DAILY AND SEASONAL MOVEMENT OF BROWN PELICANS IN THE BAHÍA GRANDE WETLAND COMPLEX—SUPPLEMENTARY MATERIAL TO R1

by

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DISCLAIMER

This research was performed in cooperation with the Texas Department of Transportation (TxDOT) and the Federal Highway Administration (FHWA). The contents of this report reflect the views of the authors, who are responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official view or policies of FHWA or TxDOT. This report does not constitute a standard, specification, or regulation.

This report is not intended for construction, bidding, or permit purposes. The researcher in charge of this project was Andrew Birt.

The United States Government and the State of Texas do not endorse products or manufacturers. Trade or manufacturers' names appear herein solely because they are considered essential to the object of this report.

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INTRODUCTION

This supplementary report includes three chapters that outline data important to the interpretation of the main project report, but that are too large to include in that report as appendices. The three chapters are:

- A complete history of Brown Pelican Mortality on SH 48 with graphical summaries of associated weather conditions.

- A graphical summary of Brown Pelican GPS data collected by Lamb (2016) in a study titled “Ecological Drivers of Brown Pelican Movement Patterns and Reproductive Success in the Gulf of Mexico”.

- A full graphical history of all GPS movements collected from Brown Pelicans tracked during this project.

A GRAPHICAL HISTORY OF PELICAN EVENTS ON SH 48

TxDOT, with the help of local conservation volunteers, began monitoring pelican mortalities on SH 48 in December 2013. In December 2017, TTI's research team began recording downed pelicans as well as pelican mortality. The downed pelicans and pelican mortalities have been found to have a strong correlation to specific weather conditions (i.e., strong north winds) that are commonly related to cold fronts. The research team uses the term "pelican event" to describe days or periods during which inclement weather causes pelicans to crash land on SH 48.

The following section summarizes weather events associated with pelican events occurring on SH 48 between December 2013 and January 2021. Before December 2017, TxDOT only recorded pelican mortalities following cold fronts and not the number of pelicans that crashed, usually the day after the weather event; therefore, the number of crashed and killed pelicans are the same (i.e., all killed pelicans had crashed). After December 2017, TTI field researchers began on-site surveying for pelicans during the weather events and provided counts on the number of crashed pelicans that survived as well as mortalities.

DESCRIPTION OF WEATHER RELATED TO PELICAN EVENTS

A total of 51 pelican events are recorded. These were identified by finding the days, or consecutive days, when pelican mortality events occurred and plotting the available NOAA and project weather station weather data before, during, and after the pelican mortality events. TTI researchers then qualitatively reviewed the weather information to identify and describe the associated weather event where possible.

The following figures provide temperature, wind speed, wind direction, precipitation, water level data, and the number of pelicans that crashed and/or were killed on SH 48 during each weather event. The location of the number of downed (crashed) pelicans and mortalities (killed) pelicans in each figure indicates which day the pelican event was observed or recorded. The legends indicate the weather source for each data set. NOAA weather stations in Brownsville and Port Isabel are shown as well as the on-site project weather station located adjacent to Carl Gayman bridge and canal, which was set up specifically for this project. The project weather station has two anemometers: an upper anemometer (SH 48 Upper) and a lower anemometer (SH 48 Lower) to provide local wind speed at the different elevations over SH 48. Charts for weather prior to October 2017 will not include the project weather station data.

A brief qualitative summary of interpreted weather for several weather parameters for each pelican event follows each chart. The summary includes the interpreted date and time of the weather event, the approximate change in wind and direction over a specific time, the approximate duration of the weather event, and the total number of downed (crashed) pelicans and mortalities (killed) pelicans for each weather event. For all charts, the number of downed pelicans includes the count of mortalities.

December 8, 2013 – 4 Pelican Mortalities

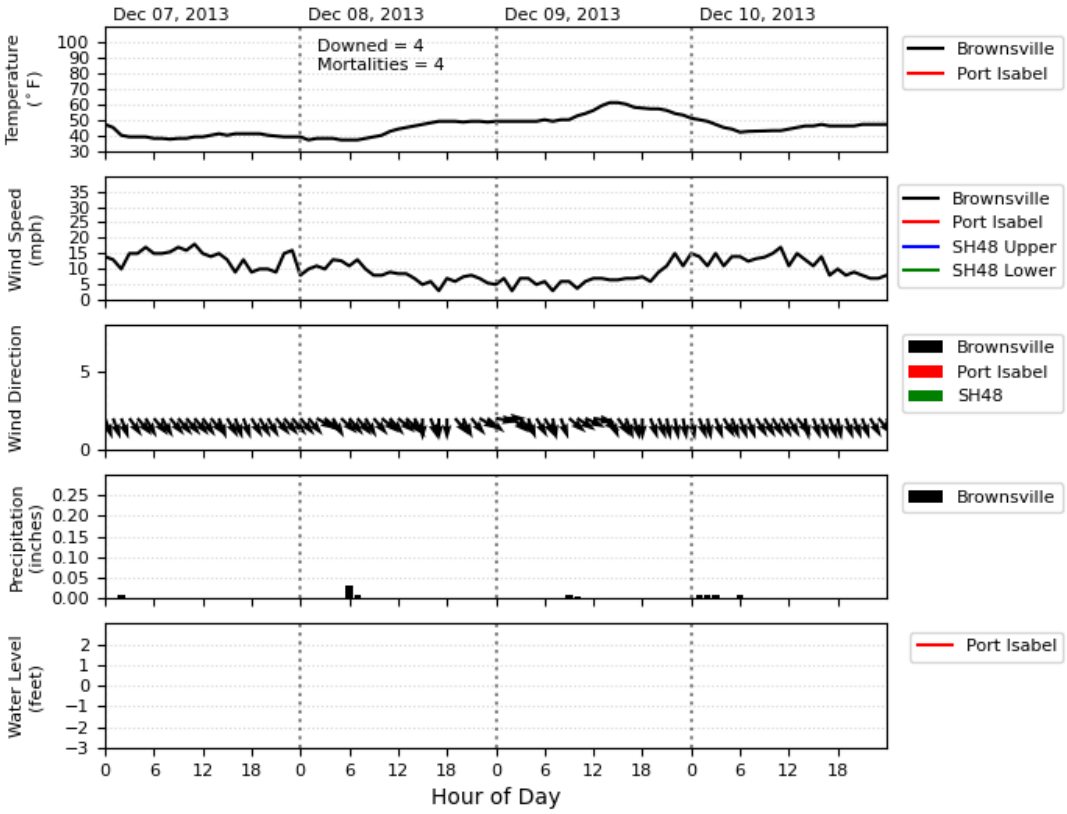

Figure 1. Weather parameters measured on December 7 through December 10, 2013.

Date of mortality event:	December 08, 2013
Date of cold front:	December 05, 2013
Approximate time of cold front:	2200
Change in temperature:	approximately down 30°F in 6 hours
Change in wind speed:	approximately up 20 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 4+ days
Count of downed pelicans / mortalities:	4* / 4

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

February 11, 2014 – 15 Pelican Mortalities

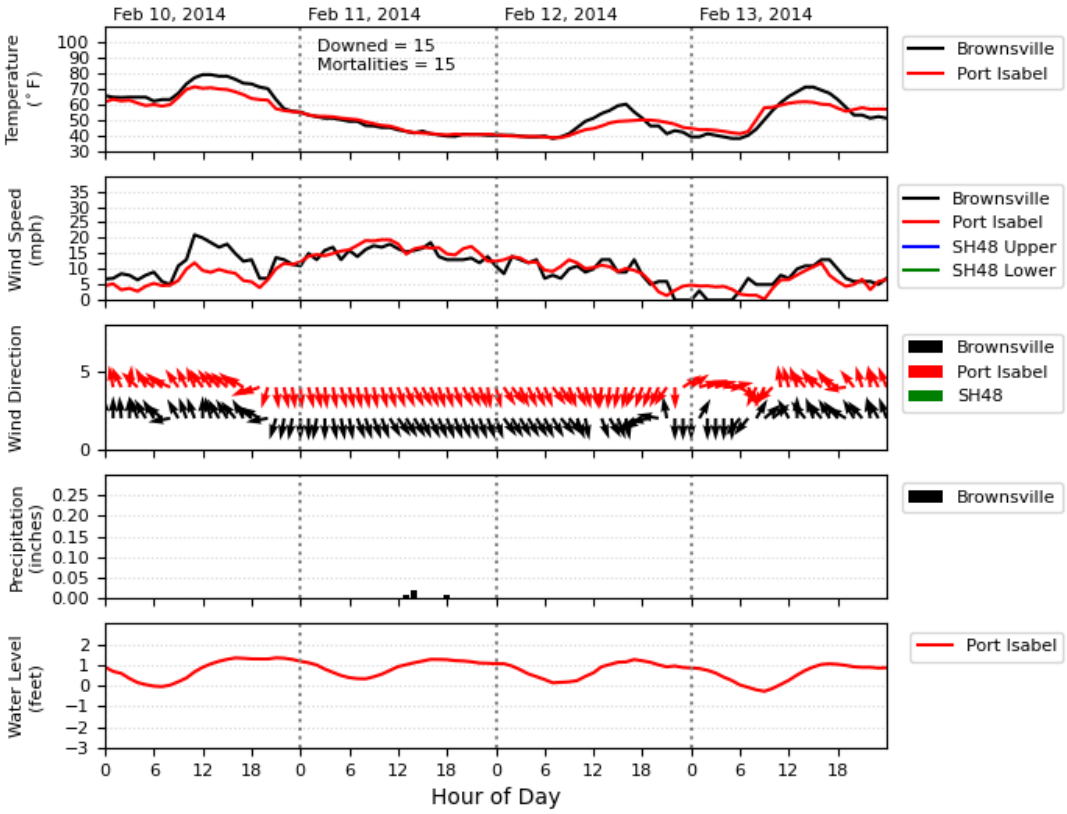

Figure 2. Weather parameters measured on February 10 through February 13, 2014.

Date of mortality event:	February 11, 2014
Date of cold front:	February 10, 2014
Approximate time of cold front:	1800
Change in temperature:	approximately down 35°F in 24 hours
Change in wind speed:	approximately up 10 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	15* / 15

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

November 13, 2014 – 18 Pelican Mortalities

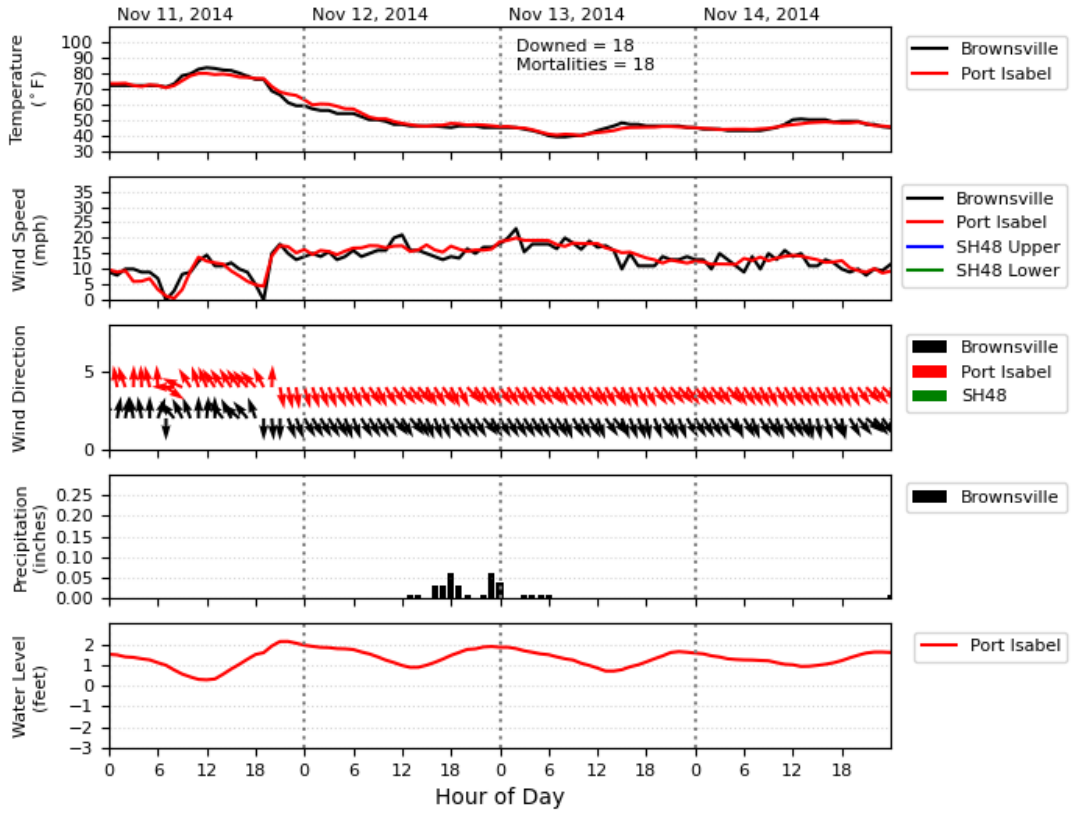

Figure 3. Weather parameters measured on November 11 through November 14, 2014.

Date of mortality event:	November 13, 2014
Date of cold front:	November 11, 2014
Approximate time of cold front:	1800
Change in temperature:	approximately down 40°F in 32 hours
Change in wind speed:	approximately up 15 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 4 days
Count of downed pelicans / mortalities:	18* / 18

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

December 28, 2014 – 5 Pelican Mortalities

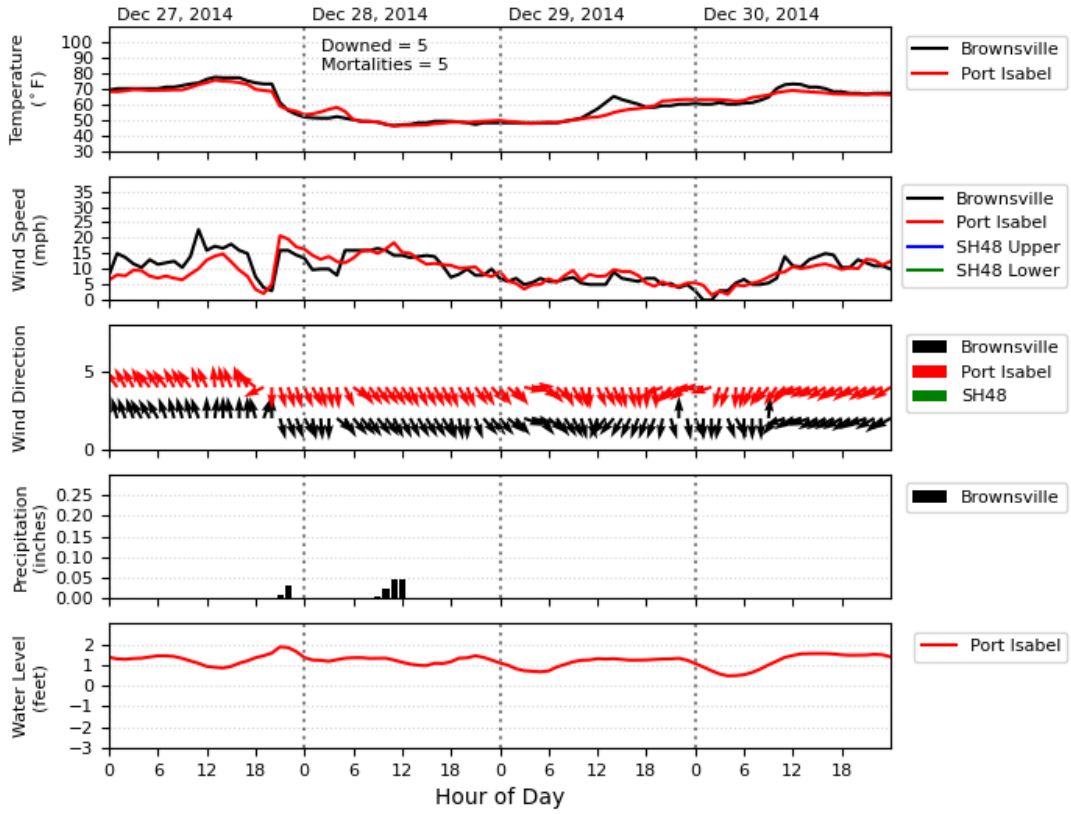

Figure 4. Weather parameters measured on December 27 through December 30, 2014.

Date of mortality event:	December 28, 2014
Date of cold front:	December 27, 2014
Approximate time of cold front:	1800
Change in temperature:	approximately down 25°F in 4 hours
Change in wind speed:	approximately up 15 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 1 to 2 days
Count of downed pelicans / mortalities:	5* / 5

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

January 12 and 13, 2015 – 8 Pelican Mortalities

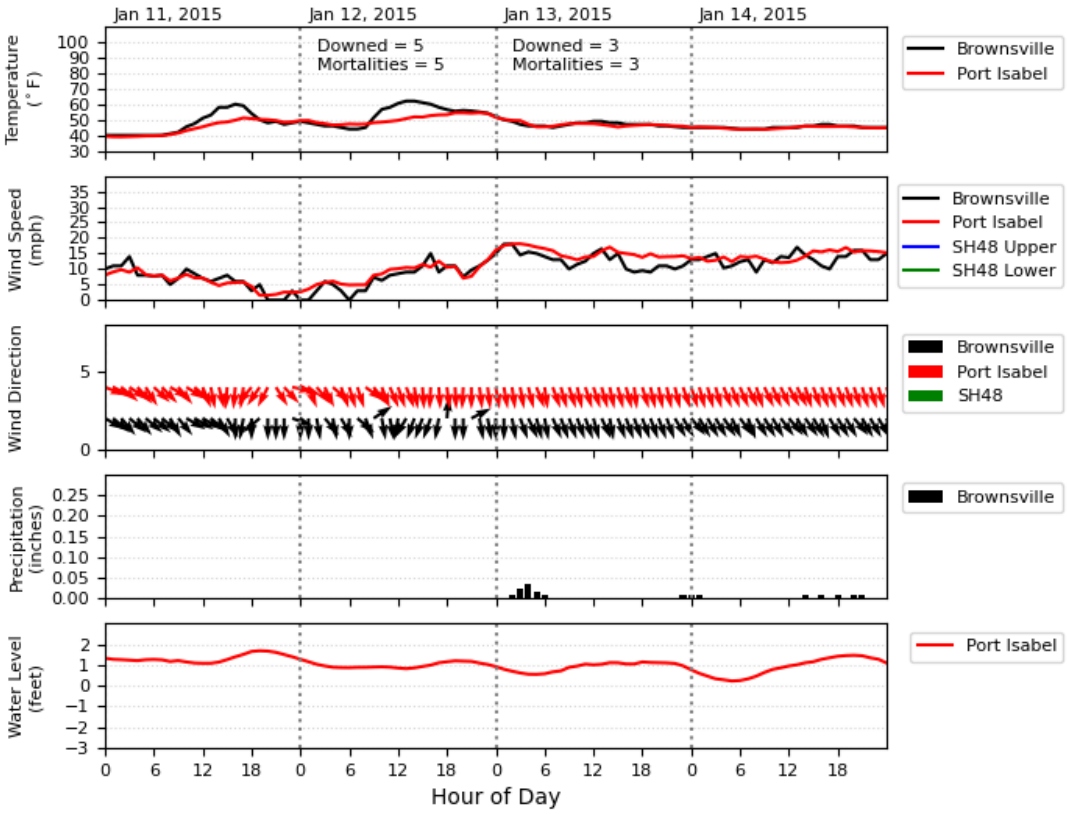

Figure 5. Weather parameters measured on January 11 through January 14, 2015.

Date of mortality event:	January 12, 2015 and January 13, 2015
Date of cold front:	January 12, 2015
Approximate time of cold front:	between 0600 and 2000
Change in temperature:	approximately down 15°F in 12 hours
Change in wind speed:	approximately up 10 mph
Change in wind direction:	none (cold front occurred more than a day before mortalities)
Duration of cold front:	approximately 3 days
Count of downed pelicans / mortalities:	8* / 8

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

January 23, 2015 – 5 Pelican Mortalities

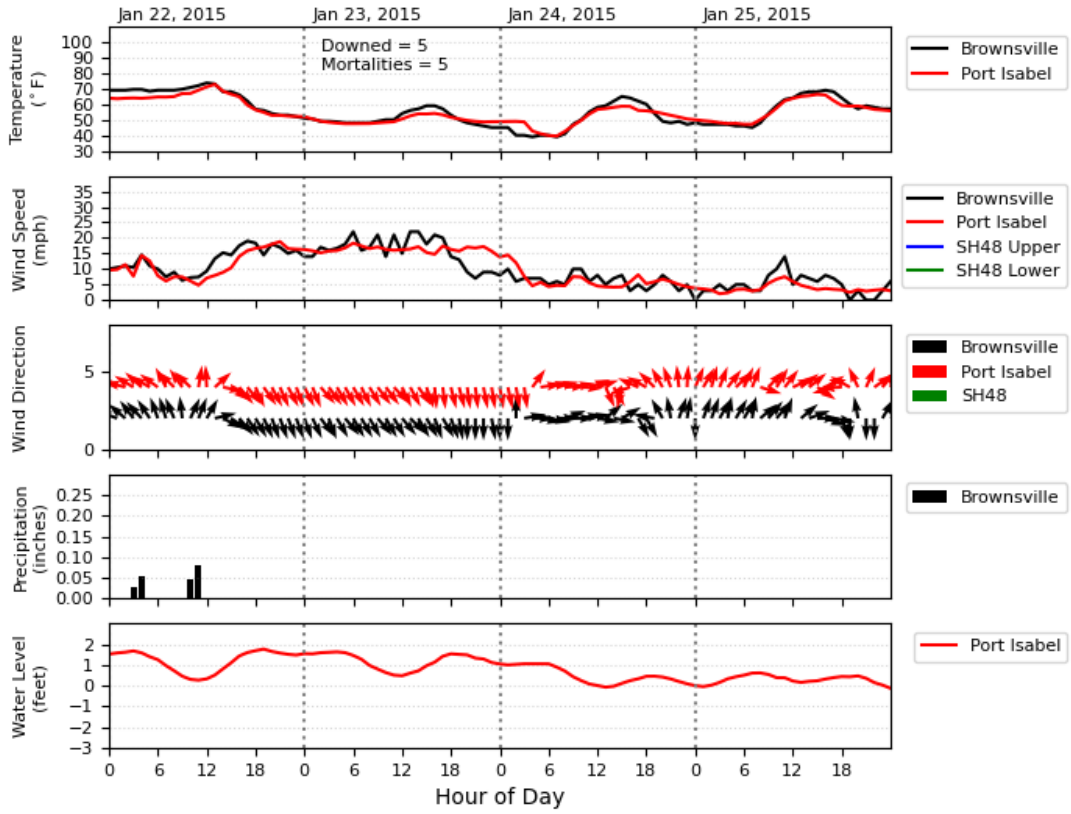

Figure 6. Weather parameters measured on January 22 through January 25, 2015.

Date of mortality event:	January 23, 2015
Date of cold front:	January 22, 2015
Approximate time of cold front:	1200
Change in temperature:	approximately down 25°F in 12 hours
Change in wind speed:	approximately up 10 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 1 day
Count of downed pelicans / mortalities:	5* / 5

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

February 17, 2015 – 2 Pelican Mortalities

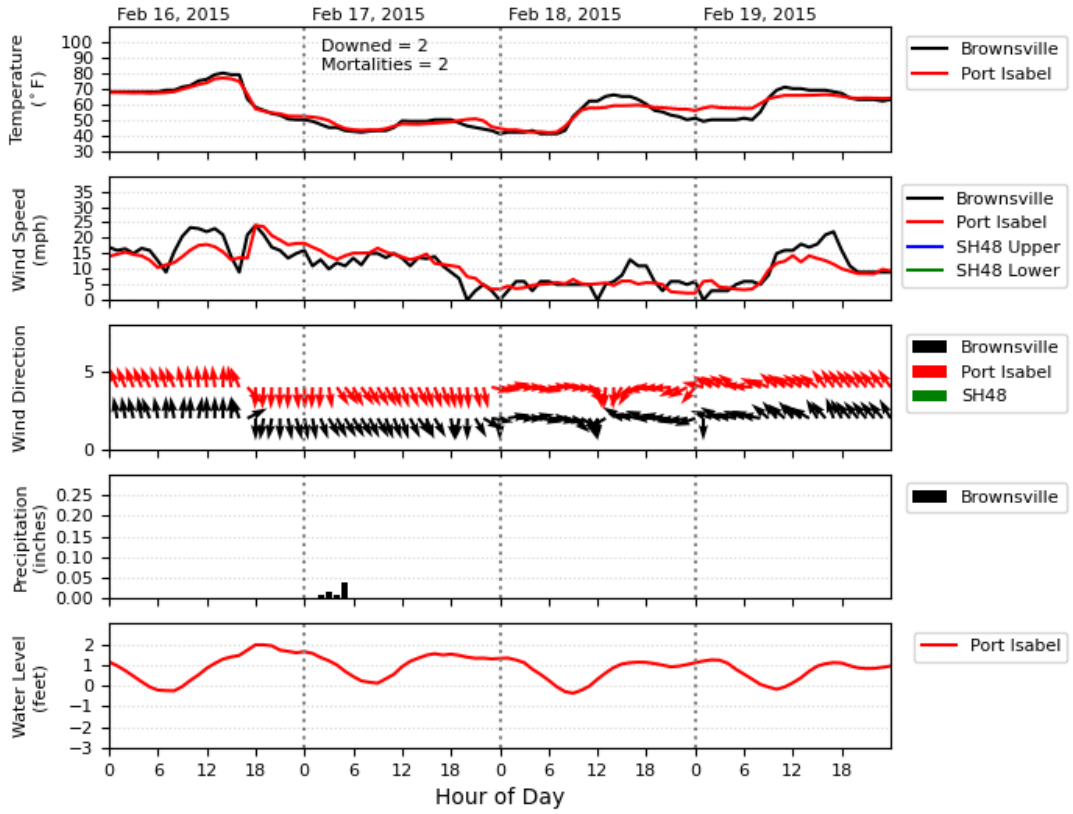

Figure 7. Weather parameters measured on February 16 through February 19, 2015.

Date of mortality event:	February 17, 2015
Date of cold front:	February 16, 2015
Approximate time of cold front:	1800
Change in temperature:	approximately down 35°F in 12 hours
Change in wind speed:	approximately up 10 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 1 day
Count of downed pelicans / mortalities:	2* / 2

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

February 23, 2015 – 1 Pelican Mortality

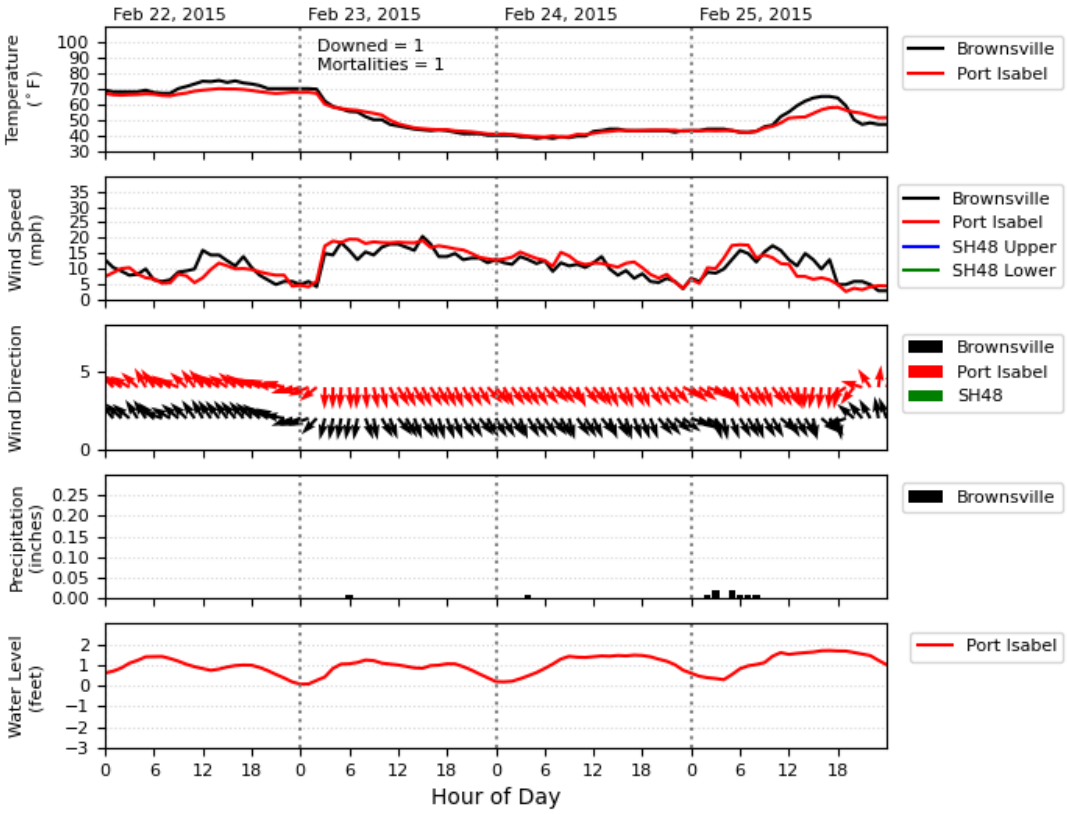

Figure 8. Weather parameters measured on February 22 through February 25, 2015.

Date of mortality event:	February 23, 2015
Date of cold front:	February 23, 2015
Approximate time of cold front:	0200
Change in temperature:	approximately down 30°F in 20 hours
Change in wind speed:	approximately up 15 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	1* / 1

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

February 26, 2015 – 1 Pelican Mortality

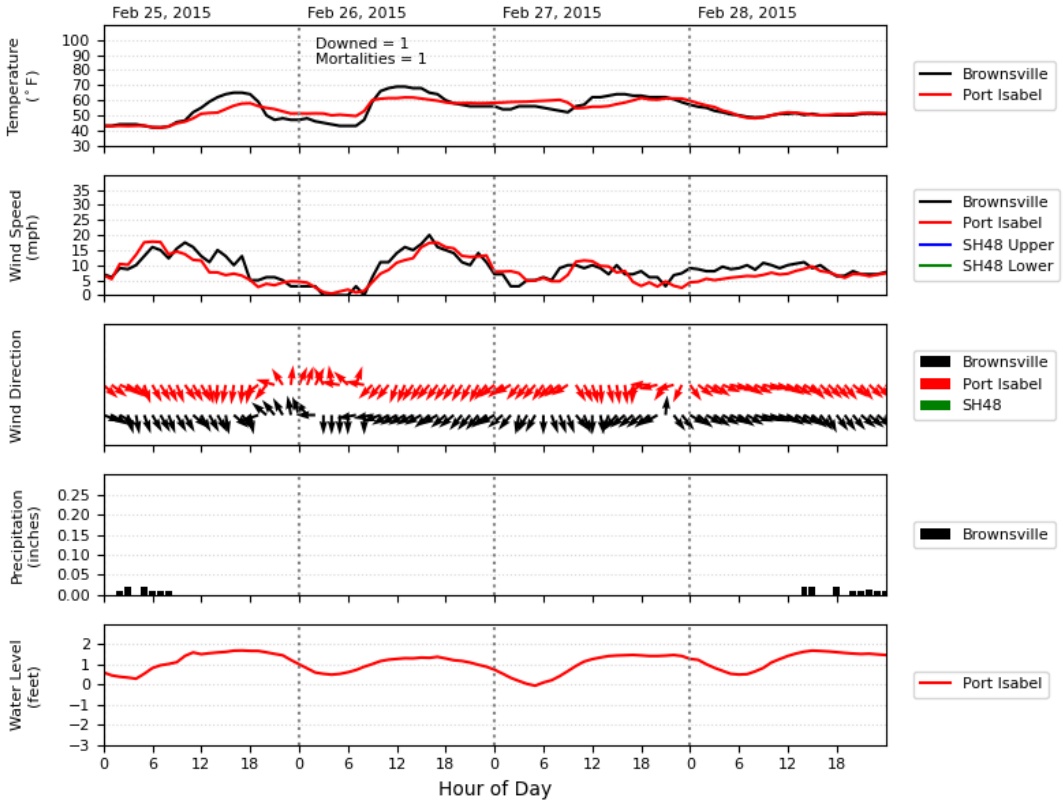

Figure 9. Weather parameters measured on February 22 through February 25, 2015.

Date of mortality event:	February 26, 2015
Date of cold front:	February 26, 2015
Approximate time of cold front:	0800
Change in temperature:	approximately up 15°F in 3 hours
Change in wind speed:	approximately up 15 mph in 9 hours
Change in wind direction:	approximately 150 degrees
Duration of cold front:	approximately 1 day
Count of downed pelicans / mortalities:	1* / 1

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

March 5, 2015 – 13 Pelican Mortalities

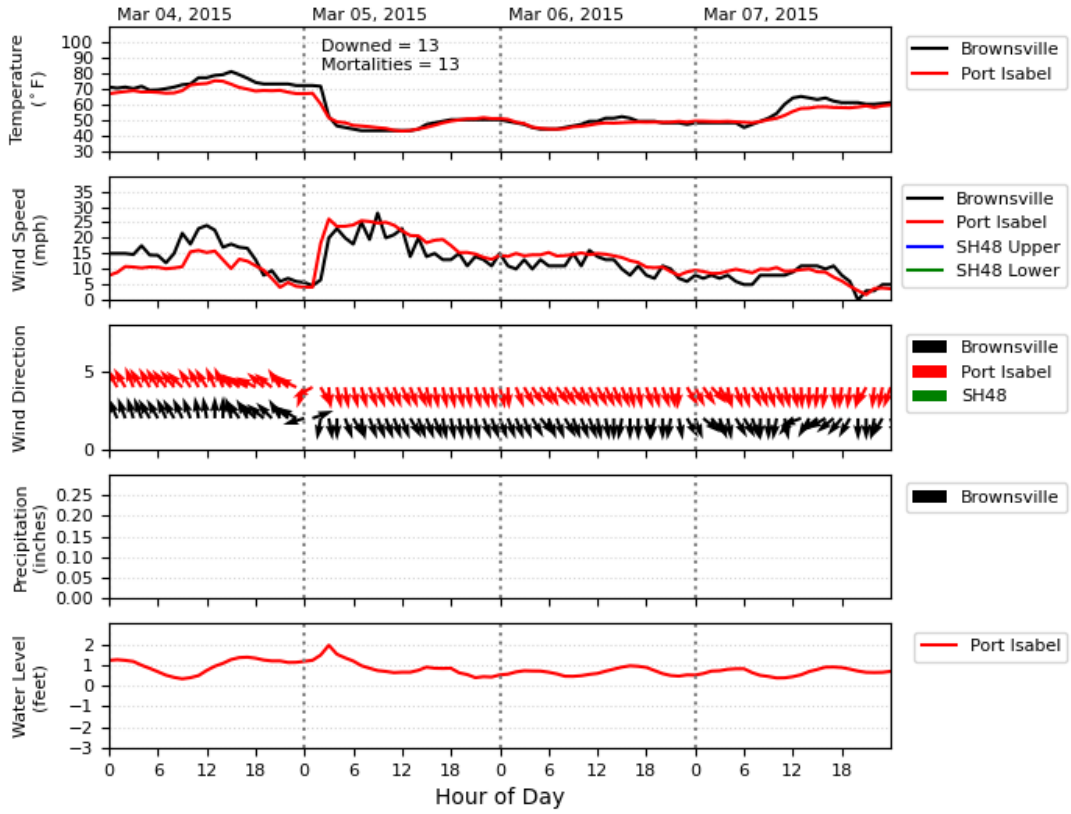

Figure 10. Weather parameters measured on March 04 through March 07, 2015.

Date of mortality event:	March 05, 2015
Date of cold front:	March 05, 2015
Approximate time of cold front:	0200
Change in temperature:	approximately down 30°F in 2 hours
Change in wind speed:	approximately up 20 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	13* / 13

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

May 12, 2015 – 1 Pelican Mortality

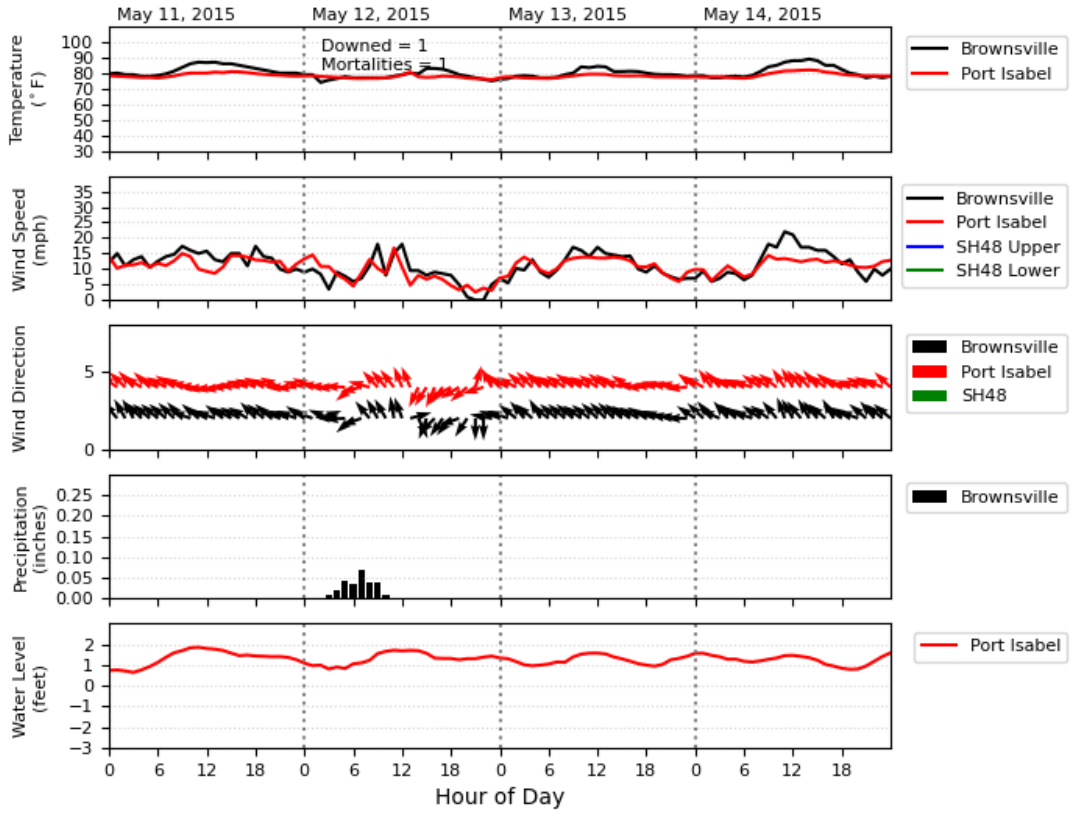

Figure 11. Weather parameters measured on May 11 through May 14, 2015.

Date of mortality event:	May 12, 2015
Date of cold front:	No cold front, precipitation with disturbed wind with brief north wind
Approximate time of cold front:	No cold front, disturbed wind 0400-2200
Change in temperature:	approximately 0°F
Change in wind speed:	approximately down 5 mph
Change in wind direction:	approximately 160 degrees
Duration of cold front:	approximately 1 days
Count of downed pelicans / mortalities:	1* / 1

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

December 27, 2015 – 16 Pelican Mortalities

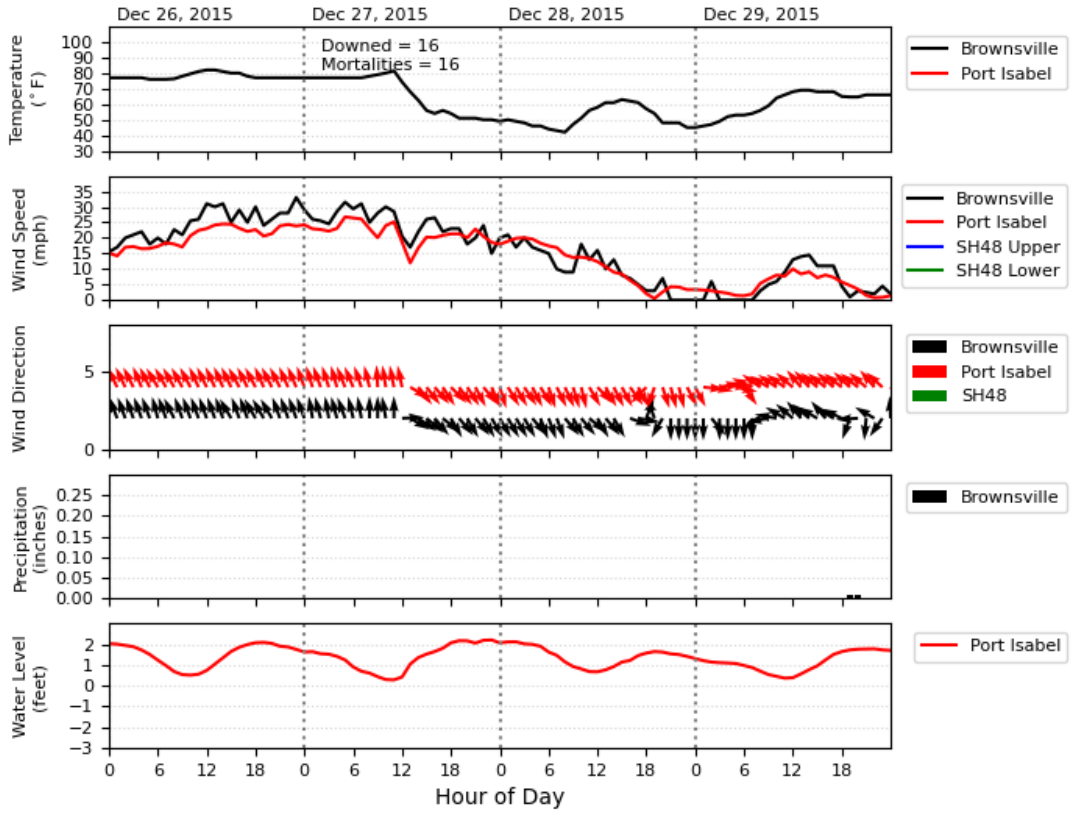

Figure 12. Weather parameters measured on December 26 through December 29, 2015

Date of mortality event:	December 27, 2015
Date of cold front:	December 27, 2015
Approximate time of cold front:	1200
Change in temperature:	approximately down 30°F in 12 hours
Change in wind speed:	down approximately 5 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 1 day
Count of downed pelicans / mortalities:	16* / 16

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

January 10, 12, and 13, 2016 – 26 Pelican Mortalities

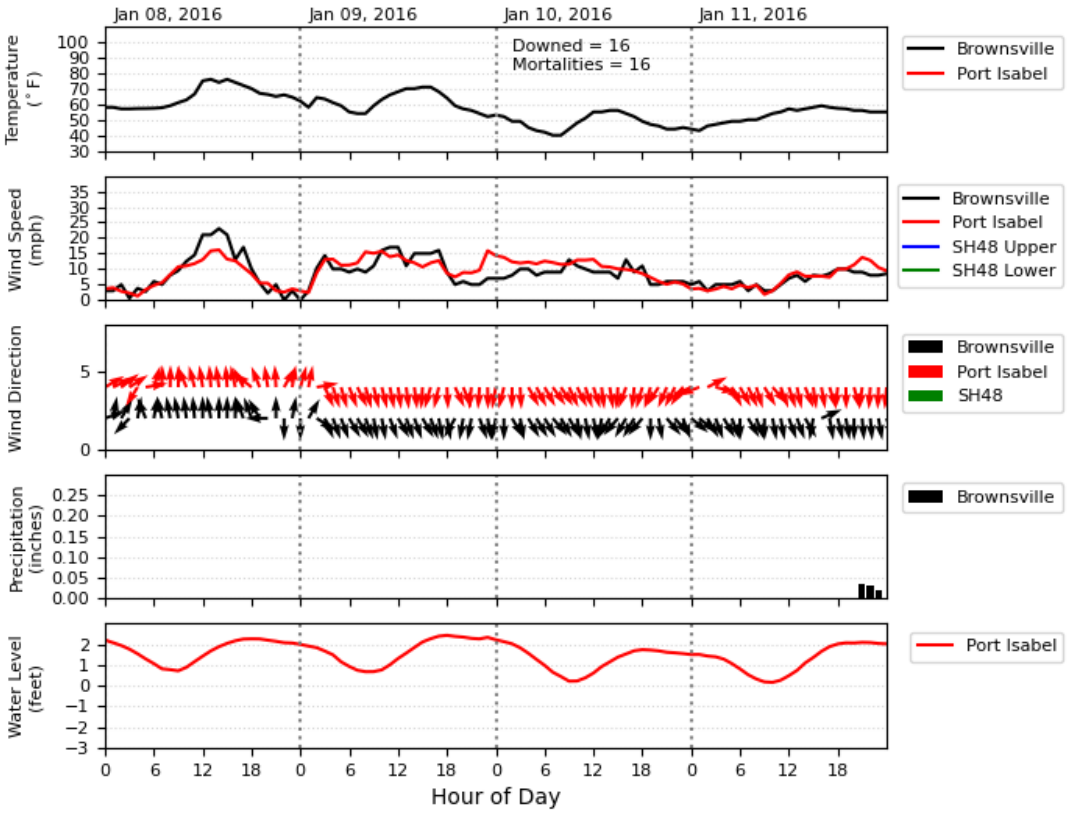

Figure 13. Weather parameters measured on January 08 through January 11, 2016 (1 of 2)

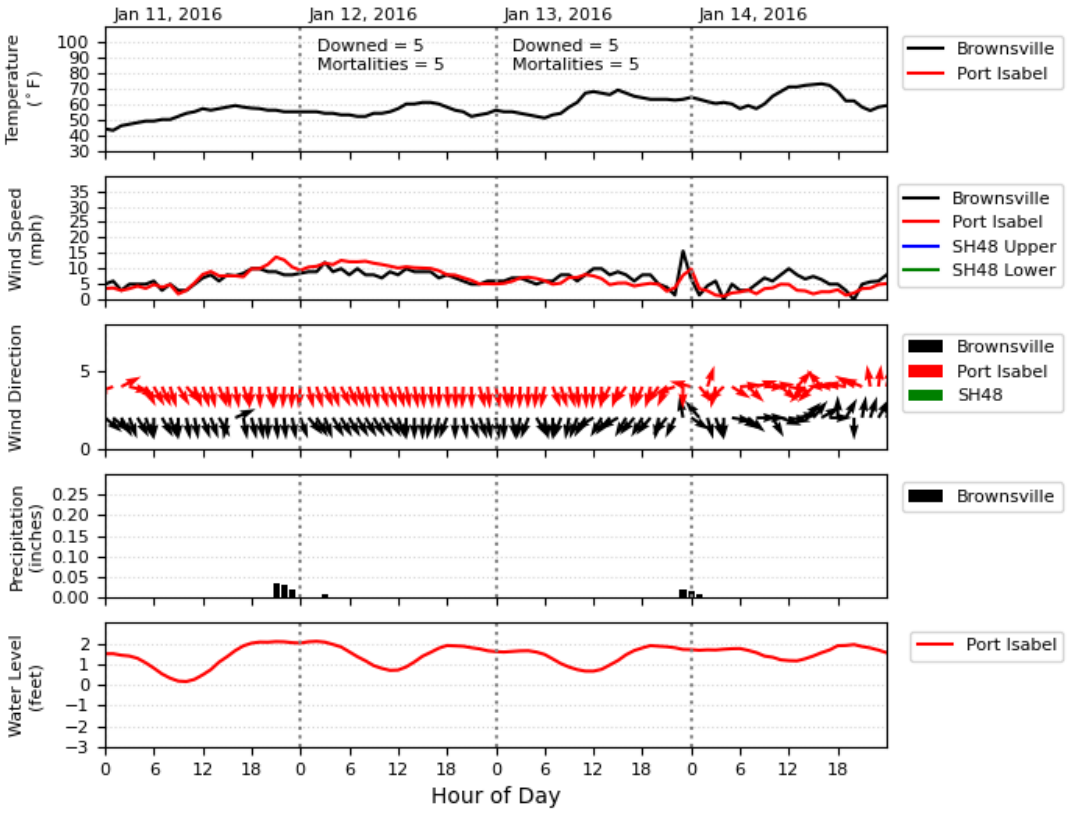

Figure 14. Weather parameters measured on January 11 through January 14, 2016 (2 of 2).

Date of mortality event:	January 10, January 12, and January 13, 2016
Date of cold front:	January 09, 2016
Approximate time of cold front:	0300
Change in temperature:	approximately down 30°F in 18 hours
Change in wind speed:	approximately up 20 mph. Wind speed decreased to about 5 mph between January 10 and January 11, 2016 and then resumed to around 10 mph.
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 5 days
Count of downed pelicans / mortalities:	26* / 26

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

January 15, 2016 – 16 Pelican Mortalities

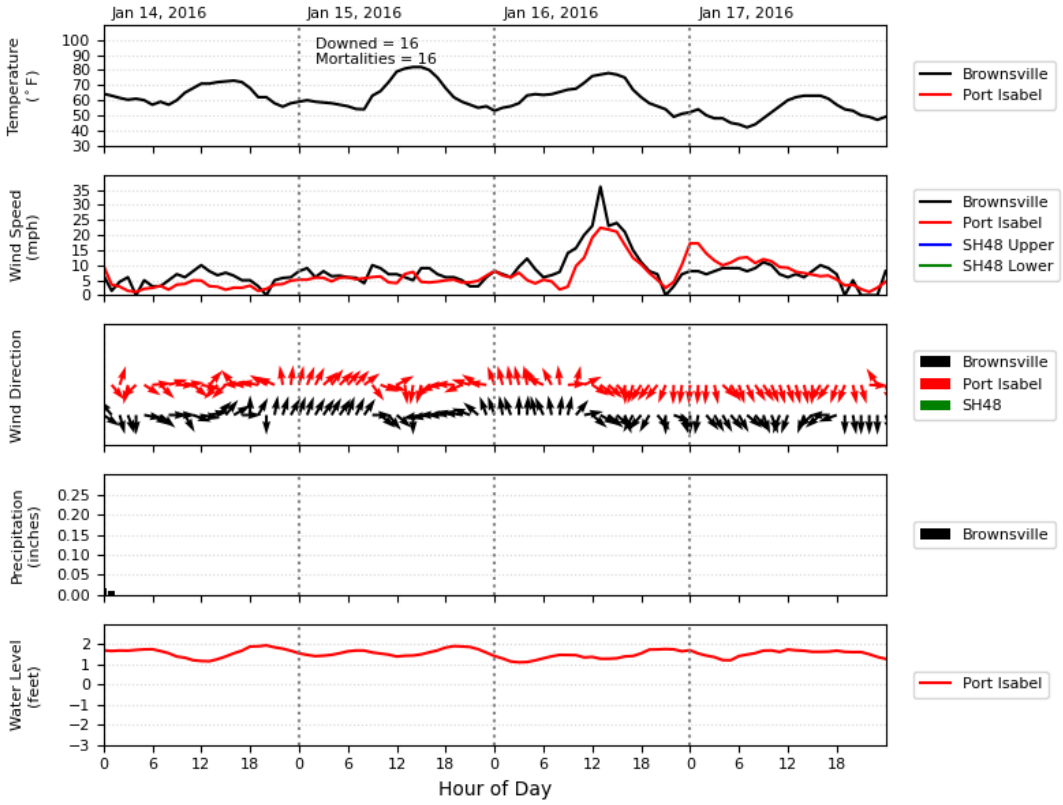

Figure 15. Weather parameters measured on January 14 through January 17, 2016.

Date of mortality event:	January 15, 2016
Date of cold front:	January 9, 2016
Approximate time of cold front:	0300
Change in temperature:	approximately down 30°F in 18 hours
Change in wind speed:	approximately up 20 mph. Wind speed decreased to about 5 mph between January 10 and January 11, 2016 and then resumed to around 10 mph.
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days, variable winds after
Count of downed pelicans / mortalities:	16* / 16

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

January 26, 2016 – 4 Pelican Mortalities

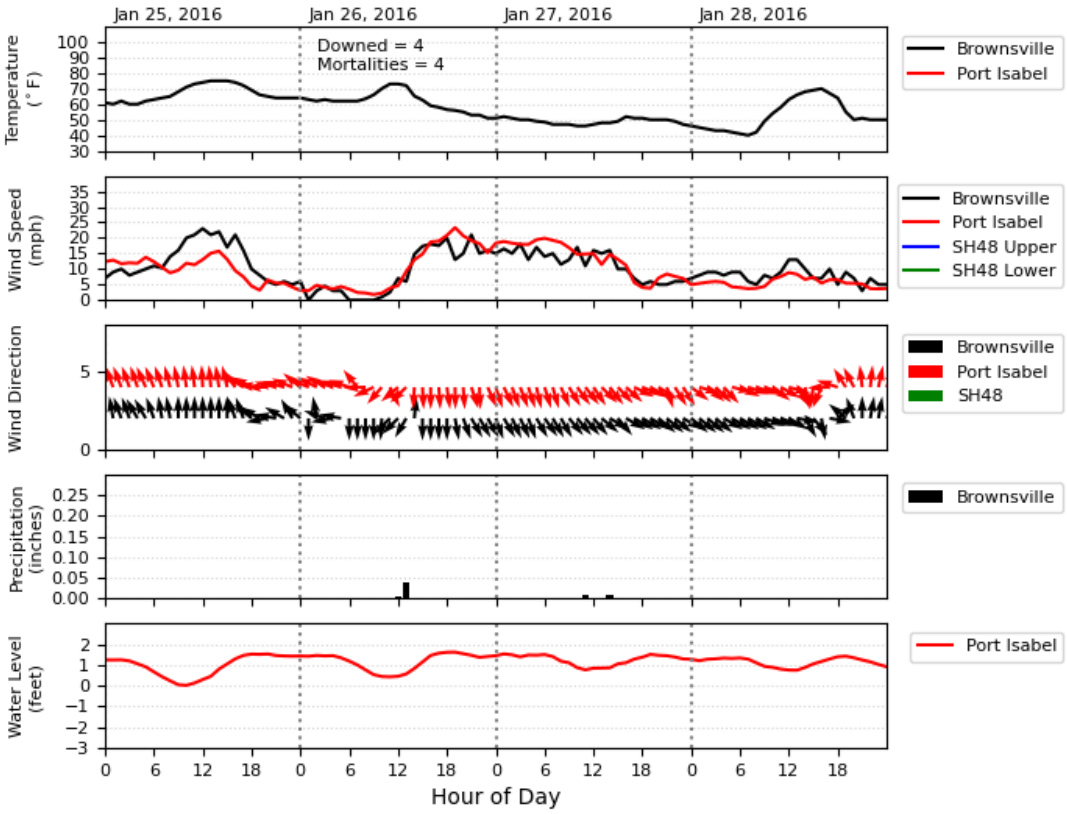

Figure 16. Weather parameters measured on January 25 through January 28, 2016.

Date of mortality event:	January 26, 2016
Date of cold front:	January 26, 2016
Approximate time of cold front:	1200
Change in temperature:	approximately down 25°F in 12 hours
Change in wind speed:	approximately up 20 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	2* / 2

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

December 9, 2016 – 80 Pelican Mortalities

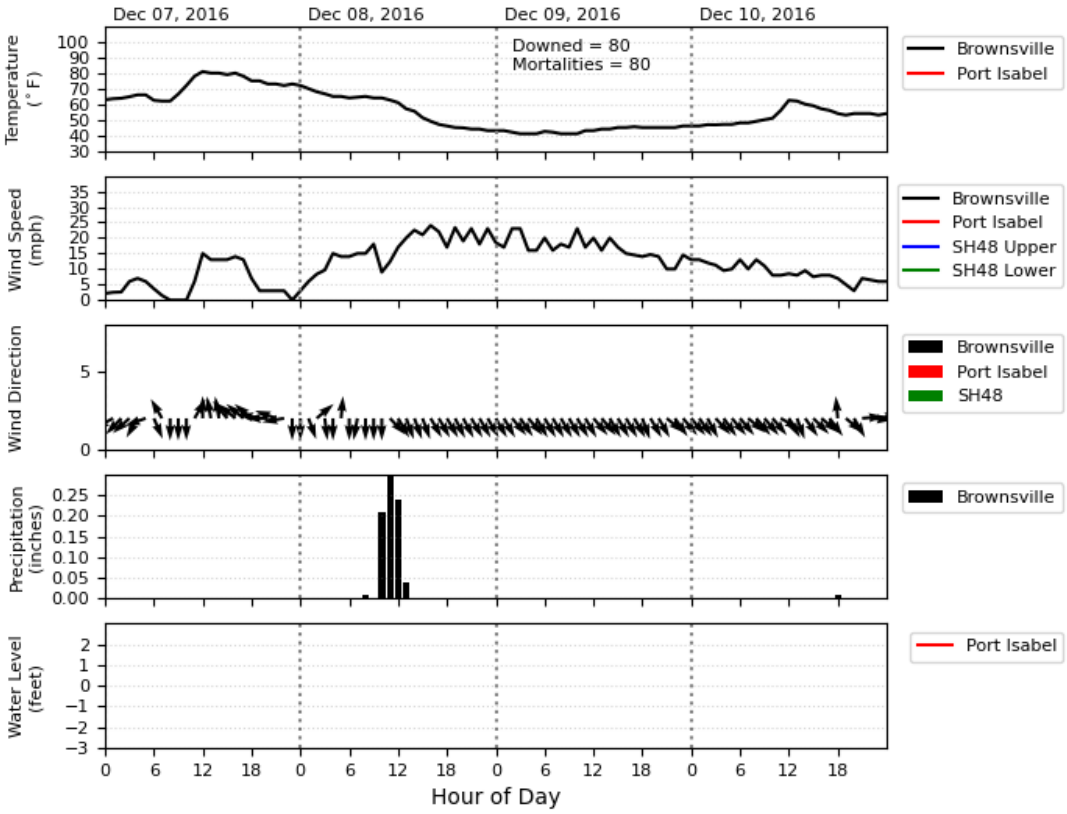

Figure 17. Weather parameters measured on December 07 through December 10, 2016.

Date of mortality event:	December 09, 2016
Date of cold front:	December 07, 2016
Approximate time of cold front:	2300
Change in temperature:	approximately down 30°F in 18 hours
Change in wind speed:	approximately up 25 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2.5 days
Count of downed pelicans / mortalities:	80* / 80

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

December 19, 2016 – 11 Pelican Mortalities

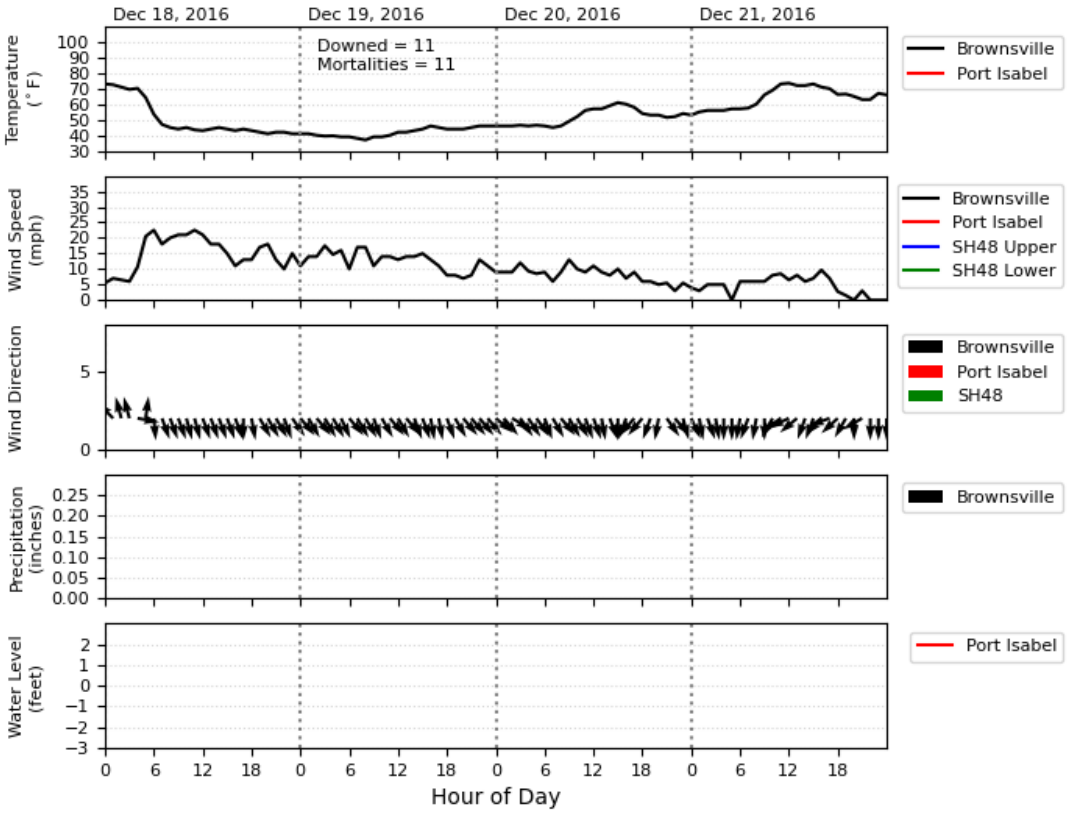

Figure 18. Weather parameters measured on December 18 through December 21, 2016.

Date of mortality event:	December 19, 2016
Date of cold front:	December 18, 2016
Approximate time of cold front:	0500
Change in temperature:	approximately down 25°F in 4 hours
Change in wind speed:	approximately up 15 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 3 days
Count of downed pelicans / mortalities:	11* / 11

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

December 26, 2016 – 5 Pelican Mortalities

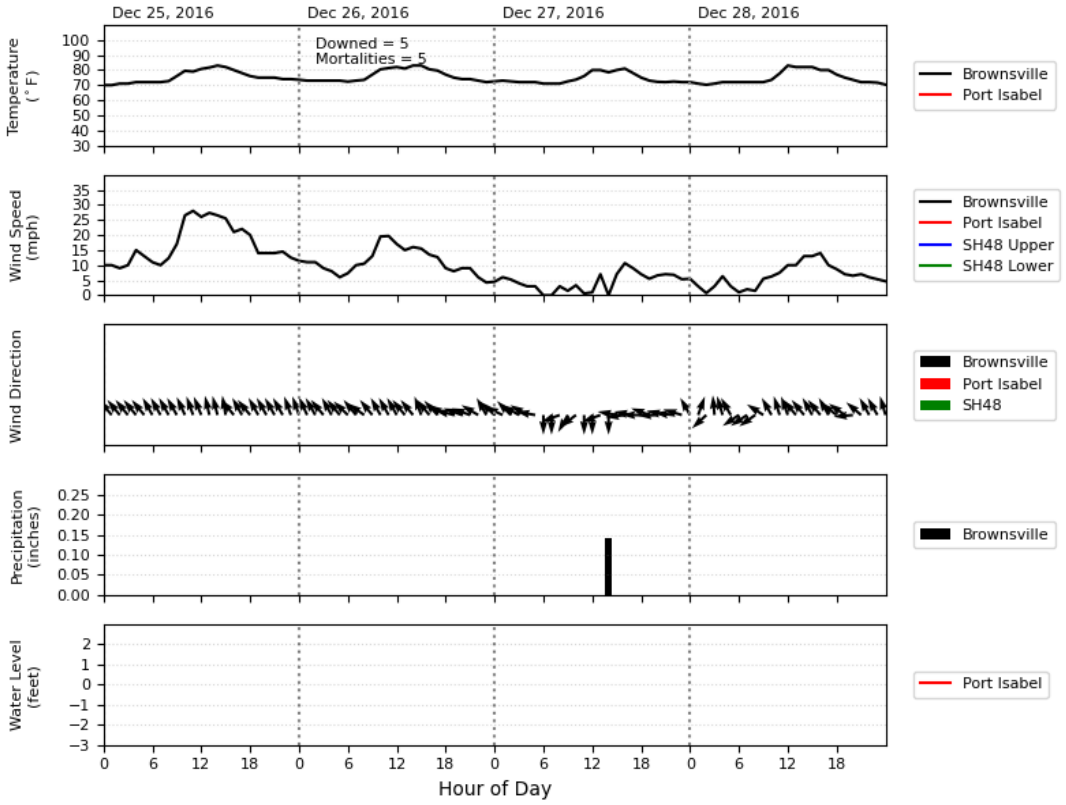

Figure 19. Weather parameters measured on December 18 through December 21, 2016.

Date of mortality event:	December 26, 2016
Date of cold front:	none
Approximate time of cold front:	NA
Change in temperature:	+/- 10°F
Change in wind speed:	approximately up 15 mph
Change in wind direction:	none. Wind from SSE
Duration of cold front:	None
Count of downed pelicans / mortalities:	5* / 5

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

January 6, 2017 – 24 Pelican Mortalities

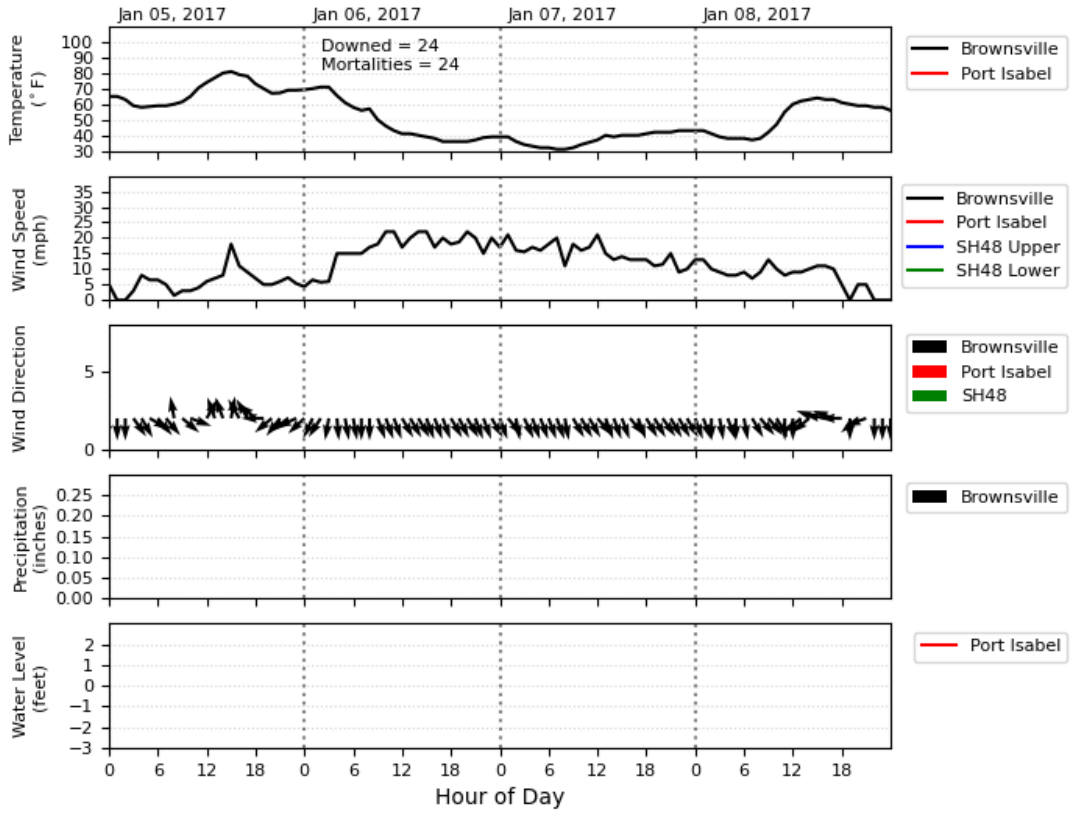

Figure 20. Weather parameters measured on January 05 through January 08, 2017.

Date of mortality event:	January 06, 2017
Date of cold front:	January 06, 2017
Approximate time of cold front:	0000
Change in temperature:	approximately down 35°F in 14 hours
Change in wind speed:	approximately up 15 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	24* / 24

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

January 9, 2017 – 1 Pelican Mortality

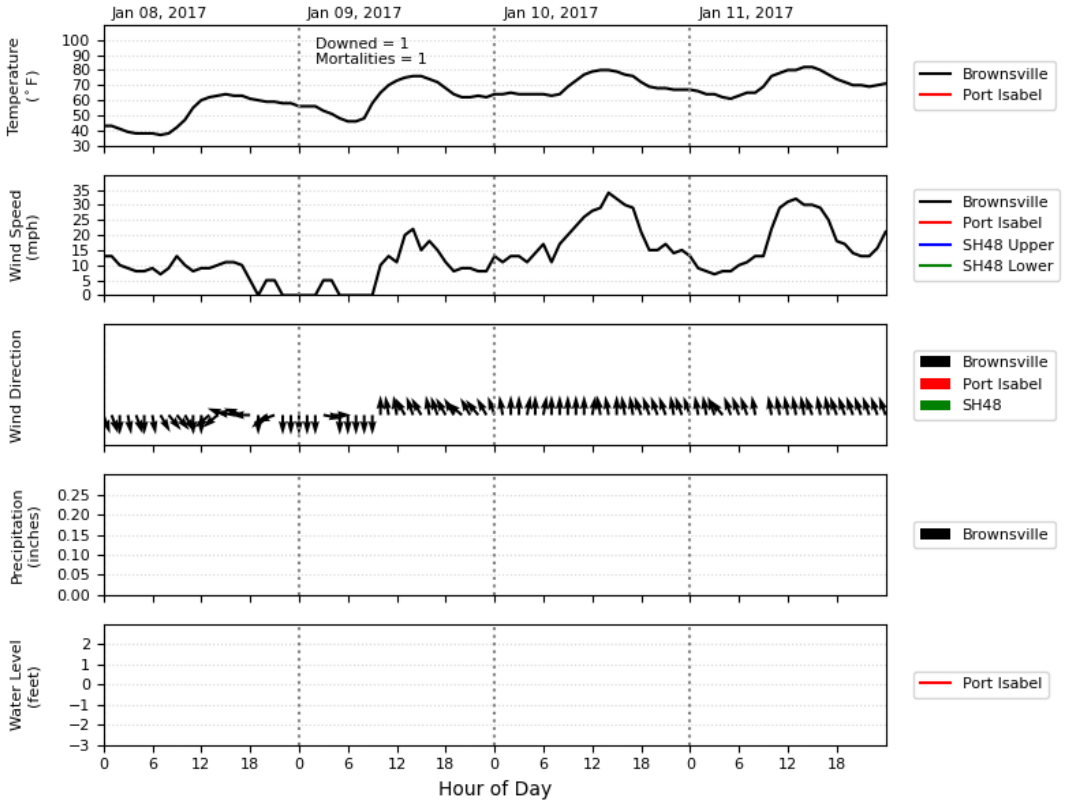

Figure 21. Weather parameters measured on January 05 through January 08, 2017.

Date of mortality event:	January 09, 2017
Date of cold front:	not applicable
Approximate time of cold front:	not applicable
Change in temperature:	approximately up 15°F in 9 hours
Change in wind speed:	approximately up 15 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	not applicable
Count of downed pelicans / mortalities:	1* / 1

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

January 22, 2017 – 1 Pelican Mortality

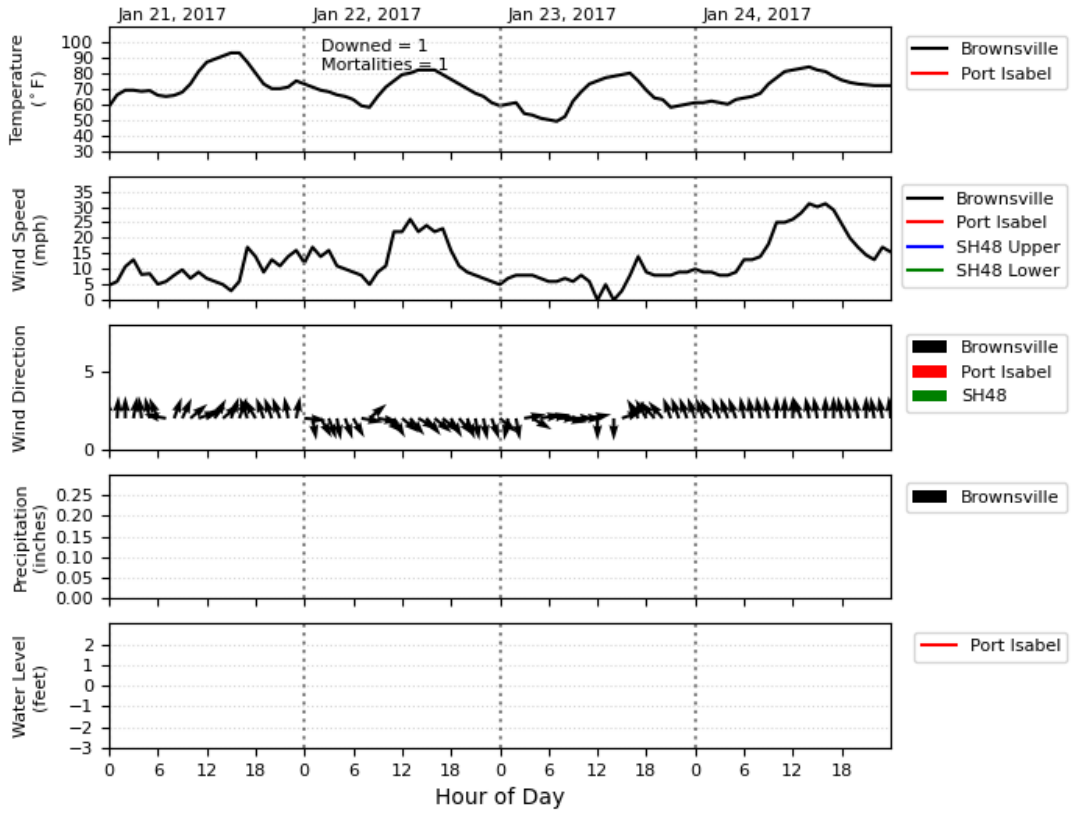

Figure 22. Weather parameters measured on January 21 through January 24, 2017.

Date of mortality event:	January 22, 2017
Date of cold front:	No cold front
Approximate time of cold front:	0000
Change in temperature:	approximately down 10°F in 6 hours, then up 20 mph over 4 hours
Change in wind speed:	approximately up 20 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 1 days
Count of downed pelicans / mortalities:	1* / 1

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

September 1, 2017 – 1 Pelican Mortality

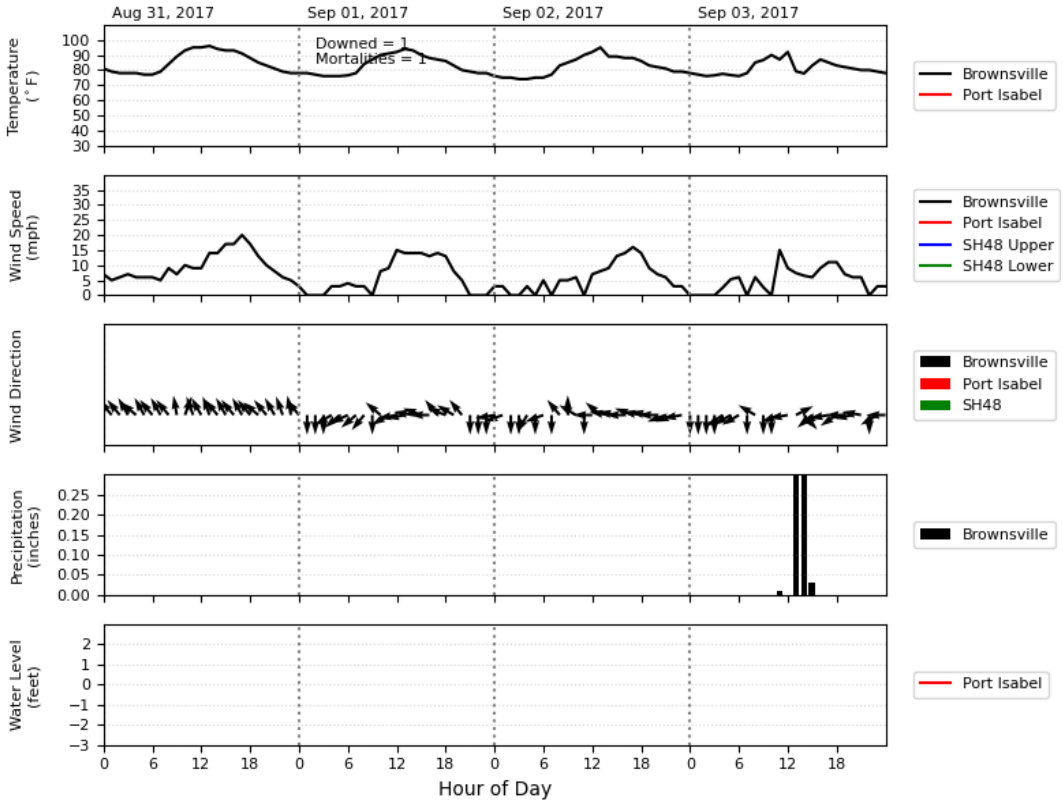

Figure 23. Weather parameters measured on August 11 through September 03, 2017.

Date of mortality event:	September 1, 2017
Date of cold front:	No cold front
Approximate time of cold front:	0000
Change in temperature:	up approximately 15°F in 6 hours
Change in wind speed:	approximately up 15 mph
Change in wind direction:	approximately 180 degrees, briefly
Duration of cold front:	not applicable
Count of downed pelicans / mortalities:	1* / 1

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

October 20, 2017 – 1 Pelican Mortality

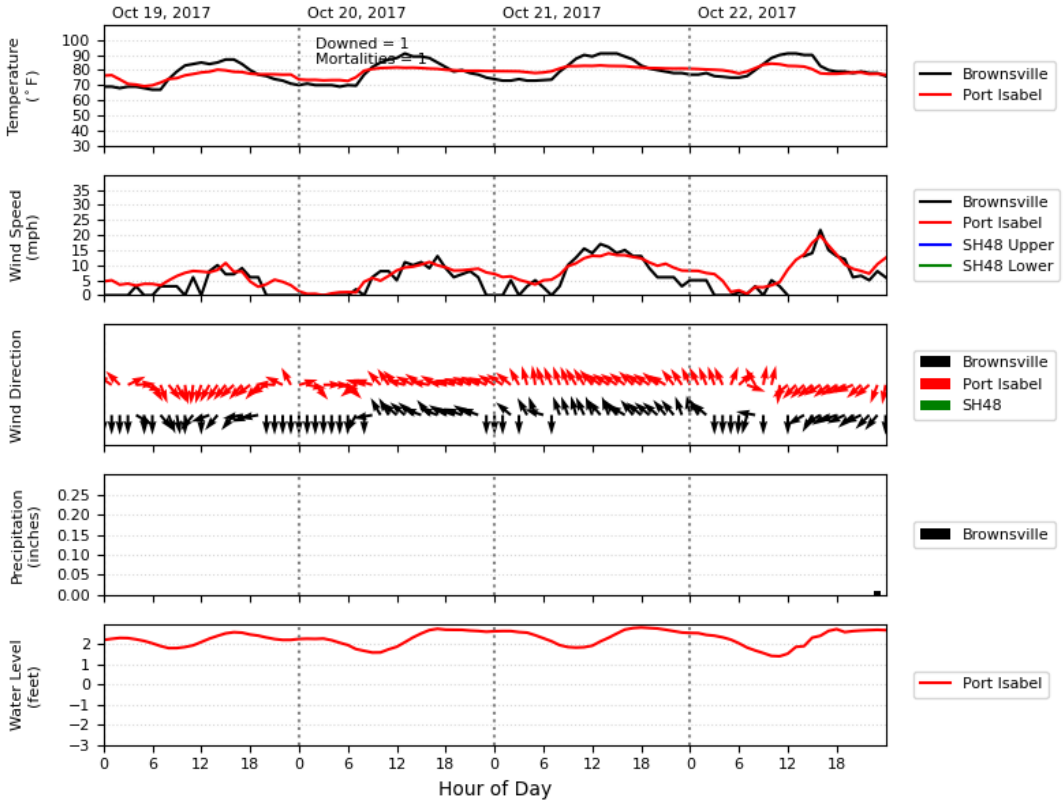

Figure 24. Weather parameters measured on October 20 through October 22, 2017.

Date of mortality event:	October 19, 2017
Date of cold front:	No cold front
Approximate time of cold front:	2000
Change in temperature:	approximately down 5°F after 12 hours
Change in wind speed:	approximately up 10 mph
Change in wind direction:	variable
Duration of cold front:	not applicable
Count of downed pelicans / mortalities:	1* / 1

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

November 24, 2017 – 1 Pelican Mortality

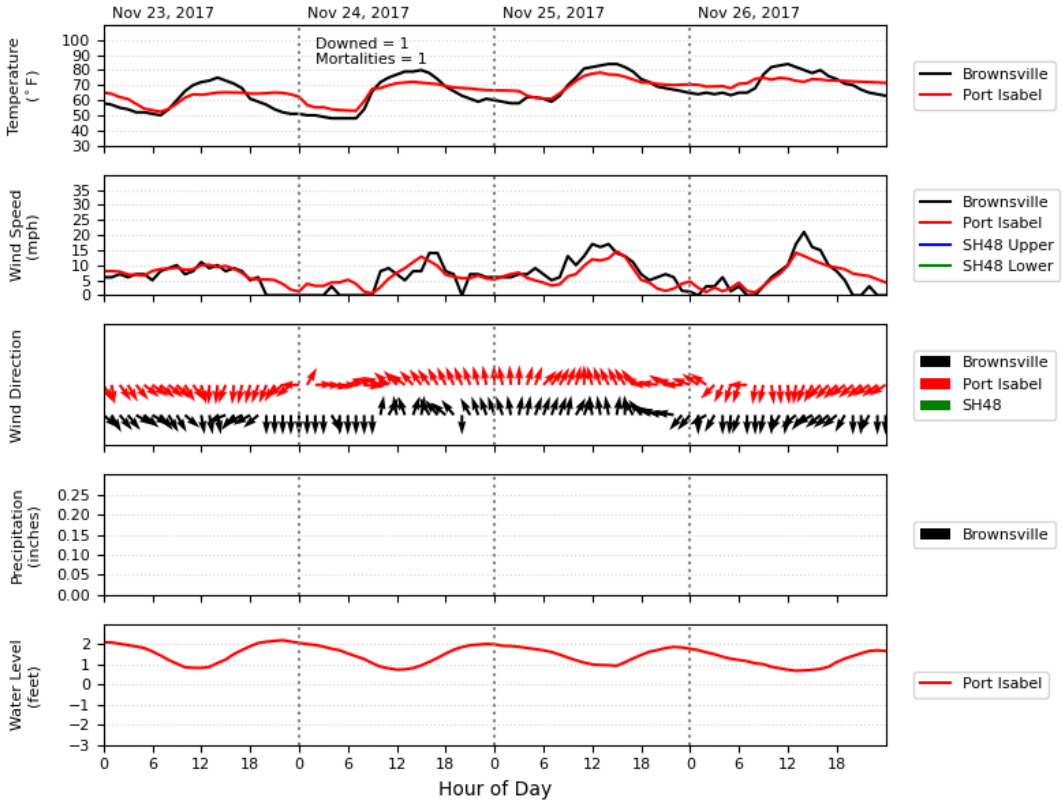

Figure 25. Weather parameters measured on November 23 through November 26, 2017.

Date of mortality event:	November 24, 2017
Date of cold front:	November 23, 2017. No wind associated with cold front.
Approximate time of cold front:	1900
Change in temperature:	down approximately 10°F in 12 hours
Change in wind speed:	down approximately 10 mph
Change in wind direction:	variable to steady north (weather stations disagree)
Duration of cold front:	½ day
Count of downed pelicans / mortalities:	1* / 1

*Downed pelicans were not recorded before December 2017. This number represents a minimum number of downed pelicans.

December 6, 7, and 8, 2017 – 233 Crashes and 31 Pelican Mortalities

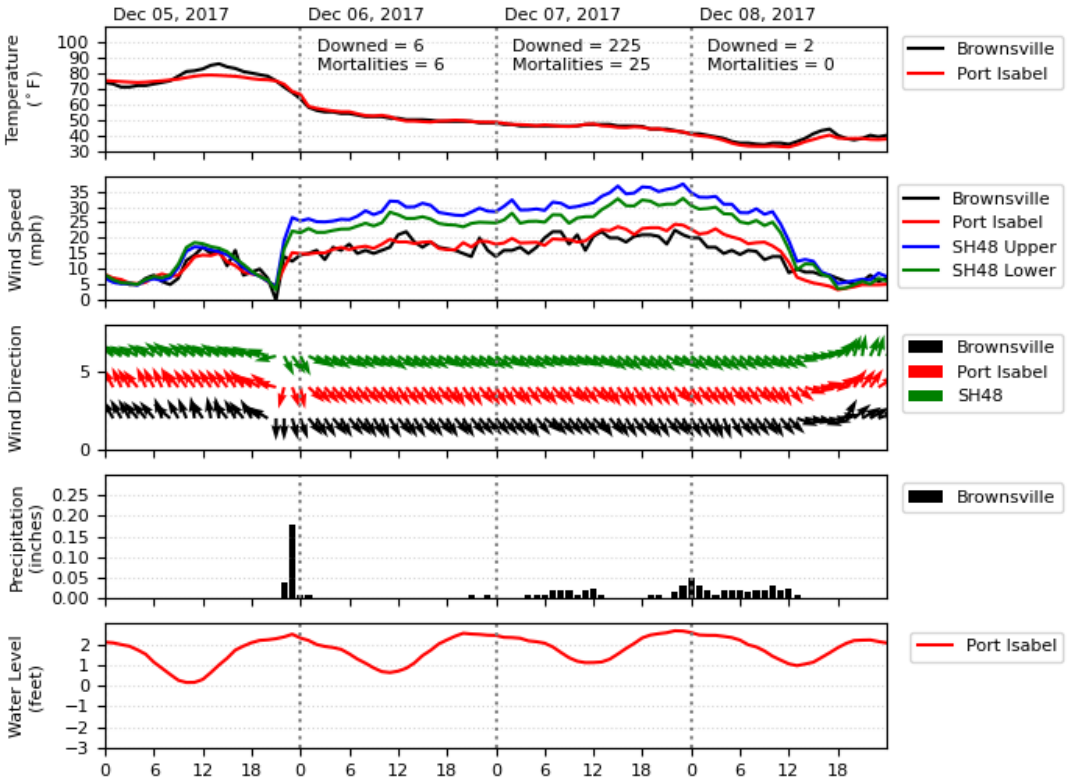

Figure 26. Weather parameters measured on December 05 through December 08, 2017.

Date of mortality event:	December 06, 2017 and December 07, 2017
Date of cold front:	December 05, 2017
Approximate time of cold front:	2100
Change in temperature:	approximately down 30°F in 12 hours
Change in wind speed:	approximately up 25 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2.5 days
Count of downed pelicans / mortalities:	233 / 31

December 15, 2017 – 1 Crash and 1 Pelican Mortality

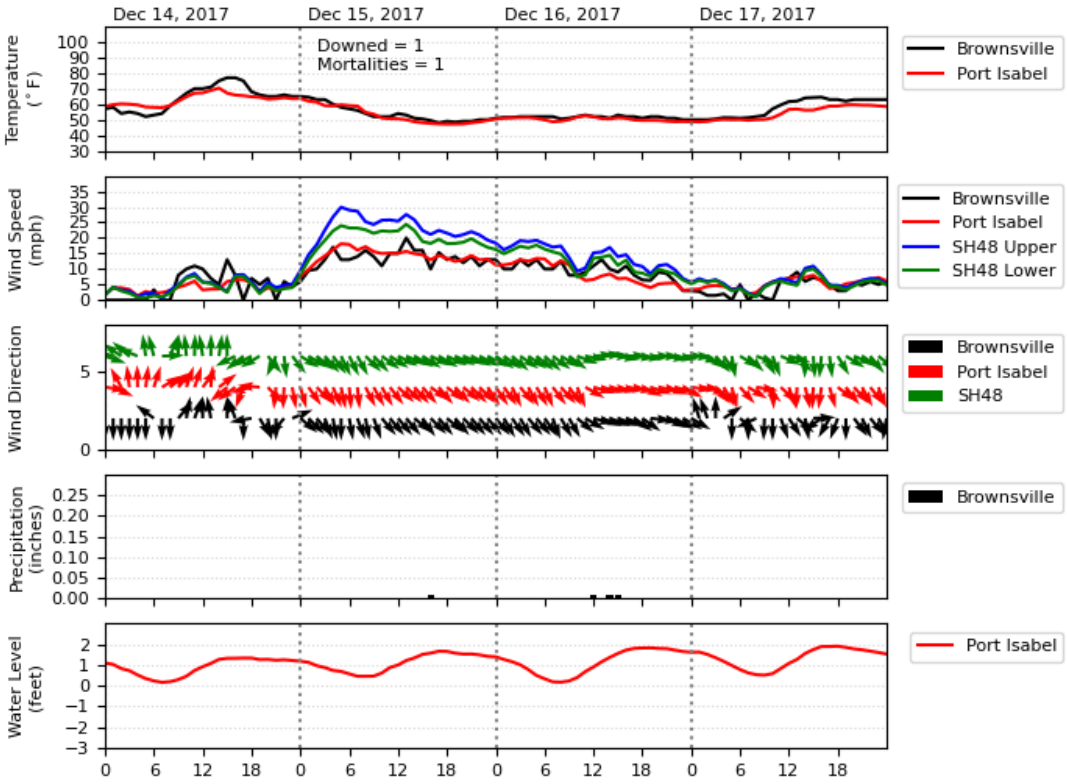

Figure 27. Weather parameters measured on December 14 through December 17, 2017.

Date of mortality event:	December 14, 2017 and December 17, 2017
Date of cold front:	December 14, 2017
Approximate time of cold front:	1800
Change in temperature:	approximately down 20°F in 18 hours
Change in wind speed:	approximately up 25 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	1 / 1

January 1 and 2, 2018 – 7 Crashes and 2 Pelican Mortalities

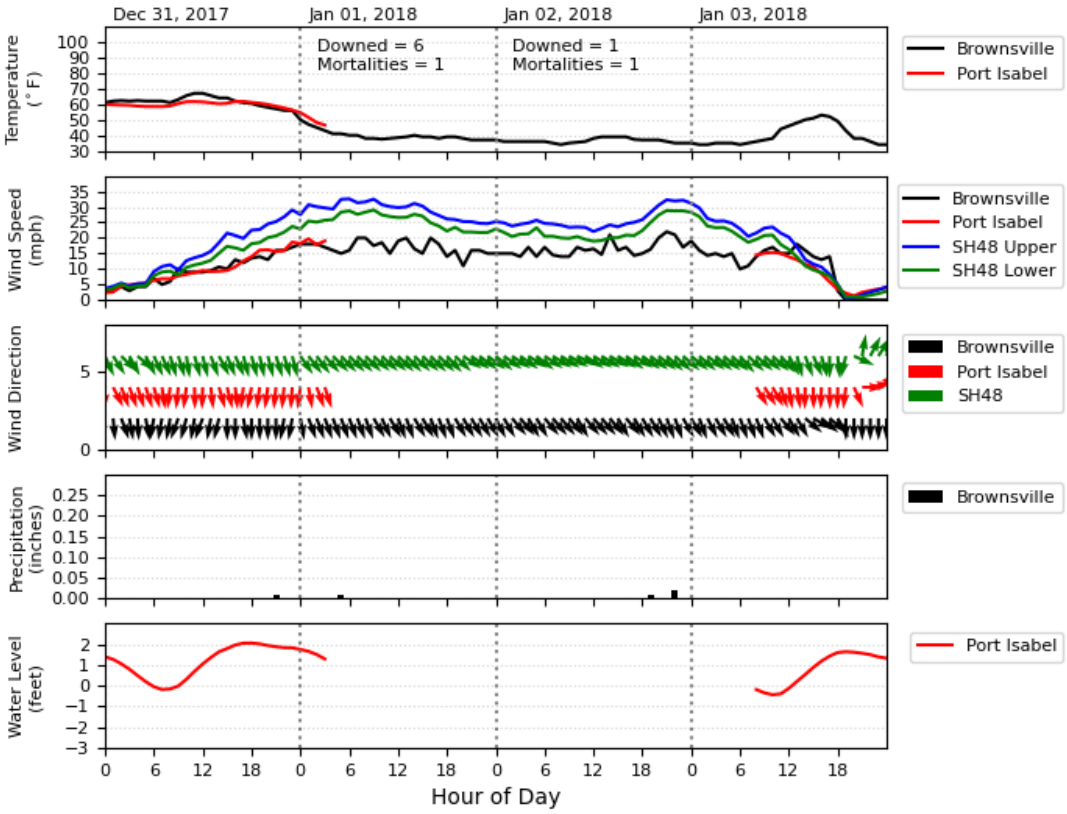

Figure 28. Weather parameters measured on December 31, 2017 through January 03, 2018.

Date of mortality event:	January 01, 2018 and January 02, 2018
Date of cold front:	December 31, 2017
Approximate time of cold front:	0000
Change in temperature:	approximately down 30°F in 18 hours
Change in wind speed:	approximately up 25 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 4 days
Count of downed pelicans / mortalities:	7 / 2

January 11, 2018 – 2 Crashes and 2 Pelican Mortalities

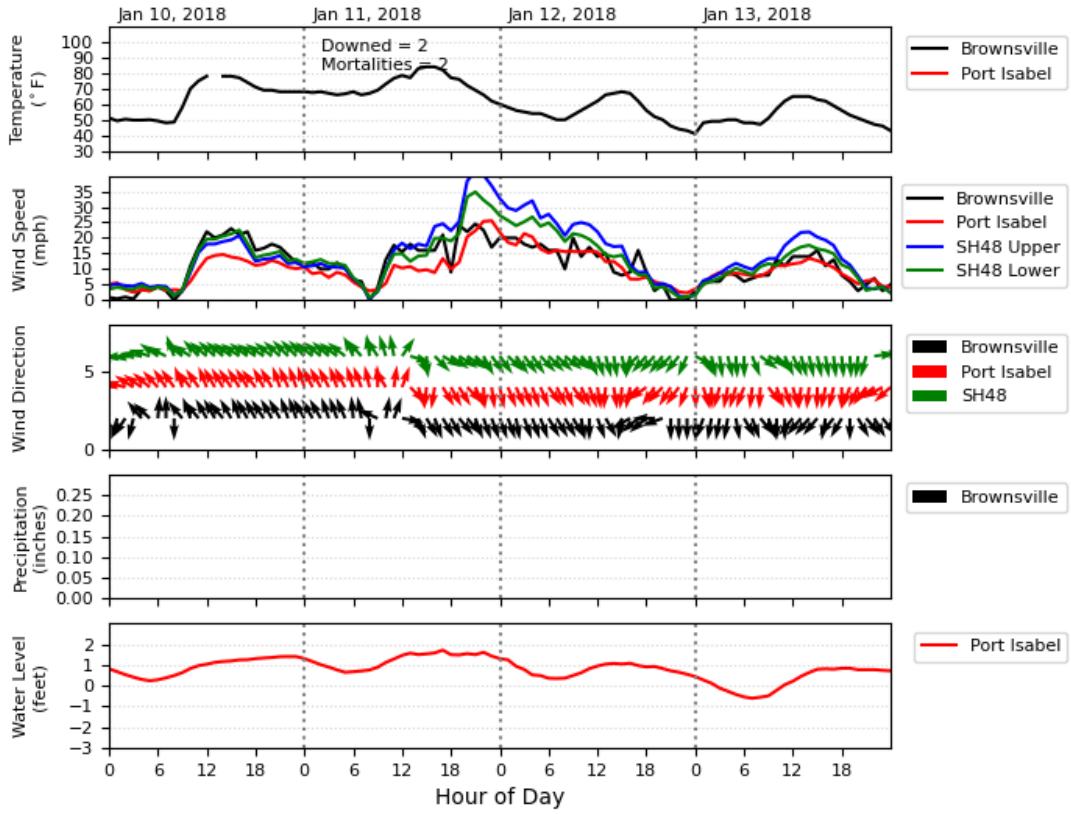

Figure 29. Weather parameters measured on January 10 through January 13, 2018.

Date of mortality event:	January 11, 2018
Date of cold front:	January 11, 2018
Approximate time of cold front:	0900
Change in temperature:	approximately down 35°F in 15 hours
Change in wind speed:	approximately up 35 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2.5 days
Count of downed pelicans / mortalities:	2 / 2

January 16, 2018 – 34 Crashes and 7 Pelican Mortalities

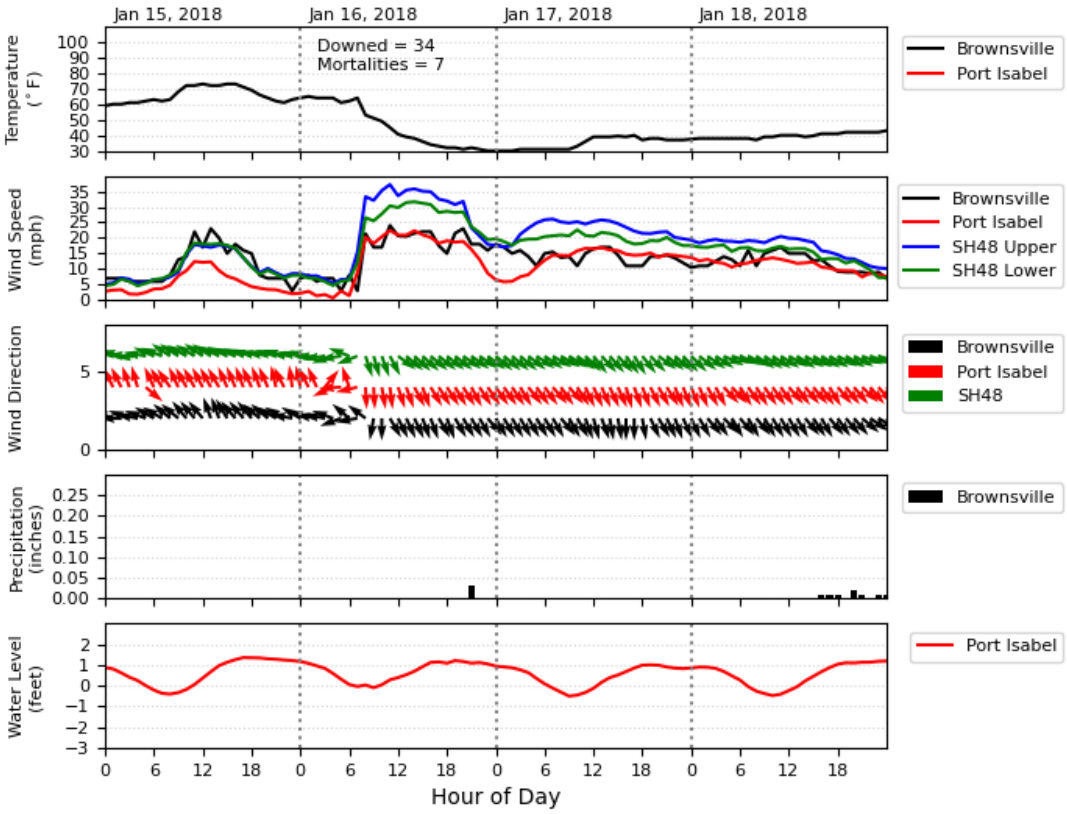

Figure 30. Weather parameters measured on January 15 through January 18, 2018.

Date of mortality event:	January 16, 2018
Date of cold front:	January 16, 2018
Approximate time of cold front:	0600
Change in temperature:	approximately down 35°F in 18 hours
Change in wind speed:	approximately up 30 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 3 days
Count of downed pelicans / mortalities:	34 / 7

February 11, 2018 – 7 Crashes and 2 Pelican Mortalities

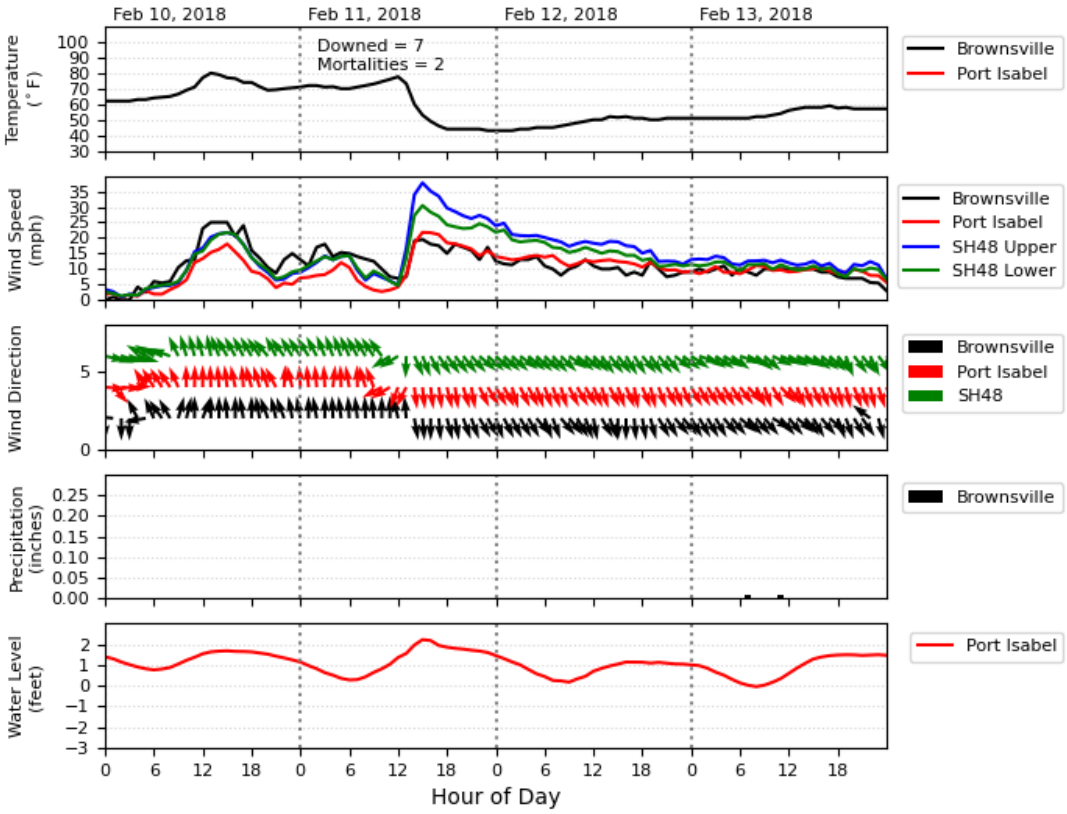

Figure 31. Weather parameters measured on February 10, 2018 through February 13, 2018.

Date of mortality event:	February 11, 2018
Date of cold front:	February 11, 2018
Approximate time of cold front:	1200
Change in temperature:	approximately down 35°F in 4 hours
Change in wind speed:	approximately up 30 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2.5 days
Count of downed pelicans / mortalities:	7 / 2

October 15, 16, 17, and 18, 2018 – 83 Crashes and 59 Pelican Mortalities

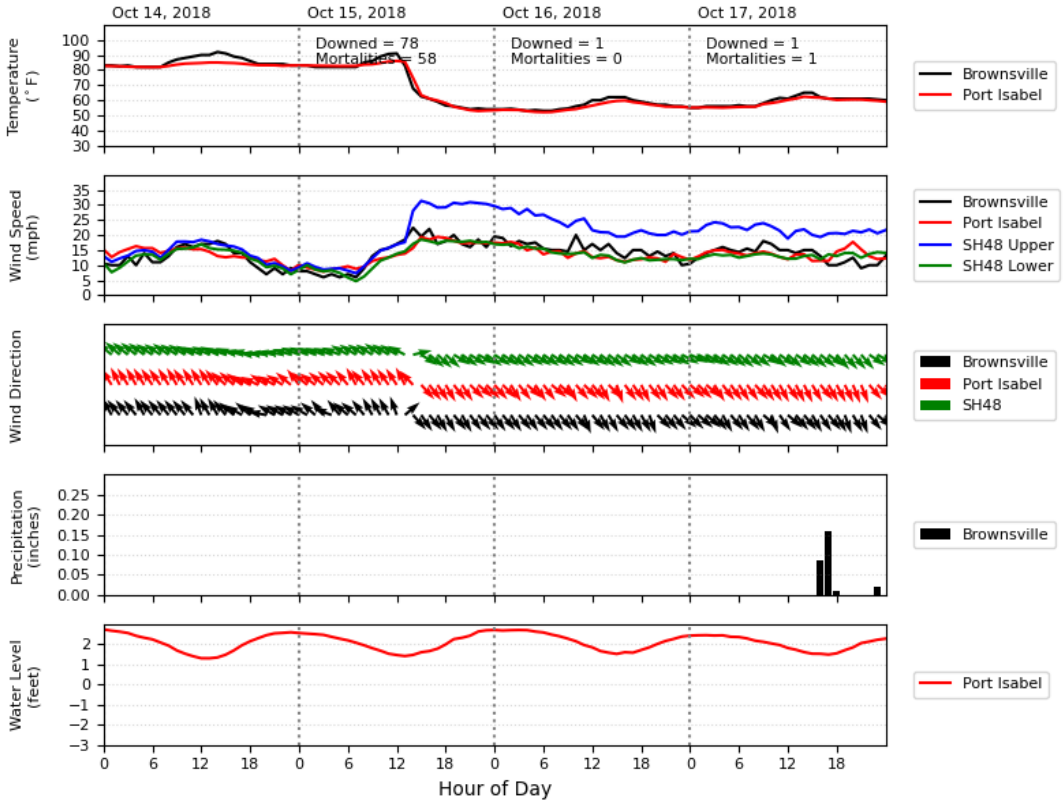

Figure 32. Weather parameters measured on October 15, 2018 through October 18, 2018.

Date of mortality event:	October 15, 2018
Date of cold front:	October 15, 2018
Approximate time of cold front:	1200
Change in temperature:	approximately down 35°F in 6 hours
Change in wind speed:	approximately up 20 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 3.5 days
Count of downed pelicans / mortalities:	83* / 59

*Includes three downed (crashed) pelicans recorded on October 18, 2018

November 9, 2019 – 25 Crashes and 5 Pelican Mortalities

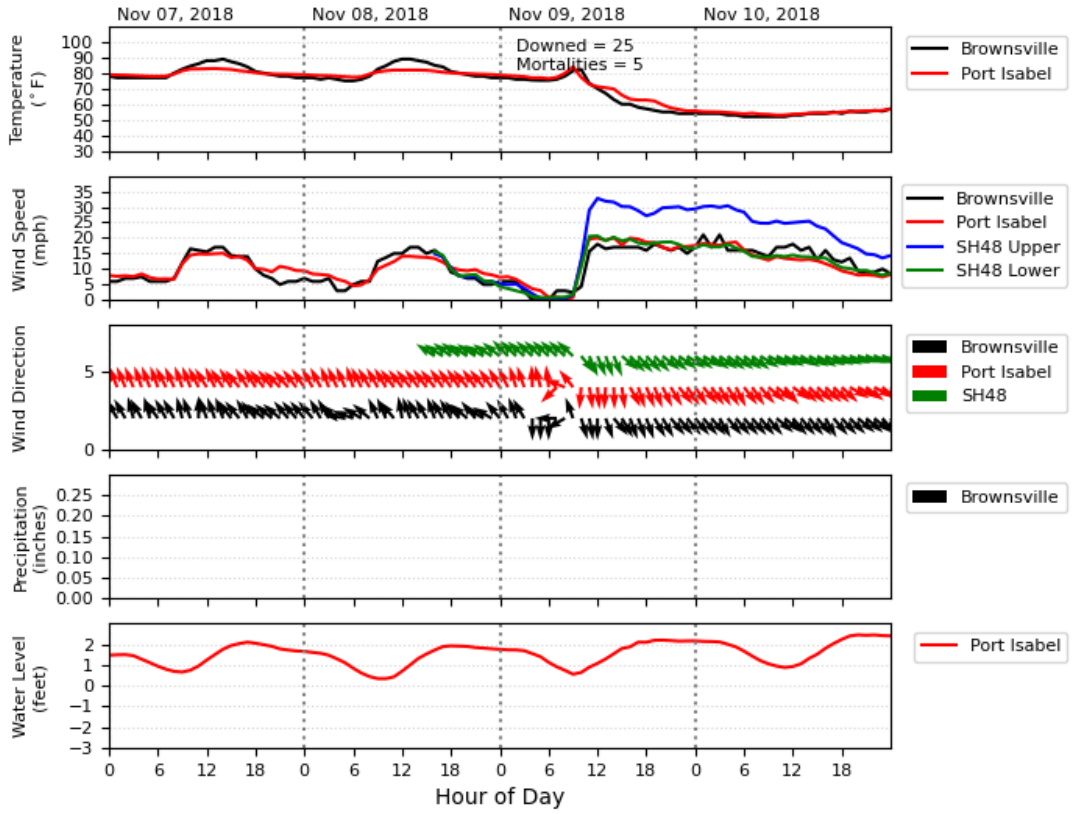

Figure 33. Weather parameters measured on November 07, 2018 through November 10, 2018.

Date of mortality event:	November 09, 2018
Date of cold front:	November 09, 2018
Approximate time of cold front:	0900
Change in temperature:	approximately down 25°F in 15 hours
Change in wind speed:	approximately up 20 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 3 days
Count of downed pelicans / mortalities:	25 / 5

November 12 and 13, 2018 – 25 Crashes and 9 Pelican Mortalities

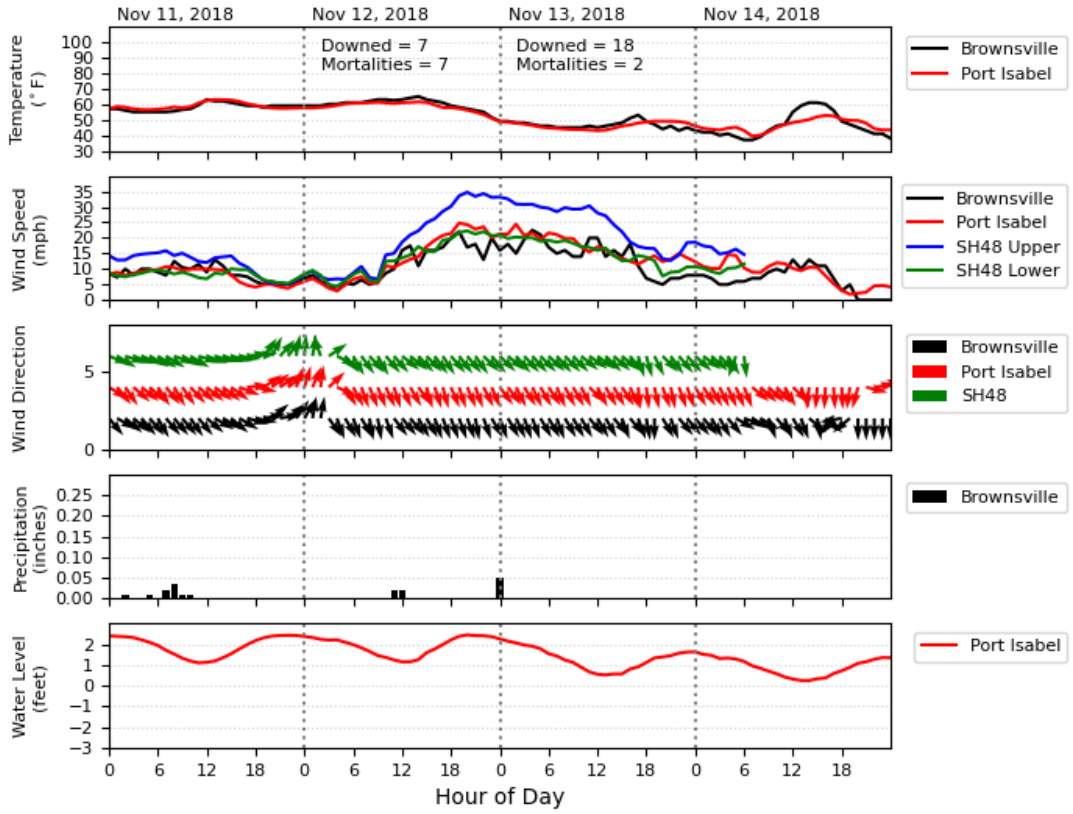

Figure 34. Weather parameters measured on November 11, 2018 through November 14, 2018.

Date of mortality event:	November 12, 2018 and November 13, 2018
Date of cold front:	November 12, 2018
Approximate time of cold front:	0400
Change in temperature:	approximately down 20°F in 12 hours
Change in wind speed:	approximately up 30 mph
Change in wind direction:	approximately 160 degrees
Duration of cold front:	approximately 2.5 days
Count of downed pelicans / mortalities:	25 / 9

November 25, 2018 – 1 Crash and 1 Pelican Mortality

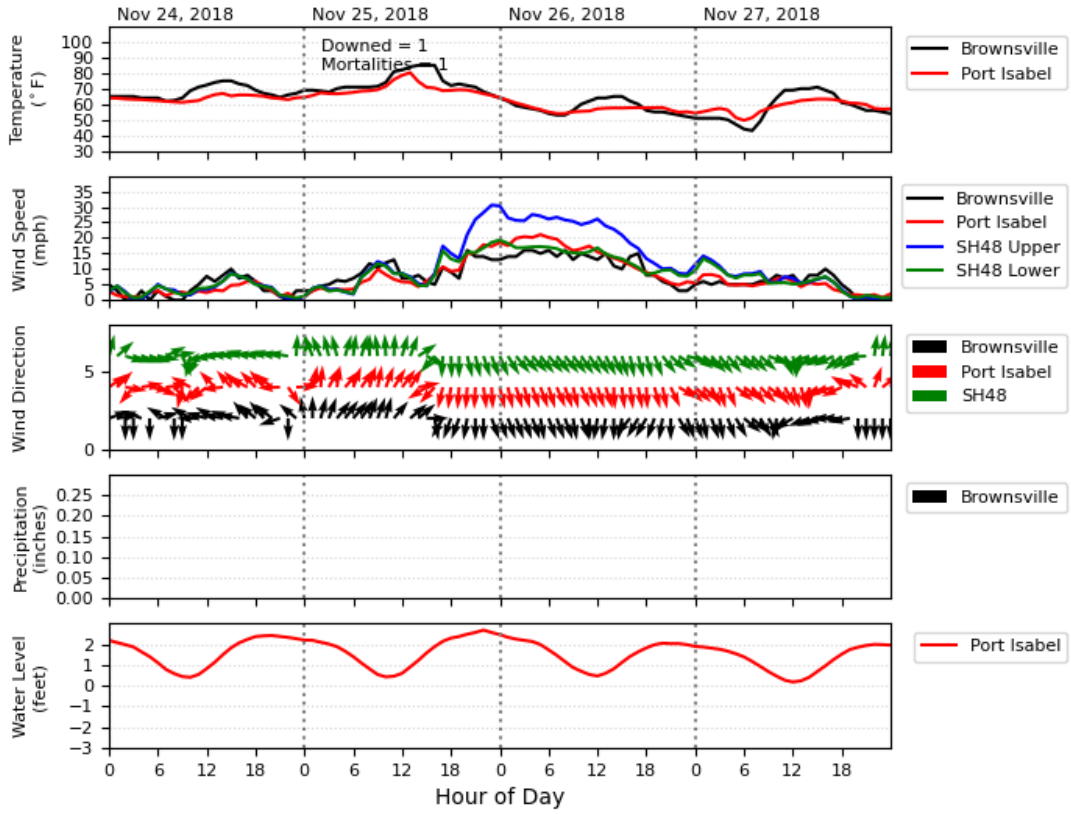

Figure 35. Weather parameters measured on November 24, 2018 through November 27, 2018.

Date of mortality event:	November 25, 2018
Date of cold front:	November 25, 2018
Approximate time of cold front:	1500
Change in temperature:	approximately down 35°F in 15 hours
Change in wind speed:	approximately up 25 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 1 day
Count of downed pelicans / mortalities:	1 / 1

December 13 and 14, 2018 – 6 Crashes and 5 Pelican Mortalities

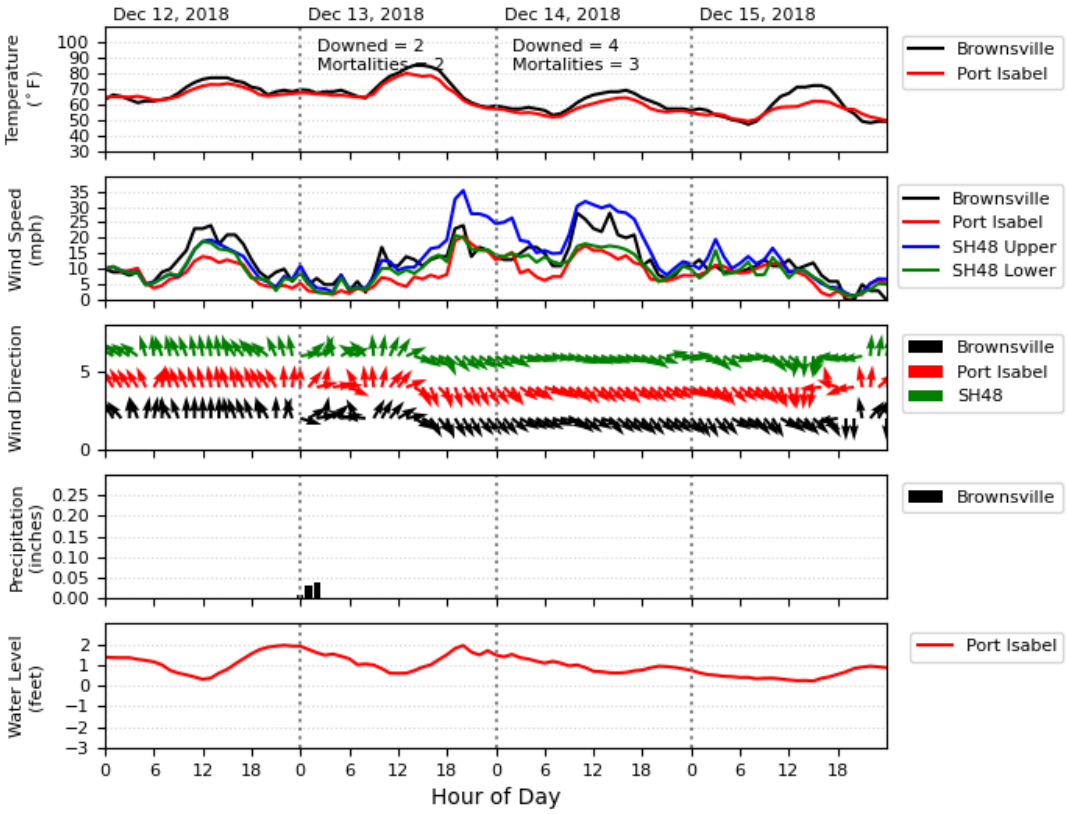

Figure 36. Weather parameters measured on December 12, 2018 through December 15, 2018.

Date of mortality event:	December 13, 2018 and December 14, 2018
Date of cold front:	December 13, 2018
Approximate time of cold front:	1200
Change in temperature:	approximately down 30°F in 12 hours
Change in wind speed:	approximately up 30 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	6 / 5

December 29, 2018 – 3 Crashes and 1 Pelican Mortality

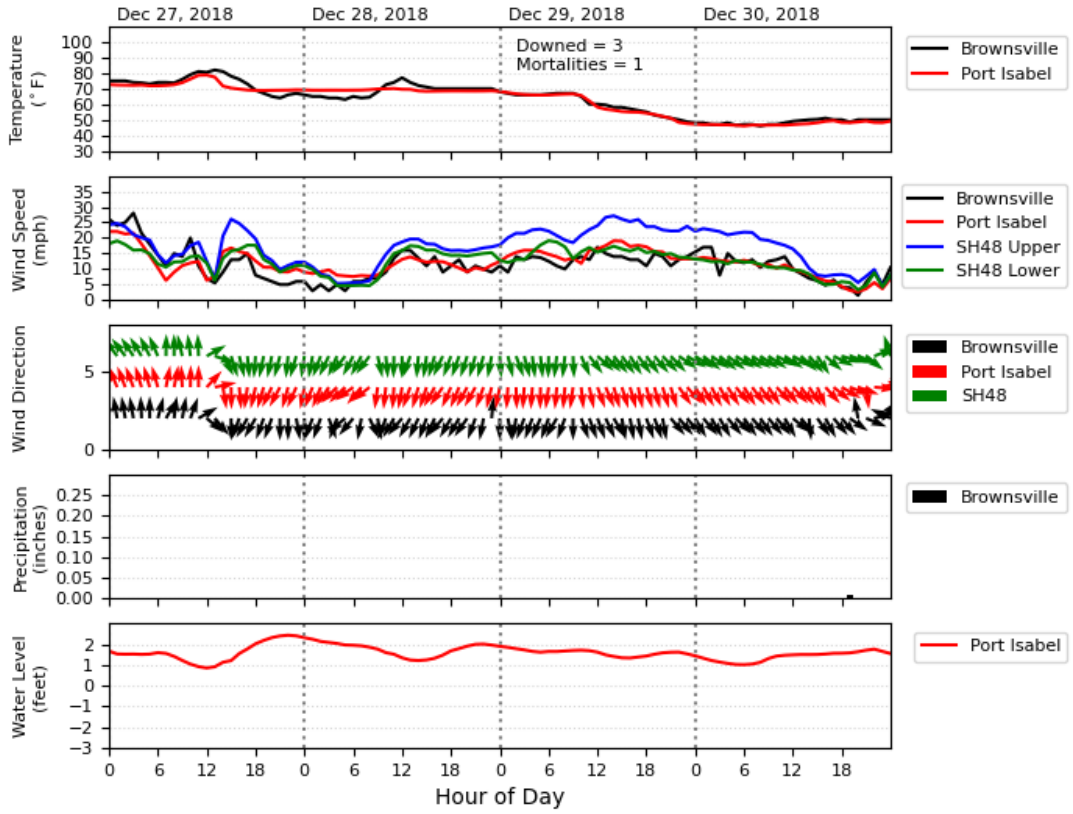

Figure 37. Weather parameters measured on December 27, 2018 through December 30, 2018.

Date of mortality event:	December 29, 2018
Date of cold front:	December 27, 2018
Approximate time of cold front:	1200
Change in temperature:	approximately down 10°F in 6 hours
Change in wind speed:	approximately up 20 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 3 days
Count of downed pelicans / mortalities:	3 / 1

January 2, 2019 – 1 Crash and 1 Pelican Mortality

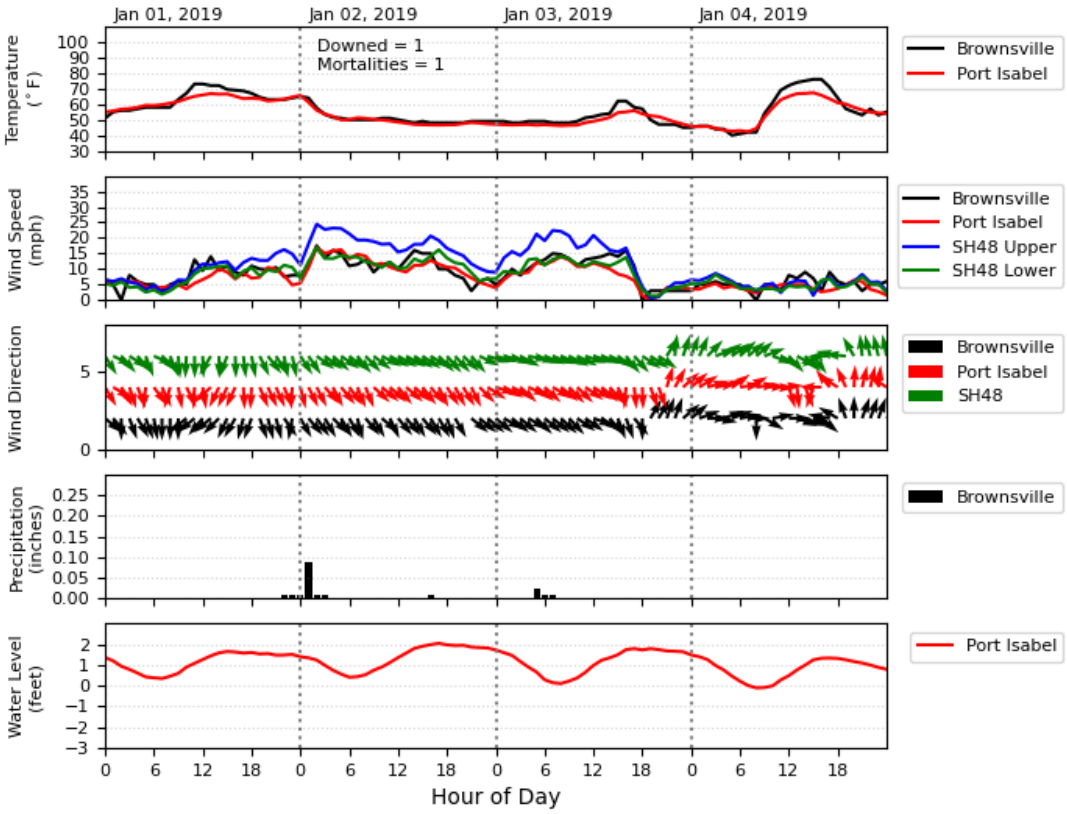

Figure 38. Weather parameters measured on January 01, 2019 through January 04, 2019.

Date of mortality event:	January 02, 2019
Date of cold front:	January 02, 2019
Approximate time of cold front:	0000
Change in temperature:	approximately down 15°F in 4 hours
Change in wind speed:	approximately up 20 mph
Change in wind direction:	no change in direction
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	1 / 1

January 18 and 19, 2019 – 6 Crashes and 2 Pelican Mortalities

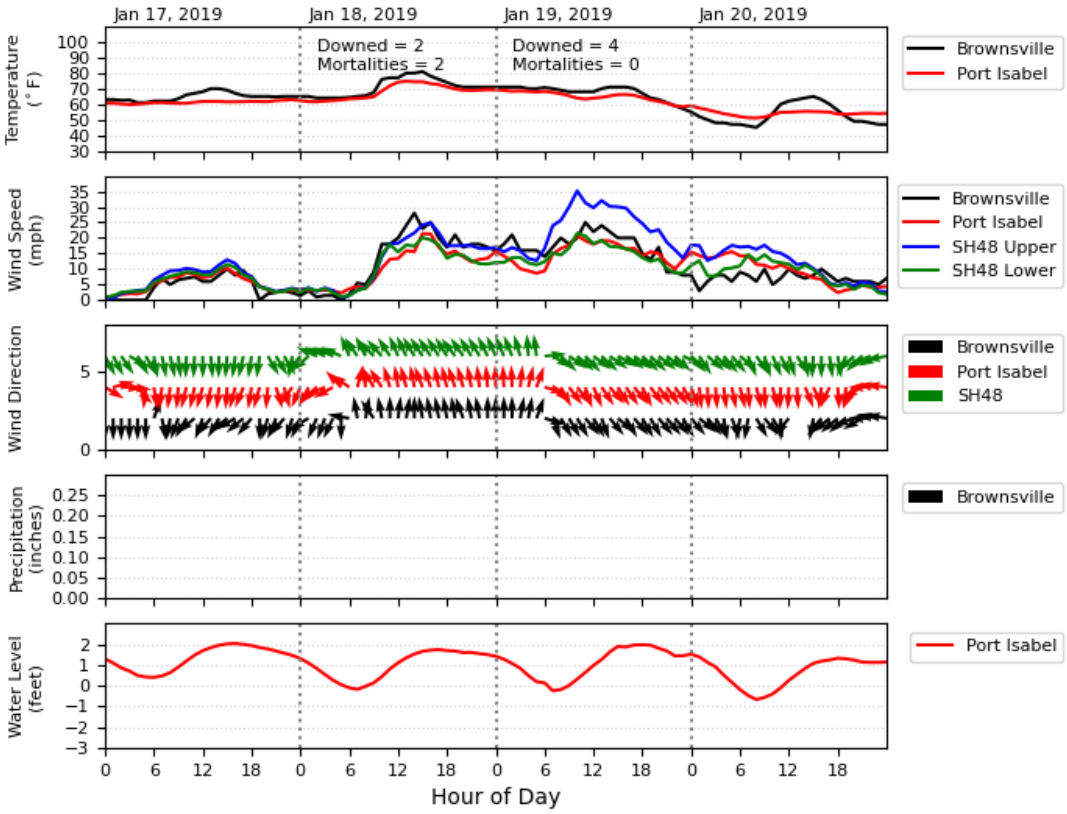

Figure 39. Weather parameters measured on January 17, 2019 through January 19, 2019.

Date of mortality event:	January 18, 2019
Date of cold front:	January 18, 2019
Approximate time of cold front:	0600
Change in temperature:	approximately down 10°F in 4 hours
Change in wind speed:	approximately up 20 mph
Change in wind direction:	approximately 180 degrees twice
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	6 / 2

January 23, 2019 – 1 Crash and 1 Pelican Mortality

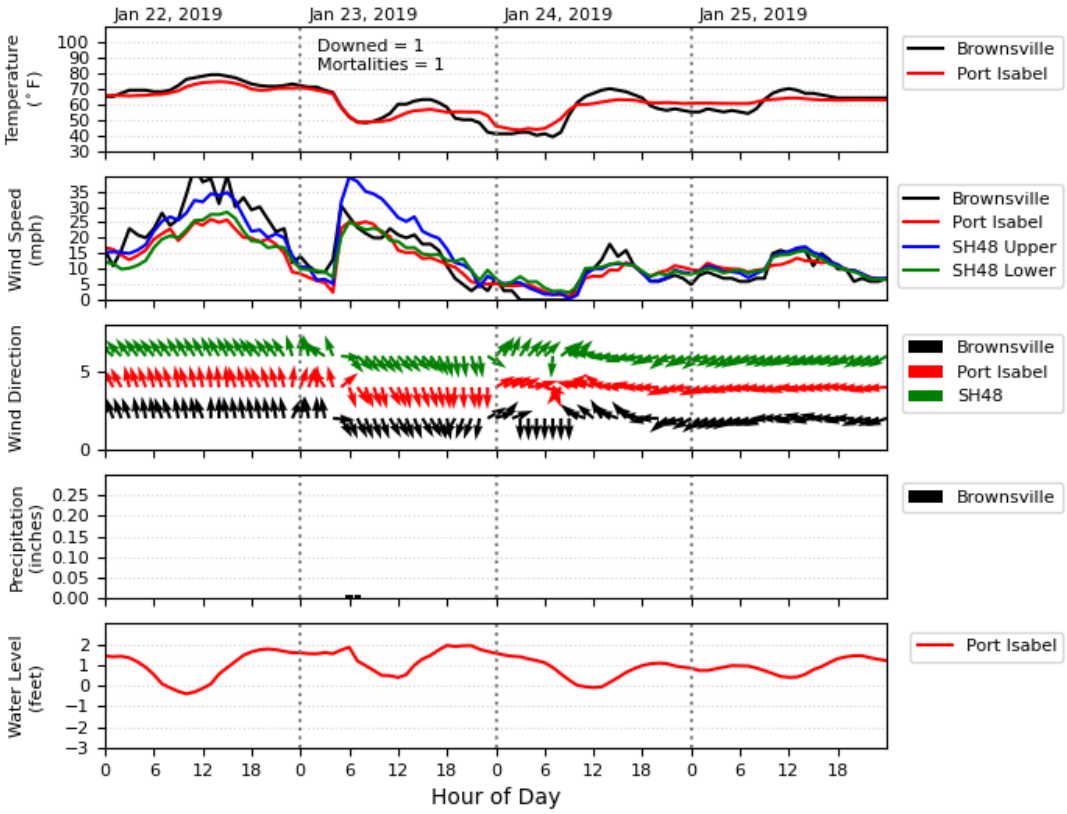

Figure 40. Weather parameters measured on January 22 through January 24, 2019.

Date of mortality event:	January 23, 2019
Date of cold front:	January 23, 2019
Approximate time of cold front:	0400
Change in temperature:	approximately down 20°F in 2 hours
Change in wind speed:	approximately up 35 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 1 day
Count of downed pelicans / mortalities:	1 / 1

October 11, 2019 – 37 Crashes and 10 Pelican Mortalities

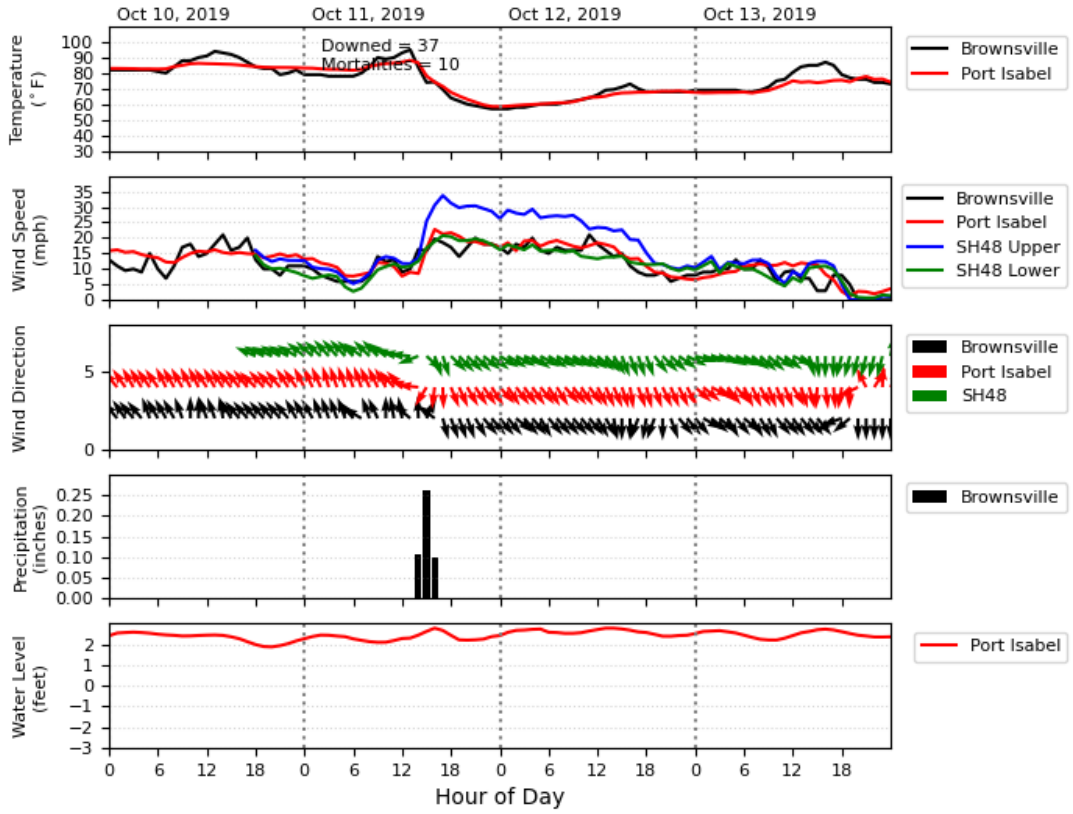

Figure 41. Weather parameters measured on October 10 through October 13, 2019.

Date of mortality event:	October 11, 2019
Date of cold front:	October 11, 2019
Approximate time of cold front:	1200
Change in temperature:	approximately down 35°F in 6 hours
Change in wind speed:	approximately up 25 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 1.5 days
Count of downed pelicans / mortalities:	37 / 10

October 25, 2019 – 6 Crashes and 3 Pelican Mortalities

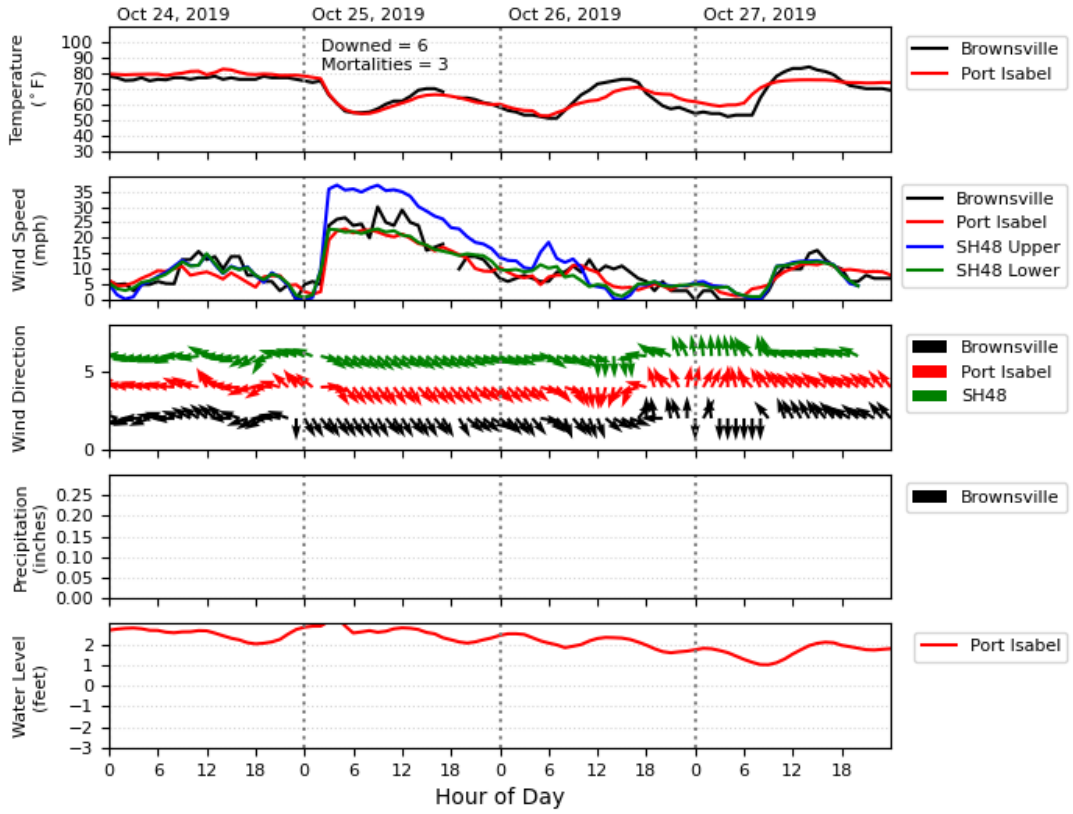

Figure 42. Weather parameters measured on October 24 through October 27, 2019.

Date of mortality event:	October 25, 2019
Date of cold front:	October 25, 2019
Approximate time of cold front:	0200
Change in temperature:	approximately down 25°F in 4 hours
Change in wind speed:	approximately up 35 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 1.5 days
Count of downed pelicans / mortalities:	6 / 3

October 30 and 31, 2019 – 19 Crashes and 17 Pelican Mortalities

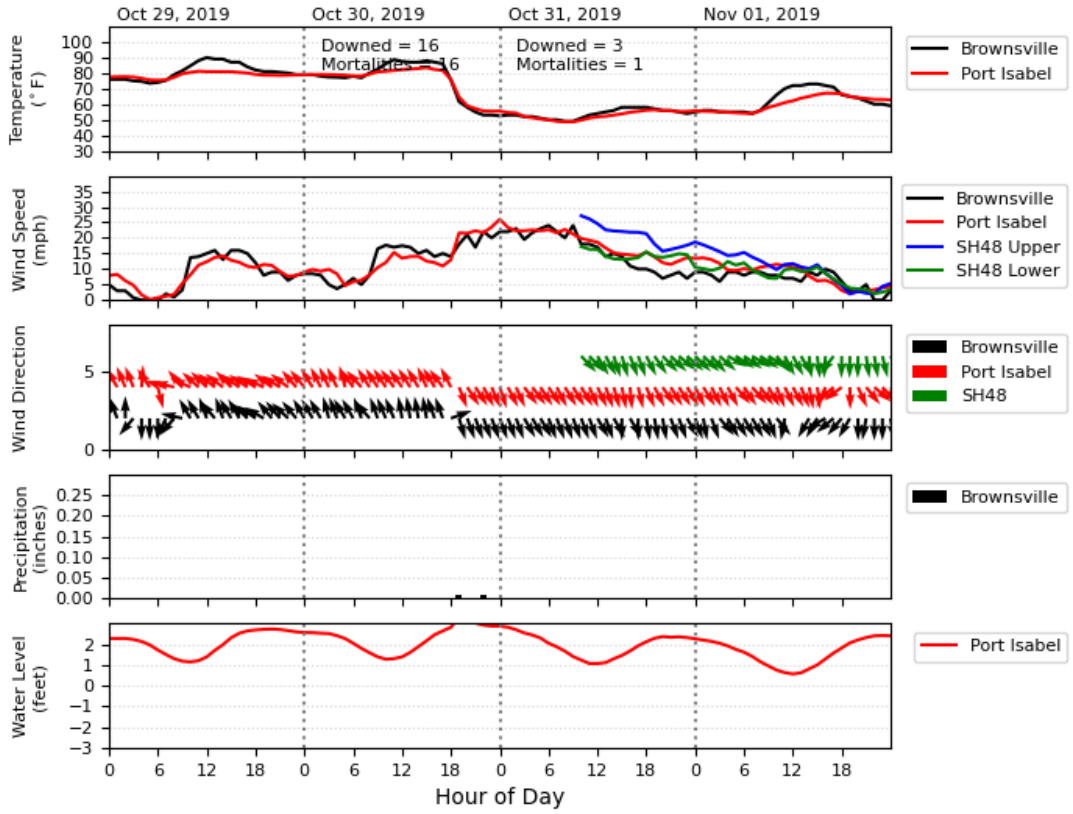

Figure 43. Weather parameters measured on October 29, 2019 through November 01, 2019.

Date of mortality event:	October 30, 2019 and October 31, 2019
Date of cold front:	October 30, 2019
Approximate time of cold front:	1800
Change in temperature:	approximately down 35°F in 4 hours
Change in wind speed:	approximately up 15 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	19 / 17

November 8, 2019 – 5 Crashes and 2 Pelican Mortalities

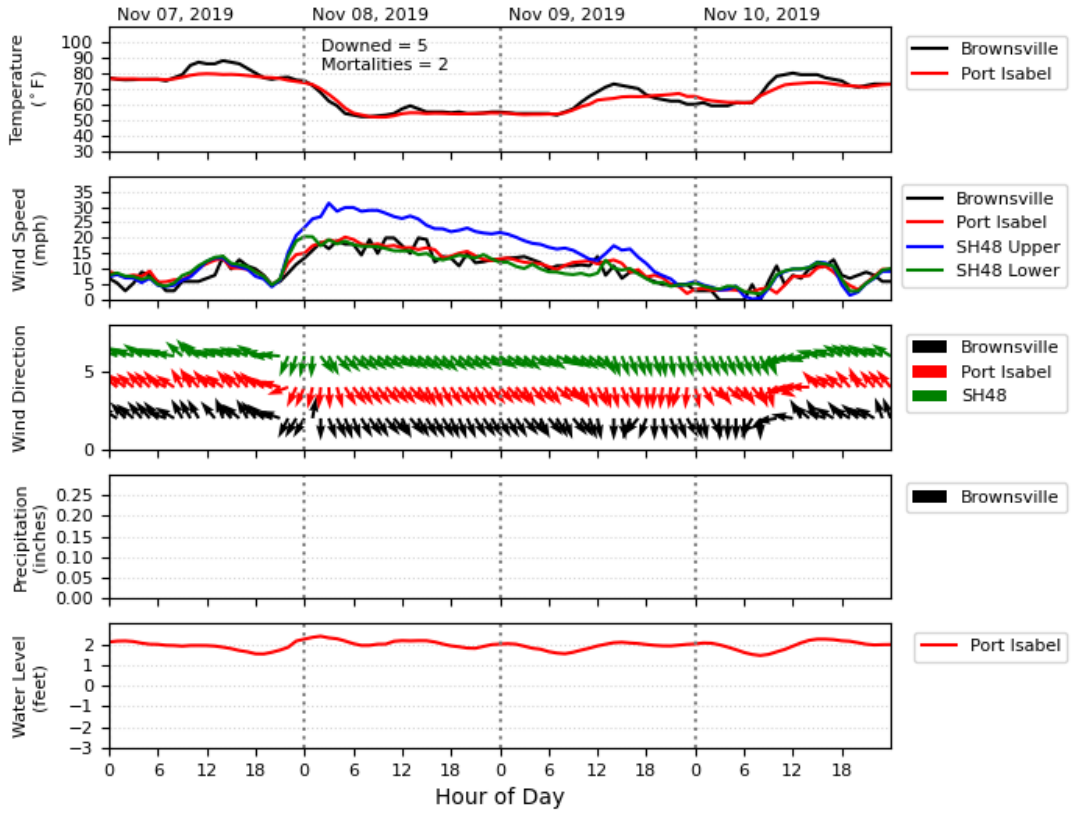

Figure 44. Weather parameters measured on November 07, 2019 through November 10, 2019.

Date of mortality event:	November 08, 2019
Date of cold front:	November 07, 2019
Approximate time of cold front:	2100
Change in temperature:	approximately down 30°F in 9 hours
Change in wind speed:	approximately up 25 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	5 / 2

November 12, 2019 – 26 Crashes and 7 Pelican Mortalities

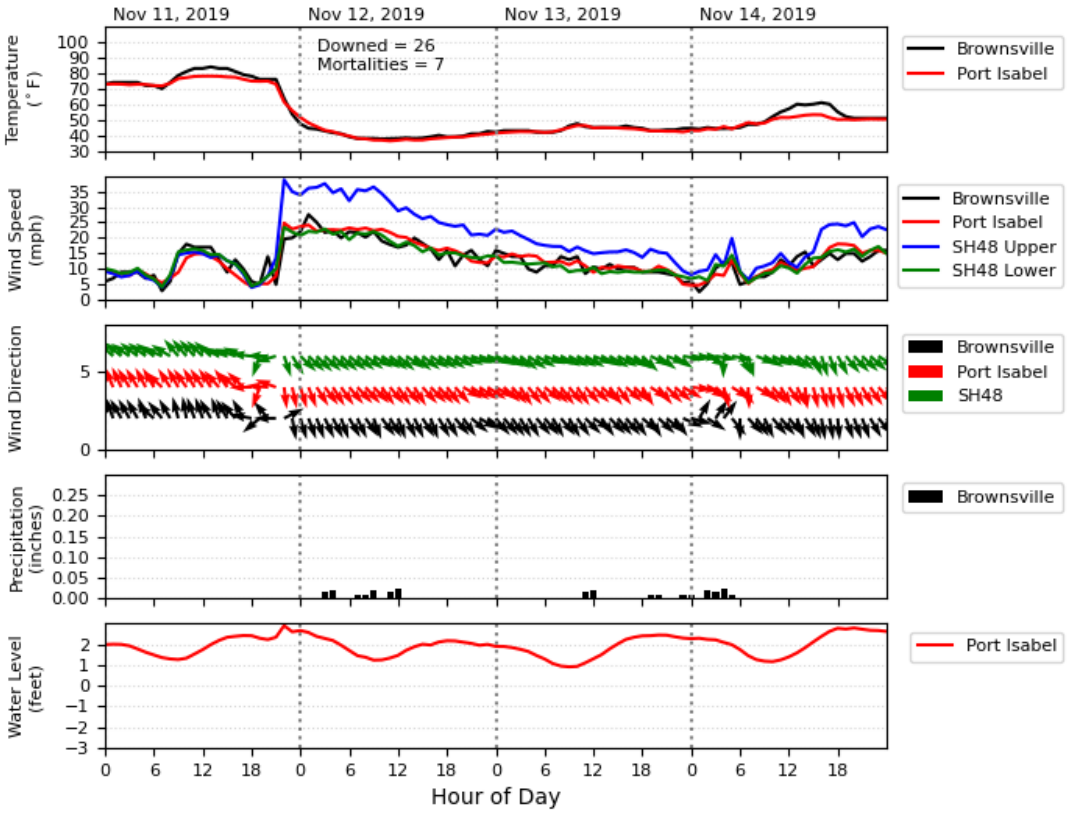

Figure 45. Weather parameters measured on November 11 through November 14, 2019.

Date of mortality event:	November 12, 2019
Date of cold front:	November 11, 2019
Approximate time of cold front:	2100
Change in temperature:	approximately down 35°F in 6 hours
Change in wind speed:	approximately up 35 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2.5 days
Count of downed pelicans / mortalities:	26 / 7

December 10, 2019 – 3 Crashes and 1 Pelican Mortality

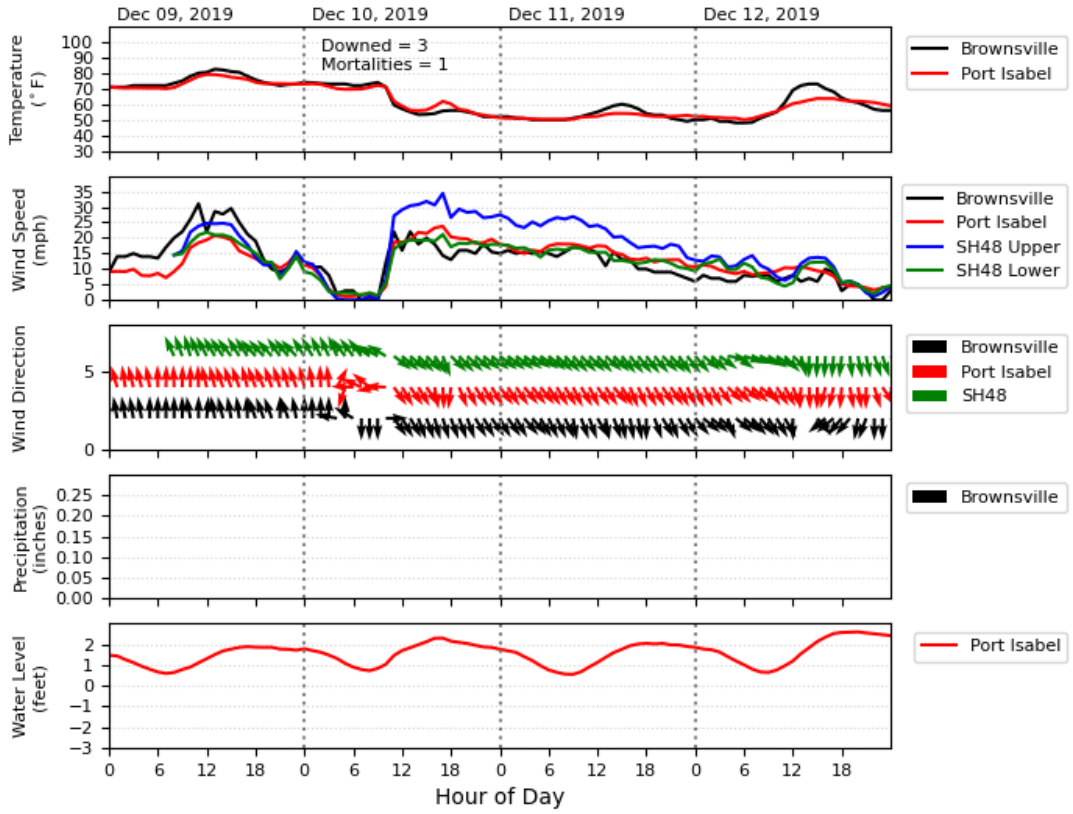

Figure 46. Weather parameters measured on December 09 through December 12, 2019.

Date of mortality event:	December 10, 2019
Date of cold front:	December 10, 2019
Approximate time of cold front:	0900
Change in temperature:	approximately down 15°F in 3 hours
Change in wind speed:	approximately up 35 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	3 / 1

December 16 and 17, 2019 – 4 Crashes and 2 Pelican Mortalities

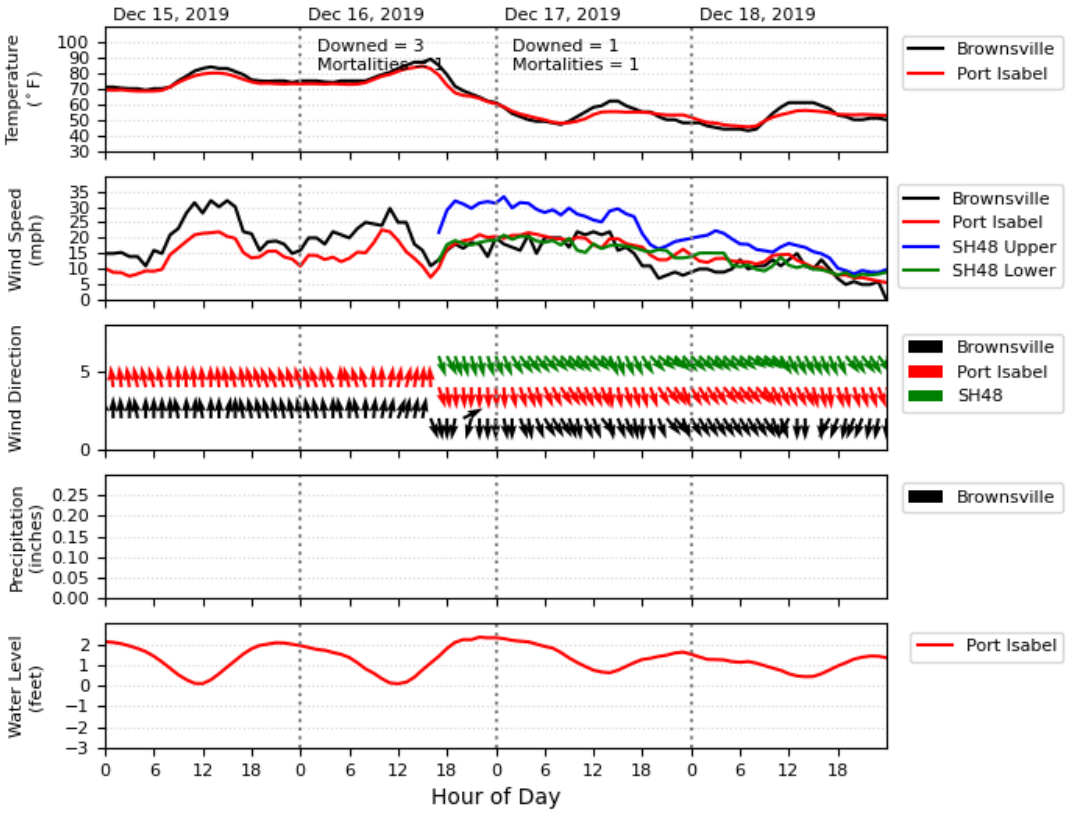

Figure 47. Weather parameters measured on December 15 through December 18, 2019.

Date of mortality event:	December 16, 2019 and December 17, 2019
Date of cold front:	December 16, 2019
Approximate time of cold front:	1600
Change in temperature:	approximately down 40°F in 15 hours
Change in wind speed:	approximately up 10 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	4 / 2

January 19, 2020 – 1 Crash and 0 Pelican Mortalities

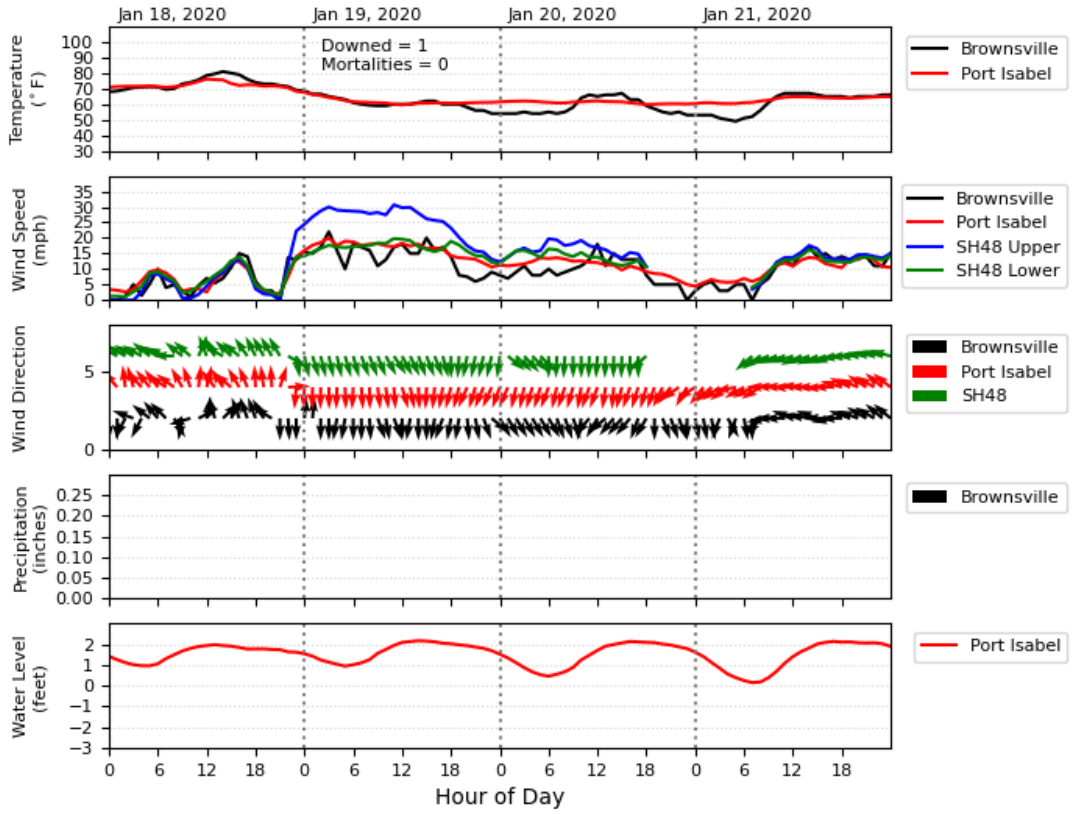

Figure 48. Weather parameters measured on January 18 through January 21, 2020.

Date of mortality event:	January 19, 2020
Date of cold front:	January 18, 2020
Approximate time of cold front:	2100
Change in temperature:	approximately down 10°F in 9 hours
Change in wind speed:	approximately up 30 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2 days
Count of downed pelicans / mortalities:	1 / 0

December 3, 2020 – 6 Crashes and 6 Pelican Mortalities

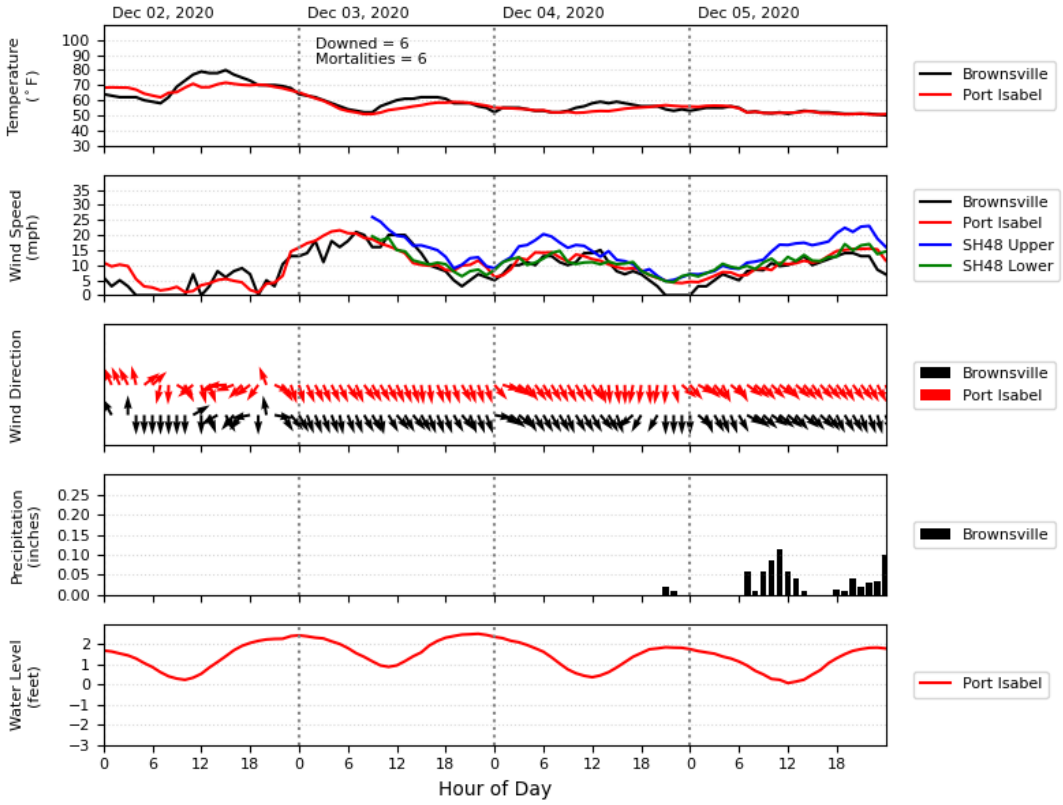

Figure 49. Weather parameters measured on December 02 through December 05, 2020.

Date of mortality event:	December 03, 2020
Date of cold front:	December 02, 2020
Approximate time of cold front:	1800
Change in temperature:	approximately down 20°F in 6 hours
Change in wind speed:	approximately up 25 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 3 days
Count of downed pelicans / mortalities:	6 / 6

December 24, 2020 – 2 Crashes and 1 Pelican Mortality

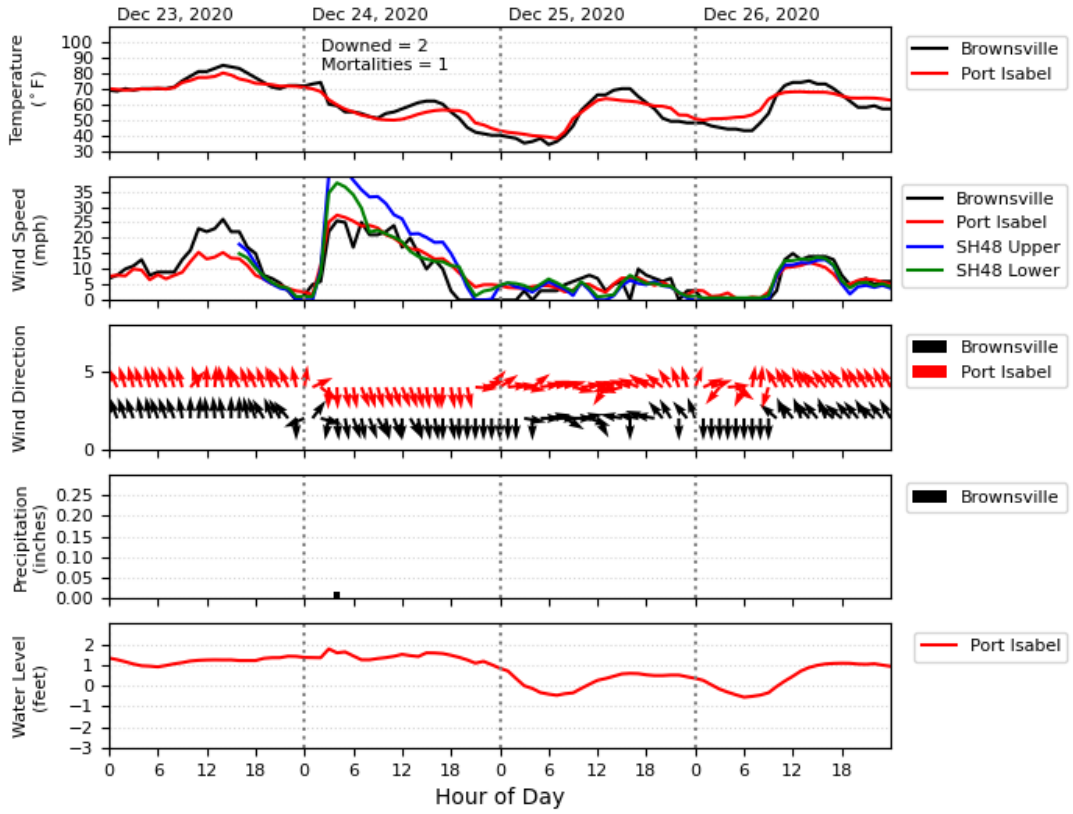

Figure 50. Weather parameters measured on December 02 through December 05, 2020.

Date of mortality event:	December 24, 2020
Date of cold front:	December 24, 2020
Approximate time of cold front:	0200
Change in temperature:	approximately down 20°F in 6 hours
Change in wind speed:	approximately up 40 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 1 days
Count of downed pelicans / mortalities:	2 / 1

December 31, 2020 – 1 Crash and 1 Pelican Mortality

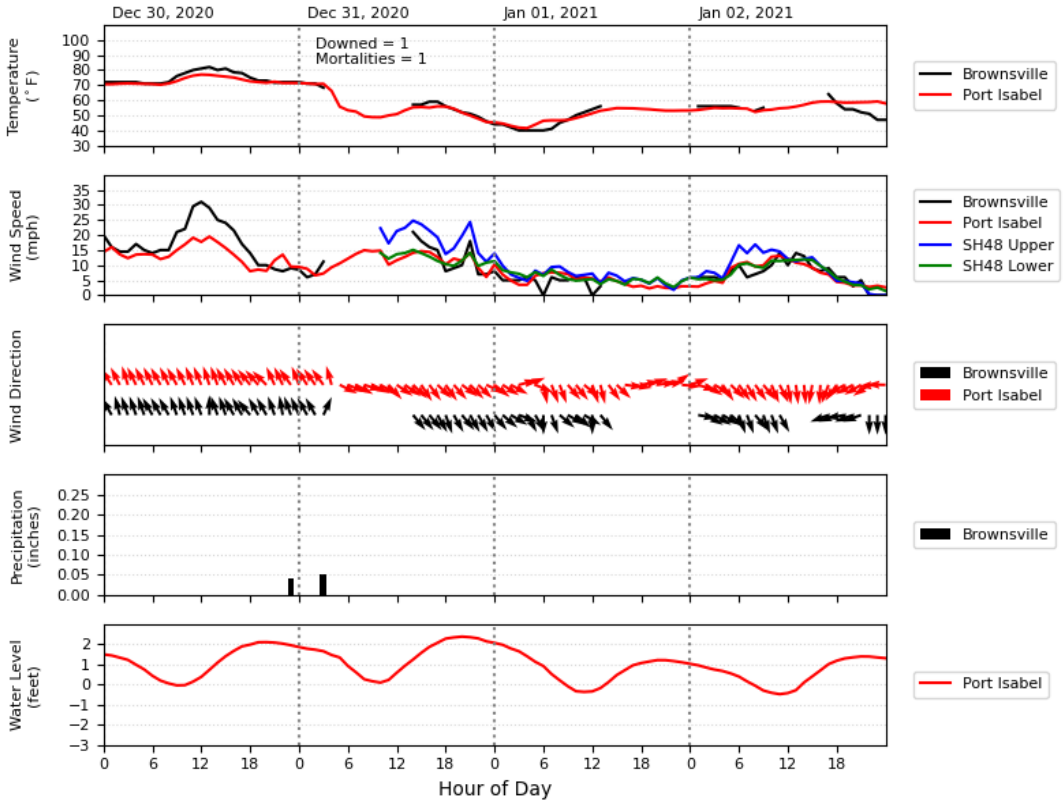

Figure 51. Weather parameters measured on December 30, 2020 through January 02, 2021.

Date of mortality event:	December 31, 2020
Date of cold front:	December 31, 2020
Approximate time of cold front:	0300
Change in temperature:	approximately down 20 ^{o}F in 9 hours
Change in wind speed:	approximately up 15 mph
Change in wind direction:	approximately 170 degrees
Duration of cold front:	approximately 1 days
Count of downed pelicans / mortalities:	1 / 1

January 10, 2021 – 91 Crashed and 19 Pelican Mortalities

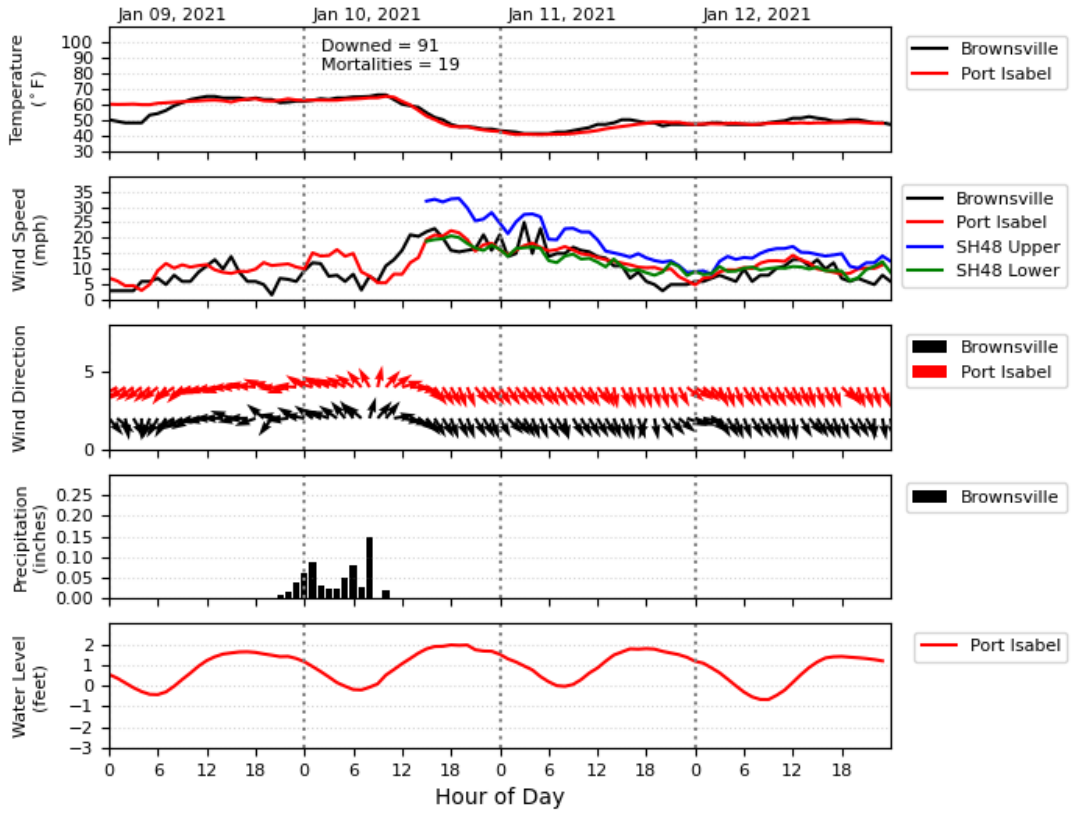

Figure 52. Weather parameters measured on January 09 through January 12, 2021.

Date of mortality event:	January 10, 2021
Date of cold front:	January 10, 2021
Approximate time of cold front:	1200
Change in temperature:	approximately down 30°F in 12 hours
Change in wind speed:	approximately up 25 mph
Change in wind direction:	approximately 180 degrees
Duration of cold front:	approximately 2.5 days
Count of downed pelicans / mortalities:	91 / 19

SUMMARY OF LAMB (2016) BROWN PELICAN GPS STUDY

This appendix summarizes the seasonal dispersal patterns of Brown Pelicans as studied by Lamb (2016) during a Ph.D. thesis titled "Ecological Drivers of Brown Pelican Movement Patterns and Reproductive Success in the Gulf of Mexico"[1]. In this study, Lamb attached GPS transmitters to 81 pelicans captured at six nesting colonies on the northern Gulf of Mexico. The locations of the six nesting colonies are shown in Figure 1. The thesis and associated GPS data were accessed online at https://tigerprints.clemson.edu/all_dissertations/1645. For this summary, the raw GPS data collected during the Lamb study were analyzed independently by TTI researchers.

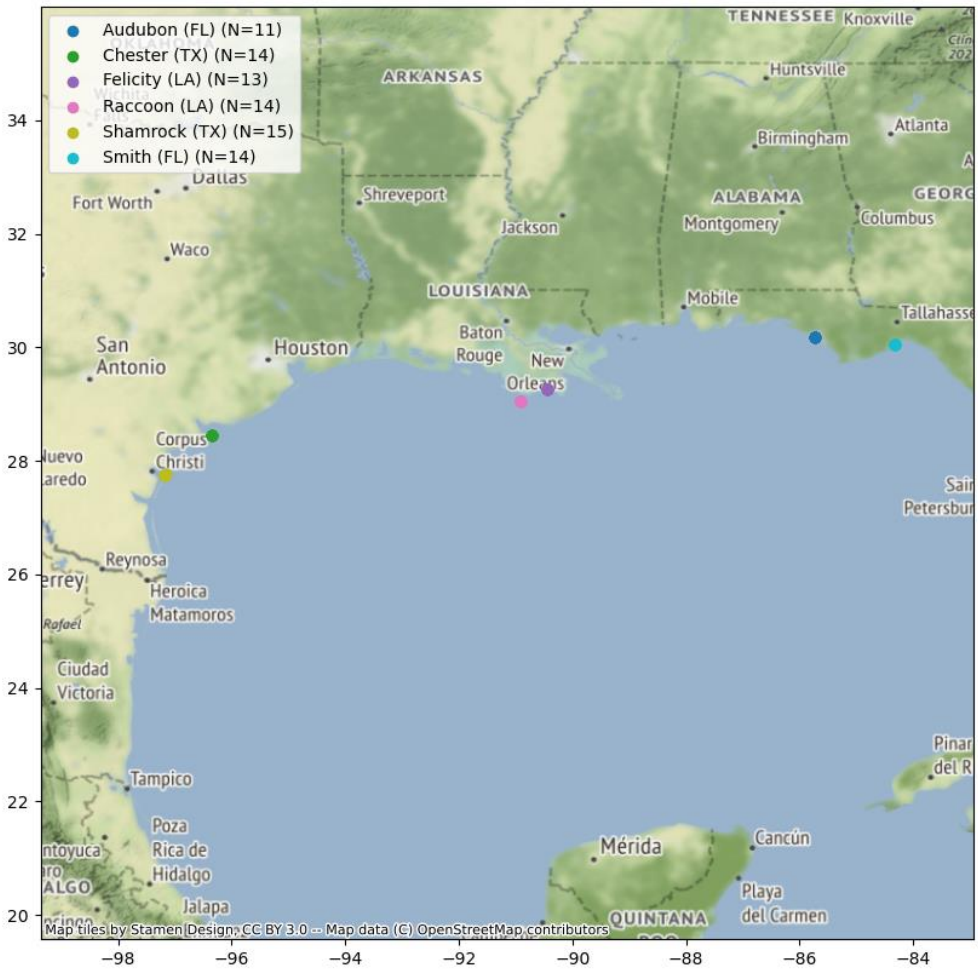

Figure 53. Locations of six nest colonies used as study sites in Lamb (2016). The legend also indicates the number of pelicans captured and fitted with GPS trackers at each site.

[1] Lamb, Juliet Sarah, "Ecological Drivers of Brown Pelican Movement Patterns and Reproductive Success in the Gulf of Mexico" (2016). *All Dissertations*. 1645.
https://tigerprints.clemson.edu/all_dissertations/1645.

Lamb captured pelicans while tending nests at each of the nest colonies. Pelicans were captured during the 2013 and 2014 nesting seasons (April to May). The GPS devices were programmed to record 12 locations per day in the breeding season (April to August), eight locations during winter (November – January), and 10 per day pre- and post-breeding season.

The resulting GPS data provide useful background information for the current TxDOT study. The current TxDOT study focuses on understanding the daily and seasonal movements of Brown Pelicans in the Bahia Grande Wetland Complex (BGWC) near Brownsville, Texas. As such, the research team captured pelicans in the study area, with a view to monitoring their seasonal movement (for example, fidelity to the BGWC, and migration to summer ranges). In contrast, Lamb's study followed pelicans captured on nest sites (at six different colonies). Lamb's study provides a different view of seasonal movements focused on understanding range fidelity and the extent to which pelicans captured from different sites share similar seasonal ranges.

In remaining sections of this Appendix, the TTI research team summarize the seasonal movements of each pelican tracked by Lamb[2]. The following section qualitatively summarizes the seasonal movement exhibited by all pelicans in the Lamb study. This summary is focused on information that is especially useful for the current TxDOT project. In subsequent sections, the research team summarize movements through a series of standardized maps displaying monthly movements of each pelican followed during the study. Because the purpose of the summaries is to highlight large-scale seasonal movements the maps are scaled to show the entire Gulf of Mexico Coast and Caribbean.

SUMMARY OF SEASONAL MOVEMENTS

The following is a summary of the seasonal movements as interpreted from Lamb's data. The location that each pelican was captured is indicated by the pelican's alphanumeric ID number (**Table 1**).

1. Table 1. Alphanumeric ID designations for pelican ID indicating capture location.

Alphanumeric ID Designation	Capture Location	Number of Tagged Pelicans*
AU	Audubon Island, Florida (Panama City)	11
CH	Chester Island, Texas (Matagorda Bay)	14
FE	Felicity Island, Louisiana (Mississippi River delta SSW of New Orleans)	13
RA	Raccoon Island, Louisiana (Mississippi River delta SW of New Orleans)	14
SH	Shamrock Island, Texas (east of Corpus Christi)	15
SM	Smith Island, Florida (south of Tallahassee)	14

* Four pelicans in Lamb's study (Pelicans CH78, CH80, CH81, and SM32) did not provide enough GPS data to analyze and are excluded from the discussion.

[2] TTI researchers independently analyzed the raw GPS data obtained from Lamb's study to allow for a more direct comparison to the data collected for the current TxDOT study.

Italicized text provides a link to the associated map section for the described pelican.

- On average, GPS-tracked pelicans remained active for 265 days with a range of less than one day to 981 days (2.7 years).
- Approximately 50 percent of all pelicans tracked undertook a seasonal migration. The percentage of migrators varied according to capture location. Approximately 90 percent of pelicans captured at the Chester Island colony migrated to winter ranges. Approximately 50 percent of pelicans nesting at the Shamrock colony migrated and approximately 37 percent of pelicans migrated from the Felicity colony.
- The location of winter ranges also varied according to capture location (nest site):
    - Pelicans captured on nests in Florida tended to migrate along the east coast of Florida, with destinations in Tampa, Florida; Saint Petersburg, Florida; and Cuba.
    - Pelicans captured in Texas tended to follow migratory pathways along the Gulf coast to reach overwintering destinations near Brownsville, Texas; the Laguna Madre y Delta del Rio Bravo, Mexico (a large barrier island-protected lagoon approximately 100 km south of Brownsville, Texas); Tampico, Mexico; Tabasco State, Mexico, and the northern coast of the Yucatan Peninsula, Mexico.
        - Pelican CH24 (*Pelican CH24 – Active from May 2013 to April 2015* captured at the Chester colony overwintered in Guatemala (2013), reaching its destination via an overland crossing of the Isthmus of Tehuantepec from the Gulf coast of Mexico (near Veracruz) to the pacific coast of Guatemala3). The pelican repeated this migration the following year (2014).
        - Pelican CH19 (*Pelican CH19 – Active from May 2013 to February 2015*) undertook an unusual 'cross gulf' migration. In June, it moved from its nest site to the Mississippi delta where it stayed until November (2013). In November, it crossed the gulf to the Yucatan peninsula, Mexico and spent the winter there before returning to the Mississippi delta in March (again crossing the gulf). In April, it returned to its nest site on Chester Island. The following year (November 2014) it repeated the same migration. A number of pelicans caught in Texas spent part of their summer in the Mississippi delta.
        - Pelican CH26 (*Pelican CH26 – Active from May 2013 to April 2014*) moved from Texas to the Mississippi delta in July, where it remained until November 2013 before crossing the gulf to the Yucatan peninsula, Mexico where it spent the winter. In March, the pelican migrated (cross gulf) to St. Petersburg, Florida before expiring.

[3] Note that one pelican in the current (TxDOT) study attempted this crossing.

- Pelicans captured at nest sites in the Mississippi delta undertook the most varied migrations. Many pelicans remained in the vicinity of the delta throughout the year. Migrating individuals tended to take paths east or west, for example:
    - Pelican FE06 (*Pelican FE06 – Active from April 2013 to March 2014*) migrated from the Mississippi delta west along the gulf coast to an over winter site near Tampico, Mexico. In February, it returned to the delta, but may have taken a cross-gulf path (rather than following the coast).
    - Pelican FE73 (*Pelican FE73 – Active from April 2014 to February 2016*) migrated to Tampico, Mexico in September 2014 but followed a western gulf coastal path. It returned to the delta in March 2015 (again following the Gulf coast). It repeated the same migration the following year.
    - Pelican FE75 (*Pelican FE75 – Active from April 2014 to August 2015*) migrated from the delta to the Yucatan peninsula, Mexico by crossing the gulf (November 2014). It returned in March (using a cross-gulf path).
    - Pelican FE77 (*Pelican FE77 – Active from April 2014 to November 2015*) undertook a short distance migration spending the 2014 winter south-southwest of Houston, Texas, before returning to the delta in March 2015.

- Nineteen pelicans visited the BGWC study site. In some cases, pelicans just passed through such that only one or two GPS points were recorded in the BGWC study area. In other cases, pelicans passed through and stayed one or two nights (usually on the Laguna Madre roost island). In a few cases the pelicans spent more than 5 days in the BGWC study site. The following provides a summary of activities within the BGWC:
    - Pelican CH18 (*Pelican CH18 – Active from May 2013 to April 2014*) moved through the BGWC on August 19, 2013 on its way to its overwinter range near La Pesca, Mexico, (approximately 250 km south of the BGWC). The pelican undertook a subsequent southward migration in December 2013 to just south of Veracruz, Mexico (approximately 800 km south of the BGWC). On its return trip, it was likely to have passed through the BGWC (approximately March 2014) but GPS communication failed until the pelican reached Matagorda Bay, Texas in April 2014.
    - Pelican CH20 (*Pelican CH20 – Active from May 2013 to January 2014*) spent three days in the BGWC (June 24-26, 2013). The pelican spent the summer of 2013 just south of the BGWC in the Laguna Madre y Delta del Rio Bravo. It remained in this area through summer and winter and expired January 2014.
    - Pelican CH24 (*Pelican CH24 – Active from May 2013 to April 2015*) passed through the BGWC on November 6, 2013 on its southbound migration to the coast of Guatemala. Prior to moving south, it moved north to the Mississippi delta (June 2013) where it remained until November 2013. On its northern migration, CH24 passed back through the BGWC on March 29-30, 2014) on its way back to

Chester Island, Texas. The following season, a similar migratory pattern occurred, and it passed through on November 13, 2014 (southbound), and April 4, 2015 (northbound).

- Pelican CH25 (*Pelican CH25 – Active from May 2013 to January 2016*) may have passed through the BGWC in November to December but only recorded locations intermittently. It may have spent some time overwintering near Port Mansfield, Texas and at Tampico, Mexico.
- Pelican CH53 (*Pelican CH53 – Active from June 2013 to September 2014*) passed through the BGWC on Jul 8-9, 2013 roosting in the Bahia Grande. CH53 spent July – March 2014 moving between the Laguna Madre y Delta del Rio Bravo and Tampico, Mexico. On its northern migration it passed through on April 6, 2014. In June 2014 it returned to the Laguna Madre y Delta del Rio Bravo and passed through the BGWC on June 24 (without stopping).
- Pelican FE06 (*Pelican FE06 – Active from April 2013 to March 2014*) passed through the BGWC on December 28, 2013 during its southward migration from the Mississippi delta to Tampico, Mexico. On its return journey it may have returned to its nest site in the Mississippi delta by crossing the Gulf of Mexico rather than following the coast (alternatively, GPS locations may not have been recorded).
- Pelican FE73 (*Pelican FE73 – Active from April 2014 to February 2016*) spent September 1-2, 2014 in the BGWC during its southern migration to Tampico, Mexico, where it overwintered until March 2015. On its northbound trip it passed through on March 25, 2015. The following season, it repeated the trip and passed through the BGWC on August 25, 2015 (southbound) before expiring in Tampico, Mexico in February 2016.
- Pelican RA60 (*Pelican RA60 – Active from July 2013 to January 2014*) passed through the BGWC on December 23, 2013 during its southward migration to Tampico, Mexico. The pelican expired in January 2014 at Tampico, Mexico.
- Pelican RA69 (*Pelican RA69 - Active from April 2014 to May 2015*) spent October 6-7, 2014 in the BGWC and roosted on the Laguna Madre roost island. Between October and November 2014, it spent time in the northern Laguna Madre y Delta del Rio Bravo, before migrating further south to Tampico, Mexico in December 2014. On its northern trip from Tampico, Mexico to its original nest site it passed through the BGWC on March 19, 2015.
- Pelican RA71 (*Pelican RA71 - Active from April 2014 to June 2015*) began a southern migration from the Mississippi delta to Guatemala in November 2014. It passed through the BGWC on November 18-19 spending one night on the Laguna Madre roost island. On its return (northbound migration) it passed through the study area on April 6, 2015.

- After breeding (beginning May 2013), Pelican SH14 (*Pelican SH14 - Active from May 2013 to December 2013*) moved up and down the Texas coast between Corpus Christi, and Houston, Texas. In August, it moved to the northern end of the Laguna Madre y Delta del Rio Bravo and during September and November transitioned in and out of the BGWC study area. In November 2013, SH14 moved further south to La Pesca, Mexico before expiring in December 2013. The GPS record shows that SH14 passed through the BGWC study area on August 4, 2013 and spent seven days in the BGWC during September 2013, three days during October 2013, and three days during November 2013 (Figure 54).
- Pelican SH15 (*Pelican SH15 - Active from May 2013 to June 2013*) passed through the BGWC on June 3, 2013. The pelican appeared to be moving towards the northern end of the Laguna Madre y Delta del Rio Bravo before expiring in June 2013.
- Pelican SH16 (*Pelican SH16 - Active from May 2013 to April 2014*) spent 6 days in the Bahia Grande during June 2013. Pelican SH16 spent early summer at the northern end of the Laguna Madre y Delta del Rio Bravo before moving further south to the Laguna de Temiahua just south of Tampico, Mexico, where it overwintered. In March, SH16 begun its northern migration back to Corpus Christi, and passed through the BGWC on late March 2014.
- Pelican SH27 (*Pelican SH27 - Active from May 2013 to January 2014*) began a southward migration on July 01, 2013 from Houston to the upper Laguna Madre, Texas, just north of the BGWC study site. Between November 2013 to January 2014 (its month of expiry) it spent a total of 55 days in the BGWC, moving to and from the upper Laguna Madre (Figure 55).
- Pelican SH28 (*Pelican SH28 - Active from May 2013 to January 2014*) remained close to the Shamrock nest colony from May 2013 to December 2013. In December, SH28 migrated to the northern end of the Laguna Madre y Delta del Rio Bravo where it remained before expiring in January 2014. It passed through the BGWC study area on December 26, 2013.
- In June 2013, pelican SH29 (*Pelican SH29 - Active from May 2013 to December 2013*) moved from close to Matagorda Bay, Texas to the southern end of the Laguna Madre y Delta del Rio Bravo where it stayed until December 2013 (when it expired). Pelican SH29 passed through the study area on Jun 25-26, 2013 and roosted on a pier at the tip of South Padre Island.
- In July 2014 pelican SH85 (*Pelican SH85 - Active from June 2014 to November 2014*) moved from Corpus Christi, Texas to the southern end of the Laguna Madre y Delta del Rio Bravo, where it stayed through August 2014. During this southern trip, it passed through the BGWC on July 3, 2014. In September 2014, it moved northwards towards the upper Laguna Madre, and spent considerable time in the study area between September 2014 and October 2014 where it roosted in

both the Bahia Grande and the Laguna Madre roost sites. In November 2014 it moved away from the BGWC study area and spent time in the Laguna Madre y Delta del Rio Bravo before expiring.

- Pelican SH86 (*Pelican SH86 - Active from May 2014 to July 2014*) spent May 2014 and most of June 2014 close to Corpus Christi, Texas. In late June it migrated to the BGWC and spent June 25-July 26, 2014 in the area where it roosted in both the Laguna Madre and Bahia Grande roost islands.
- Pelican SH87 (*Pelican SH87 - Active from May 2014 to November 2014*) remained close to its Corpus Christi nest site between May 2014 and July 2014. In August it moved to the BGWC and spent August 05, 2014 to November 26, 2014 in the BGWC, roosting on both the Bahia Grande and Laguna Madre roost sites (Figure 56).

- Following breeding (typically mid-June), many pelicans from Texas nesting sites moved north to the Mississippi delta to spend the remainder of the summer. Many of these pelicans then migrated south between November to December (one pelican migrated in June), either across the Gulf of Mexico to the Yucatan Peninsula, or along the Gulf Coast to the BGWC study area and further south into Mexico. In Figure 54, Figure 55, and Figure 56, line color indicates individual days of the pelican's movements.

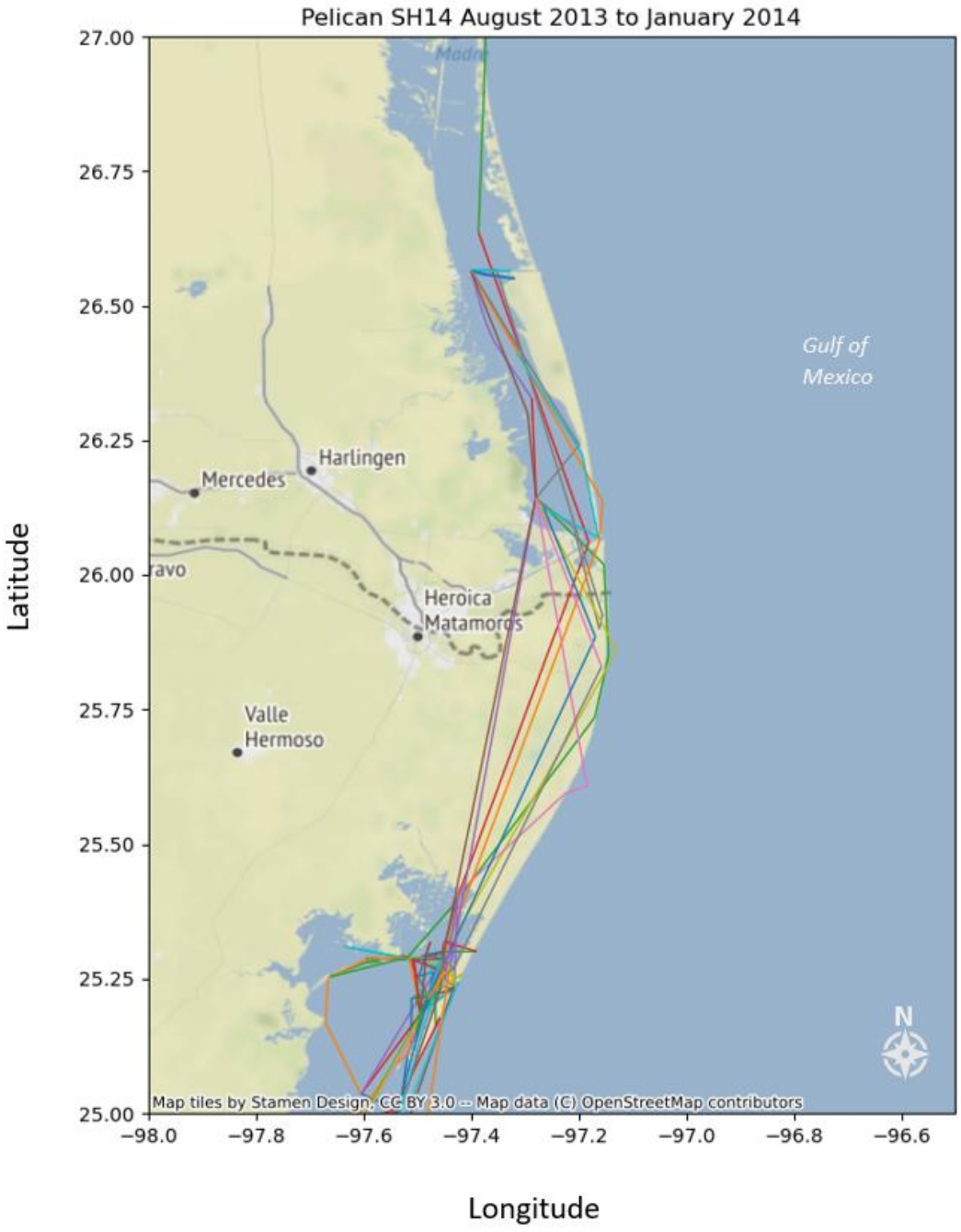

Figure 54. Daily movements of Pelican SH14 in the BGWC study area.

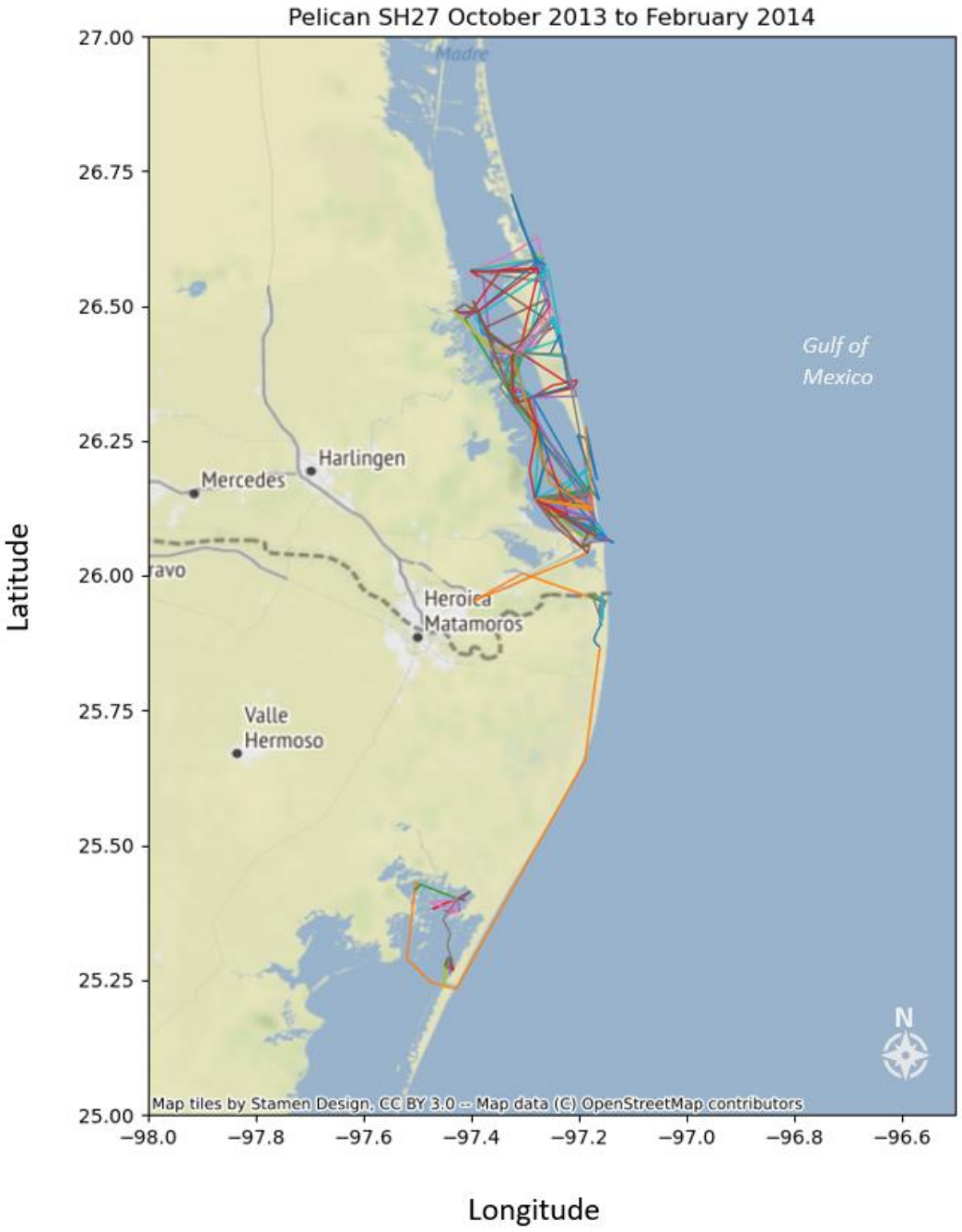

Figure 55. Daily movements of Pelican SH27 in the BGWC study area.

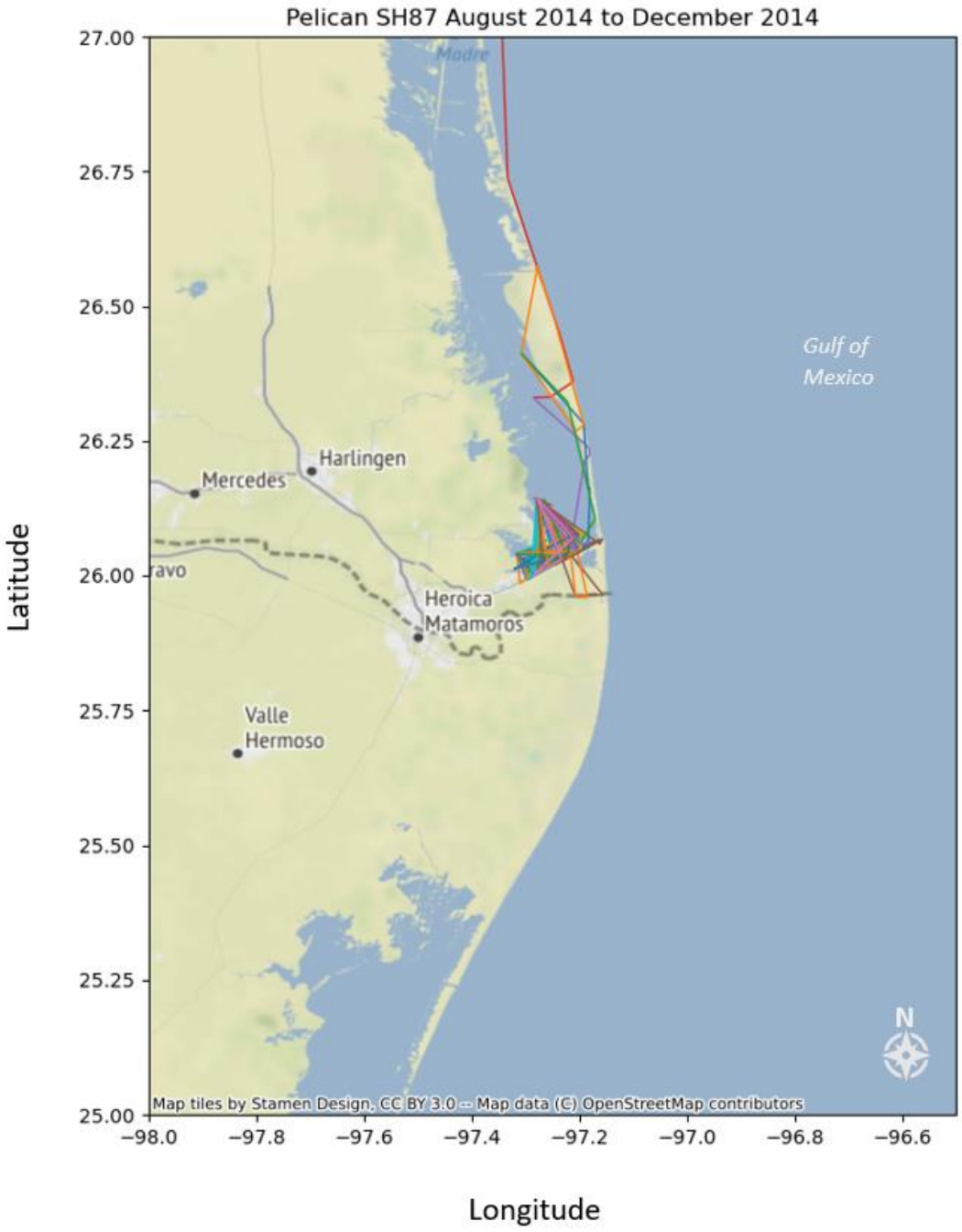

Figure 56. Daily movements of Pelican SH87 in the BGWC study area.

MOVEMENTS OF INDIVIDUAL PELICANS

The following maps illustrate the individual pelican movements obtained in the GPS data collected for Lamb's study. TTI researchers used a custom Python code to automatically generate the maps presented in this section from the GPS data. The red line in each map indicates the individual pelican's movement (labeled in the left map of **Figure 57**). The black box indicates TxDOT's BGWC study site. The scale of each map varies based on the range of the individual pelican. All maps are oriented with north at the top.

Pelican AU39 – Active from June 2013 to February 2014

Capture Date:	June 15, 2013
Capture Location:	Audubon (FL)
Sex:	M
Status:	rearing chick
Days Active:	250

Figure 57 - Movements of AU39 between June 15, 2013 and July 31, 2013. Data from Lamb (2016). Red lines indicate pelican movement.

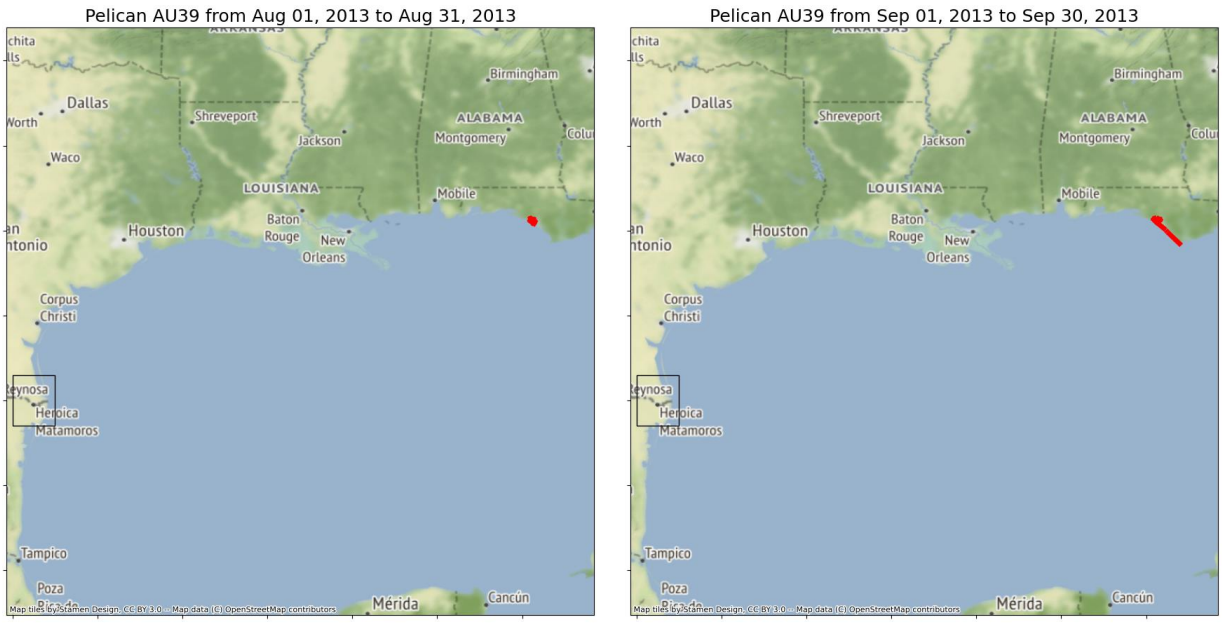

Figure 58 - Movements of AU39 between August 01, 2013 and September 30, 2013. Data from Lamb (2016)

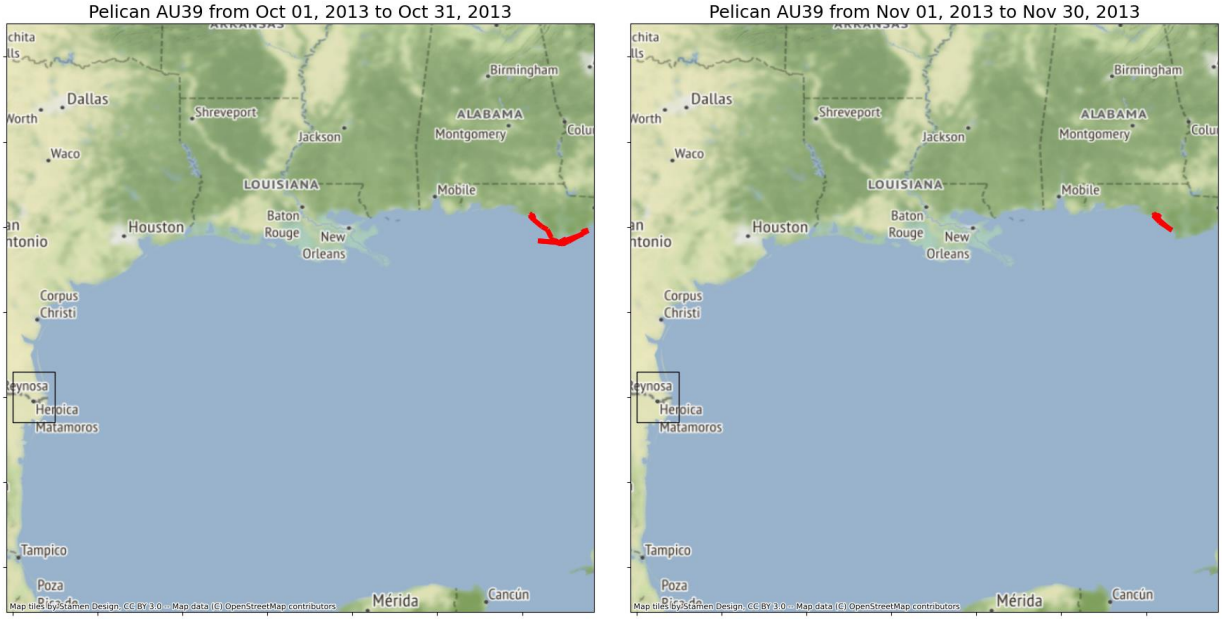

Figure 59 - Movements of AU39 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

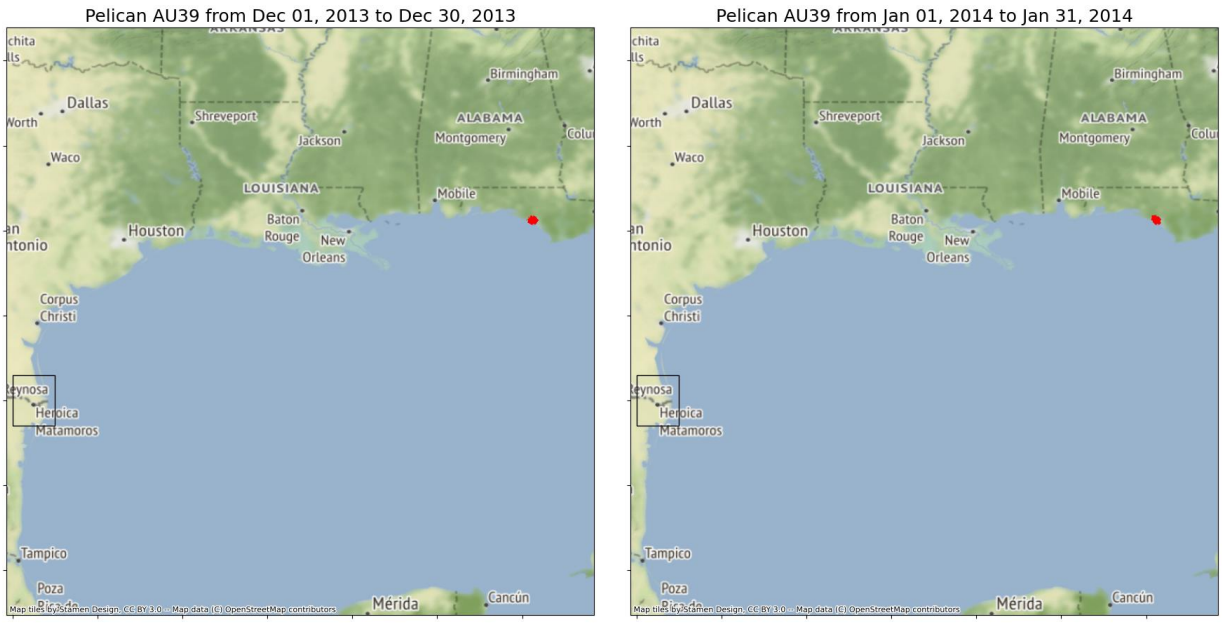

Figure 60 - Movements of AU39 between December 01, 2013 and January 31, 2014. Data from Lamb (2016)

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Pelican AU40 – Active from June 2013 to November 2014

Capture Date: June 15, 2013
Capture Location: Audubon (FL)
Sex: M
Status: rearing chick
Days Active: 511

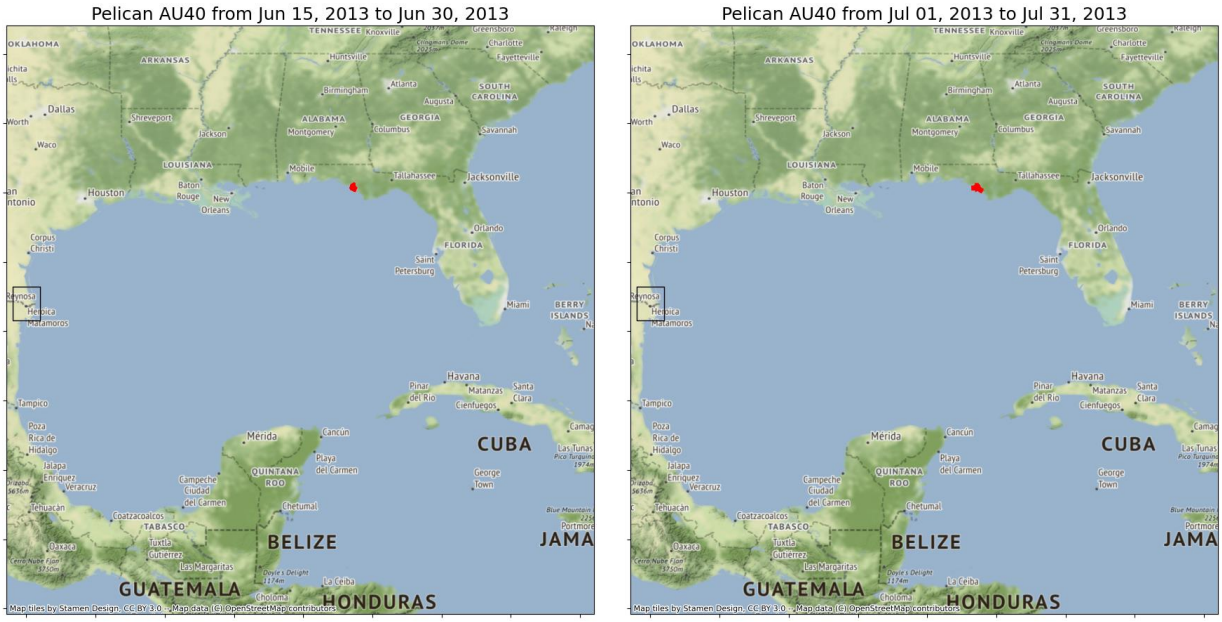


Figure 61 - Movements of AU40 between June 15, 2013 and July 31, 2013. Data from Lamb (2016)

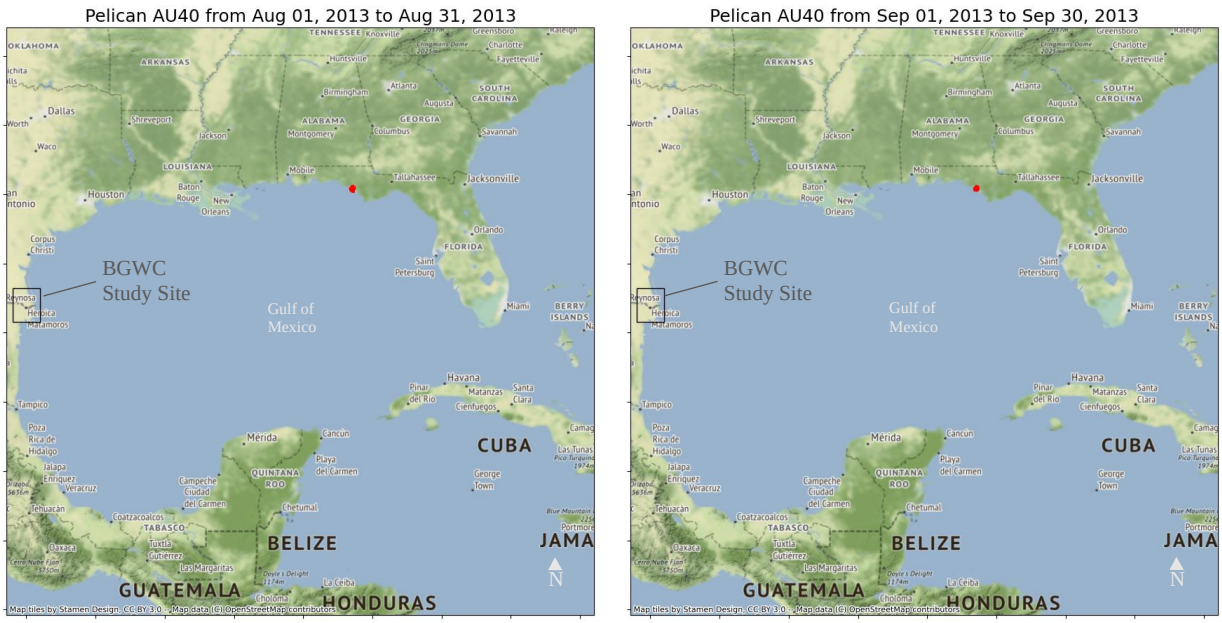


Figure 62 - Movements of AU40 between August 01, 2013 and September 30, 2013. Data from Lamb (2016)

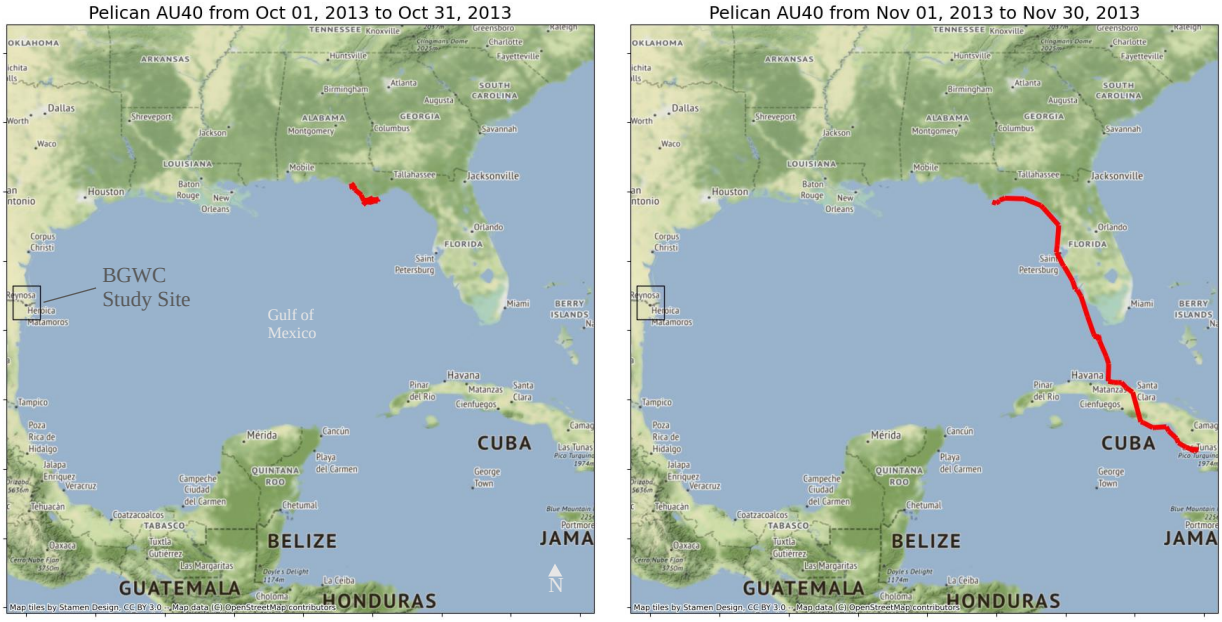


Figure 63 - Movements of AU40 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

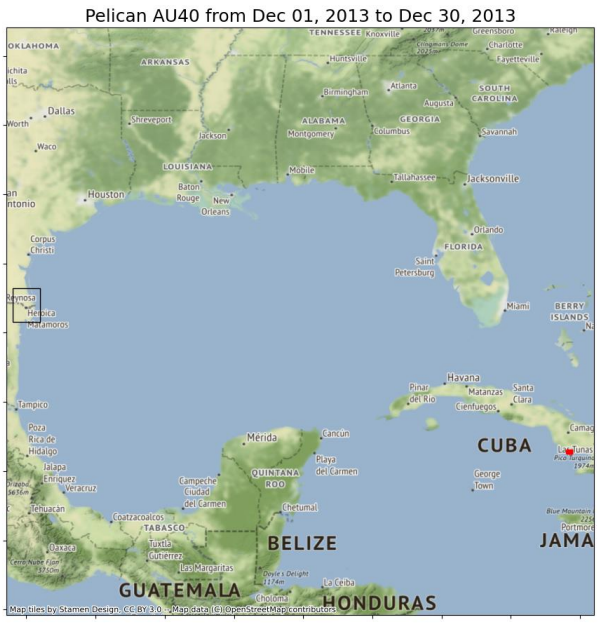
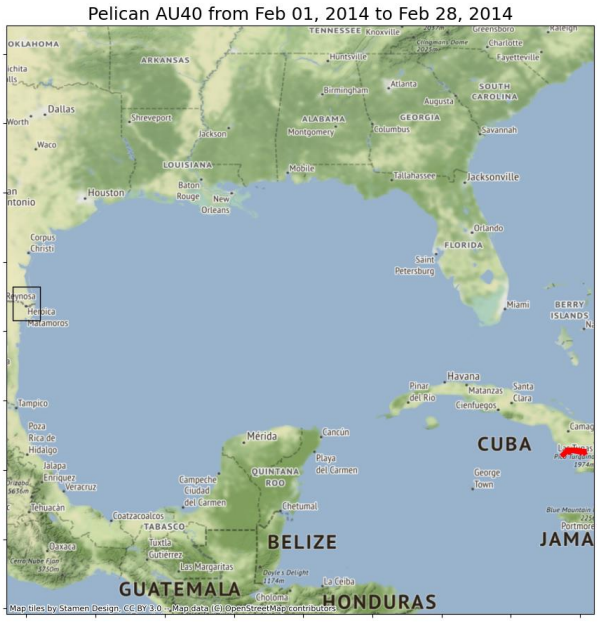


Figure 64 - Movements of AU40 between December 01, 2013 and January 31, 2014. Data from Lamb (2016)



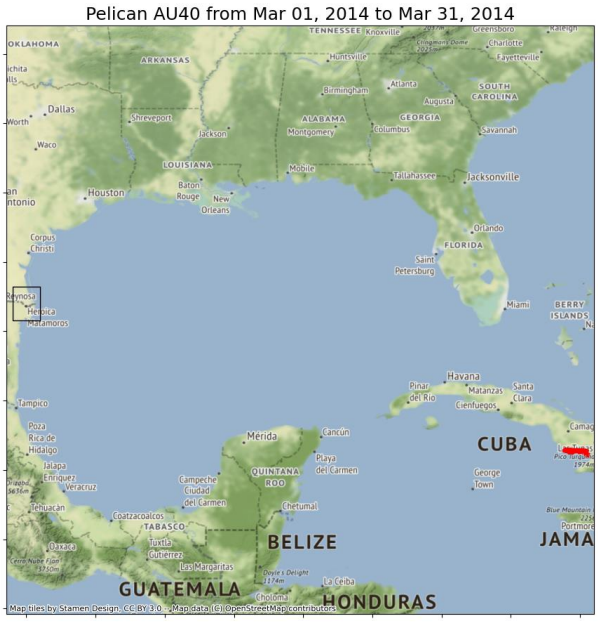


Figure 65 - Movements of AU40 between February 01, 2014 and March 31, 2014. Data from Lamb (2016)

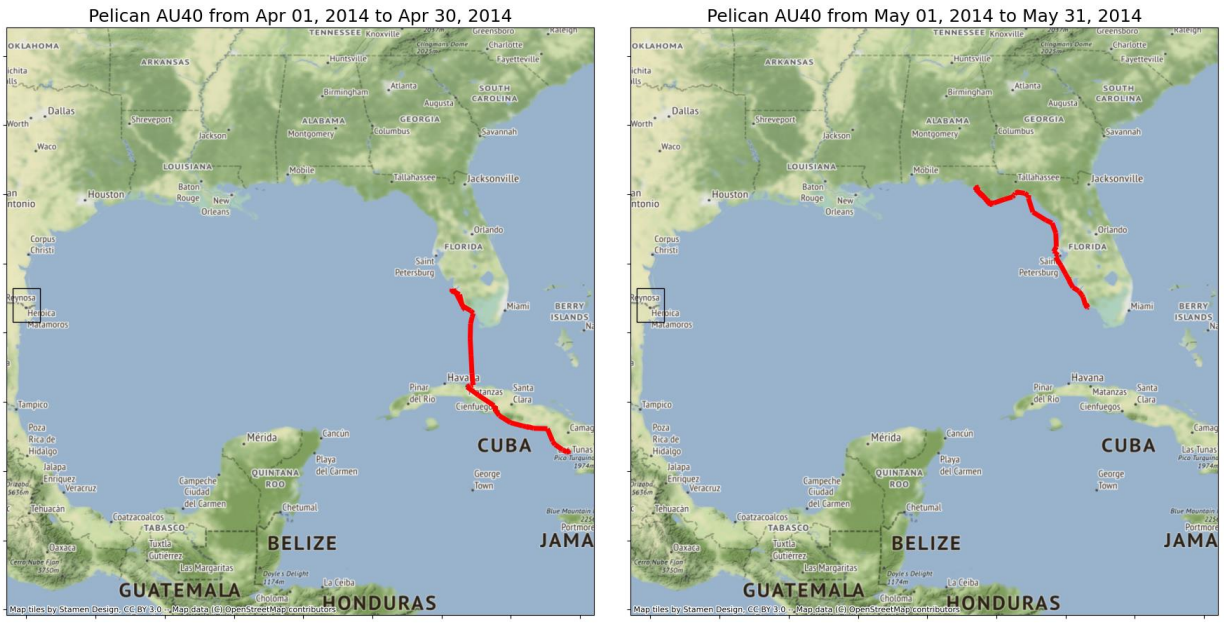


Figure 66 - Movements of AU40 between April 01, 2014 and May 31, 2014. Data from Lamb (2016)

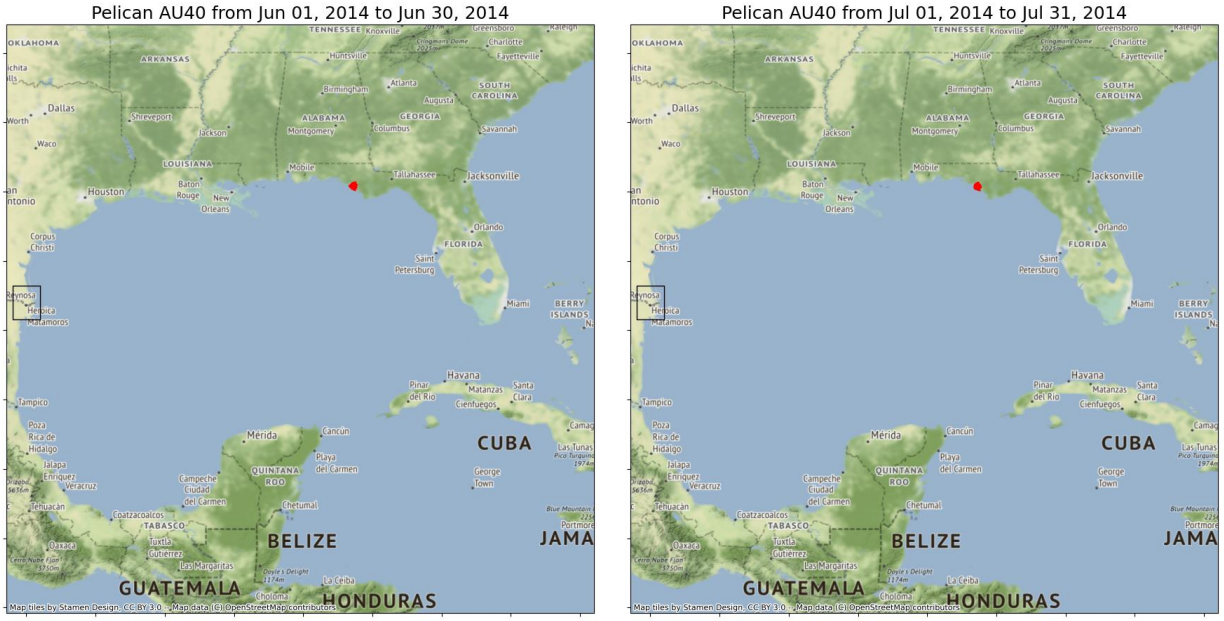
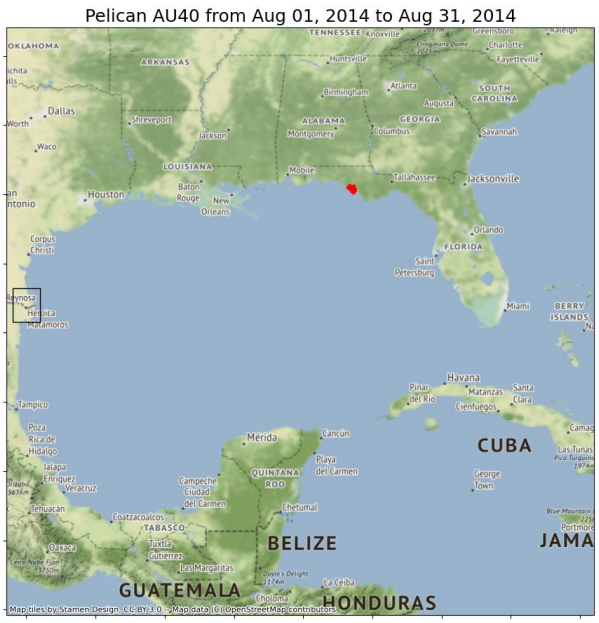


Figure 67 - Movements of AU40 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)



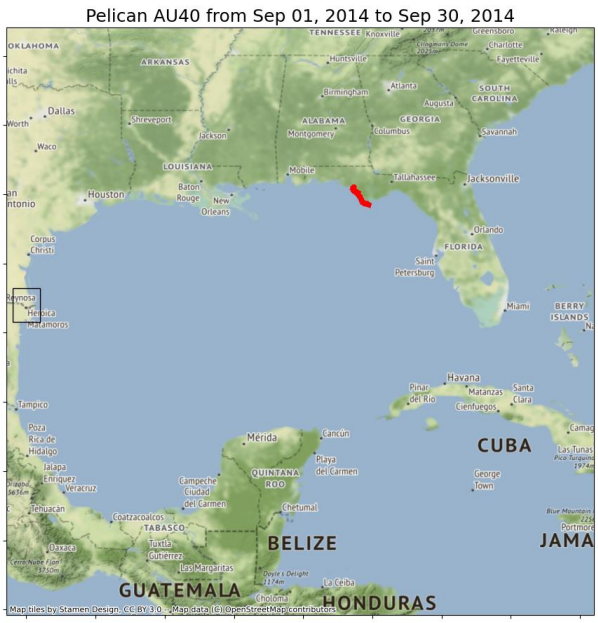


Figure 68 - Movements of AU40 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

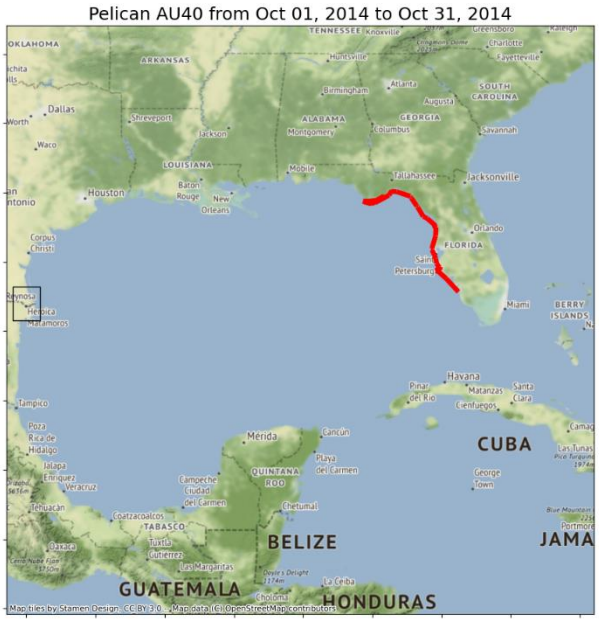


Figure 69 - Movements of AU40 between October 01, 2014 and October 31, 2014. Data from Lamb (2016)

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Pelican AU41 – Active from June 2013 to January 2014

Capture Date: June 15, 2013
Capture Location: Audubon (FL)
Sex: F
Status: rearing chick
Days Active: 203

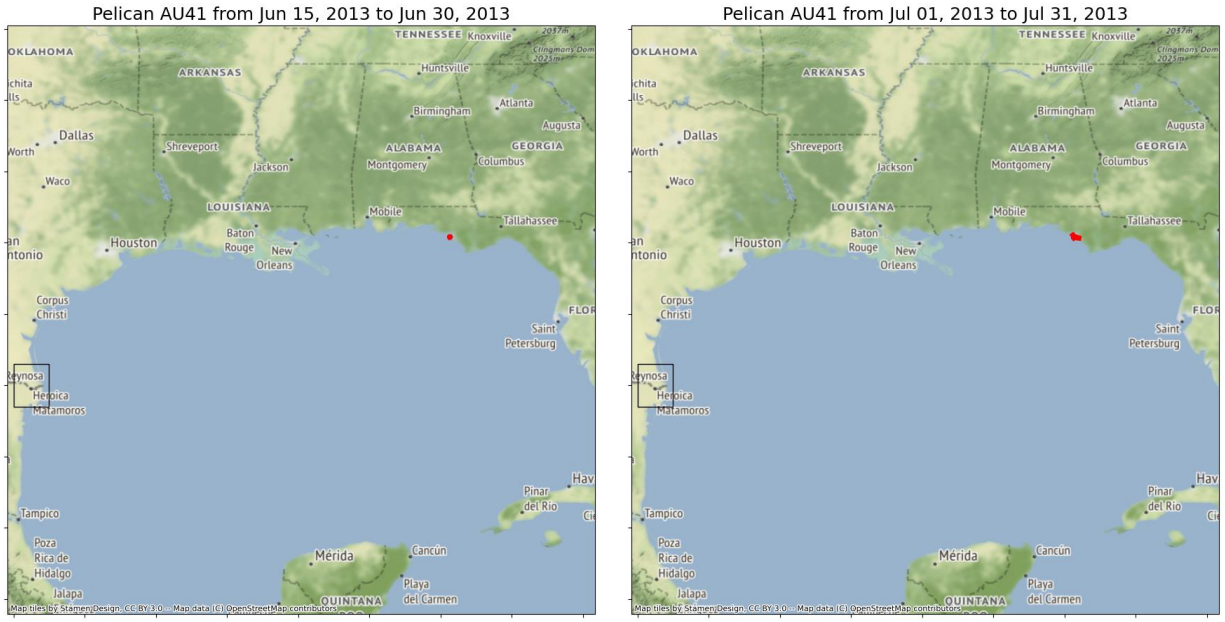

Figure 70 - Movements of AU41 between June 15, 2013 and July 31, 2013. Data from Lamb (2016)

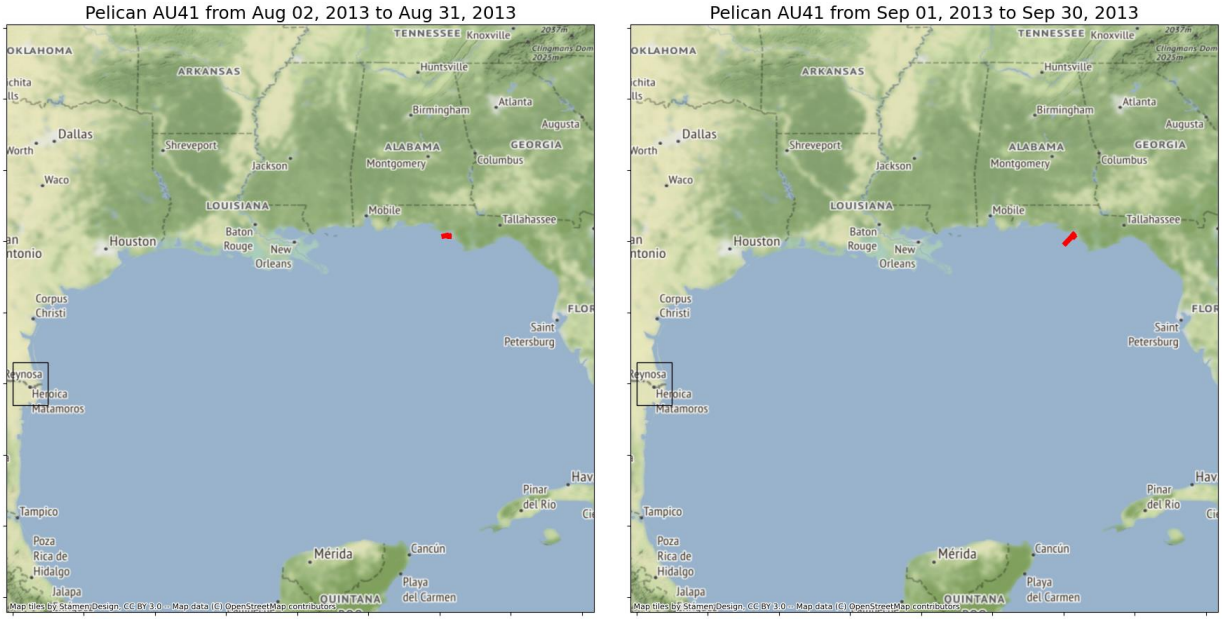

Figure 71 - Movements of AU41 between August 02, 2013 and September 30, 2013. Data from Lamb (2016)

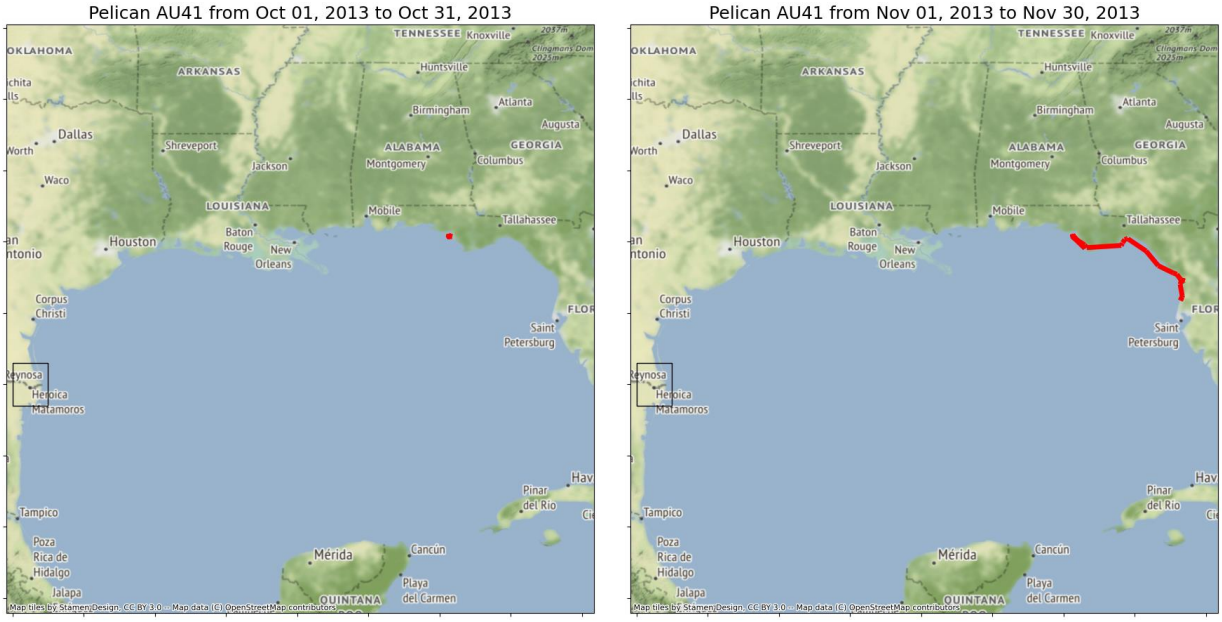

Figure 72 - Movements of AU41 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

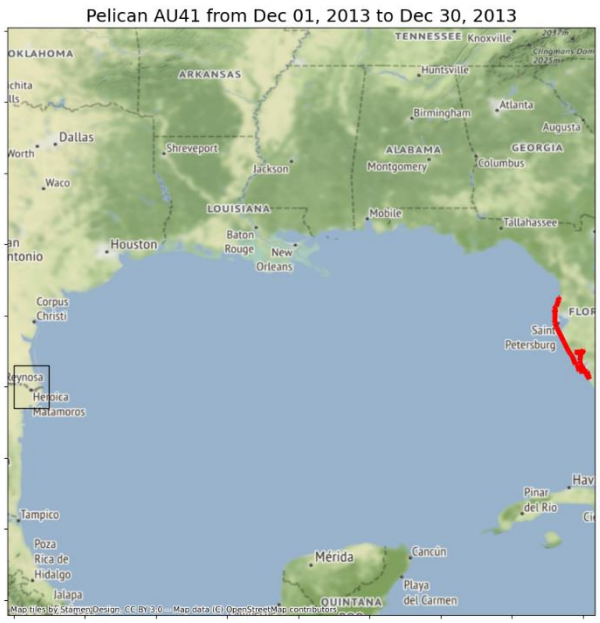

Figure 73 - Movements of AU41 between December 01, 2013 and December 30, 2013. Data from Lamb (2016)

(Back to *Summary of Seasonal Movements*)

Pelican AU42 – Active from June 2013 to December 2013

Capture Date: June 15, 2013
Capture Location: Audubon (FL)
Sex: F
Status: rearing chick
Days Active: 197

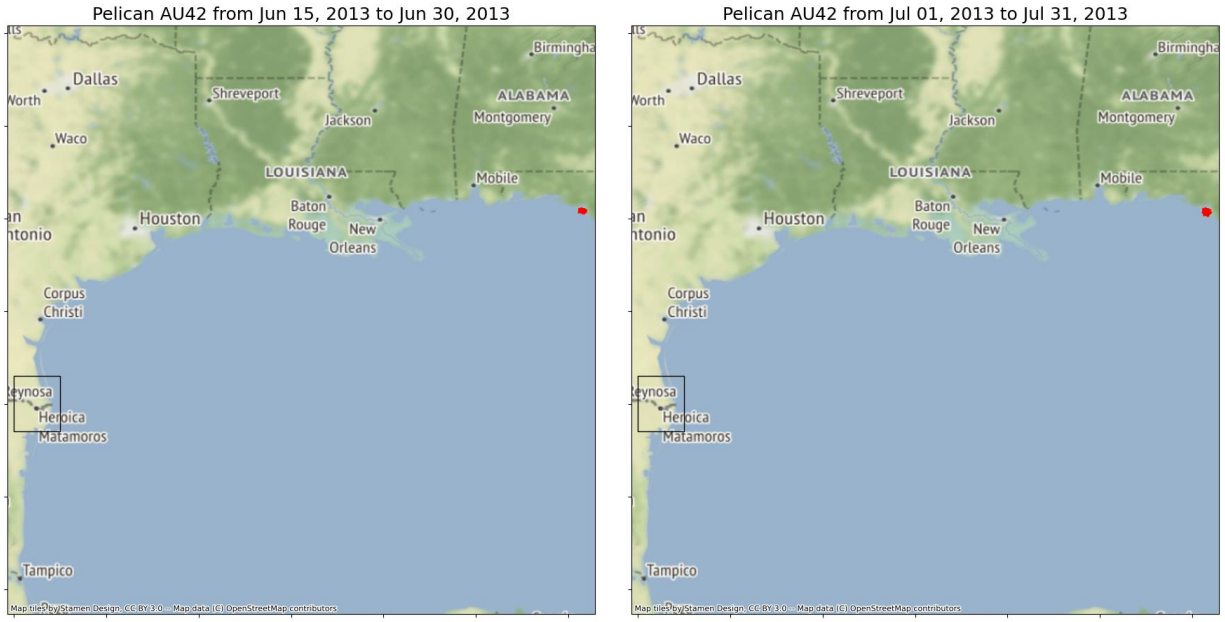

Figure 74 - Movements of AU42 between June 15, 2013 and July 31, 2013. Data from Lamb (2016)

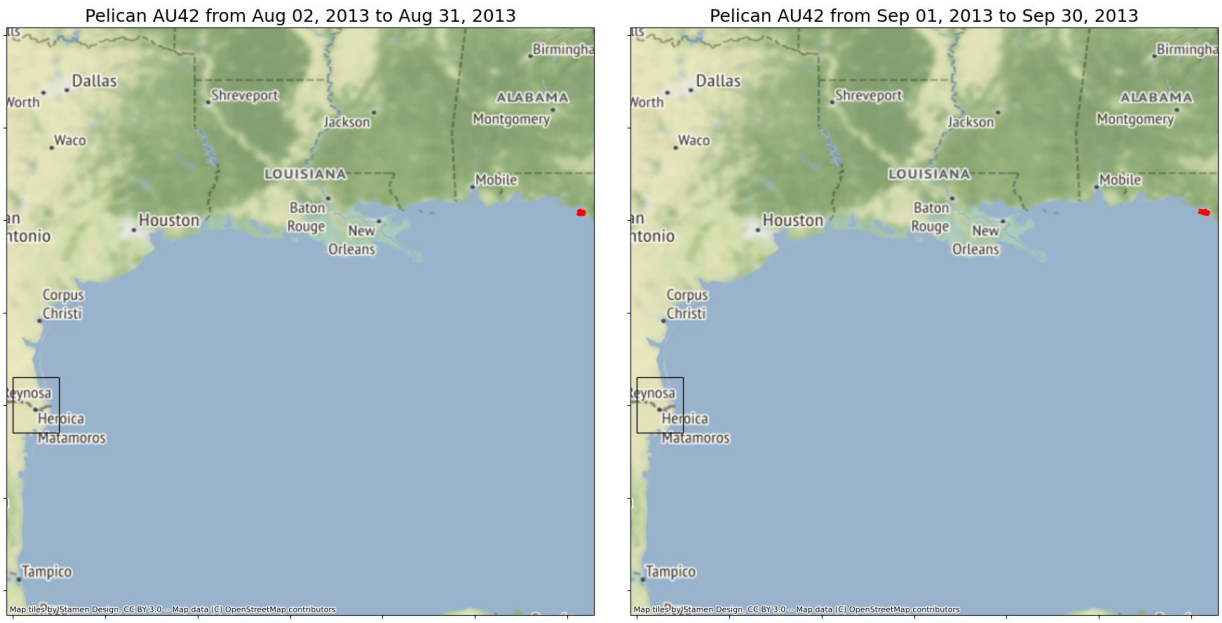

Figure 75 - Movements of AU42 between August 02, 2013 and September 30, 2013. Data from Lamb (2016)

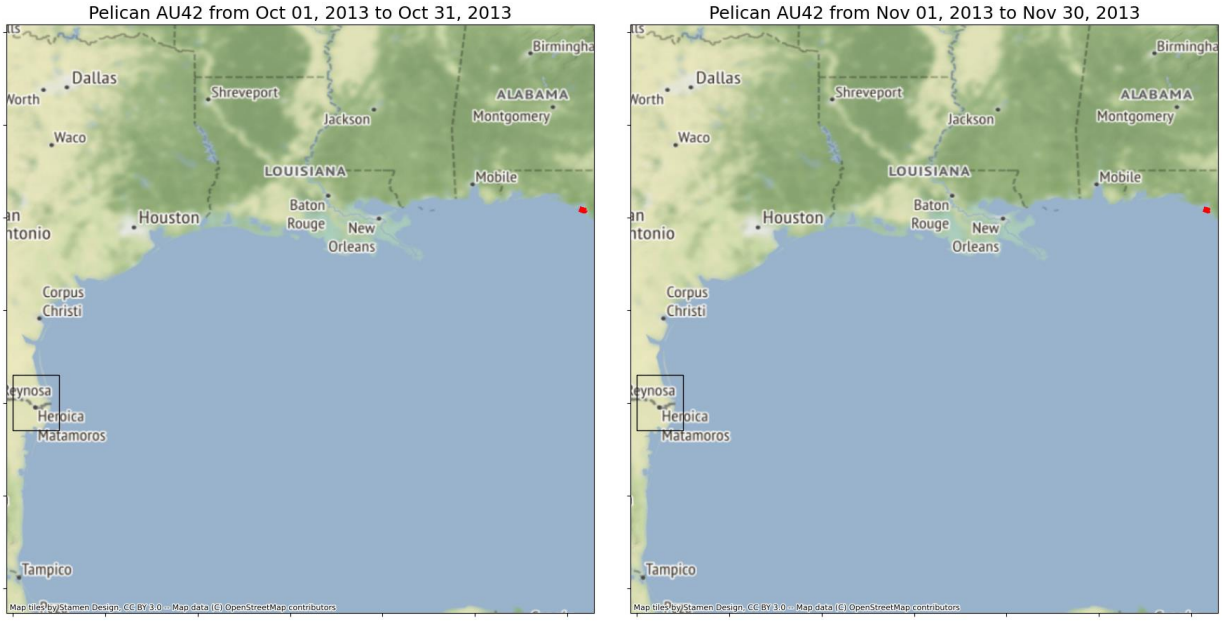

Figure 76 - Movements of AU42 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

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Pelican AU43 – Active from June 2013 to March 2014

Capture Date: June 15, 2013
Capture Location: Audubon (FL)
Sex: F
Status: rearing chick
Days Active: 266

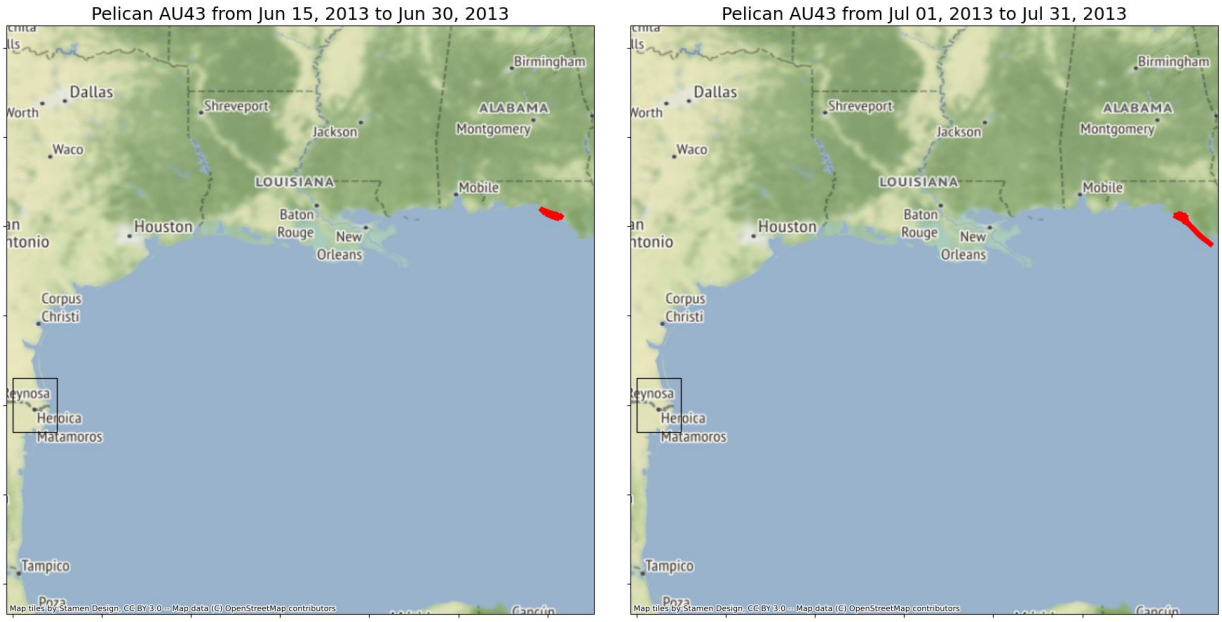

Figure 77 - Movements of AU43 between June 15, 2013 and July 31, 2013. Data from Lamb (2016)

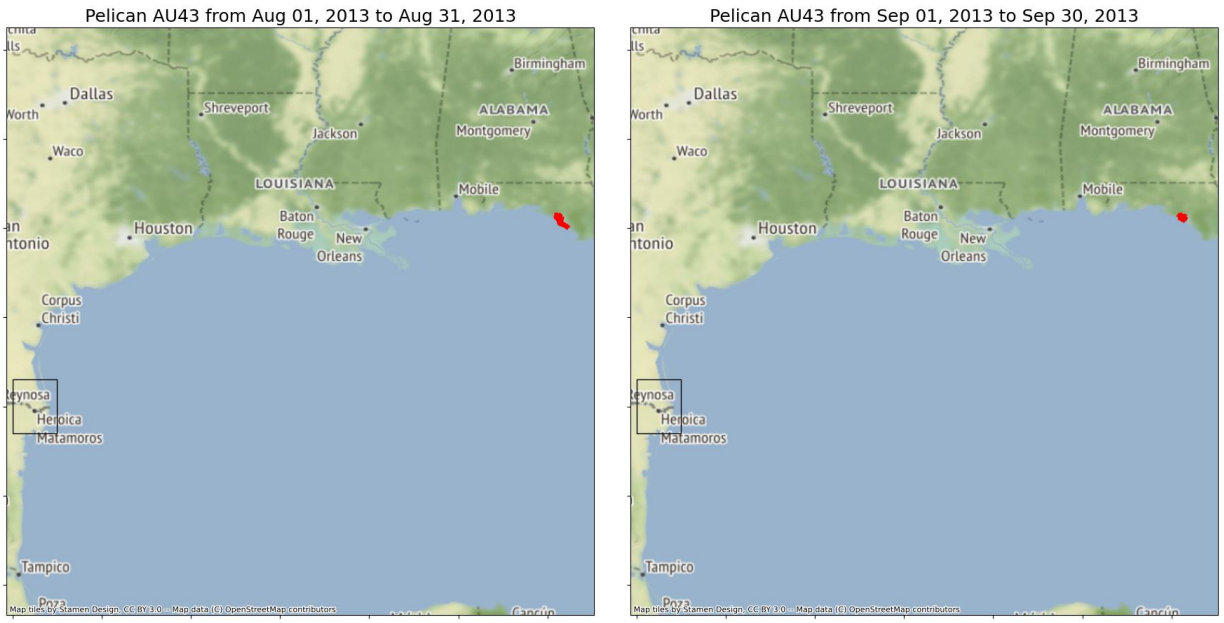

Figure 78 - Movements of AU43 between August 01, 2013 and September 30, 2013. Data from Lamb (2016)

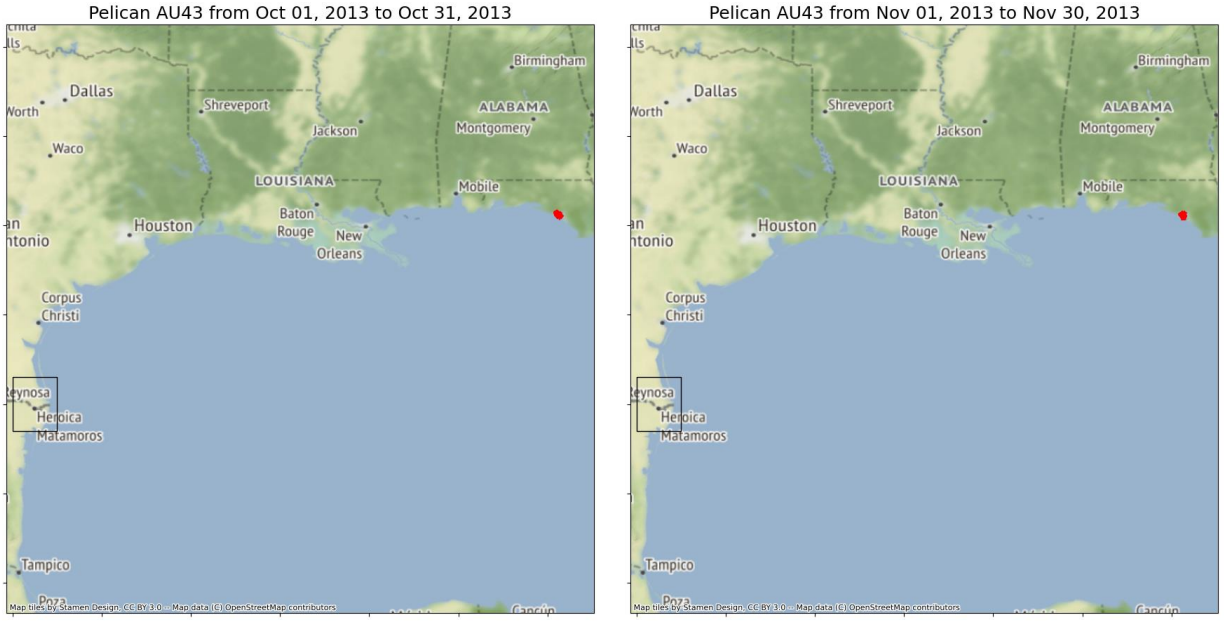

Figure 79 - Movements of AU43 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

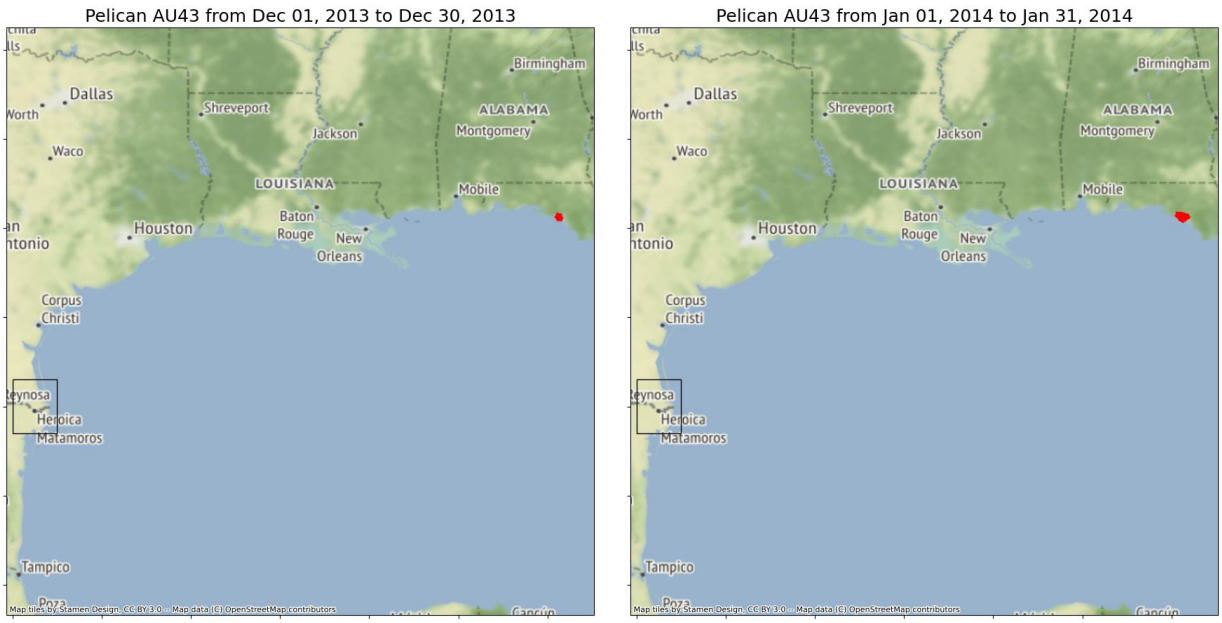

Figure 80 - Movements of AU43 between December 01, 2013 and January 31, 2014. Data from Lamb (2016)

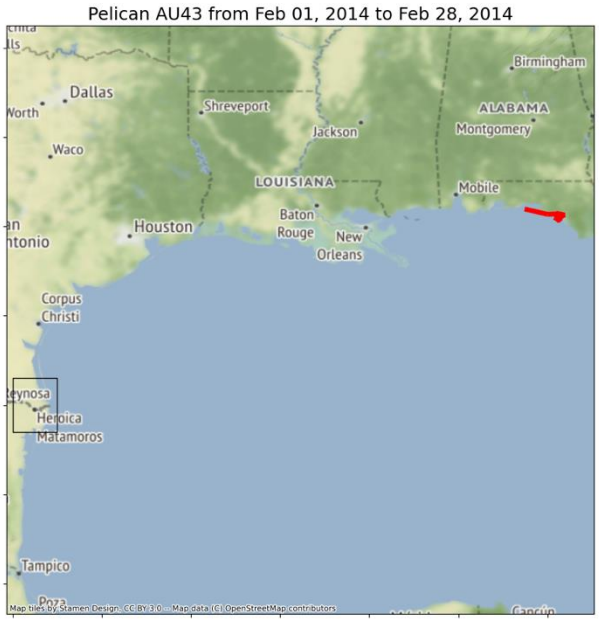

Figure 81 - Movements of AU43 between February 01, 2014 and February 28, 2014. Data from Lamb (2016)

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Pelican AU44 – Active from June 2013 to September 2014

Capture Date: June 15, 2013
Capture Location: Audubon (FL)
Sex: M
Status: rearing chick
Days Active: 442

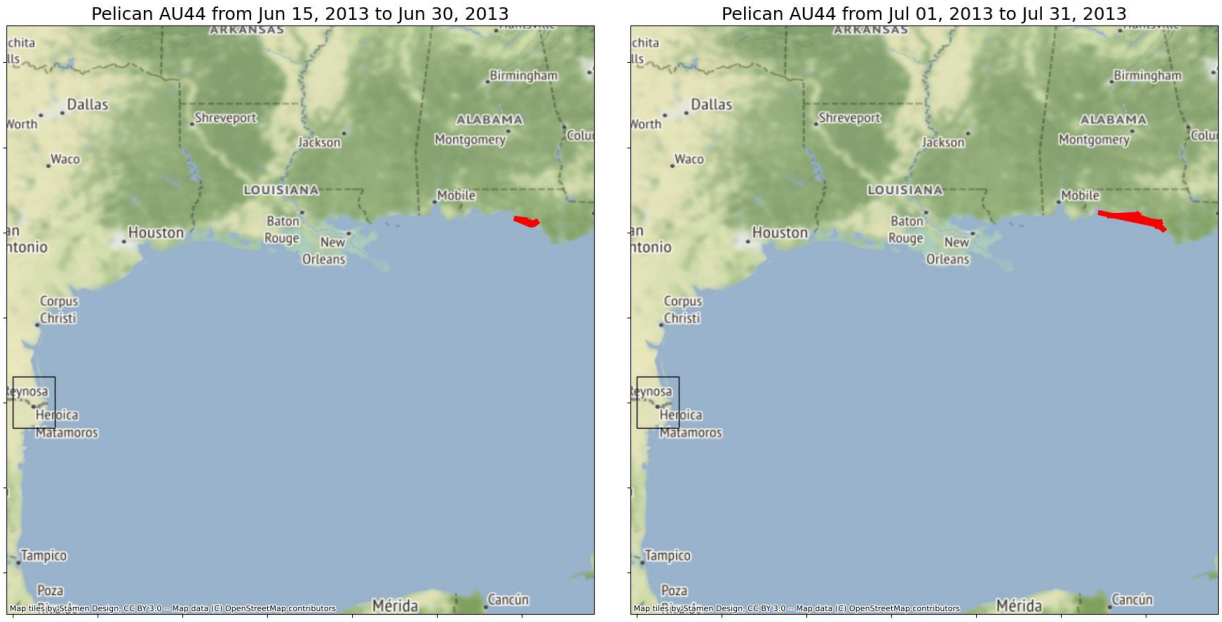

Figure 82 - Movements of AU44 between June 15, 2013 and July 31, 2013. Data from Lamb (2016)

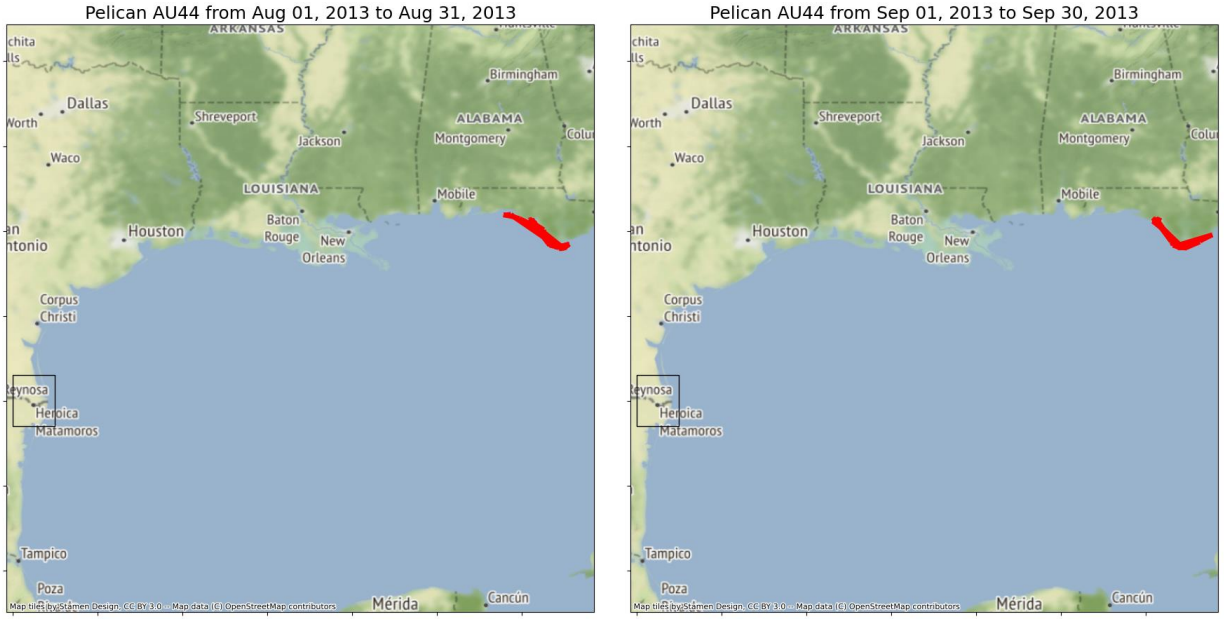

Figure 83 - Movements of AU44 between August 01, 2013 and September 30, 2013. Data from Lamb (2016)

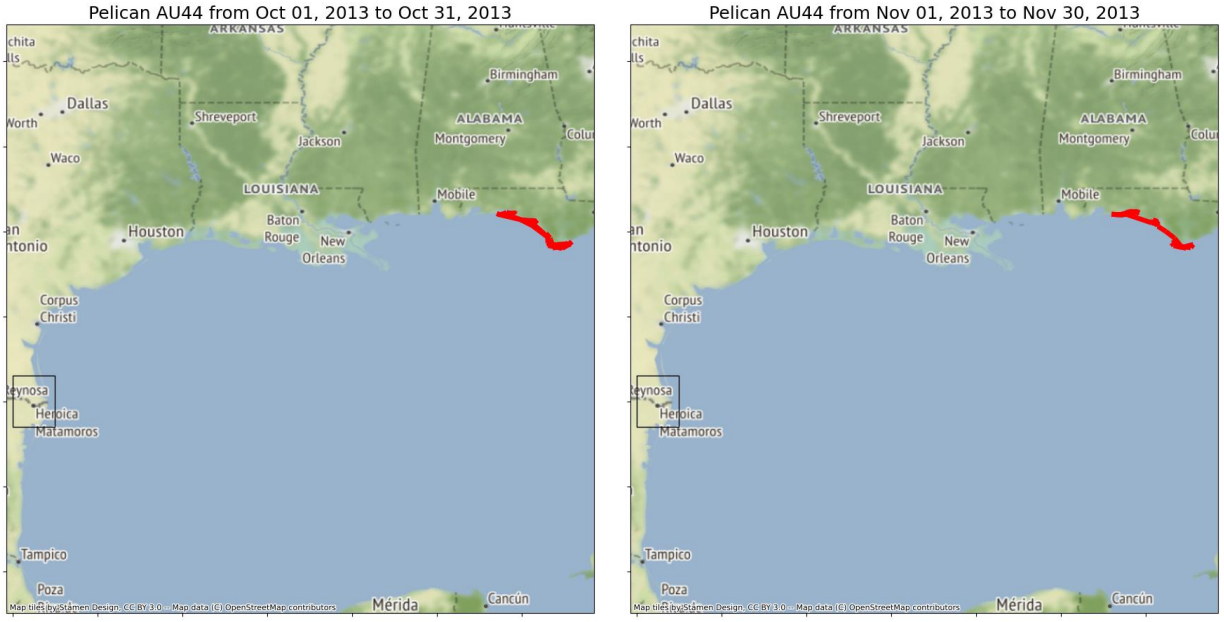

Figure 84 - Movements of AU44 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

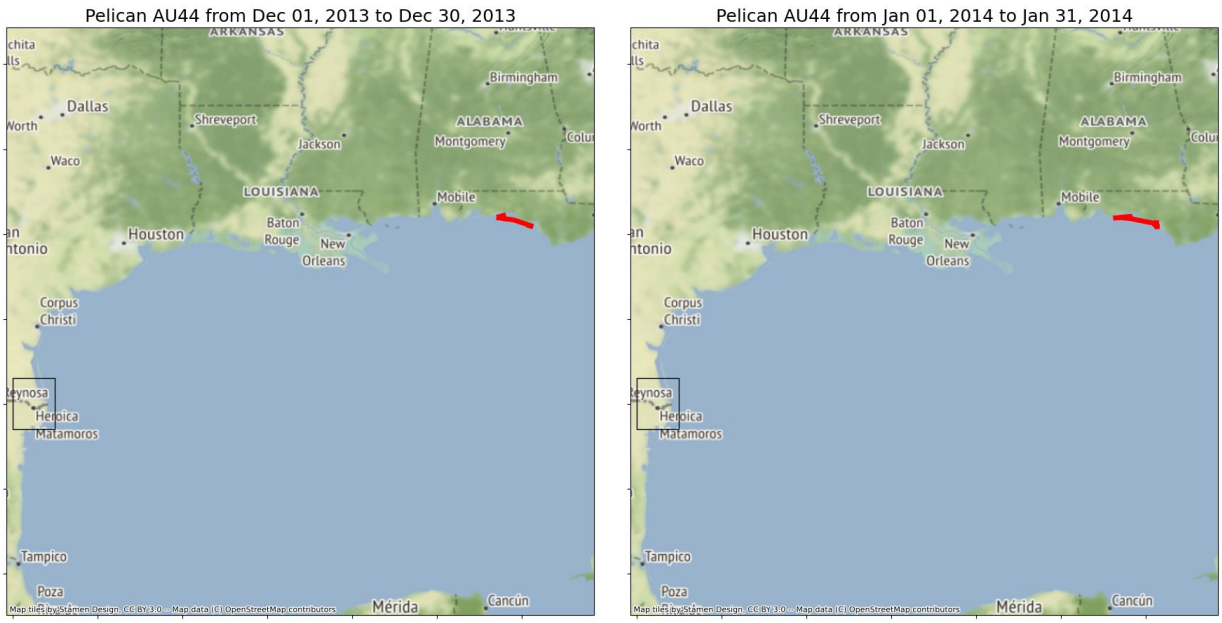

Figure 85 - Movements of AU44 between December 01, 2013 and January 31, 2014. Data from Lamb (2016)

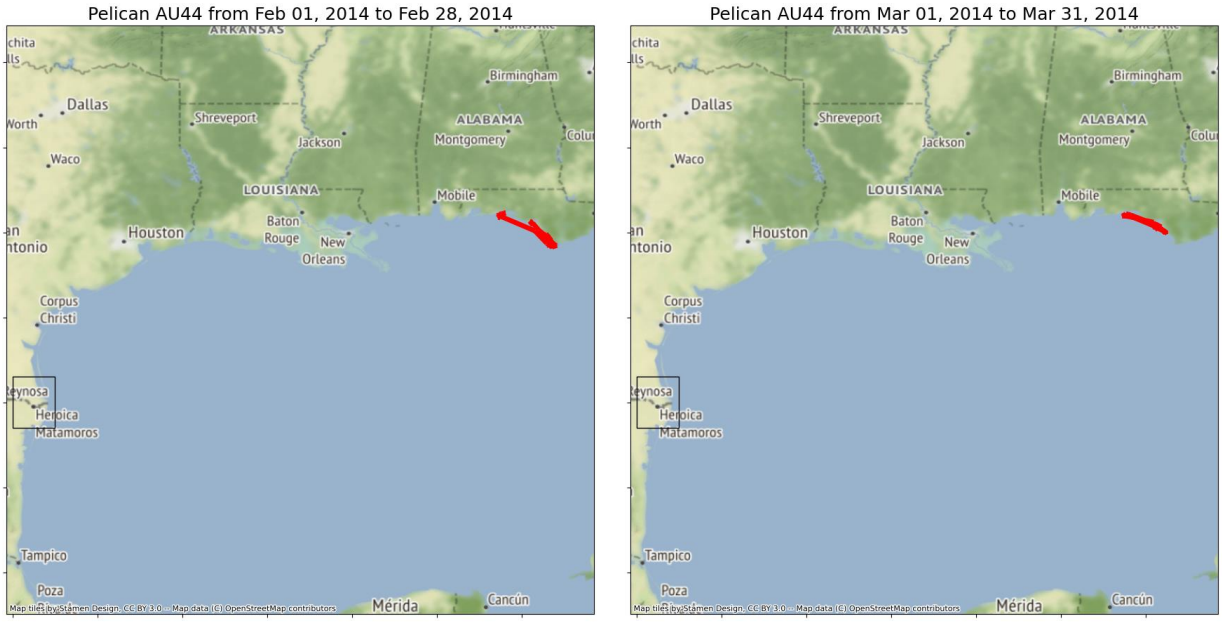

Figure 86 - Movements of AU44 between February 01, 2014 and March 31, 2014. Data from Lamb (2016)

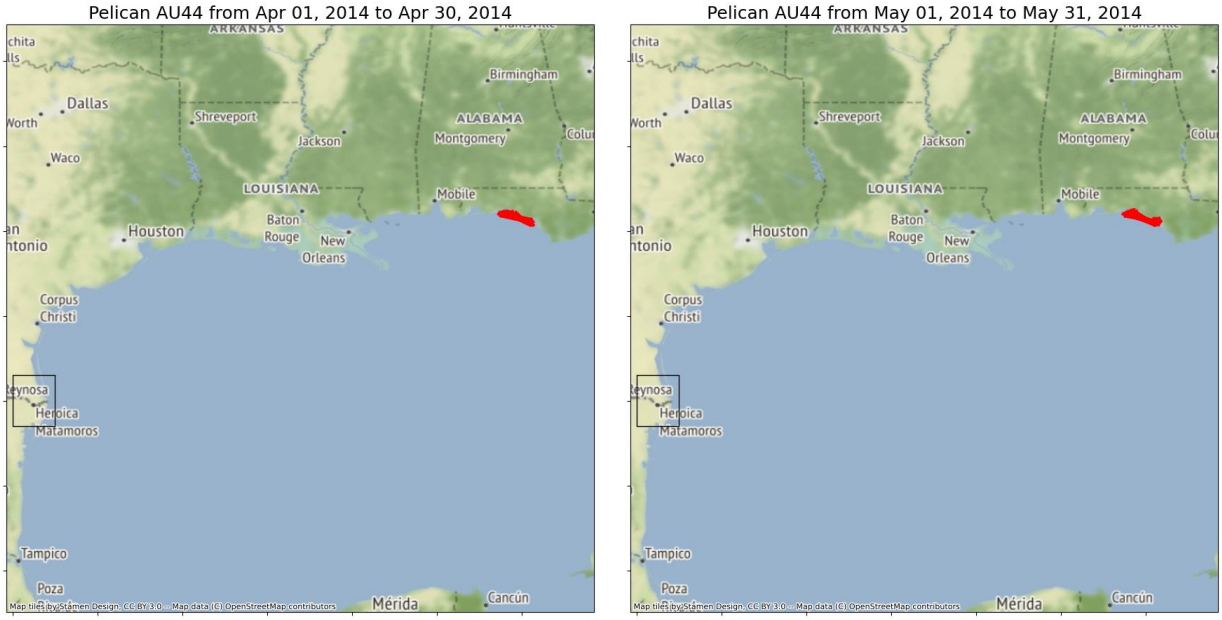

Figure 87 - Movements of AU44 between April 01, 2014 and May 31, 2014. Data from Lamb (2016)

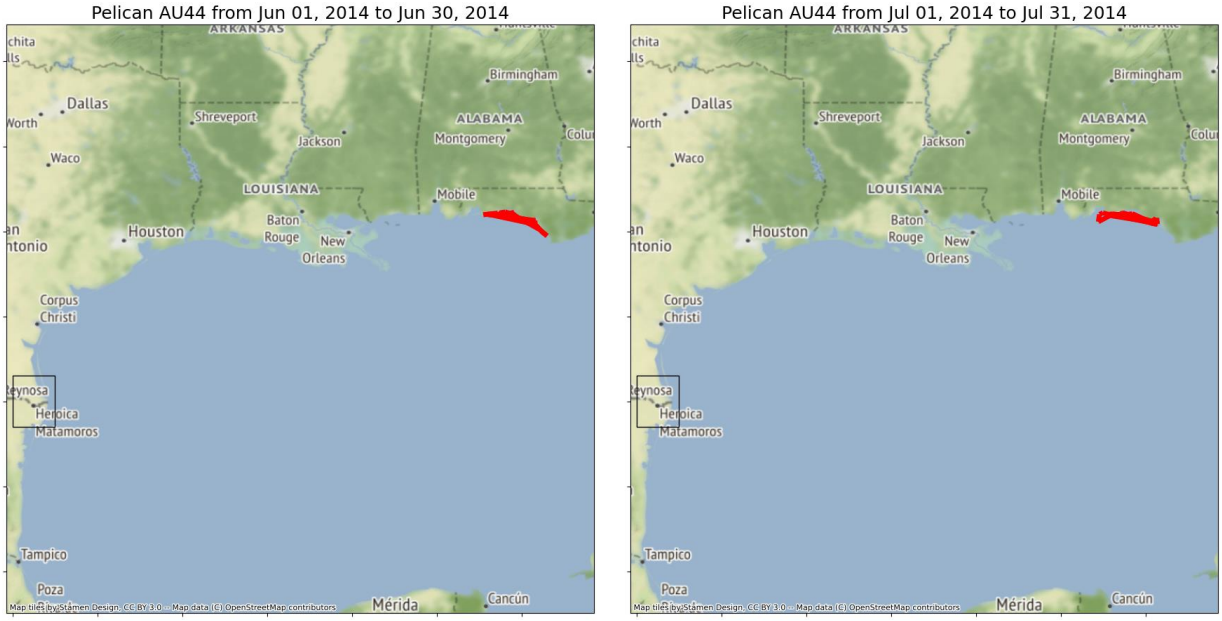

Figure 88 - Movements of AU44 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

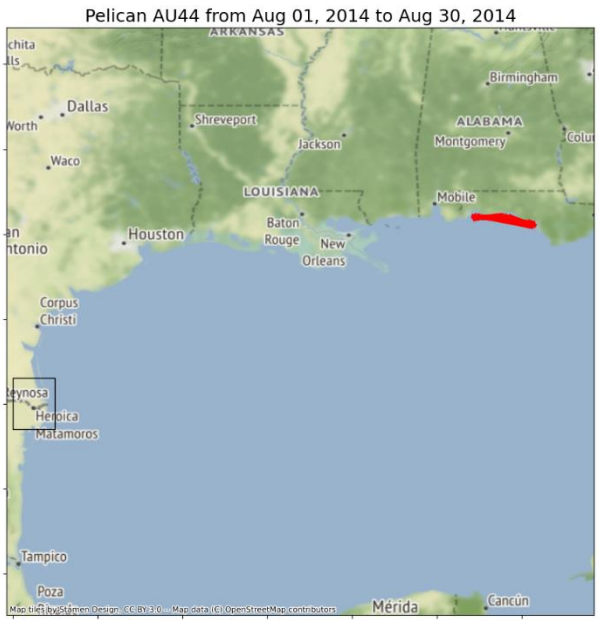

Figure 89 - Movements of AU44 between August 01, 2014 and August 30, 2014. Data from Lamb (2016)

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Pelican AU45 - Active from June 2013 to March 2014

Capture Date: June 15, 2013
Capture Location: Audubon (FL)
Sex: M
Status: rearing chick
Days Active: 286

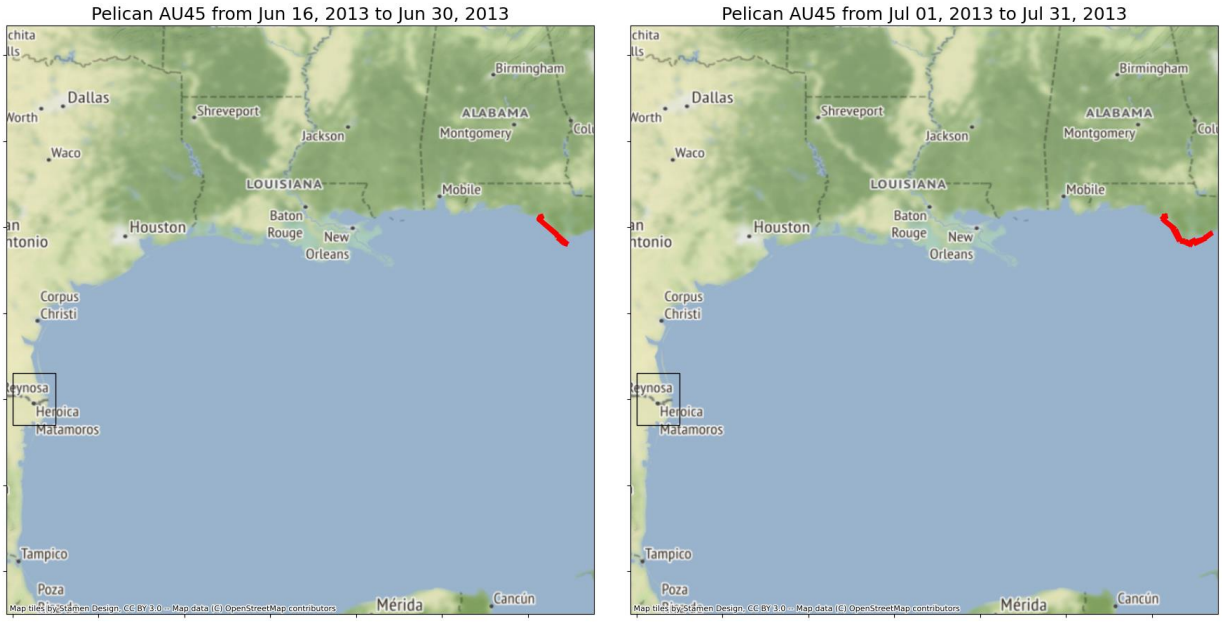

Figure 90 - Movements of AU45 between June 16, 2013 and July 31, 2013. Data from Lamb (2016)

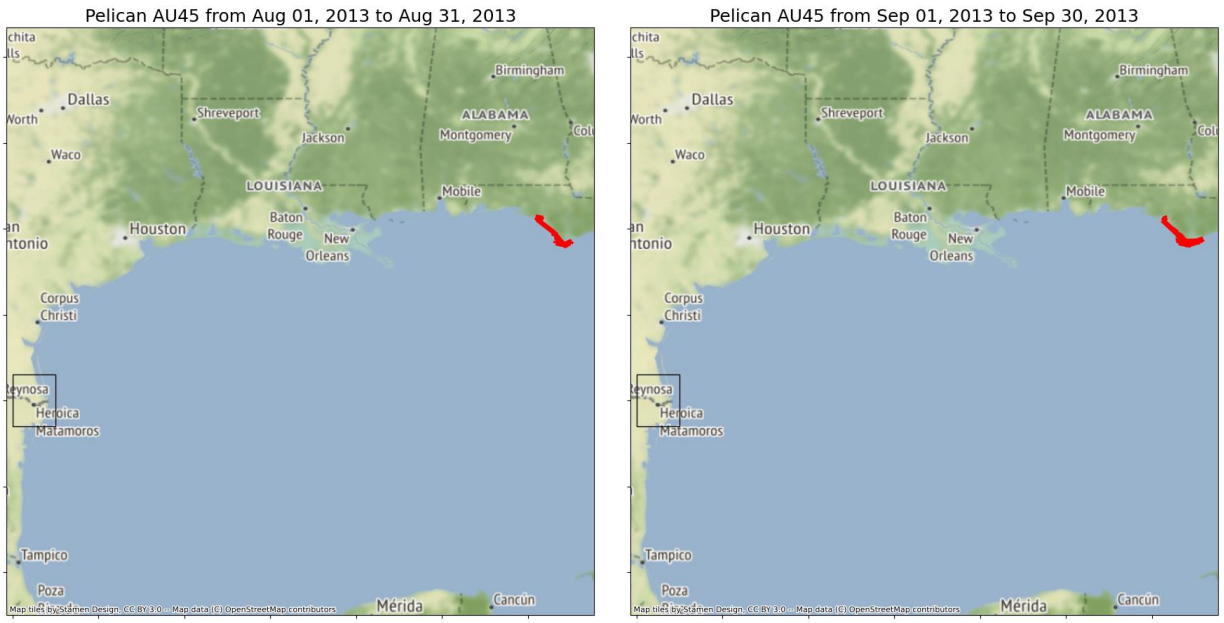

Figure 91 - Movements of AU45 between August 01, 2013 and September 30, 2013. Data from Lamb (2016)

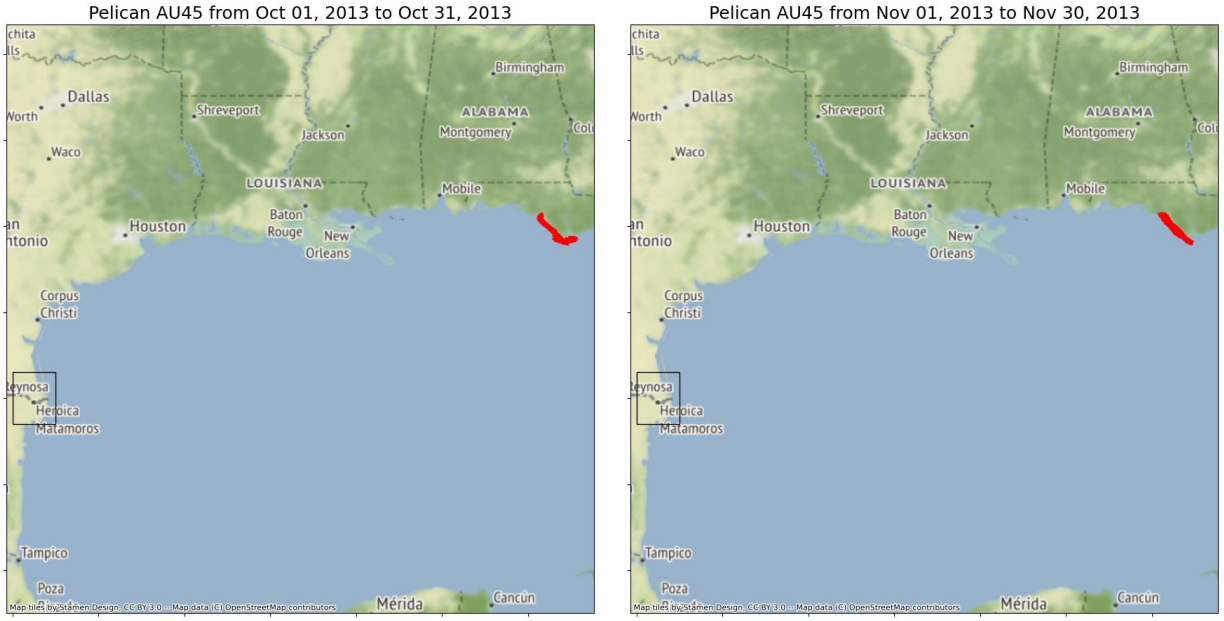

Figure 92 - Movements of AU45 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

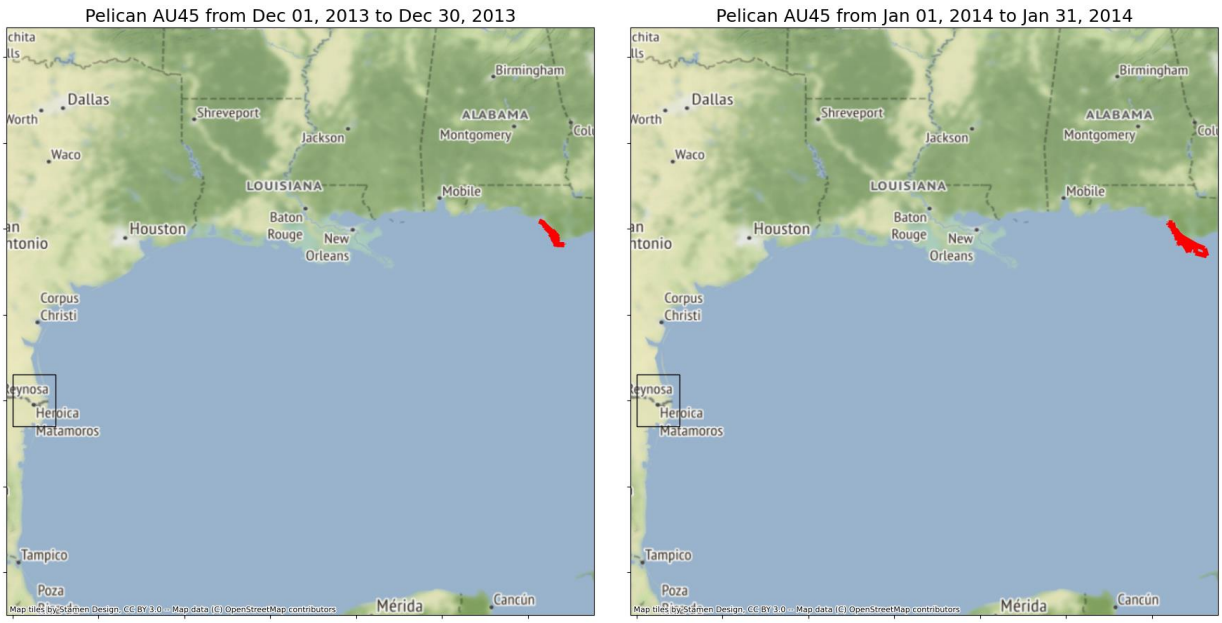

Figure 93 - Movements of AU45 between December 01, 2013 and January 31, 2014. Data from Lamb (2016)

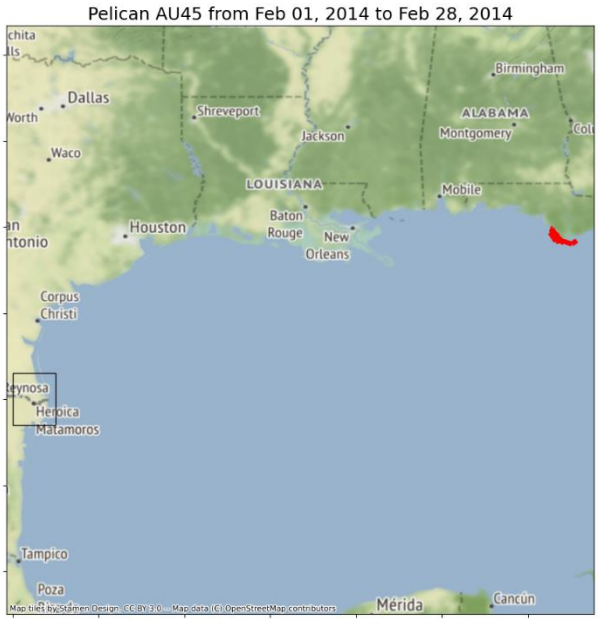

Figure 94 - Movements of AU45 between February 01, 2014 and February 28, 2014. Data from Lamb (2016)

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Pelican AU46 – Active from June 2013 to September 2013

Capture Date: June 16, 2013
Capture Location: Audubon (FL)
Sex: M
Status: rearing chick
Days Active: 104

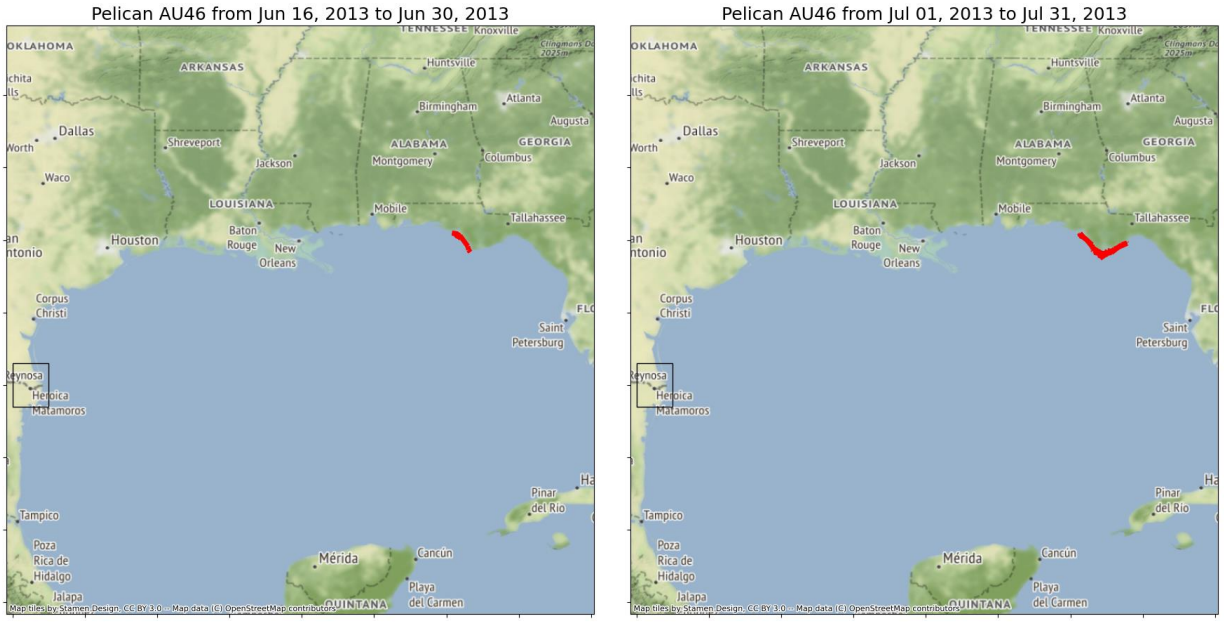

Figure 95 - Movements of AU46 between June 16, 2013 and July 31, 2013. Data from Lamb (2016)

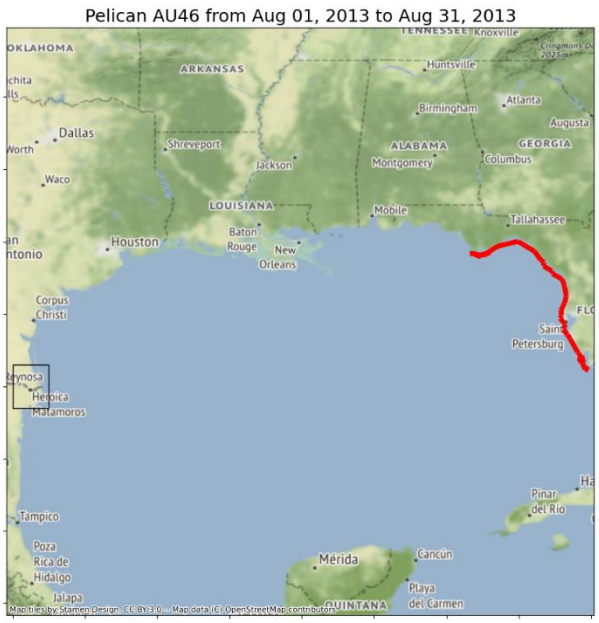

Figure 96 - Movements of AU46 between August 01, 2013 and August 31, 2013. Data from Lamb (2016)

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Pelican AU47 – Active from June 2013 to February 2015

Capture Date: June 16, 2013
Capture Location: Audubon (FL)
Sex: M
Status: rearing chick
Days Active: 595

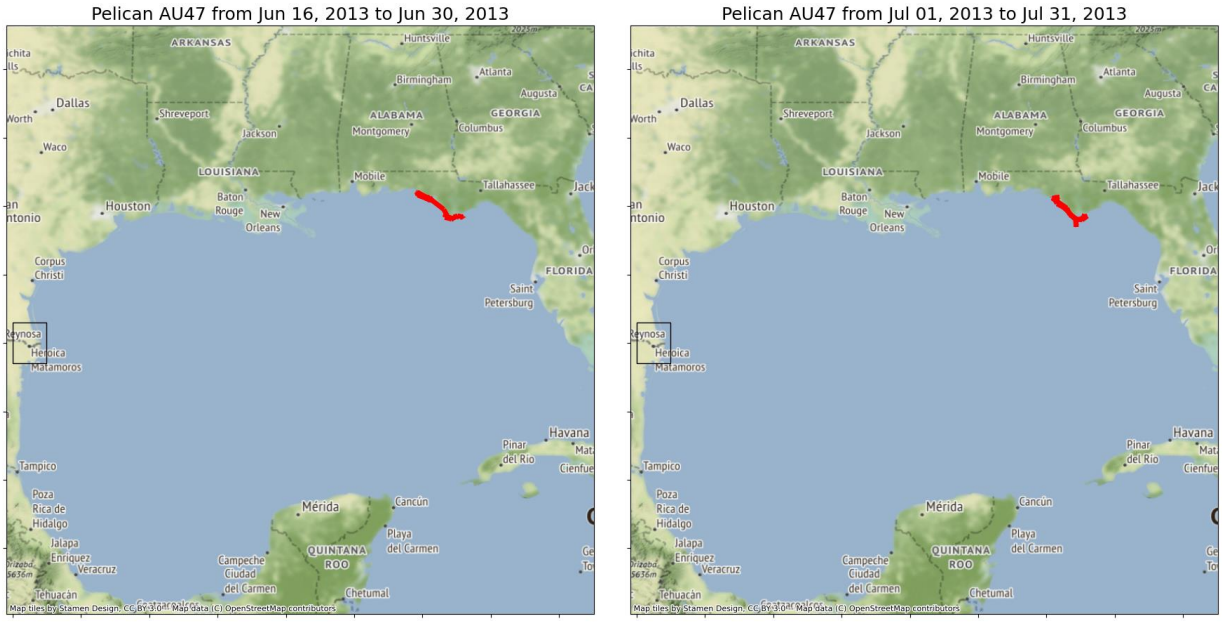


Figure 97 - Movements of AU47 between June 16, 2013 and July 31, 2013. Data from Lamb (2016)

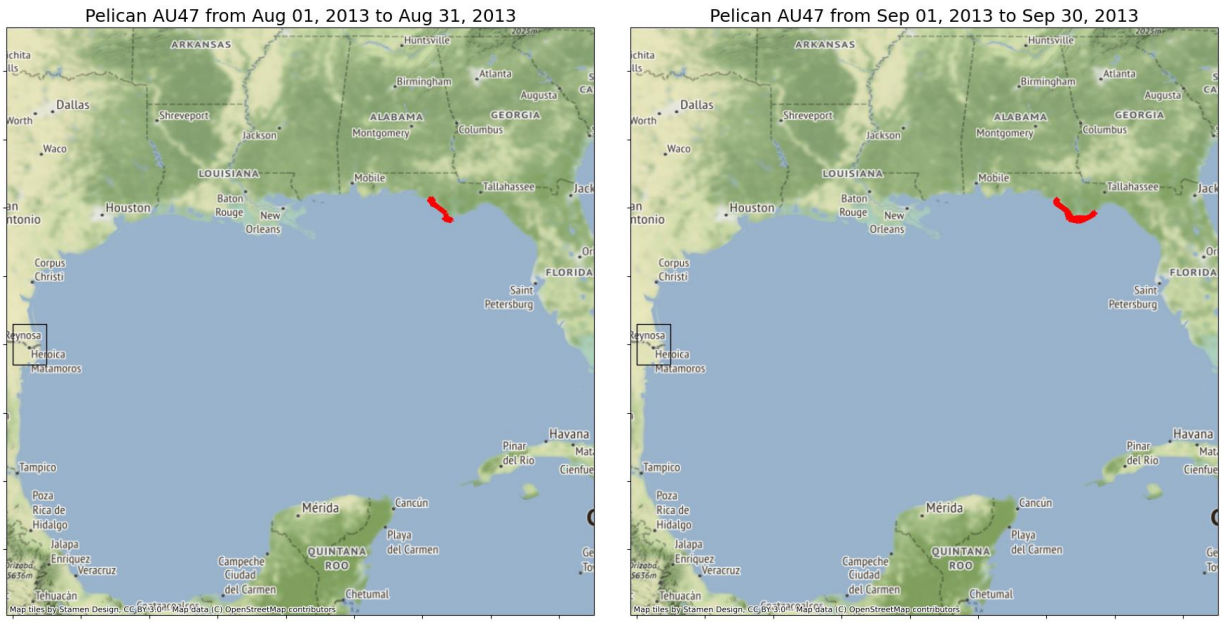


Figure 98 - Movements of AU47 between August 01, 2013 and September 30, 2013. Data from Lamb (2016)

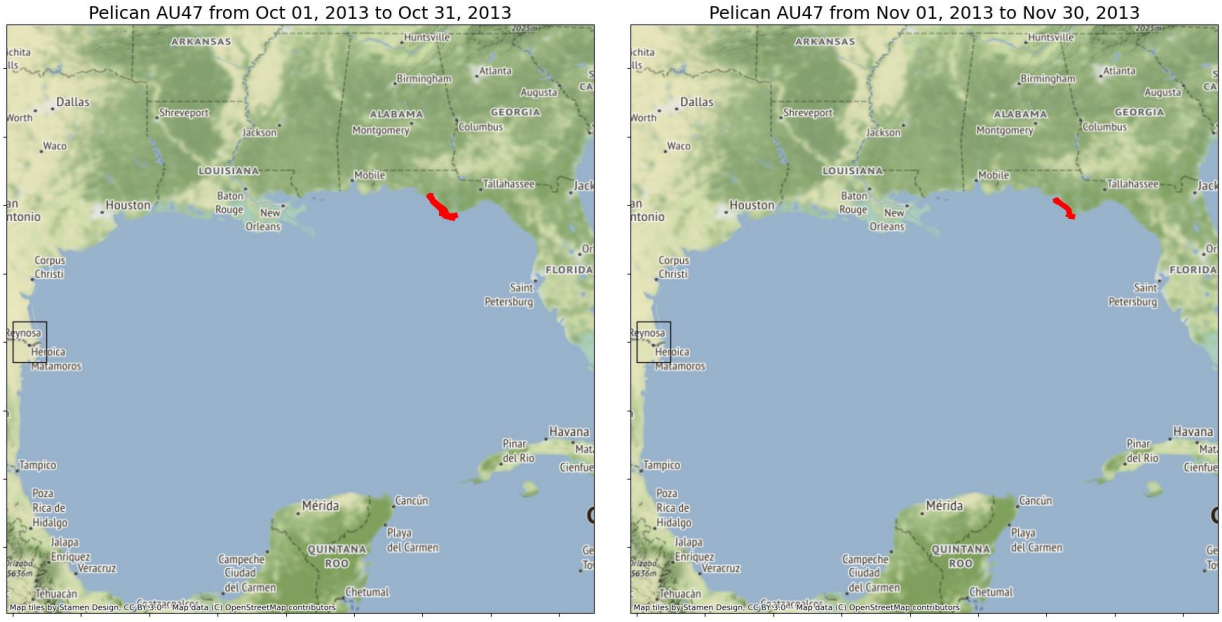


Figure 99 - Movements of AU47 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

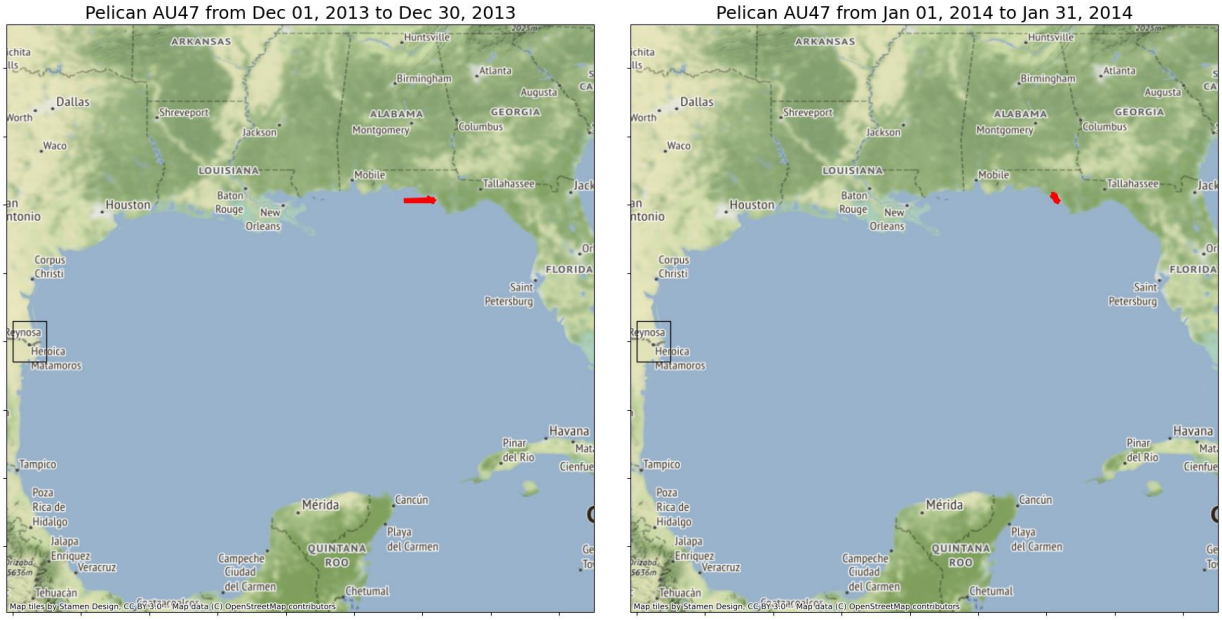


Figure 100 - Movements of AU47 between December 01, 2013 and January 31, 2014. Data from Lamb (2016)

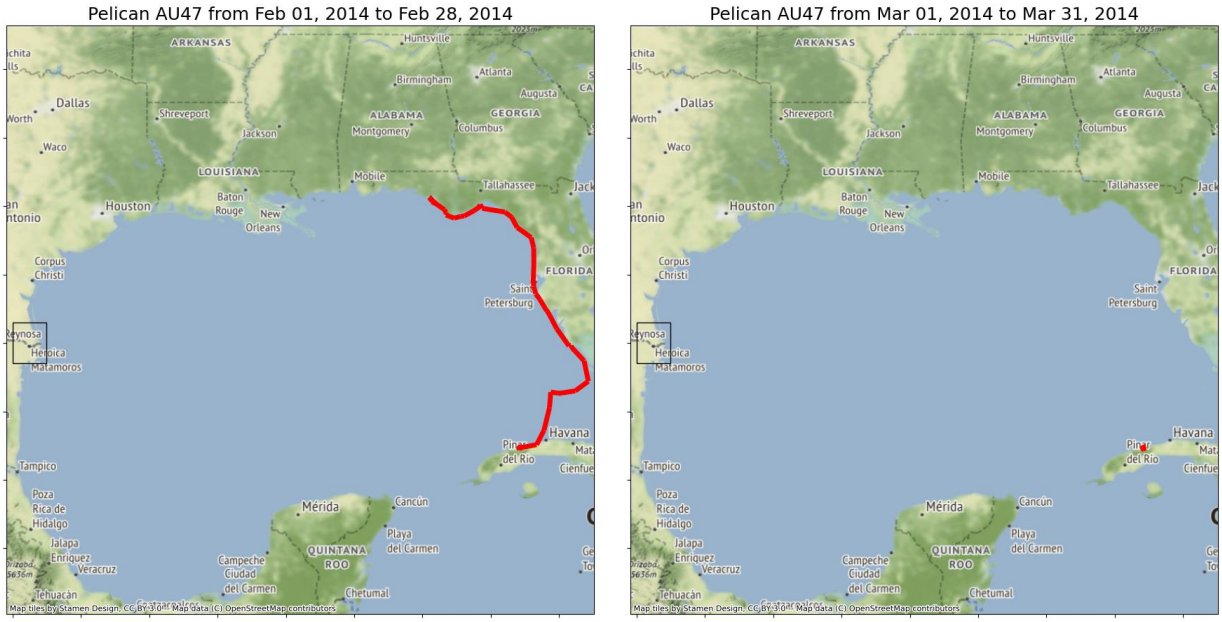


Figure 101 - Movements of AU47 between February 01, 2014 and March 31, 2014. Data from Lamb (2016)

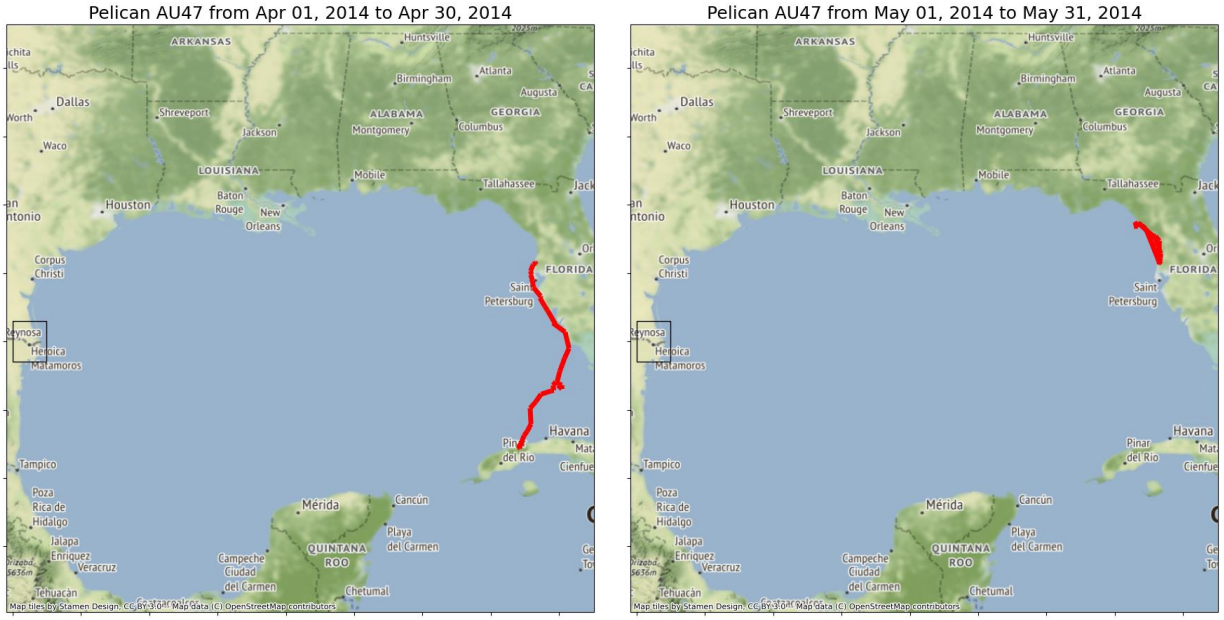


Figure 102 - Movements of AU47 between April 01, 2014 and May 31, 2014. Data from Lamb (2016)

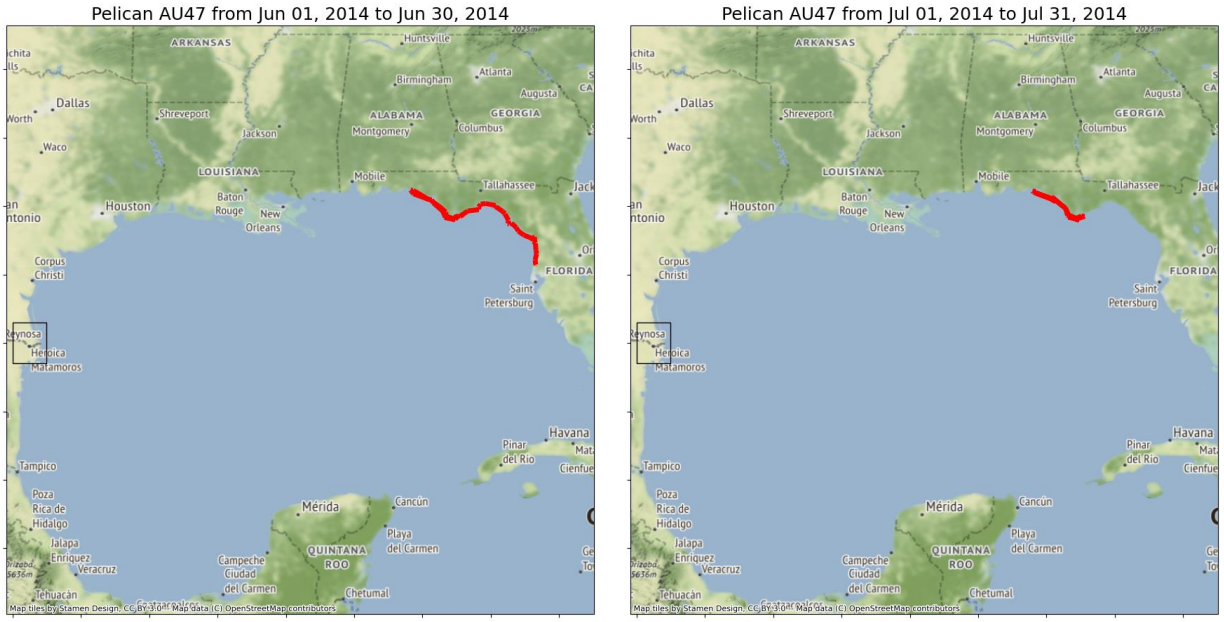
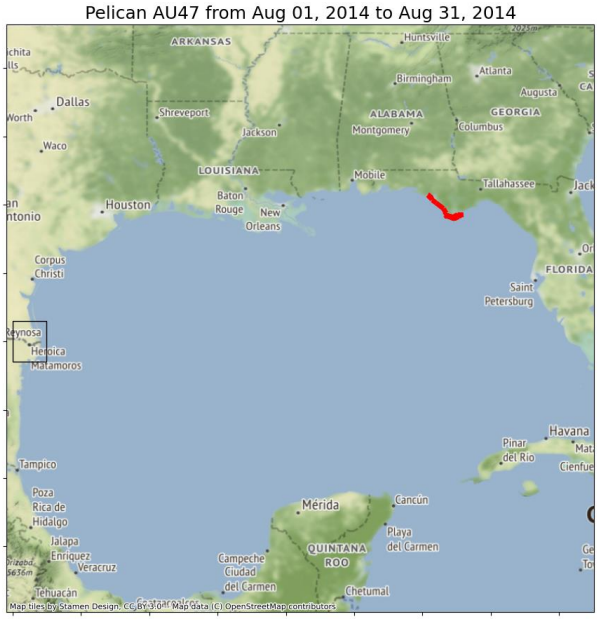


Figure 103 - Movements of AU47 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)



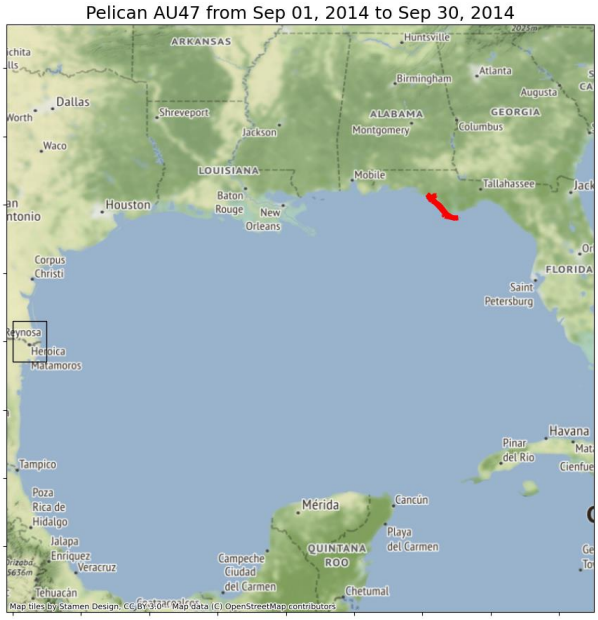
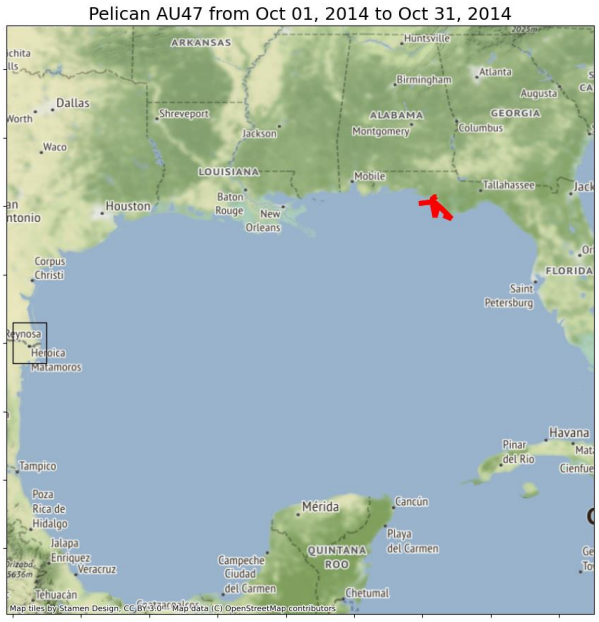


Figure 104 - Movements of AU47 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)



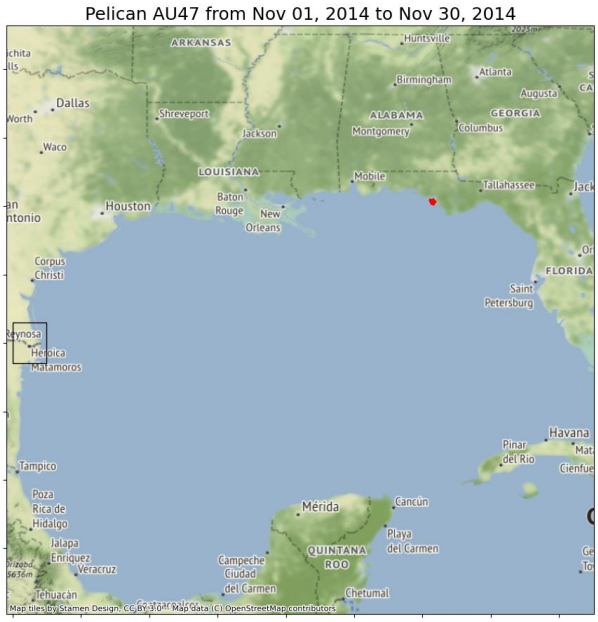


Figure 105 - Movements of AU47 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

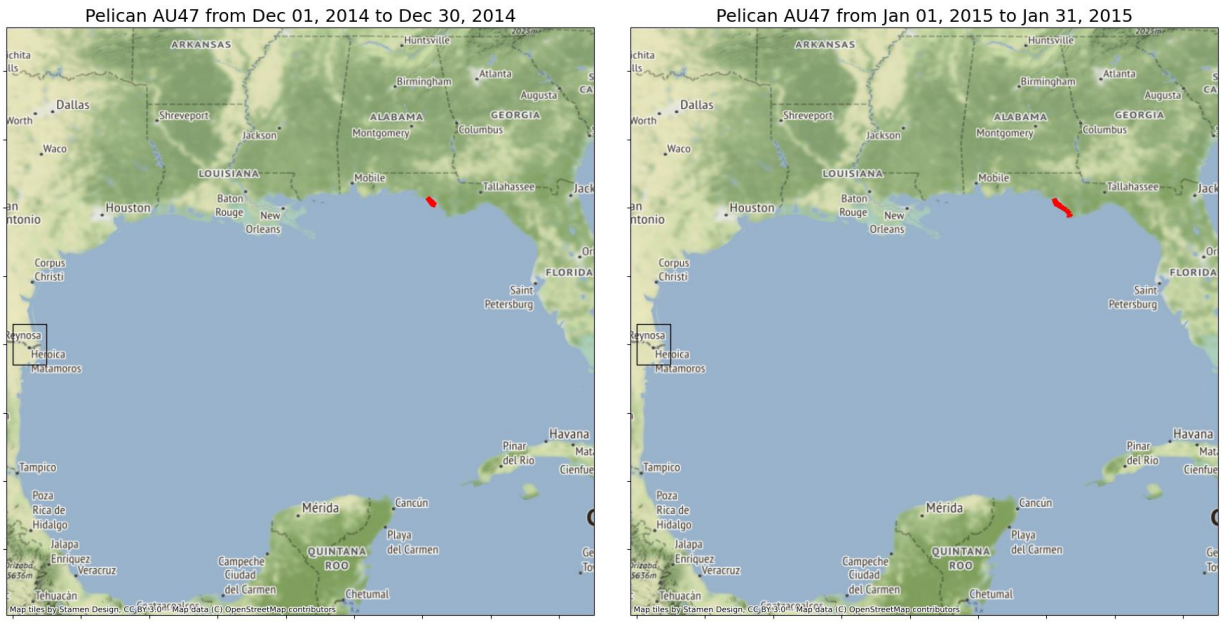


Figure 106 - Movements of AU47 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

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Pelican AU48 – Active from June 2013 to September 2015

Capture Date: June 16, 2013
Capture Location: Audubon (FL)
Sex: M
Status: rearing chick
Days Active: 822

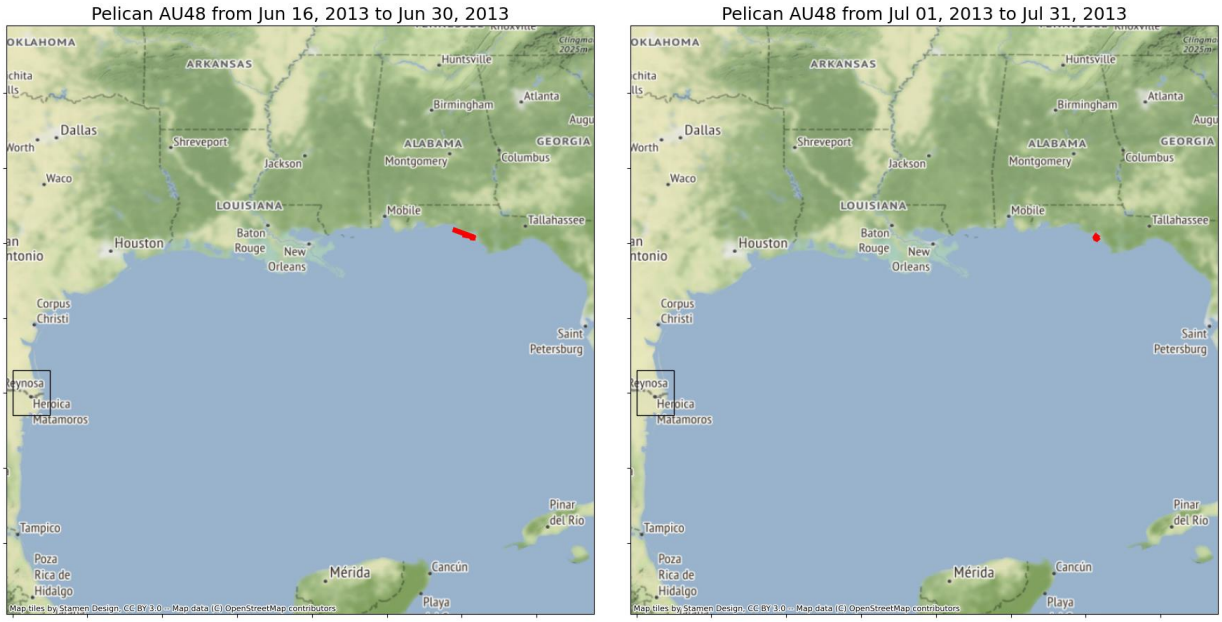

Figure 107 - Movements of AU48 between June 16, 2013 and July 31, 2013. Data from Lamb (2016)

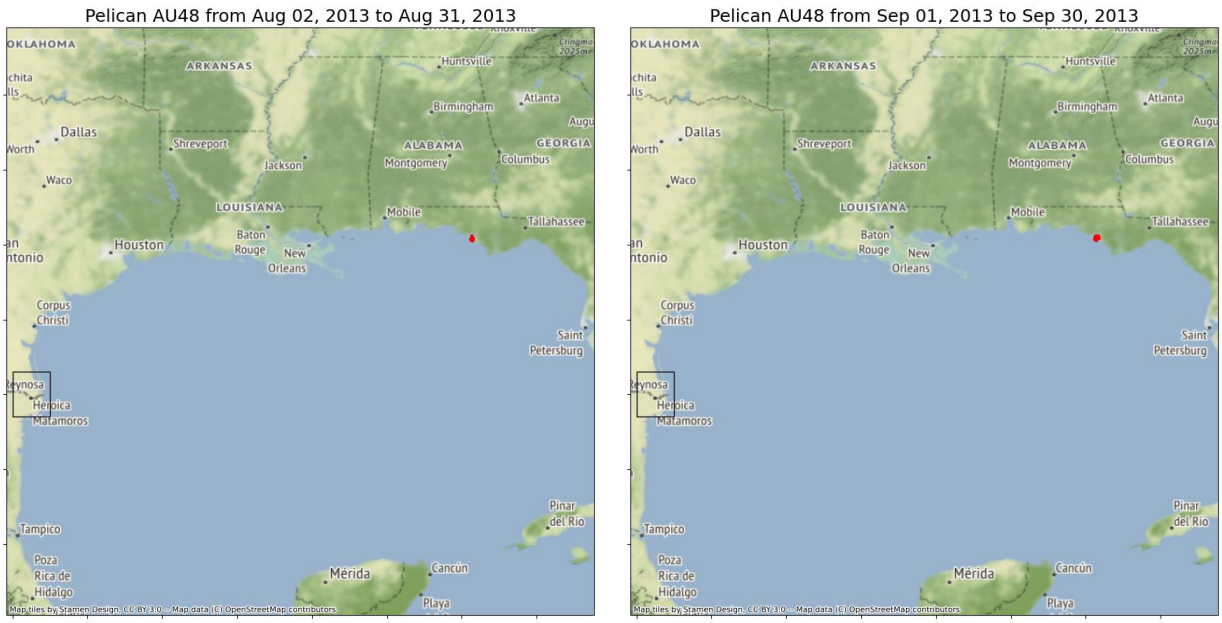

Figure 108 - Movements of AU48 between August 02, 2013 and September 30, 2013. Data from Lamb (2016)

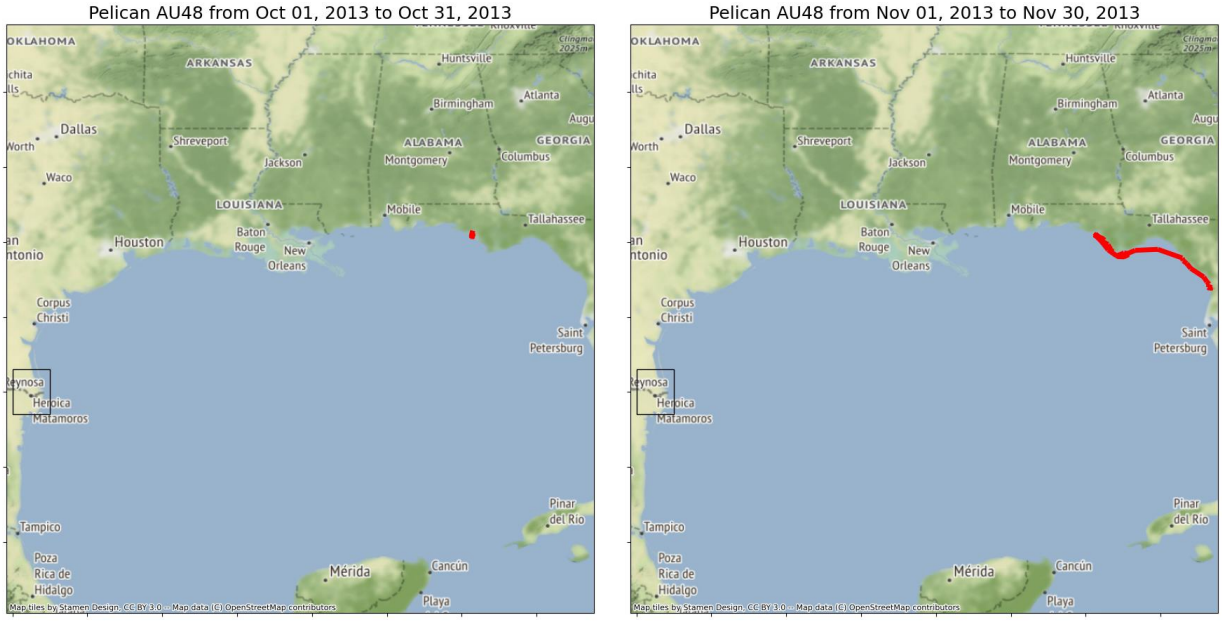

Figure 109 - Movements of AU48 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

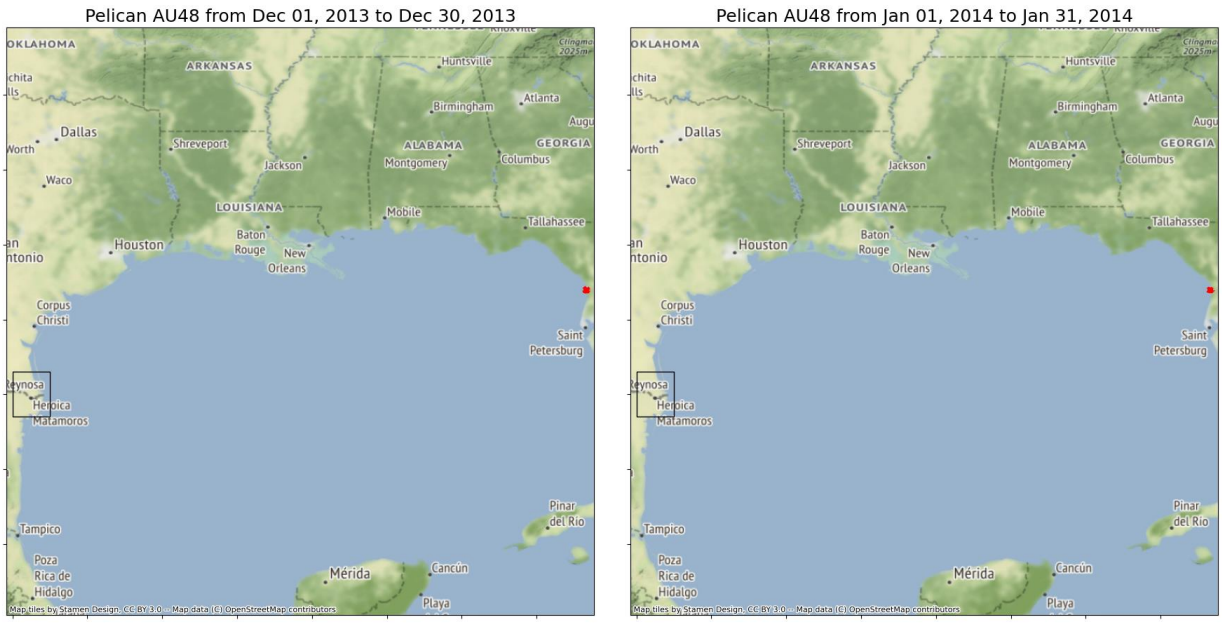

Figure 110 - Movements of AU48 between December 01, 2013 and January 31, 2014. Data from Lamb (2016)

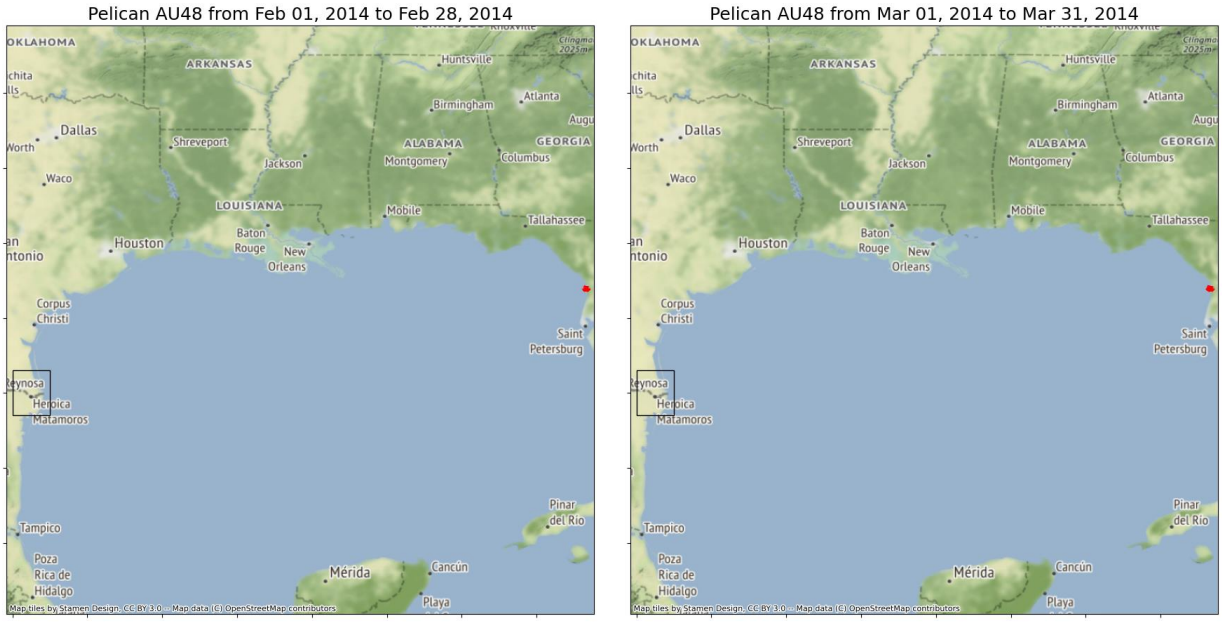

Figure 111 - Movements of AU48 between February 01, 2014 and March 31, 2014. Data from Lamb (2016)

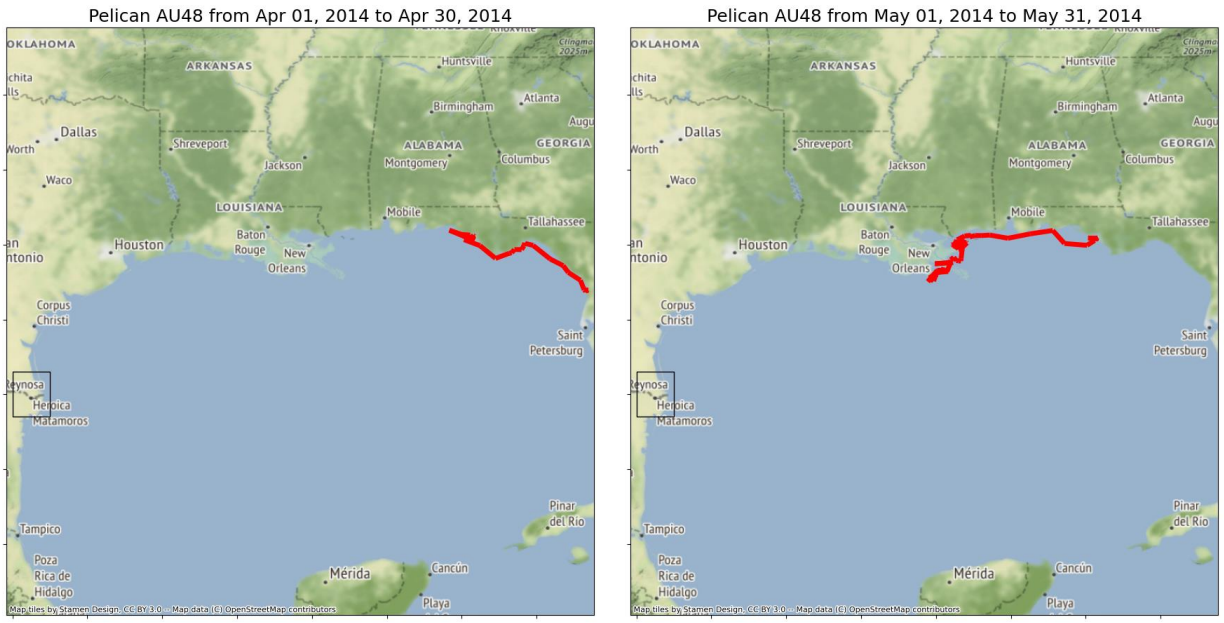

Figure 112 - Movements of AU48 between April 01, 2014 and May 31, 2014. Data from Lamb (2016)

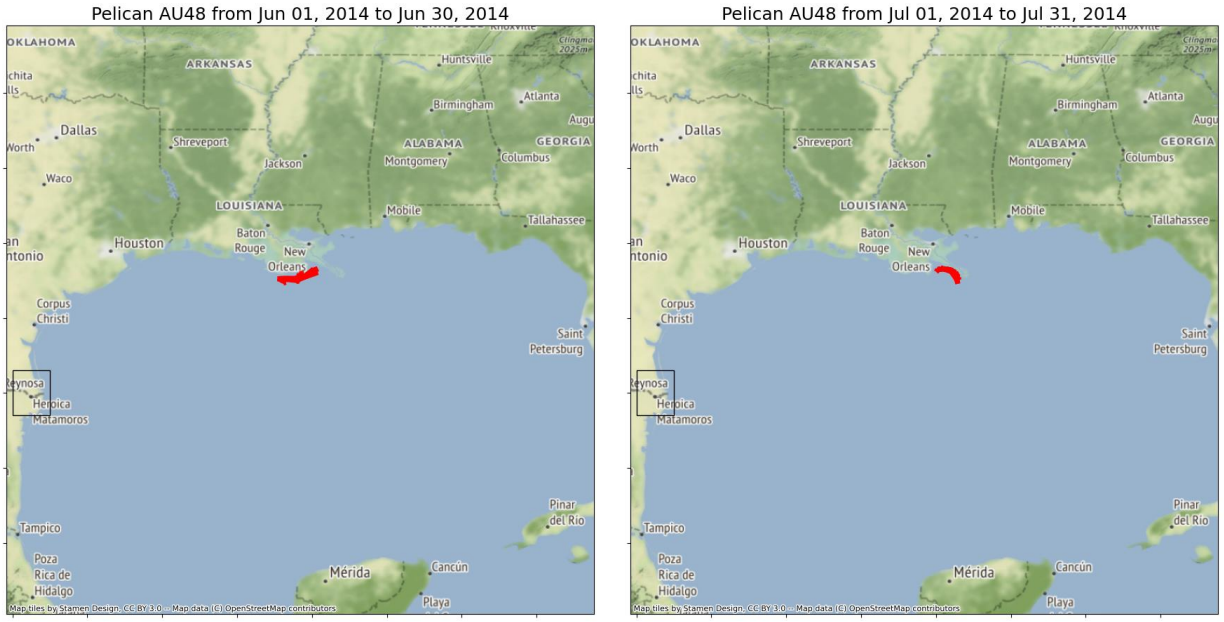

Figure 113 - Movements of AU48 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

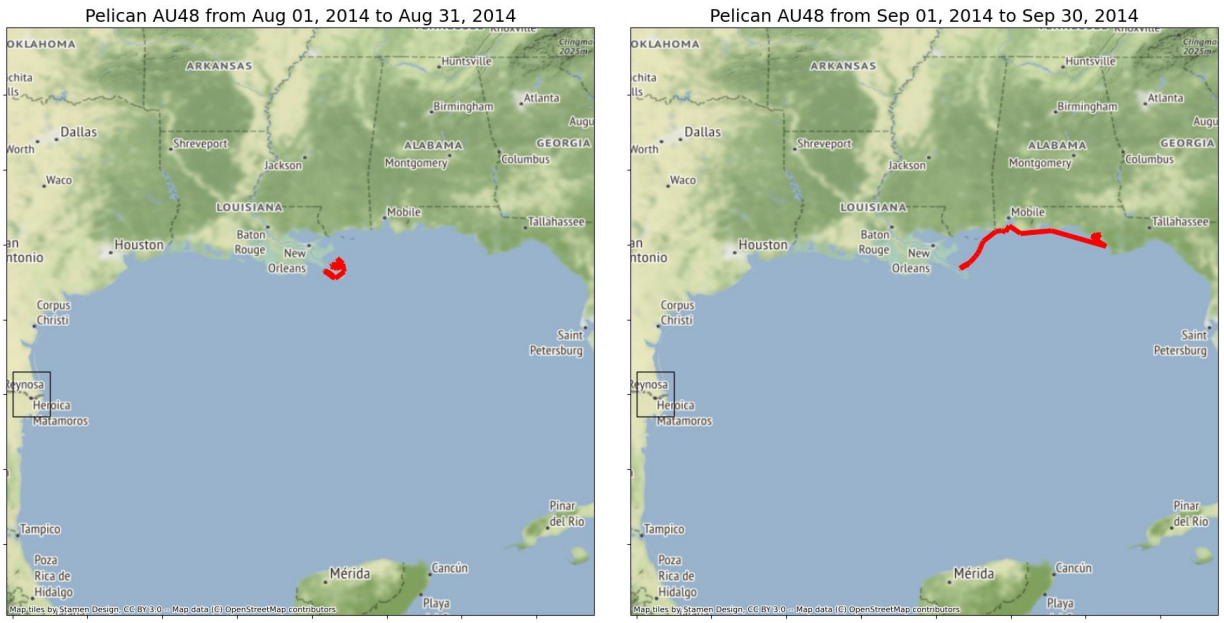

Figure 114 - Movements of AU48 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

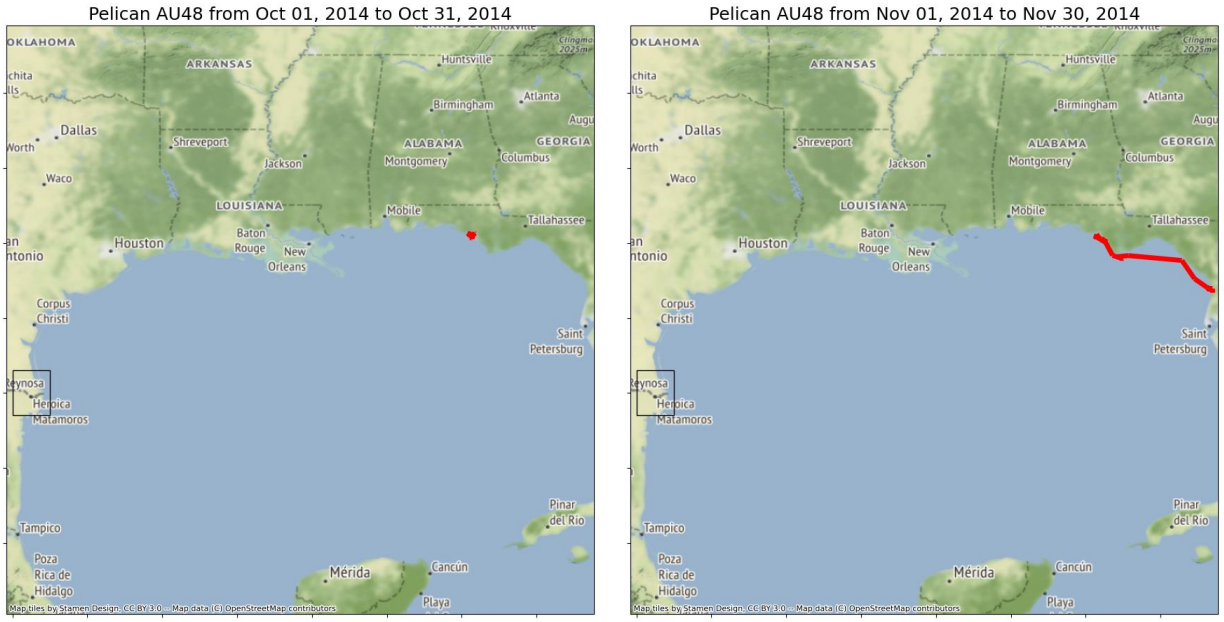

Figure 115 - Movements of AU48 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

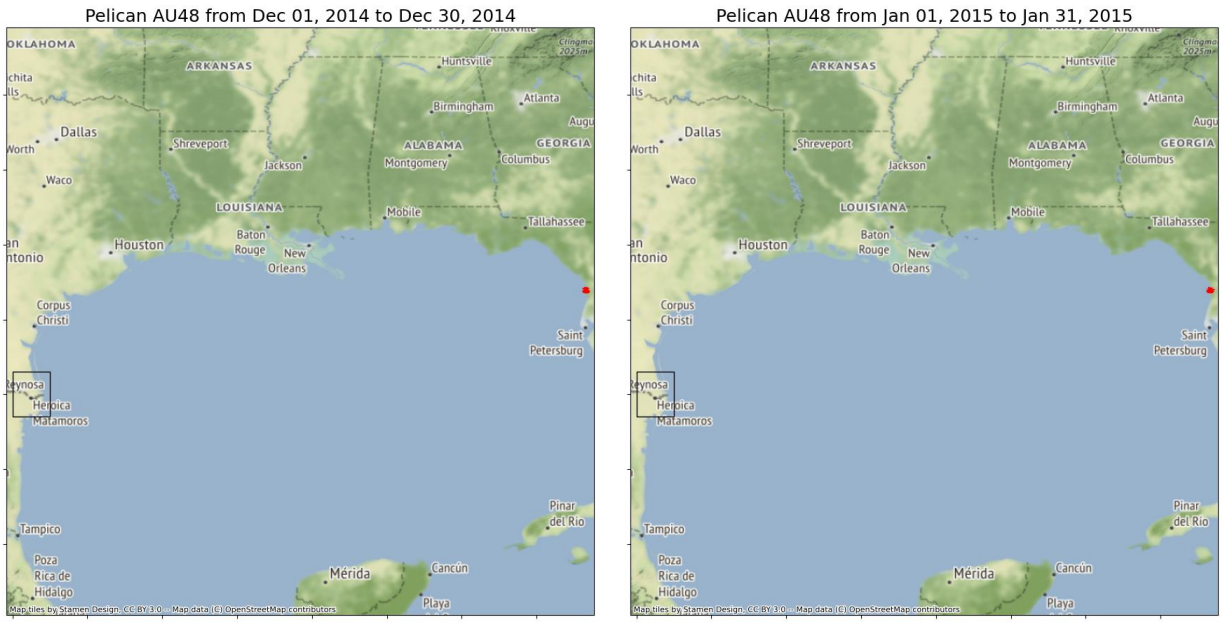

Figure 116 - Movements of AU48 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

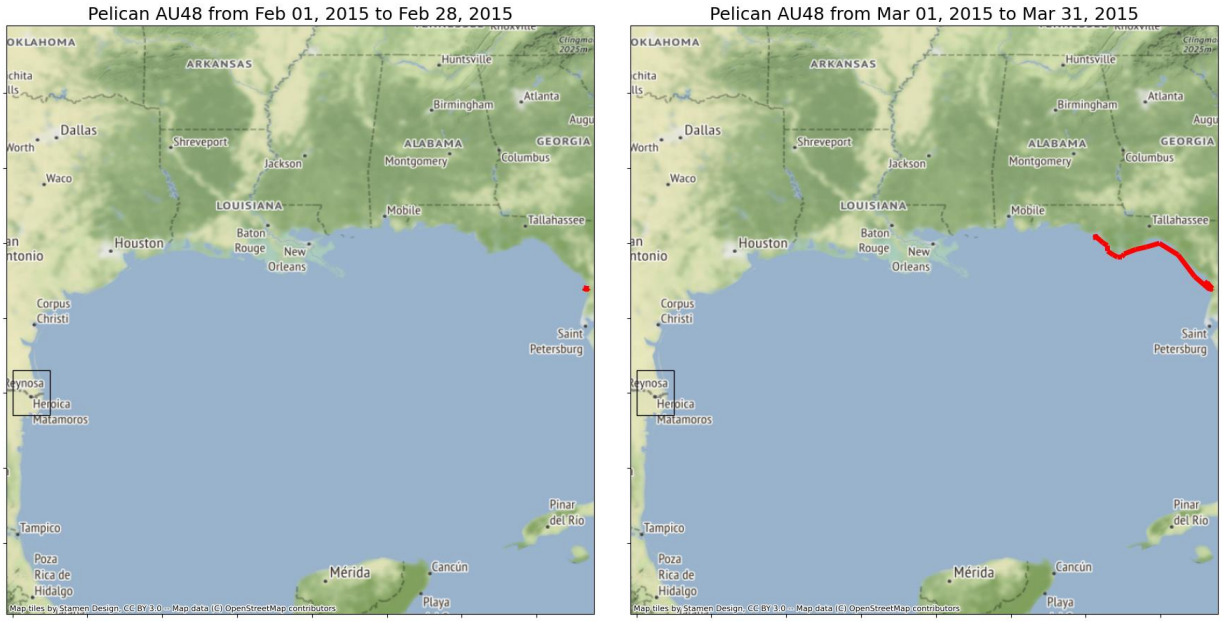

Figure 117 - Movements of AU48 between February 01, 2015 and March 31, 2015. Data from Lamb (2016)

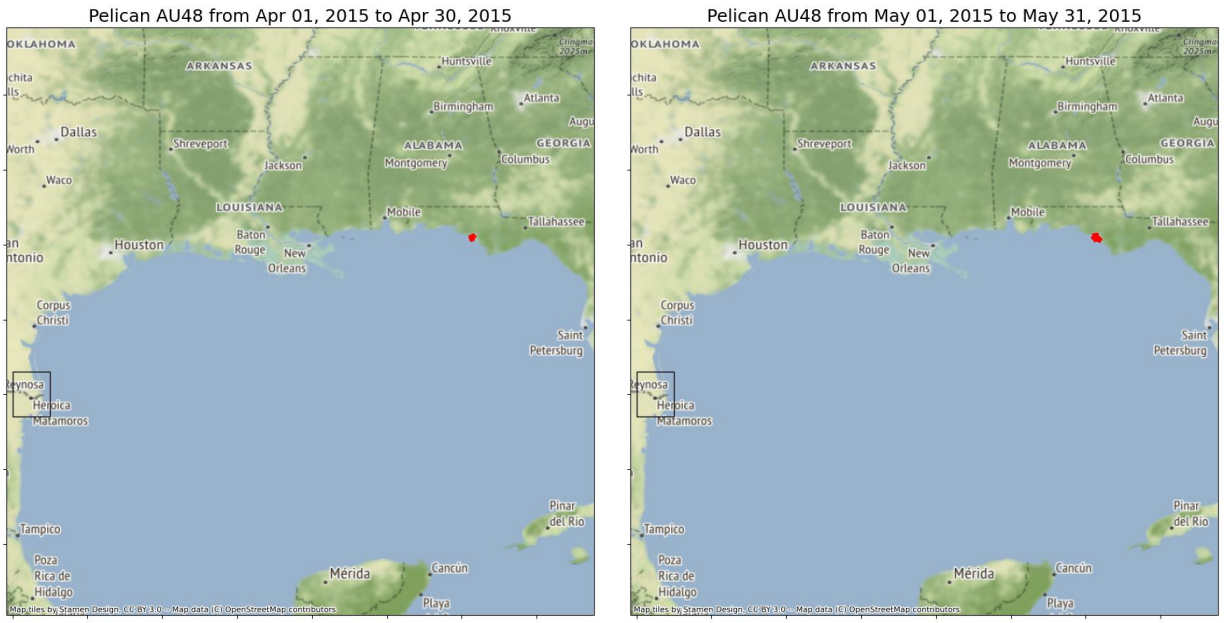

Figure 118 - Movements of AU48 between April 01, 2015 and May 31, 2015. Data from Lamb (2016)

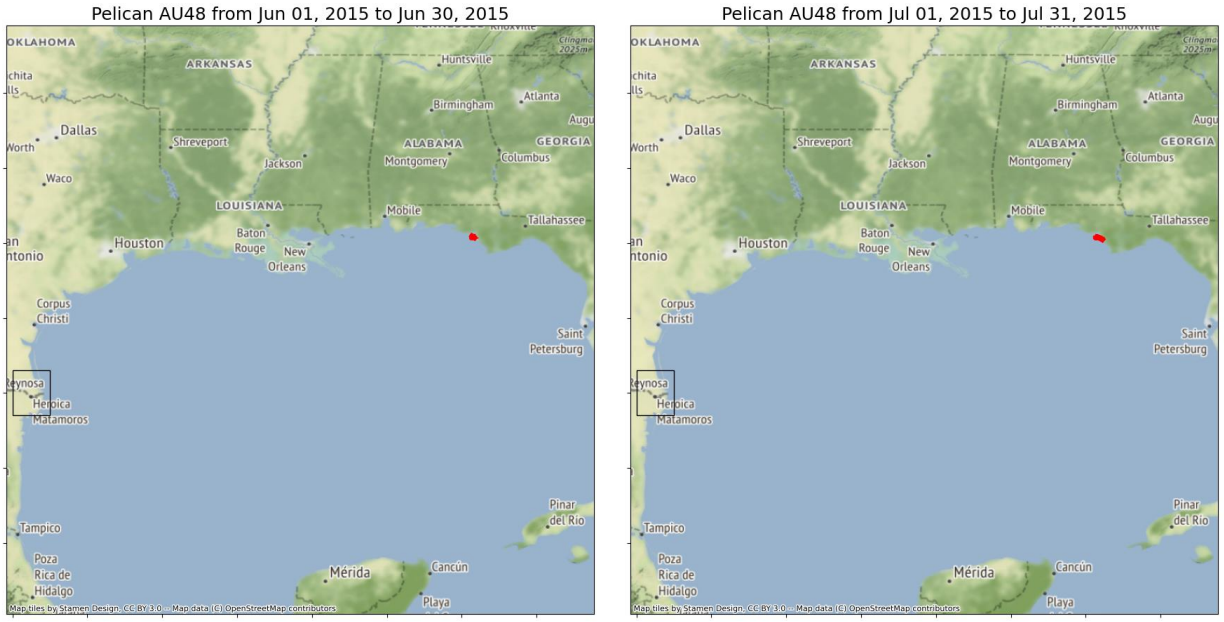

Figure 119 - Movements of AU48 between June 01, 2015 and July 31, 2015. Data from Lamb (2016)

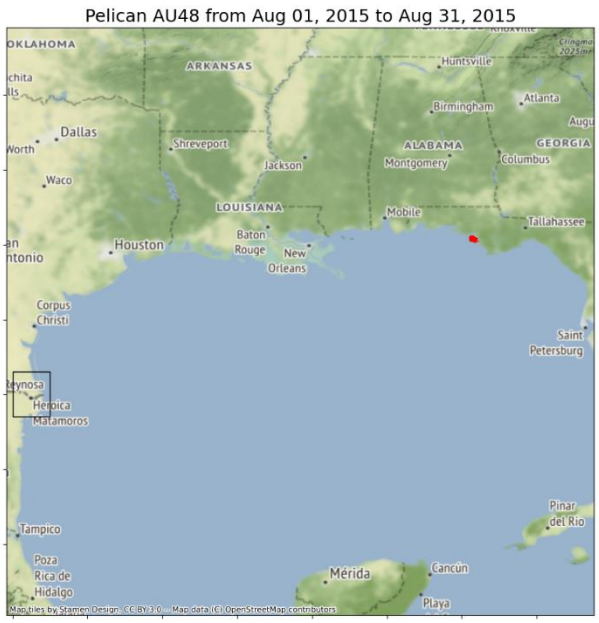

Figure 120 - Movements of AU48 between August 01, 2015 and August 31, 2015. Data from Lamb (2016)

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Pelican AU49 – Active from June 2013 to November 2013

Capture Date: June 17, 2013
Capture Location: Audubon (FL)
Sex: F
Status: rearing chick
Days Active: 163

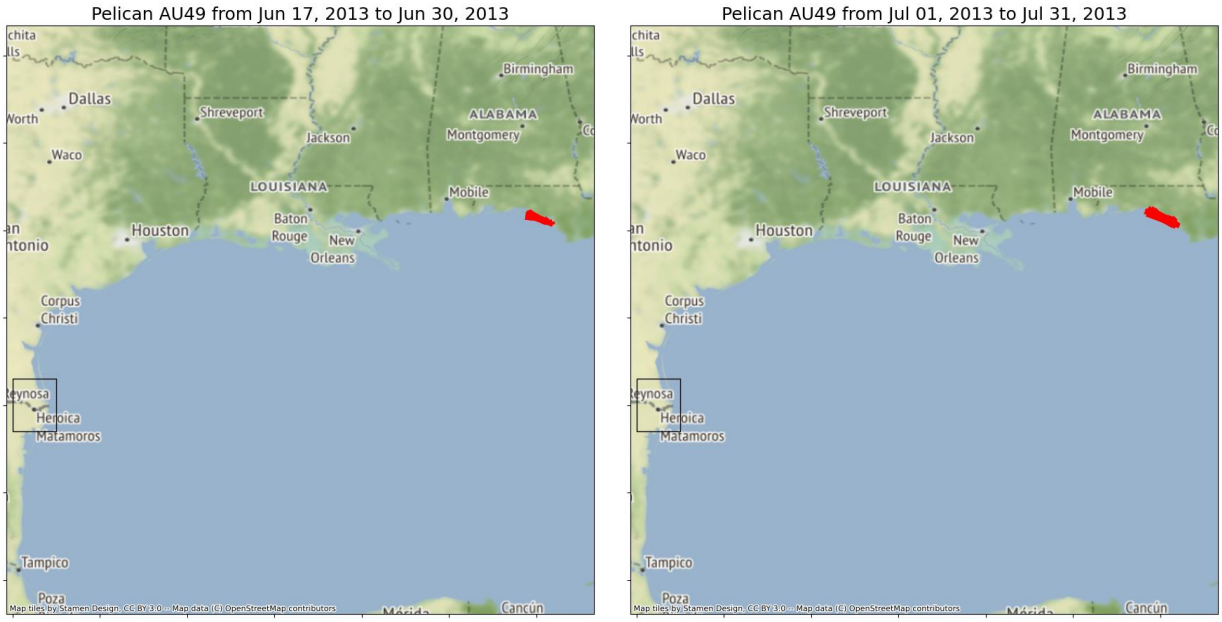

Figure 121 - Movements of AU49 between June 17, 2013 and July 31, 2013. Data from Lamb (2016)

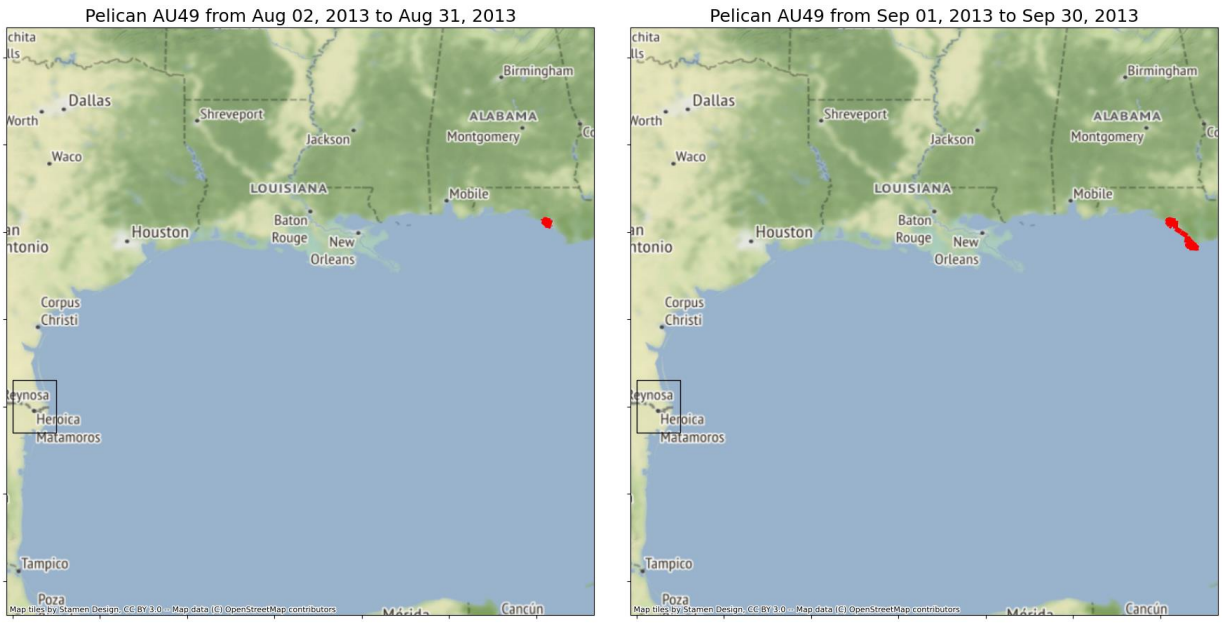

Figure 122 - Movements of AU49 between August 02, 2013 and September 30, 2013. Data from Lamb (2016)

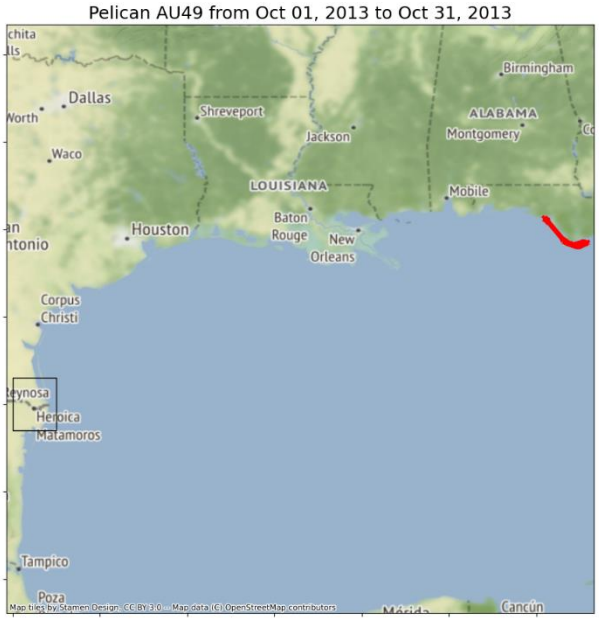

Figure 123 - Movements of AU49 between October 01, 2013 and October 31, 2013. Data from Lamb (2016)

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Pelican CH18 – Active from May 2013 to April 2014

Capture Date: May 20, 2013
Capture Location: Chester (Texas)
Sex: M
Status: rearing chick
Days Active: 326

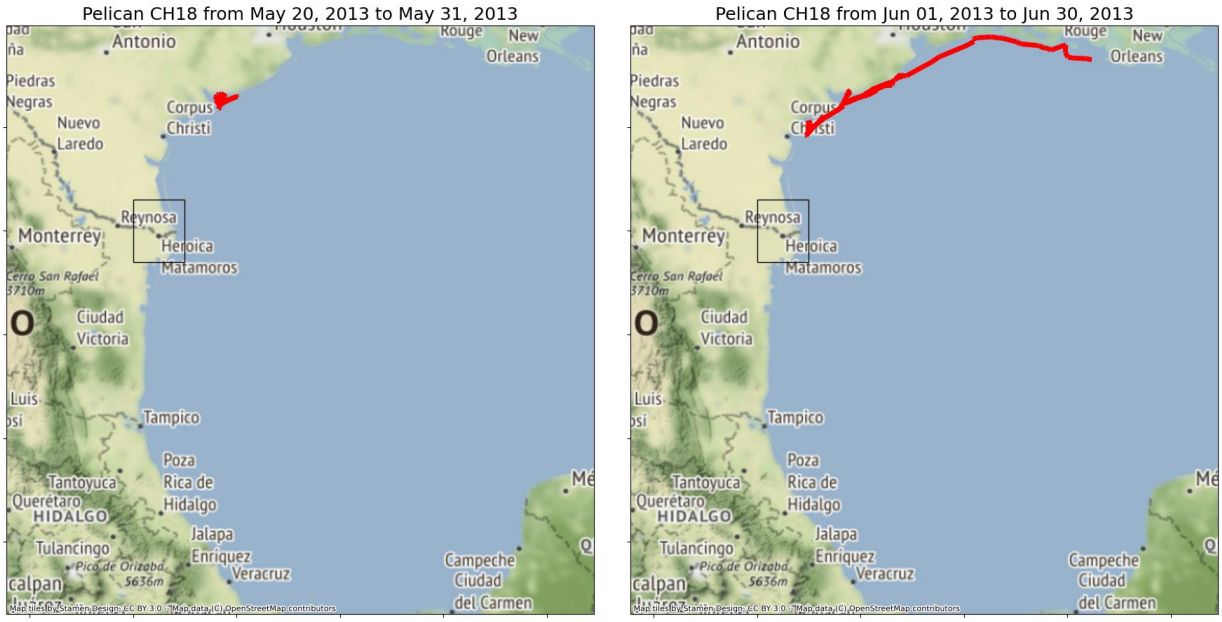

Figure 124 - Movements of CH18 between May 20, 2013 and June 30, 2013. Data from Lamb (2016)

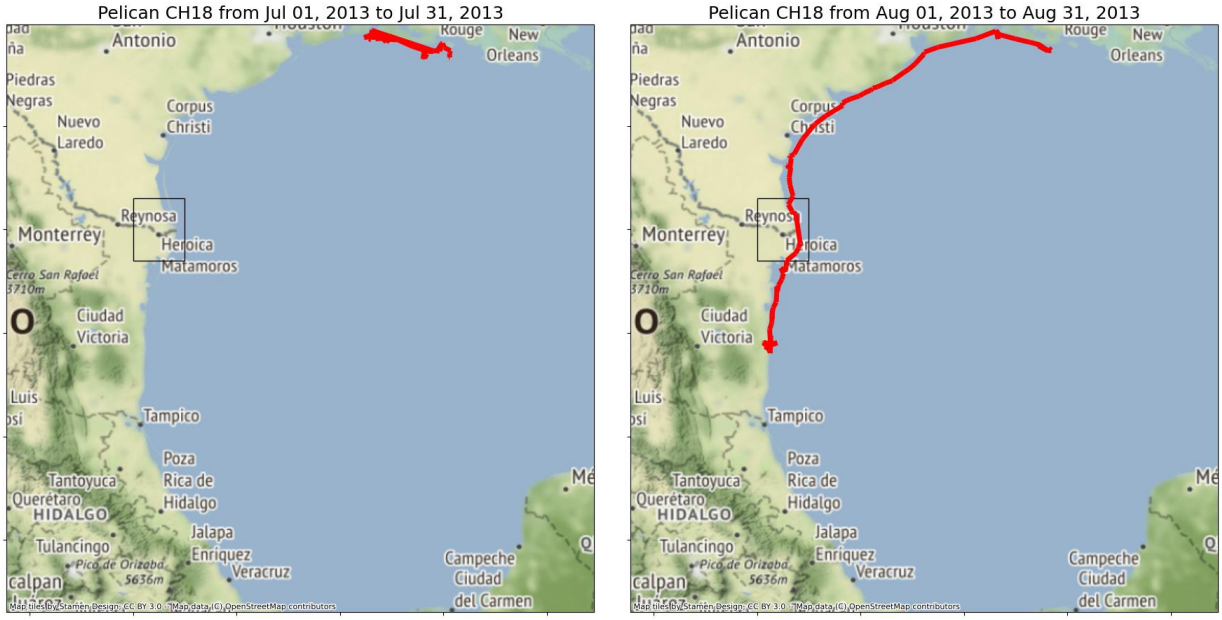

Figure 125 - Movements of CH18 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

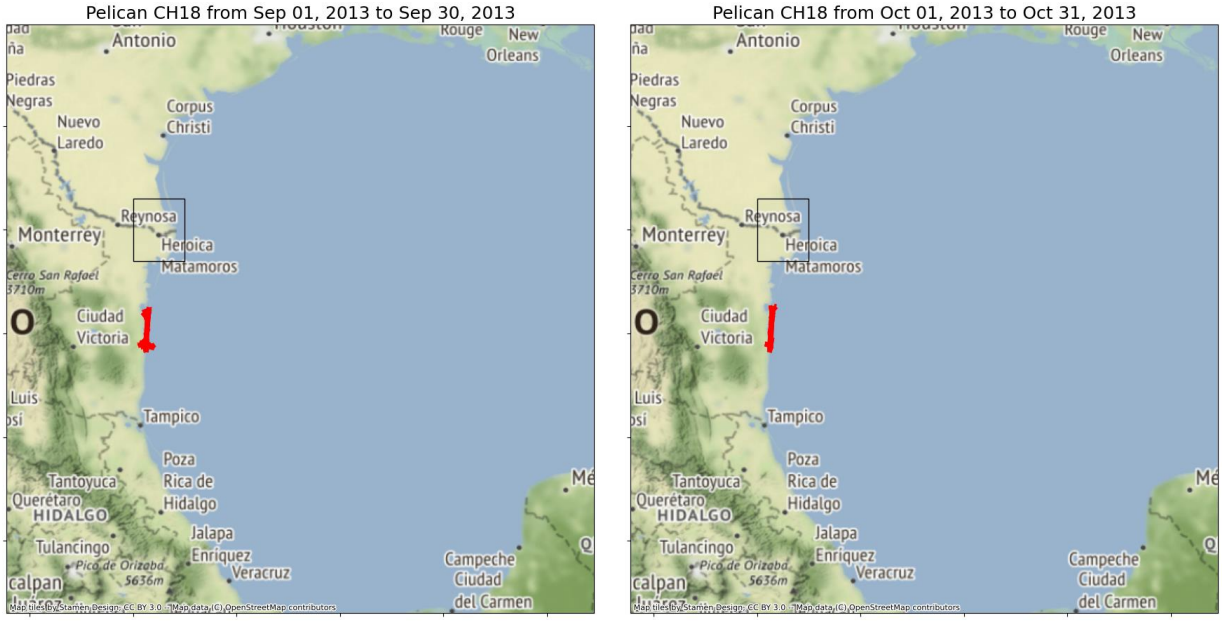

Figure 126 - Movements of CH18 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

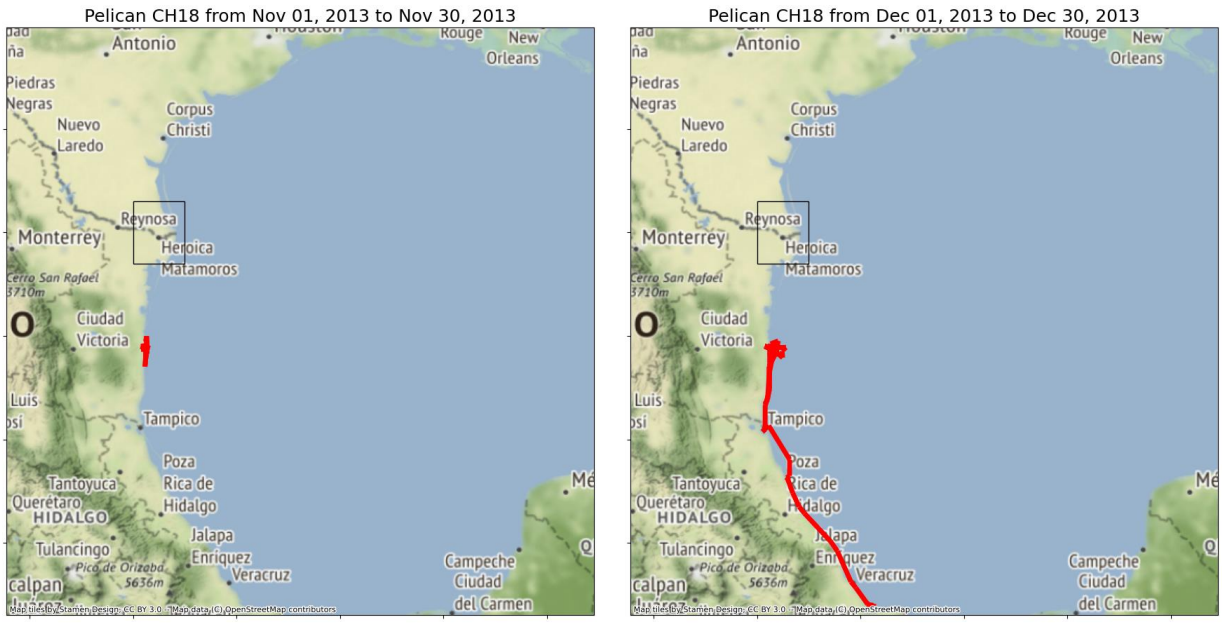

Figure 127 - Movements of CH18 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

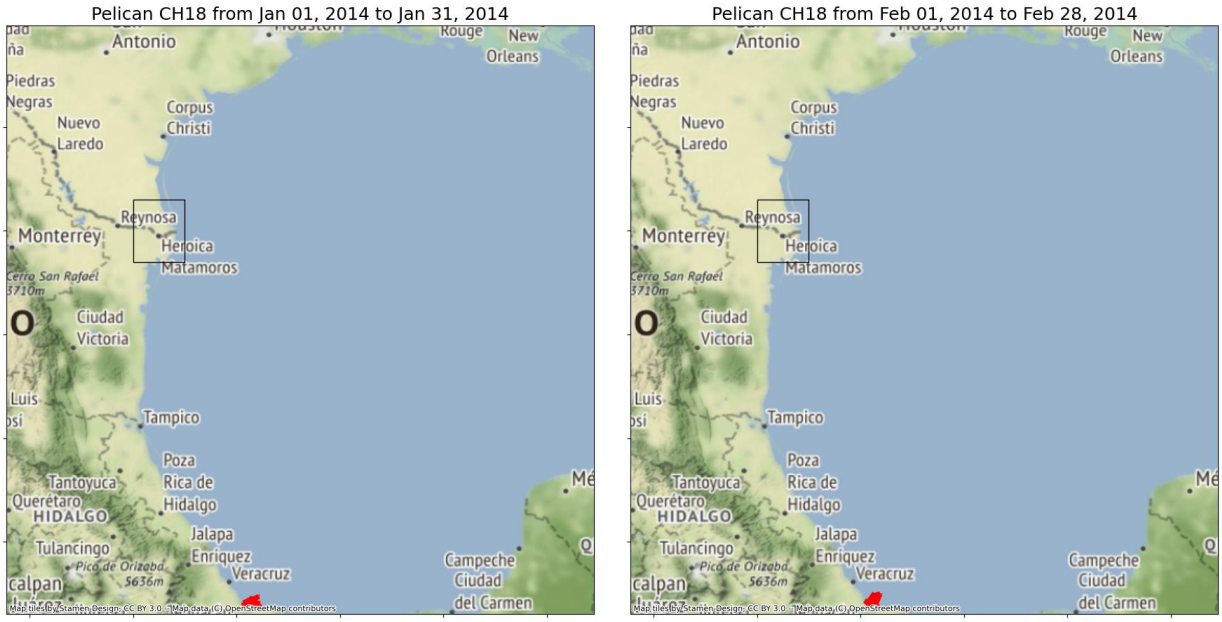

Figure 128 - Movements of CH18 between January 01, 2014 and February 28, 2014. Data from Lamb (2016)

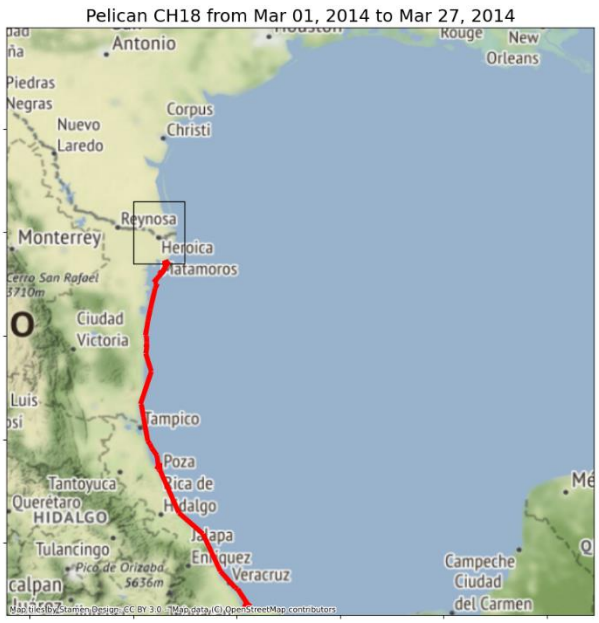

Figure 129 - Movements of CH18 between March 01, 2014 and March 27, 2014. Data from Lamb (2016)

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Pelican CH19 – Active from May 2013 to February 2015

Capture Date: May 24, 2013
Capture Location: Chester (Texas)
Sex: F
Status: incubating
Days Active: 619

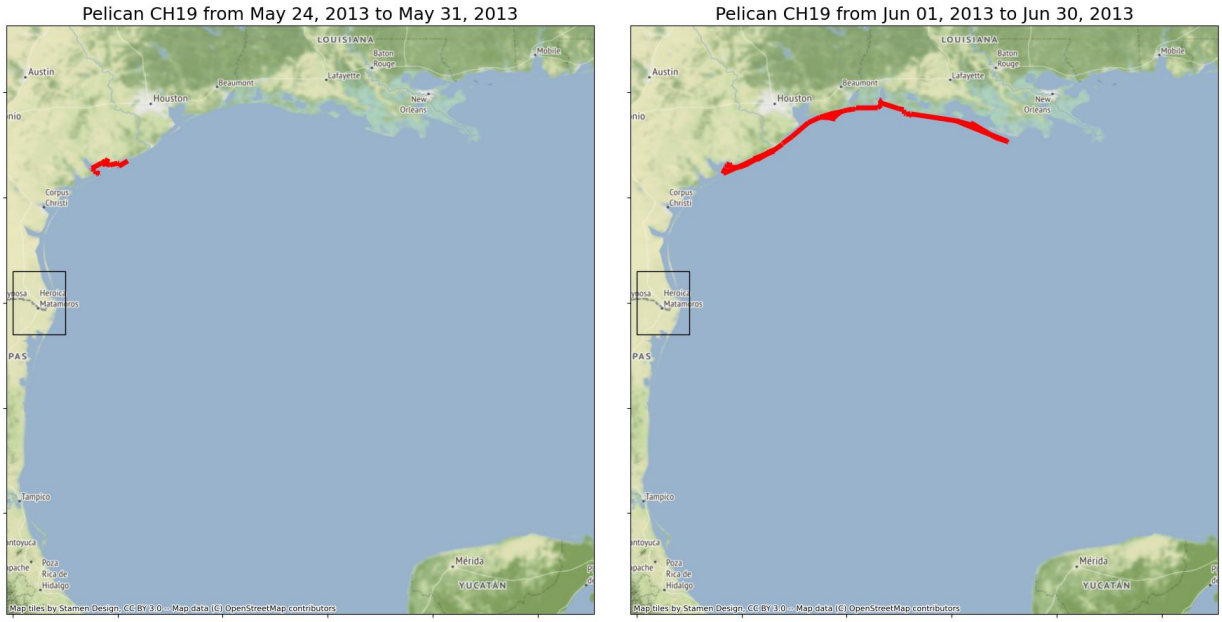

Figure 130 - Movements of CH19 between May 24, 2013 and June 30, 2013. Data from Lamb (2016)

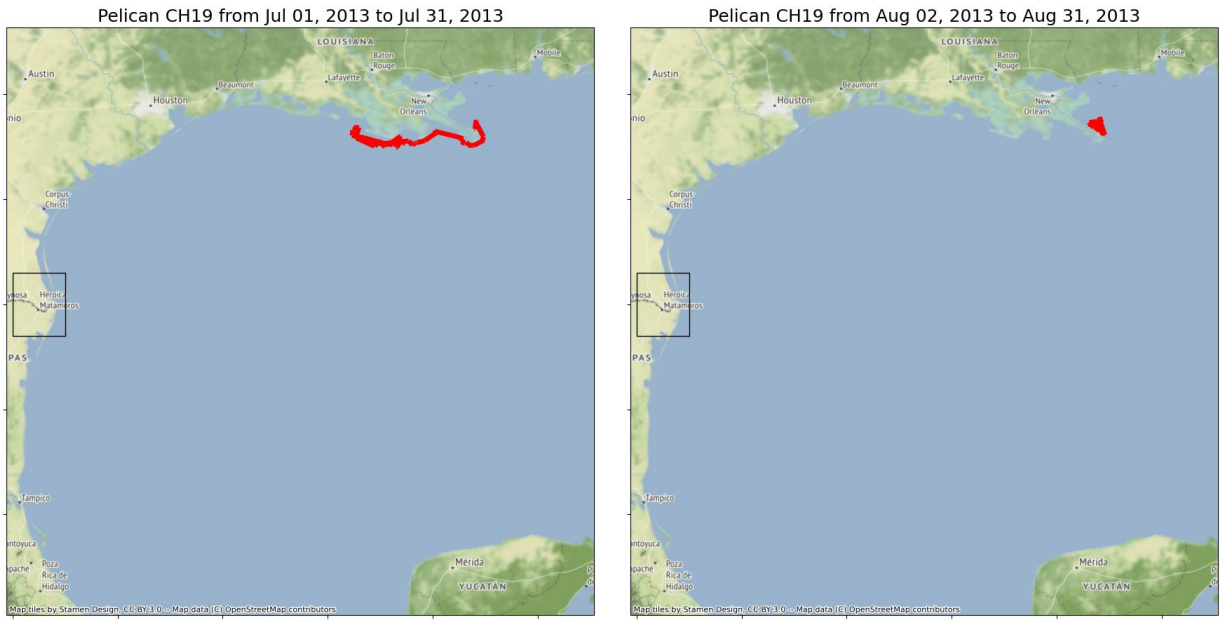

Figure 131 - Movements of CH19 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

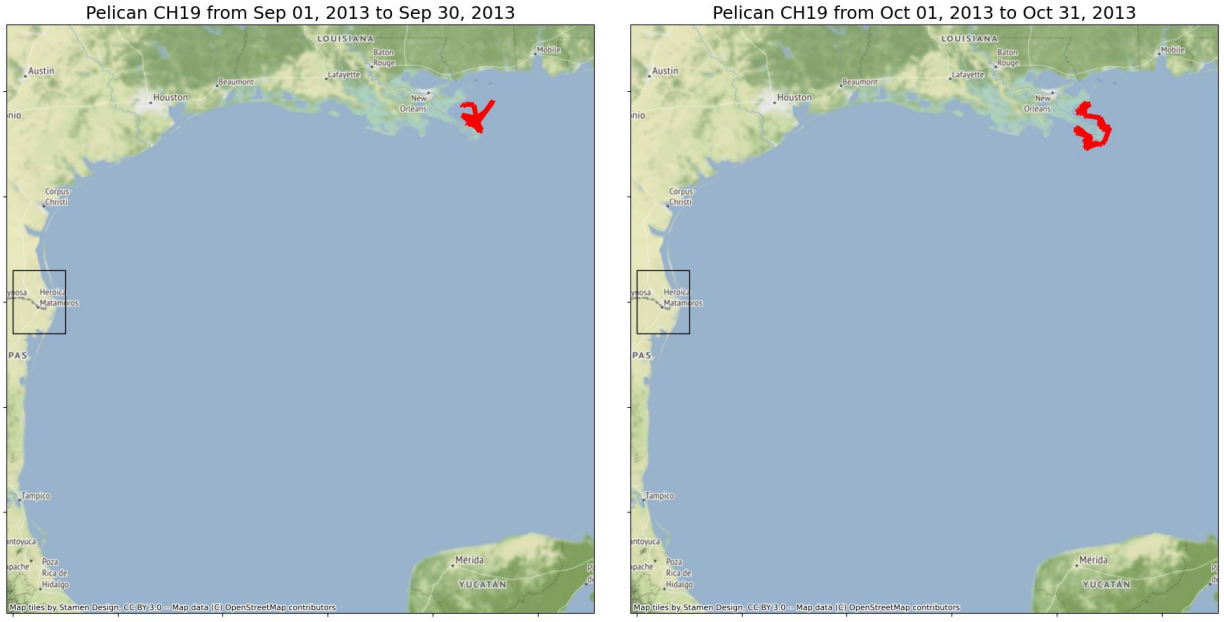

Figure 132 - Movements of CH19 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

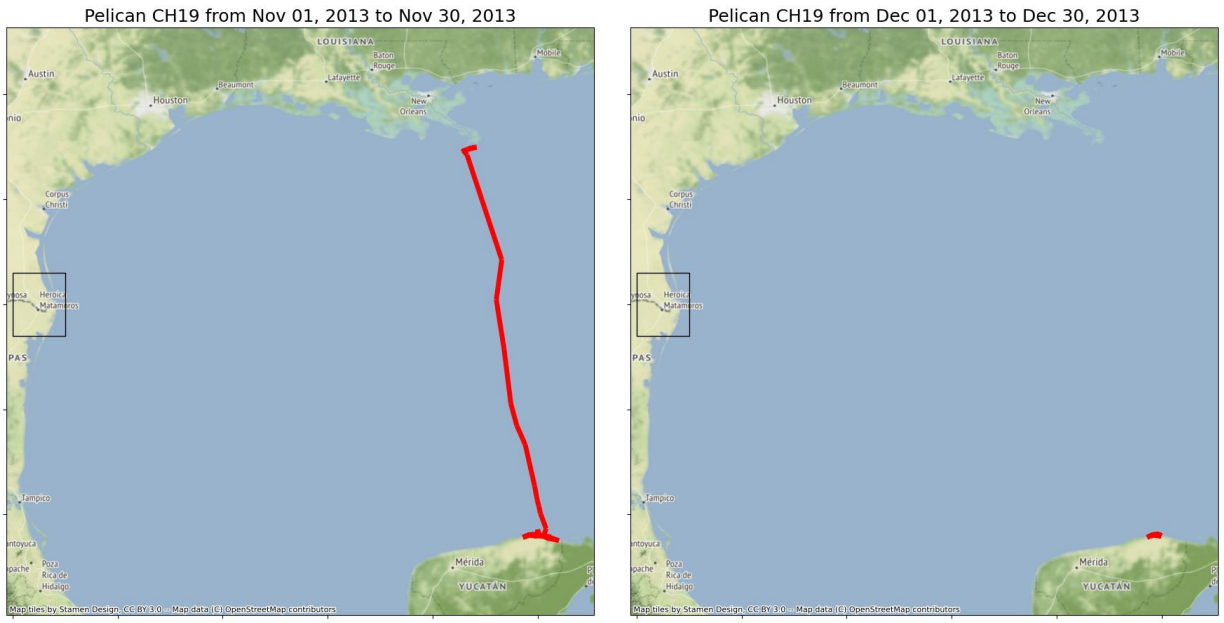

Figure 133 - Movements of CH19 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

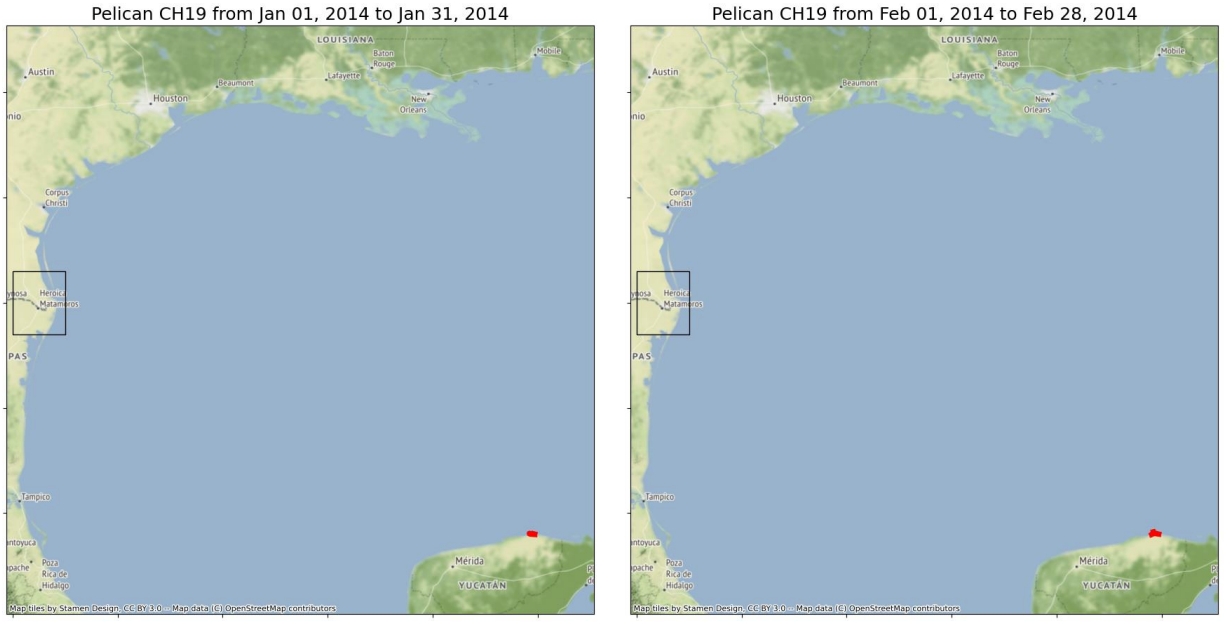

Figure 134 - Movements of CH19 between January 01, 2014 and February 28, 2014. Data from Lamb (2016)

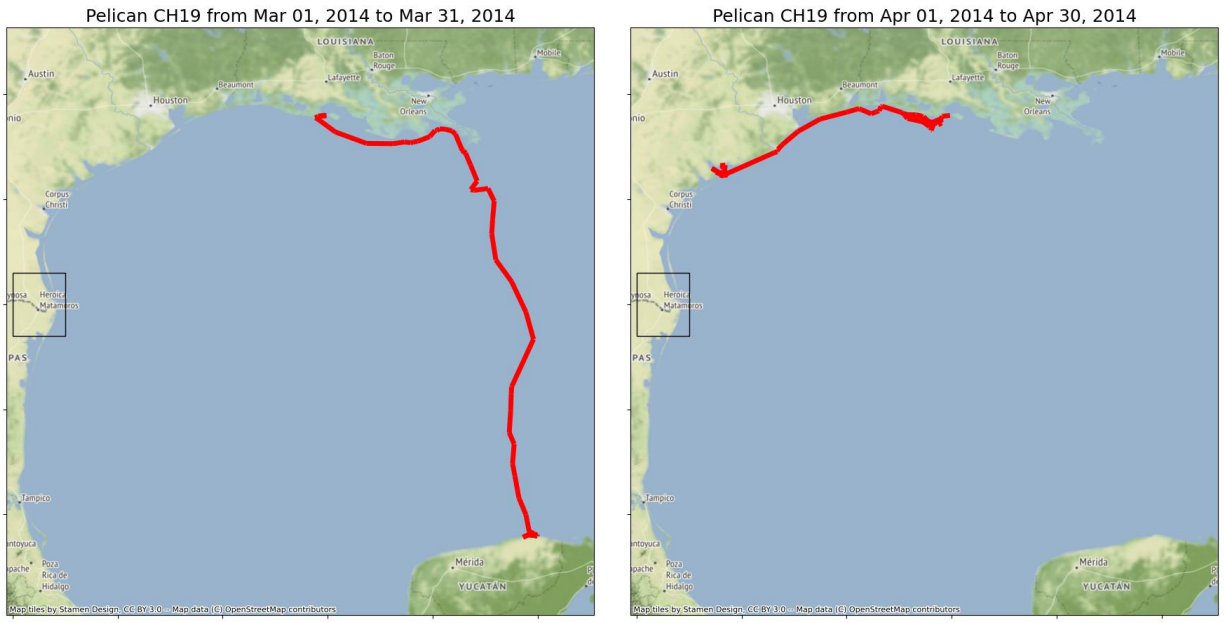

Figure 135 - Movements of CH19 between March 01, 2014 and April 30, 2014. Data from Lamb (2016)

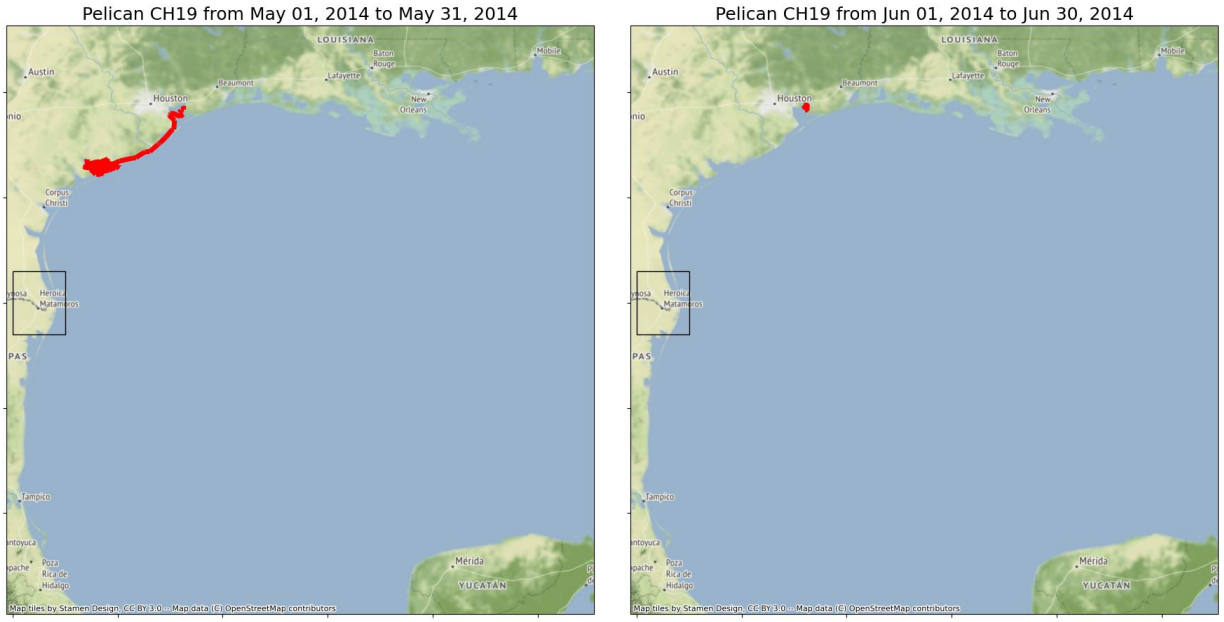

Figure 136 - Movements of CH19 between May 01, 2014 and June 30, 2014. Data from Lamb (2016)

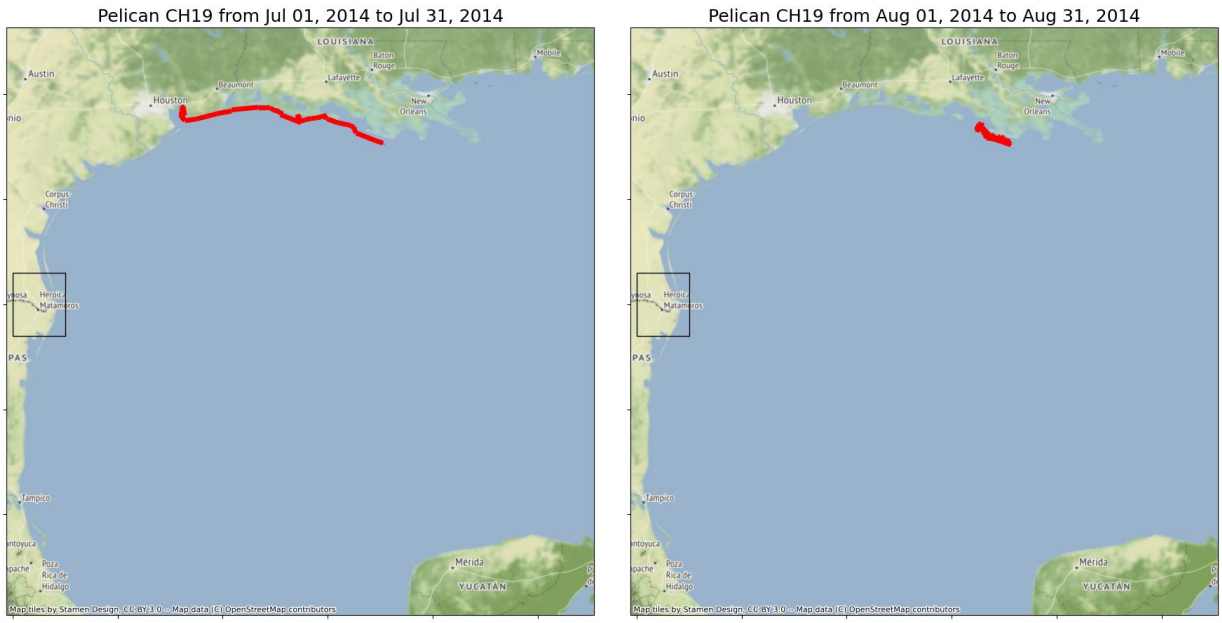

Figure 137 - Movements of CH19 between July 01, 2014 and August 31, 2014. Data from Lamb (2016)

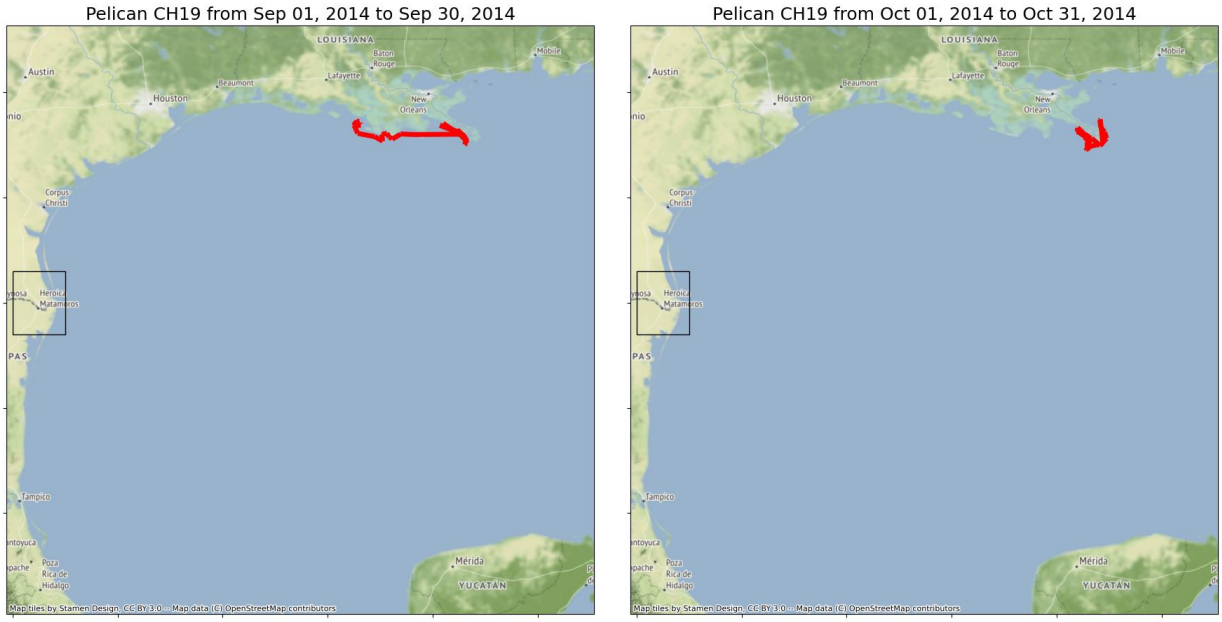

Figure 138 - Movements of CH19 between September 01, 2014 and October 31, 2014. Data from Lamb (2016)

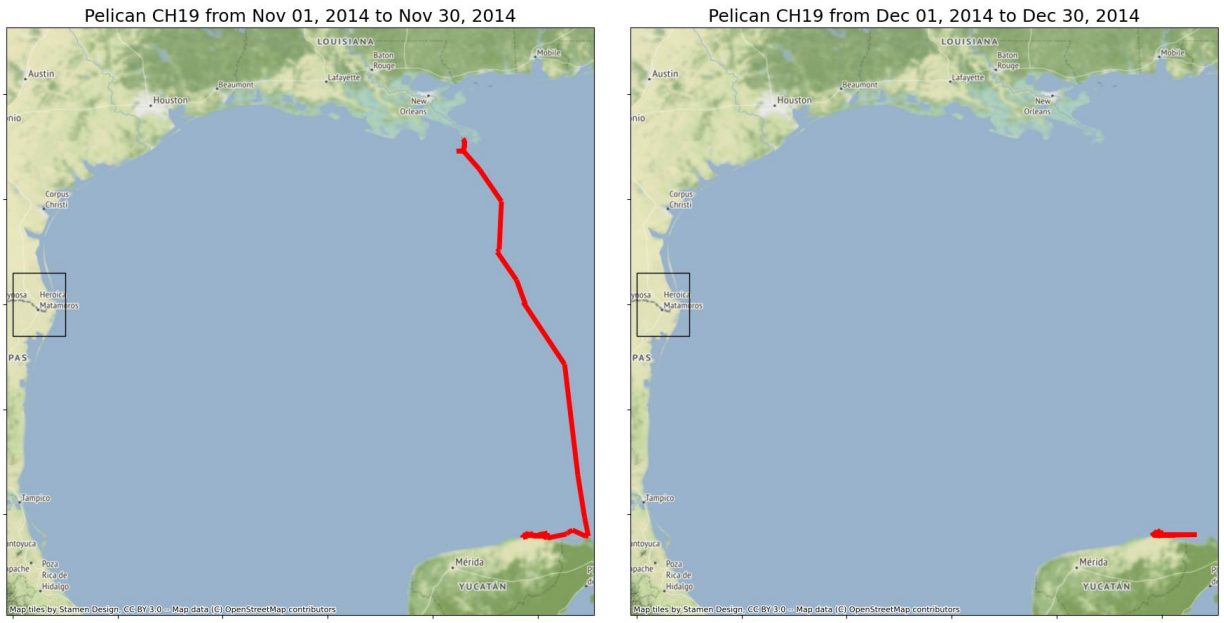

Figure 139 - Movements of CH19 between November 01, 2014 and December 30, 2014. Data from Lamb (2016)

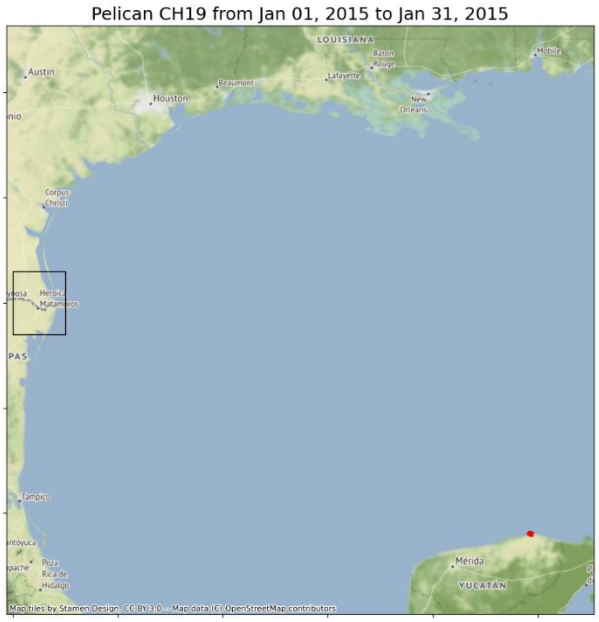

Figure 140 - Movements of CH19 between January 01, 2015 and January 31, 2015. Data from Lamb (2016)

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Pelican CH20 – Active from May 2013 to January 2014

Capture Date: May 24, 2013
Capture Location: Chester (Texas)
Sex: F
Status: incubating
Days Active: 221

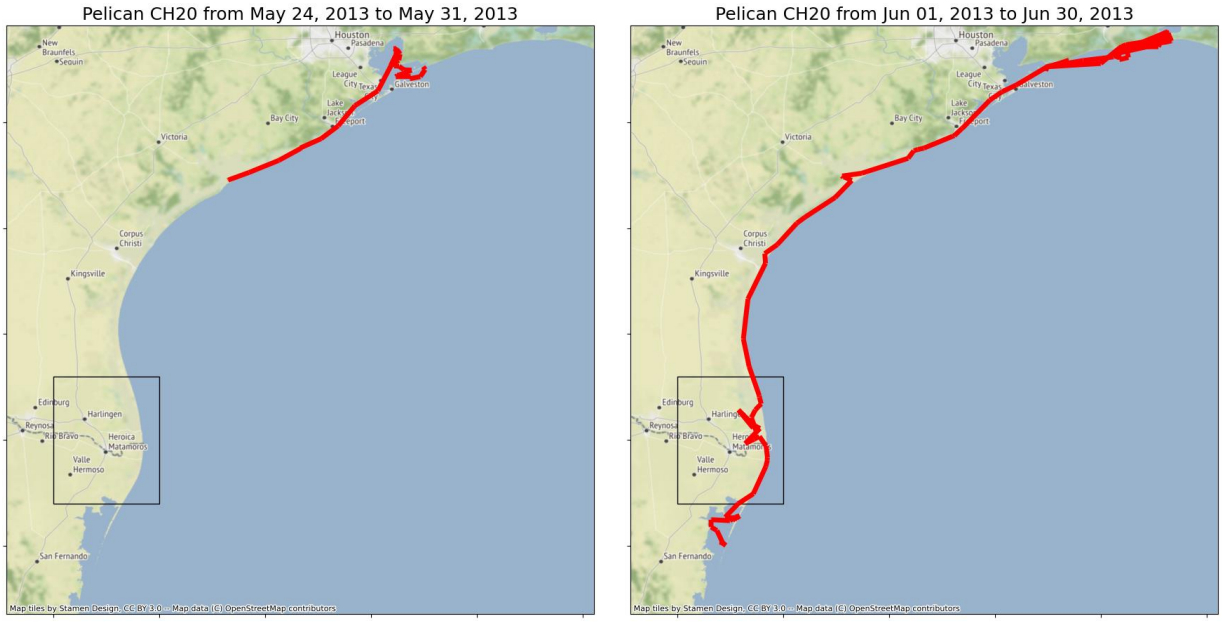
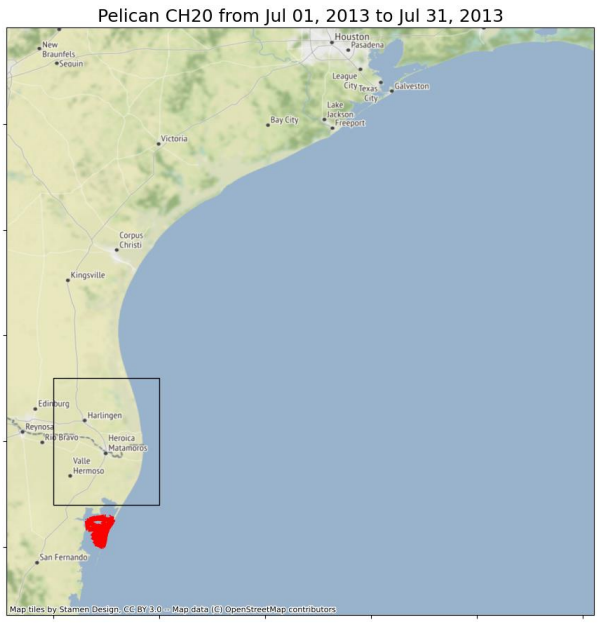


Figure 141 - Movements of CH20 between May 24, 2013 and June 30, 2013. Data from Lamb (2016)



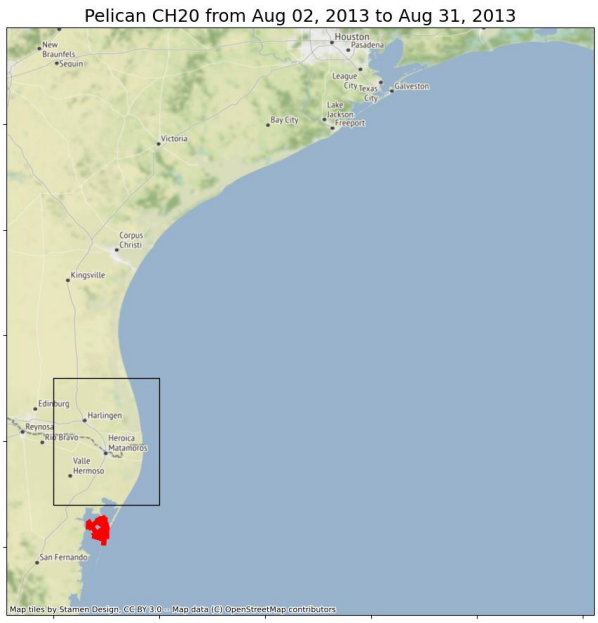
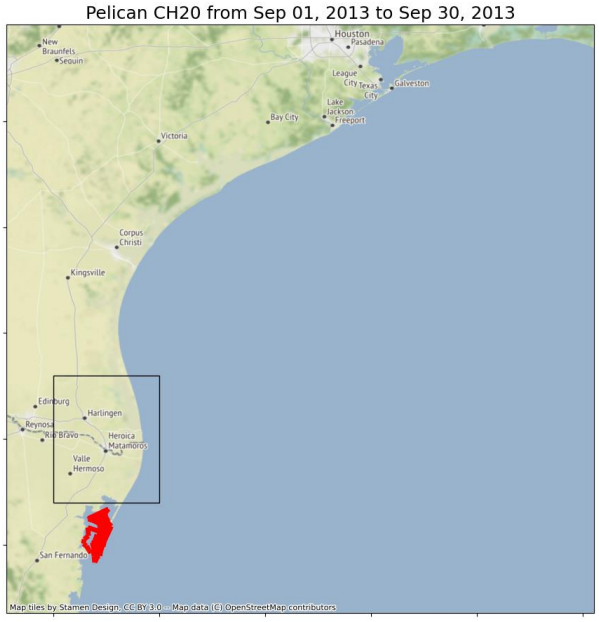


Figure 142 - Movements of CH20 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)



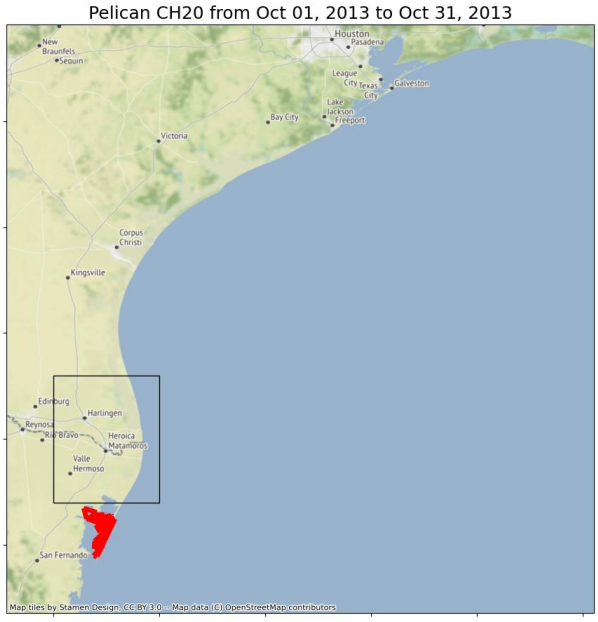


Figure 143 - Movements of CH20 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

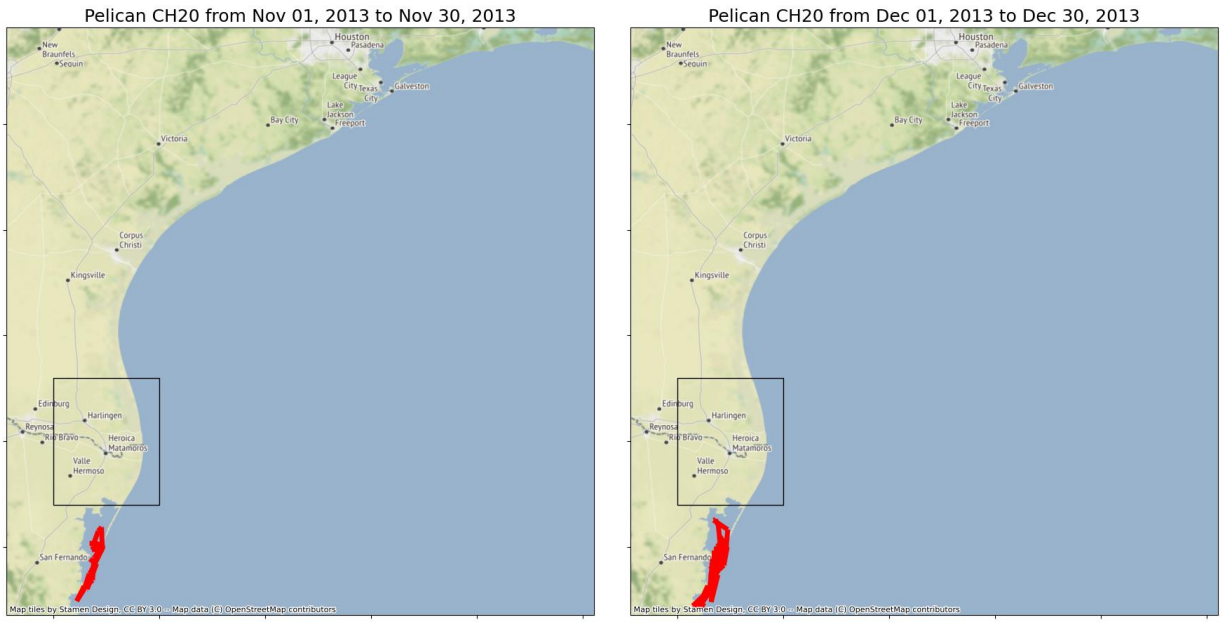


Figure 144 - Movements of CH20 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

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Pelican CH21 – Active from May 2013 to January 2014

Capture Date: May 24, 2013
Capture Location: Chester (Texas)
Sex: F
Status: incubating
Days Active: 231

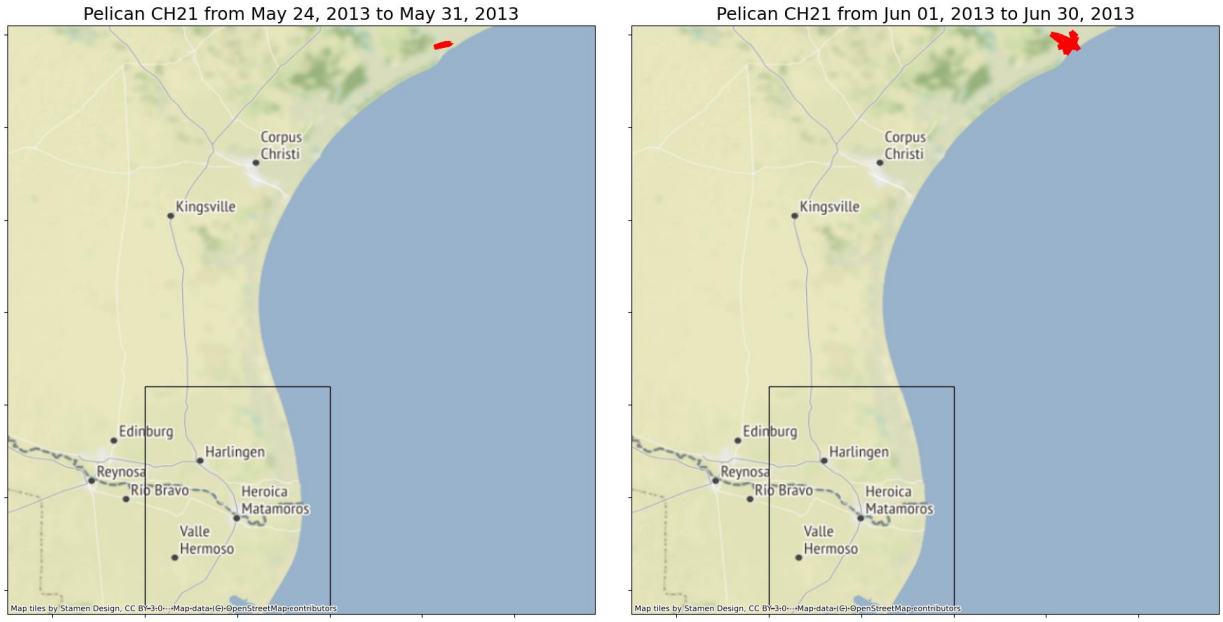

Figure 145 - Movements of CH21 between May 24, 2013 and June 30, 2013. Data from Lamb (2016)

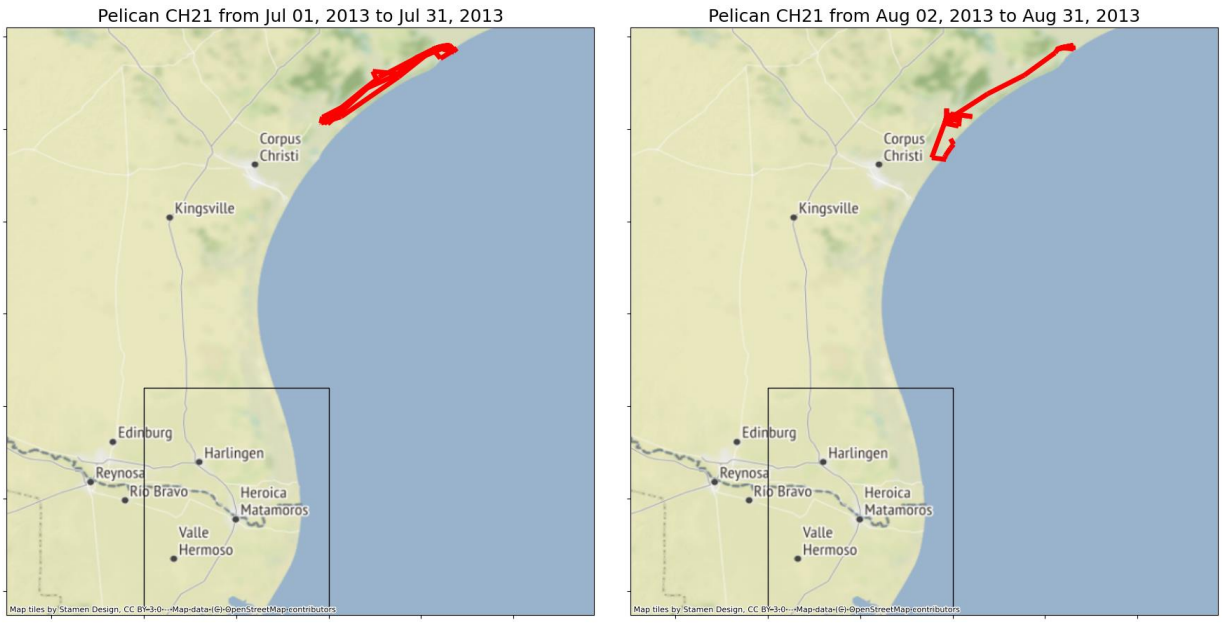

Figure 146 - Movements of CH21 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

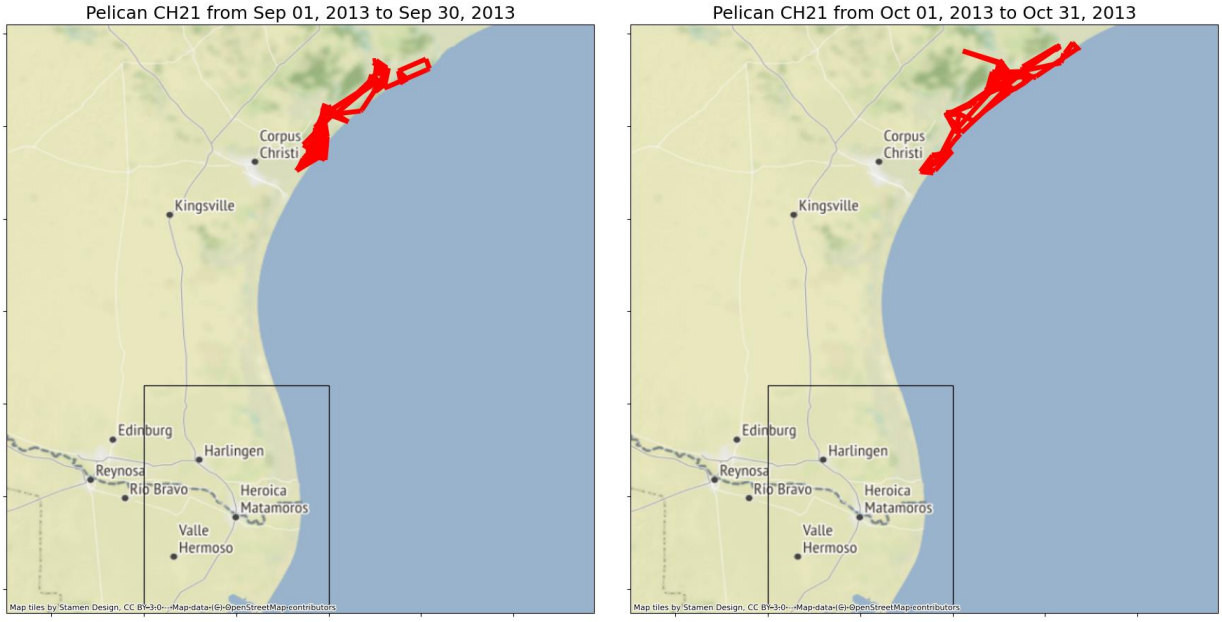

Figure 147 - Movements of CH21 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

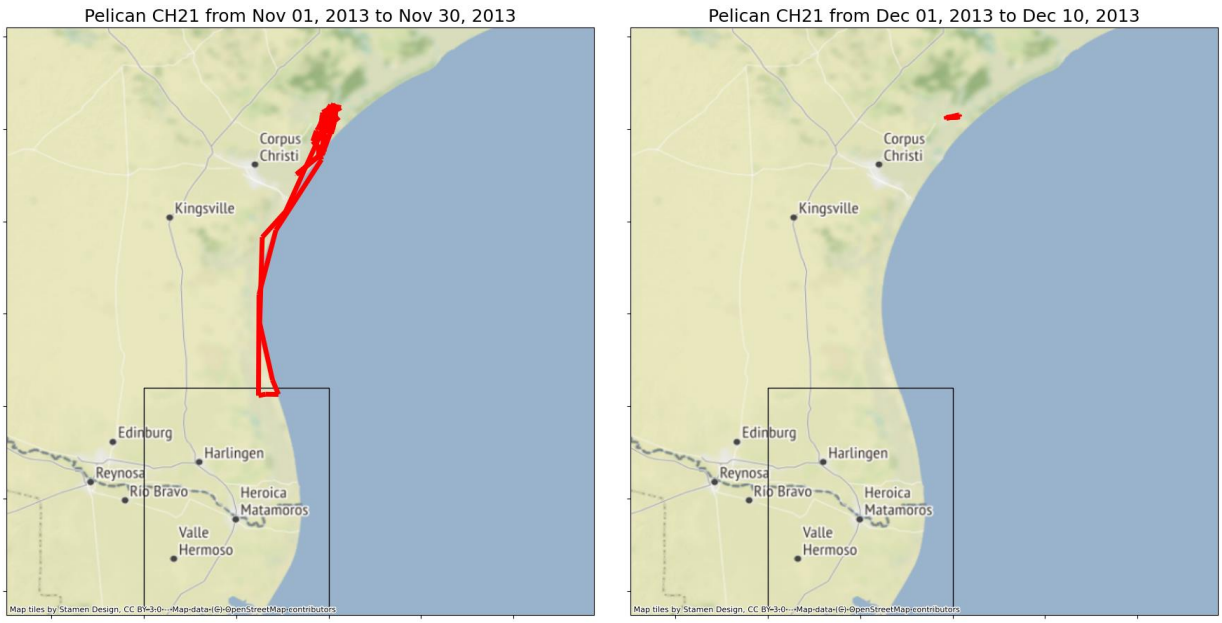

Figure 148 - Movements of CH21 between November 01, 2013 and December 10, 2013. Data from Lamb (2016)

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Pelican CH22 – Active from May 2013 to February 2014

Capture Date: May 25, 2013
Capture Location: Chester (Texas)
Sex: F
Status: incubating
Days Active: 256

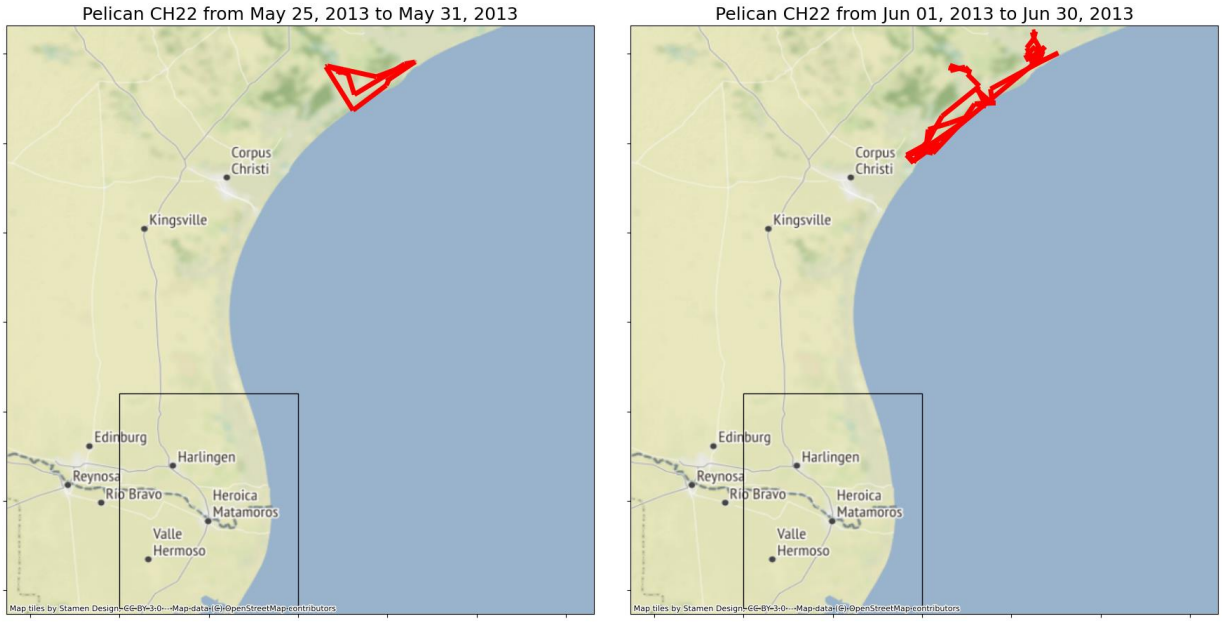

Figure 149 - Movements of CH22 between May 25, 2013 and June 30, 2013. Data from Lamb (2016)

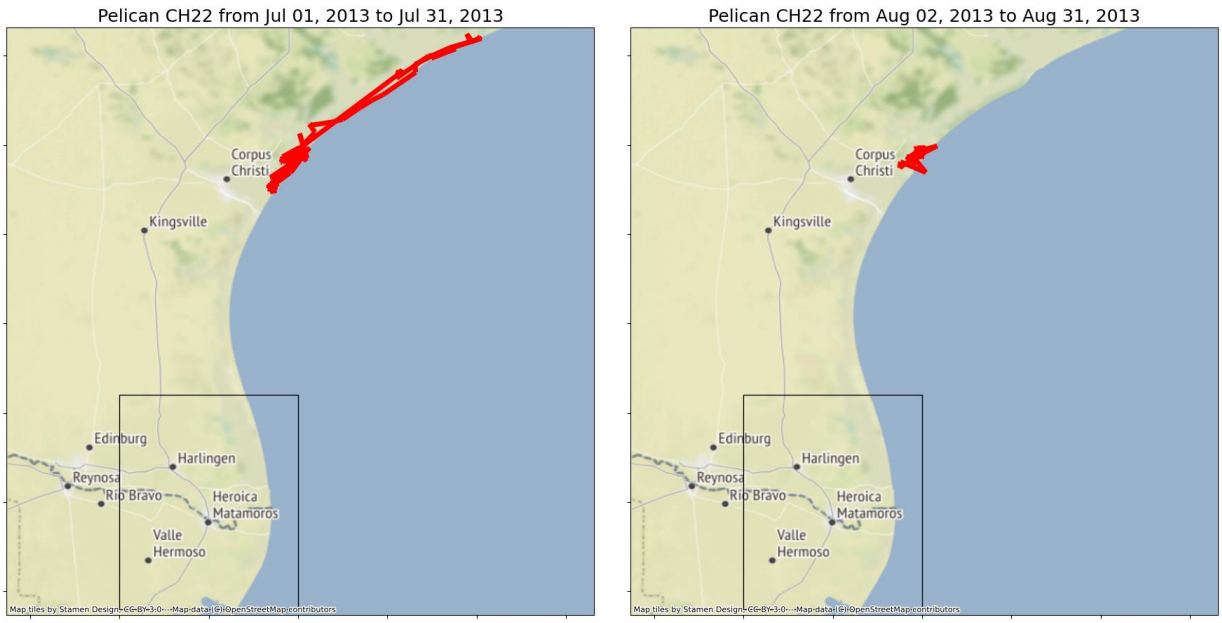

Figure 150 - Movements of CH22 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

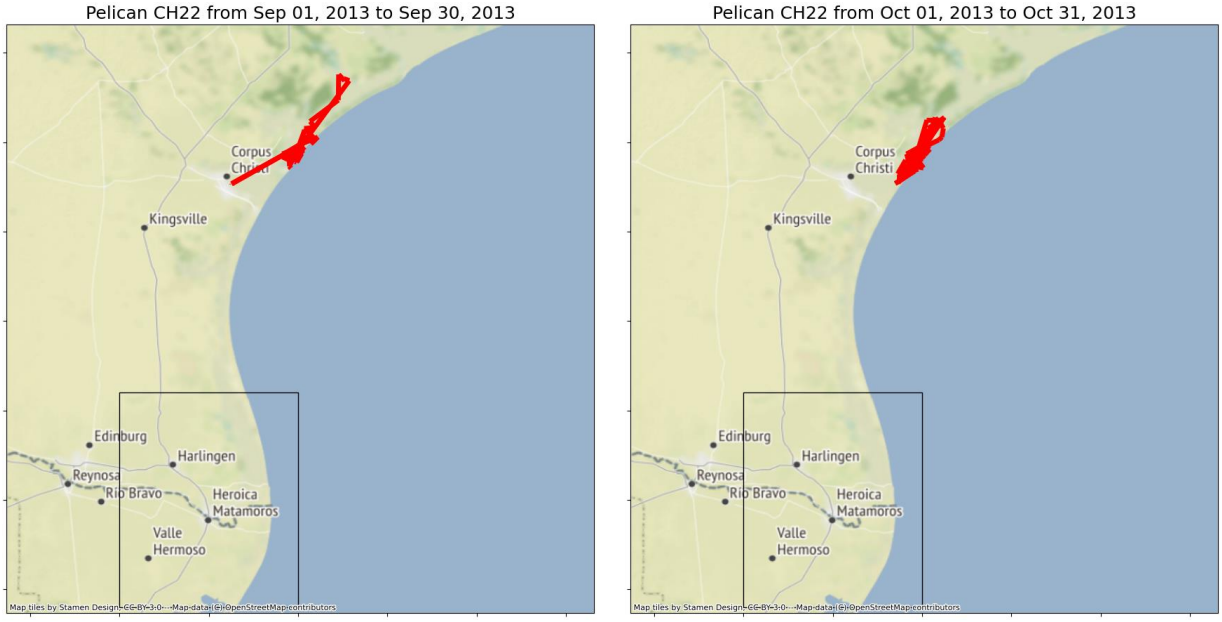

Figure 151 - Movements of CH22 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

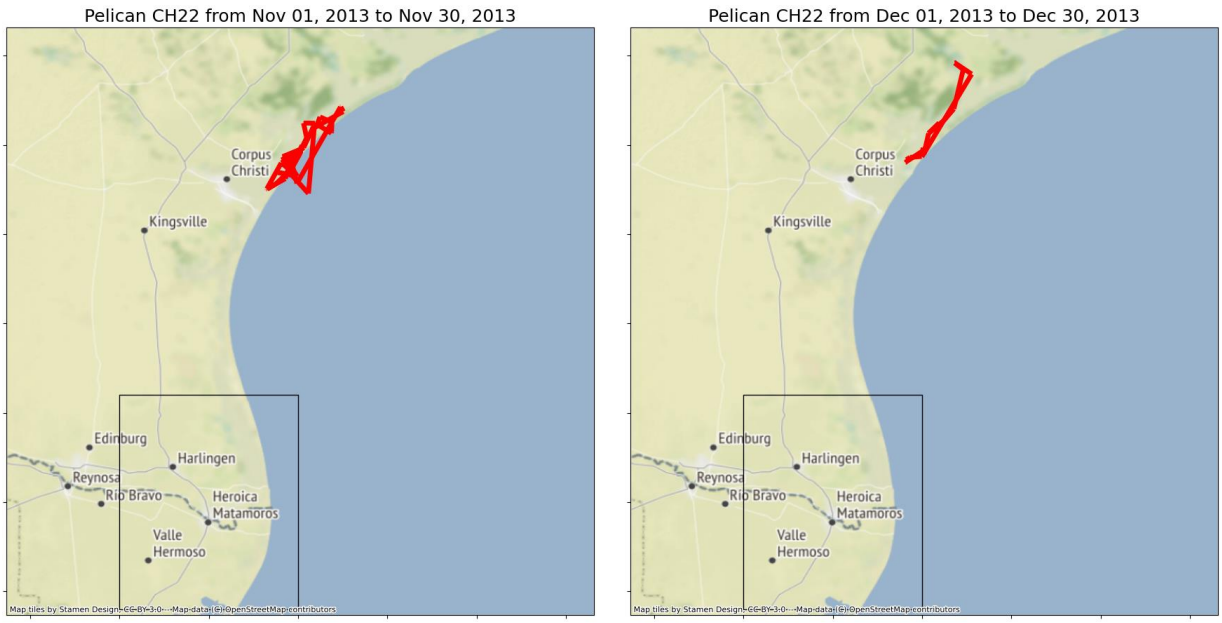

Figure 152 - Movements of CH22 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

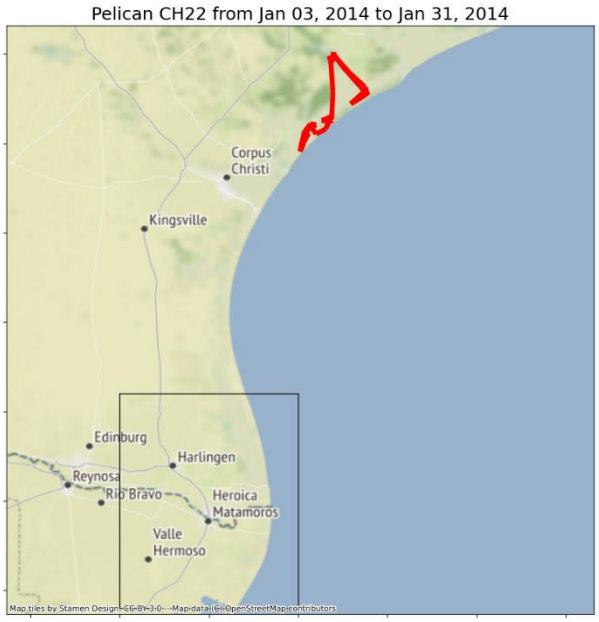

Figure 153 - Movements of CH22 between January 03, 2014 and January 31, 2014. Data from Lamb (2016)

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Pelican CH23 – Active from May 2013 to December 2013

Capture Date: May 25, 2013
Capture Location: Chester (Texas)
Sex: M
Status: incubating
Days Active: 194

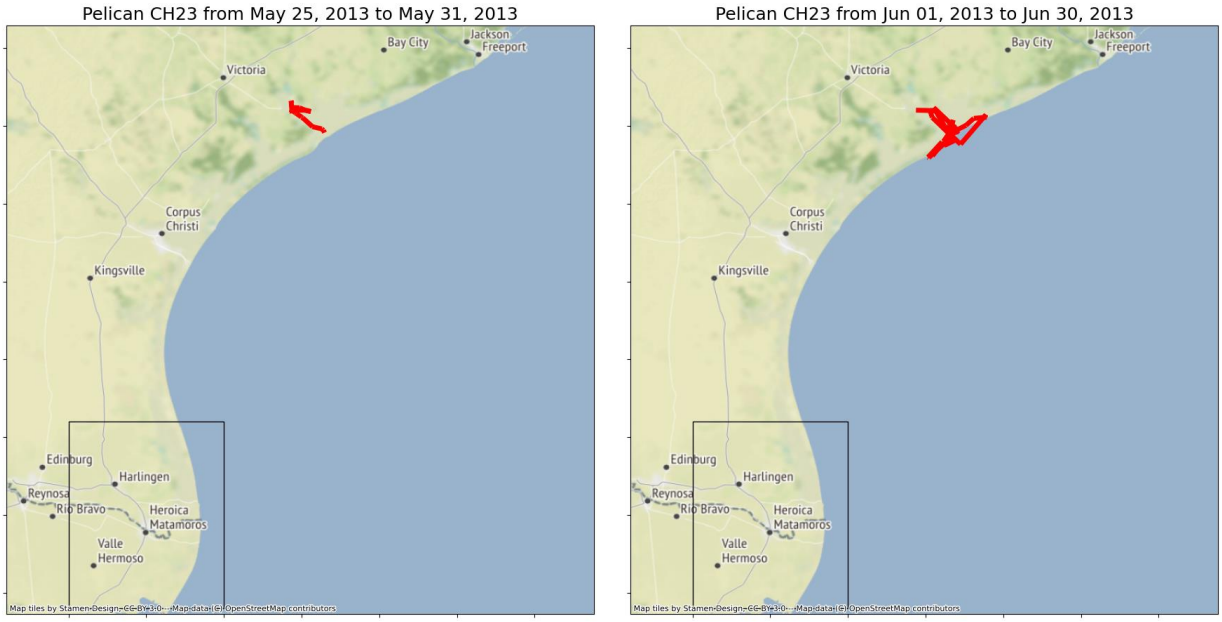

Figure 154 - Movements of CH23 between May 25, 2013 and June 30, 2013. Data from Lamb (2016)

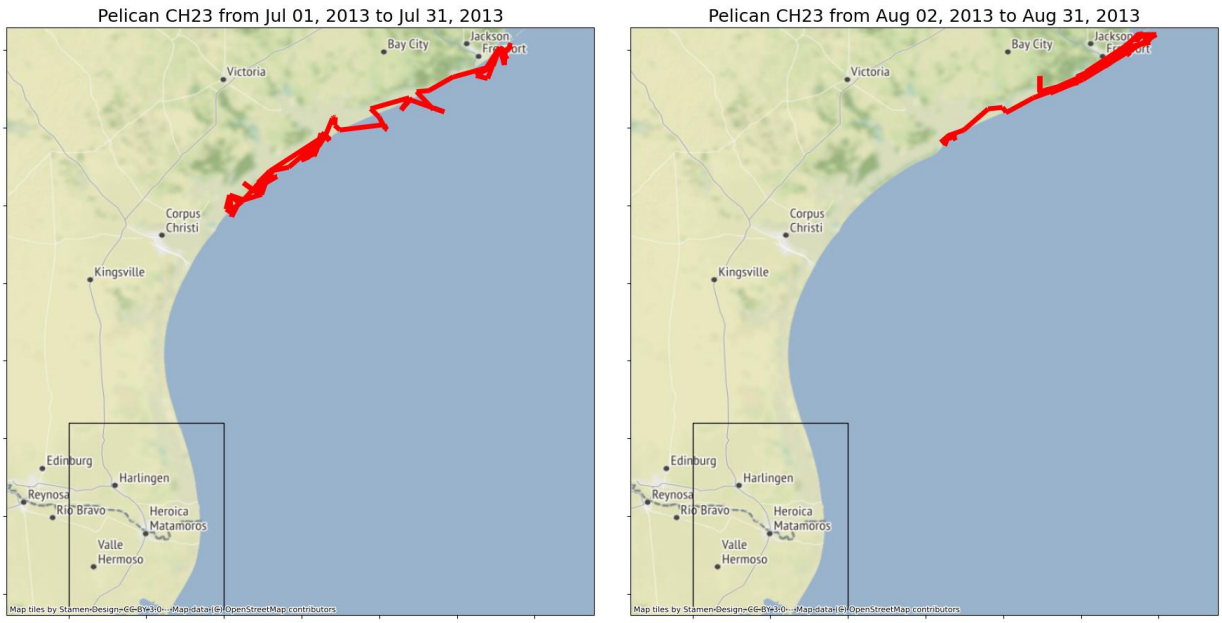

Figure 155 - Movements of CH23 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

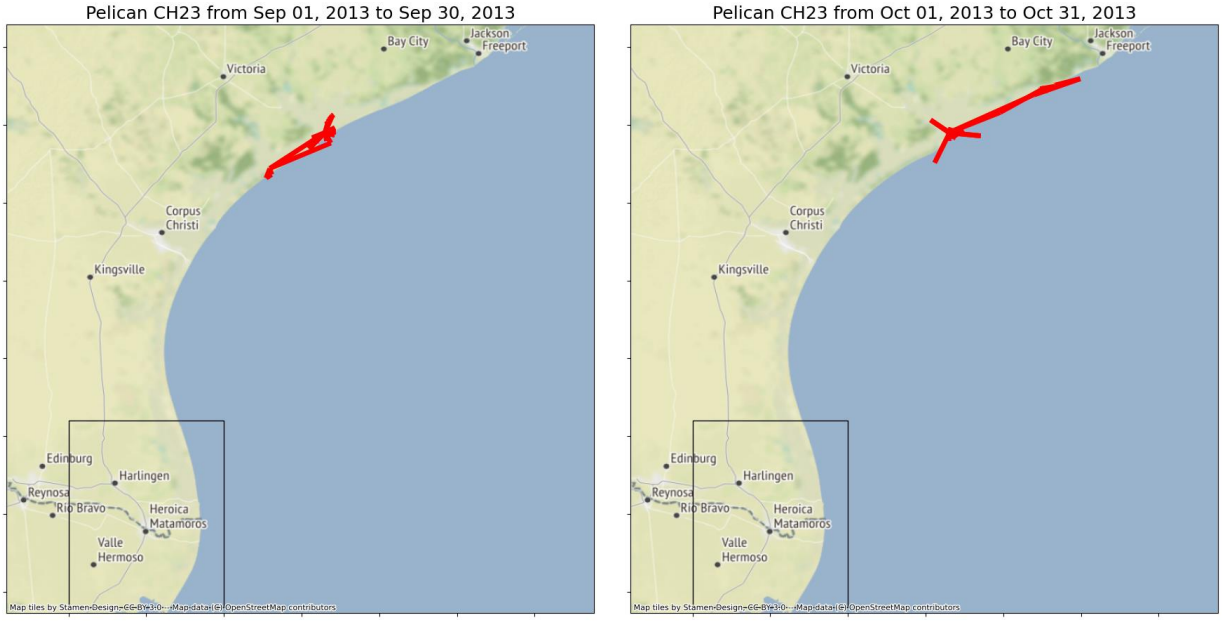

Figure 156 - Movements of CH23 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

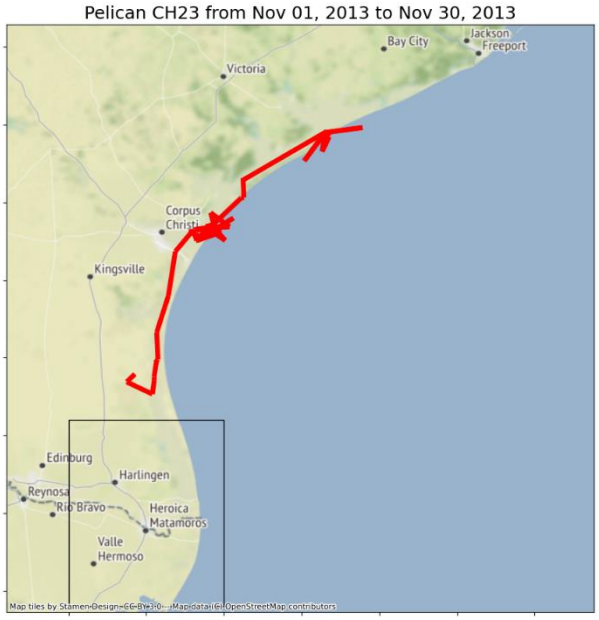

Figure 157 - Movements of CH23 between November 01, 2013 and November 30, 2013. Data from Lamb (2016)

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Pelican CH24 – Active from May 2013 to April 2015

Capture Date: May 25, 2013
Capture Location: Chester (Texas)
Sex: M
Status: incubating
Days Active: 683

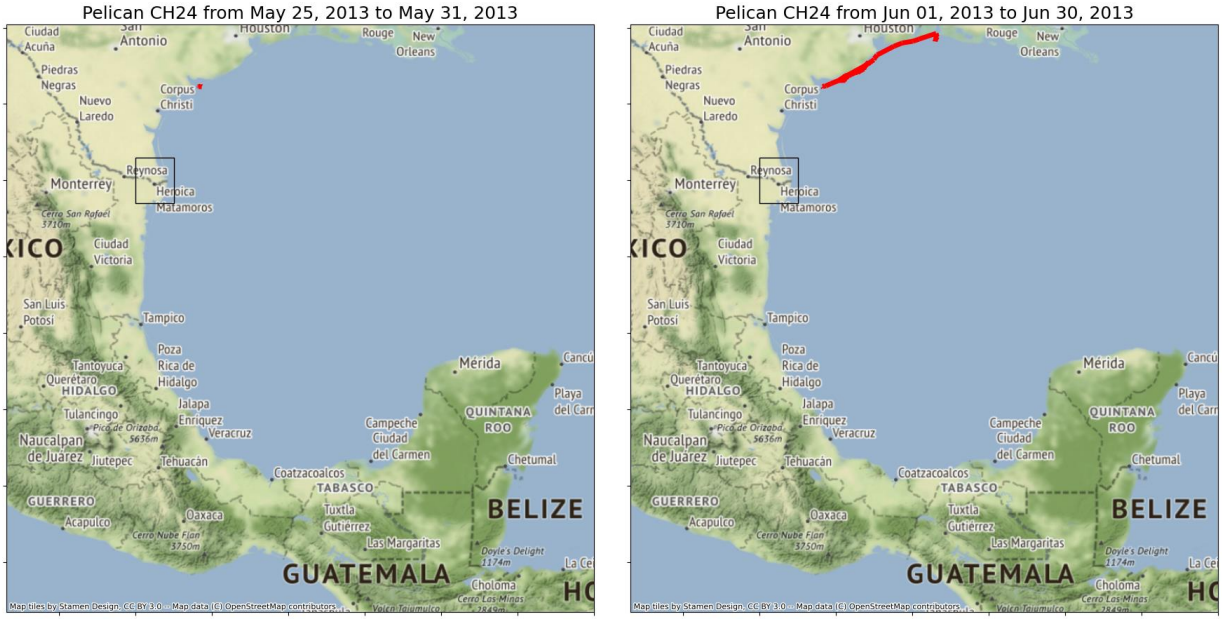

Figure 158 - Movements of CH24 between May 25, 2013 and June 30, 2013. Data from Lamb (2016)

Figure 159 - Movements of CH24 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

Figure 160 - Movements of CH24 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

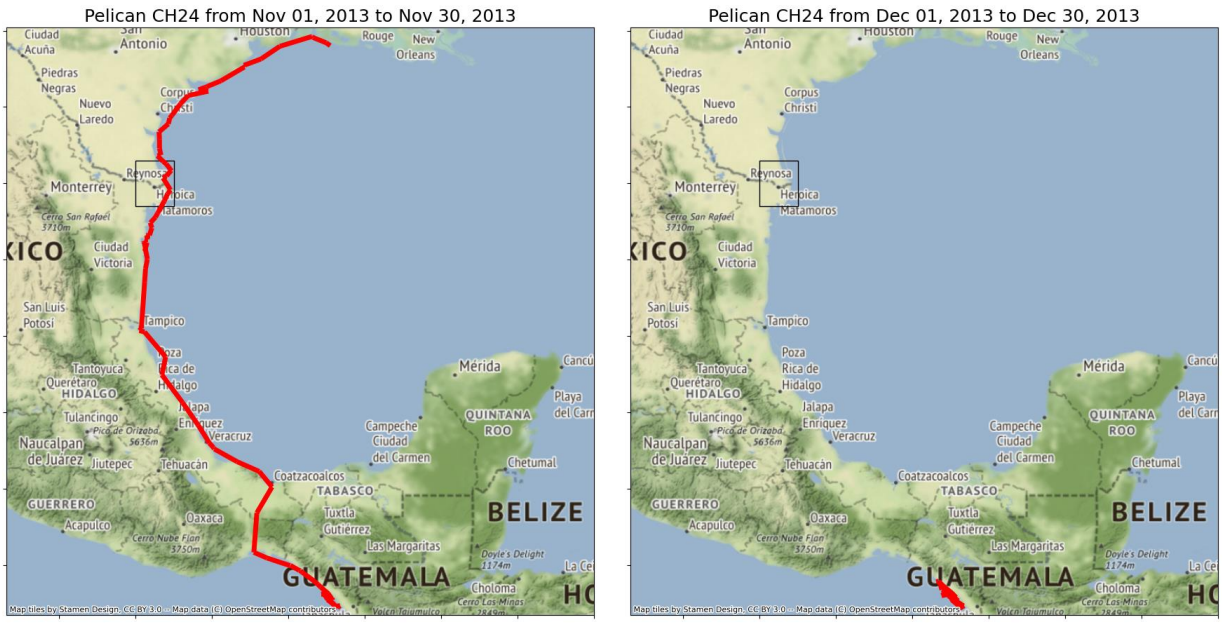

Figure 161 - Movements of CH24 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

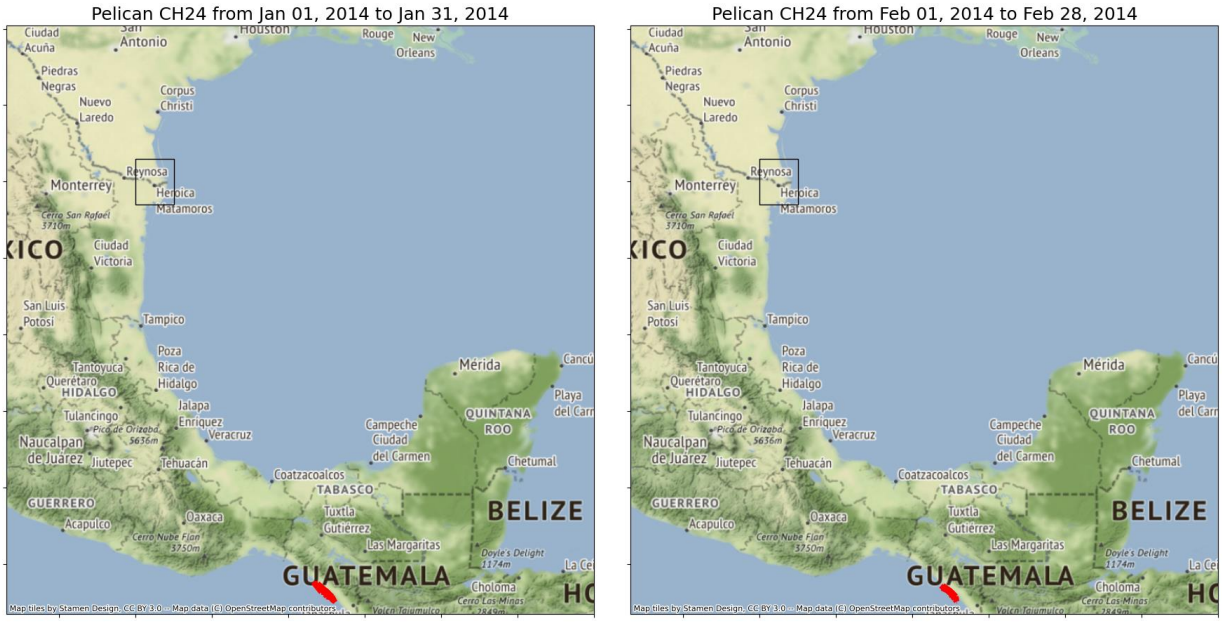

Figure 162 - Movements of CH24 between January 01, 2014 and February 28, 2014. Data from Lamb (2016)

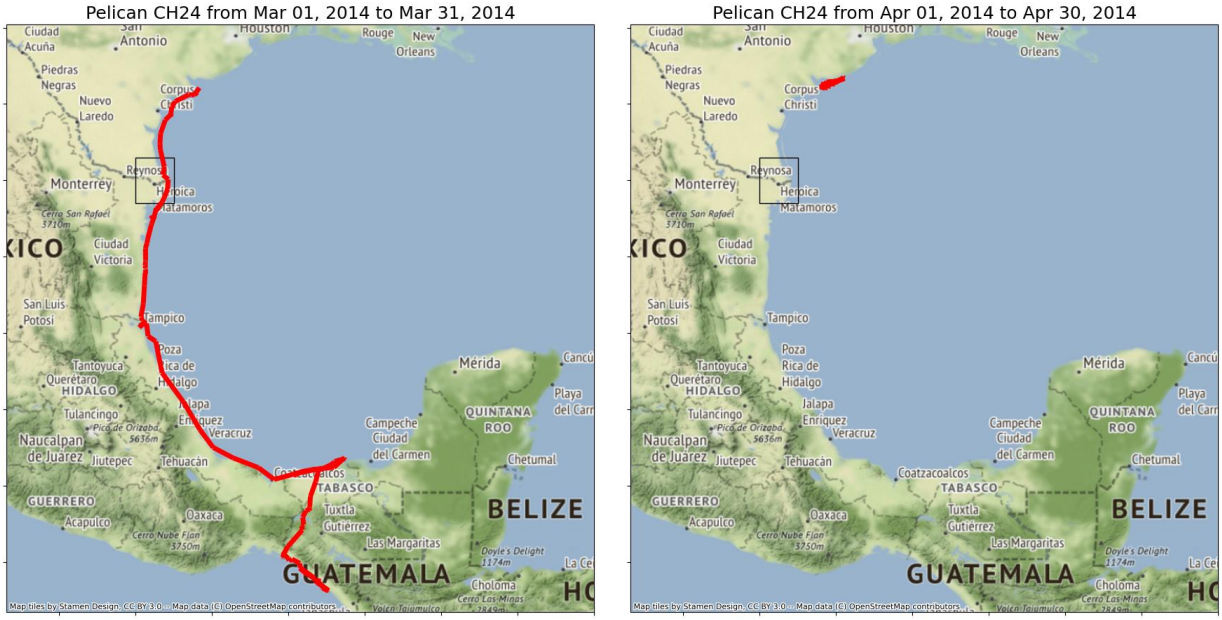

Figure 163 - Movements of CH24 between March 01, 2014 and April 30, 2014. Data from Lamb (2016)

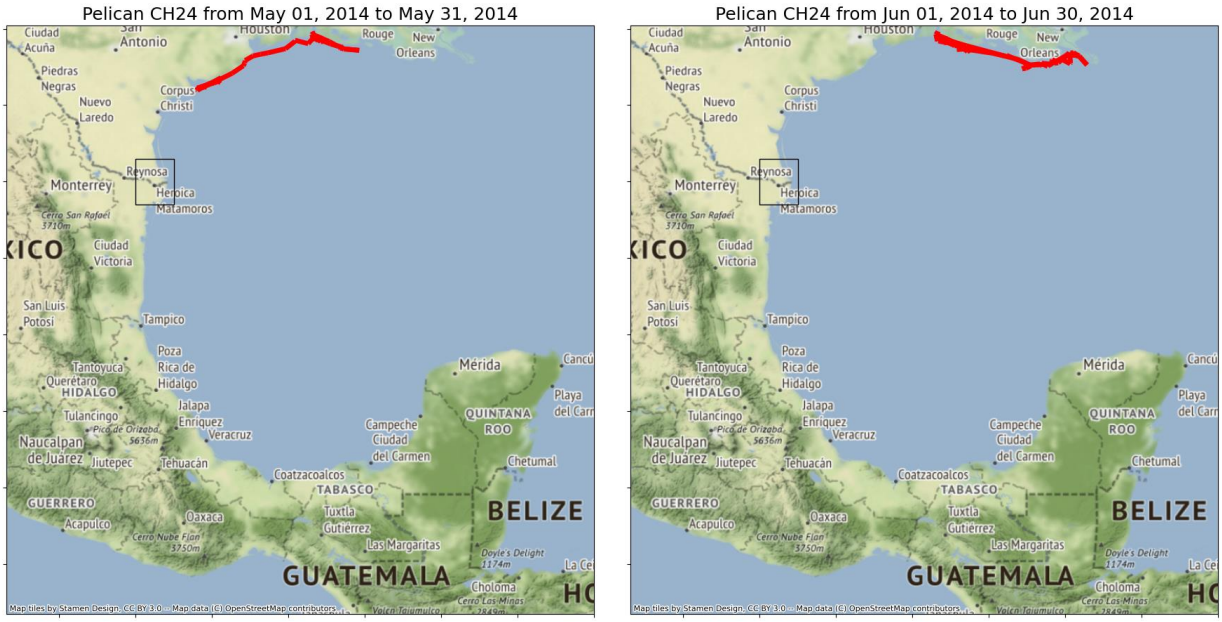

Figure 164 - Movements of CH24 between May 01, 2014 and June 30, 2014. Data from Lamb (2016)

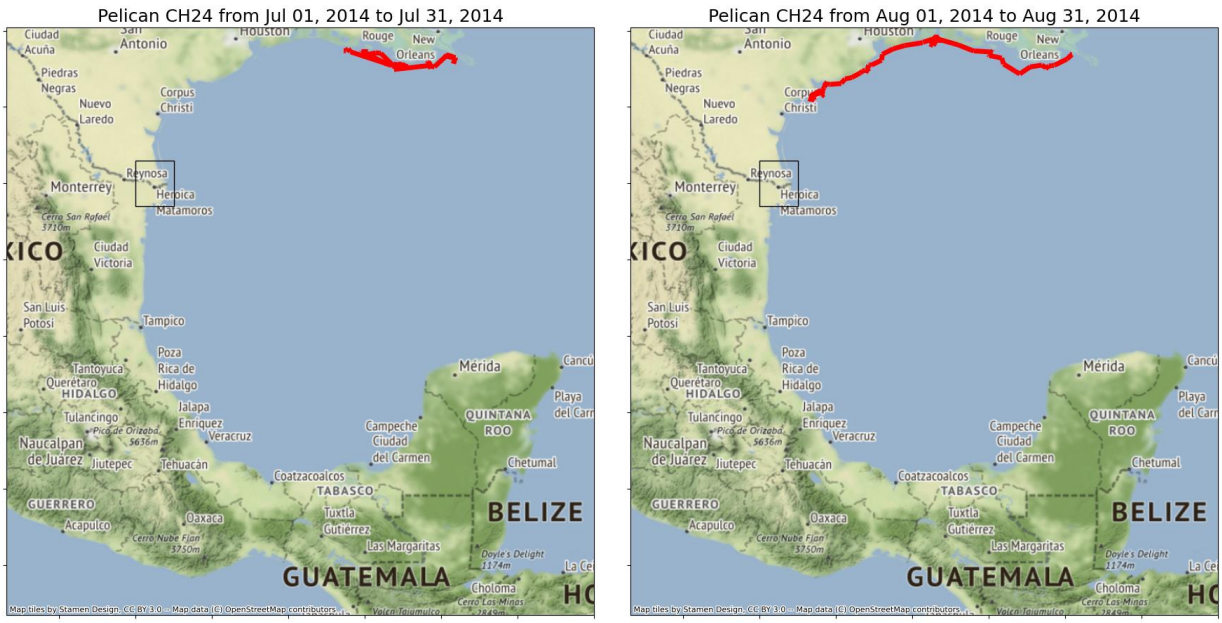

Figure 165 - Movements of CH24 between July 01, 2014 and August 31, 2014. Data from Lamb (2016)

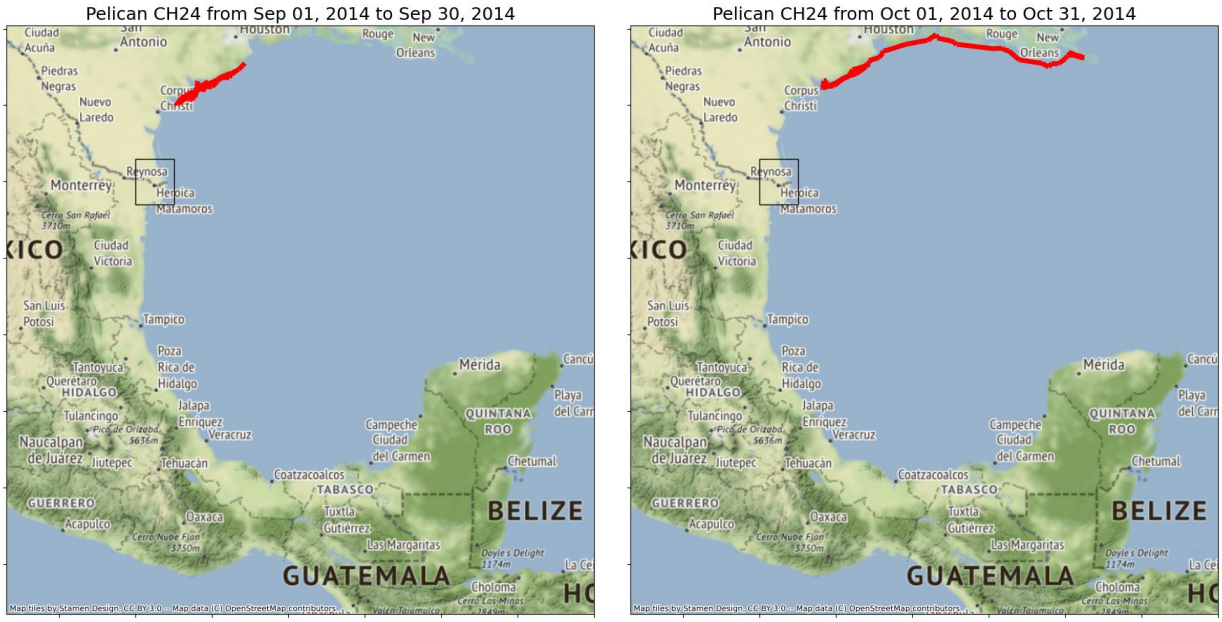

Figure 166 - Movements of CH24 between September 01, 2014 and October 31, 2014. Data from Lamb (2016)

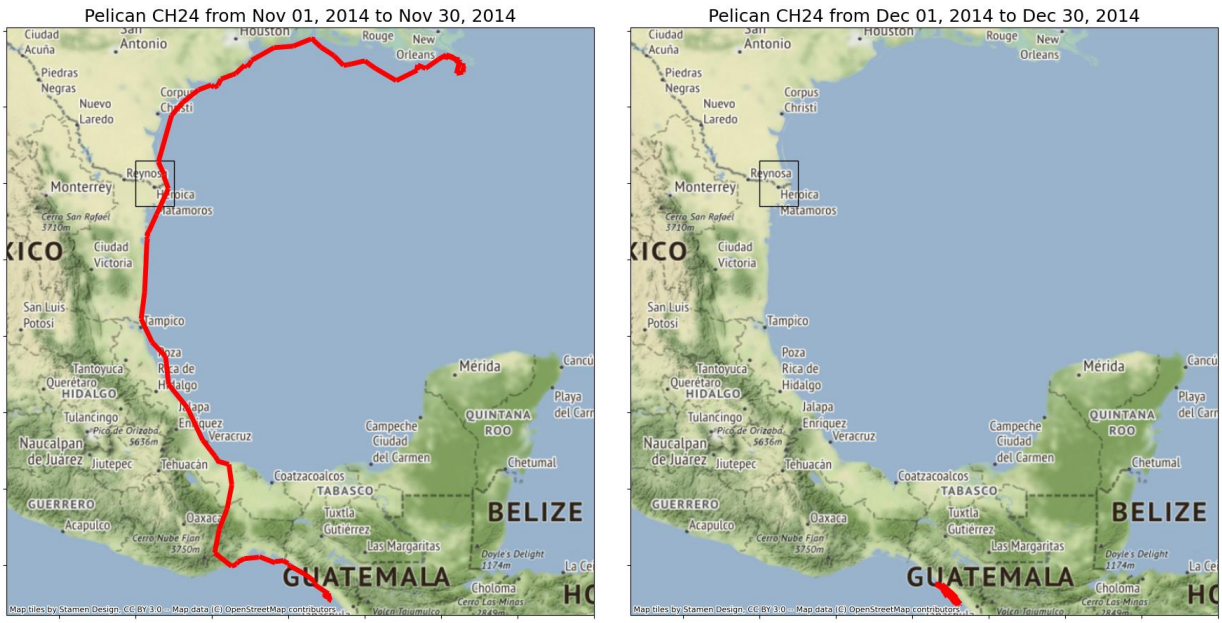

Figure 167 - Movements of CH24 between November 01, 2014 and December 30, 2014. Data from Lamb (2016)

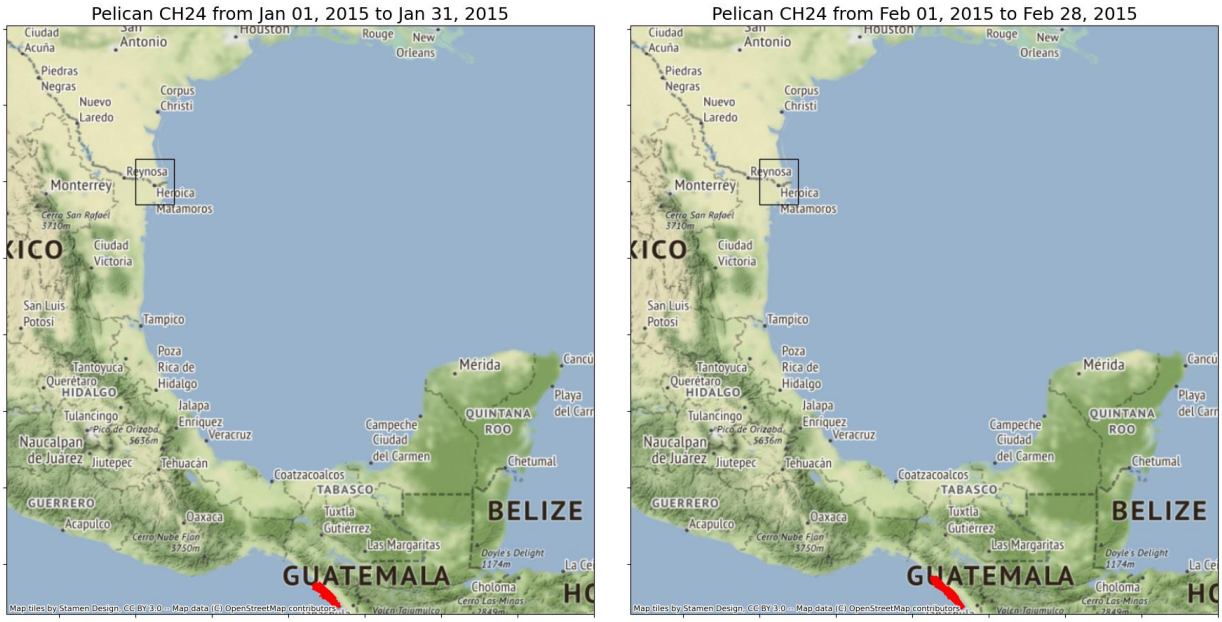

Figure 168 - Movements of CH24 between January 01, 2015 and February 28, 2015. Data from Lamb (2016)

Figure 169 - Movements of CH24 between March 01, 2015 and March 31, 2015. Data from Lamb (2016)

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Pelican CH25 – Active from May 2013 to January 2016

Capture Date: May 25, 2013
Capture Location: Chester (Texas)
Sex: M
Status: incubating
Days Active: 981

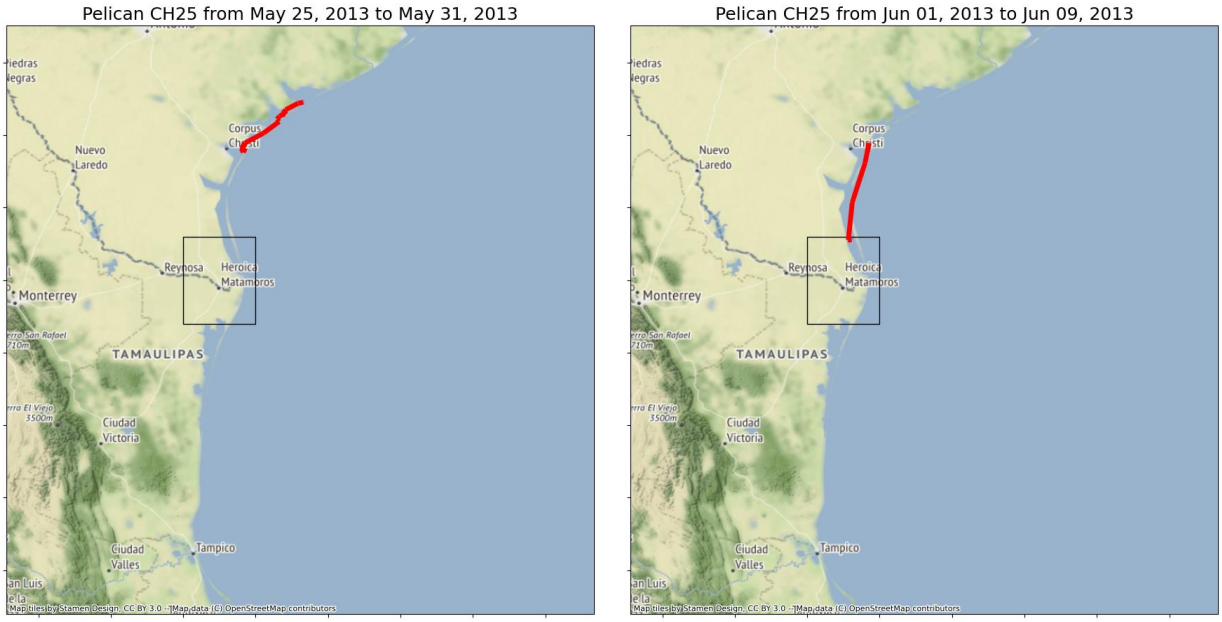

Figure 170 - Movements of CH25 between May 25, 2013 and June 09, 2013. Data from Lamb (2016)

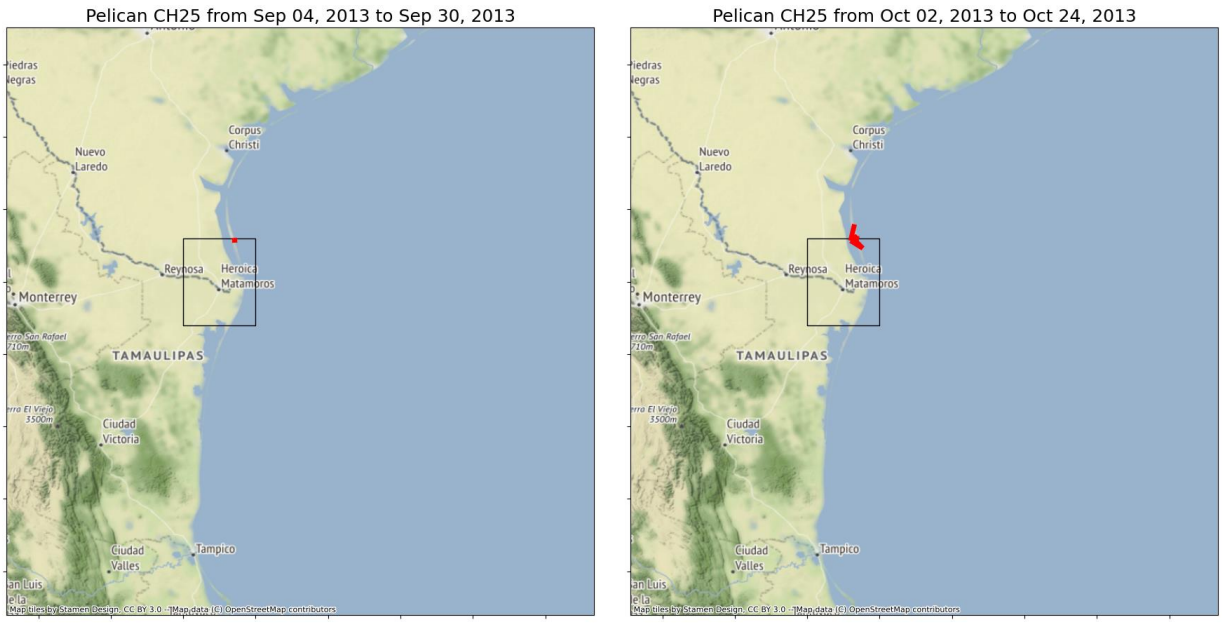

Figure 171 - Movements of CH25 between September 04, 2013 and October 24, 2013. Data from Lamb (2016)

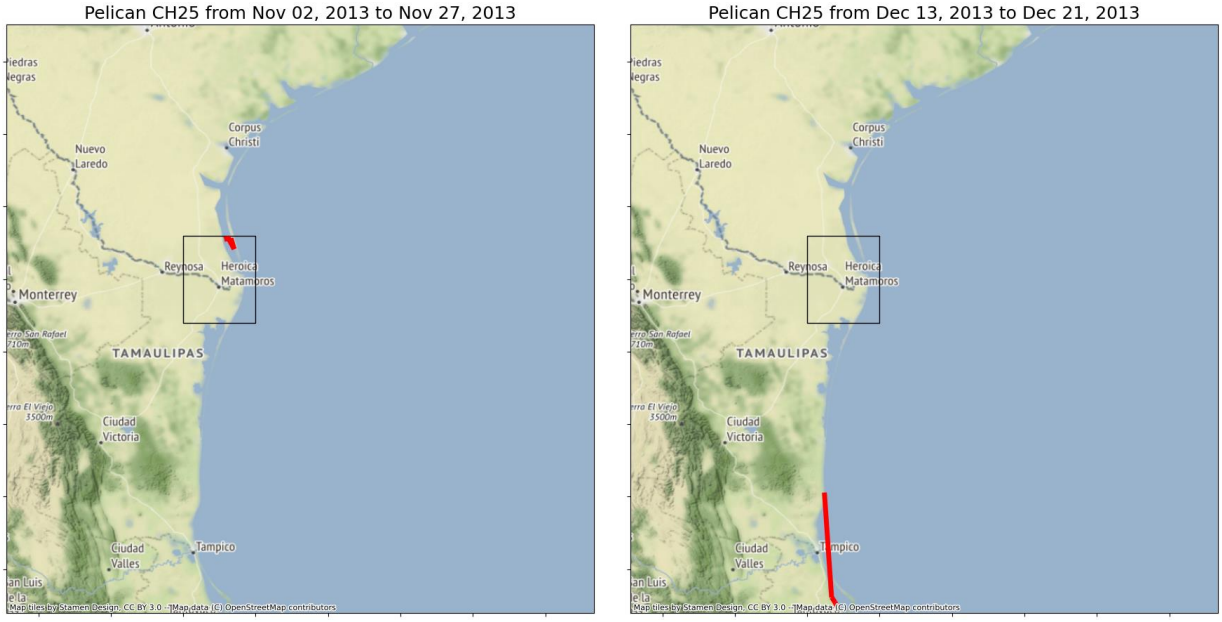

Figure 172 - Movements of CH25 between November 02, 2013 and December 21, 2013. Data from Lamb (2016)

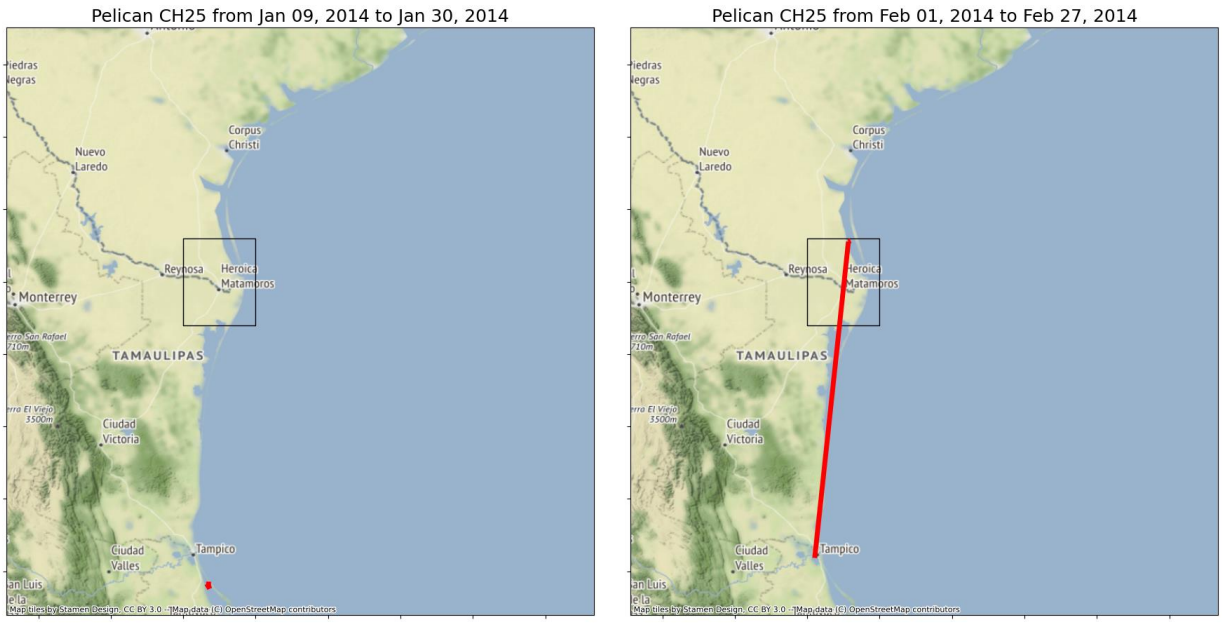

Figure 173 - Movements of CH25 between January 09, 2014 and February 27, 2014. Data from Lamb (2016)

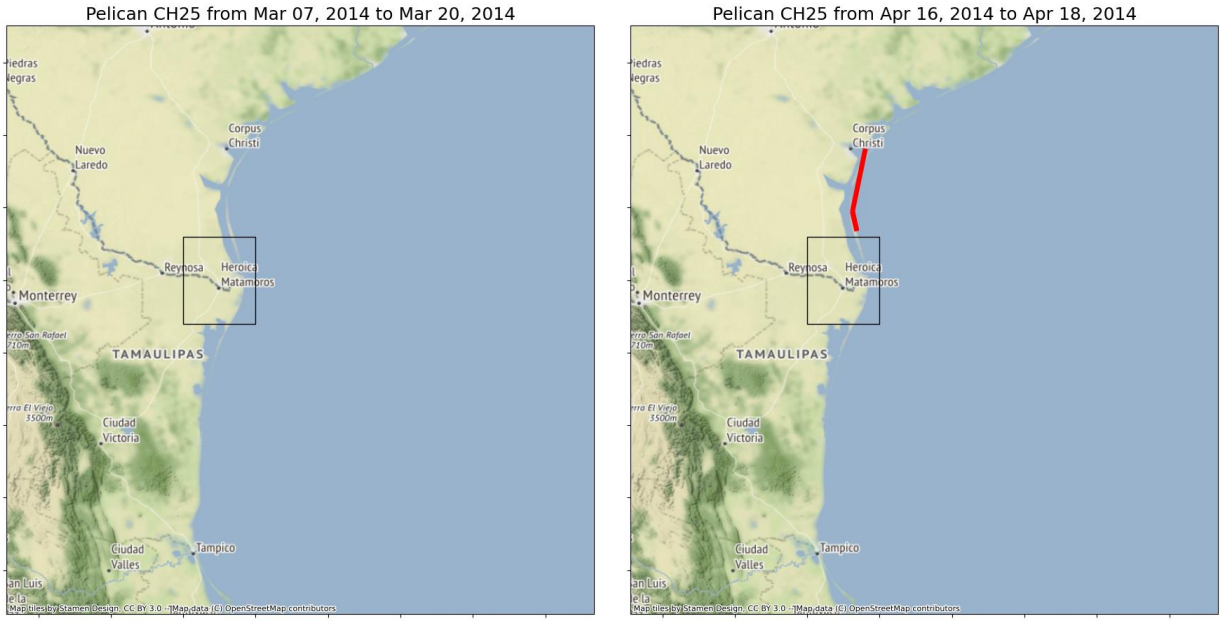

Figure 174 - Movements of CH25 between March 07, 2014 and April 18, 2014. Data from Lamb (2016)

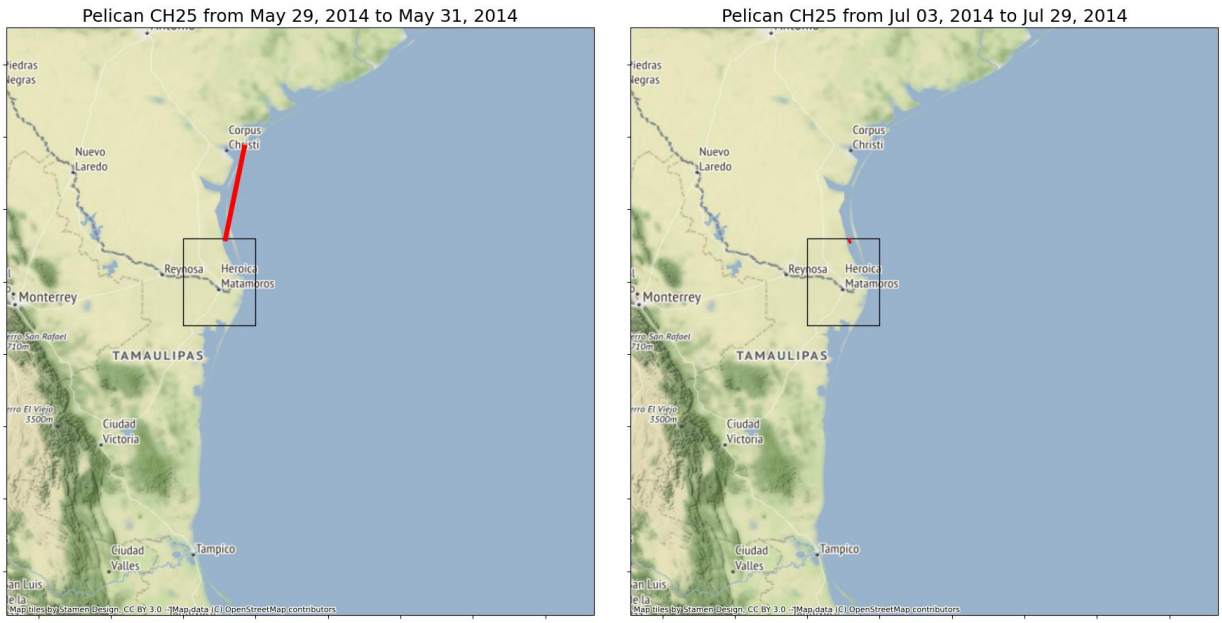

Figure 175 - Movements of CH25 between May 29, 2014 and July 29, 2014. Data from Lamb (2016)

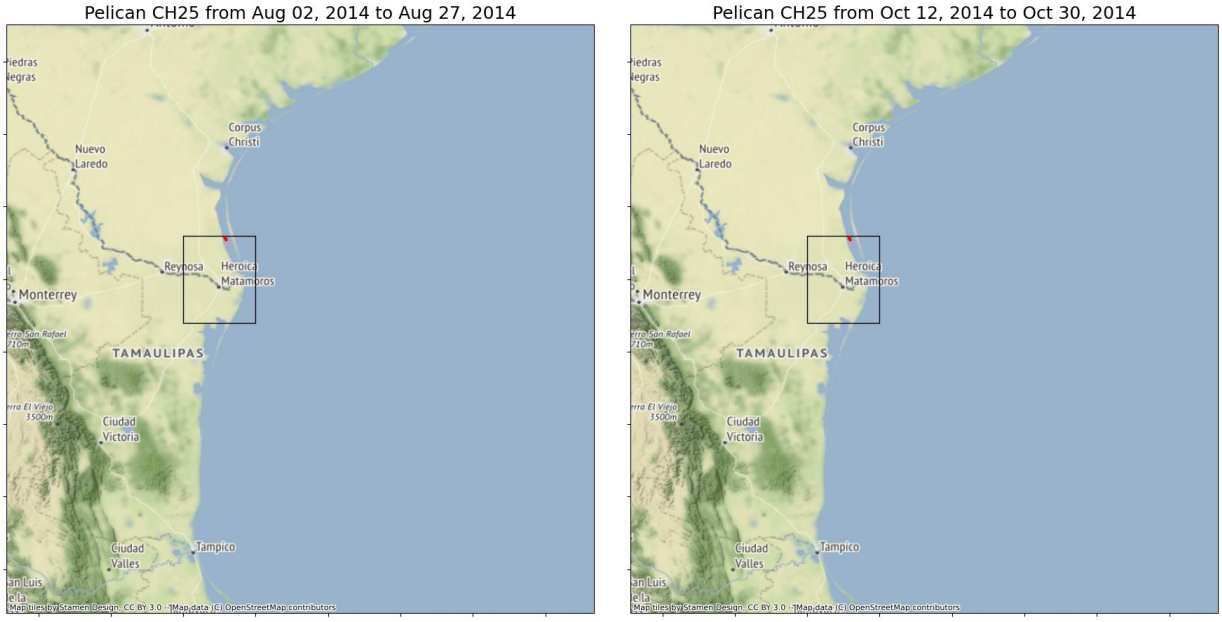

Figure 176 - Movements of CH25 between August 02, 2014 and October 30, 2014. Data from Lamb (2016)

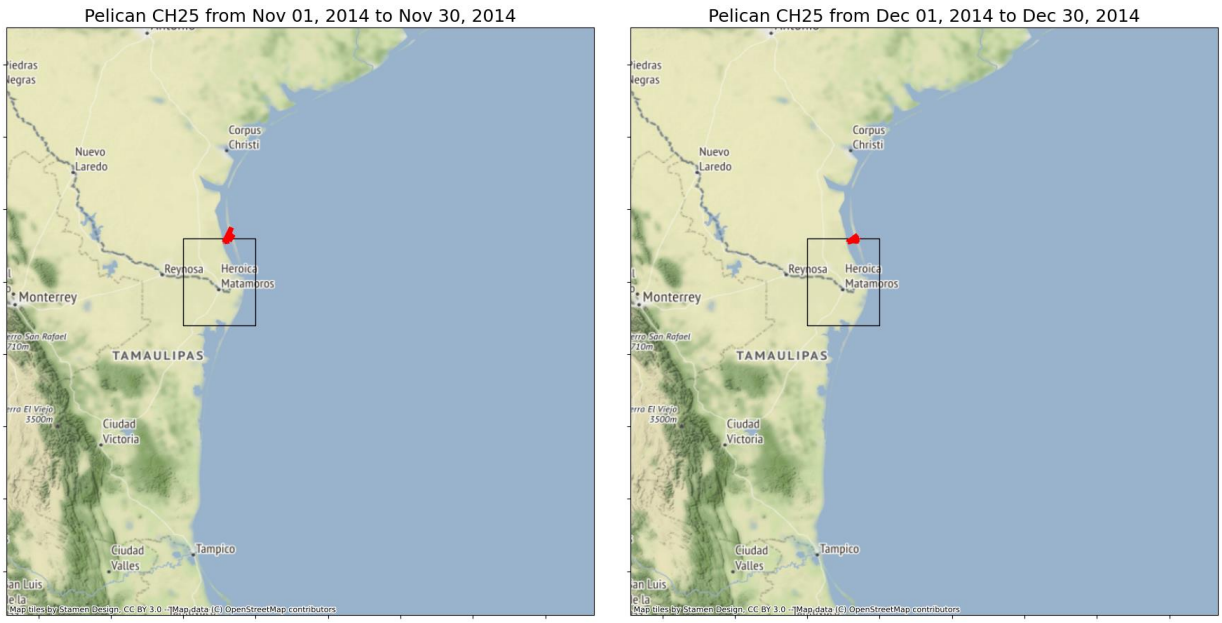

Figure 177 - Movements of CH25 between November 01, 2014 and December 30, 2014. Data from Lamb (2016)

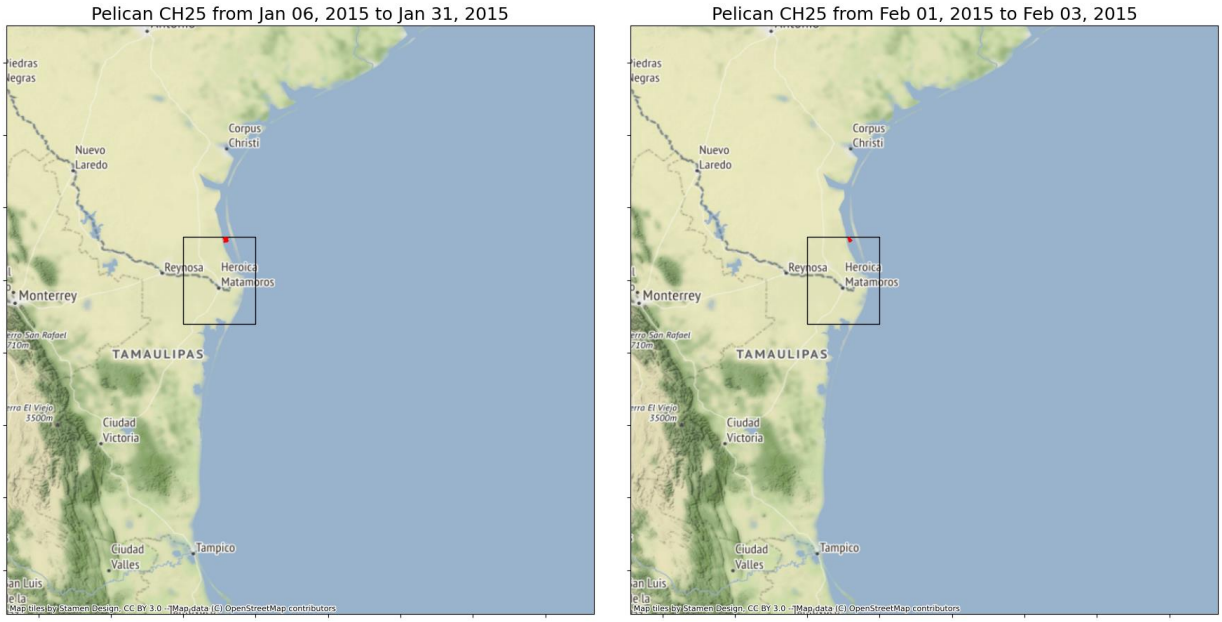

Figure 178 - Movements of CH25 between January 06, 2015 and February 03, 2015. Data from Lamb (2016)

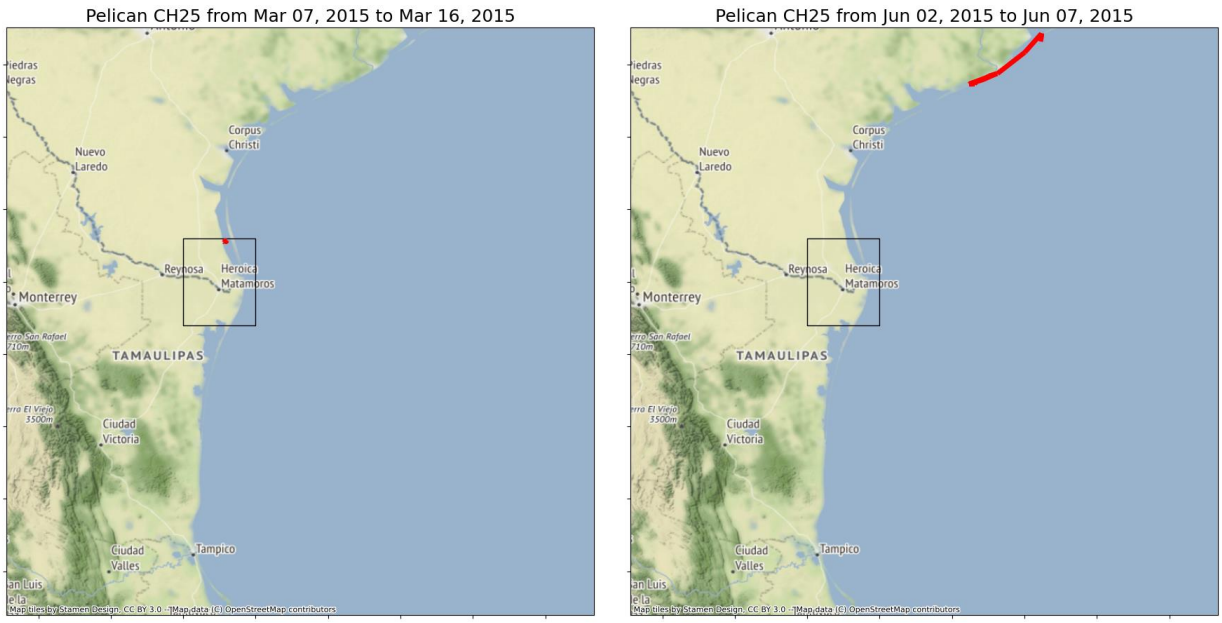

Figure 179 - Movements of CH25 between March 07, 2015 and June 07, 2015. Data from Lamb (2016)

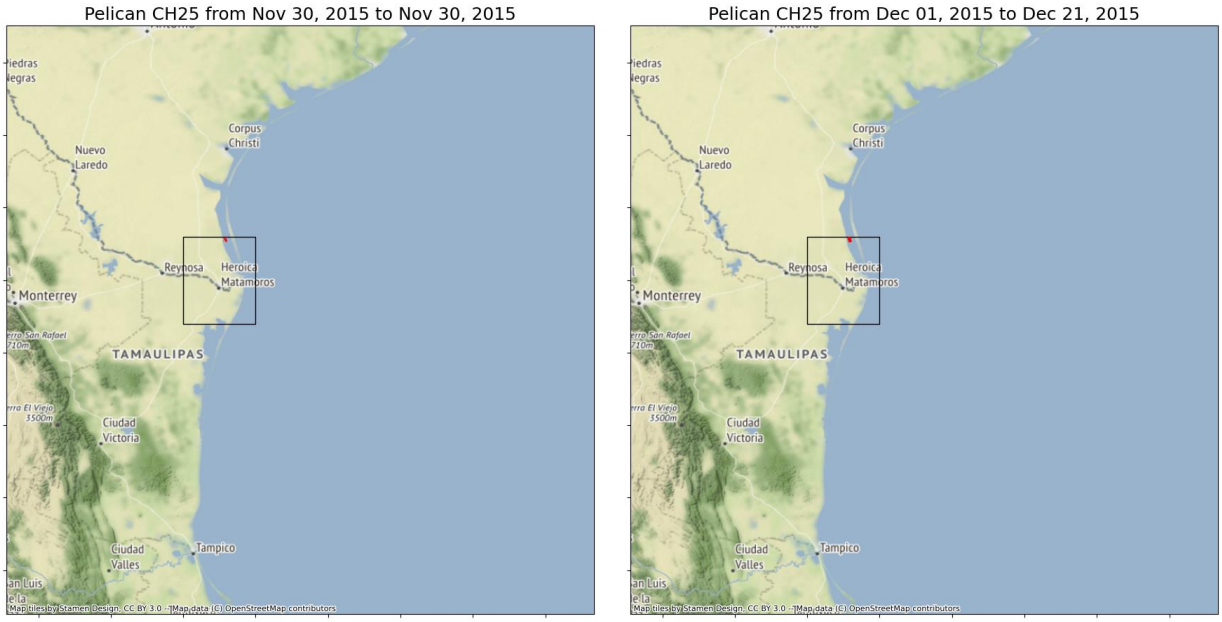

Figure 180 - Movements of CH25 between November 30, 2015 and December 21, 2015. Data from Lamb (2016)

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Pelican CH26 – Active from May 2013 to April 2014

Capture Date: May 25, 2013
Capture Location: Chester (Texas)
Sex: F
Status: incubating
Days Active: 313

Figure 181 - Movements of CH26 between May 25, 2013 and June 30, 2013. Data from Lamb (2016)

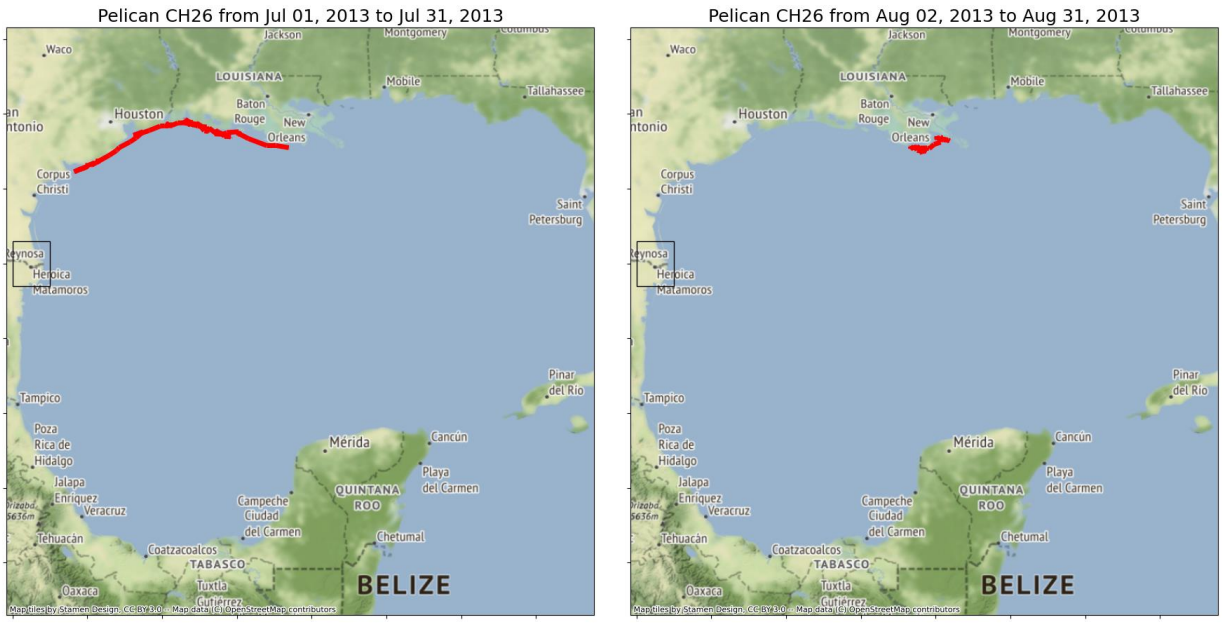

Figure 182 - Movements of CH26 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

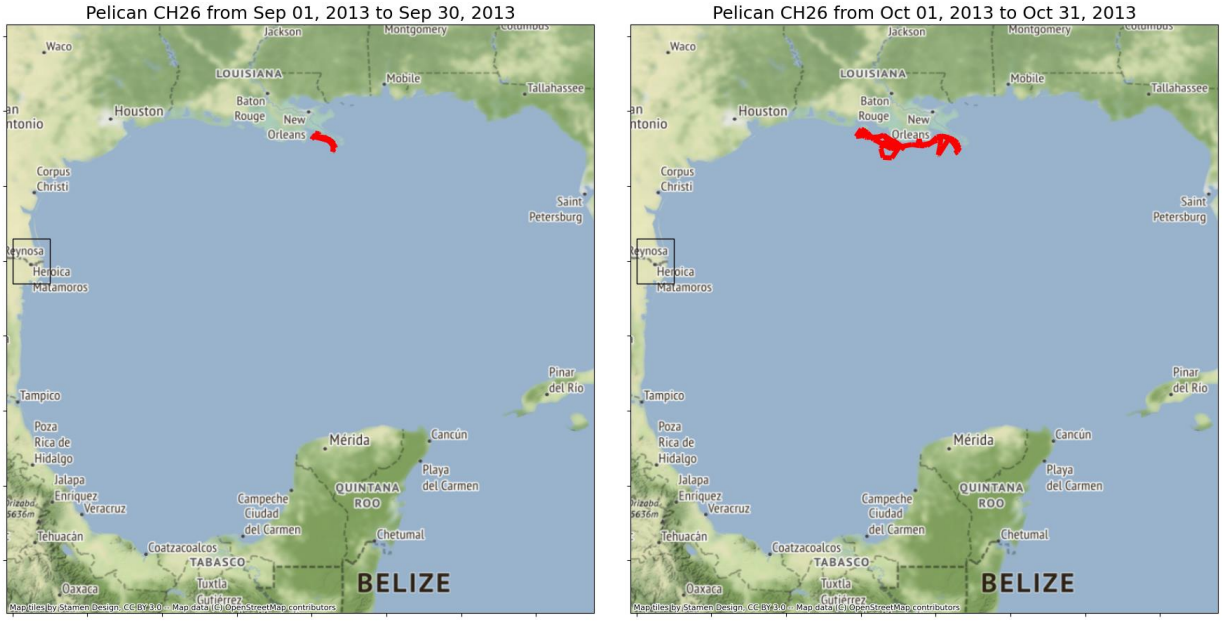

Figure 183 - Movements of CH26 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

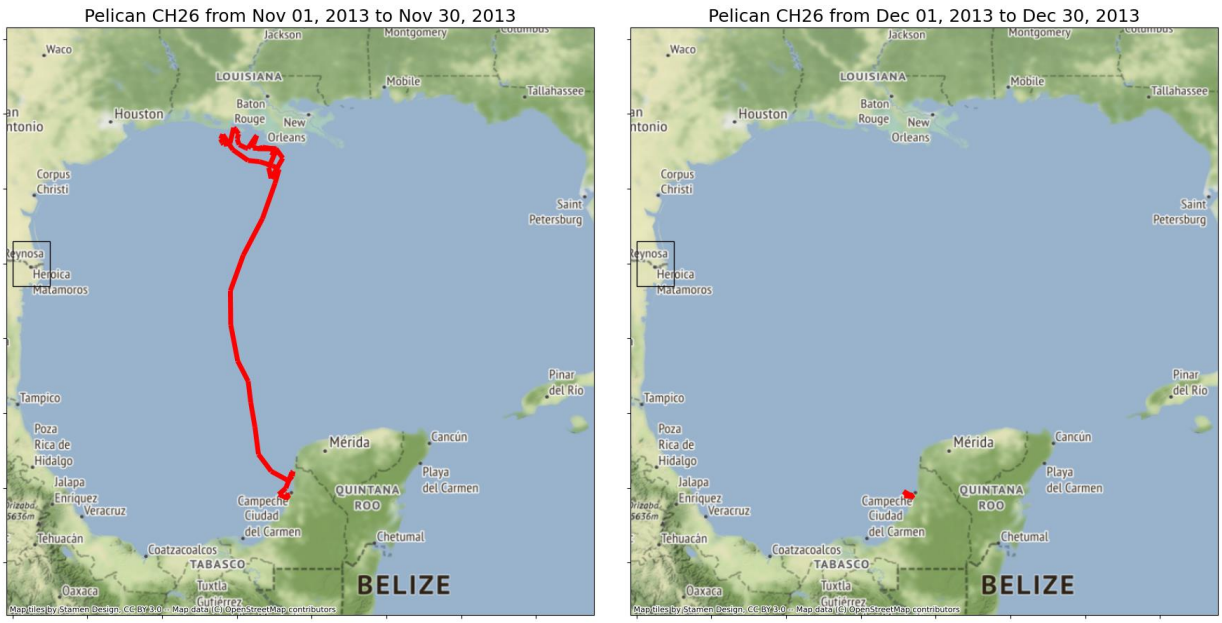

Figure 184 - Movements of CH26 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

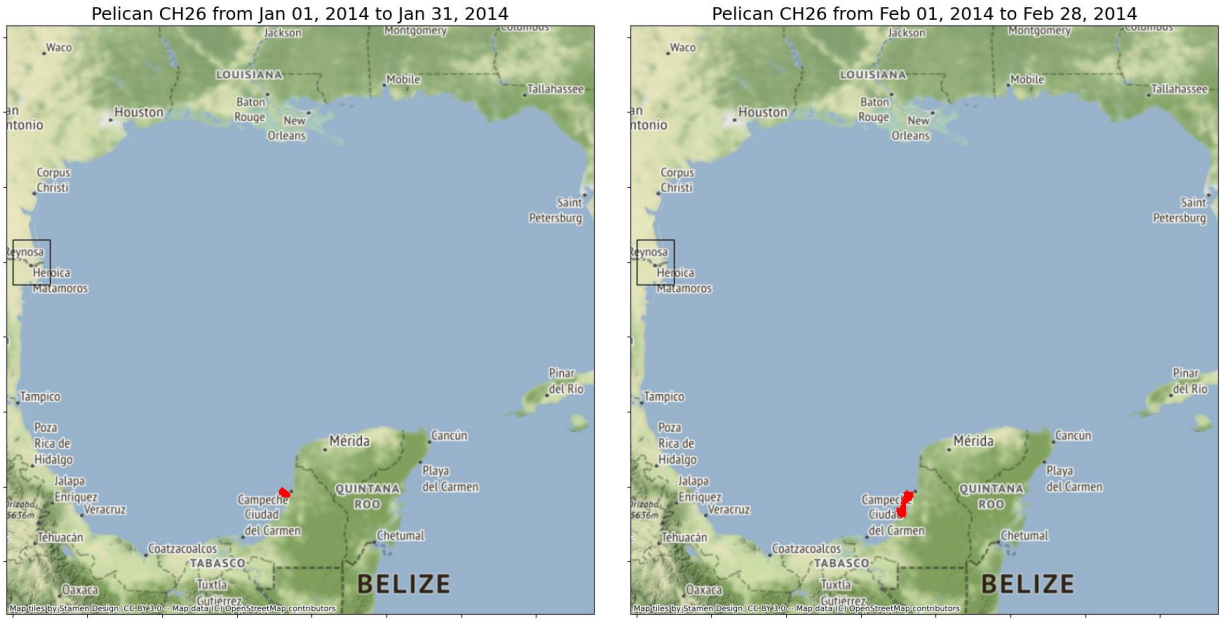

Figure 185 - Movements of CH26 between January 01, 2014 and February 28, 2014. Data from Lamb (2016)

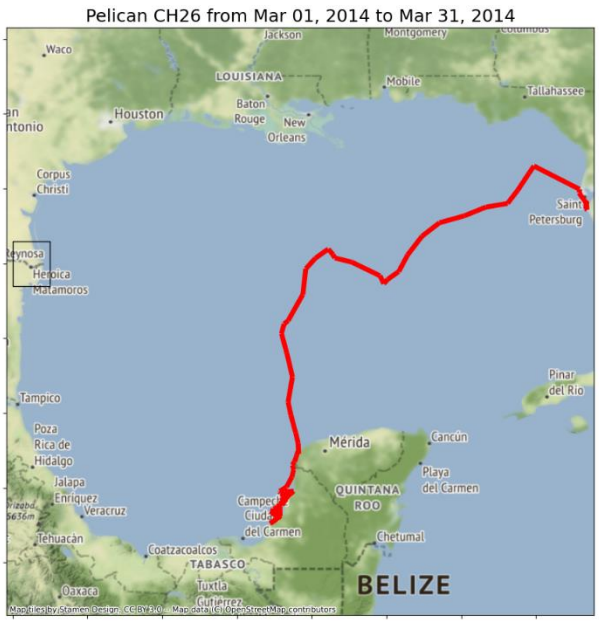

Figure 186 - Movements of CH26 between March 01, 2014 and March 31, 2014. Data from Lamb (2016)

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Pelican CH53 – Active from June 2013 to September 2014

Capture Date: June 29, 2013
Capture Location: Chester (Texas)
Sex: F
Status: incubating
Days Active: 432

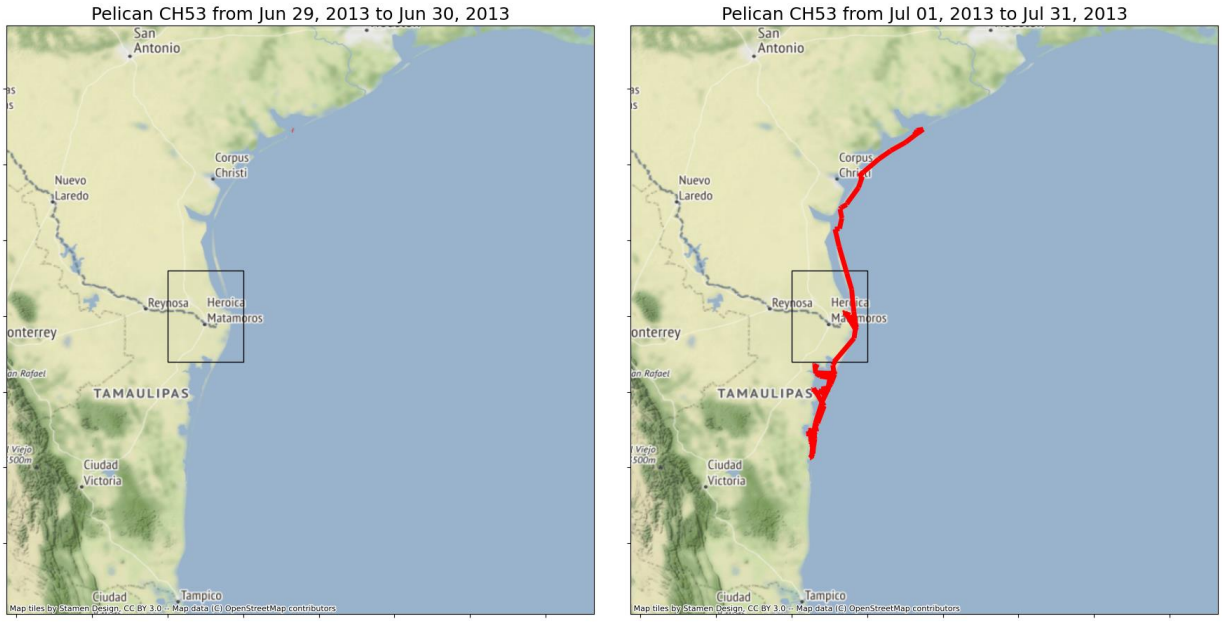

Figure 187 - Movements of CH53 between June 29, 2013 and July 31, 2013. Data from Lamb (2016)

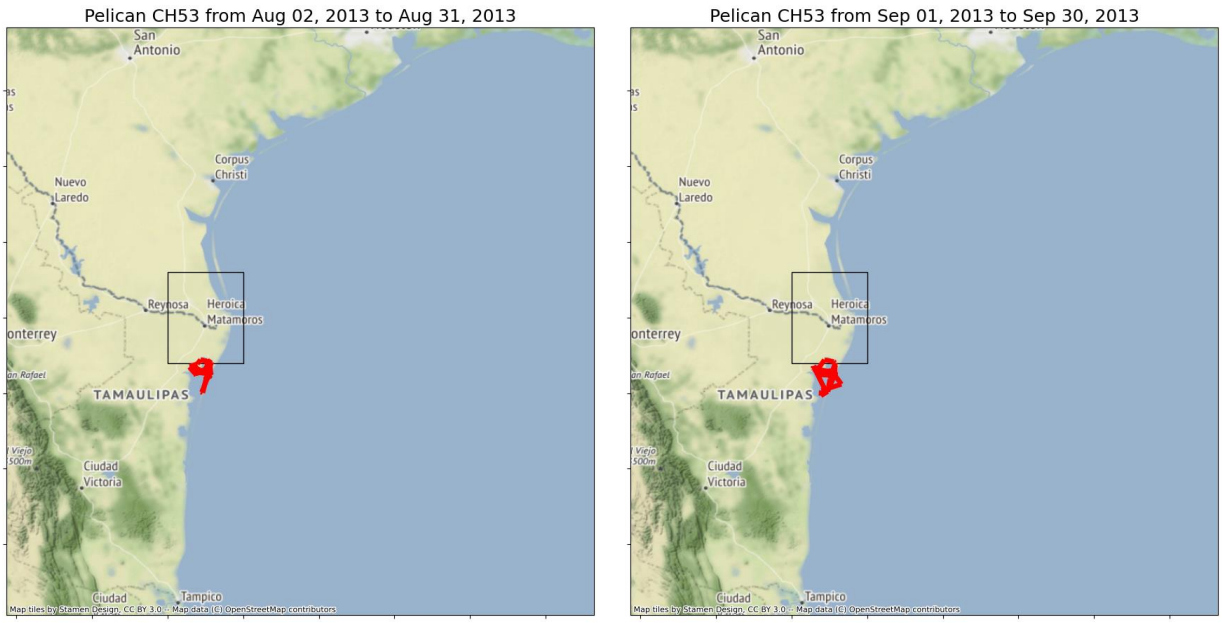

Figure 188 - Movements of CH53 between August 02, 2013 and September 30, 2013. Data from Lamb (2016)

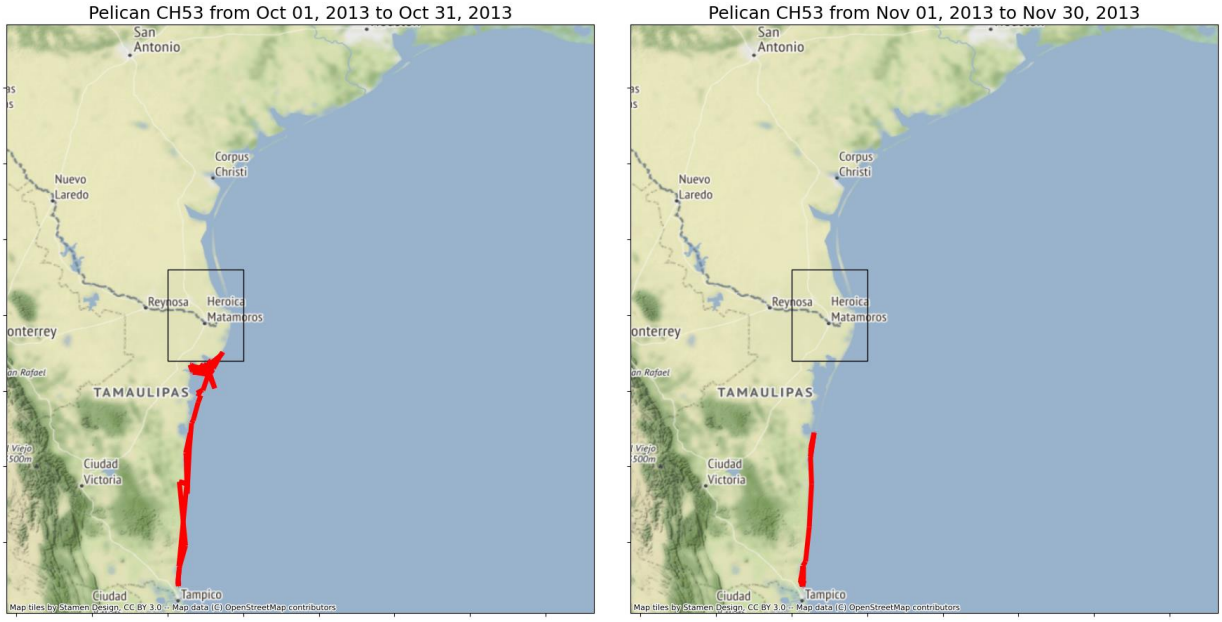

Figure 189 - Movements of CH53 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

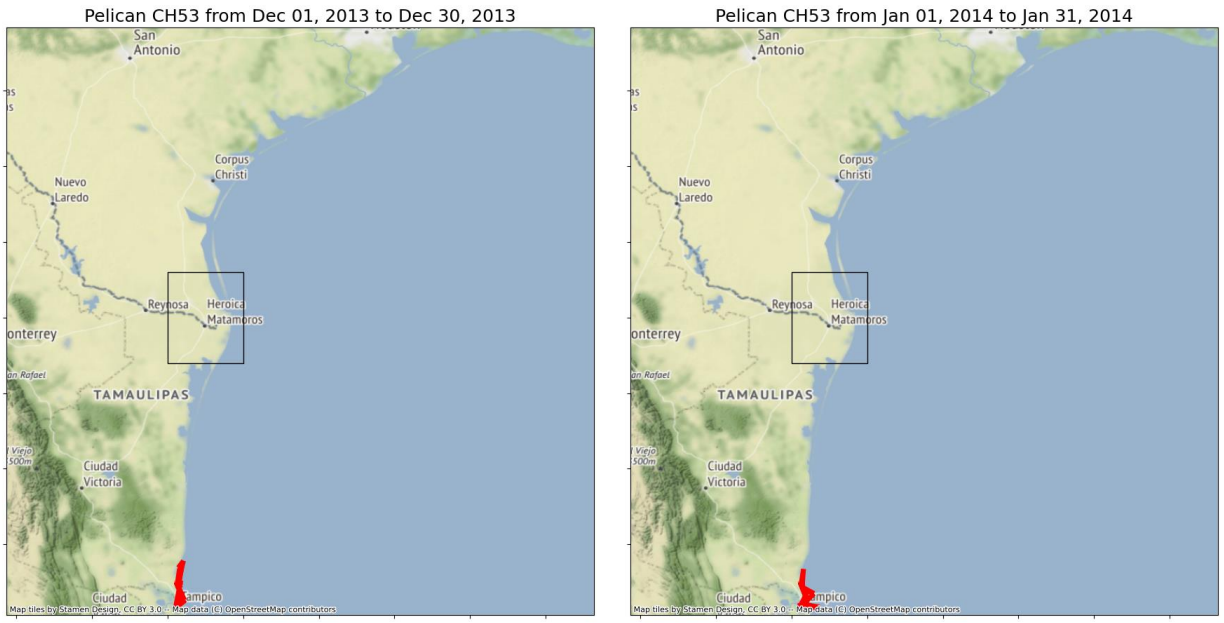

Figure 190 - Movements of CH53 between December 01, 2013 and January 31, 2014. Data from Lamb (2016)

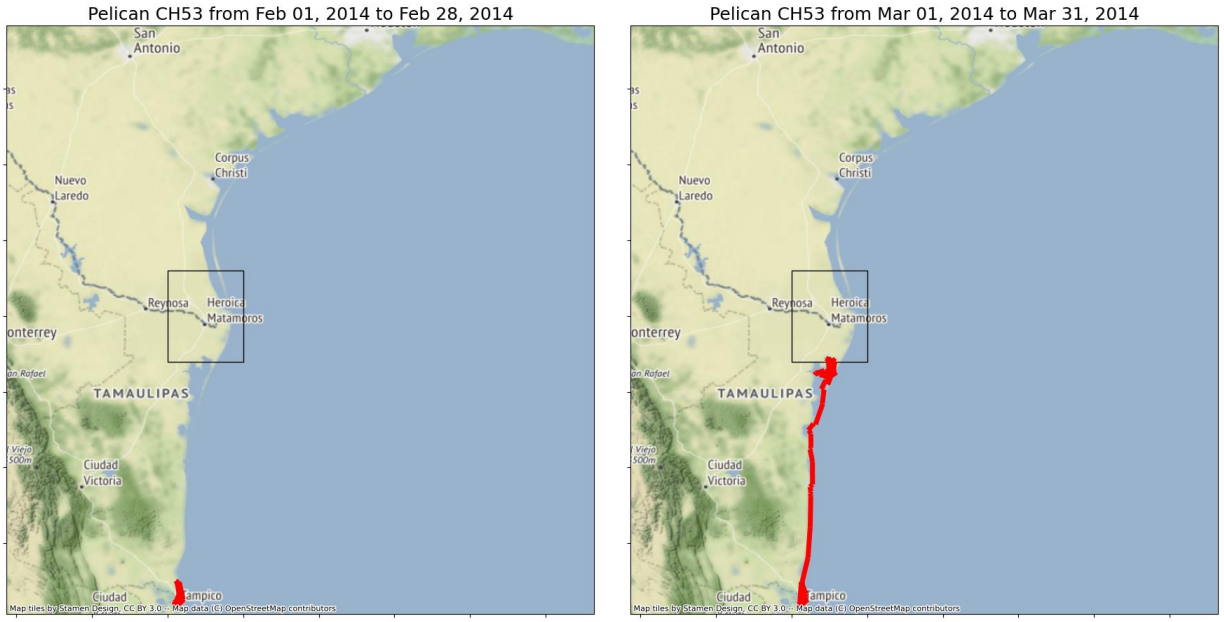

Figure 191 - Movements of CH53 between February 01, 2014 and March 31, 2014. Data from Lamb (2016)

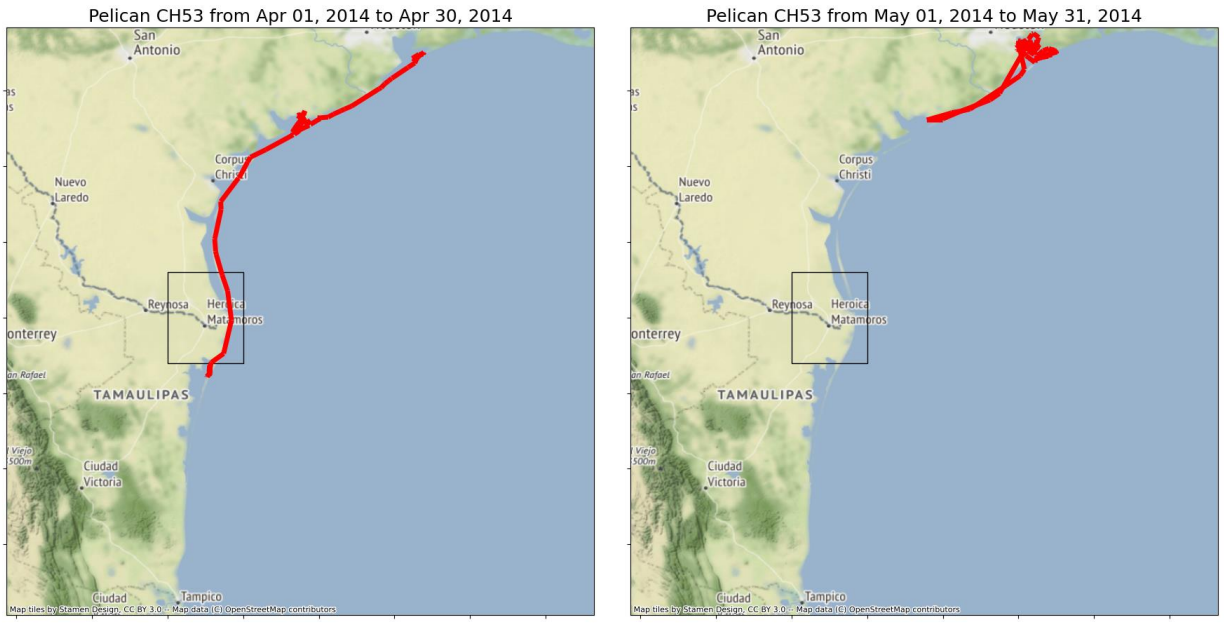

Figure 192 - Movements of CH53 between April 01, 2014 and May 31, 2014. Data from Lamb (2016)

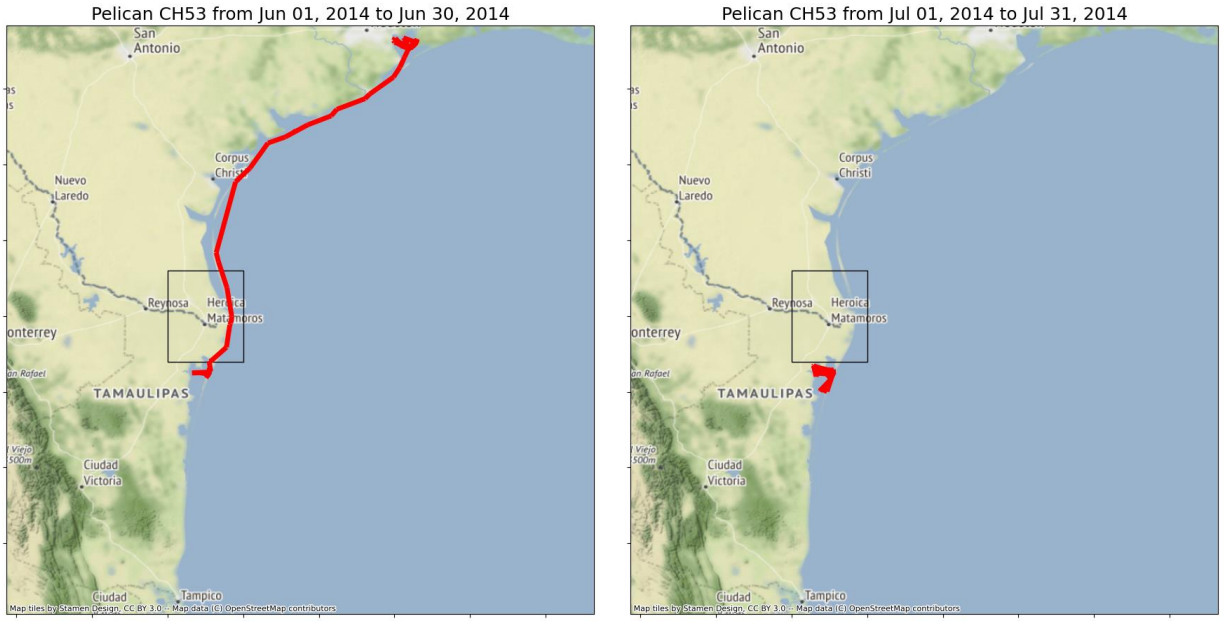

Figure 193 - Movements of CH53 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

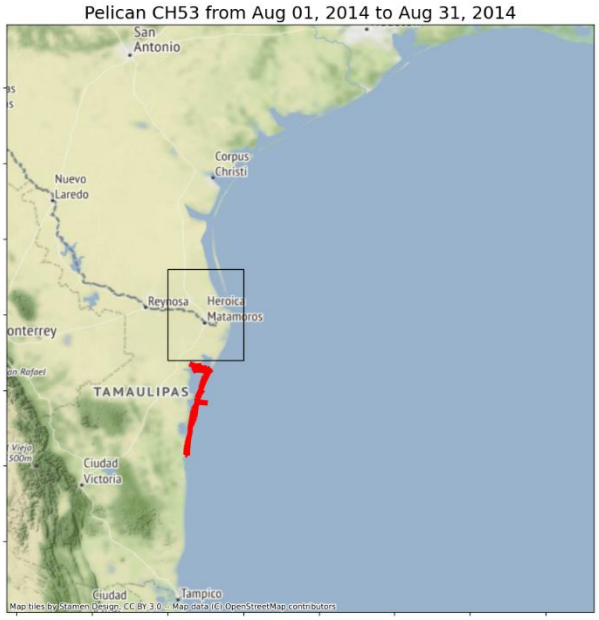

Figure 194 - Movements of CH53 between August 01, 2014 and August 31, 2014. Data from Lamb (2016)

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Pelican CH79 – Active from May 2014 to November 2014

Capture Date: May 10, 2014
Capture Location: Chester (Texas)
Sex: M
Status: incubating
Days Active: 179

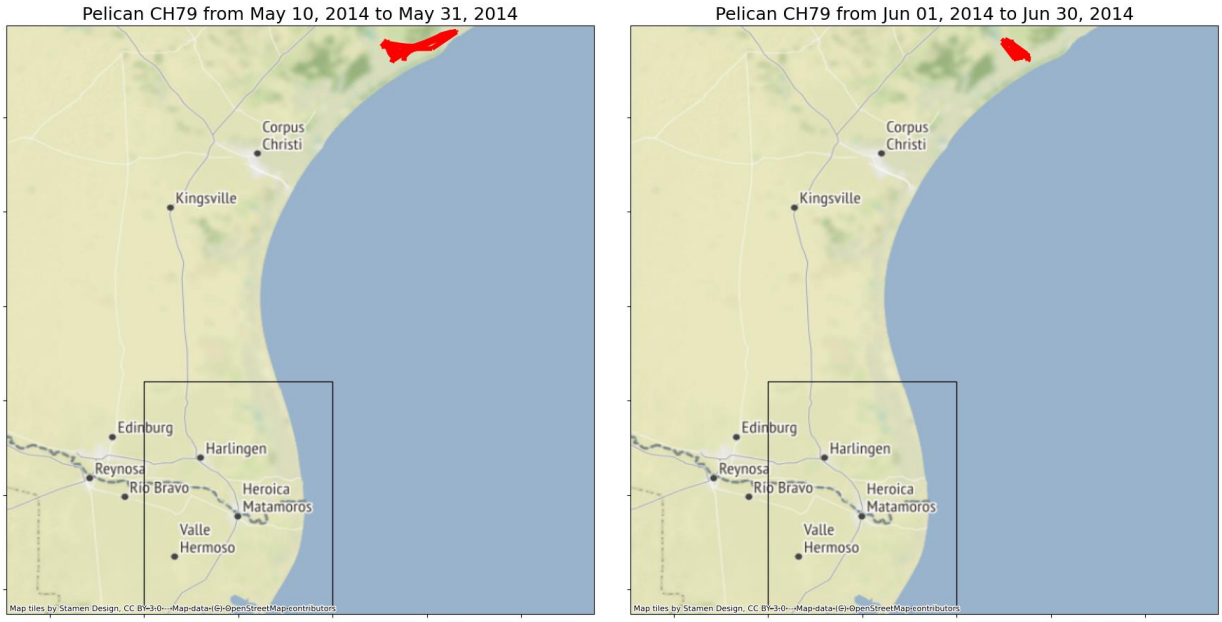

Figure 195 - Movements of CH79 between May 10, 2014 and June 30, 2014. Data from Lamb (2016)

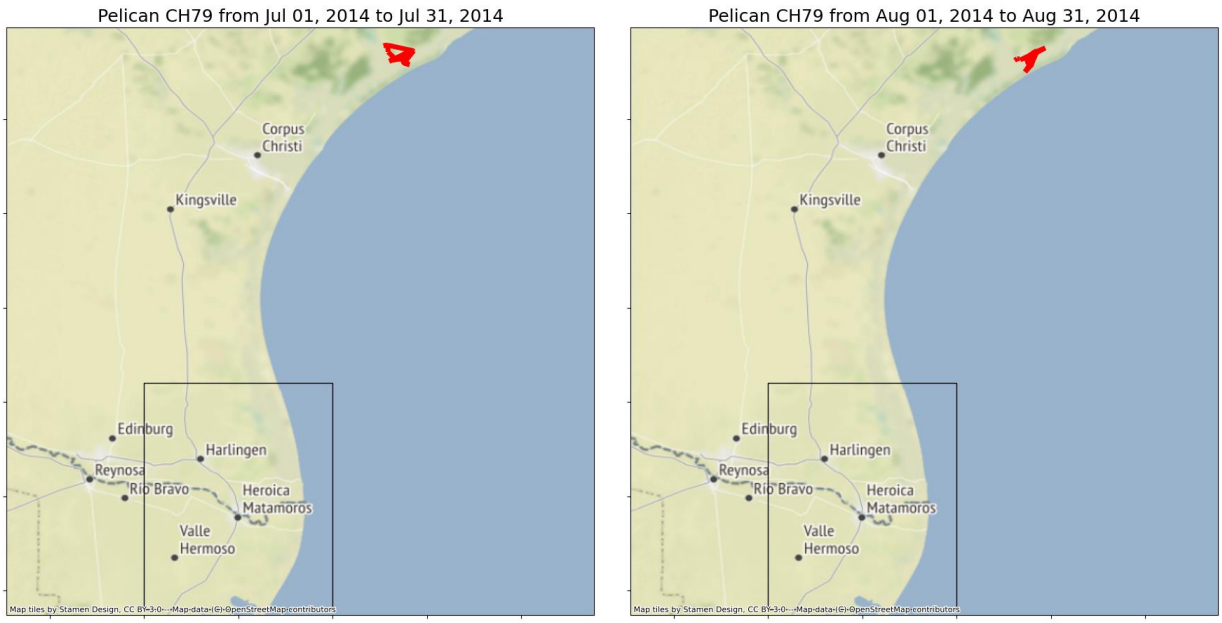

Figure 196 - Movements of CH79 between July 01, 2014 and August 31, 2014. Data from Lamb (2016)

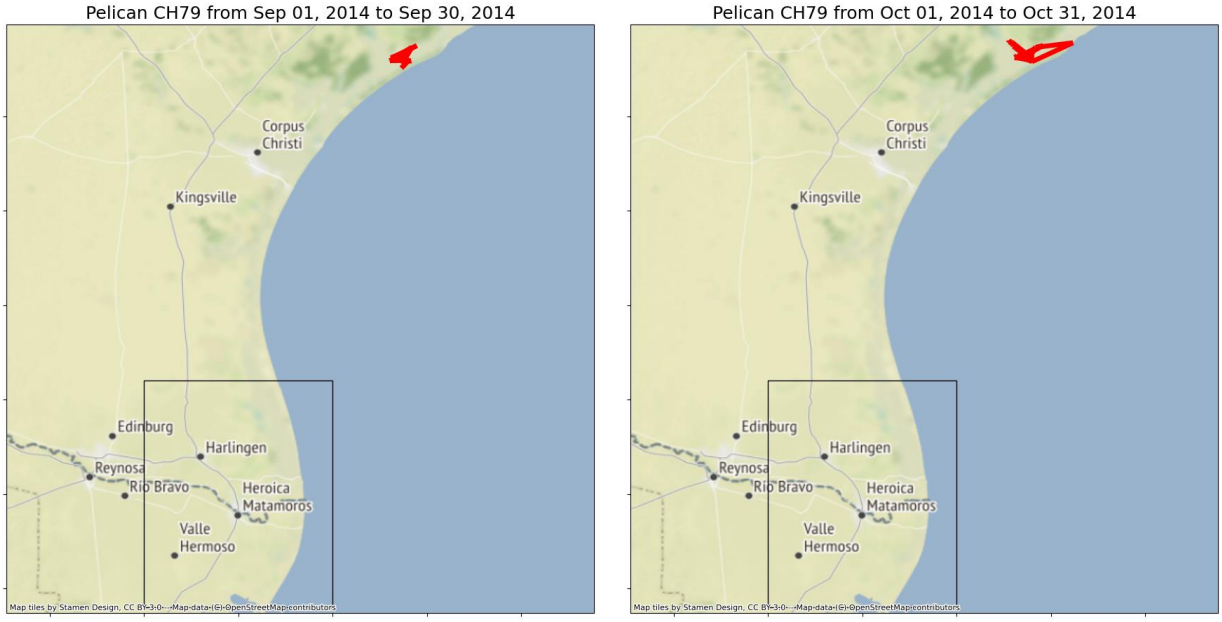

Figure 197 - Movements of CH79 between September 01, 2014 and October 31, 2014. Data from Lamb (2016)

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Pelican FE06 – Active from April 2013 to March 2014

Capture Date: April 29, 2013
Capture Location: Felicity (LA)
Sex: M
Status: incubating
Days Active: 320

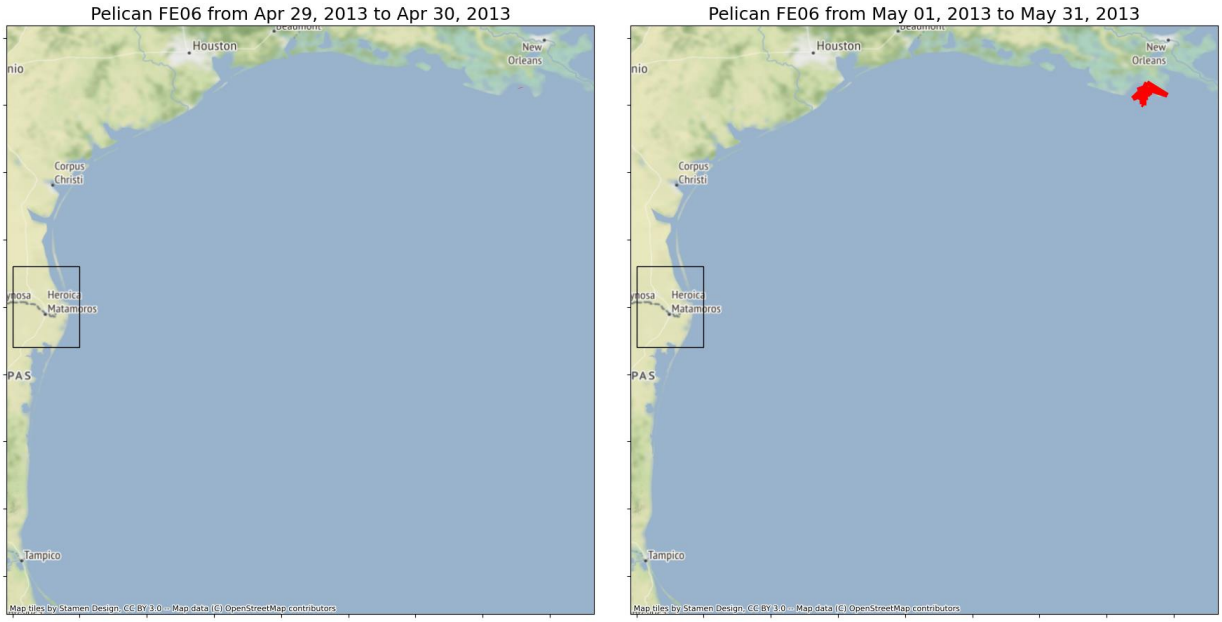

Figure 198 - Movements of FE06 between April 29, 2013 and May 31, 2013. Data from Lamb (2016)

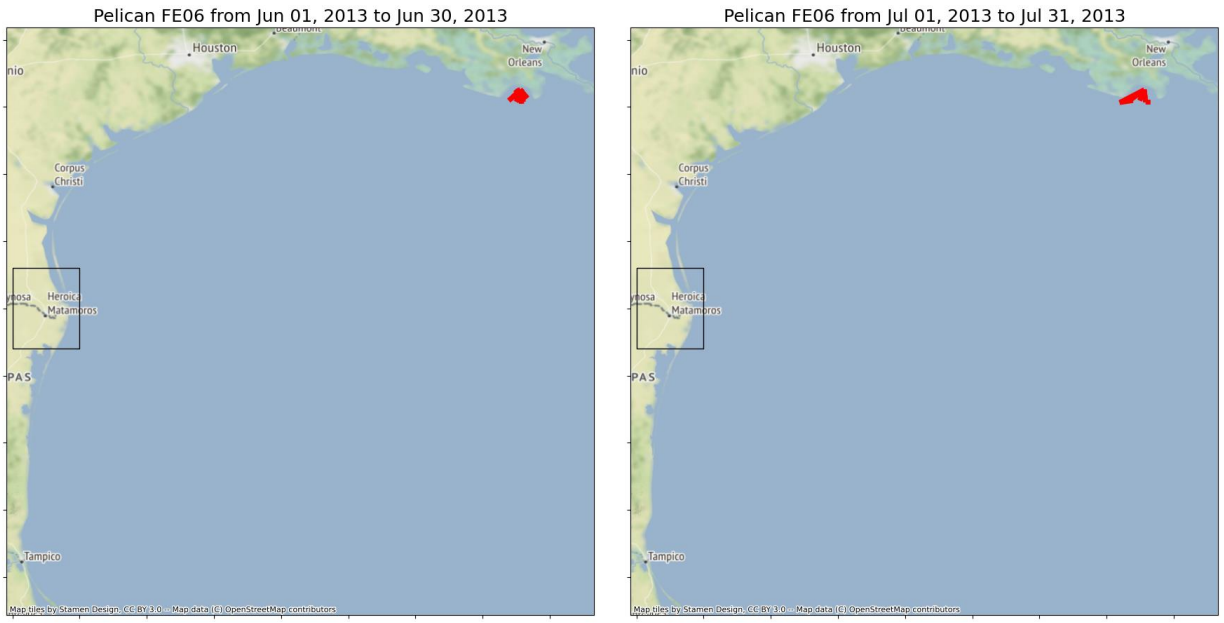

Figure 199 - Movements of FE06 between June 01, 2013 and July 31, 2013. Data from Lamb (2016)

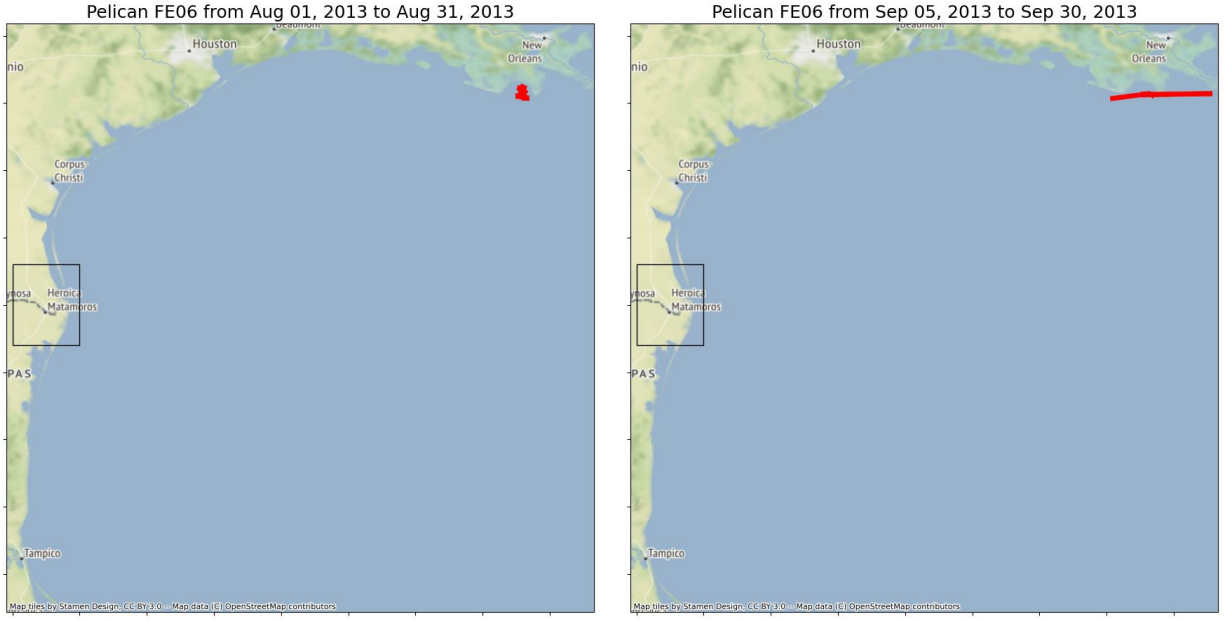

Figure 200 - Movements of FE06 between August 01, 2013 and September 30, 2013. Data from Lamb (2016)

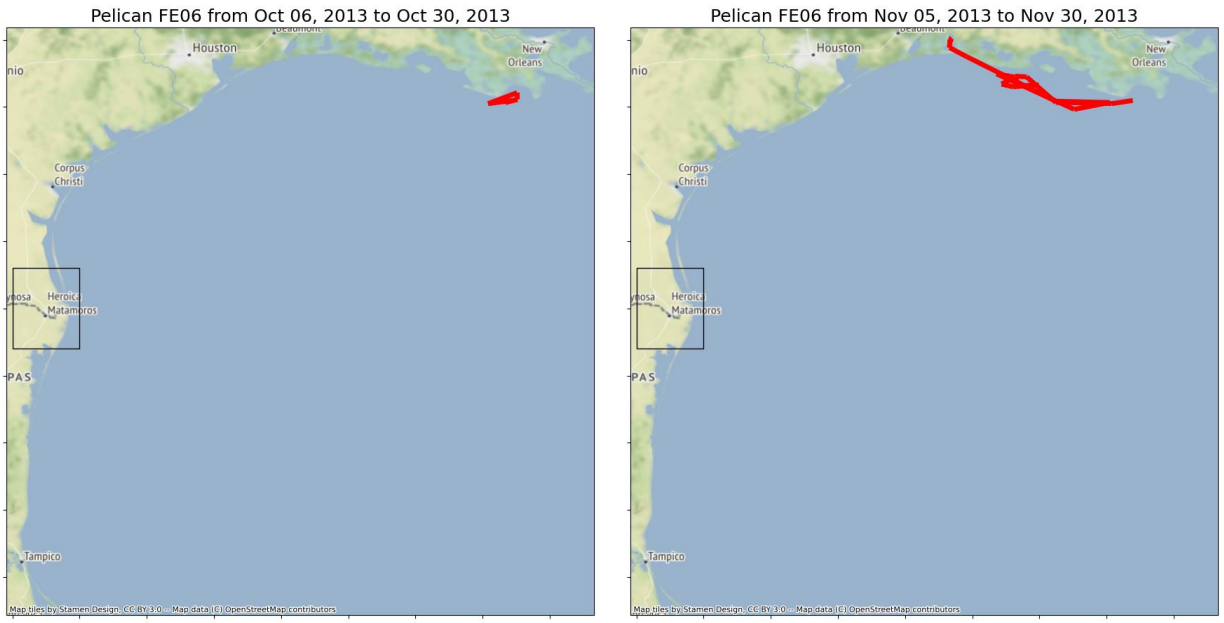

Figure 201 - Movements of FE06 between October 06, 2013 and November 30, 2013. Data from Lamb (2016)

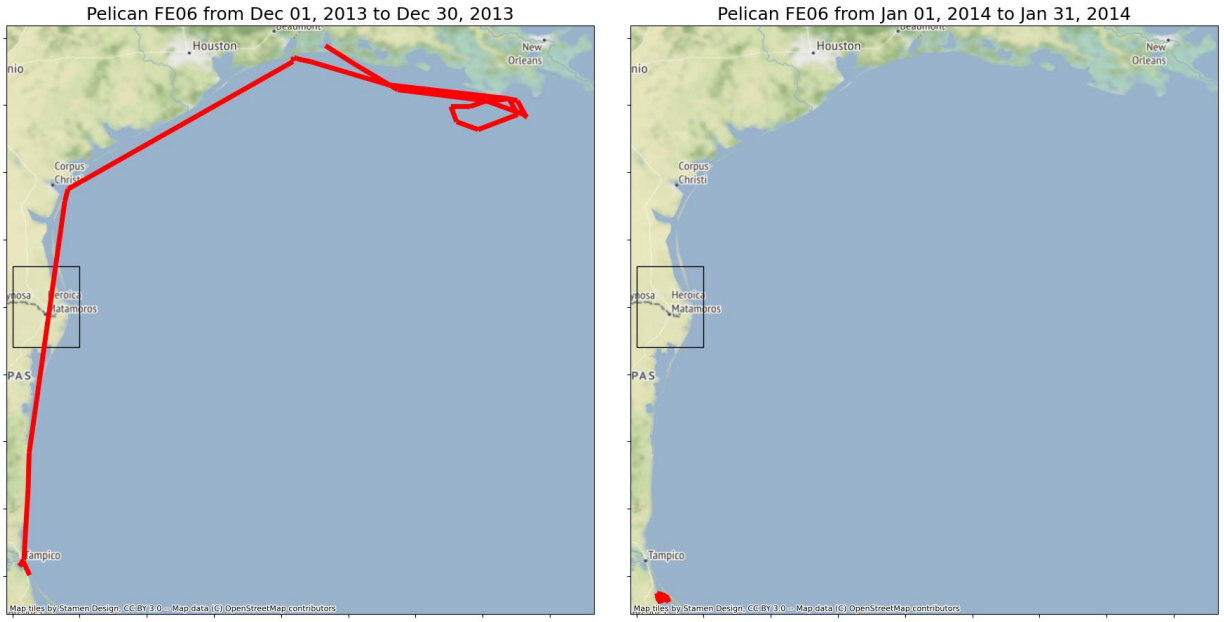

Figure 202 - Movements of FE06 between December 01, 2013 and January 31, 2014. Data from Lamb (2016)

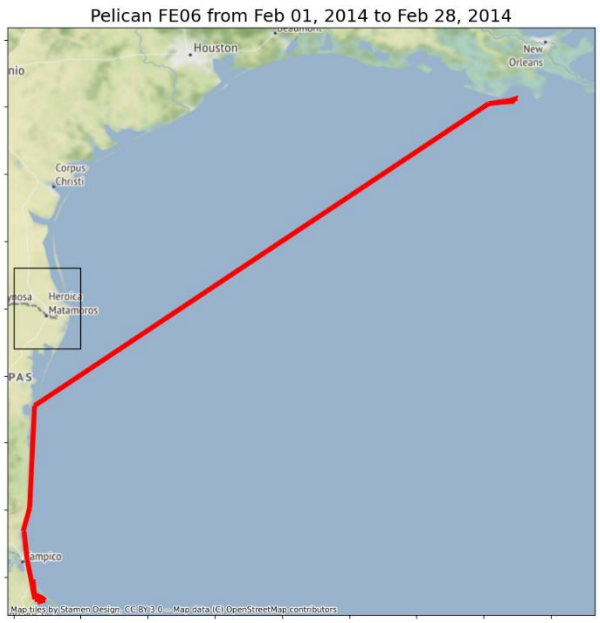

Figure 203 - Movements of FE06 between February 01, 2014 and February 28, 2014. Data from Lamb (2016)

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Pelican FE08 – Active from April 2013 to January 2014

Capture Date: April 29, 2013
Capture Location: Felicity (LA)
Sex: M
Status: incubating
Days Active: 256

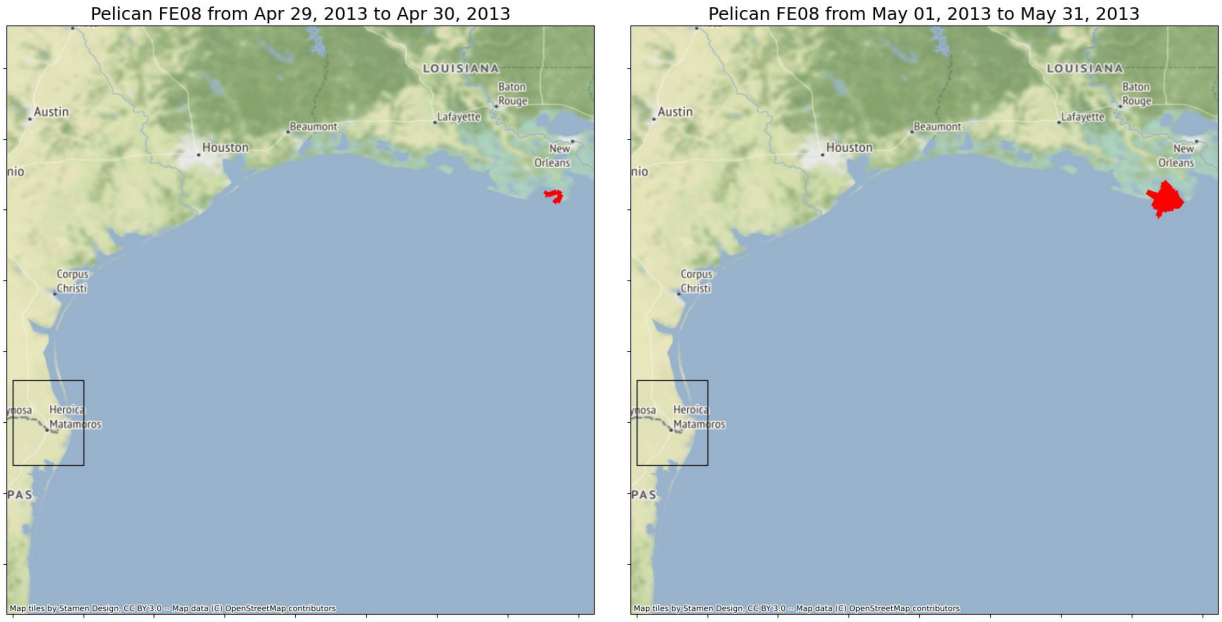

Figure 204 - Movements of FE08 between April 29, 2013 and May 31, 2013. Data from Lamb (2016)

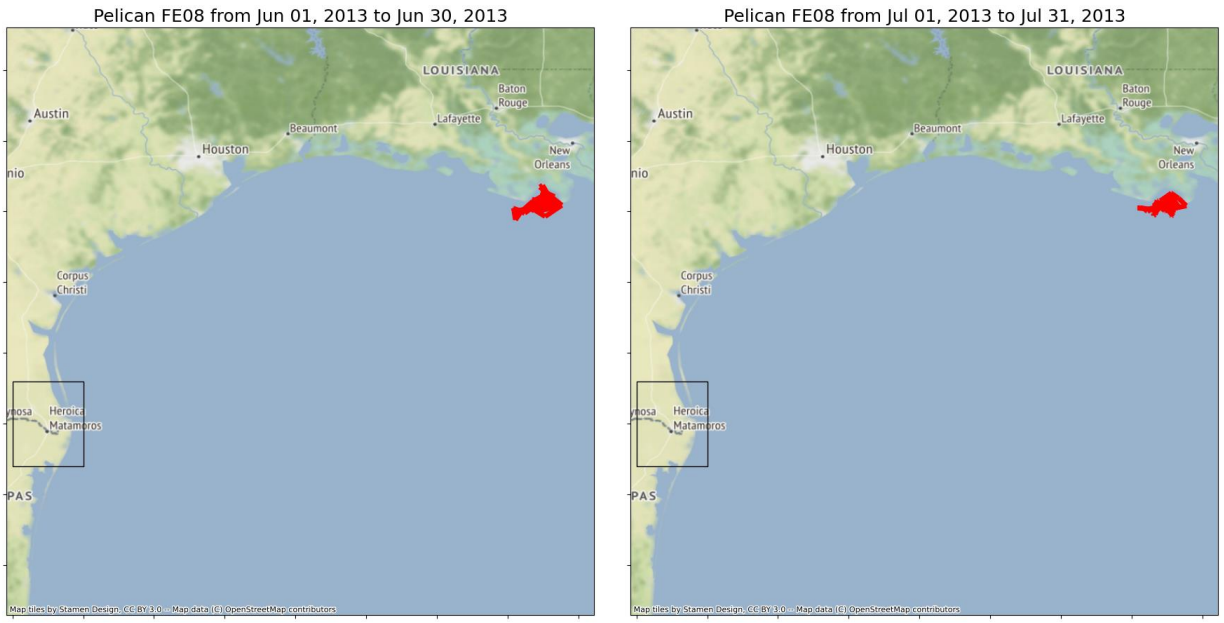

Figure 205 - Movements of FE08 between June 01, 2013 and July 31, 2013. Data from Lamb (2016)

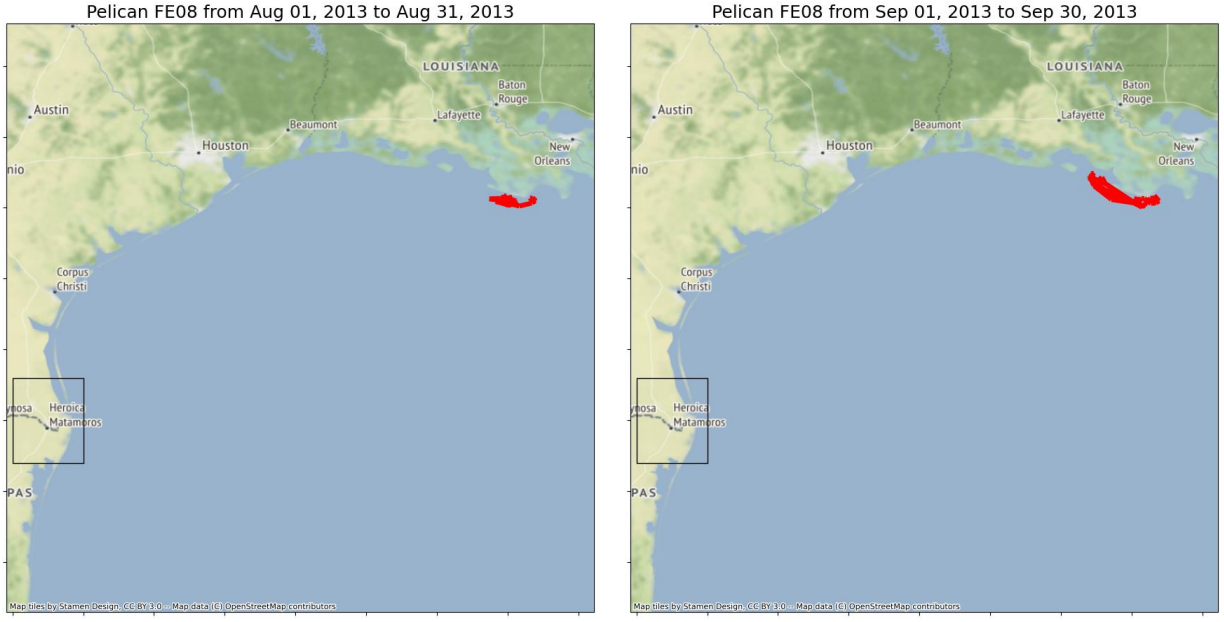

Figure 206 - Movements of FE08 between August 01, 2013 and September 30, 2013. Data from Lamb (2016)

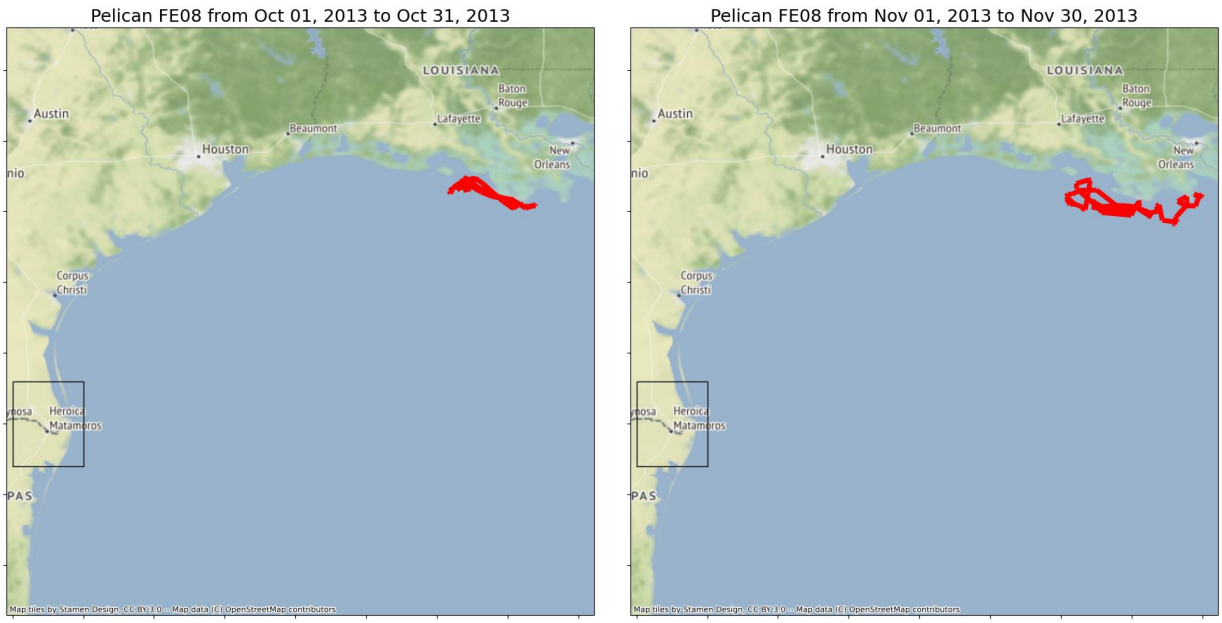

Figure 207 - Movements of FE08 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

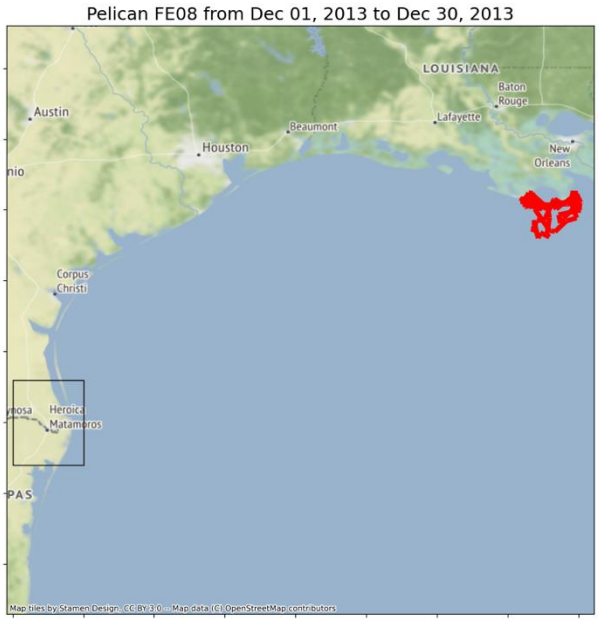

Figure 208 - Movements of FE08 between December 01, 2013 and December 30, 2013. Data from Lamb (2016)

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Pelican FE54 – Active from July 2013 to December 2013

Capture Date: July 2, 2013
Capture Location: Felicity (LA)
Sex: F
Status: incubating
Days Active: 154

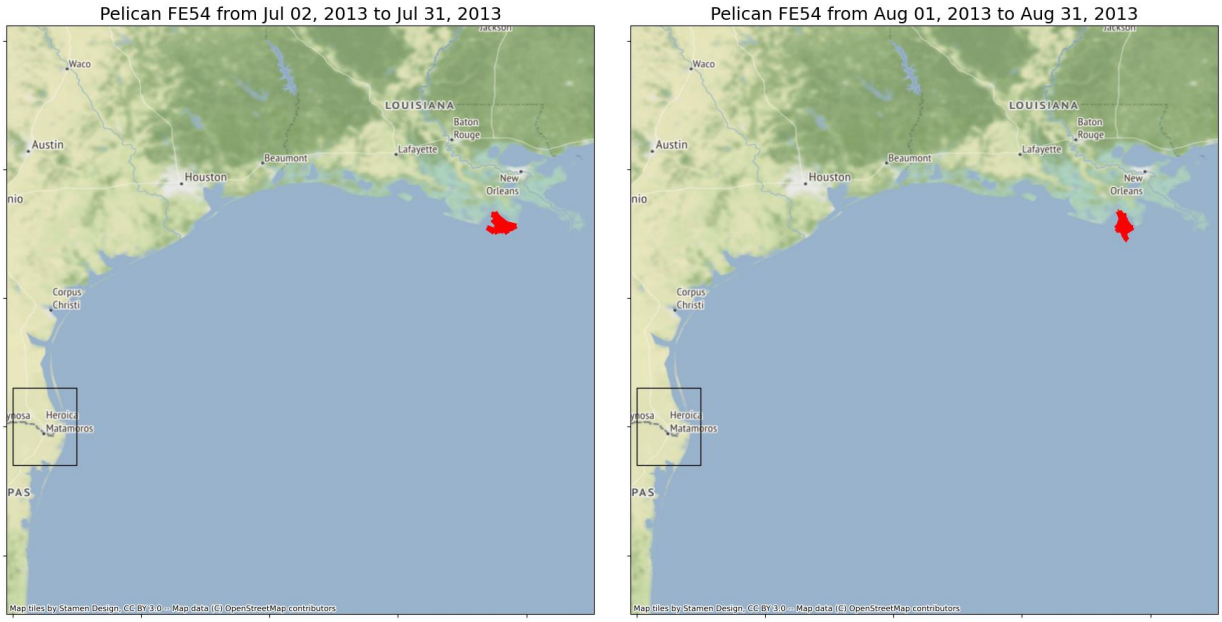

Figure 209 - Movements of FE54 between July 02, 2013 and August 31, 2013. Data from Lamb (2016)

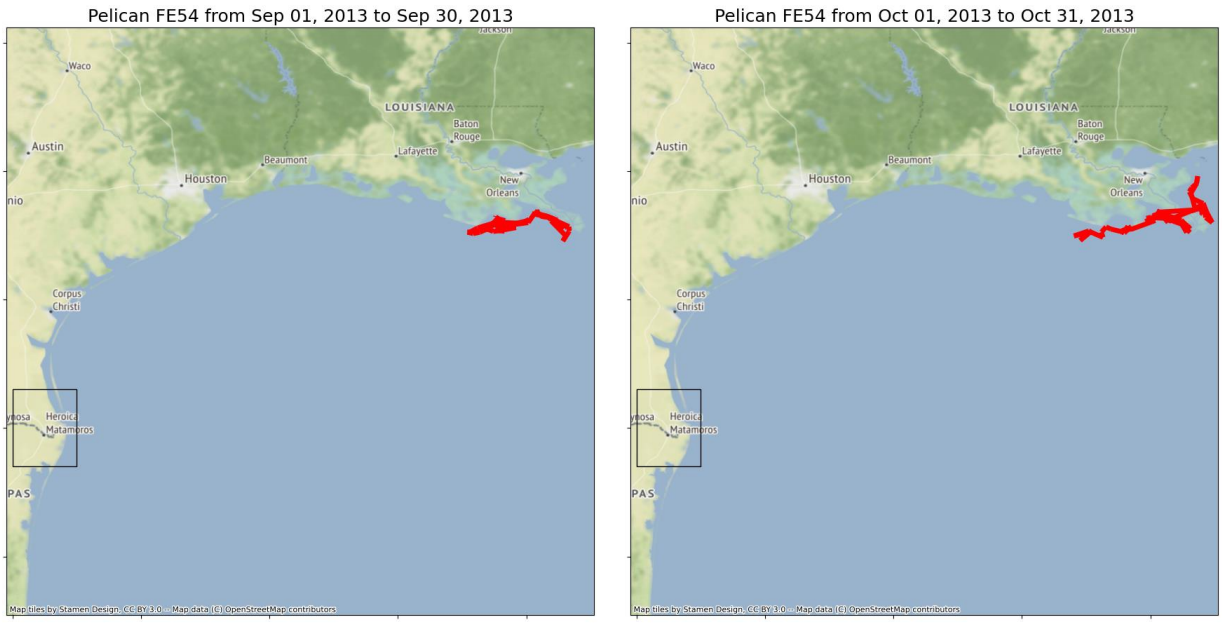

Figure 210 - Movements of FE54 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

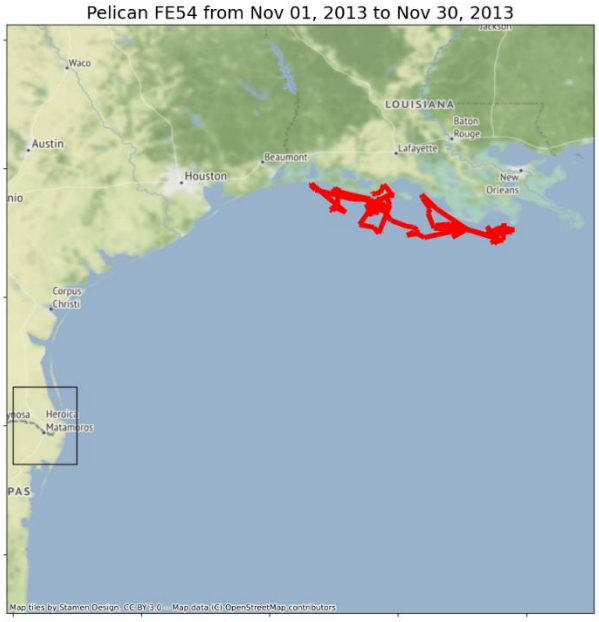

Figure 211 - Movements of FE54 between November 01, 2013 and November 30, 2013. Data from Lamb (2016)

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Pelican FE55 – Active from July 2013 to January 2014

Capture Date: July 02, 2013
Capture Location: Felicity (LA)
Sex: M
Status: rearing chick
Days Active: 191

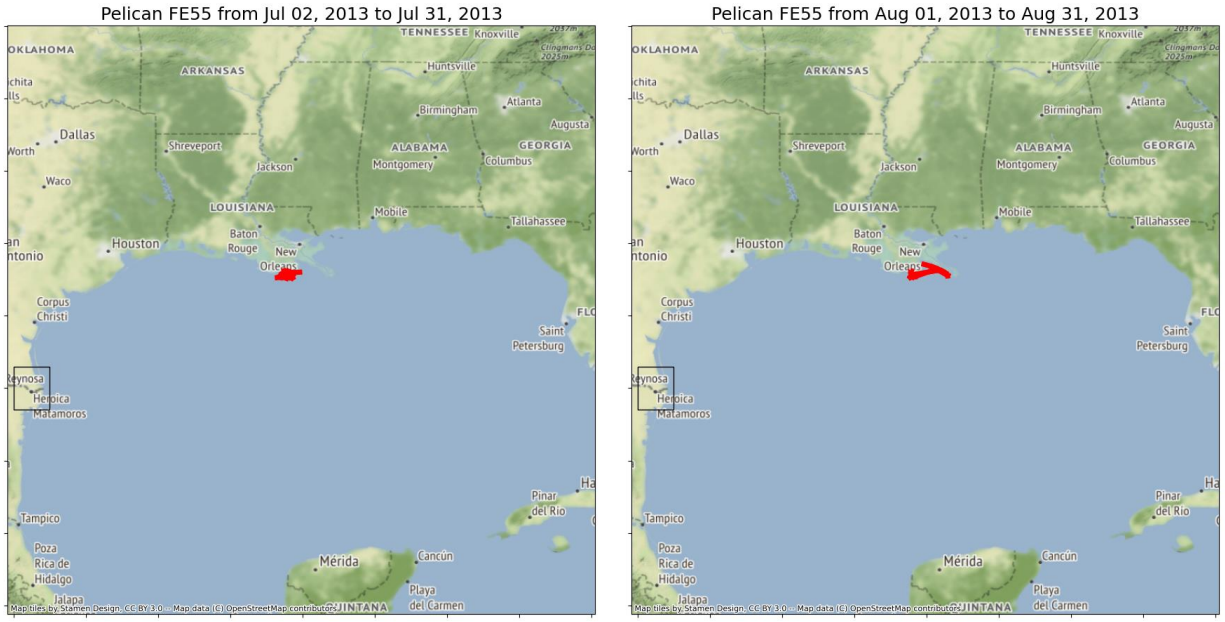

Figure 212 - Movements of FE55 between July 02, 2013 and August 31, 2013. Data from Lamb (2016)

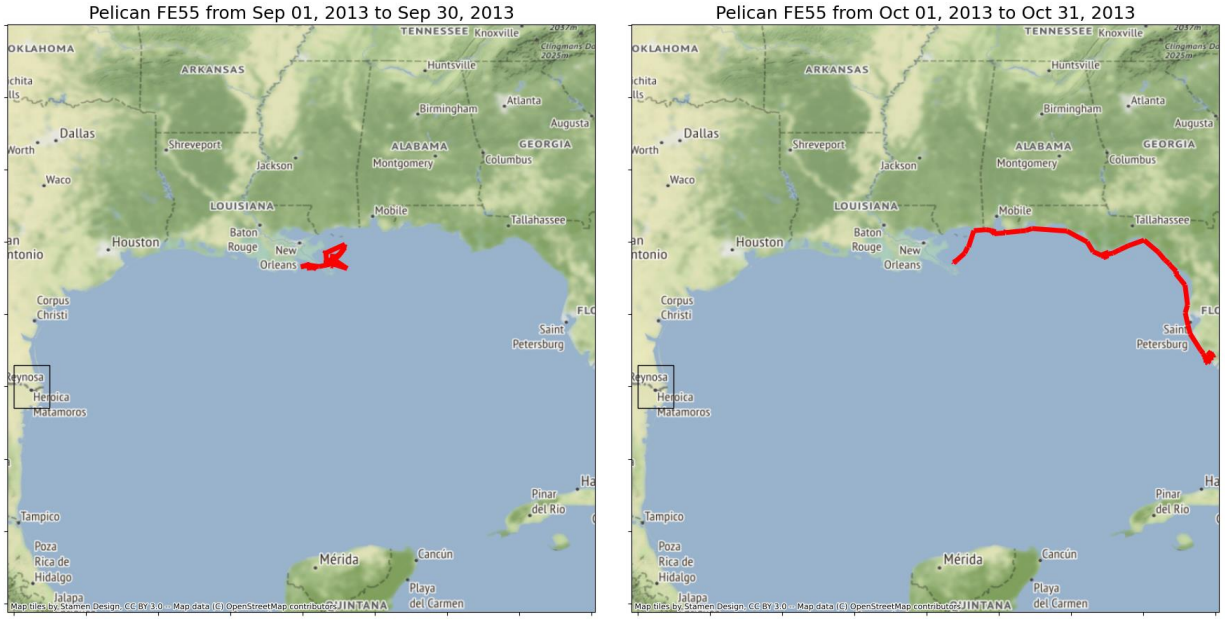

Figure 213 - Movements of FE55 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

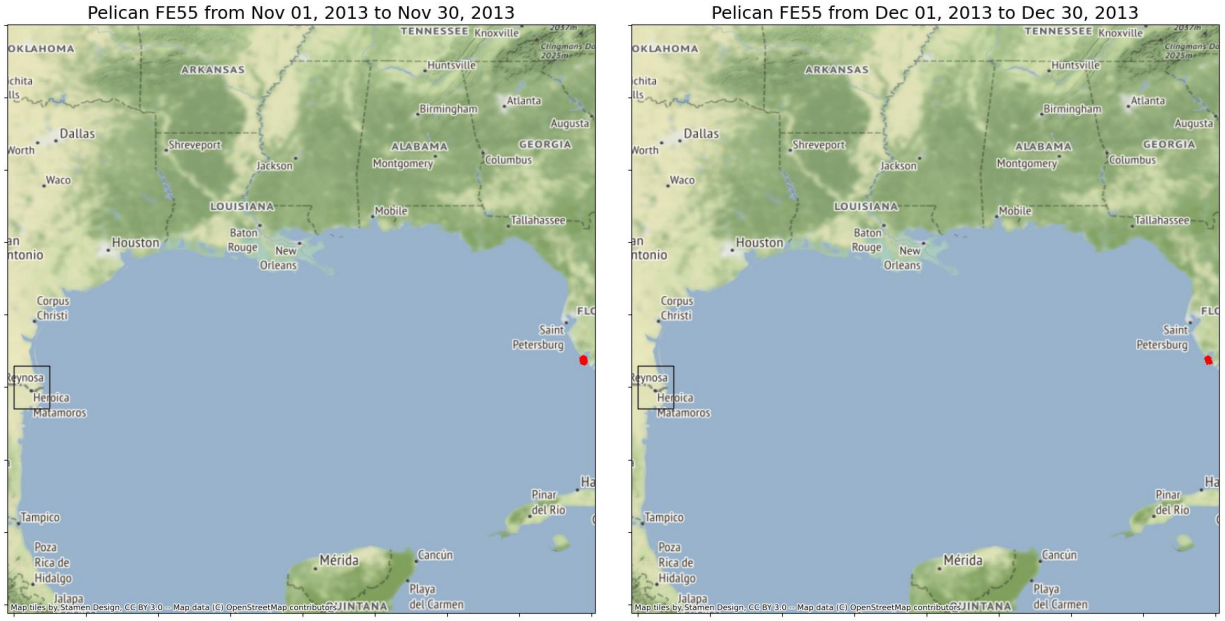

Figure 214 - Movements of FE55 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

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Pelican FE56 – Active from July 2013 to December 2013

Capture Date:	July 02, 2013
Capture Location:	Felicity (LA)
Sex:	M
Status:	rearing chick
Days Active:	180

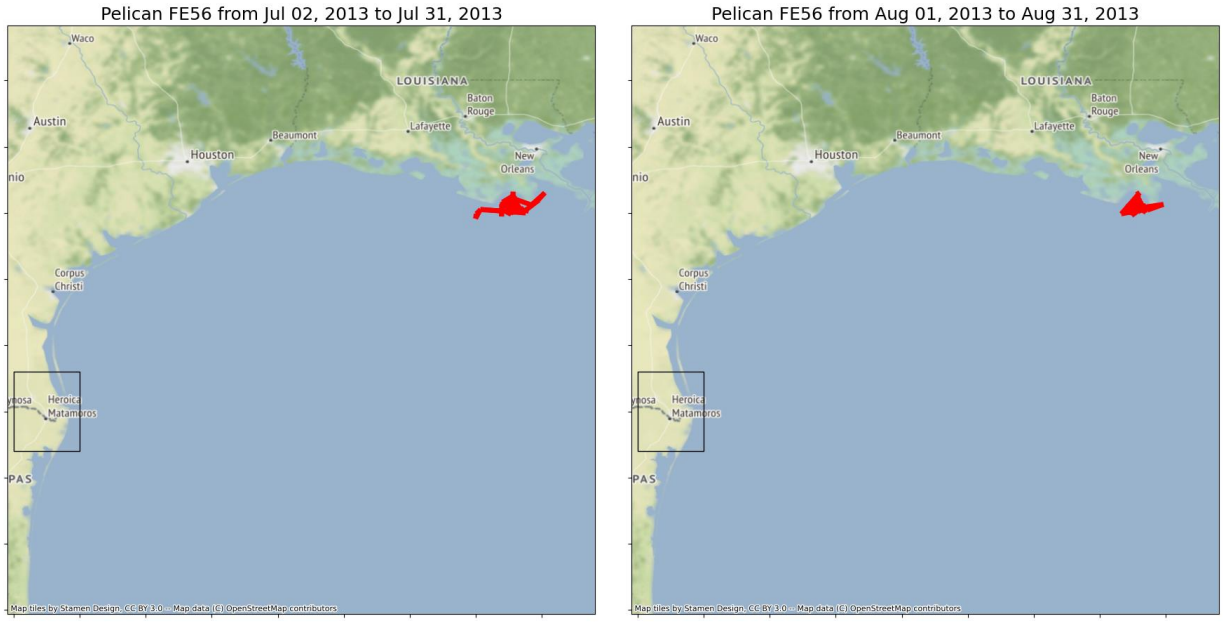

Figure 215 - Movements of FE56 between July 02, 2013 and August 31, 2013. Data from Lamb (2016)

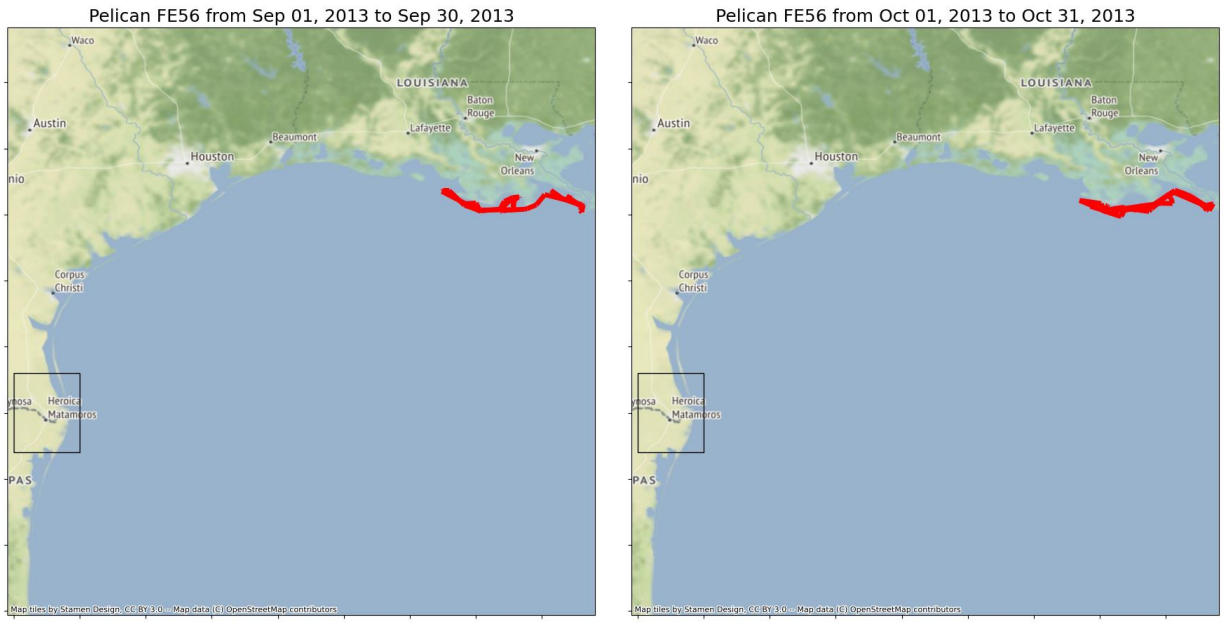

Figure 216 - Movements of FE56 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

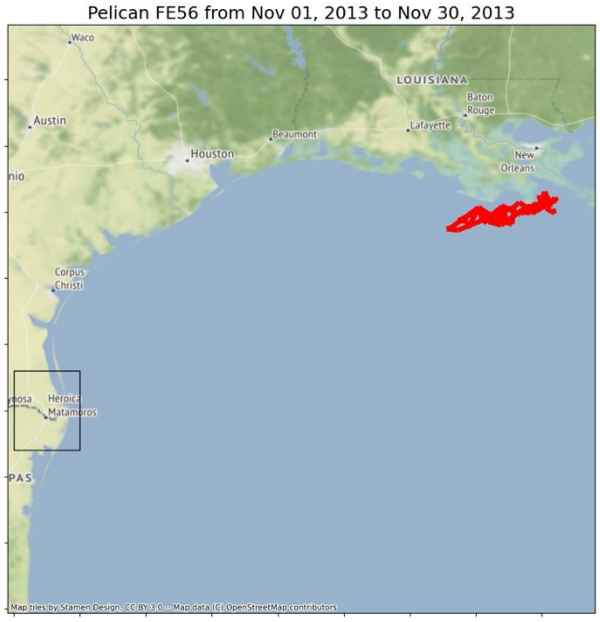

Figure 217 - Movements of FE56 between November 01, 2013 and November 30, 2013. Data from Lamb (2016)

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Pelican FE57 – Active from July 2013 to January 2014

Capture Date: July 02, 2013
Capture Location: Felicity (LA)
Sex: M
Status: rearing chick
Days Active: 190

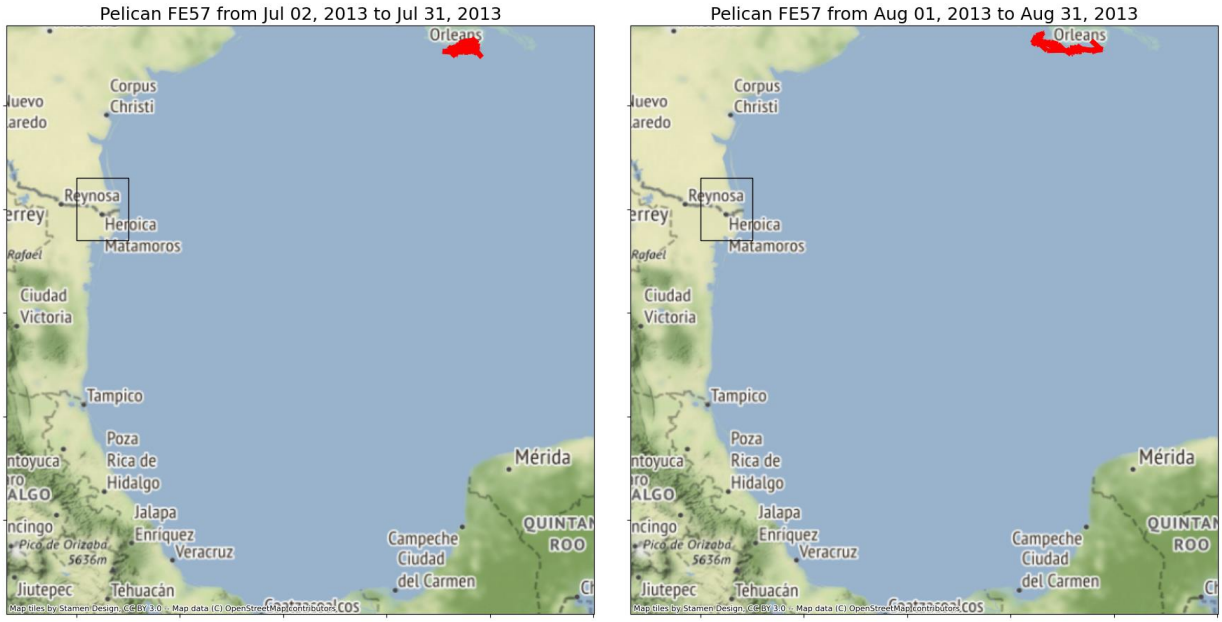

Figure 218 - Movements of FE57 between July 02, 2013 and August 31, 2013. Data from Lamb (2016)

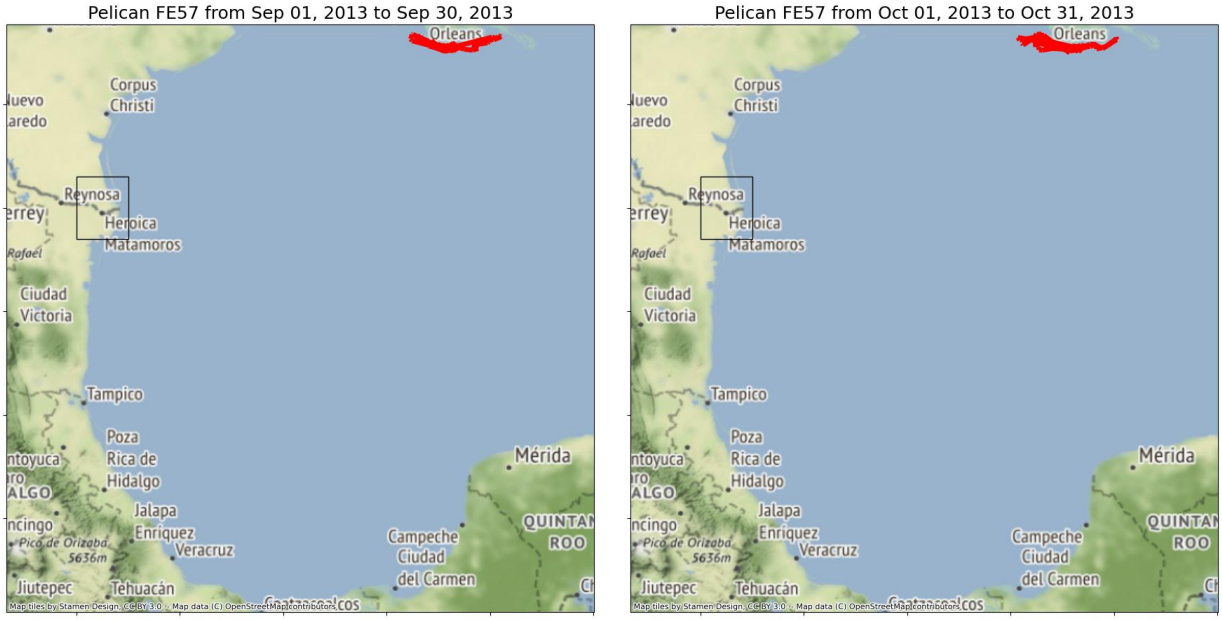

Figure 219 - Movements of FE57 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

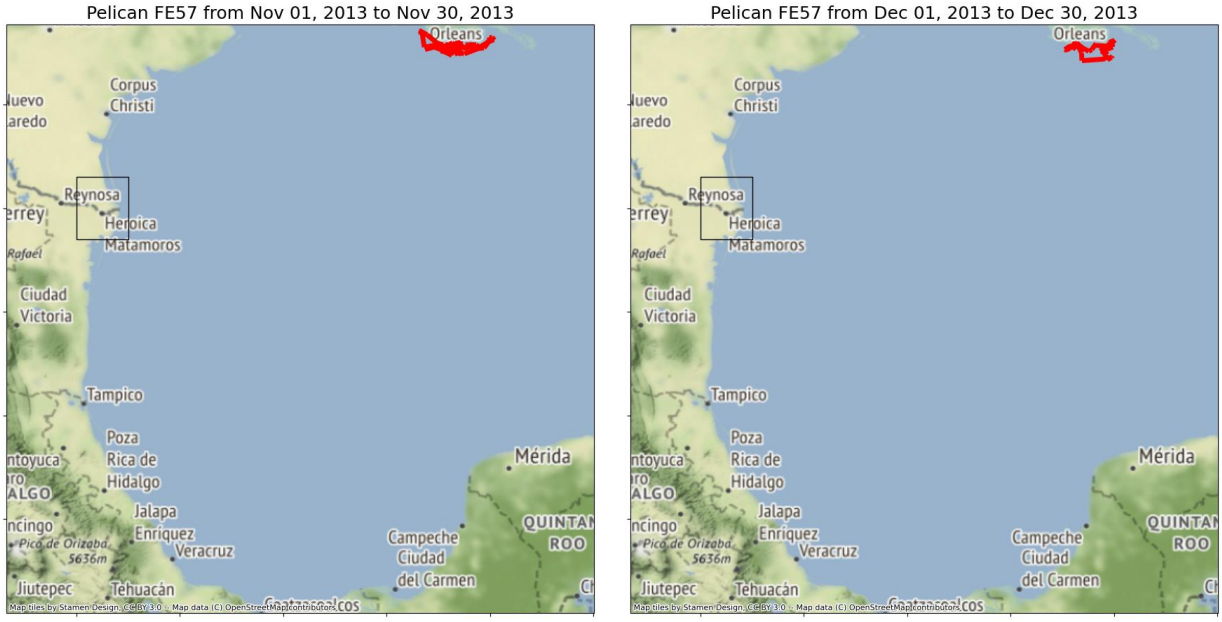

Figure 220 - Movements of FE57 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

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Pelican FE58 – Active from July 2013 to January 2014

Capture Date:	July 02, 2013
Capture Location:	Felicity (LA)
Sex:	F
Status:	rearing chick
Days Active:	210

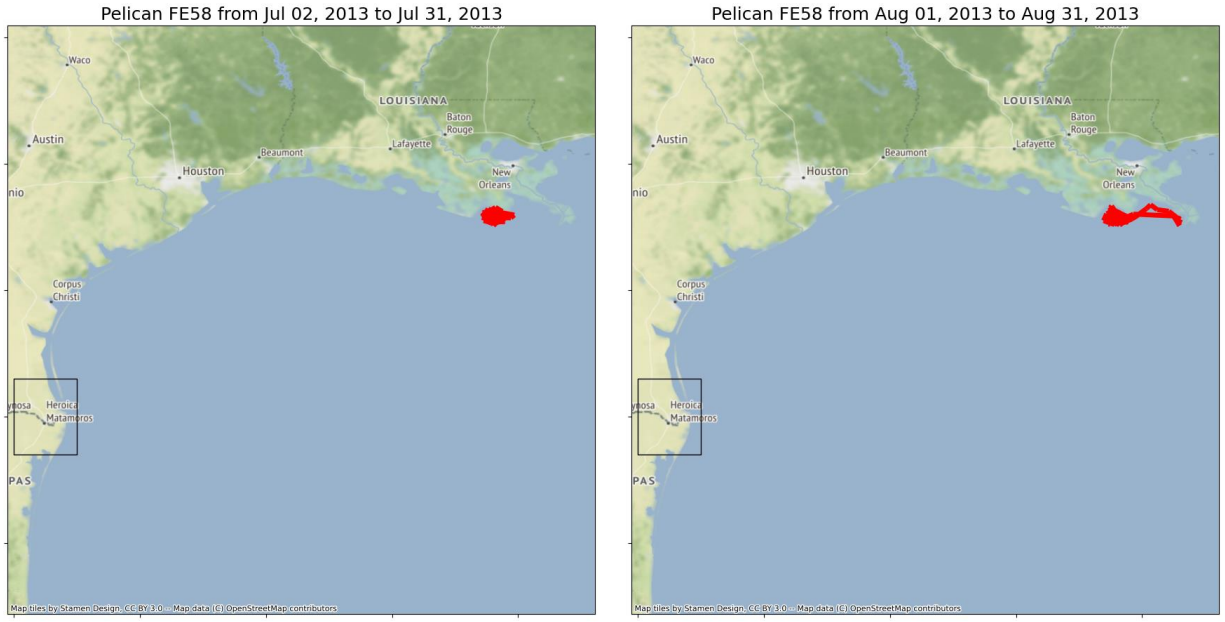

Figure 221 - Movements of FE58 between July 02, 2013 and August 31, 2013. Data from Lamb (2016)

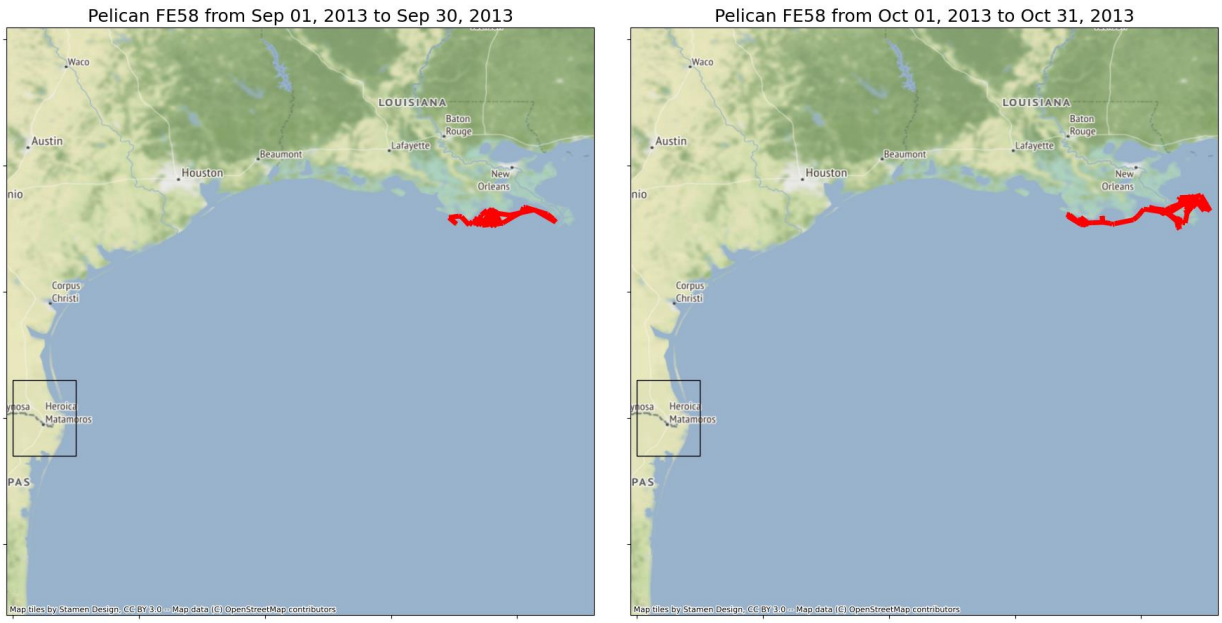

Figure 222 - Movements of FE58 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

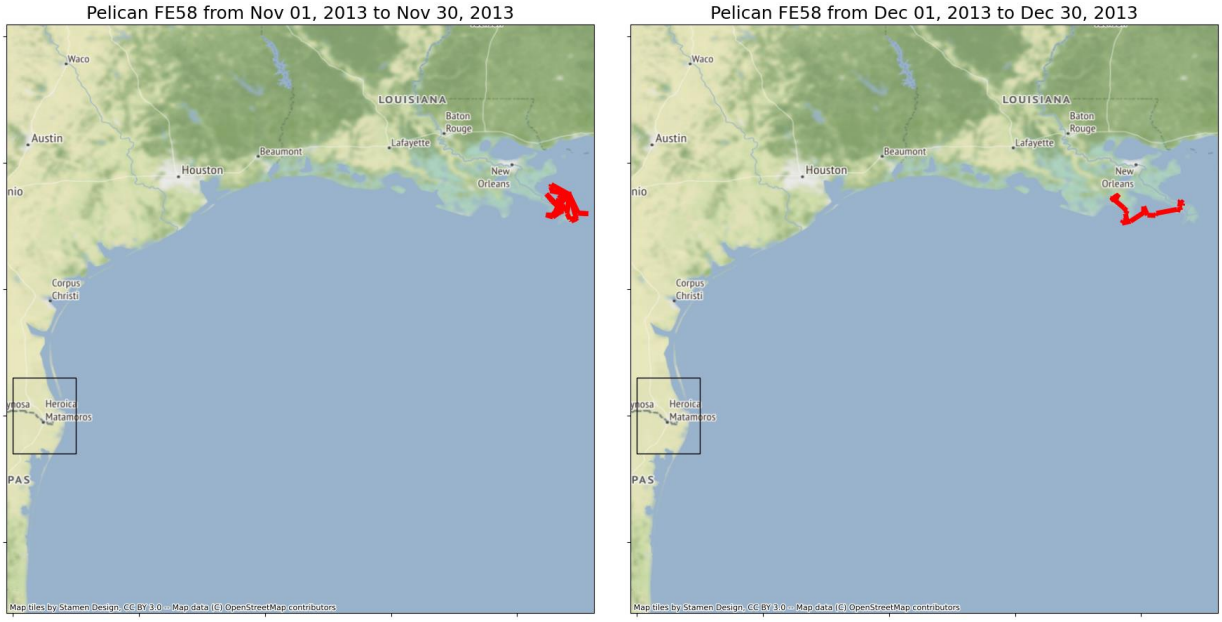

Figure 223 - Movements of FE58 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

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Pelican FE59 – Active from July 2013 to September 2013

Capture Date:	July 16, 2013
Capture Location:	Felicity (LA)
Sex:	M
Status:	rearing chick
Days Active:	58

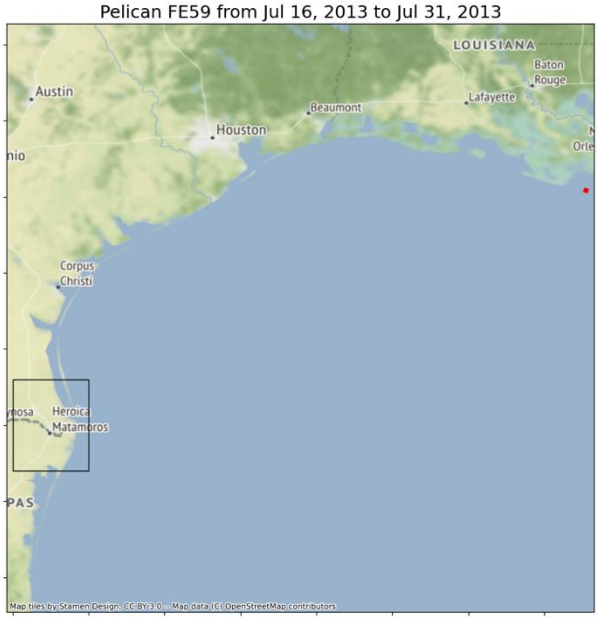

Figure 224 - Movements of FE59 between July 16, 2013 and July 31, 2013. Data from Lamb (2016)

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Pelican FE73 – Active from April 2014 to February 2016

Capture Date:	April 26, 2014
Capture Location:	Felicity (LA)
Sex:	F
Status:	rearing chick
Days Active:	650

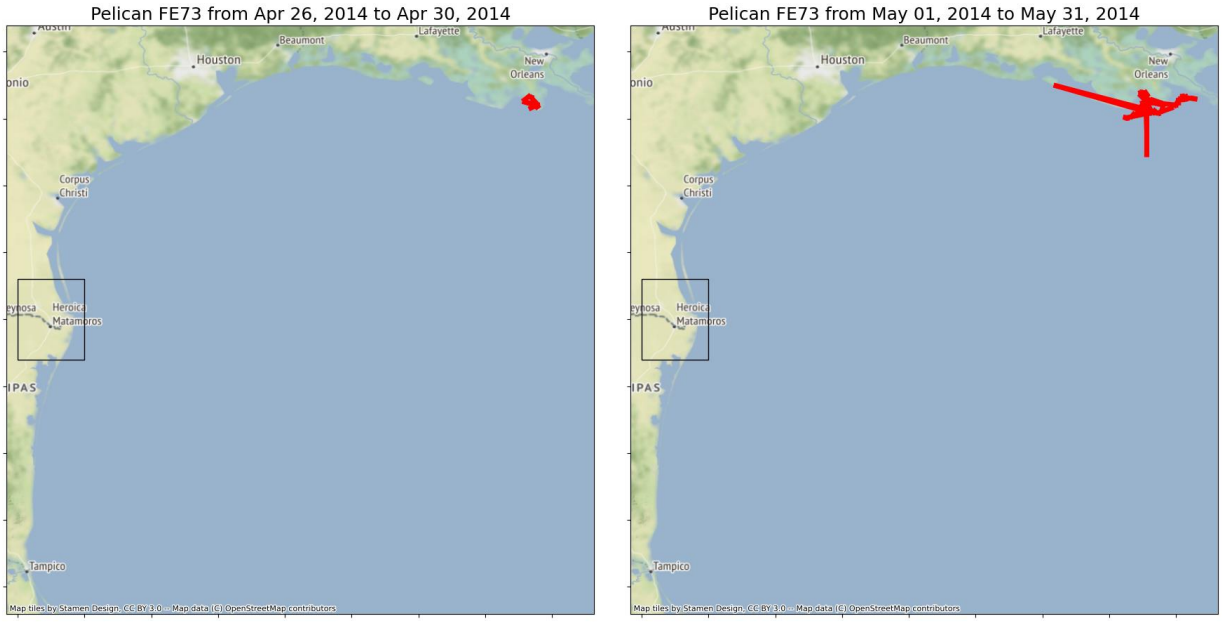

Figure 225 - Movements of FE73 between April 26, 2014 and May 31, 2014. Data from Lamb (2016)

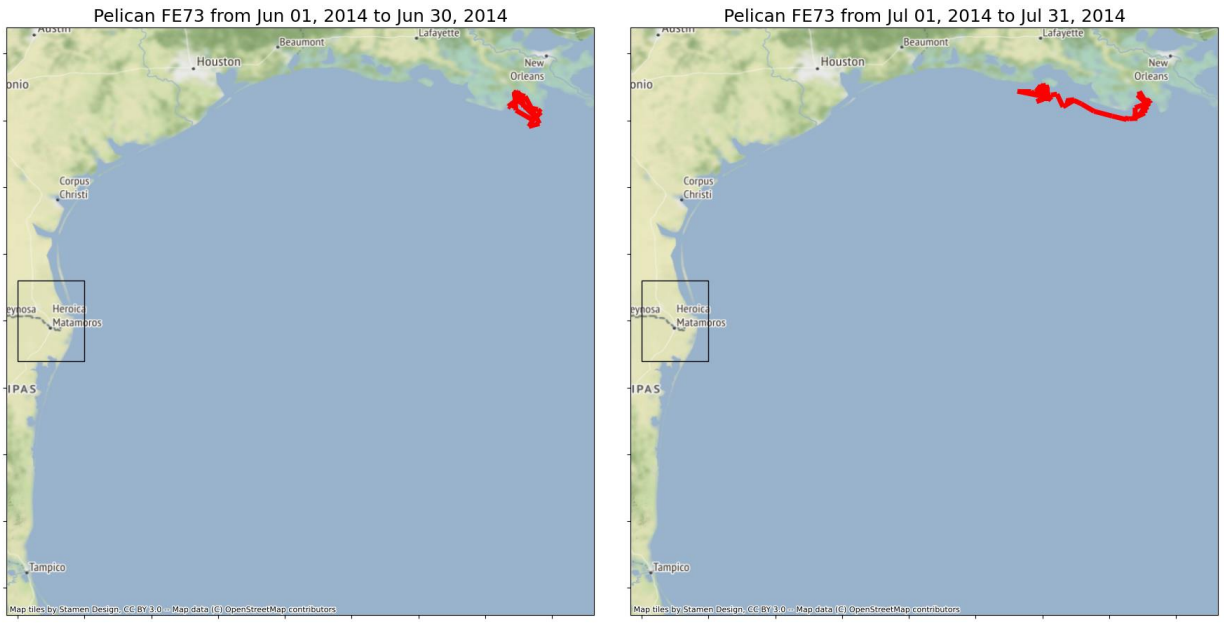

Figure 226 - Movements of FE73 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

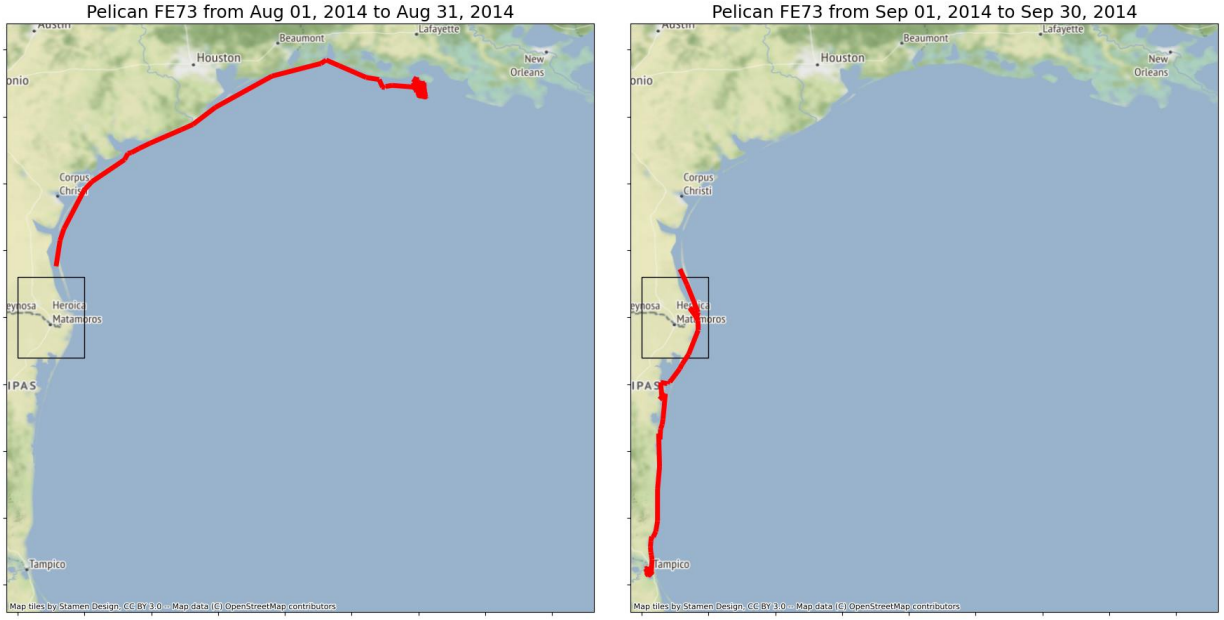

Figure 227 - Movements of FE73 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

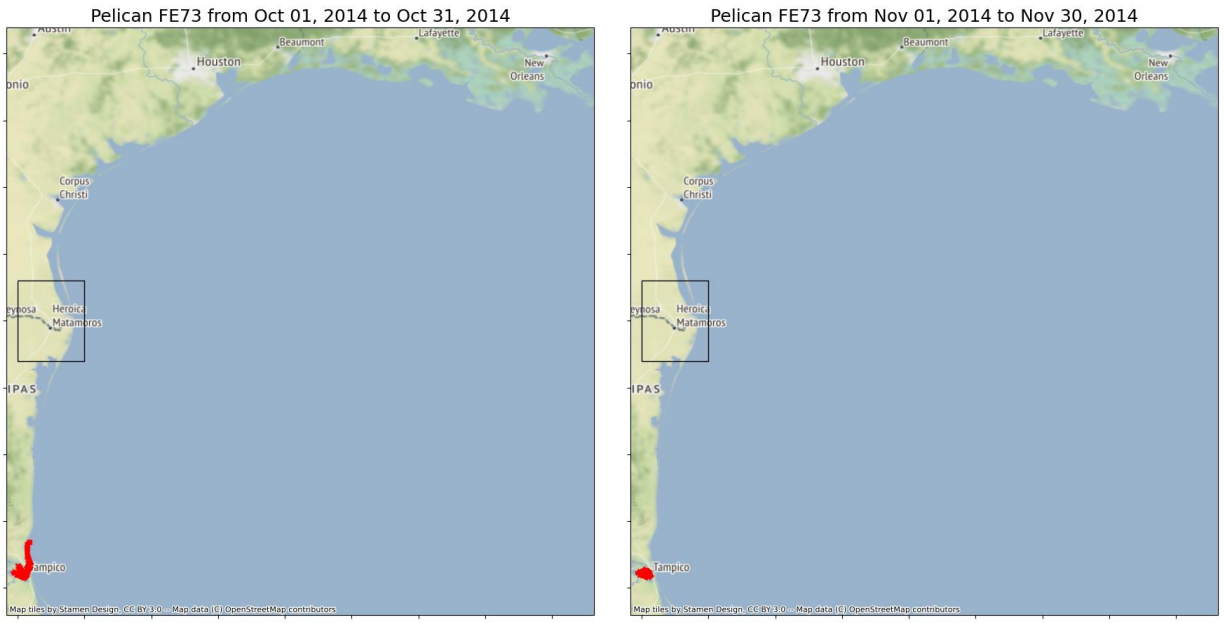

Figure 228 - Movements of FE73 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

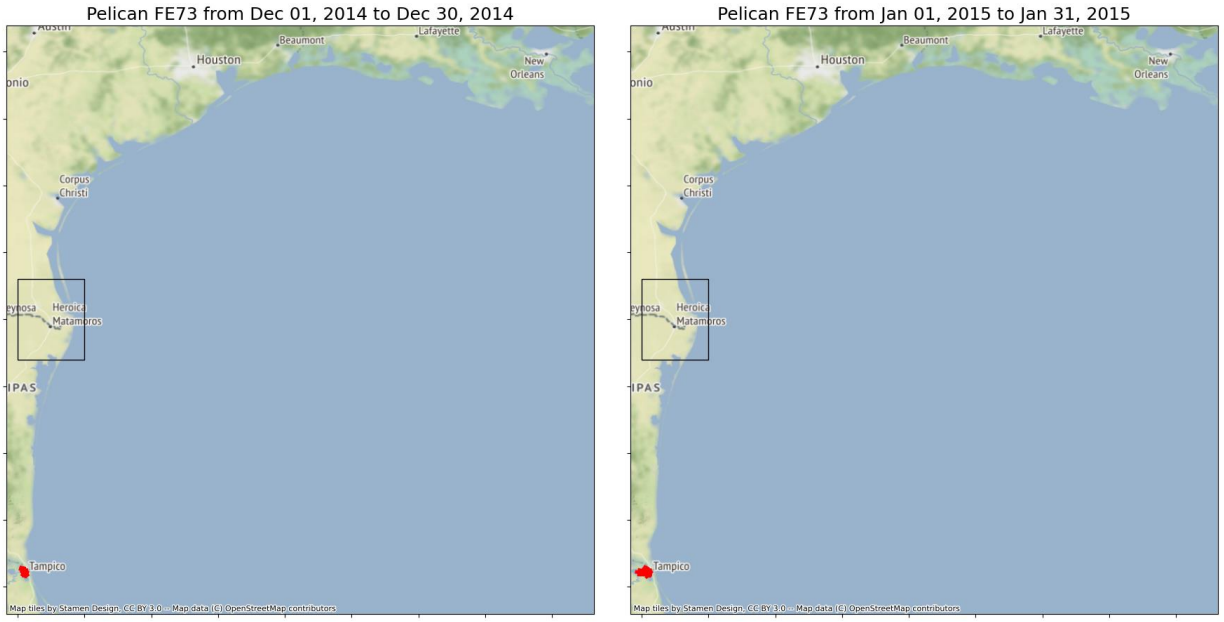

Figure 229 - Movements of FE73 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

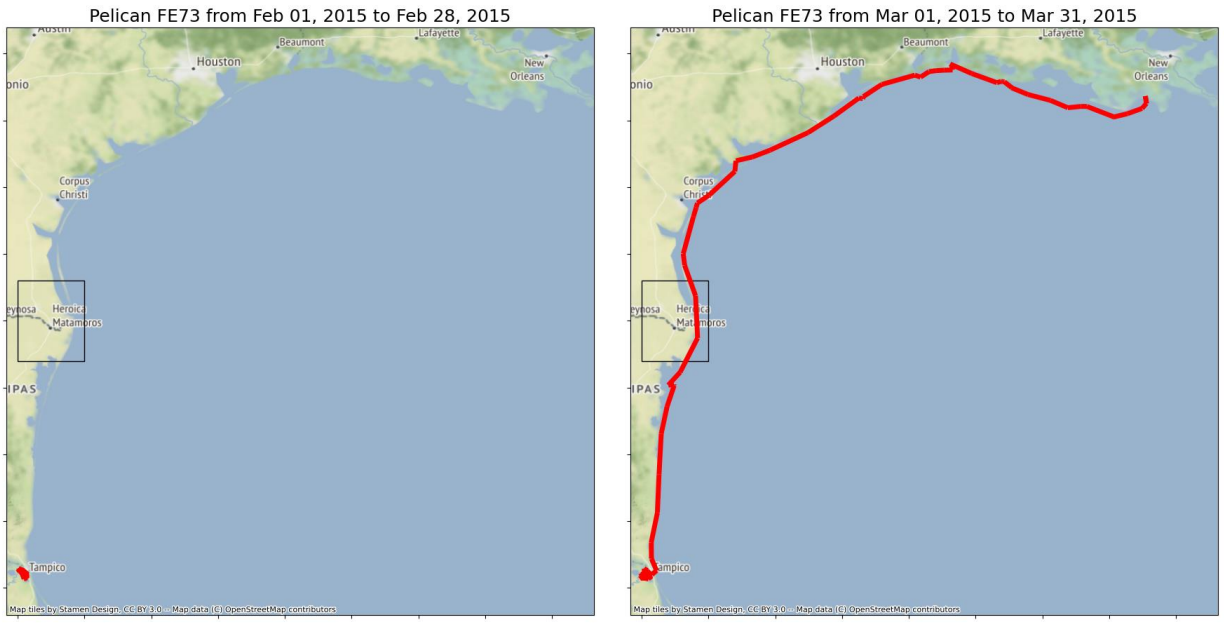

Figure 230 - Movements of FE73 between February 01, 2015 and March 31, 2015. Data from Lamb (2016)

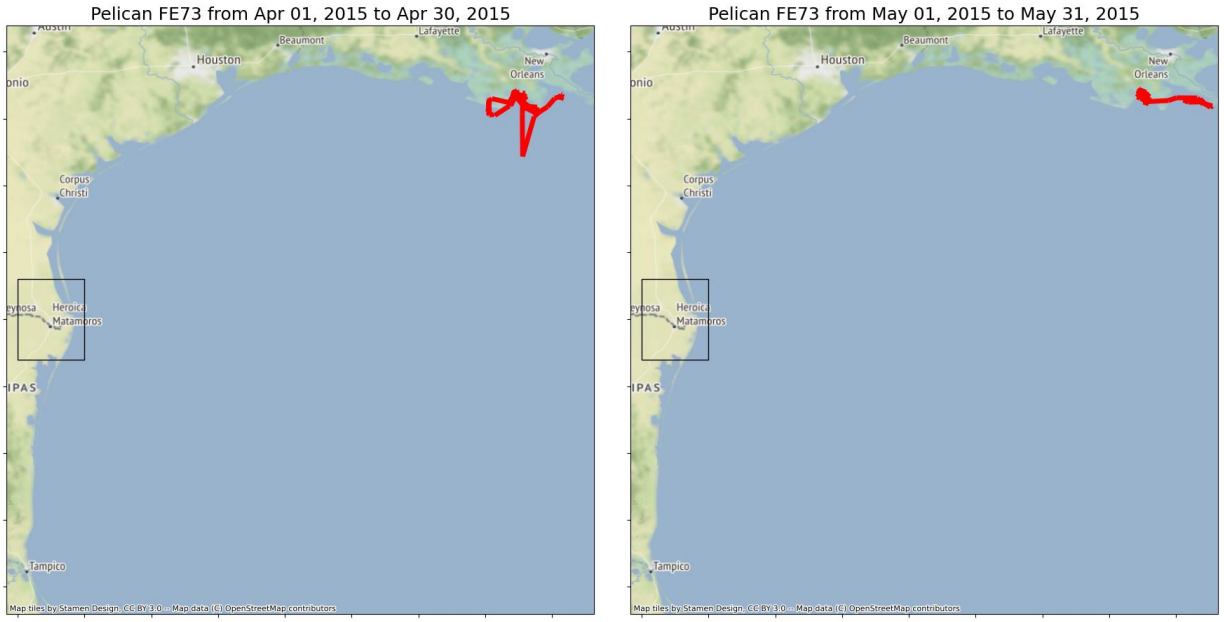

Figure 231 - Movements of FE73 between April 01, 2015 and May 31, 2015. Data from Lamb (2016)

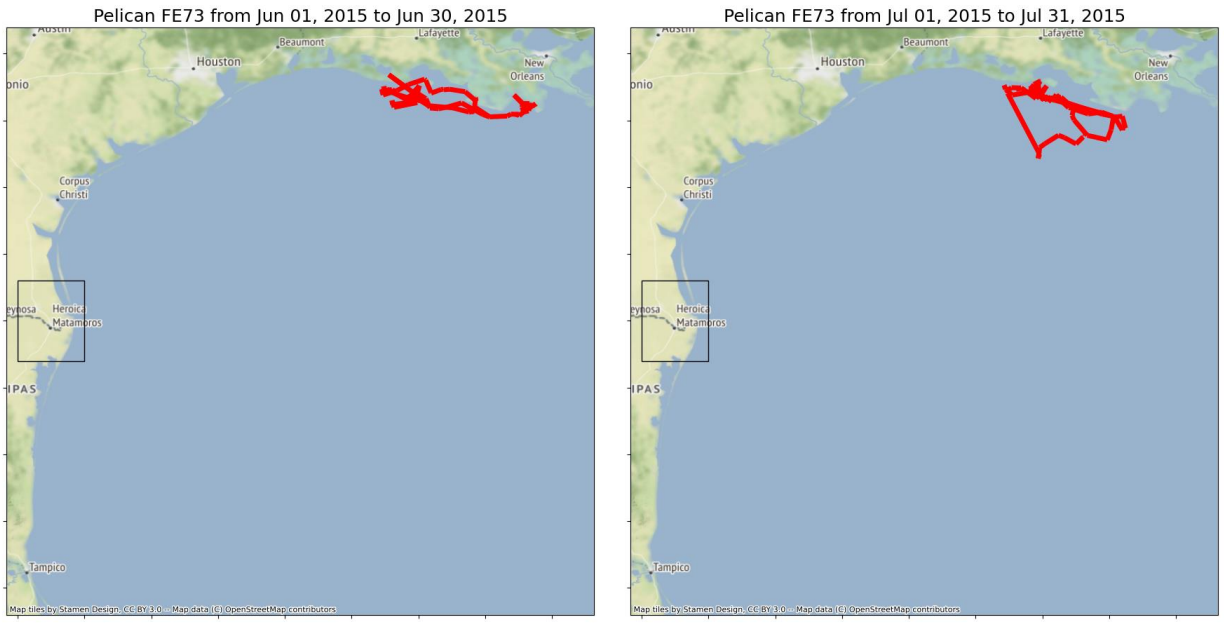

Figure 232 - Movements of FE73 between June 01, 2015 and July 31, 2015. Data from Lamb (2016)

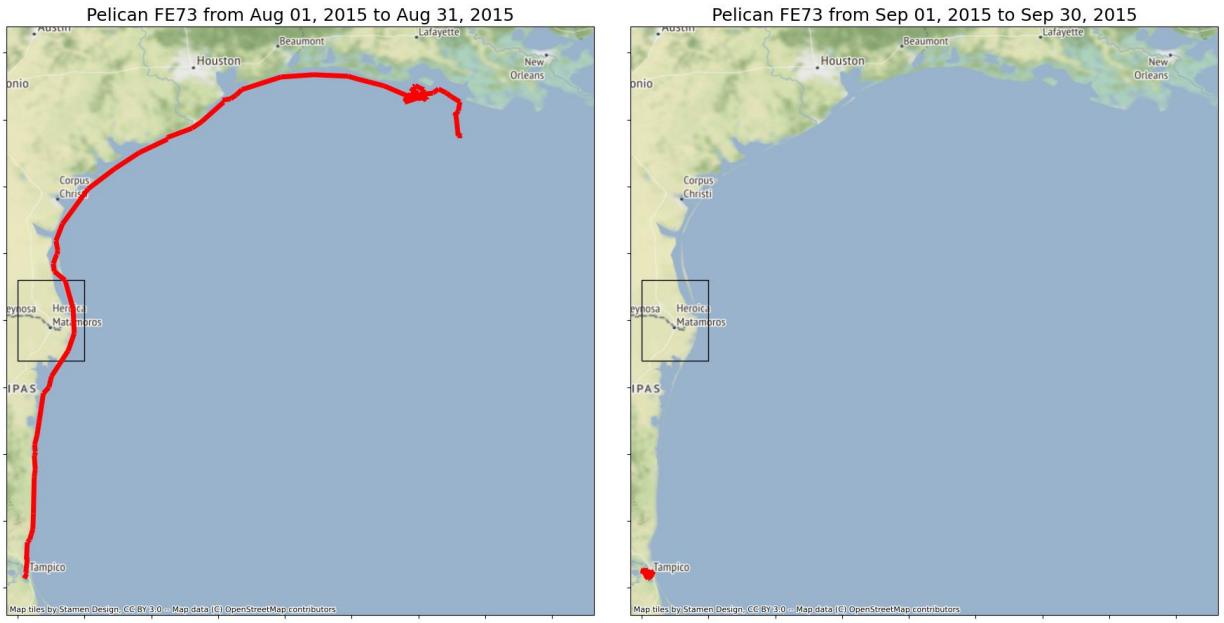

Figure 233 - Movements of FE73 between August 01, 2015 and September 30, 2015. Data from Lamb (2016)

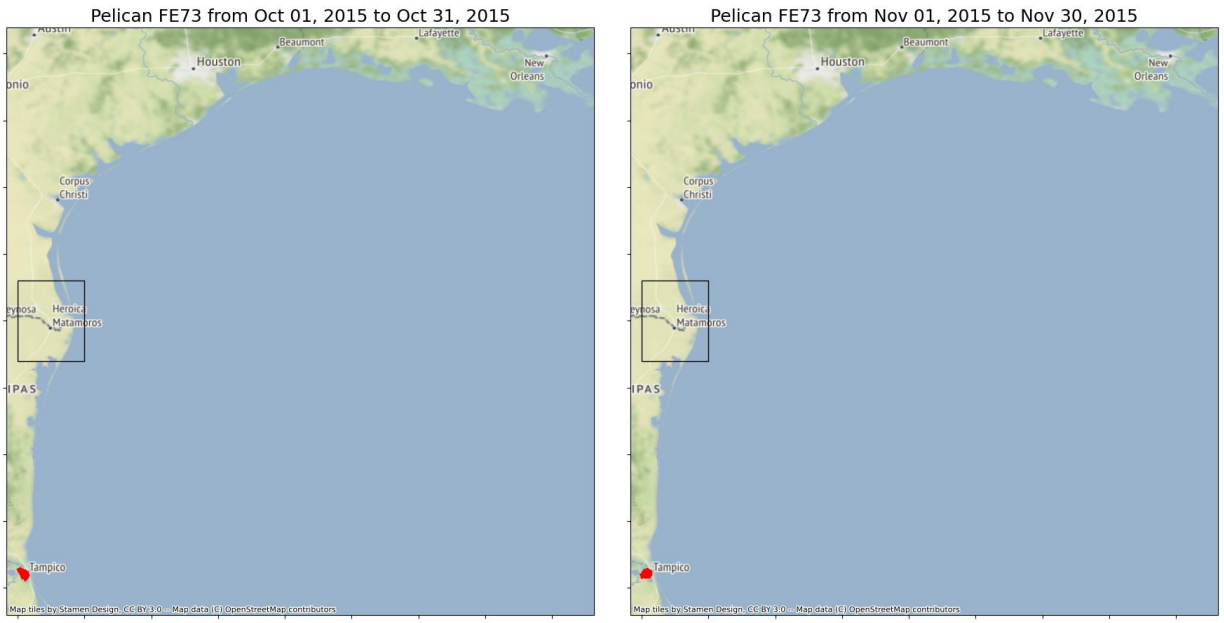

Figure 234 - Movements of FE73 between October 01, 2015 and November 30, 2015. Data from Lamb (2016)

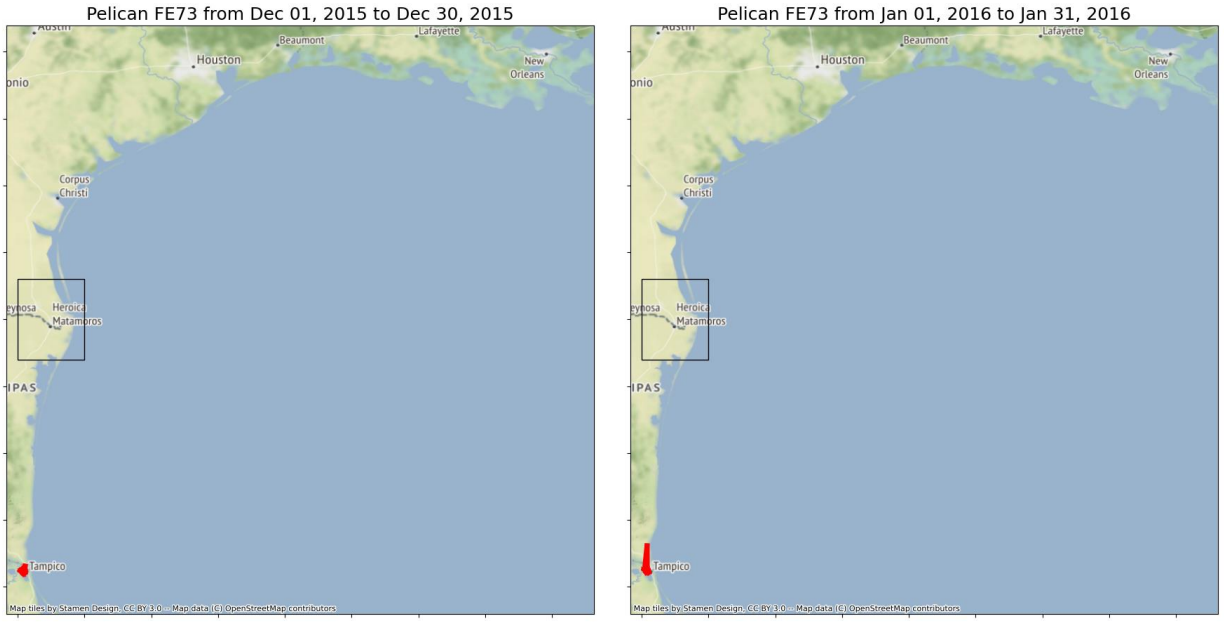

Figure 235 - Movements of FE73 between December 01, 2015 and January 31, 2016. Data from Lamb (2016)

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Pelican FE74 – Active from April 2014 to December 2014

Capture Date: April 26, 2014
Capture Location: Felicity (LA)
Sex: F
Status: incubating
Days Active: 227

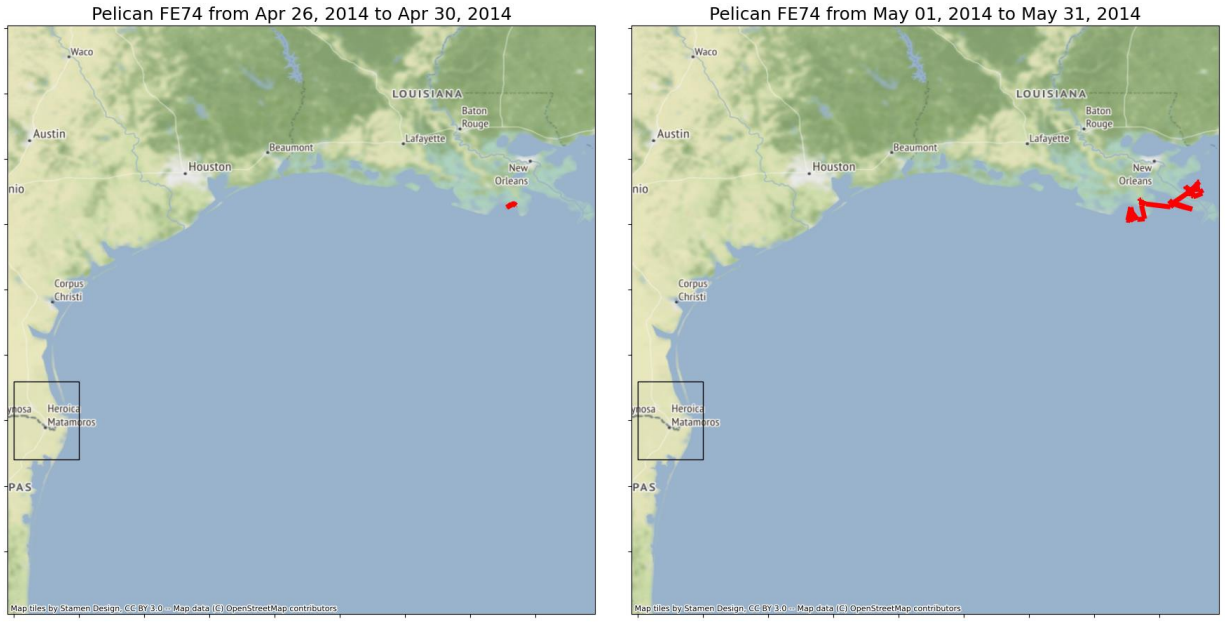

Figure 236 - Movements of FE74 between April 26, 2014 and May 31, 2014. Data from Lamb (2016)

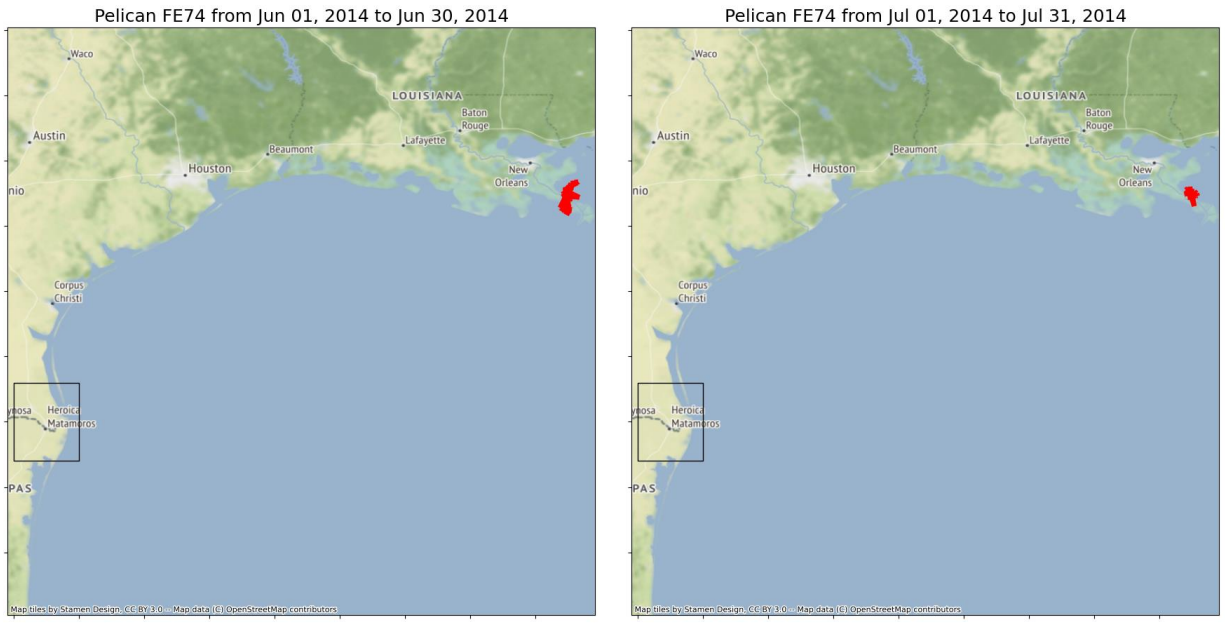

Figure 237 - Movements of FE74 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

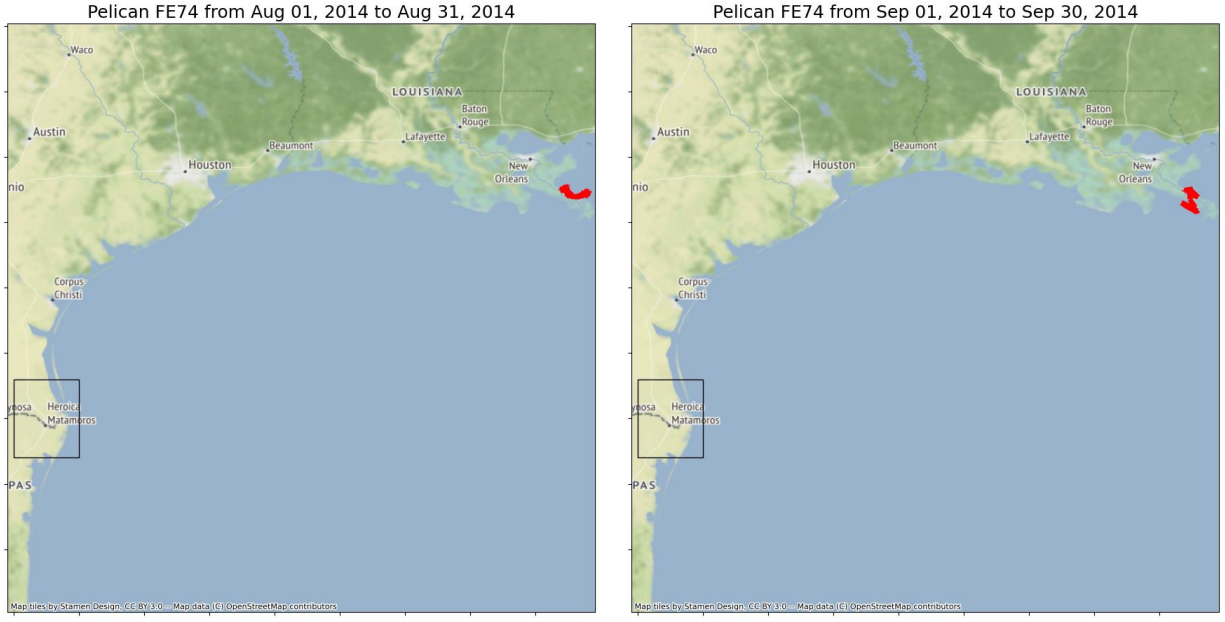

Figure 238 - Movements of FE74 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

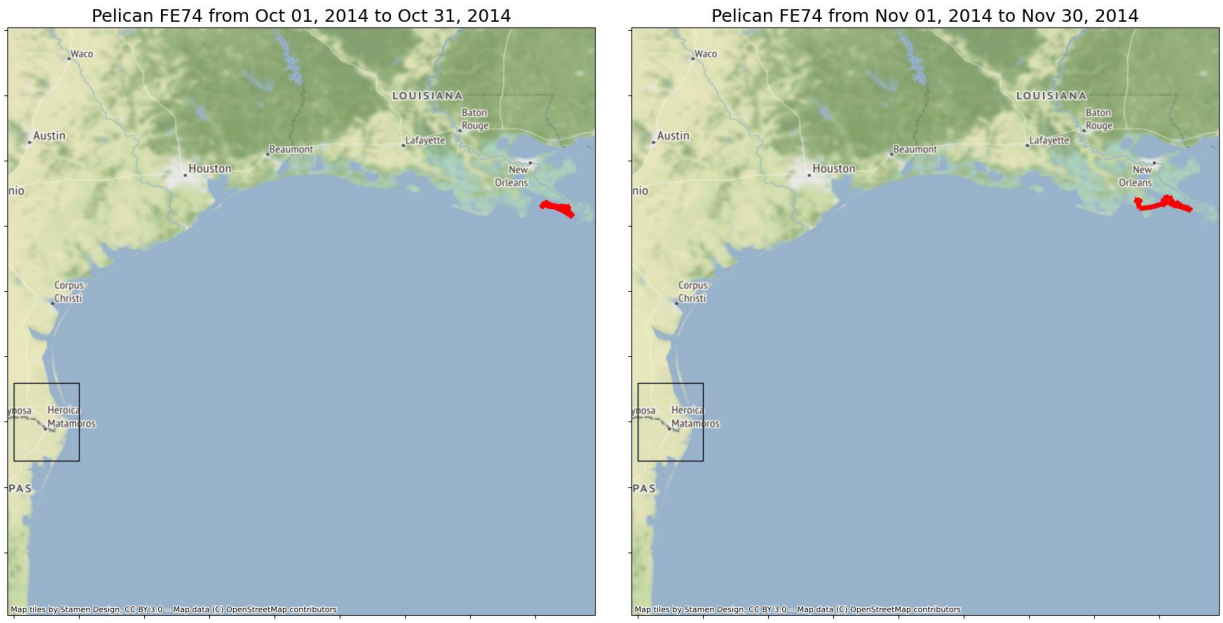

Figure 239 - Movements of FE74 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

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Pelican FE75 – Active from April 2014 to August 2015

Capture Date: April 26, 2014
Capture Location: Felicity (LA)
Sex: F
Status: incubating
Days Active: 464

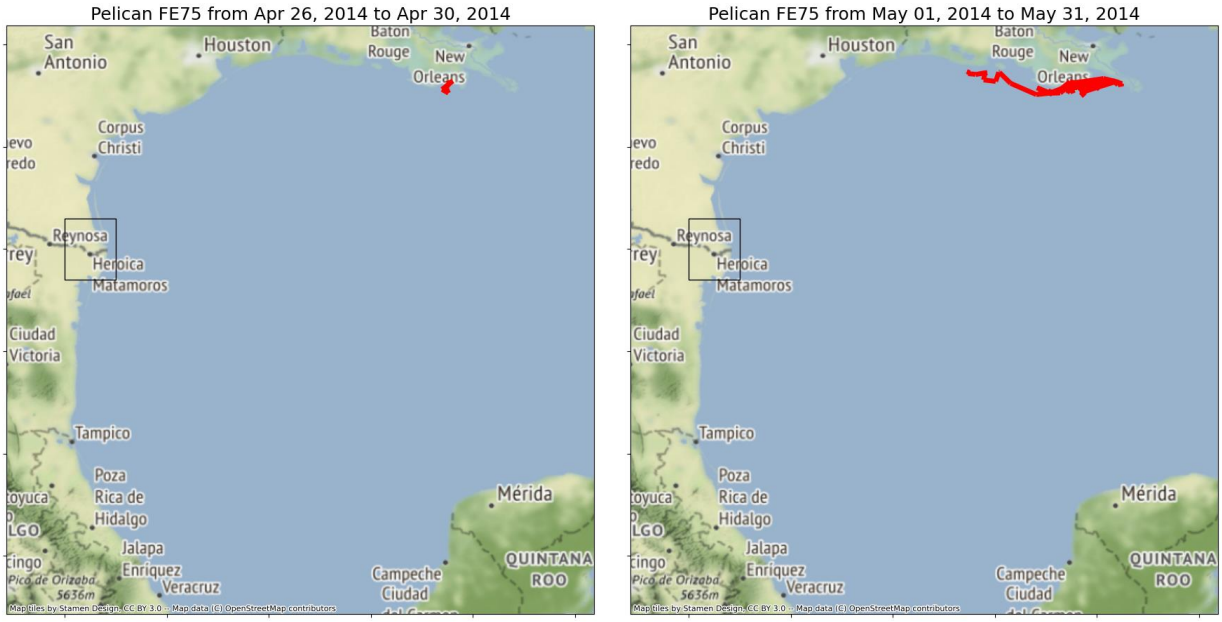
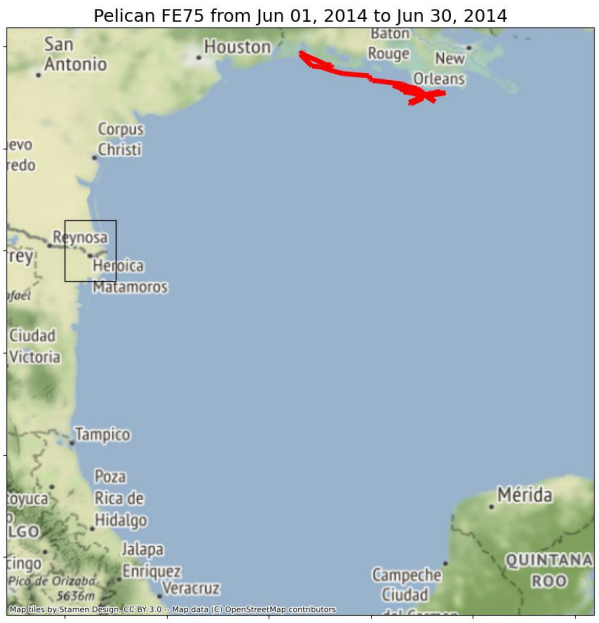


Figure 240 - Movements of FE75 between April 26, 2014 and May 31, 2014. Data from Lamb (2016)



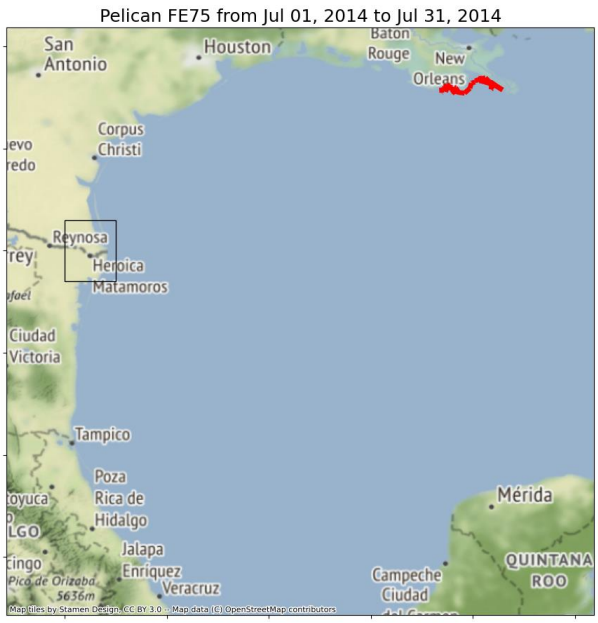
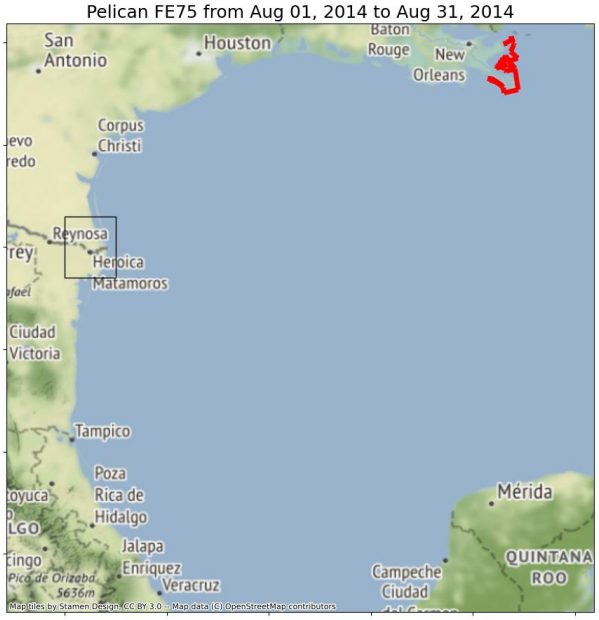


Figure 241 - Movements of FE75 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)



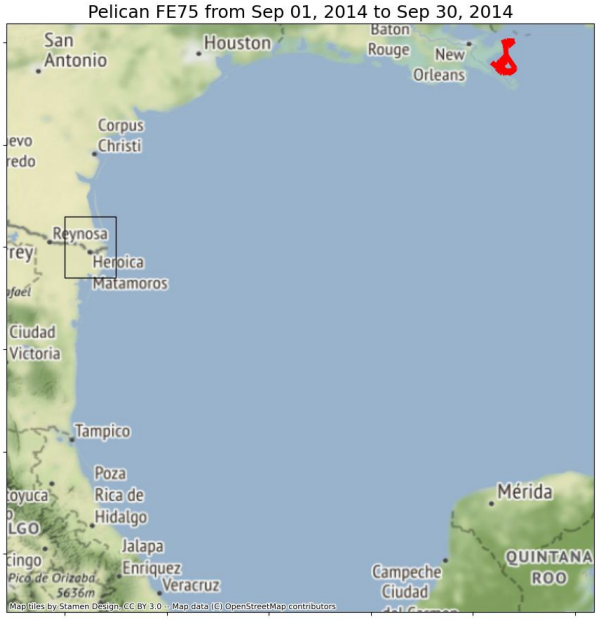


Figure 242 - Movements of FE75 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

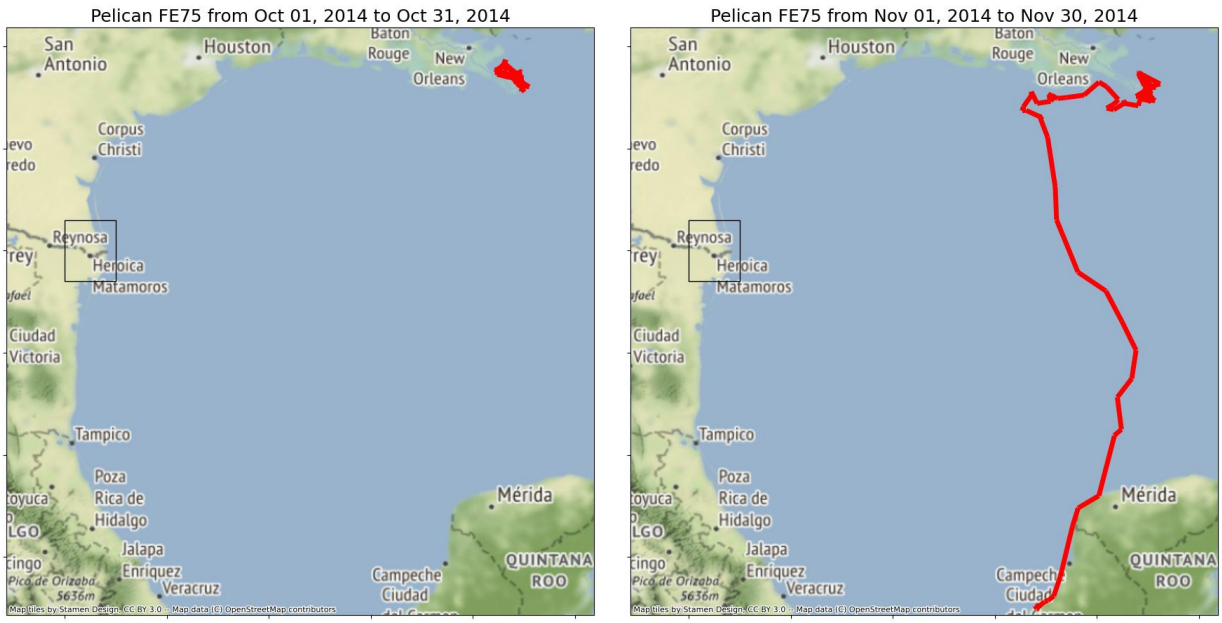


Figure 243 - Movements of FE75 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

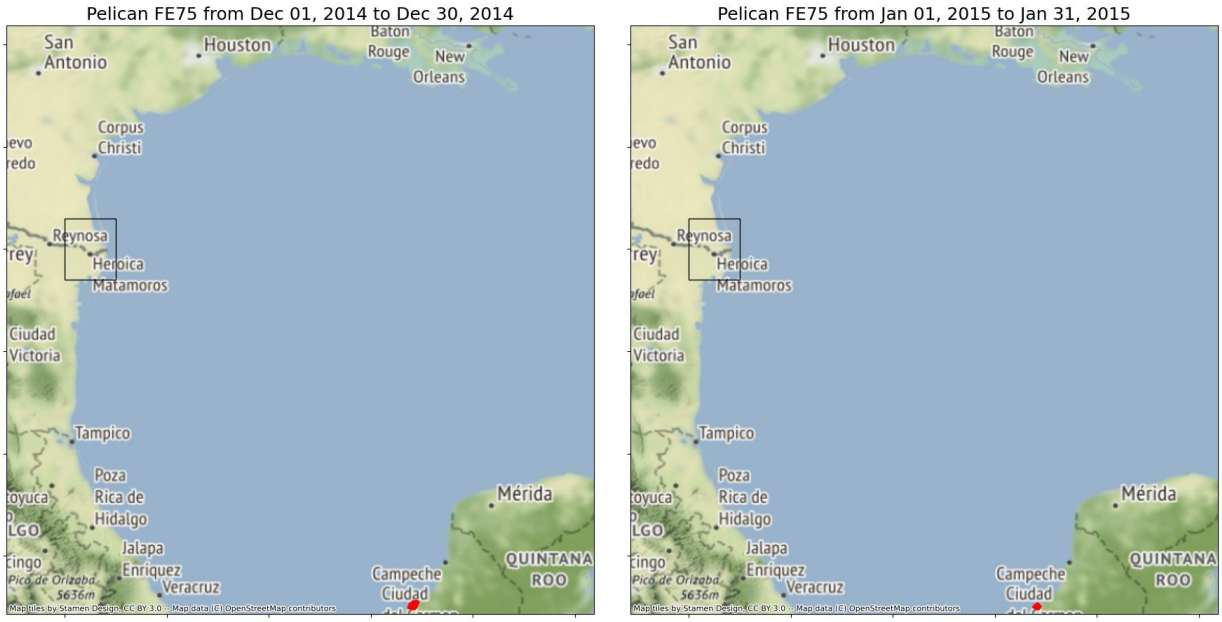


Figure 244 - Movements of FE75 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

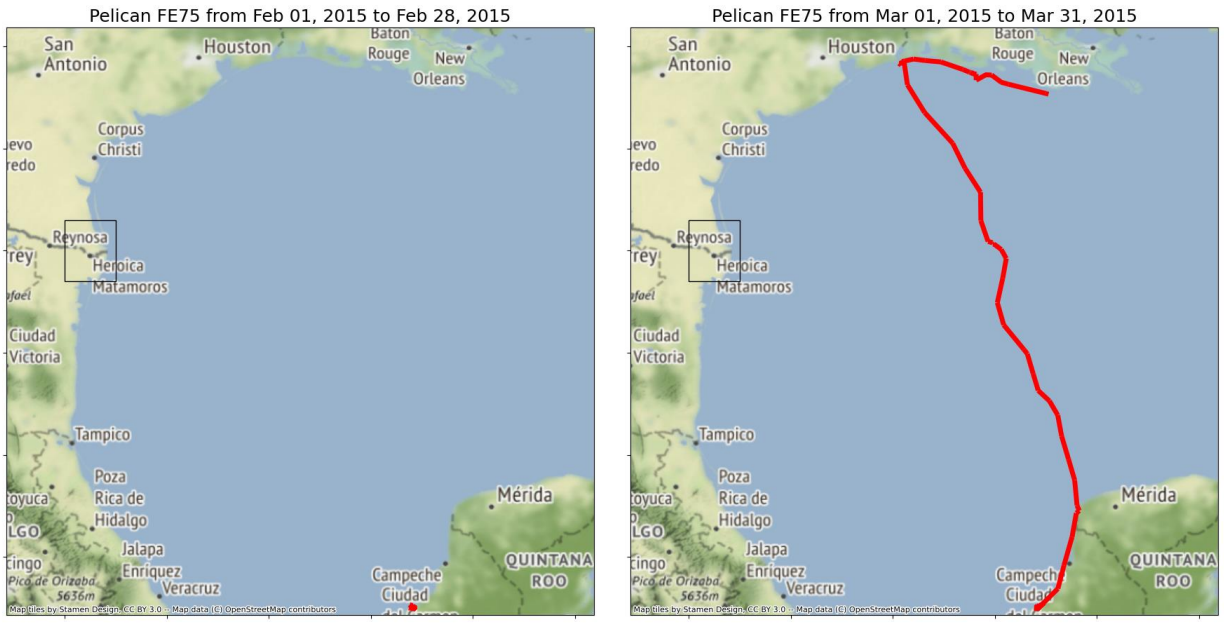


Figure 245 - Movements of FE75 between February 01, 2015 and March 31, 2015. Data from Lamb (2016)

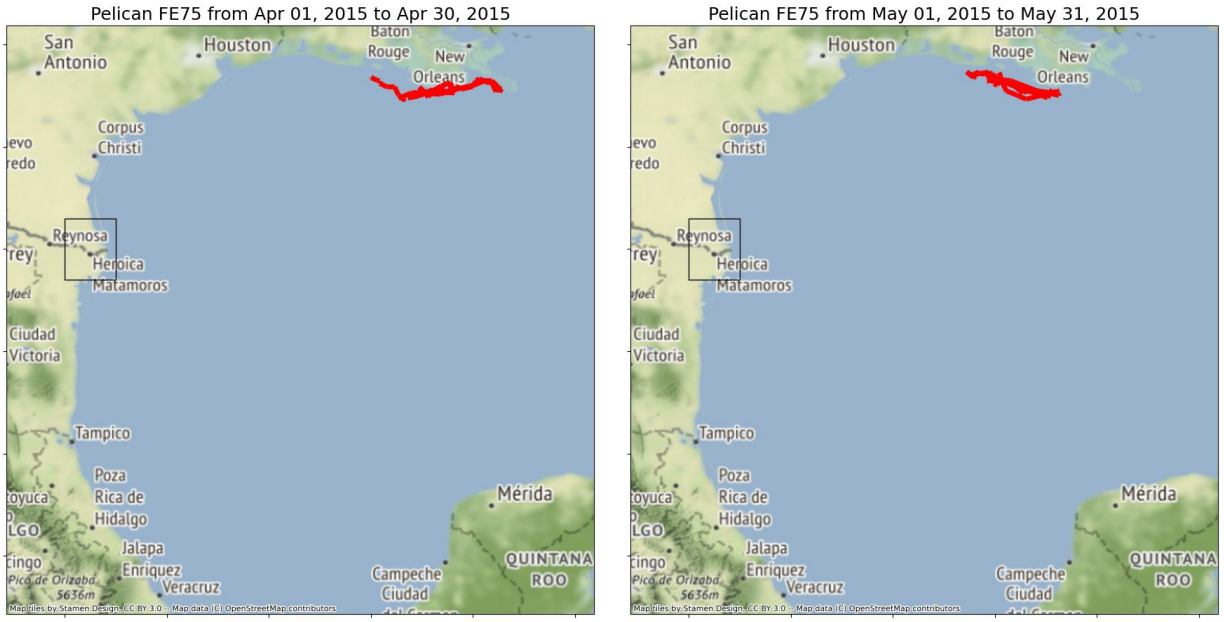


Figure 246 - Movements of FE75 between April 01, 2015 and May 31, 2015. Data from Lamb (2016)

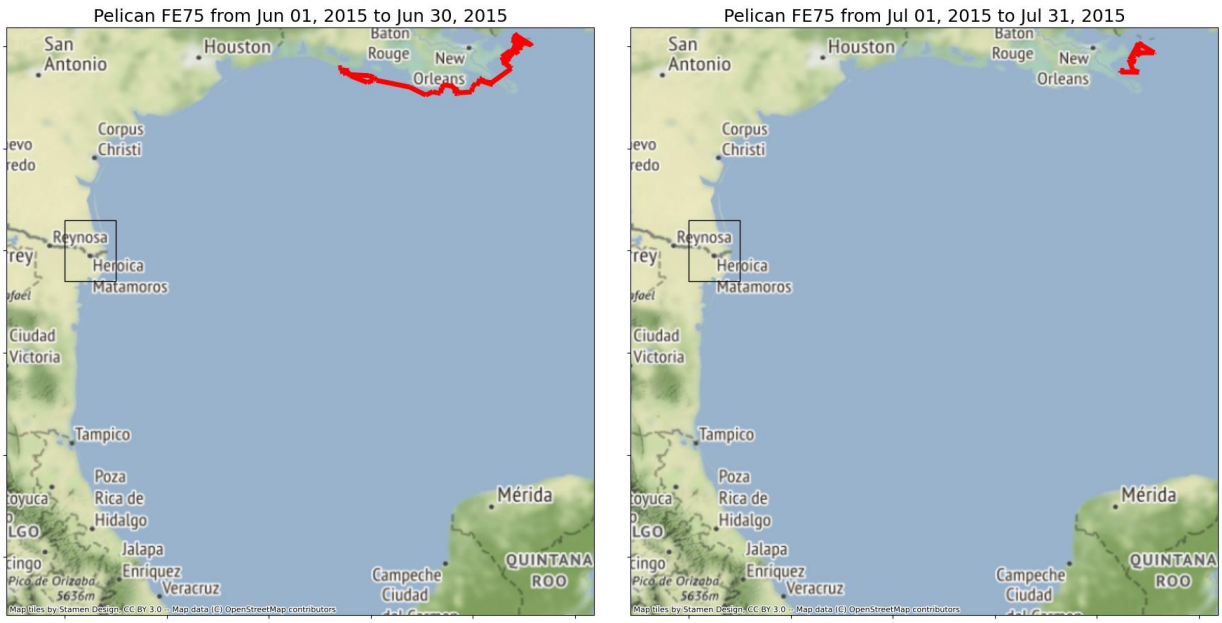


Figure 247 - Movements of FE75 between June 01, 2015 and July 31, 2015. Data from Lamb (2016)

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Pelican FE76 – Active from April 2014 to February 2016

Capture Date: April 26, 2014
Capture Location: Felicity (LA)
Sex: F
Status: incubating
Days Active: 649

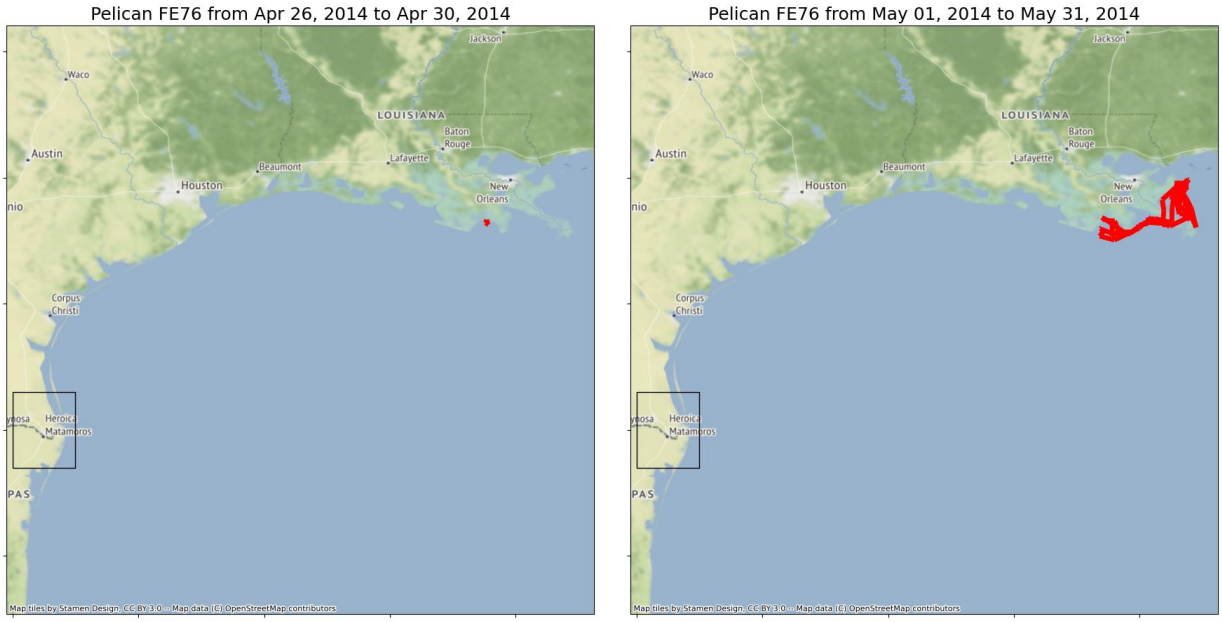

Figure 248 - Movements of FE76 between April 26, 2014 and May 31, 2014. Data from Lamb (2016)

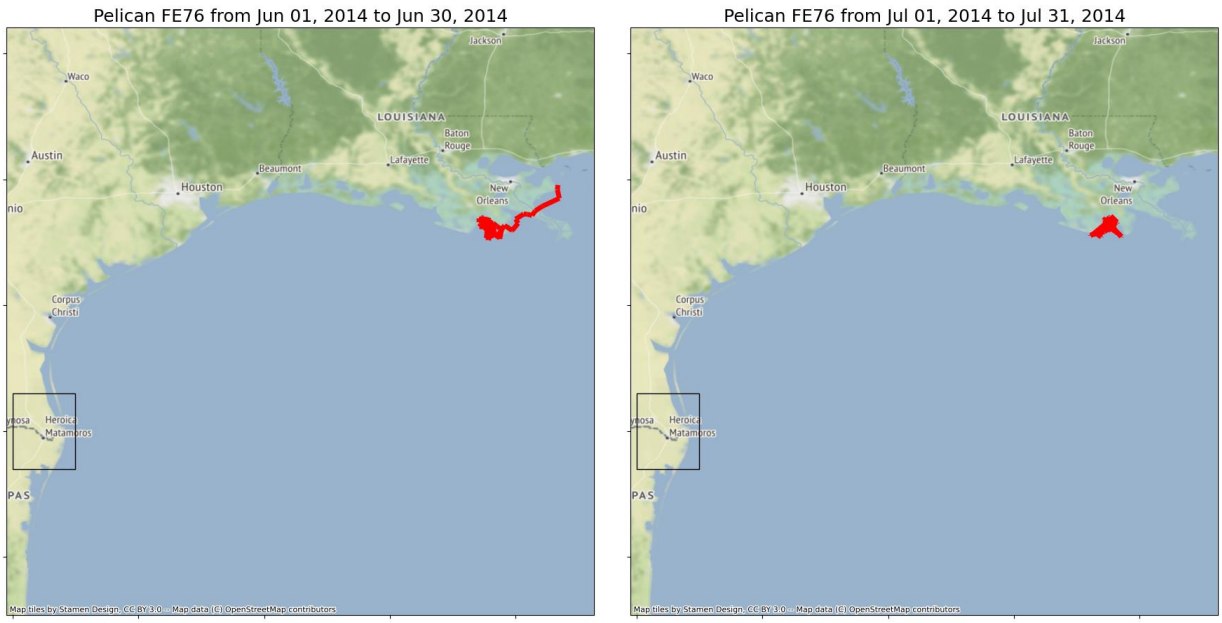

Figure 249 - Movements of FE76 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

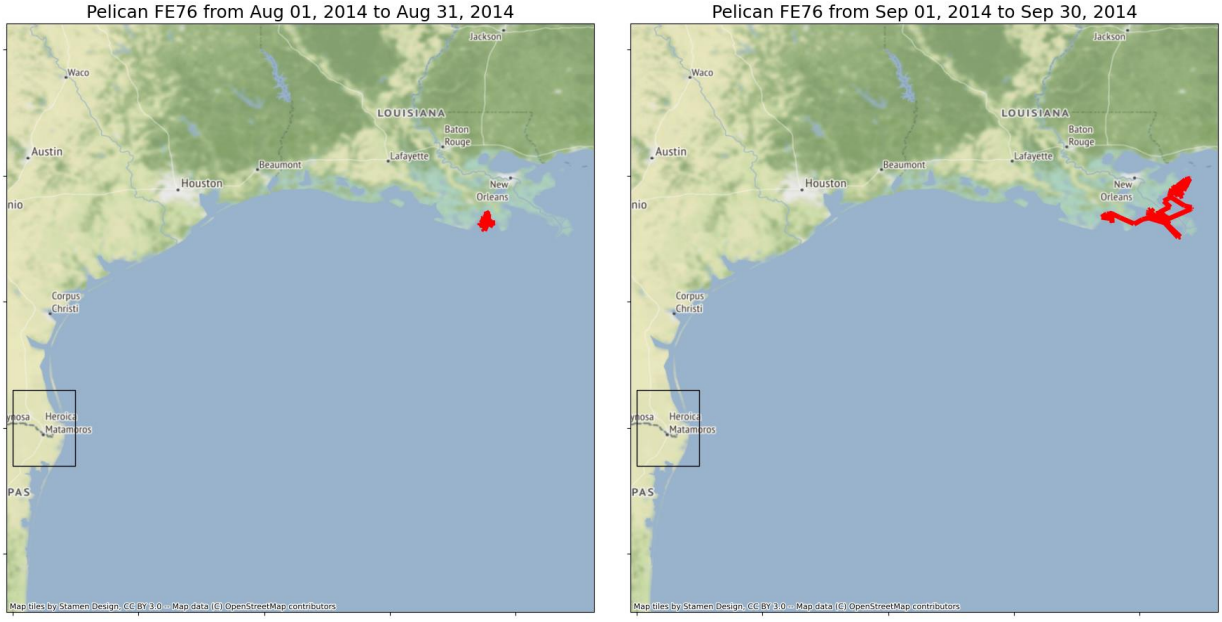

Figure 250 - Movements of FE76 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

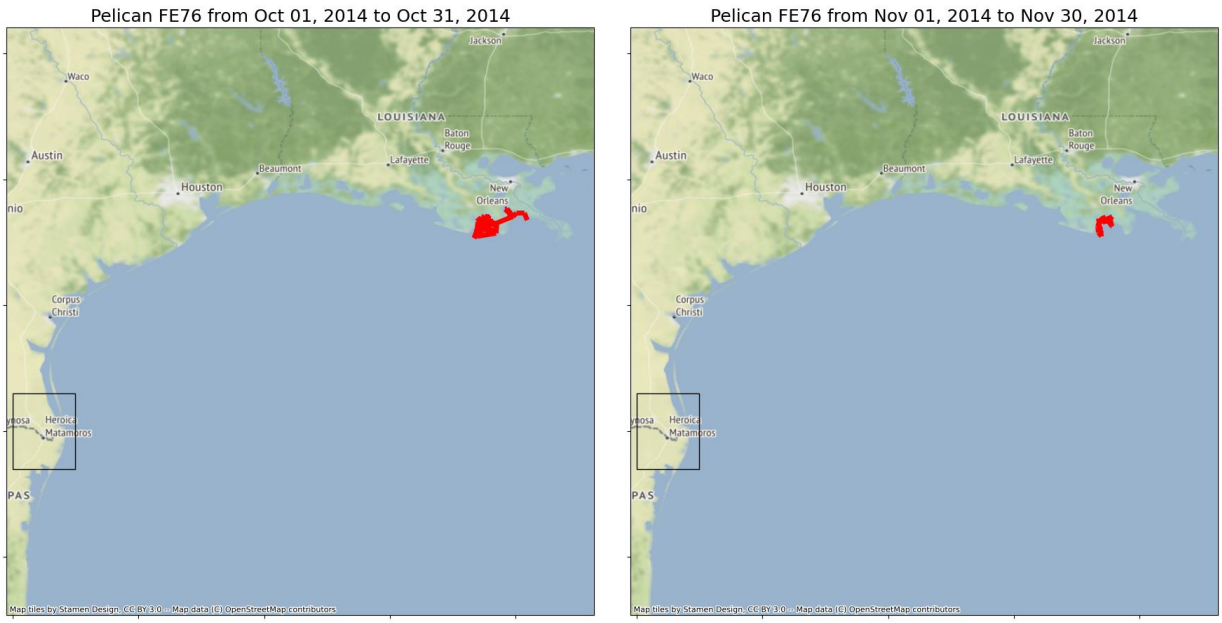

Figure 251 - Movements of FE76 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

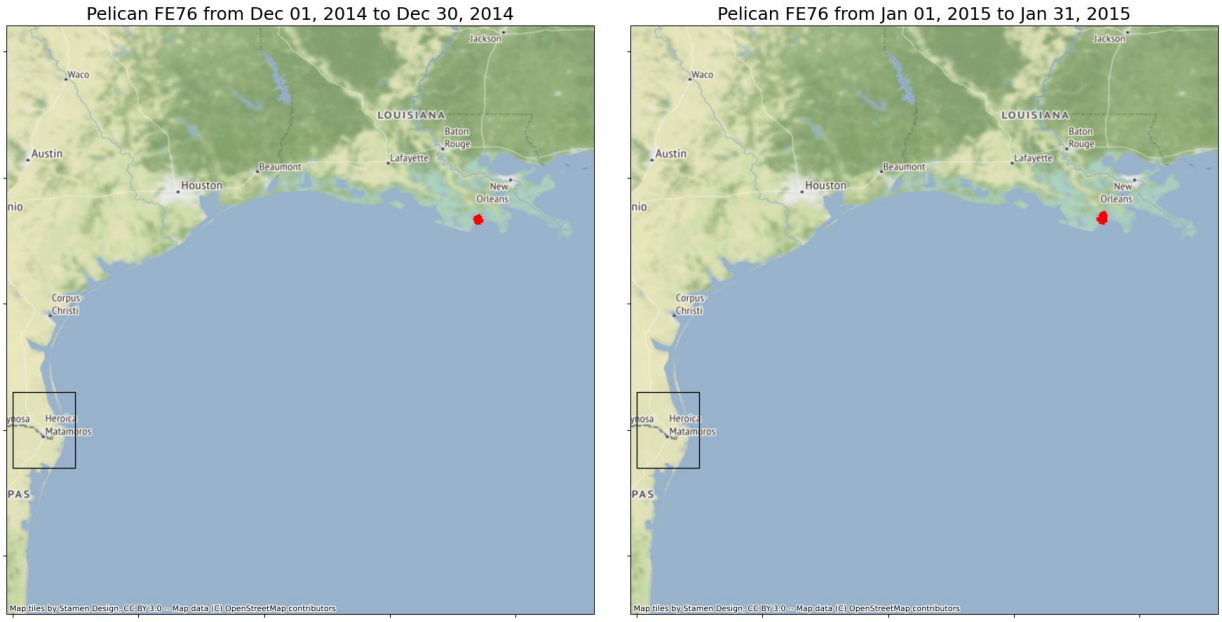

Figure 252 - Movements of FE76 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

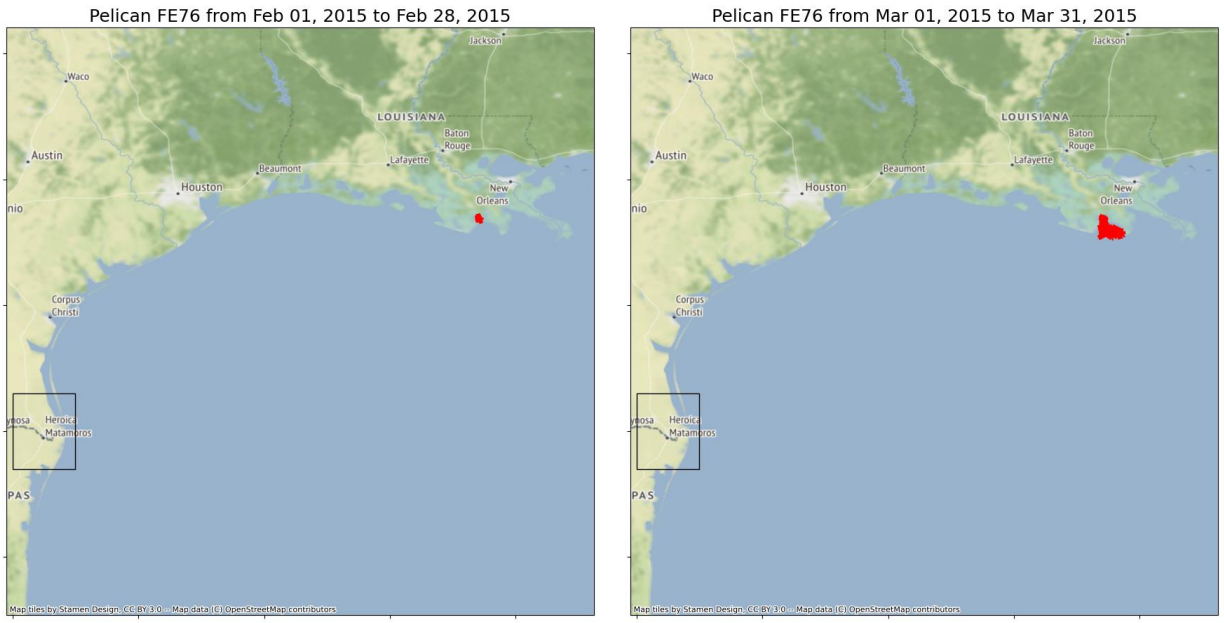

Figure 253 - Movements of FE76 between February 01, 2015 and March 31, 2015. Data from Lamb (2016)

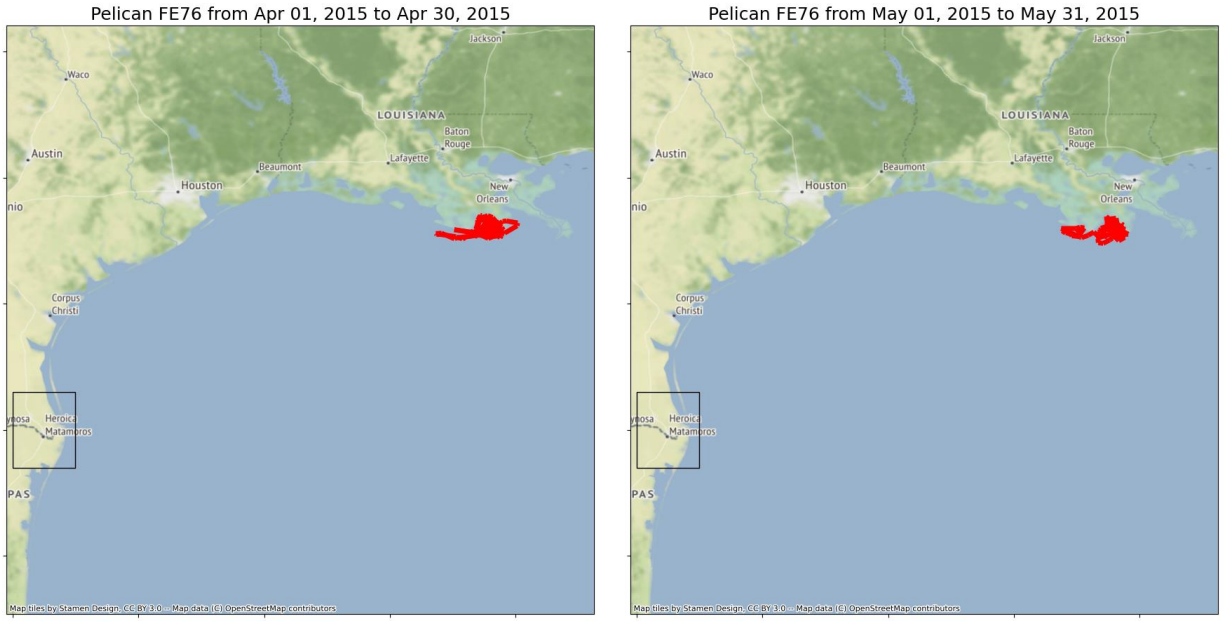

Figure 254 - Movements of FE76 between April 01, 2015 and May 31, 2015. Data from Lamb (2016)

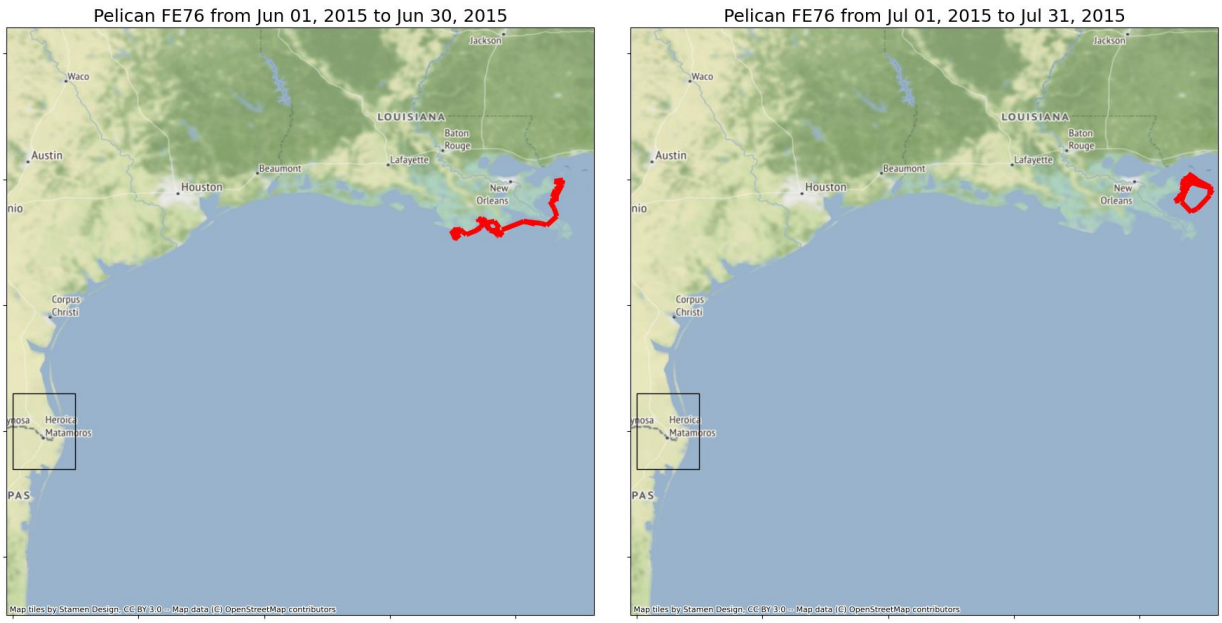

Figure 255 - Movements of FE76 between June 01, 2015 and July 31, 2015. Data from Lamb (2016)

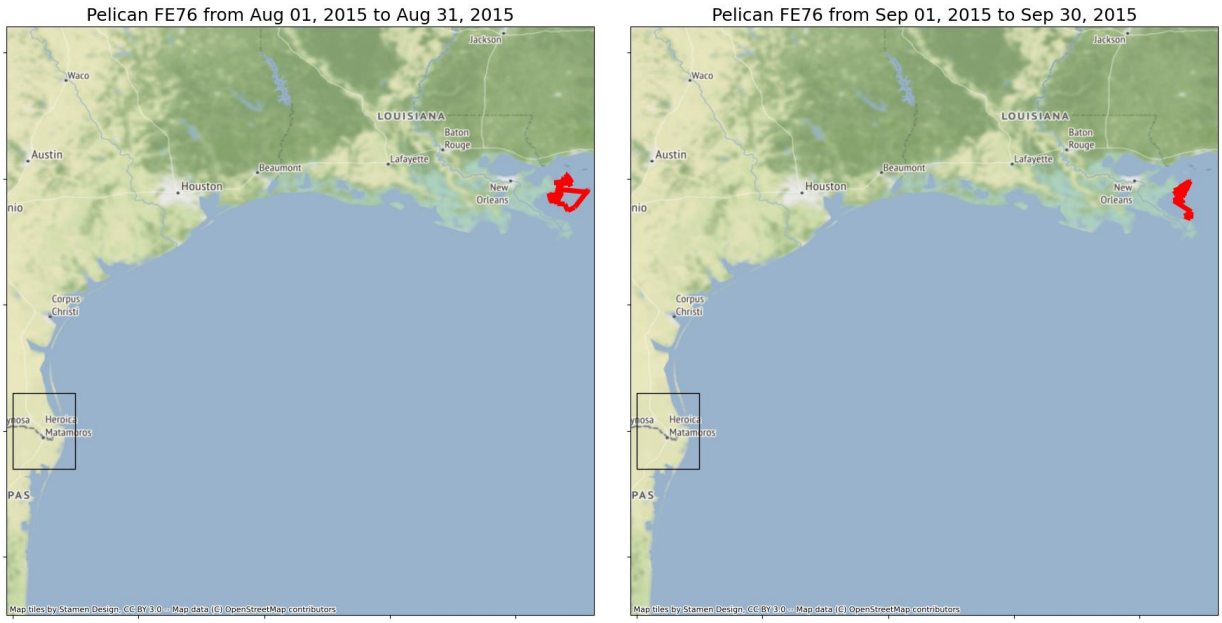

Figure 256 - Movements of FE76 between August 01, 2015 and September 30, 2015. Data from Lamb (2016)

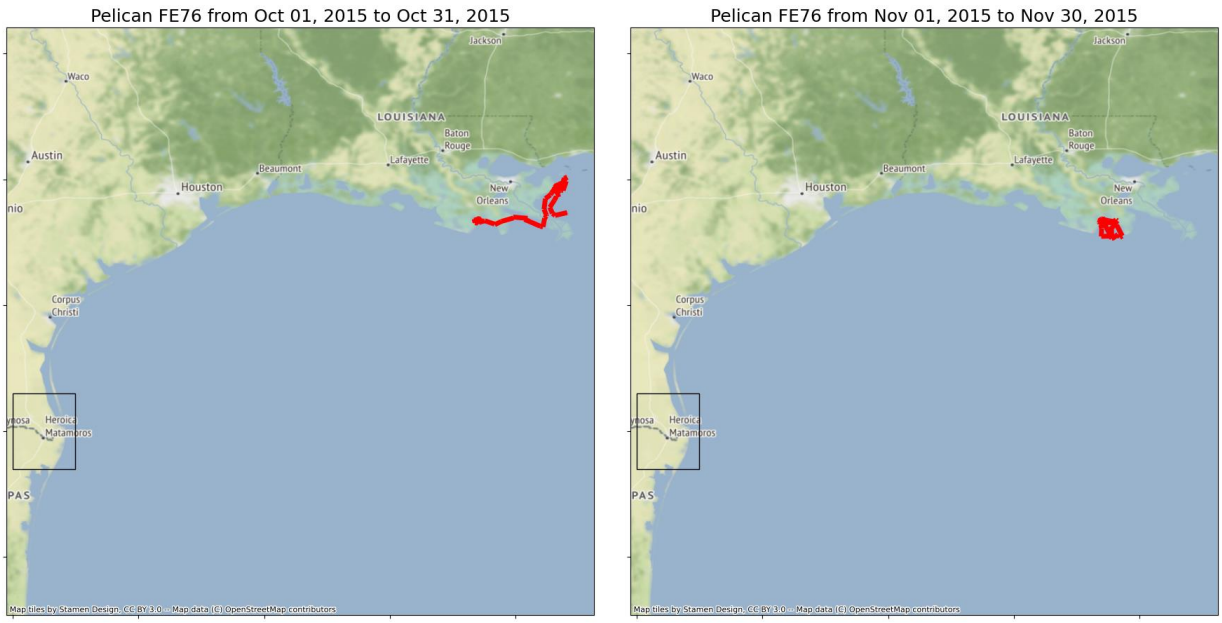

Figure 257 - Movements of FE76 between October 01, 2015 and November 30, 2015. Data from Lamb (2016)

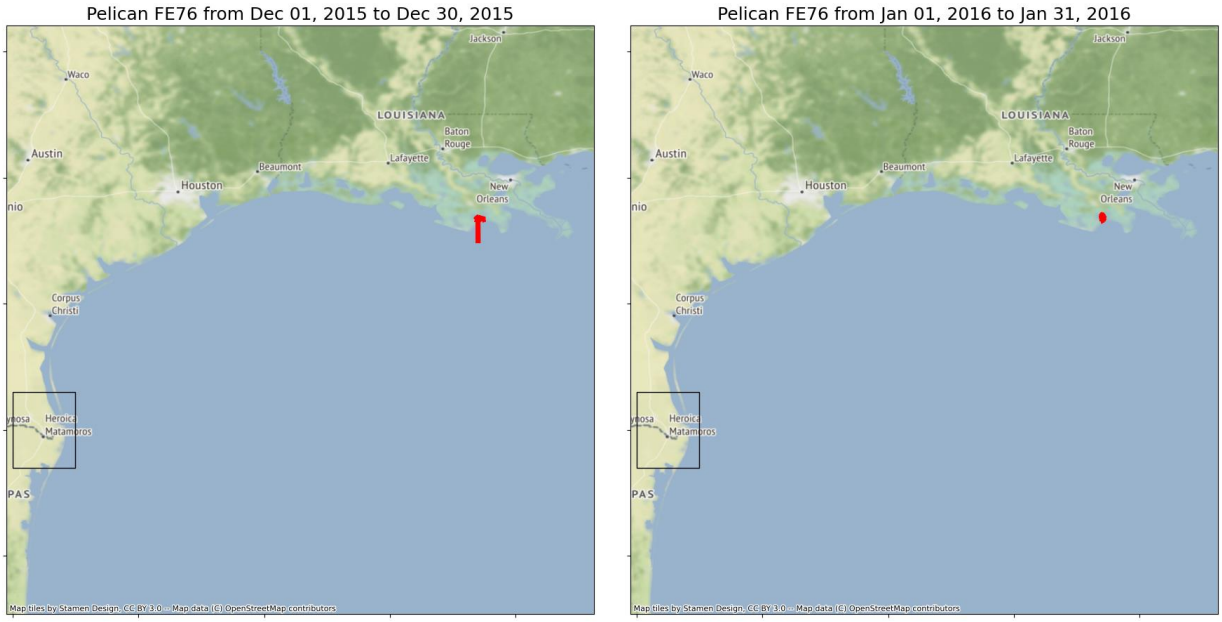

Figure 258 - Movements of FE76 between December 01, 2015 and January 31, 2016. Data from Lamb (2016)

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Pelican FE77 – Active from April 2014 to November 2015

Capture Date: April 26, 2014
Capture Location: Felicity (LA)
Sex: F
Status: incubating
Days Active: 559

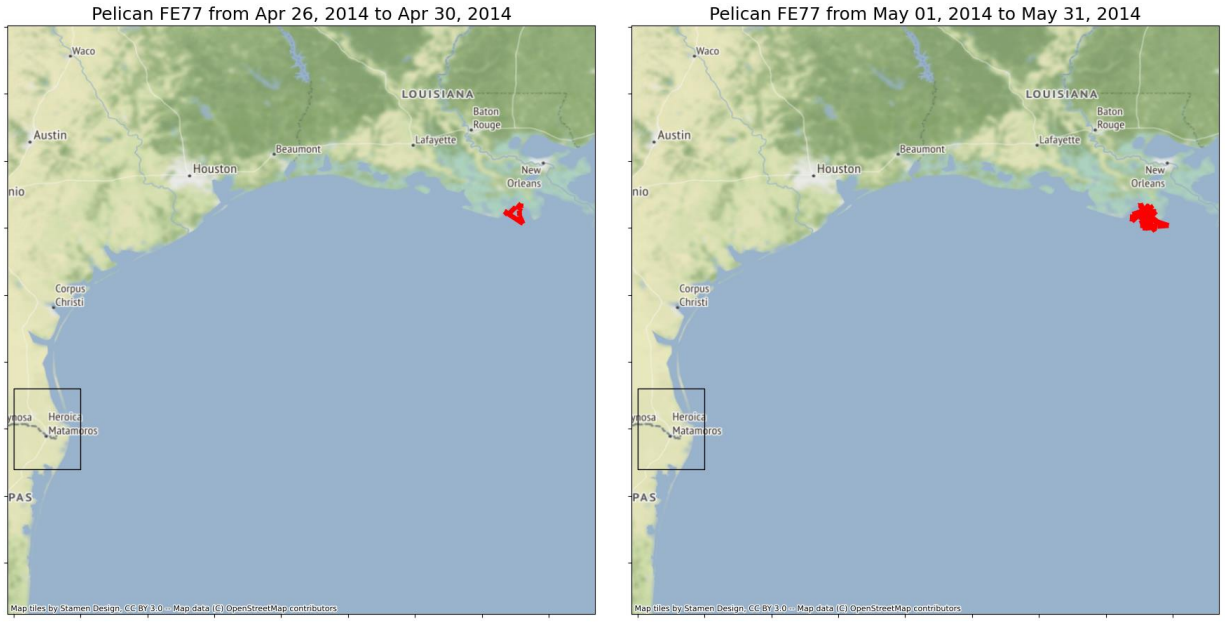

Figure 259 - Movements of FE77 between April 26, 2014 and May 31, 2014. Data from Lamb (2016)

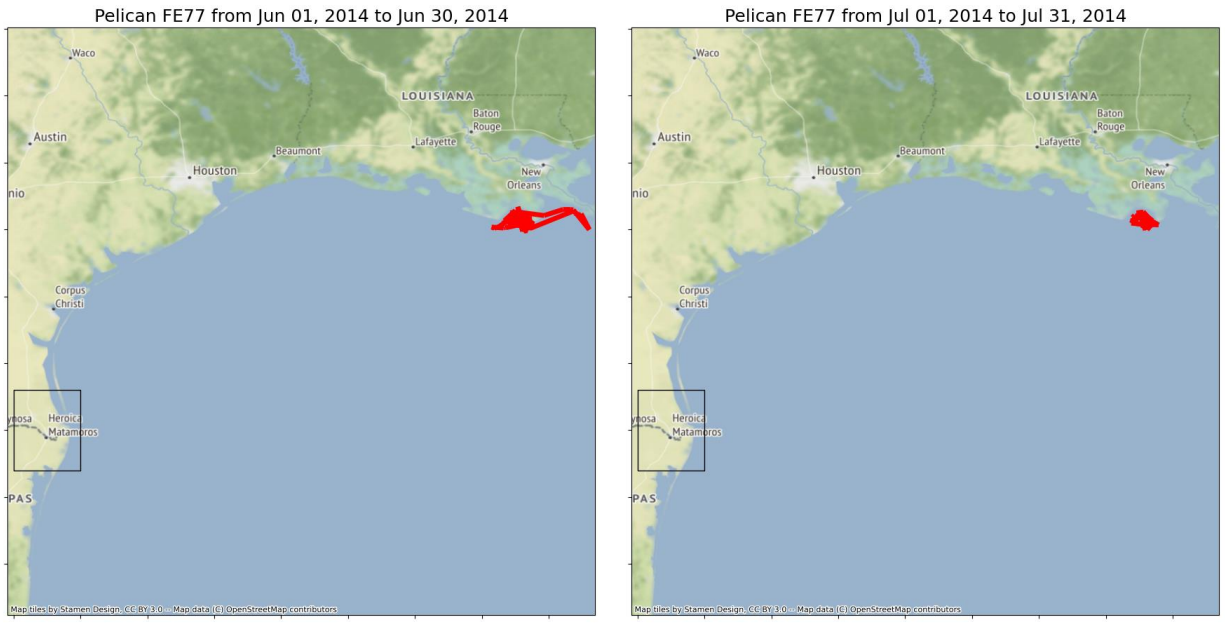

Figure 260 - Movements of FE77 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

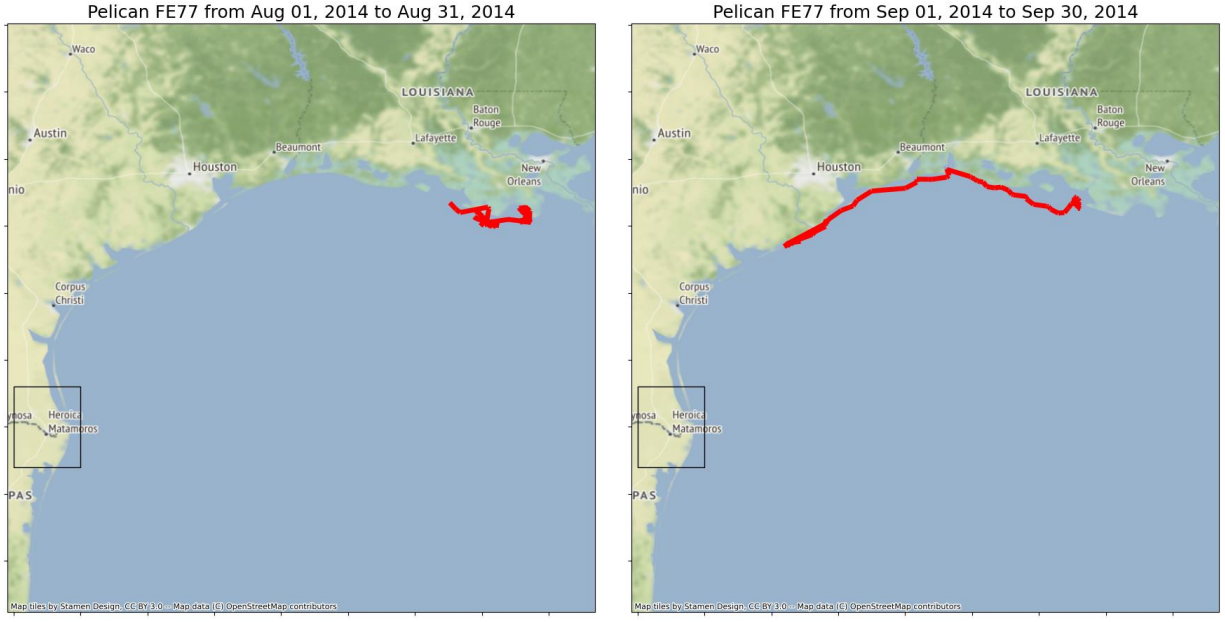

Figure 261 - Movements of FE77 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

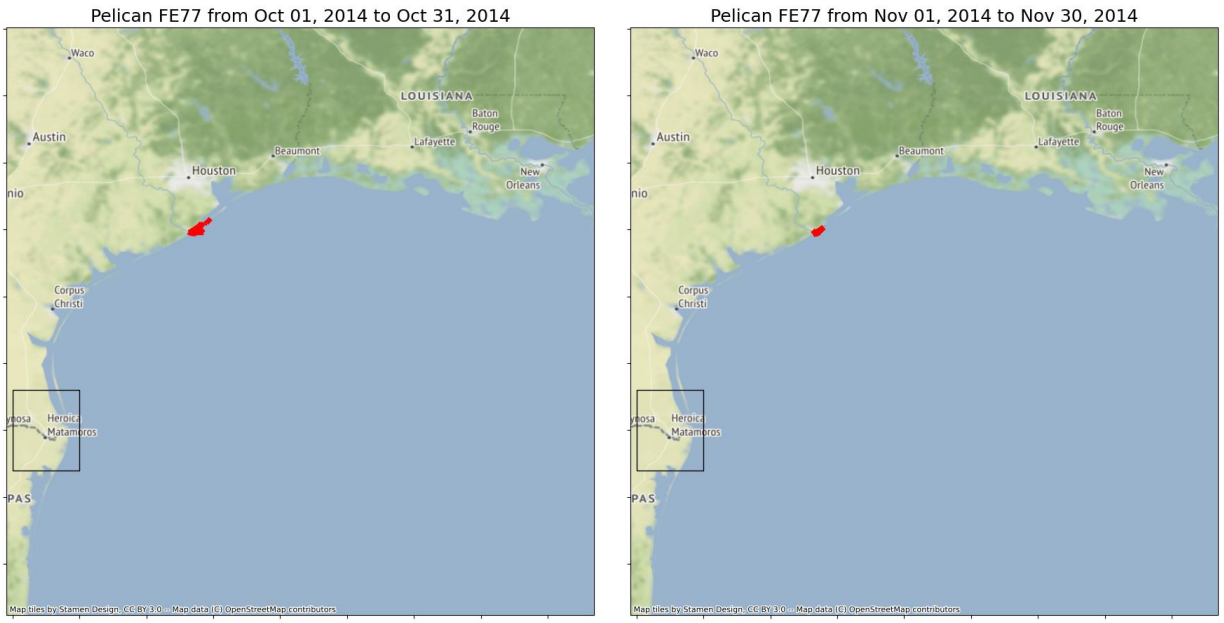

Figure 262 - Movements of FE77 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

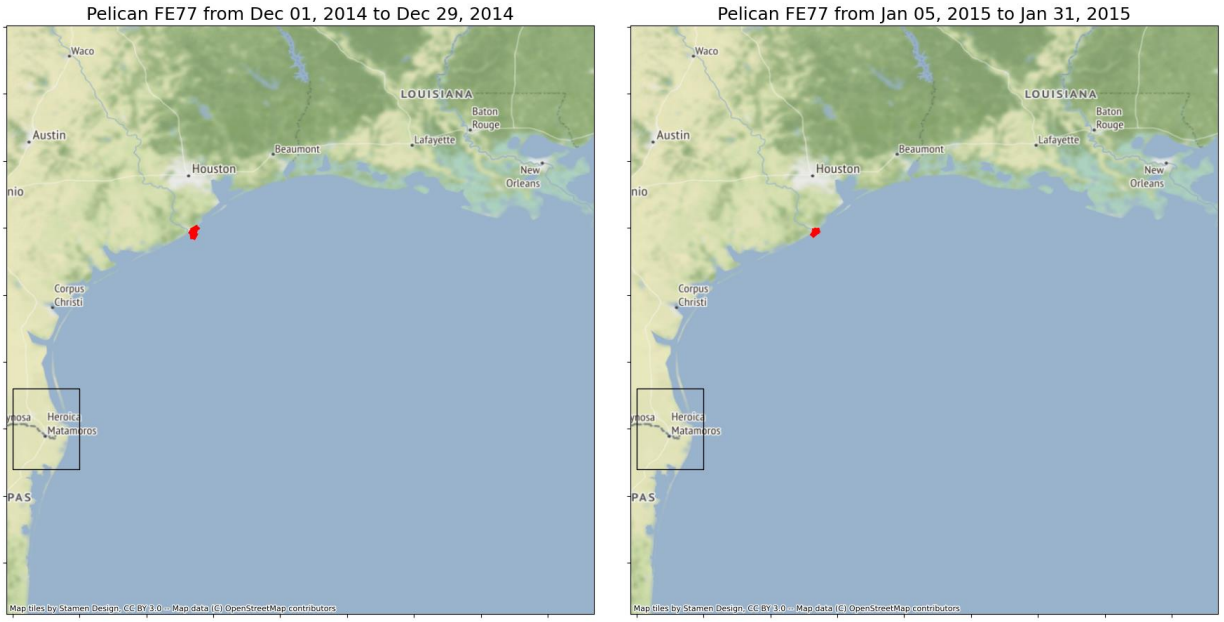

Figure 263 - Movements of FE77 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

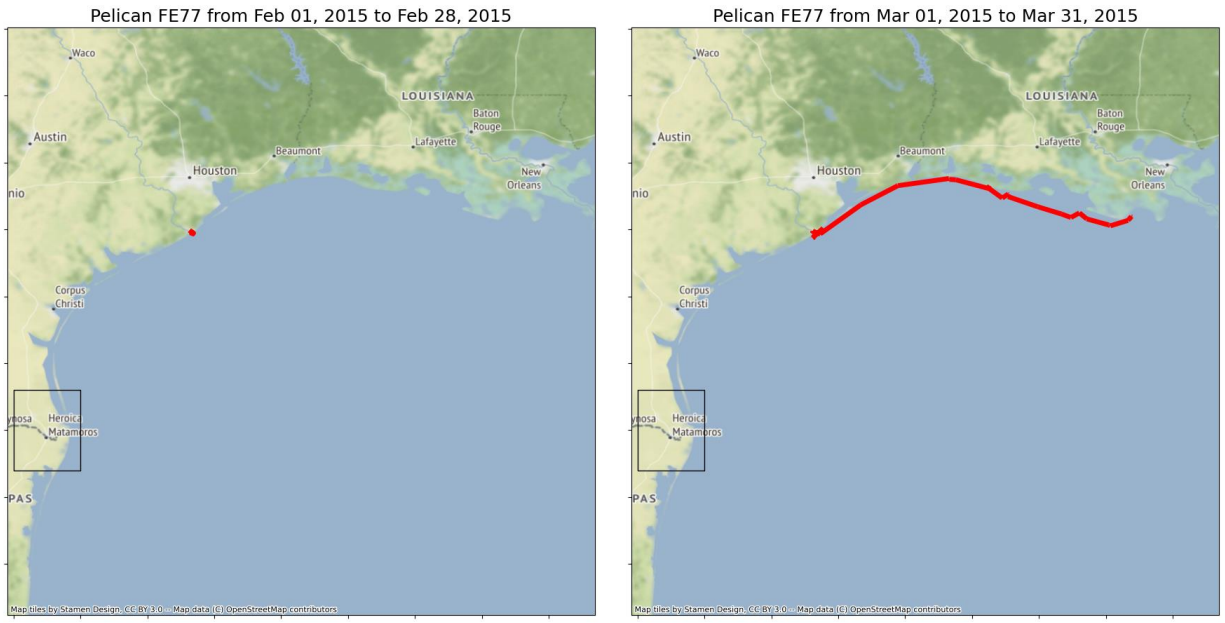

Figure 264 - Movements of FE77 between February 01, 2015 and March 31, 2015. Data from Lamb (2016)

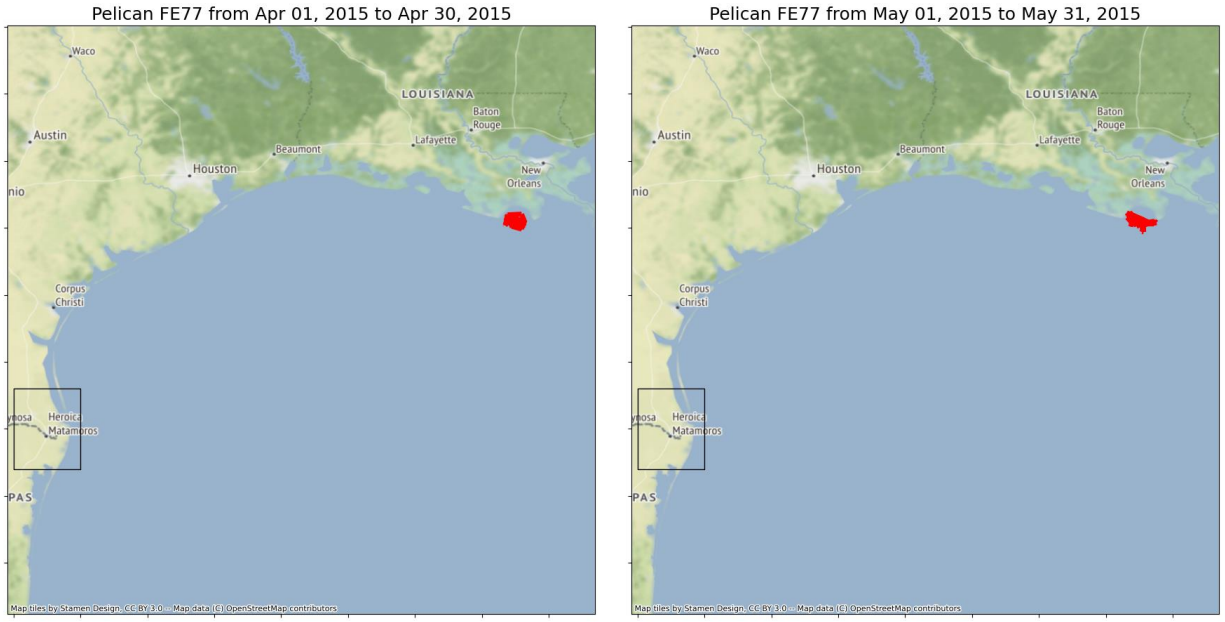

Figure 265 - Movements of FE77 between April 01, 2015 and May 31, 2015. Data from Lamb (2016)

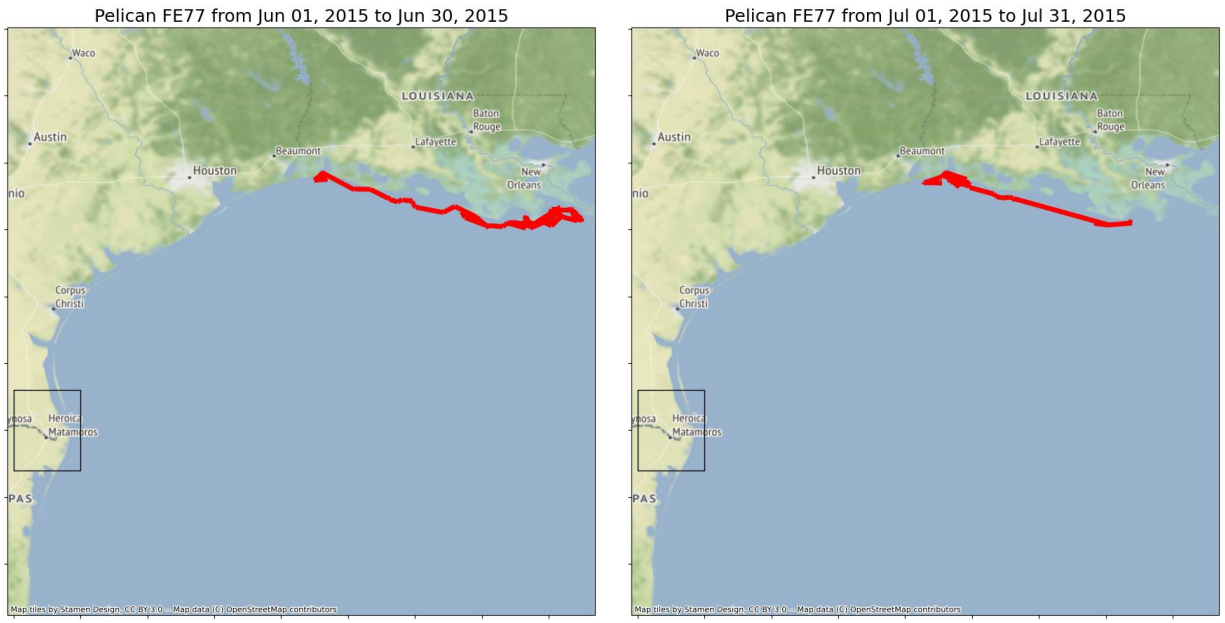

Figure 266 - Movements of FE77 between June 01, 2015 and July 31, 2015. Data from Lamb (2016)

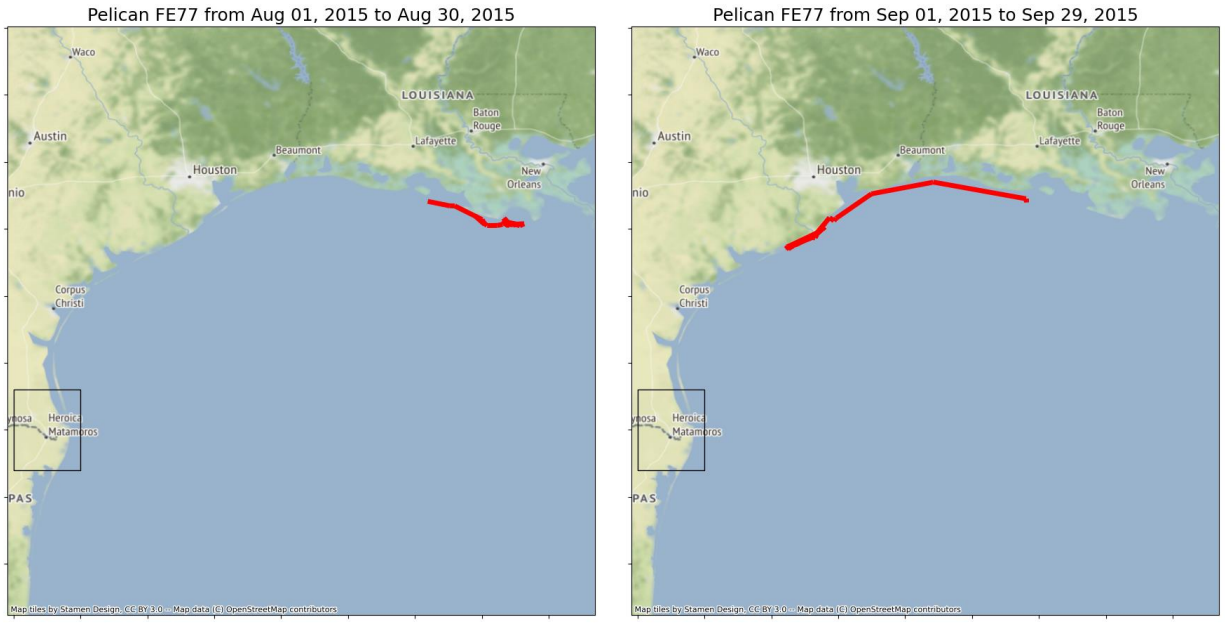

Figure 267 - Movements of FE77 between August 01, 2015 and September 29, 2015. Data from Lamb (2016)

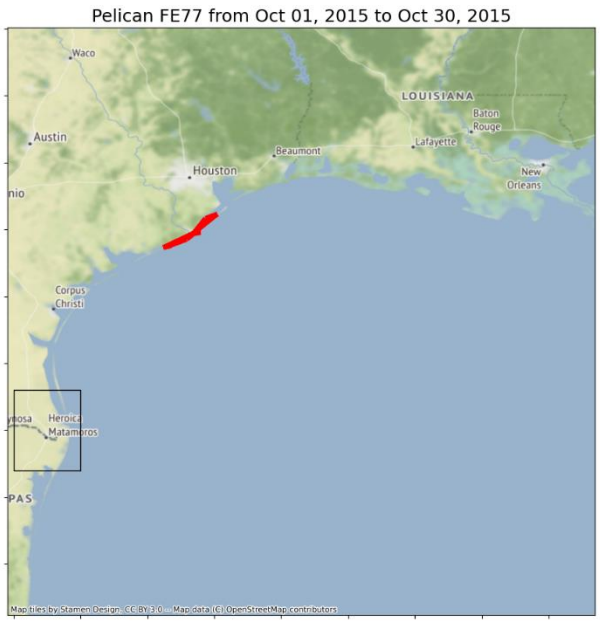

Figure 268 - Movements of FE77 between October 01, 2015 and October 30, 2015. Data from Lamb (2016)

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Pelican RA01 – Active from April 2013 to November 2013

Capture Date: April 24, 2013
Capture Location: Raccoon (LA)
Sex: M
Status: incubating
Days Active: 195

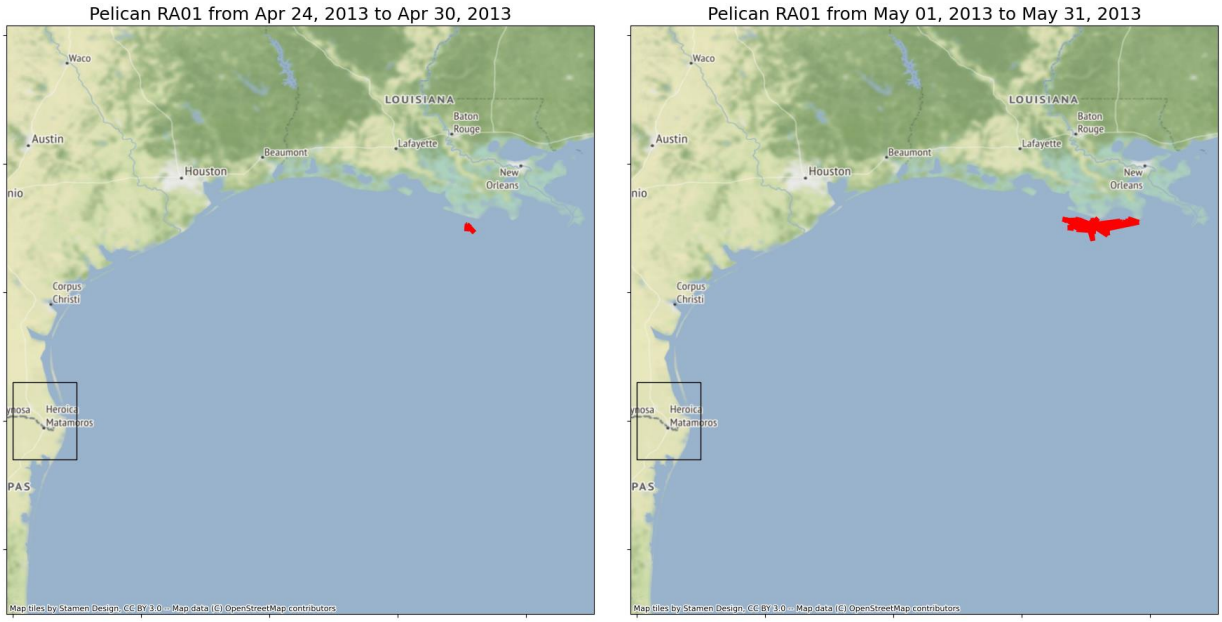

Figure 269 - Movements of RA01 between April 24, 2013 and May 31, 2013. Data from Lamb (2016)

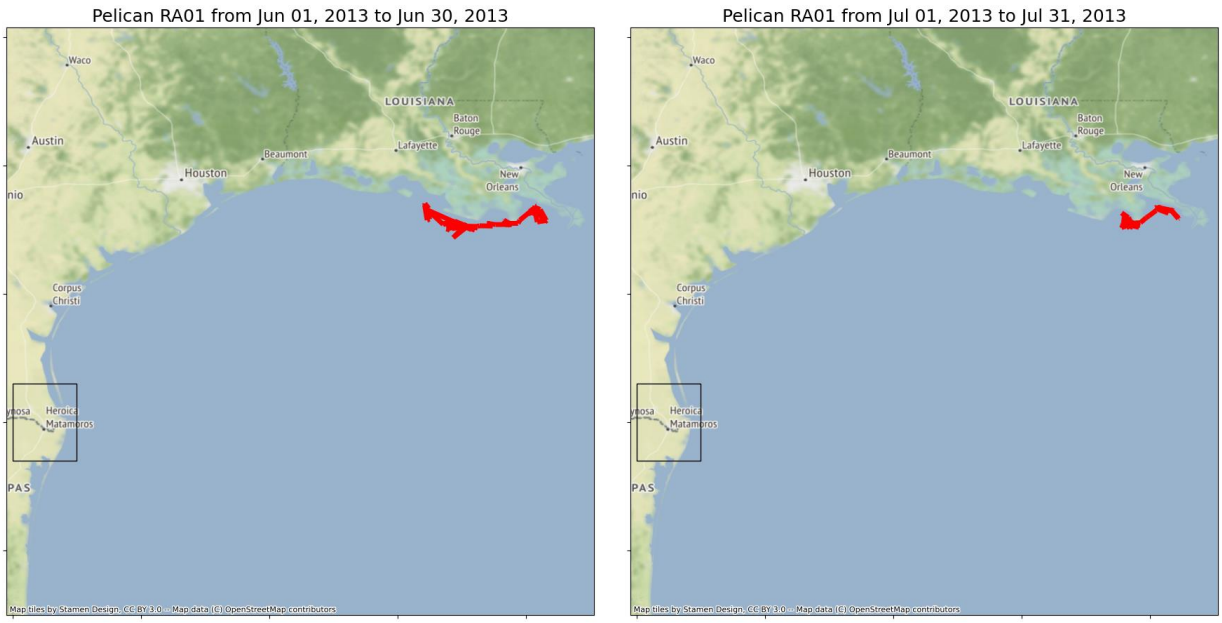

Figure 270 - Movements of RA01 between June 01, 2013 and July 31, 2013. Data from Lamb (2016)

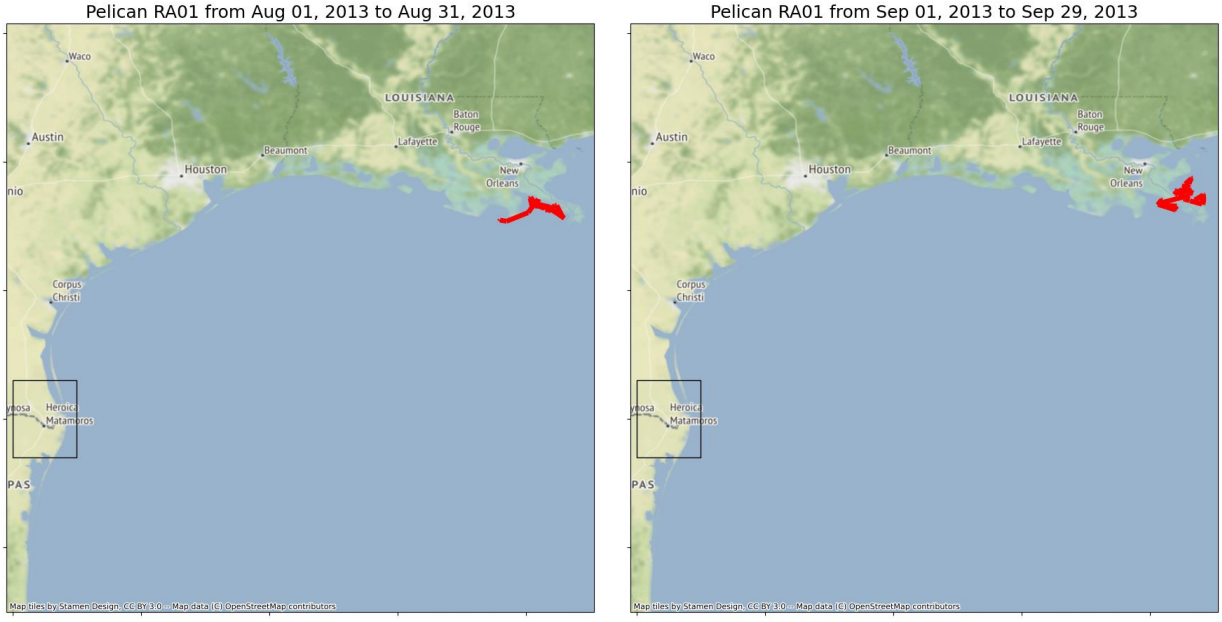

Figure 271 - Movements of RA01 between August 01, 2013 and September 29, 2013. Data from Lamb (2016)

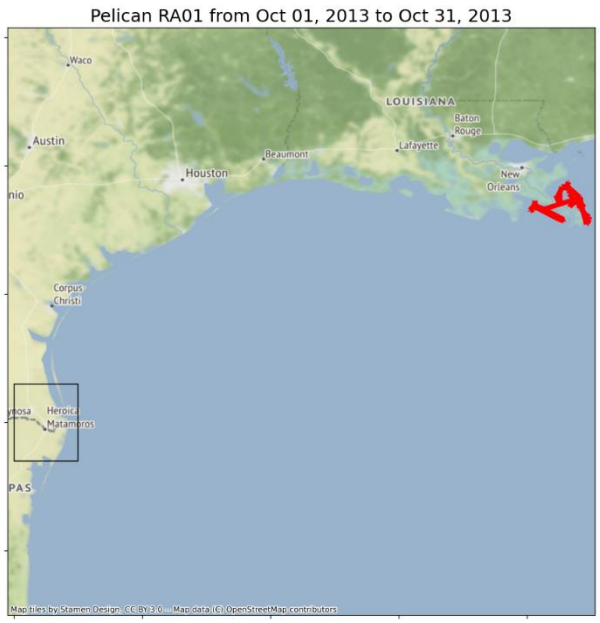

Figure 272 - Movements of RA01 between October 01, 2013 and October 31, 2013. Data from Lamb (2016)

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Pelican RA02 – Active from April 2013 to November 2013

Capture Date: April 24, 2013
Capture Location: Raccoon (LA)
Sex: M
Status: incubating
Days Active: 211

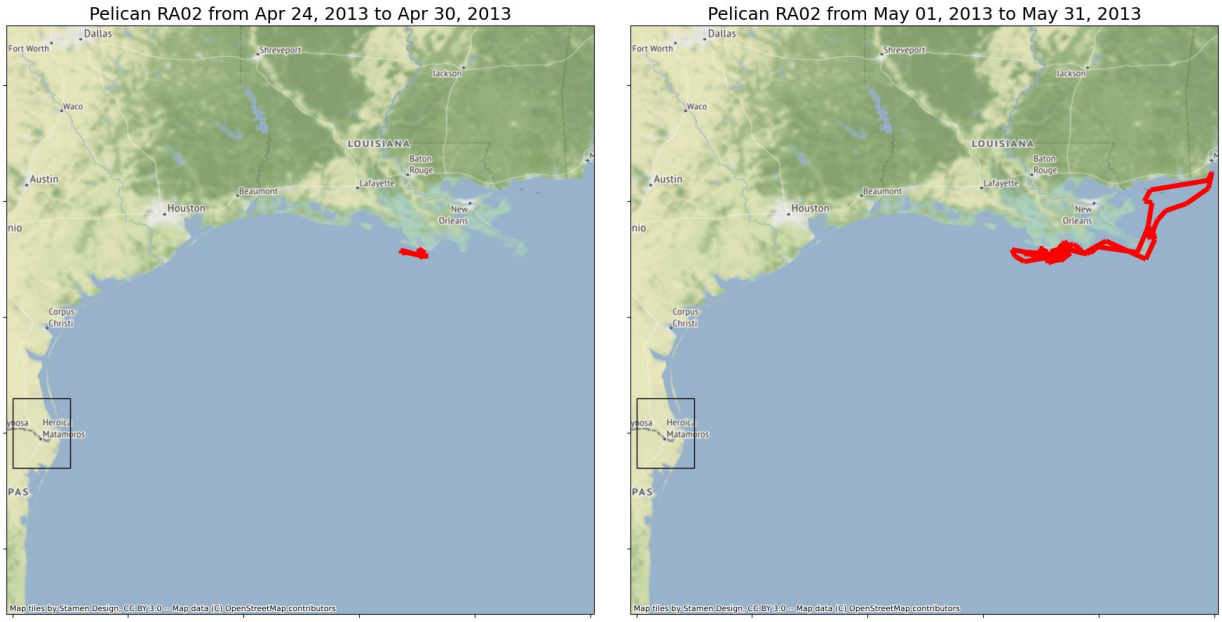

Figure 273 - Movements of RA02 between April 24, 2013 and May 31, 2013. Data from Lamb (2016)

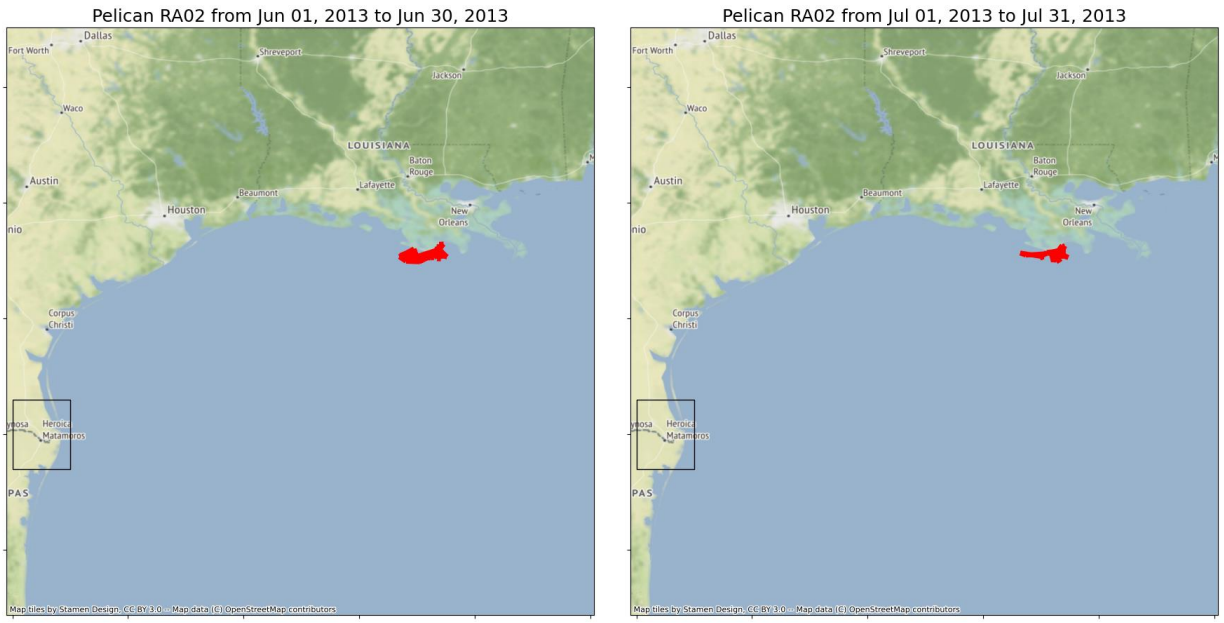

Figure 274 - Movements of RA02 between June 01, 2013 and July 31, 2013. Data from Lamb (2016)

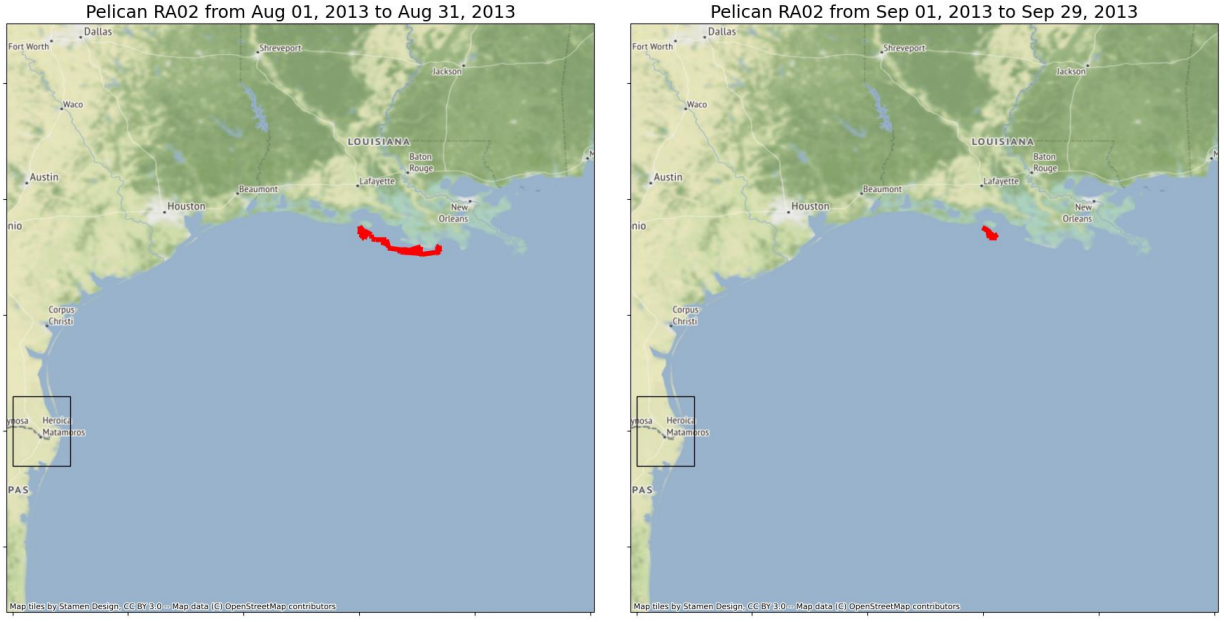

Figure 275 - Movements of RA02 between August 01, 2013 and September 29, 2013. Data from Lamb (2016)

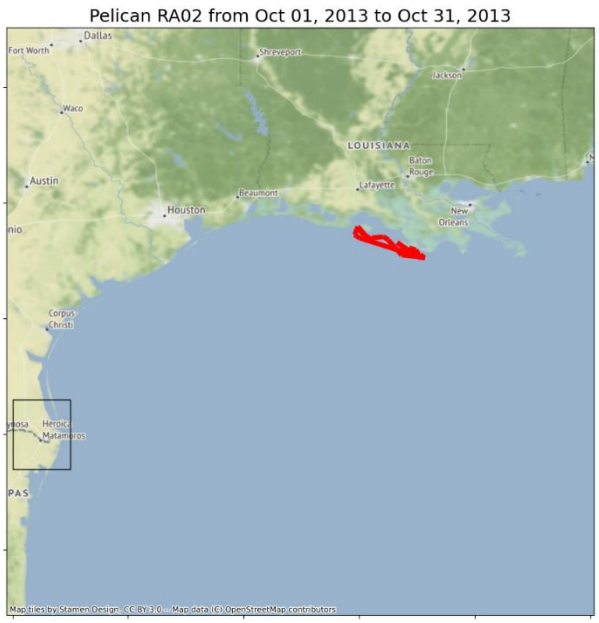

Figure 276 - Movements of RA02 between October 01, 2013 and October 31, 2013. Data from Lamb (2016)

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Pelican RA04 – Active from April 2013 to November 2013

Capture Date: April 26, 2013
Capture Location: Raccoon (LA)
Sex: F
Status: incubating
Days Active: 210

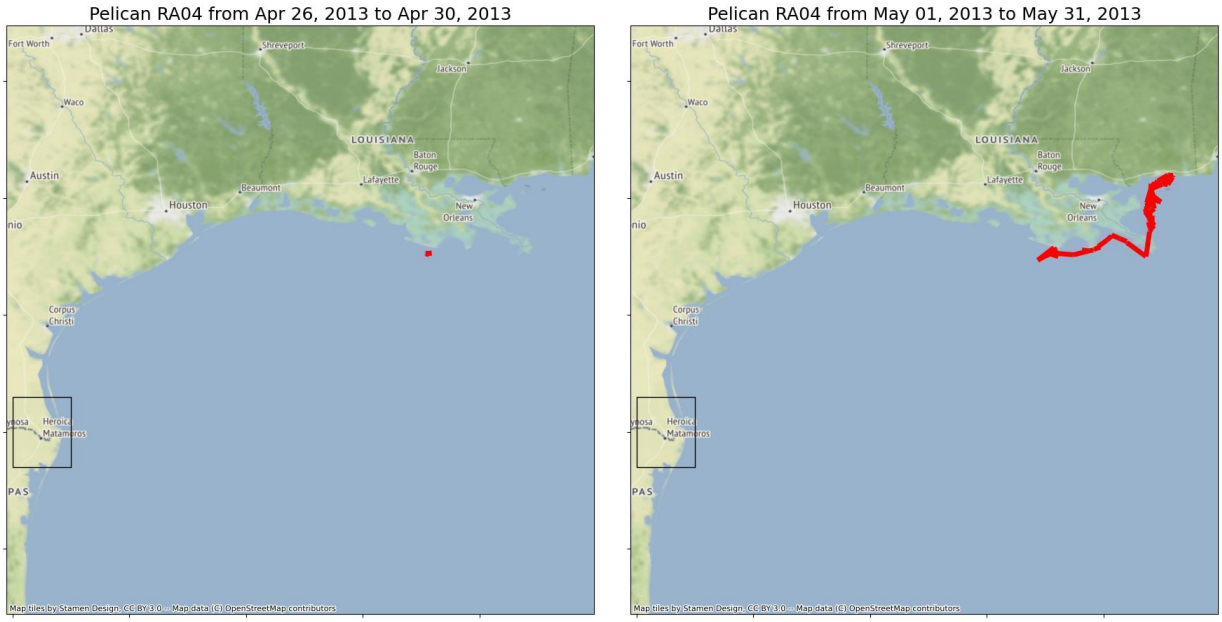

Figure 277 - Movements of RA04 between April 26, 2013 and May 31, 2013. Data from Lamb (2016)

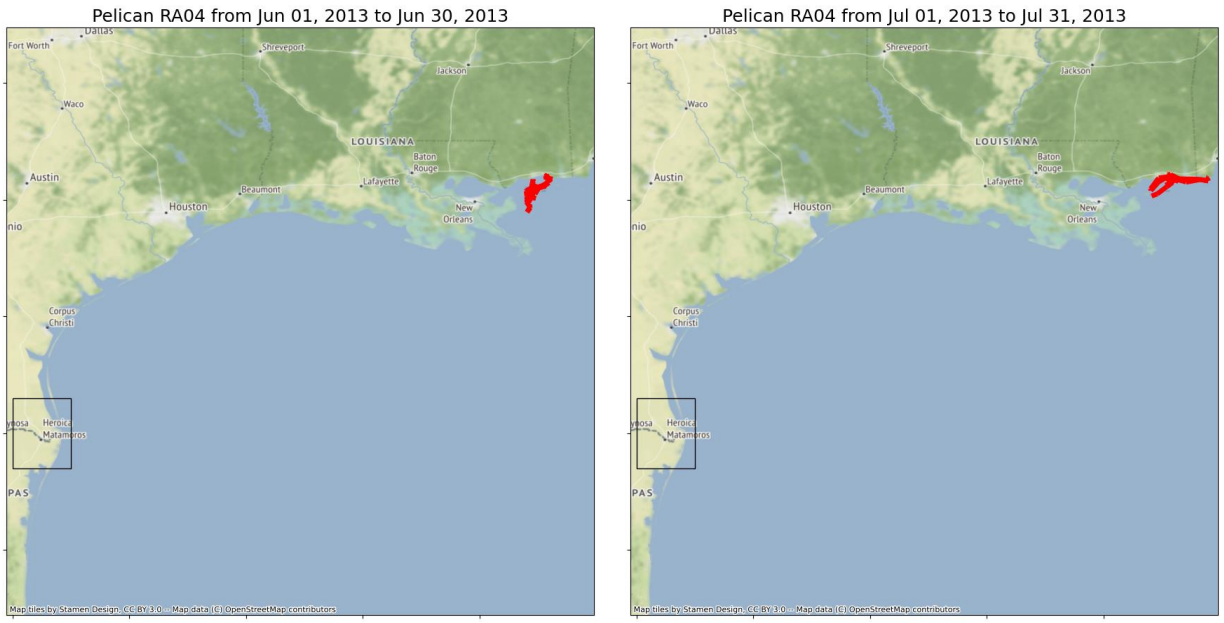

Figure 278 - Movements of RA04 between June 01, 2013 and July 31, 2013. Data from Lamb (2016)

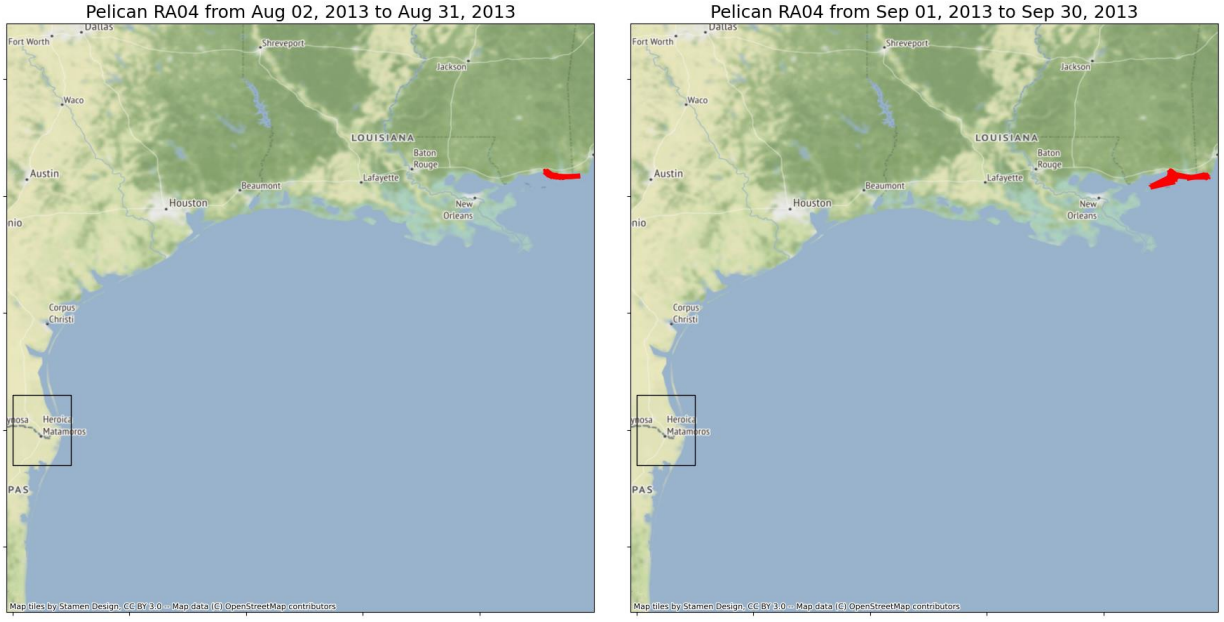

Figure 279 - Movements of RA04 between August 02, 2013 and September 30, 2013. Data from Lamb (2016)

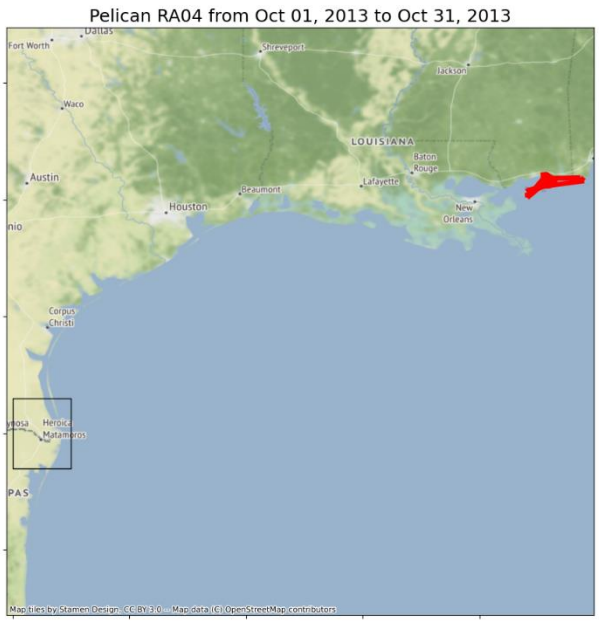

Figure 280 - Movements of RA04 between October 01, 2013 and October 31, 2013. Data from Lamb (2016)

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Pelican RA50 – Active from June 2013 to January 2014

Capture Date: June 19, 2013
Capture Location: Raccoon (LA)
Sex: F
Status: incubating
Days Active: 221

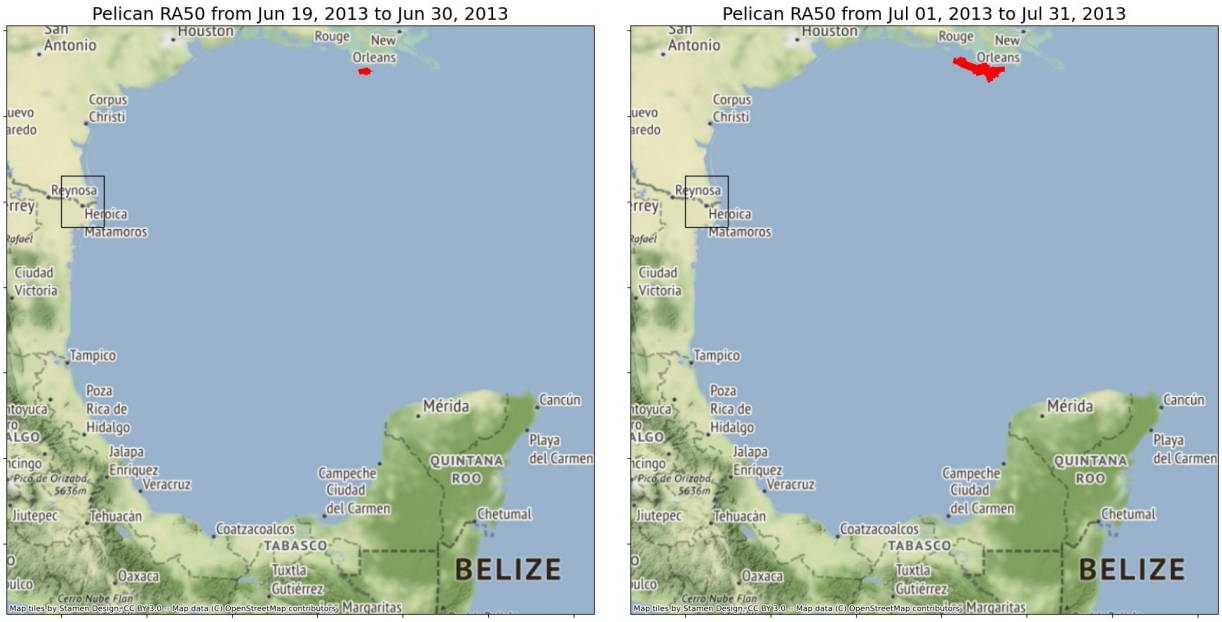

Figure 281 - Movements of RA50 between June 19, 2013 and July 31, 2013. Data from Lamb (2016)

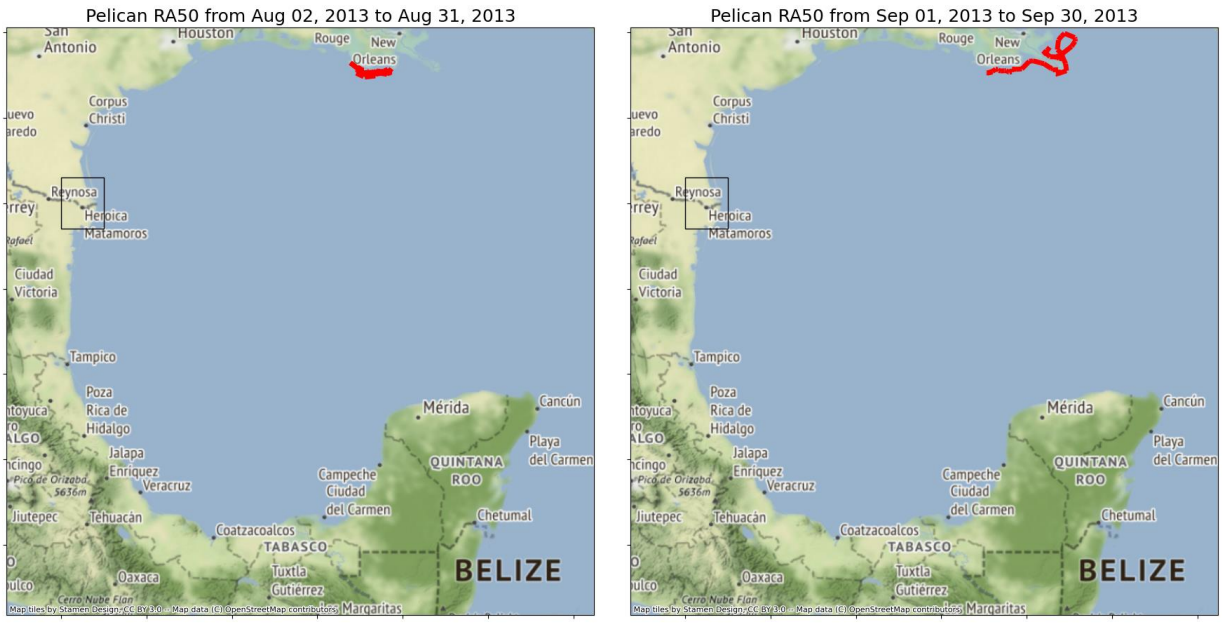

Figure 282 - Movements of RA50 between August 02, 2013 and September 30, 2013. Data from Lamb (2016)

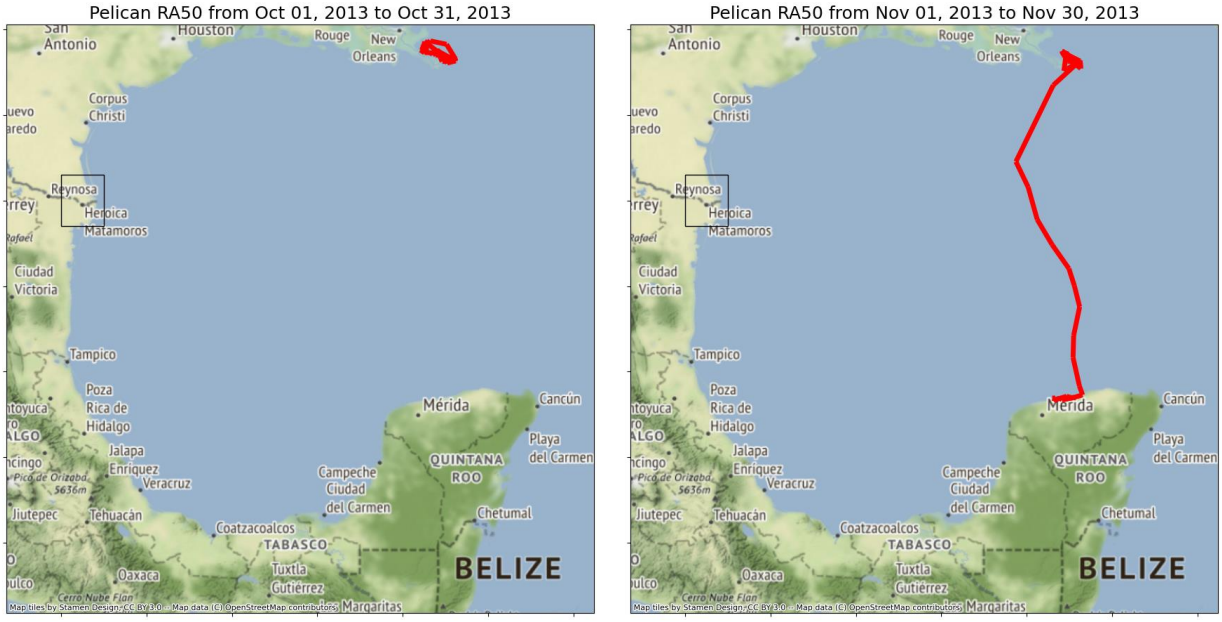

Figure 283 - Movements of RA50 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

Figure 284 - Movements of RA50 between December 01, 2013 and December 30, 2013. Data from Lamb (2016)

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Pelican RA51 – Active from June 2013 to March 2015

Capture Date: June 19, 2013
Capture Location: Raccoon (LA)
Sex: M
Status: rearing chick
Days Active: 622

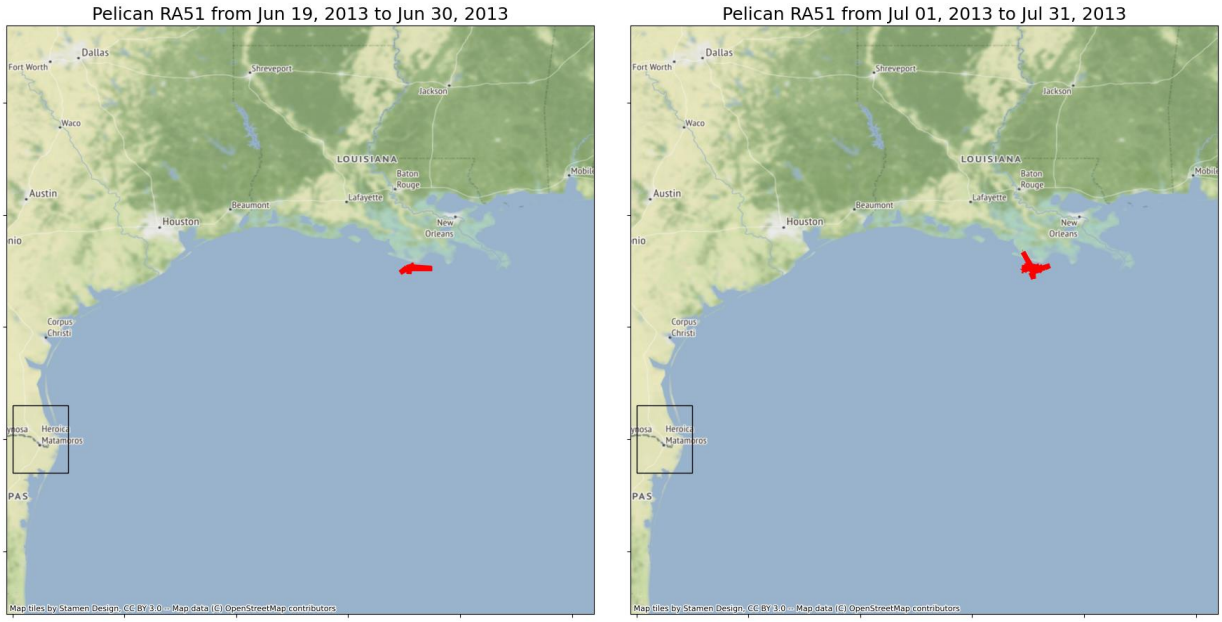

Figure 285 - Movements of RA51 between June 19, 2013 and July 31, 2013. Data from Lamb (2016)

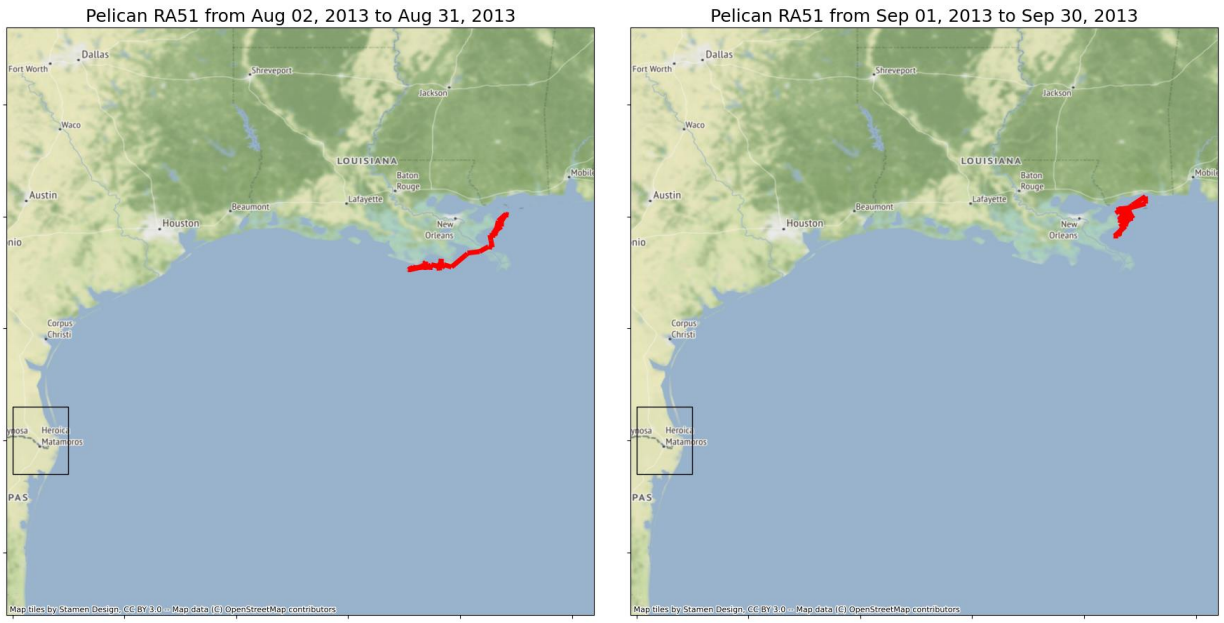

Figure 286 - Movements of RA51 between August 02, 2013 and September 30, 2013. Data from Lamb (2016)

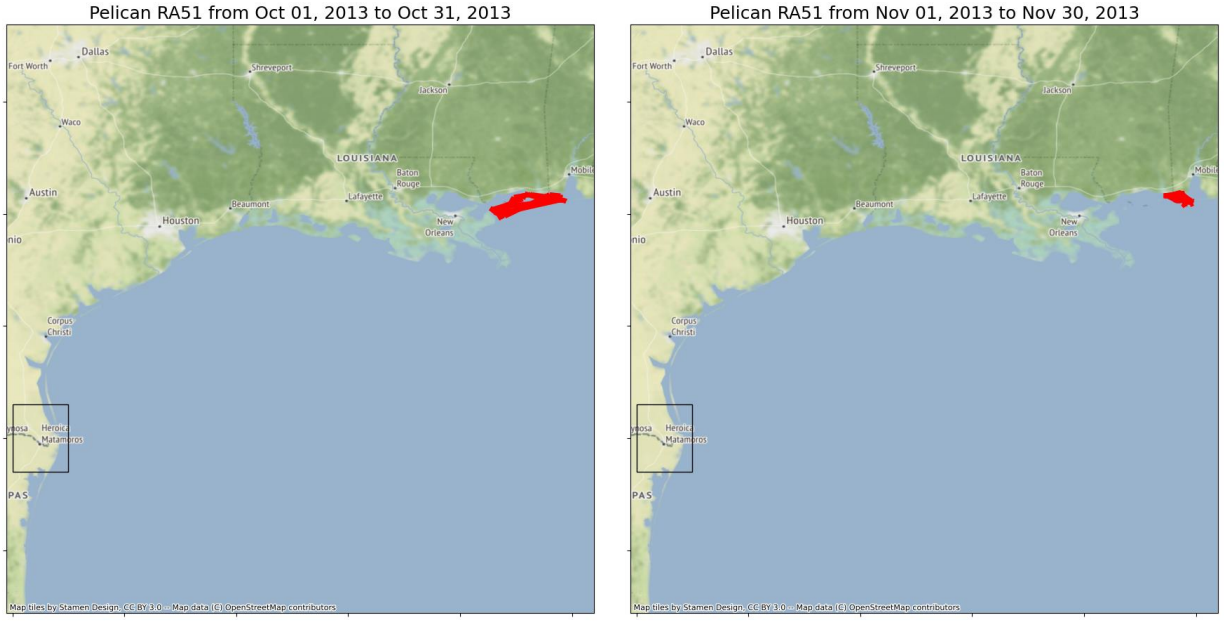

Figure 287 - Movements of RA51 between October 01, 2013 and November 30, 2013. Data from Lamb (2016)

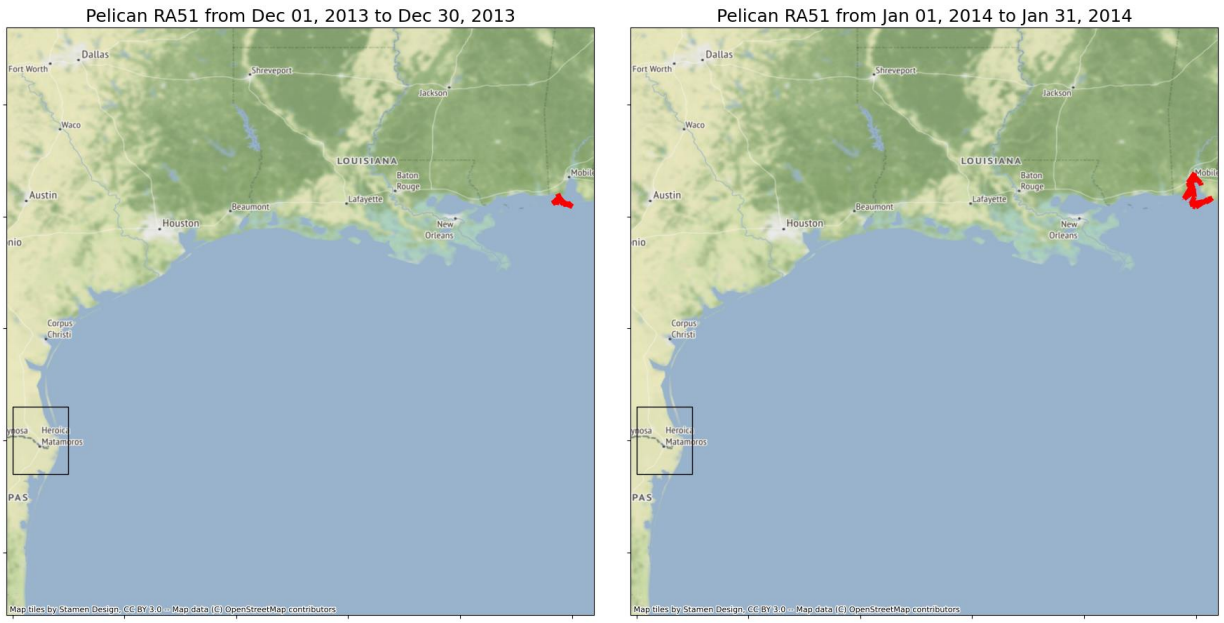

Figure 288 - Movements of RA51 between December 01, 2013 and January 31, 2014. Data from Lamb (2016)

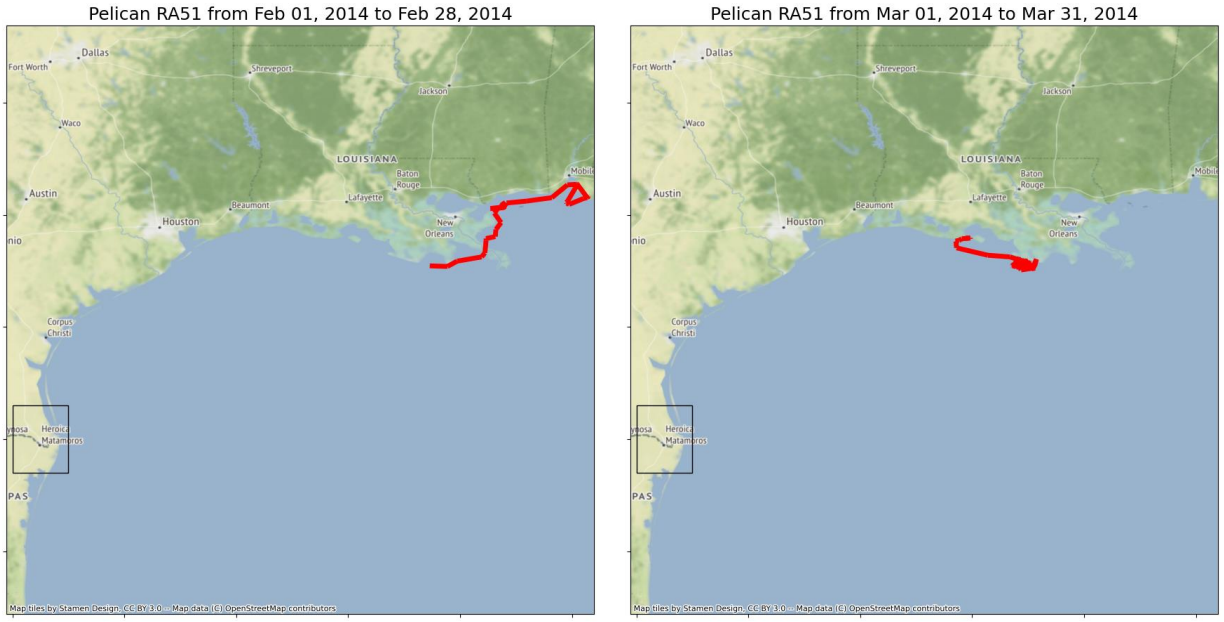

Figure 289 - Movements of RA51 between February 01, 2014 and March 31, 2014. Data from Lamb (2016)

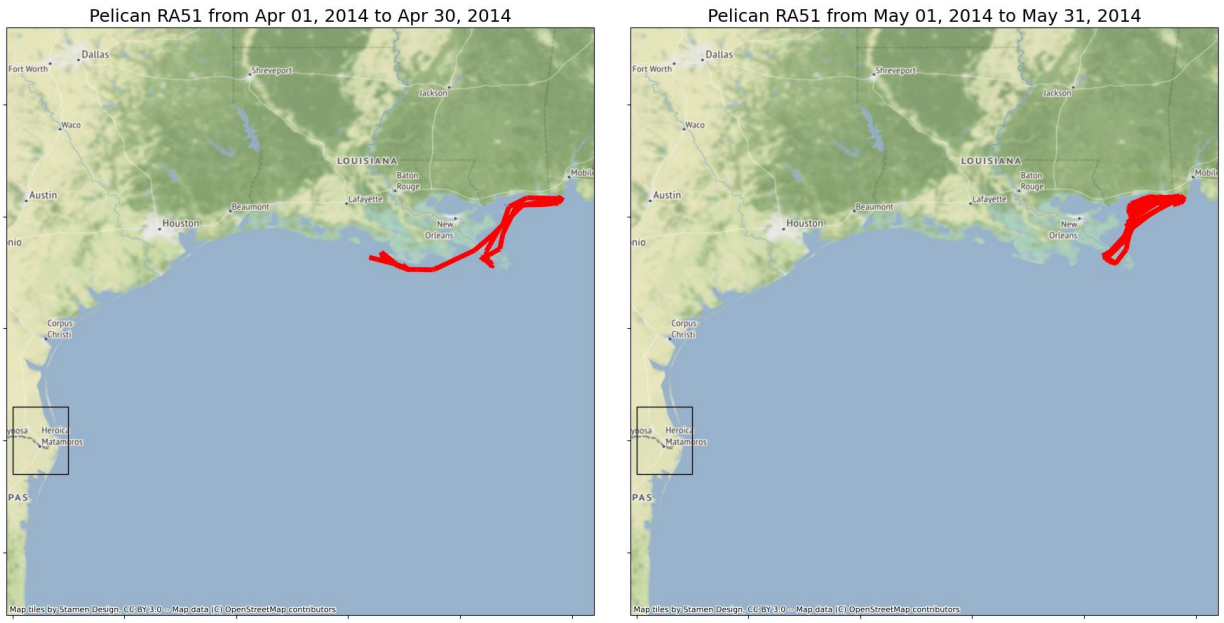

Figure 290 - Movements of RA51 between April 01, 2014 and May 31, 2014. Data from Lamb (2016)

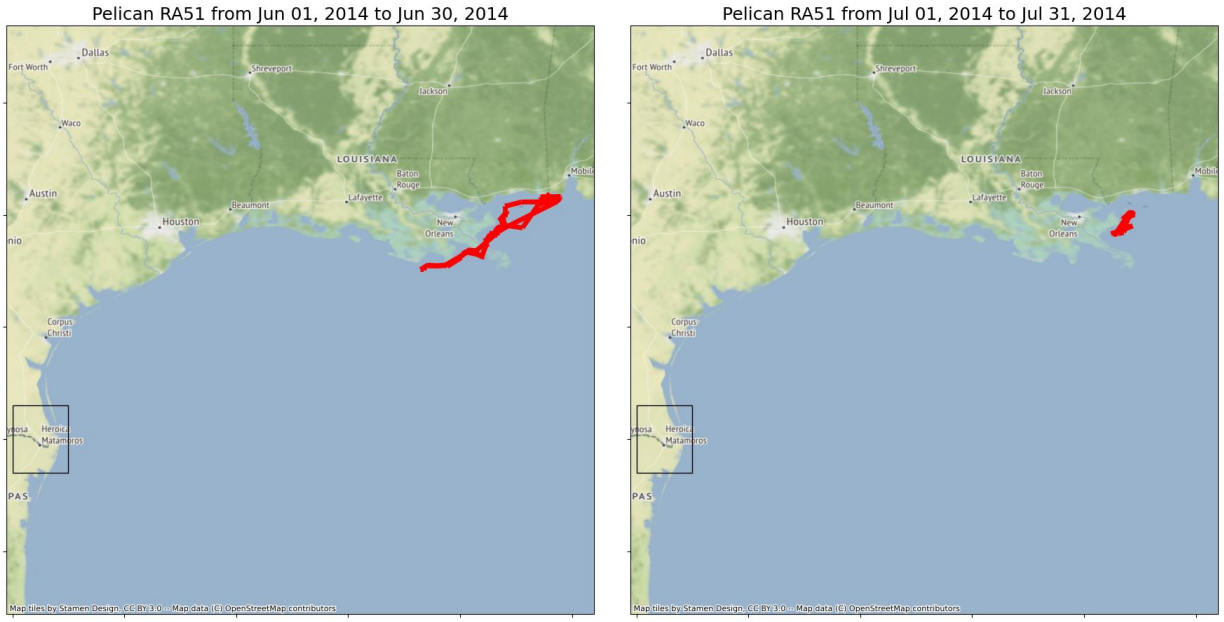

Figure 291 - Movements of RA51 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

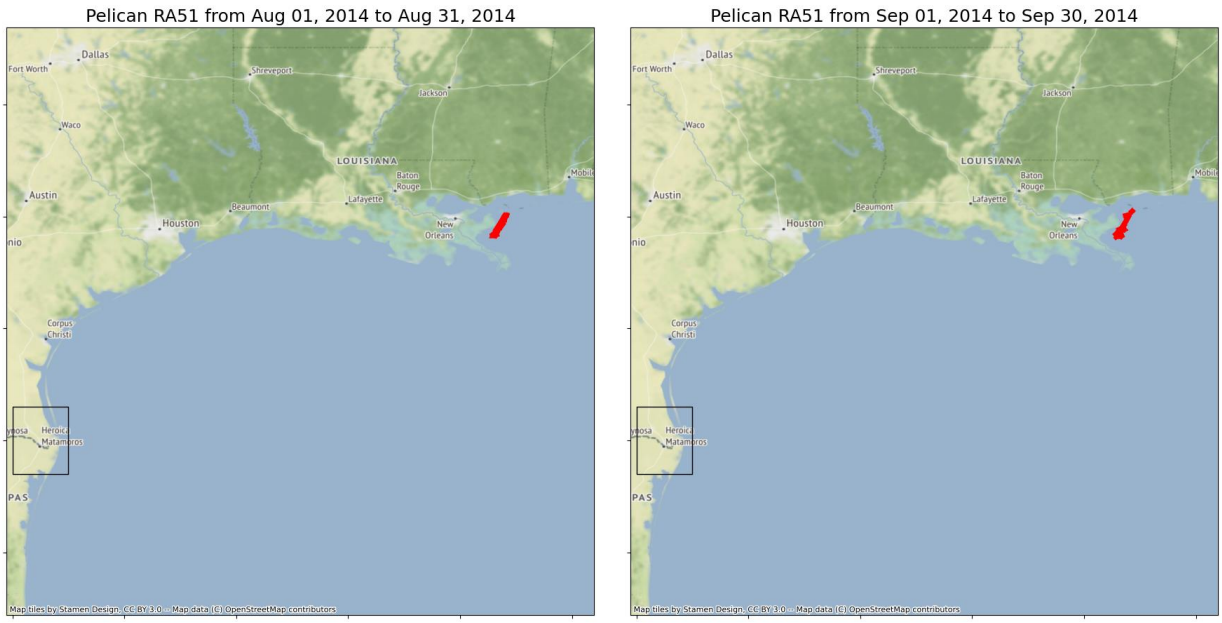

Figure 292 - Movements of RA51 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

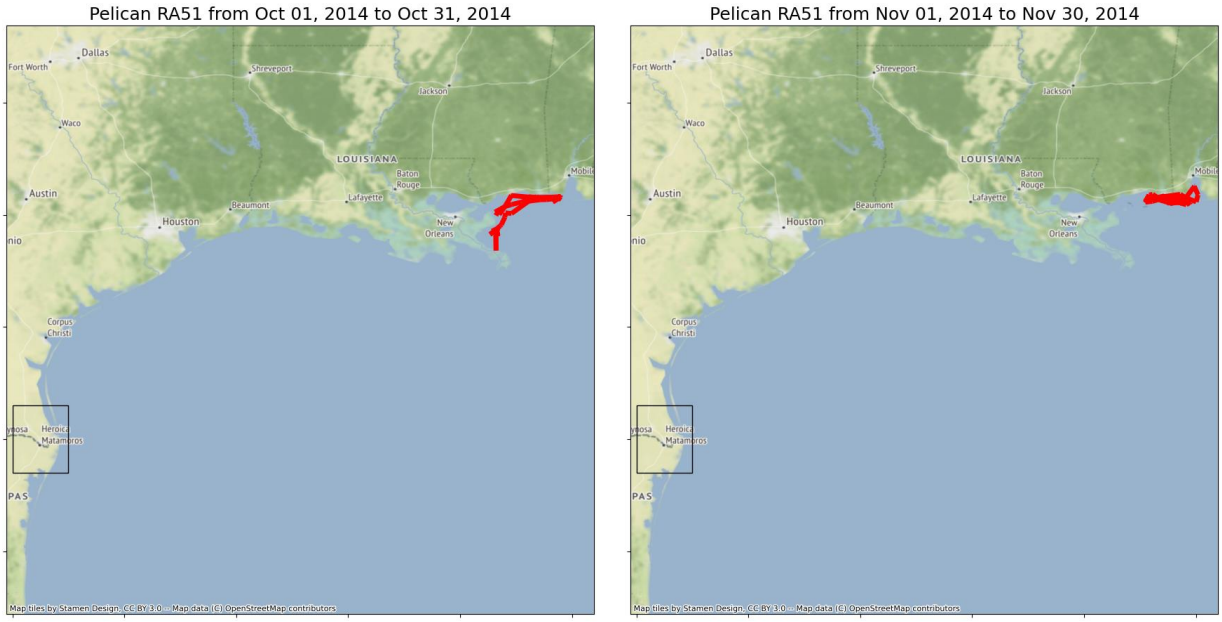

Figure 293 - Movements of RA51 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

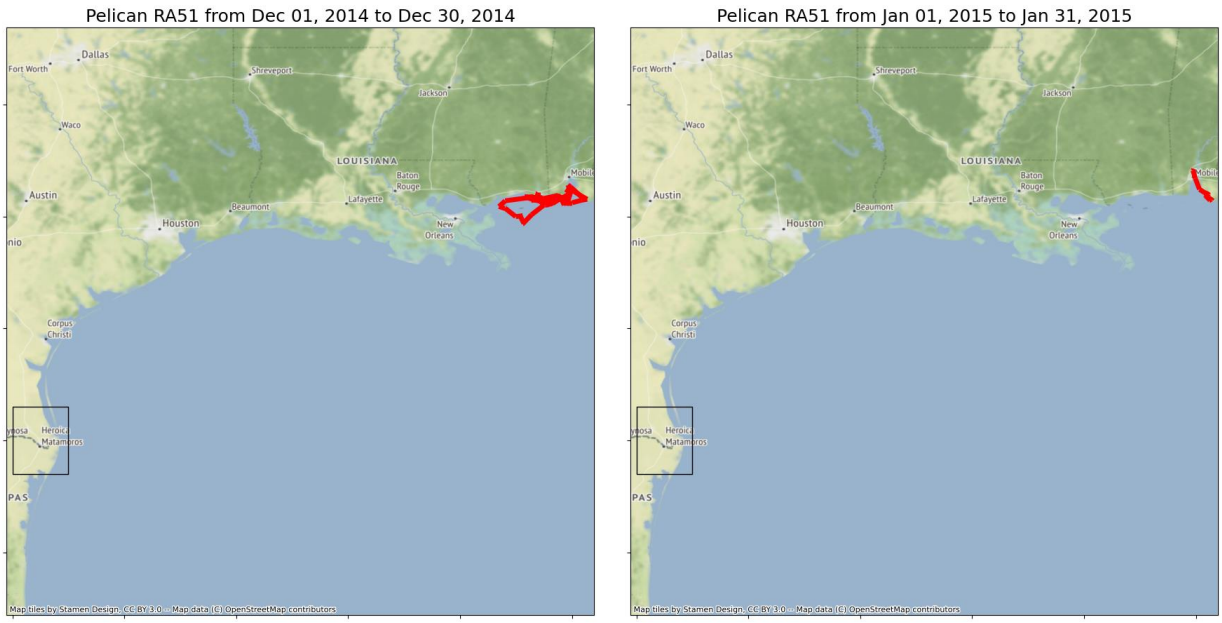

Figure 294 - Movements of RA51 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

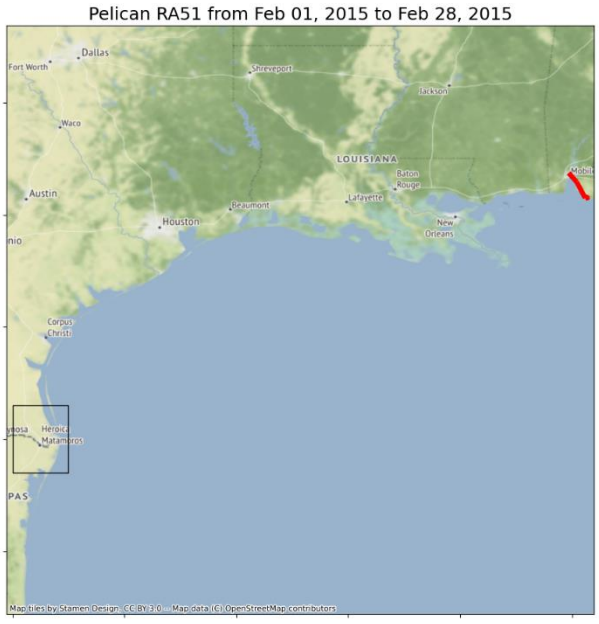

Figure 295 - Movements of RA51 between February 01, 2015 and February 28, 2015. Data from Lamb (2016)

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Pelican RA60 – Active from July 2013 to January 2014

Capture Date: July 03, 2013
Capture Location: Raccoon (LA)
Sex: M
Status: rearing chick
Days Active: 208

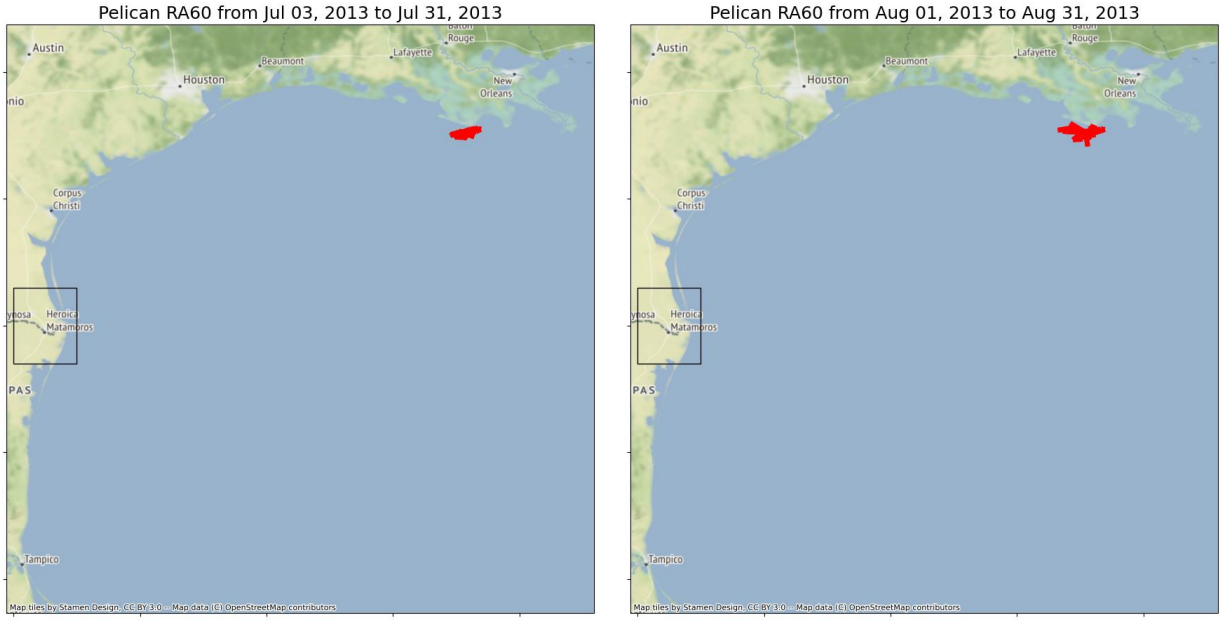

Figure 296 - Movements of RA60 between July 03, 2013 and August 31, 2013. Data from Lamb (2016)

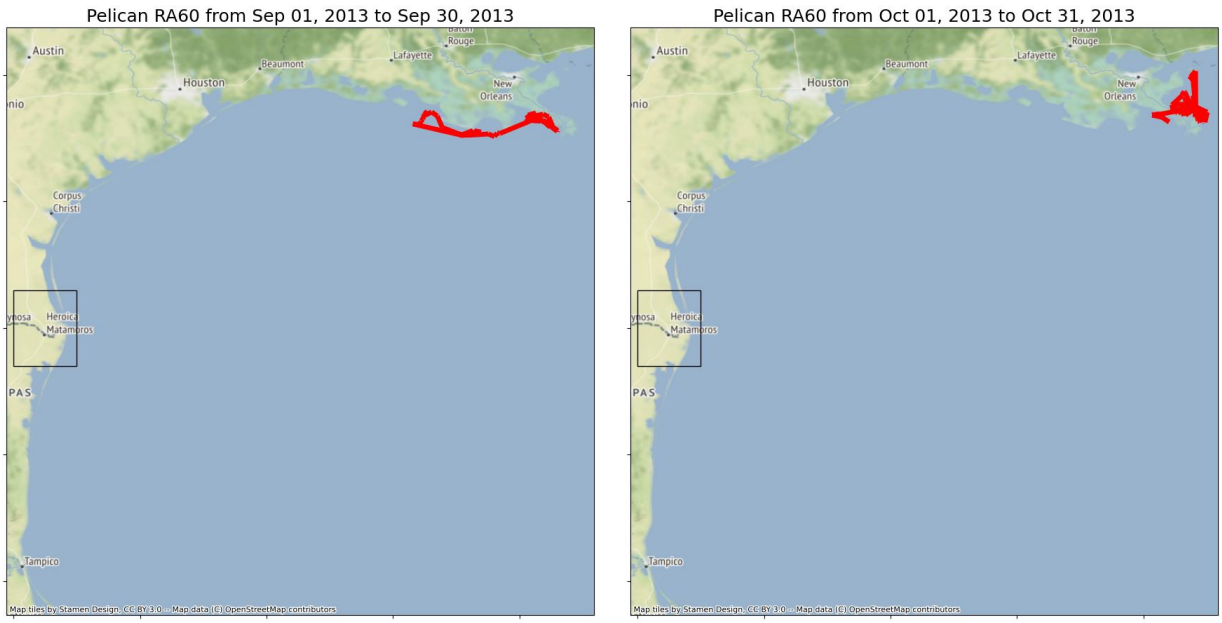

Figure 297 - Movements of RA60 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

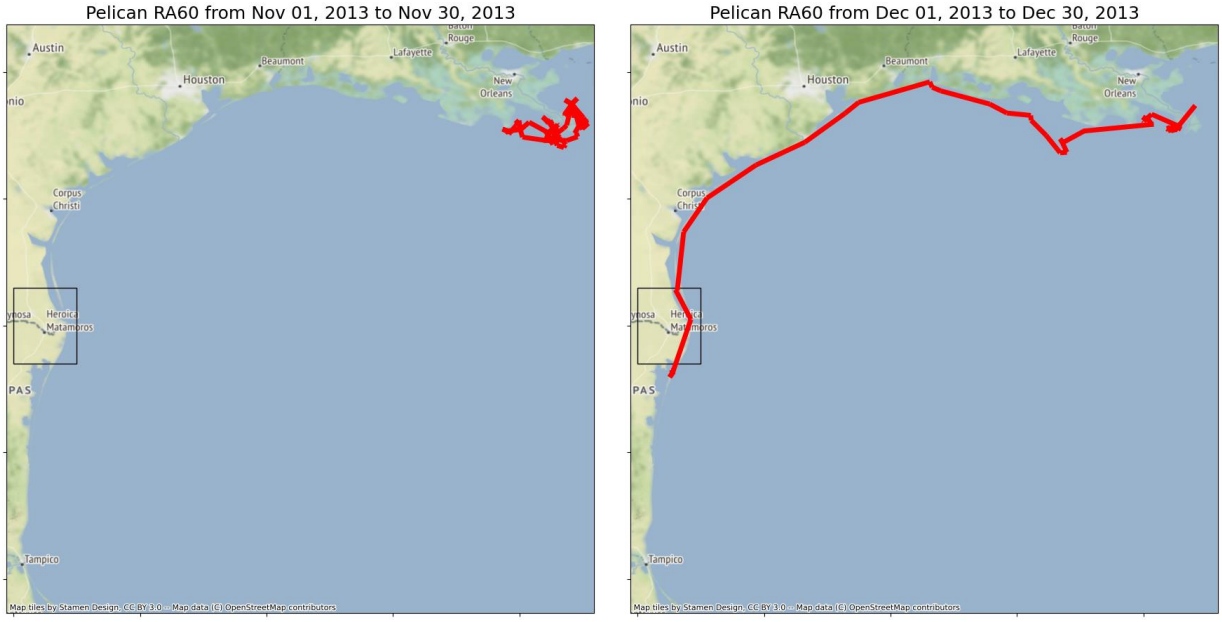

Figure 298 - Movements of RA60 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

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Pelican RA61 – Active from July 2013 to September 2013

Capture Date: July 03, 2013
Capture Location: Raccoon (LA)
Sex: M
Status: Not available
Days Active: 79

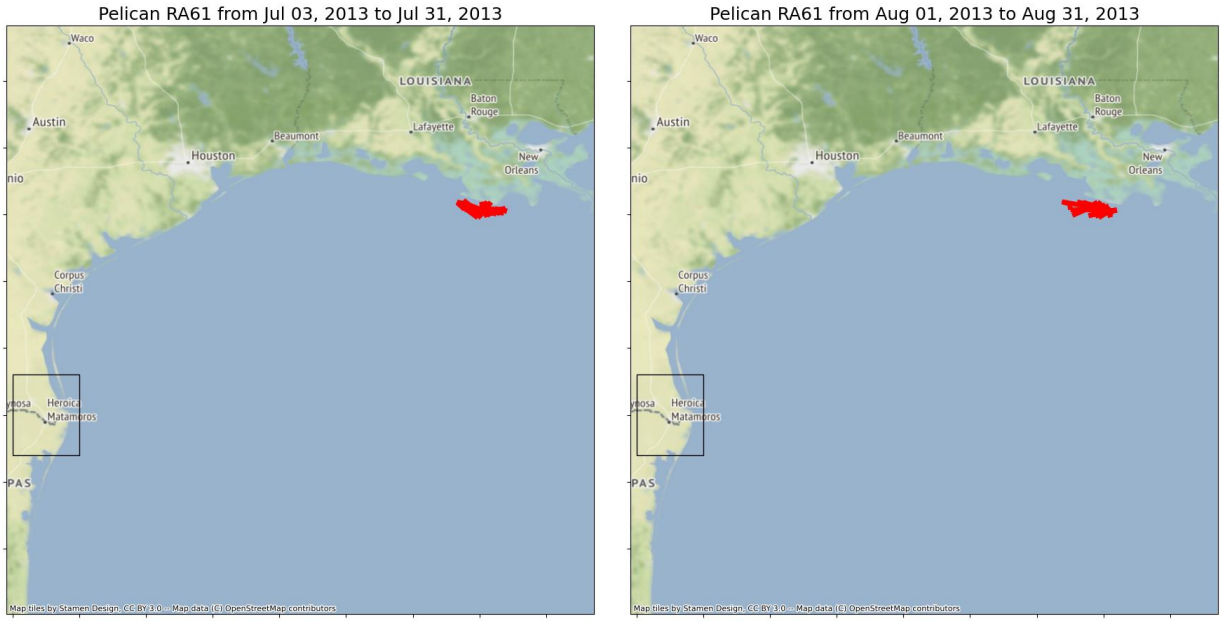

Figure 299 - Movements of RA61 between July 03, 2013 and August 31, 2013. Data from Lamb (2016)

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Pelican RA62 – Active from July 2013 to December 2013

Capture Date: July 03, 2013
Capture Location: Raccoon (LA)
Sex: M
Status: rearing chick
Days Active: 164

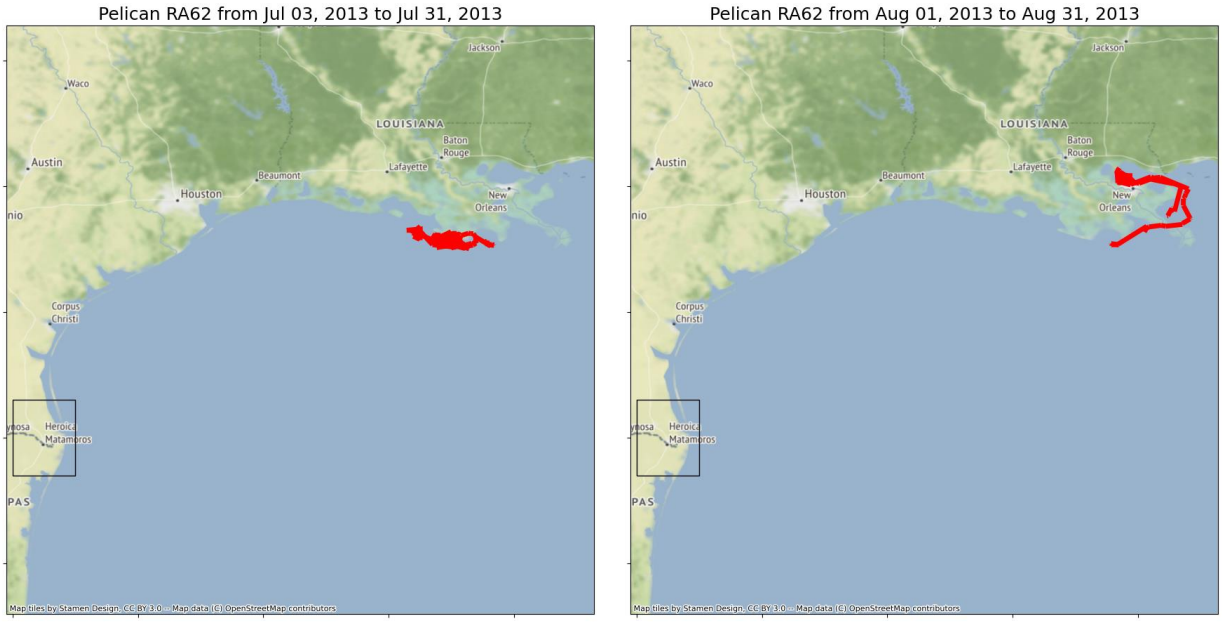

Figure 300 - Movements of RA62 between July 03, 2013 and August 31, 2013. Data from Lamb (2016)

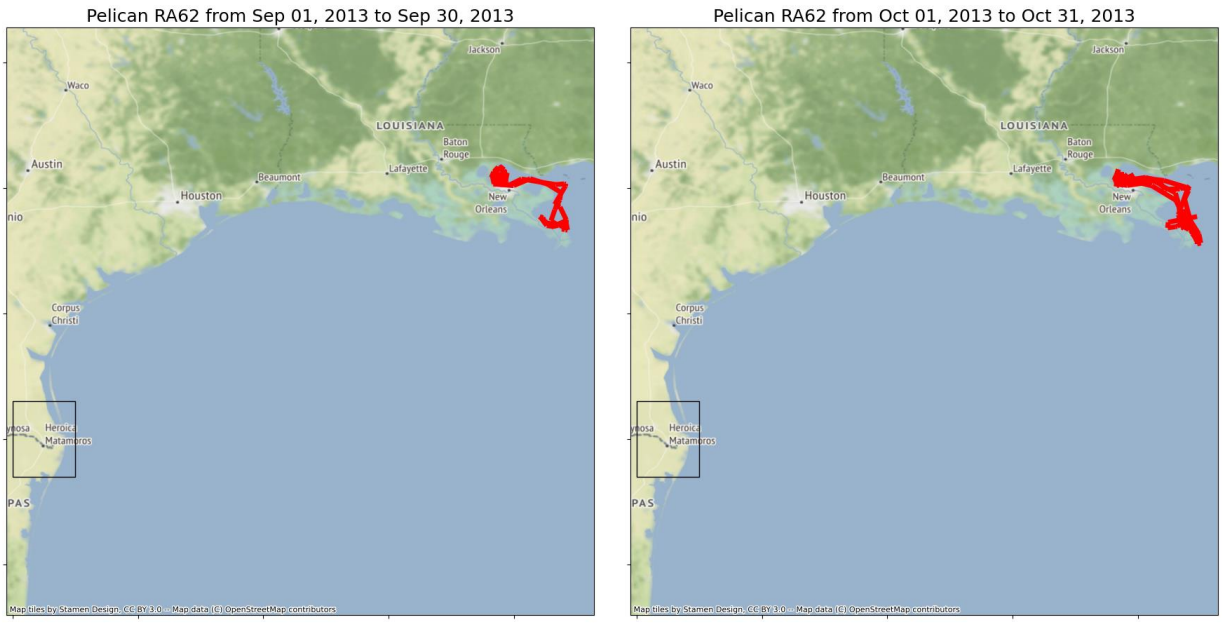

Figure 301 - Movements of RA62 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

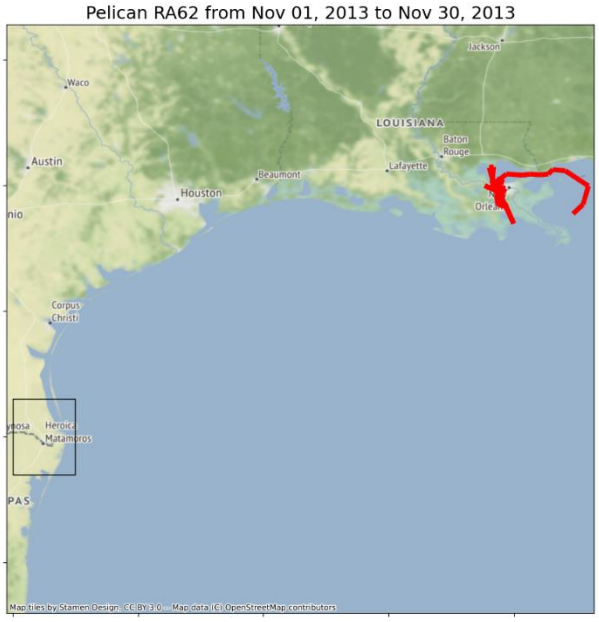

Figure 302 - Movements of RA62 between November 01, 2013 and November 30, 2013. Data from Lamb (2016)

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Pelican RA63 - Active from July 2013 to November 2013

Capture Date: July 03, 2013
Capture Location: Raccoon (LA)
Sex: F
Status: rearing chick
Days Active: 137

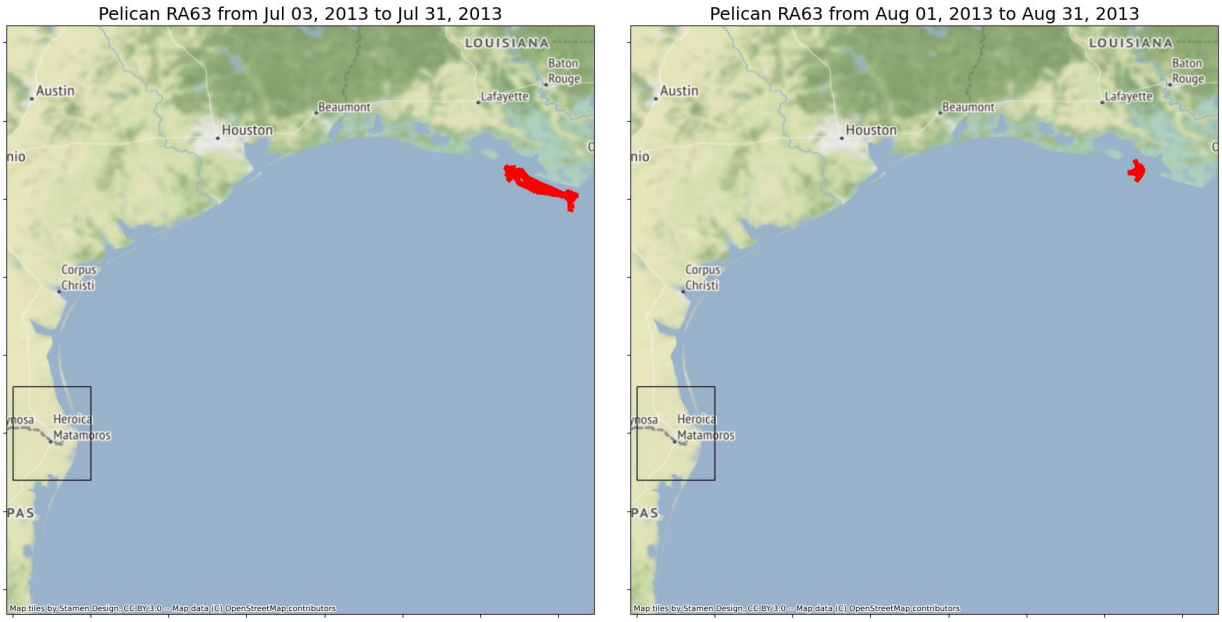

Figure 303 - Movements of RA63 between July 03, 2013 and August 31, 2013. Data from Lamb (2016)

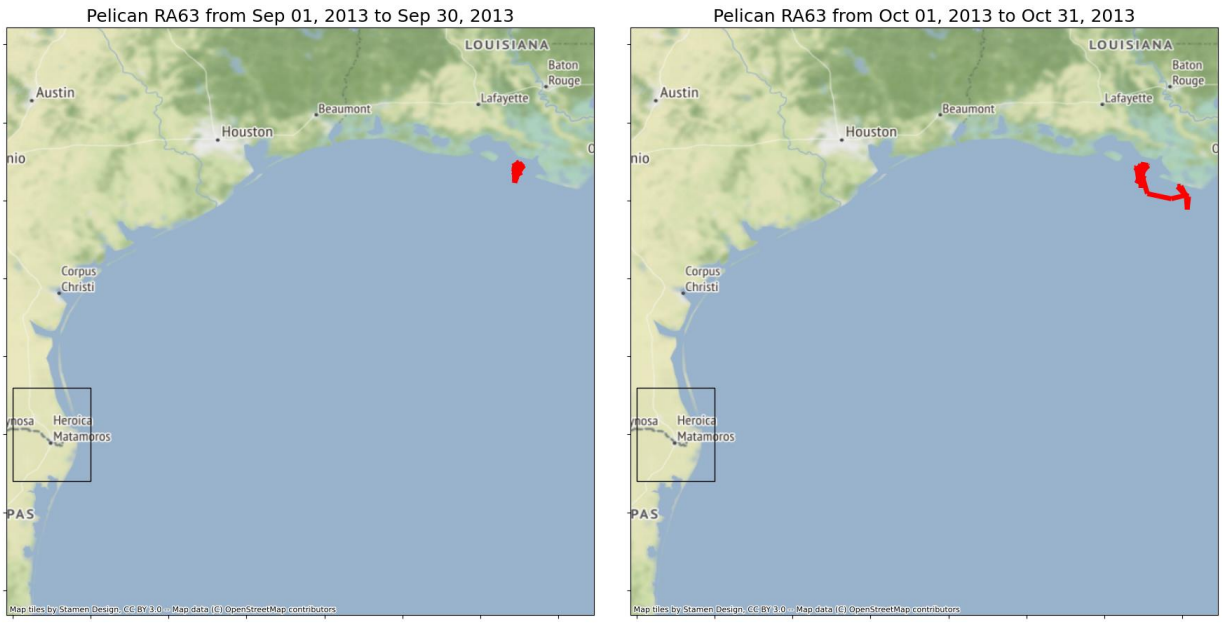

Figure 304 - Movements of RA63 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

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Pelican RA69 - Active from April 2014 to May 2015

Capture Date:	April 25, 2014
Capture Location:	Raccoon (LA)
Sex:	F
Status:	rearing chick
Days Active:	379

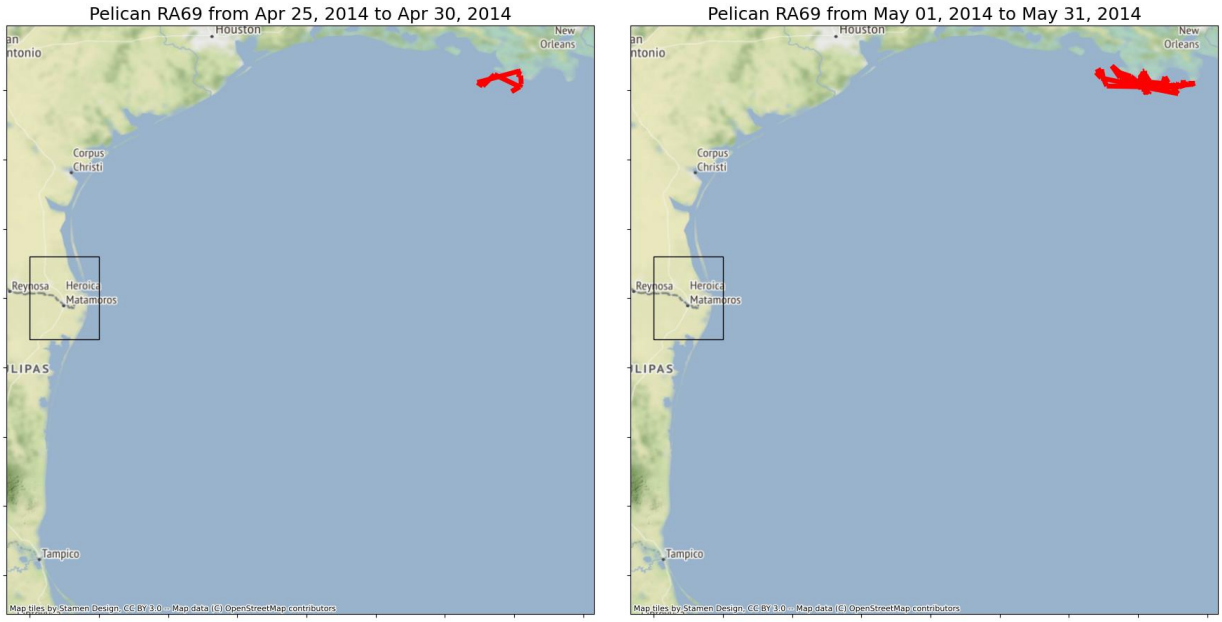

Figure 305 - Movements of RA69 between April 25, 2014 and May 31, 2014. Data from Lamb (2016)

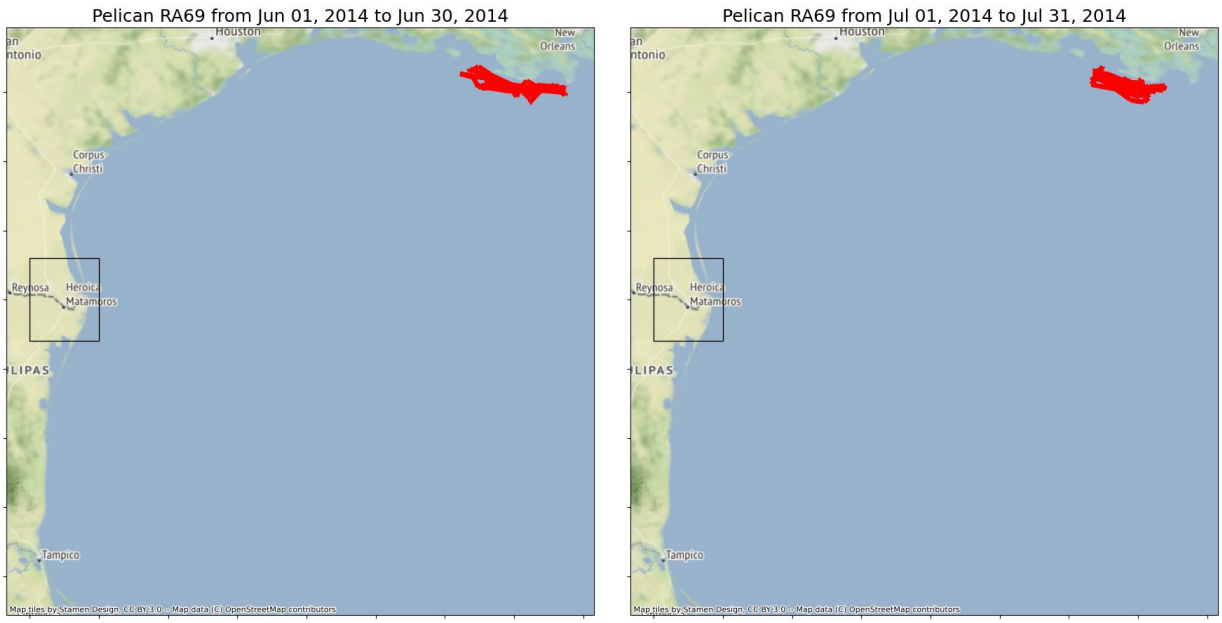

Figure 306 - Movements of RA69 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

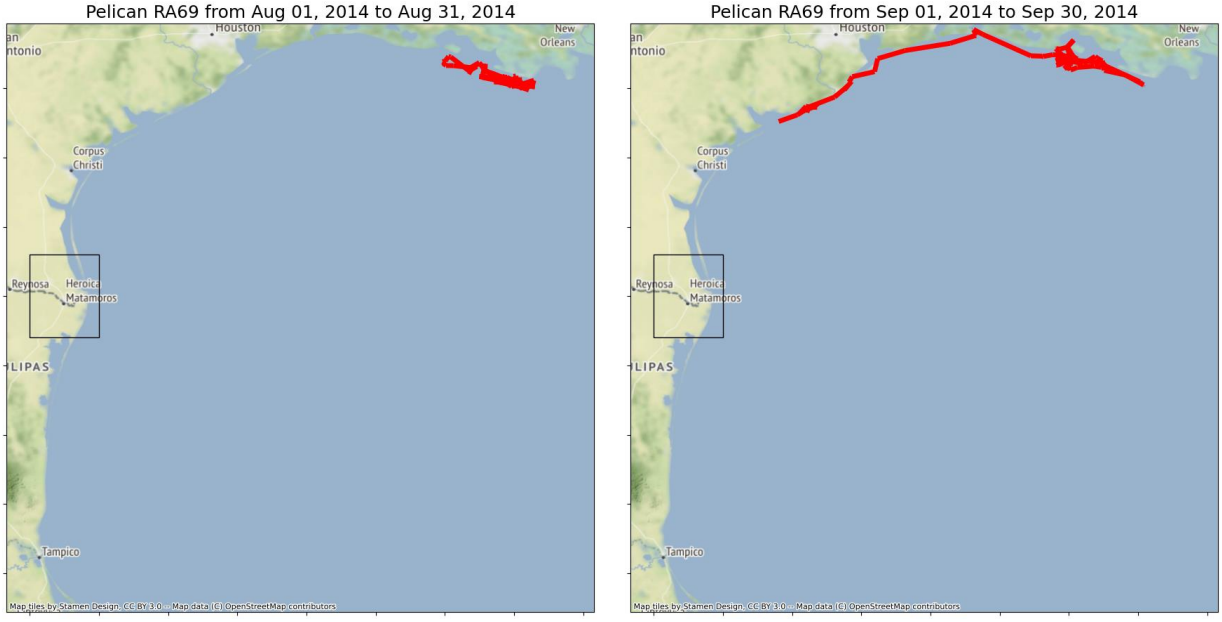

Figure 307 - Movements of RA69 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

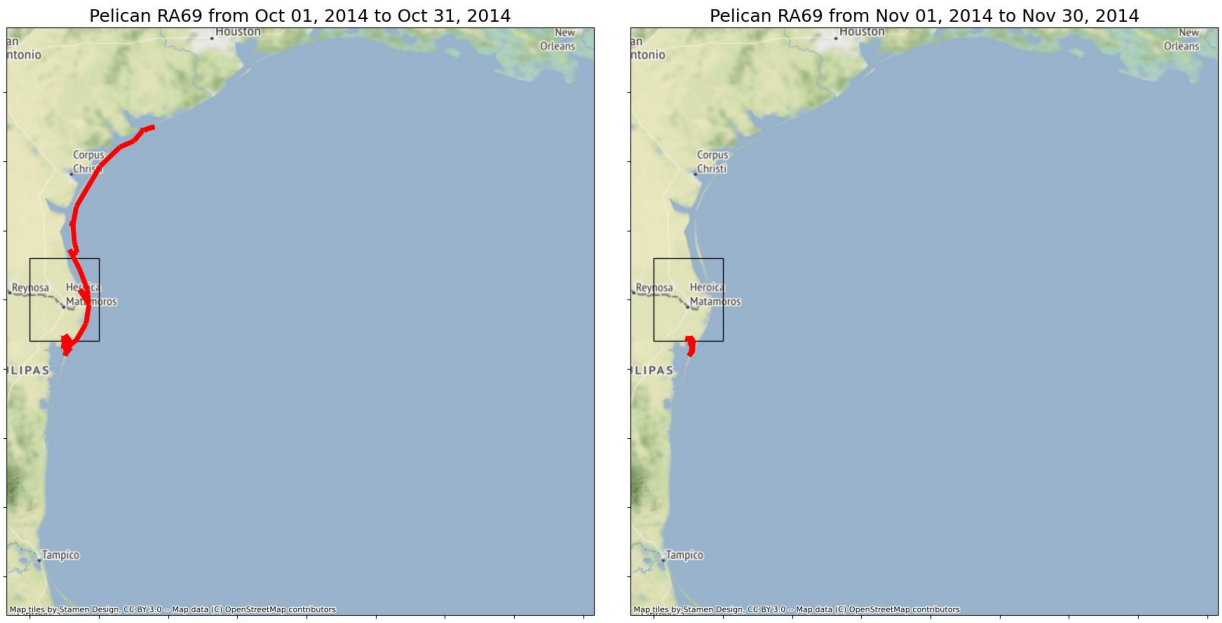

Figure 308 - Movements of RA69 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

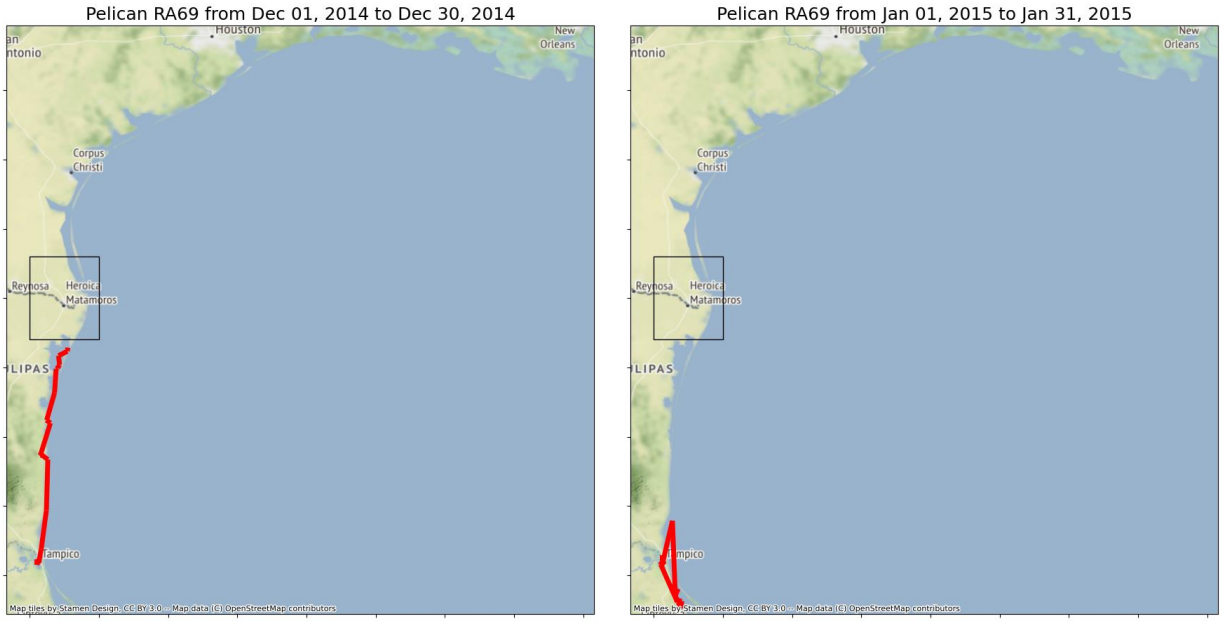

Figure 309 - Movements of RA69 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

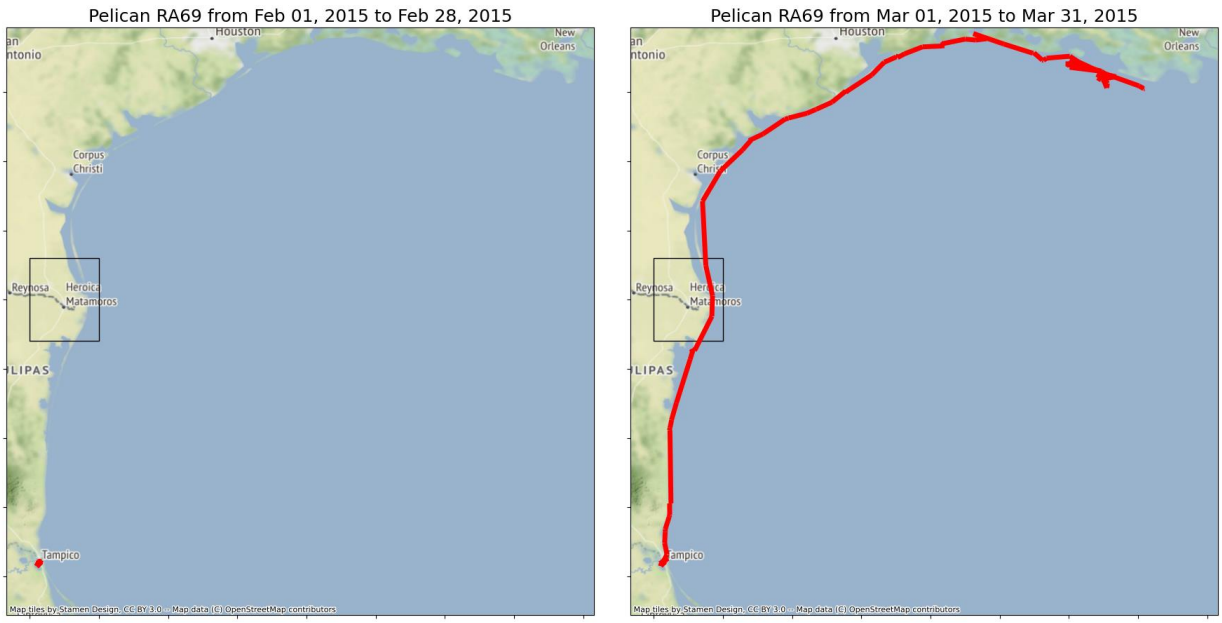

Figure 310 - Movements of RA69 between February 01, 2015 and March 31, 2015. Data from Lamb (2016)

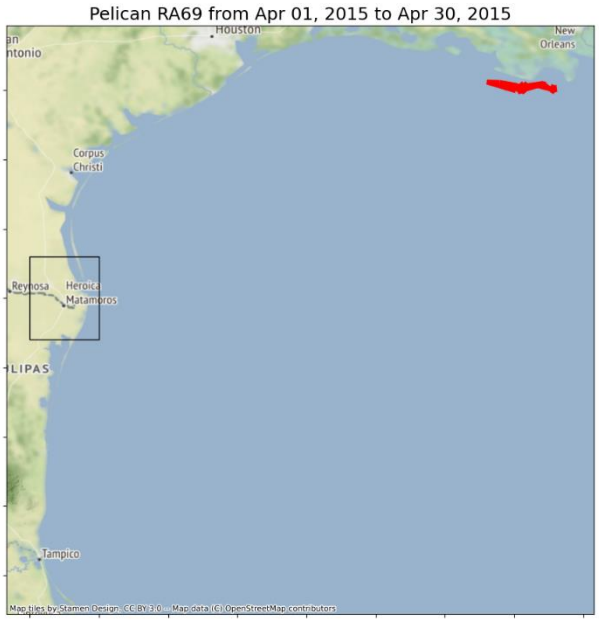

Figure 311 - Movements of RA69 between April 01, 2015 and April 30, 2015. Data from Lamb (2016)

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Pelican RA70 - Active from April 2014 to January 2015

Capture Date: April 25, 2014
Capture Location: Raccoon (LA)
Sex: M
Status: incubating
Days Active: 259

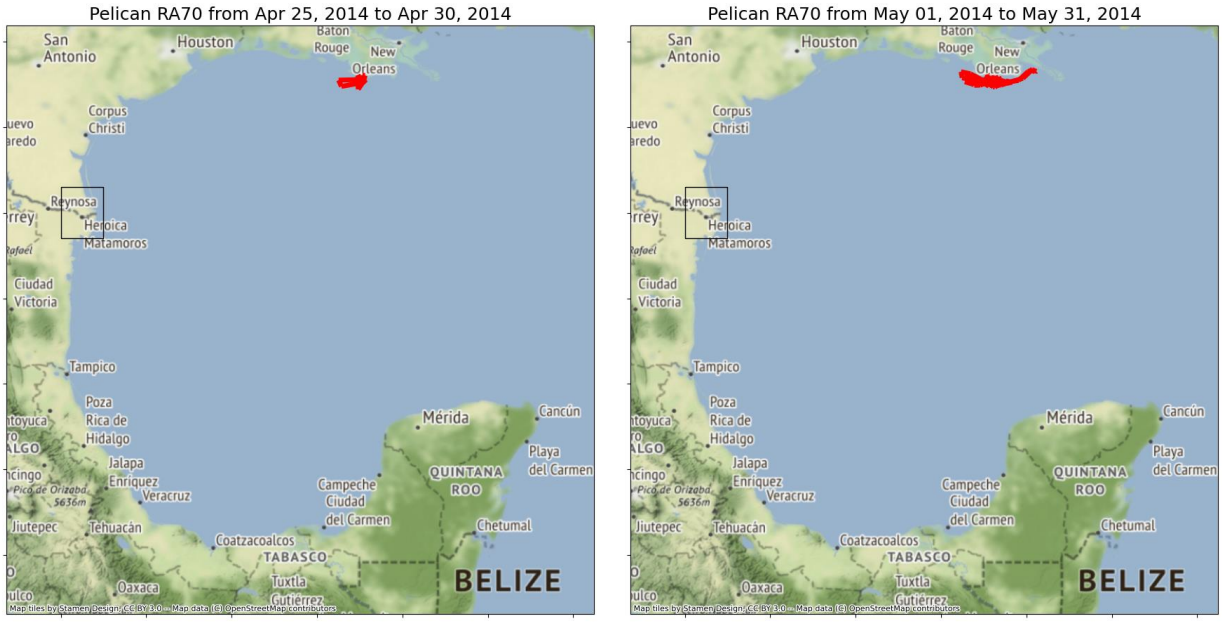

Figure 312 - Movements of RA70 between April 25, 2014 and May 31, 2014. Data from Lamb (2016)

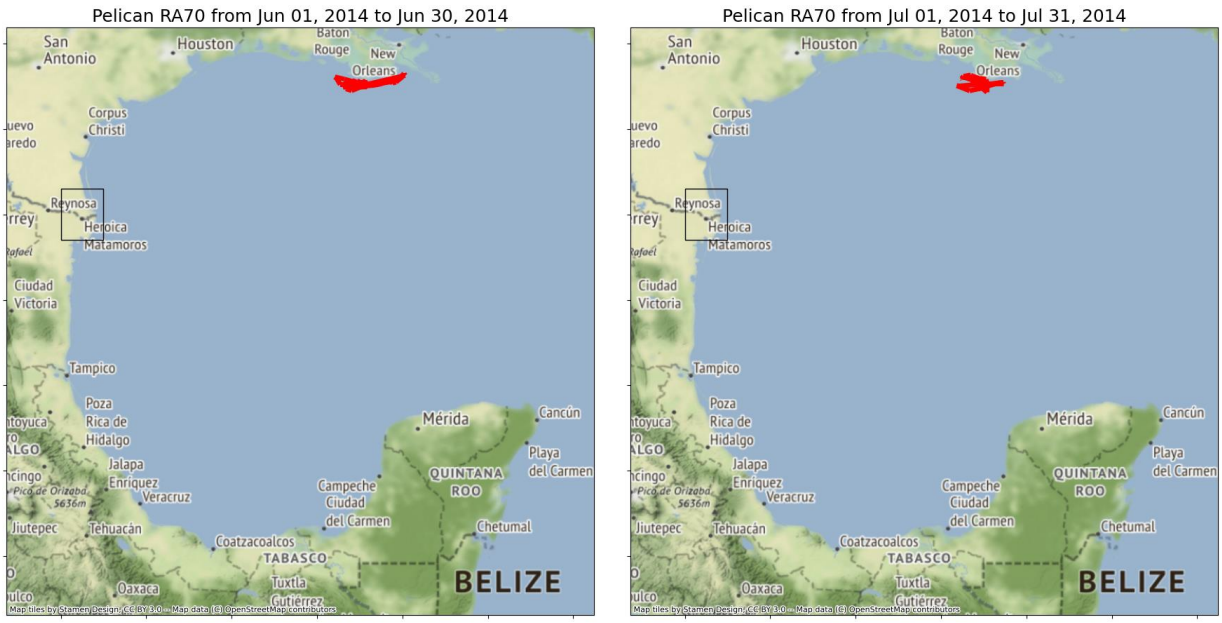

Figure 313 - Movements of RA70 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

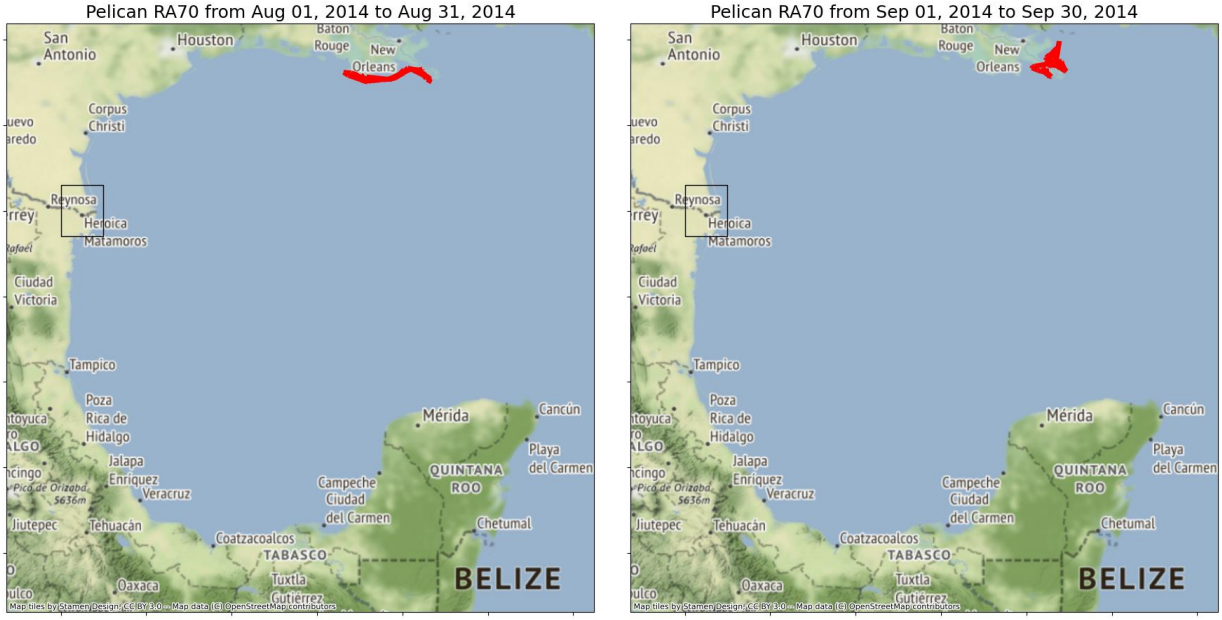

Figure 314 - Movements of RA70 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

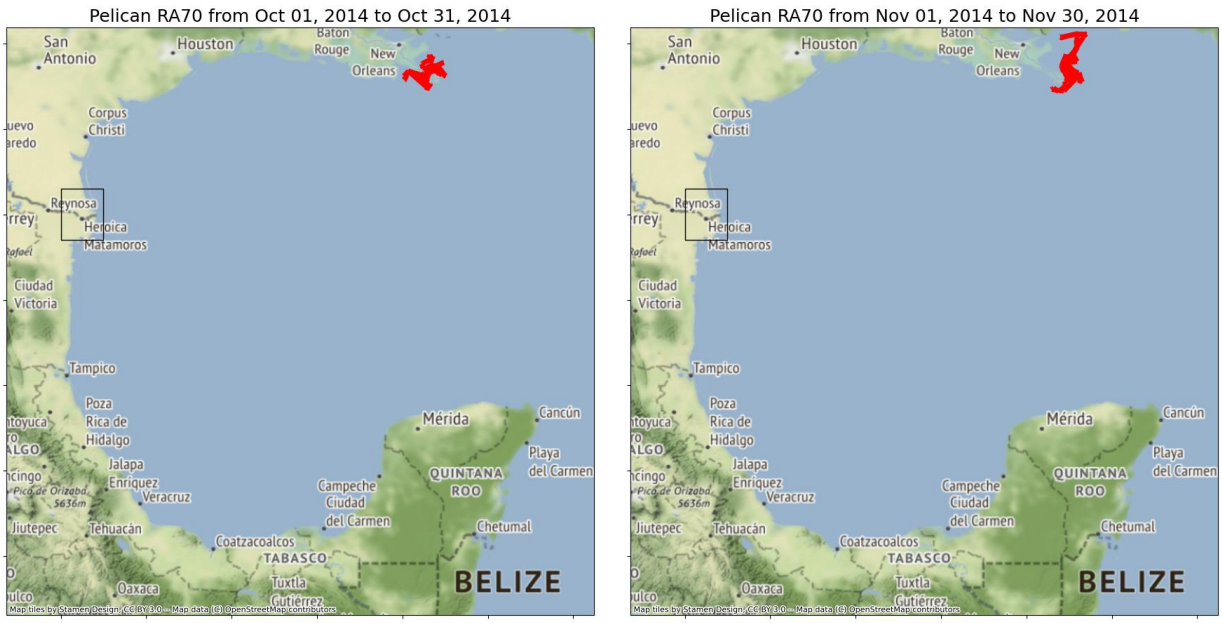

Figure 315 - Movements of RA70 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

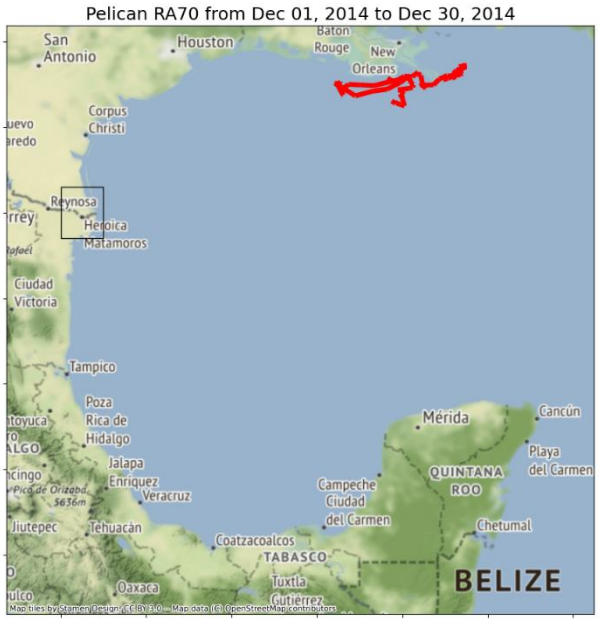

Figure 316 - Movements of RA70 between December 01, 2014 and December 30, 2014. Data from Lamb (2016)

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Pelican RA71 - Active from April 2014 to June 2015

Capture Date: April 25, 2014
Capture Location: Raccoon (LA)
Sex: M
Status: incubating
Days Active: 413

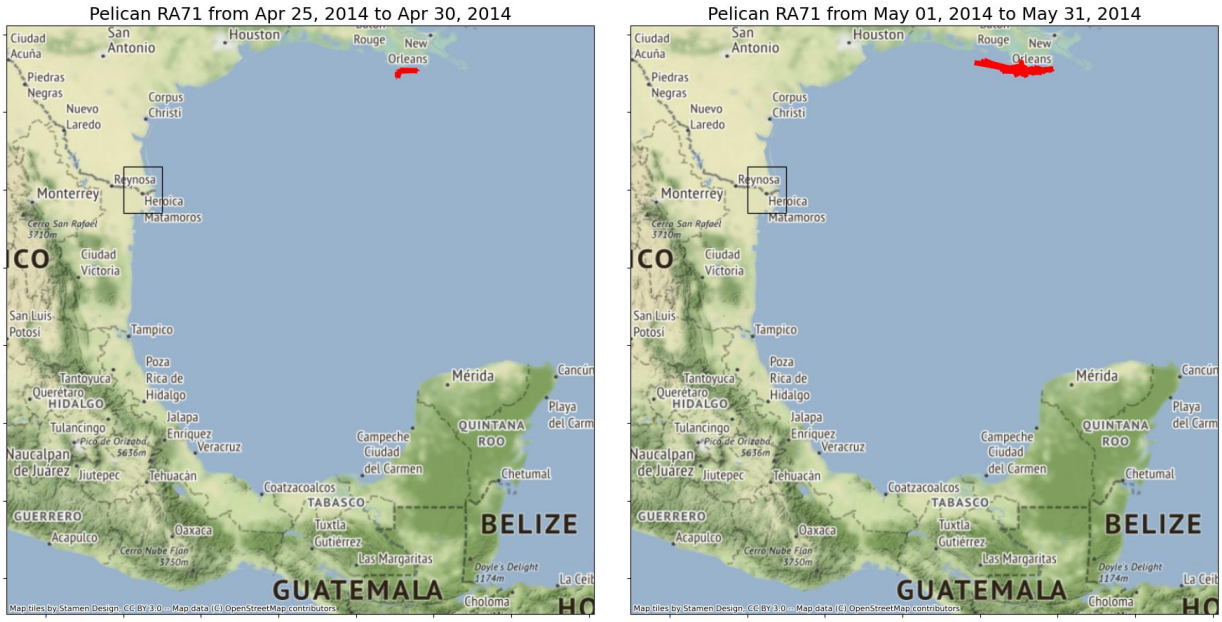

Figure 317 - Movements of RA71 between April 25, 2014 and May 31, 2014. Data from Lamb (2016)

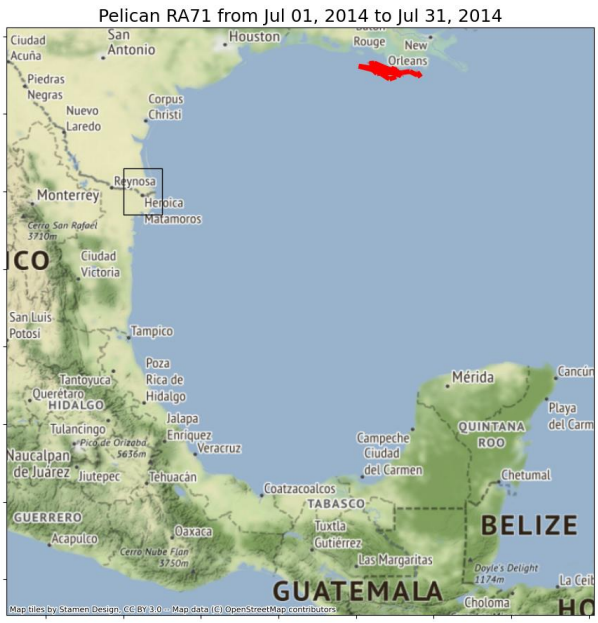

Figure 318 - Movements of RA71 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

Figure 319 - Movements of RA71 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

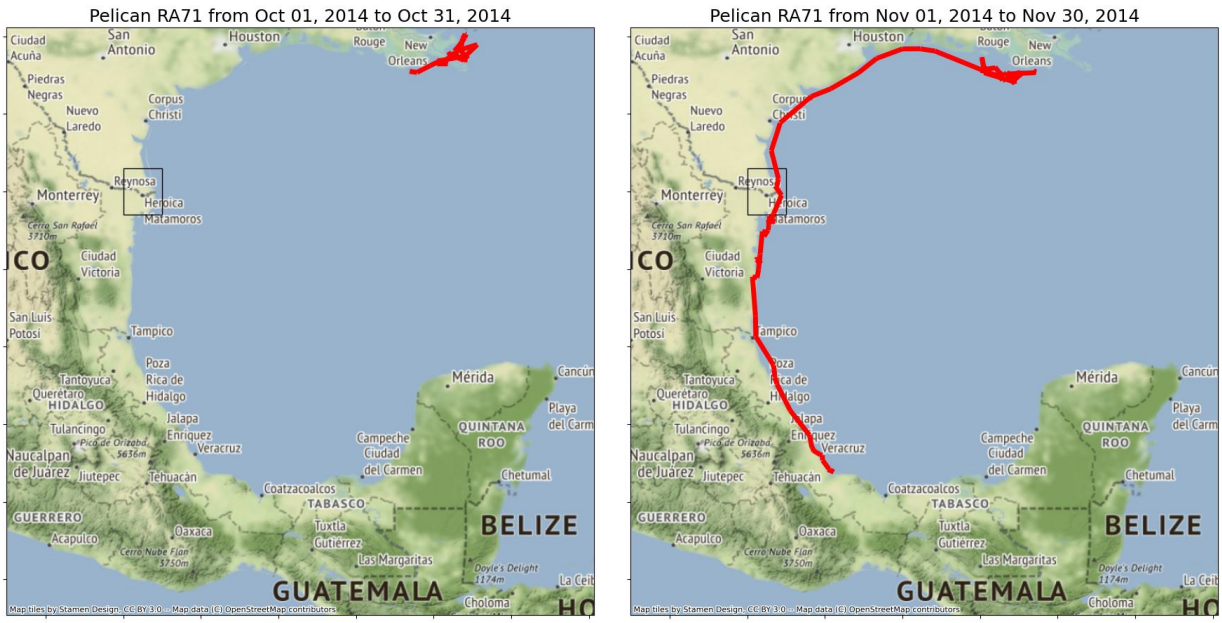

Figure 320 - Movements of RA71 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

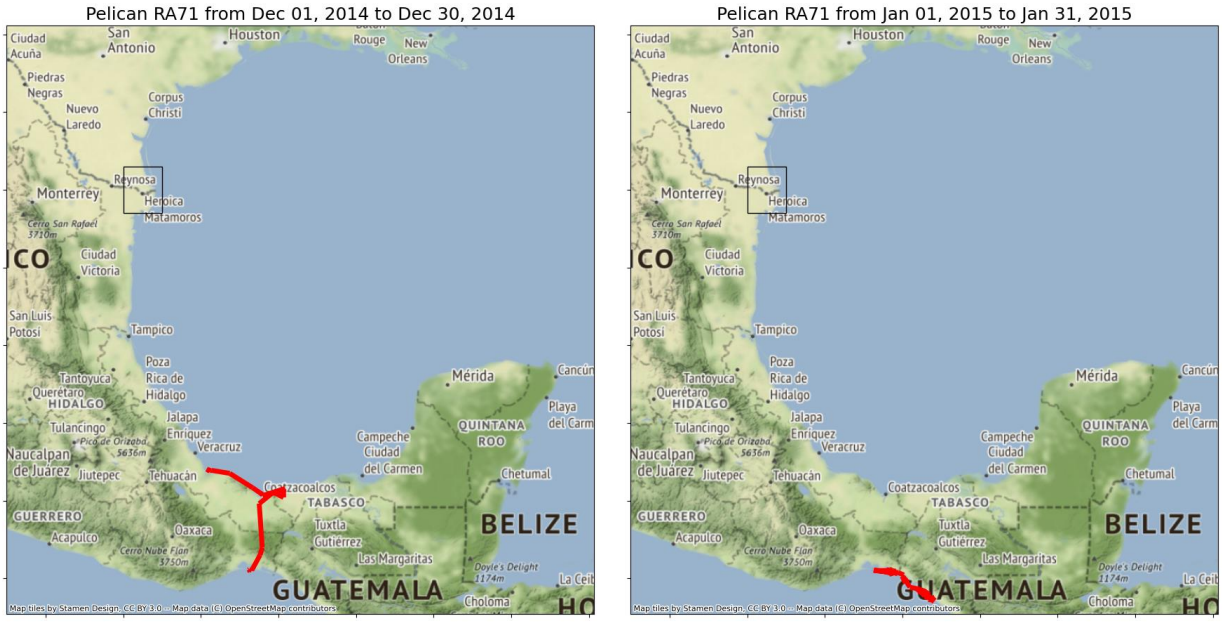

Figure 321 - Movements of RA71 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

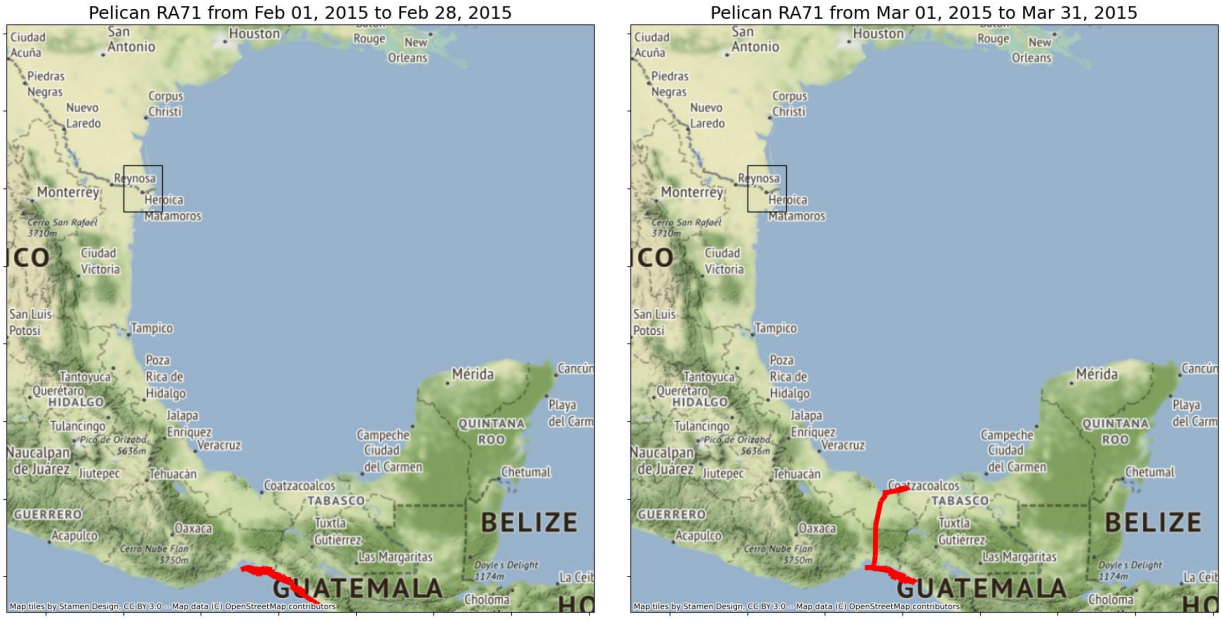

Figure 322 - Movements of RA71 between February 01, 2015 and March 31, 2015. Data from Lamb (2016)

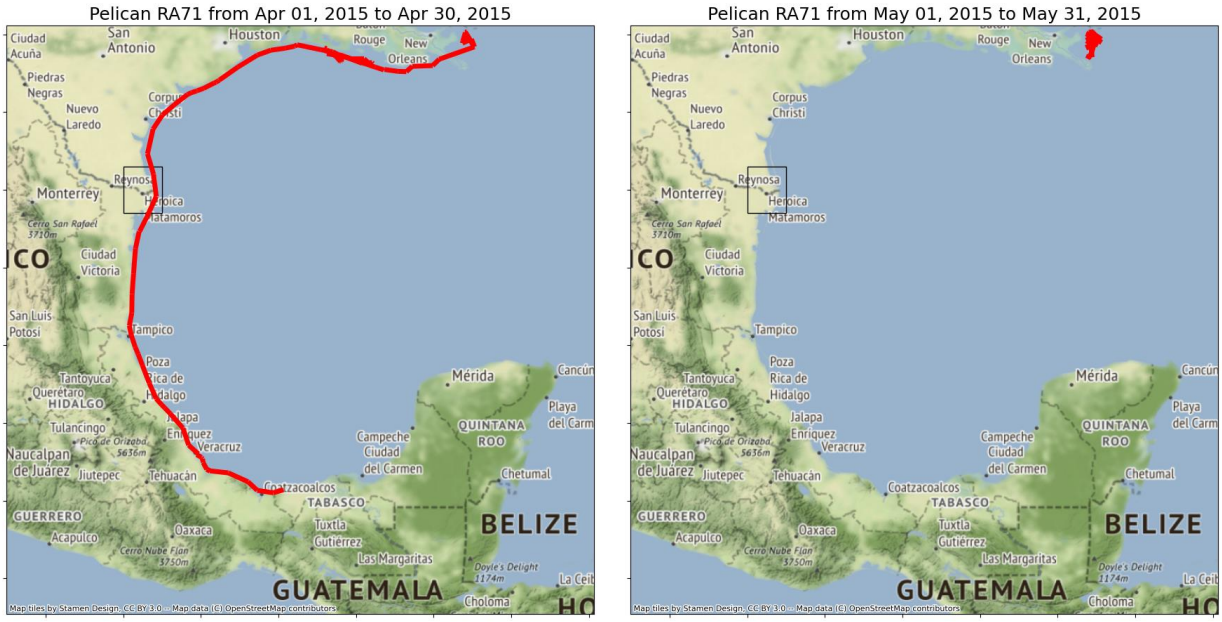

Figure 323 - Movements of RA71 between April 01, 2015 and May 31, 2015. Data from Lamb (2016)

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Pelican RA72 - Active from April 2014 to January 2016

Capture Date:	April 25, 2014
Capture Location:	Raccoon (LA)
Sex:	M
Status:	incubating
Days Active:	633

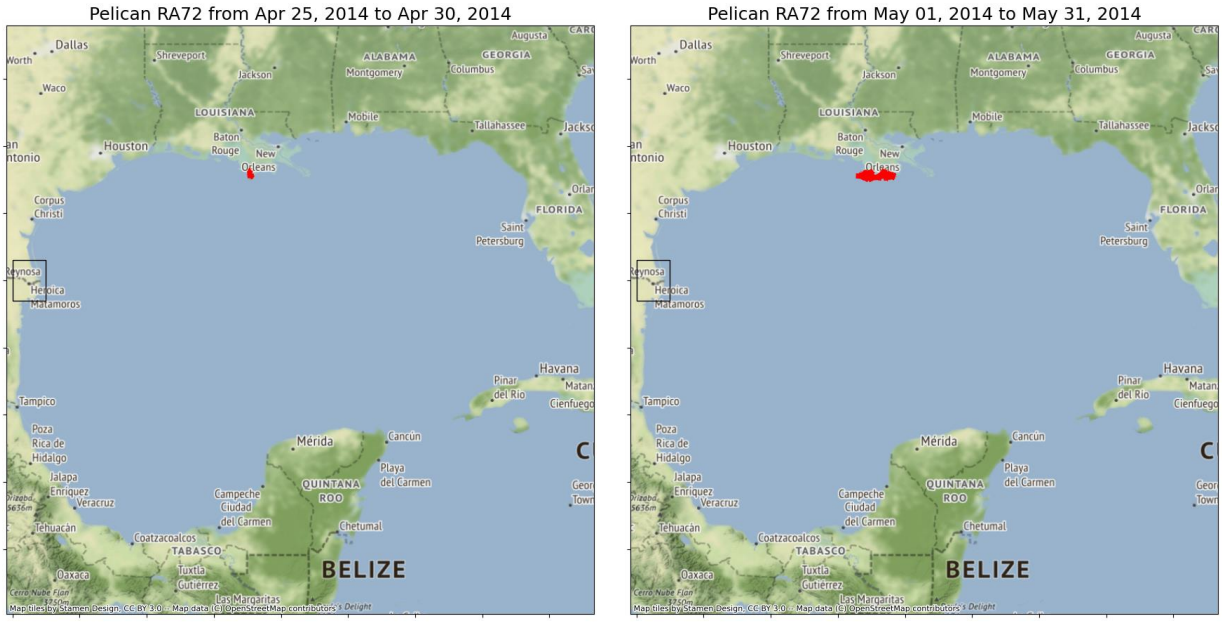
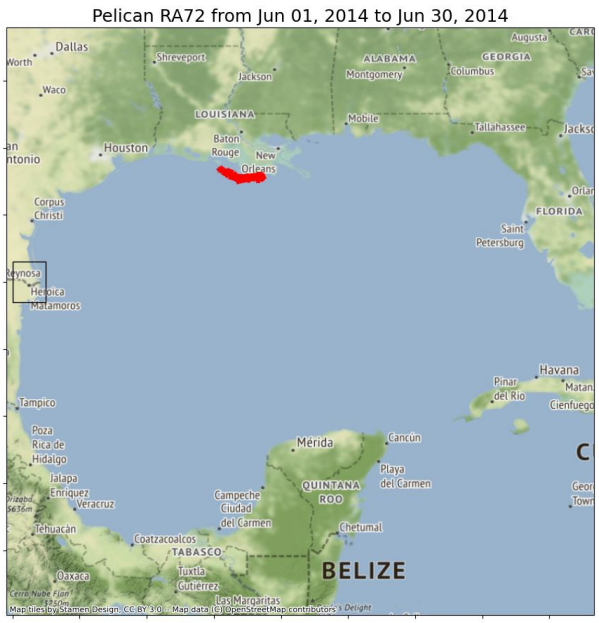


Figure 324 - Movements of RA72 between April 25, 2014 and May 31, 2014. Data from Lamb (2016)



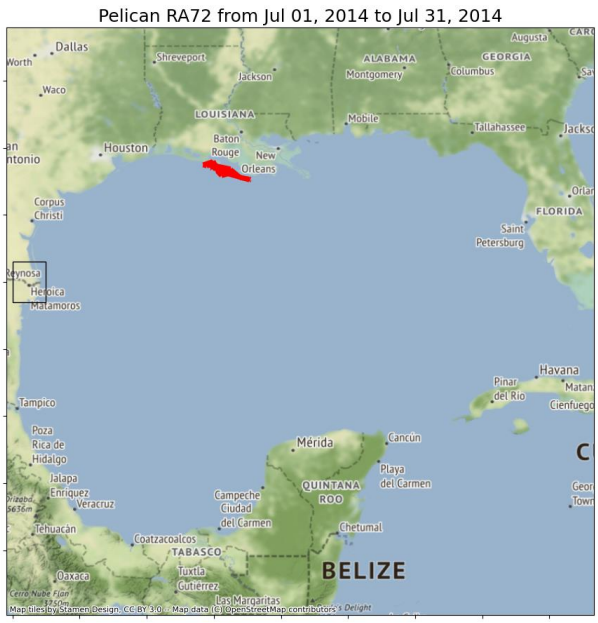
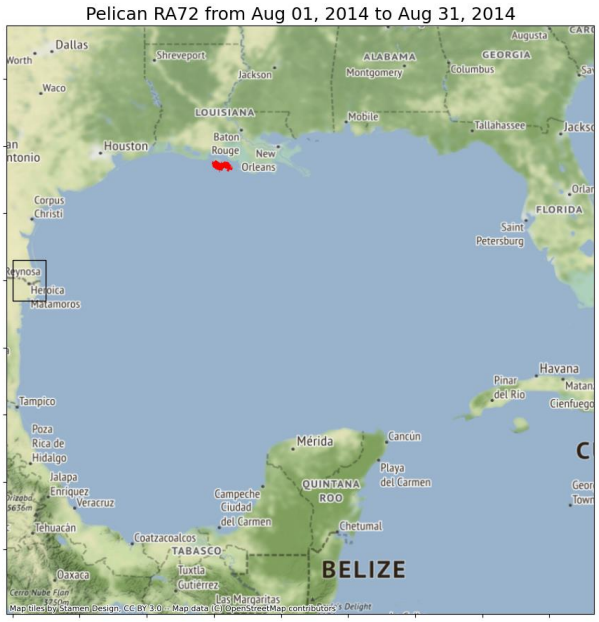


Figure 325 - Movements of RA72 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)



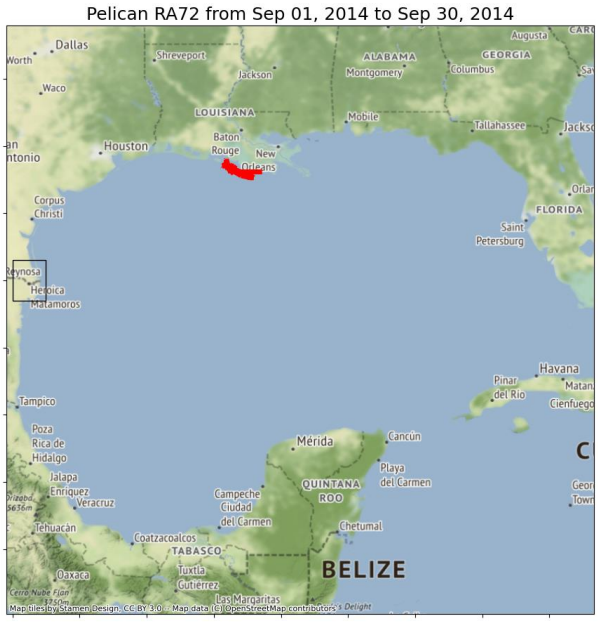
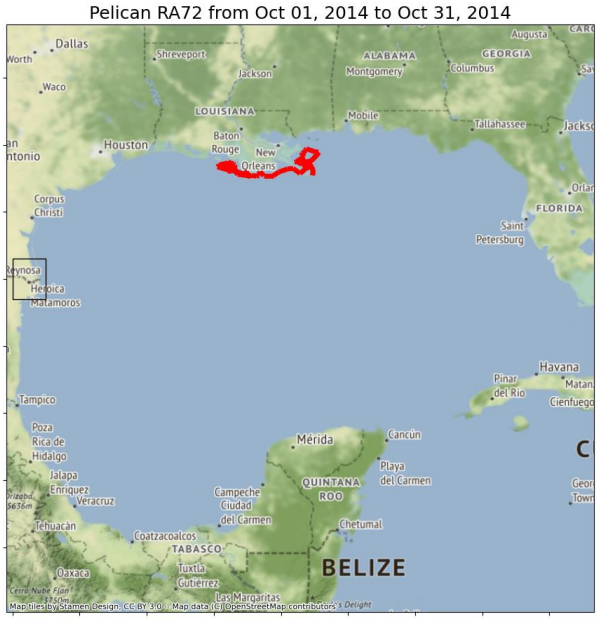


Figure 326 - Movements of RA72 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)



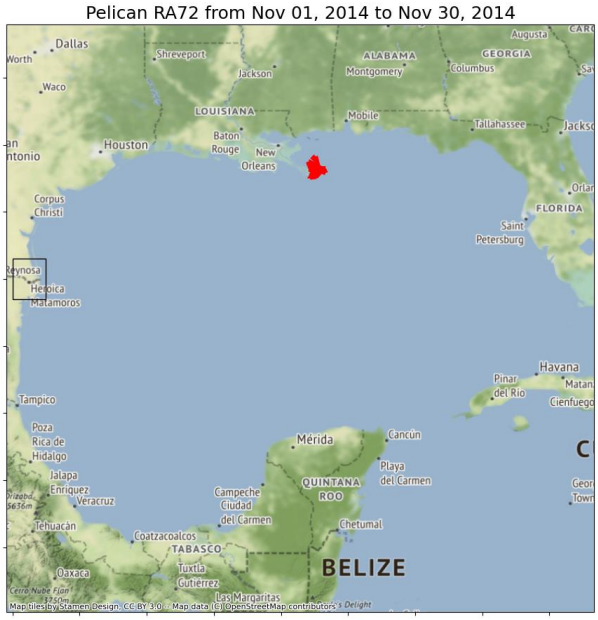
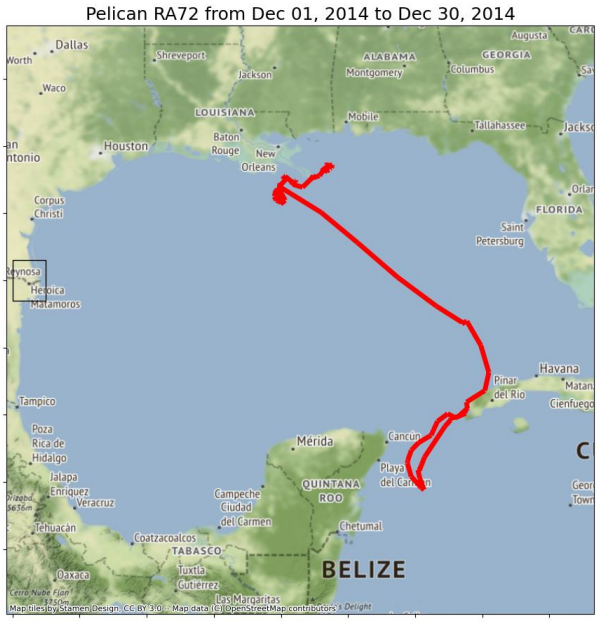


Figure 327 - Movements of RA72 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)



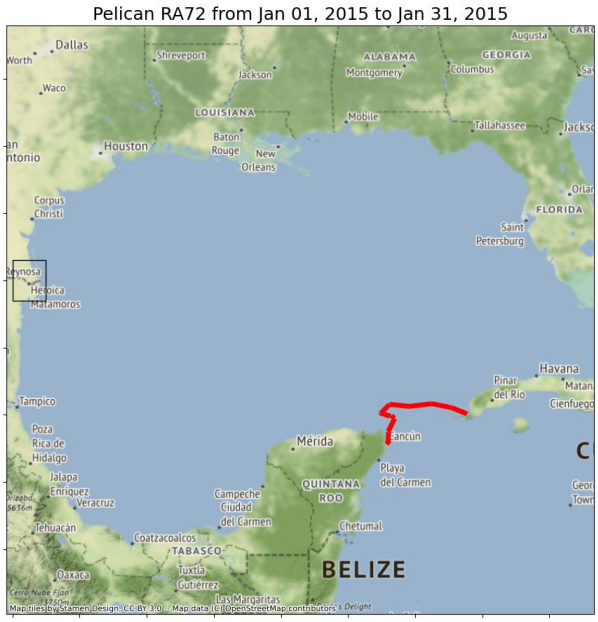
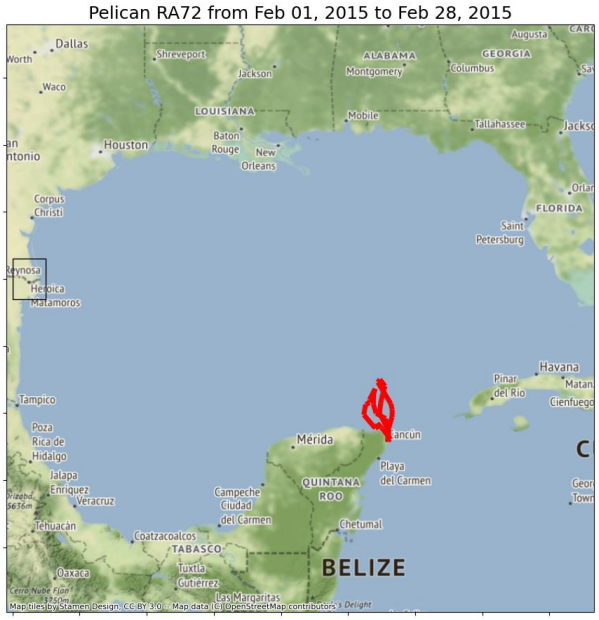


Figure 328 - Movements of RA72 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)



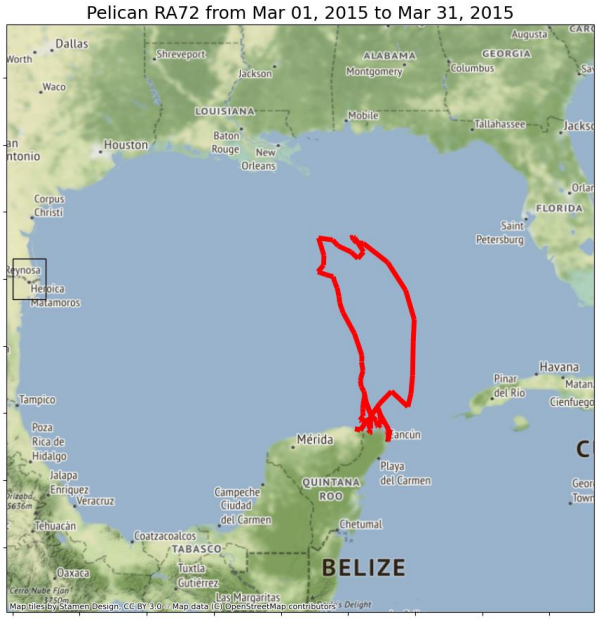
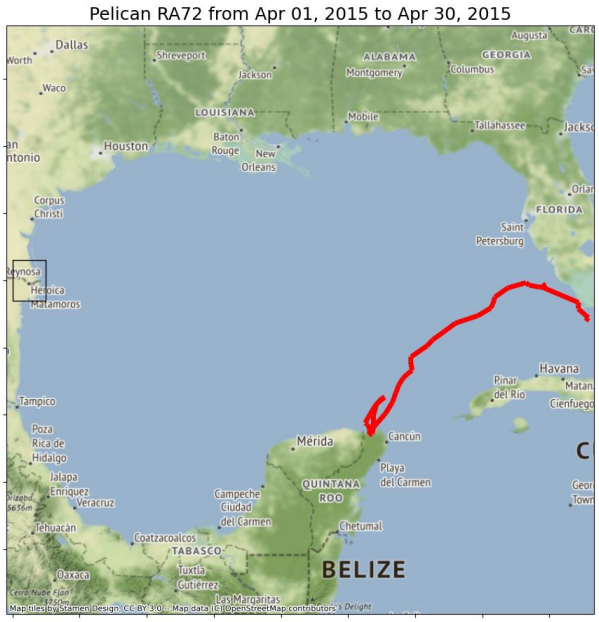


Figure 329 - Movements of RA72 between February 01, 2015 and March 31, 2015. Data from Lamb (2016)



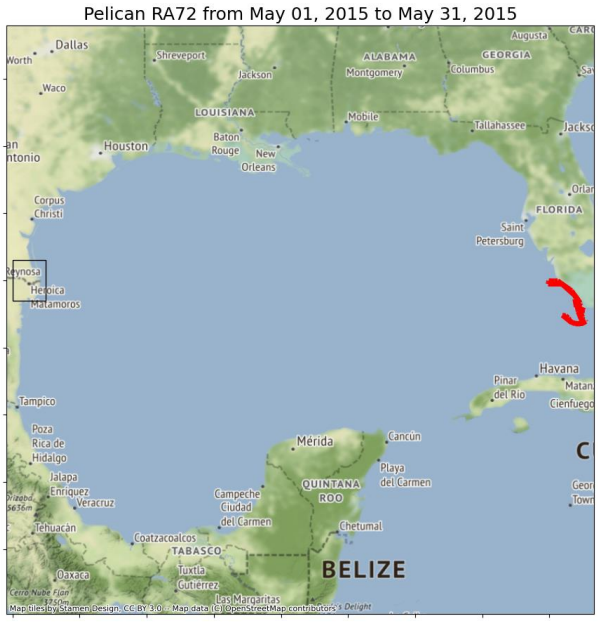
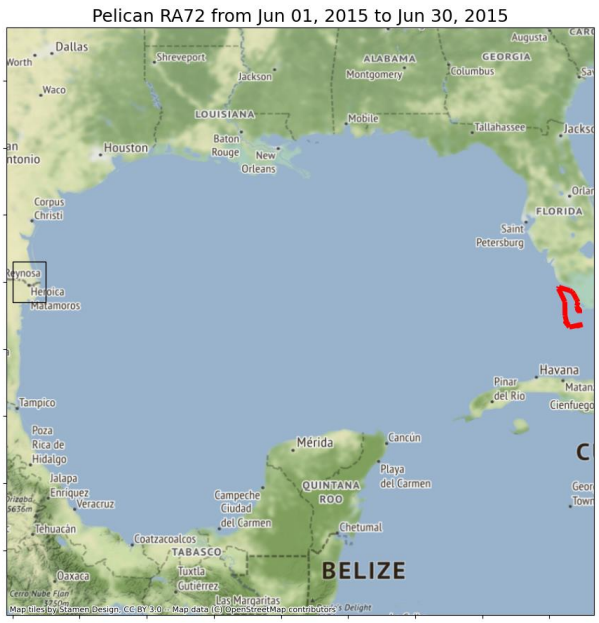


Figure 330 - Movements of RA72 between April 01, 2015 and May 31, 2015. Data from Lamb (2016)



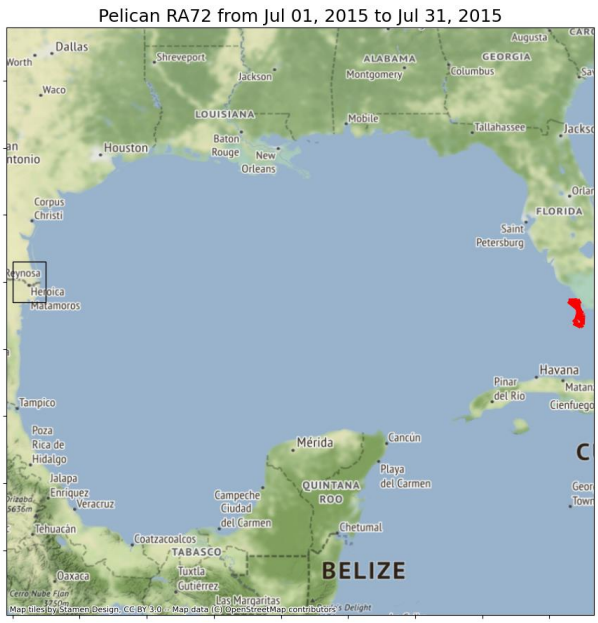
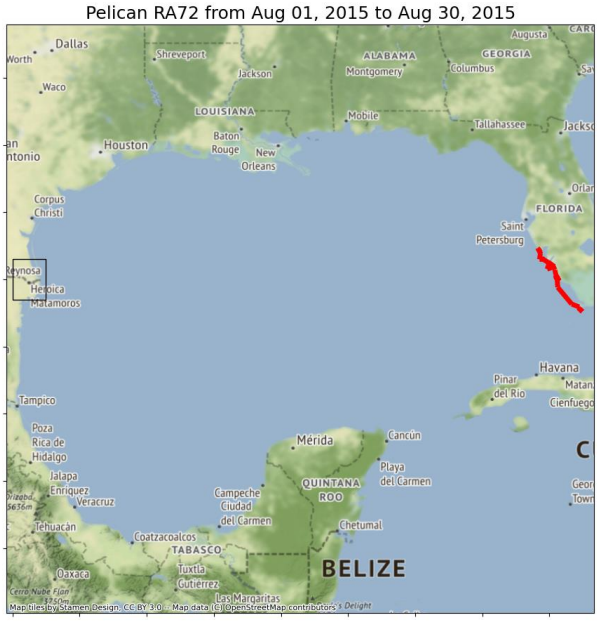


Figure 331 - Movements of RA72 between June 01, 2015 and July 31, 2015. Data from Lamb (2016)



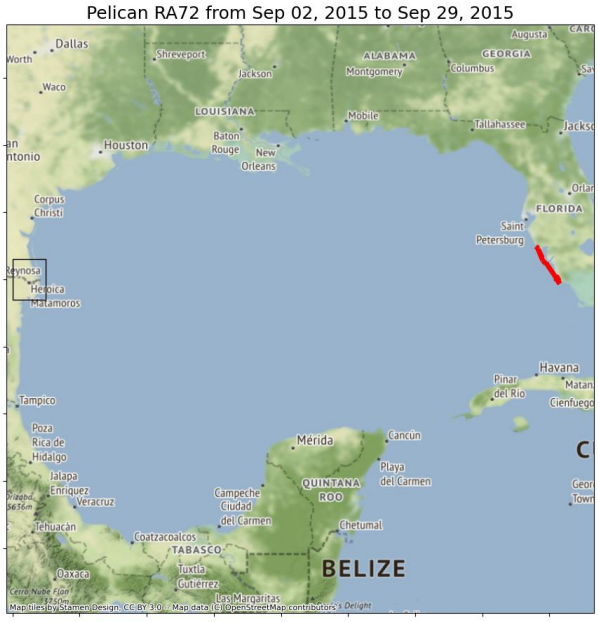


Figure 332 - Movements of RA72 between August 01, 2015 and September 29, 2015. Data from Lamb (2016)

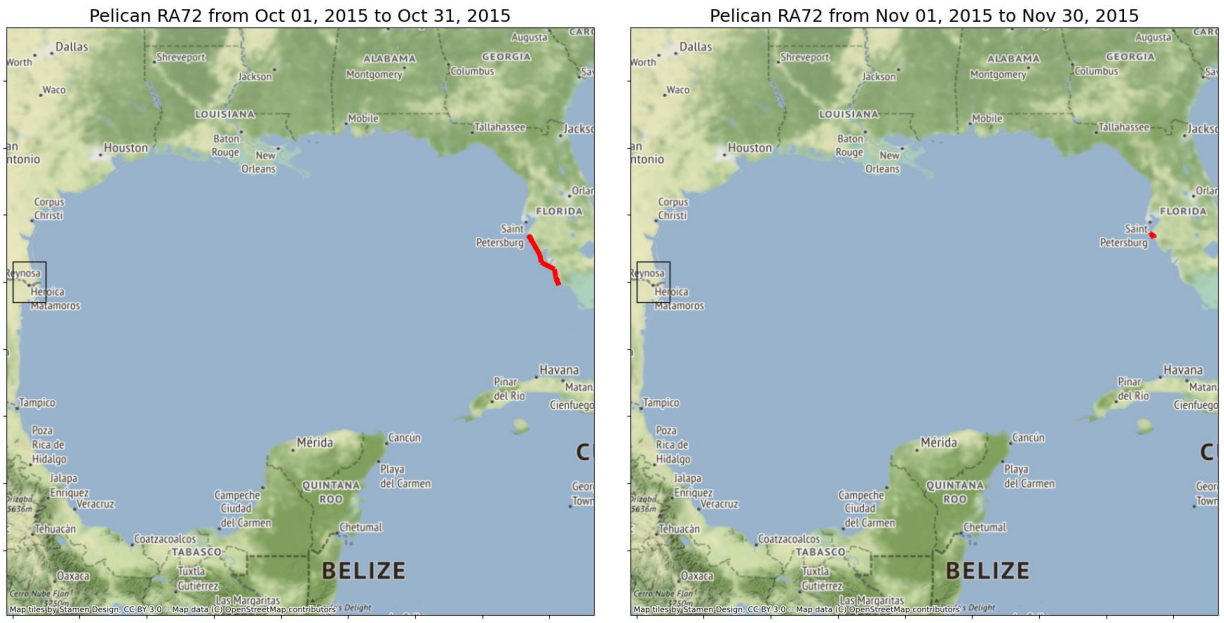


Figure 333 - Movements of RA72 between October 01, 2015 and November 30, 2015. Data from Lamb (2016)

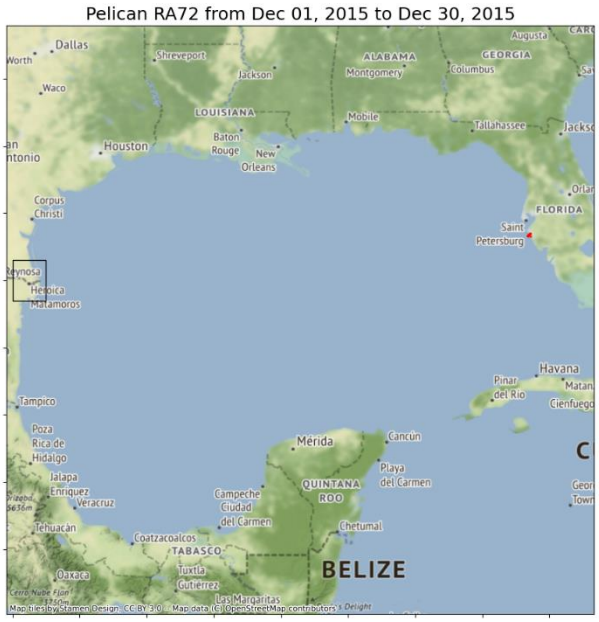


Figure 334 - Movements of RA72 between December 01, 2015 and December 30, 2015. Data from Lamb (2016)

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Pelican RAJ23 - Active from April 2014 to February 2016

Capture Date: April 25, 2014
Capture Location: Raccoon (LA)
Sex: F
Status: incubating
Days Active: 650

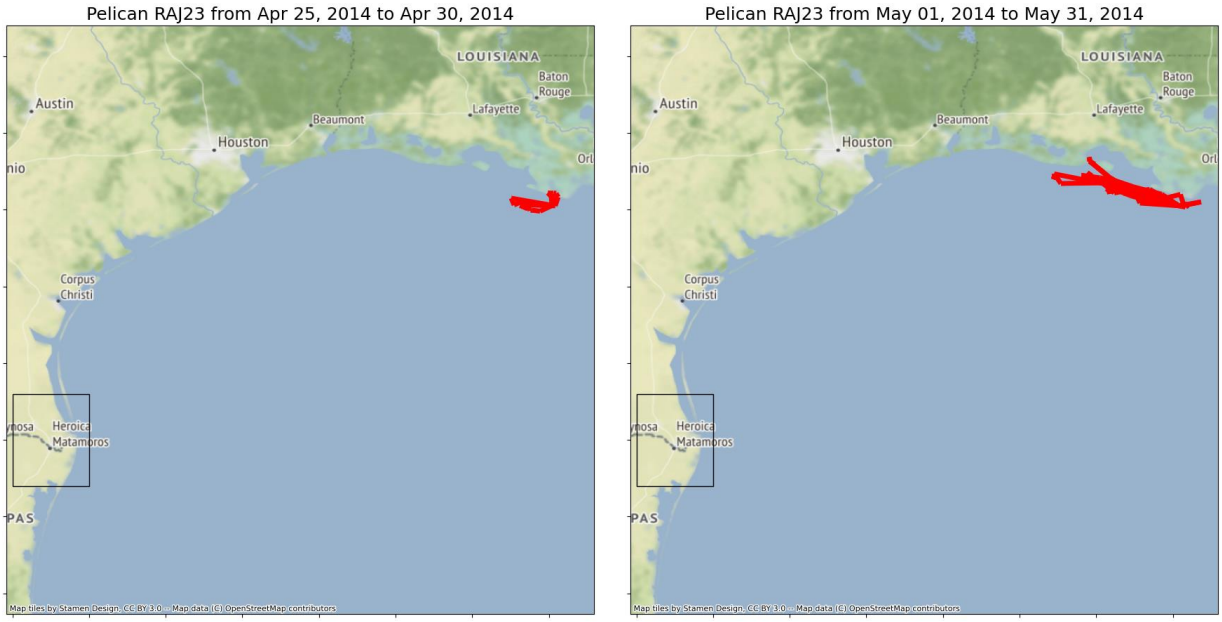


Figure 335 - Movements of RAJ23 between April 25, 2014 and May 31, 2014. Data from Lamb (2016)

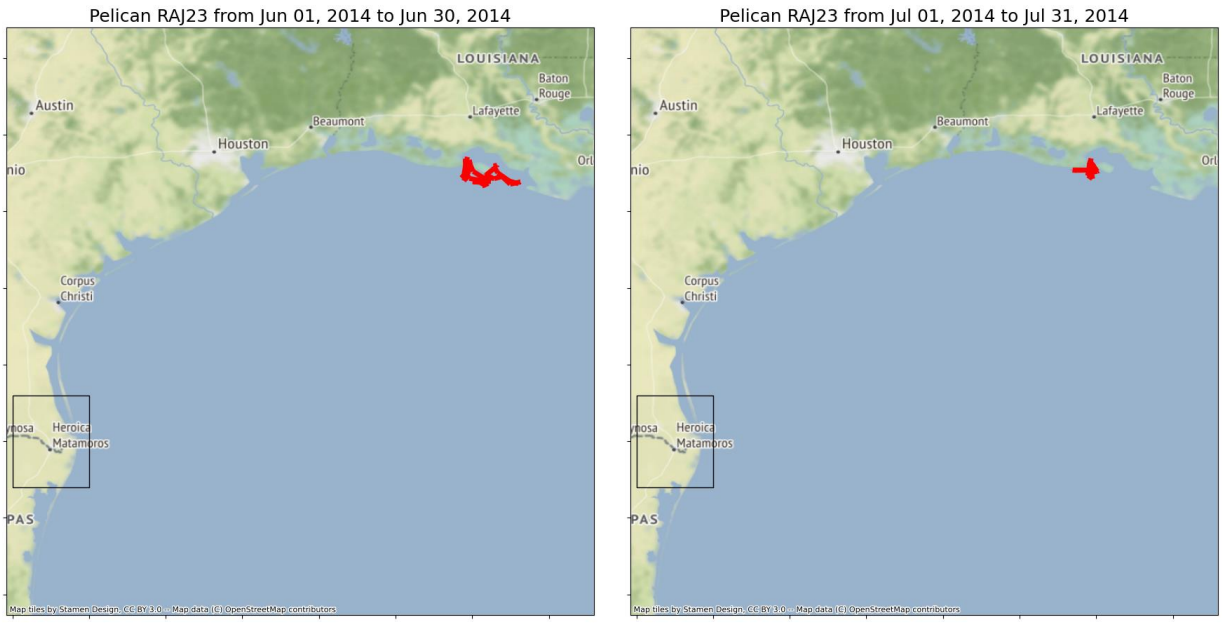


Figure 336 - Movements of RAJ23 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

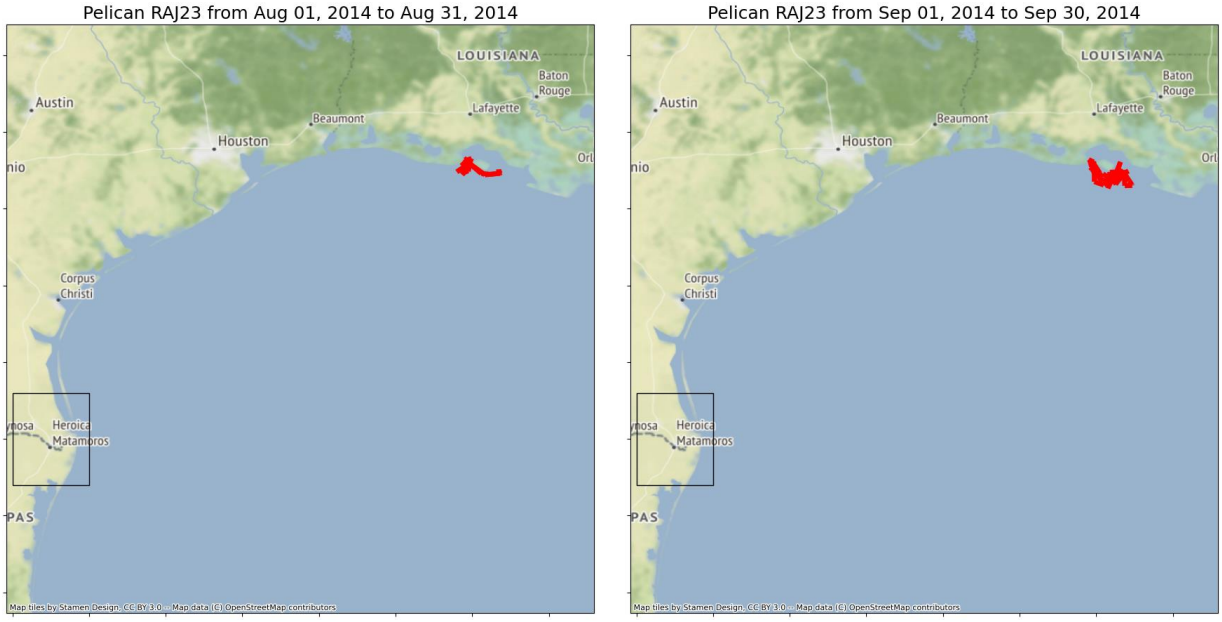
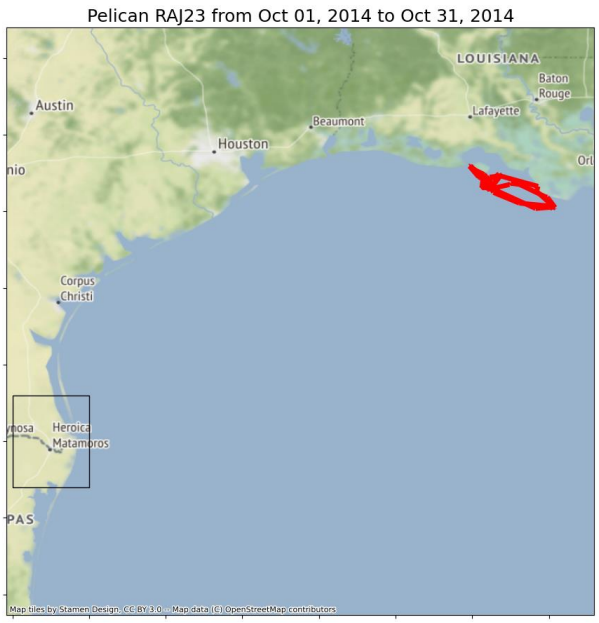


Figure 337 - Movements of RAJ23 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)



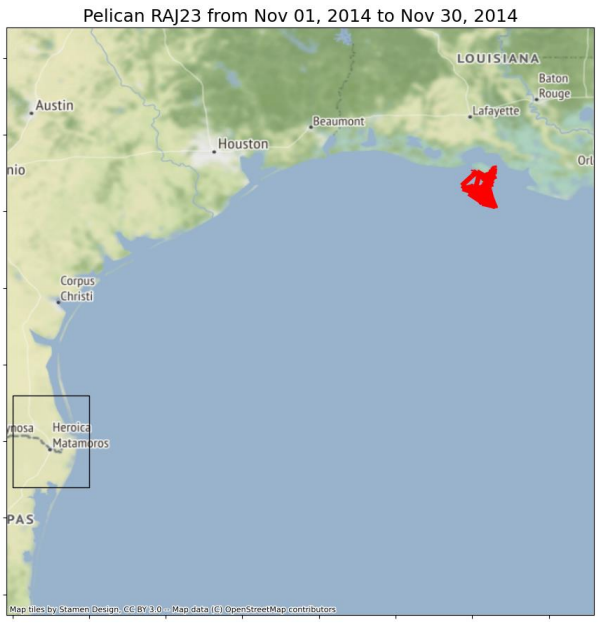
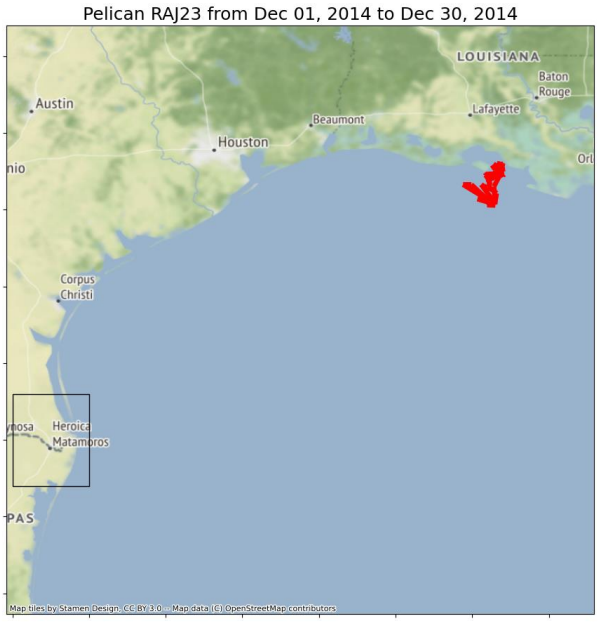


Figure 338 - Movements of RAJ23 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)



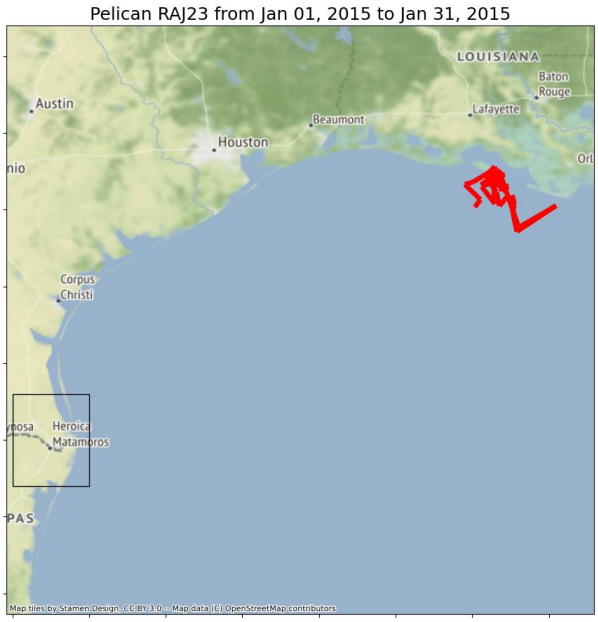


Figure 339 - Movements of RAJ23 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

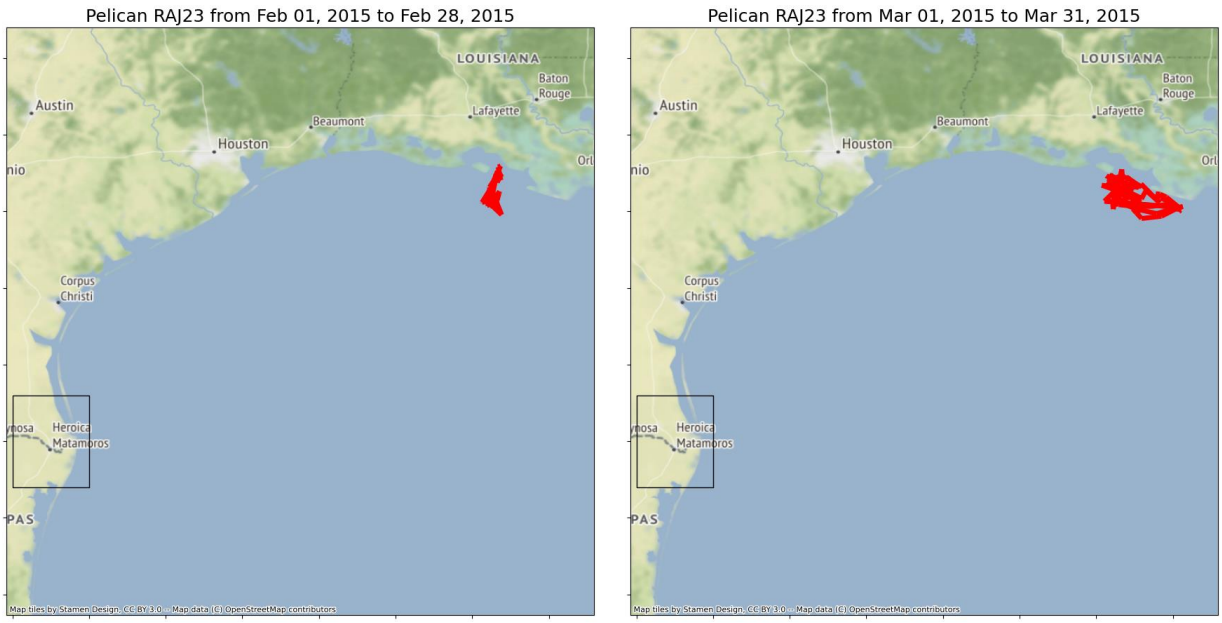


Figure 340 - Movements of RAJ23 between February 01, 2015 and March 31, 2015. Data from Lamb (2016)

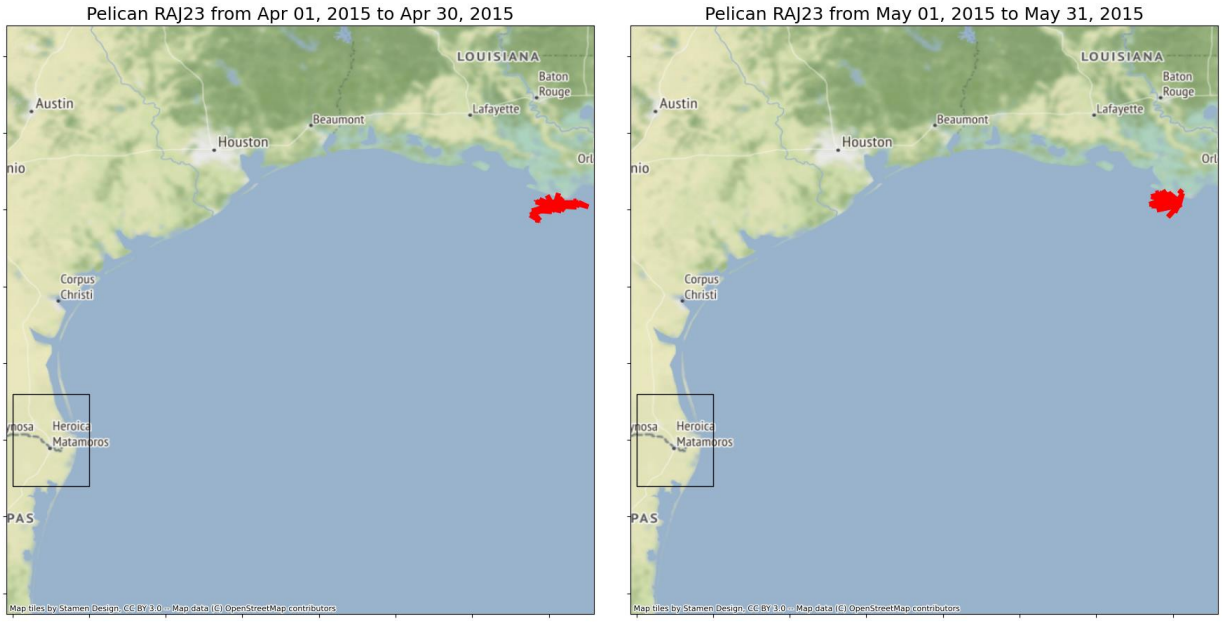


Figure 341 - Movements of RAJ23 between April 01, 2015 and May 31, 2015. Data from Lamb (2016)

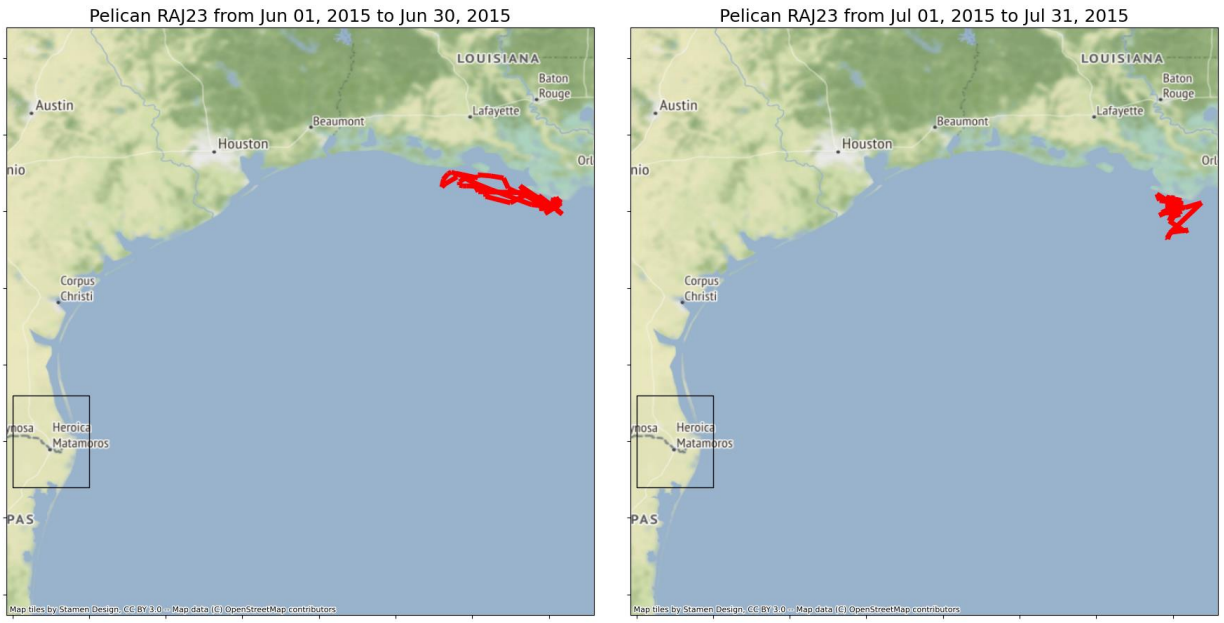


Figure 342 - Movements of RAJ23 between June 01, 2015 and July 31, 2015. Data from Lamb (2016)

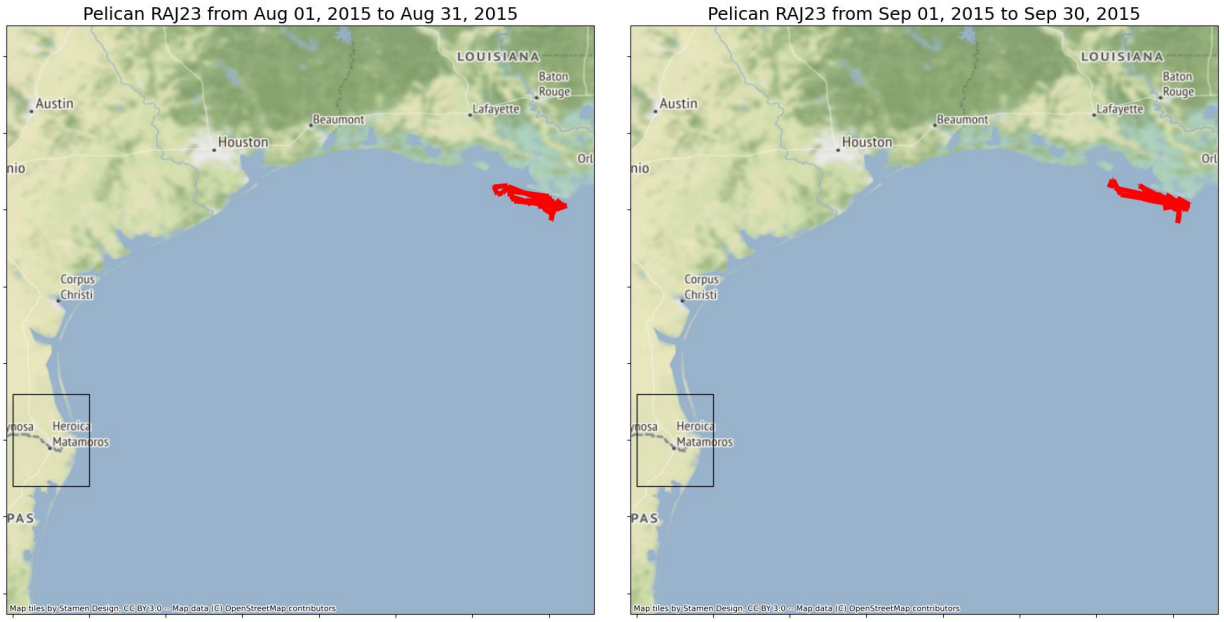


Figure 343 - Movements of RAJ23 between August 01, 2015 and September 30, 2015. Data from Lamb (2016)

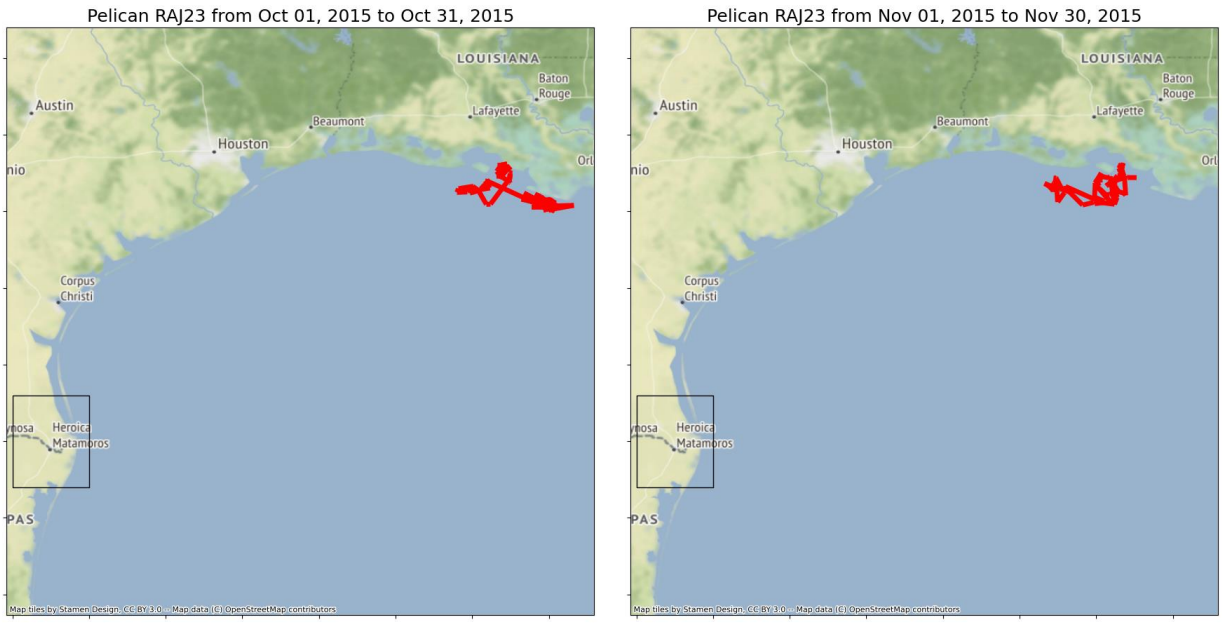


Figure 344 - Movements of RAJ23 between October 01, 2015 and November 30, 2015. Data from Lamb (2016)

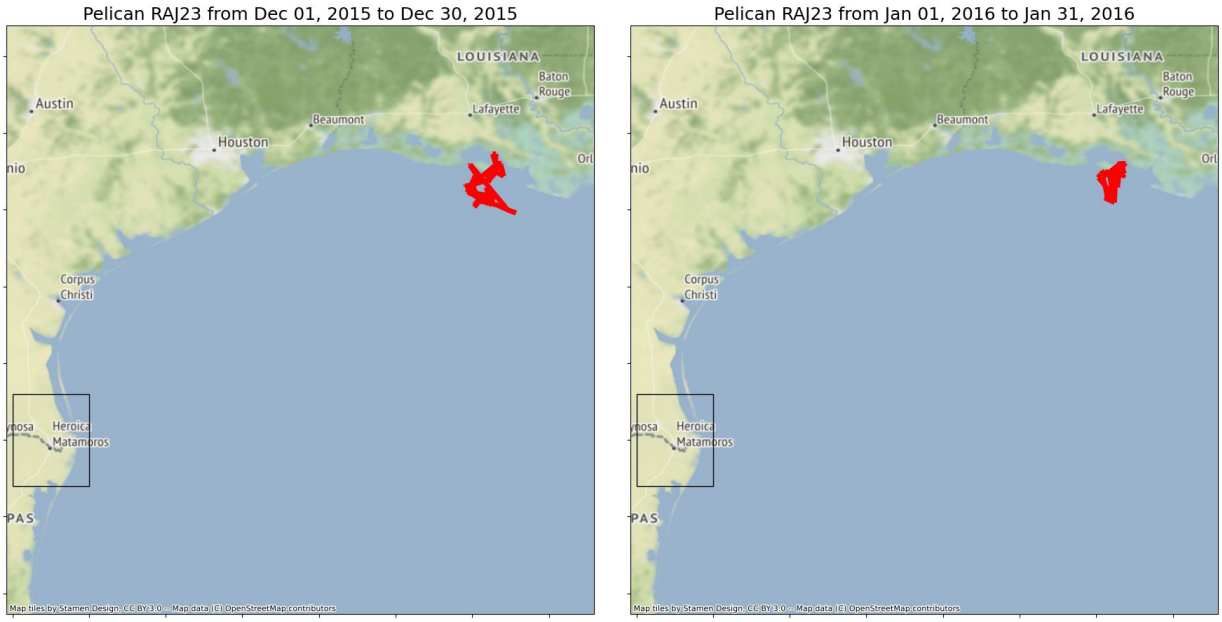


Figure 345 - Movements of RAJ23 between December 01, 2015 and January 31, 2016. Data from Lamb (2016)

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Pelican SH12 - Active from May 2013 to December 2013

Capture Date:	May 12, 2013
Capture Location:	Shamrock (Texas)
Sex:	M
Status:	incubating
Days Active:	226

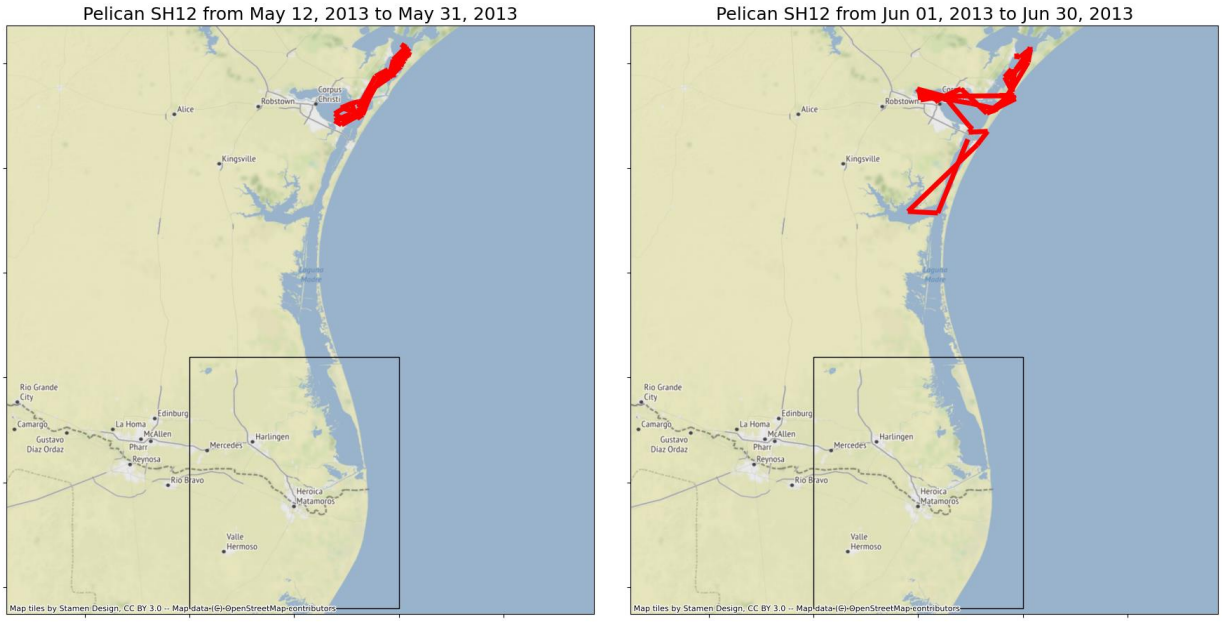

Figure 346 - Movements of SH12 between May 12, 2013 and June 30, 2013. Data from Lamb (2016)

Figure 347 - Movements of SH12 between July 01, 2013 and August 30, 2013. Data from Lamb (2016)

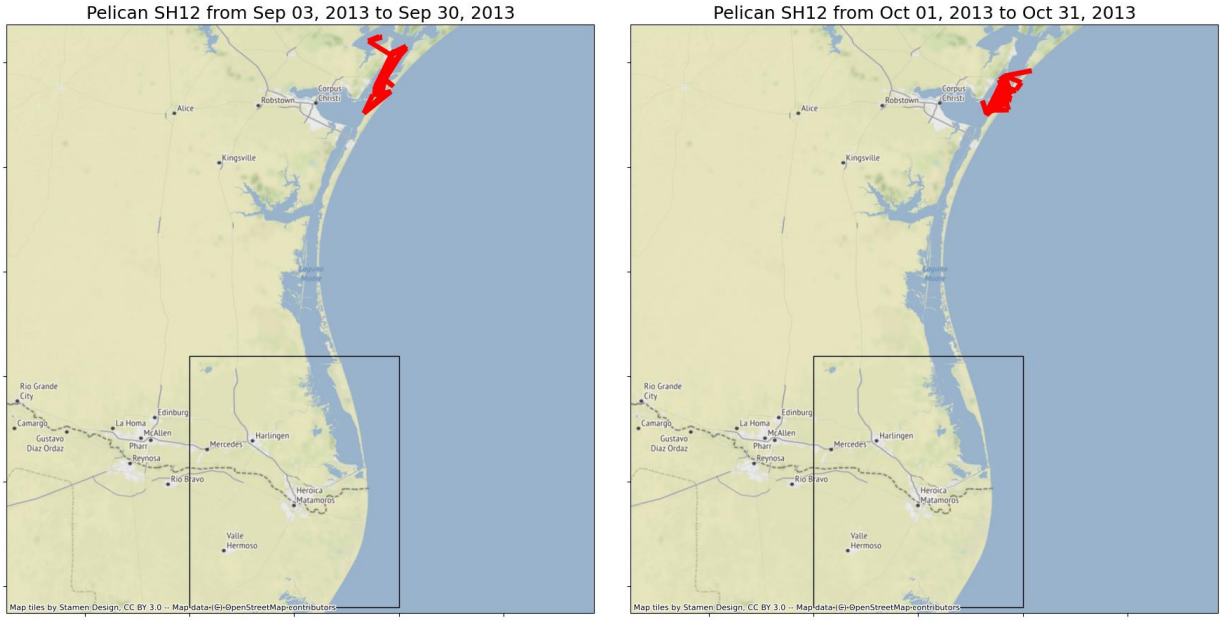

Figure 348 - Movements of SH12 between September 03, 2013 and October 31, 2013. Data from Lamb (2016)

Figure 349 - Movements of SH12 between November 01, 2013 and November 30, 2013. Data from Lamb (2016)

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Pelican SH13 - Active from May 2013 to July 2013

Capture Date: May 12, 2013
Capture Location: Shamrock (Texas)
Sex: F
Status: incubating
Days Active: 68

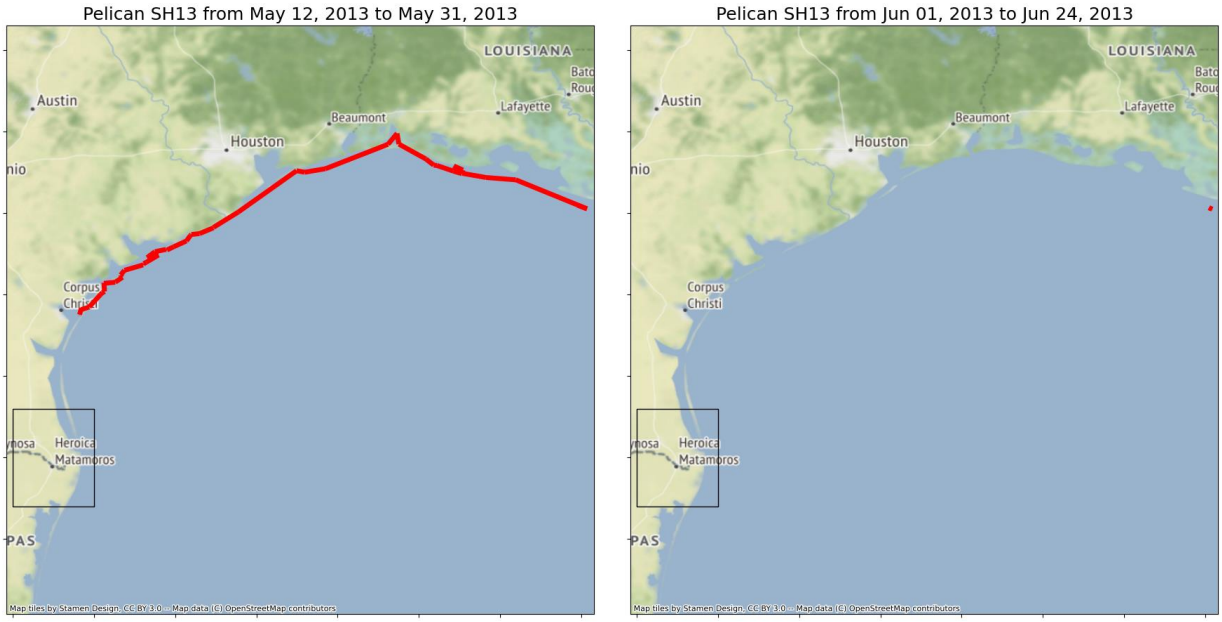

Figure 350 - Movements of SH13 between May 12, 2013 and June 24, 2013. Data from Lamb (2016)

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Pelican SH14 - Active from May 2013 to December 2013

Capture Date:	May 12, 2013
Capture Location:	Shamrock (Texas)
Sex:	M
Status:	incubating
Days Active:	209

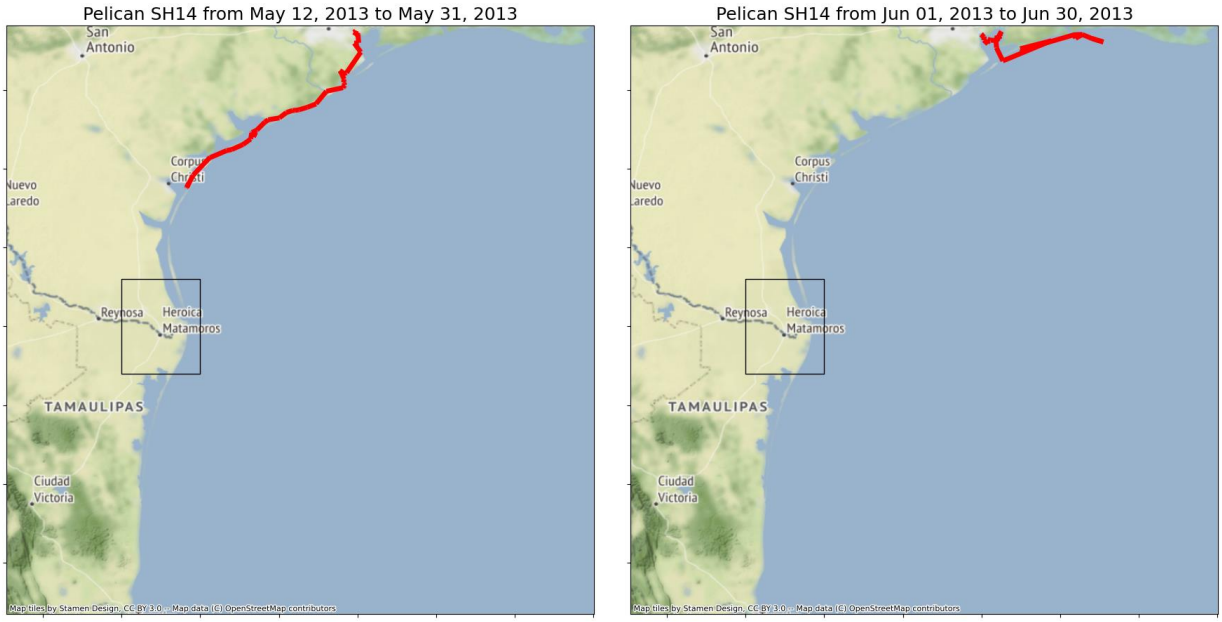

Figure 351 - Movements of SH14 between May 12, 2013 and June 30, 2013. Data from Lamb (2016)

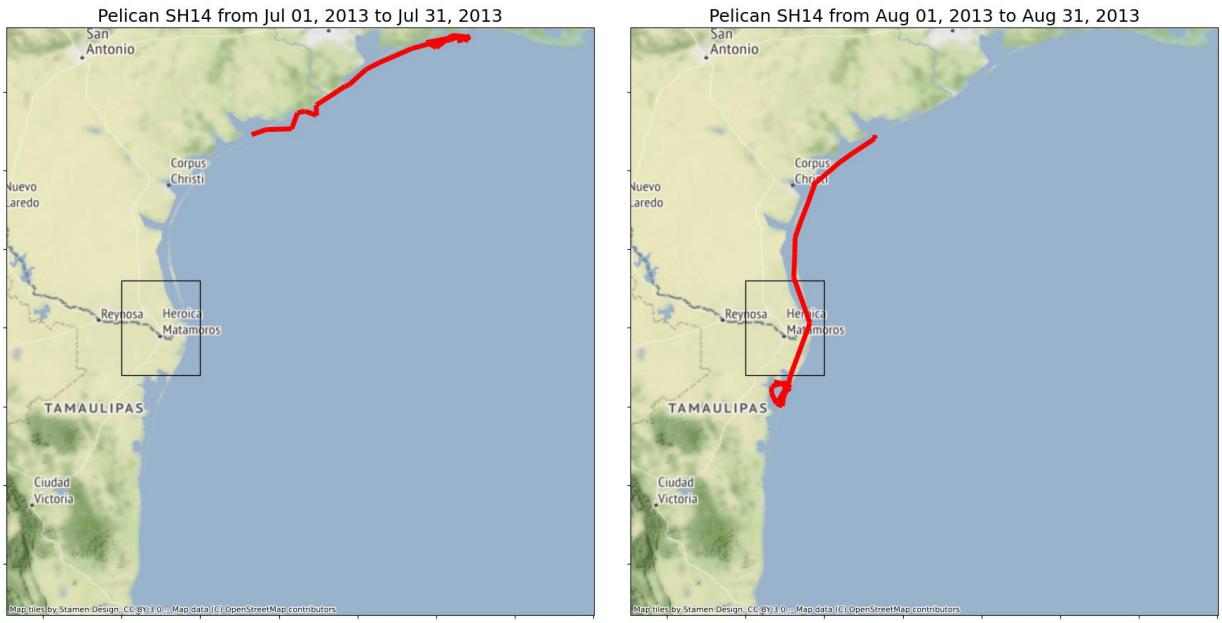

Figure 352 - Movements of SH14 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

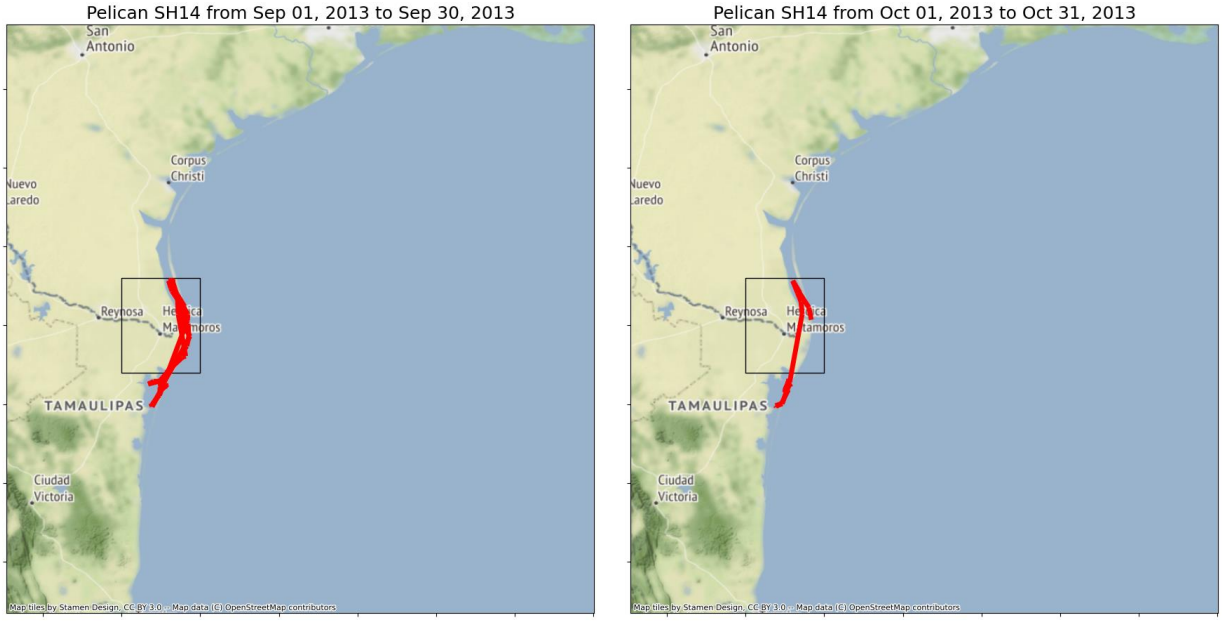

Figure 353 - Movements of SH14 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

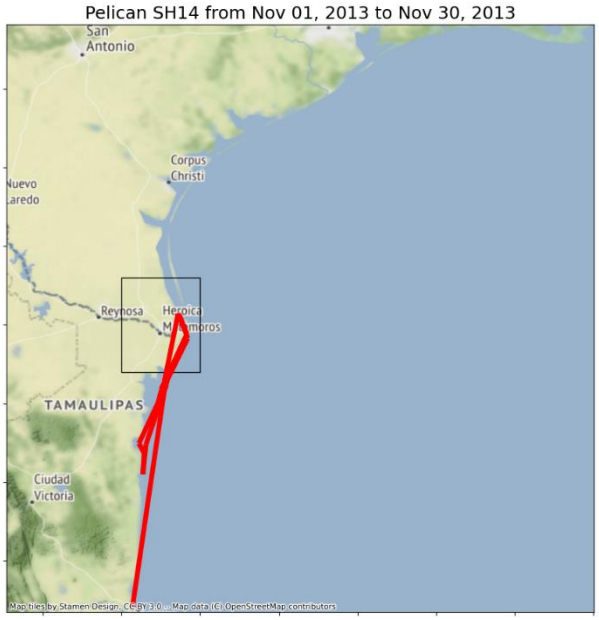

Figure 354 - Movements of SH14 between November 01, 2013 and November 30, 2013. Data from Lamb (2016)

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Pelican SH15 - Active from May 2013 to June 2013

Capture Date: May 13, 2013
Capture Location: Shamrock (Texas)
Sex: M
Status: incubating
Days Active: 21

Figure 355 - Movements of SH15 between May 13, 2013 and May 31, 2013. Data from Lamb (2016)

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Pelican SH16 - Active from May 2013 to April 2014

Capture Date:	May 13, 2013
Capture Location:	Shamrock (Texas)
Sex:	M
Status:	incubating
Days Active:	326

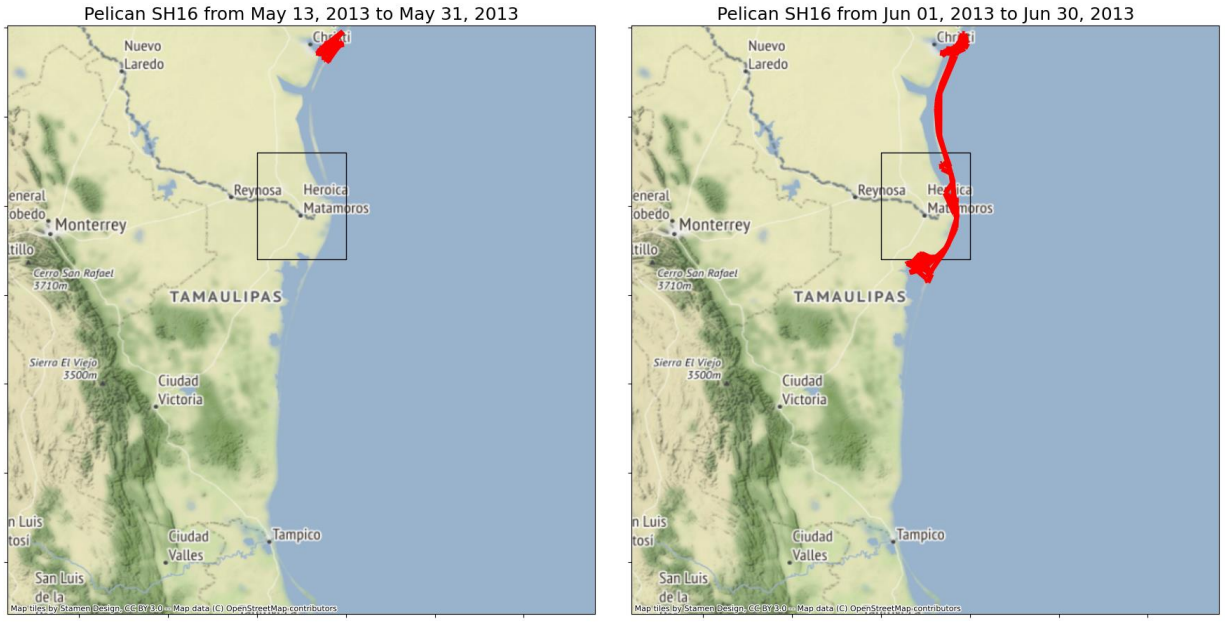

Figure 356 - Movements of SH16 between May 13, 2013 and June 30, 2013. Data from Lamb (2016)

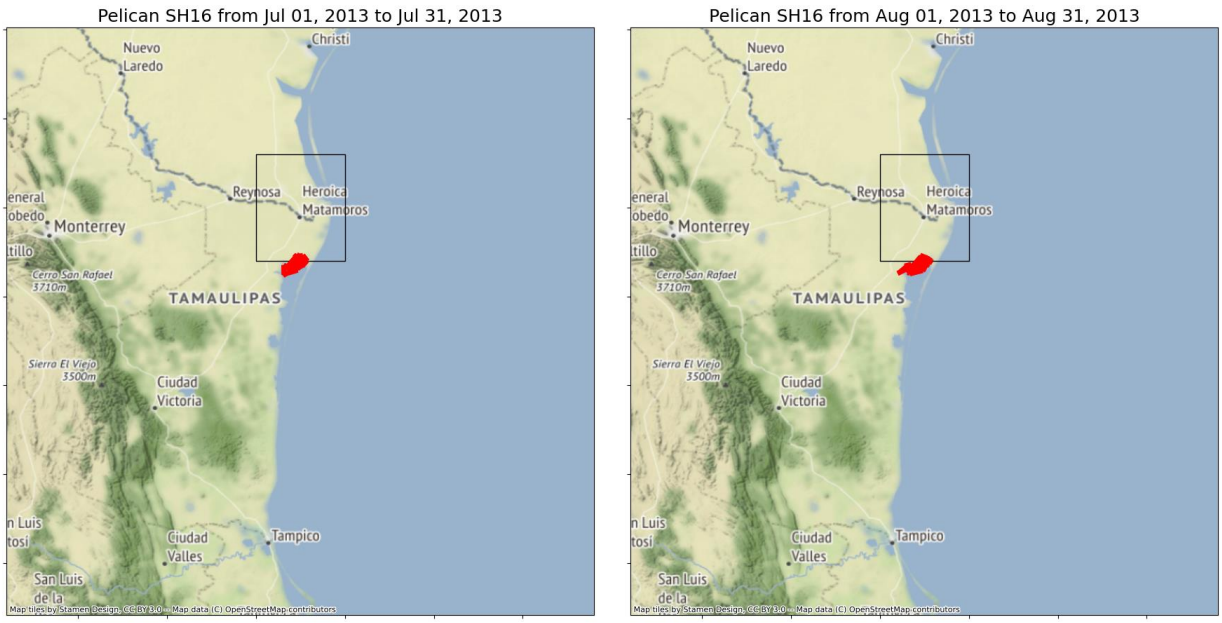

Figure 357 - Movements of SH16 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

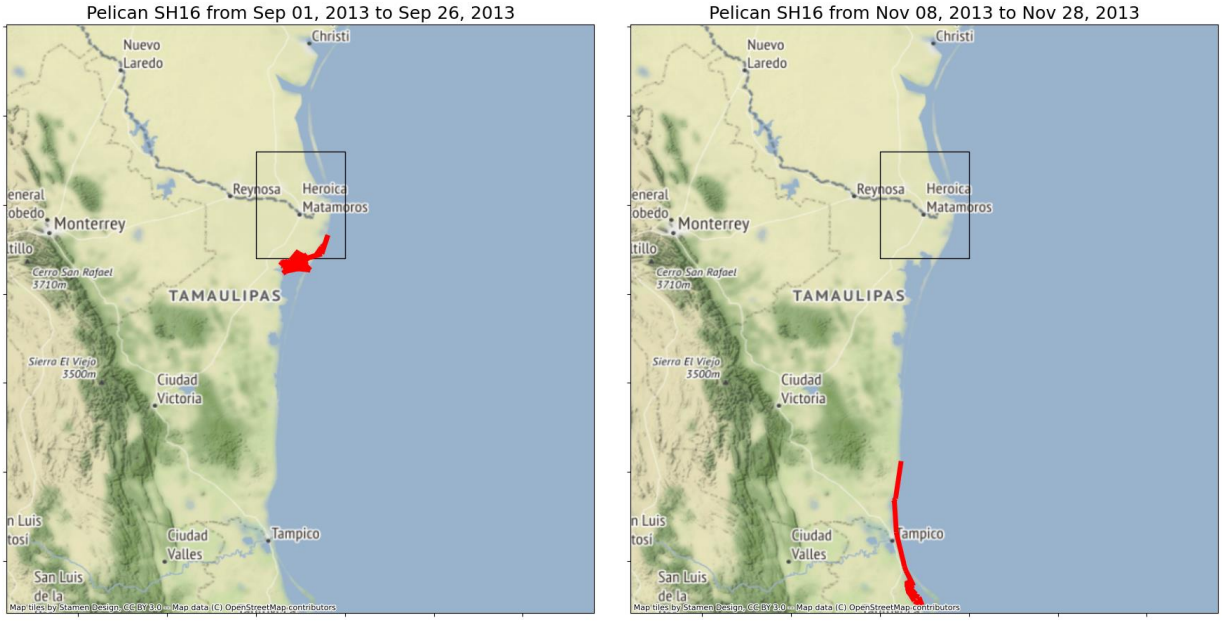

Figure 358 - Movements of SH16 between September 01, 2013 and November 28, 2013. Data from Lamb (2016)

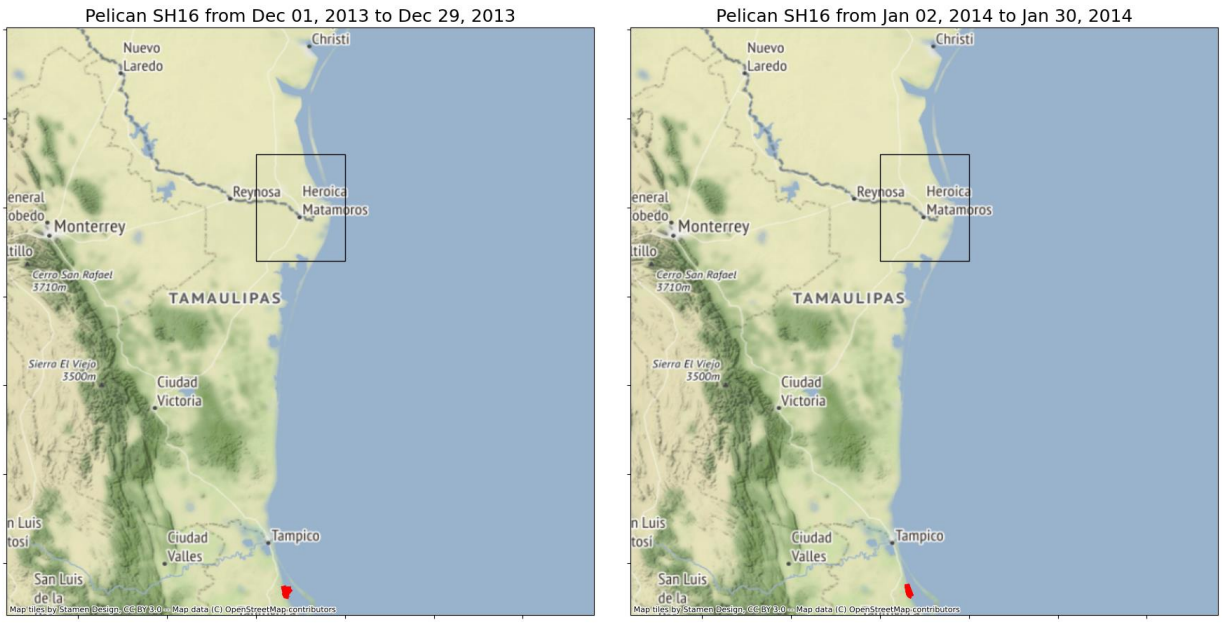

Figure 359 - Movements of SH16 between December 01, 2013 and January 31, 2014. Data from Lamb (2016)

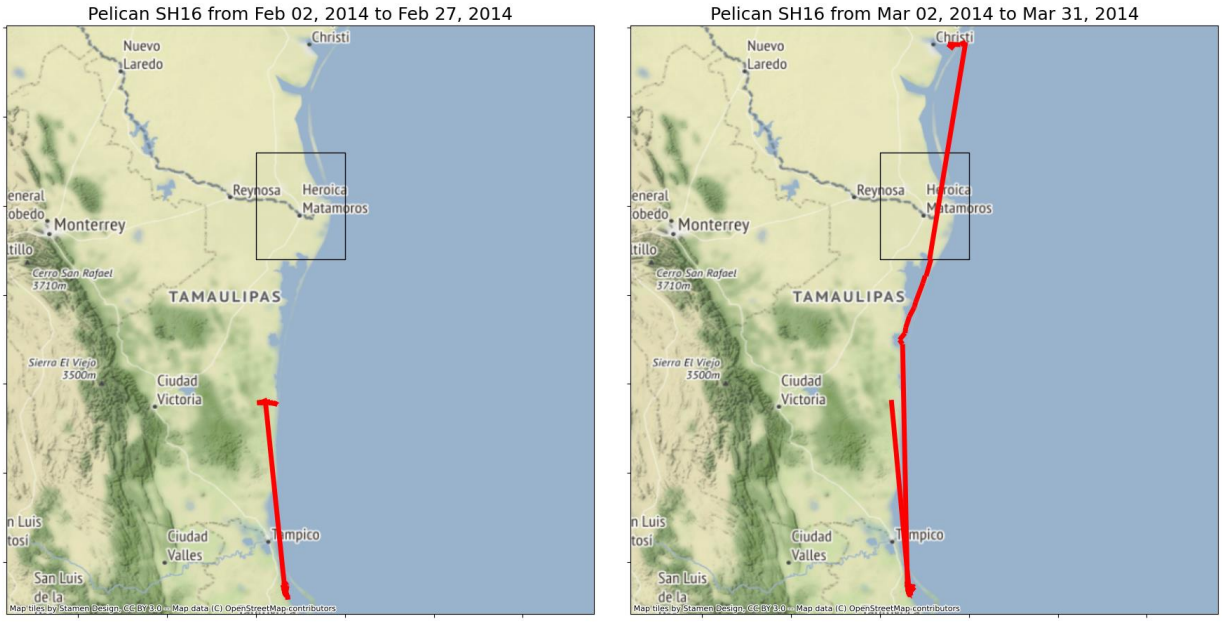

Figure 360 - Movements of SH16 between February 02, 2014 and March 31, 2014. Data from Lamb (2016)

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Pelican SH17 - Active from May 2013 to August 2013

Capture Date: May 13, 2013
Capture Location: Shamrock (Texas)
Sex: F
Status: incubating
Days Active: 91

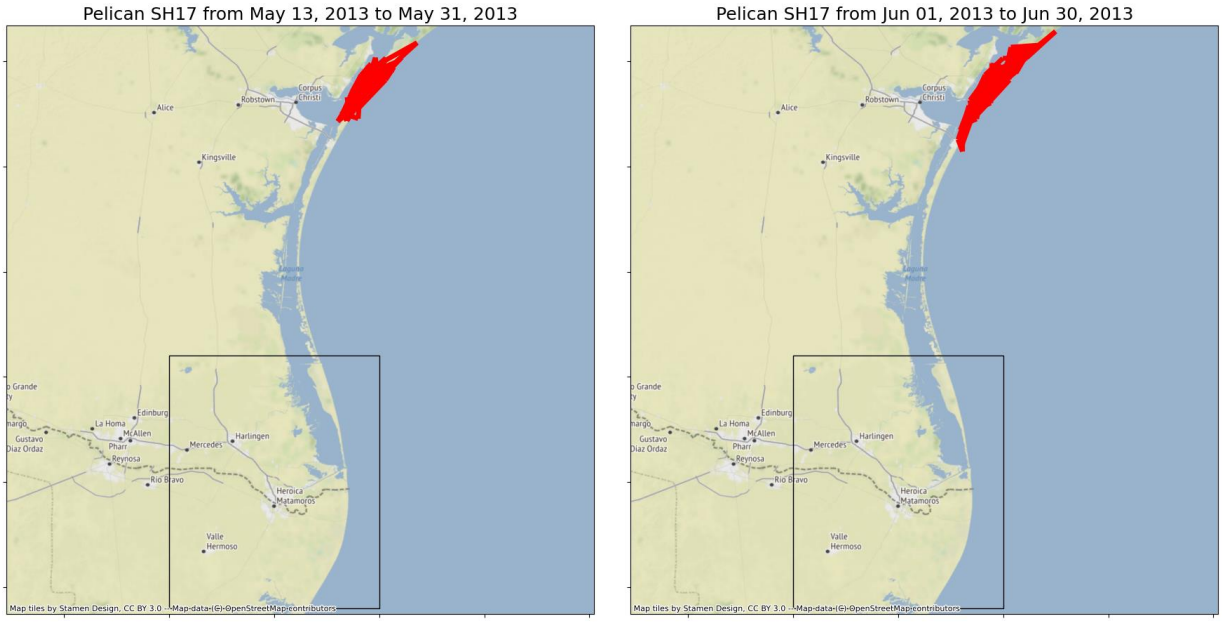

Figure 361 - Movements of SH17 between May 13, 2013 and June 30, 2013. Data from Lamb (2016)

Figure 362 - Movements of SH17 between July 01, 2013 and July 30, 2013. Data from Lamb (2016)

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Pelican SH27 - Active from May 2013 to January 2014

Capture Date:	May 26, 2013
Capture Location:	Shamrock (Texas)
Sex:	M
Status:	incubating
Days Active:	245

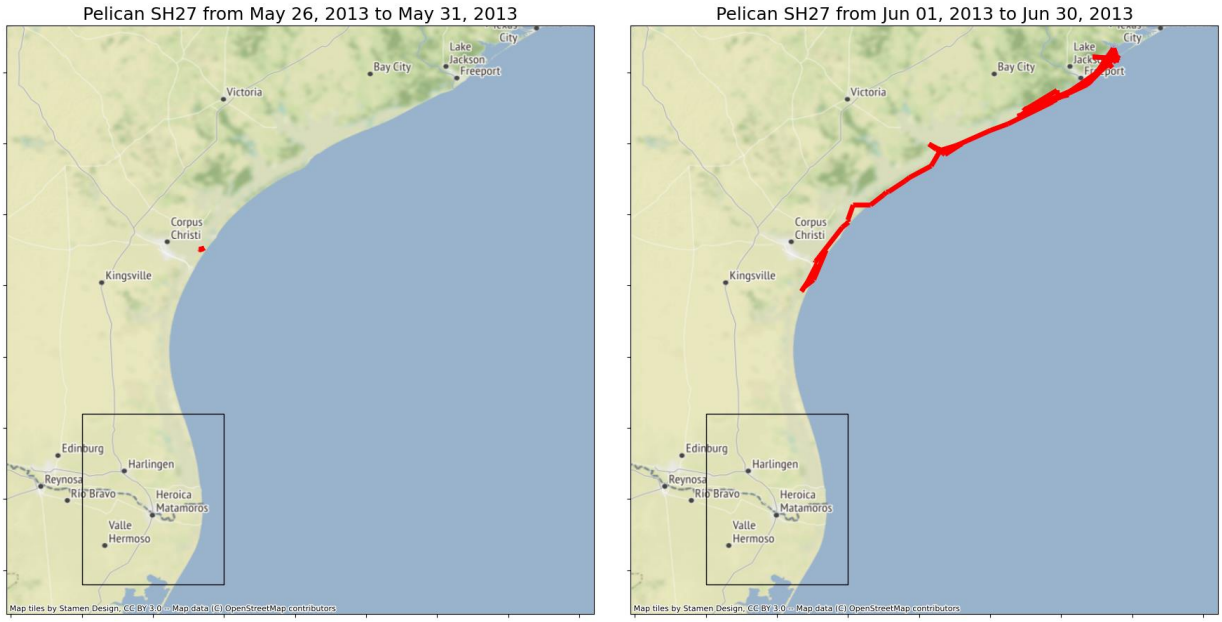

Figure 363 - Movements of SH27 between May 26, 2013 and June 30, 2013. Data from Lamb (2016)

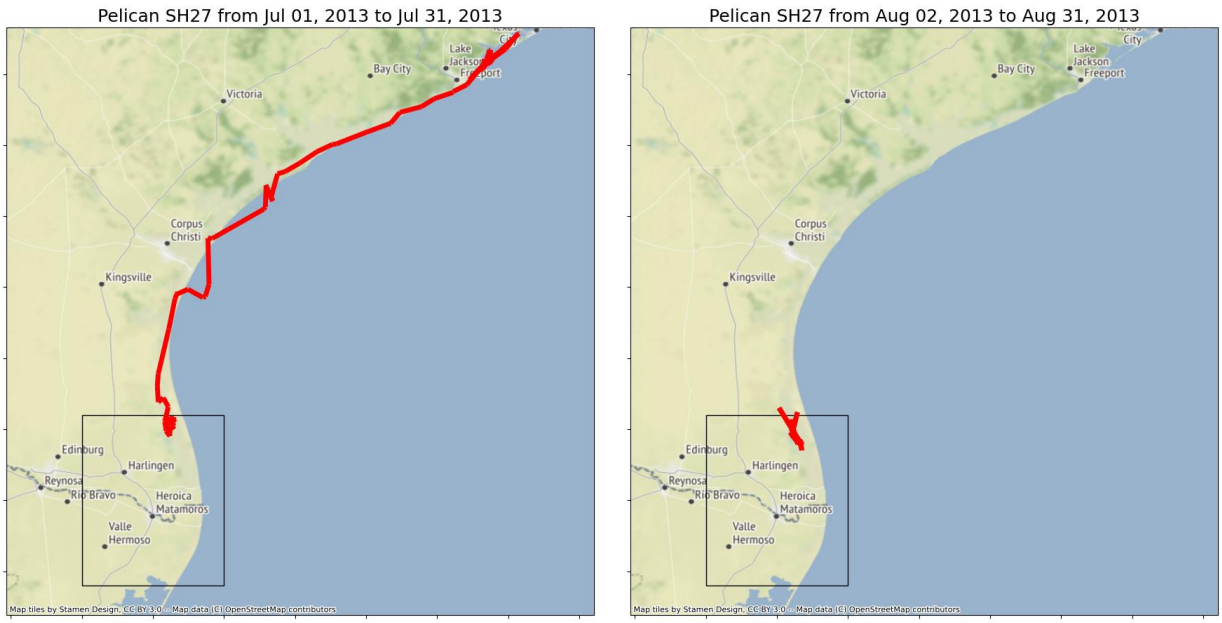

Figure 364 - Movements of SH27 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

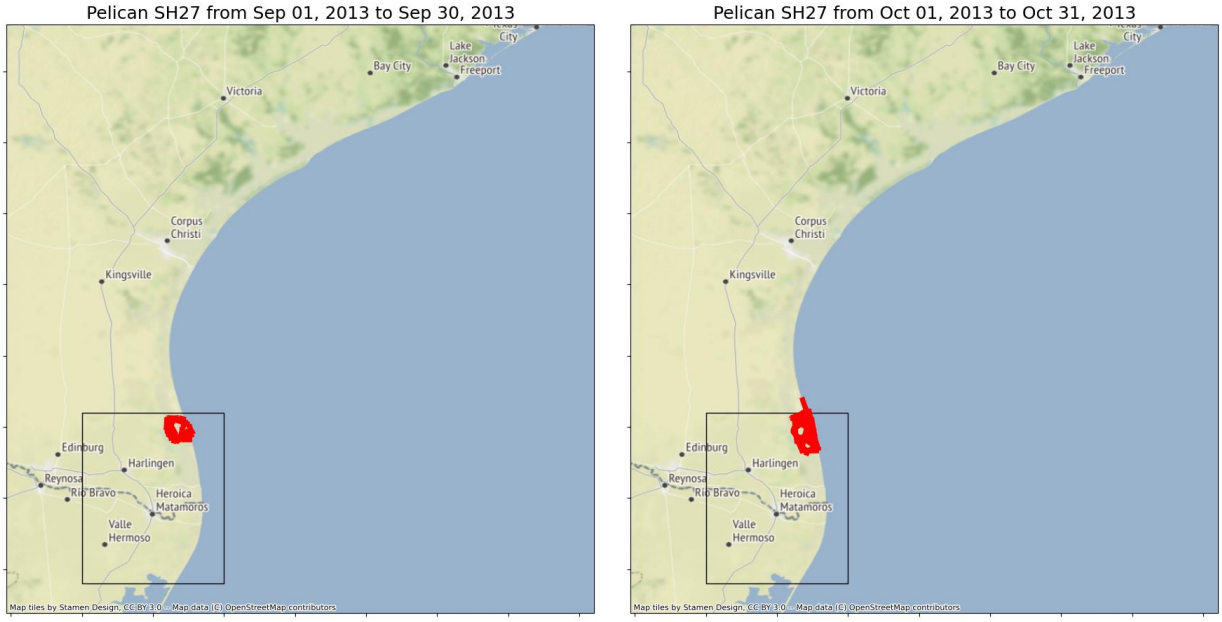

Figure 365 - Movements of SH27 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

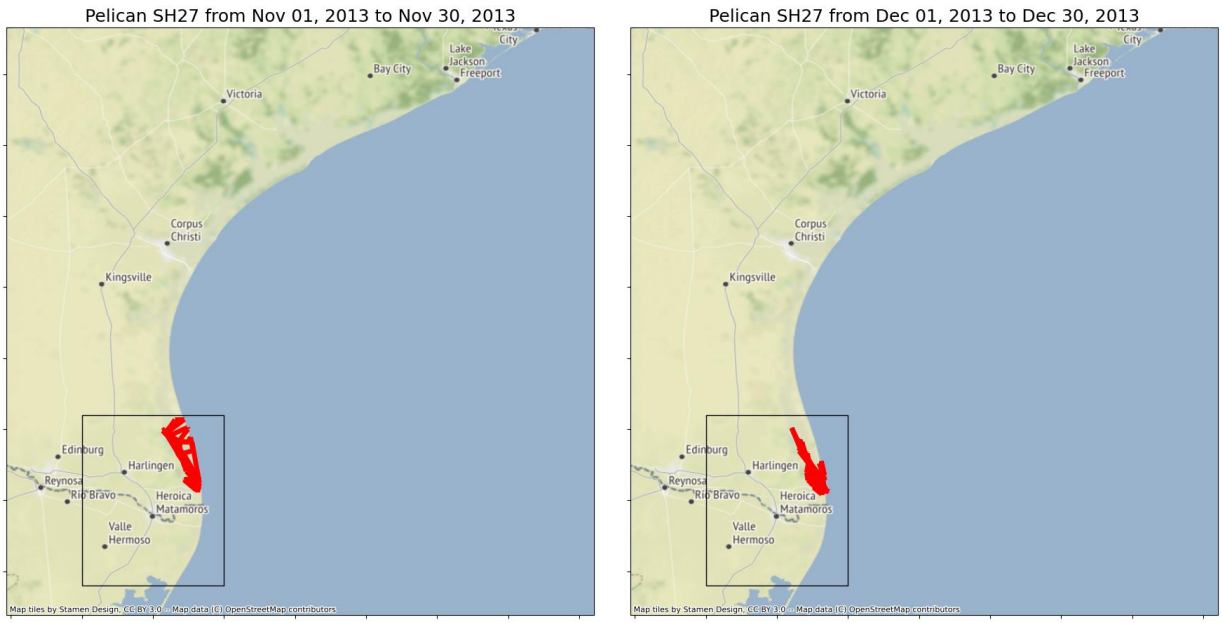

Figure 366 - Movements of SH27 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

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Pelican SH28 - Active from May 2013 to January 2014

Capture Date:	May 26, 2013
Capture Location:	Shamrock (Texas)
Sex:	M
Status:	incubating
Days Active:	222

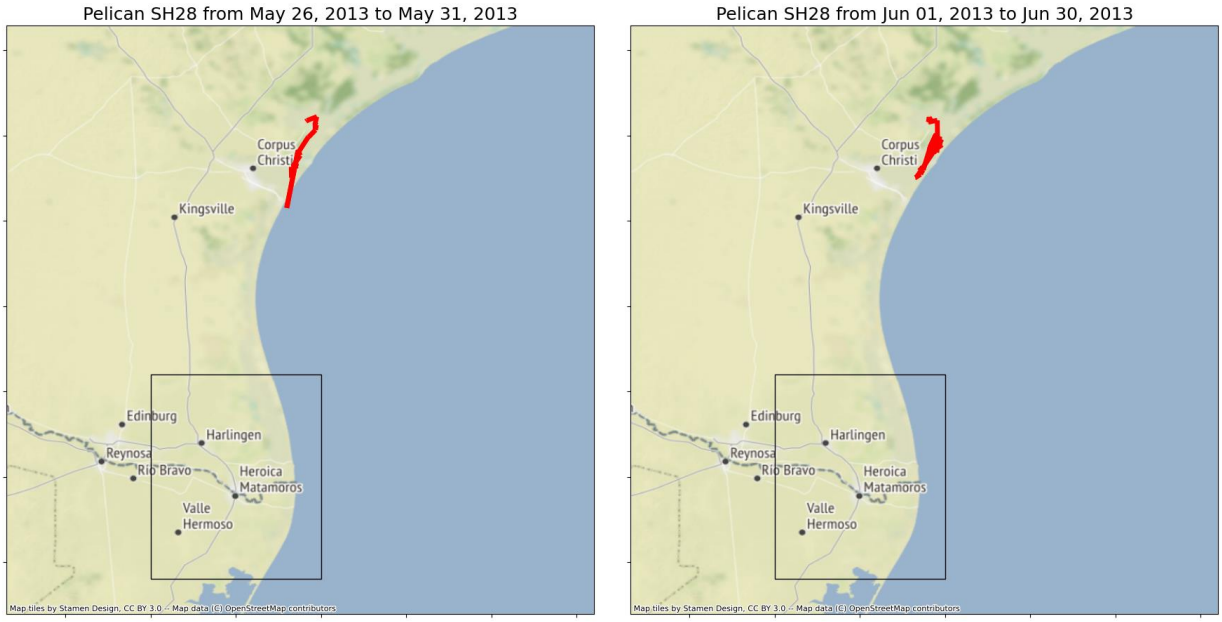

Figure 367 - Movements of SH28 between May 26, 2013 and June 30, 2013. Data from Lamb (2016)

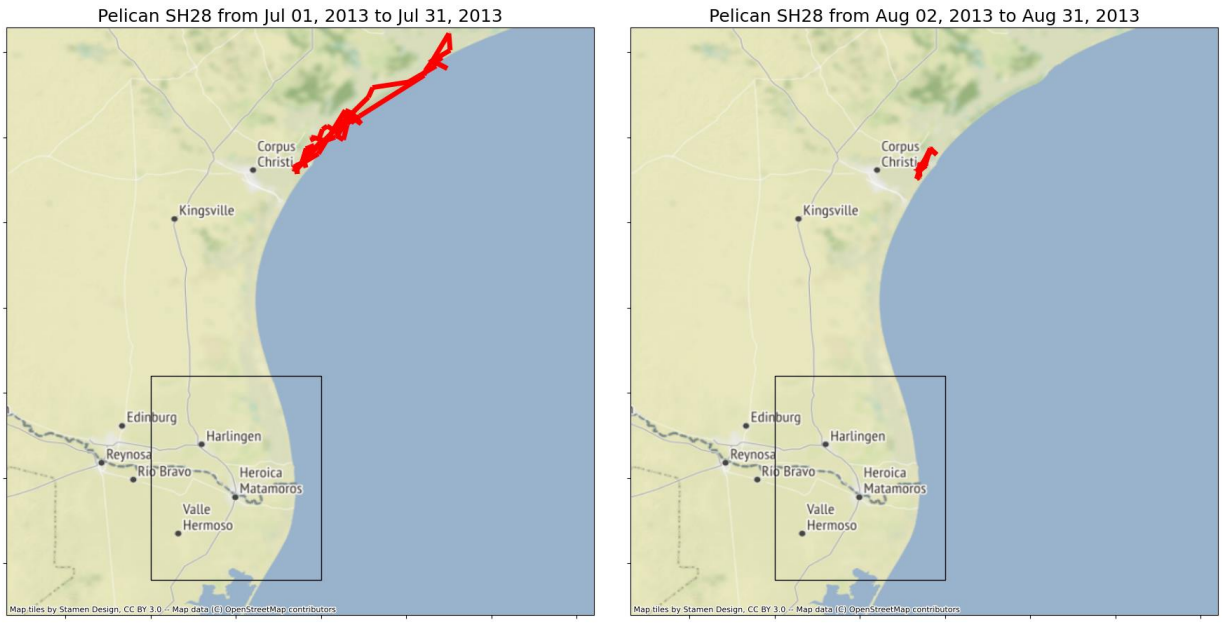

Figure 368 - Movements of SH28 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

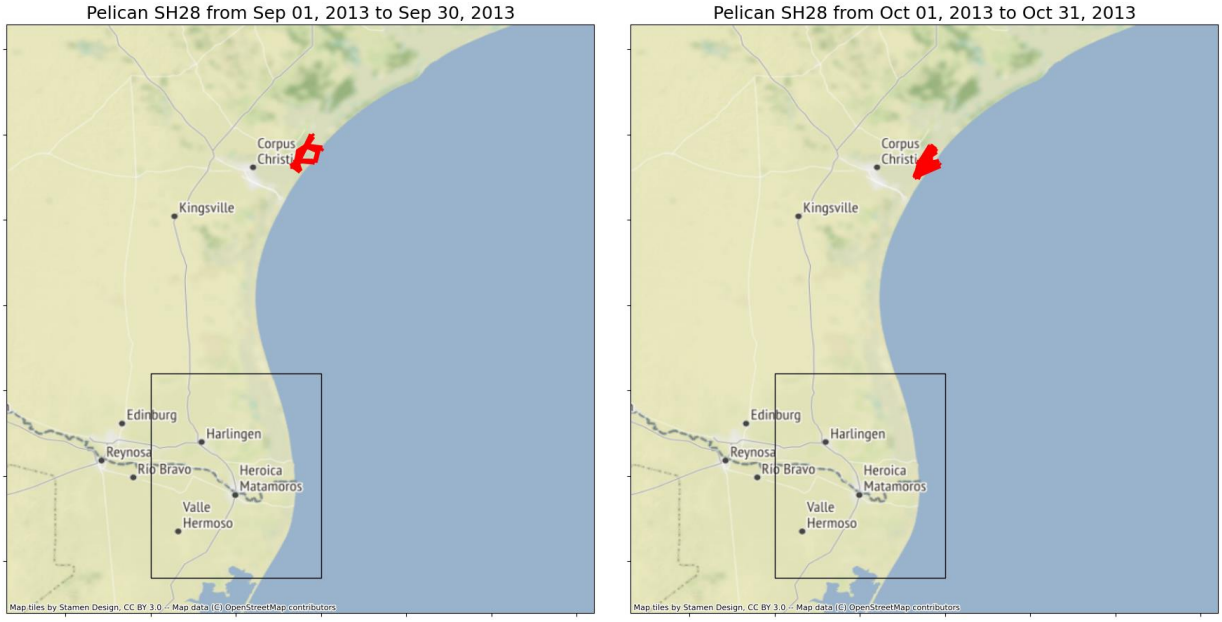

Figure 369 - Movements of SH28 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

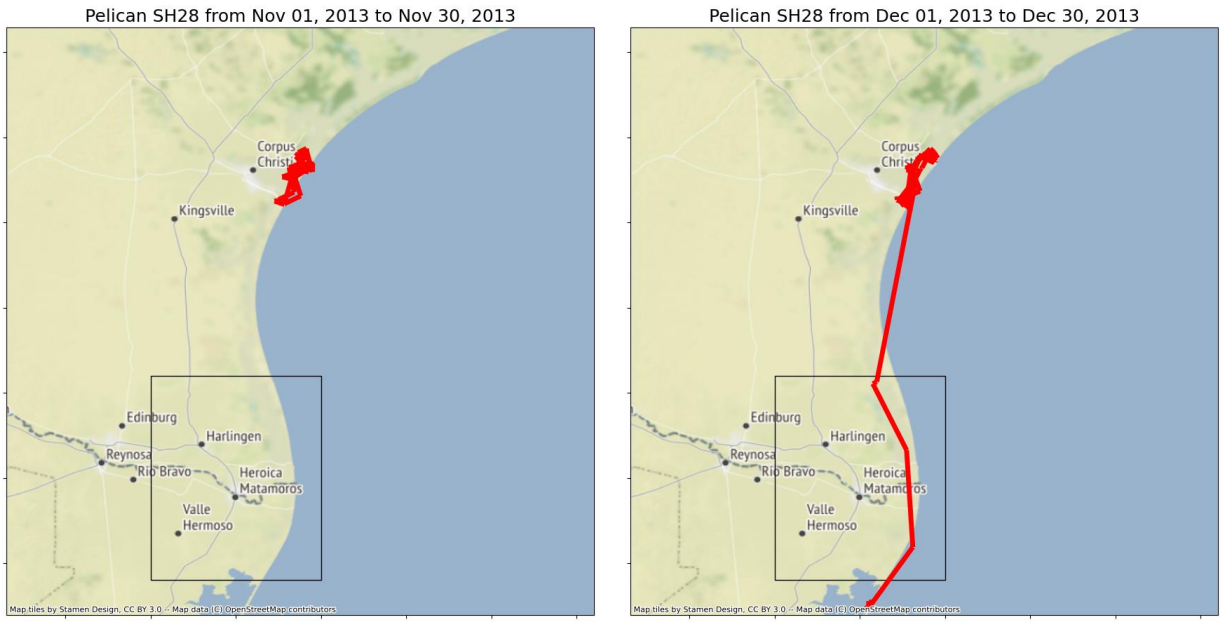

Figure 370 - Movements of SH28 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

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Pelican SH29 - Active from May 2013 to December 2013

Capture Date: May 26, 2013
Capture Location: Shamrock (Texas)
Sex: M
Status: incubating
Days Active: 212

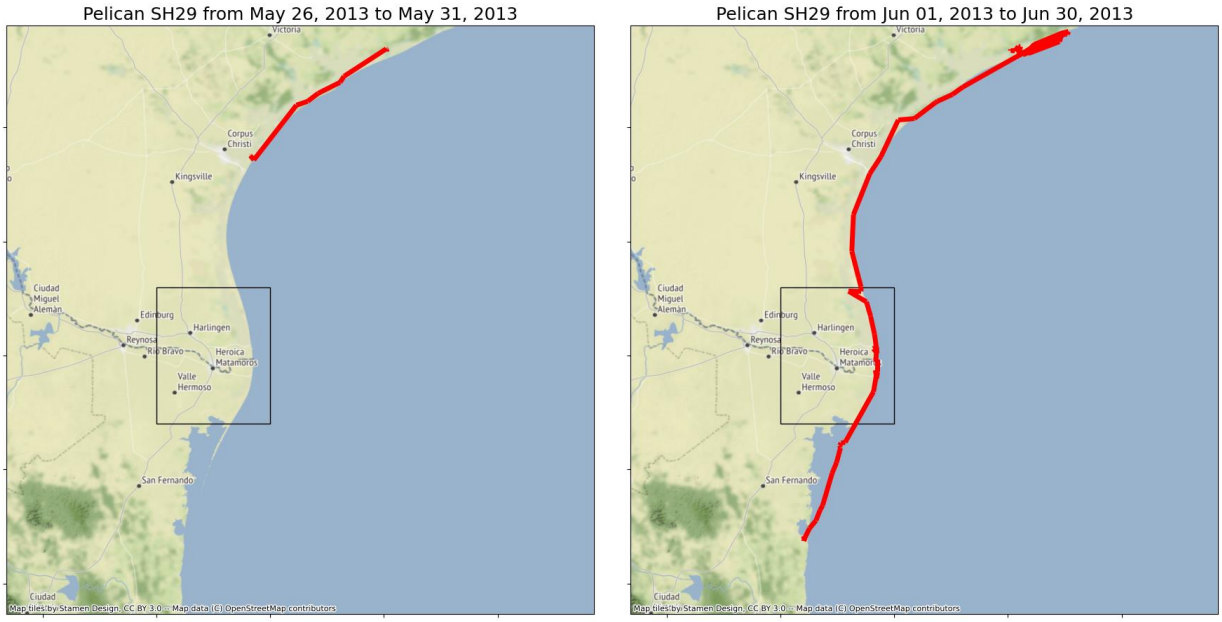
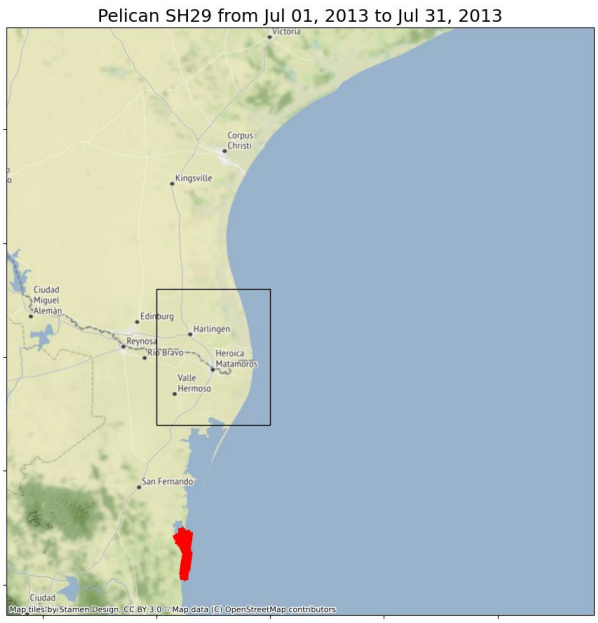


Figure 371 - Movements of SH29 between May 26, 2013 and June 30, 2013. Data from Lamb (2016)



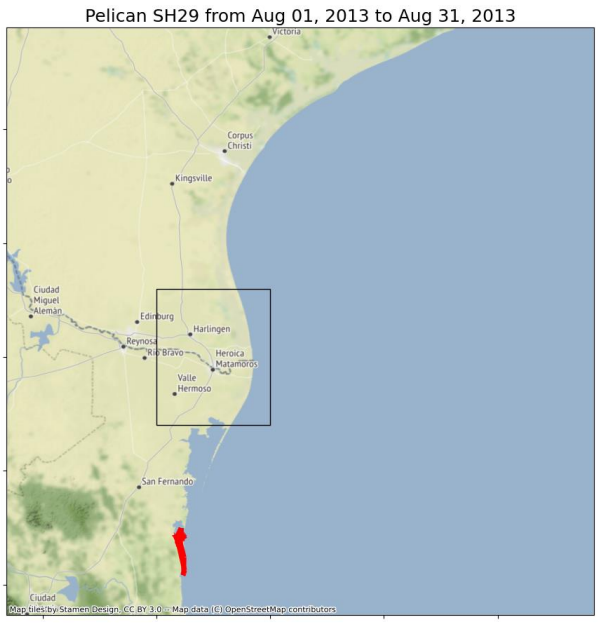
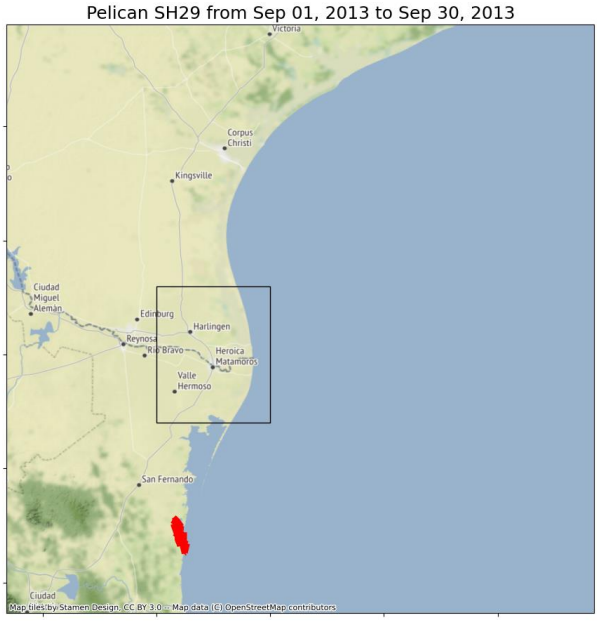


Figure 372 - Movements of SH29 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)



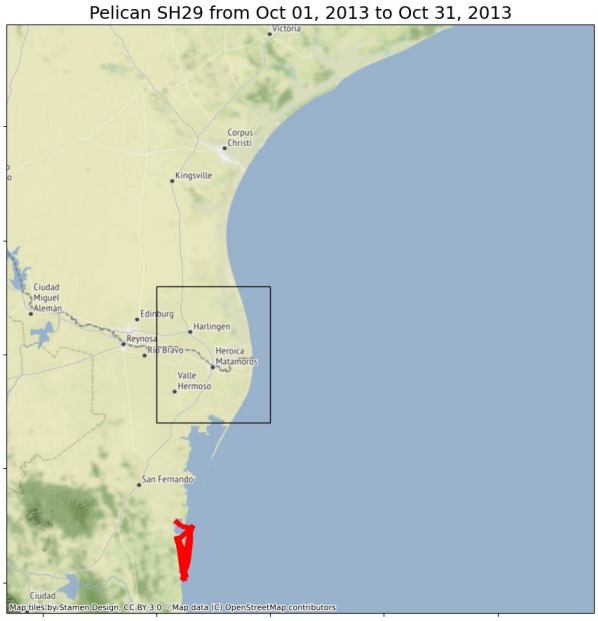


Figure 373 - Movements of SH29 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

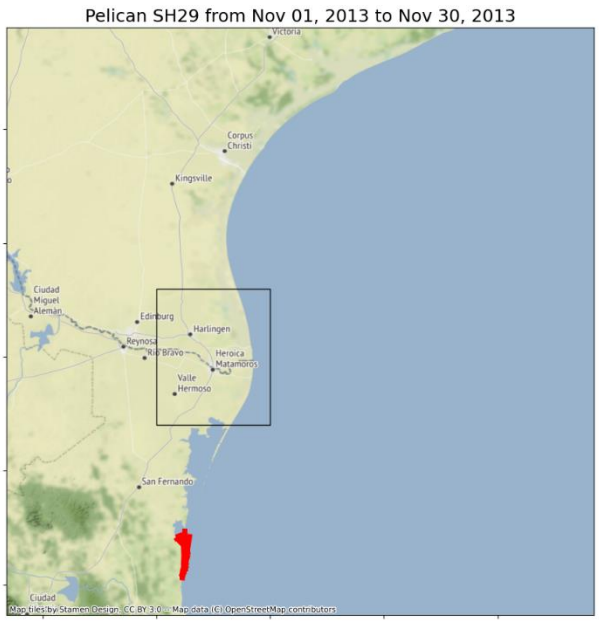


Figure 374 - Movements of SH29 between November 01, 2013 and November 30, 2013. Data from Lamb (2016)

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Pelican SH52 - Active from June 2013 to July 2013

Capture Date: June 28, 2013
Capture Location: Shamrock (Texas)
Sex: M
Status: incubating
Days Active: 5

Figure 375 - Movements of SH52 between June 28, 2013 and June 30, 2013. Data from Lamb (2016)

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Pelican SH83 - Active from May 2014 to November 2014

Capture Date:	May 29, 2014
Capture Location:	Shamrock (Texas)
Sex:	F
Status:	rearing chick
Days Active:	166

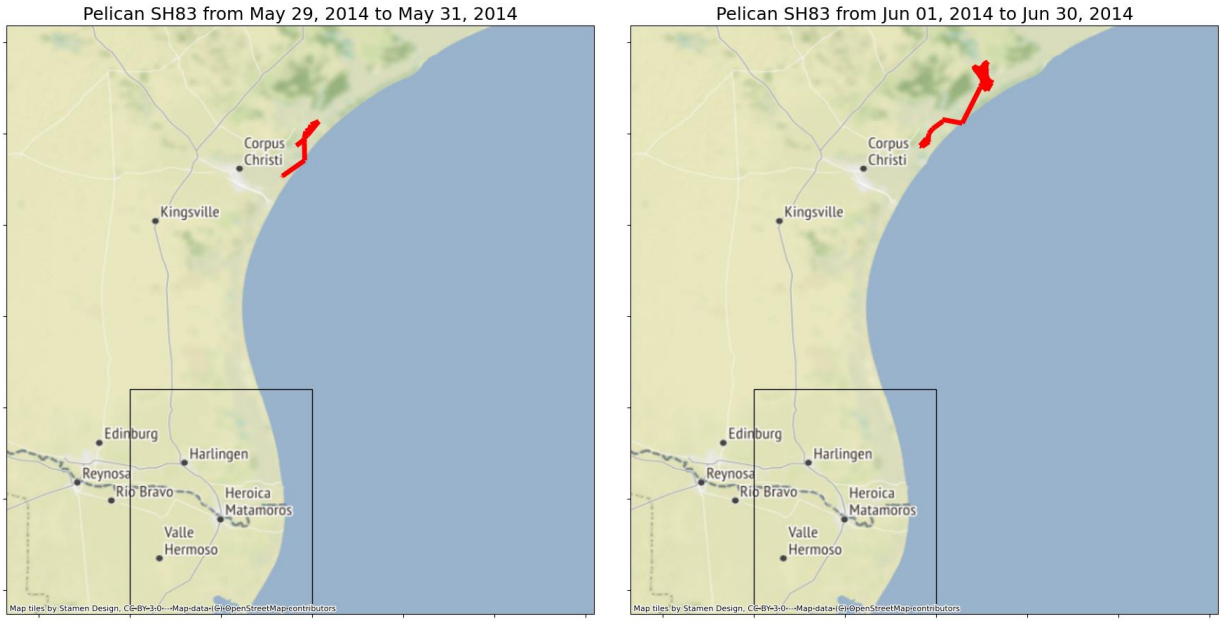

Figure 376 - Movements of SH83 between May 29, 2014 and June 30, 2014. Data from Lamb (2016)

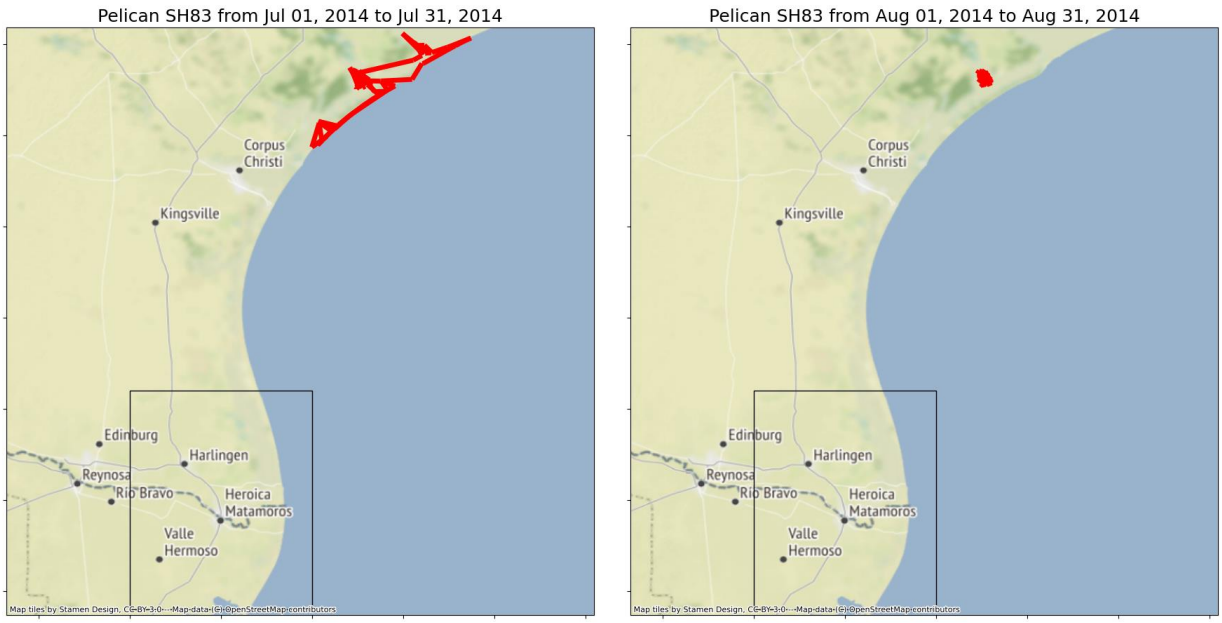

Figure 377 - Movements of SH83 between July 01, 2014 and August 31, 2014. Data from Lamb (2016)

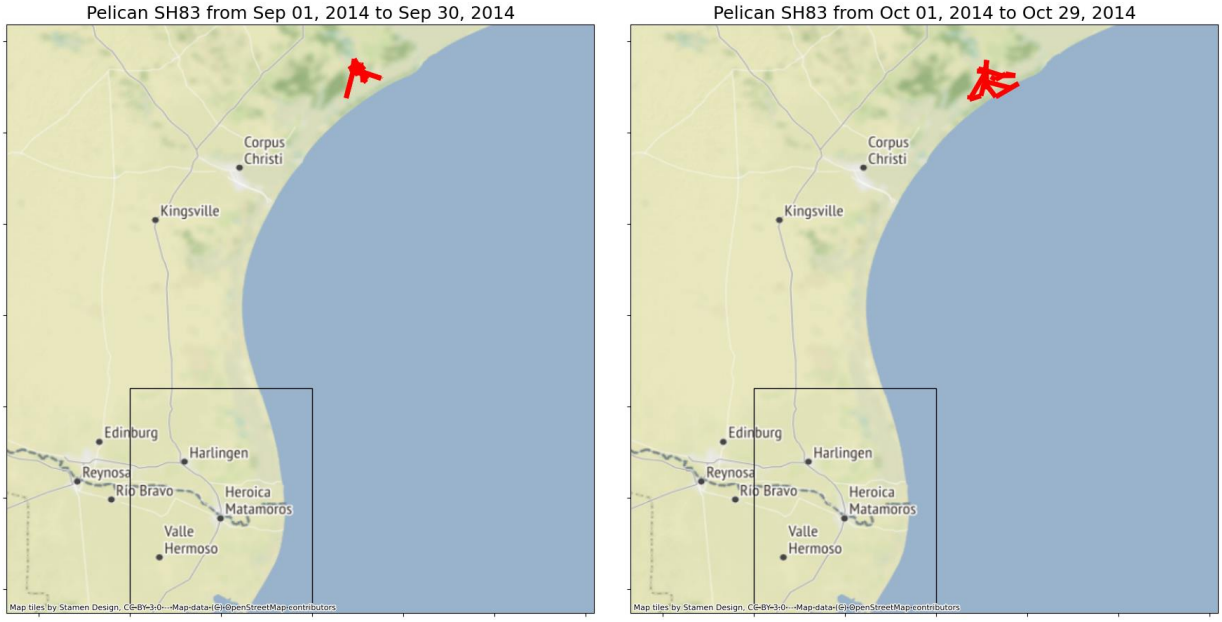

Figure 378 - Movements of SH83 between September 01, 2014 and October 29, 2014. Data from Lamb (2016)

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Pelican SH84 - Active from May 2014 to June 2014

Capture Date:	May 29, 2014
Capture Location:	Shamrock (Texas)
Sex:	M
Status:	rearing chick
Days Active:	10

Figure 379 - Movements of SH84 between May 29, 2014 and May 31, 2014. Data from Lamb (2016)

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Pelican SH85 - Active from June 2014 to November 2014

Capture Date: June 12, 2014
Capture Location: Shamrock (Texas)
Sex: M
Status: incubating
Days Active: 161

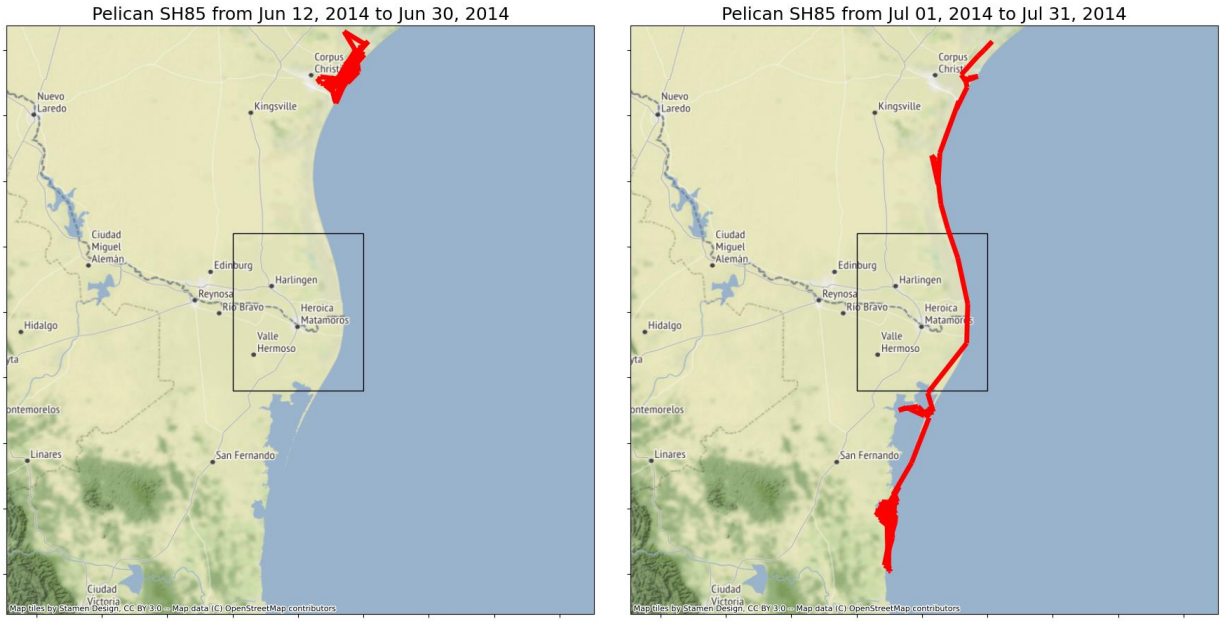

Figure 380 - Movements of SH85 between June 12, 2014 and July 31, 2014. Data from Lamb (2016)

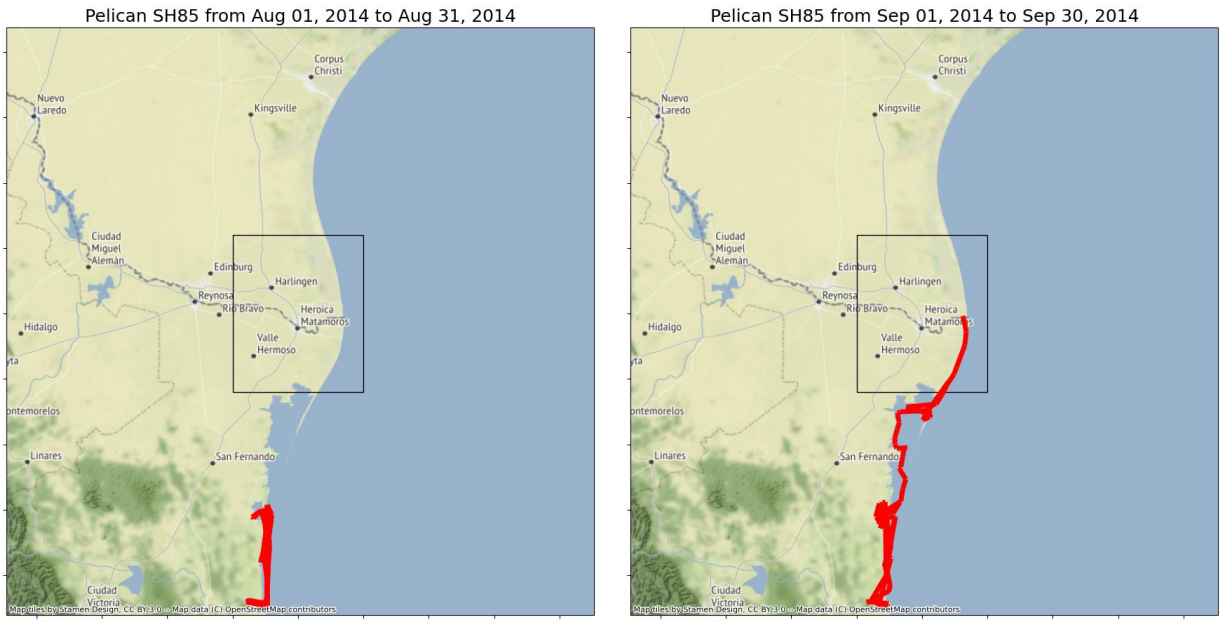

Figure 381 - Movements of SH85 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

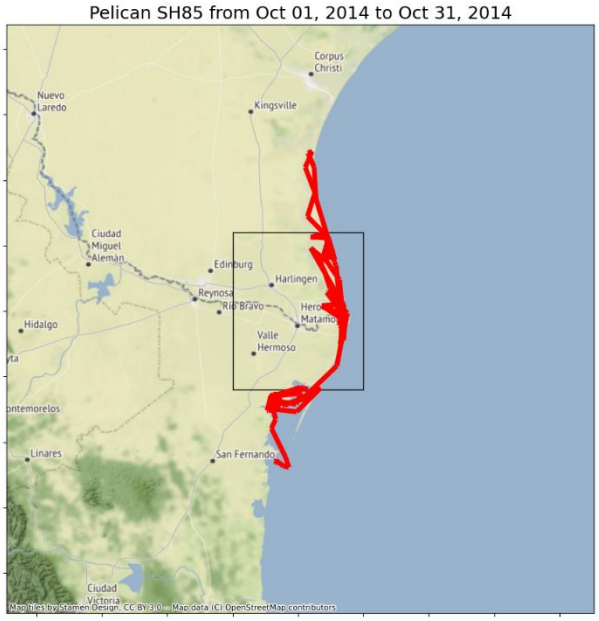

Figure 382 - Movements of SH85 between October 01, 2014 and October 31, 2014. Data from Lamb (2016)

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Pelican SH86 - Active from May 2014 to July 2014

Capture Date:	May 29, 2014
Capture Location:	Shamrock (Texas)
Sex:	F
Status:	rearing chick
Days Active:	57

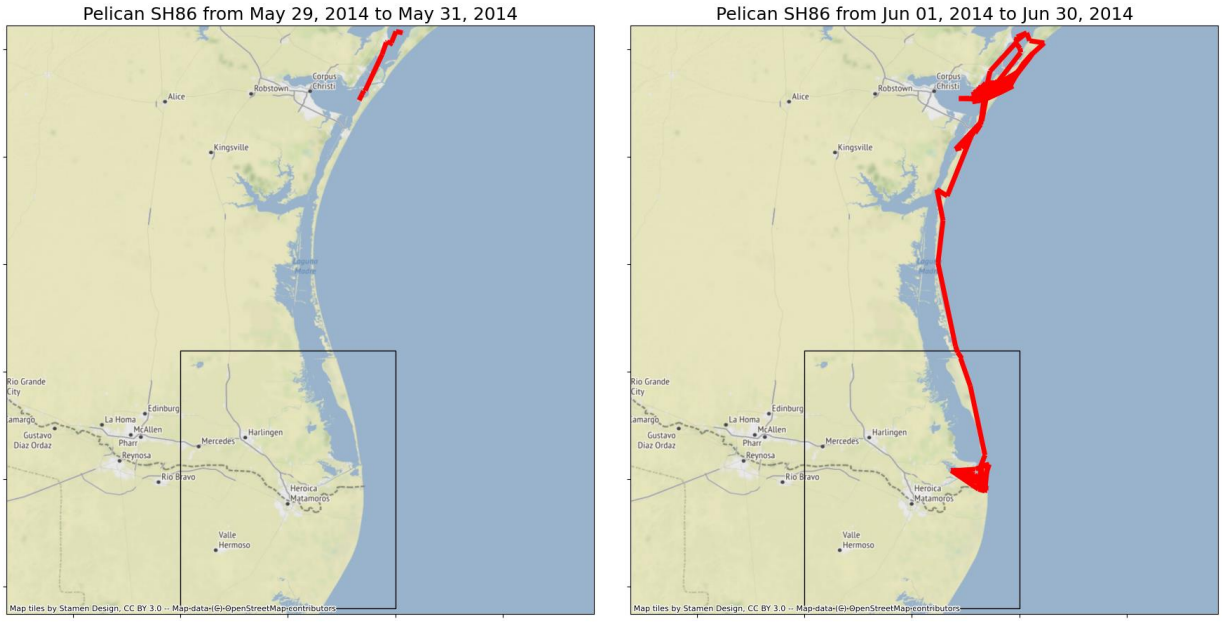

Figure 383 - Movements of SH86 between May 29, 2014 and June 30, 2014. Data from Lamb (2016)

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Pelican SH87 - Active from May 2014 to November 2014

Capture Date: May 30, 2014
Capture Location: Shamrock (Texas)
Sex: F
Status: incubating
Days Active: 180

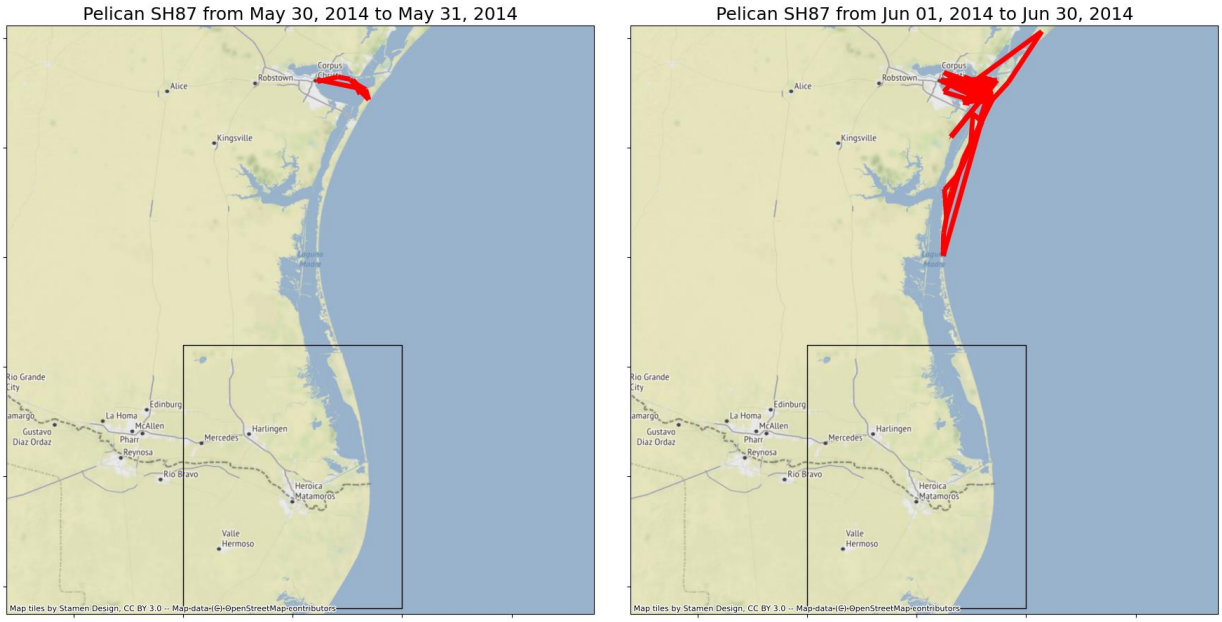

Figure 384 - Movements of SH87 between May 30, 2014 and June 30, 2014. Data from Lamb (2016)

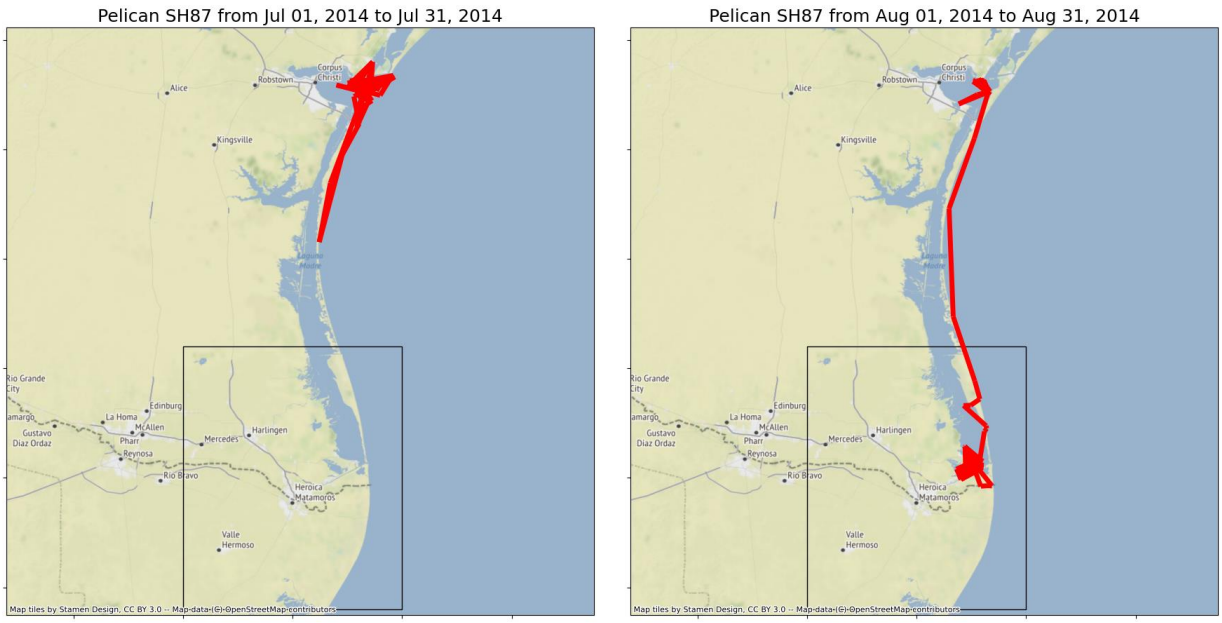

Figure 385 - Movements of SH87 between July 01, 2014 and August 31, 2014. Data from Lamb (2016)

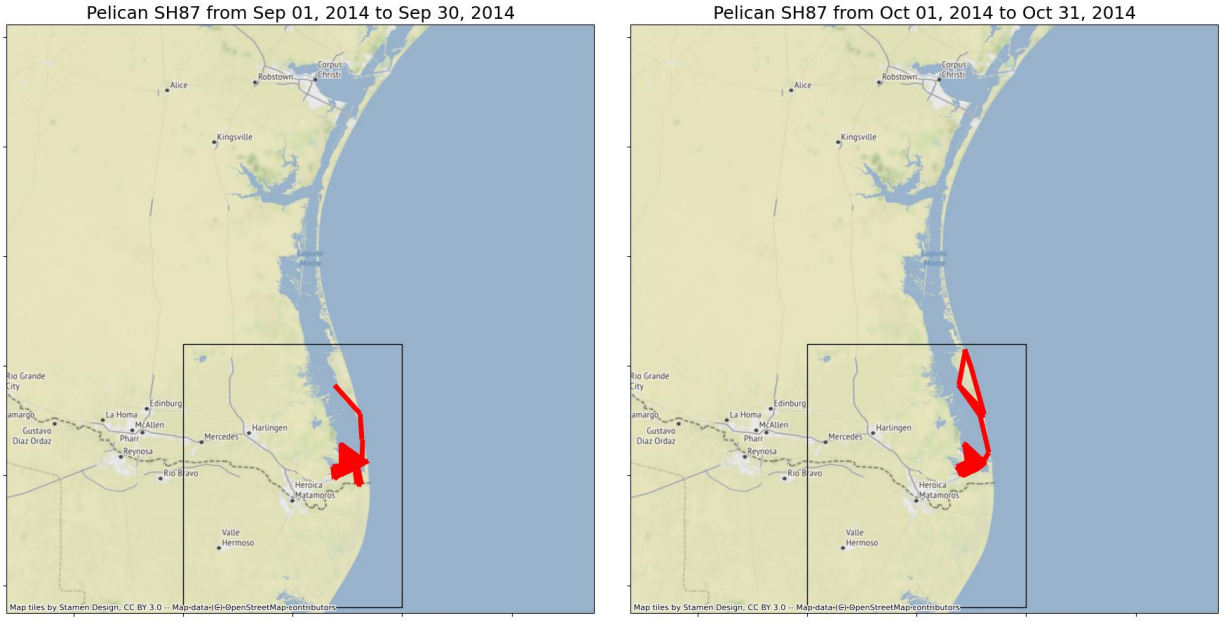

Figure 386 - Movements of SH87 between September 01, 2014 and October 31, 2014. Data from Lamb (2016)

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Pelican SM30 - Active from May 2013 to September 2013

Capture Date:	May 29, 2013
Capture Location:	Smith (FL)
Sex:	F
Status:	rearing chick
Days Active:	103

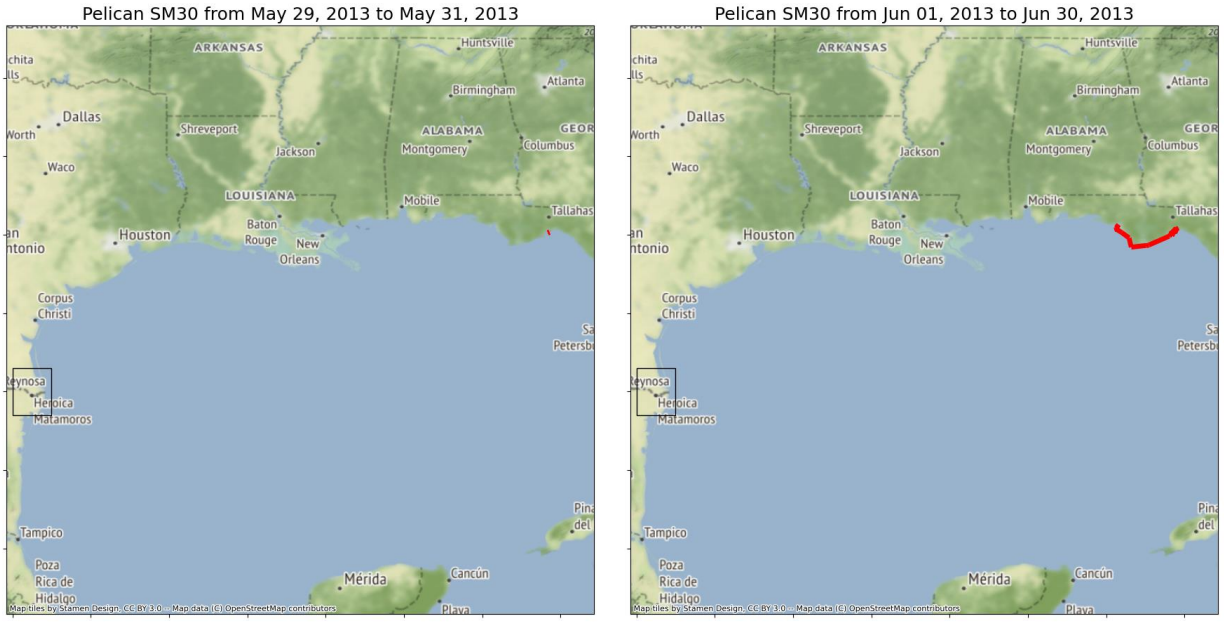

Figure 387 - Movements of SM30 between May 29, 2013 and June 30, 2013. Data from Lamb (2016)

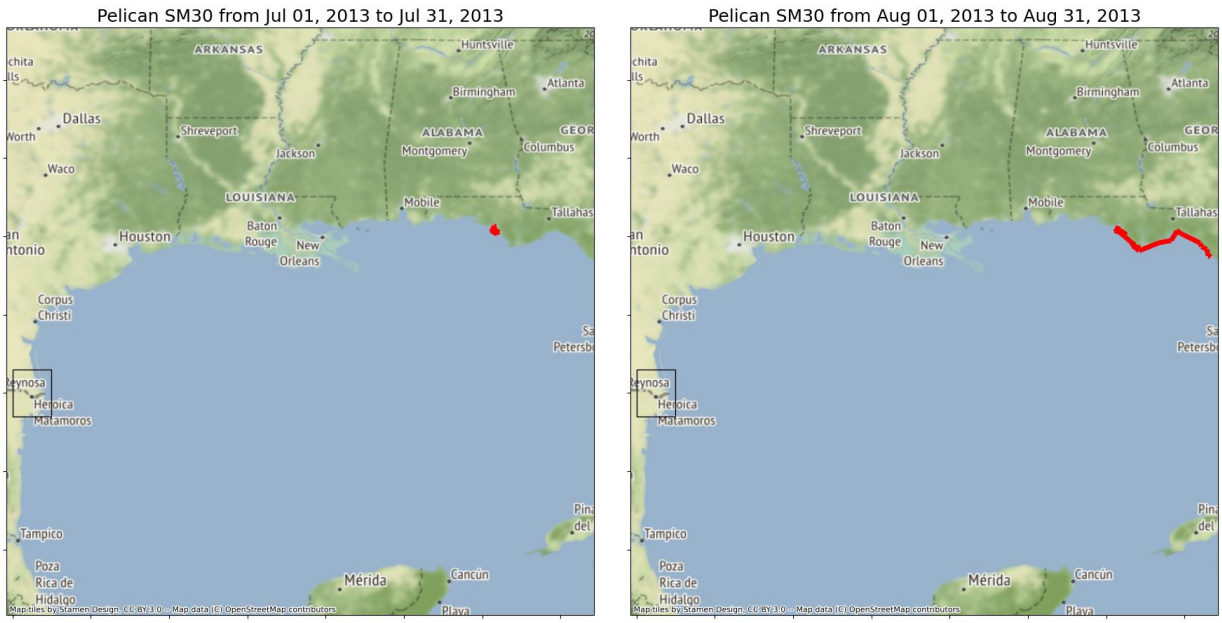

Figure 388 - Movements of SM30 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

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Pelican SM31 - Active from May 2013 to November 2013

Capture Date: May 29, 2013
Capture Location: Smith (FL)
Sex: F
Status: rearing chick
Days Active: 170

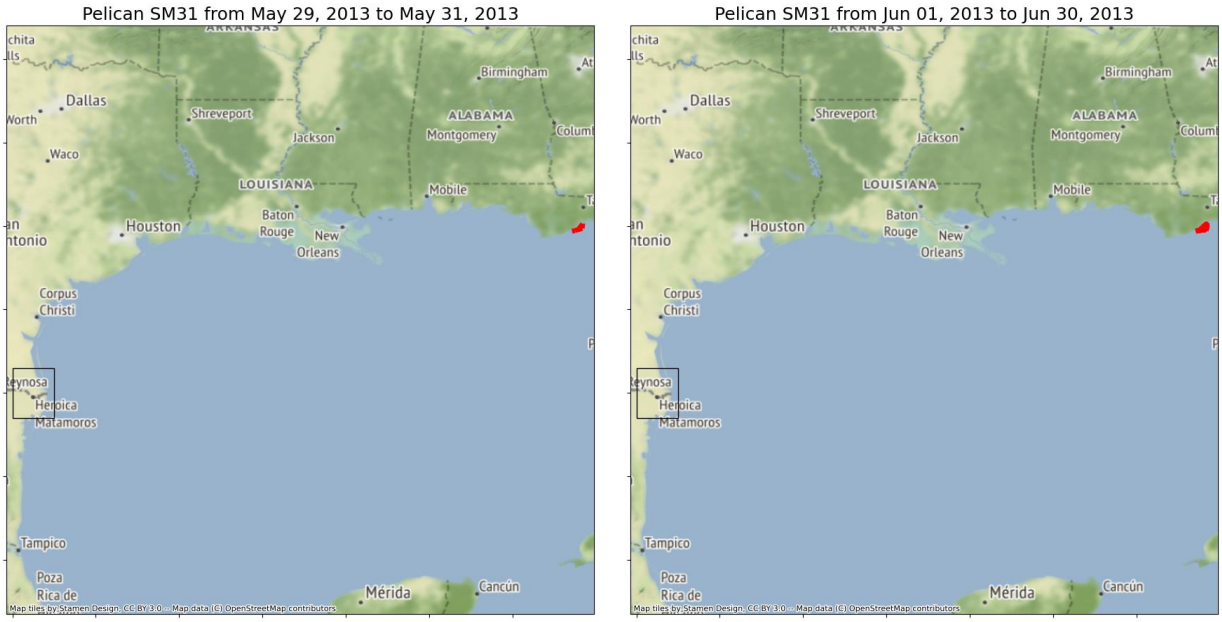

Figure 389 - Movements of SM31 between May 29, 2013 and June 30, 2013. Data from Lamb (2016)

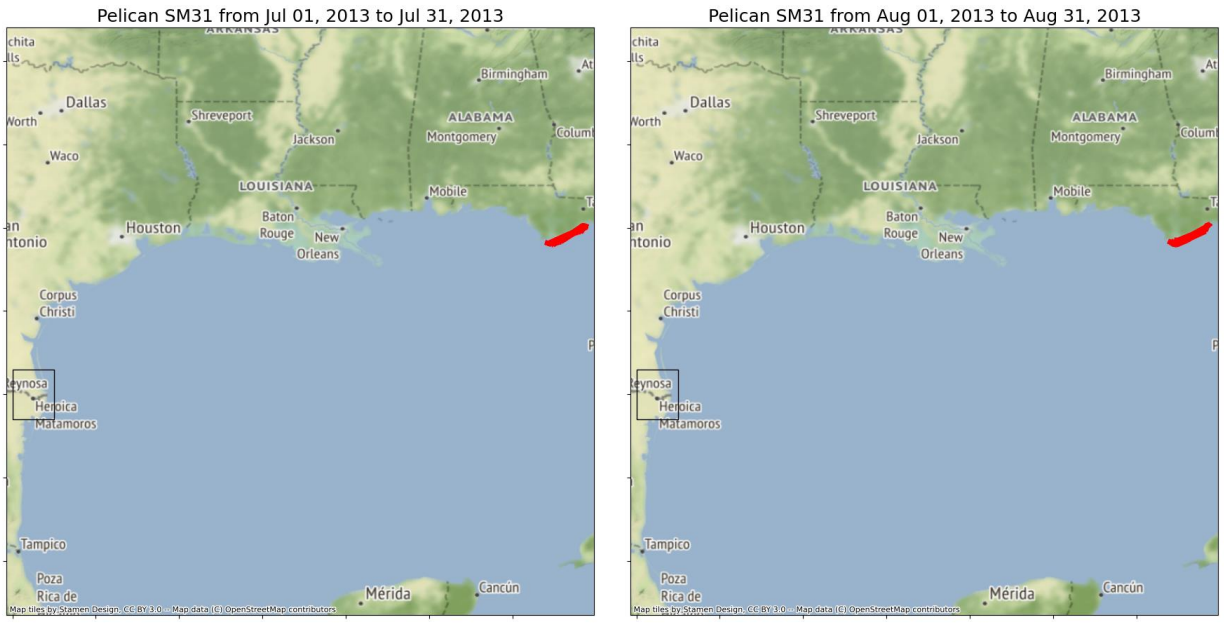

Figure 390 - Movements of SM31 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

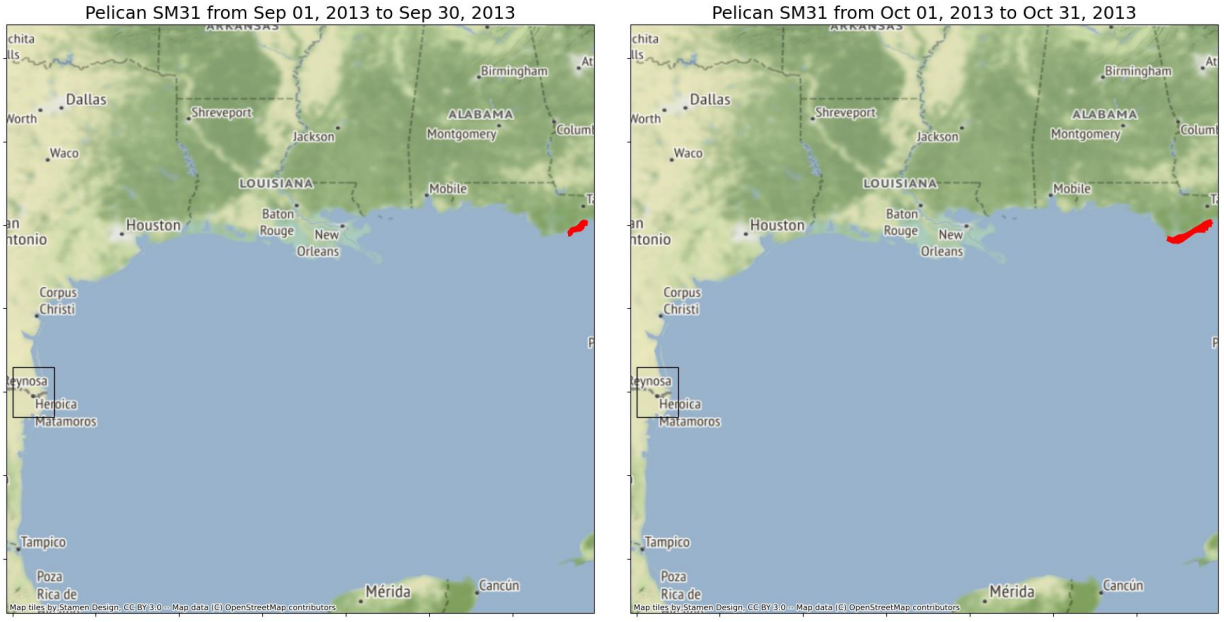

Figure 391 - Movements of SM31 between September 01, 2013 and October 31, 2013. Data from Lamb (2016)

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Pelican SM33 - Active from May 2013 to September 2013

Capture Date: May 29, 2013
Capture Location: Smith (FL)
Sex: F
Status: rearing chick
Days Active: 97

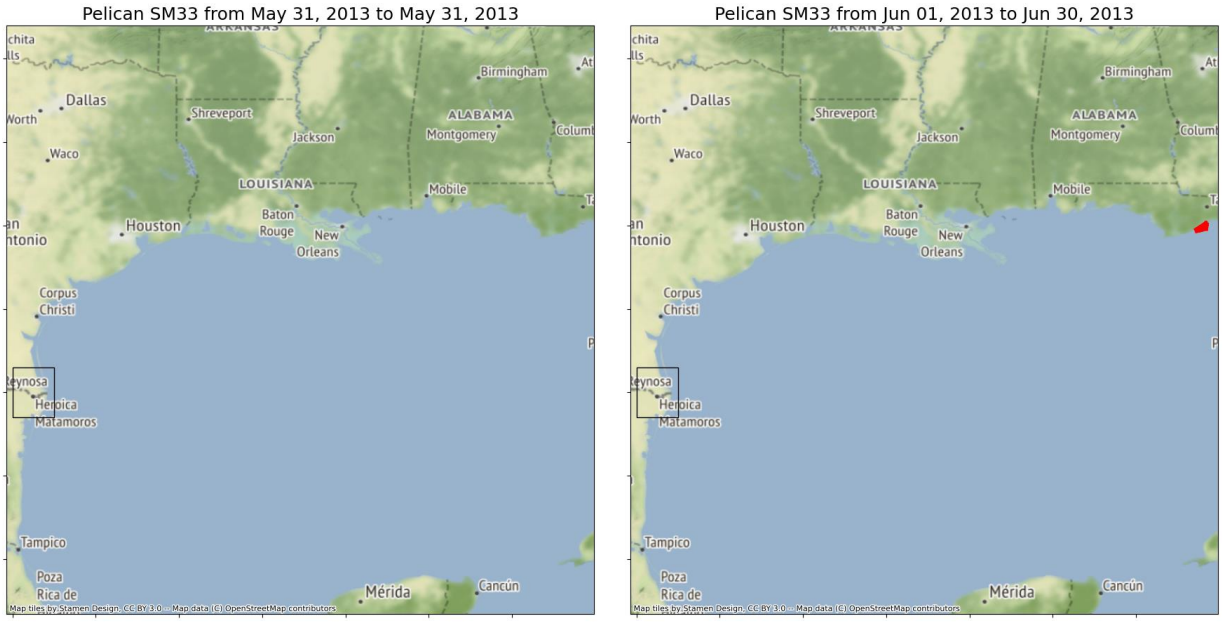

Figure 392 - Movements of SM33 between May 31, 2013 and June 30, 2013. Data from Lamb (2016)

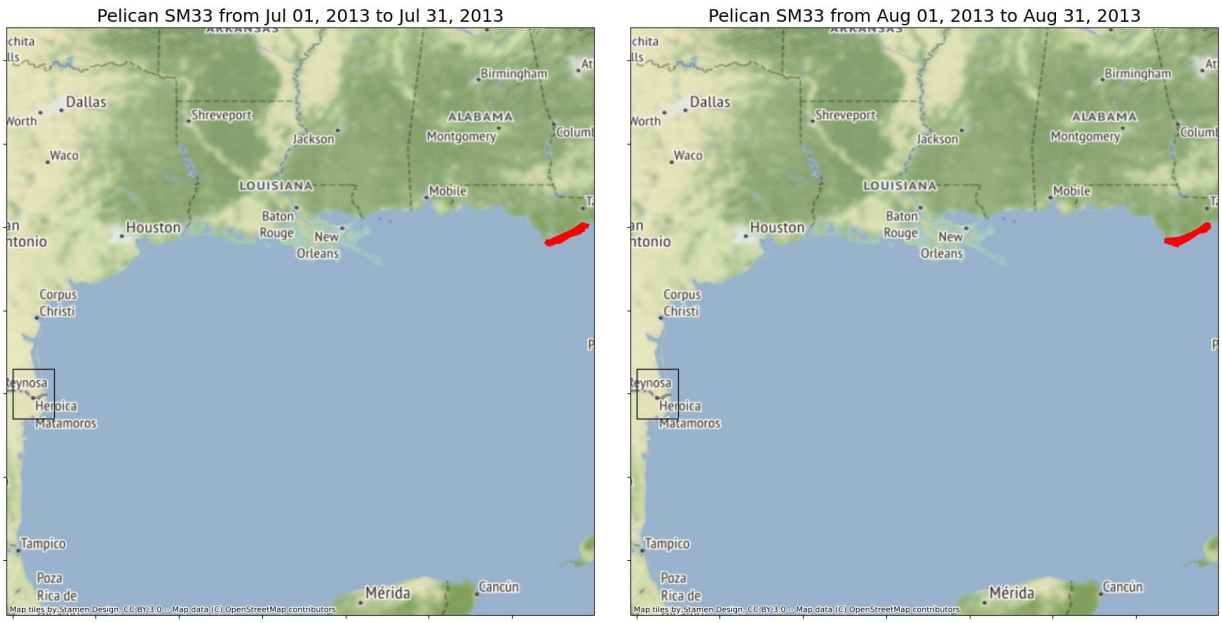

Figure 393 - Movements of SM33 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

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Pelican SM34 - Active from May 2013 to January 2014

Capture Date:	May 31, 2013
Capture Location:	Smith (FL)
Sex:	M
Status:	rearing chick
Days Active:	215

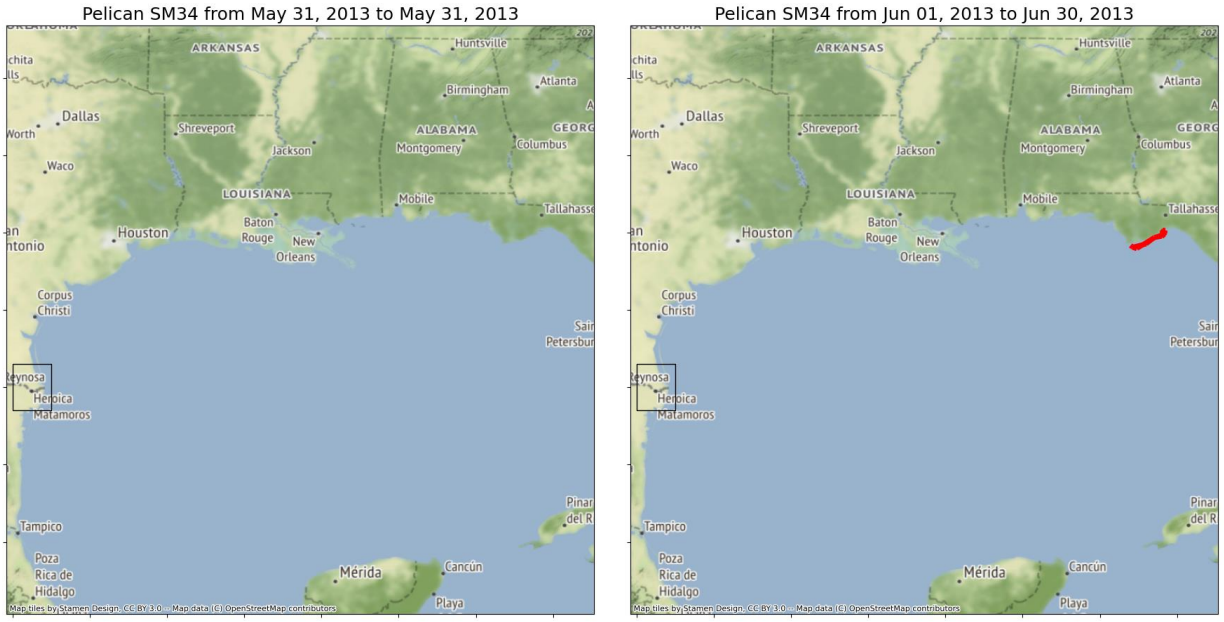

Figure 394 - Movements of SM34 between May 31, 2013 and June 30, 2013. Data from Lamb (2016)

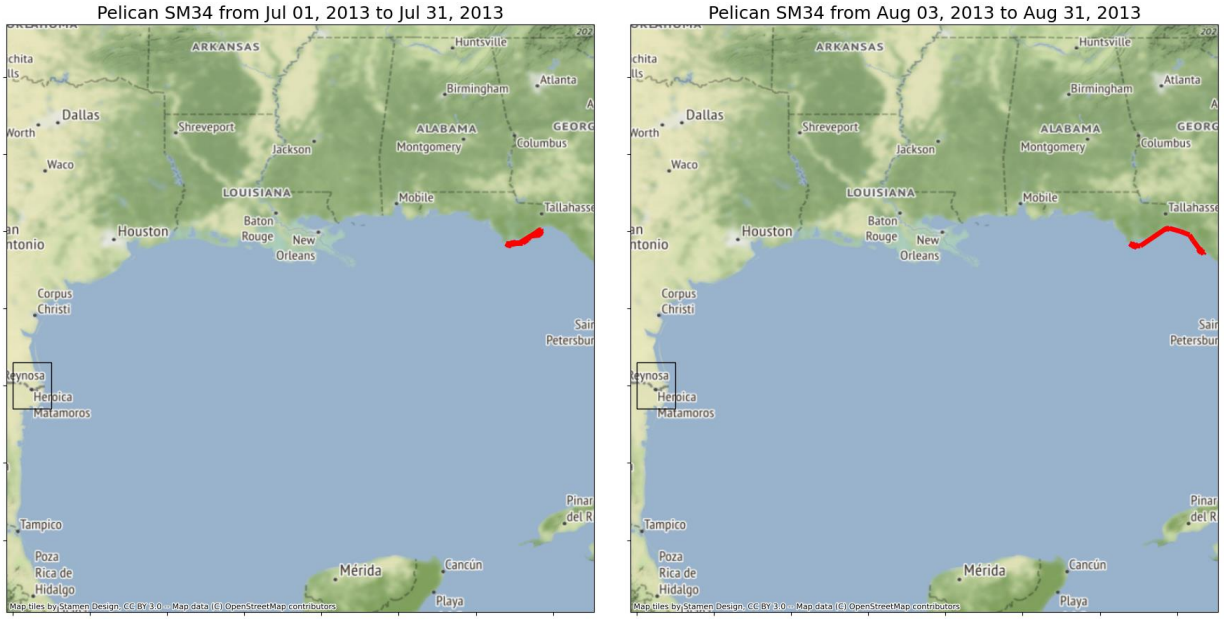

Figure 395 - Movements of SM34 between July 01, 2013 and August 31, 2013. Data from Lamb (2016)

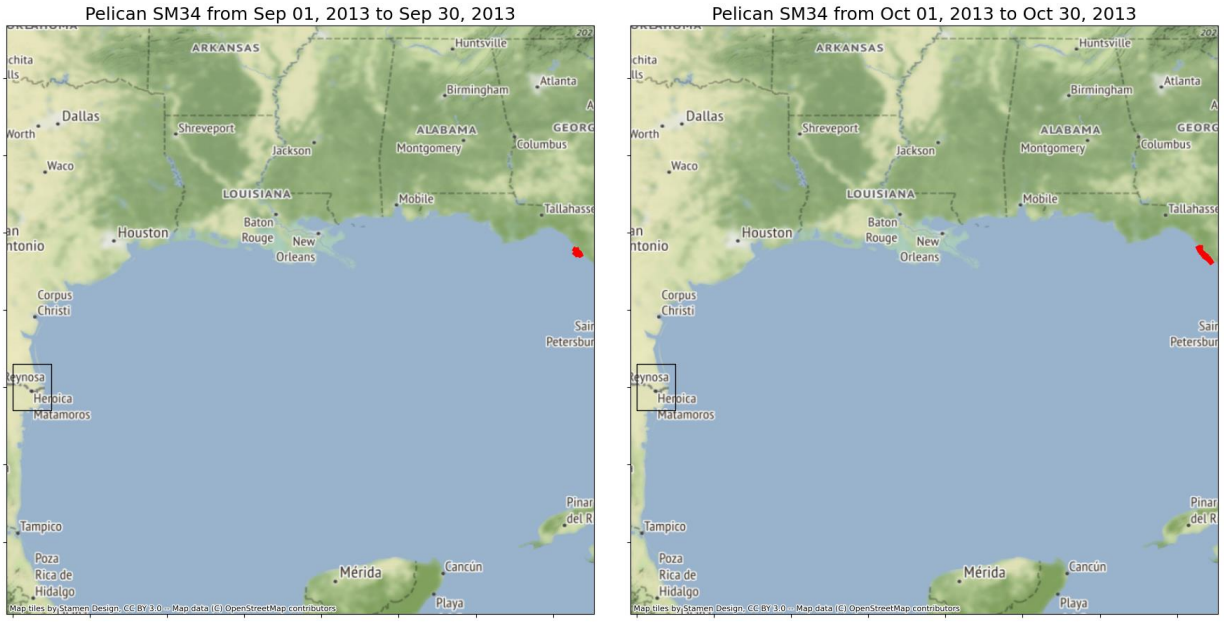

Figure 396 - Movements of SM34 between September 01, 2013 and October 30, 2013. Data from Lamb (2016)

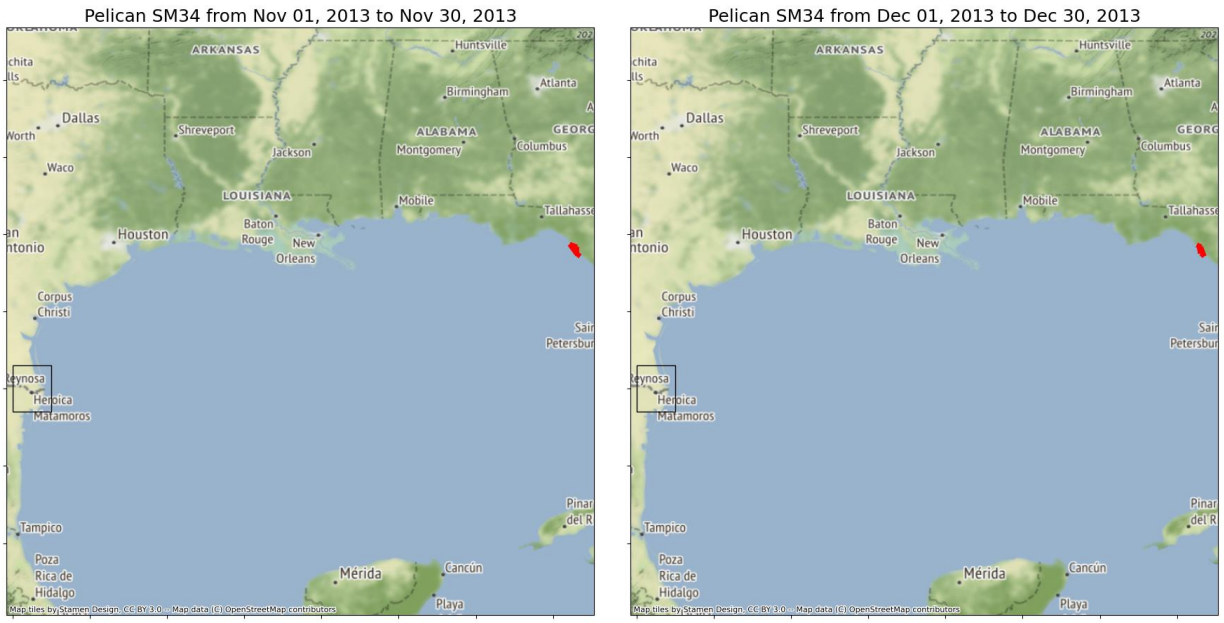

Figure 397 - Movements of SM34 between November 01, 2013 and December 30, 2013. Data from Lamb (2016)

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Pelican SM35 - Active from May 2013 to June 2013

Capture Date:	May 31, 2013
Capture Location:	Smith (FL)
Sex:	F
Status:	rearing chick
Days Active:	1

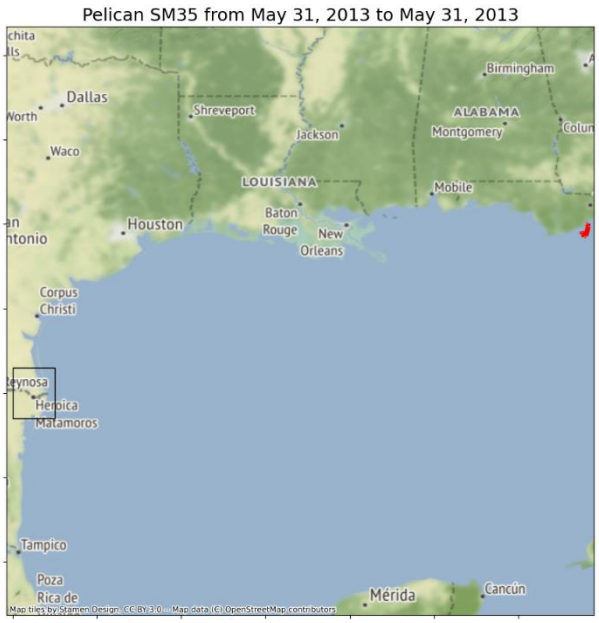

Figure 398 - Movements of SM35 between May 31, 2013 and May 31, 2013. Data from Lamb (2016)

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Pelican SM36 - Active from May 2013 to July 2013

Capture Date:	May 31, 2013
Capture Location:	Smith (FL)
Sex:	F
Status:	rearing chick
Days Active:	59

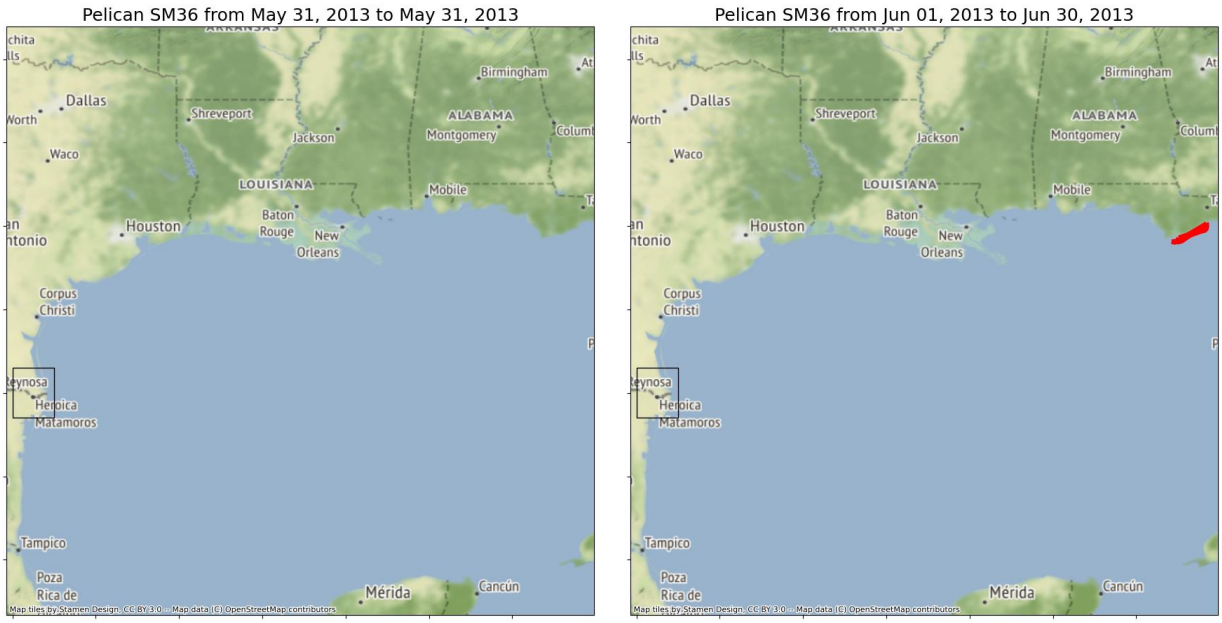

Figure 399 - Movements of SM36 between May 31, 2013 and June 30, 2013. Data from Lamb (2016)

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Pelican SM37 - Active from May 2013 to June 2013

Capture Date:	May 31, 2013
Capture Location:	Smith (FL)
Sex:	M
Status:	rearing chick
Days Active:	7

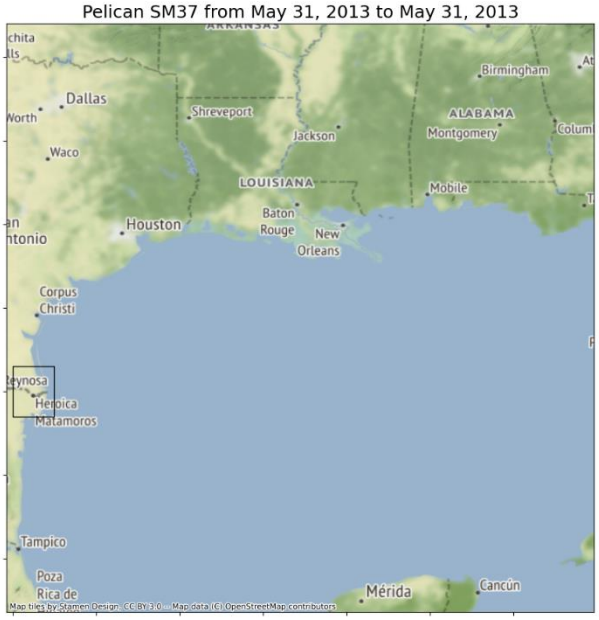

Figure 400 - Movements of SM37 between May 31, 2013 and May 31, 2013. Data from Lamb (2016)

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Pelican SM38 - Active from May 2013 to November 2013

Capture Date: May 31, 2013
Capture Location: Smith (FL)
Sex: F
Status: rearing chick
Days Active: 179

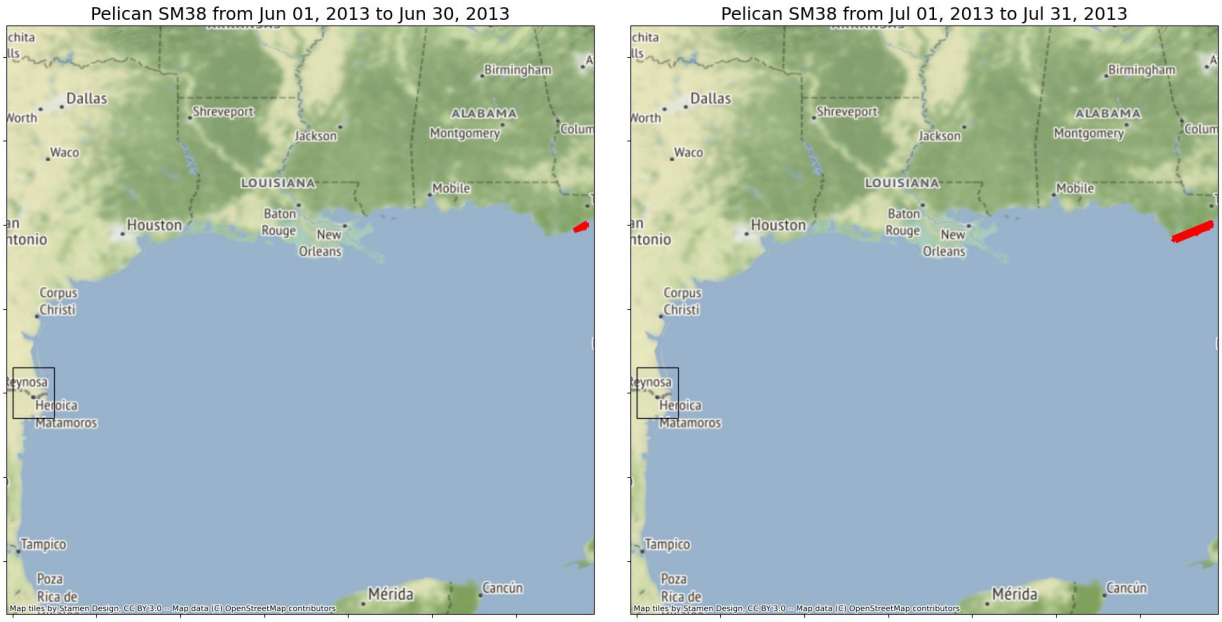

Figure 401 - Movements of SM38 between June 01, 2013 and July 31, 2013. Data from Lamb (2016)

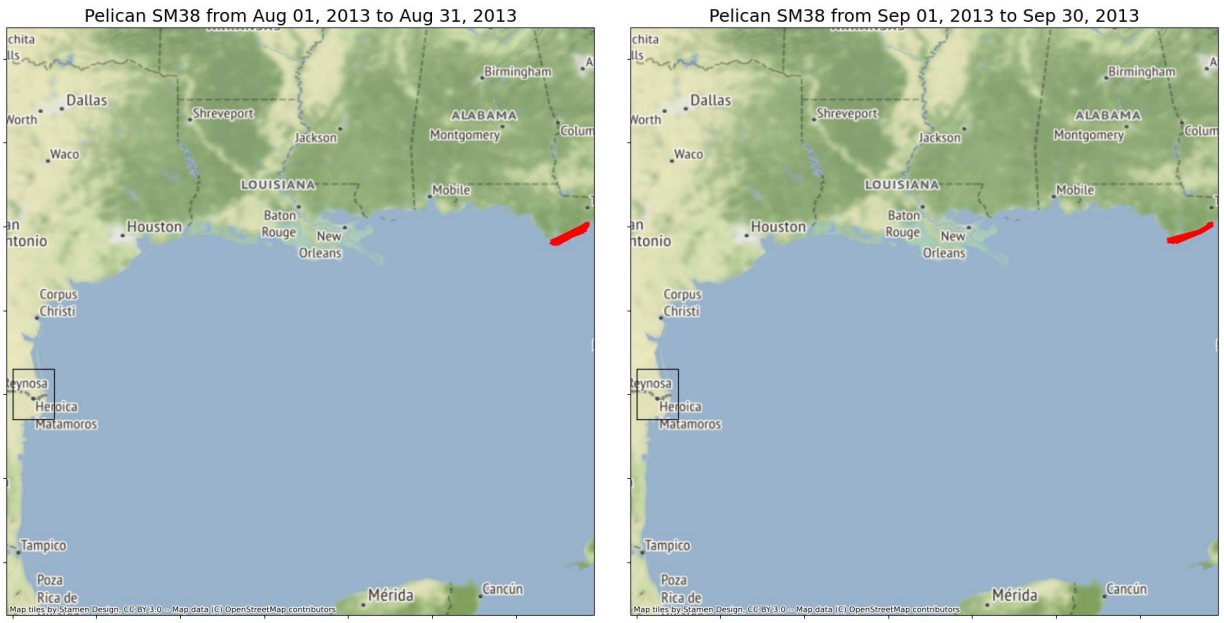

Figure 402 - Movements of SM38 between August 01, 2013 and September 30, 2013. Data from Lamb (2016)

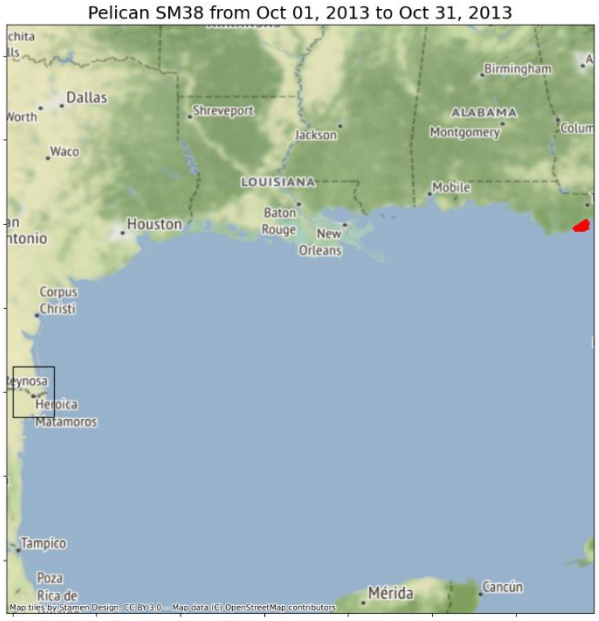

Figure 403 - Movements of SM38 between October 01, 2013 and October 31, 2013. Data from Lamb (2016)

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Pelican SM64 - Active from April 2014 to February 2015

Capture Date: April 21, 2014
Capture Location: Smith (FL)
Sex: M
Status: rearing chick
Days Active: 290

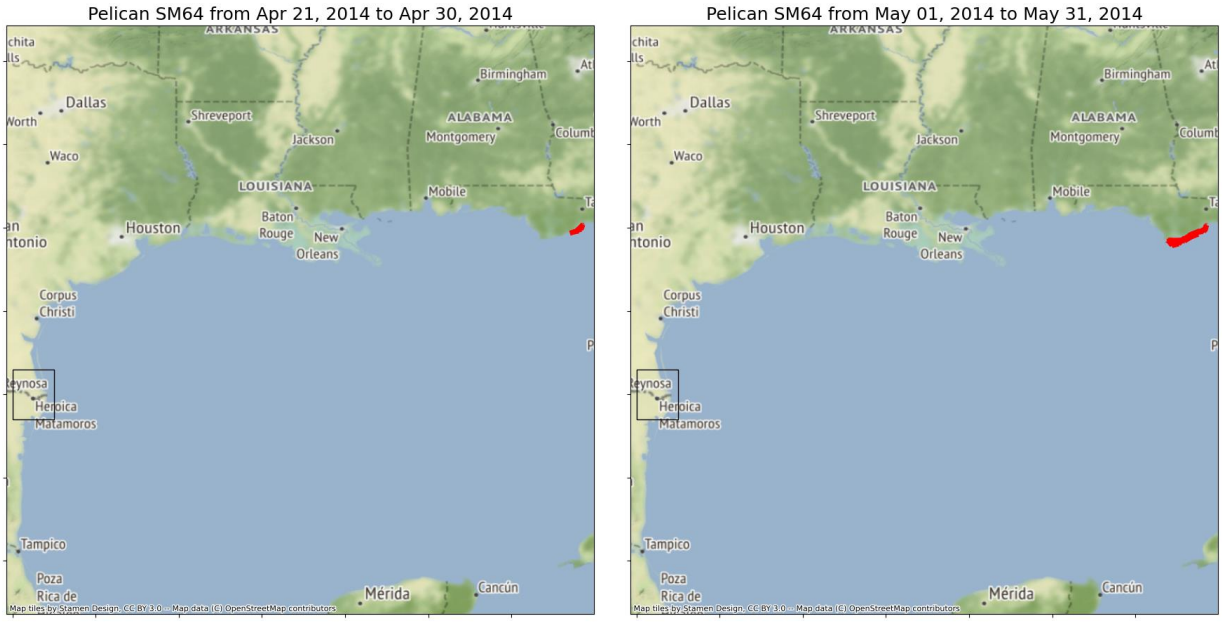

Figure 404 - Movements of SM64 between April 21, 2014 and May 31, 2014. Data from Lamb (2016)

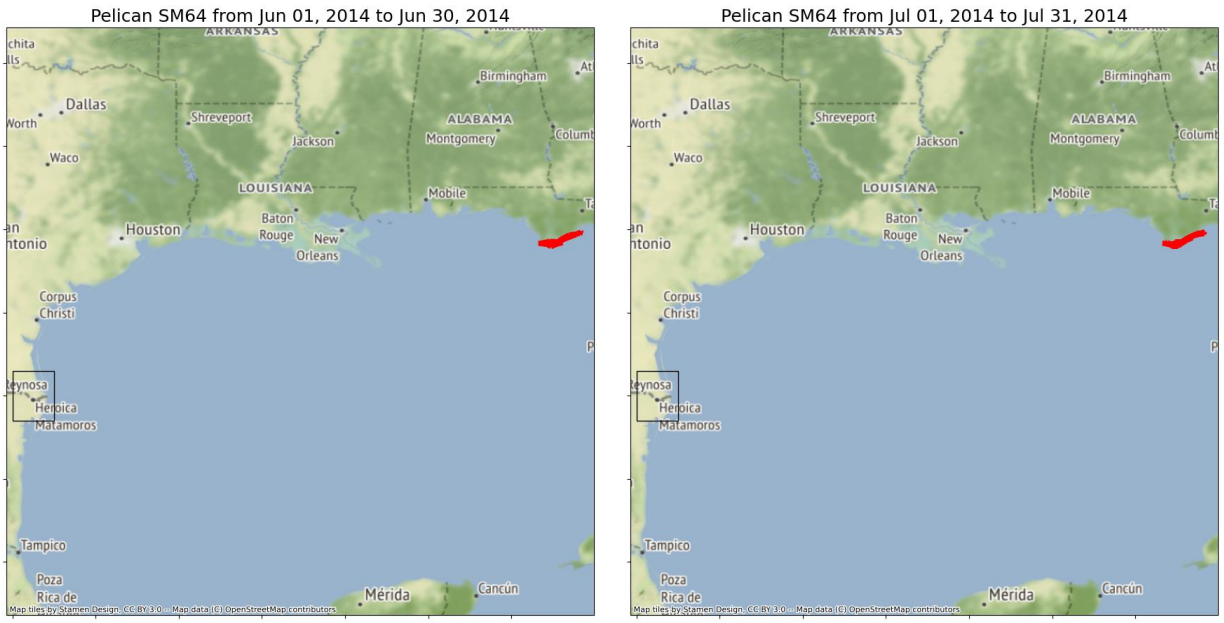

Figure 405 - Movements of SM64 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

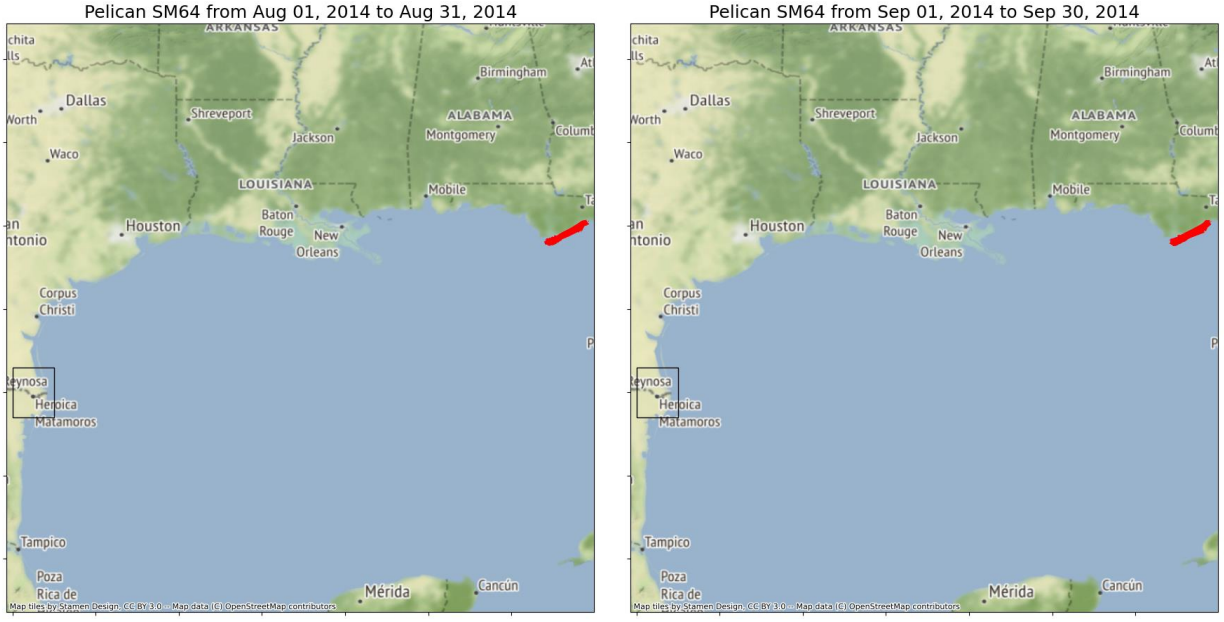

Figure 406 - Movements of SM64 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

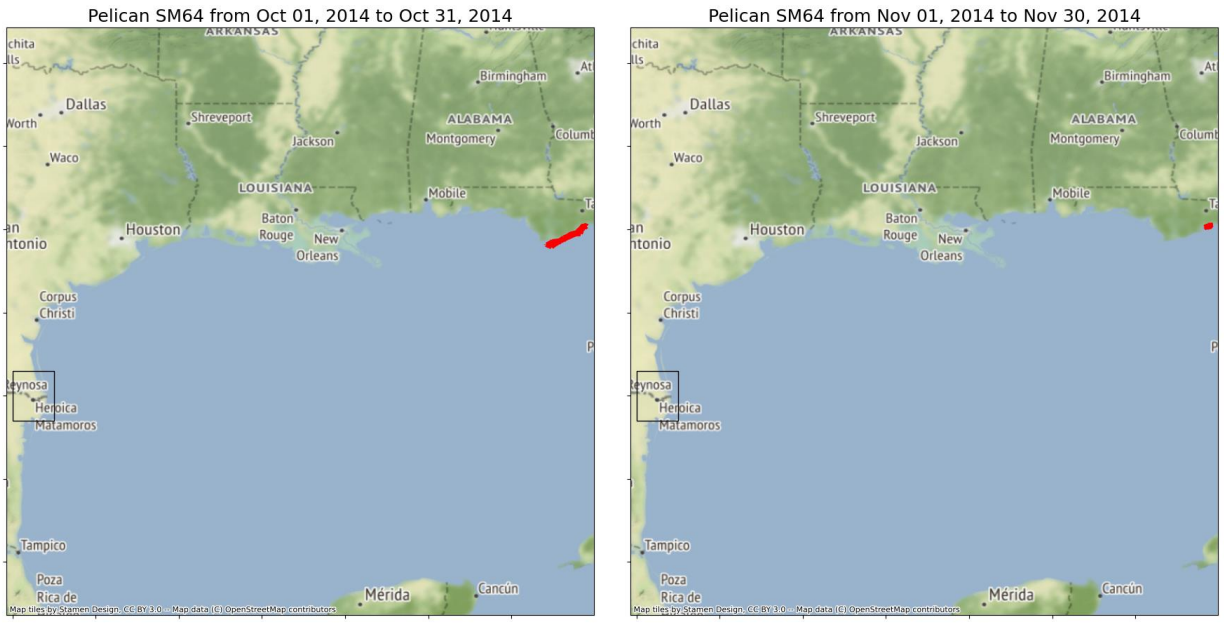

Figure 407 - Movements of SM64 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

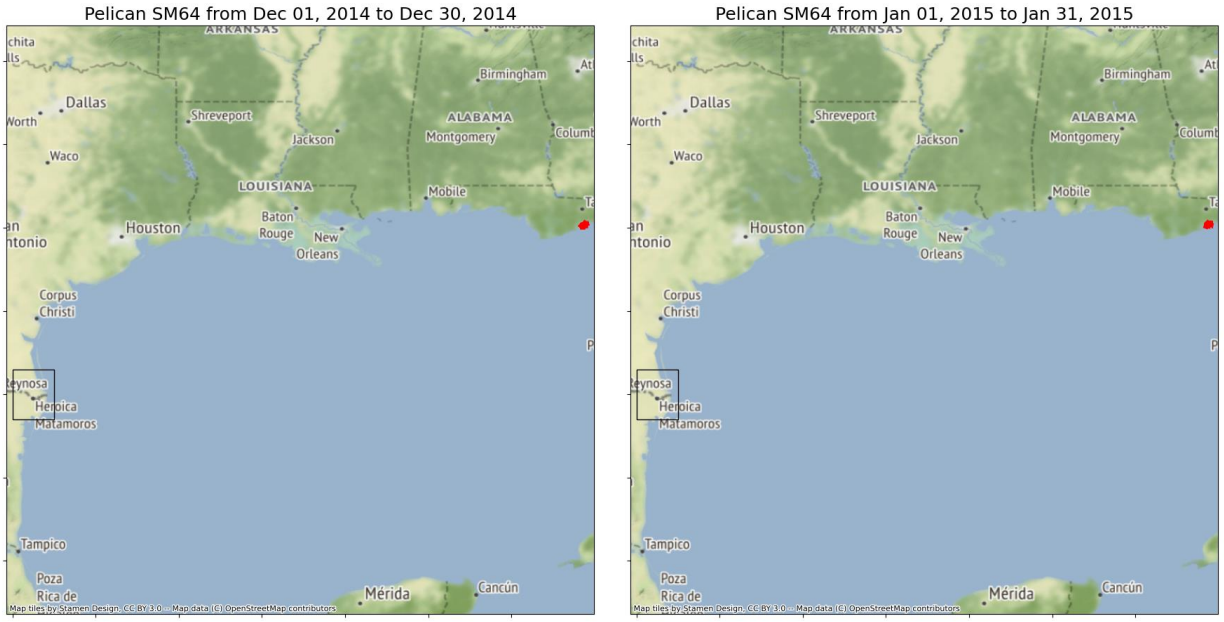

Figure 408 - Movements of SM64 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

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Pelican SM65 - Active from April 2014 to March 2015

Capture Date: April 21, 2014
Capture Location: Smith (FL)
Sex: M
Status: rearing chick
Days Active: 321

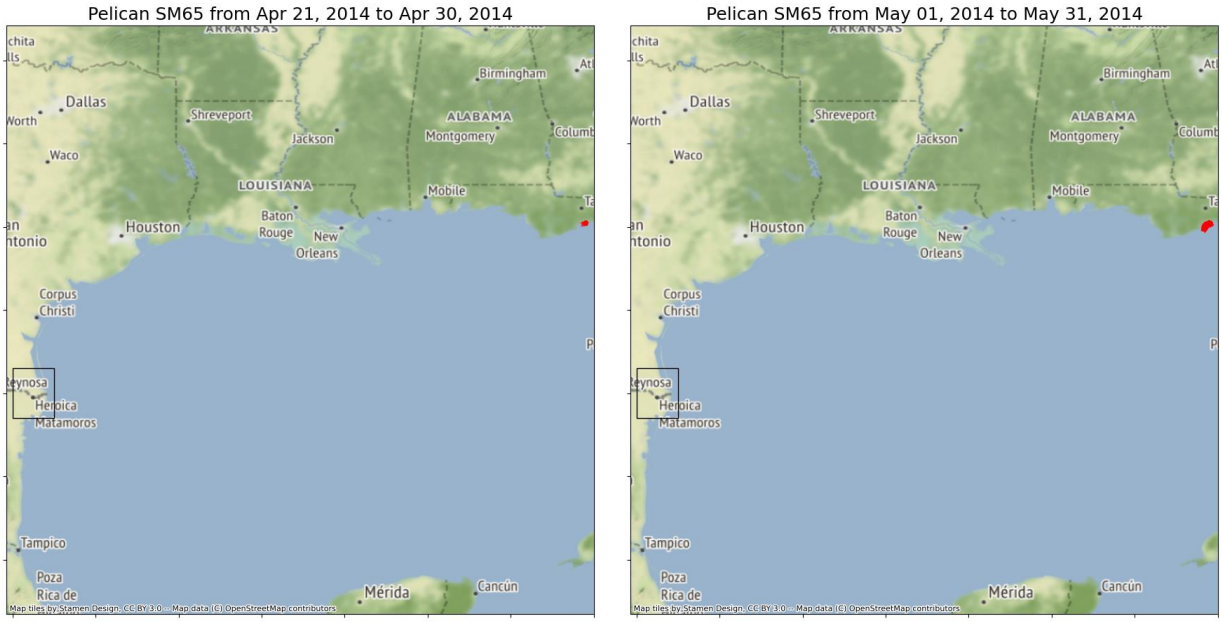

Figure 409 - Movements of SM65 between April 21, 2014 and May 31, 2014. Data from Lamb (2016)

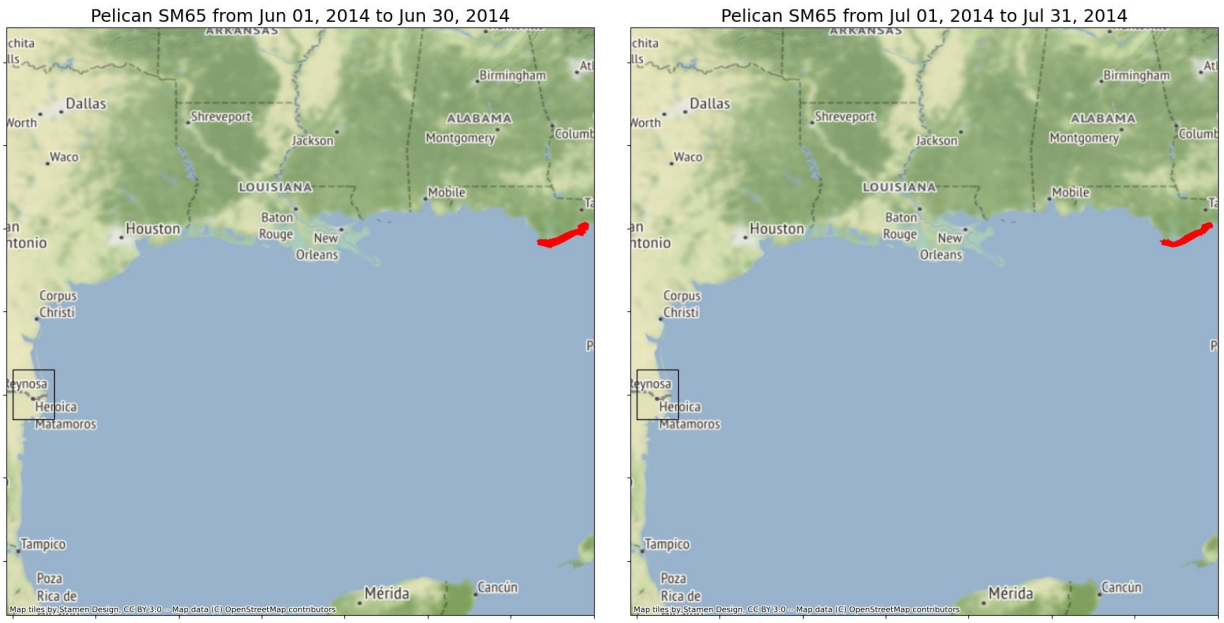

Figure 410 - Movements of SM65 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

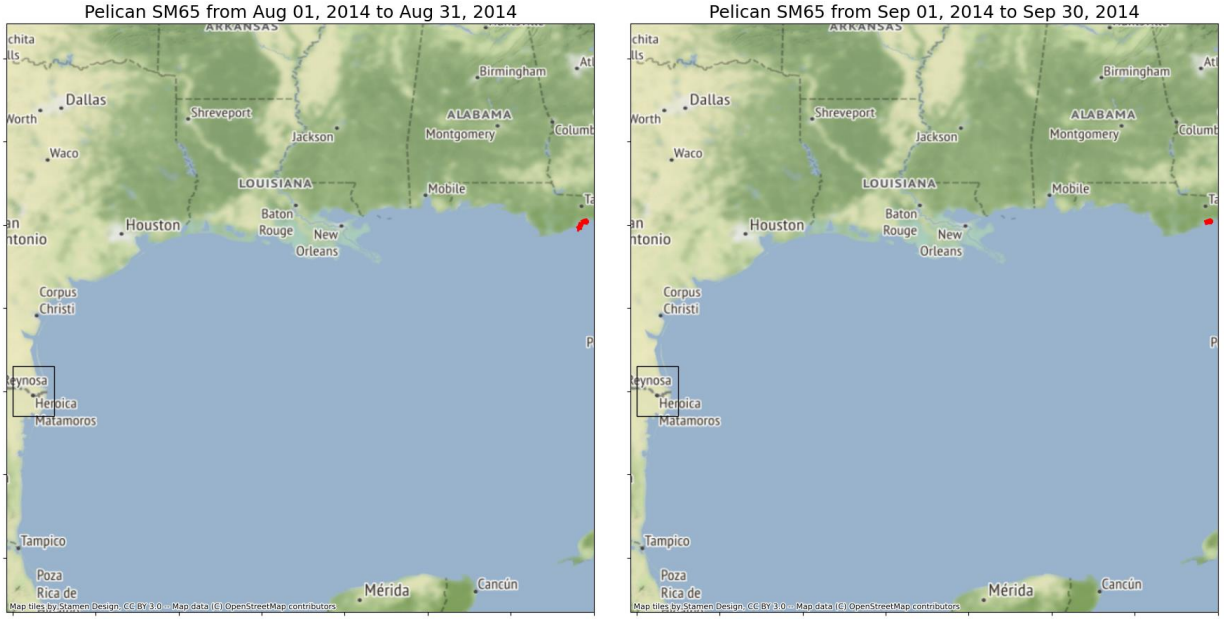

Figure 411 - Movements of SM65 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

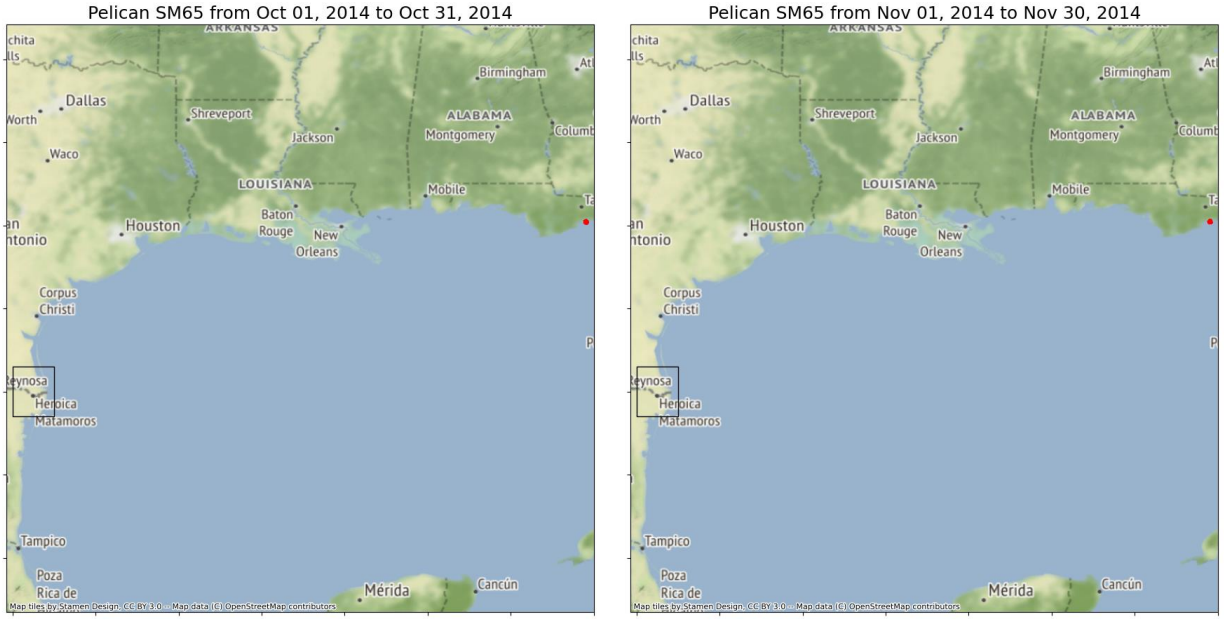

Figure 412 - Movements of SM65 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

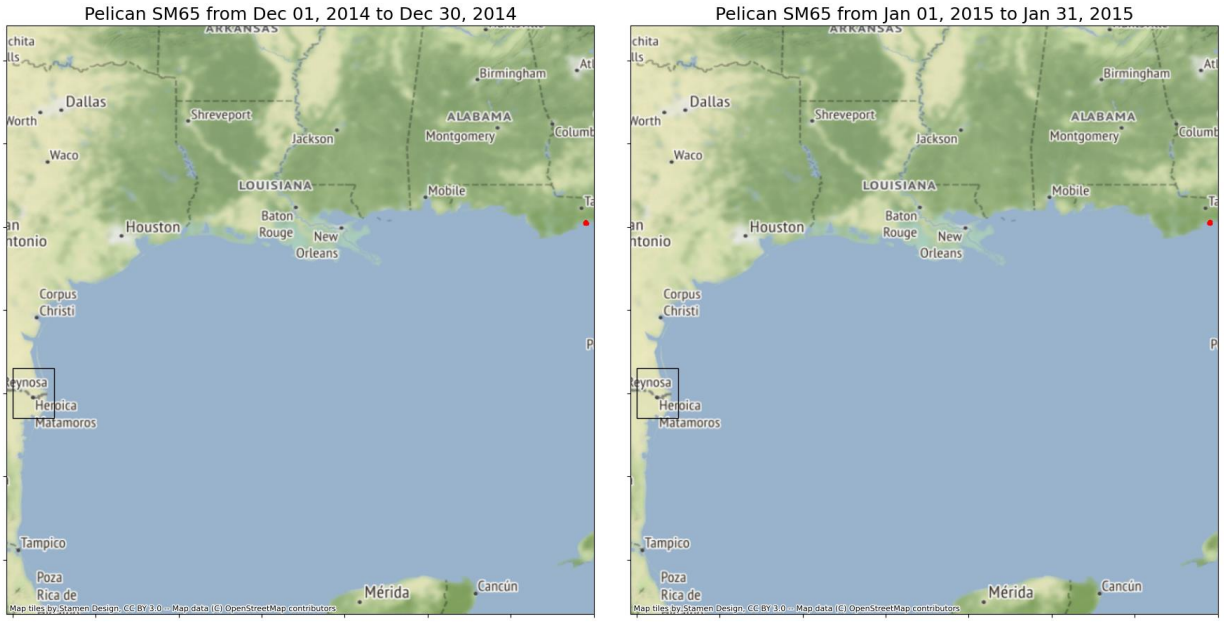

Figure 413 - Movements of SM65 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

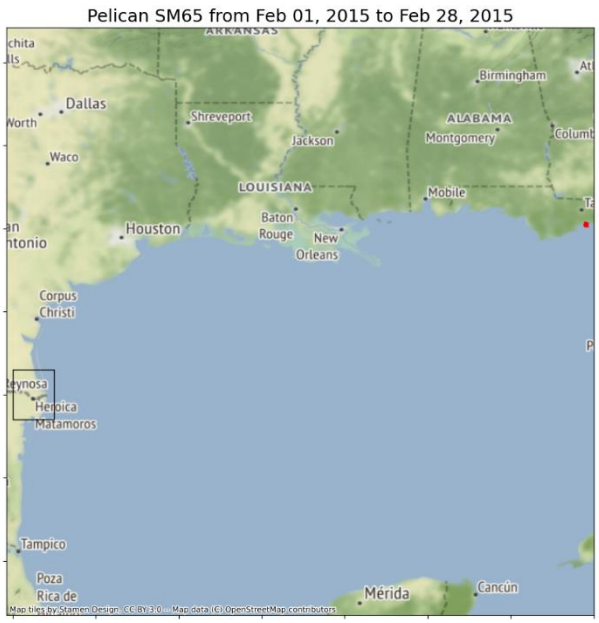

Figure 414 - Movements of SM65 between February 01, 2015 and February 28, 2015. Data from Lamb (2016)

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Pelican SM66 - Active from April 2014 to March 2015

Capture Date: April 21, 2014
Capture Location: Smith (FL)
Sex: F
Status: rearing chick
Days Active: 314

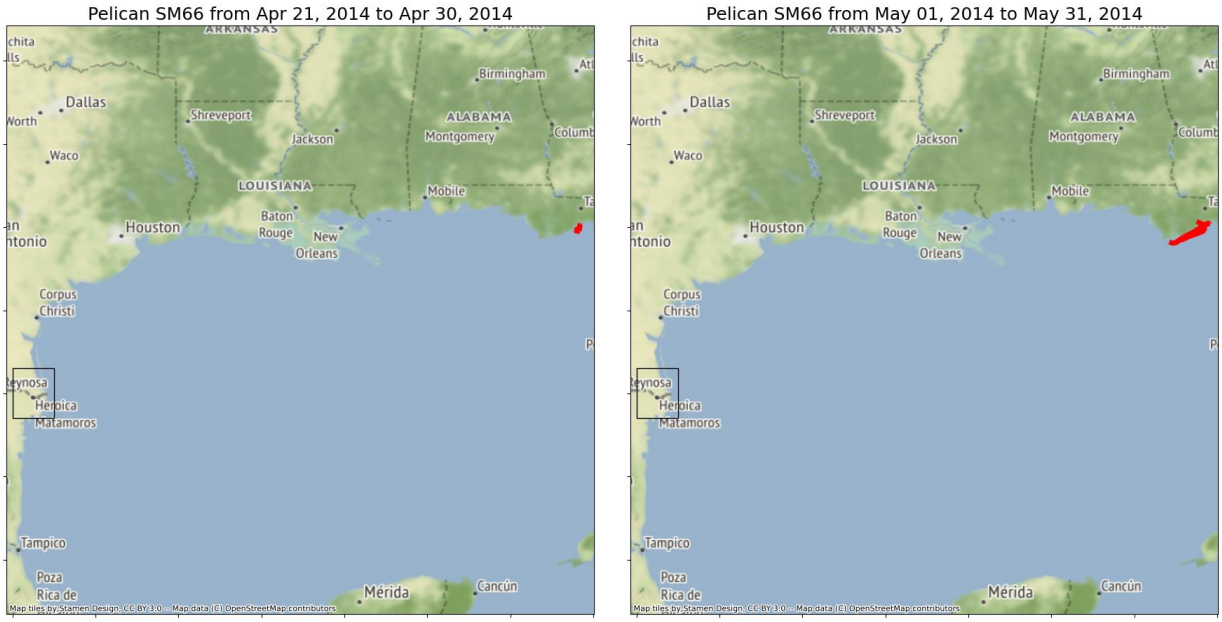

Figure 415 - Movements of SM66 between April 21, 2014 and May 31, 2014. Data from Lamb (2016)

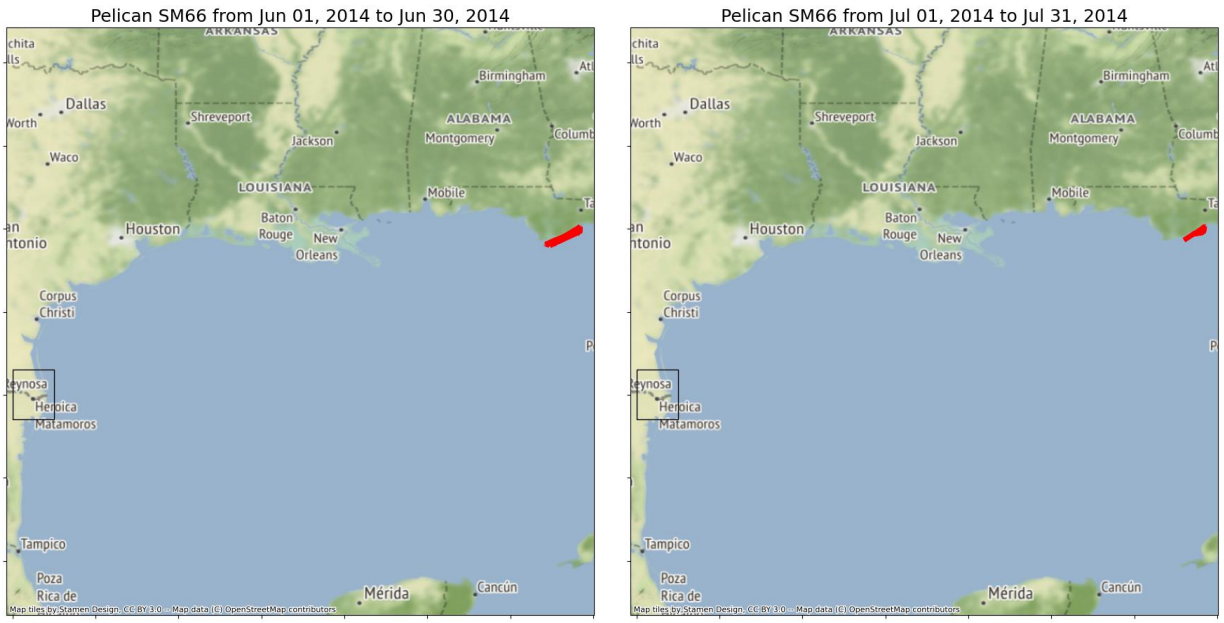

Figure 416 - Movements of SM66 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

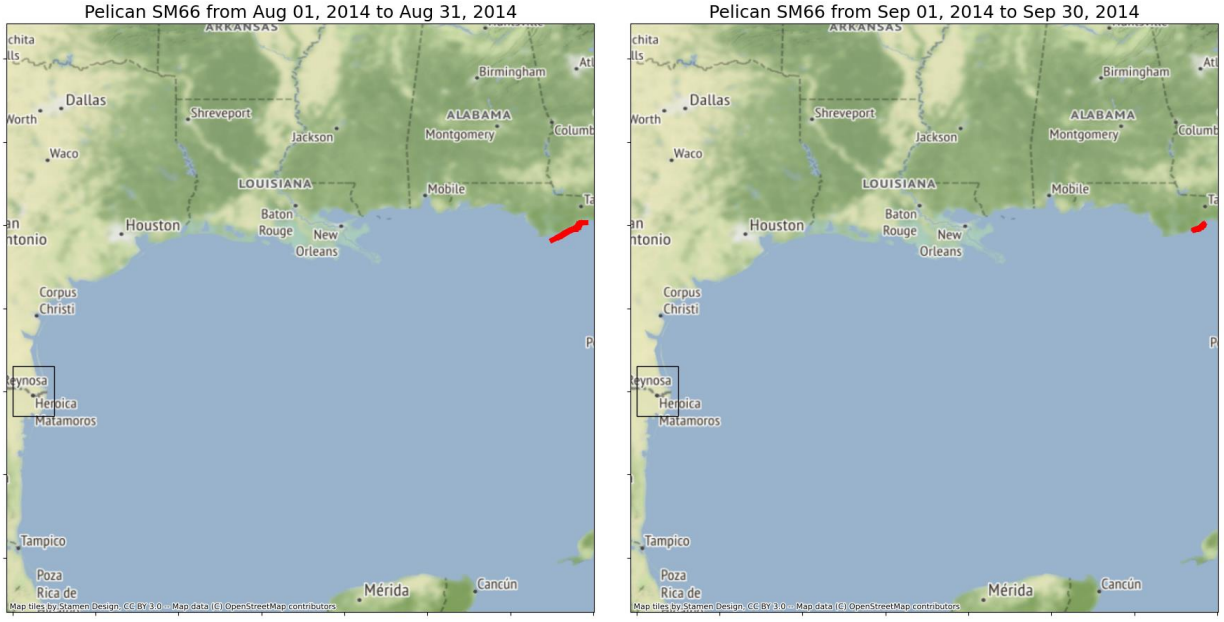

Figure 417 - Movements of SM66 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

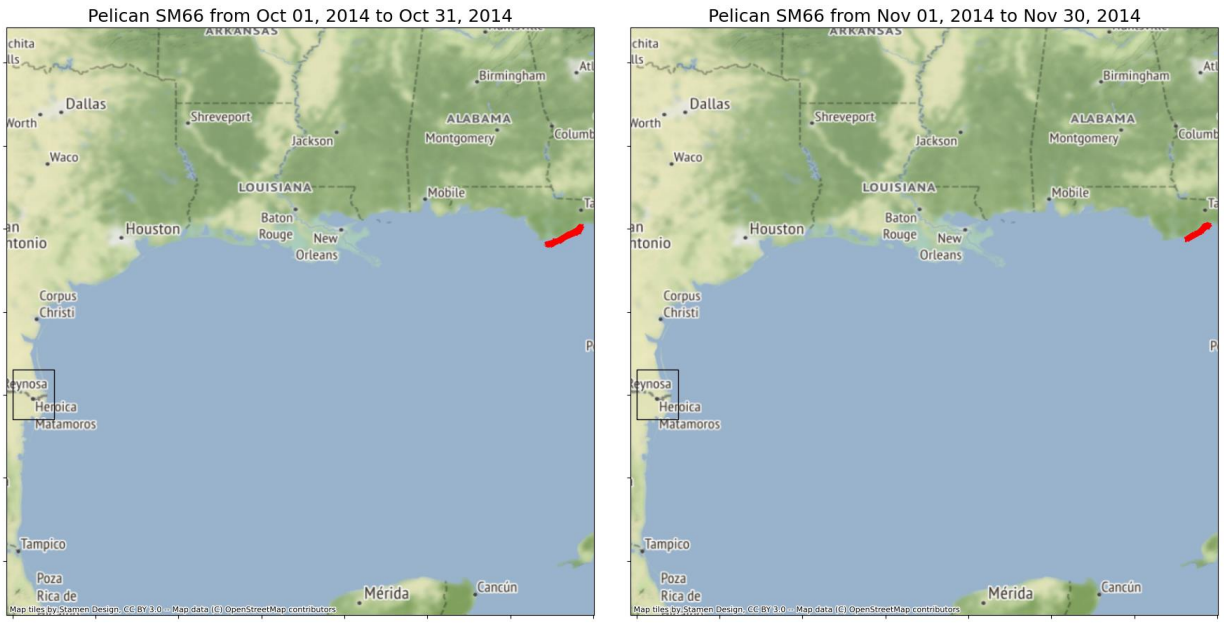

Figure 418 - Movements of SM66 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

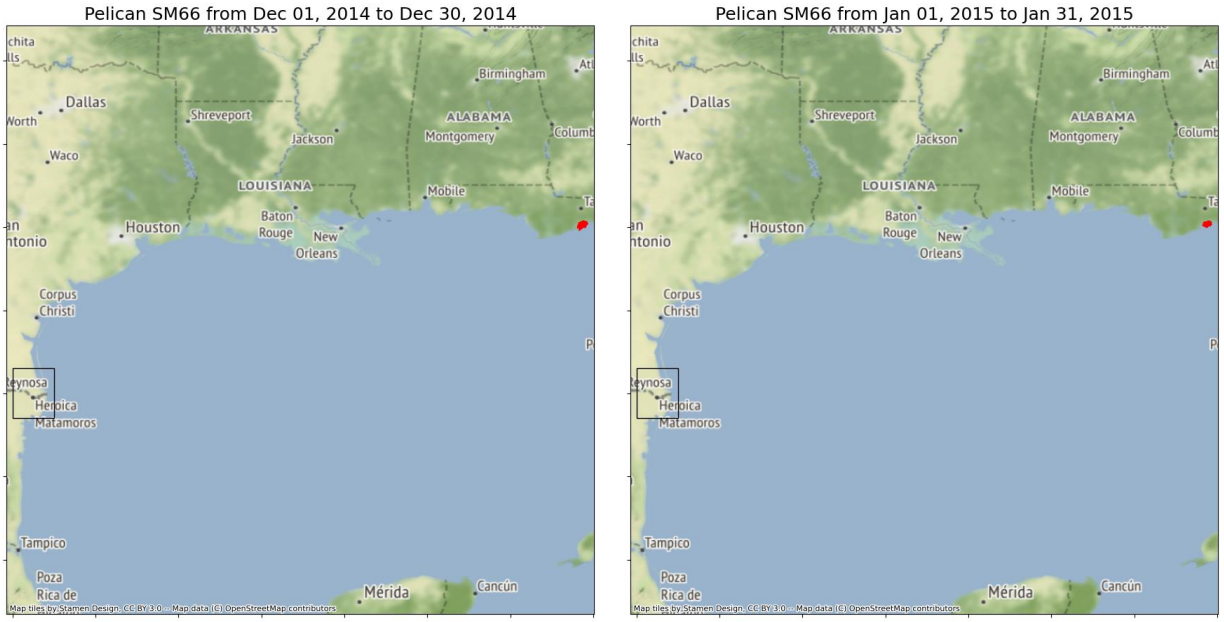

Figure 419 - Movements of SM66 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

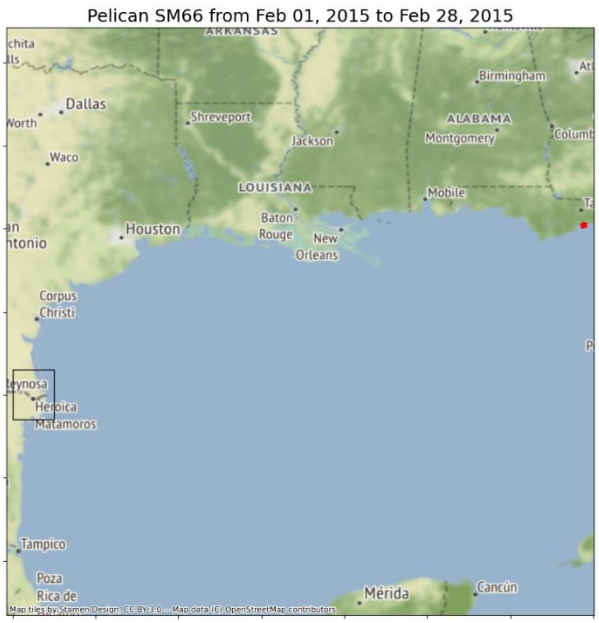

Figure 420 - Movements of SM66 between February 01, 2015 and February 28, 2015. Data from Lamb (2016)

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Pelican SM67 - Active from April 2014 to August 2015

Capture Date: April 21, 2014
Capture Location: Smith (FL)
Sex: M
Status: rearing chick
Days Active: 490

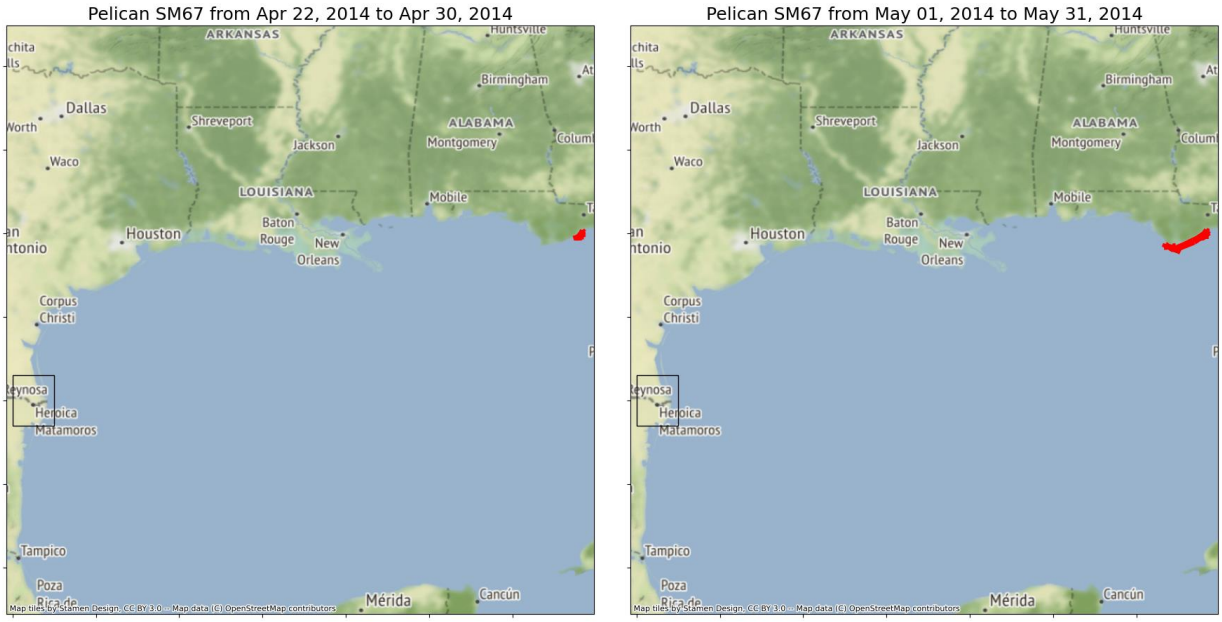

Figure 421 - Movements of SM67 between April 22, 2014 and May 31, 2014. Data from Lamb (2016)

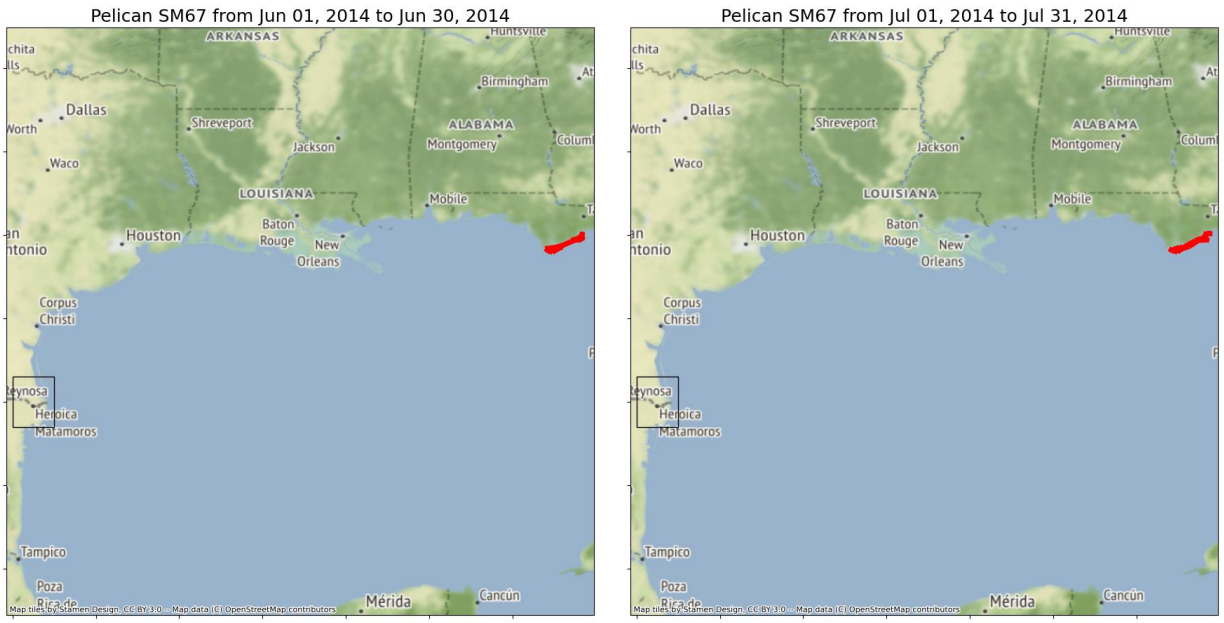

Figure 422 - Movements of SM67 between June 01, 2014 and July 31, 2014. Data from Lamb (2016)

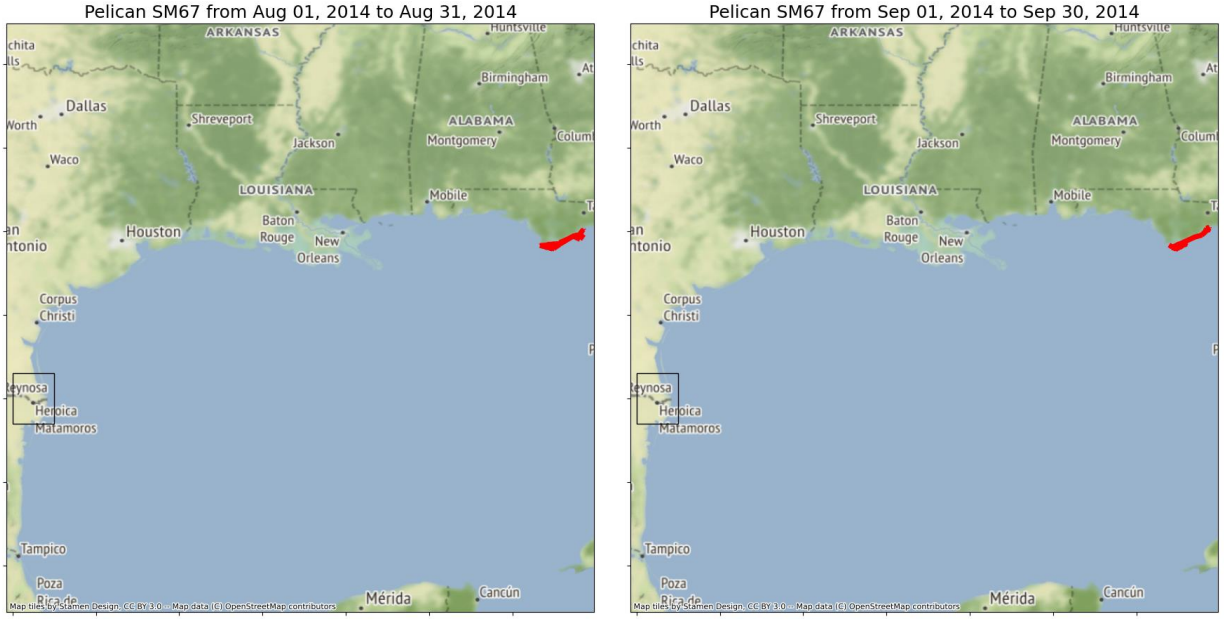

Figure 423 - Movements of SM67 between August 01, 2014 and September 30, 2014. Data from Lamb (2016)

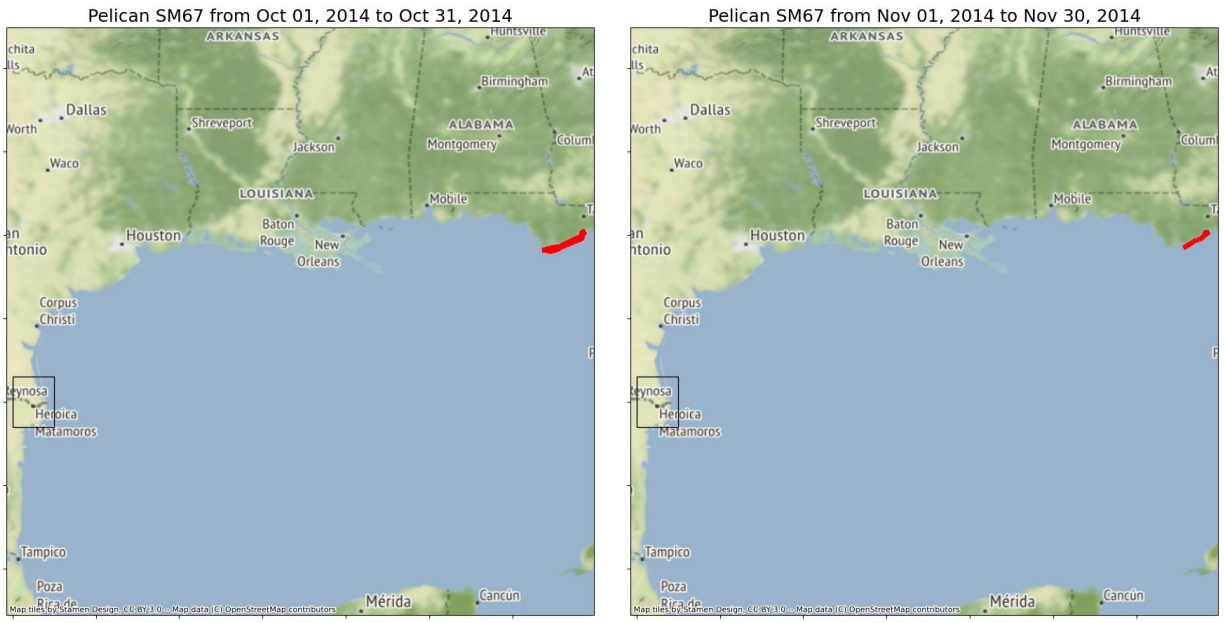

Figure 424 - Movements of SM67 between October 01, 2014 and November 30, 2014. Data from Lamb (2016)

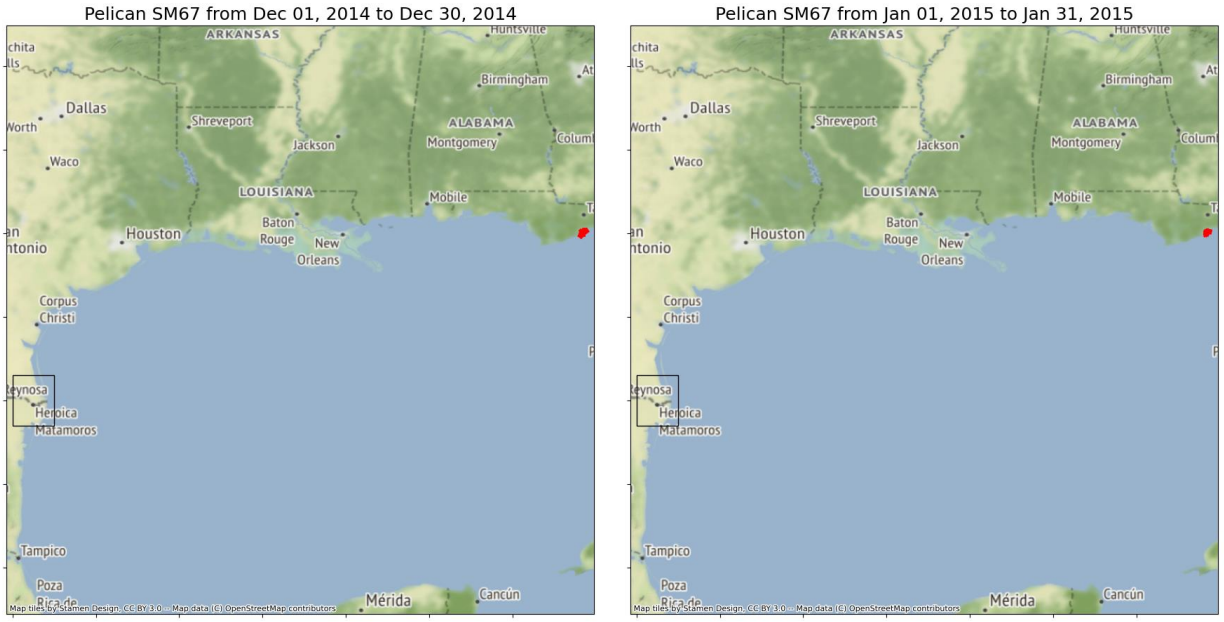

Figure 425 - Movements of SM67 between December 01, 2014 and January 31, 2015. Data from Lamb (2016)

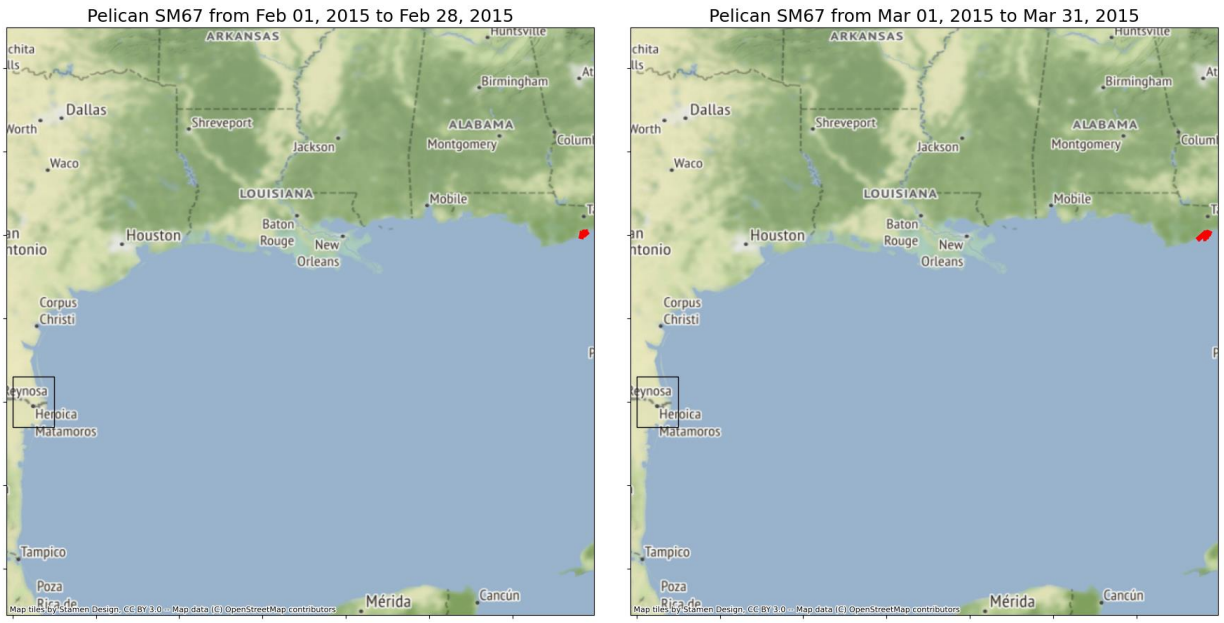

Figure 426 - Movements of SM67 between February 01, 2015 and March 31, 2015. Data from Lamb (2016)

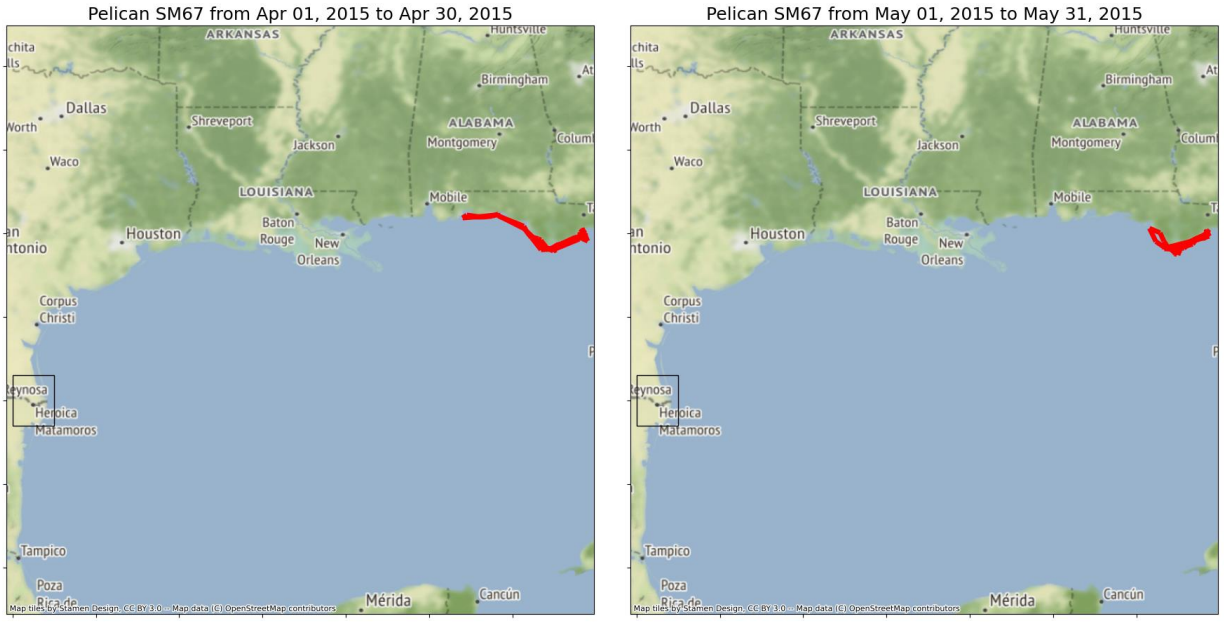

Figure 427 - Movements of SM67 between April 01, 2015 and May 31, 2015. Data from Lamb (2016)

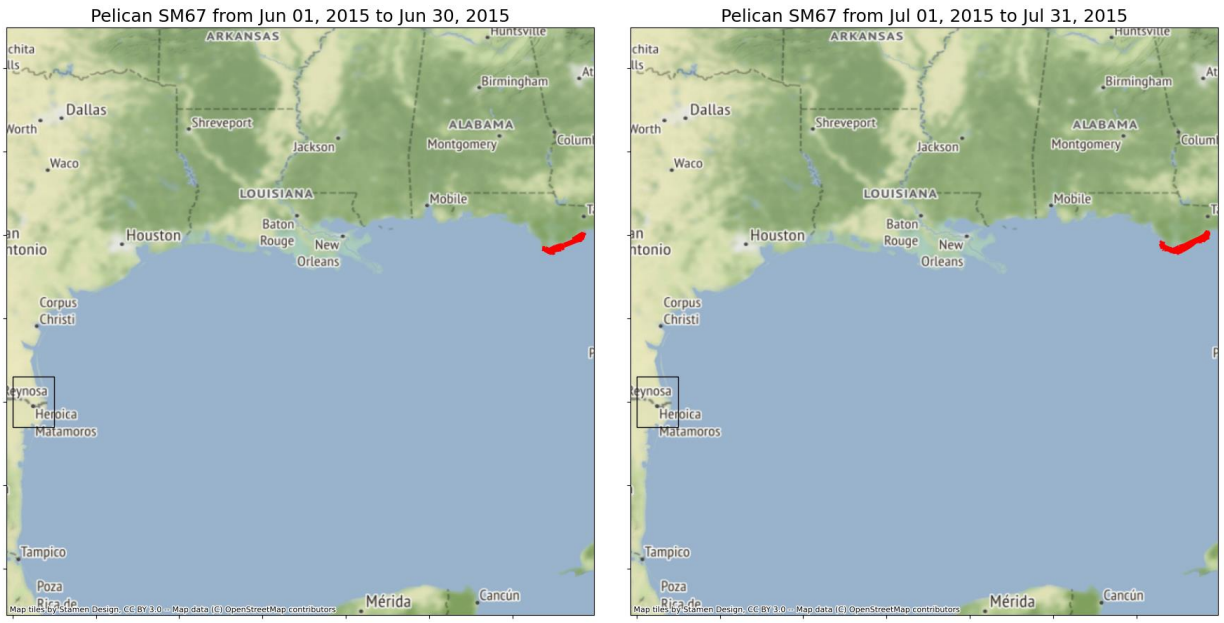

Figure 428 - Movements of SM67 between June 01, 2015 and July 31, 2015. Data from Lamb (2016)

(Back to *Summary of Seasonal Movements*)

Pelican SM68 - Active from April 2014 to March 2015

Capture Date: April 22, 2014
Capture Location: Smith (FL)
Sex: M
Status: rearing chick
Days Active: 314

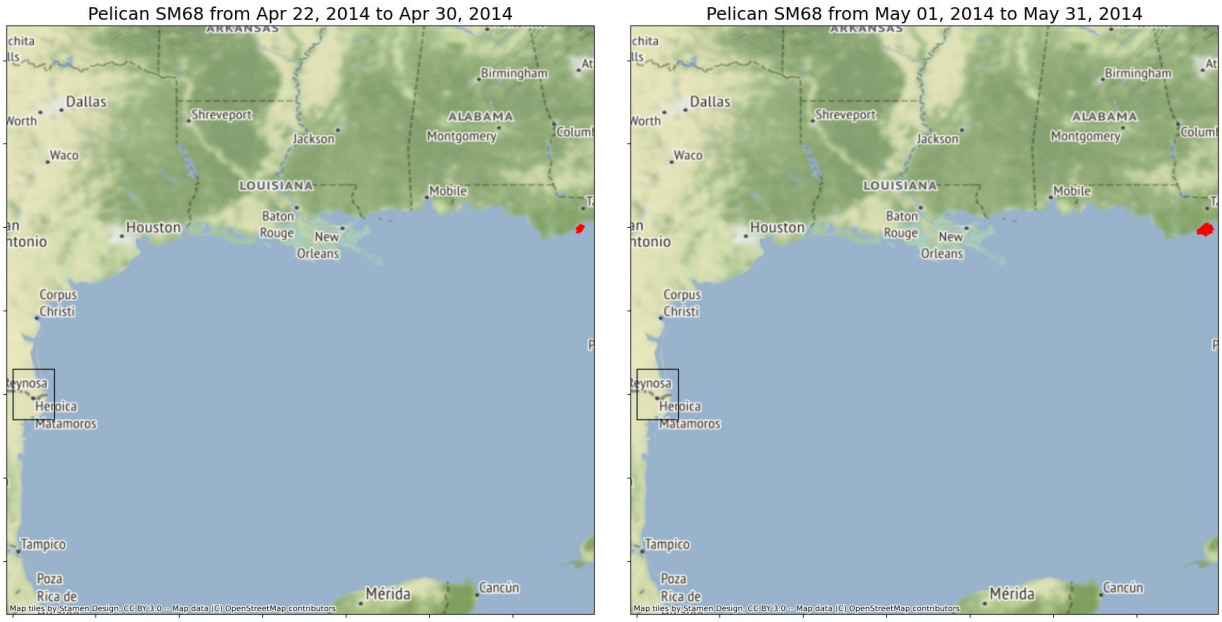

Figure 429 - Movements of SM68 between April 22, 2014 and May 31, 2014. Data from Lamb (2016)

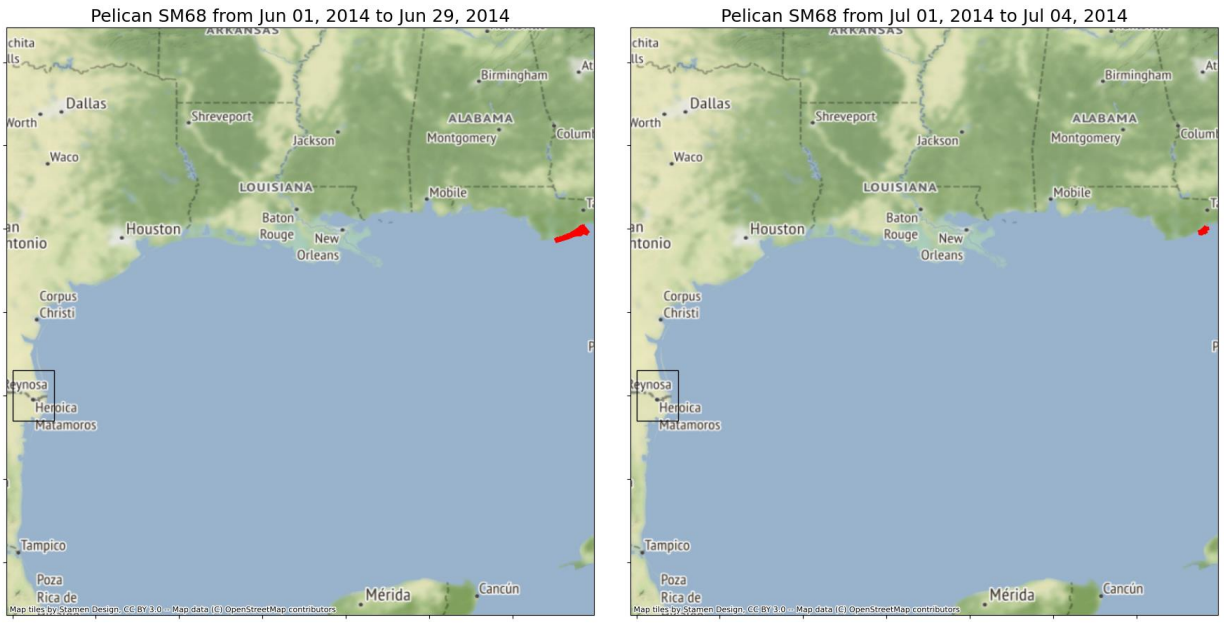

Figure 430 - Movements of SM68 between June 01, 2014 and July 04, 2014. Data from Lamb (2016)

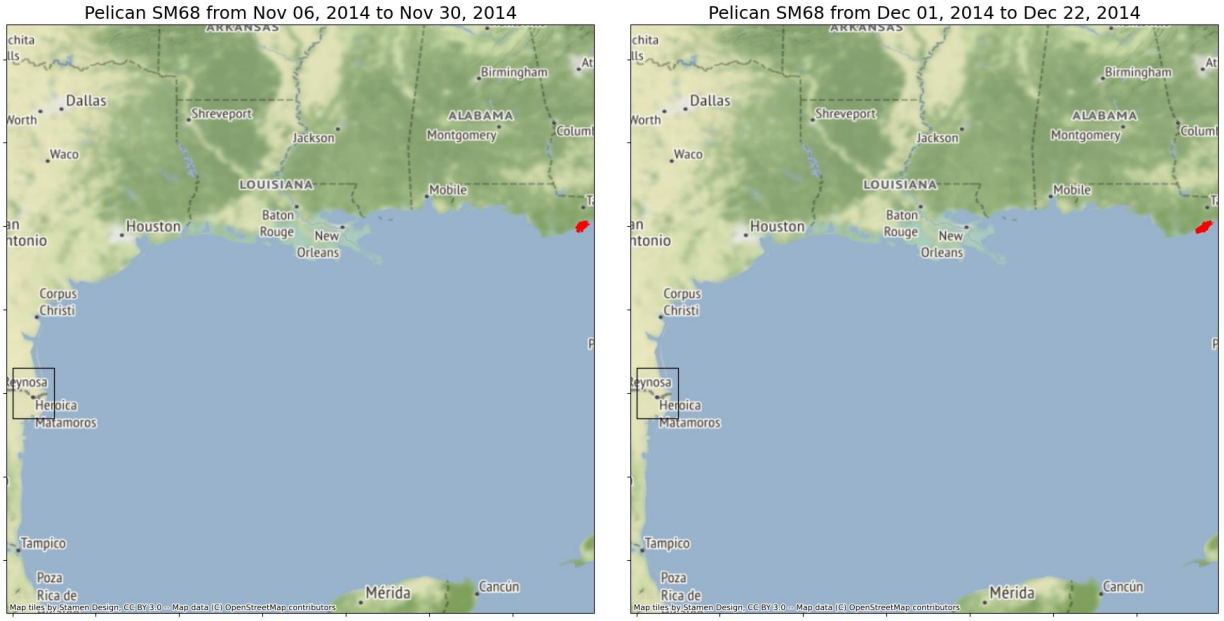

Figure 431 - Movements of SM68 between November 06, 2014 and December 22, 2014. Data from Lamb (2016)

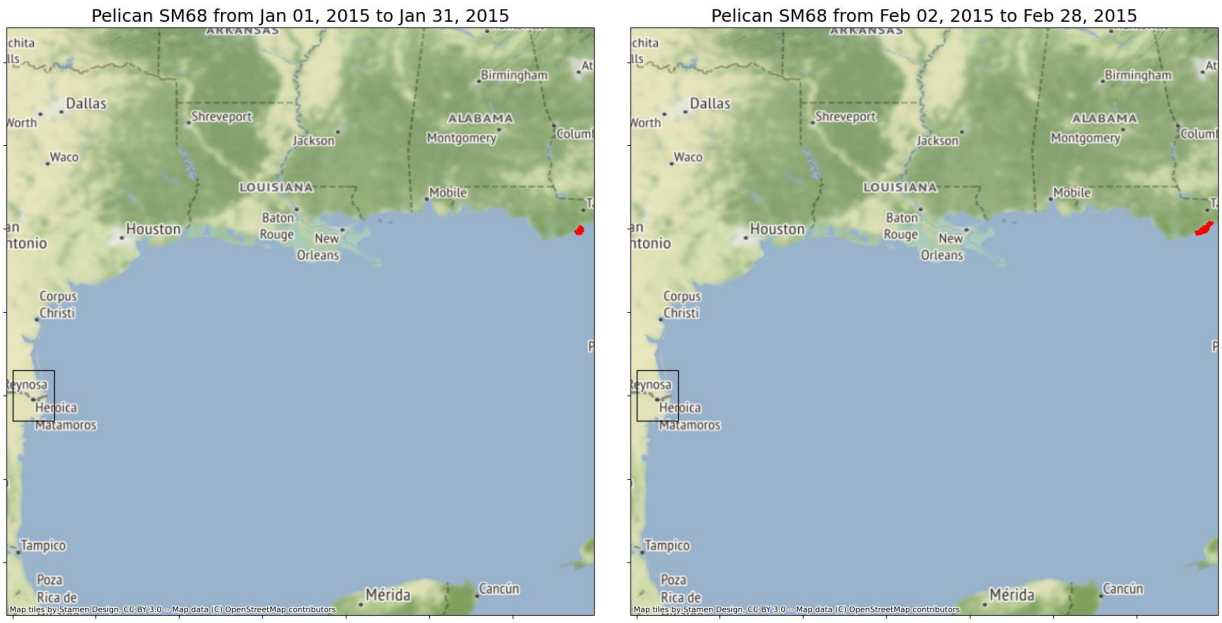

Figure 432 - Movements of SM68 between January 01, 2015 and February 28, 2015. Data from Lamb (2016)

(Back to *Summary of Seasonal Movements*)

COMPLETE HISTORY OF DAILY MOVEMENTS OF BROWN PELICANS

This section contains maps showing the detailed daily movement patterns of pelicans that were global positioning system (GPS)-tracked during this study. The purpose of this appendix is to provide a full record of all GPS data captured during this project via simple, standardized maps. Each map shows the daily activities of a single pelican over a five-day period. This movement is represented by colored lines, with arrows indicating the direction of movement. To provide additional context, the map panels also contain graphs showing the total displacement of each pelican during each hour of a day, the pelicans distance from shore (during each hour of a day), and hourly temperature, windspeed and wind direction.

The maps were generated using algorithms developed in the Python programming language by merging the pelican GPS data with local weather station data and 30-meter resolution distance from land and distance from water GIS files covering the full range of the pelican habitat[4]. Finally, the maps and graphs were automatically generated using graphing libraries and stored to digital image files.

DAILY MOVEMENTS OF TRACKED PELICANS

The following subsections provide a complete view of all pelican activities tracked by GPS during this study. Each subsection provides the daily activities of a single pelican from the time that it was caught to the time at which it ceased to provide valid GPS data. The sections are presented in chronological order based on capture date—from the first captured pelican to the last.

Each section contains one or more figures. Each figure provides an overview of the pelican's activity over a 5-day period. Each figure comprises two maps. The right-hand map shows the pelican's location with the gulf coast area during the five-day period. The left-hand map provides detailed movements of each pelican over the same five days. Movements are represented by colored arrows where each color represents activity for a single day. The colored arrows enabled the researchers to infer roost sites (marked by the start and end points of a colored set of arrows), and to follow the direction of movement within the course of a day.

[4] A rasterized land-use landcover 30 m resolution GIS file (Globeland30) was used to calculate the distance from shore and distance from water metrics. (http://www.globallandcover.com/home_en.html)

Pelican F7A1 - Active from December 18, 2017 to December 31, 2017

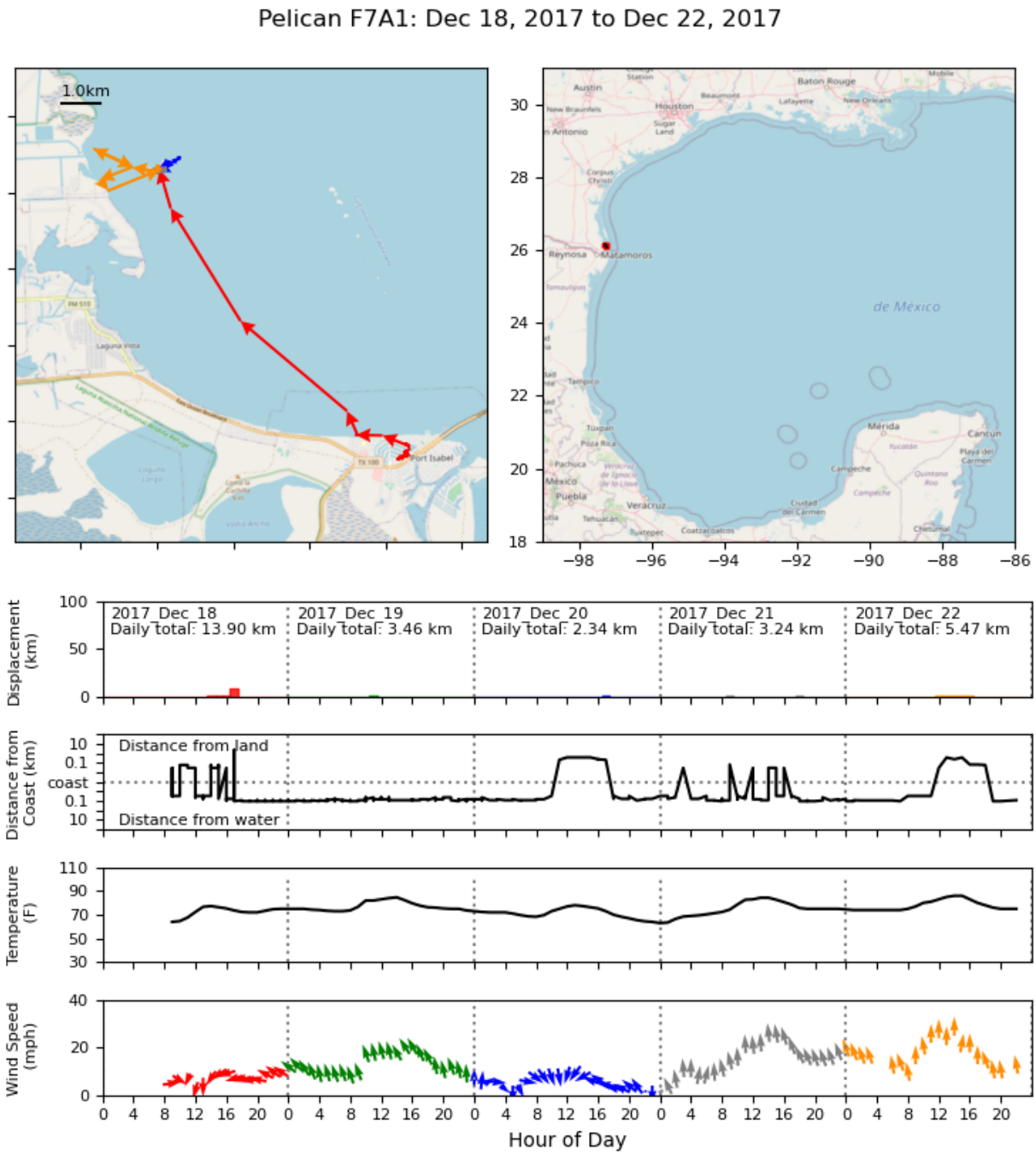

Figure 433 - Maps and graphs showing movements of F7A1 between 2017-12-18 and 2017-12-21 inclusive.

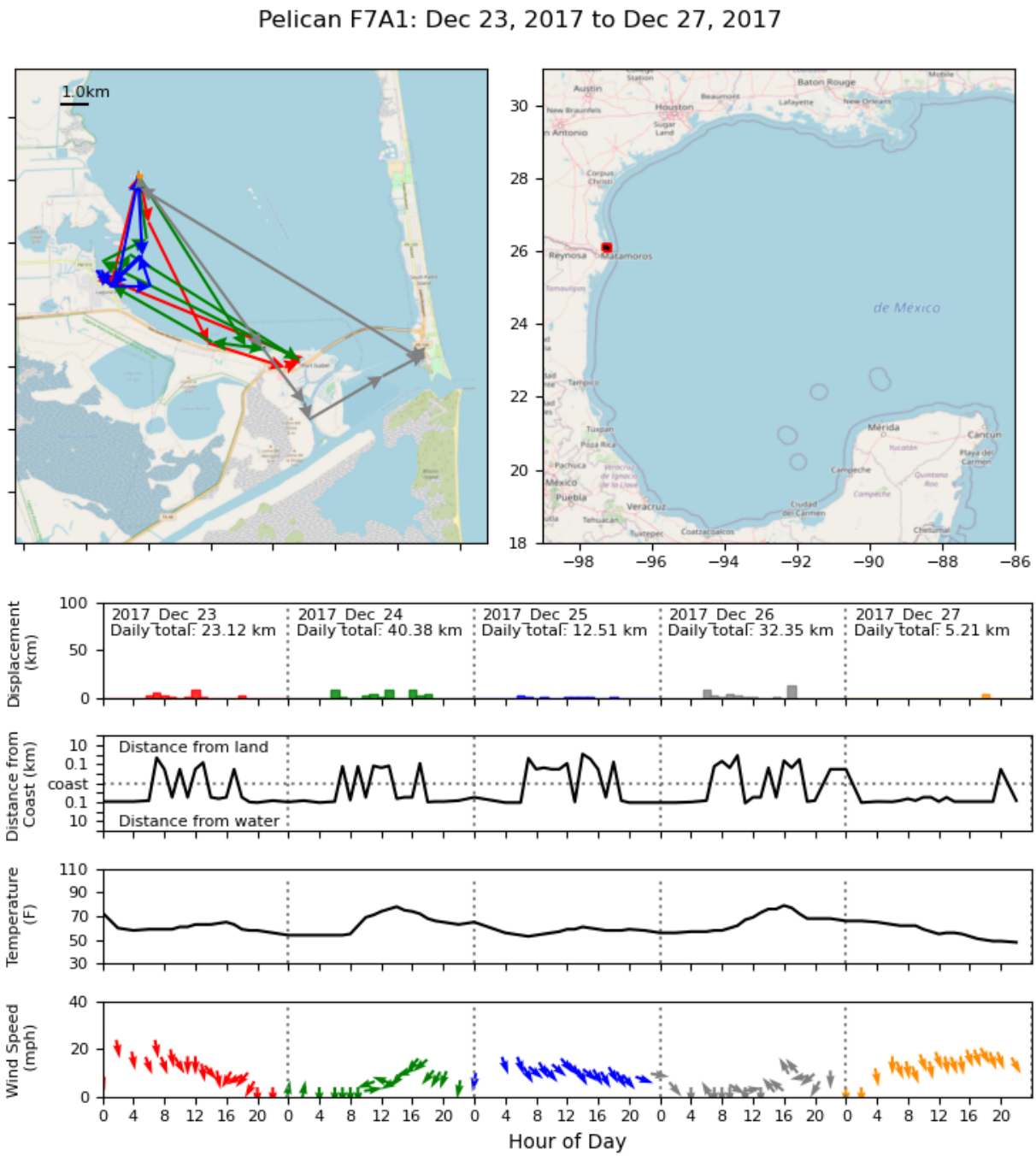

Figure 434 - Maps and graphs showing movements of F7A1 between 2017-12-23 and 2017-12-26 inclusive.

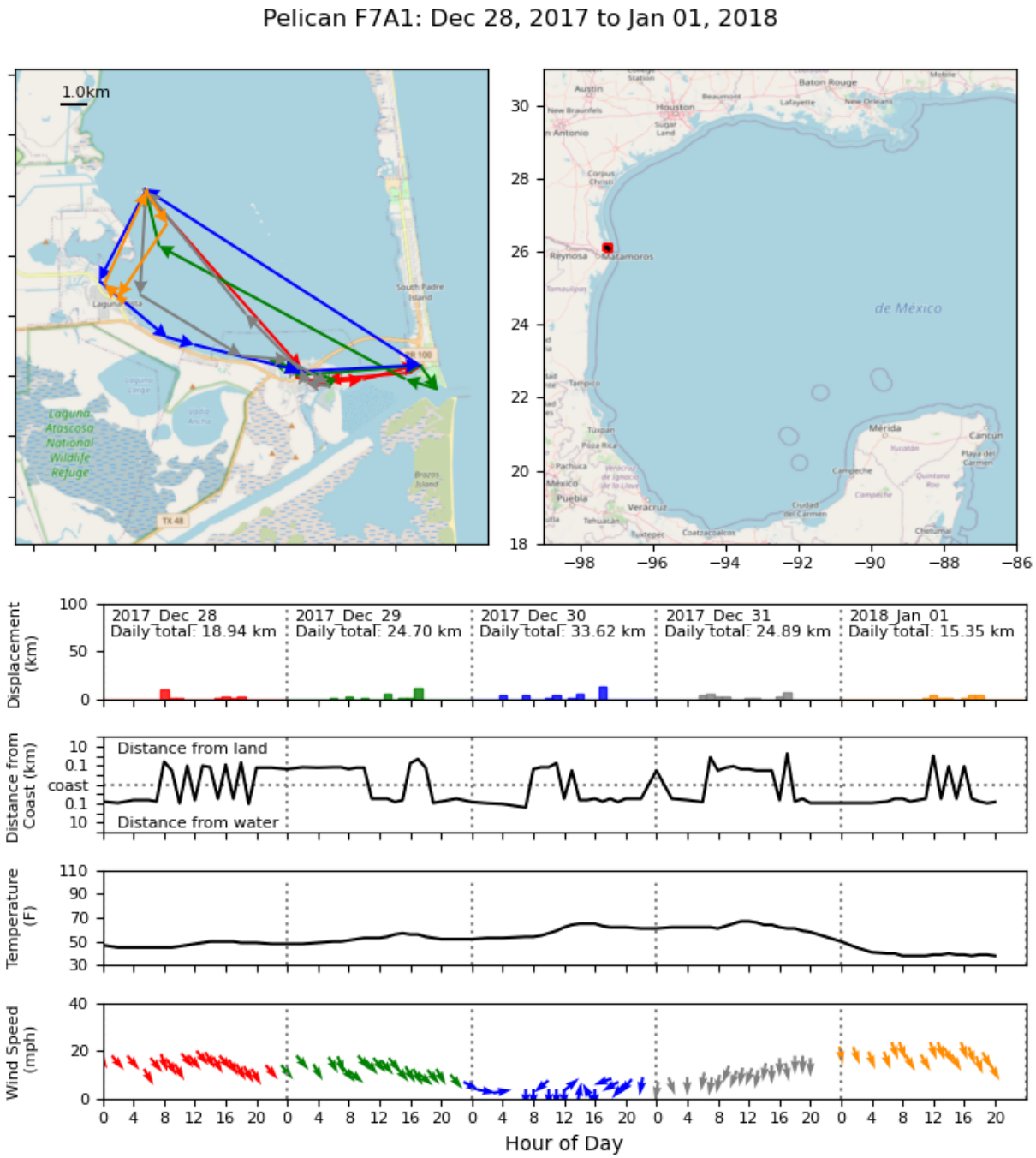

Figure 435 - Maps and graphs showing movements of F7A1 between 2017-12-28 and 2017-12-31 inclusive.

Pelican 163A - Active from January 10, 2018 to Present (November 23, 2020)

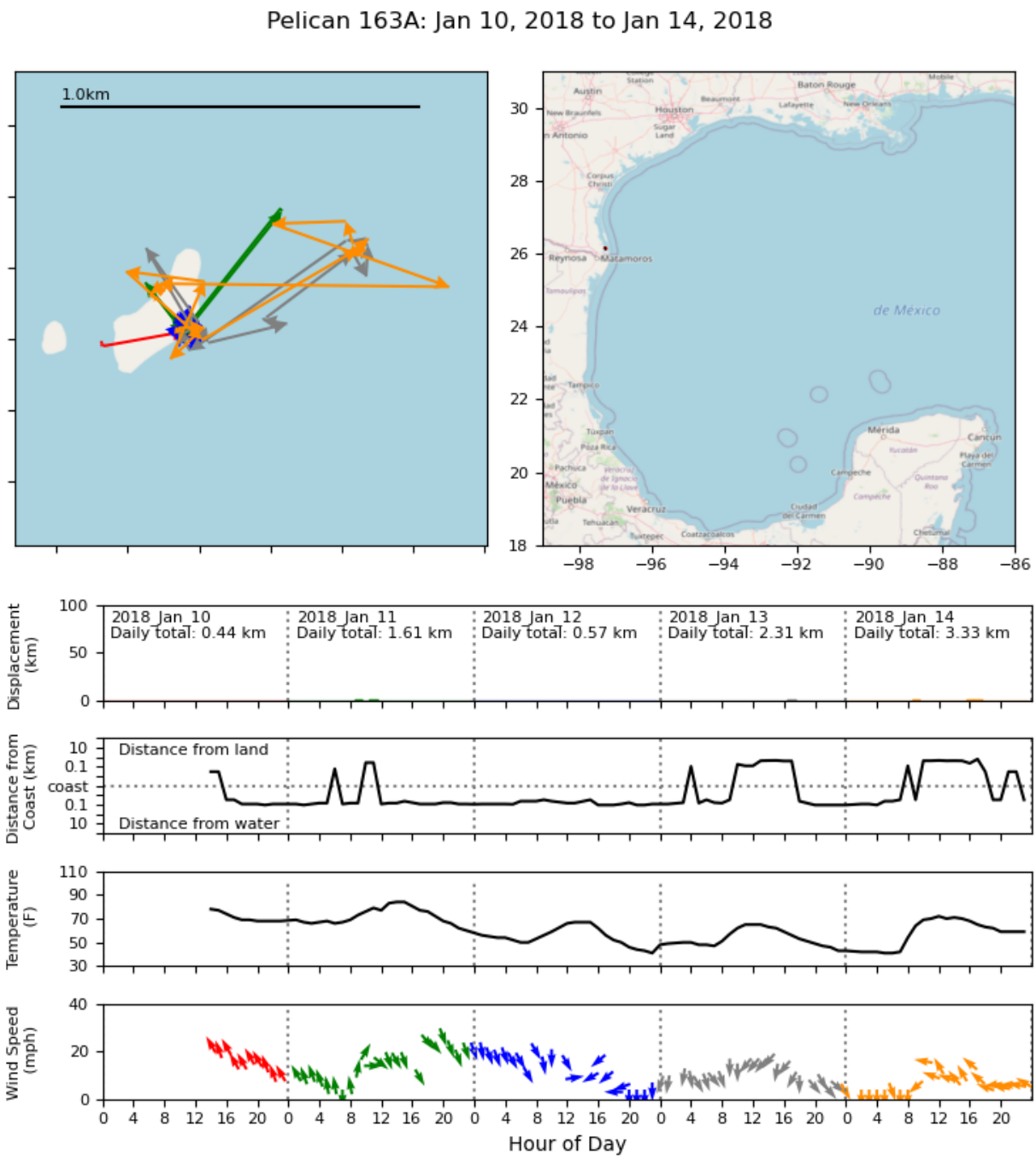

Figure 436 - Maps and graphs showing movements of 163A between 2018-01-10 and 2018-01-13 inclusive.

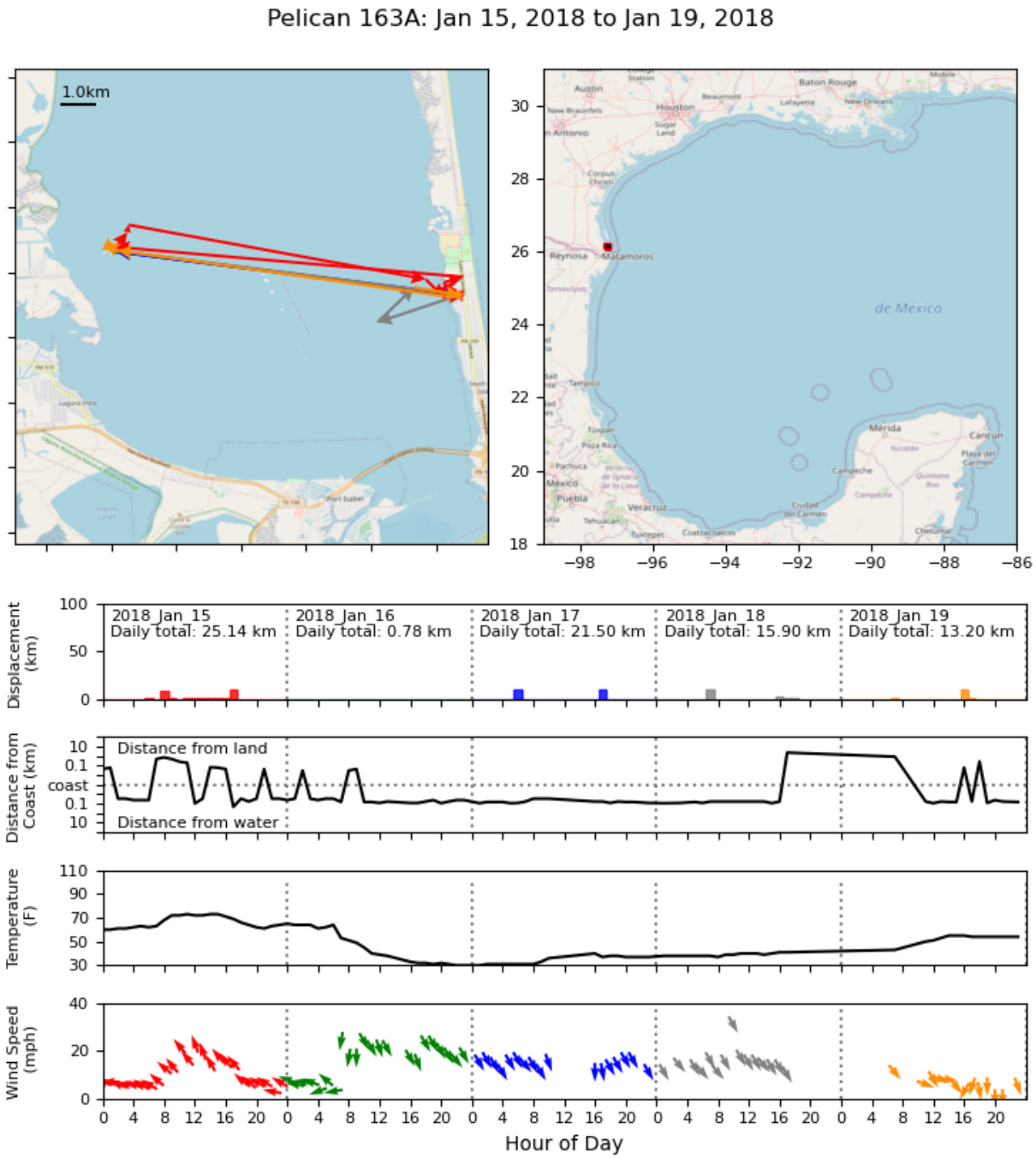

Figure 437 - Maps and graphs showing movements of 163A between 2018-01-15 and 2018-01-18 inclusive.

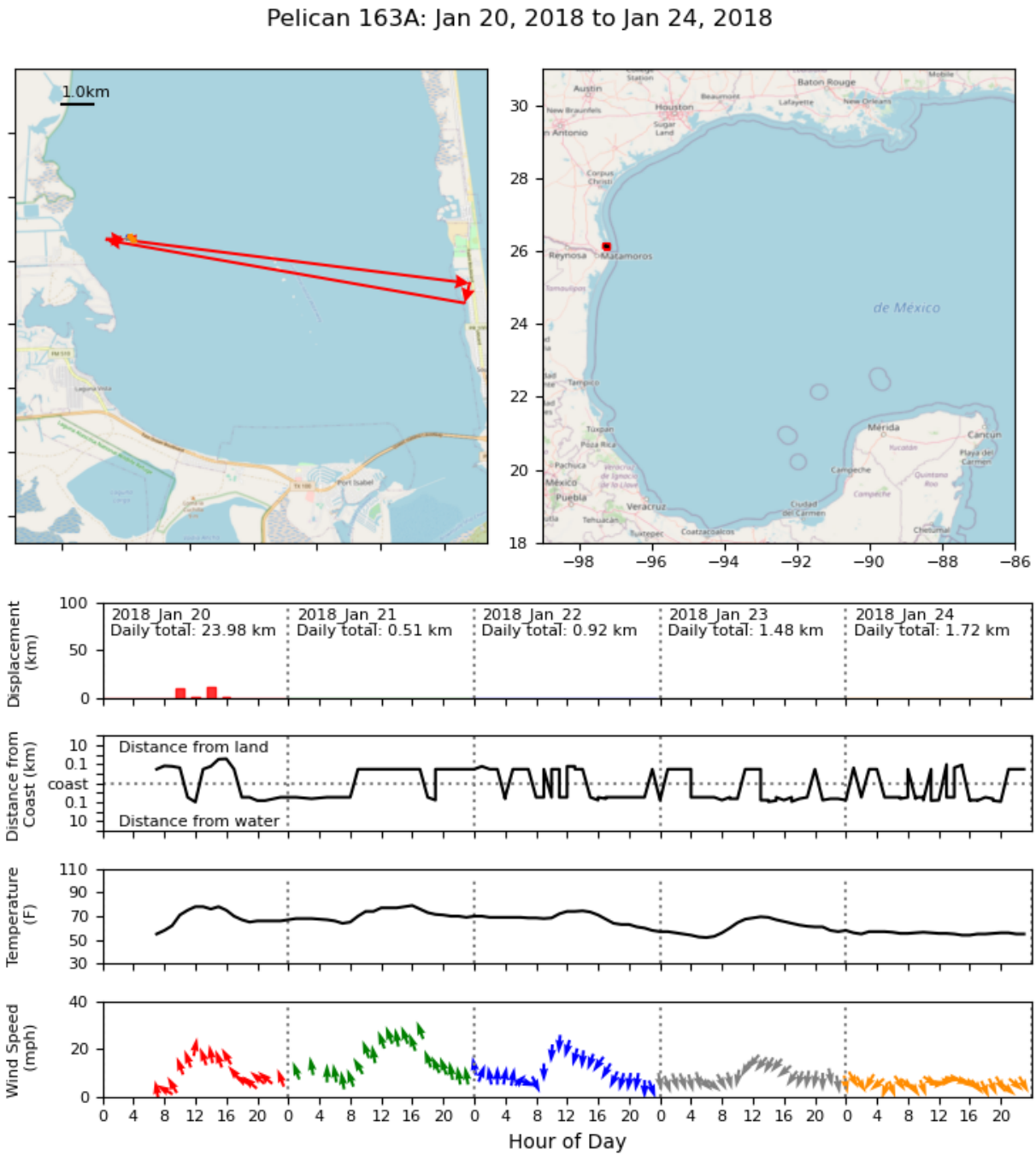

Figure 438 - Maps and graphs showing movements of 163A between 2018-01-20 and 2018-01-23 inclusive.

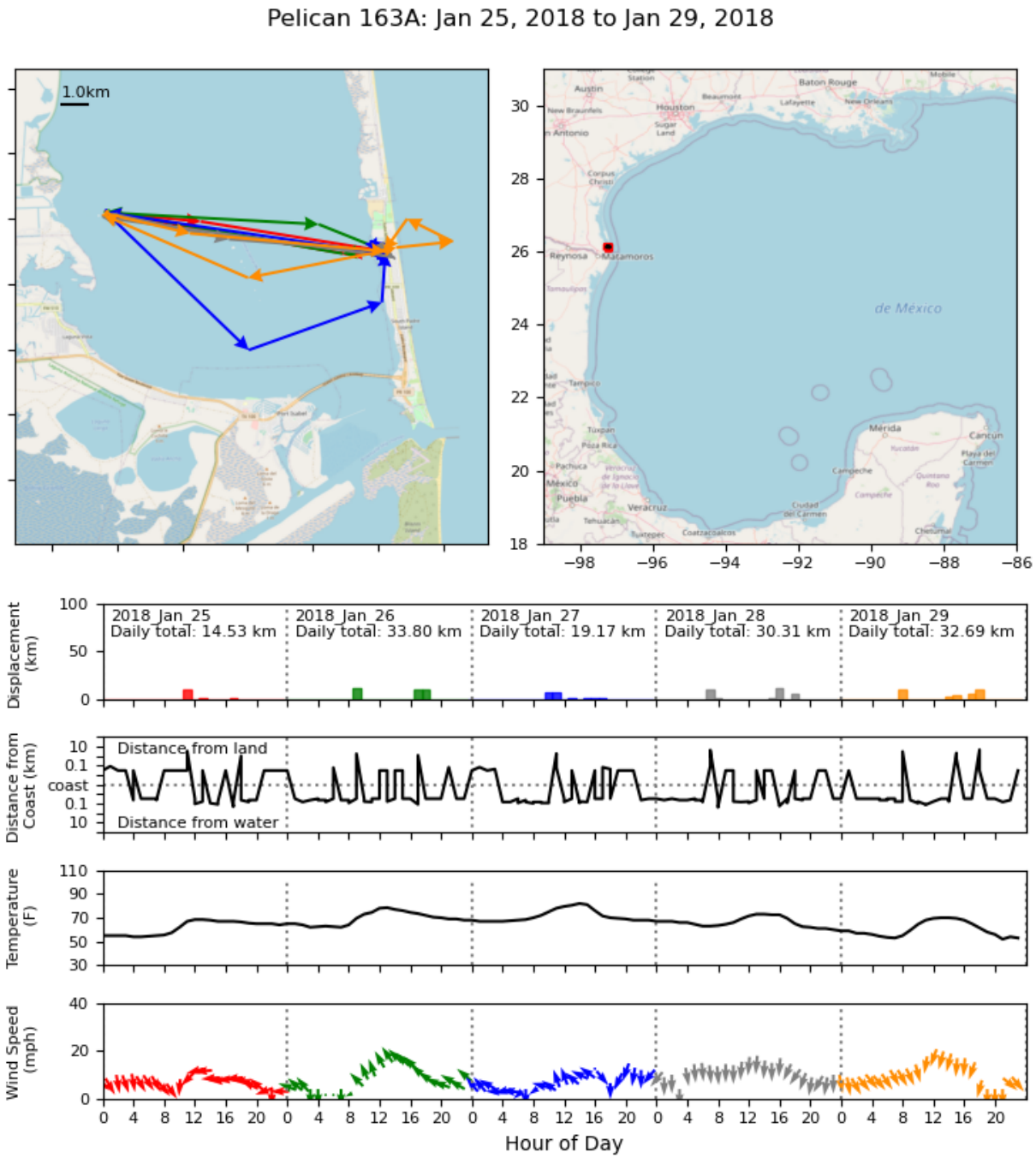

Figure 439 - Maps and graphs showing movements of 163A between 2018-01-25 and 2018-01-28 inclusive.

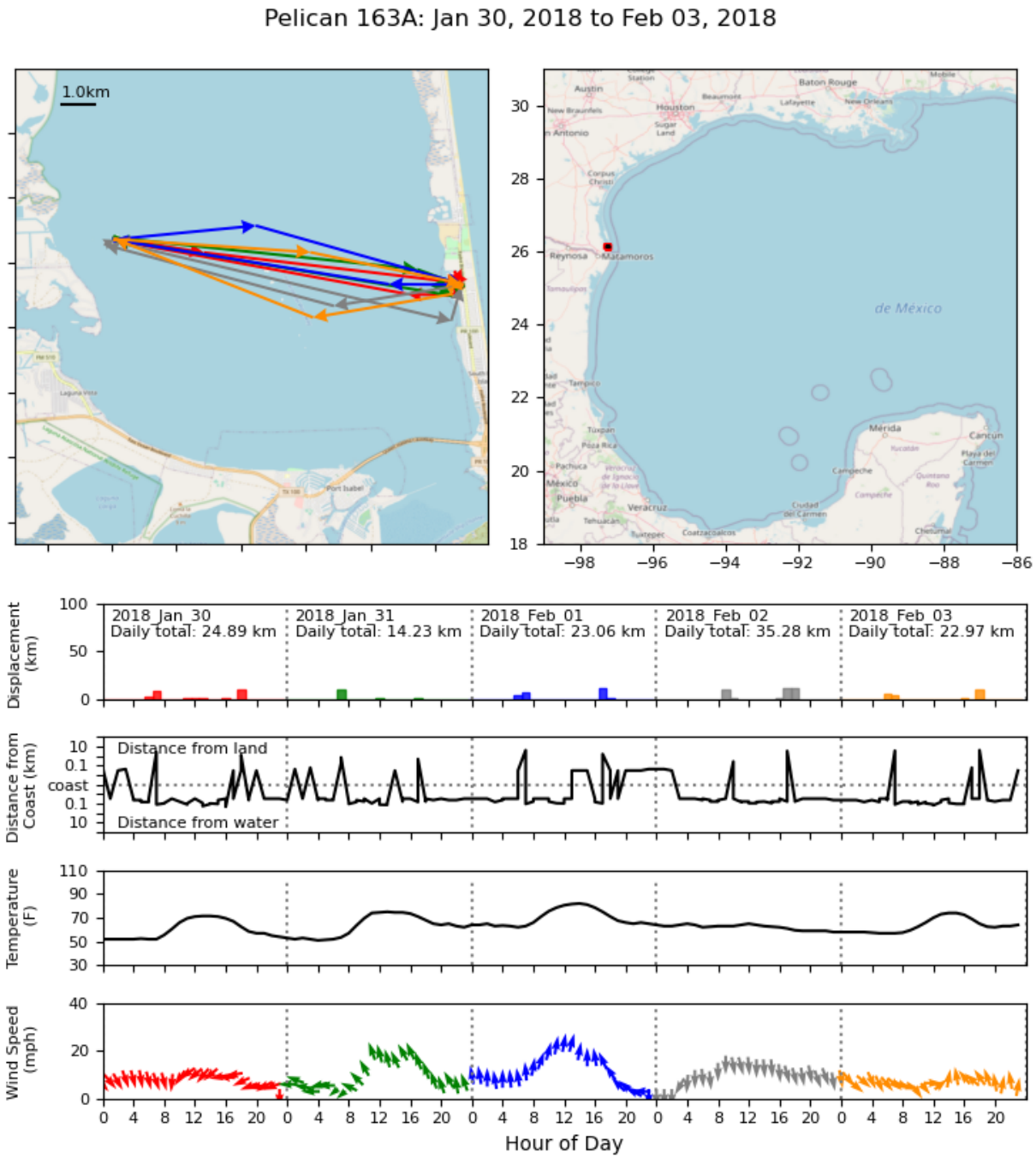

Figure 440 - Maps and graphs showing movements of 163A between 2018-01-30 and 2018-02-02 inclusive.

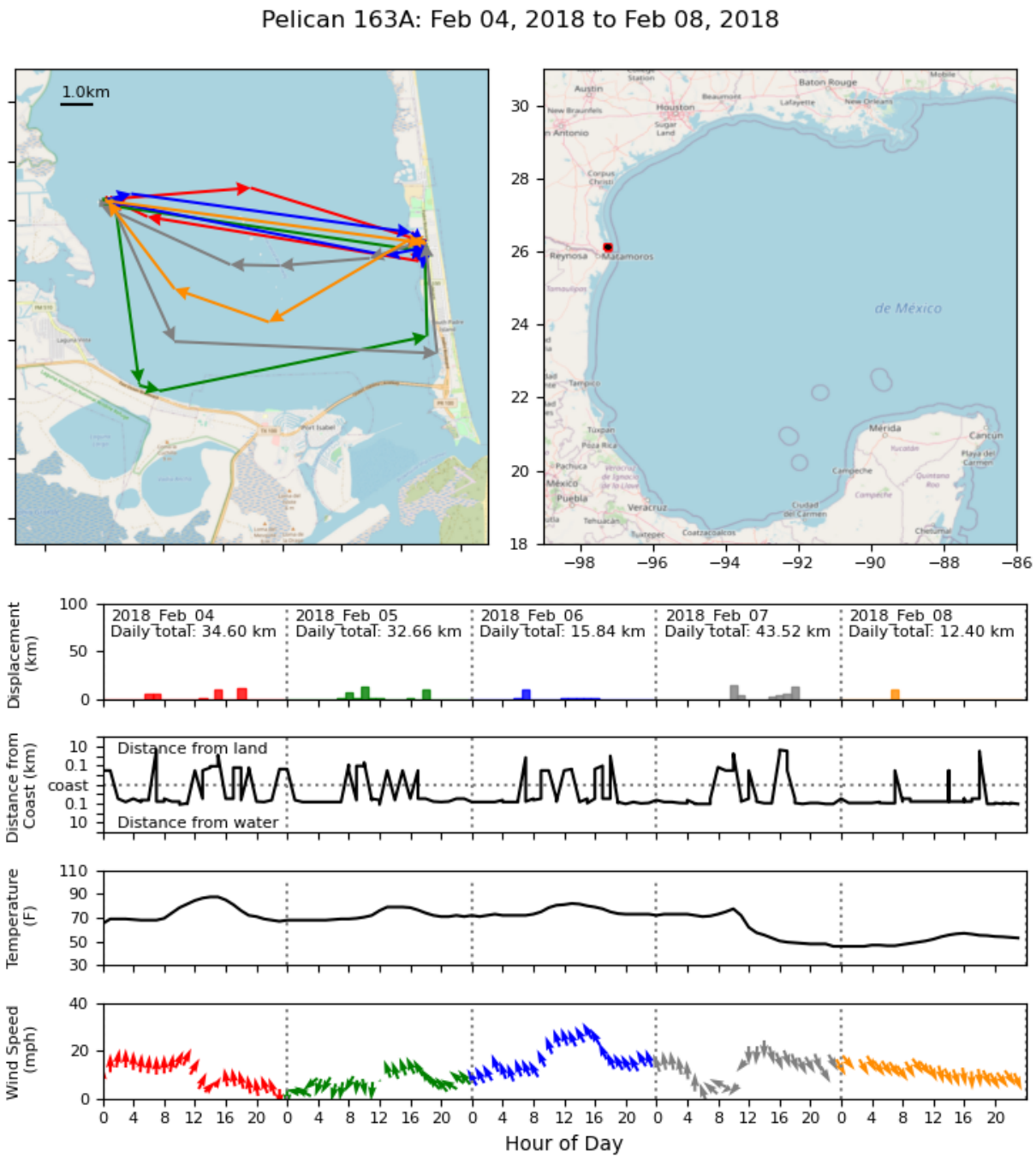

Figure 441 - Maps and graphs showing movements of 163A between 2018-02-04 and 2018-02-07 inclusive.

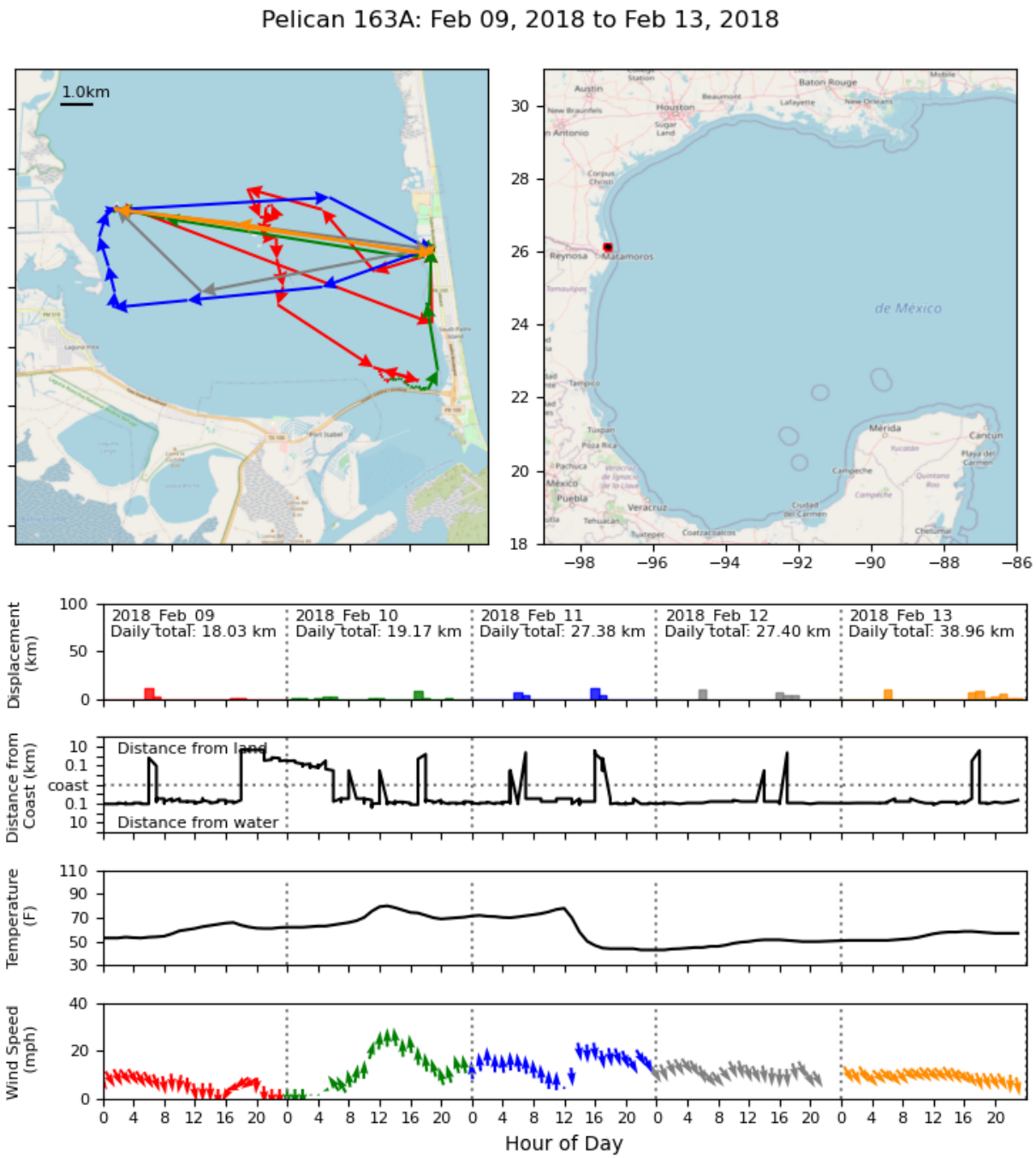

Figure 442 - Maps and graphs showing movements of 163A between 2018-02-09 and 2018-02-12 inclusive.

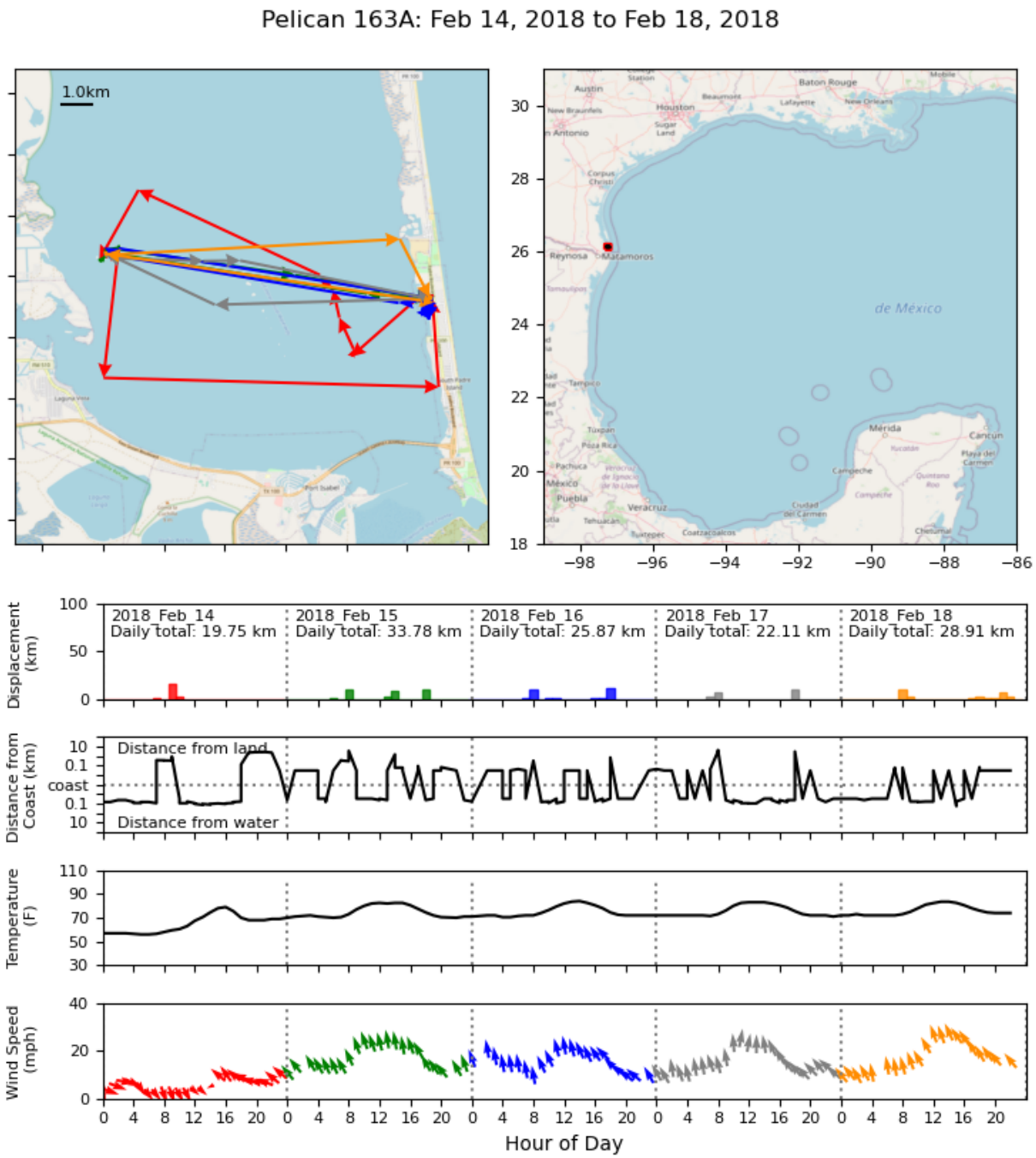

Figure 443 - Maps and graphs showing movements of 163A between 2018-02-14 and 2018-02-17 inclusive.

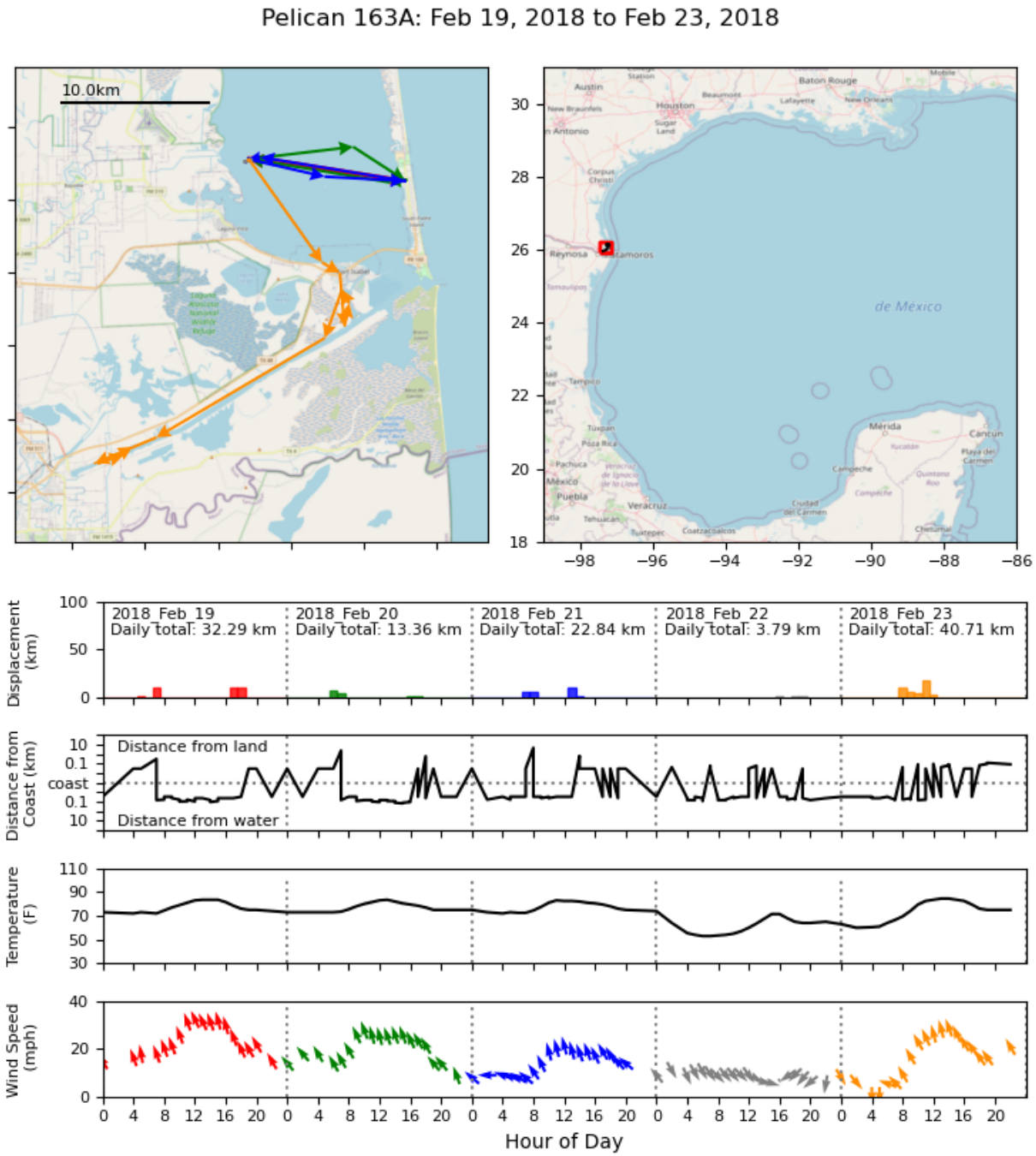

Figure 444 - Maps and graphs showing movements of 163A between 2018-02-19 and 2018-02-22 inclusive.

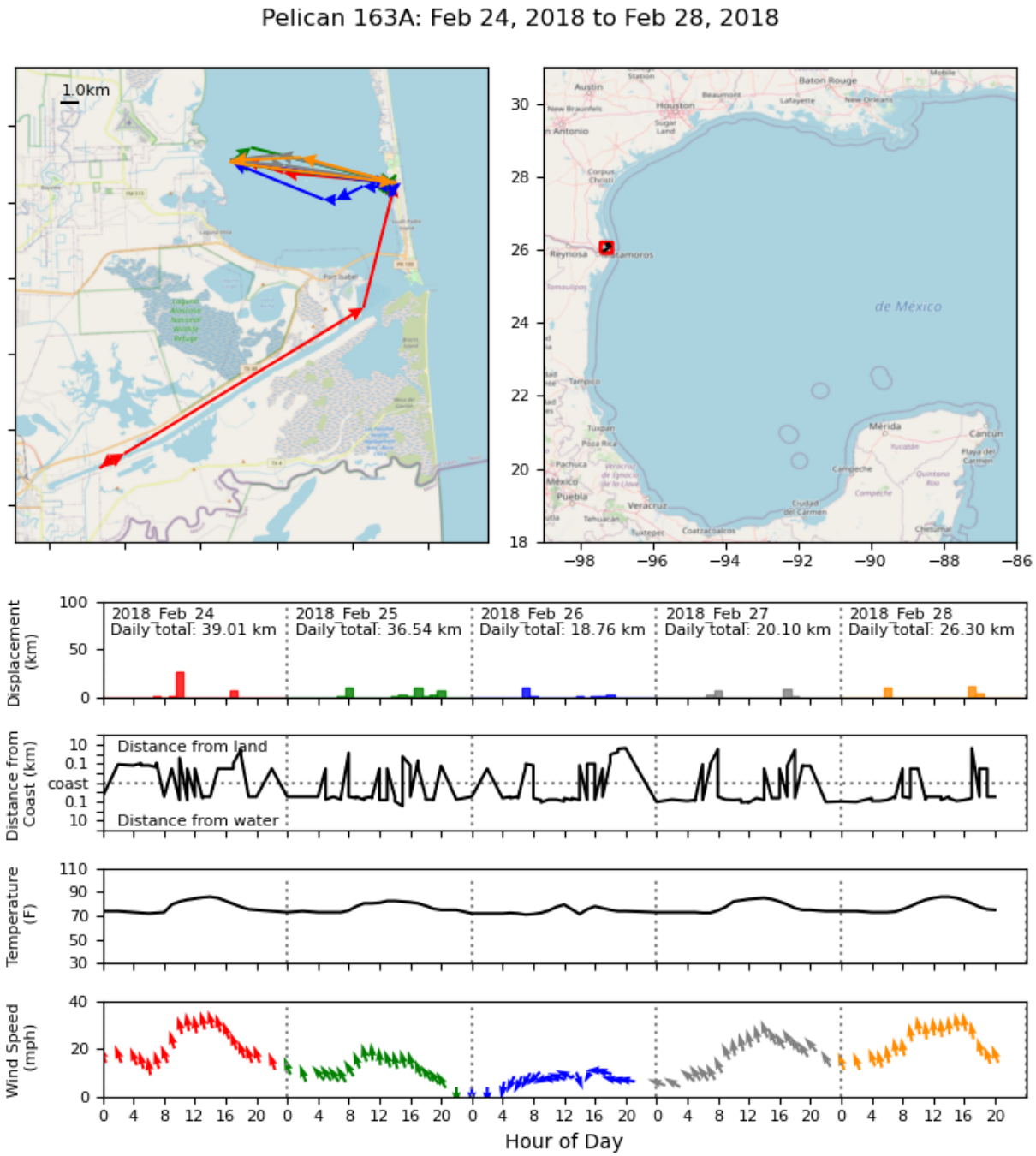

Figure 445 - Maps and graphs showing movements of 163A between 2018-02-24 and 2018-02-27 inclusive.

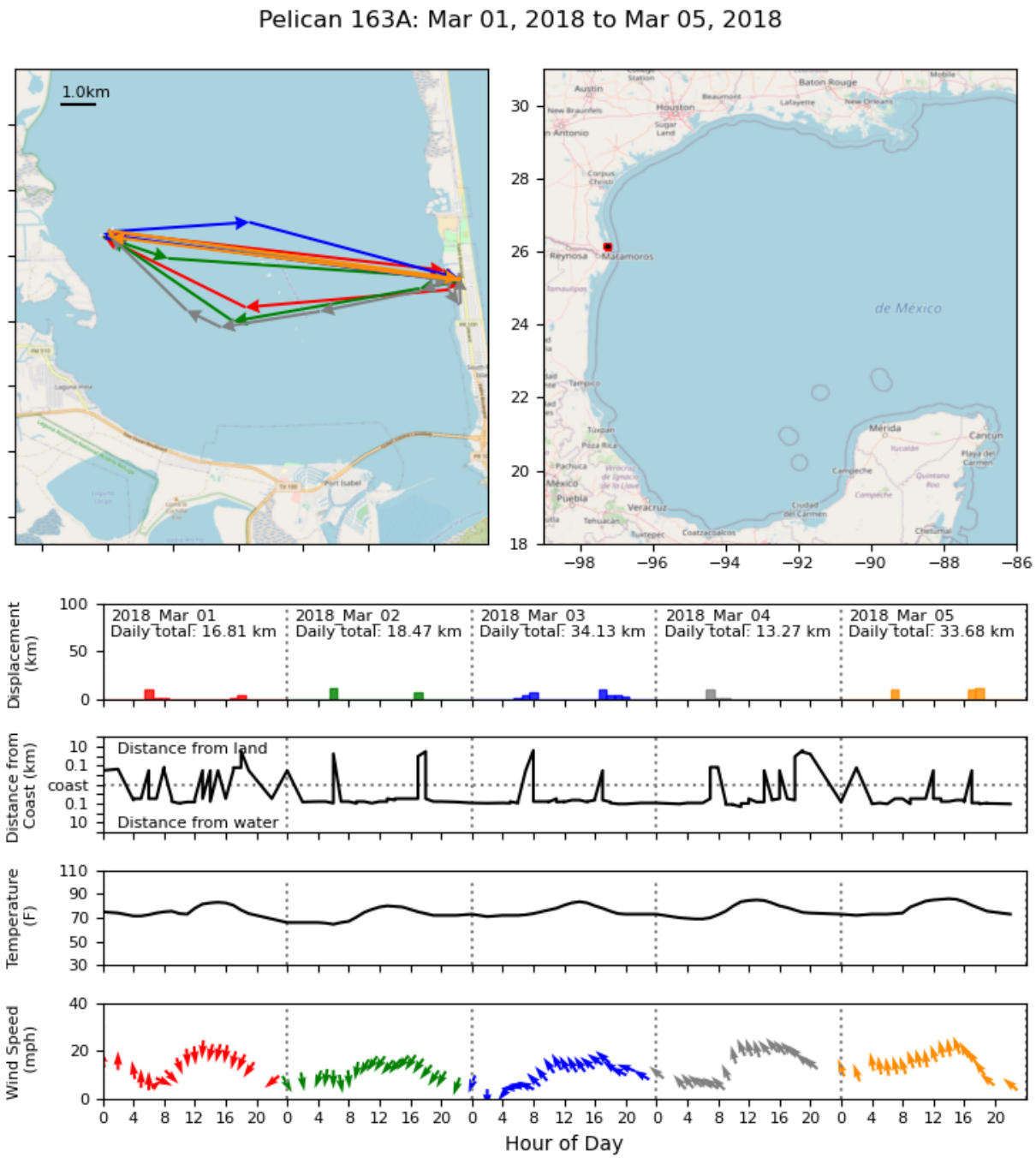

Figure 446 - Maps and graphs showing movements of 163A between 2018-03-01 and 2018-03-04 inclusive.

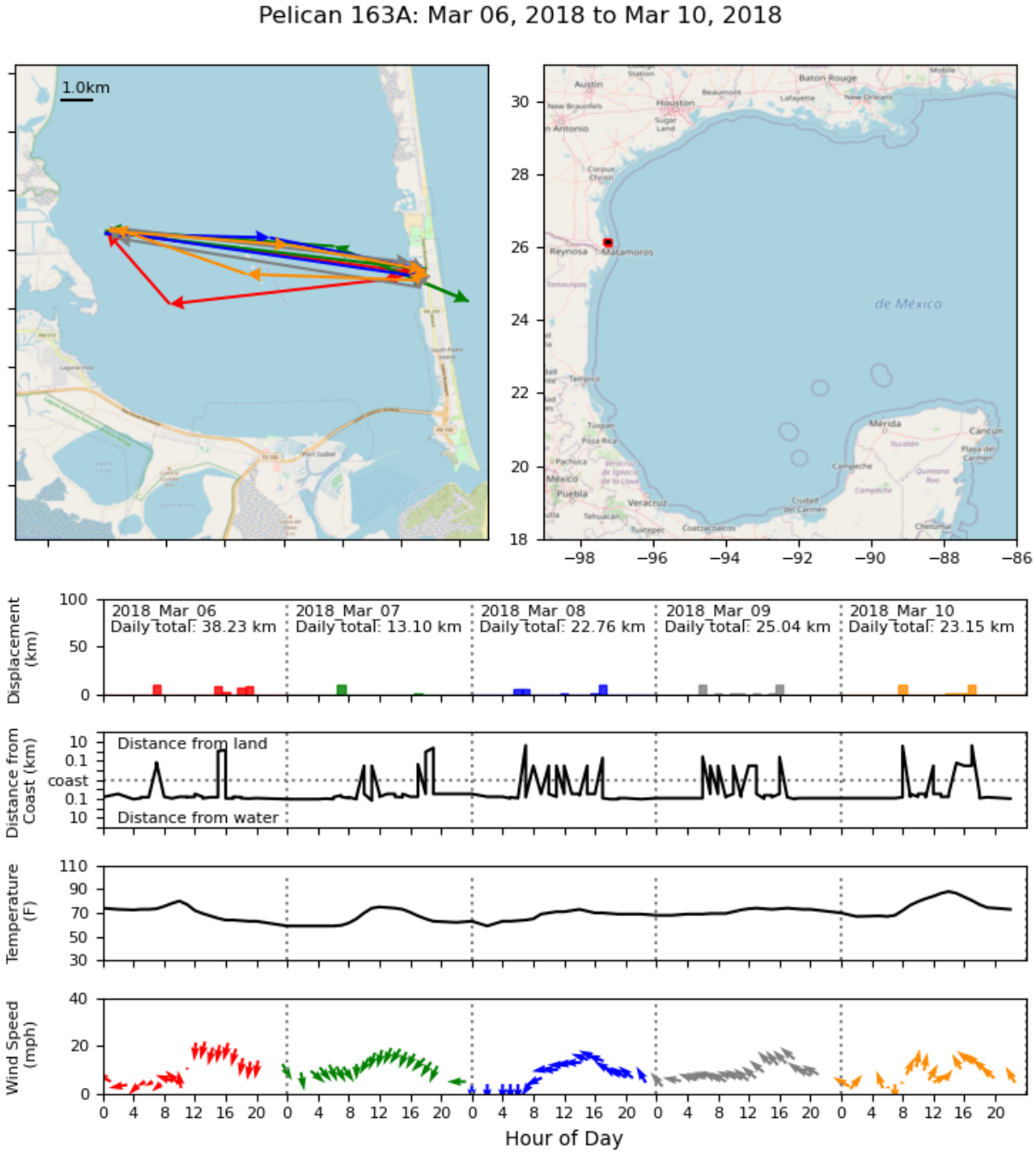

Figure 447 - Maps and graphs showing movements of 163A between 2018-03-06 and 2018-03-09 inclusive.

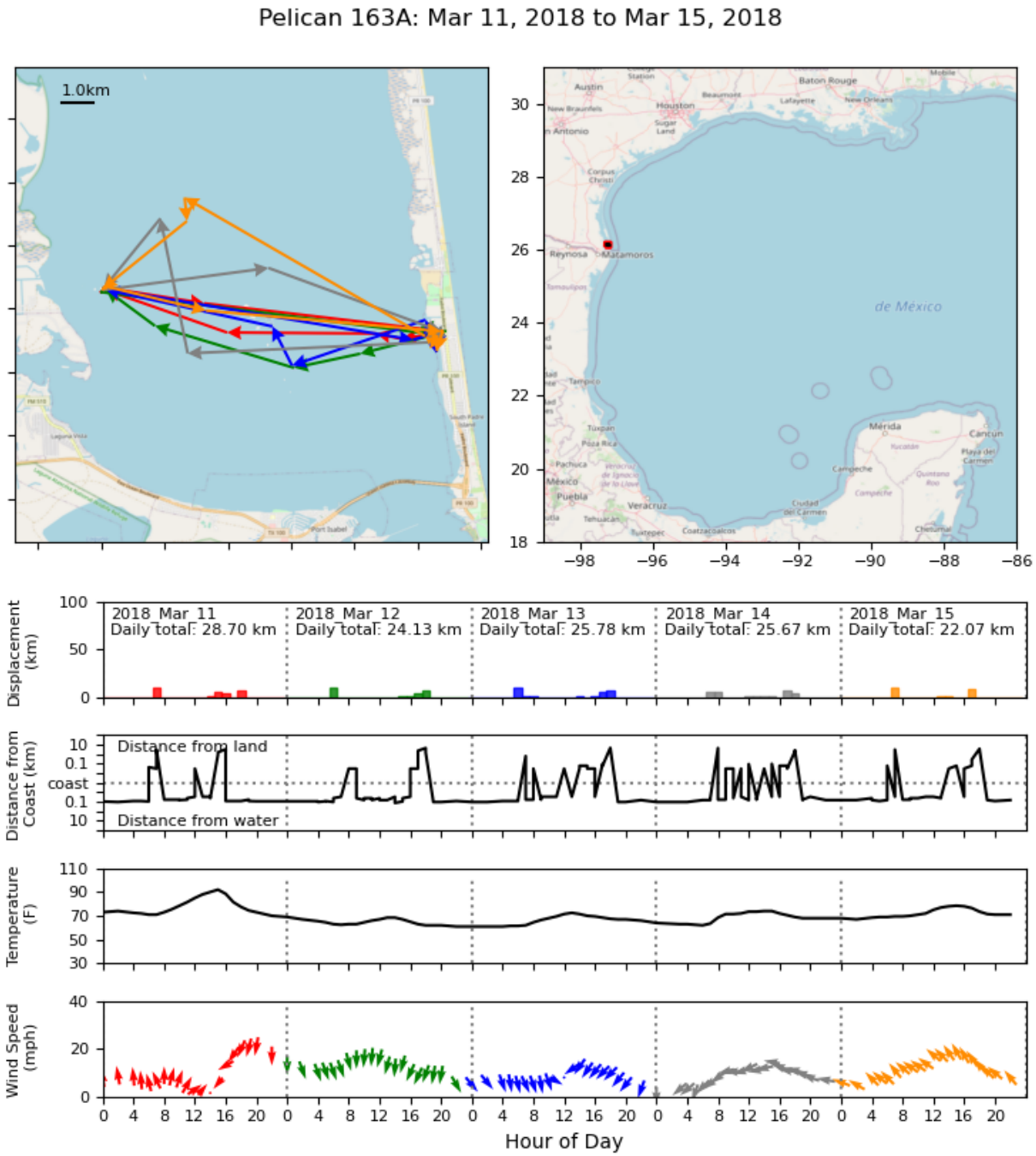

Figure 448 - Maps and graphs showing movements of 163A between 2018-03-11 and 2018-03-14 inclusive.

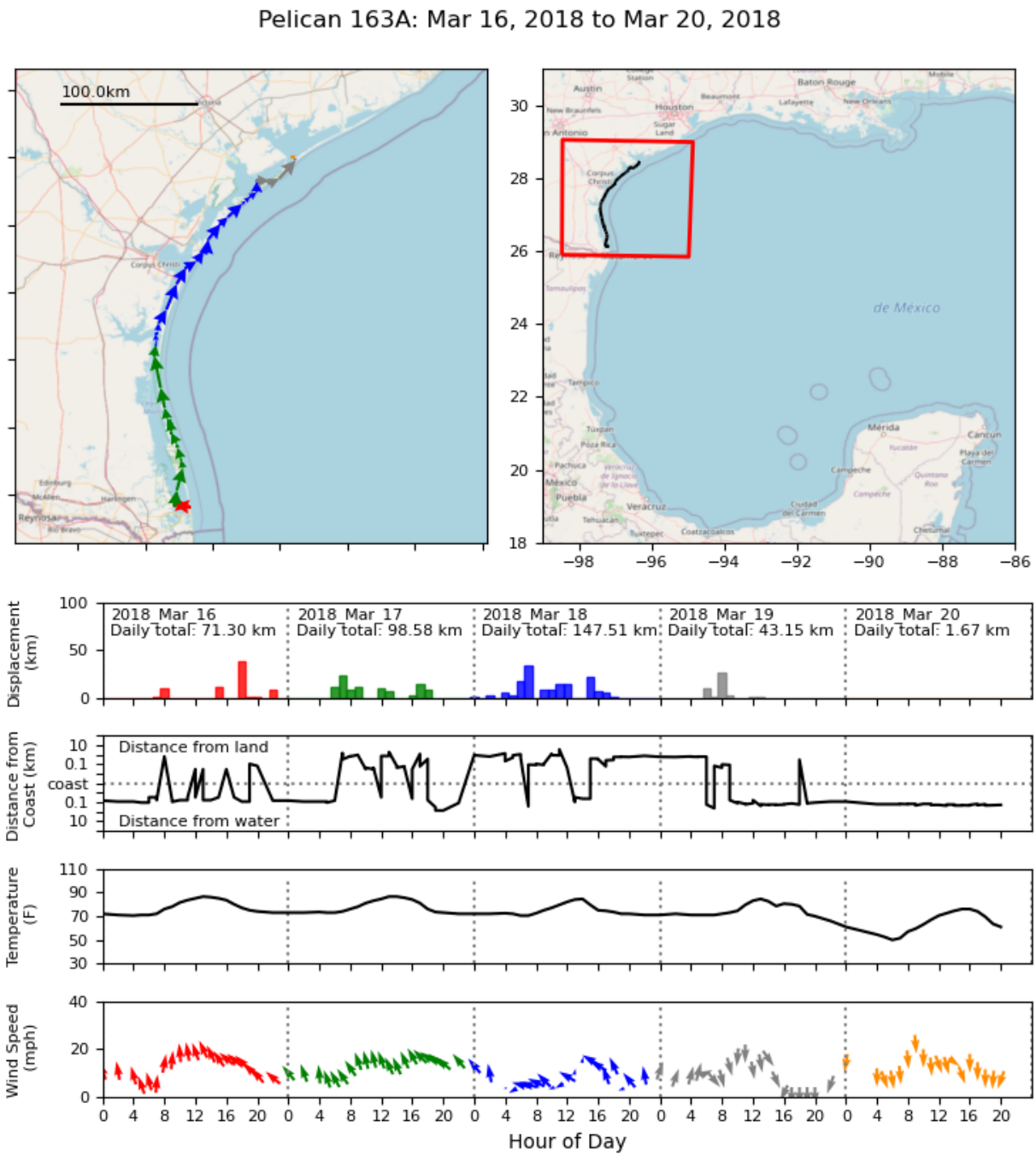

Figure 449 - Maps and graphs showing movements of 163A between 2018-03-16 and 2018-03-19 inclusive.

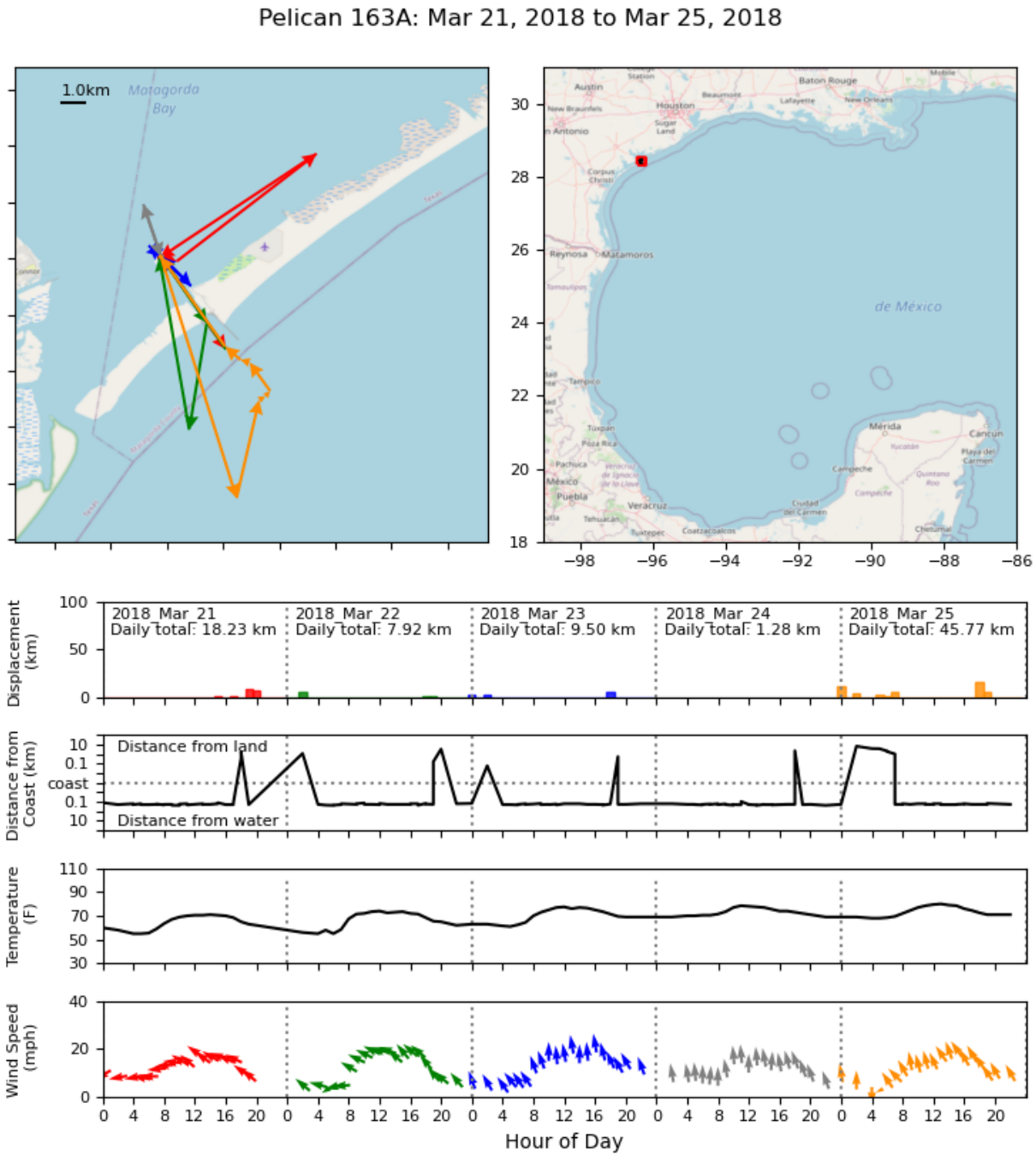

Figure 450 - Maps and graphs showing movements of 163A between 2018-03-21 and 2018-03-24 inclusive.

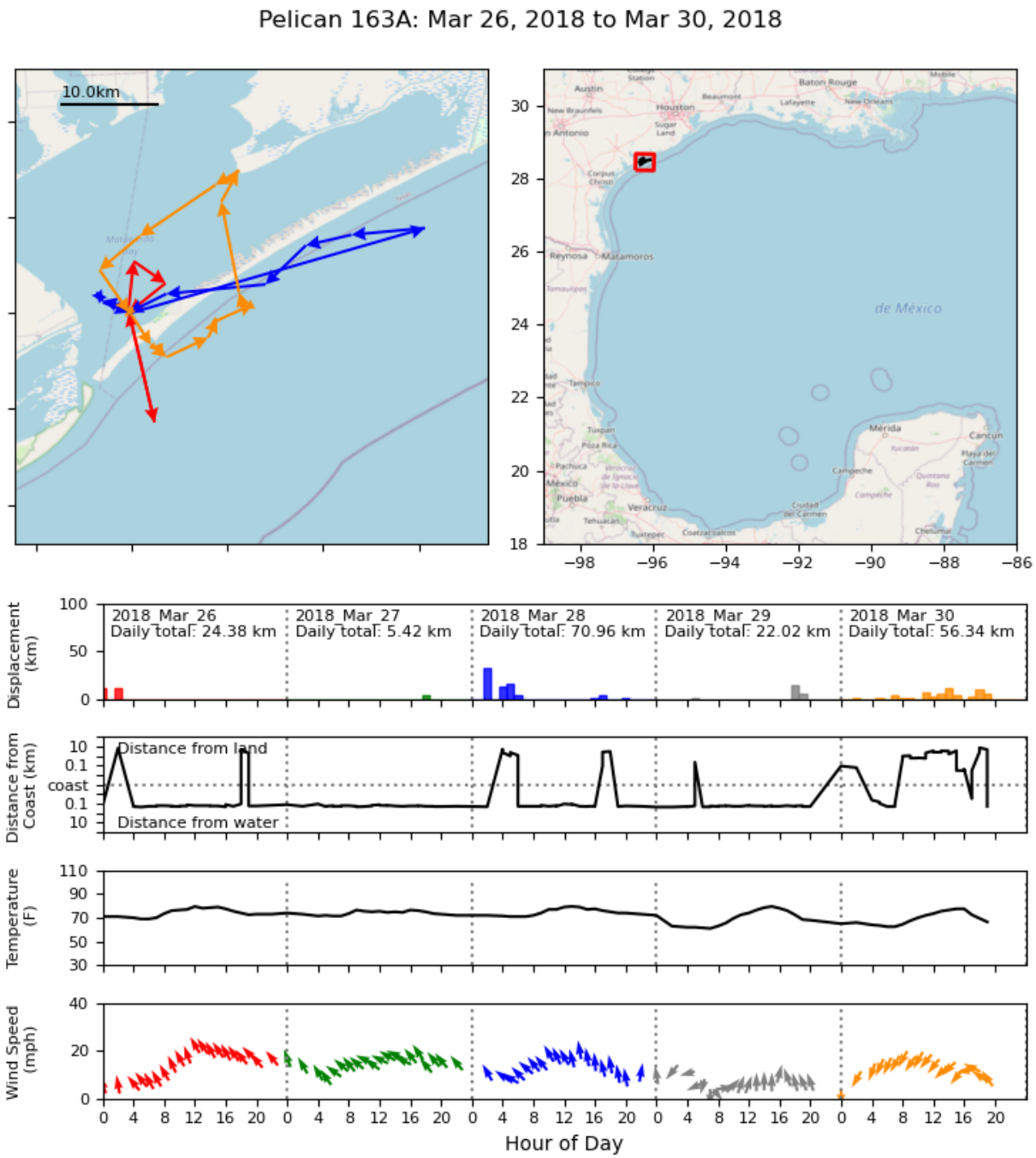

Figure 451 - Maps and graphs showing movements of 163A between 2018-03-26 and 2018-03-29 inclusive.

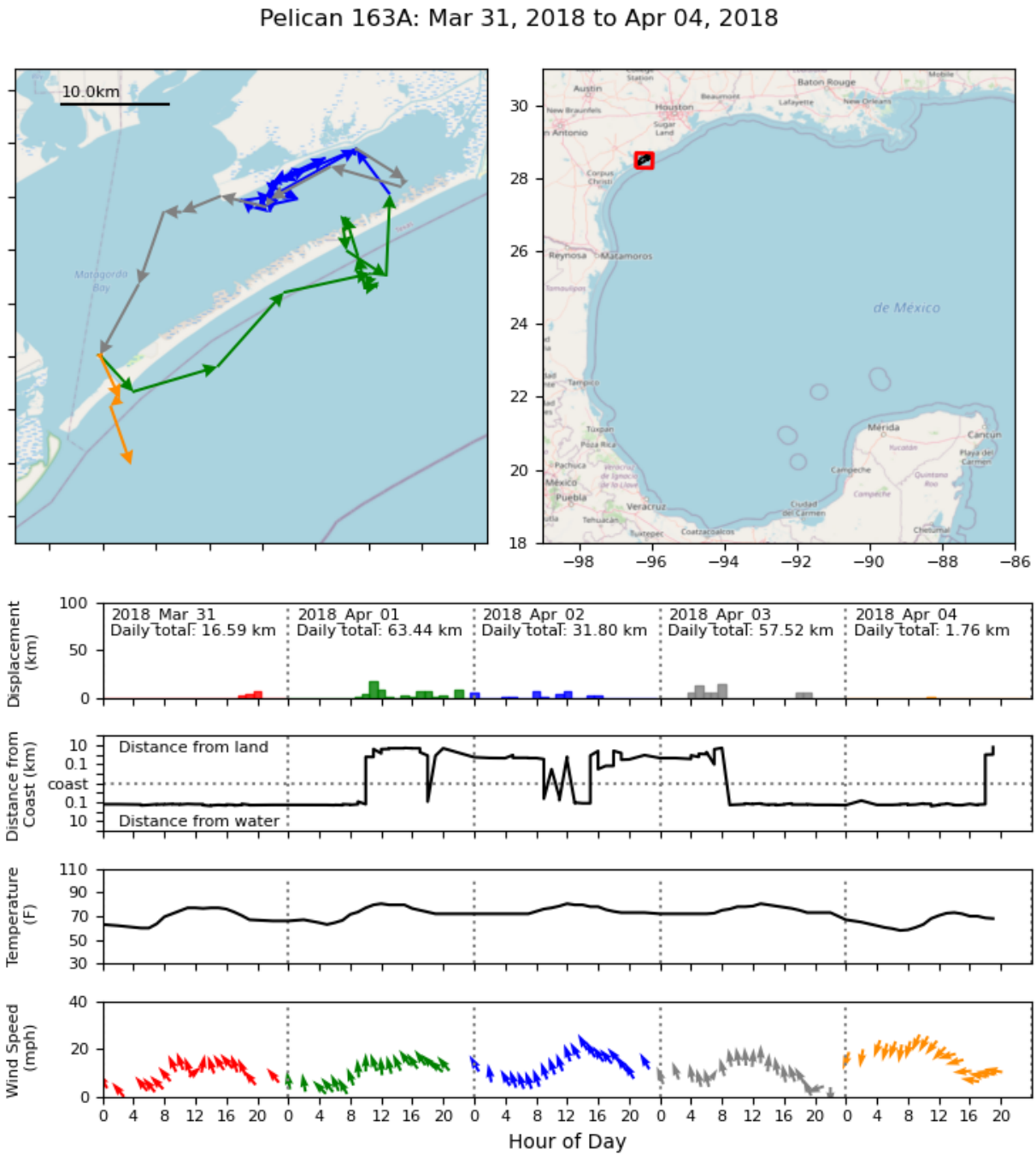

Figure 452 - Maps and graphs showing movements of 163A between 2018-03-31 and 2018-04-03 inclusive.

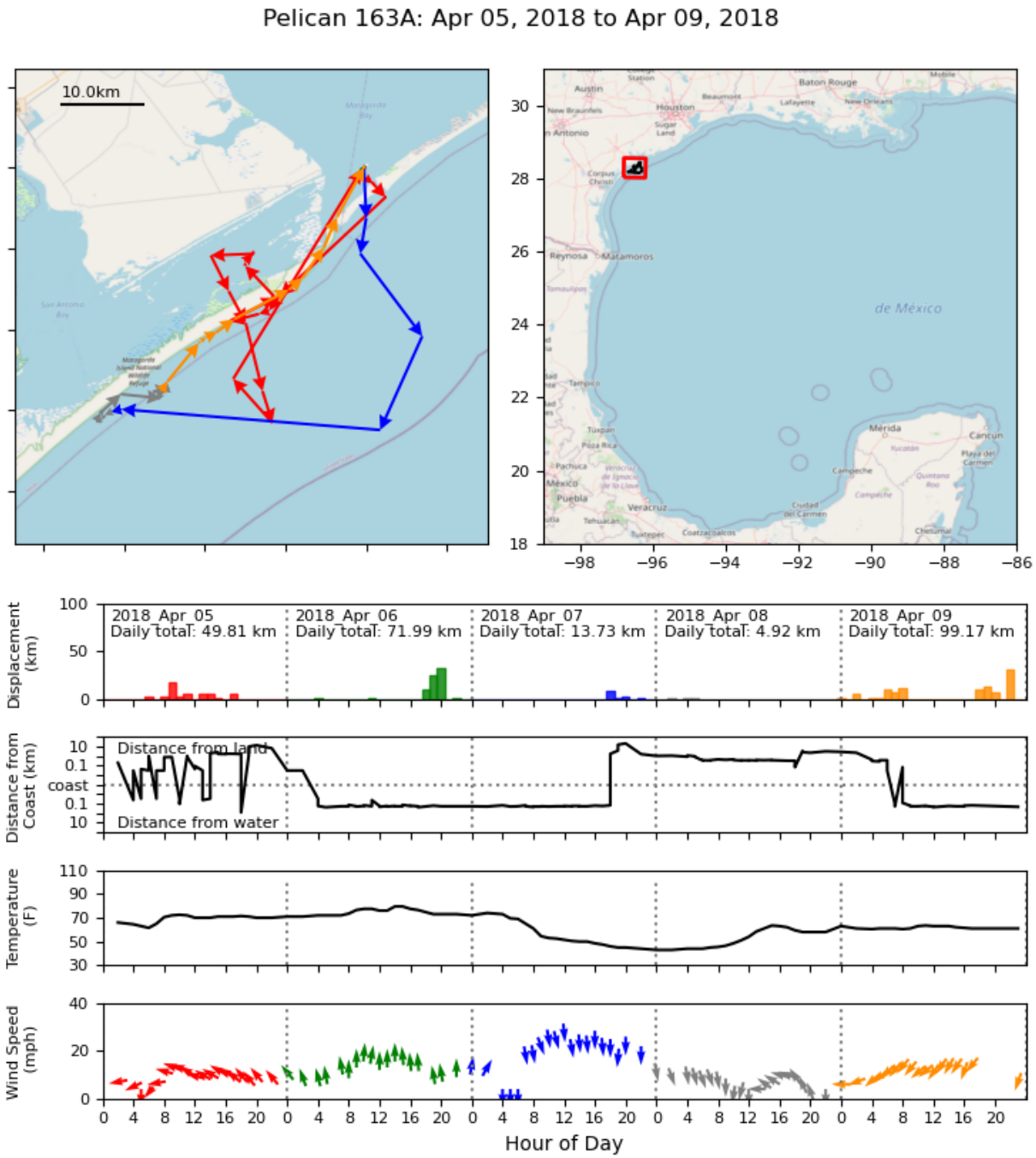

Figure 453 - Maps and graphs showing movements of 163A between 2018-04-05 and 2018-04-08 inclusive.

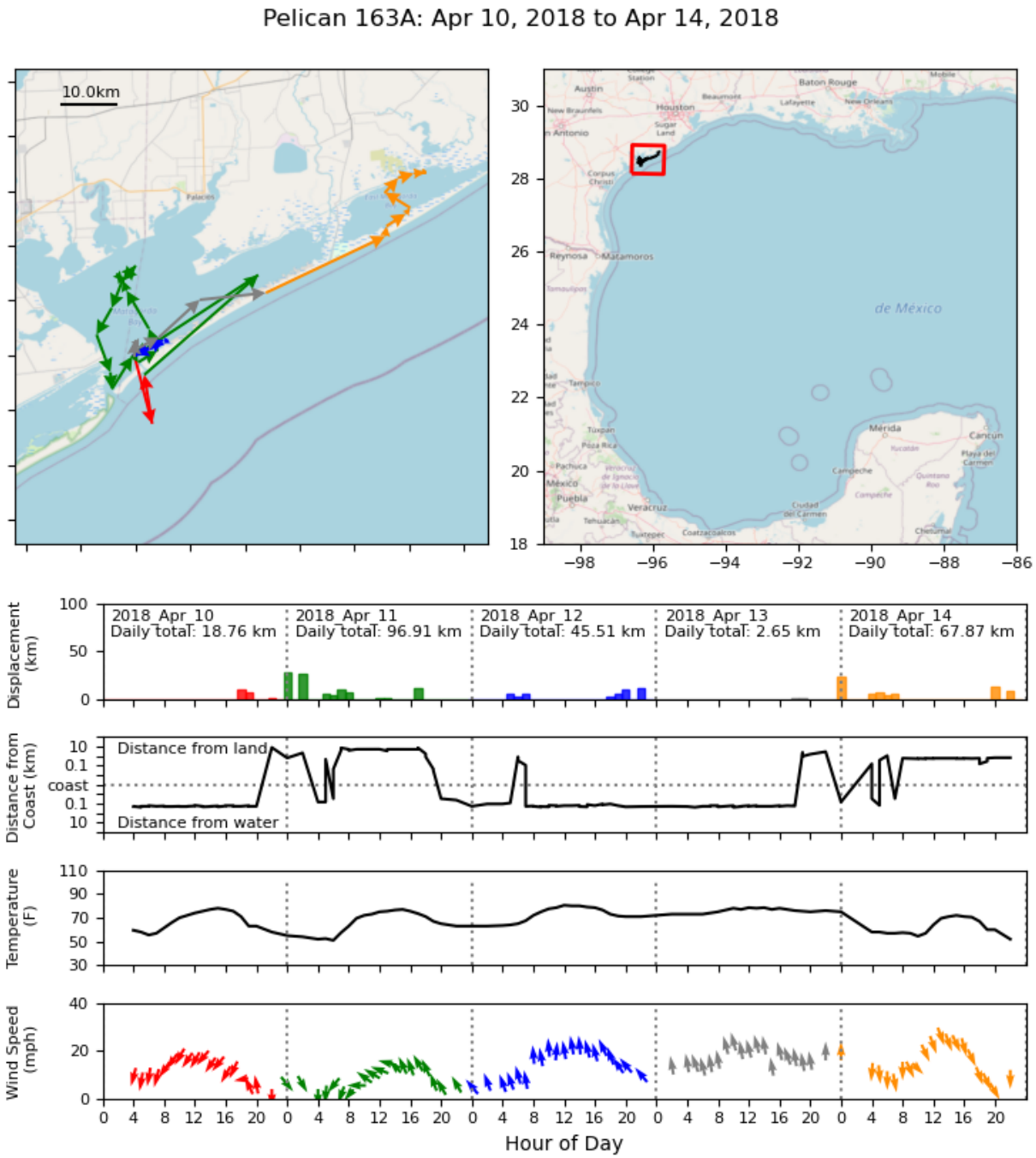

Figure 454 - Maps and graphs showing movements of 163A between 2018-04-10 and 2018-04-13 inclusive.

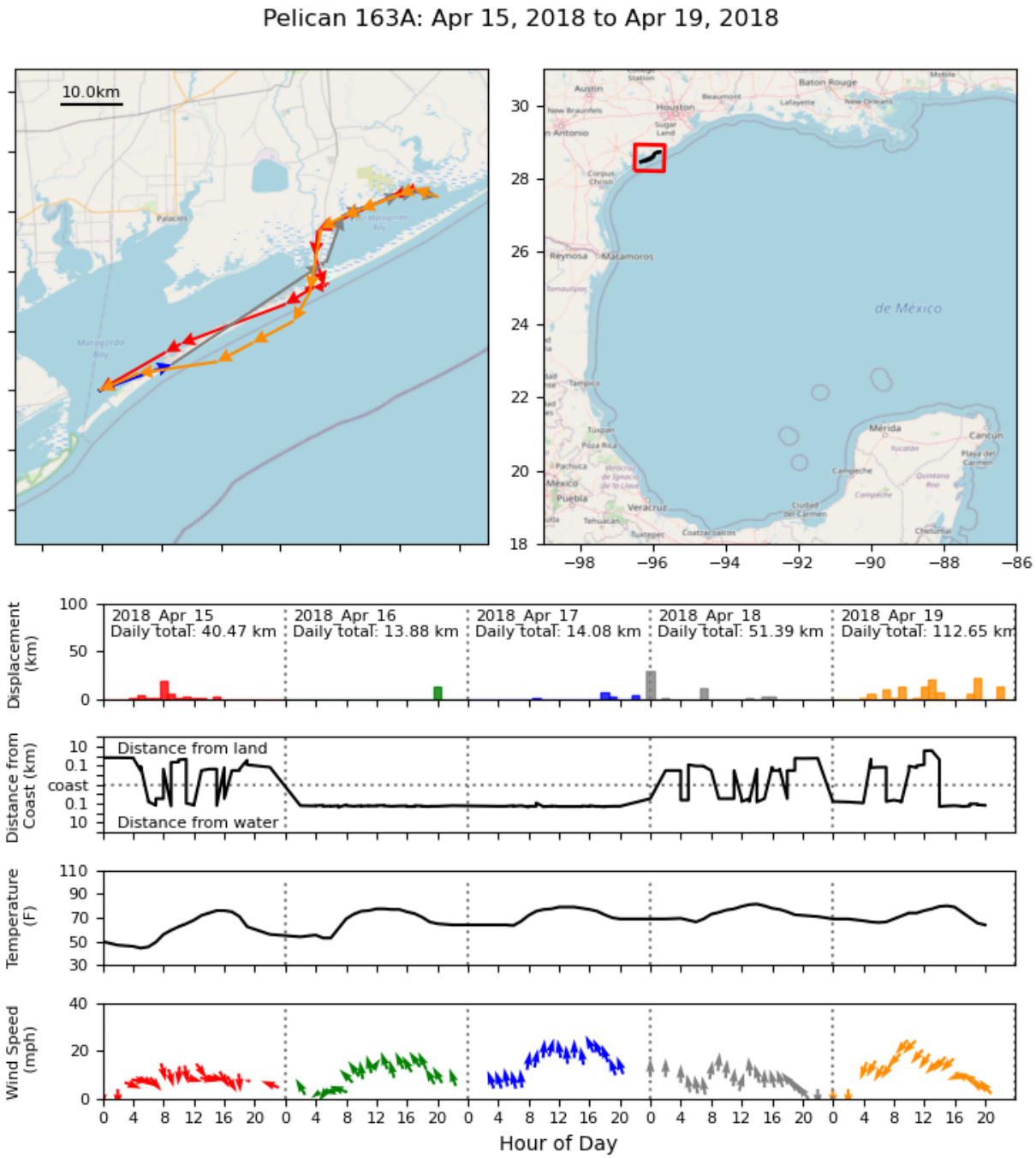

Figure 455 - Maps and graphs showing movements of 163A between 2018-04-15 and 2018-04-18 inclusive.

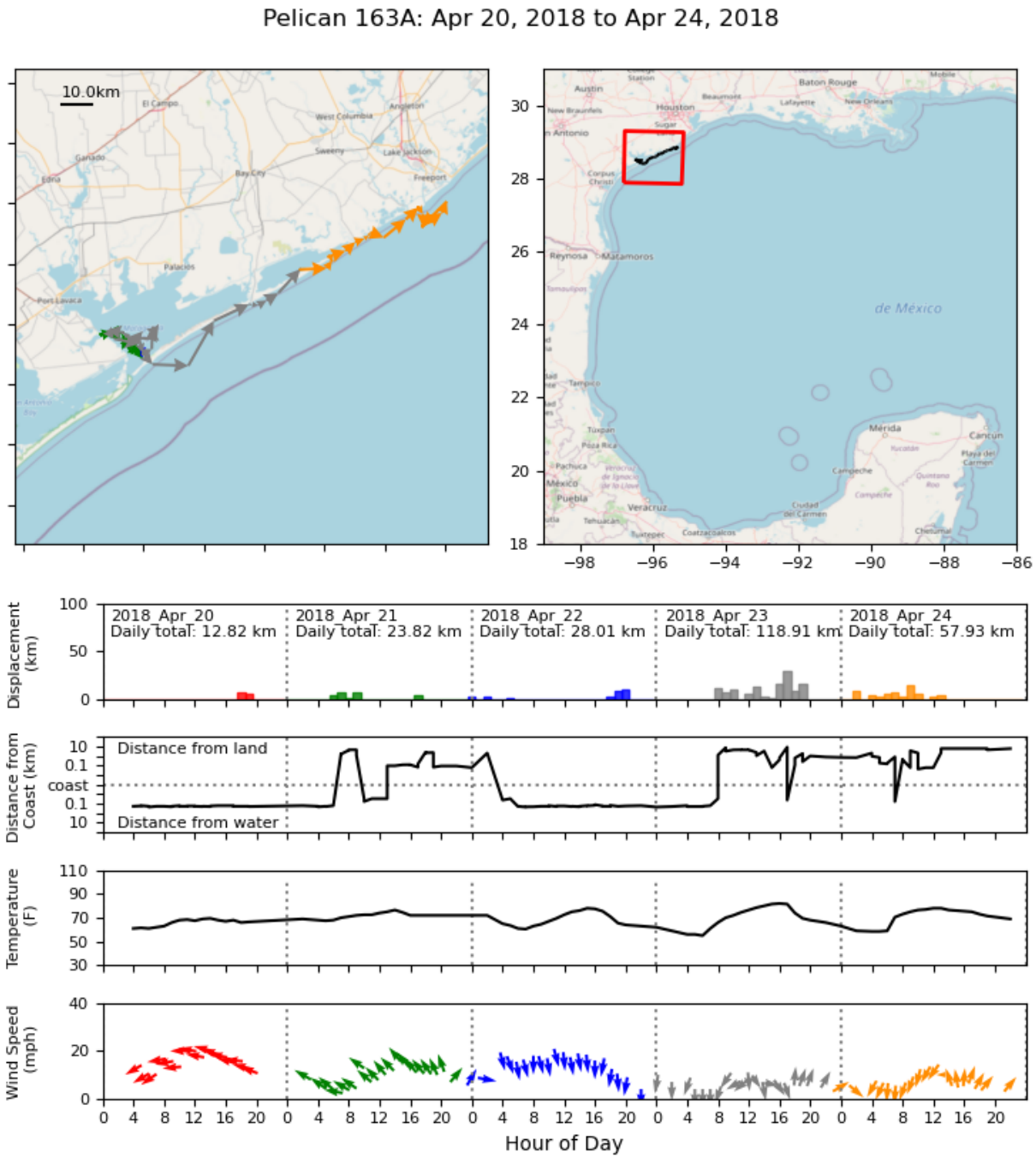

Figure 456 - Maps and graphs showing movements of 163A between 2018-04-20 and 2018-04-23 inclusive.

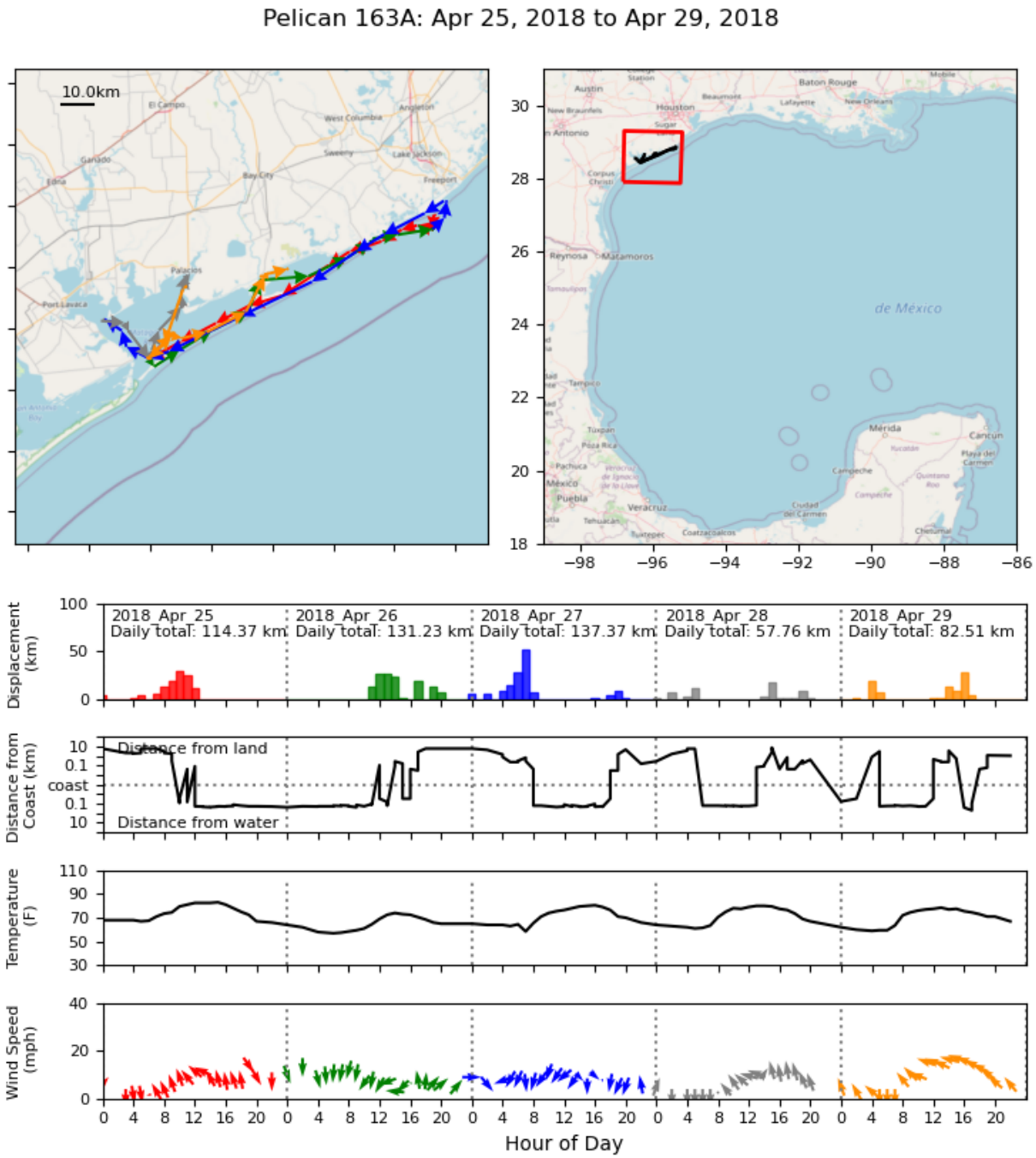

Figure 457 - Maps and graphs showing movements of 163A between 2018-04-25 and 2018-04-28 inclusive.

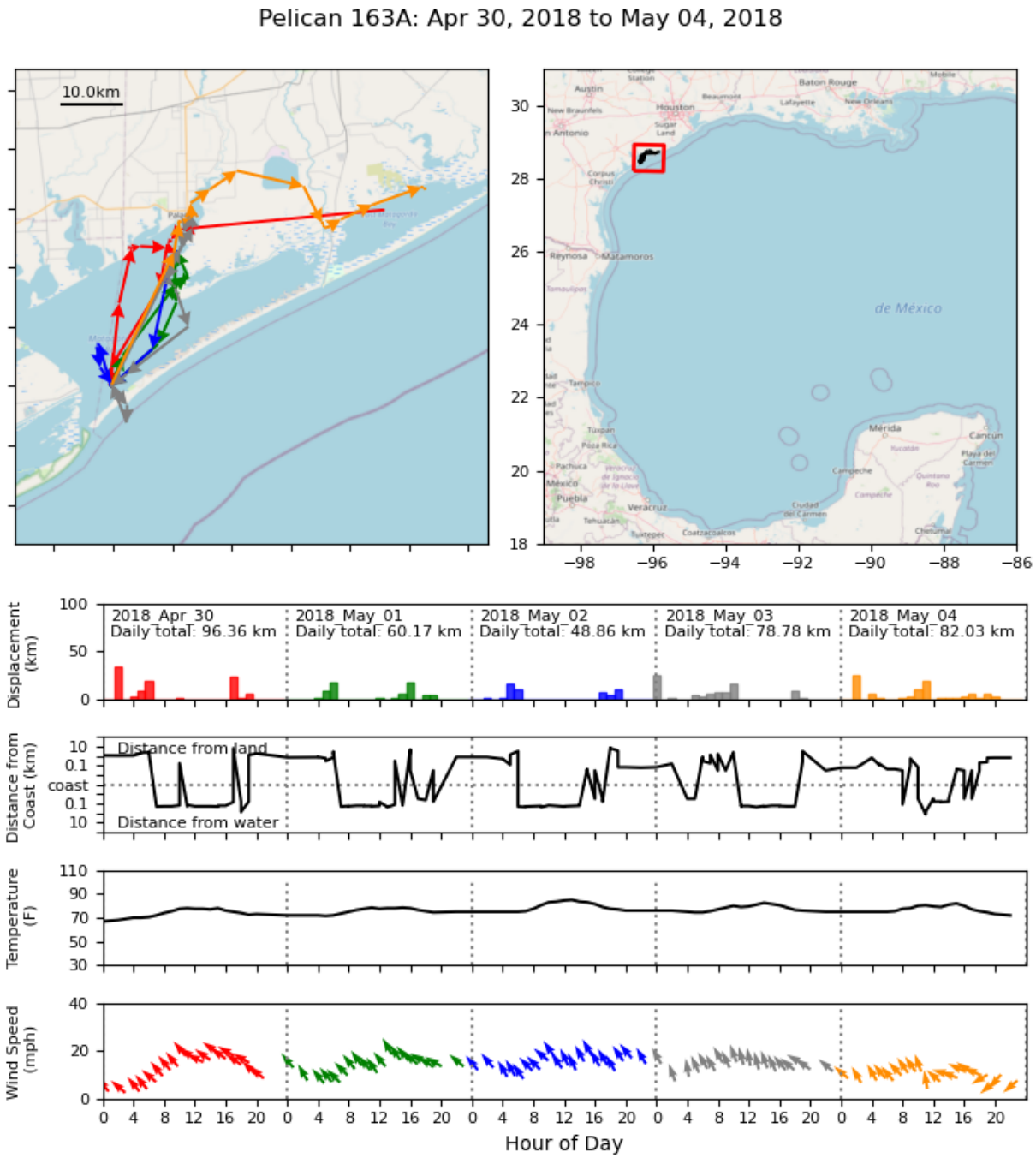

Figure 458 - Maps and graphs showing movements of 163A between 2018-04-30 and 2018-05-03 inclusive.

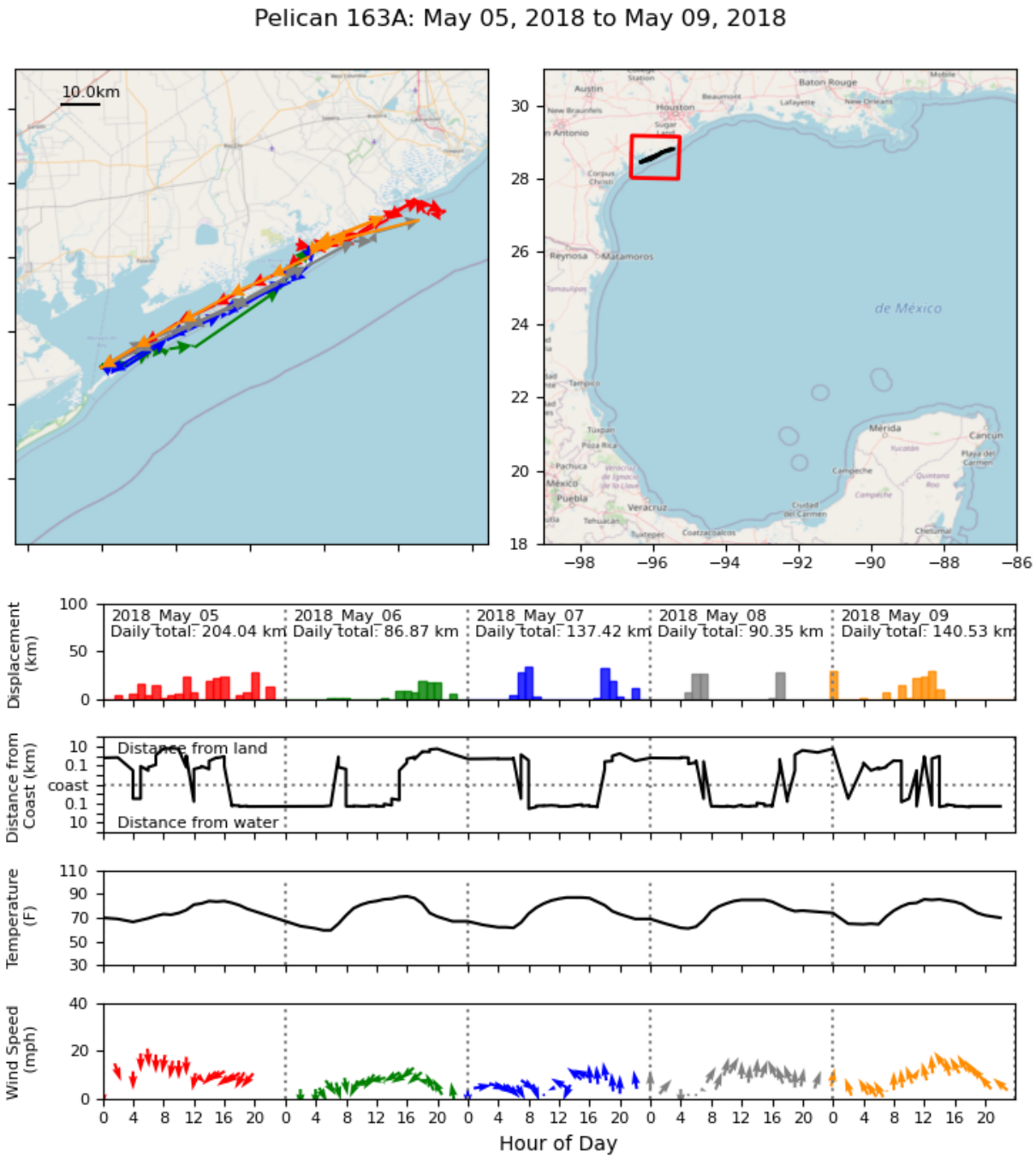

Figure 459 - Maps and graphs showing movements of 163A between 2018-05-05 and 2018-05-08 inclusive.

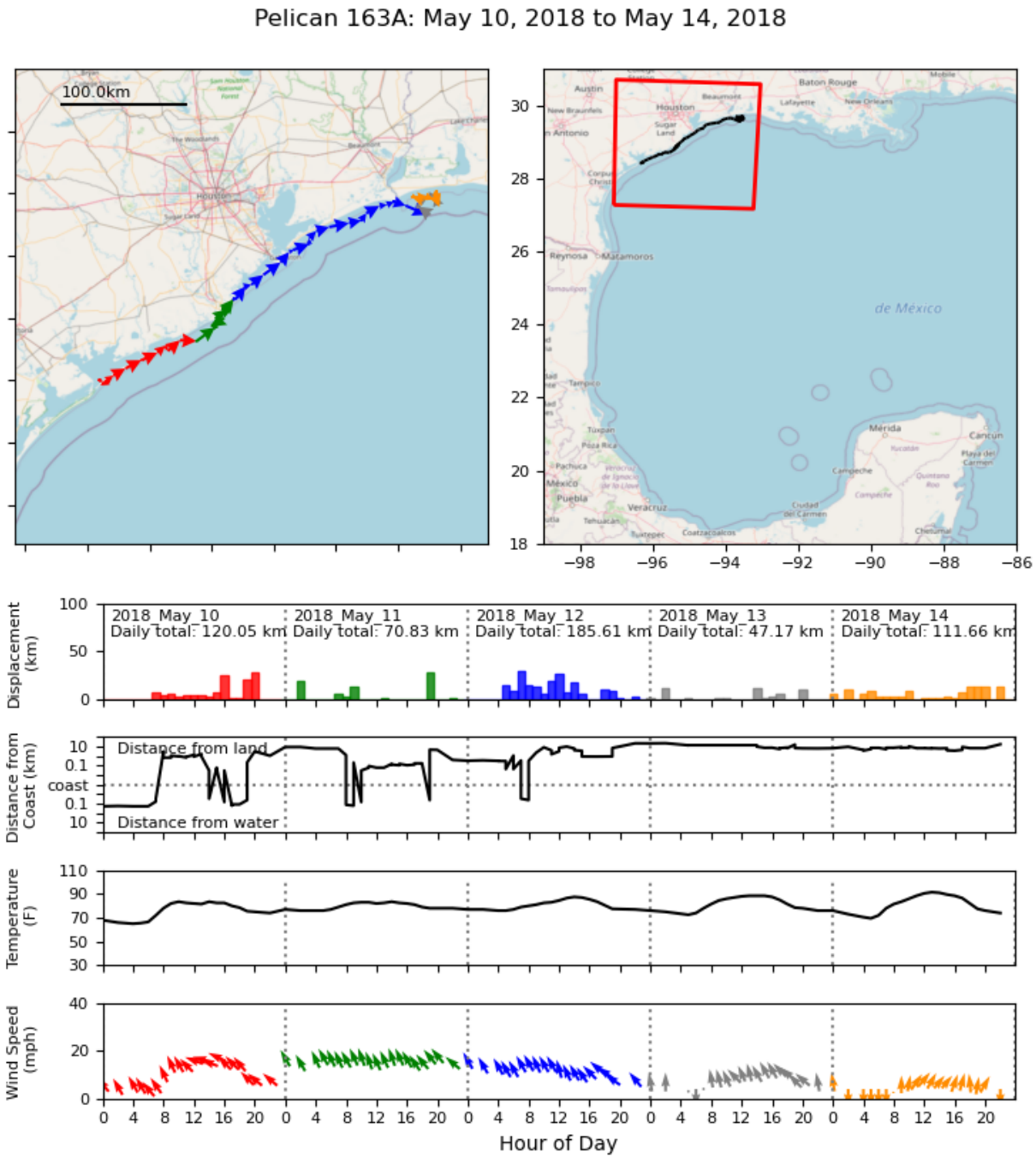

Figure 460 - Maps and graphs showing movements of 163A between 2018-05-10 and 2018-05-13 inclusive.

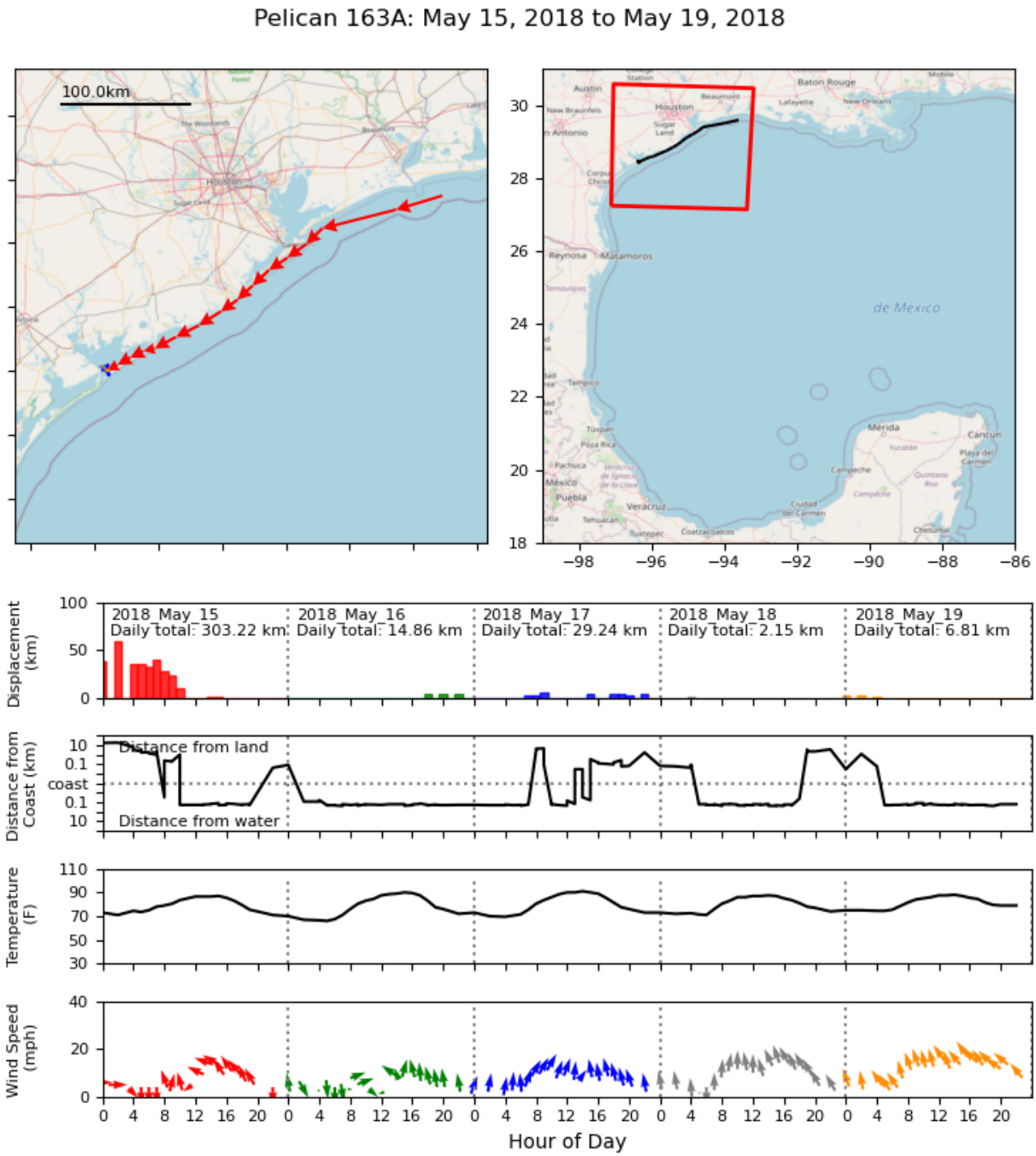

Figure 461 - Maps and graphs showing movements of 163A between 2018-05-15 and 2018-05-18 inclusive.

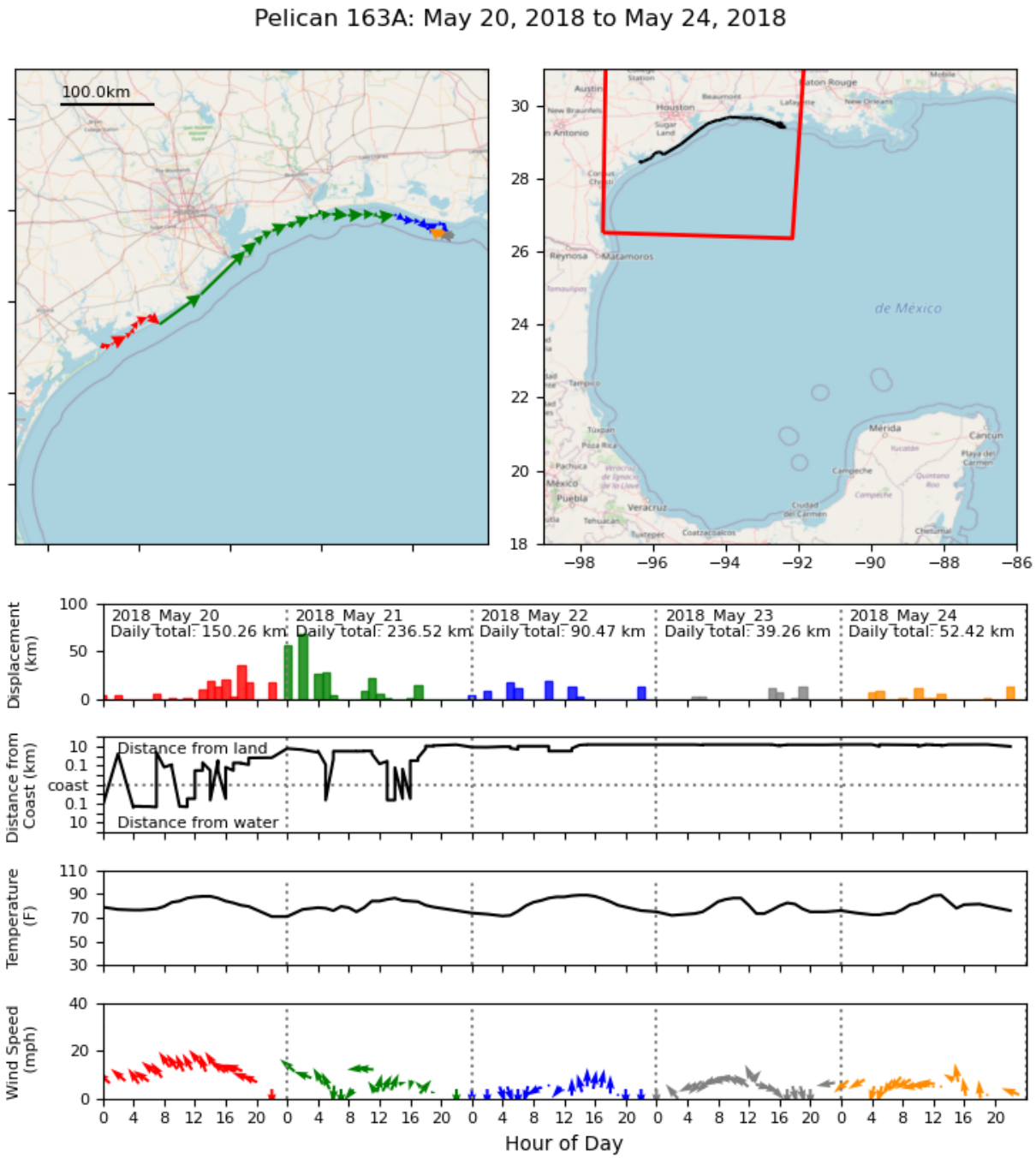

Figure 462 - Maps and graphs showing movements of 163A between 2018-05-20 and 2018-05-23 inclusive.

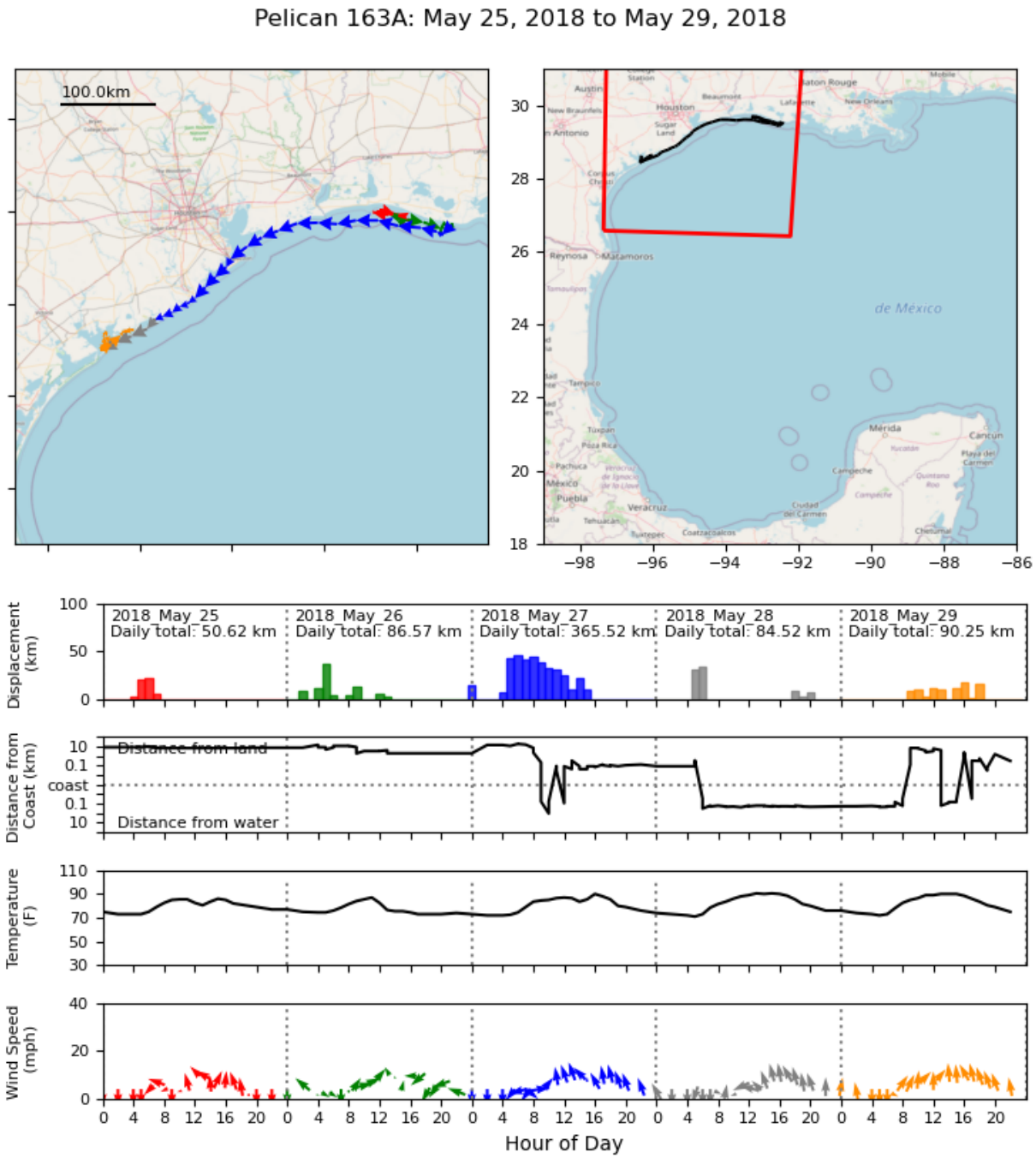

Figure 463 - Maps and graphs showing movements of 163A between 2018-05-25 and 2018-05-28 inclusive.

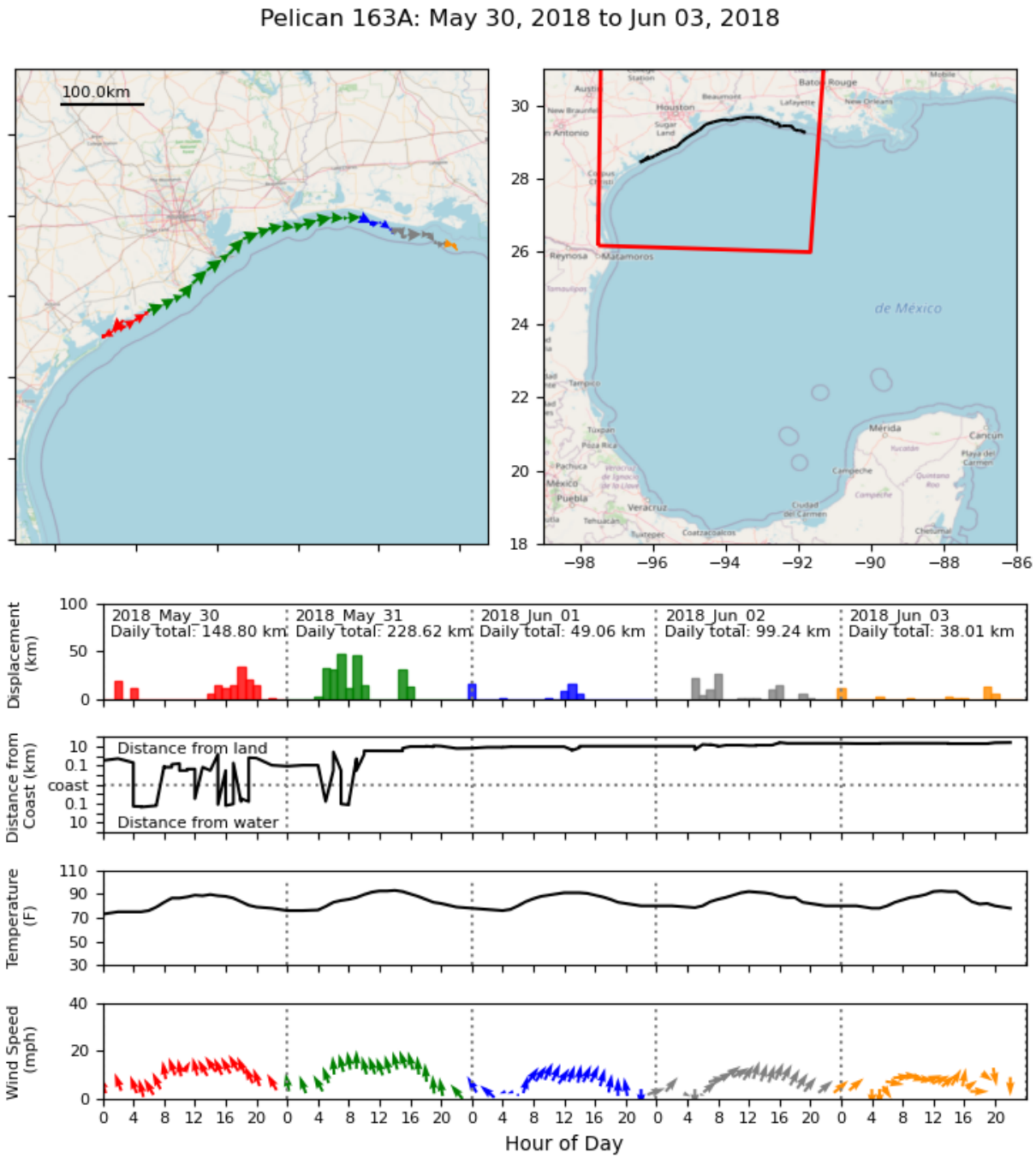

Figure 464 - Maps and graphs showing movements of 163A between 2018-05-30 and 2018-06-02 inclusive.

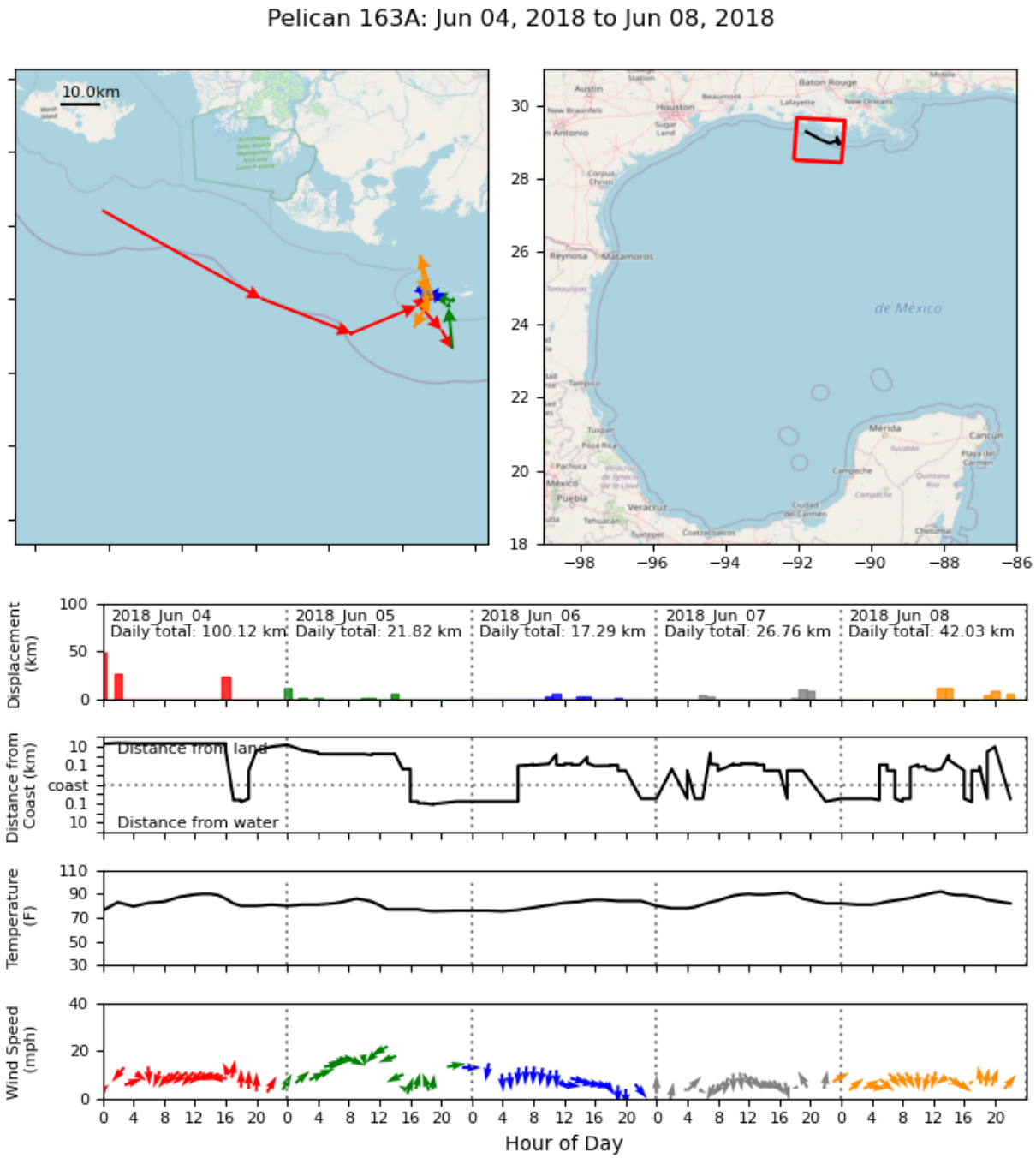

Figure 465 - Maps and graphs showing movements of 163A between 2018-06-04 and 2018-06-07 inclusive.

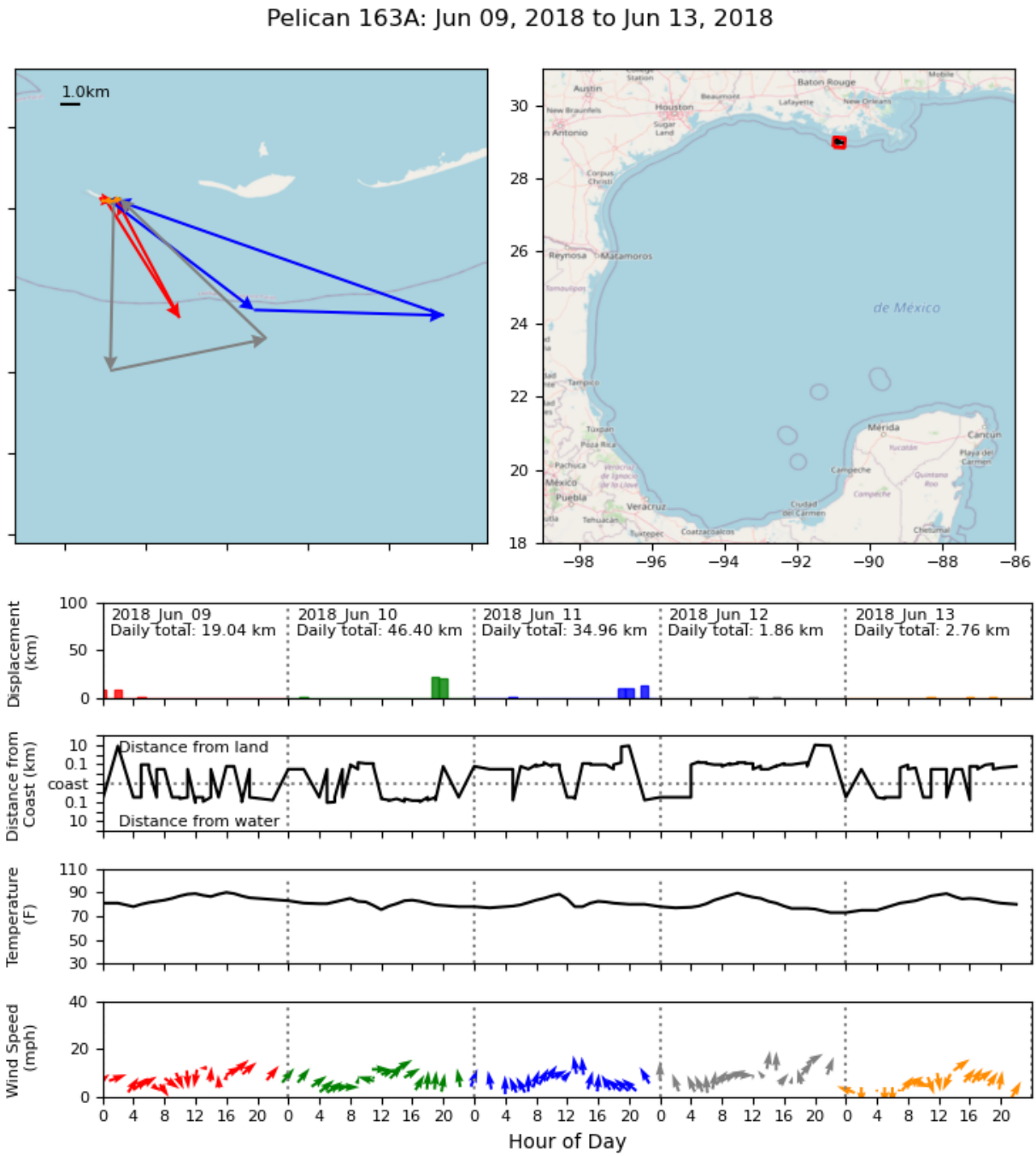

Figure 466 - Maps and graphs showing movements of 163A between 2018-06-09 and 2018-06-12 inclusive.

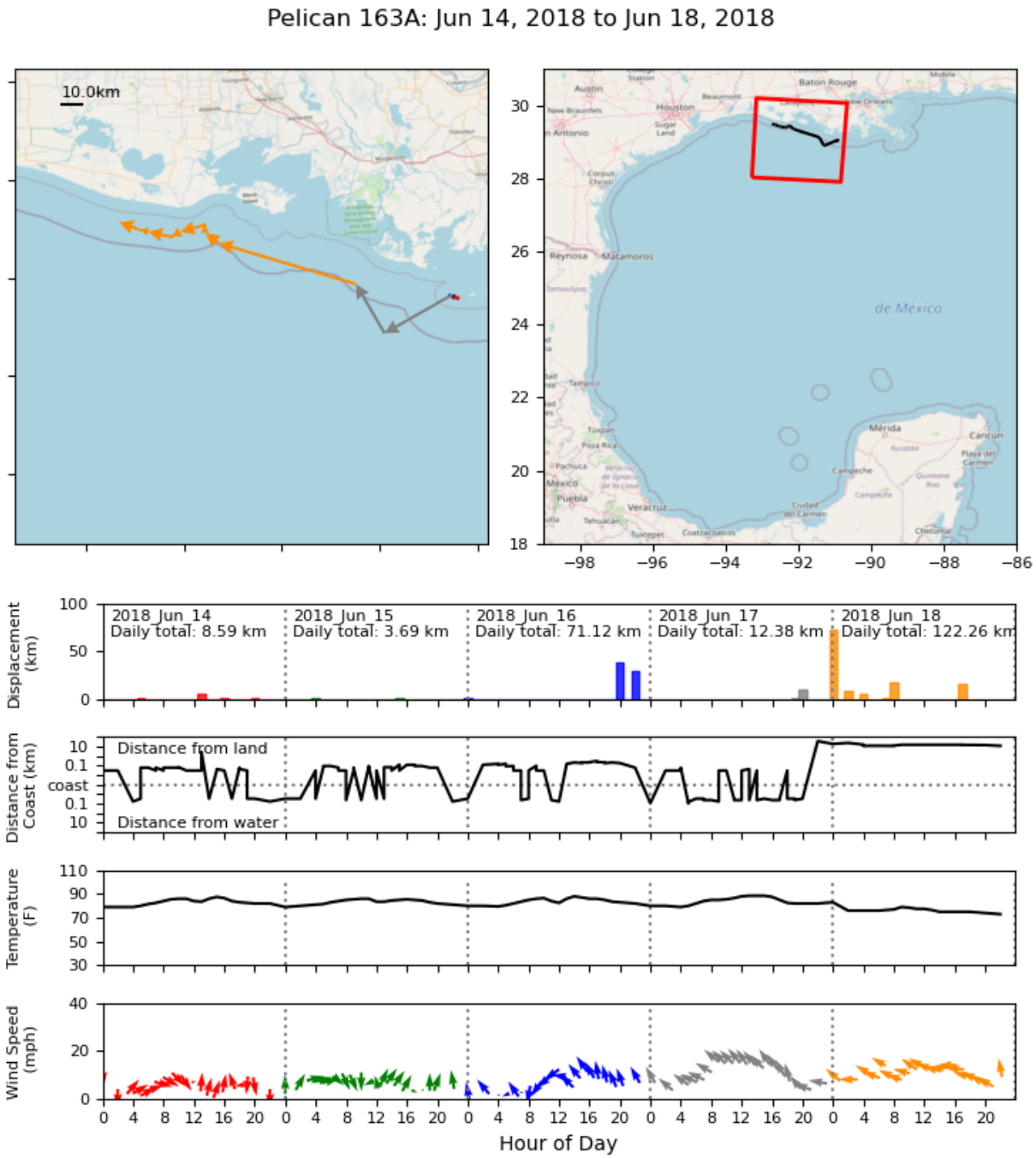

Figure 467 - Maps and graphs showing movements of 163A between 2018-06-14 and 2018-06-17 inclusive.

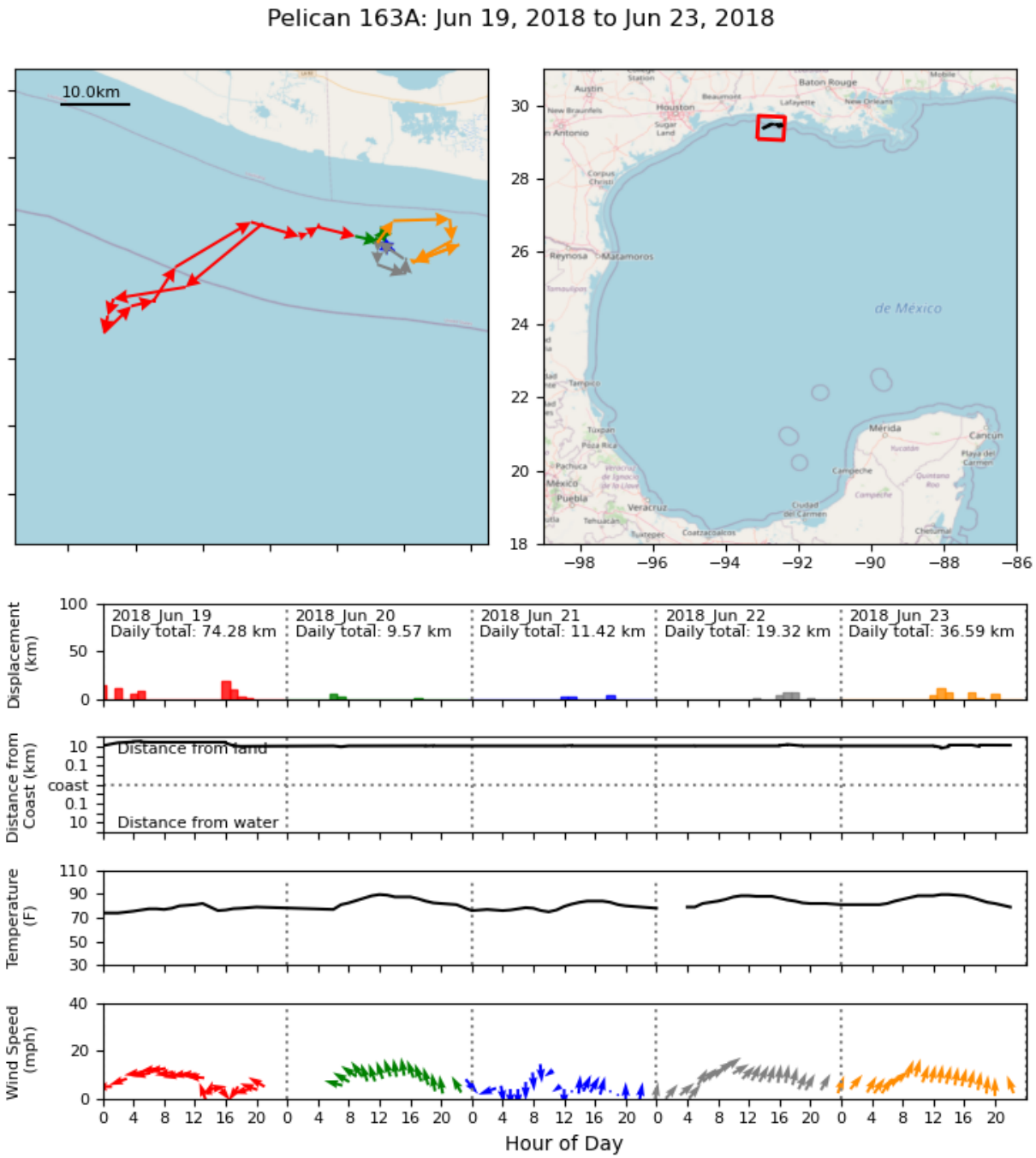

Figure 468 - Maps and graphs showing movements of 163A between 2018-06-19 and 2018-06-22 inclusive.

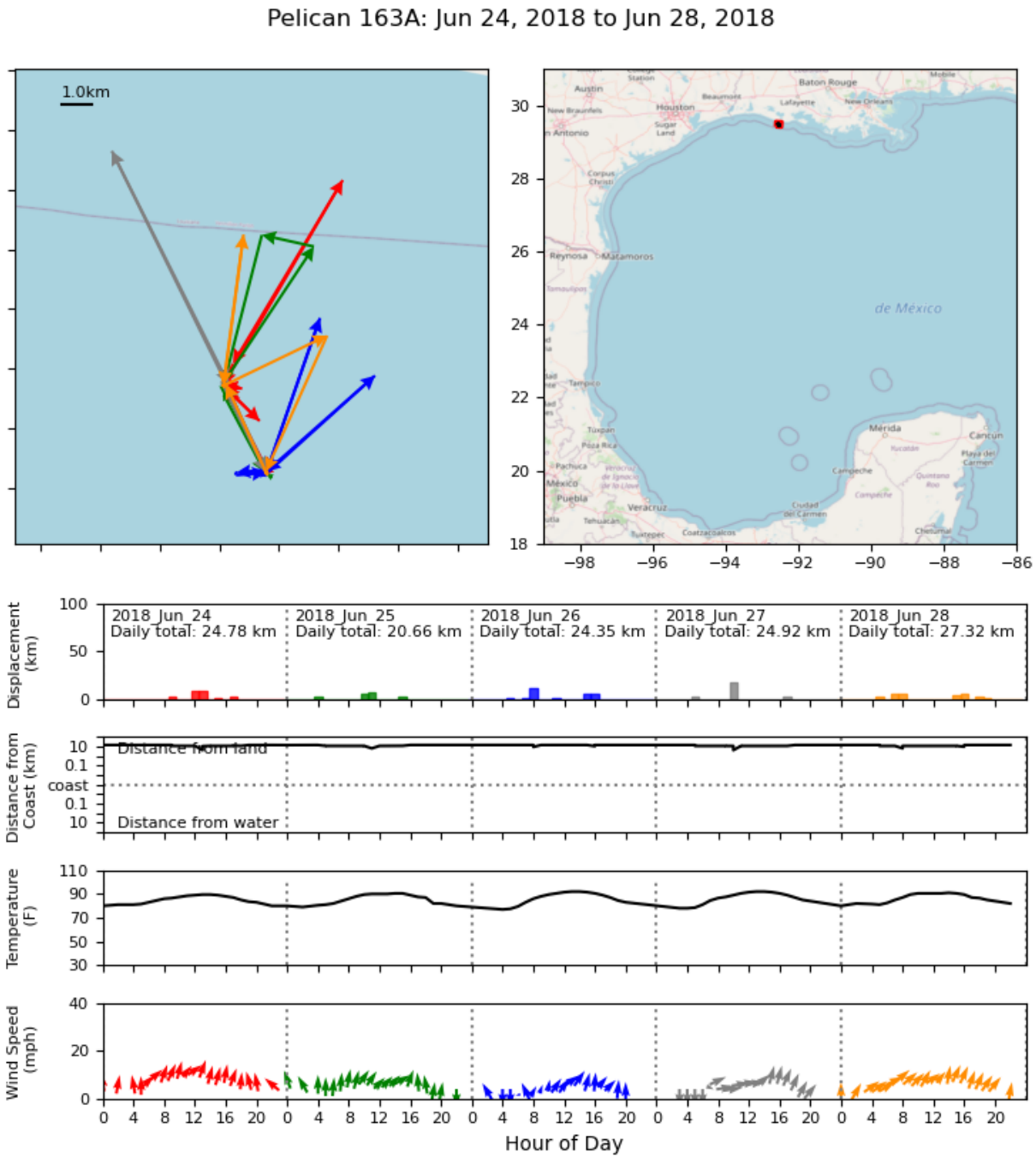

Figure 469 - Maps and graphs showing movements of 163A between 2018-06-24 and 2018-06-27 inclusive.

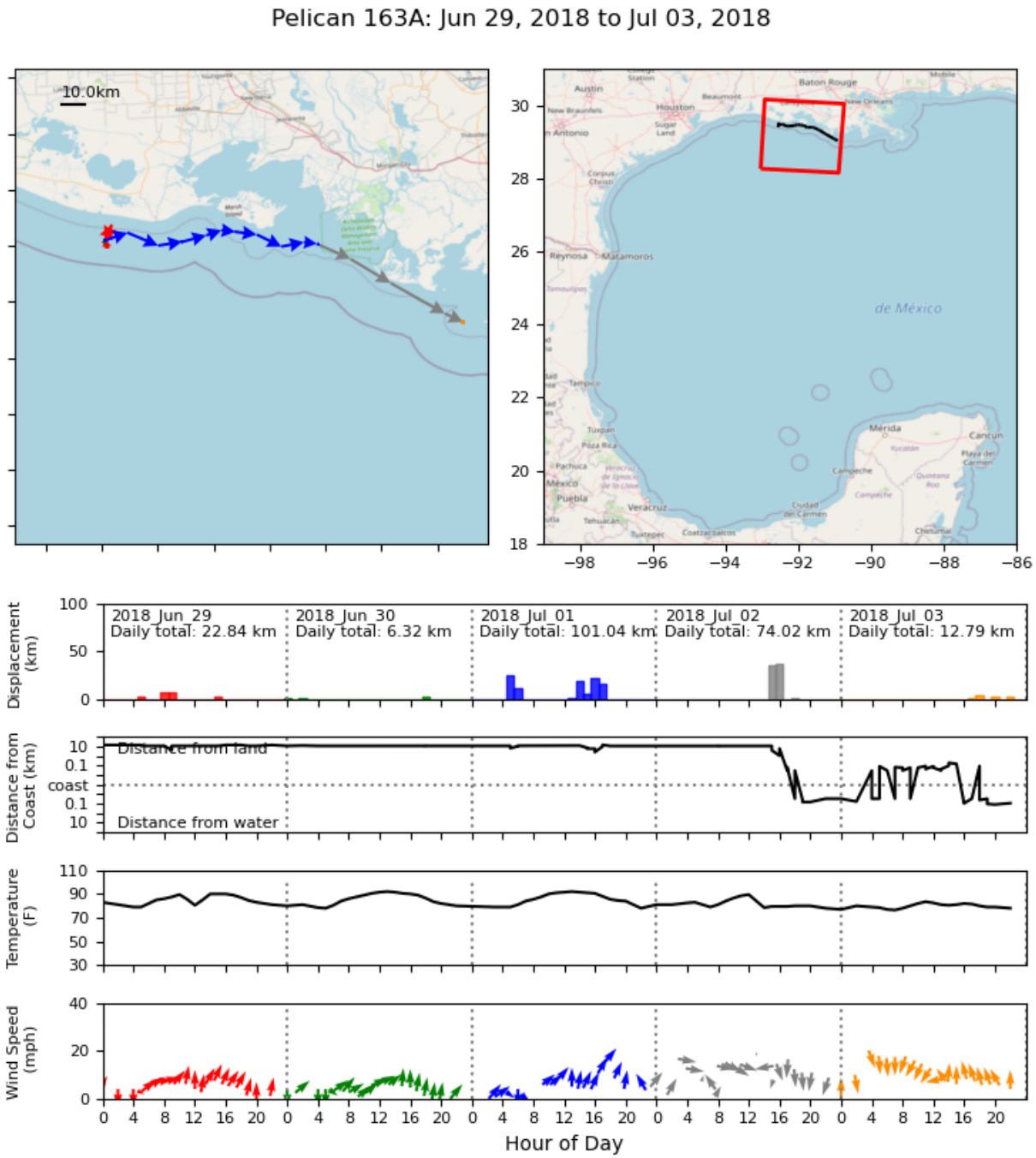

Figure 470 - Maps and graphs showing movements of 163A between 2018-06-29 and 2018-07-02 inclusive.

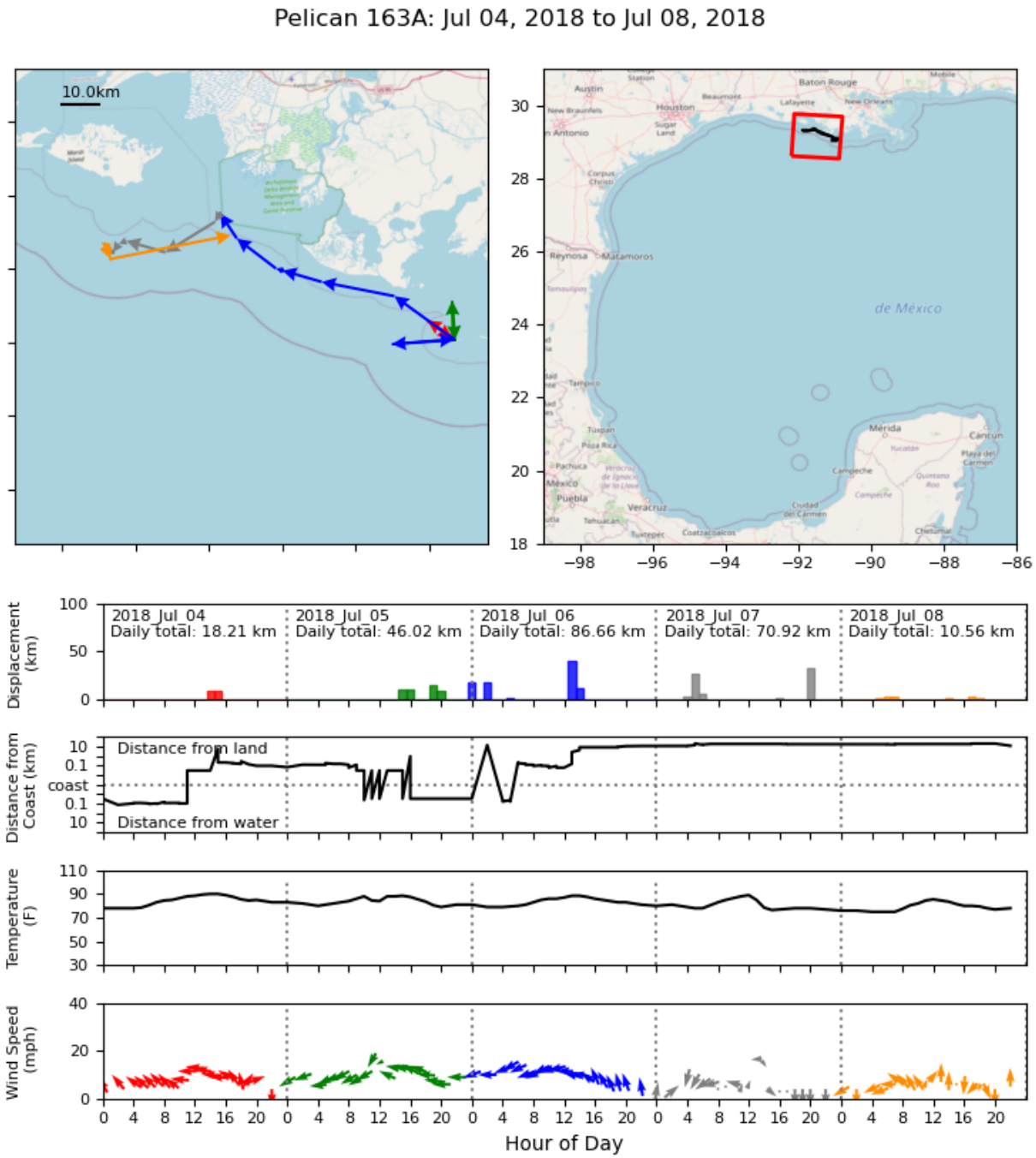

Figure 471 - Maps and graphs showing movements of 163A between 2018-07-04 and 2018-07-07 inclusive.

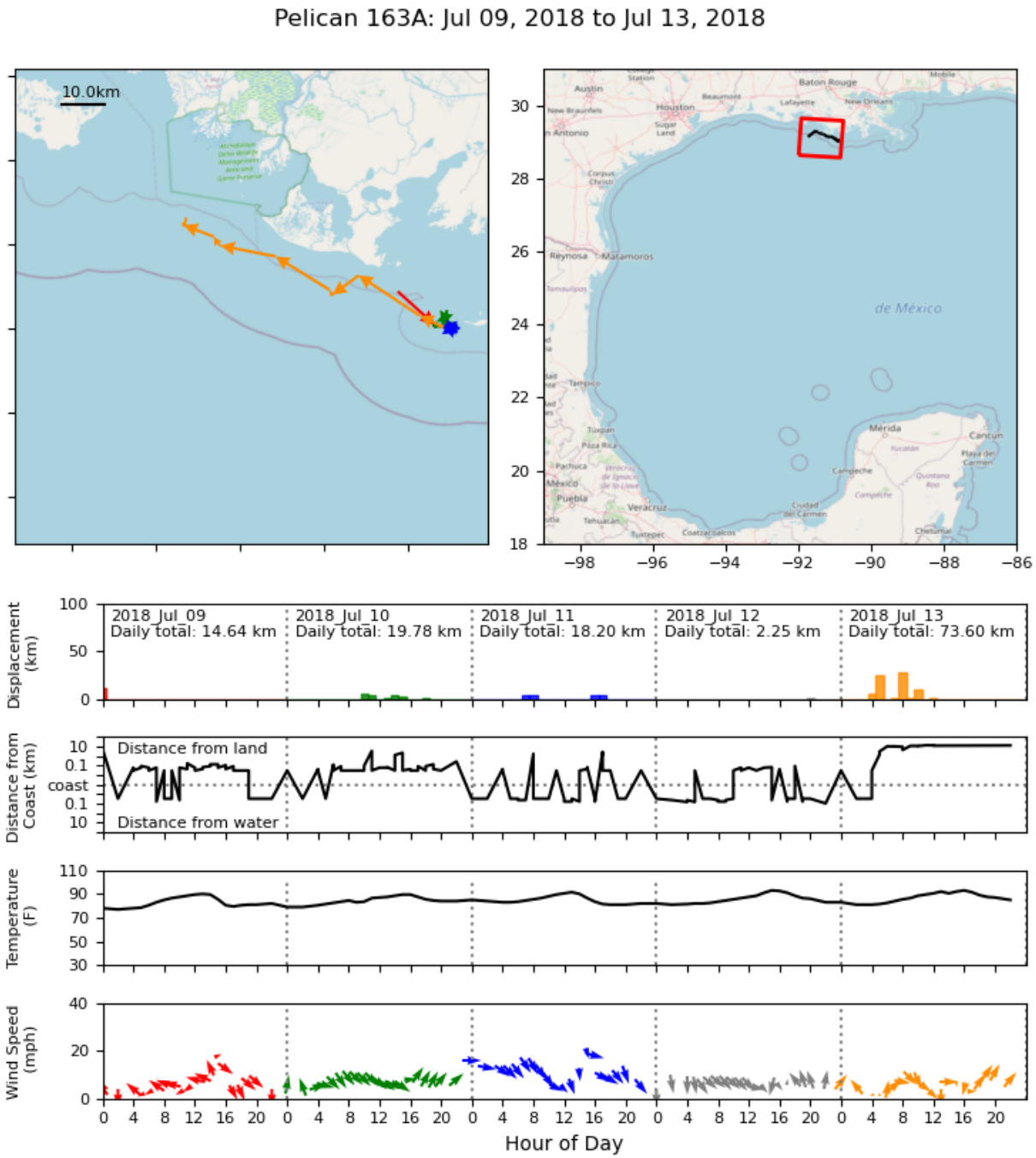

Figure 472 - Maps and graphs showing movements of 163A between 2018-07-09 and 2018-07-12 inclusive.

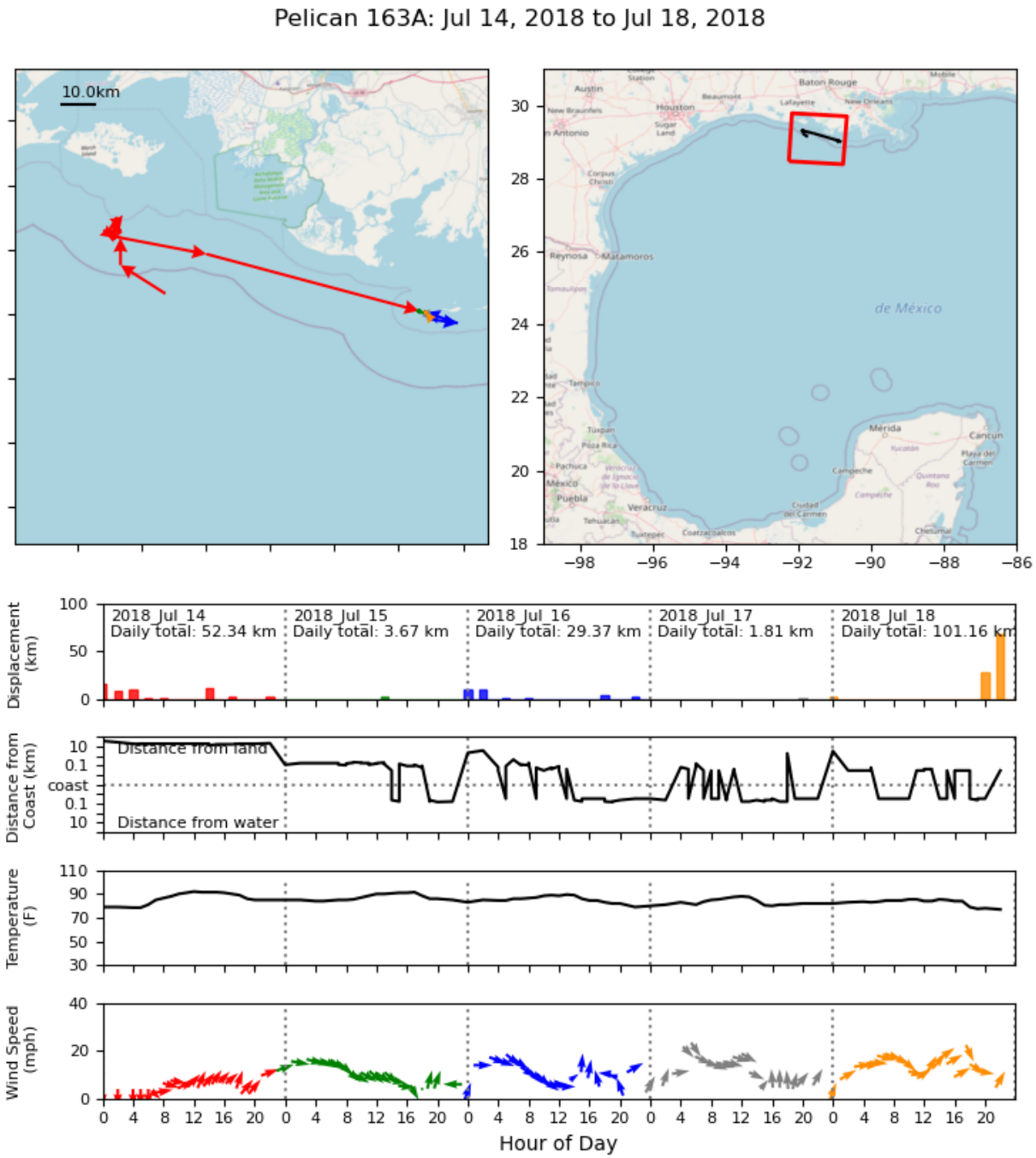

Figure 473 - Maps and graphs showing movements of 163A between 2018-07-14 and 2018-07-17 inclusive.

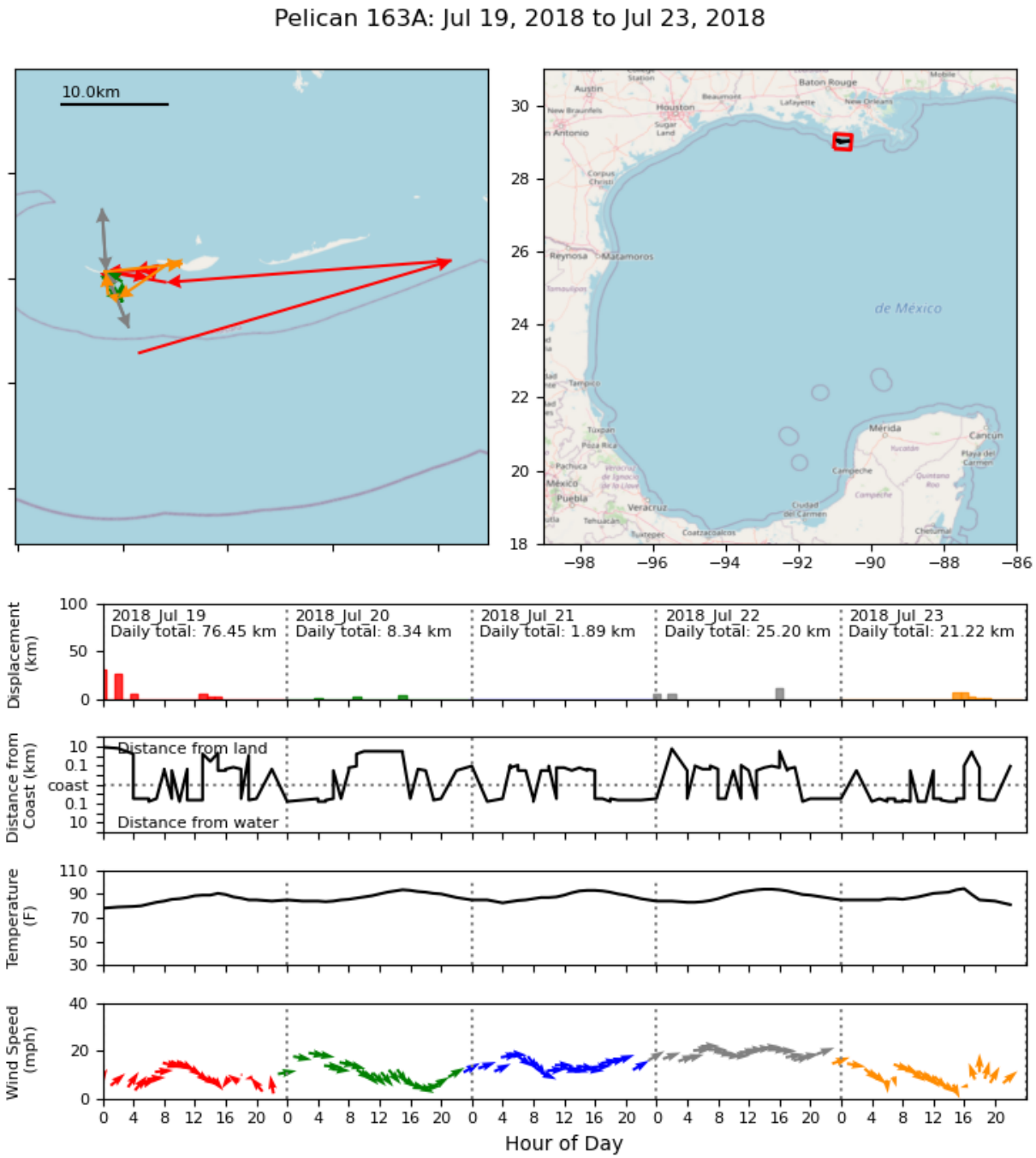

Figure 474 - Maps and graphs showing movements of 163A between 2018-07-19 and 2018-07-22 inclusive.

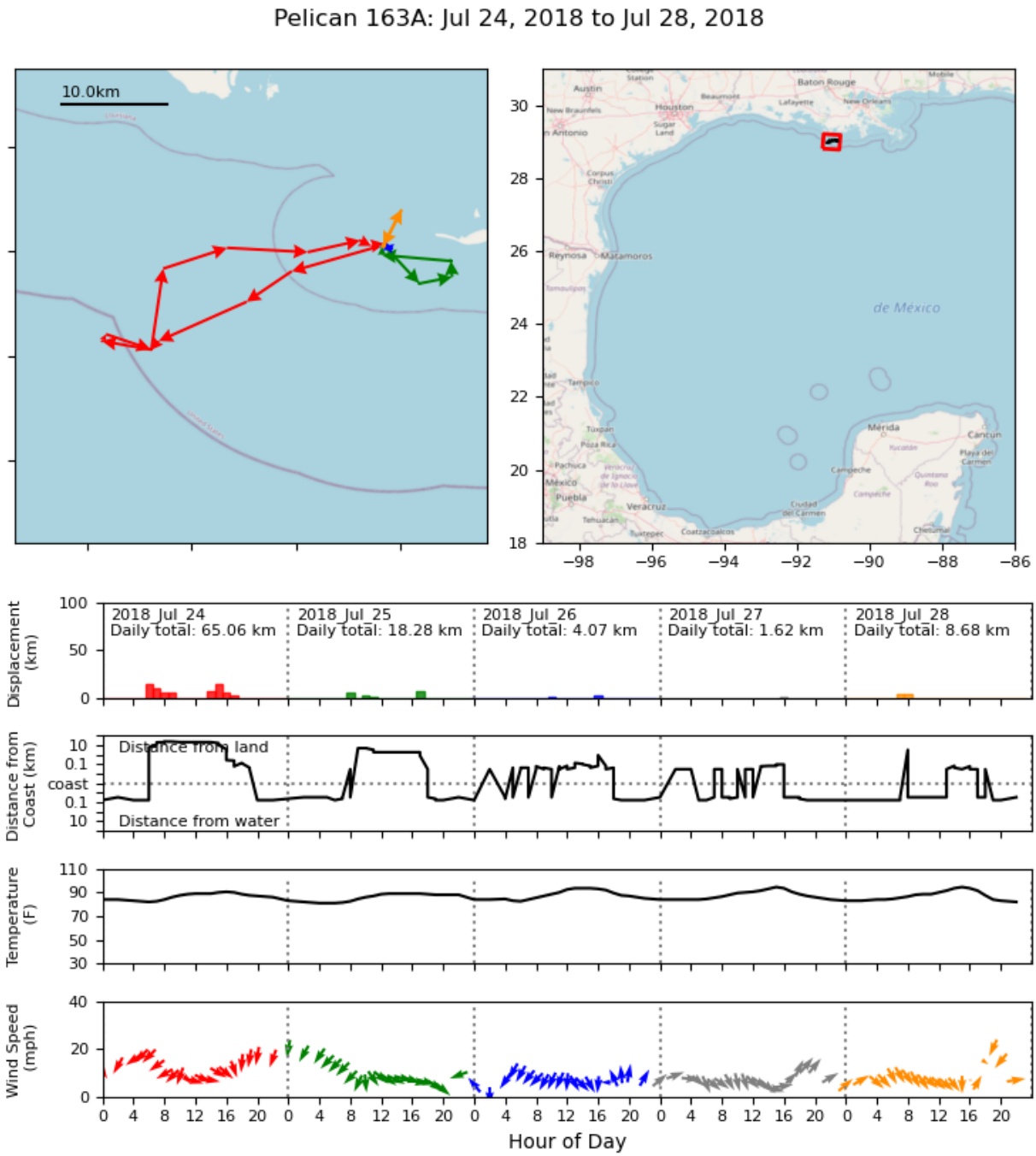

Figure 475 - Maps and graphs showing movements of 163A between 2018-07-24 and 2018-07-27 inclusive.

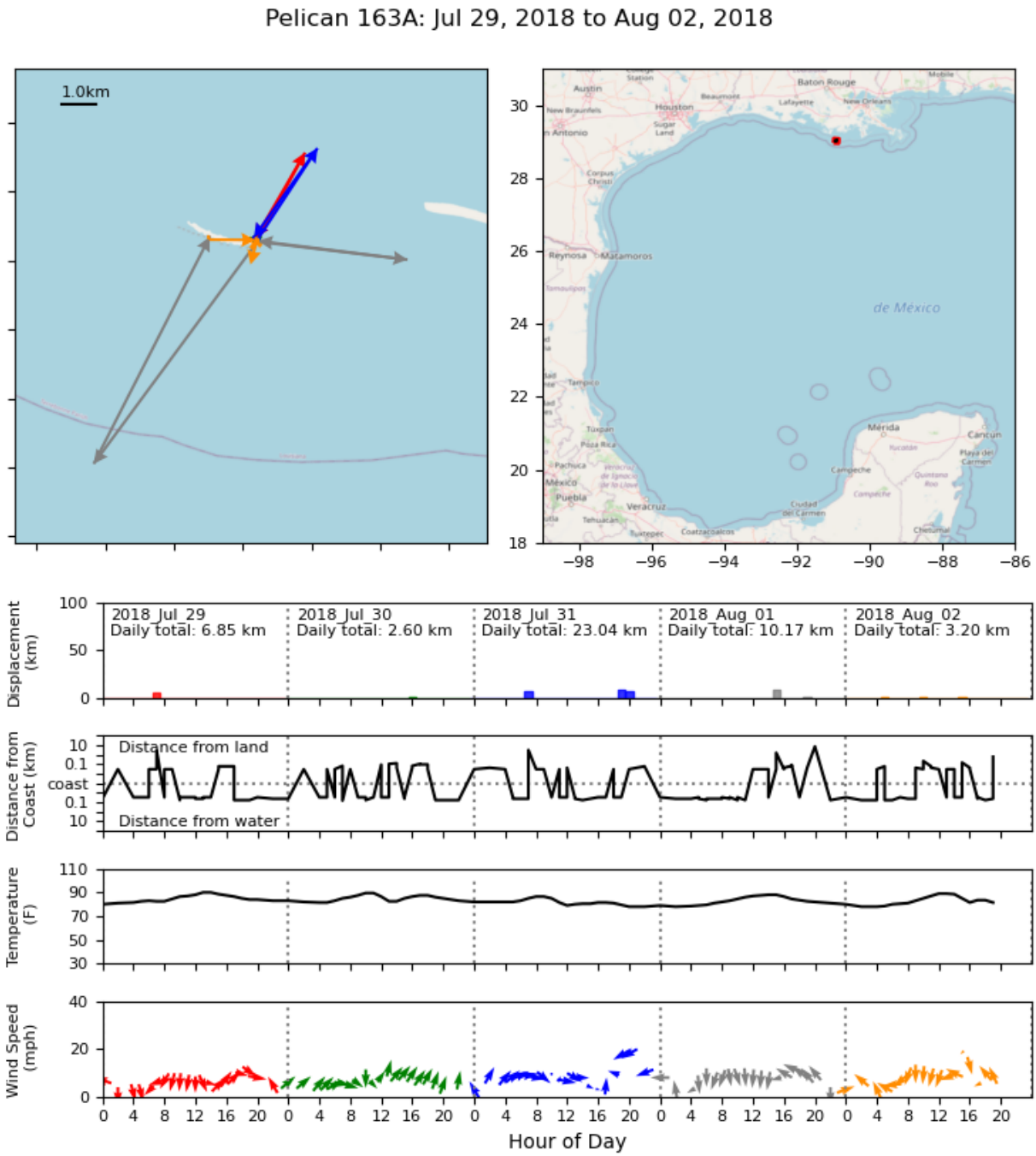

Figure 476 - Maps and graphs showing movements of 163A between 2018-07-29 and 2018-08-01 inclusive.

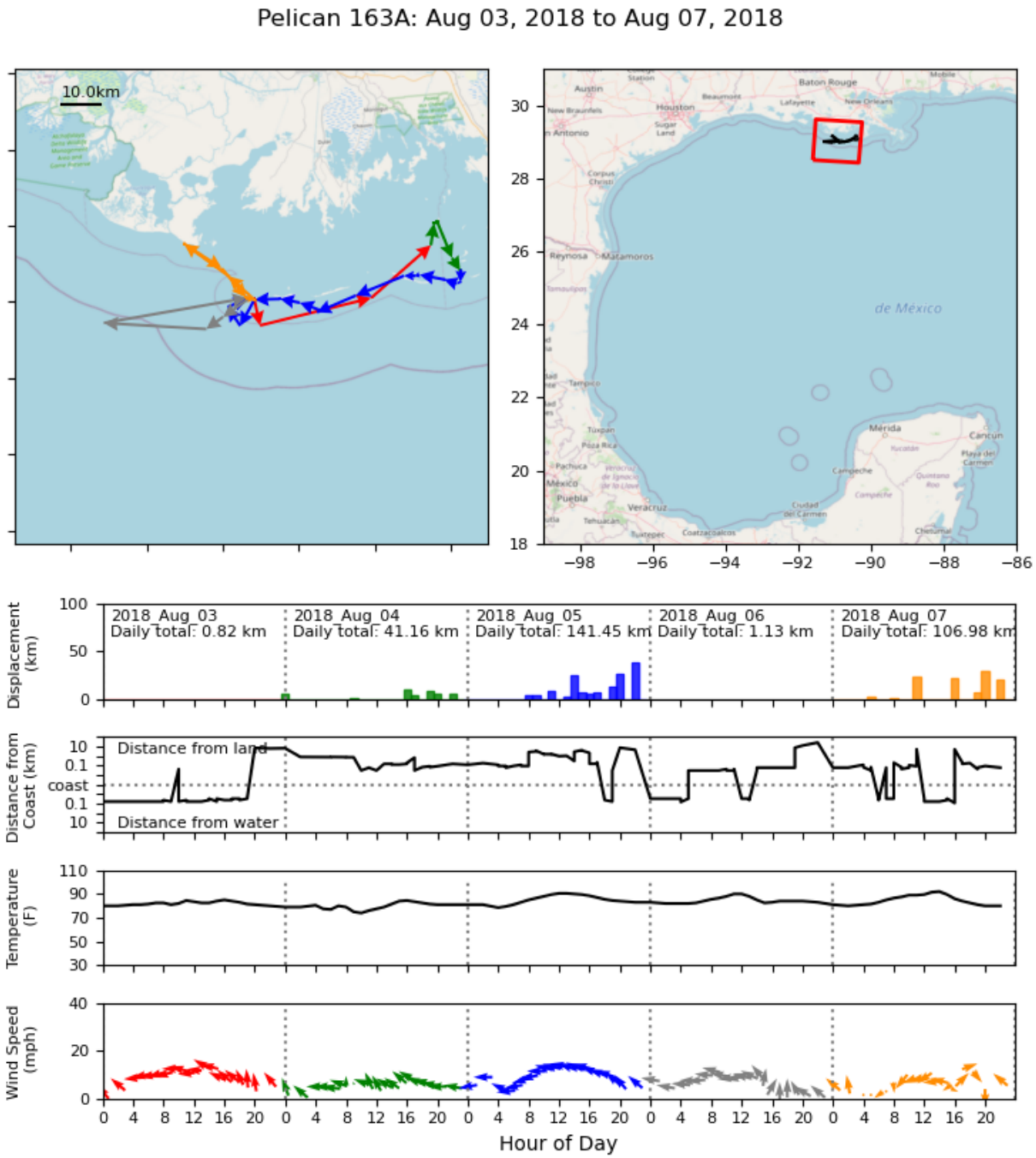

Figure 477 - Maps and graphs showing movements of 163A between 2018-08-03 and 2018-08-06 inclusive.

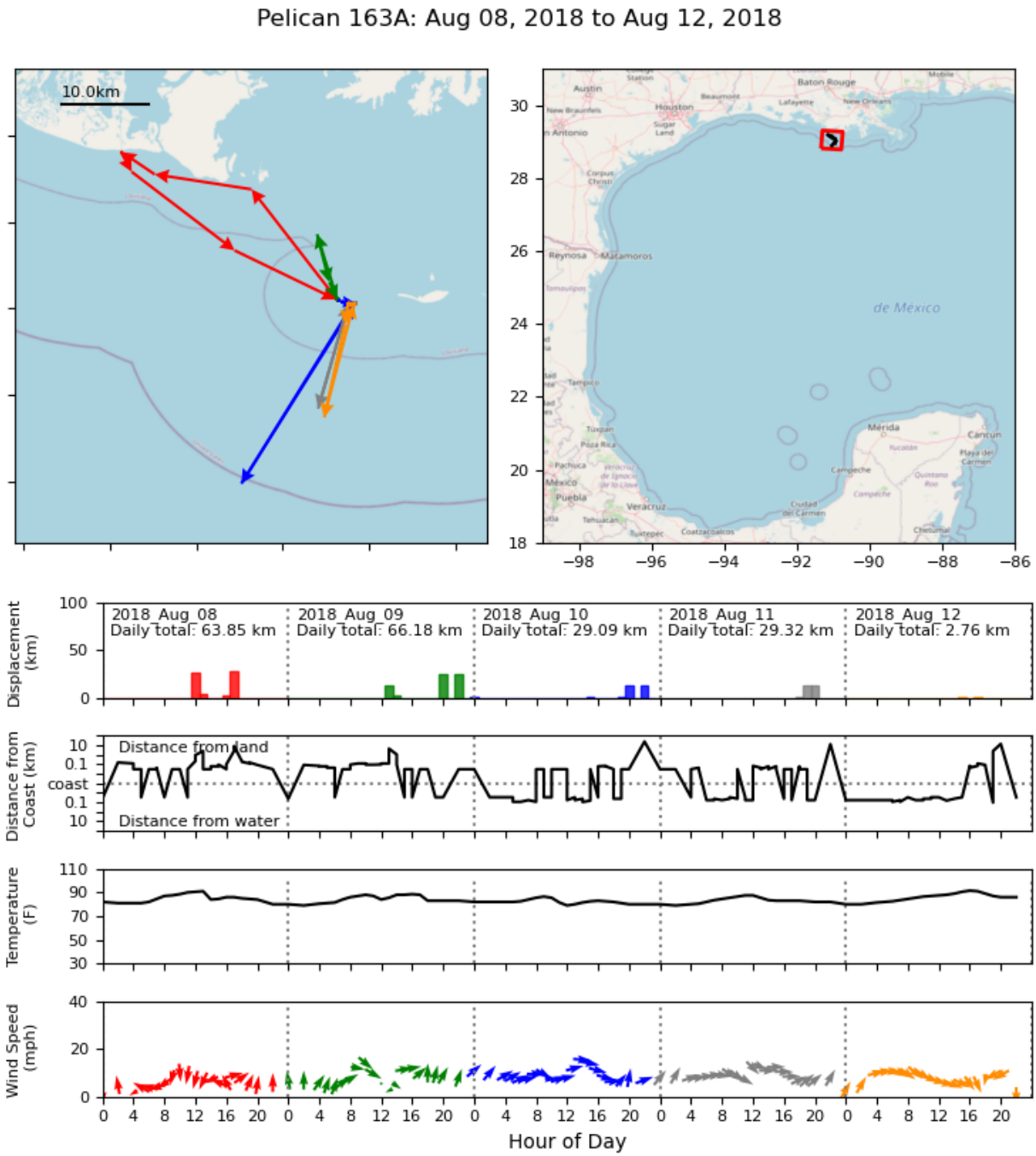

Figure 478 - Maps and graphs showing movements of 163A between 2018-08-08 and 2018-08-11 inclusive.

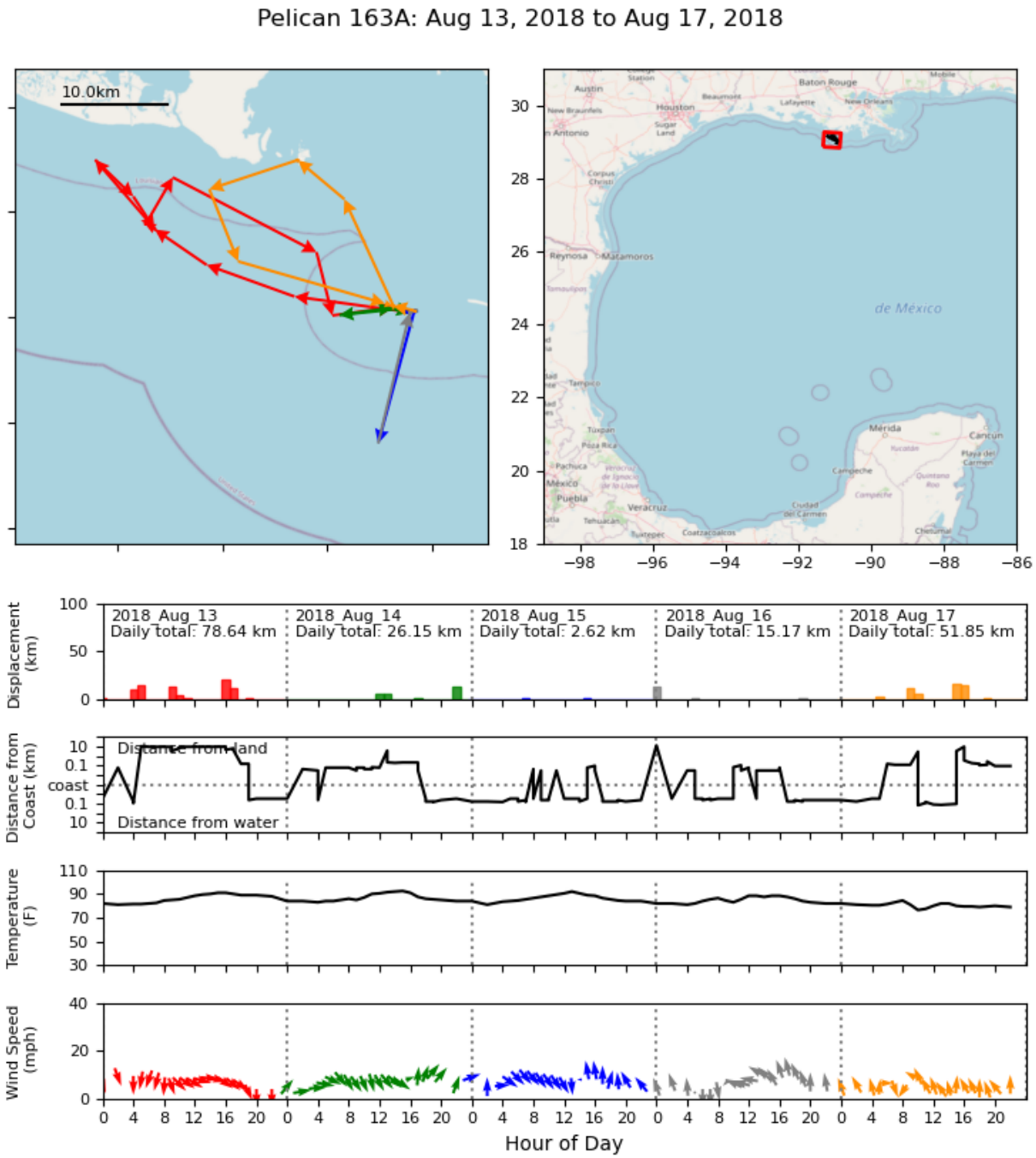

Figure 479 - Maps and graphs showing movements of 163A between 2018-08-13 and 2018-08-16 inclusive.

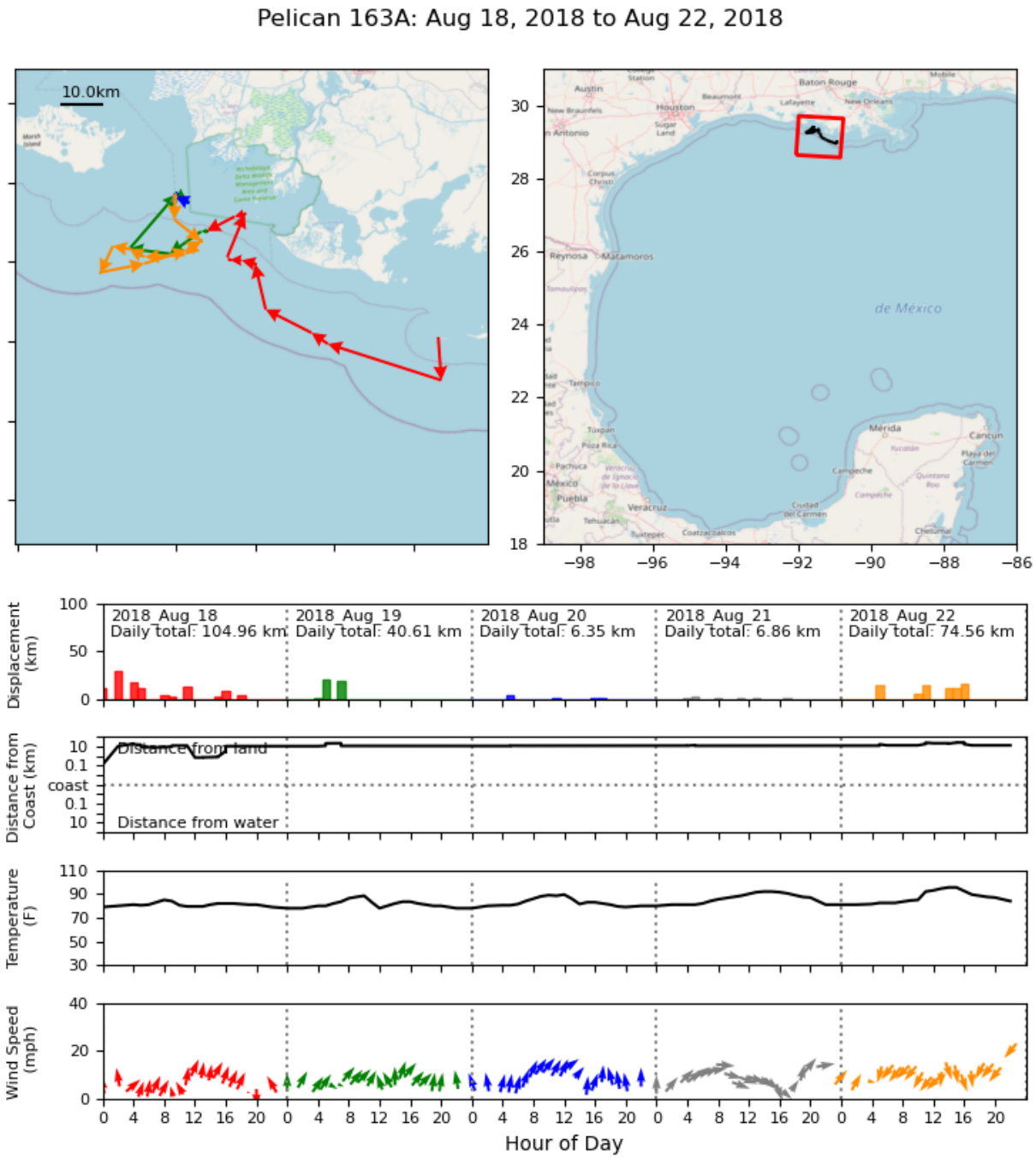

Figure 480 - Maps and graphs showing movements of 163A between 2018-08-18 and 2018-08-21 inclusive.

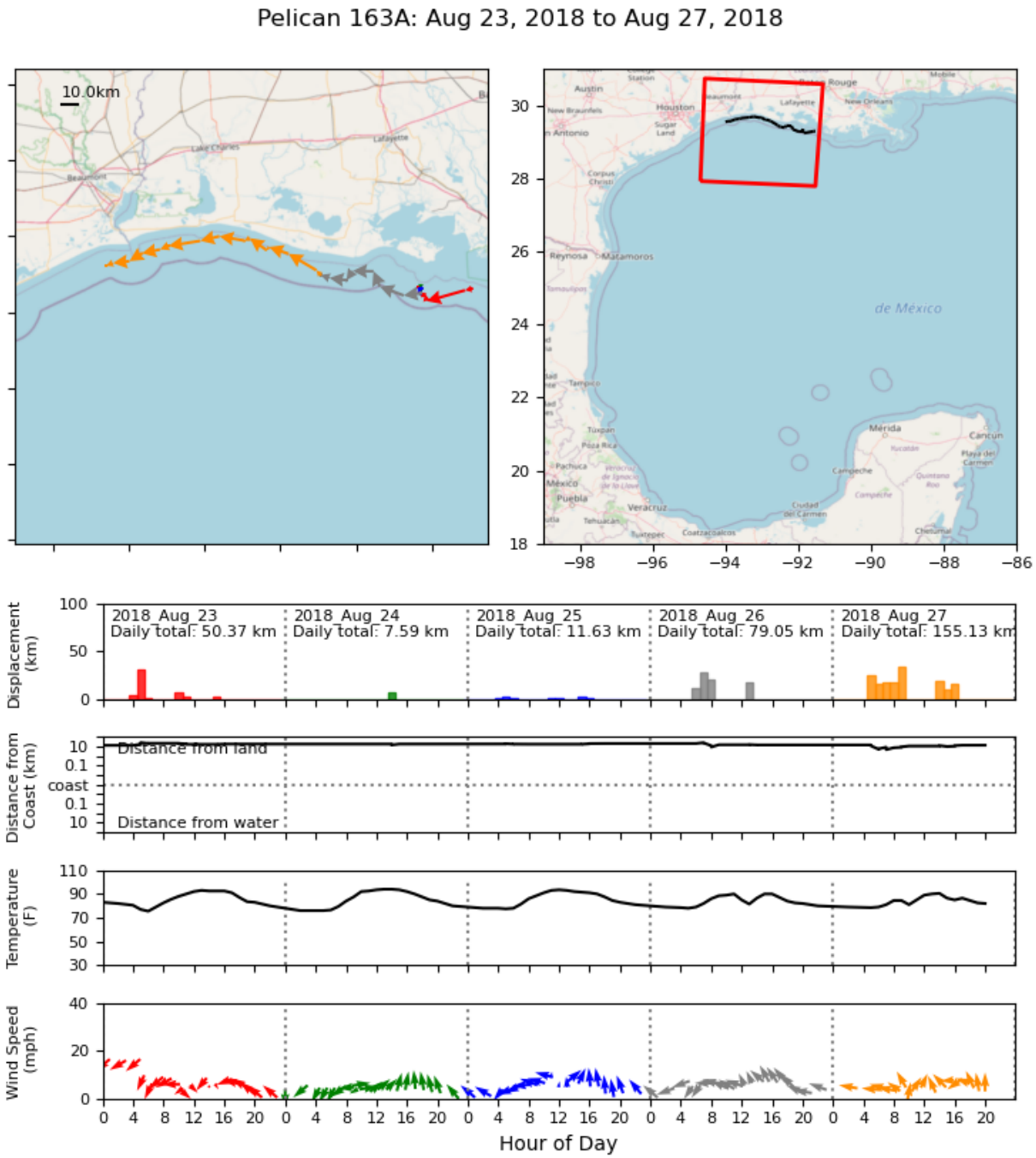

Figure 481 - Maps and graphs showing movements of 163A between 2018-08-23 and 2018-08-26 inclusive.

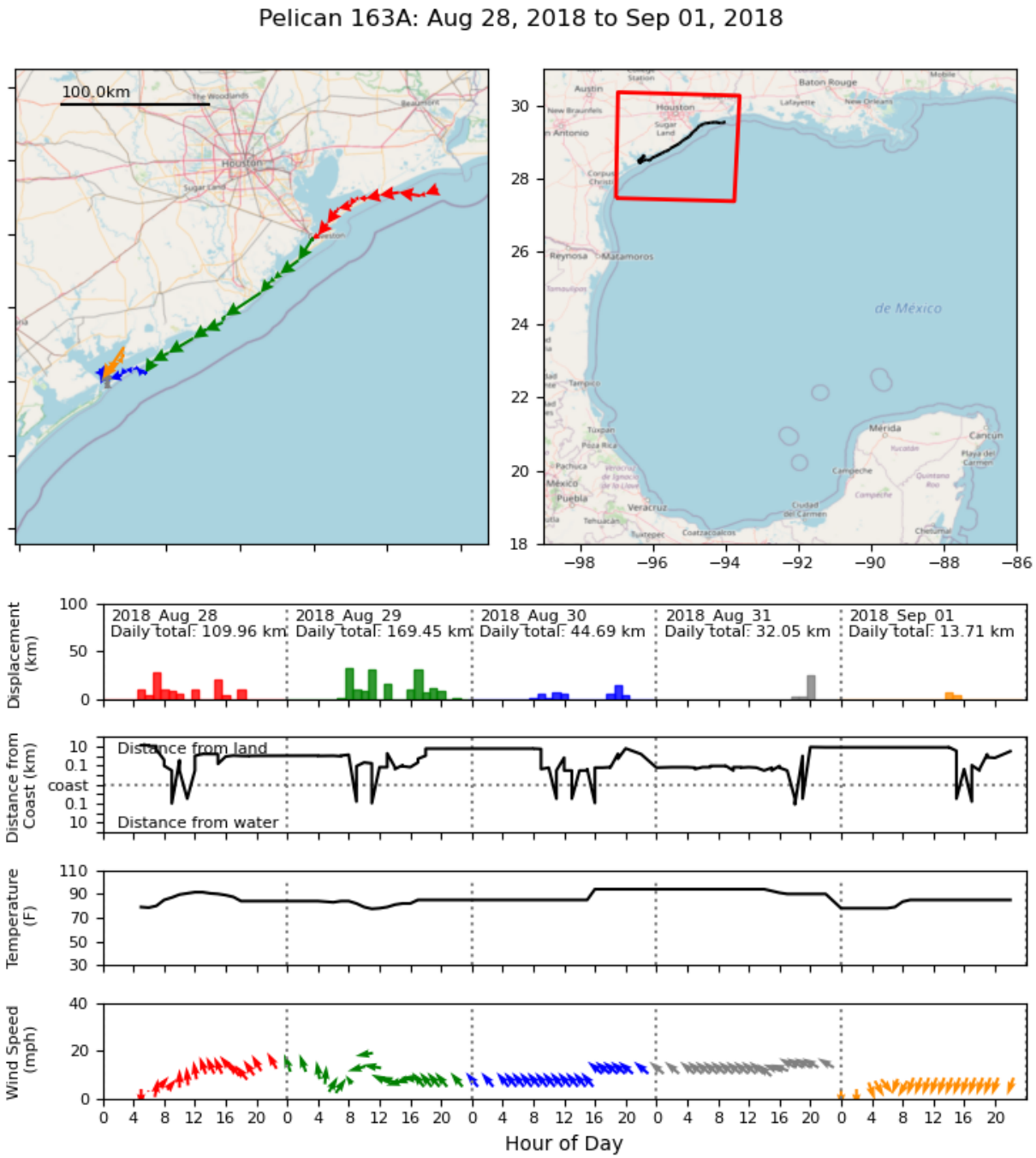

Figure 482 - Maps and graphs showing movements of 163A between 2018-08-28 and 2018-08-31 inclusive.

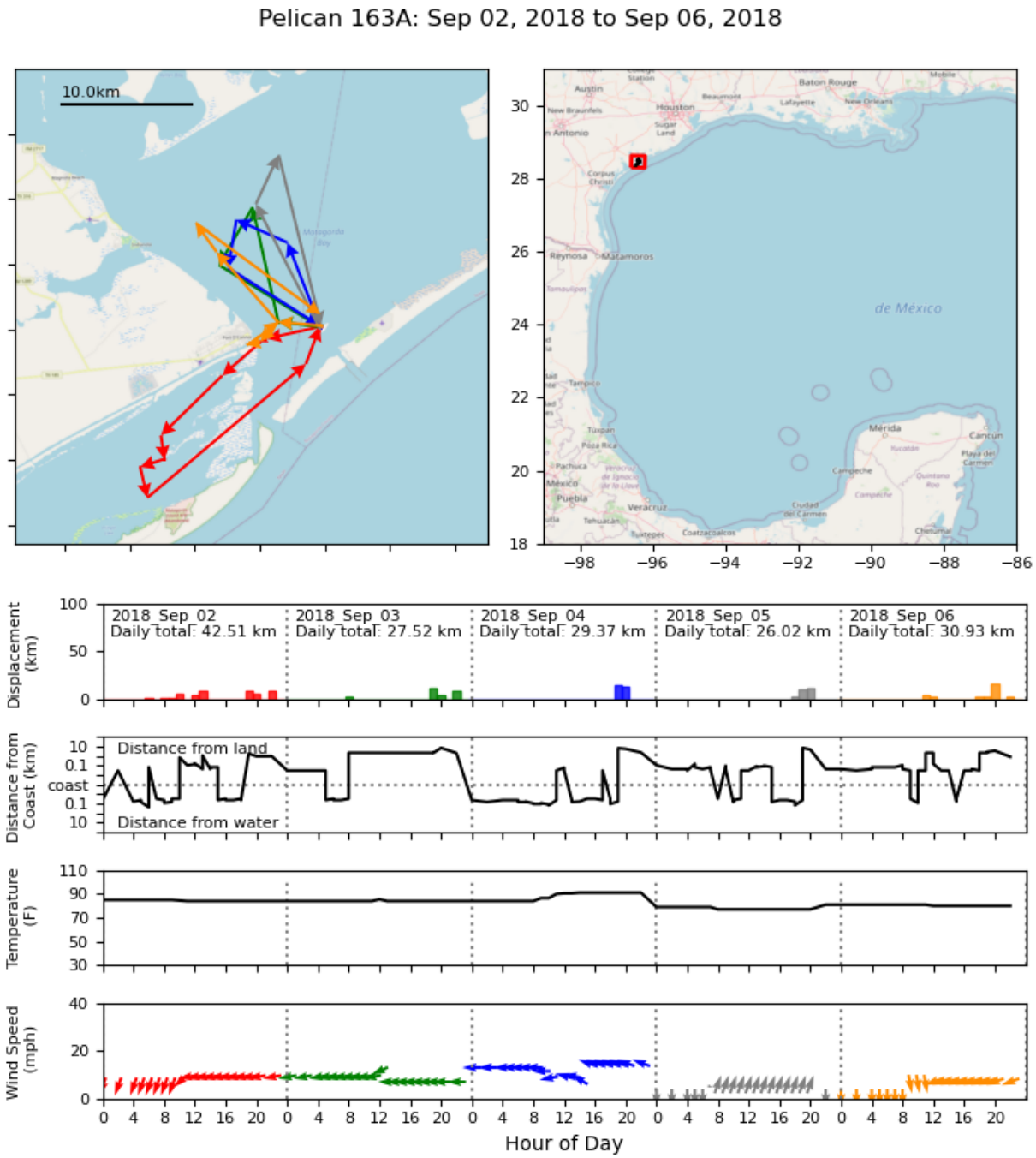

Figure 483 - Maps and graphs showing movements of 163A between 2018-09-02 and 2018-09-05 inclusive.

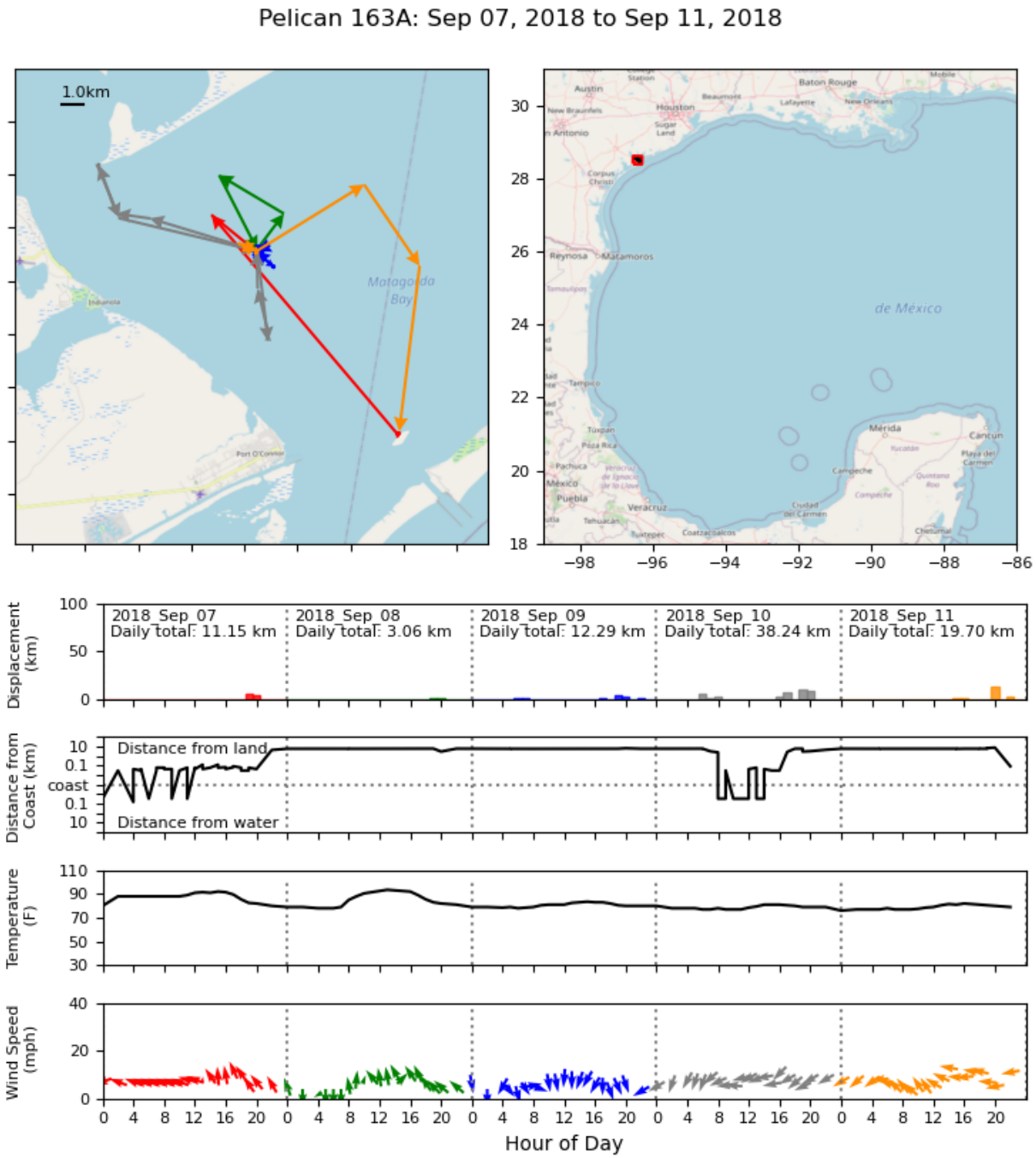

Figure 484 - Maps and graphs showing movements of 163A between 2018-09-07 and 2018-09-10 inclusive.

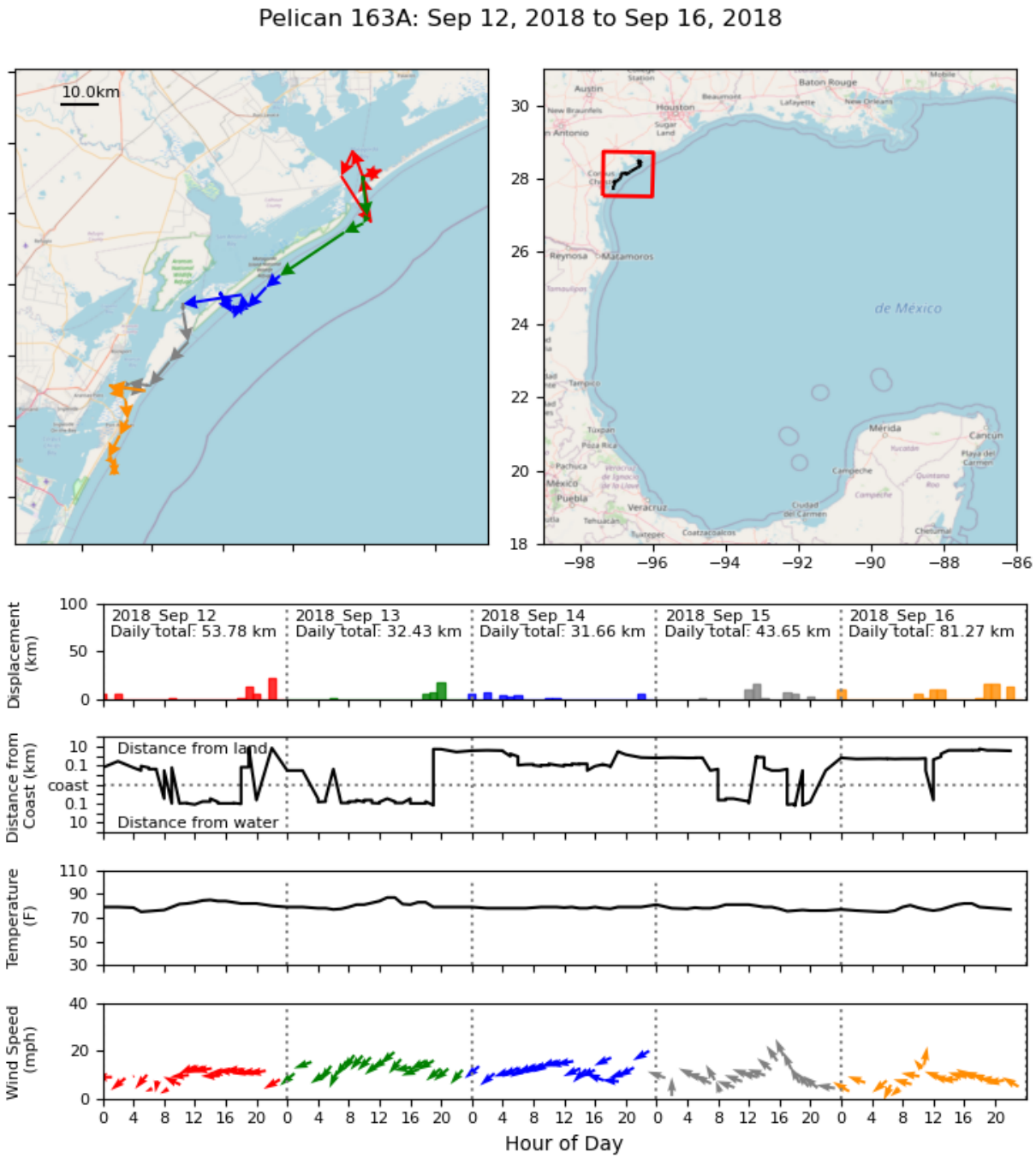

Figure 485 - Maps and graphs showing movements of 163A between 2018-09-12 and 2018-09-15 inclusive.

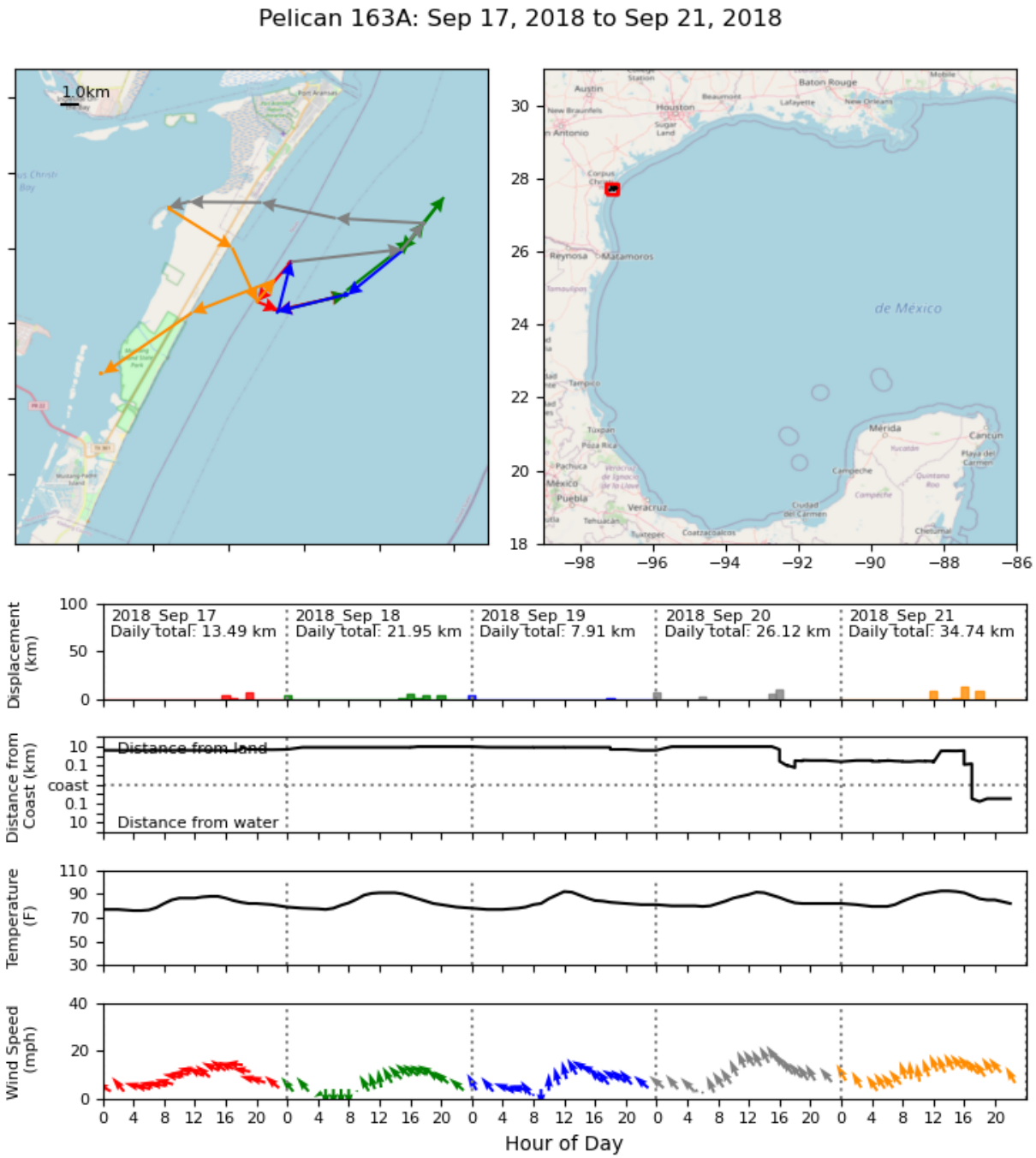

Figure 486 - Maps and graphs showing movements of 163A between 2018-09-17 and 2018-09-20 inclusive.

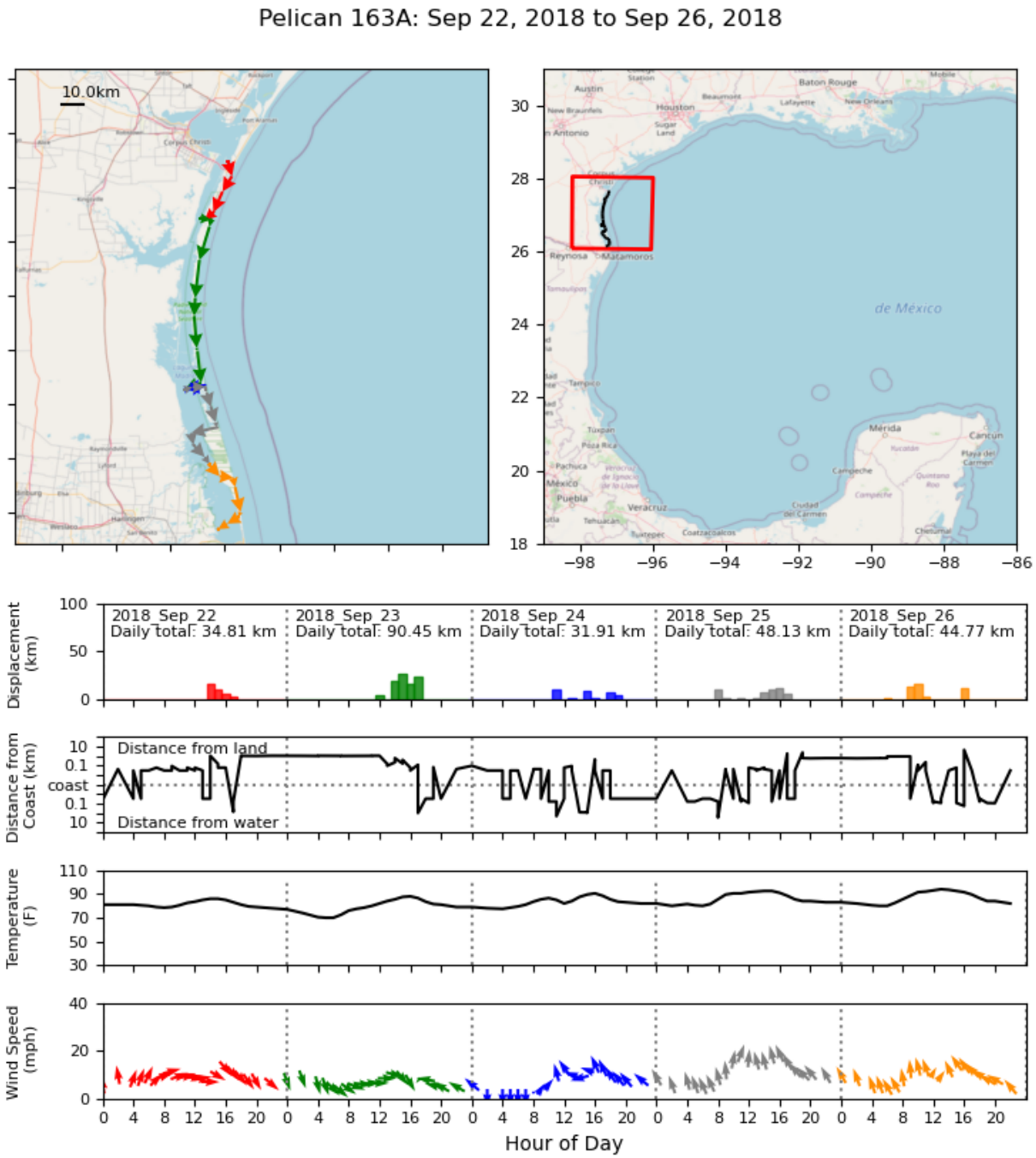

Figure 487 - Maps and graphs showing movements of 163A between 2018-09-22 and 2018-09-25 inclusive.

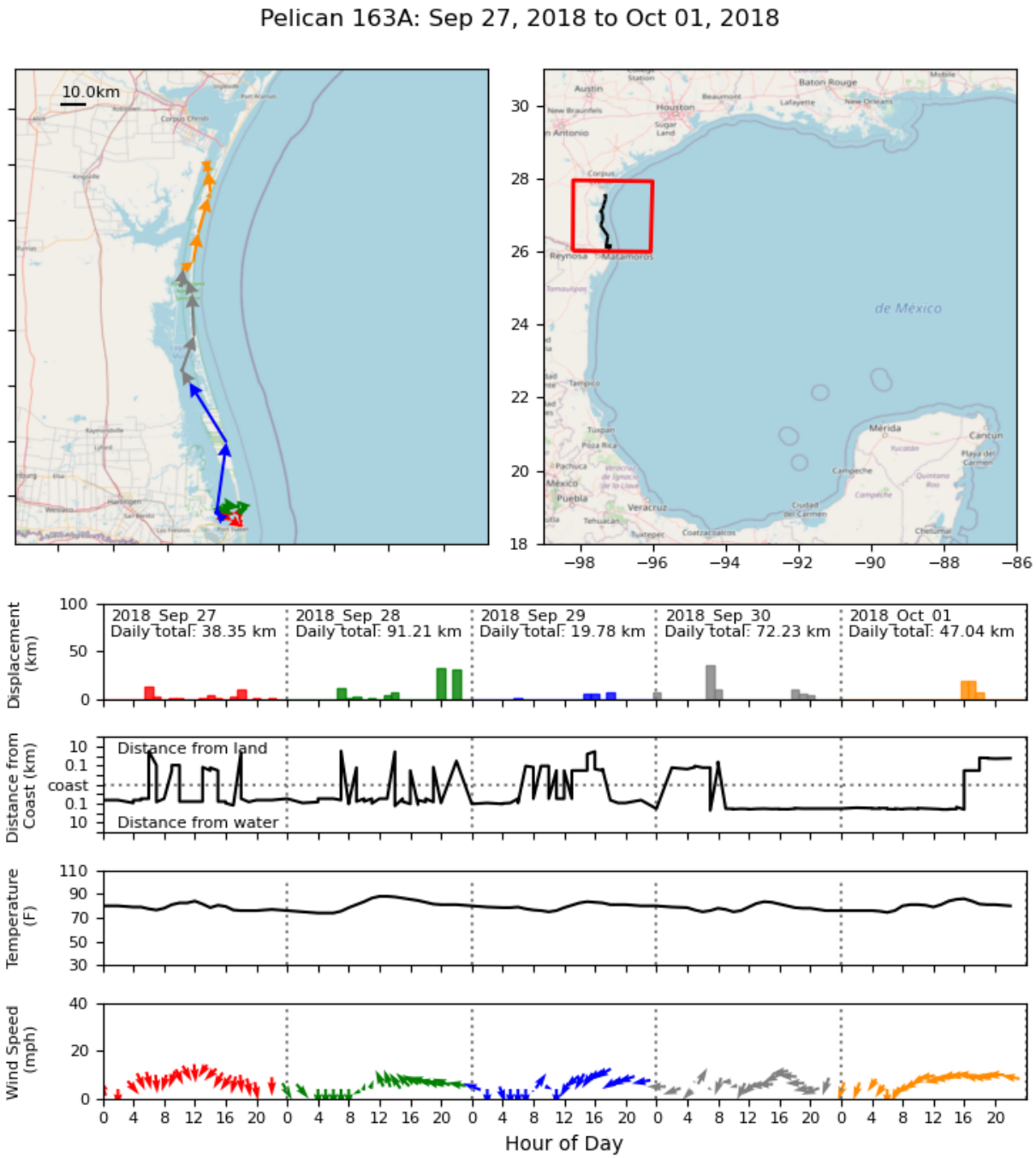

Figure 488 - Maps and graphs showing movements of 163A between 2018-09-27 and 2018-09-30 inclusive.

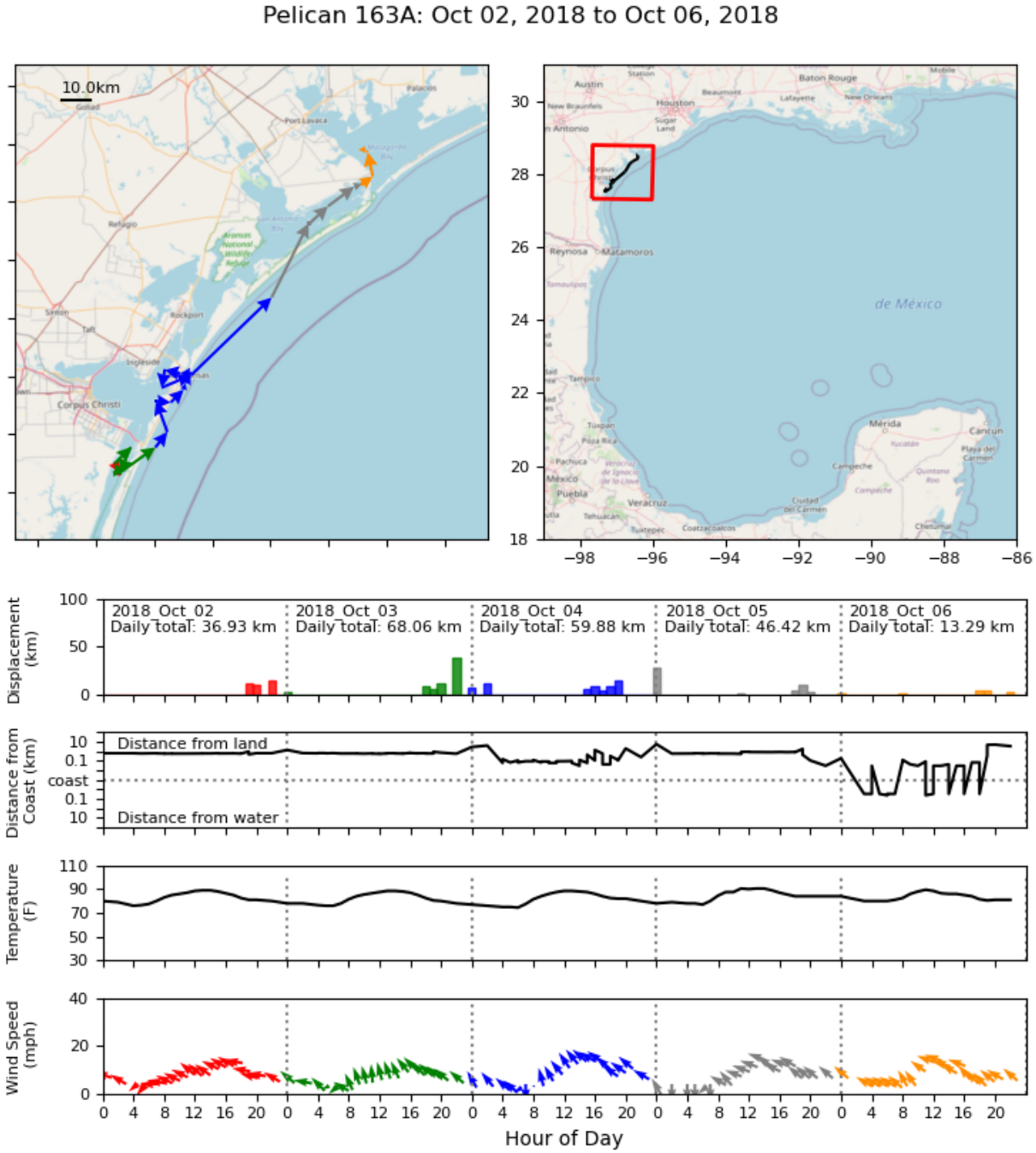

Figure 489 - Maps and graphs showing movements of 163A between 2018-10-02 and 2018-10-05 inclusive.

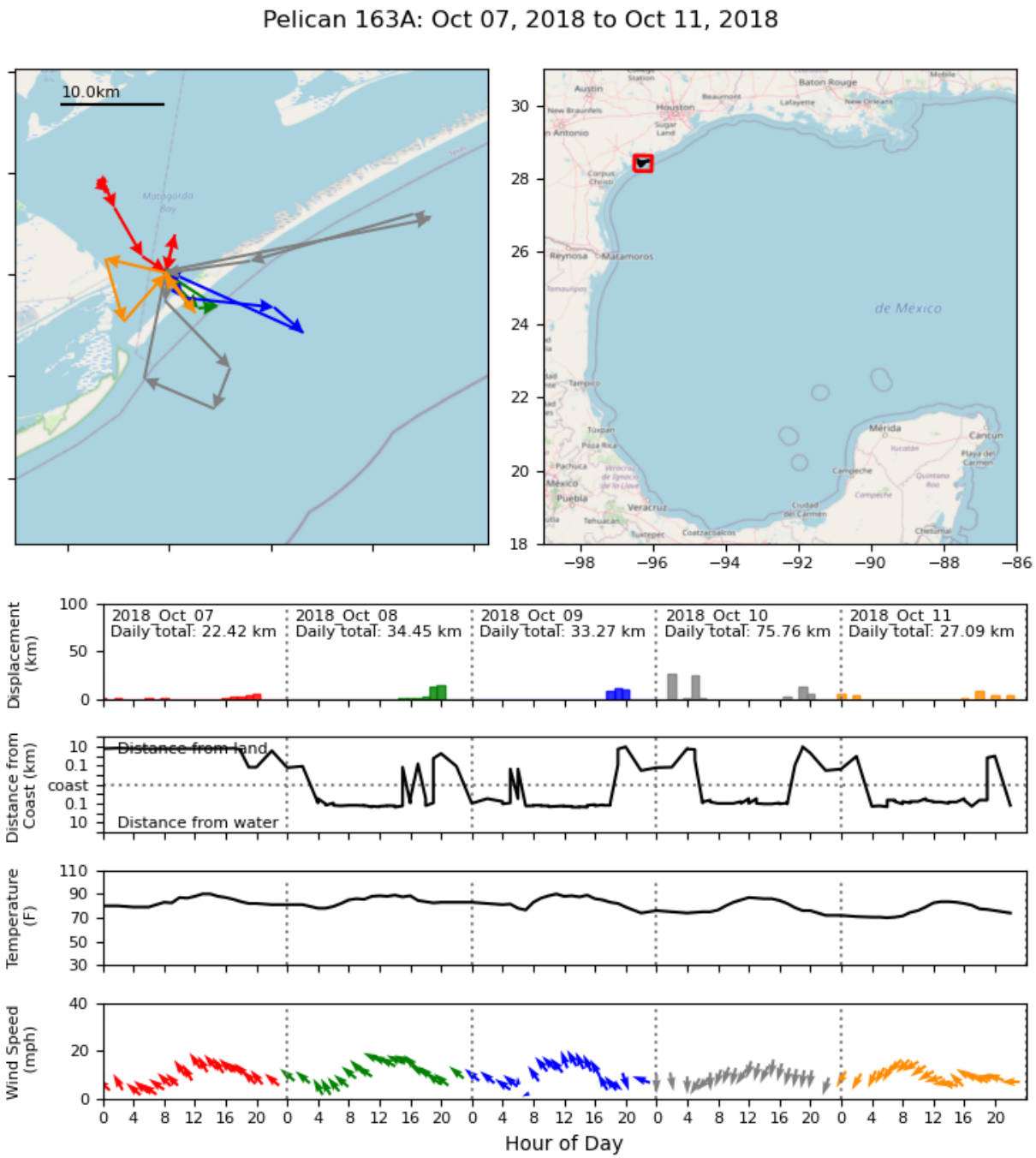

Figure 490 - Maps and graphs showing movements of 163A between 2018-10-07 and 2018-10-10 inclusive.

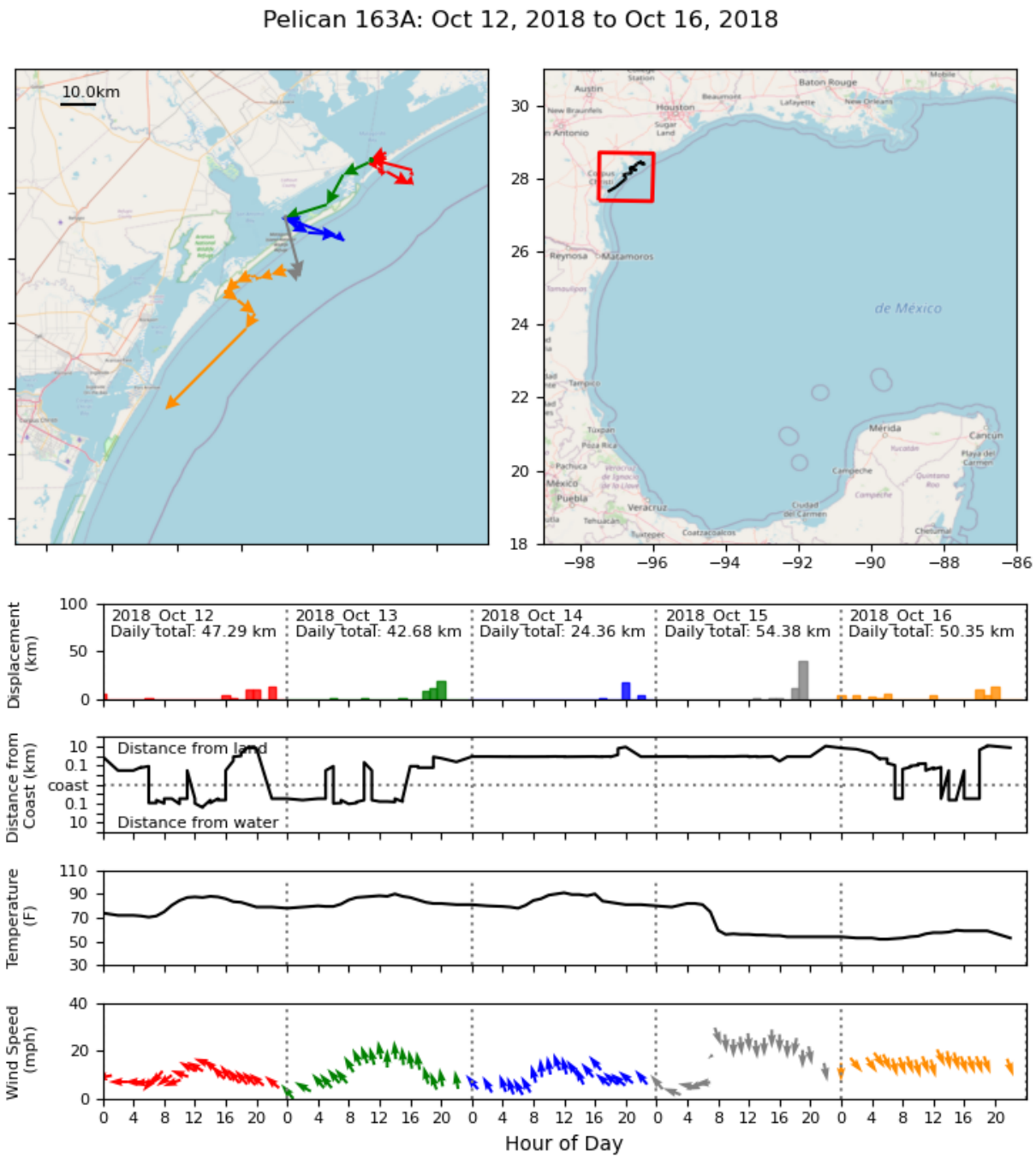

Figure 491 - Maps and graphs showing movements of 163A between 2018-10-12 and 2018-10-15 inclusive.

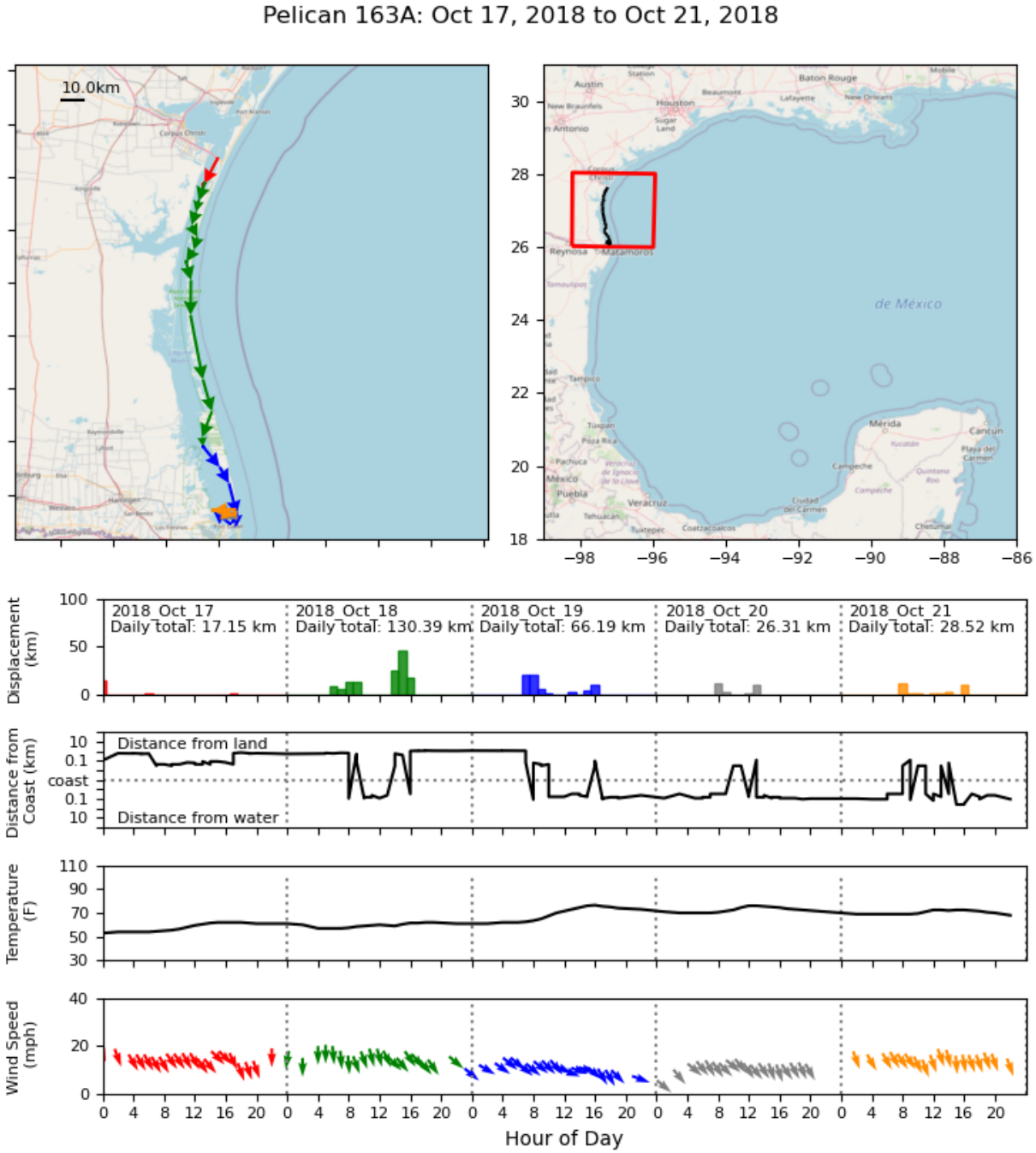

Figure 492 - Maps and graphs showing movements of 163A between 2018-10-17 and 2018-10-20 inclusive.

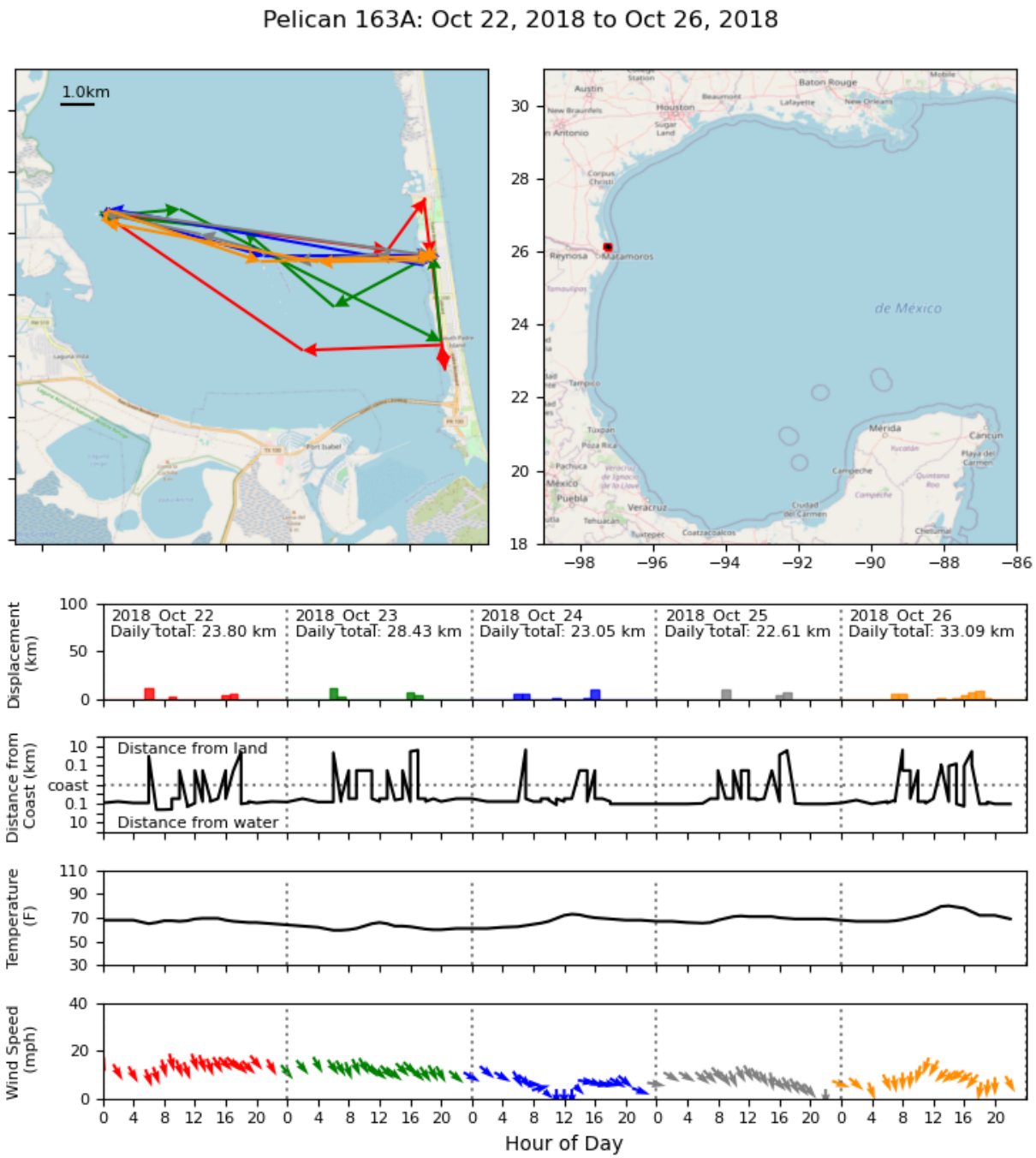

Figure 493 - Maps and graphs showing movements of 163A between 2018-10-22 and 2018-10-25 inclusive.

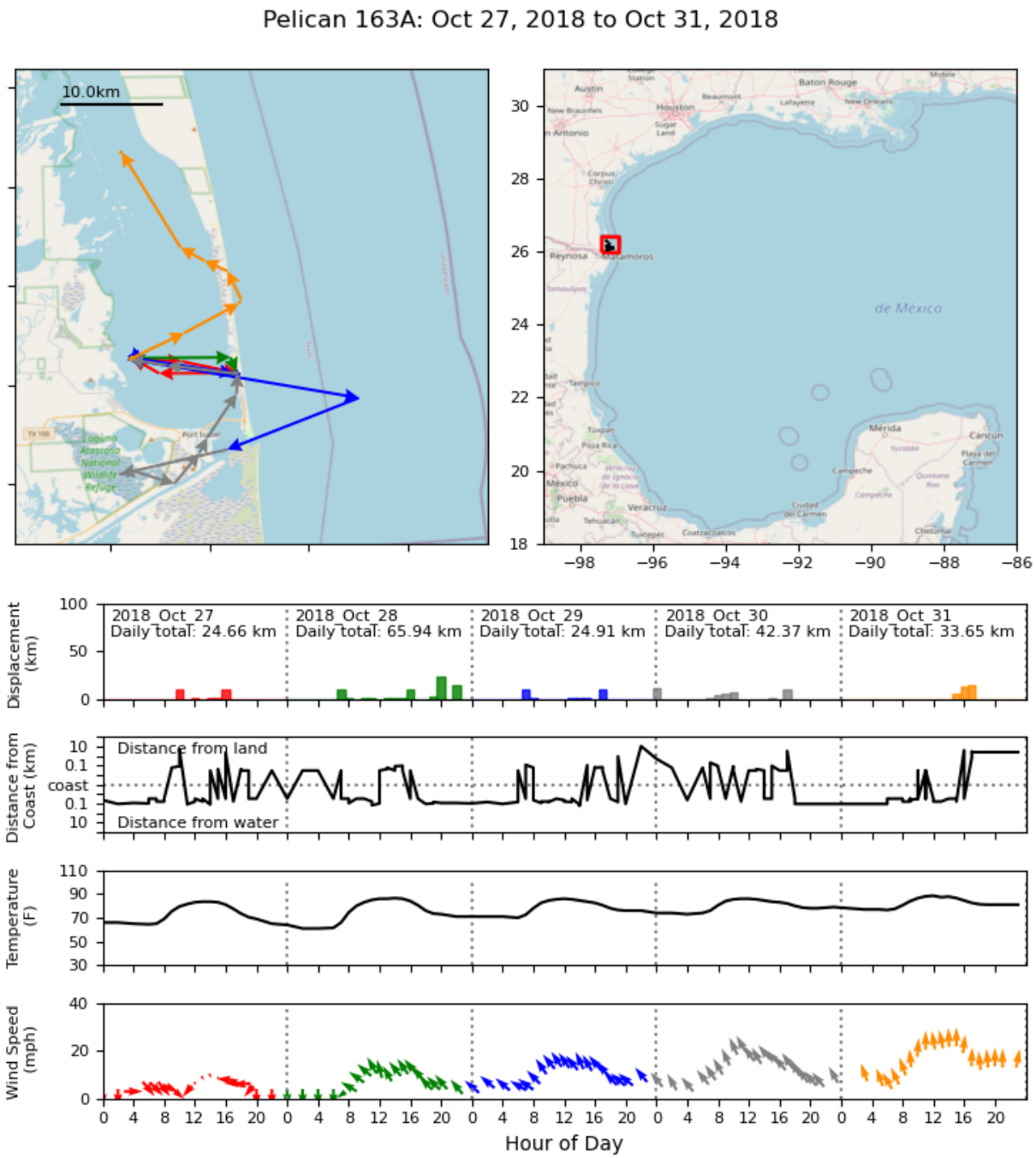

Figure 494 - Maps and graphs showing movements of 163A between 2018-10-27 and 2018-10-30 inclusive.

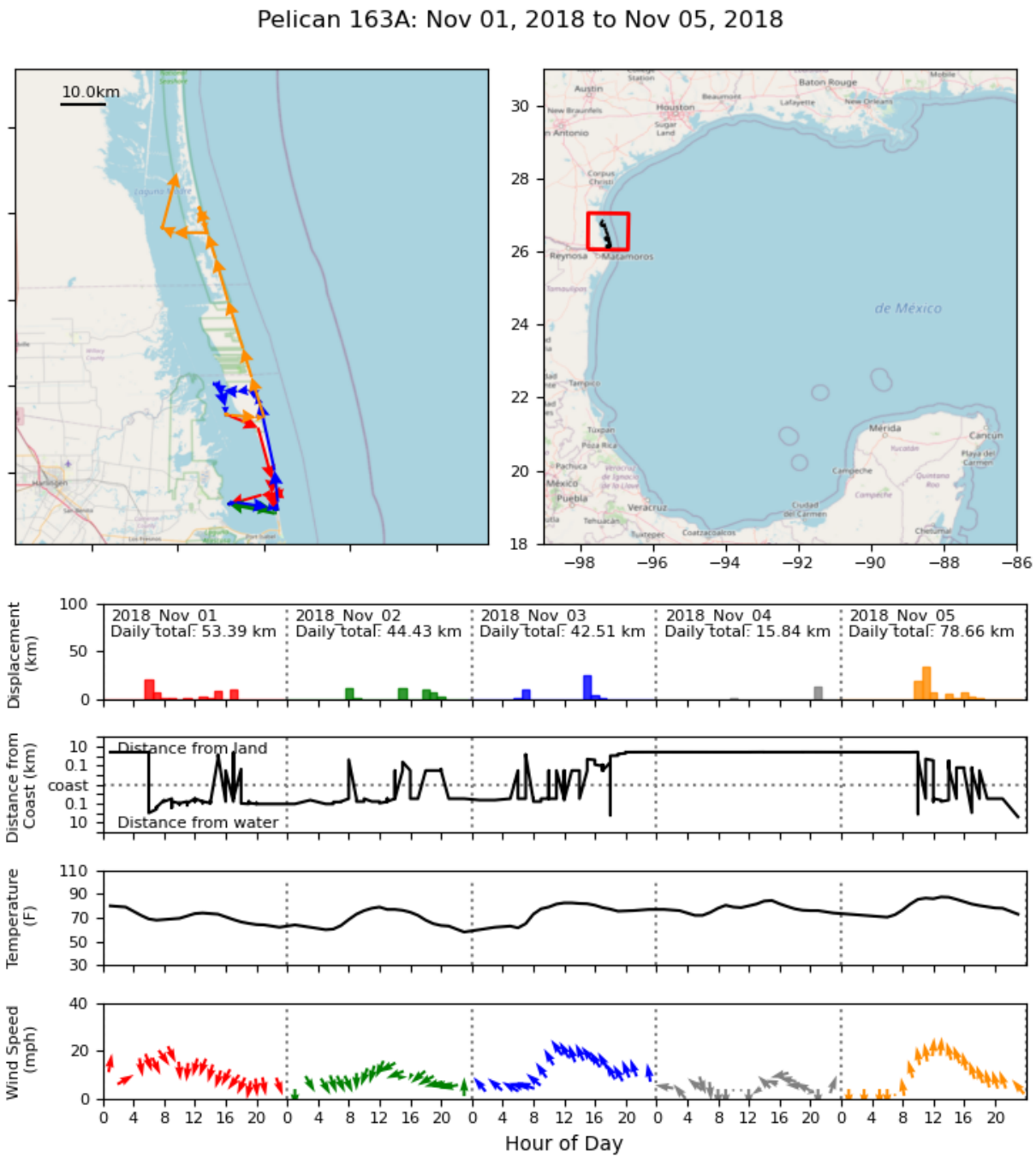

Figure 495 - Maps and graphs showing movements of 163A between 2018-11-01 and 2018-11-04 inclusive.

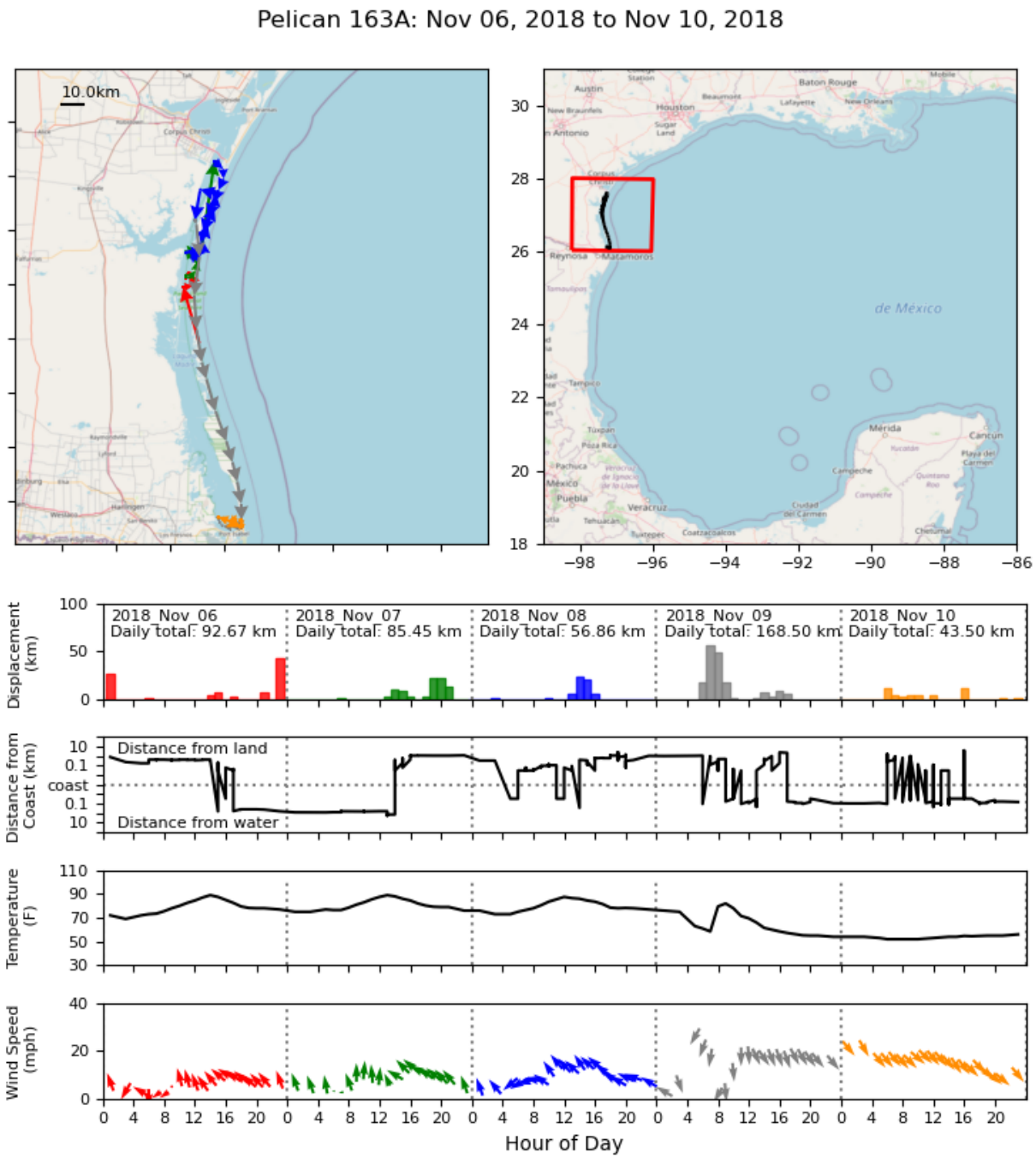

Figure 496 - Maps and graphs showing movements of 163A between 2018-11-06 and 2018-11-09 inclusive.

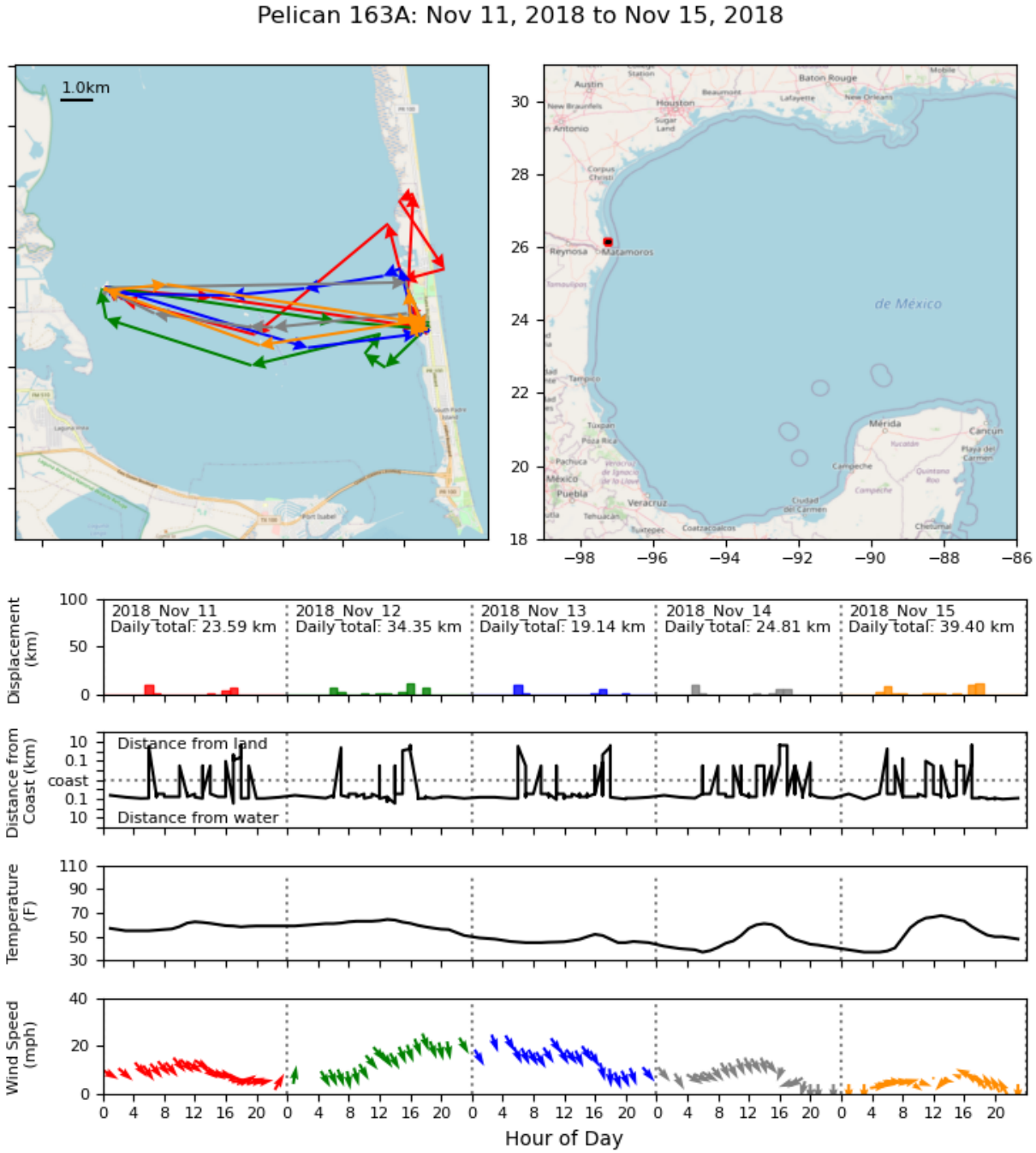

Figure 497 - Maps and graphs showing movements of 163A between 2018-11-11 and 2018-11-14 inclusive.

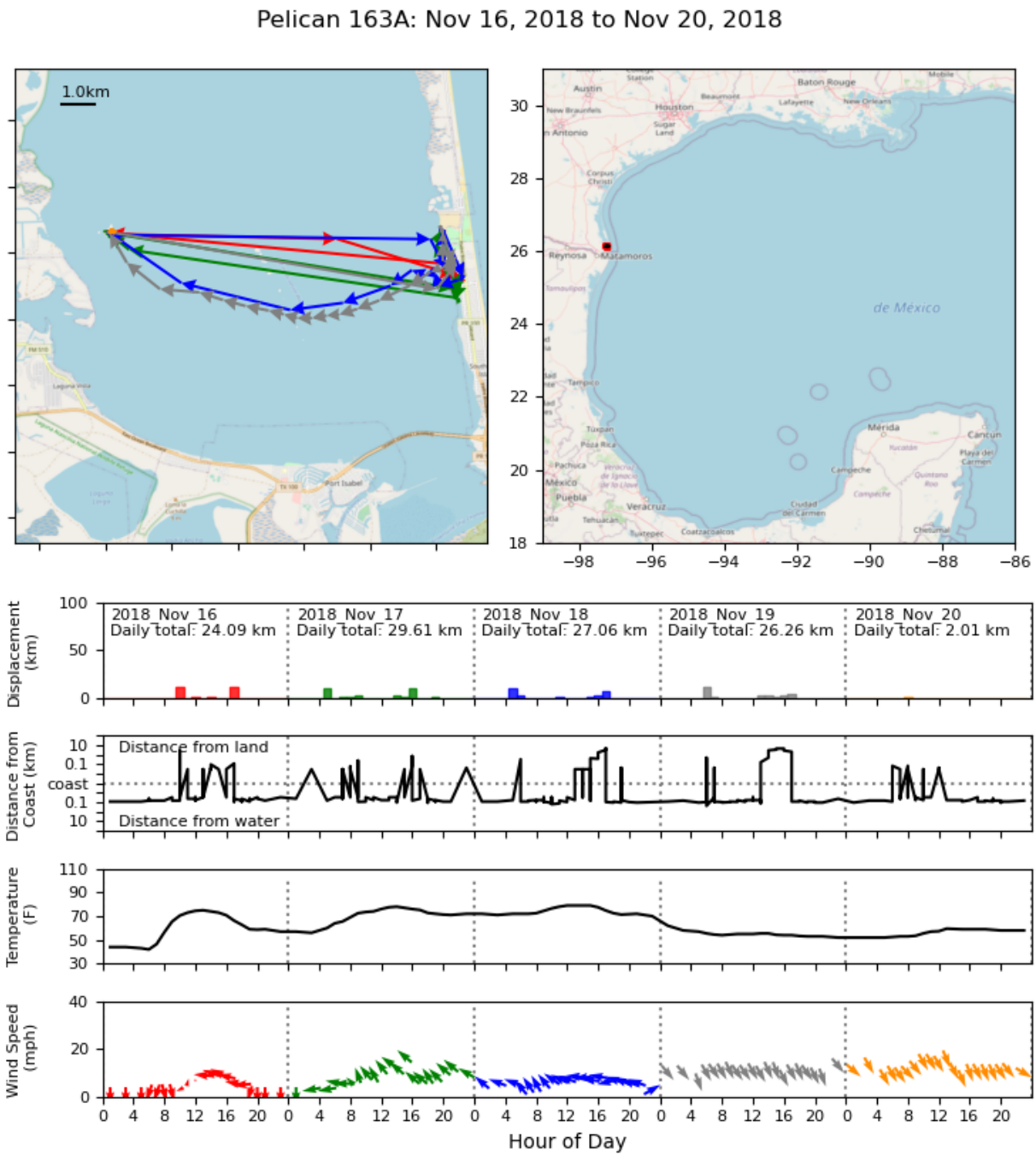

Figure 498 - Maps and graphs showing movements of 163A between 2018-11-16 and 2018-11-19 inclusive.

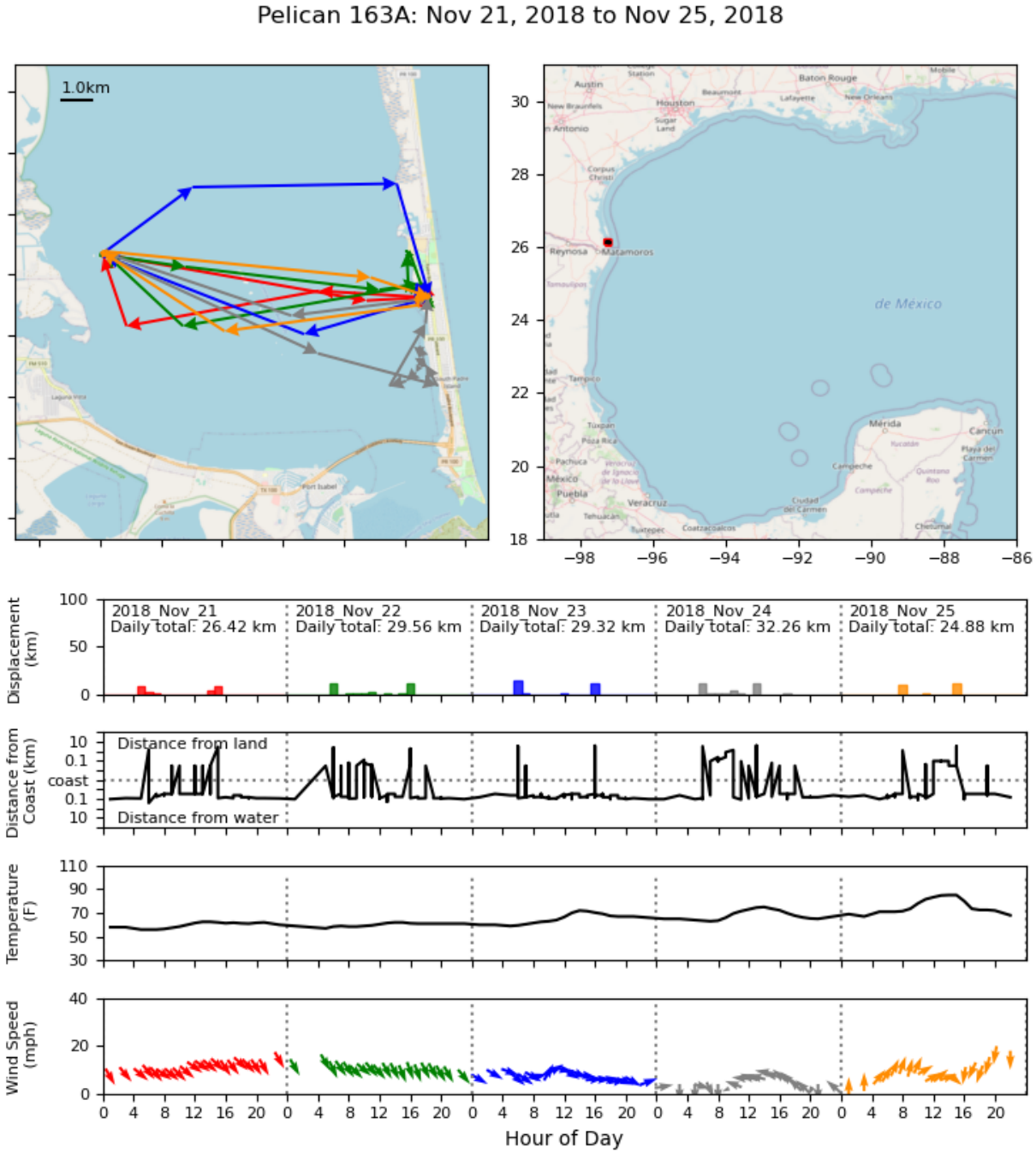

Figure 499 - Maps and graphs showing movements of 163A between 2018-11-21 and 2018-11-24 inclusive.

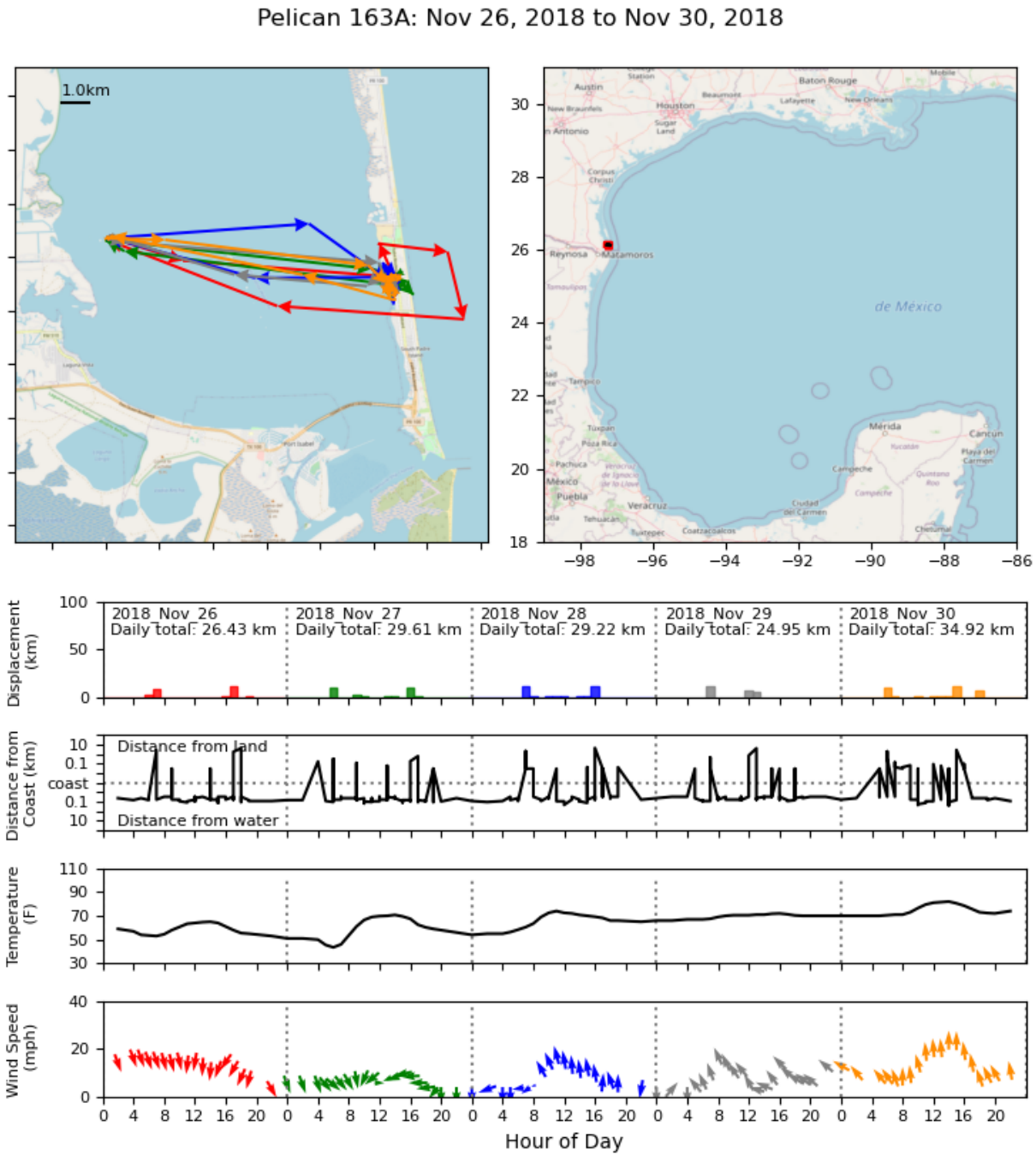

Figure 500 - Maps and graphs showing movements of 163A between 2018-11-26 and 2018-11-29 inclusive.

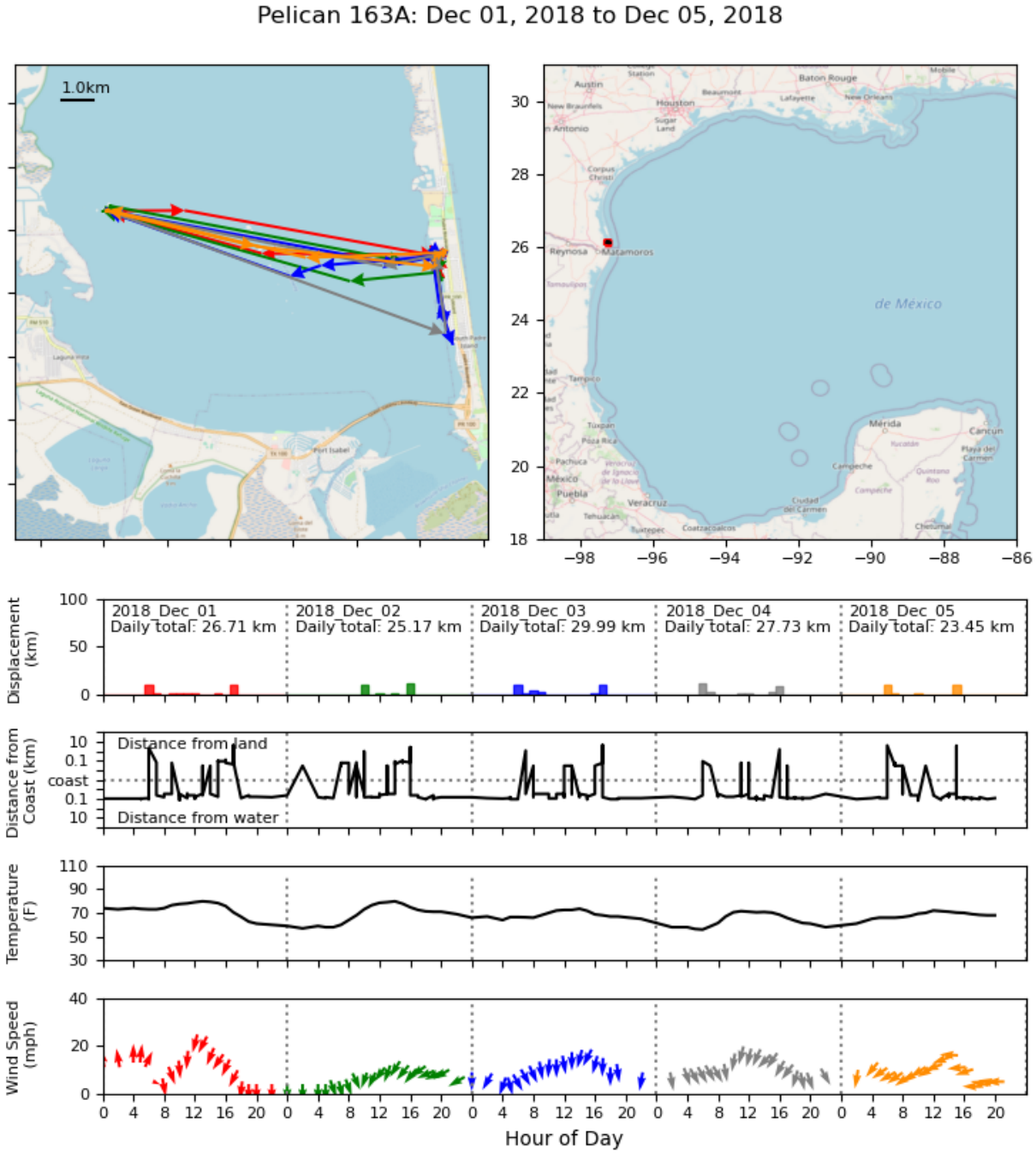

Figure 501 - Maps and graphs showing movements of 163A between 2018-12-01 and 2018-12-04 inclusive.

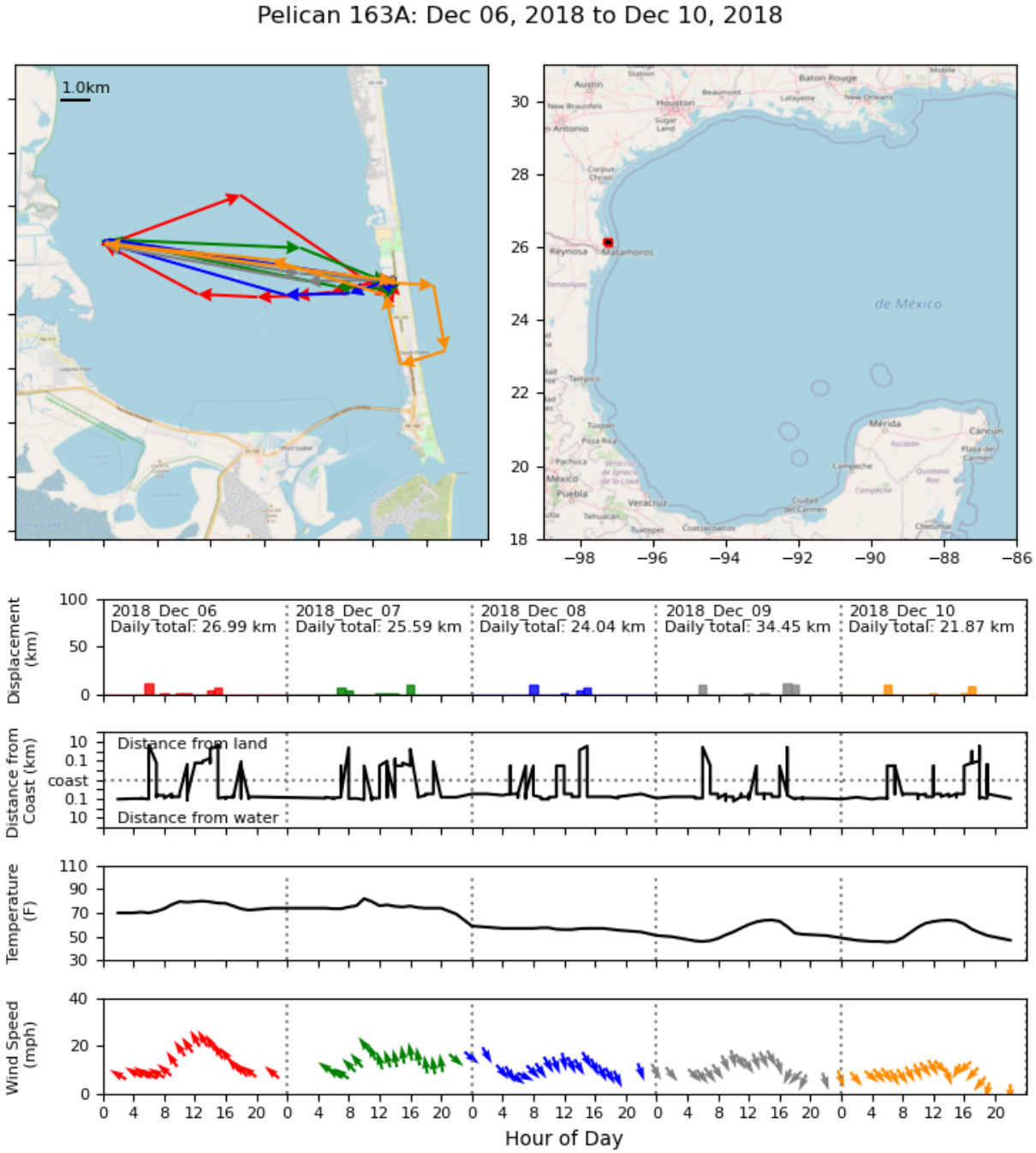

Figure 502 - Maps and graphs showing movements of 163A between 2018-12-06 and 2018-12-09 inclusive.

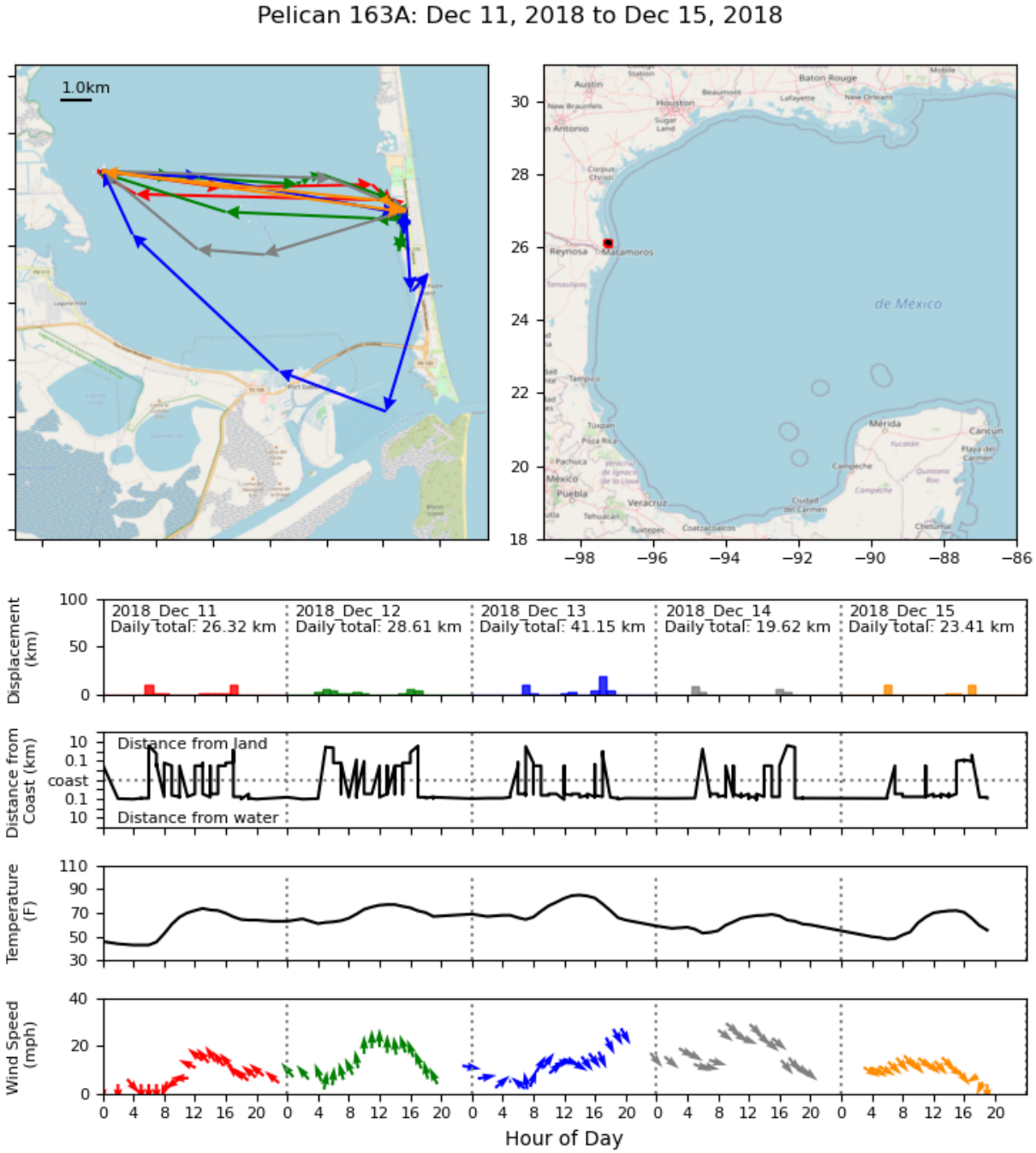

Figure 503 - Maps and graphs showing movements of 163A between 2018-12-11 and 2018-12-14 inclusive.

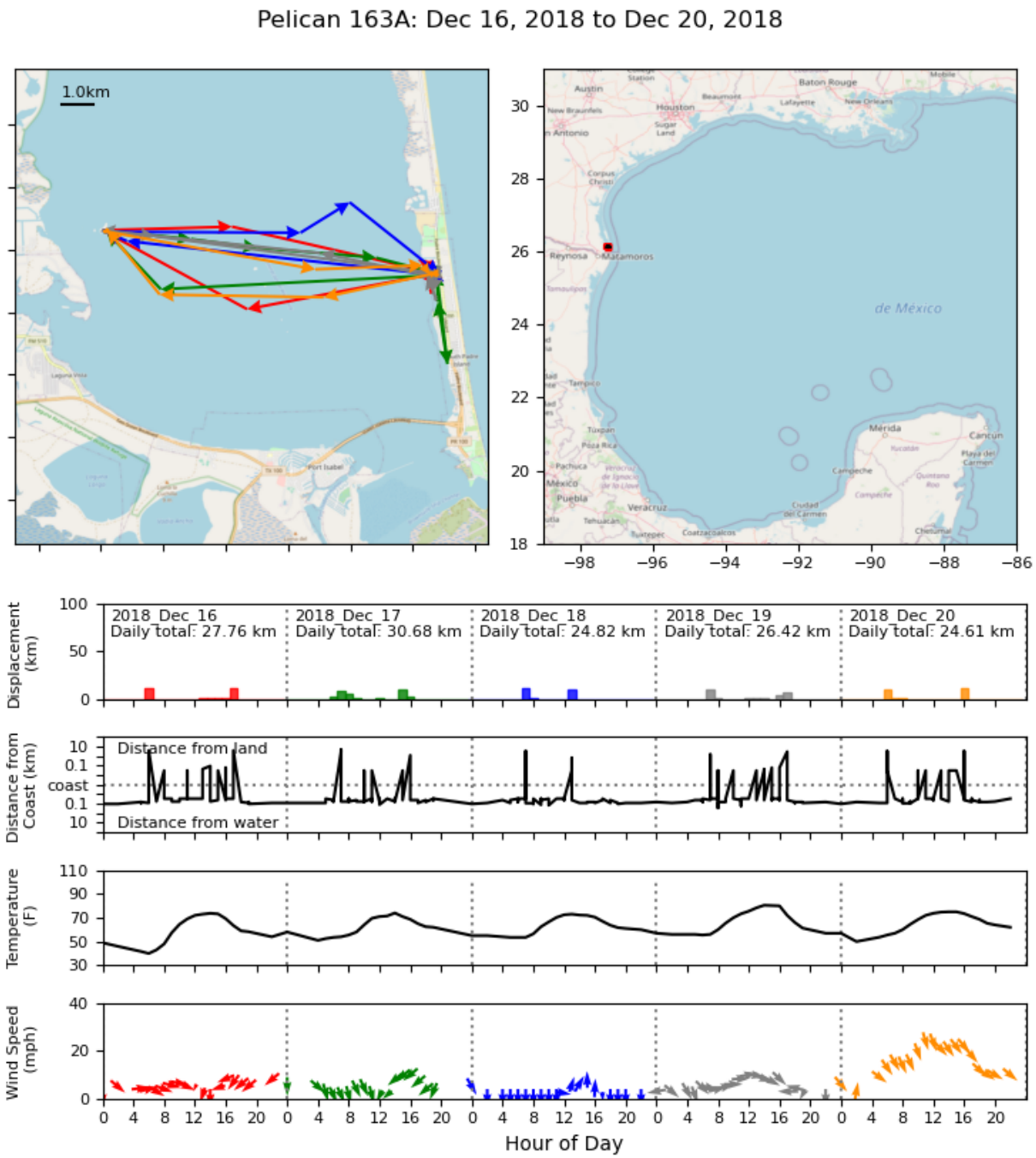

Figure 504 - Maps and graphs showing movements of 163A between 2018-12-16 and 2018-12-19 inclusive.

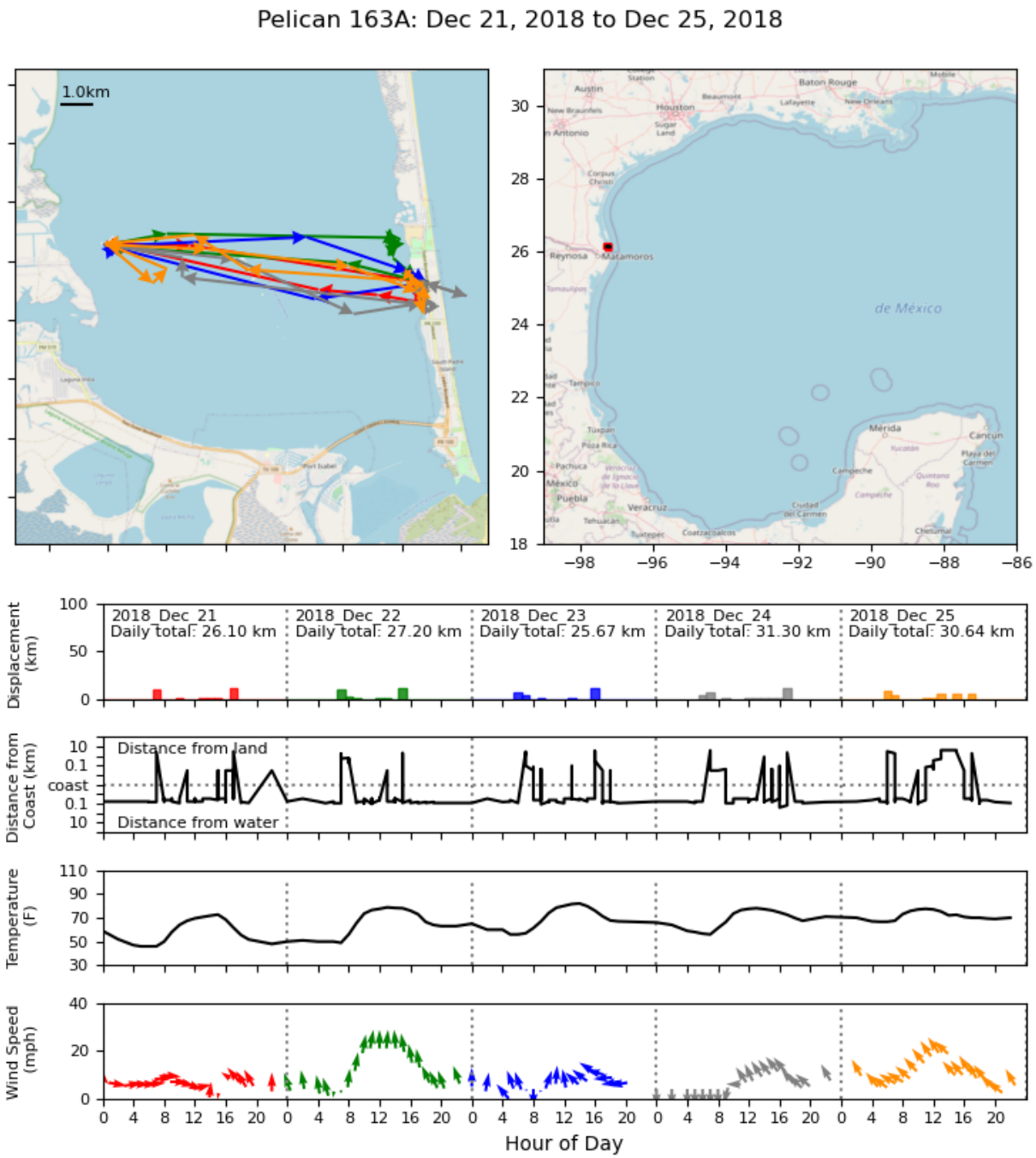

Figure 505 - Maps and graphs showing movements of 163A between 2018-12-21 and 2018-12-24 inclusive.

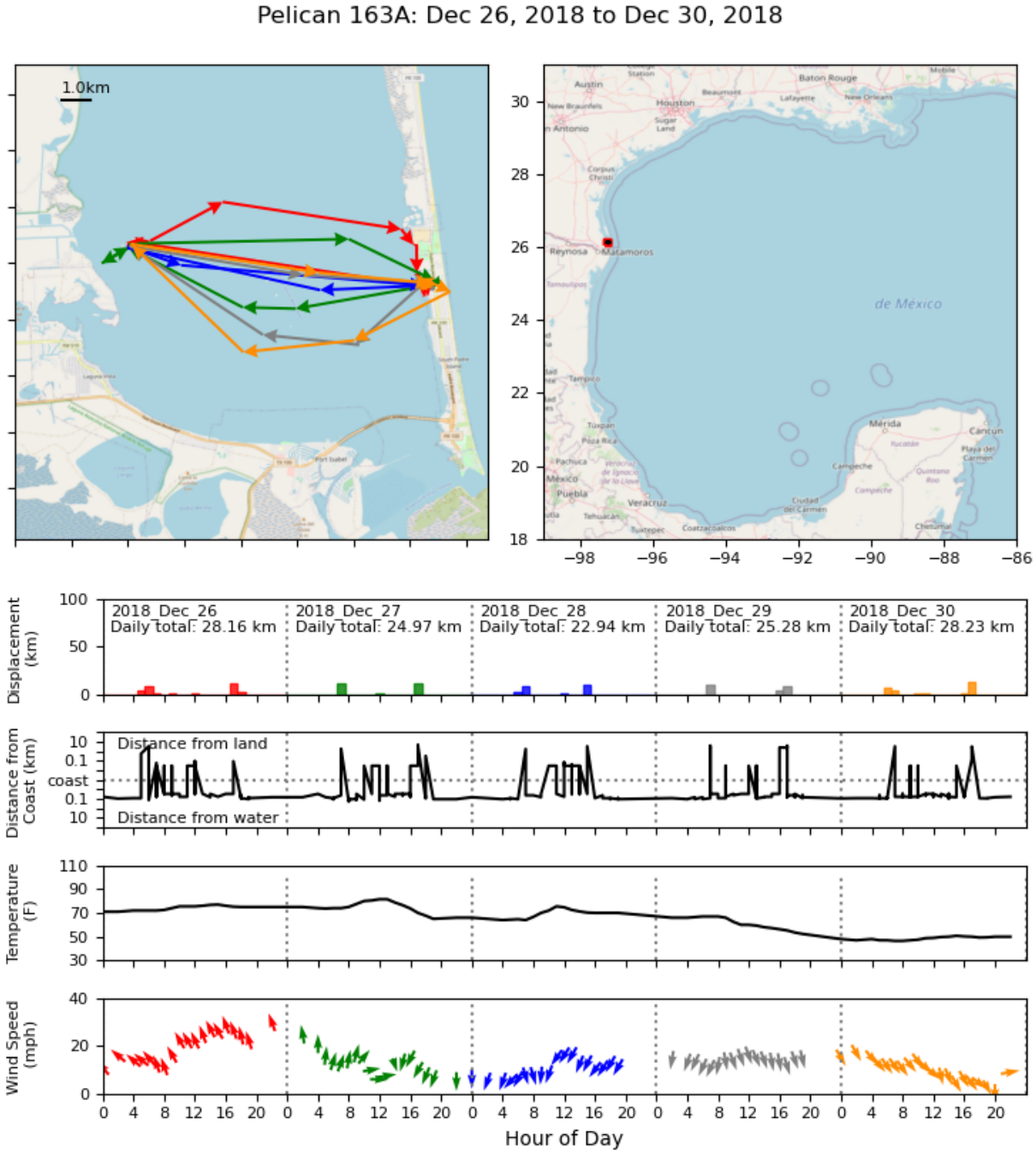

Figure 506 - Maps and graphs showing movements of 163A between 2018-12-26 and 2018-12-29 inclusive.

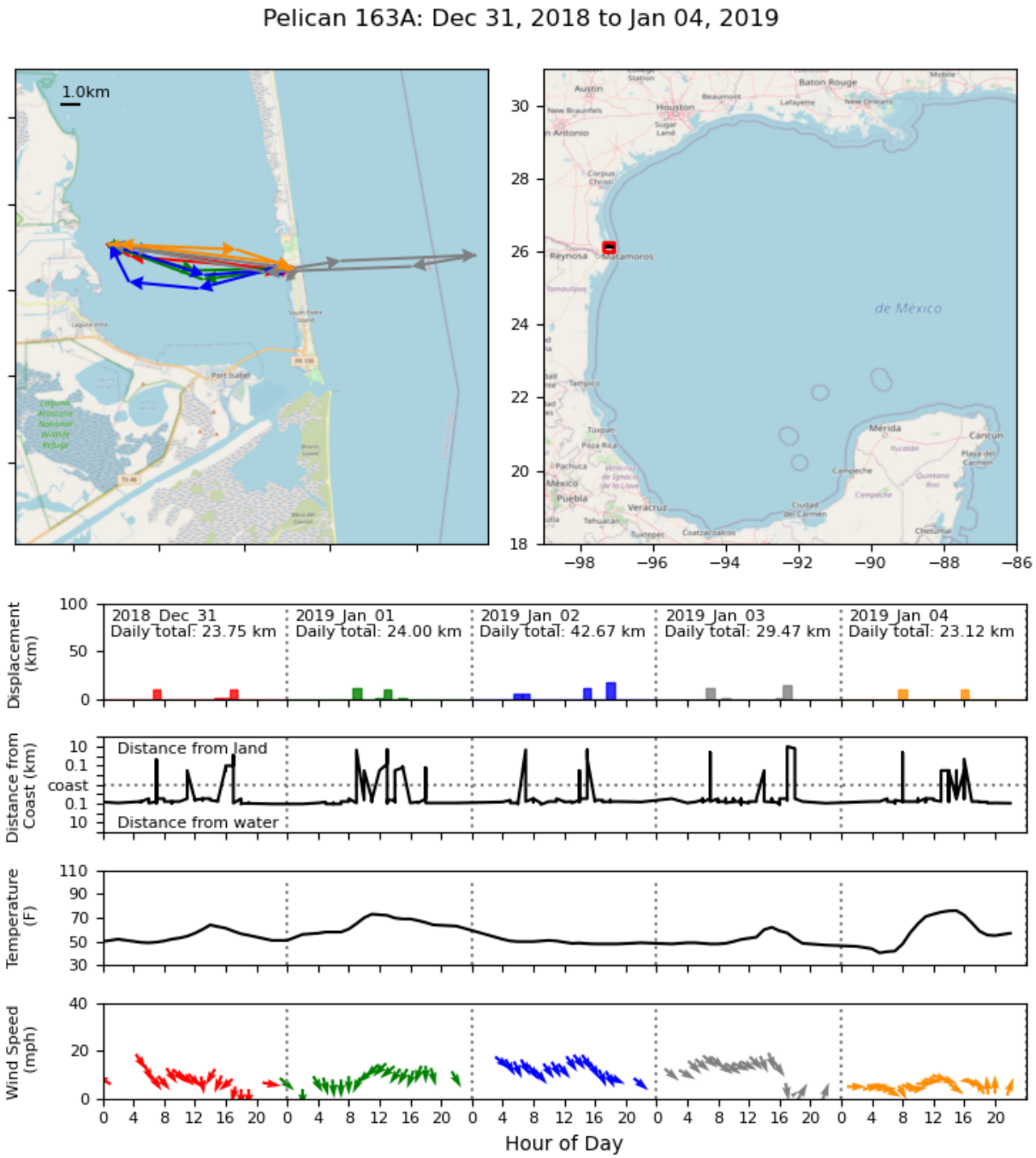

Figure 507 - Maps and graphs showing movements of 163A between 2018-12-31 and 2019-01-03 inclusive.

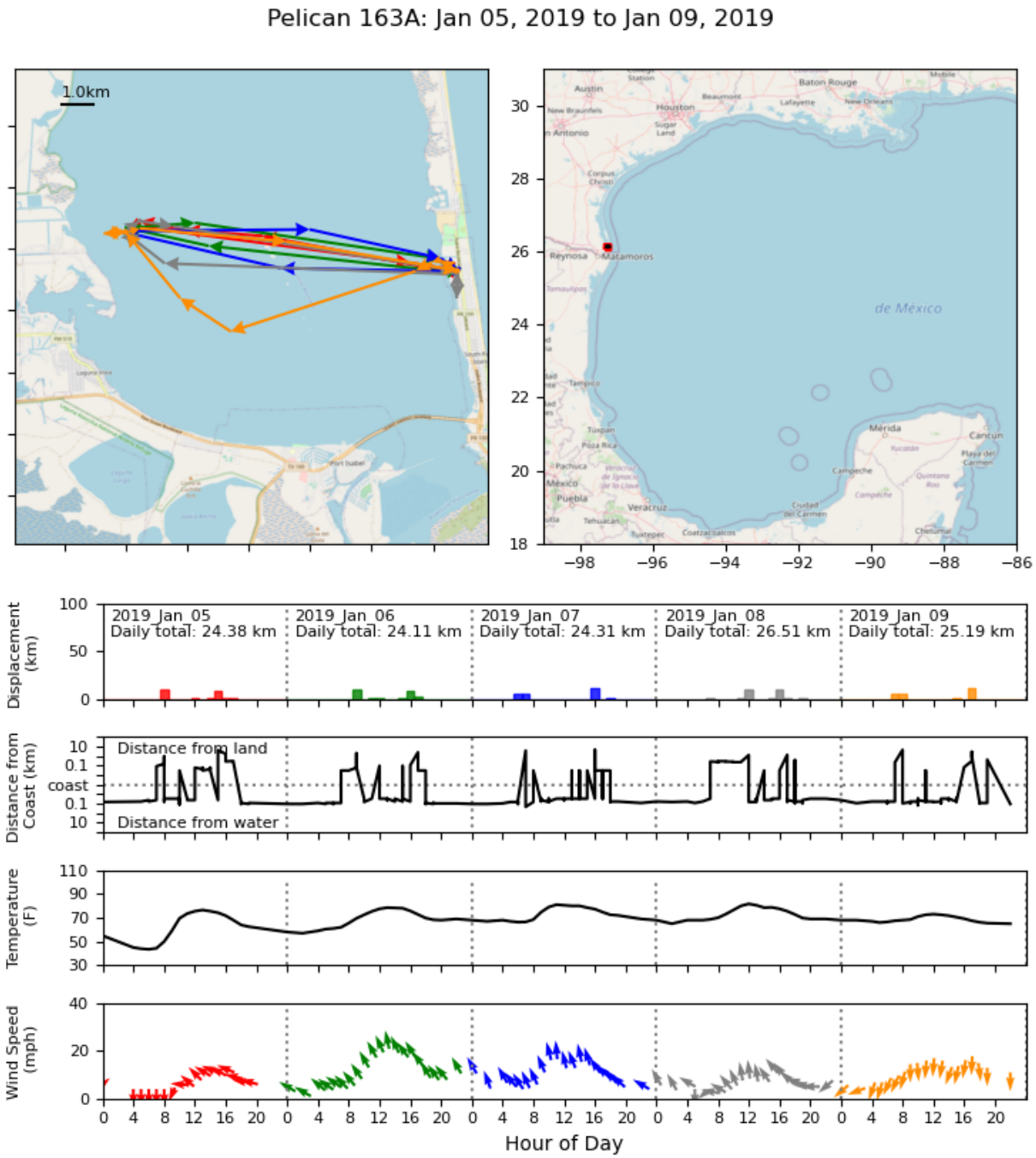

Figure 508 - Maps and graphs showing movements of 163A between 2019-01-05 and 2019-01-08 inclusive.

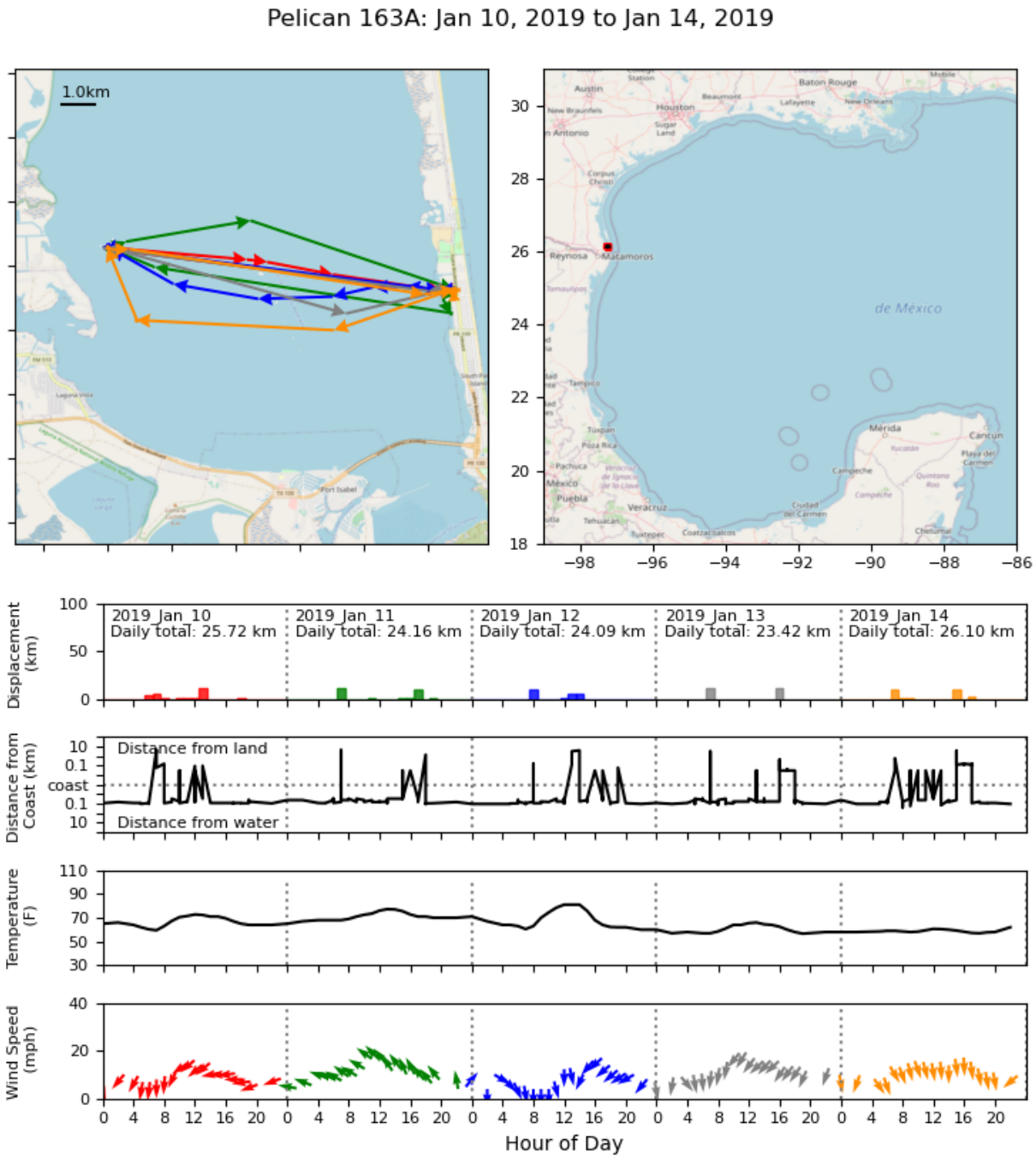

Figure 509 - Maps and graphs showing movements of 163A between 2019-01-10 and 2019-01-13 inclusive.

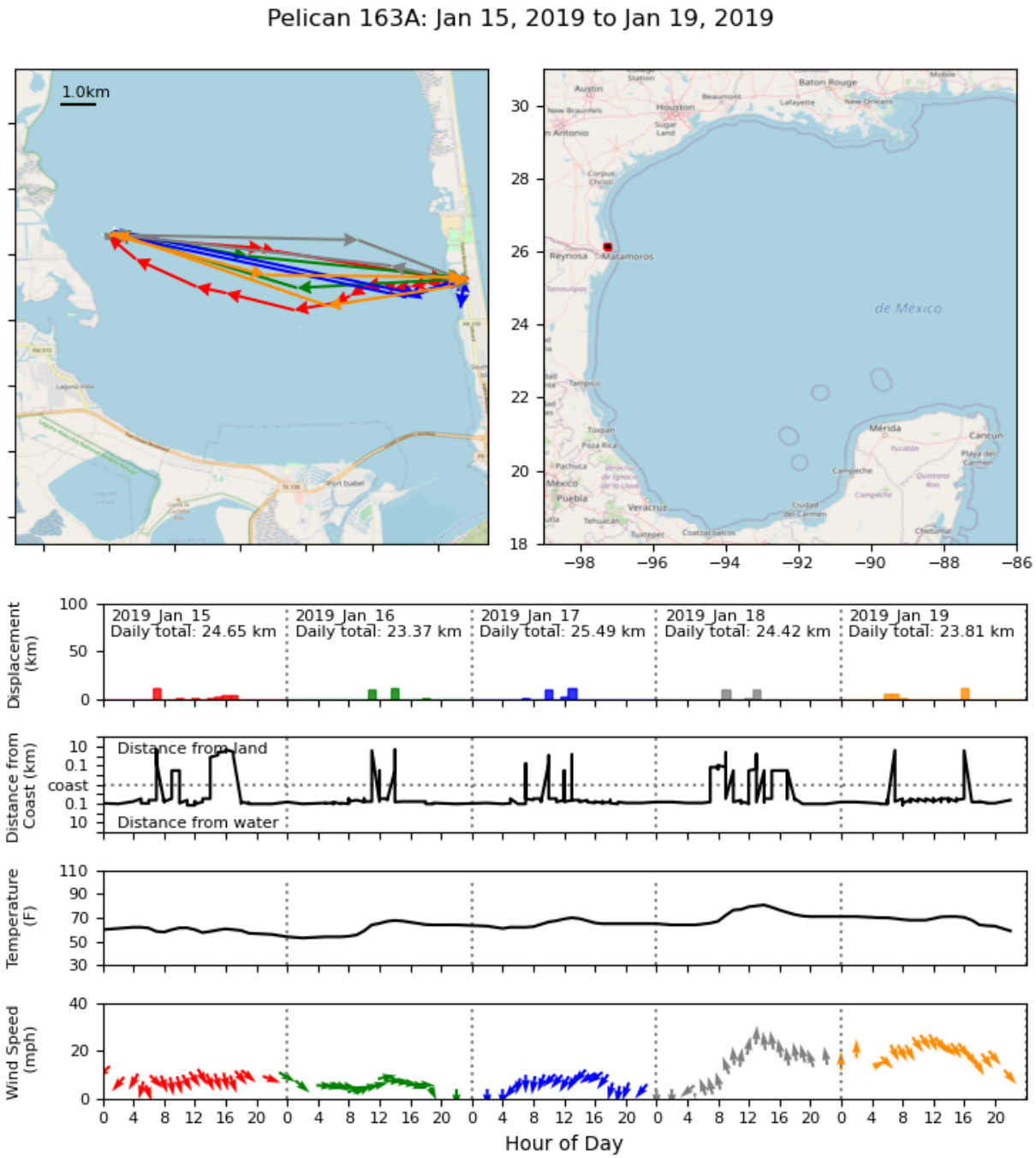

Figure 510 - Maps and graphs showing movements of 163A between 2019-01-15 and 2019-01-18 inclusive.

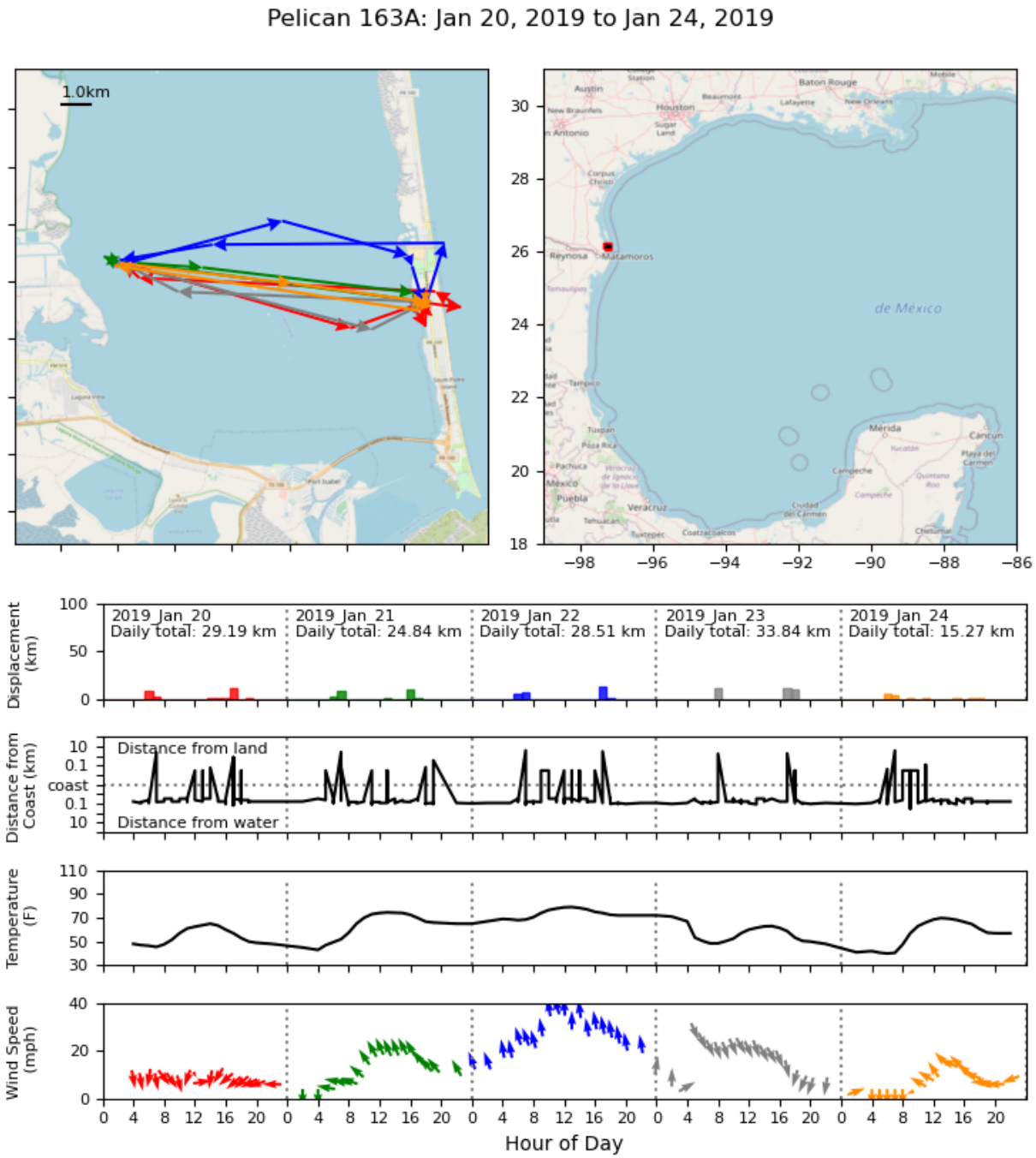

Figure 511 - Maps and graphs showing movements of 163A between 2019-01-20 and 2019-01-23 inclusive.

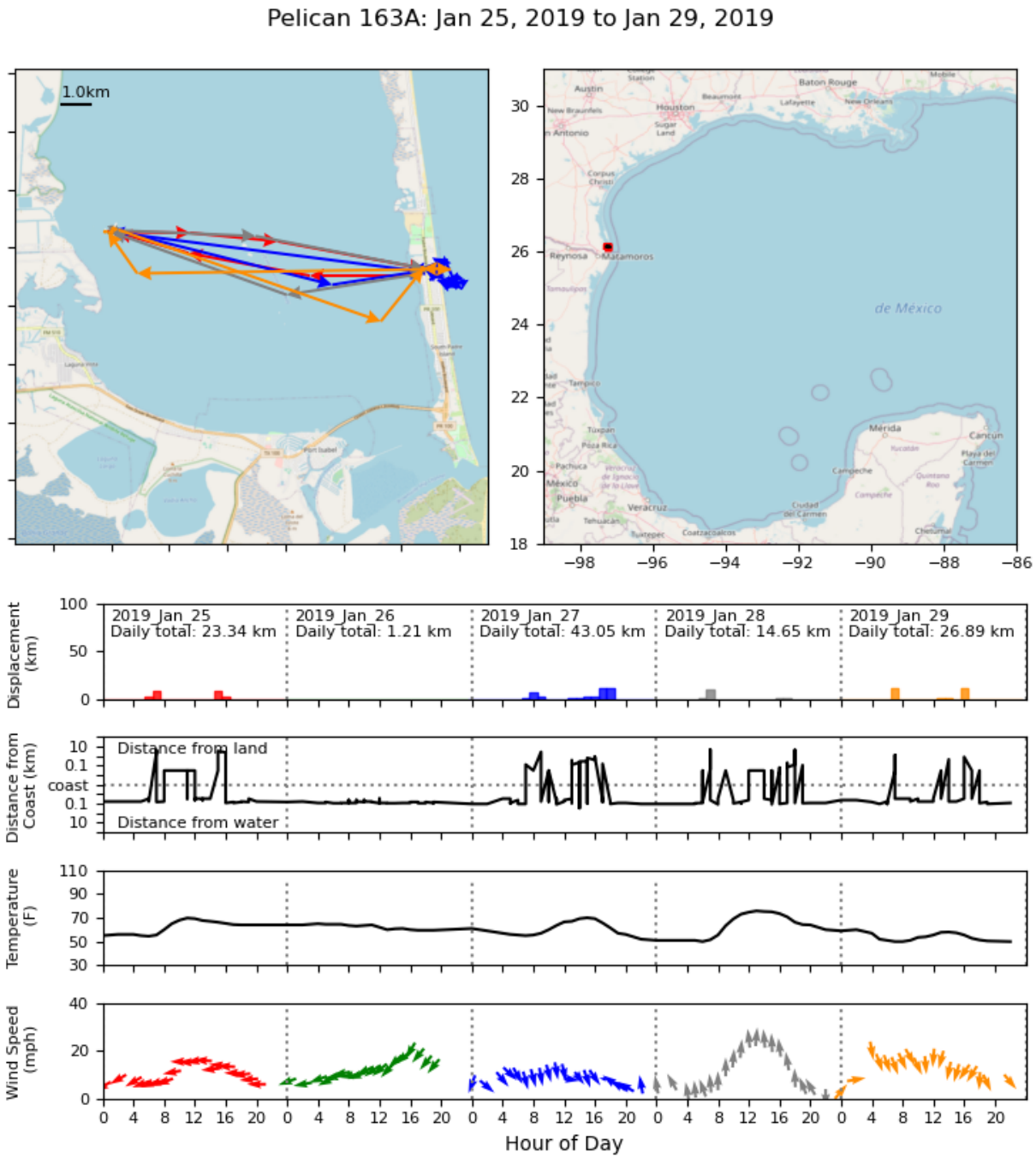

Figure 512 - Maps and graphs showing movements of 163A between 2019-01-25 and 2019-01-28 inclusive.

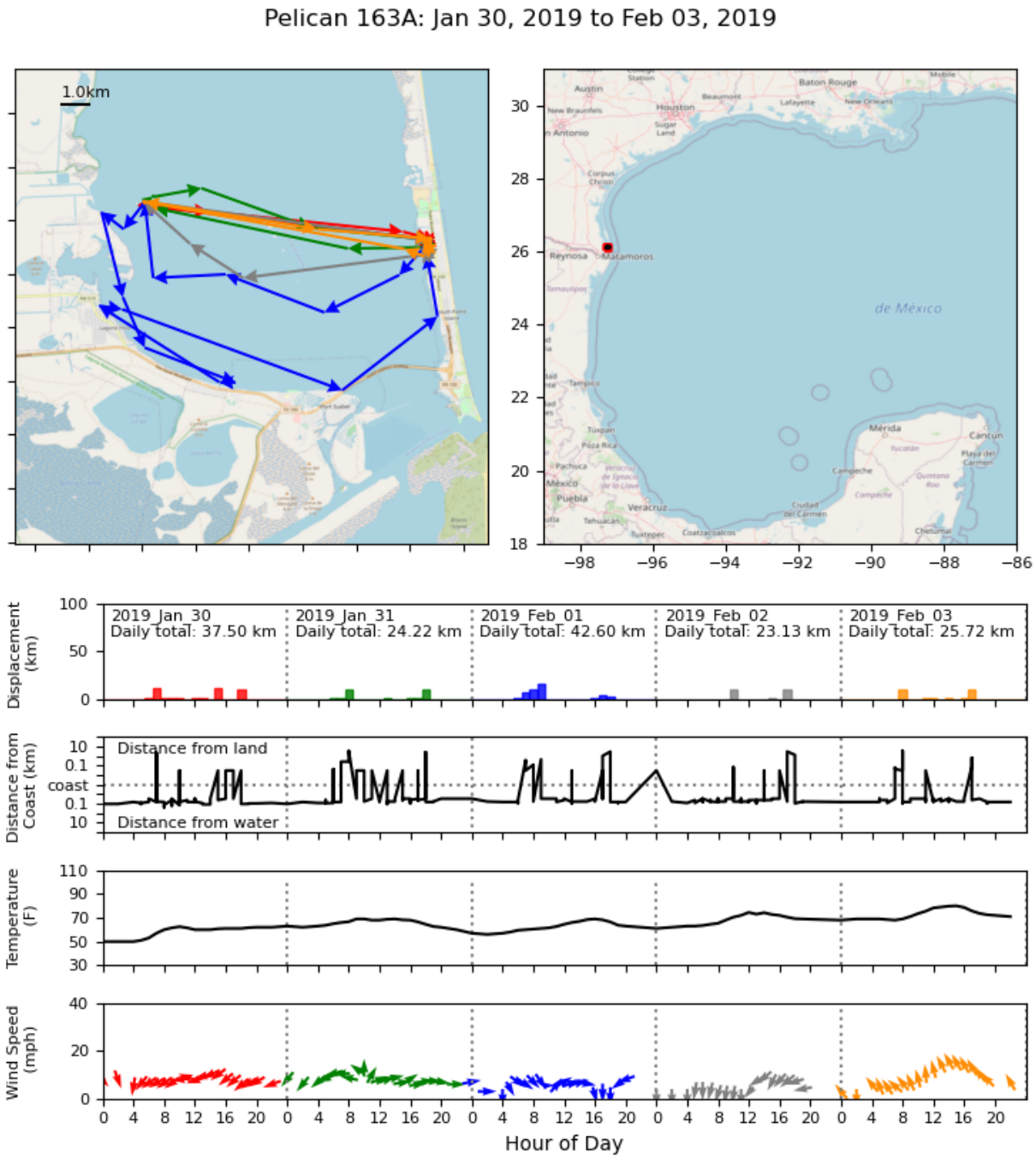

Figure 513 - Maps and graphs showing movements of 163A between 2019-01-30 and 2019-02-02 inclusive.

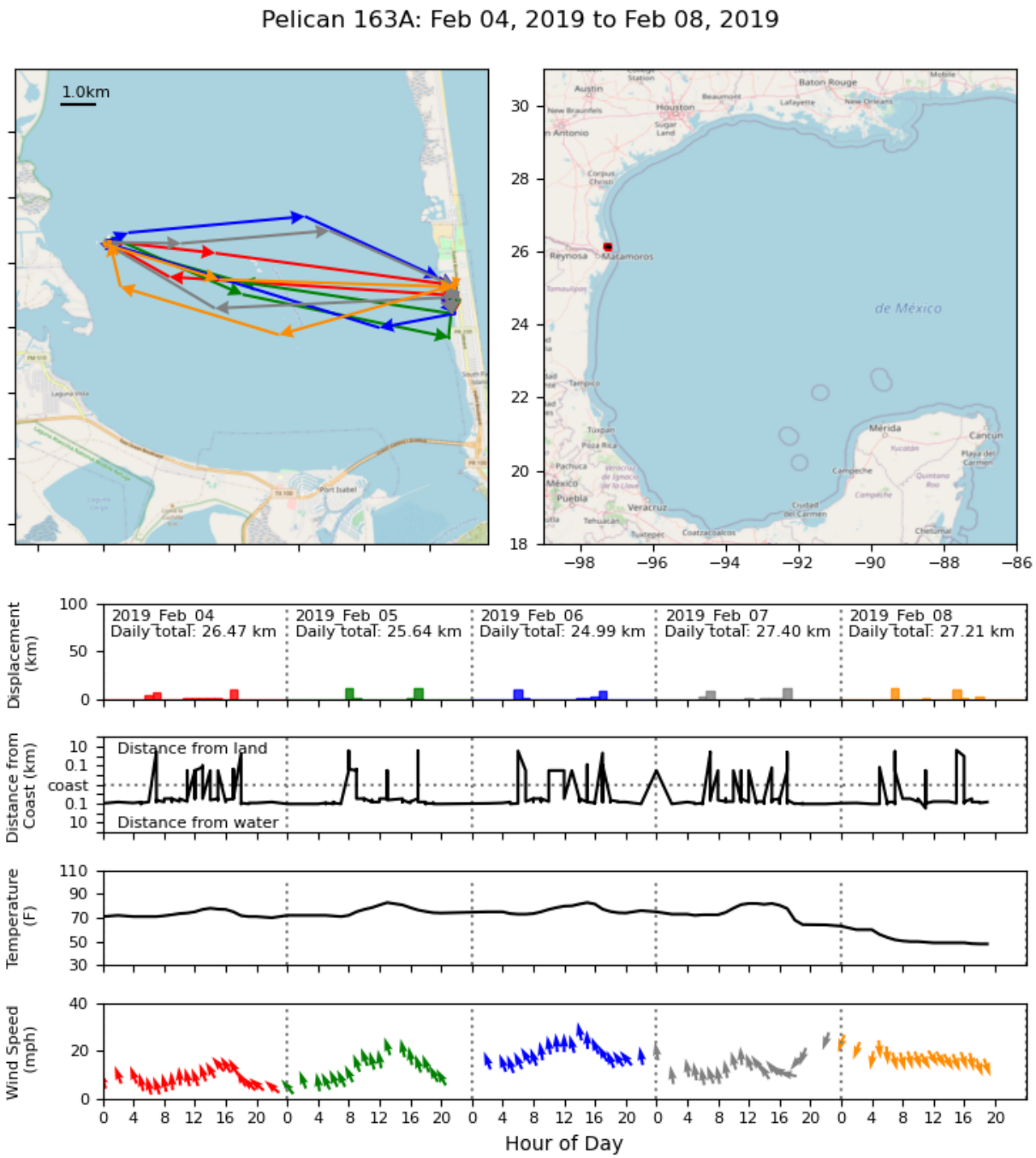

Figure 514 - Maps and graphs showing movements of 163A between 2019-02-04 and 2019-02-07 inclusive.

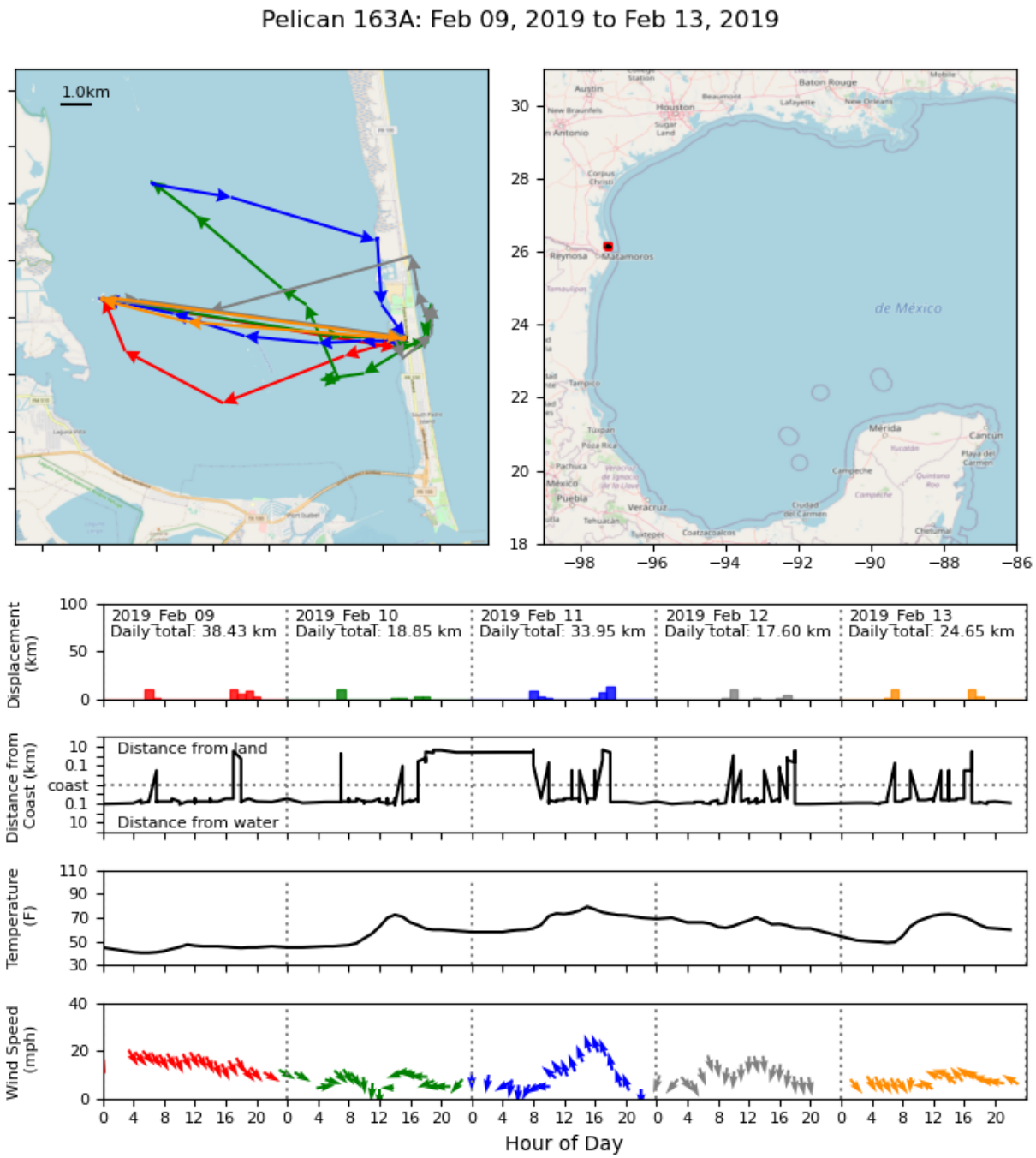

Figure 515 - Maps and graphs showing movements of 163A between 2019-02-09 and 2019-02-12 inclusive.

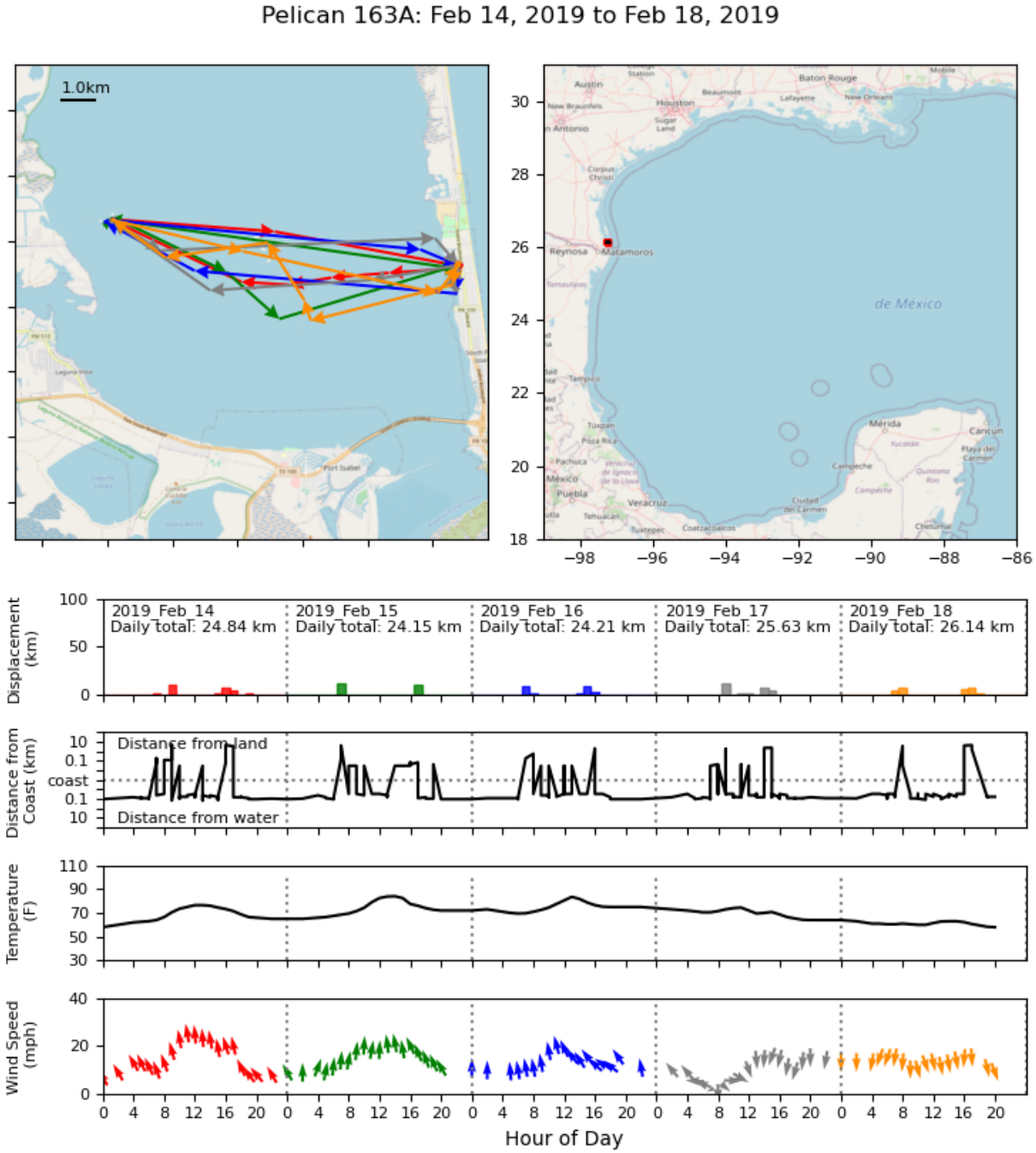

Figure 516 - Maps and graphs showing movements of 163A between 2019-02-14 and 2019-02-17 inclusive.

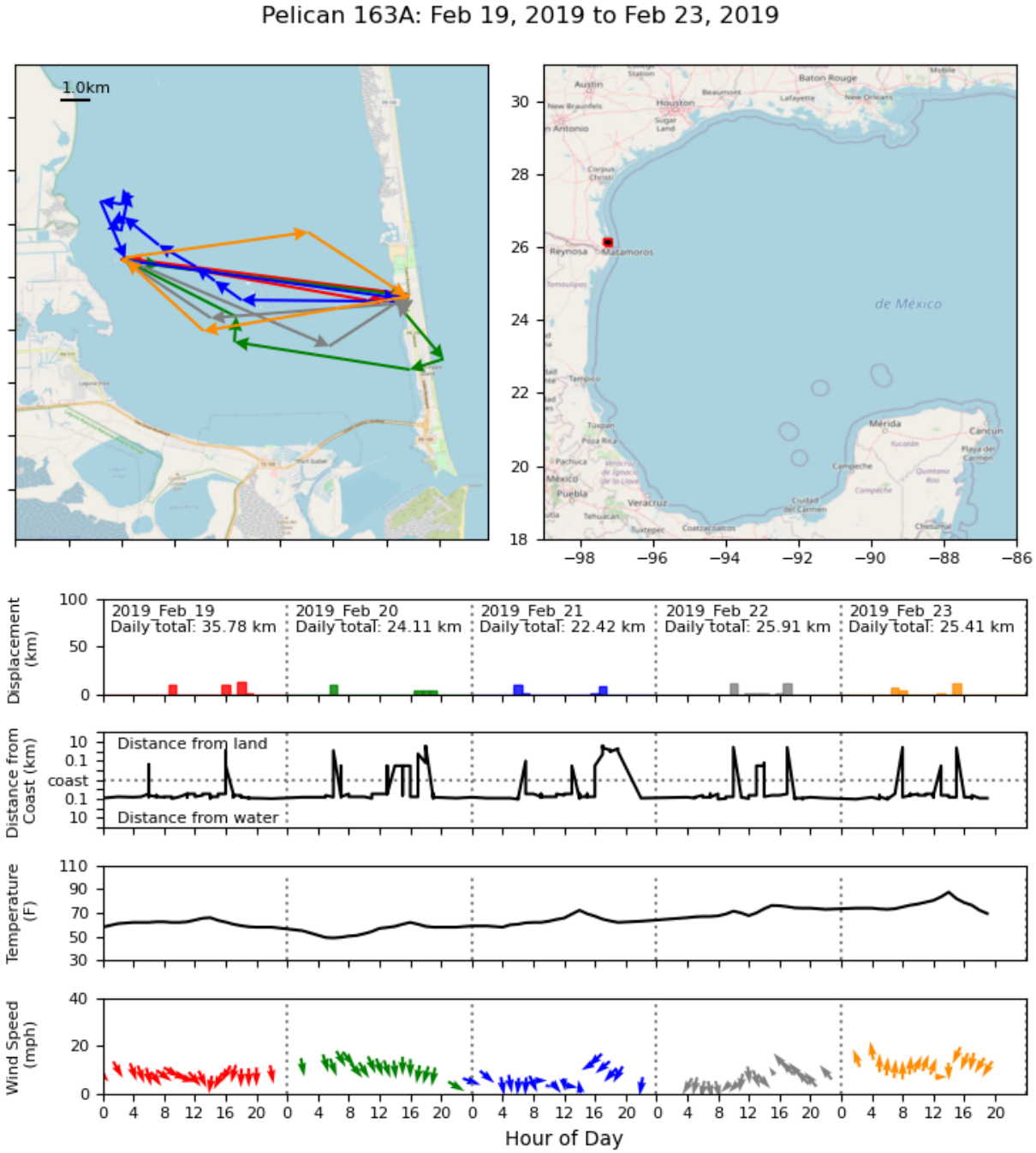

Figure 517 - Maps and graphs showing movements of 163A between 2019-02-19 and 2019-02-22 inclusive.

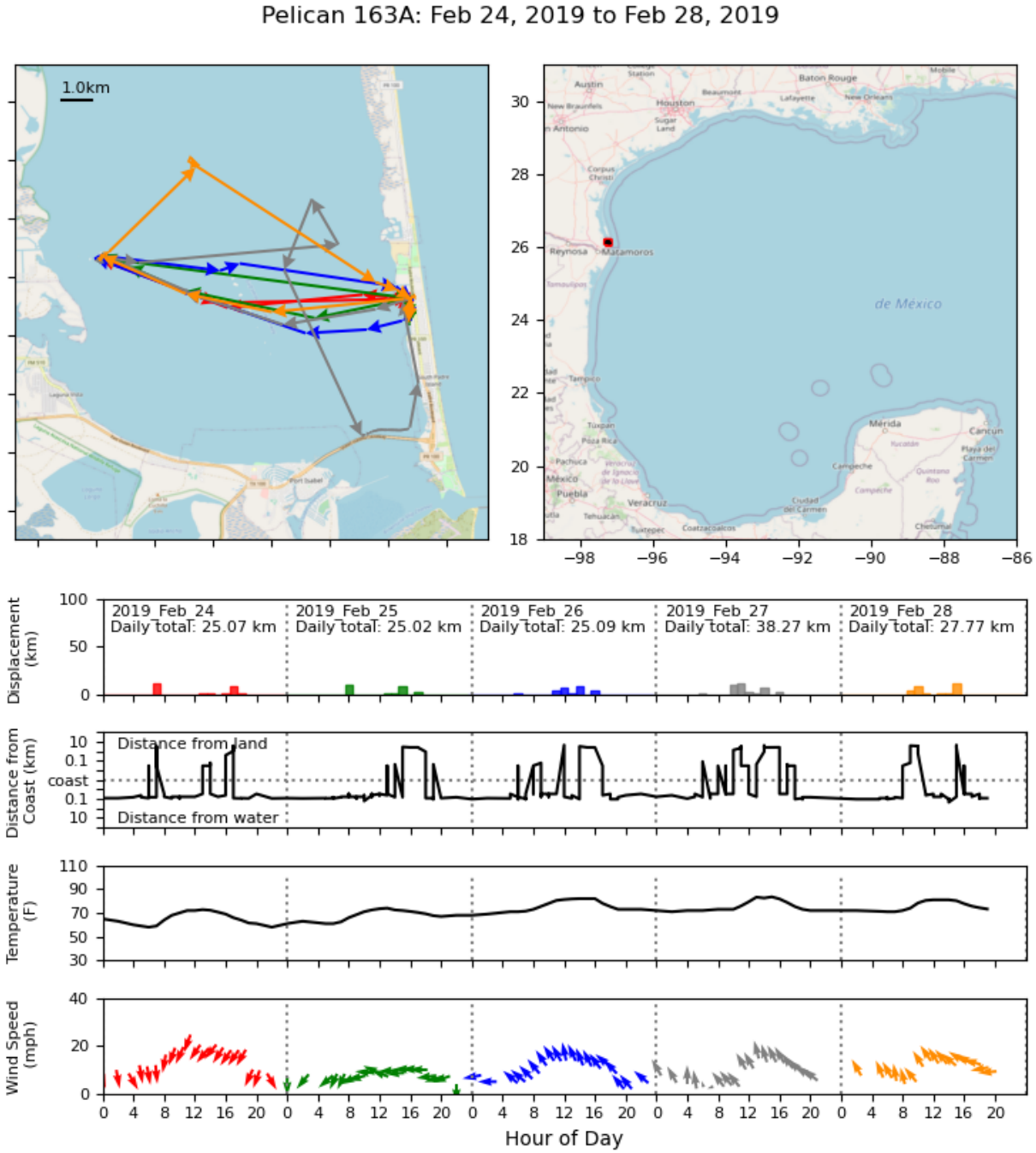

Figure 518 - Maps and graphs showing movements of 163A between 2019-02-24 and 2019-02-27 inclusive.

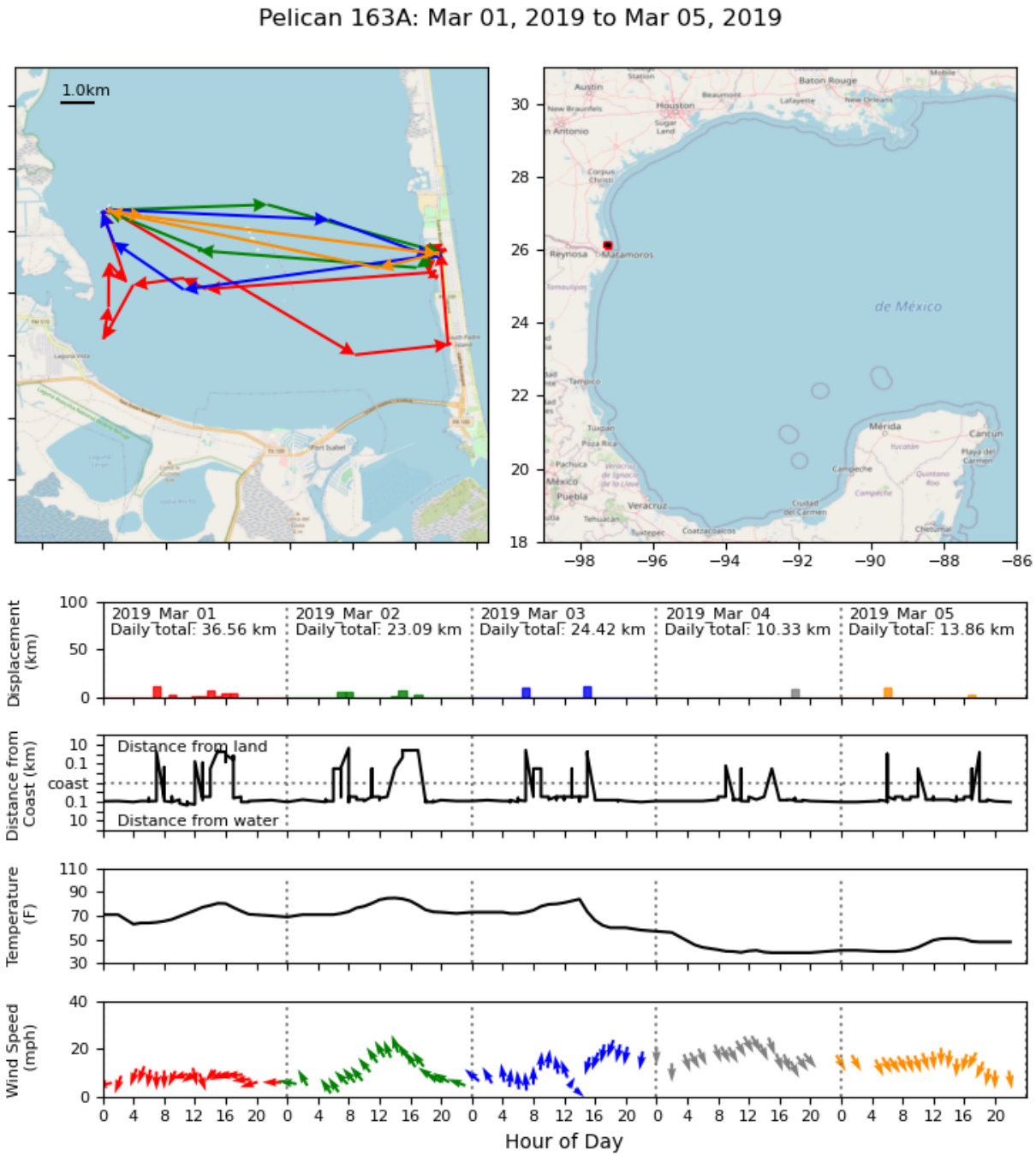

Figure 519 - Maps and graphs showing movements of 163A between 2019-03-01 and 2019-03-04 inclusive.

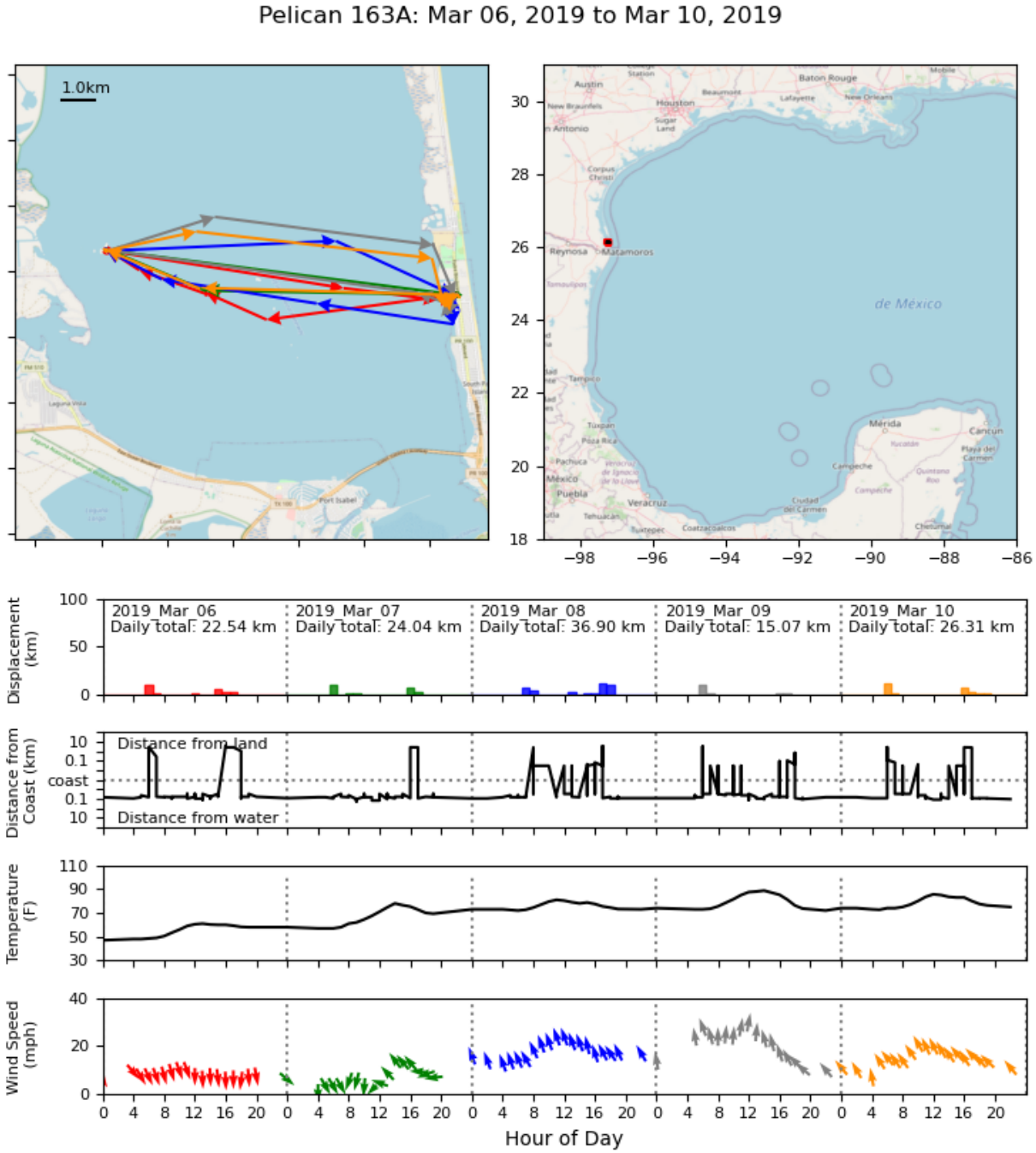

Figure 520 - Maps and graphs showing movements of 163A between 2019-03-06 and 2019-03-09 inclusive.

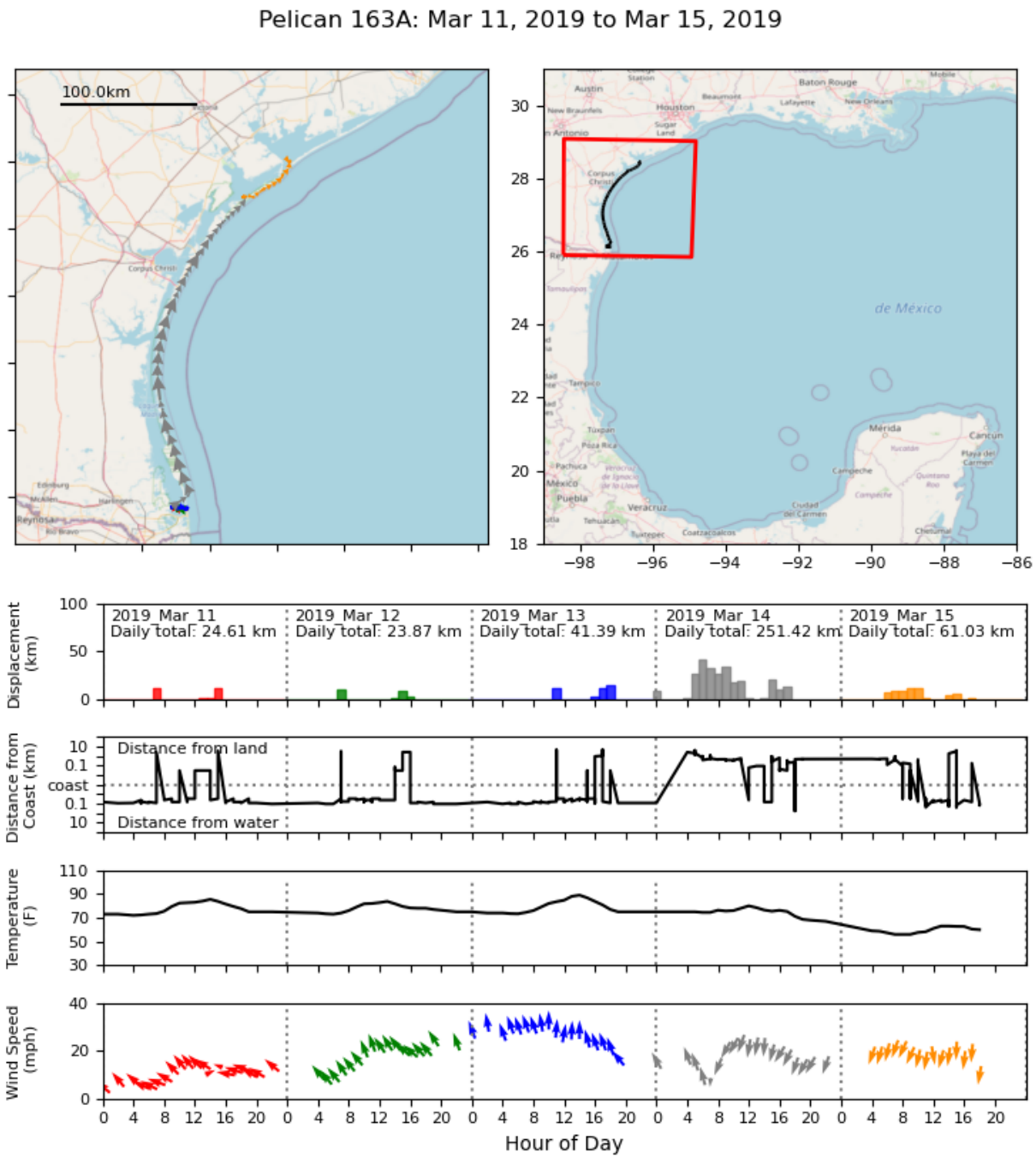

Figure 521 - Maps and graphs showing movements of 163A between 2019-03-11 and 2019-03-14 inclusive.

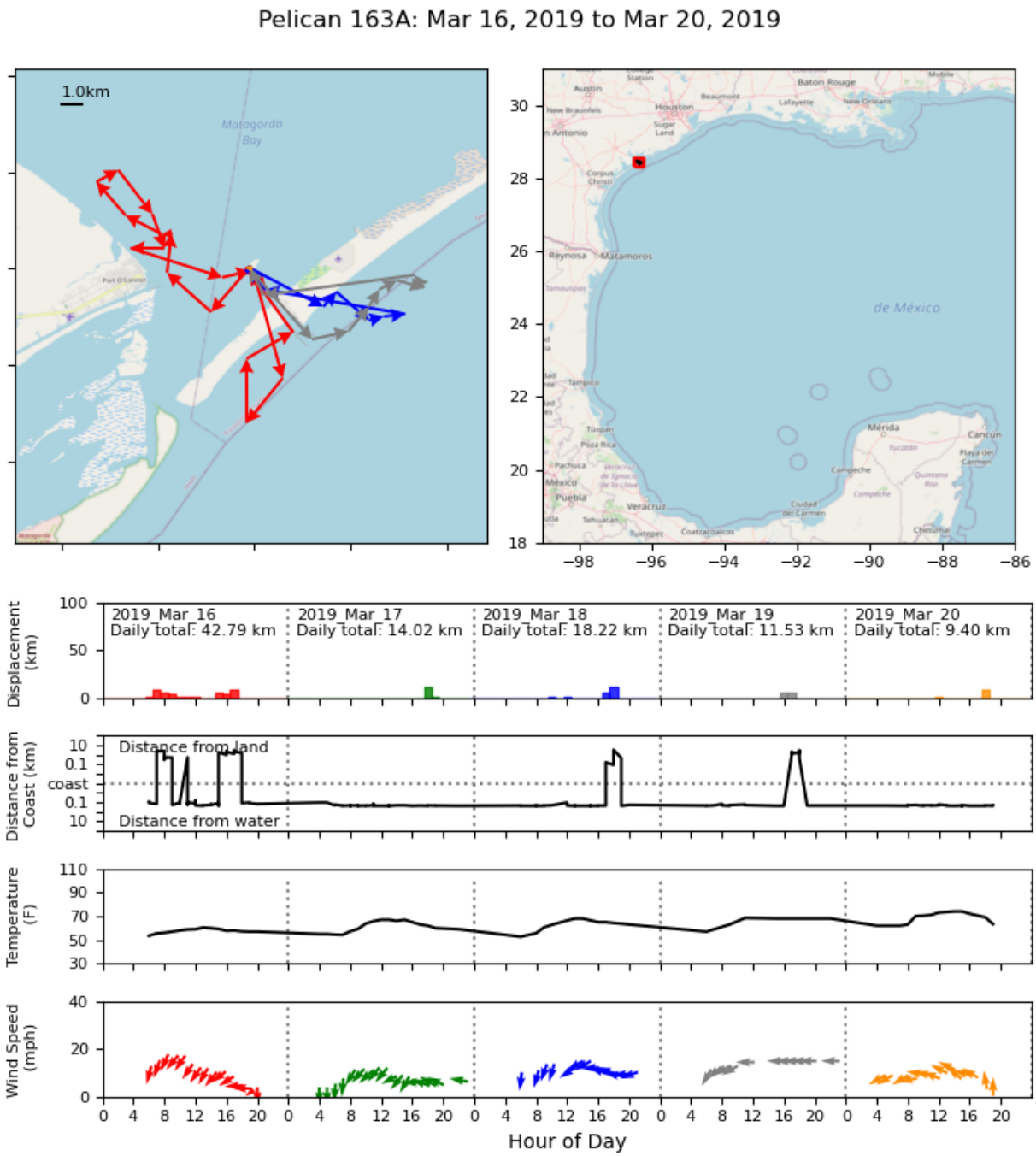

Figure 522 - Maps and graphs showing movements of 163A between 2019-03-16 and 2019-03-19 inclusive.

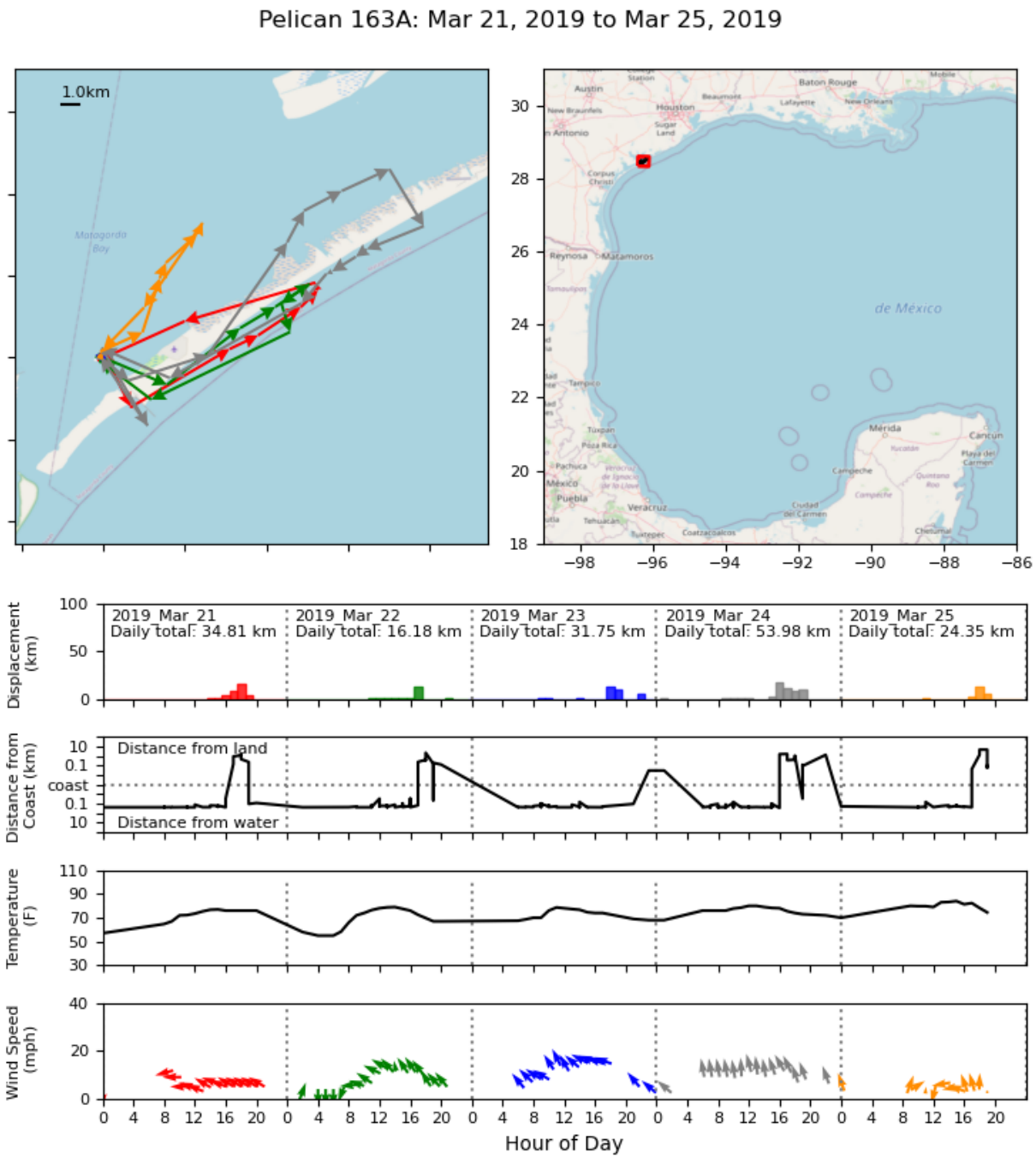

Figure 523 - Maps and graphs showing movements of 163A between 2019-03-21 and 2019-03-24 inclusive.

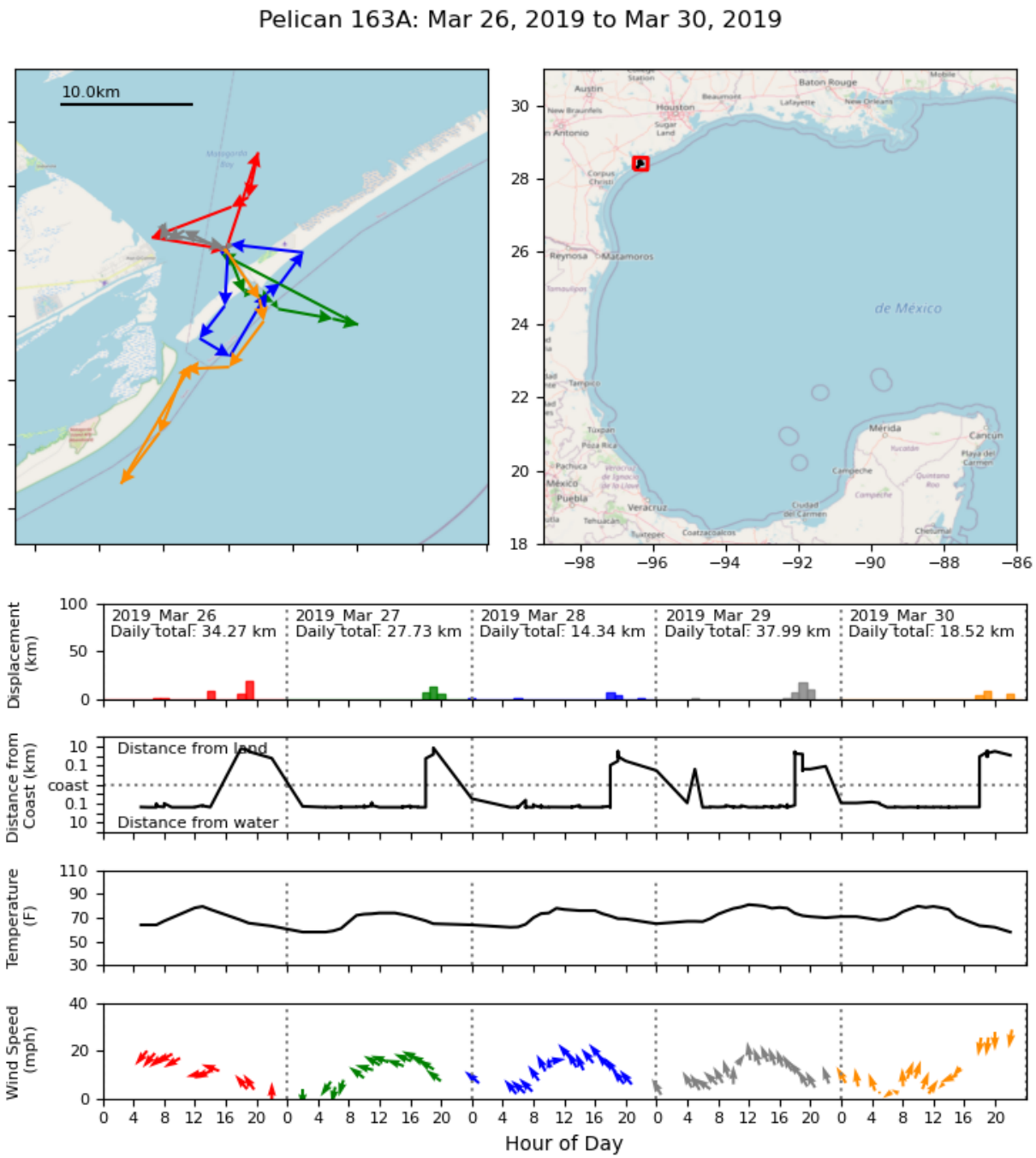

Figure 524 - Maps and graphs showing movements of 163A between 2019-03-26 and 2019-03-29 inclusive.

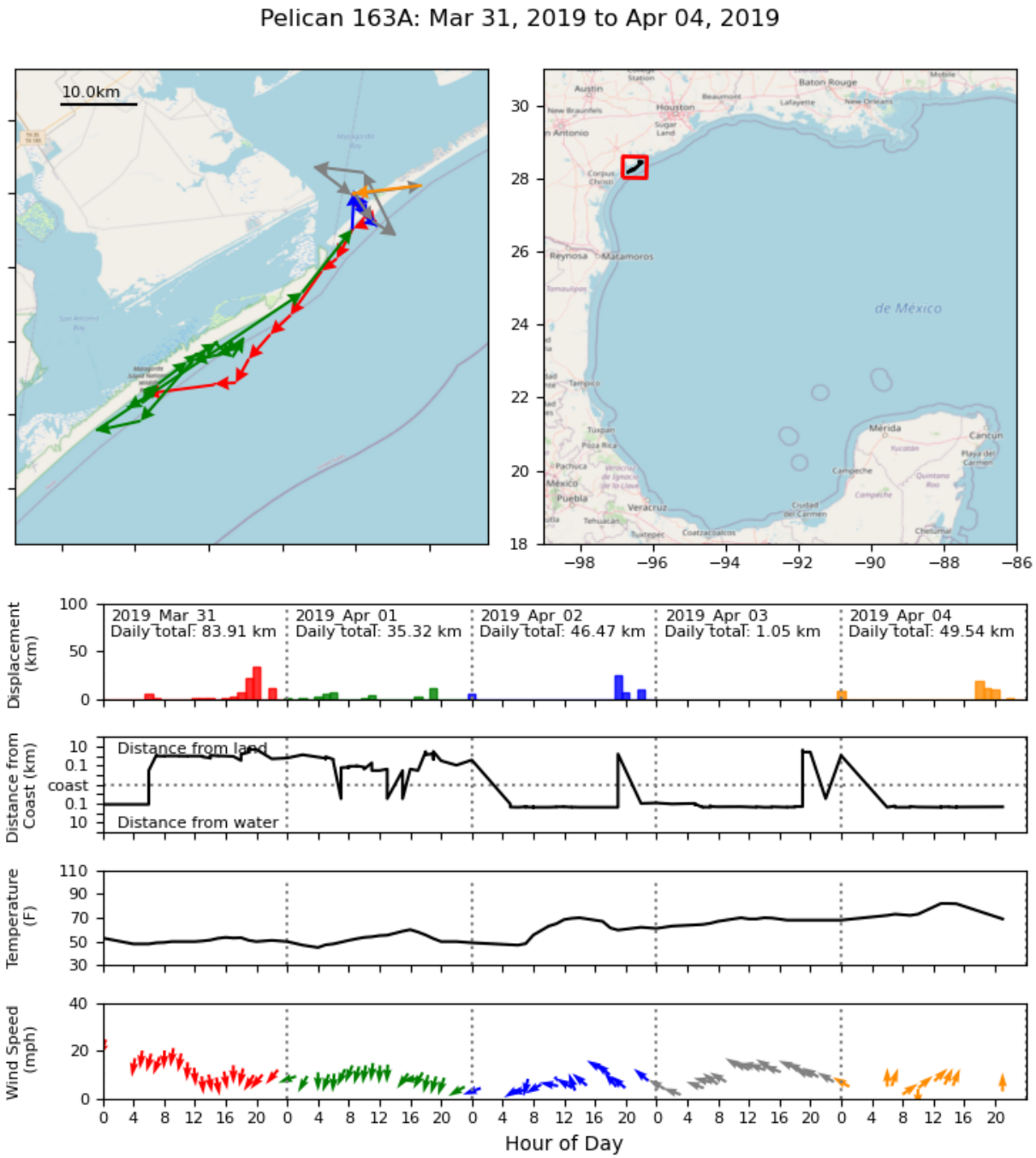

Figure 525 - Maps and graphs showing movements of 163A between 2019-03-31 and 2019-04-03 inclusive.

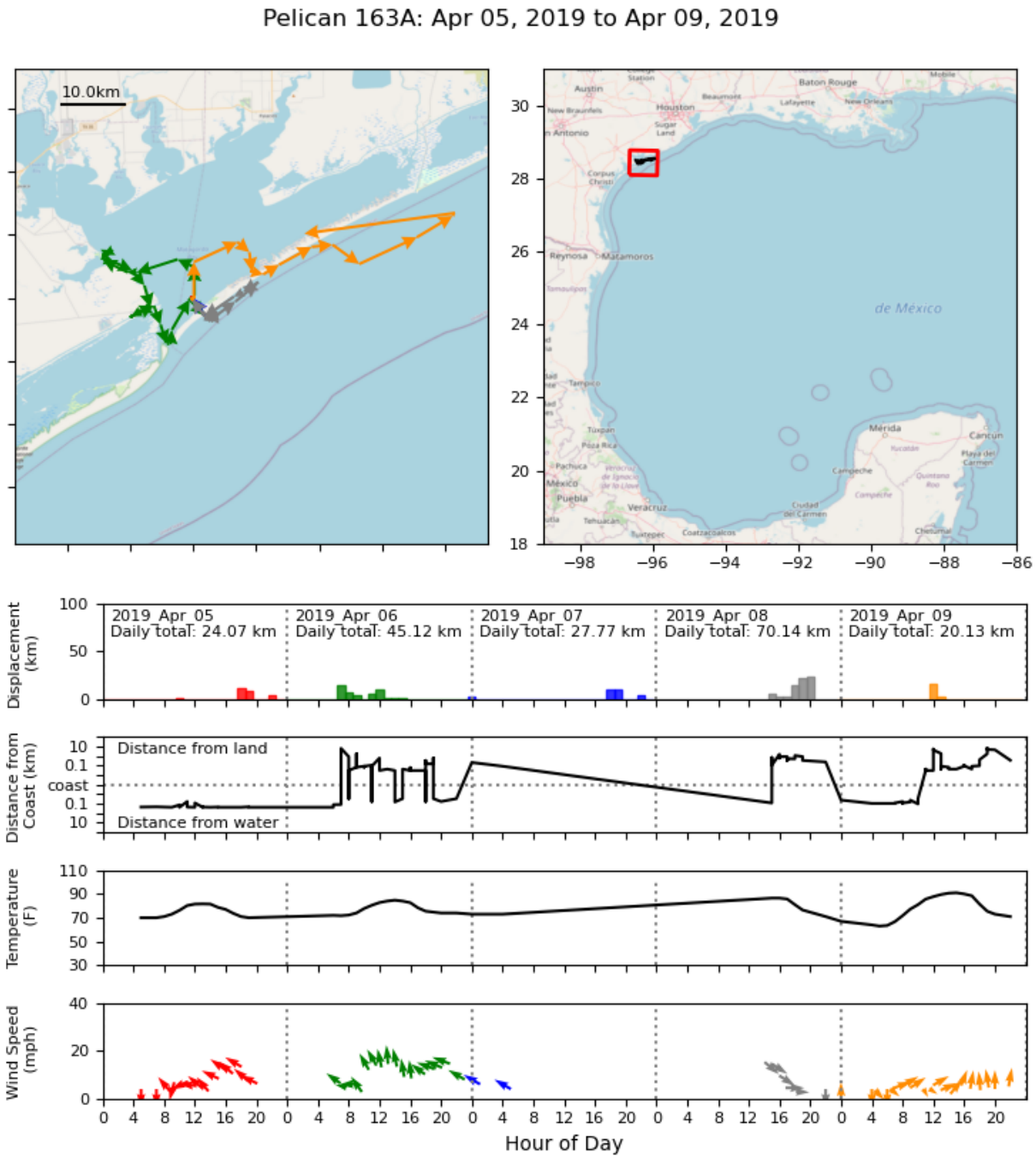

Figure 526 - Maps and graphs showing movements of 163A between 2019-04-05 and 2019-04-08 inclusive.

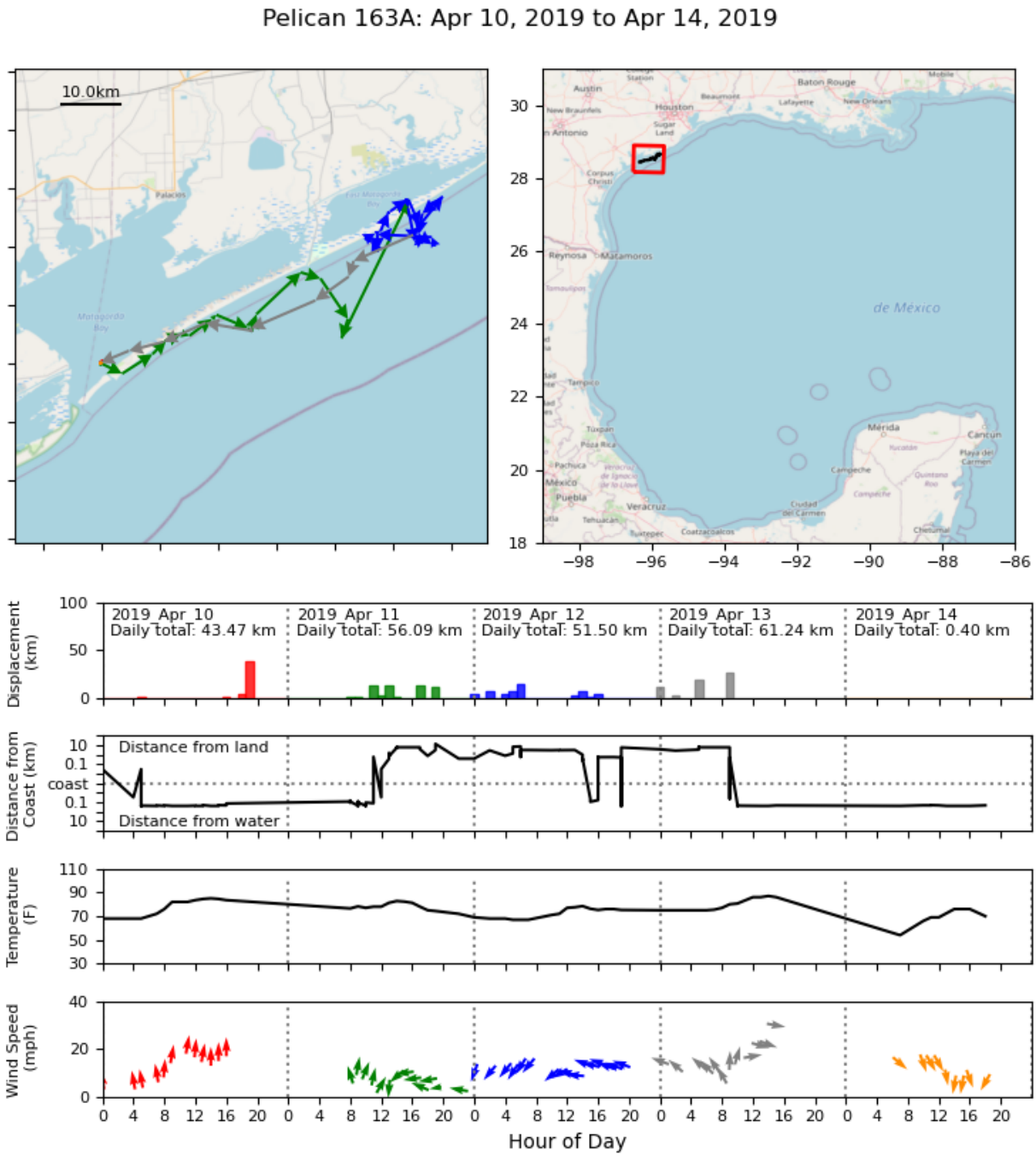

Figure 527 - Maps and graphs showing movements of 163A between 2019-04-10 and 2019-04-13 inclusive.

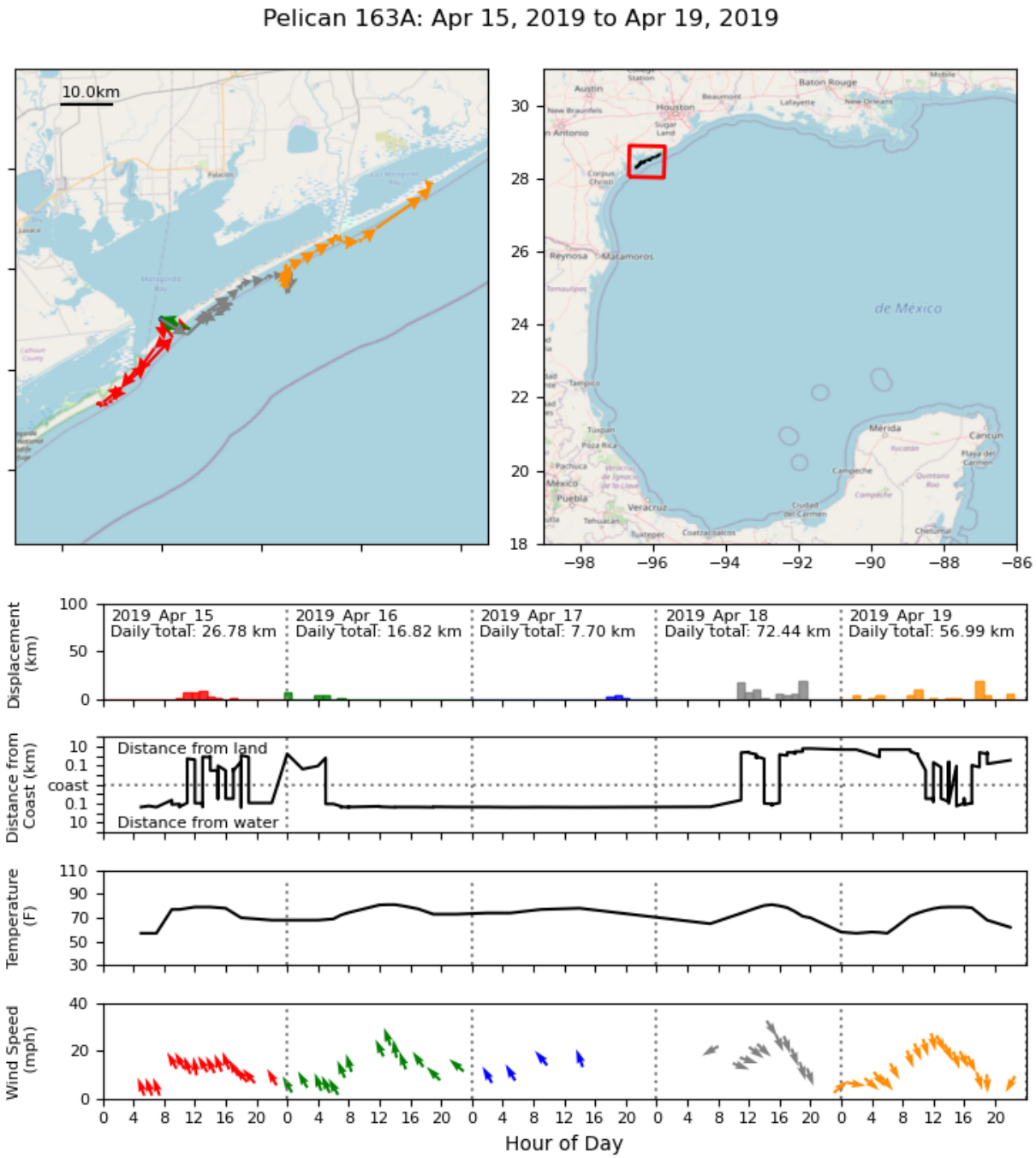

Figure 528 - Maps and graphs showing movements of 163A between 2019-04-15 and 2019-04-18 inclusive.

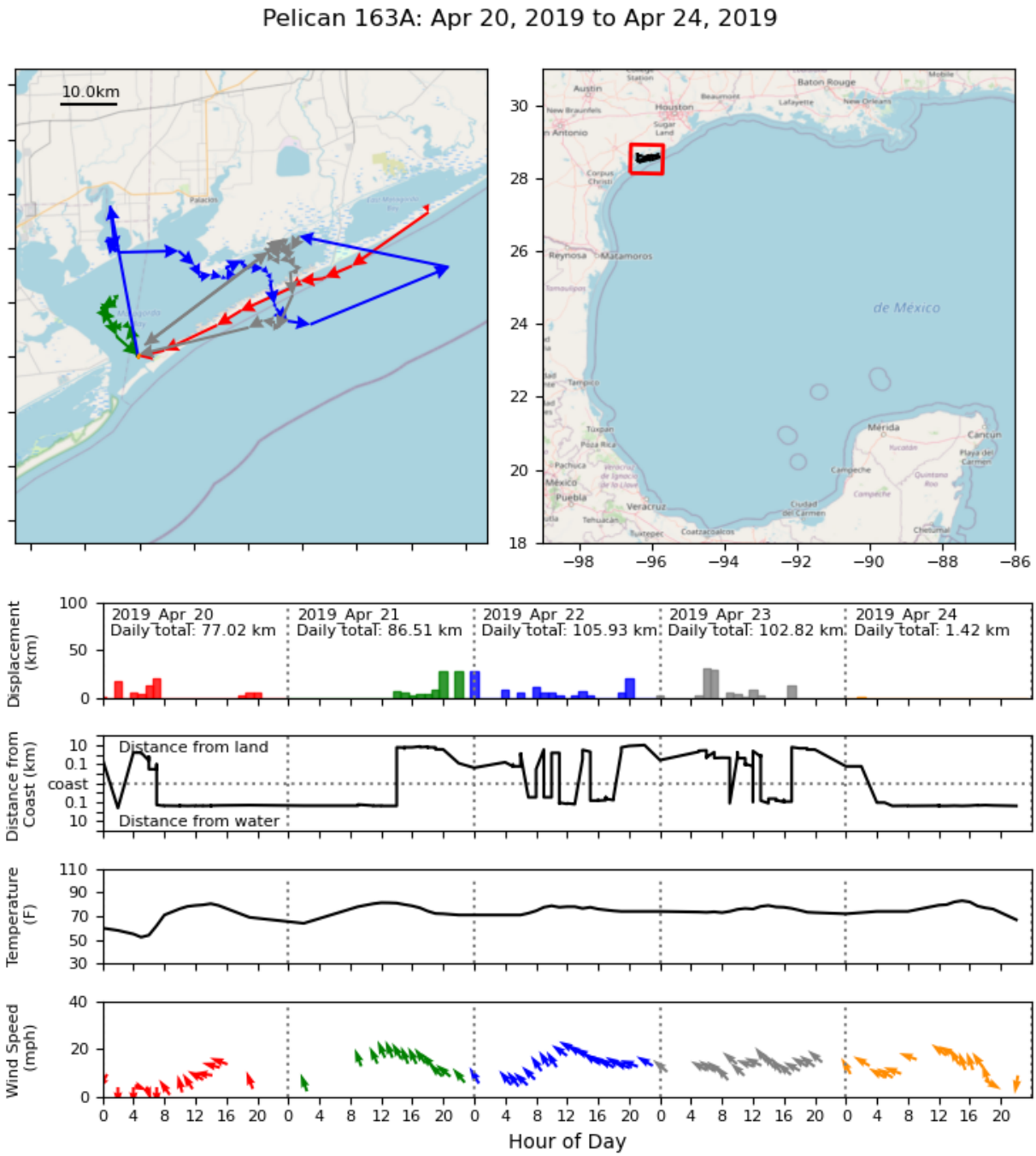

Figure 529 - Maps and graphs showing movements of 163A between 2019-04-20 and 2019-04-23 inclusive.

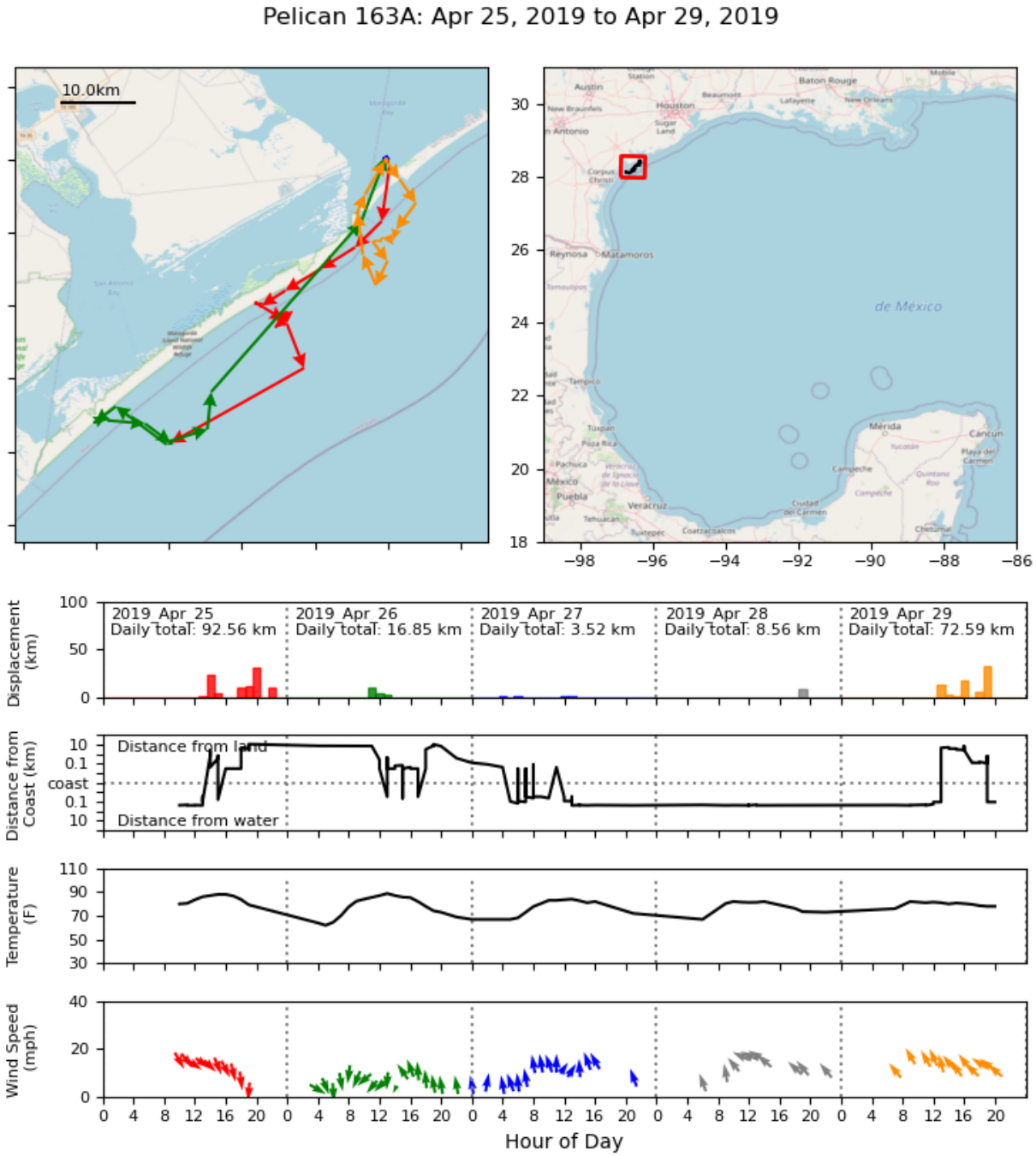

Figure 530 - Maps and graphs showing movements of 163A between 2019-04-25 and 2019-04-28 inclusive.

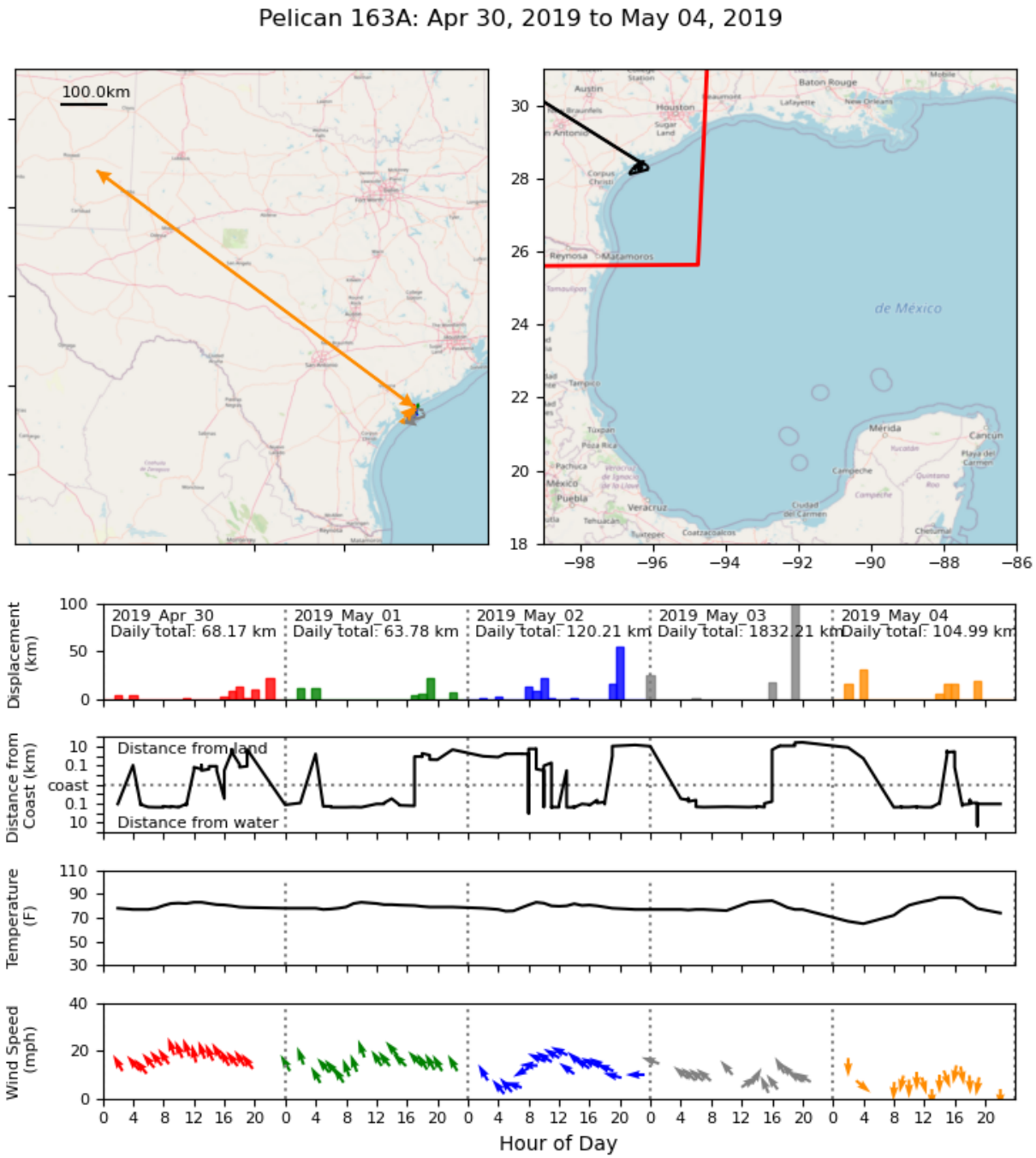

Figure 531 - Maps and graphs showing movements of 163A between 2019-04-30 and 2019-05-03 inclusive.

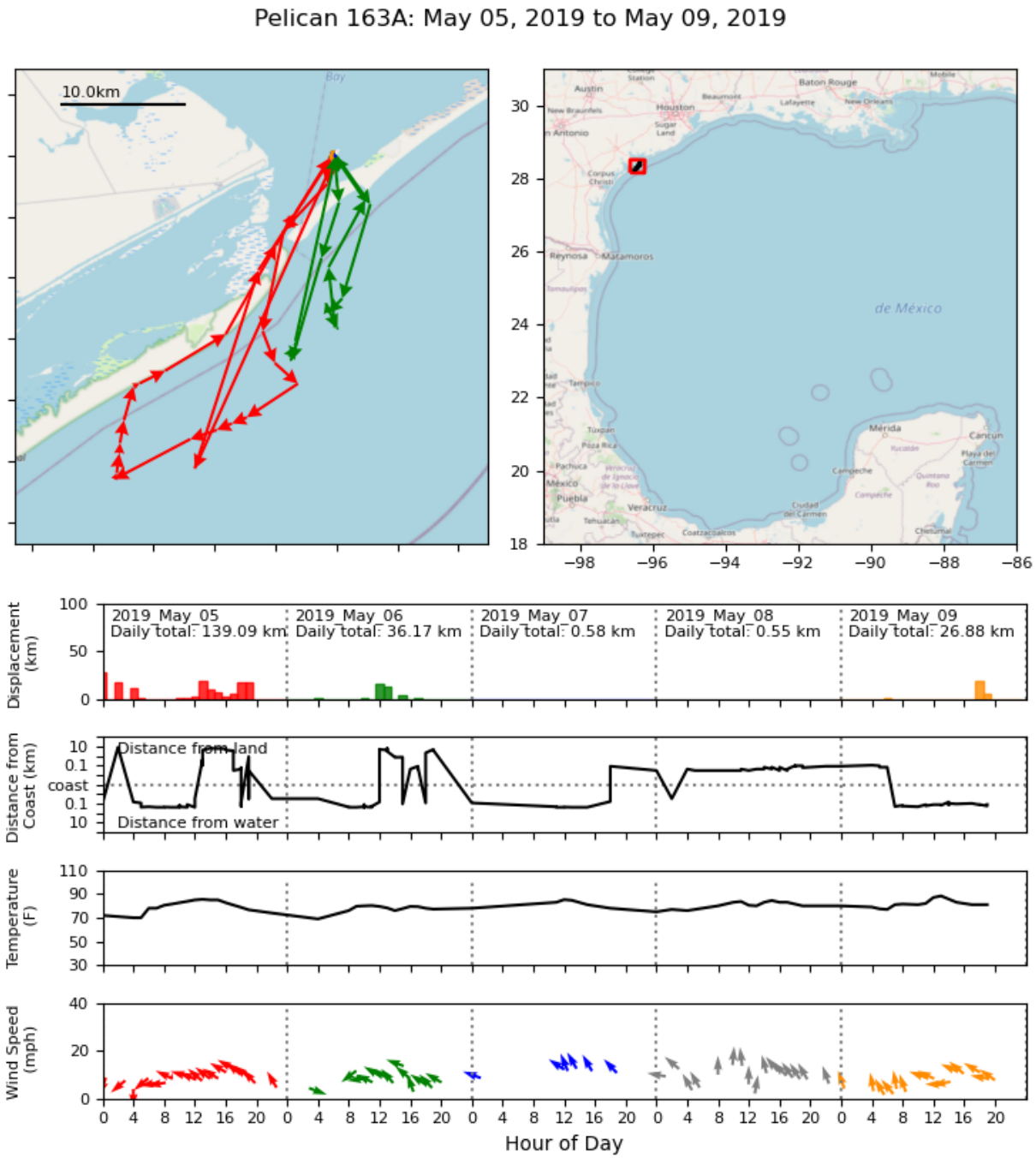

Figure 532 - Maps and graphs showing movements of 163A between 2019-05-05 and 2019-05-08 inclusive.

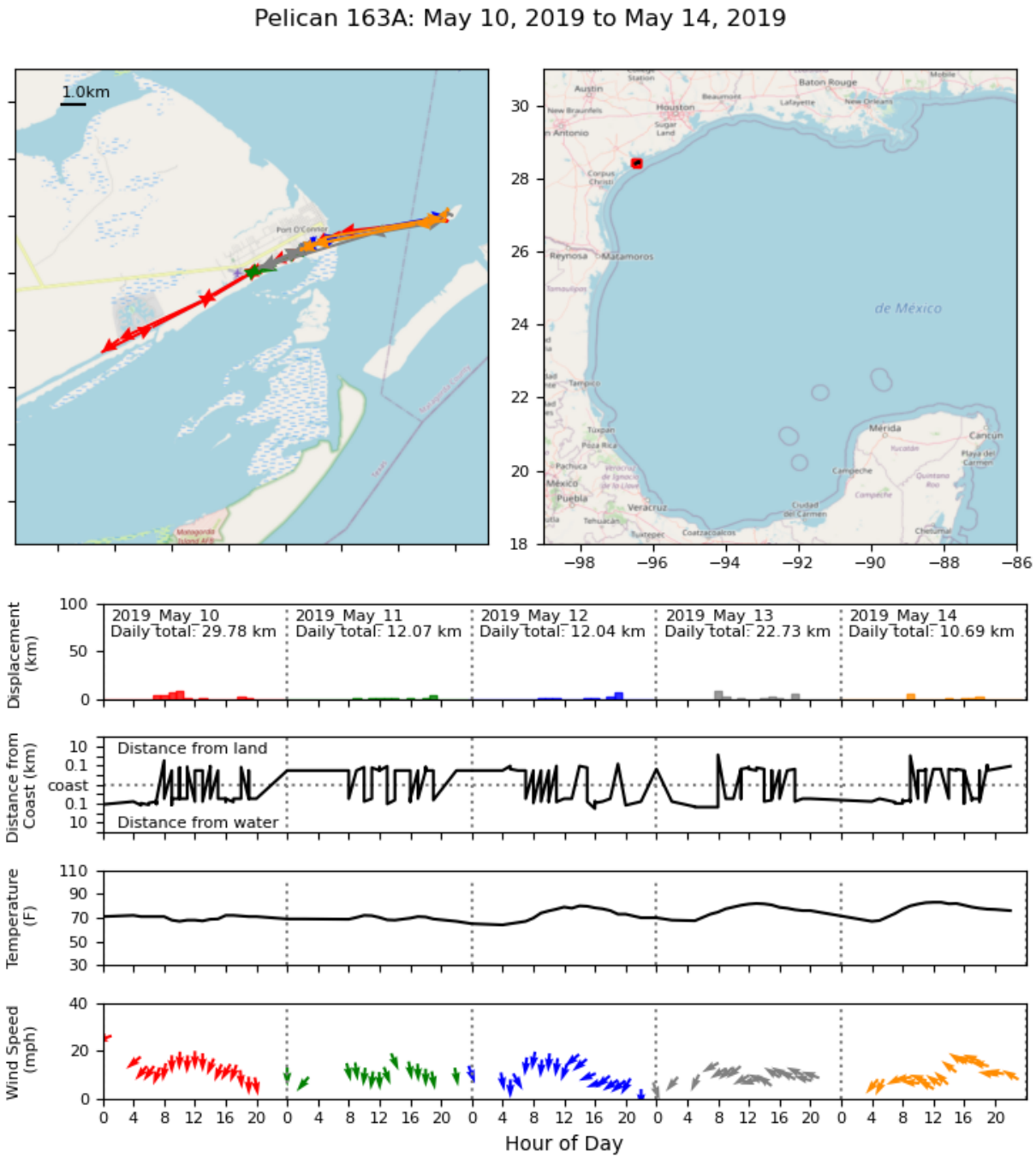

Figure 533 - Maps and graphs showing movements of 163A between 2019-05-10 and 2019-05-13 inclusive.

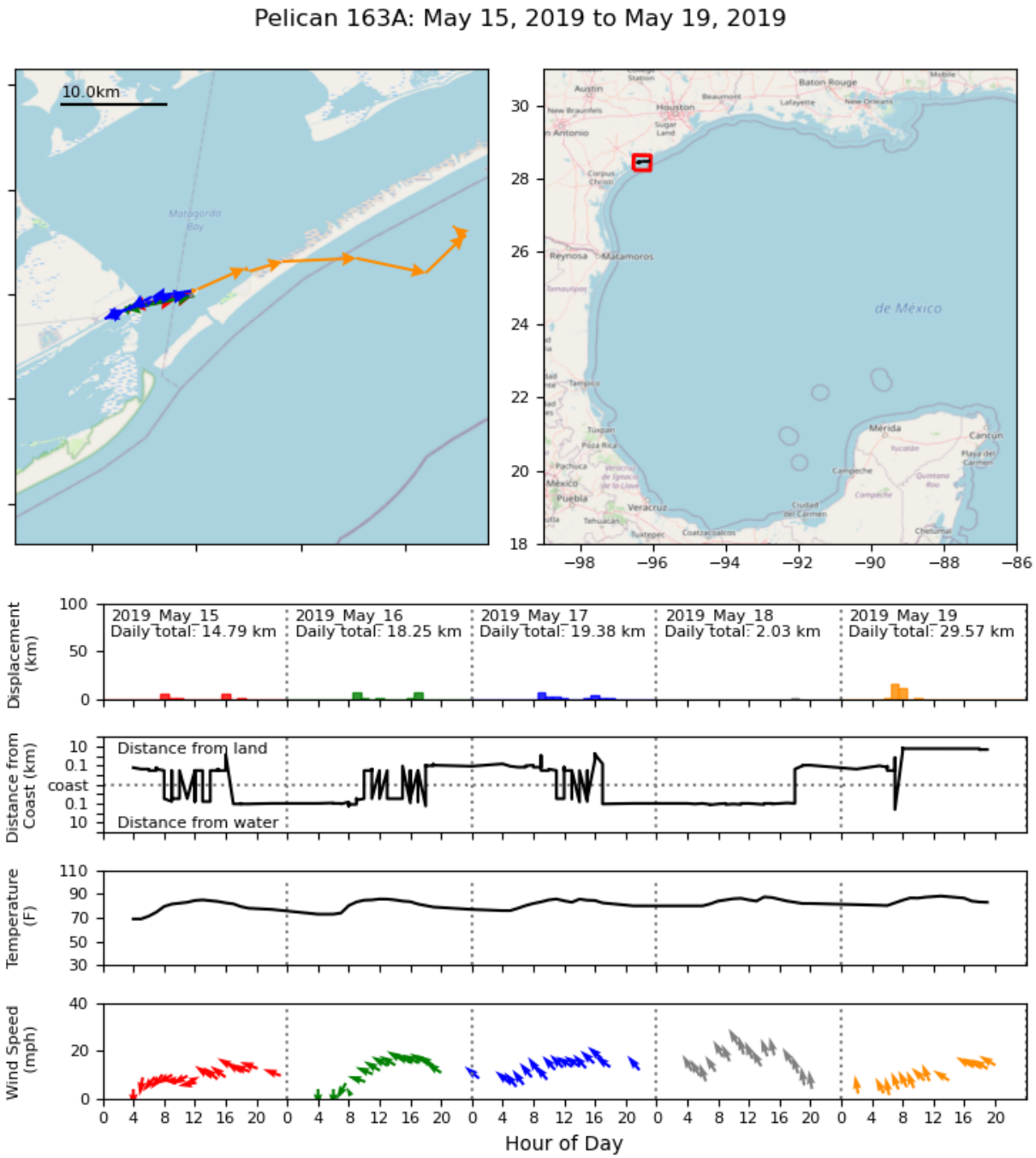

Figure 534 - Maps and graphs showing movements of 163A between 2019-05-15 and 2019-05-18 inclusive.

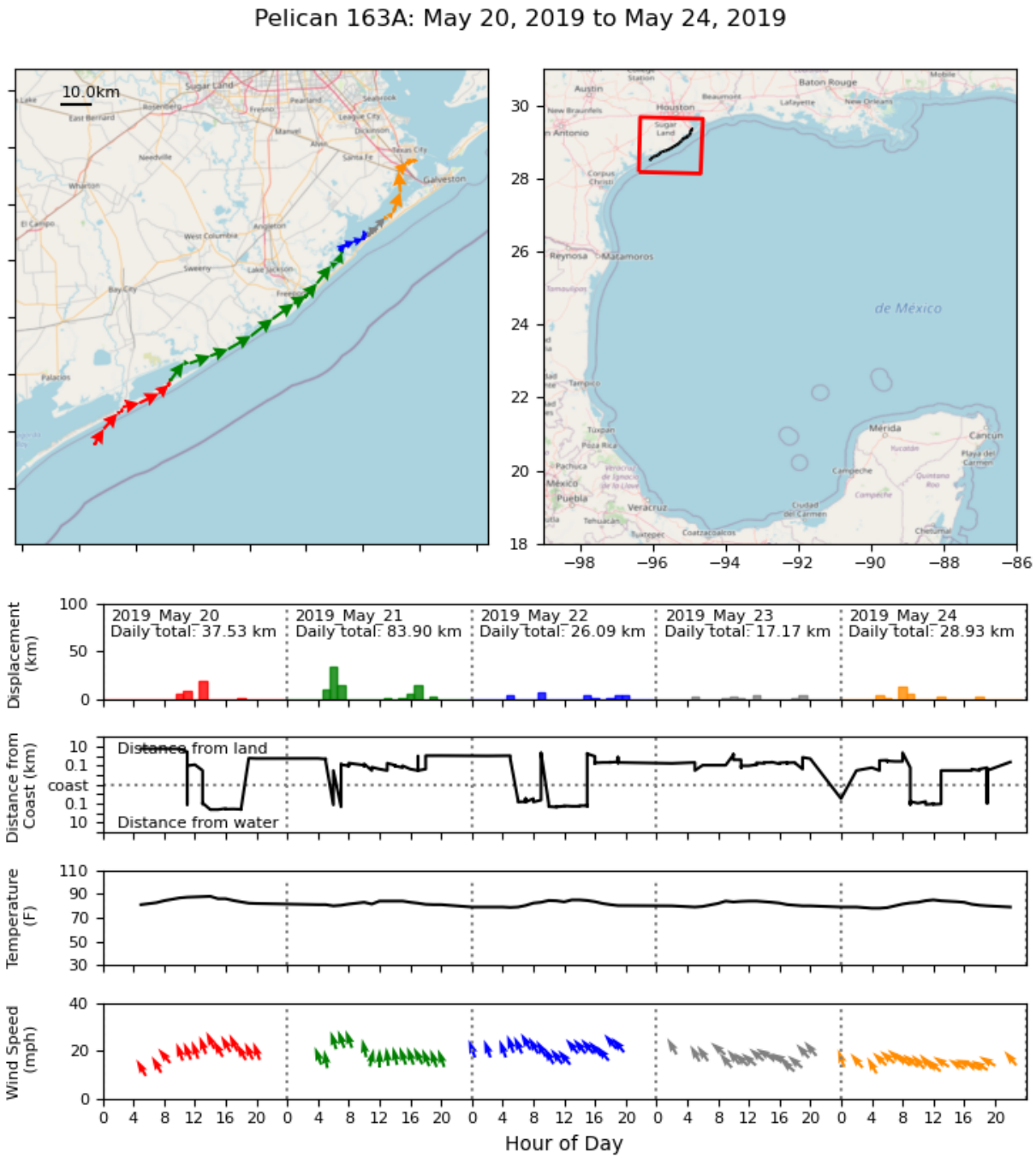

Figure 535 - Maps and graphs showing movements of 163A between 2019-05-20 and 2019-05-23 inclusive.

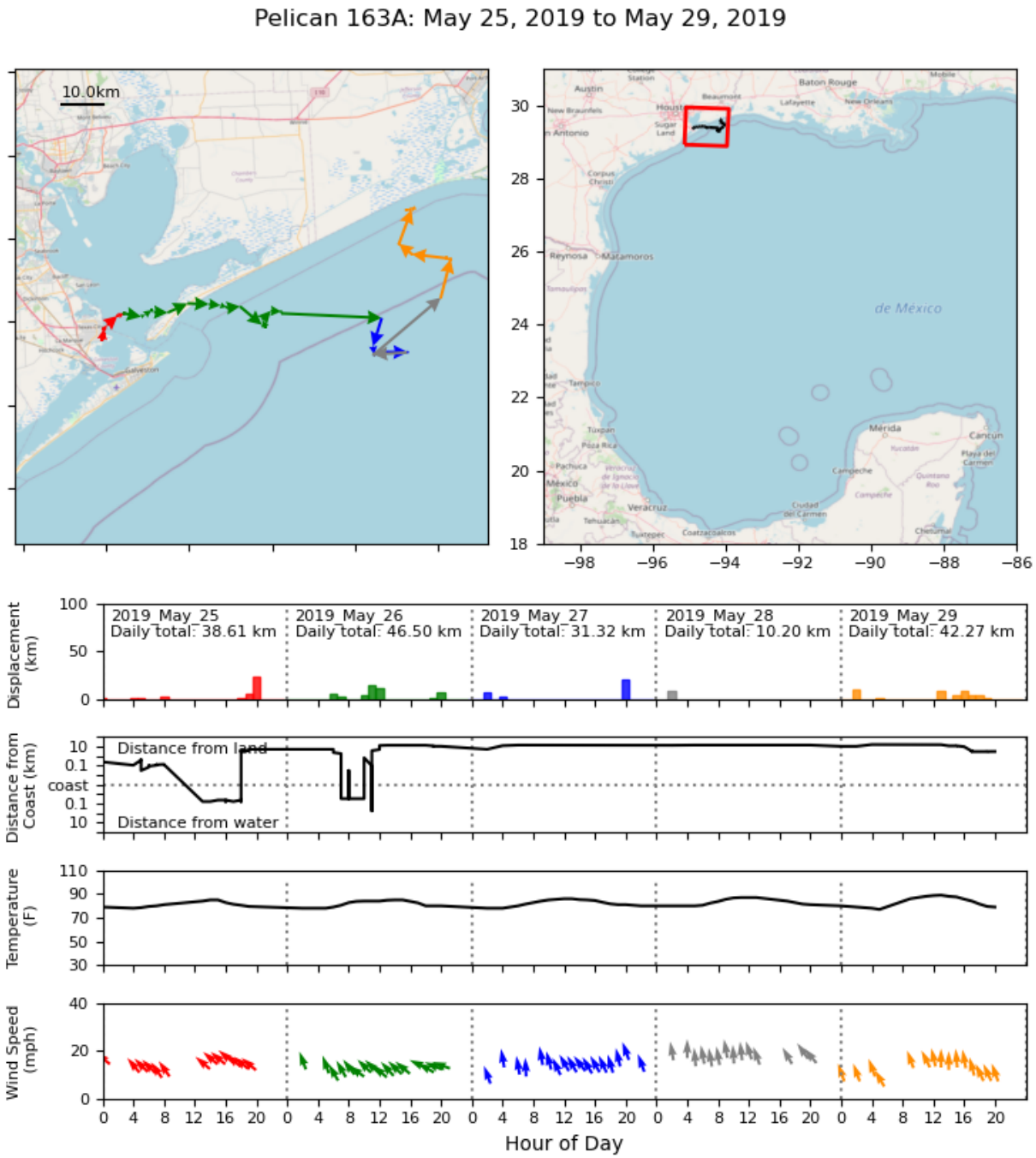

Figure 536 - Maps and graphs showing movements of 163A between 2019-05-25 and 2019-05-28 inclusive.

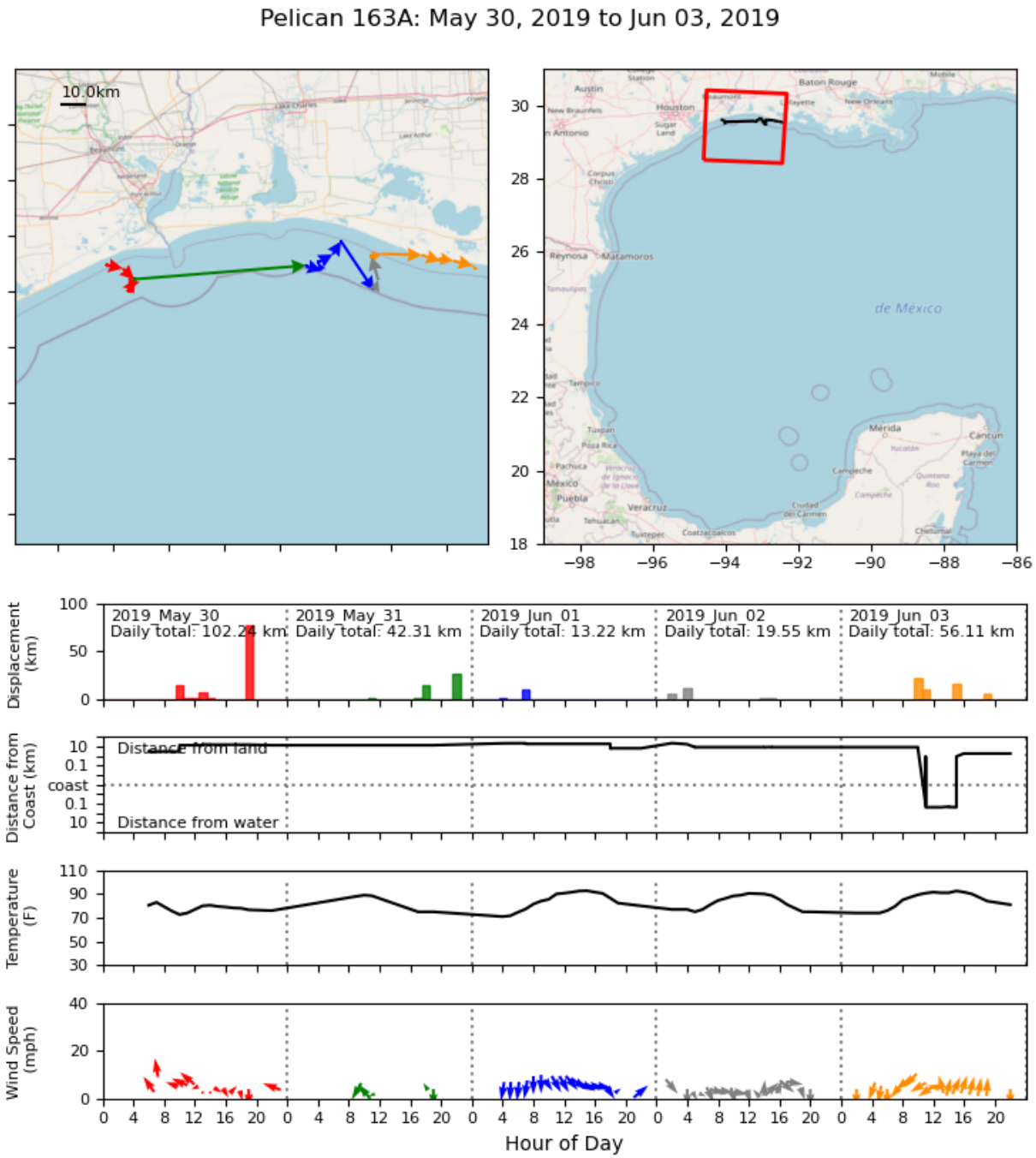

Figure 537 - Maps and graphs showing movements of 163A between 2019-05-30 and 2019-06-02 inclusive.

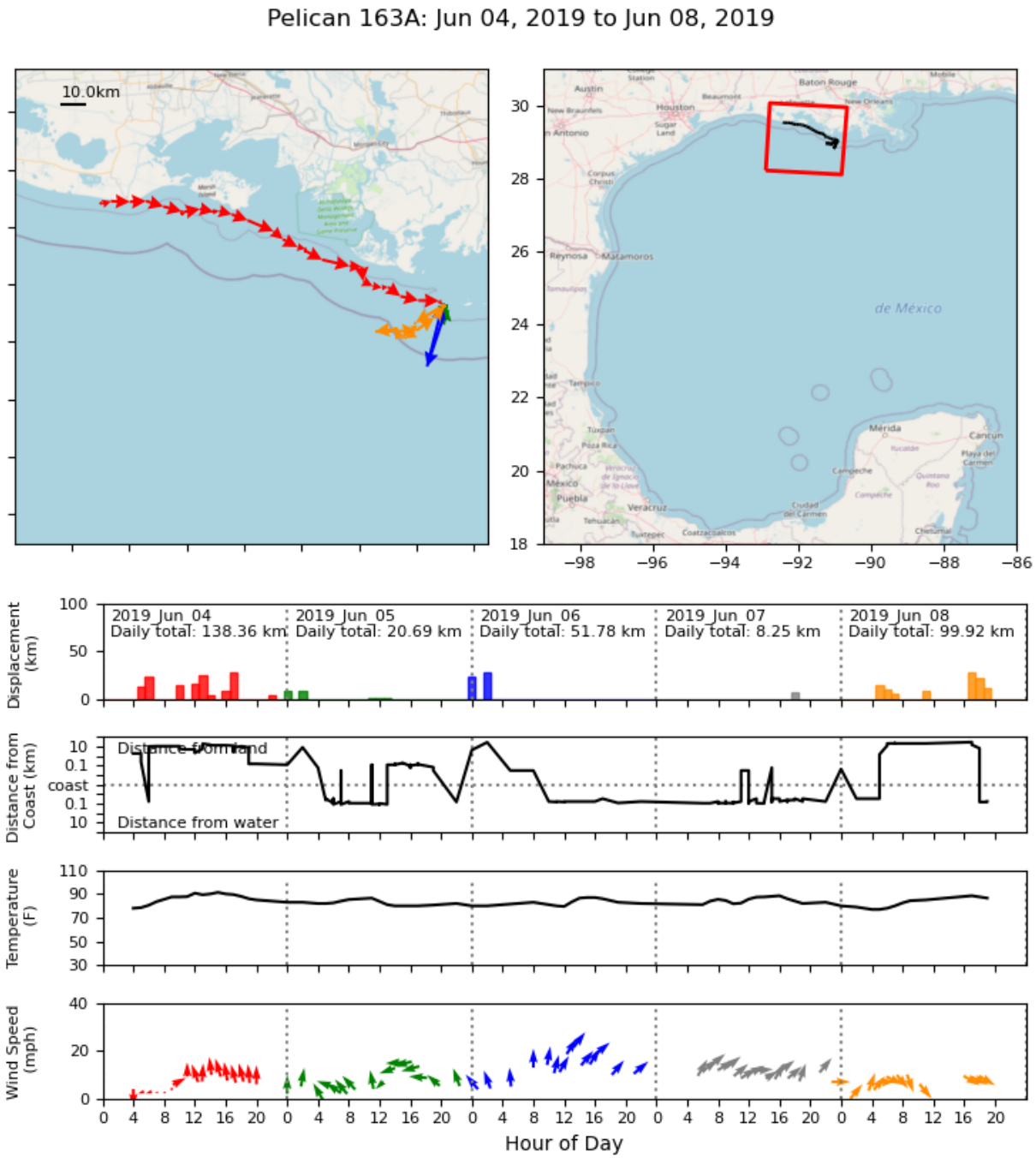

Figure 538 - Maps and graphs showing movements of 163A between 2019-06-04 and 2019-06-07 inclusive.

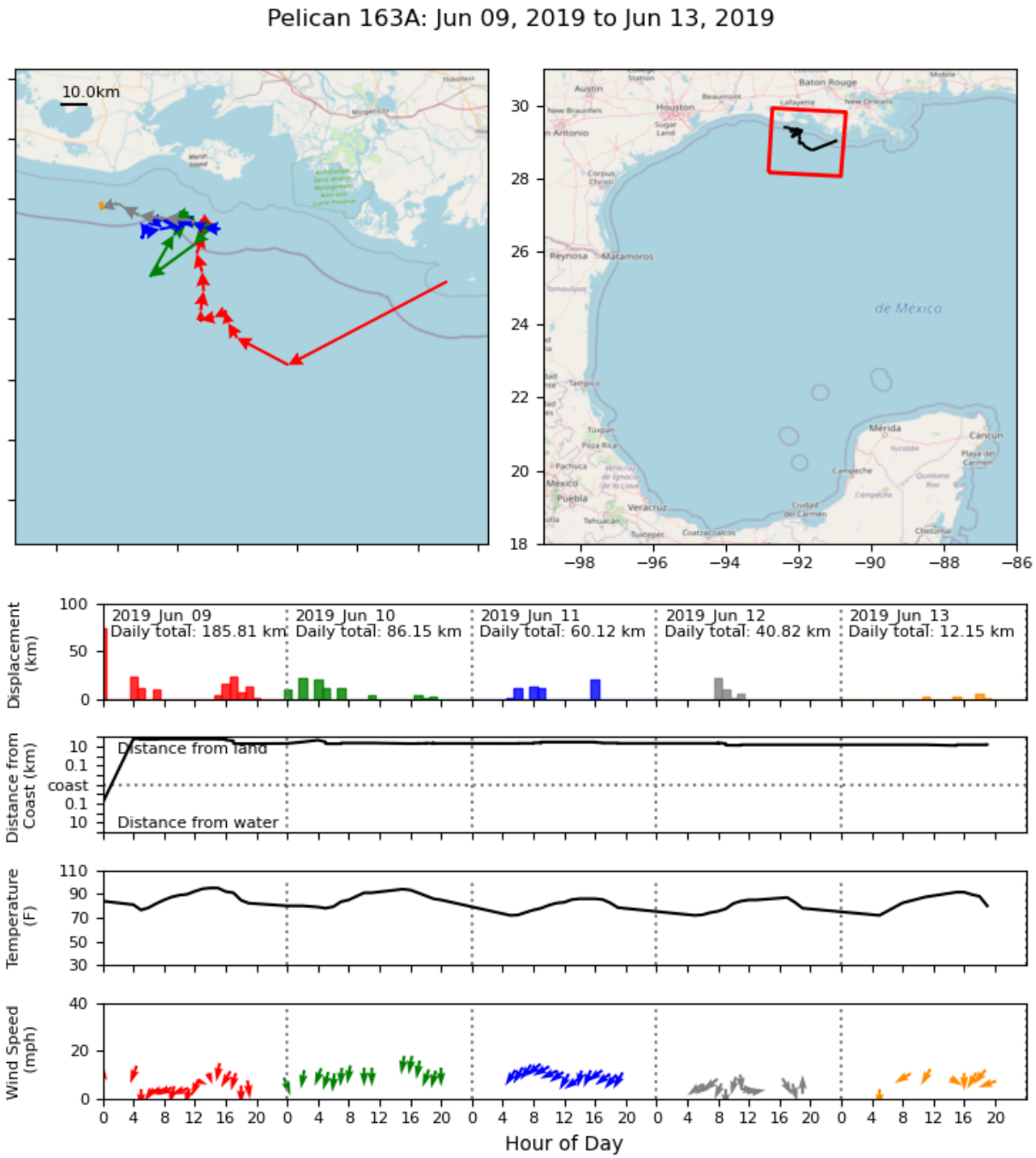

Figure 539 - Maps and graphs showing movements of 163A between 2019-06-09 and 2019-06-12 inclusive.

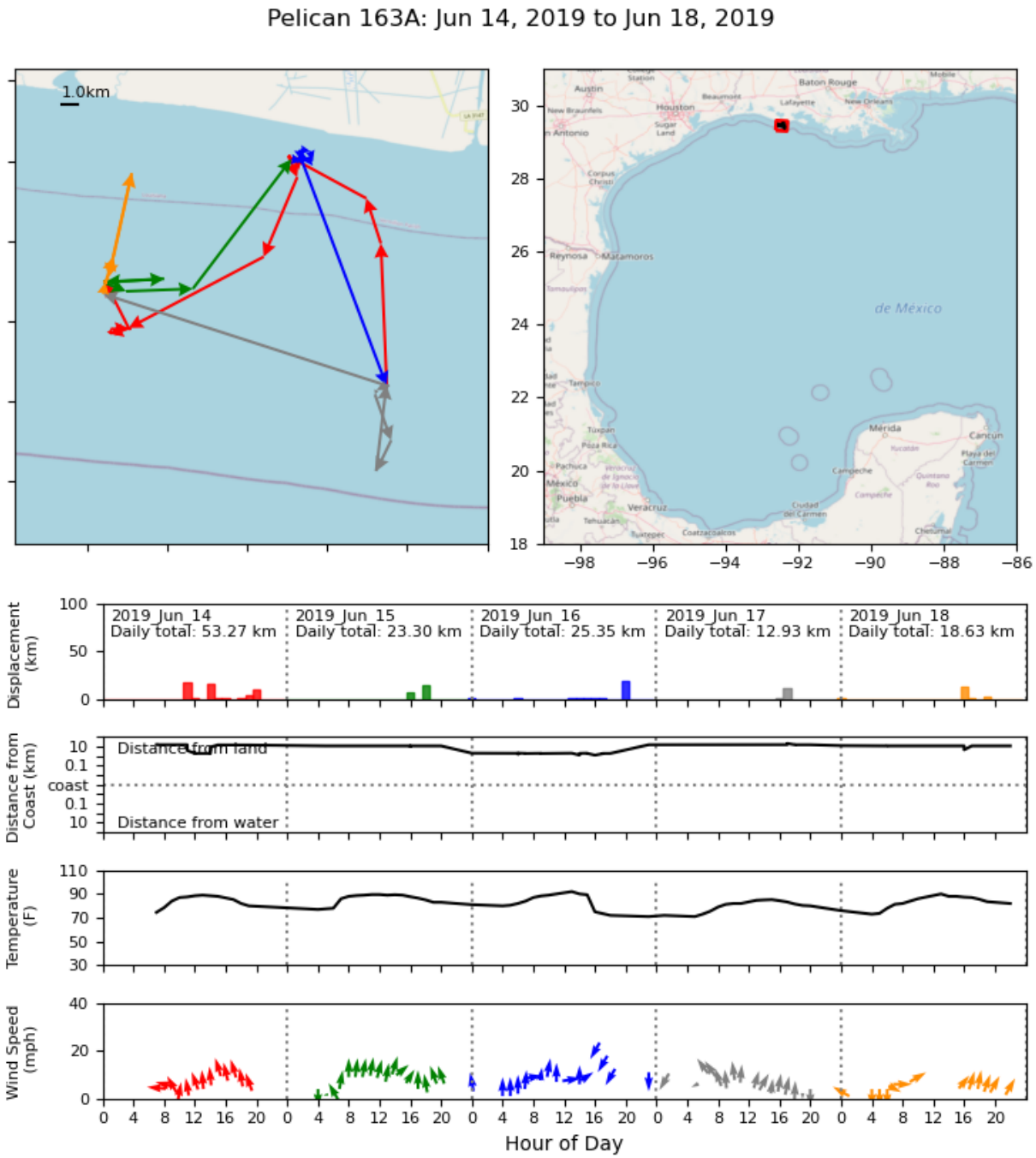

Figure 540 - Maps and graphs showing movements of 163A between 2019-06-14 and 2019-06-17 inclusive.

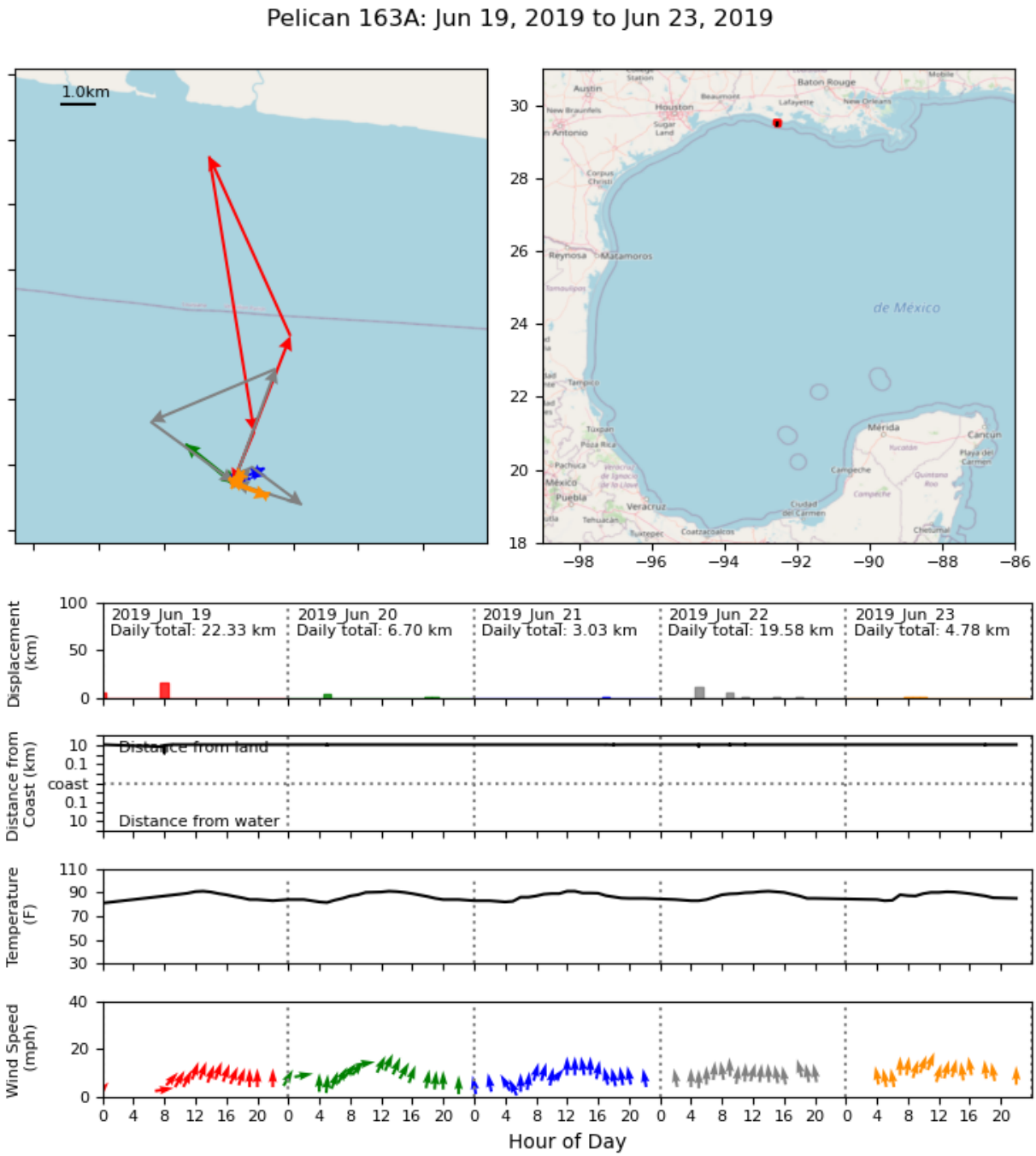

Figure 541 - Maps and graphs showing movements of 163A between 2019-06-19 and 2019-06-22 inclusive.

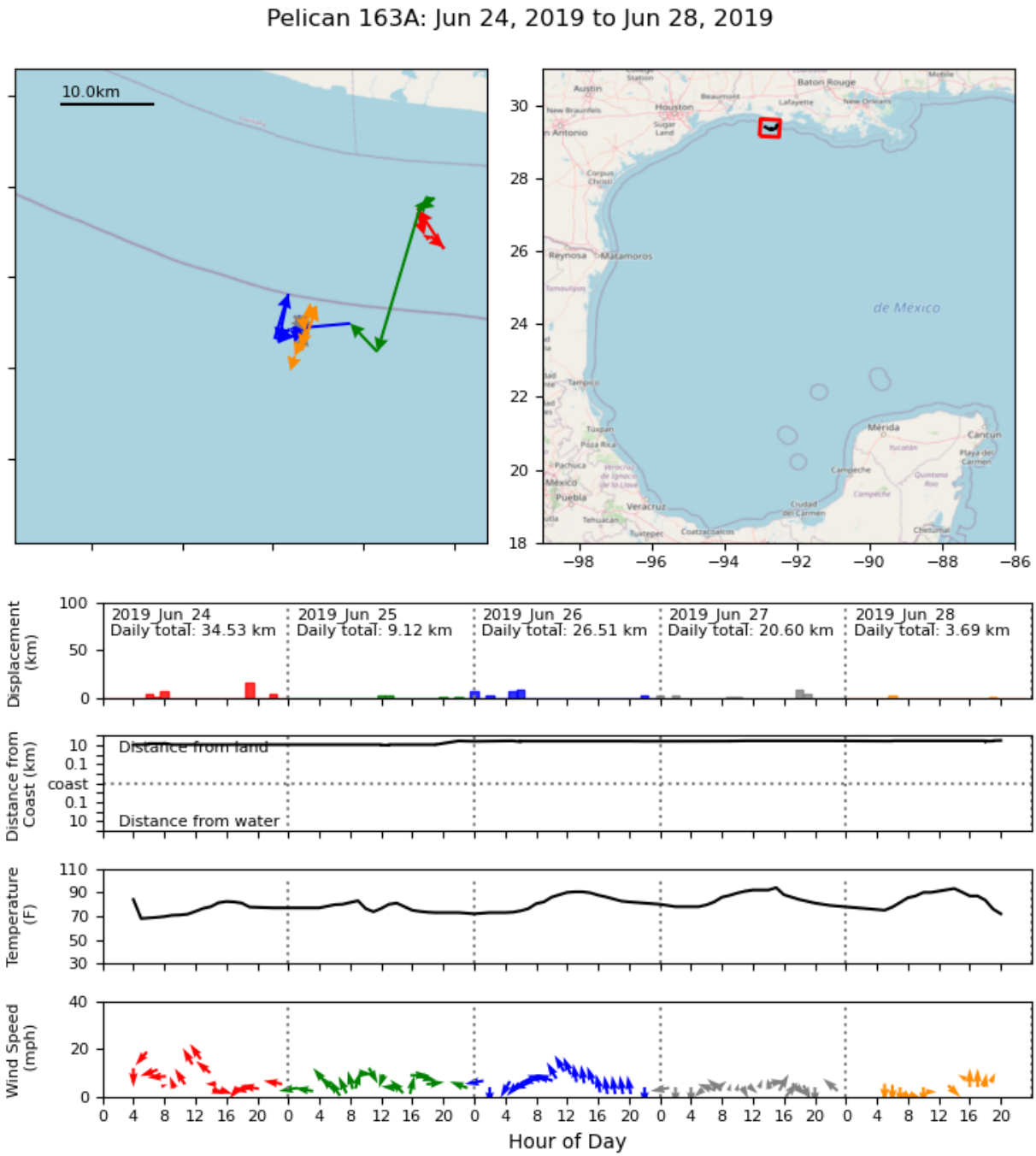

Figure 542 - Maps and graphs showing movements of 163A between 2019-06-24 and 2019-06-27 inclusive.

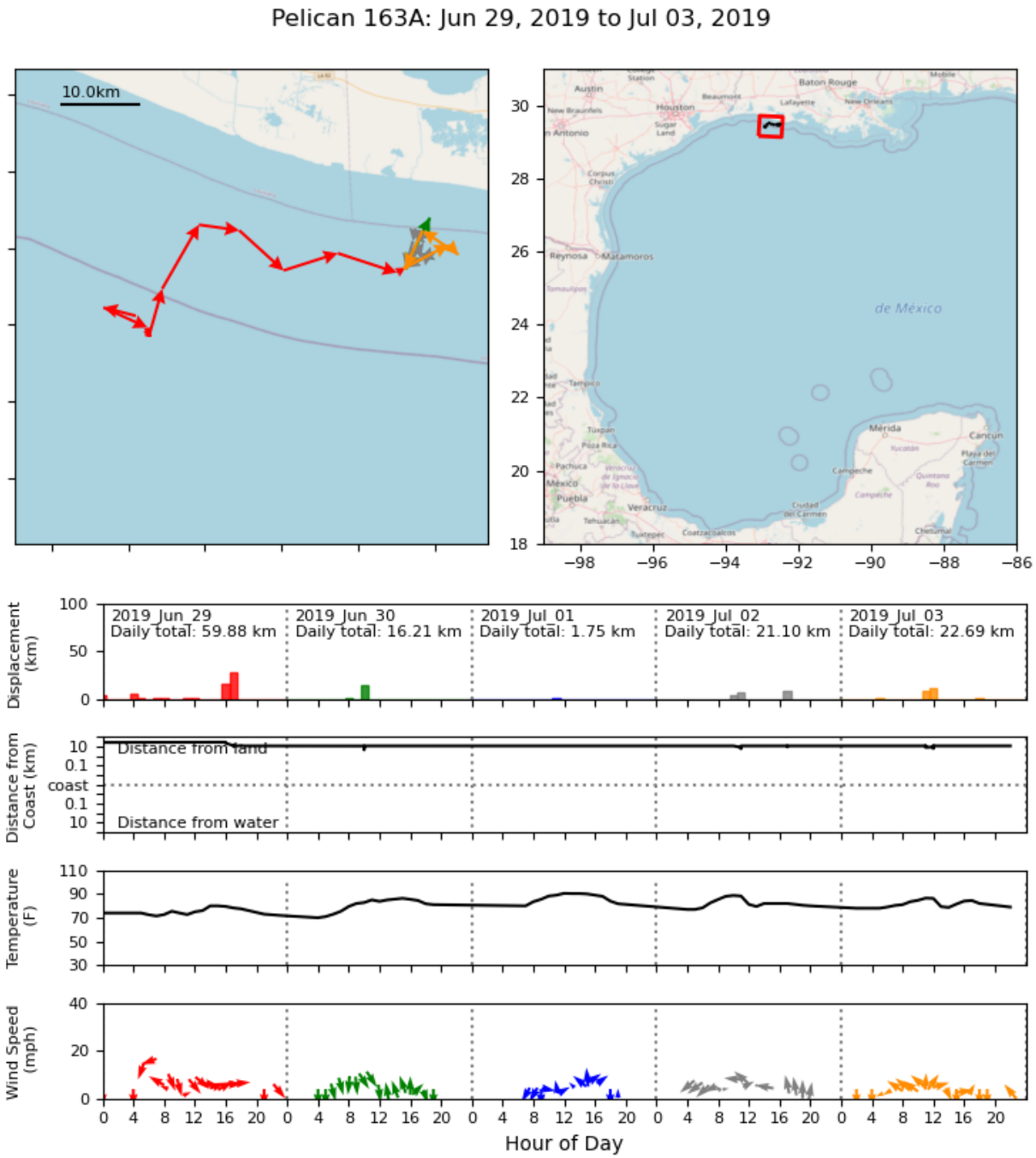

Figure 543 - Maps and graphs showing movements of 163A between 2019-06-29 and 2019-07-02 inclusive.

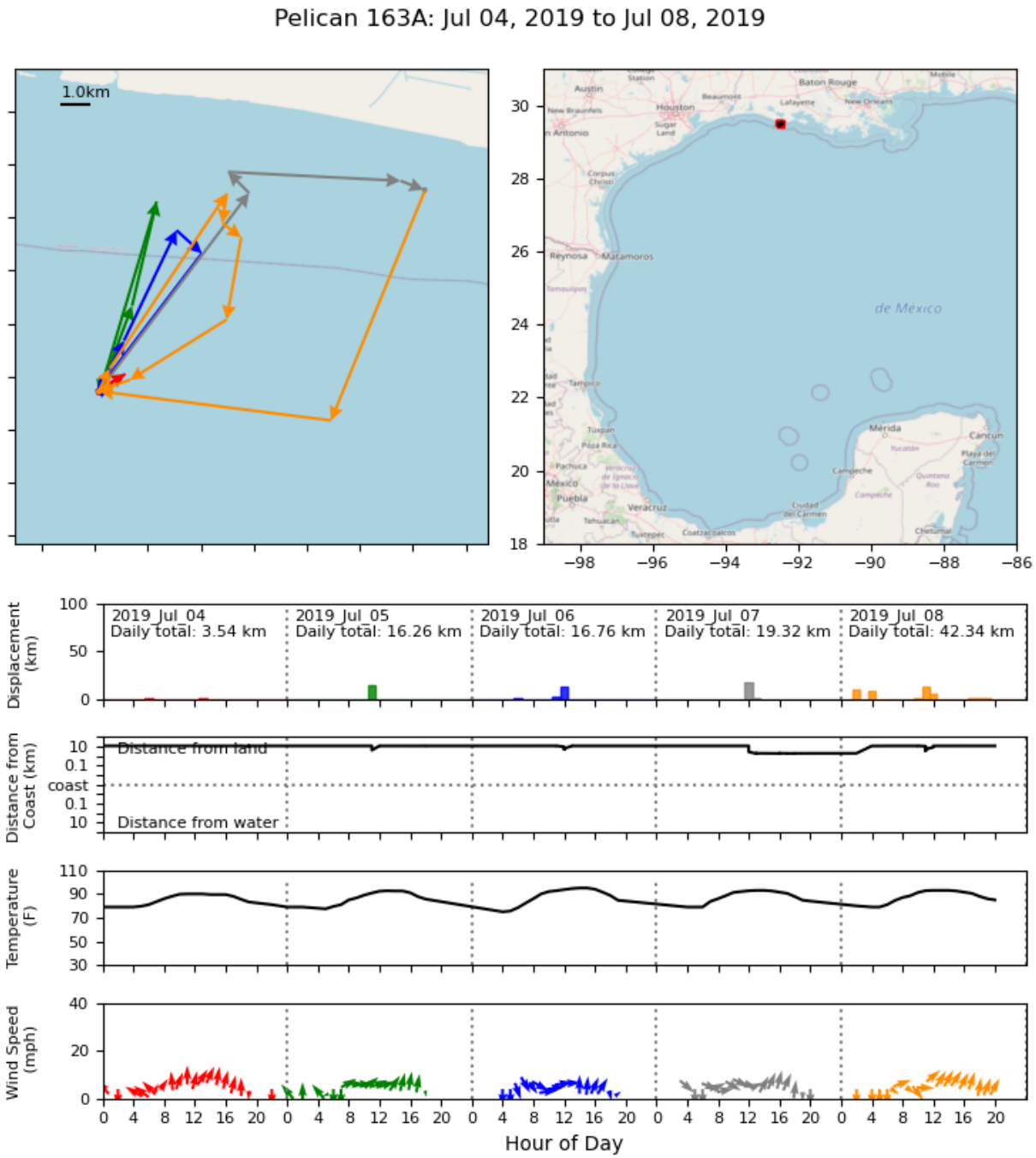

Figure 544 - Maps and graphs showing movements of 163A between 2019-07-04 and 2019-07-07 inclusive.

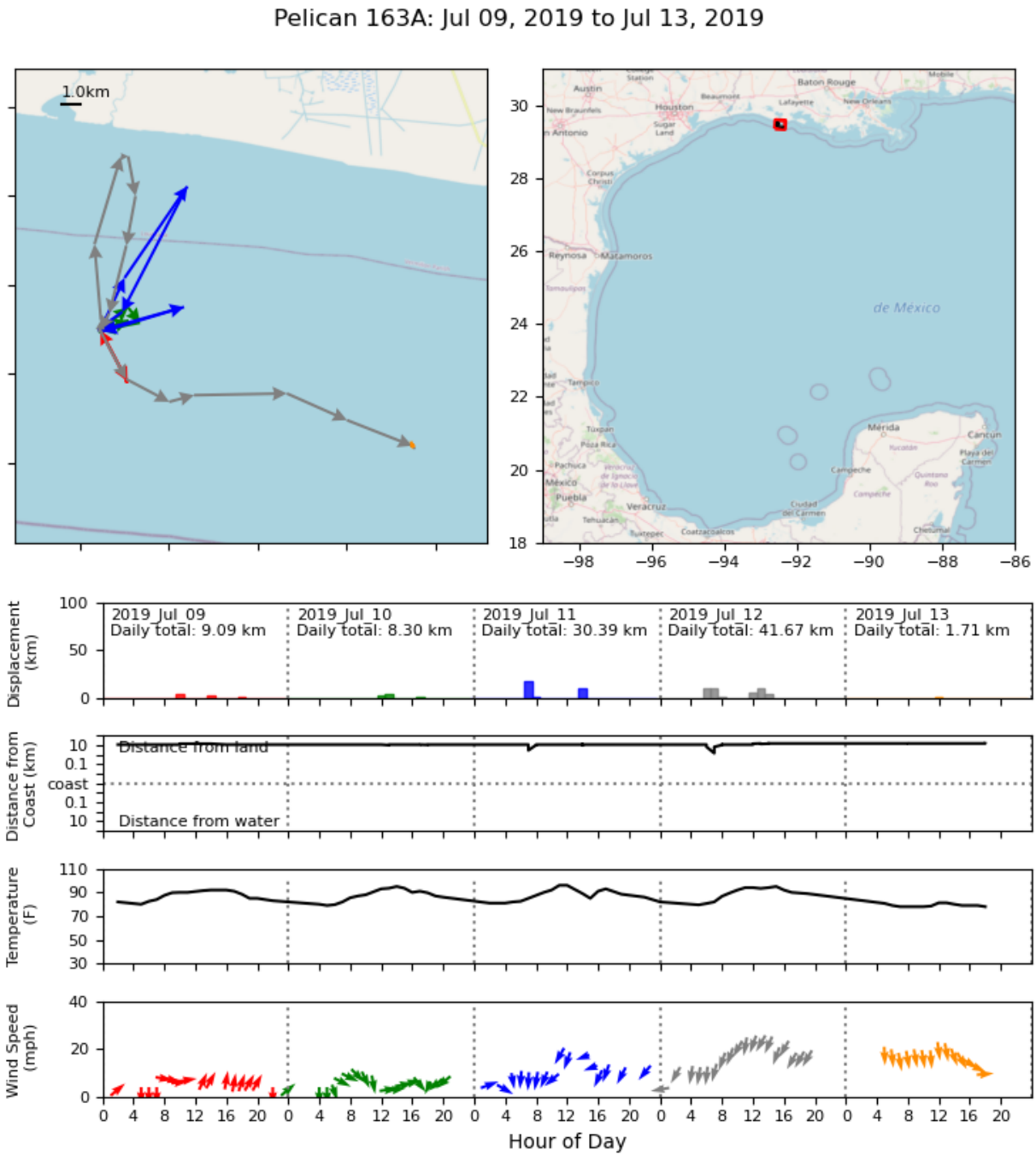

Figure 545 - Maps and graphs showing movements of 163A between 2019-07-09 and 2019-07-12 inclusive.

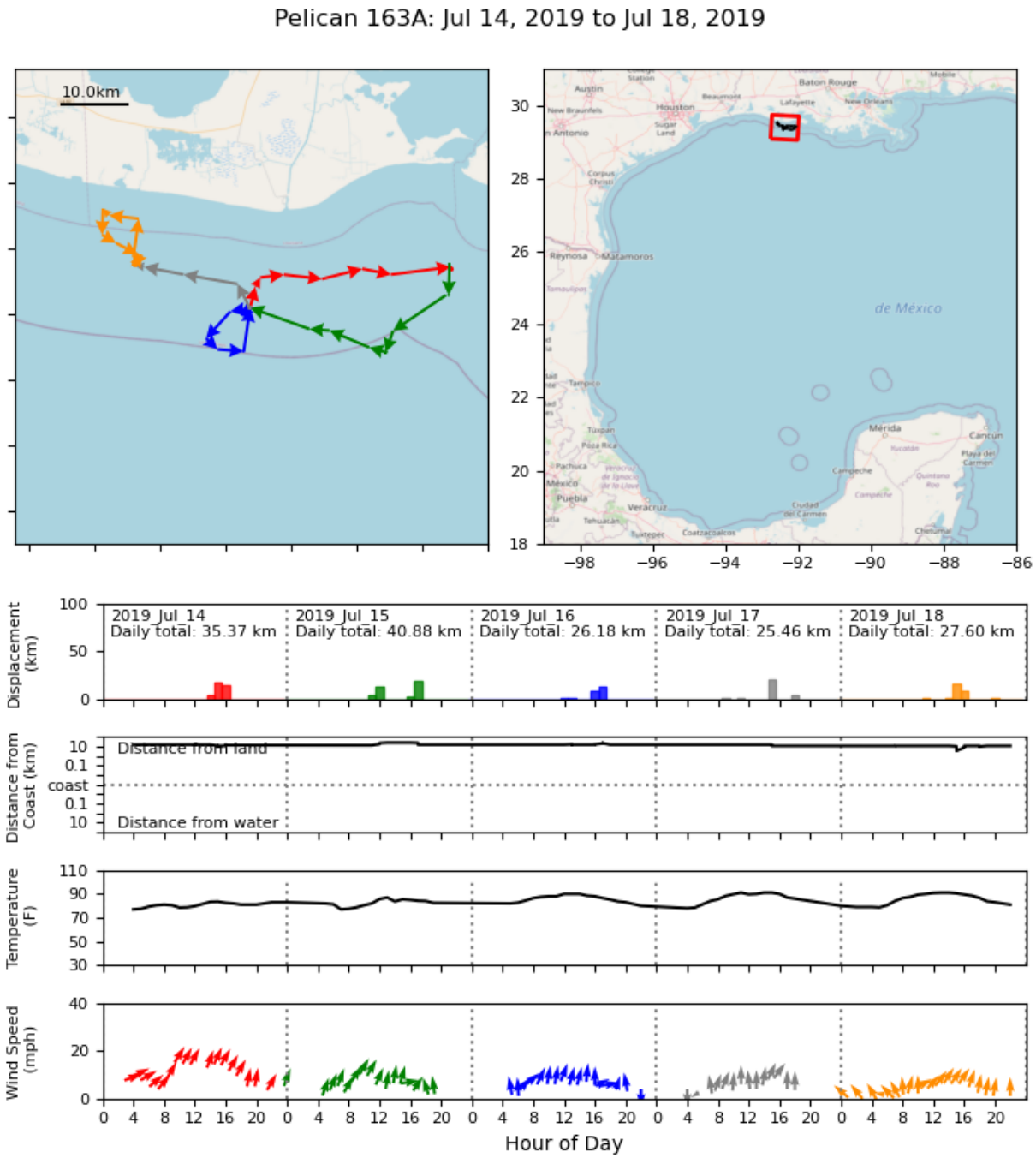

Figure 546 - Maps and graphs showing movements of 163A between 2019-07-14 and 2019-07-17 inclusive.

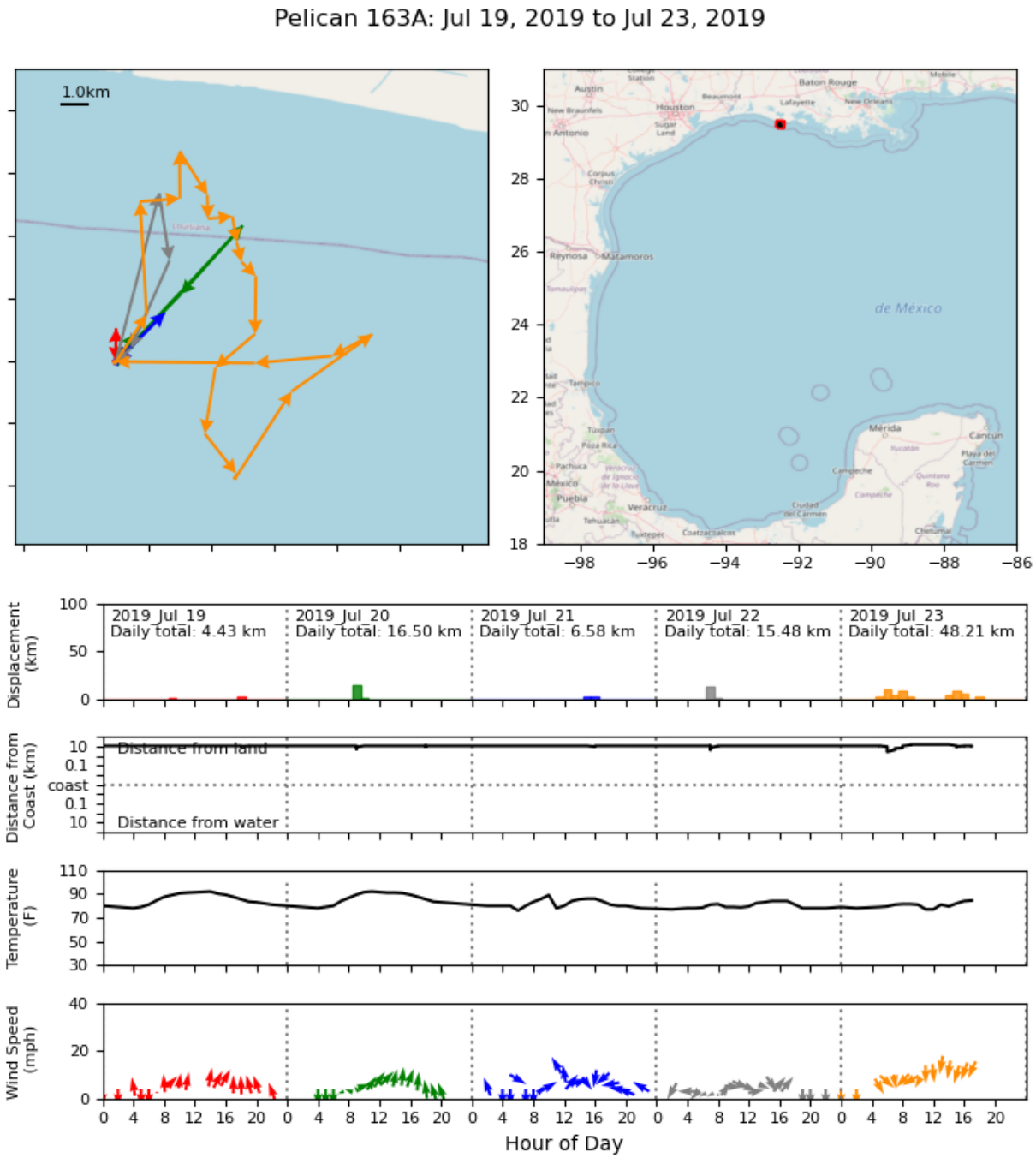

Figure 547 - Maps and graphs showing movements of 163A between 2019-07-19 and 2019-07-22 inclusive.

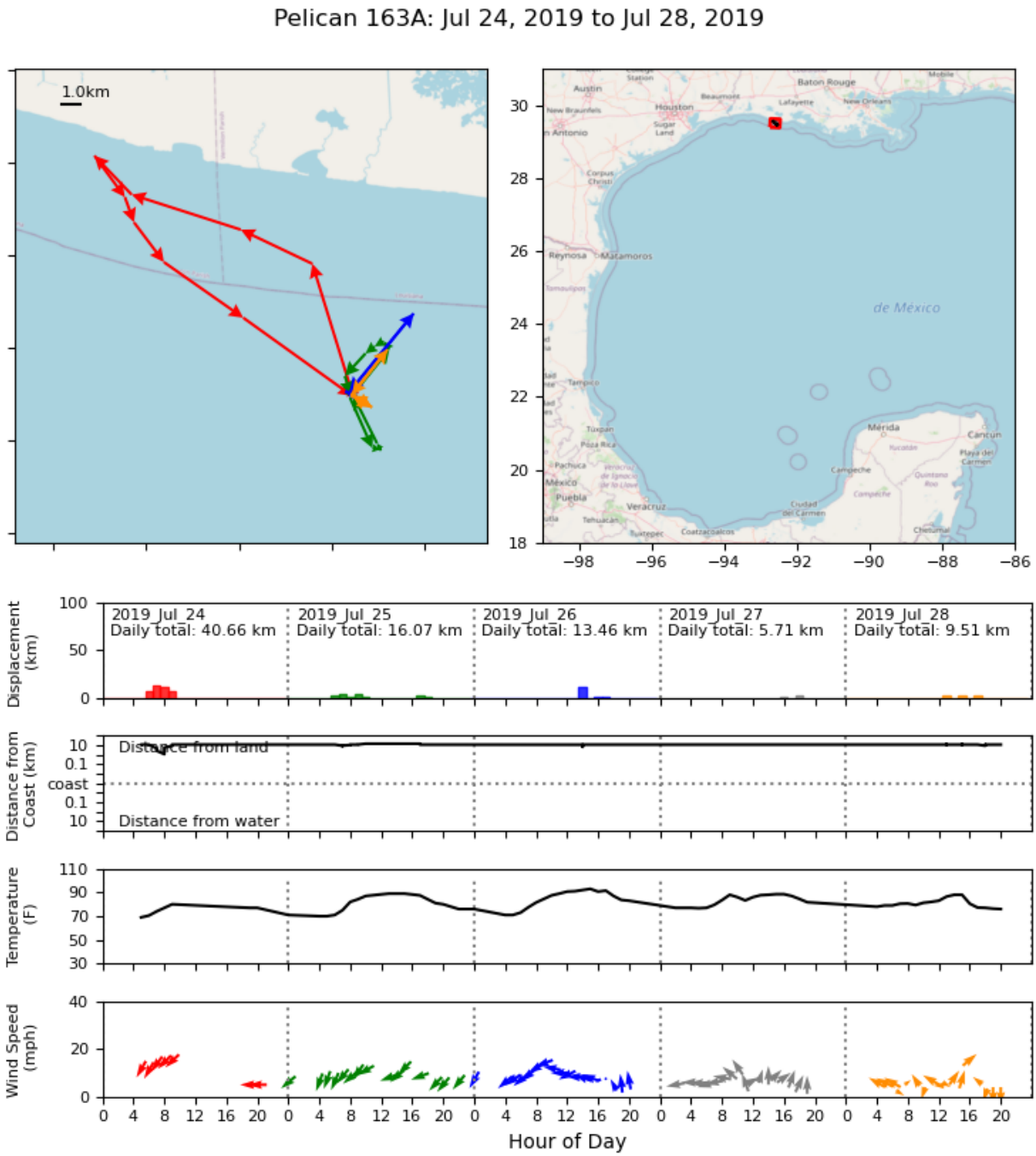

Figure 548 - Maps and graphs showing movements of 163A between 2019-07-24 and 2019-07-27 inclusive.

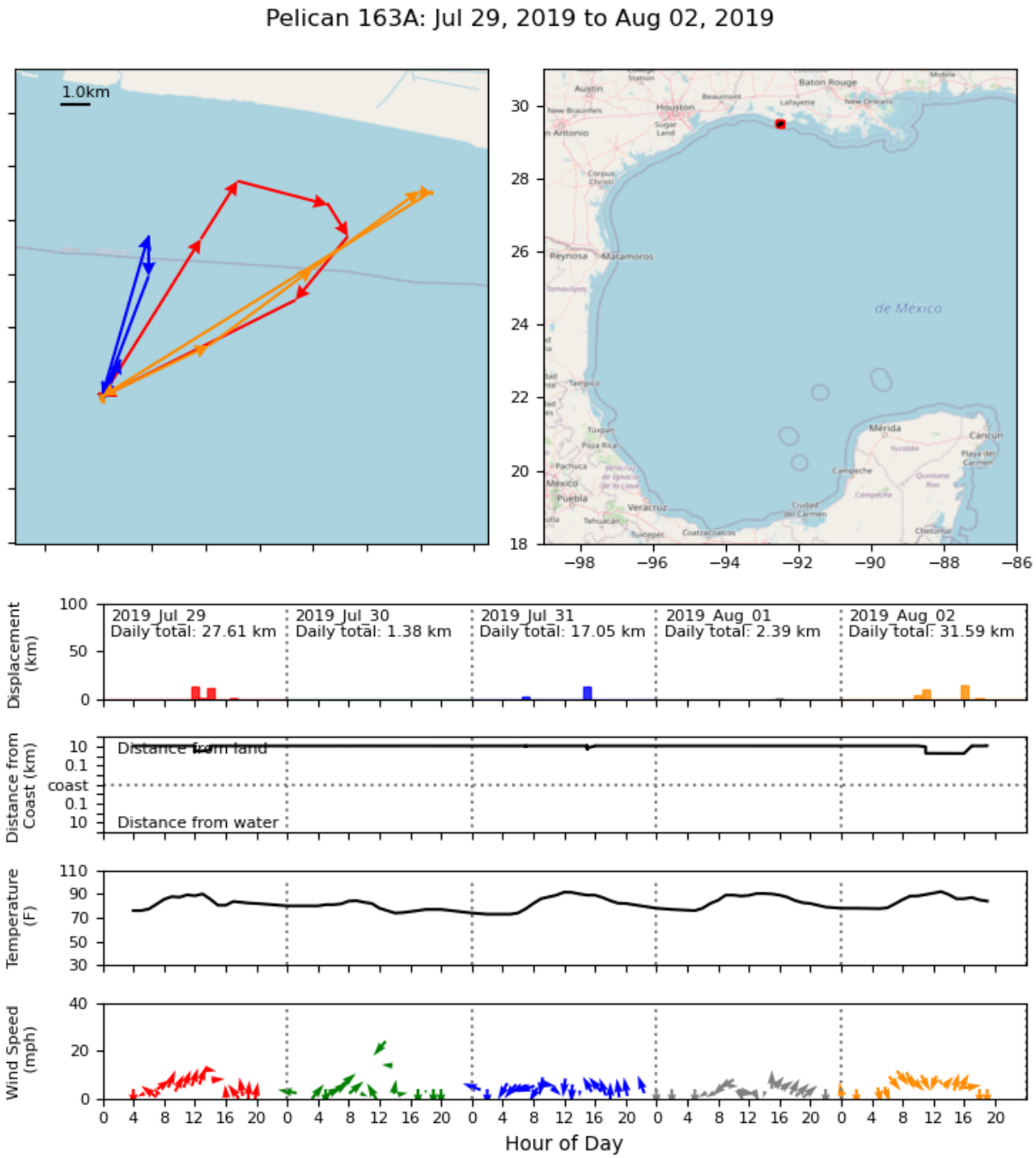

Figure 549 - Maps and graphs showing movements of 163A between 2019-07-29 and 2019-08-01 inclusive.

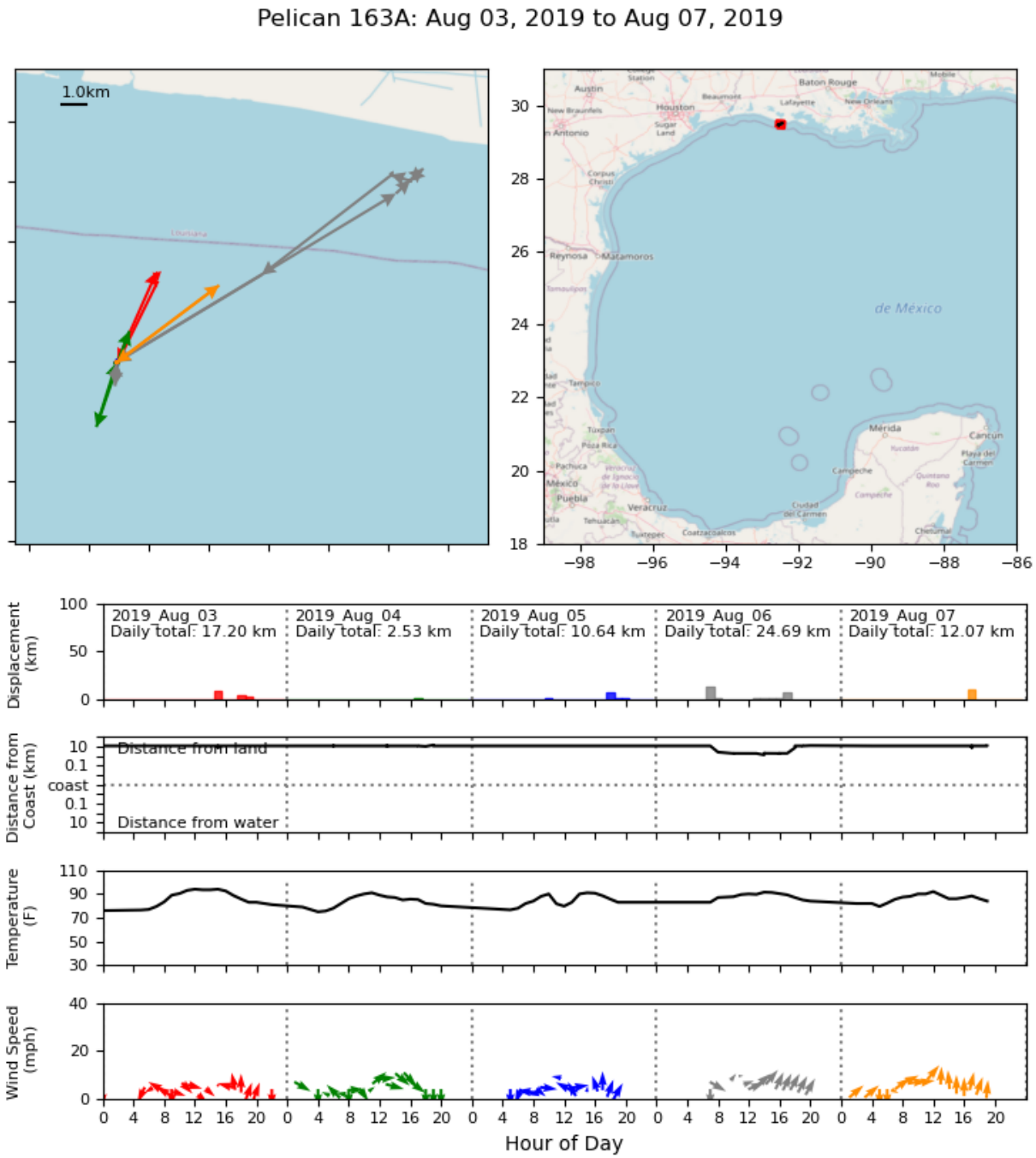

Figure 550 - Maps and graphs showing movements of 163A between 2019-08-03 and 2019-08-06 inclusive.

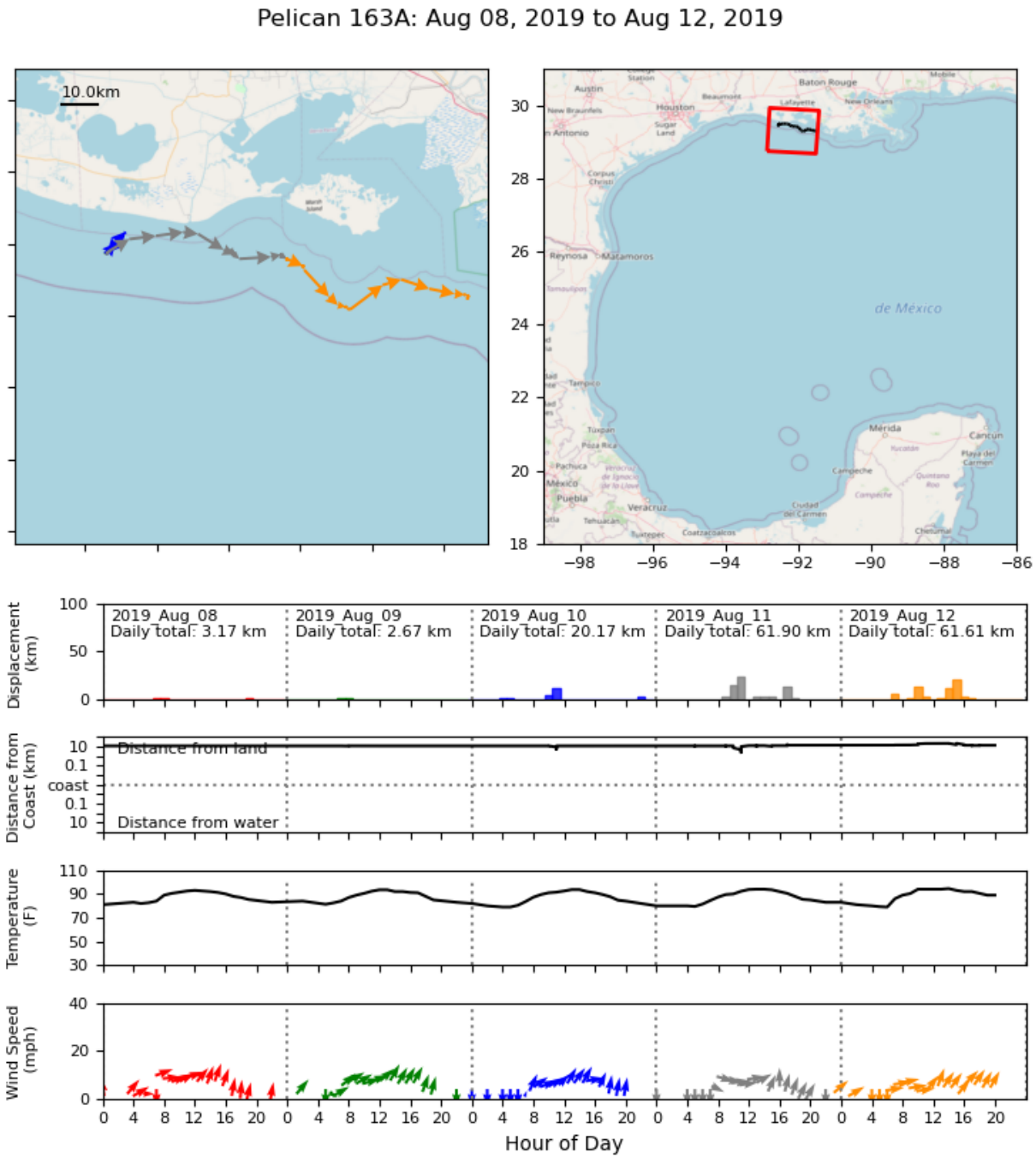

Figure 551 - Maps and graphs showing movements of 163A between 2019-08-08 and 2019-08-11 inclusive.

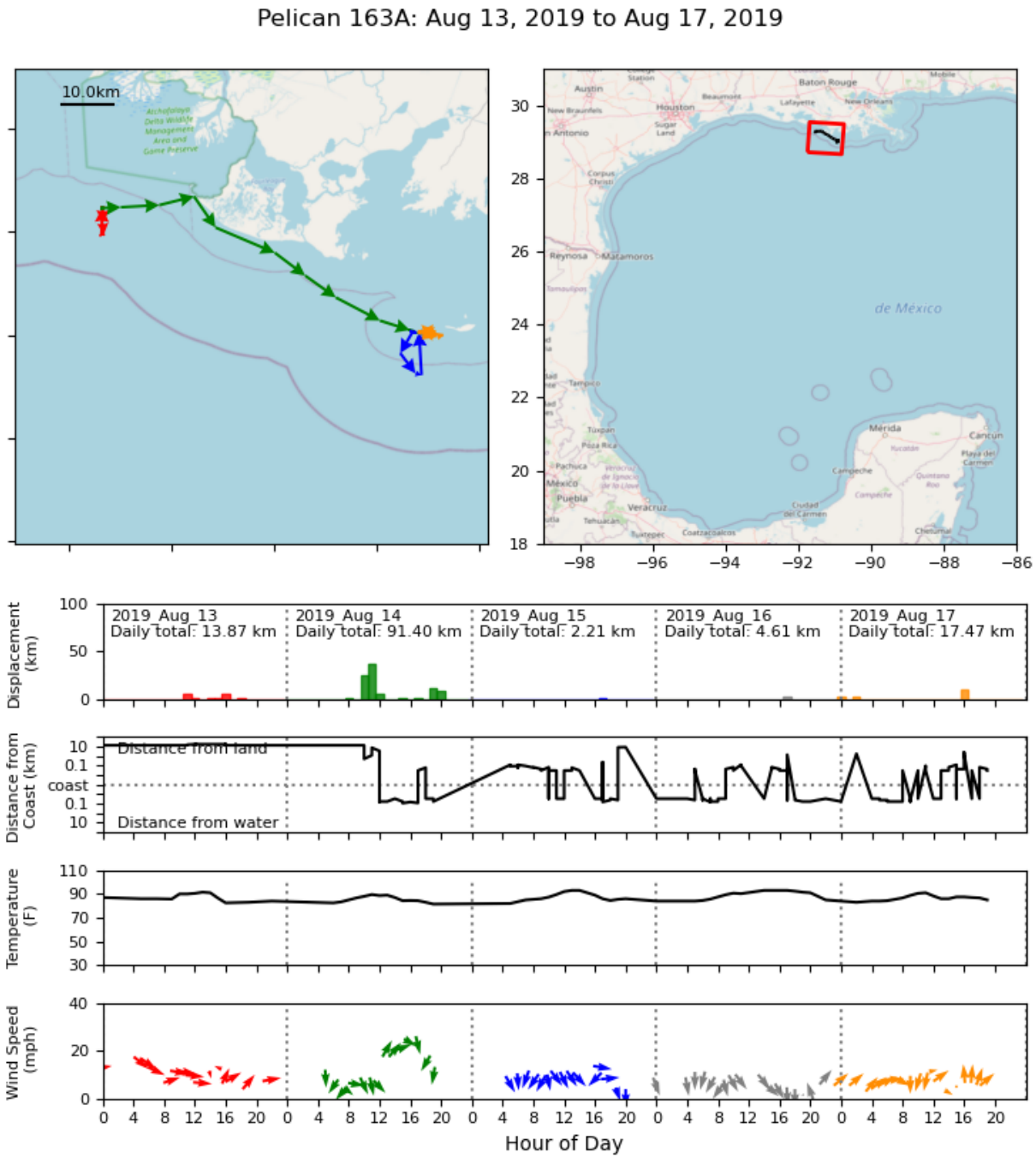

Figure 552 - Maps and graphs showing movements of 163A between 2019-08-13 and 2019-08-16 inclusive.

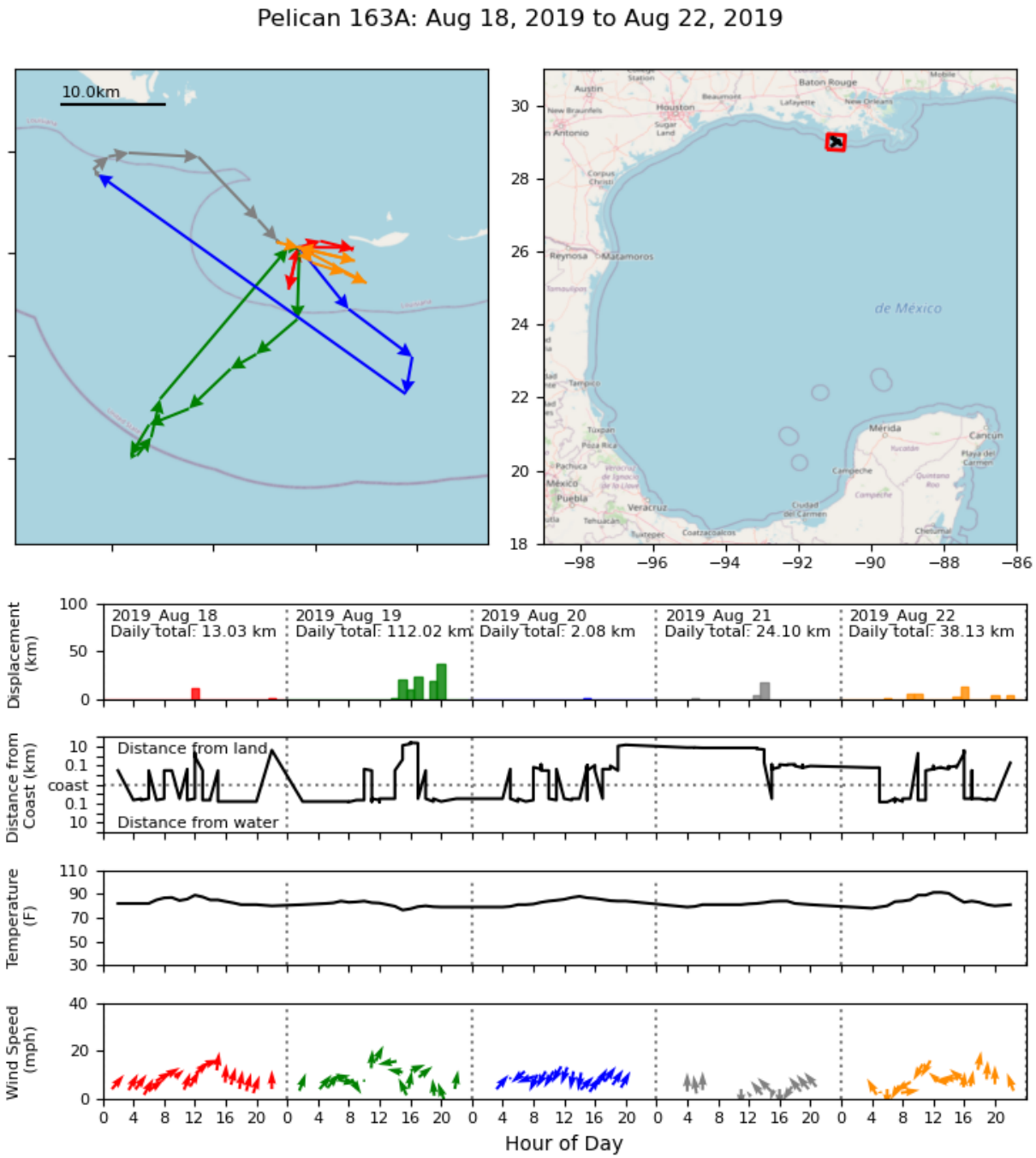

Figure 553 - Maps and graphs showing movements of 163A between 2019-08-18 and 2019-08-21 inclusive.

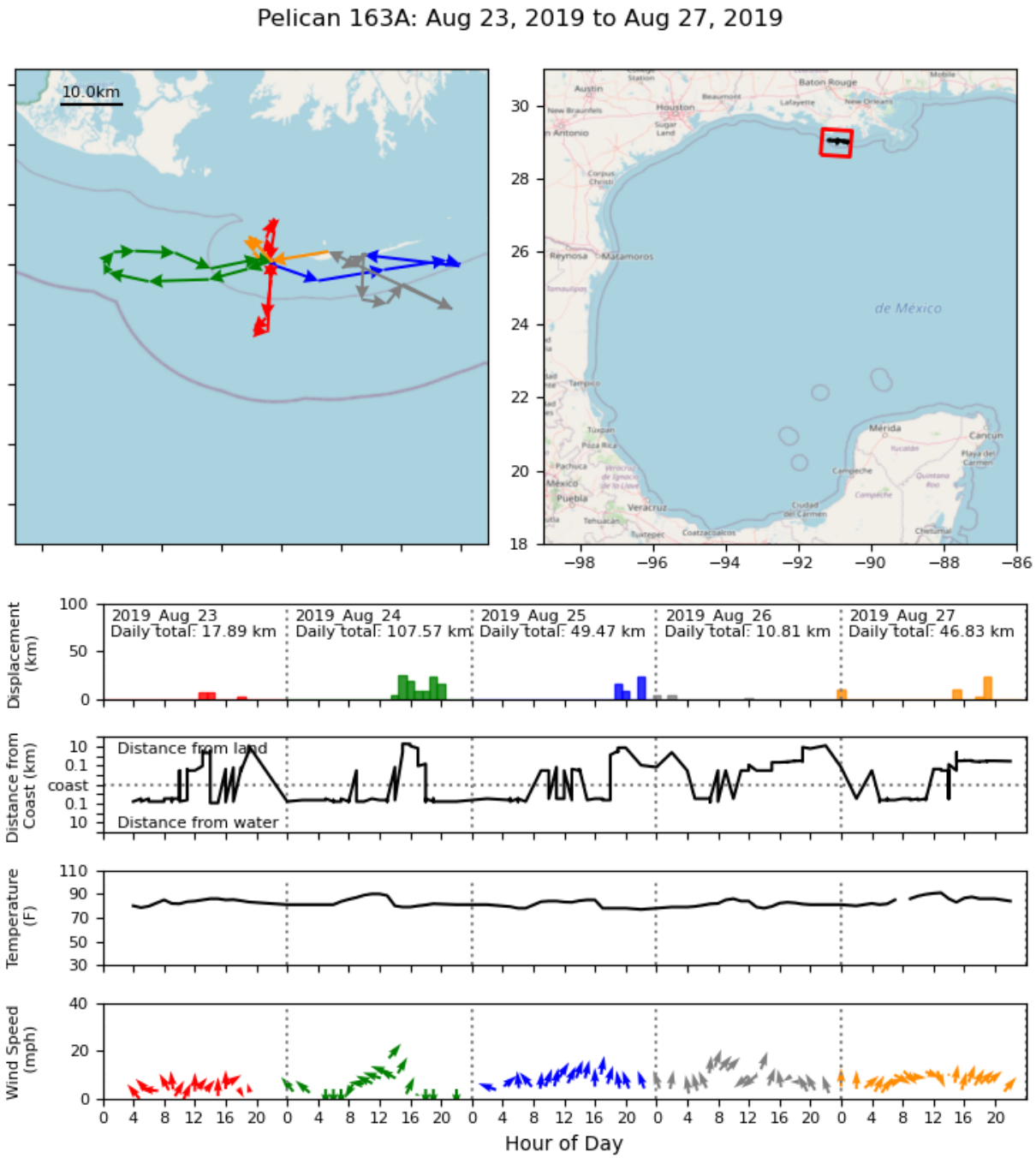

Figure 554 - Maps and graphs showing movements of 163A between 2019-08-23 and 2019-08-26 inclusive.

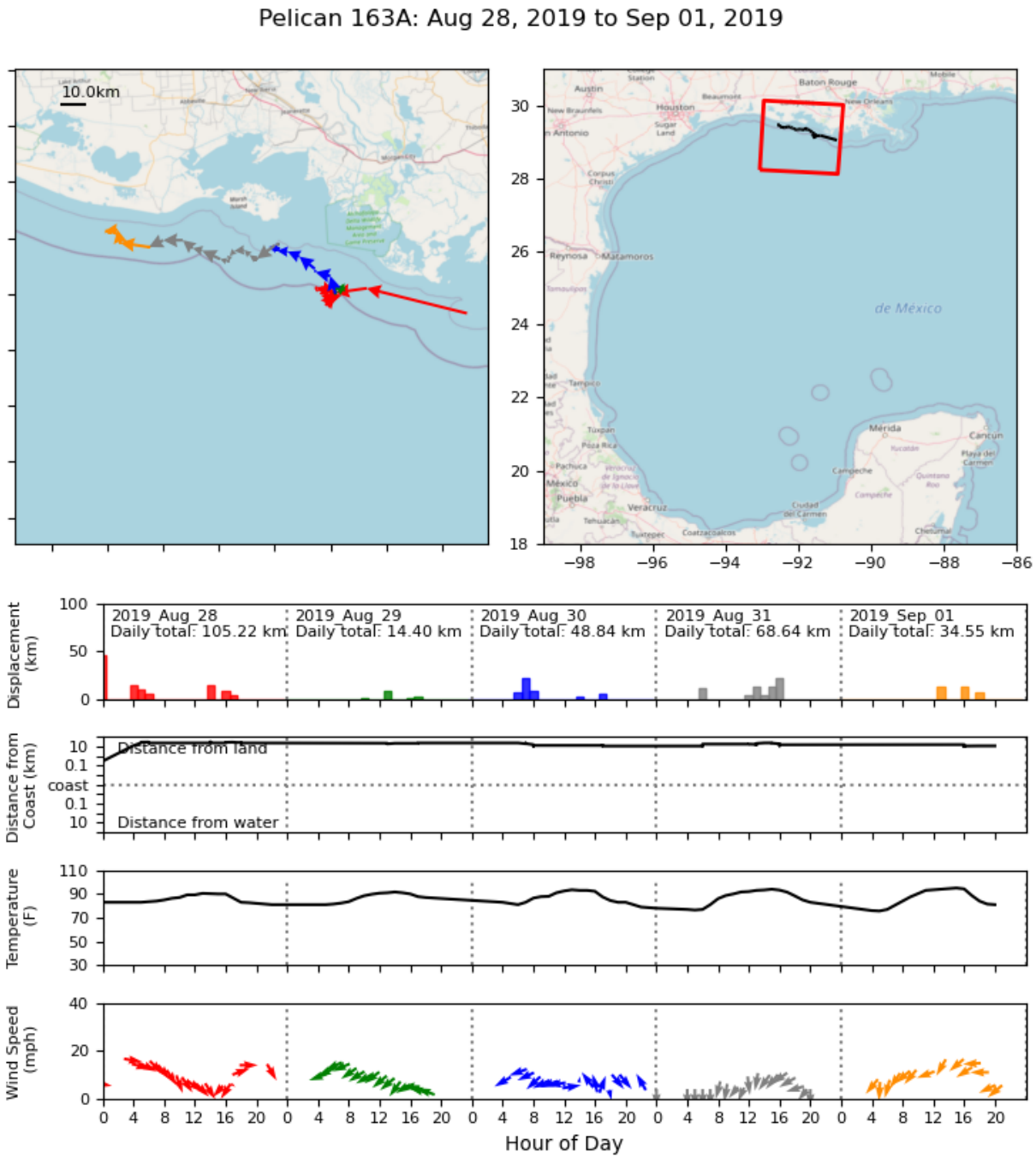

Figure 555 - Maps and graphs showing movements of 163A between 2019-08-28 and 2019-08-31 inclusive.

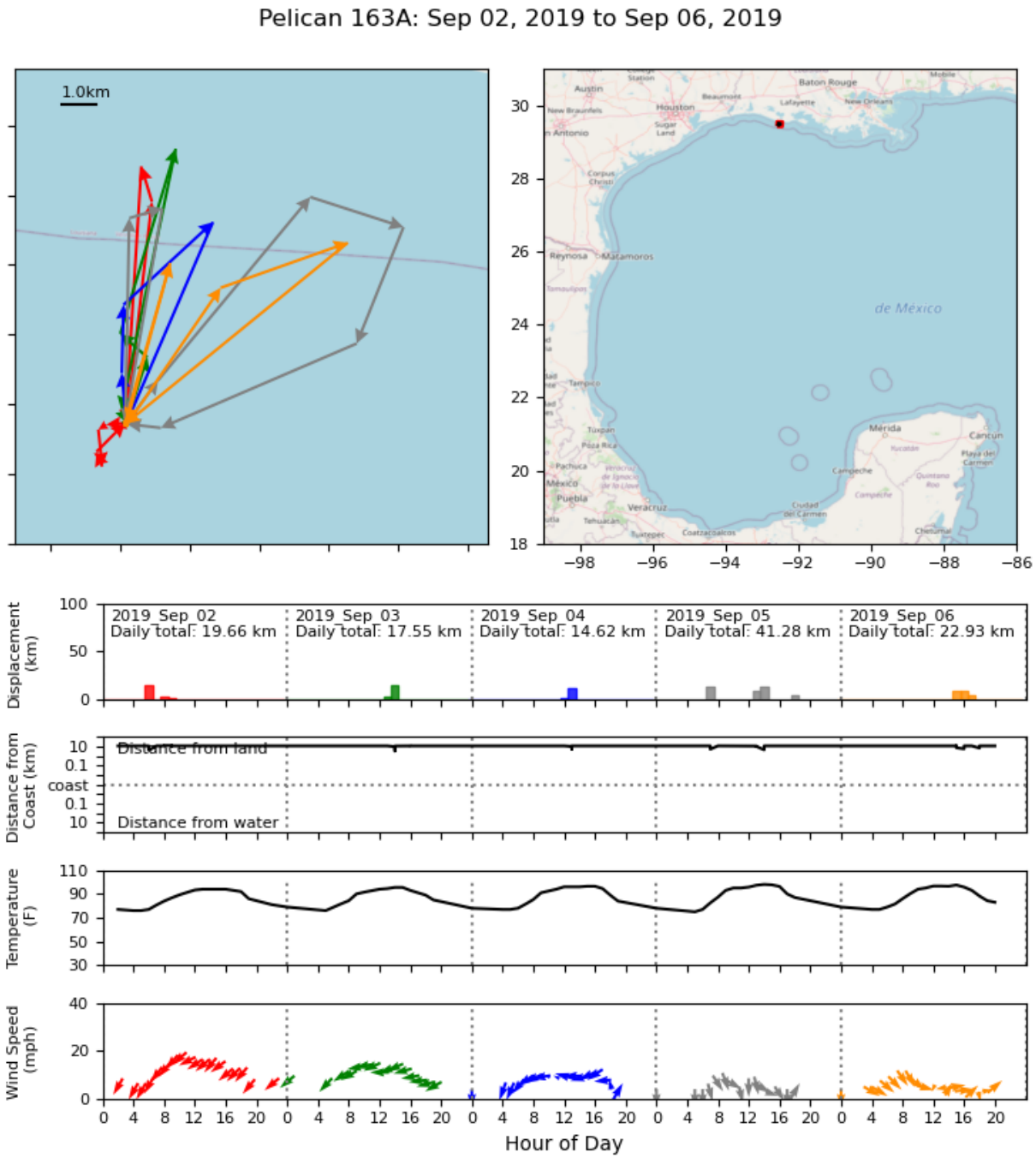

Figure 556 - Maps and graphs showing movements of 163A between 2019-09-02 and 2019-09-05 inclusive.

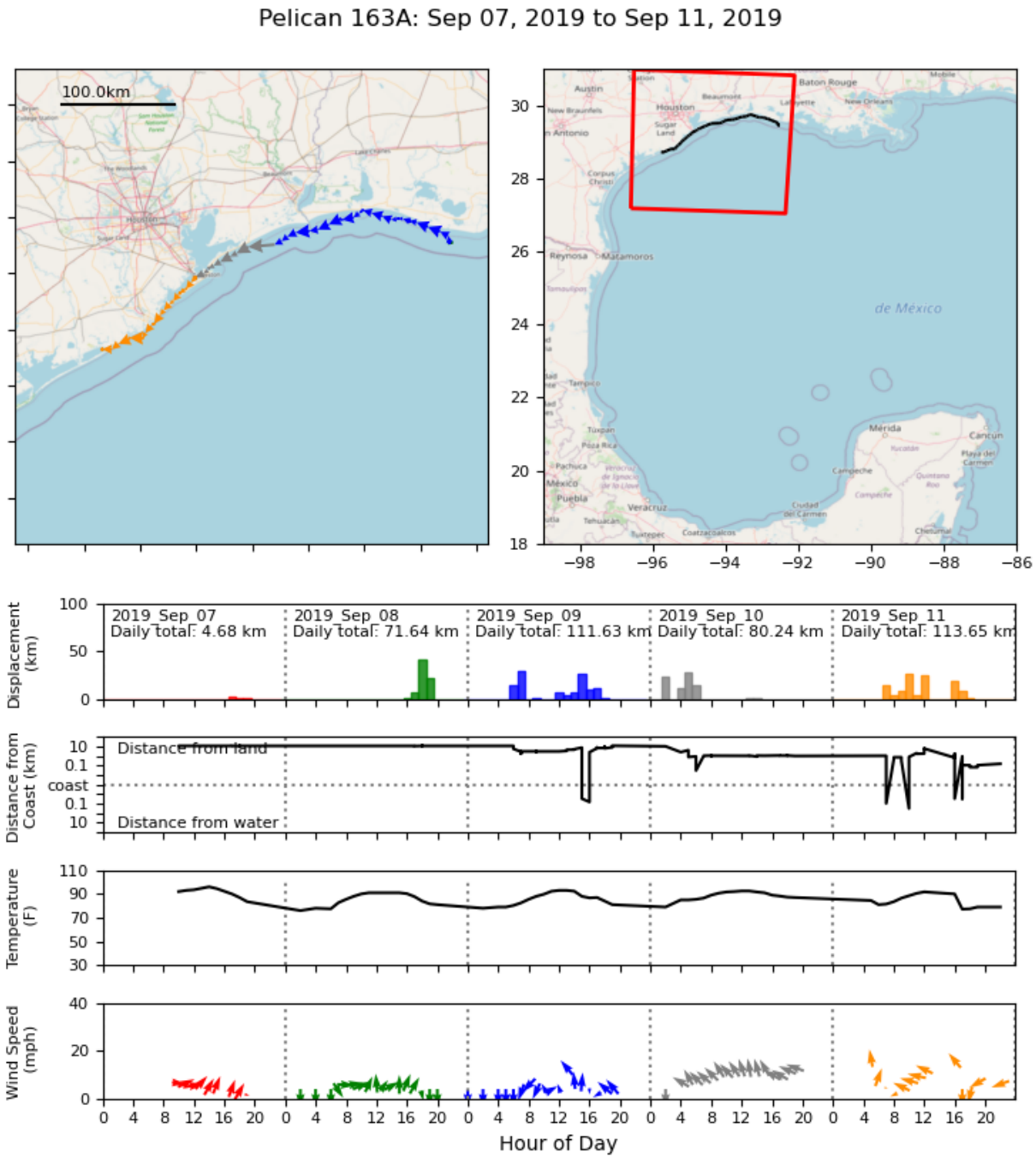

Figure 557 - Maps and graphs showing movements of 163A between 2019-09-07 and 2019-09-10 inclusive.

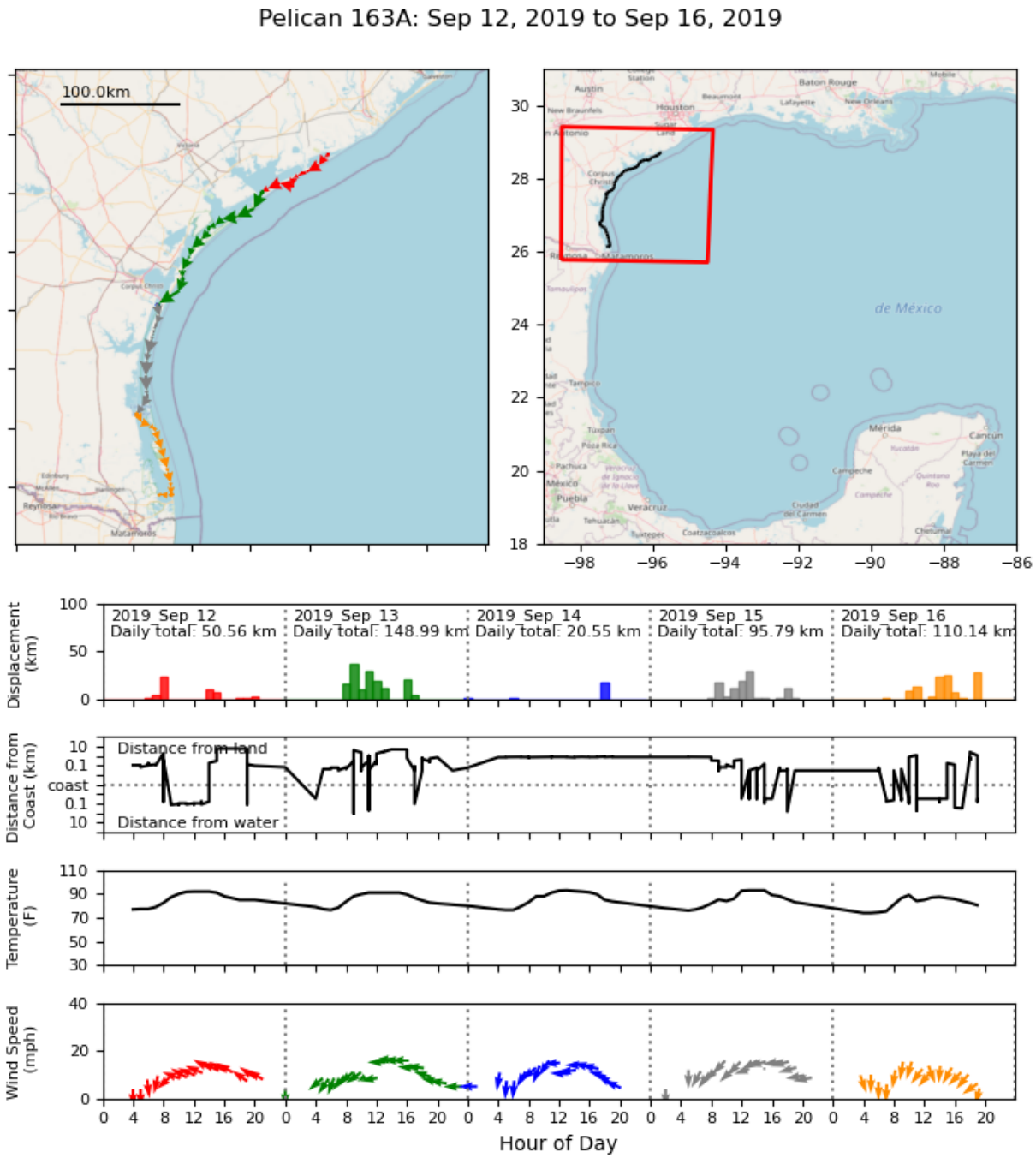

Figure 558 - Maps and graphs showing movements of 163A between 2019-09-12 and 2019-09-15 inclusive.

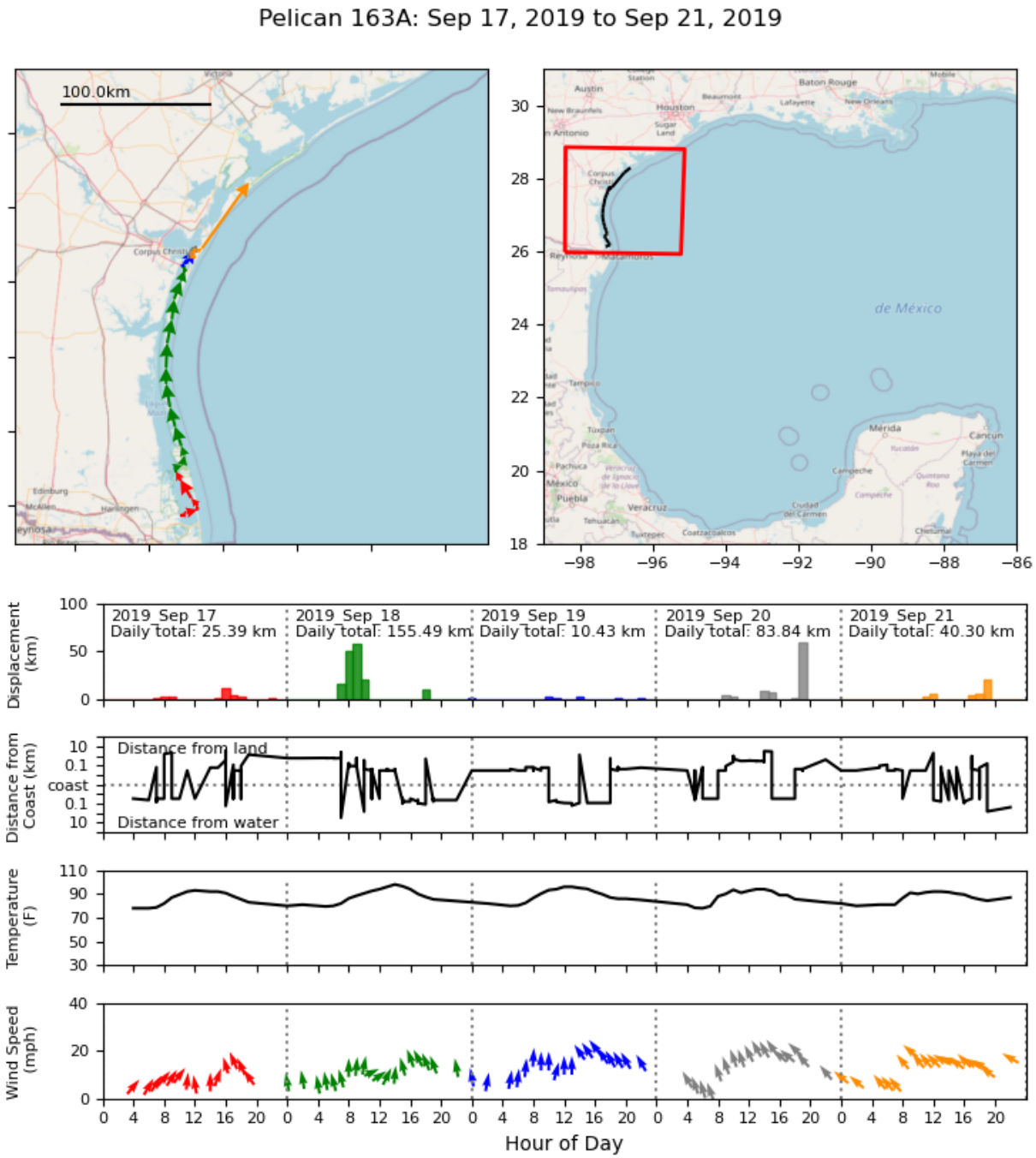

Figure 559 - Maps and graphs showing movements of 163A between 2019-09-17 and 2019-09-20 inclusive.

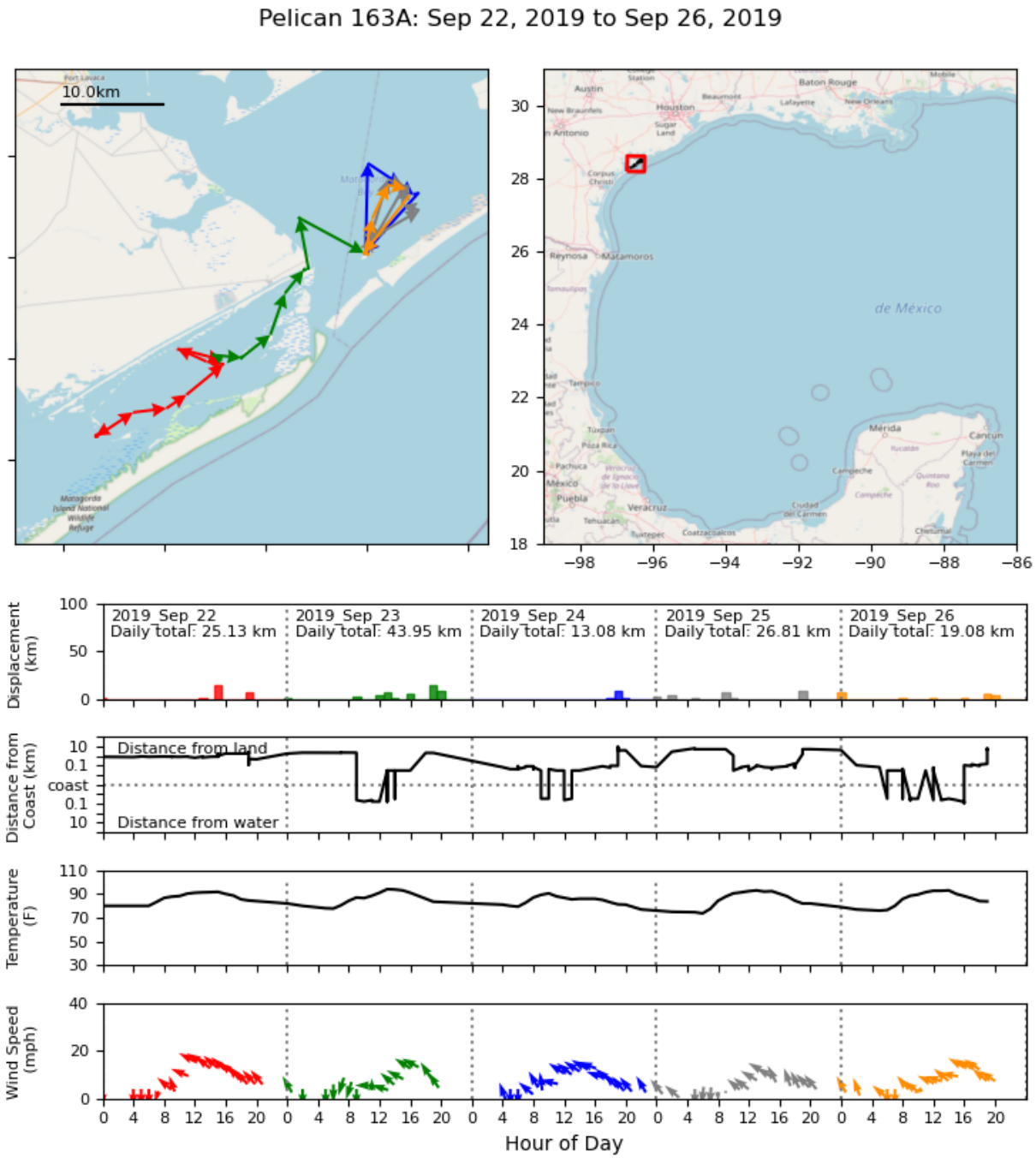

Figure 560 - Maps and graphs showing movements of 163A between 2019-09-22 and 2019-09-25 inclusive.

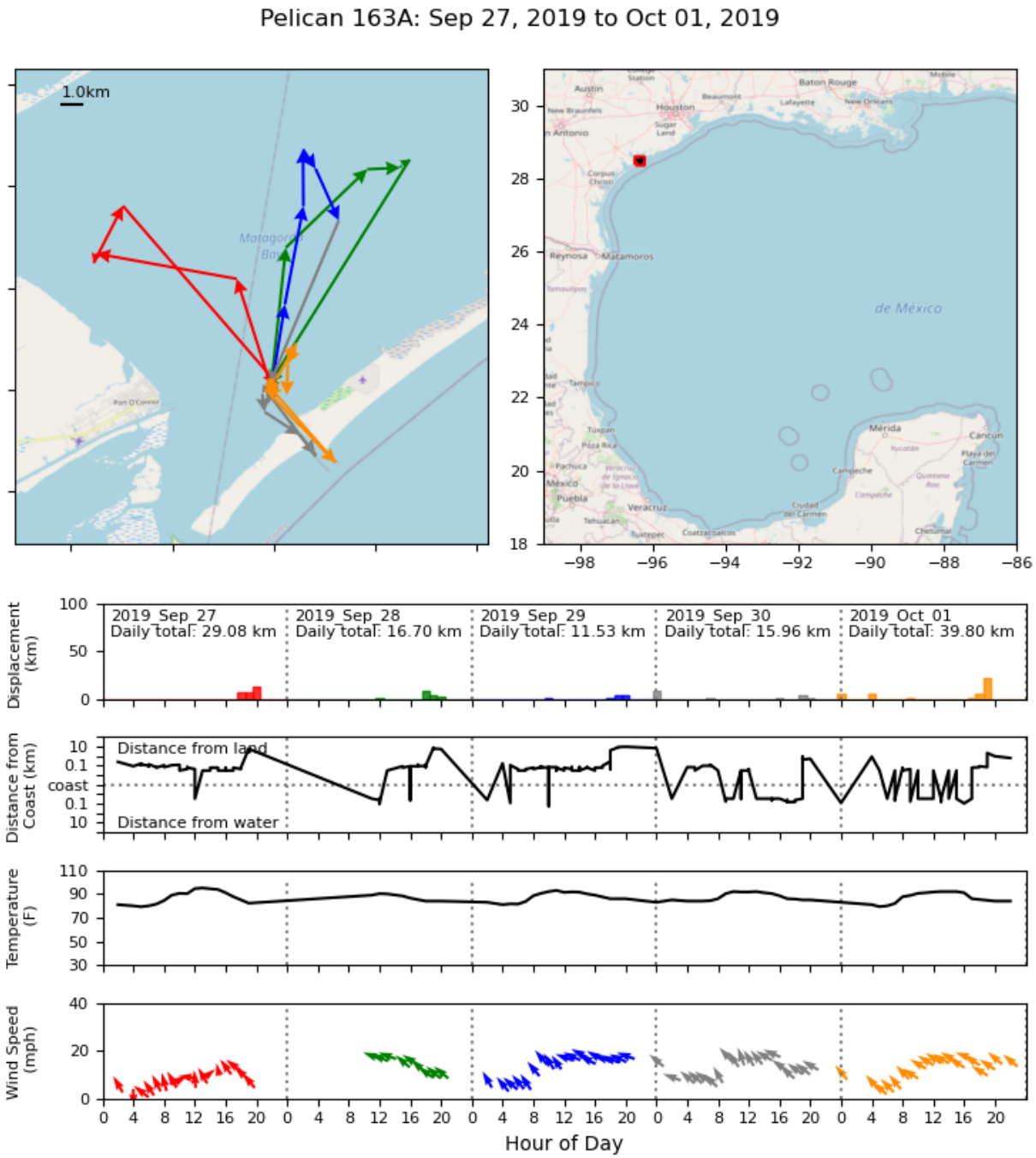

Figure 561 - Maps and graphs showing movements of 163A between 2019-09-27 and 2019-09-30 inclusive.

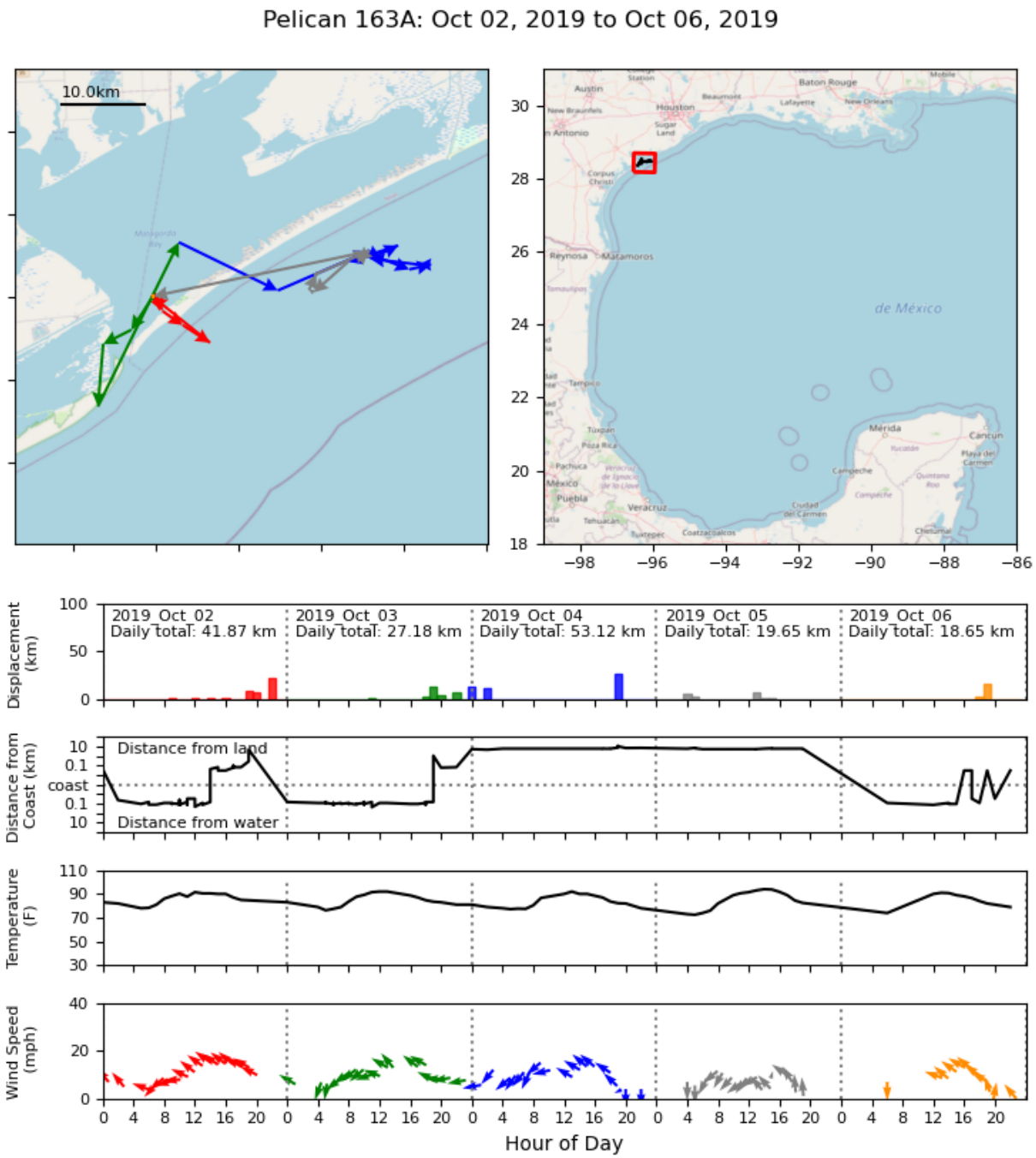

Figure 562 - Maps and graphs showing movements of 163A between 2019-10-02 and 2019-10-05 inclusive.

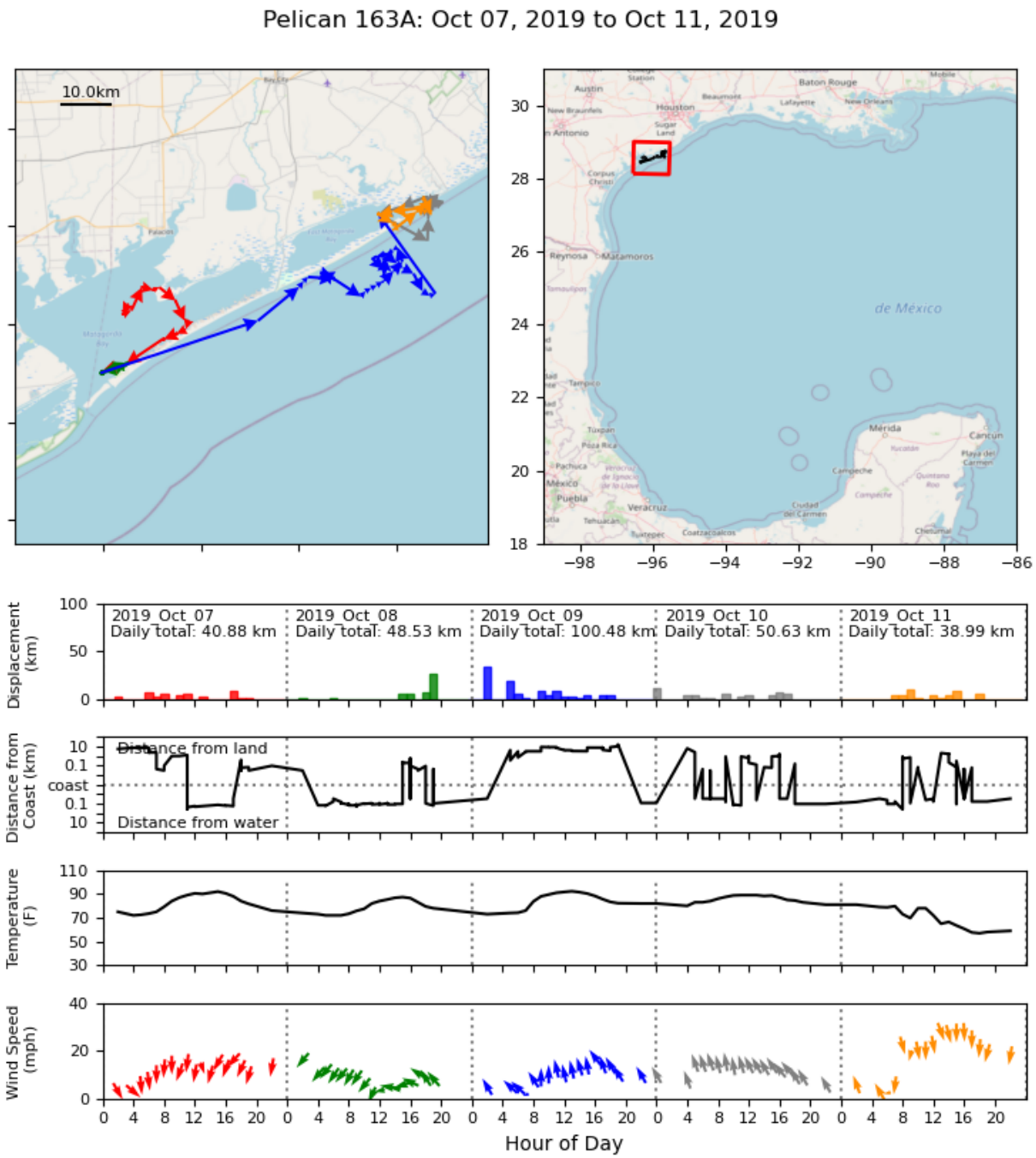

Figure 563 - Maps and graphs showing movements of 163A between 2019-10-07 and 2019-10-10 inclusive.

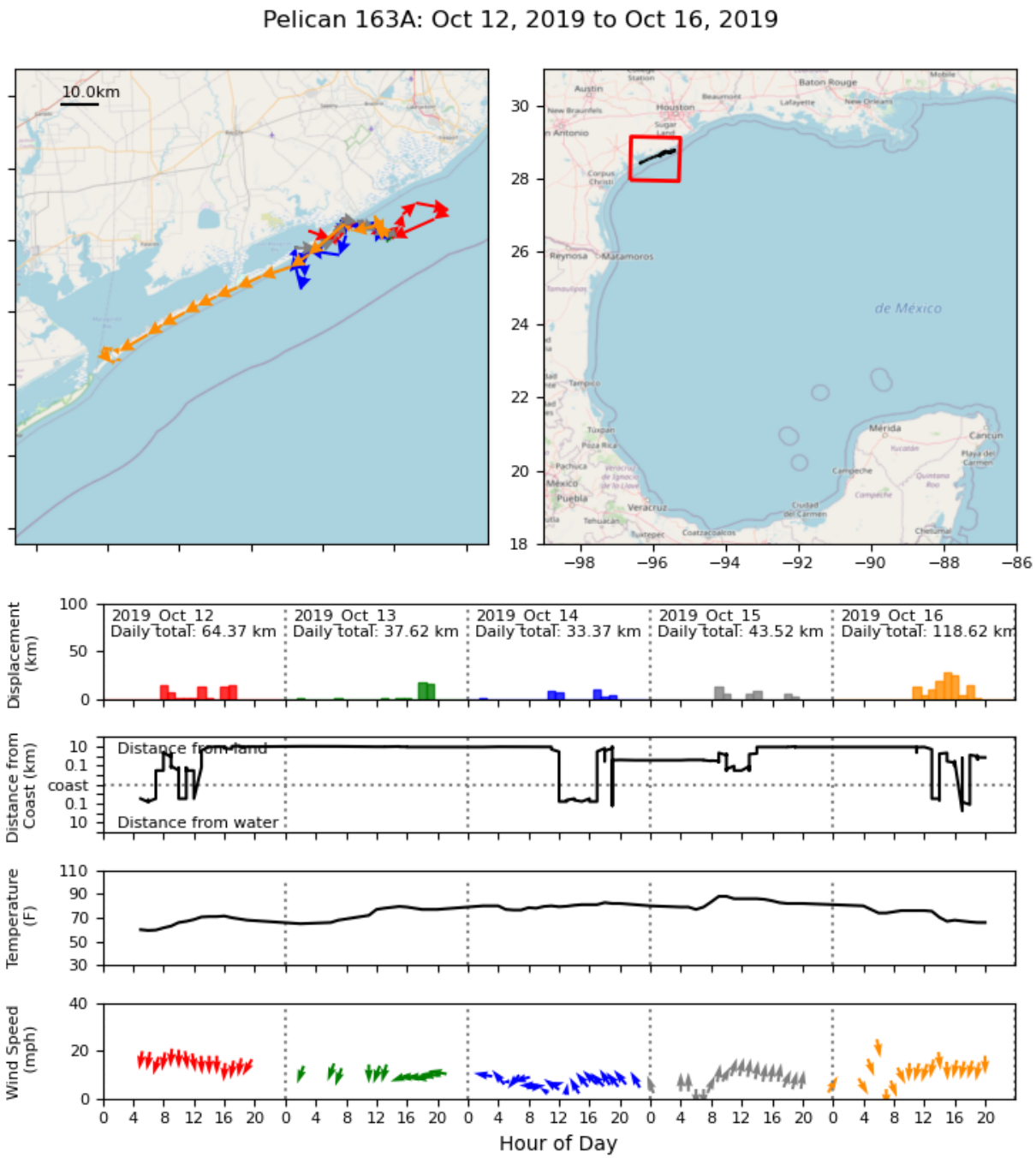

Figure 564 - Maps and graphs showing movements of 163A between 2019-10-12 and 2019-10-15 inclusive.

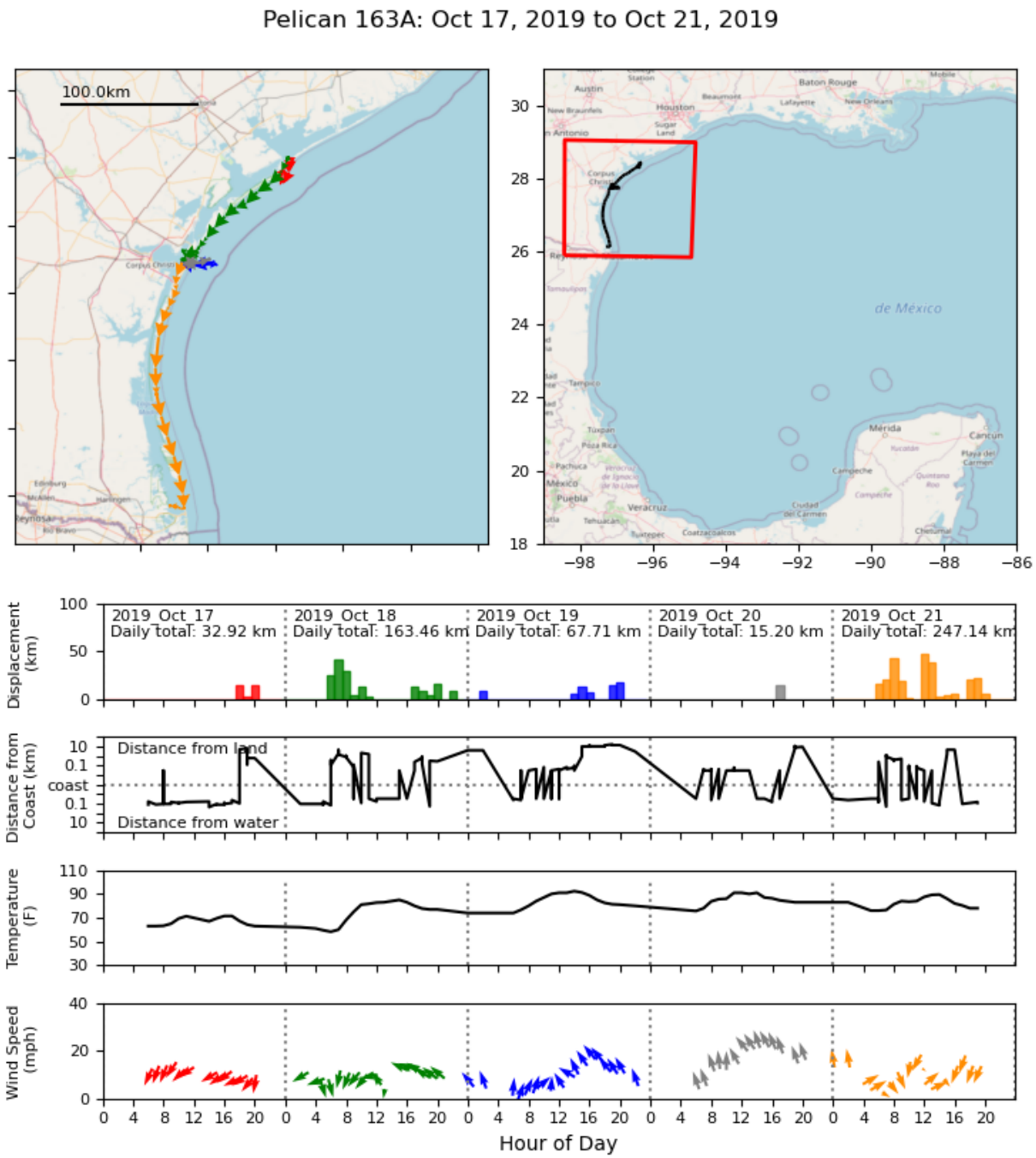

Figure 565 - Maps and graphs showing movements of 163A between 2019-10-17 and 2019-10-20 inclusive.

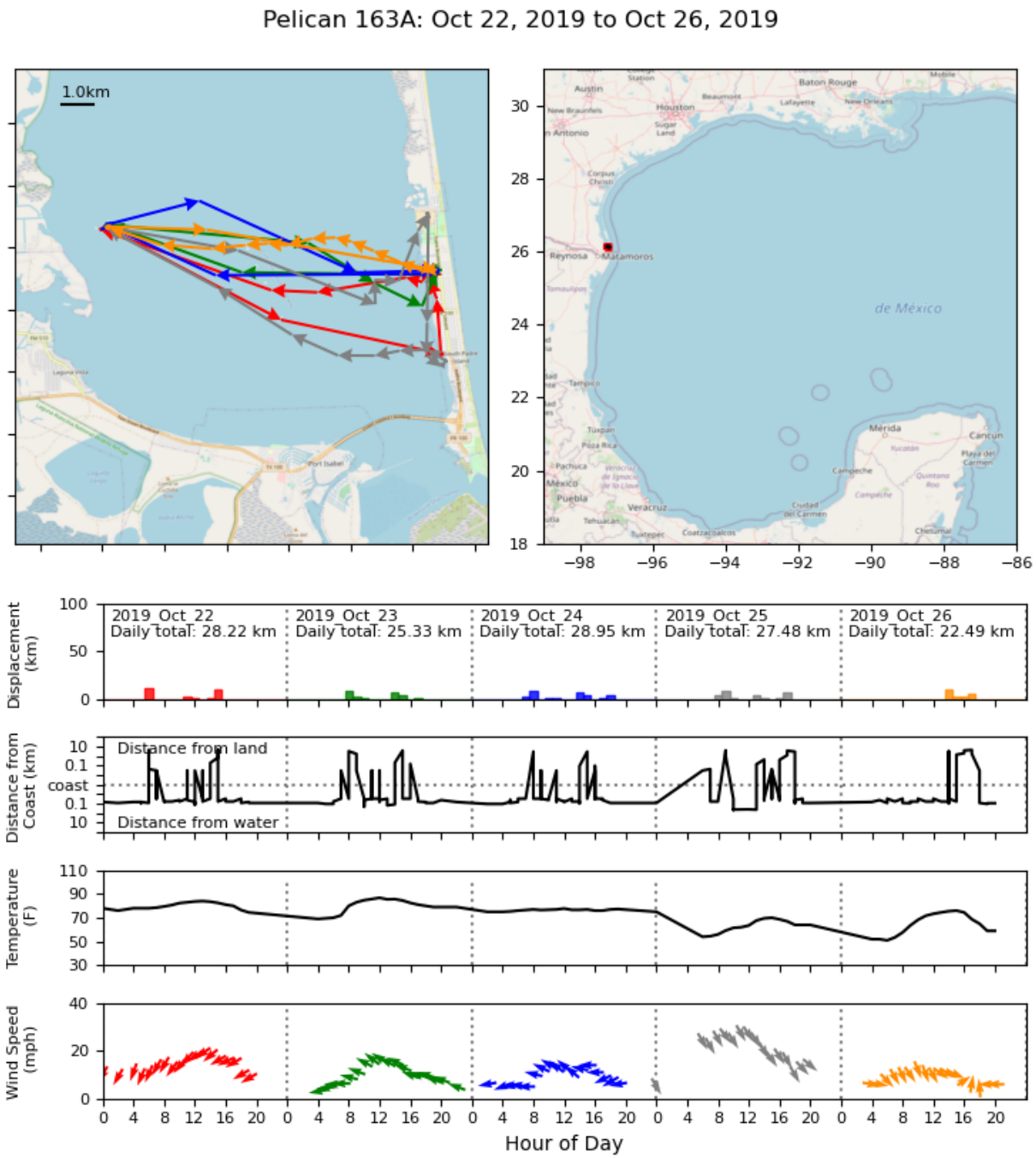

Figure 566 - Maps and graphs showing movements of 163A between 2019-10-22 and 2019-10-25 inclusive.

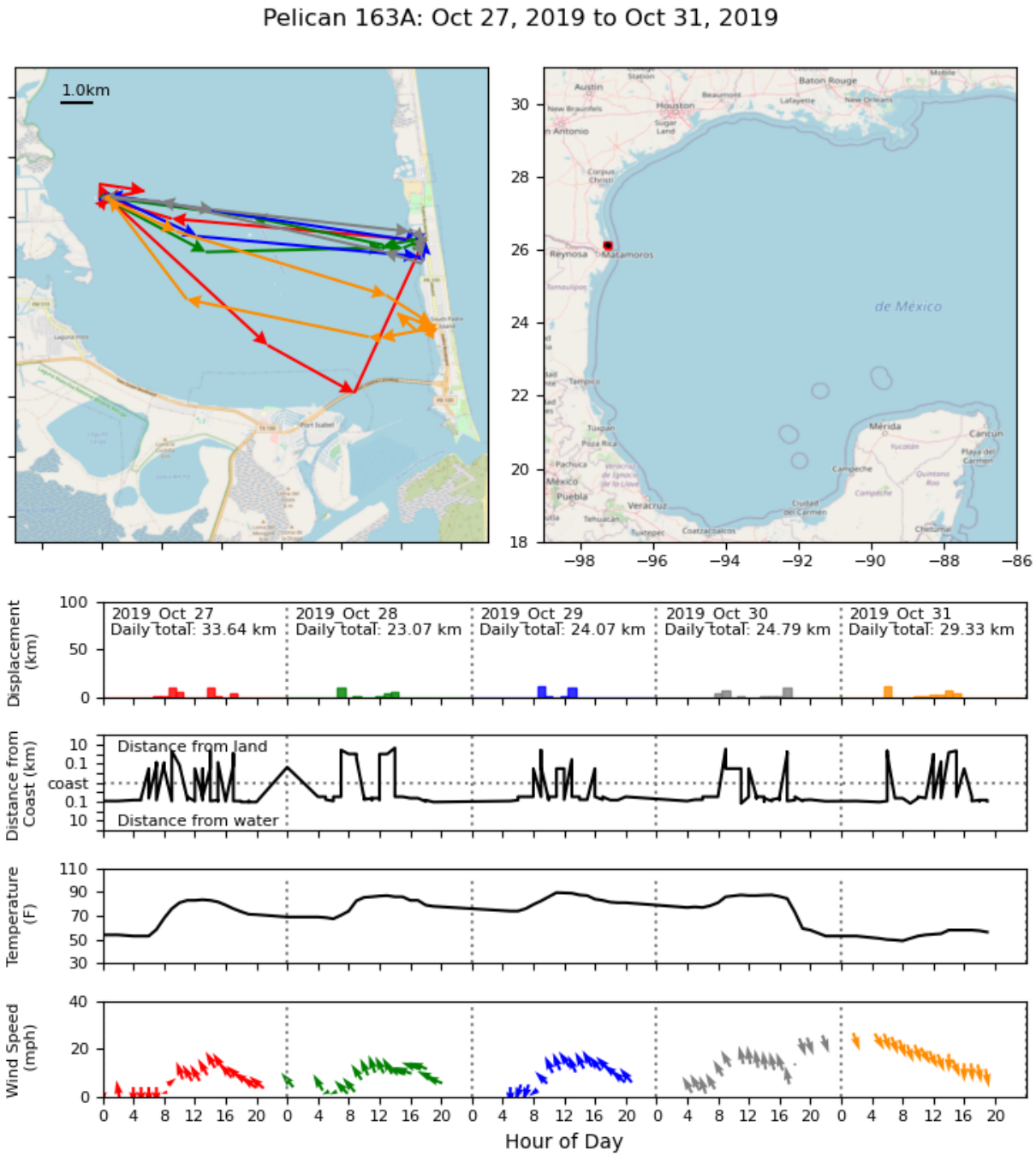

Figure 567 - Maps and graphs showing movements of 163A between 2019-10-27 and 2019-10-30 inclusive.

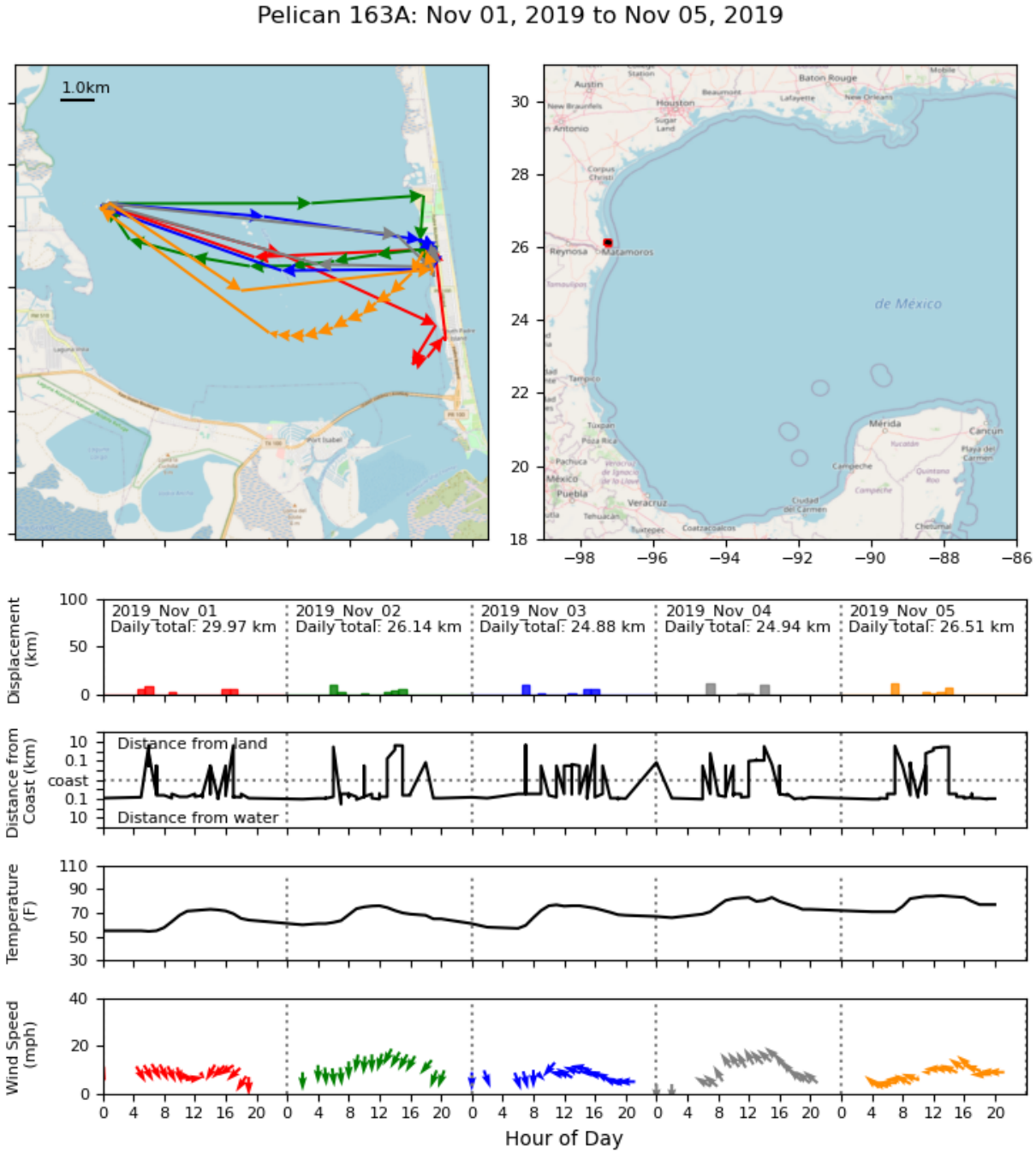

Figure 568 - Maps and graphs showing movements of 163A between 2019-11-01 and 2019-11-04 inclusive.

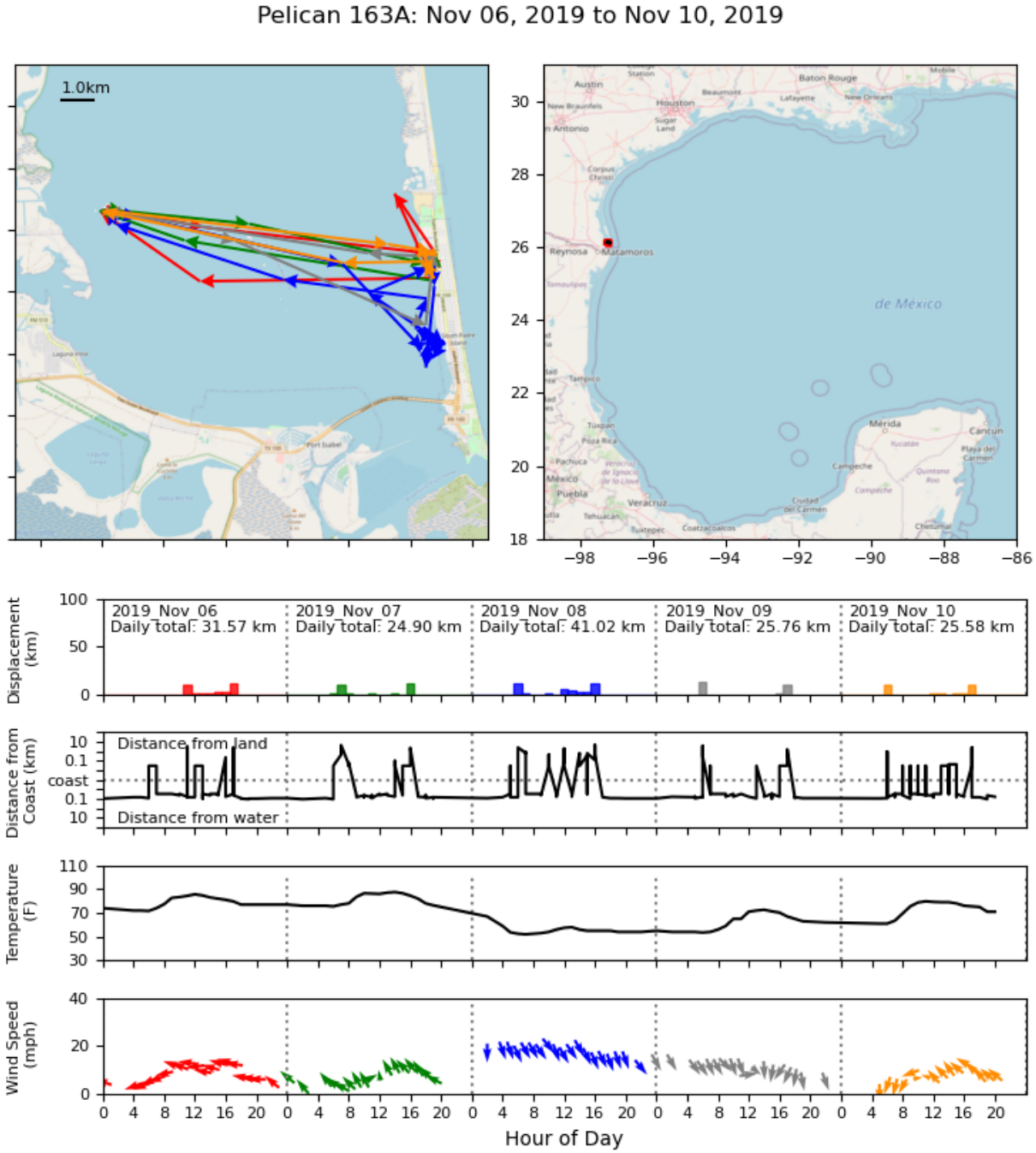

Figure 569 - Maps and graphs showing movements of 163A between 2019-11-06 and 2019-11-09 inclusive.

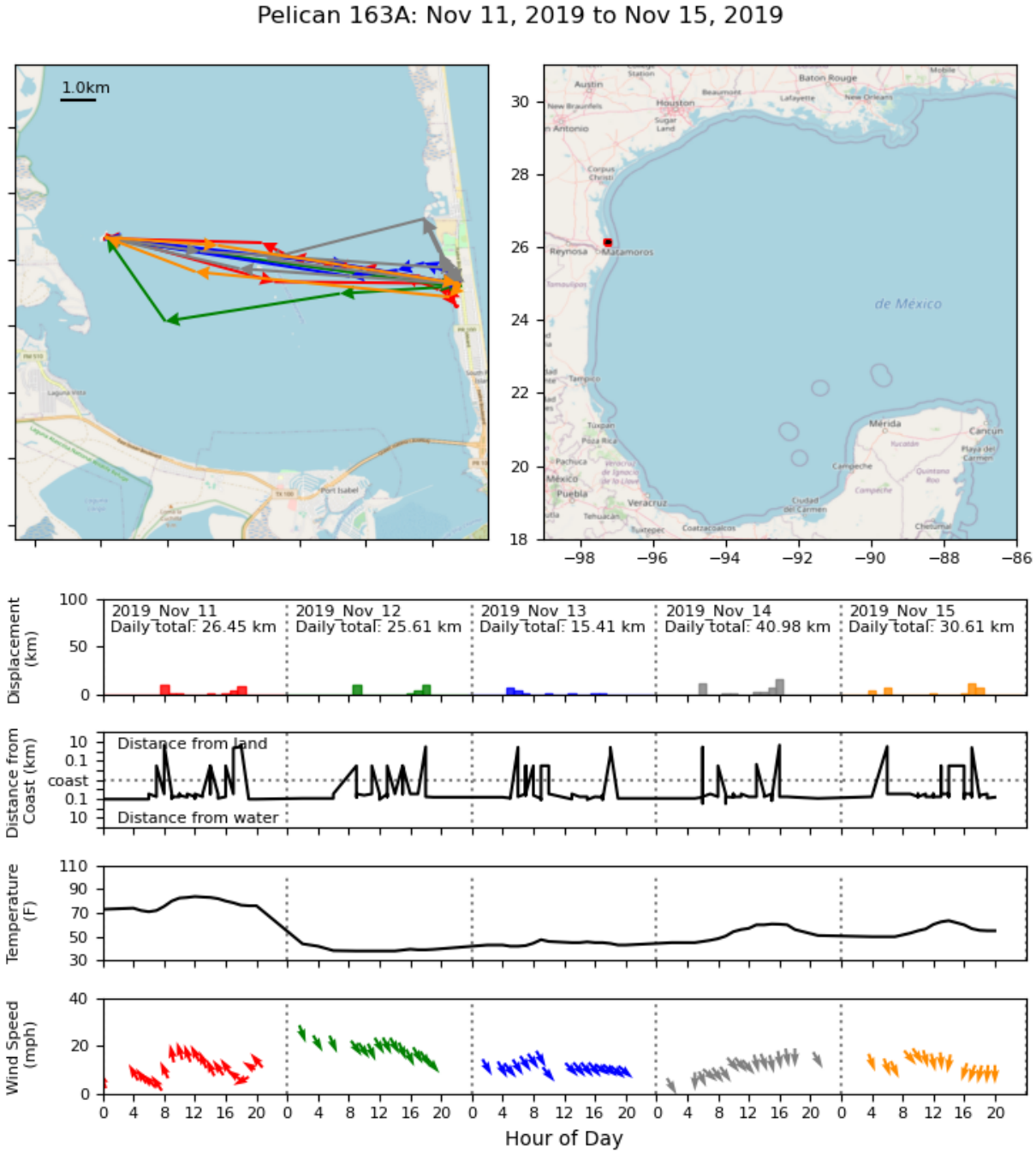

Figure 570 - Maps and graphs showing movements of 163A between 2019-11-11 and 2019-11-14 inclusive.

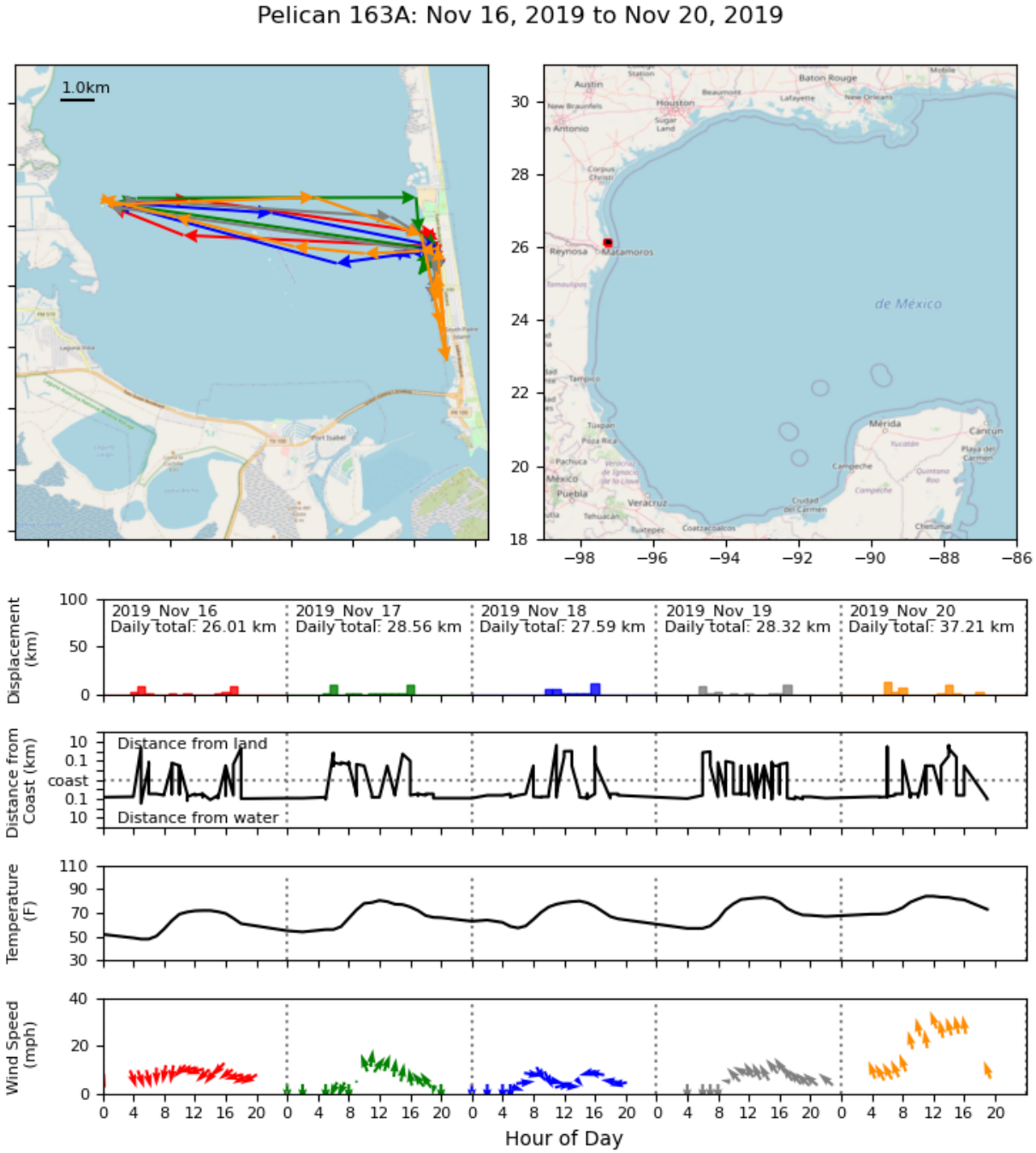

Figure 571 - Maps and graphs showing movements of 163A between 2019-11-16 and 2019-11-19 inclusive.

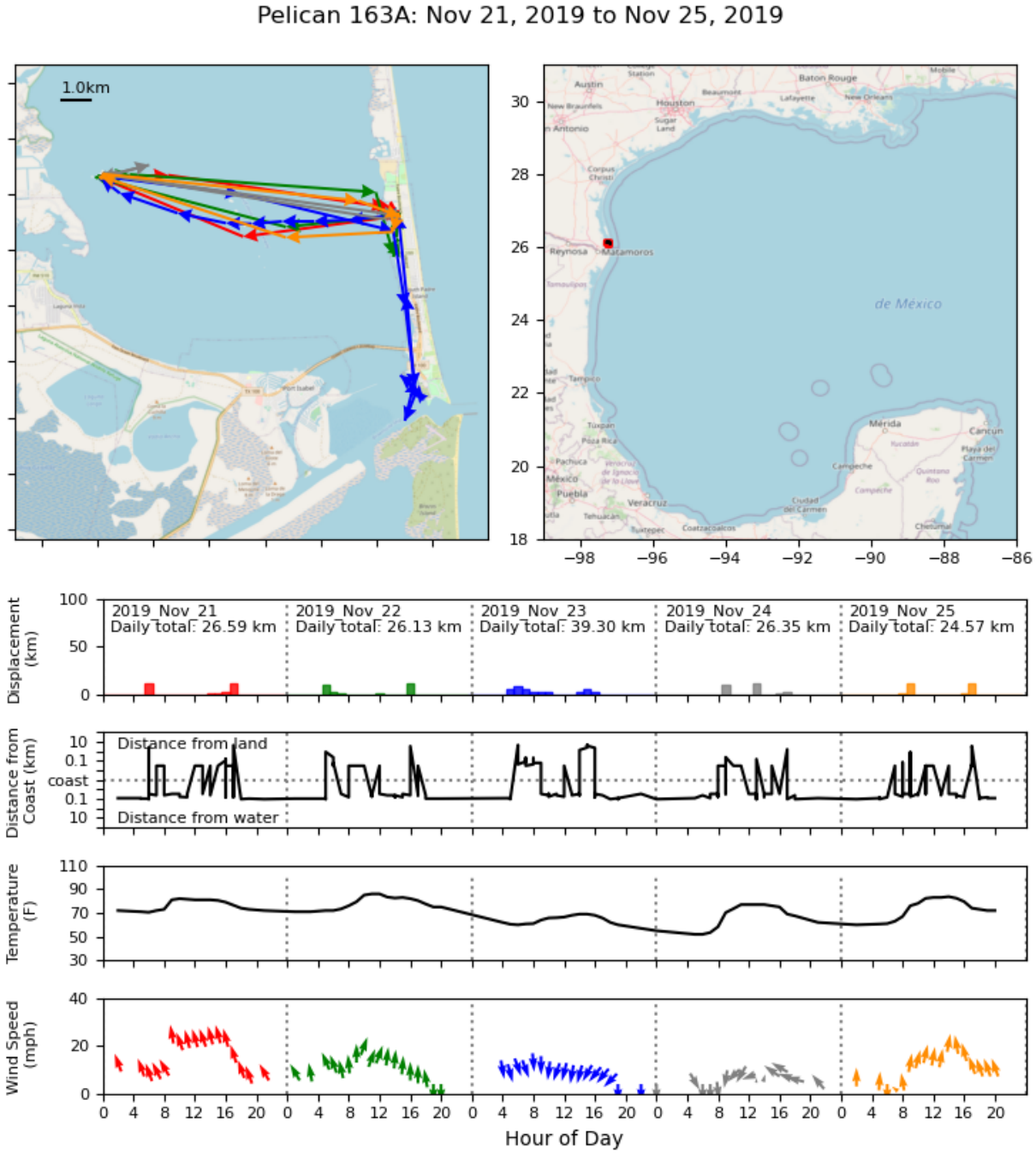

Figure 572 - Maps and graphs showing movements of 163A between 2019-11-21 and 2019-11-24 inclusive.

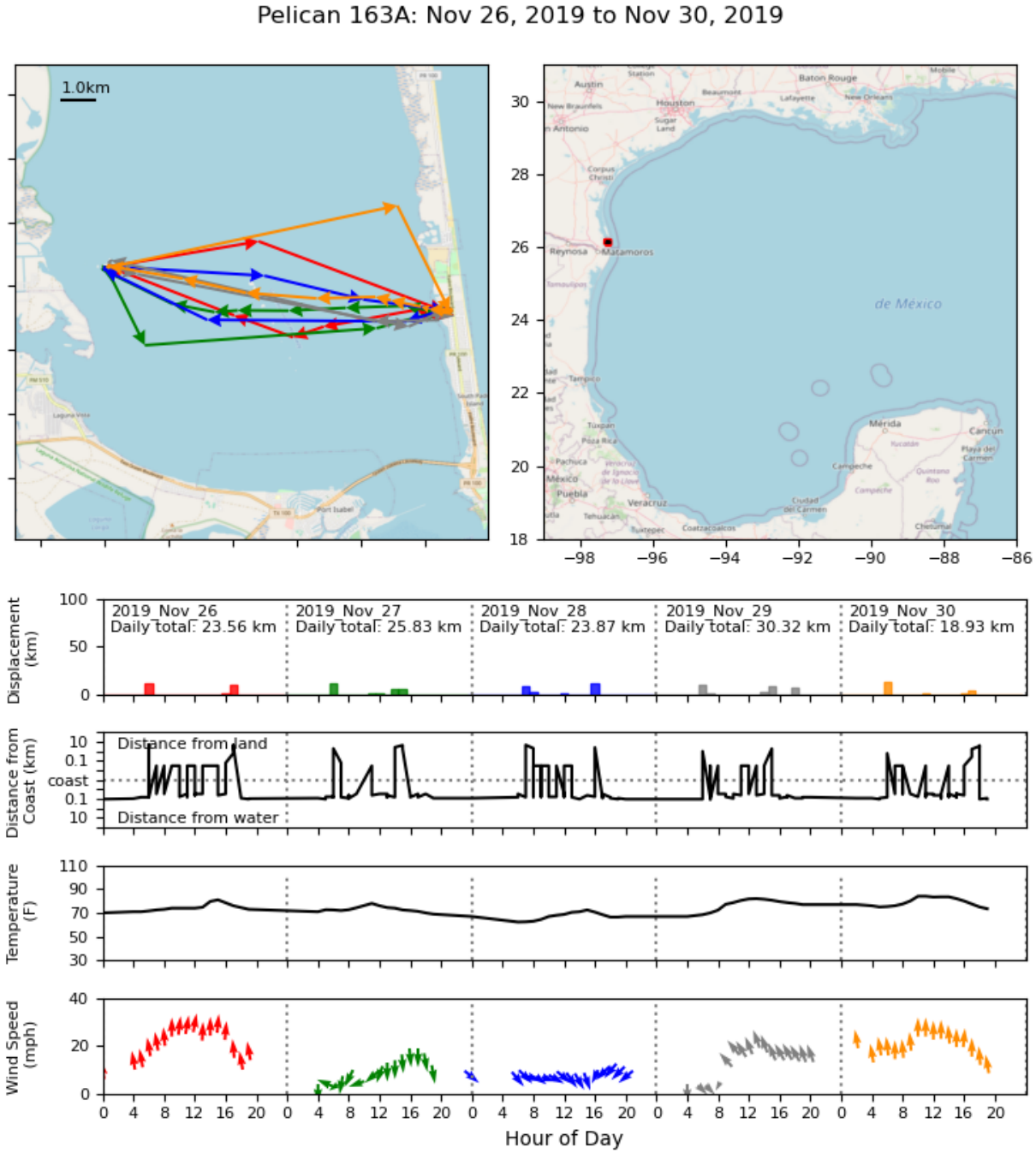

Figure 573 - Maps and graphs showing movements of 163A between 2019-11-26 and 2019-11-29 inclusive.

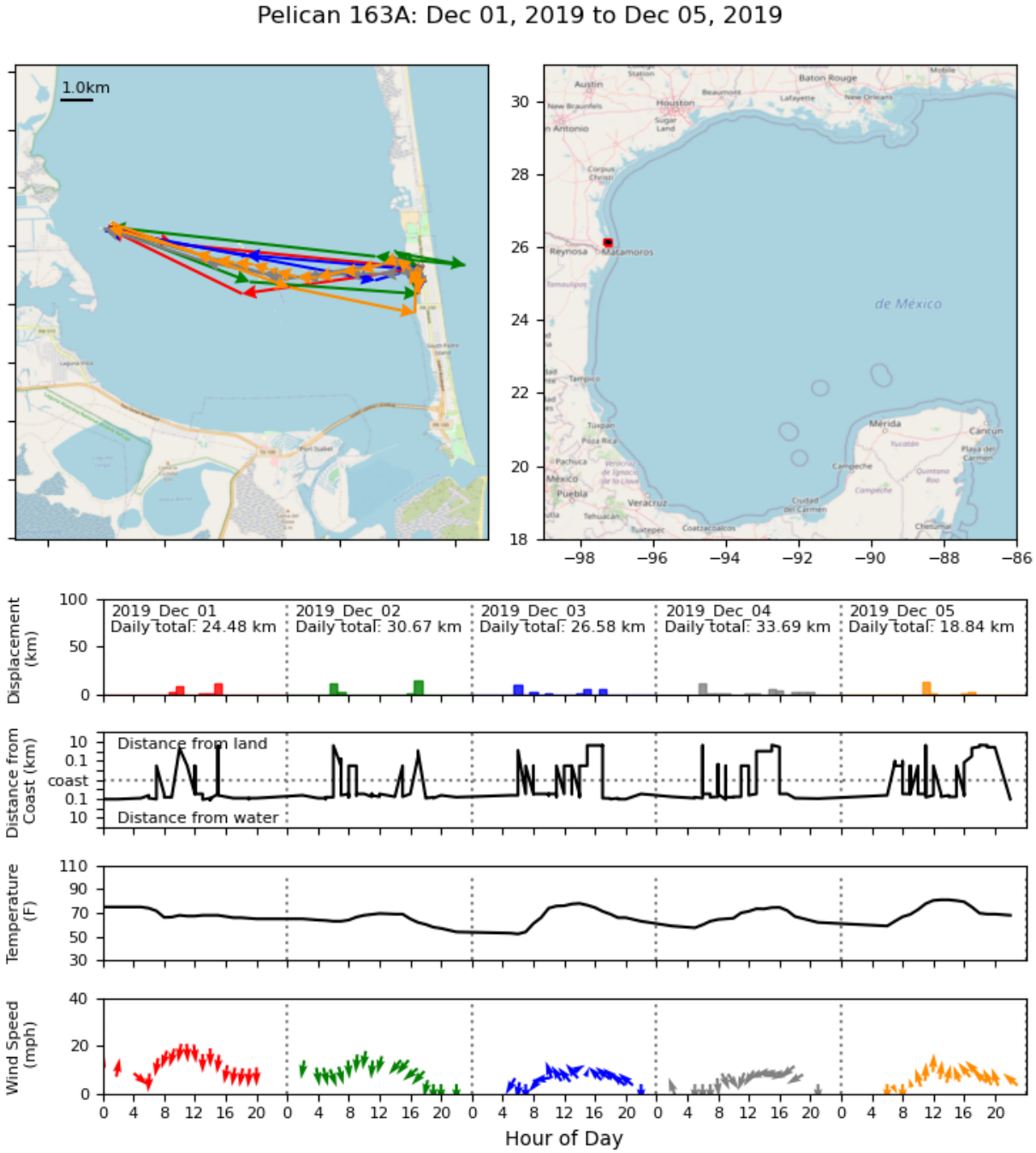

Figure 574 - Maps and graphs showing movements of 163A between 2019-12-01 and 2019-12-04 inclusive.

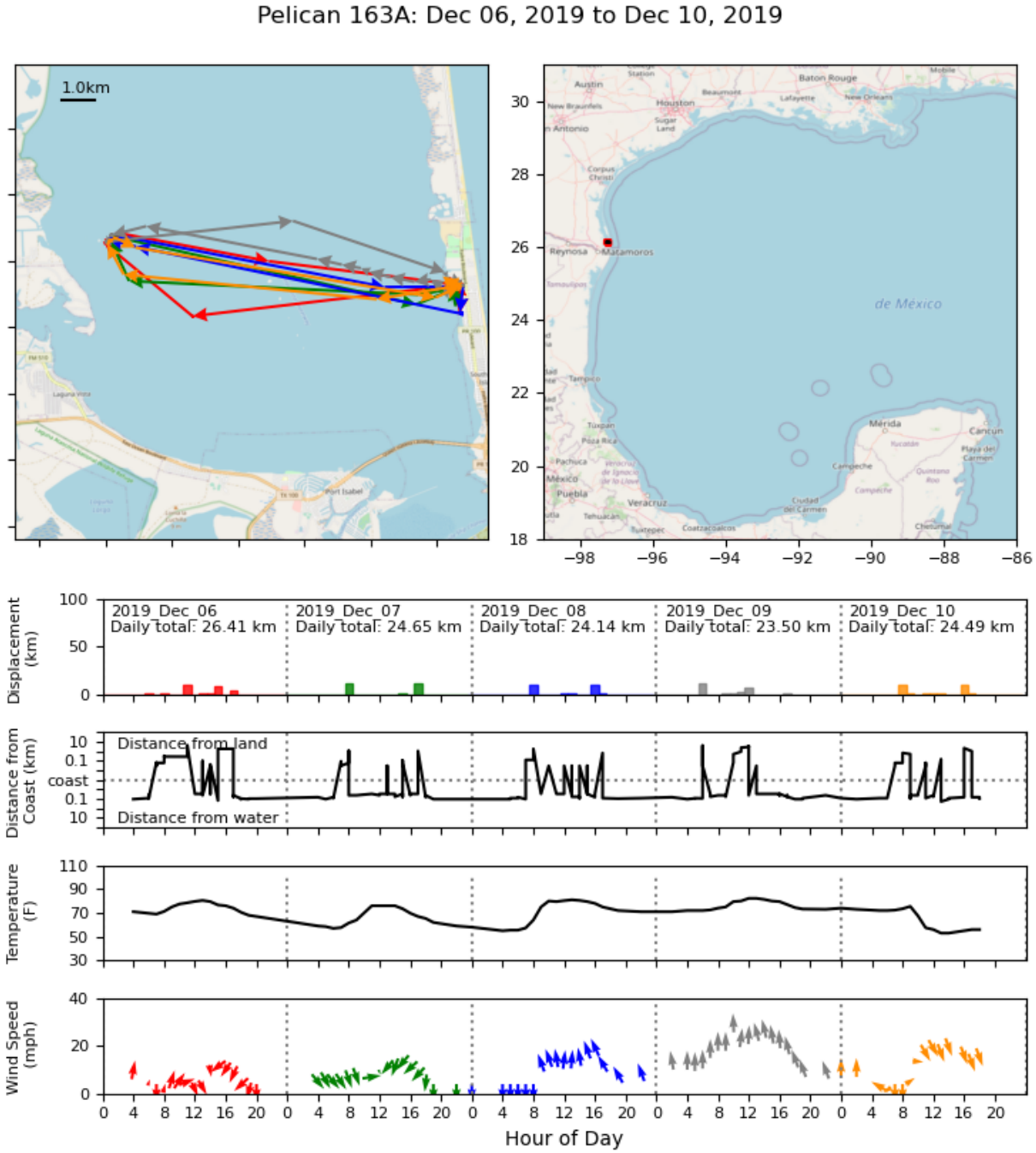

Figure 575 - Maps and graphs showing movements of 163A between 2019-12-06 and 2019-12-09 inclusive.

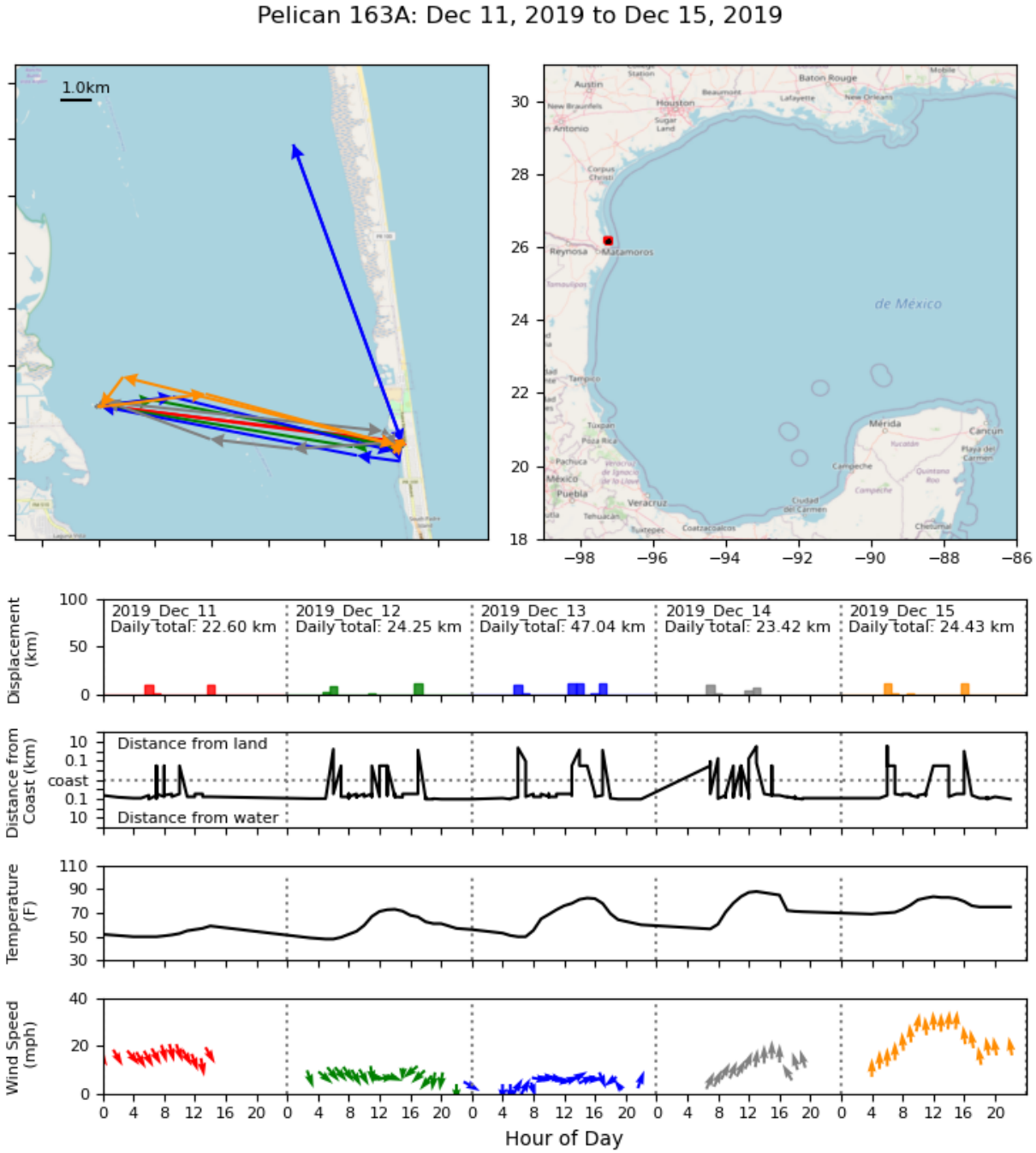

Figure 576 - Maps and graphs showing movements of 163A between 2019-12-11 and 2019-12-14 inclusive.

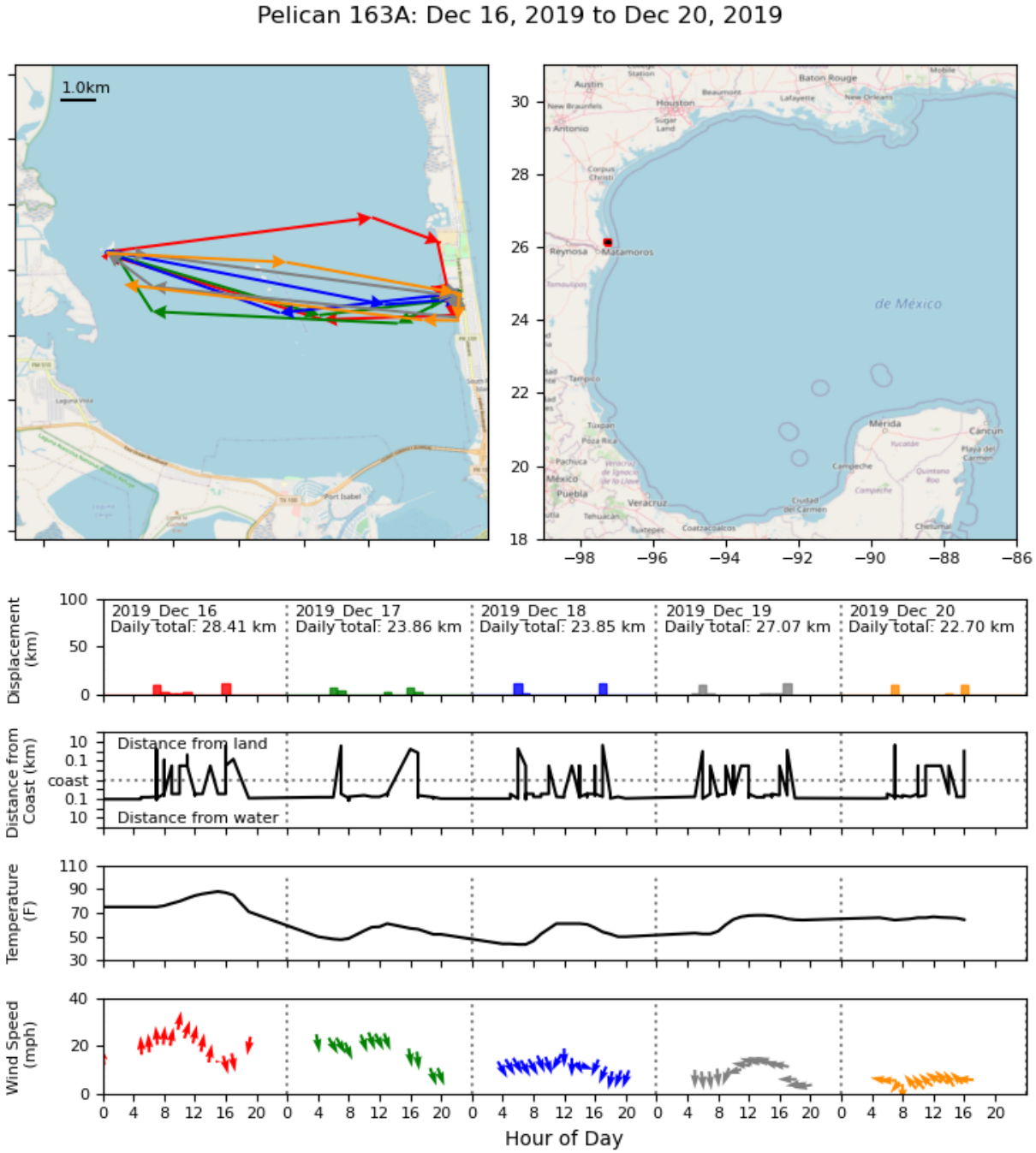

Figure 577 - Maps and graphs showing movements of 163A between 2019-12-16 and 2019-12-19 inclusive.

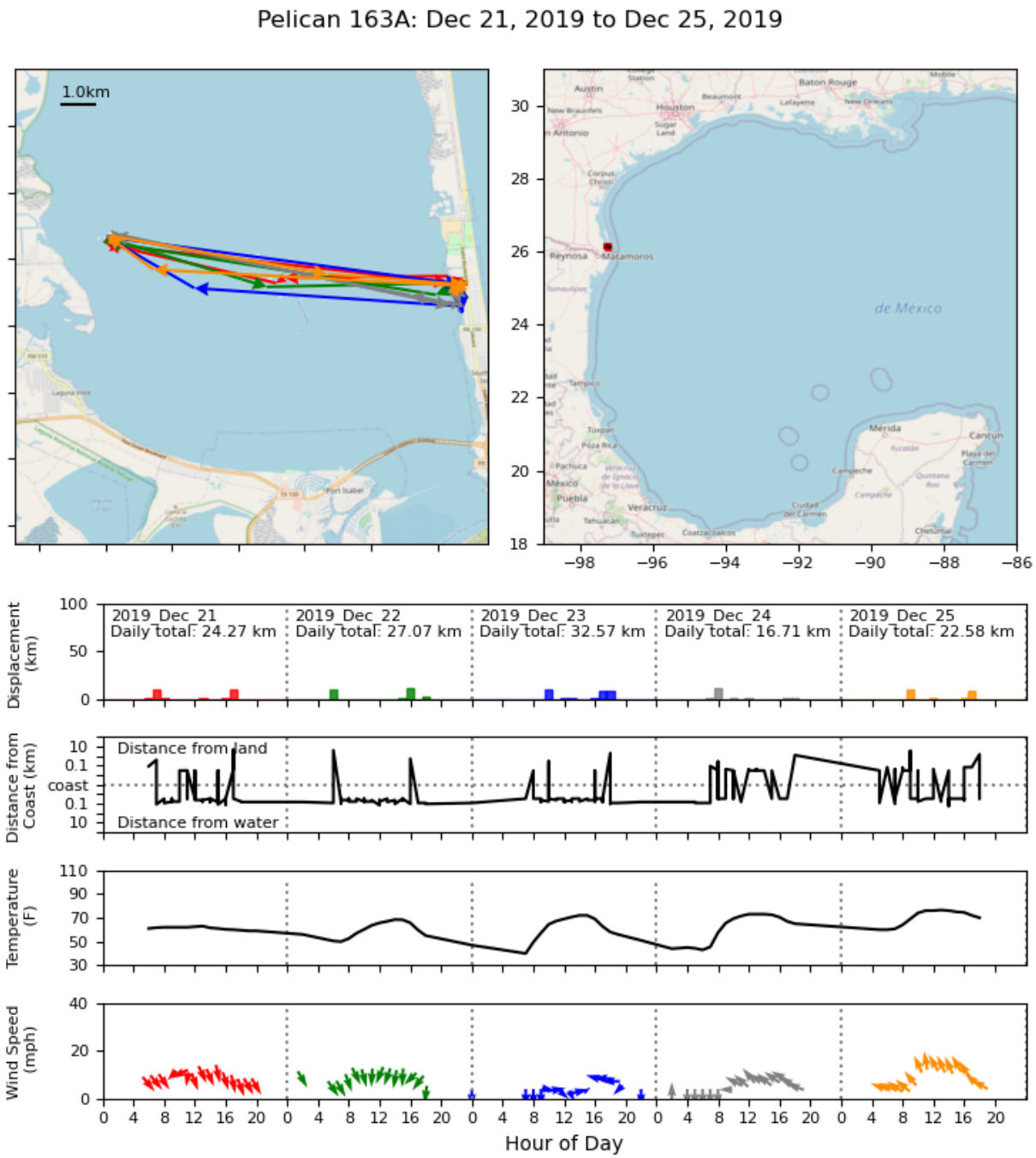

Figure 578 - Maps and graphs showing movements of 163A between 2019-12-21 and 2019-12-24 inclusive.

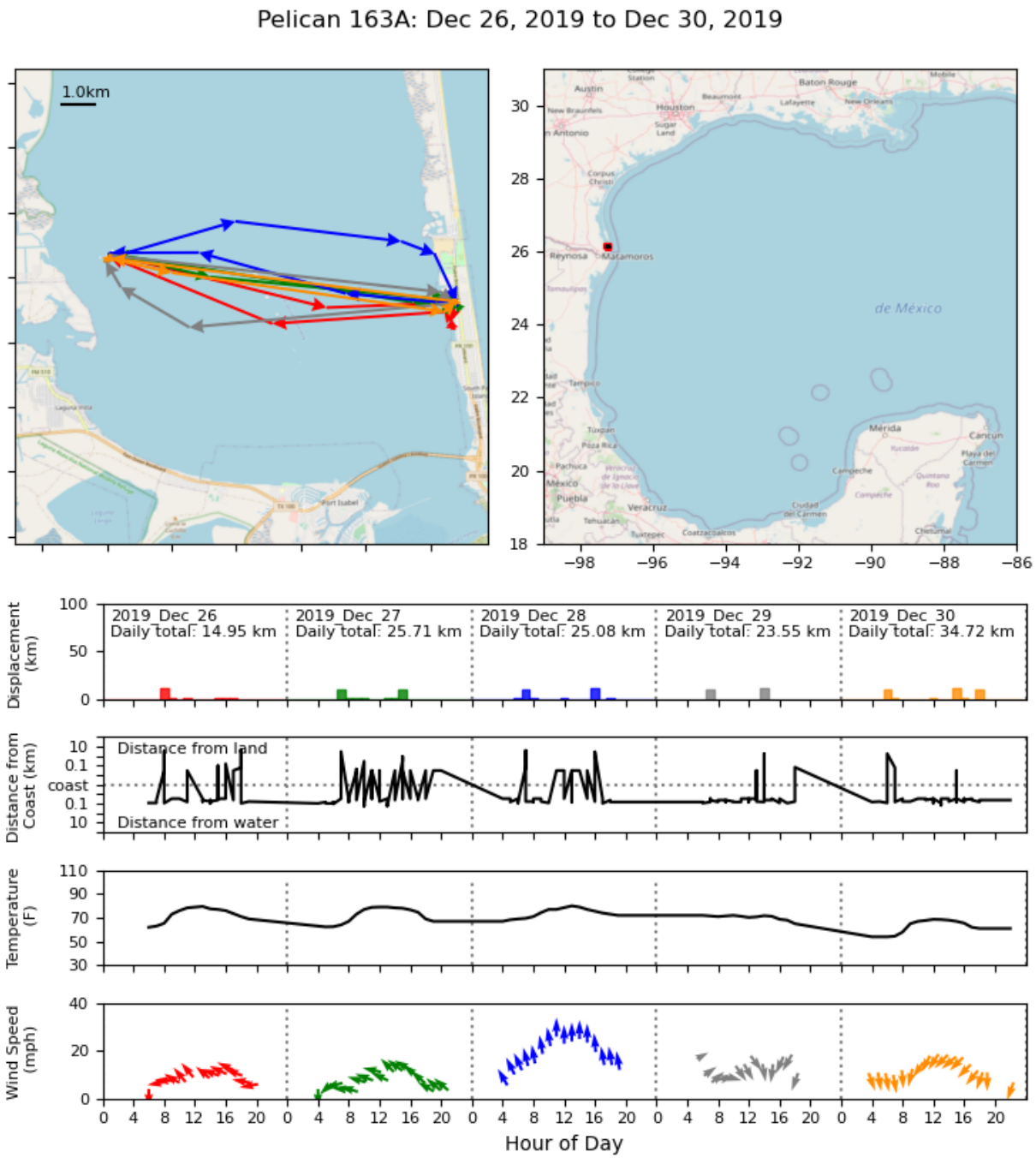

Figure 579 - Maps and graphs showing movements of 163A between 2019-12-26 and 2019-12-29 inclusive.

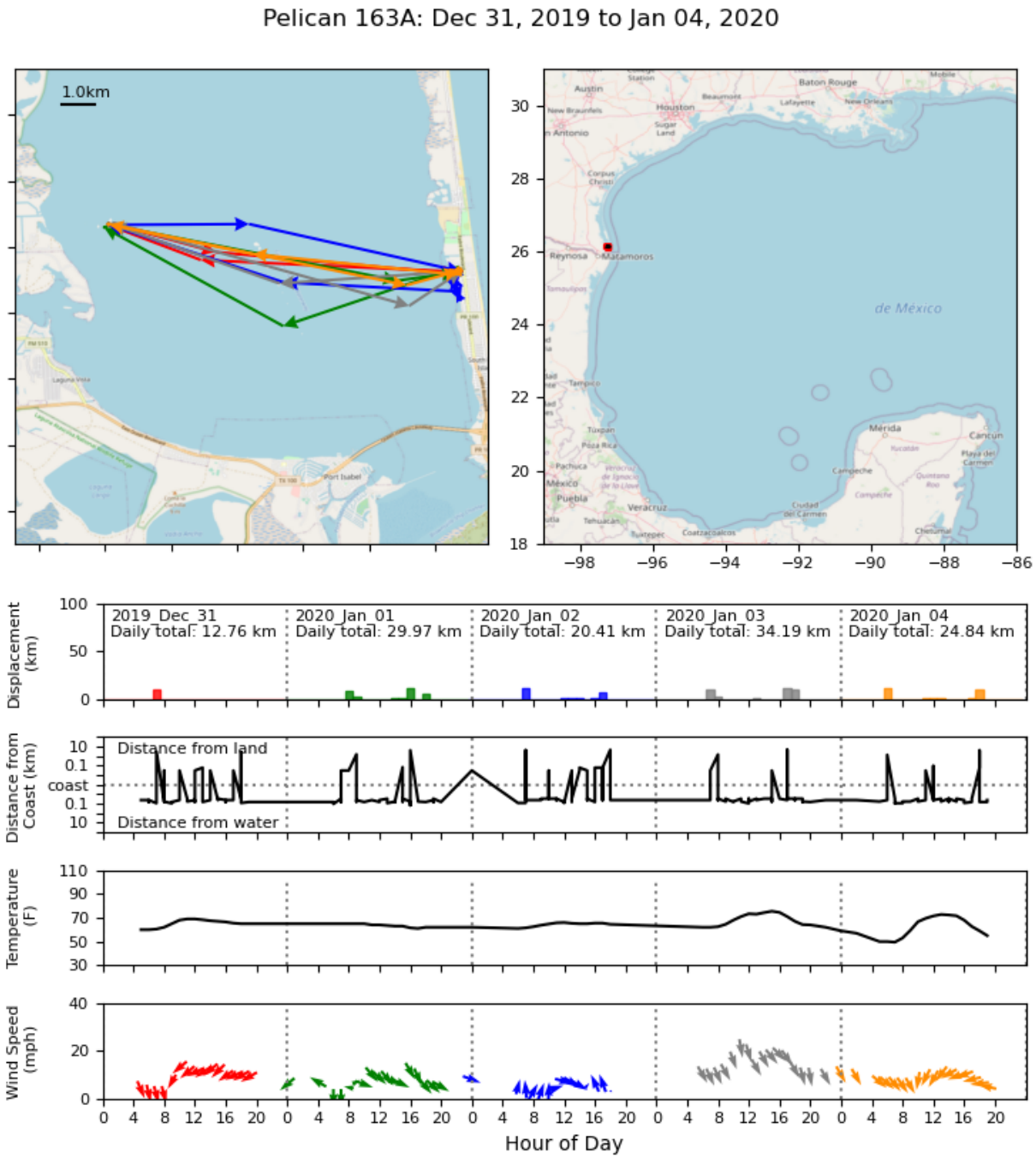

Figure 580 - Maps and graphs showing movements of 163A between 2019-12-31 and 2020-01-03 inclusive.

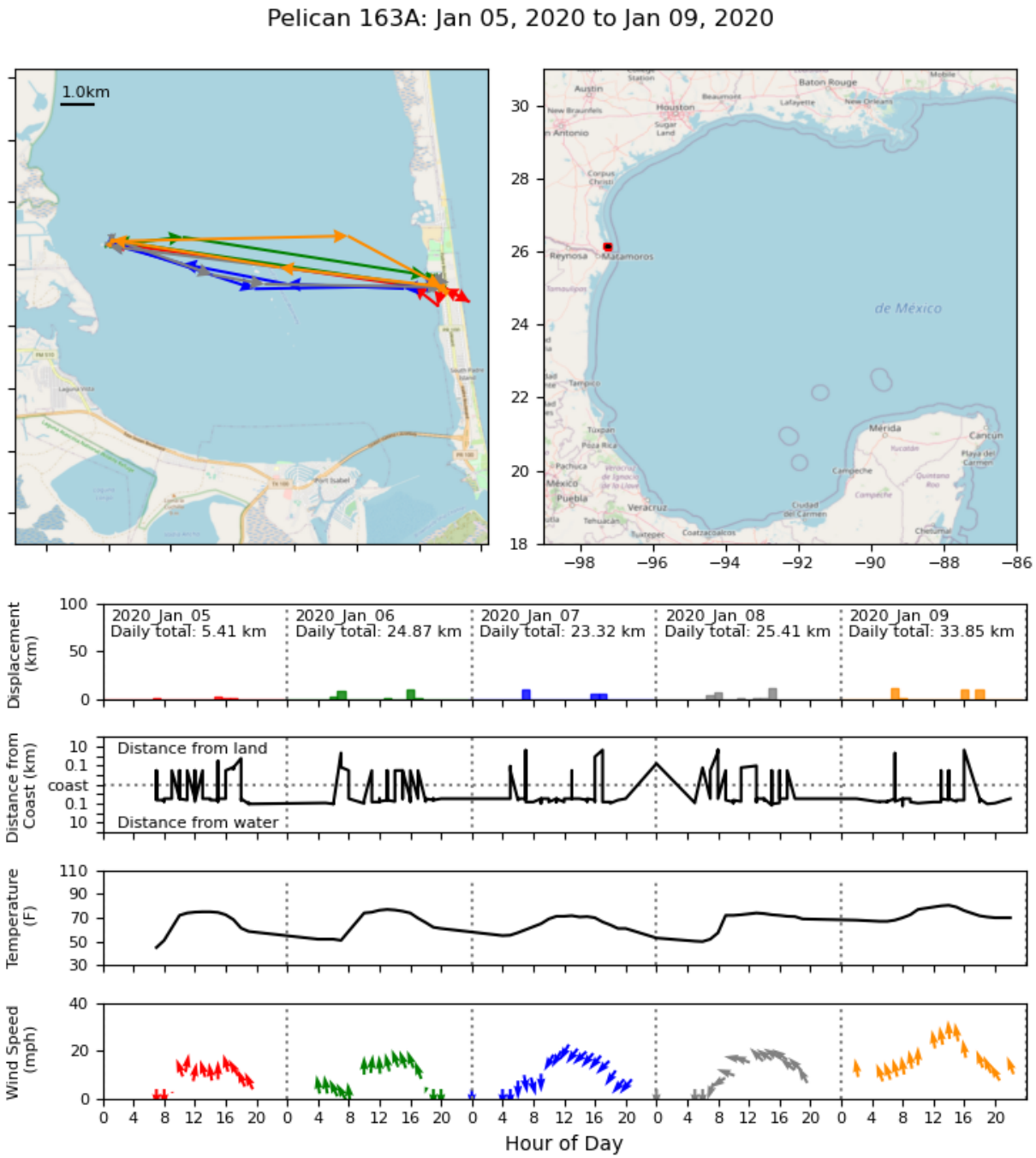

Figure 581 - Maps and graphs showing movements of 163A between 2020-01-05 and 2020-01-08 inclusive.

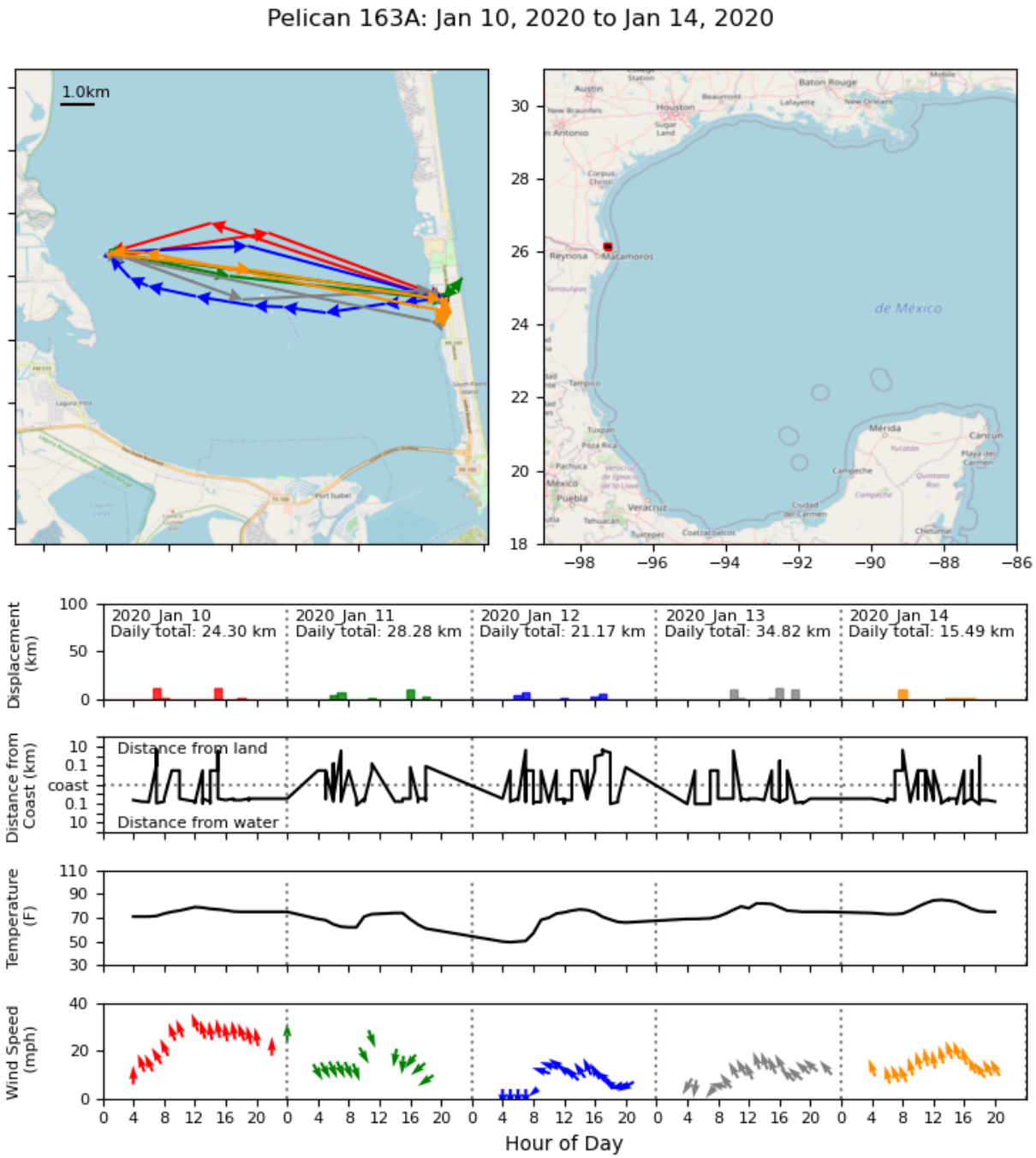

Figure 582 - Maps and graphs showing movements of 163A between 2020-01-10 and 2020-01-13 inclusive.

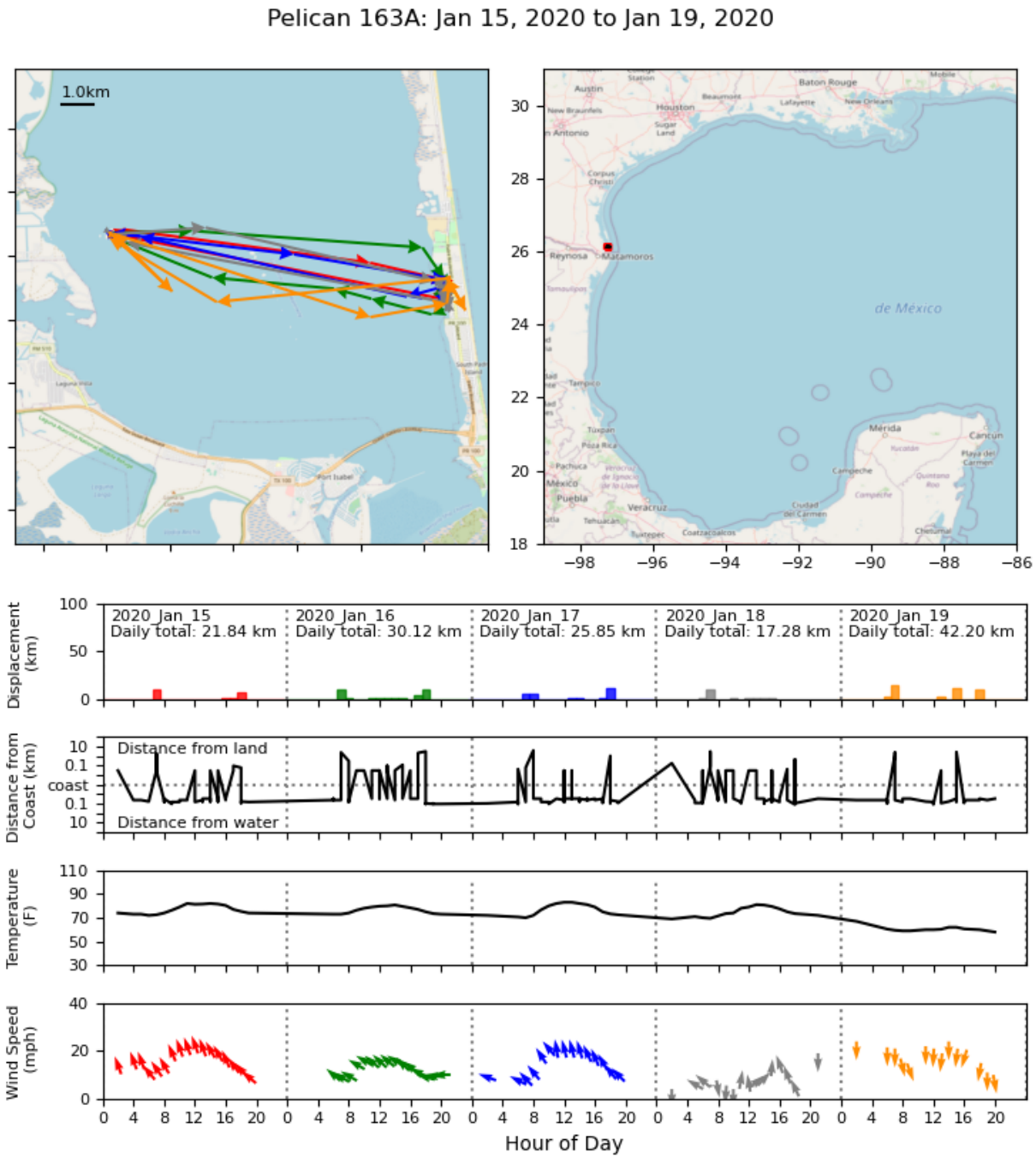

Figure 583 - Maps and graphs showing movements of 163A between 2020-01-15 and 2020-01-18 inclusive.

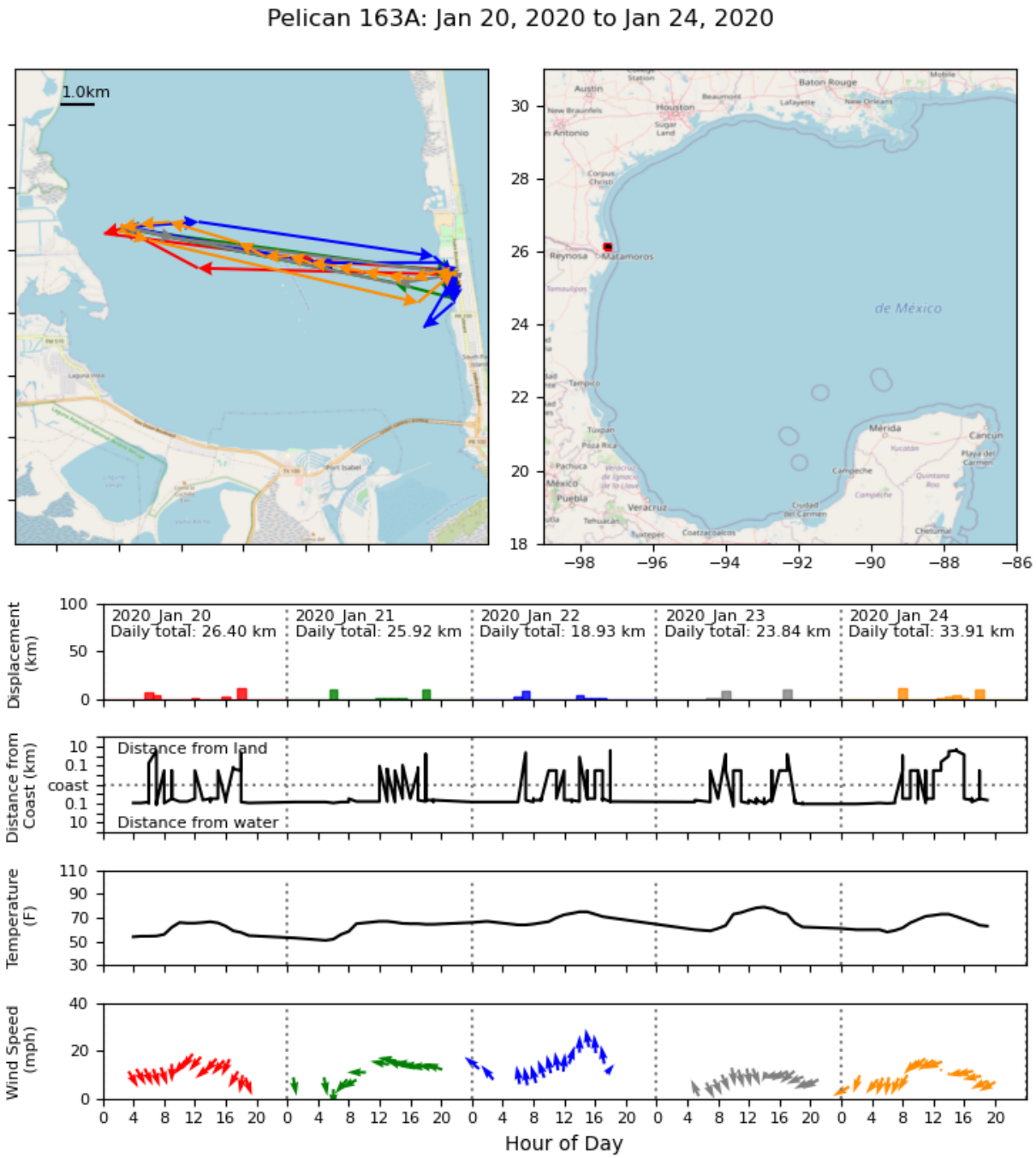

Figure 584 - Maps and graphs showing movements of 163A between 2020-01-20 and 2020-01-23 inclusive.

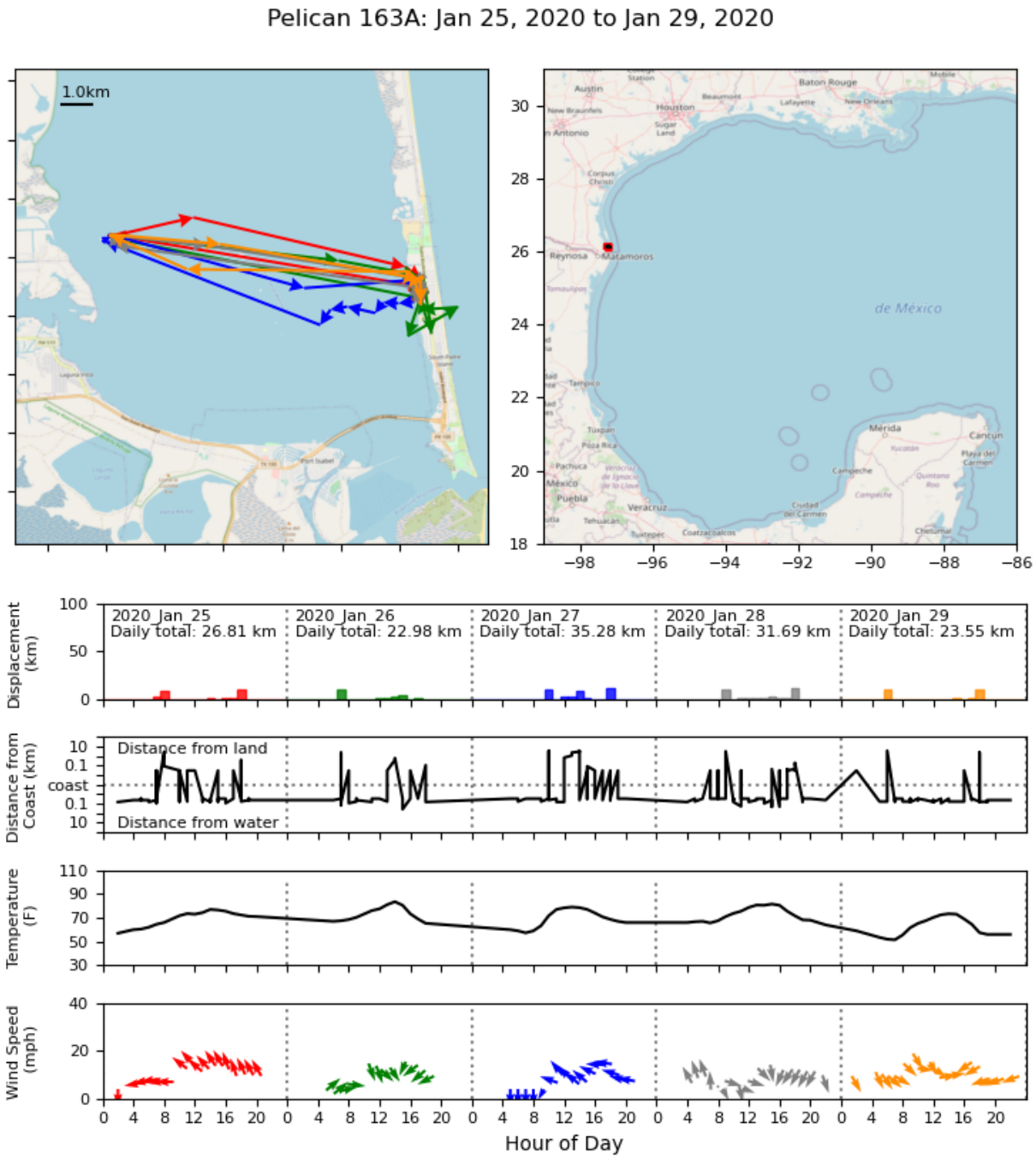

Figure 585 - Maps and graphs showing movements of 163A between 2020-01-25 and 2020-01-28 inclusive.

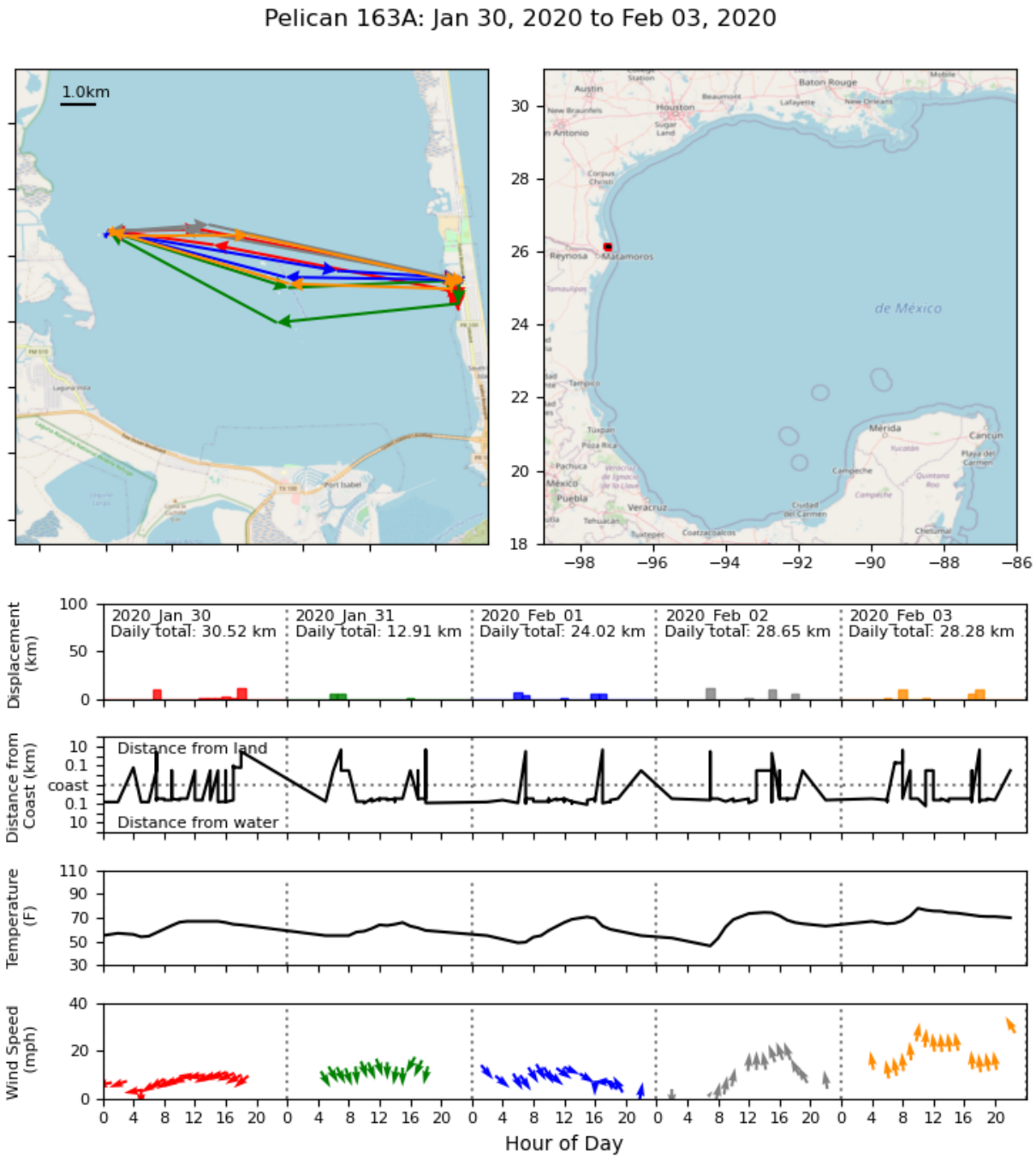

Figure 586 - Maps and graphs showing movements of 163A between 2020-01-30 and 2020-02-02 inclusive.

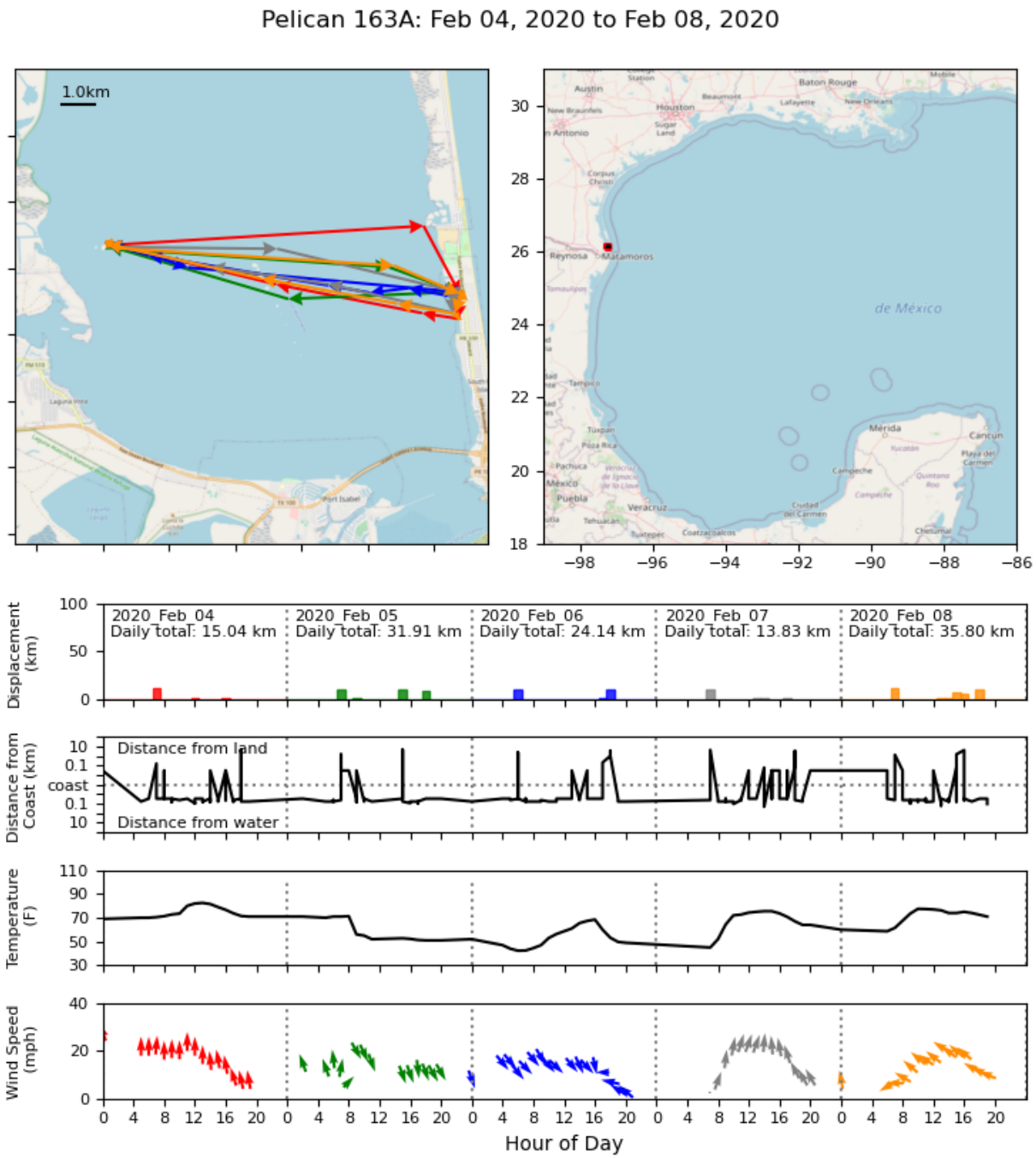

Figure 587 - Maps and graphs showing movements of 163A between 2020-02-04 and 2020-02-07 inclusive.

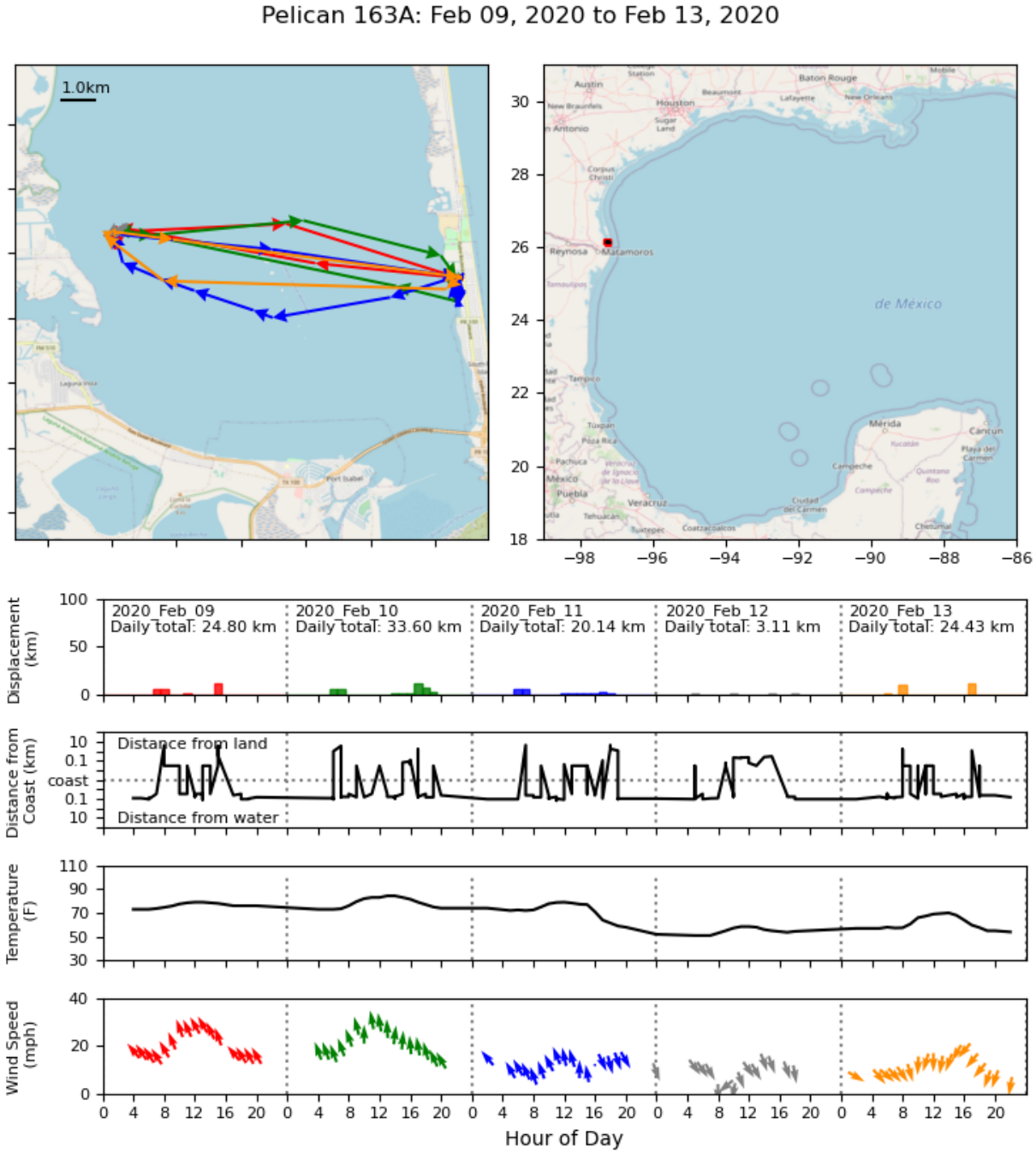

Figure 588 - Maps and graphs showing movements of 163A between 2020-02-09 and 2020-02-12 inclusive.

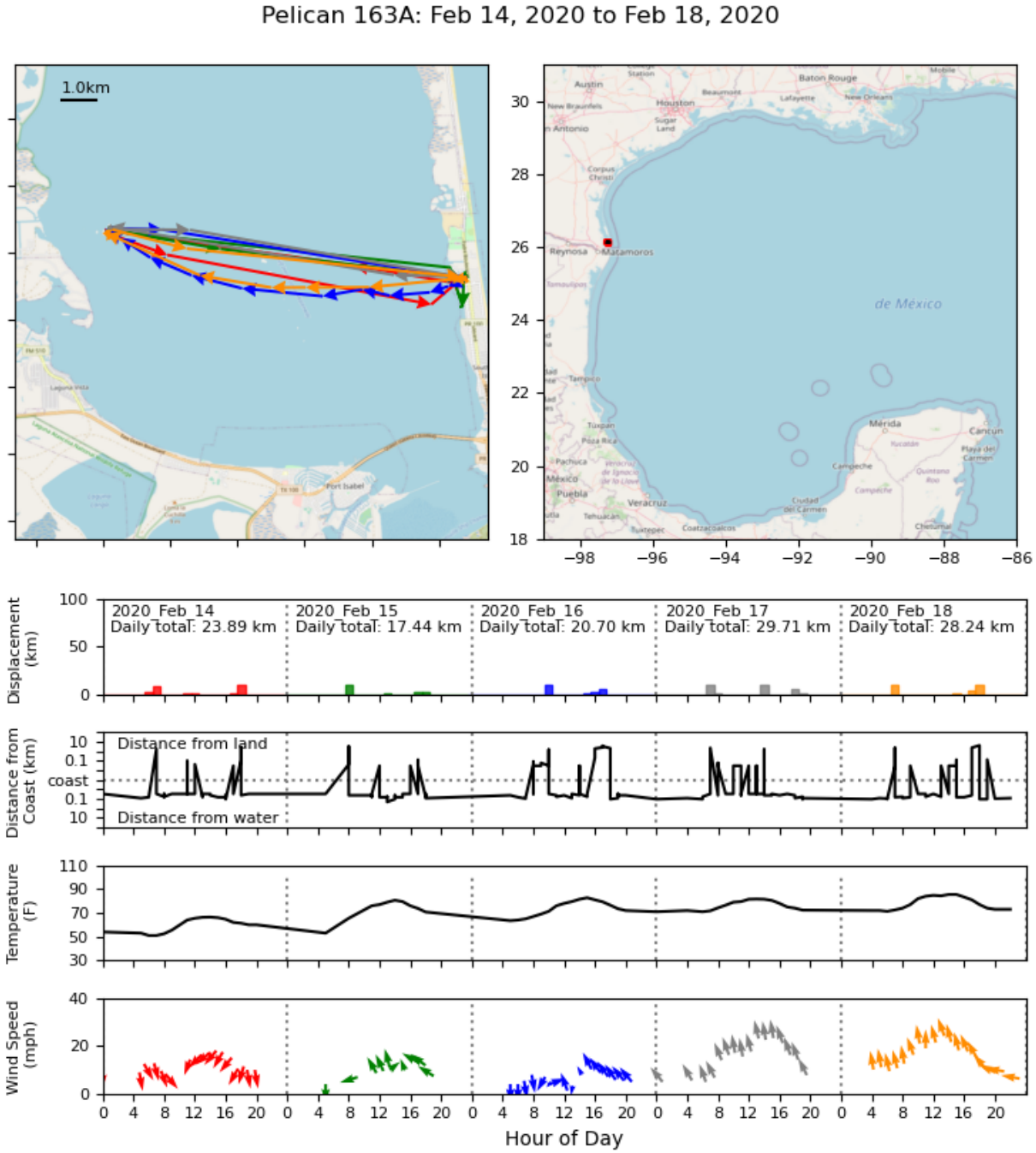

Figure 589 - Maps and graphs showing movements of 163A between 2020-02-14 and 2020-02-17 inclusive.

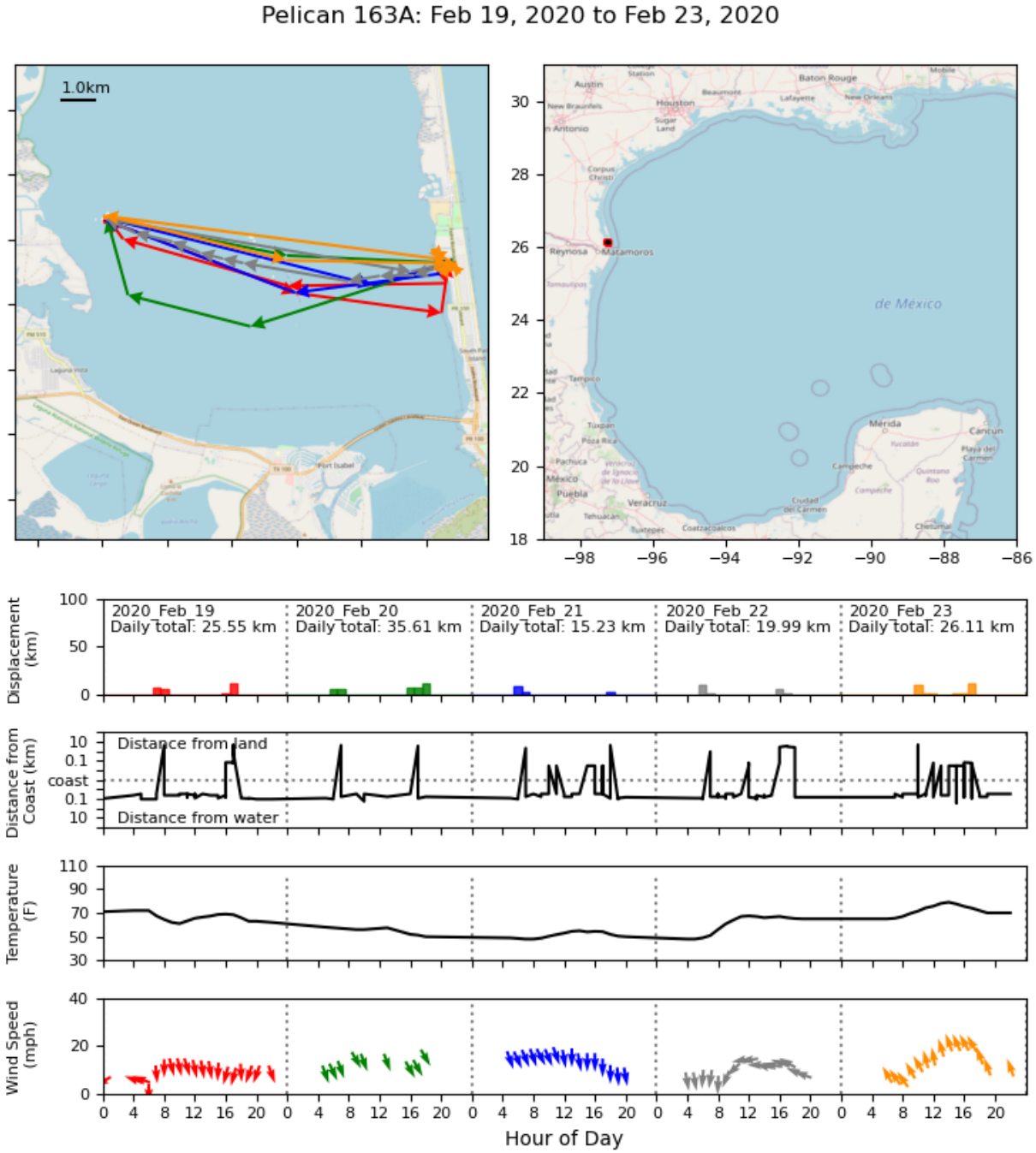

Figure 590 - Maps and graphs showing movements of 163A between 2020-02-19 and 2020-02-22 inclusive.

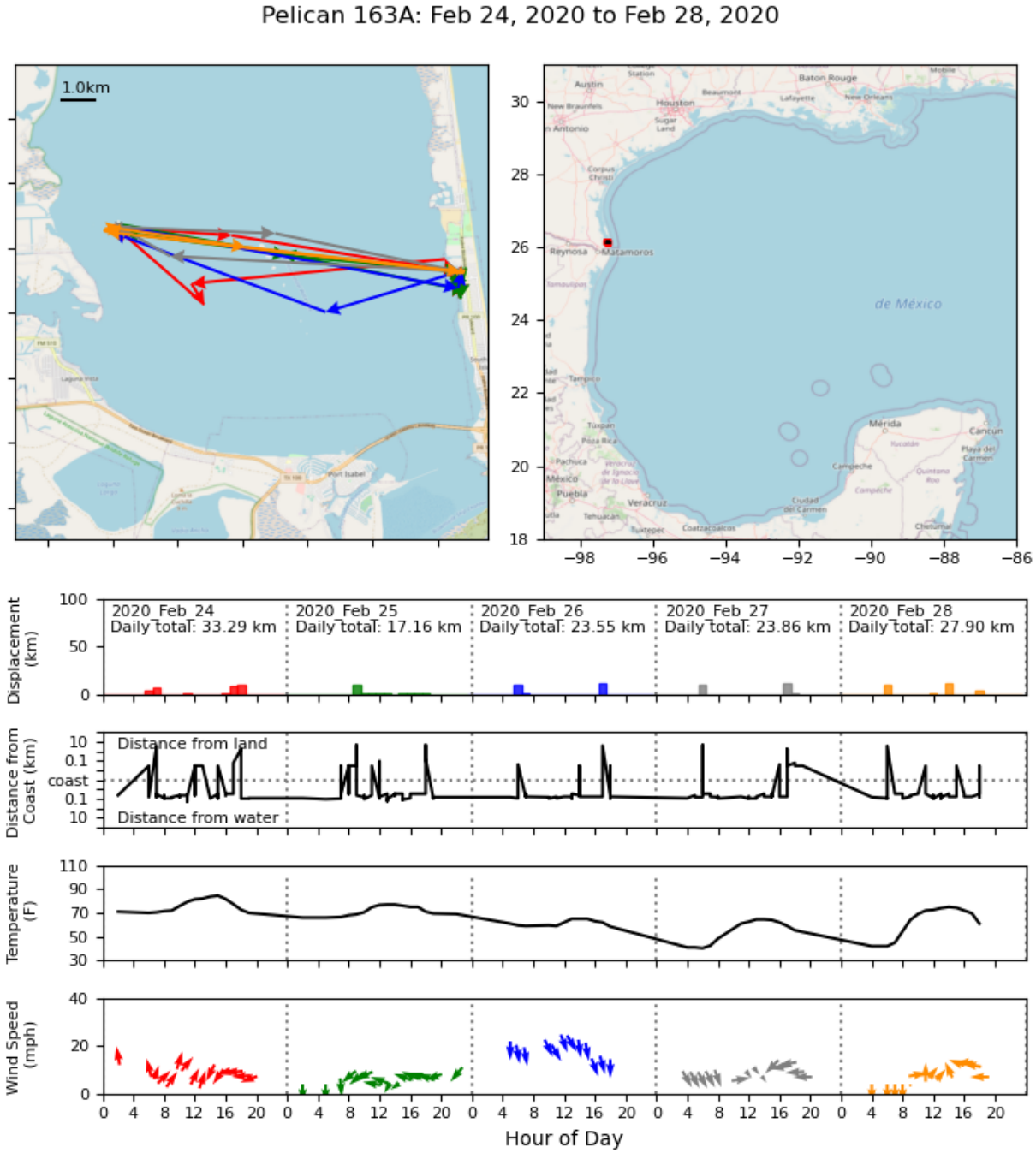

Figure 591 - Maps and graphs showing movements of 163A between 2020-02-24 and 2020-02-27 inclusive.

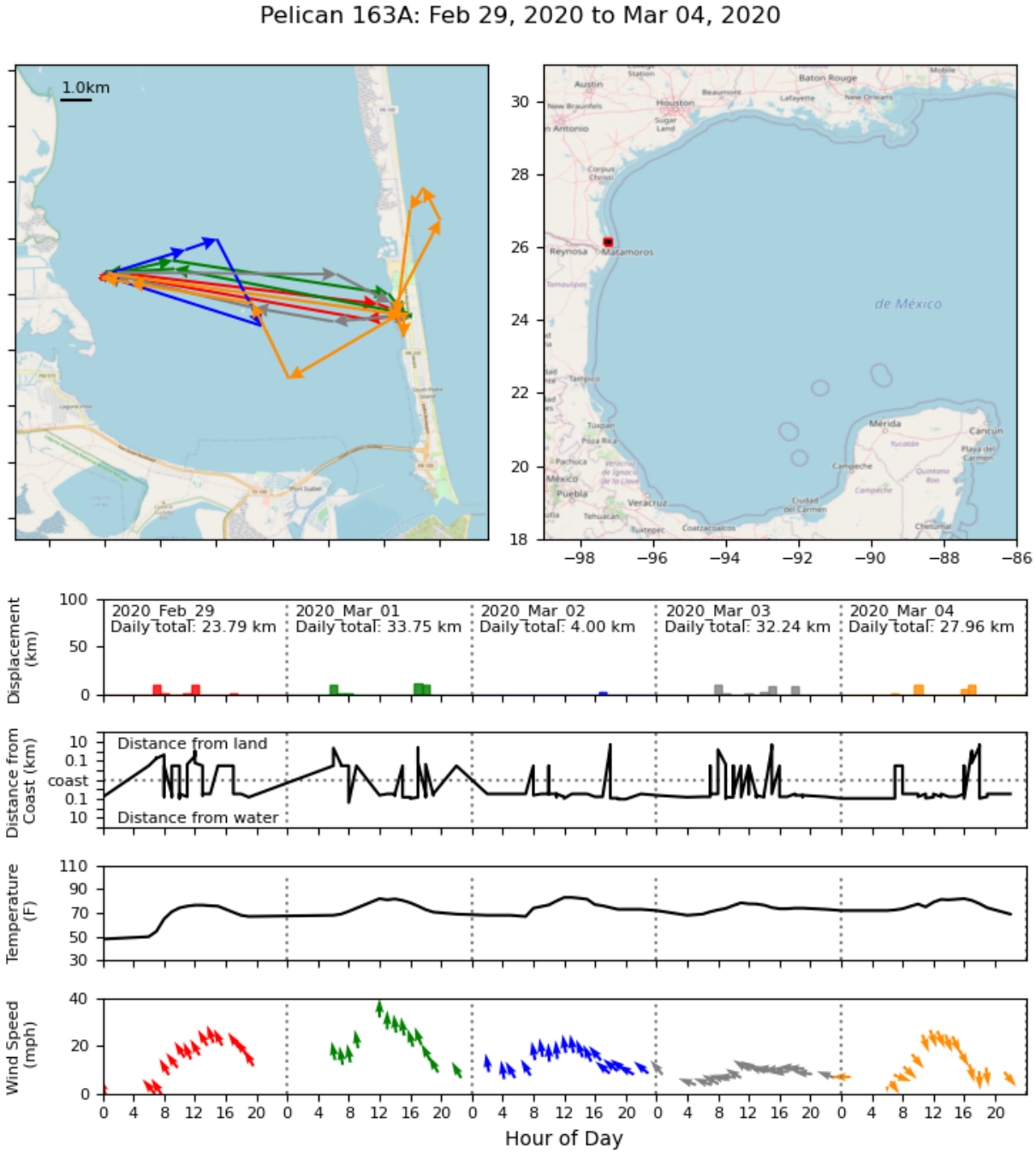

Figure 592 - Maps and graphs showing movements of 163A between 2020-02-29 and 2020-03-03 inclusive.

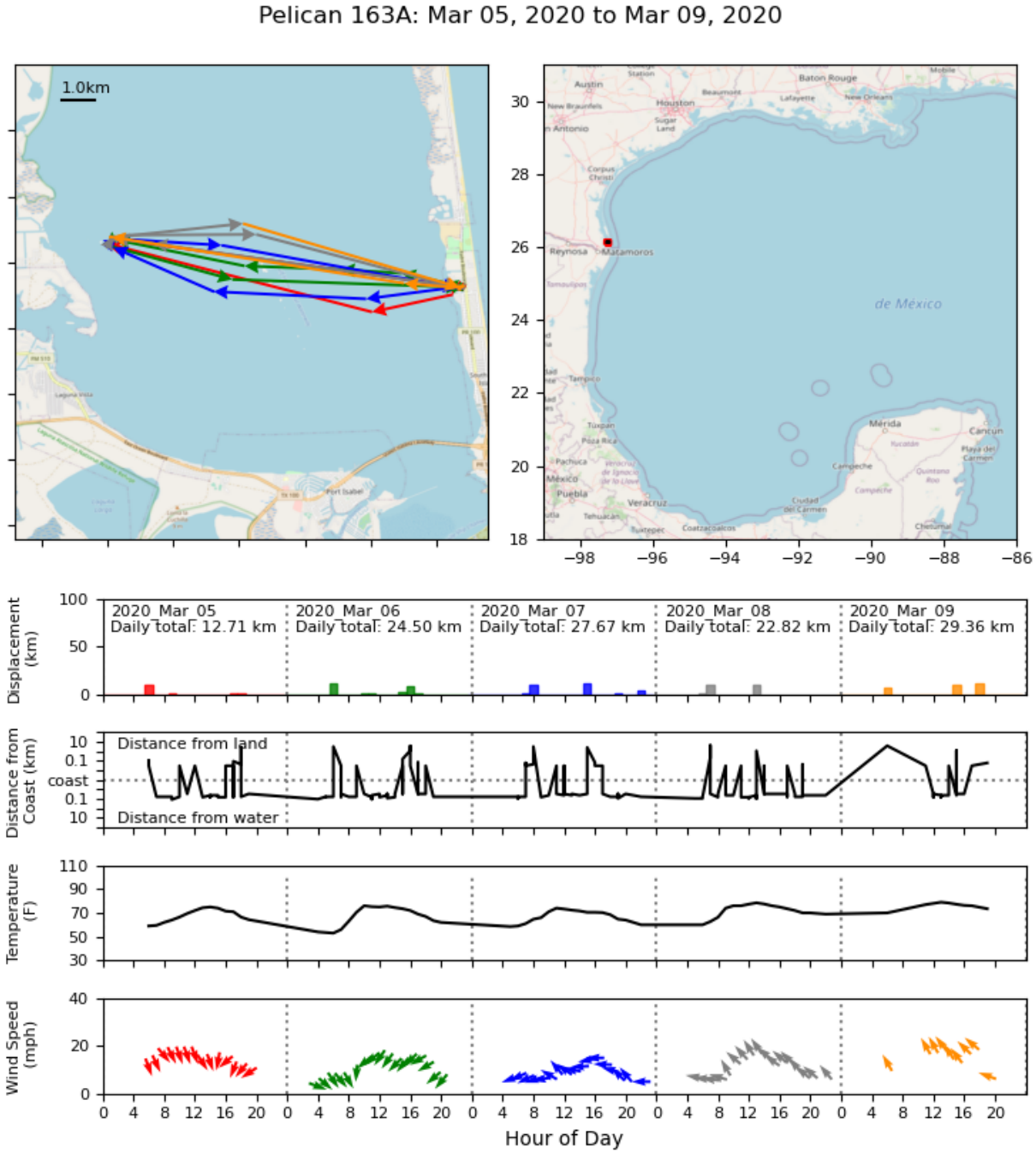

Figure 593 - Maps and graphs showing movements of 163A between 2020-03-05 and 2020-03-08 inclusive.

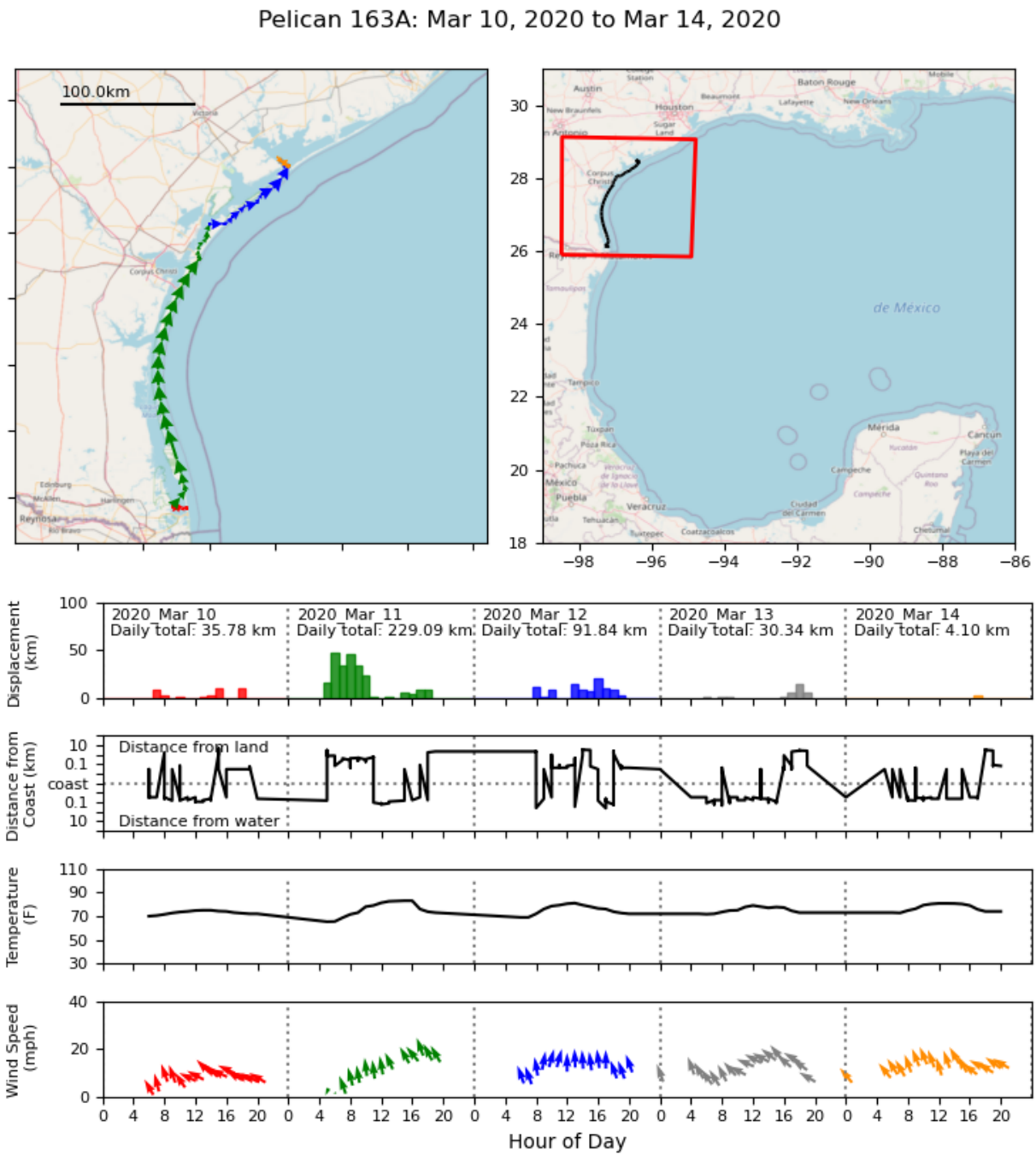

Figure 594 - Maps and graphs showing movements of 163A between 2020-03-10 and 2020-03-13 inclusive.

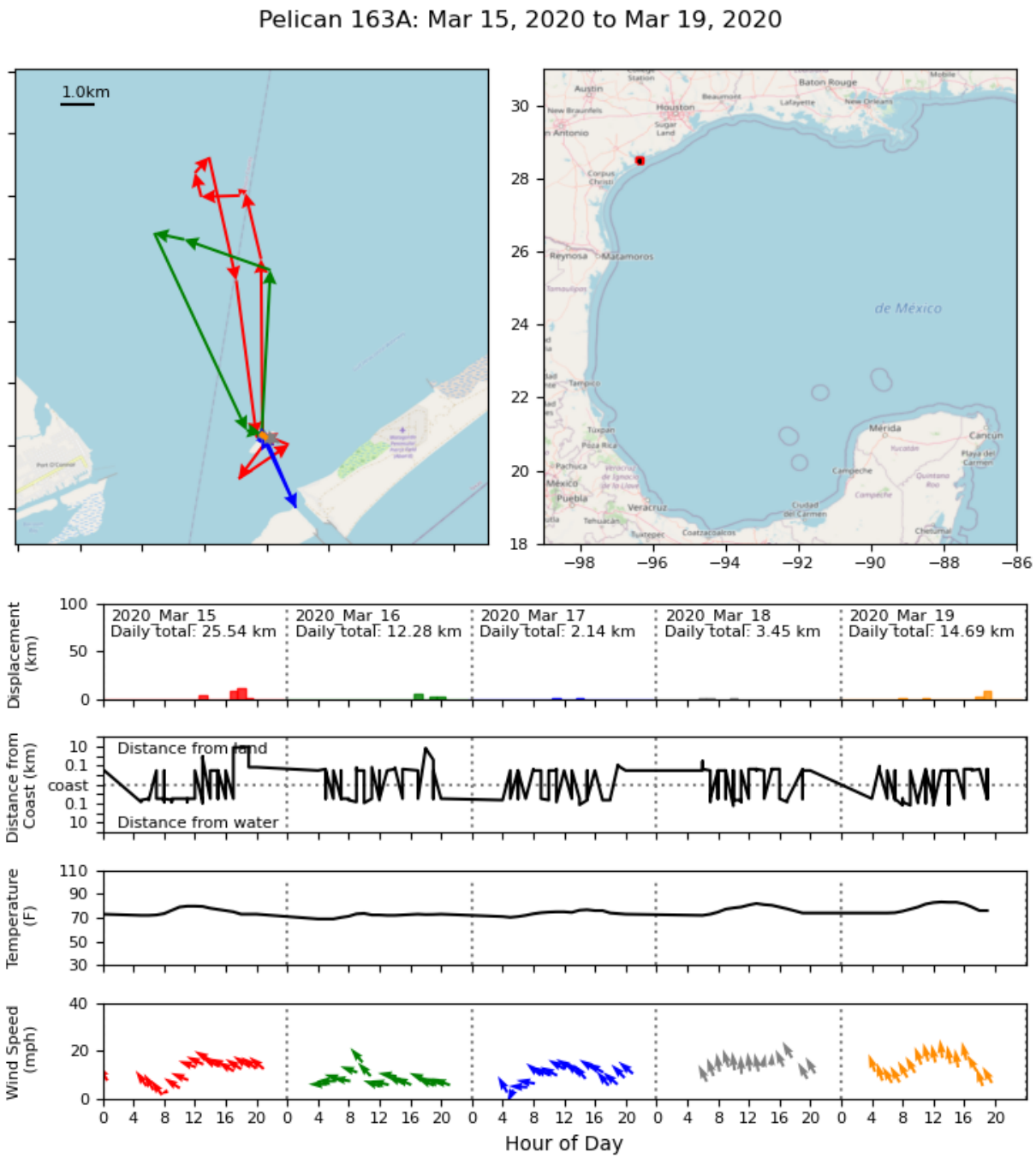

Figure 595 - Maps and graphs showing movements of 163A between 2020-03-15 and 2020-03-18 inclusive.

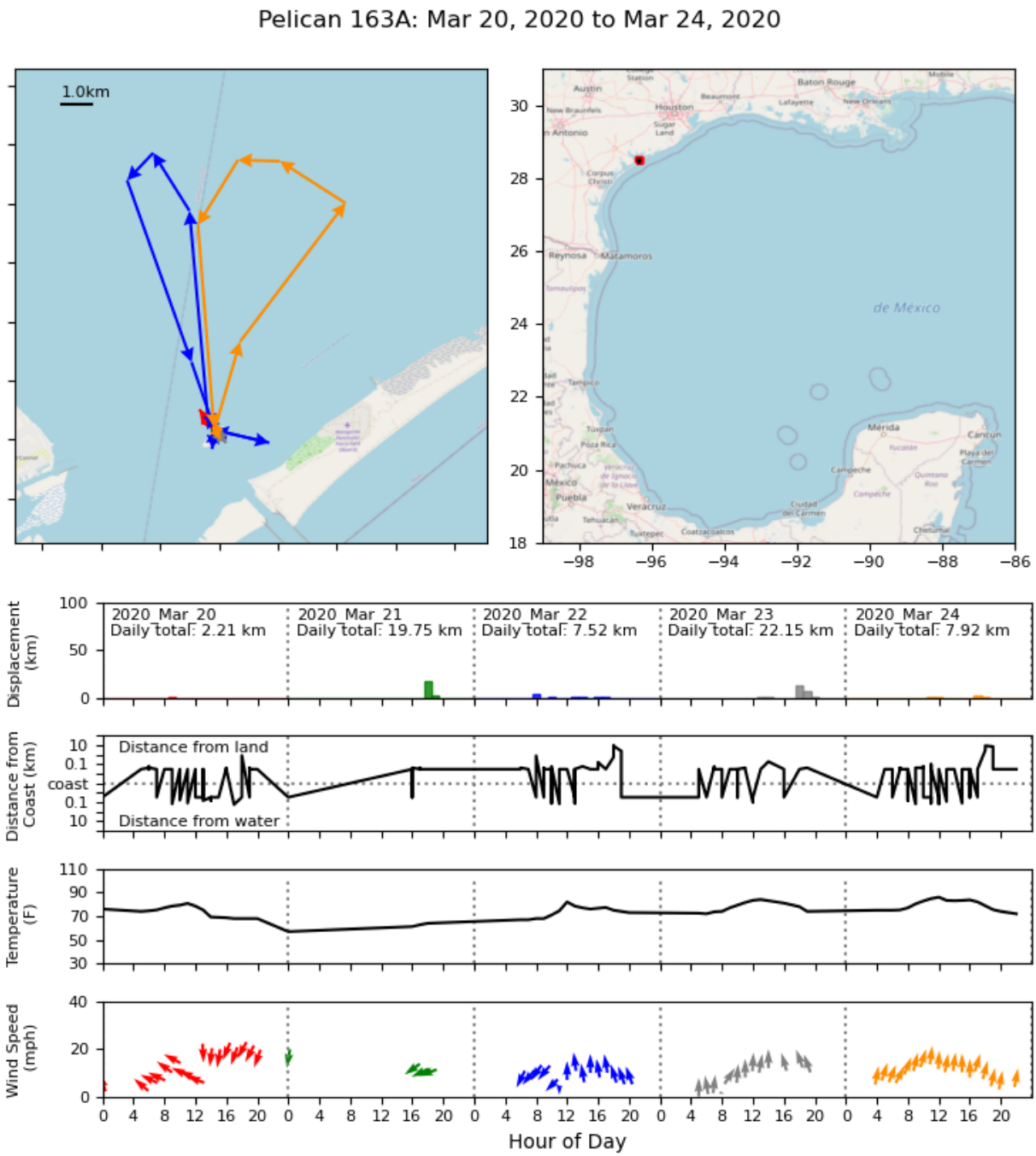

Figure 596 - Maps and graphs showing movements of 163A between 2020-03-20 and 2020-03-23 inclusive.

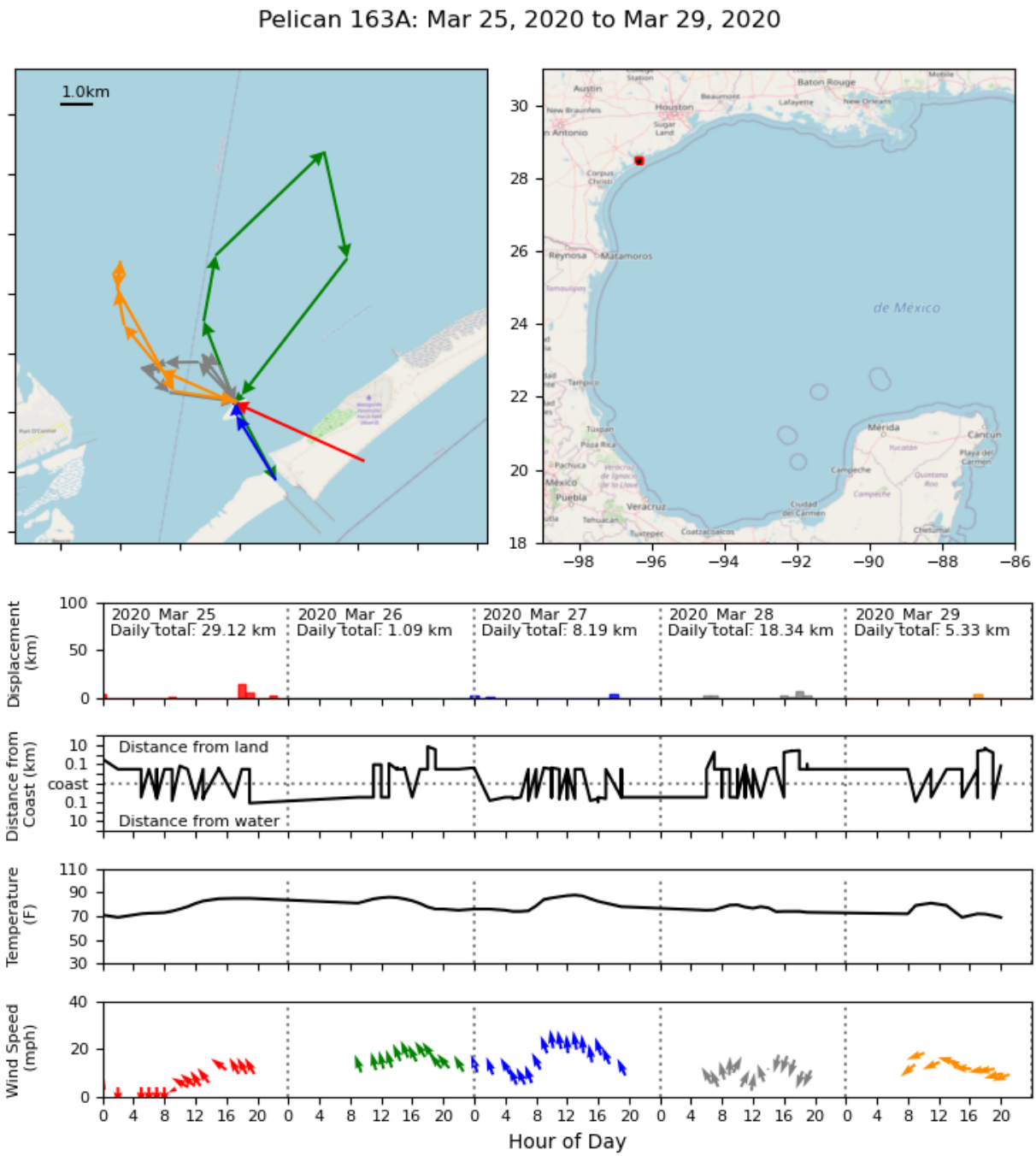

Figure 597 - Maps and graphs showing movements of 163A between 2020-03-25 and 2020-03-28 inclusive.

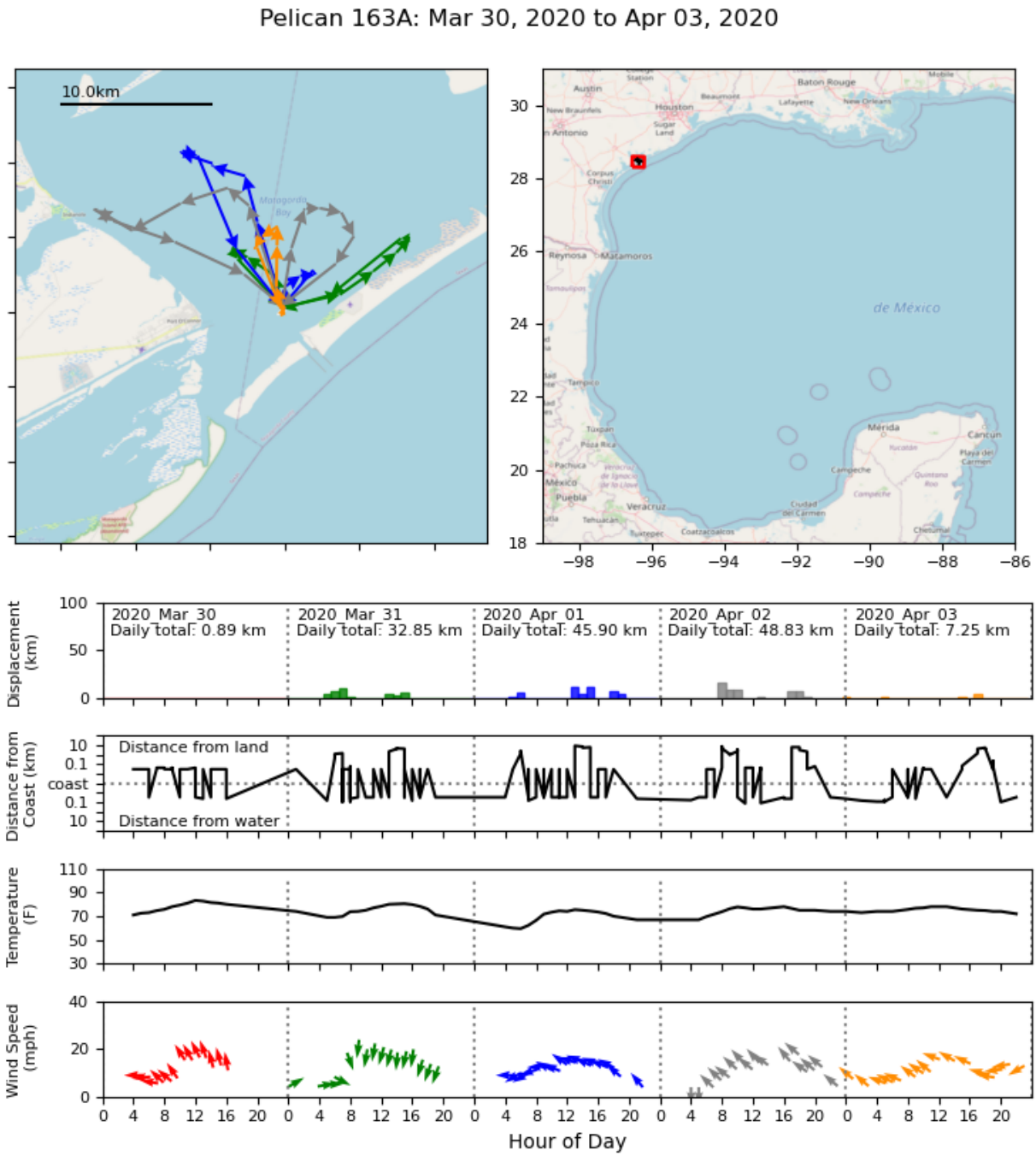

Figure 598 - Maps and graphs showing movements of 163A between 2020-03-30 and 2020-04-02 inclusive.

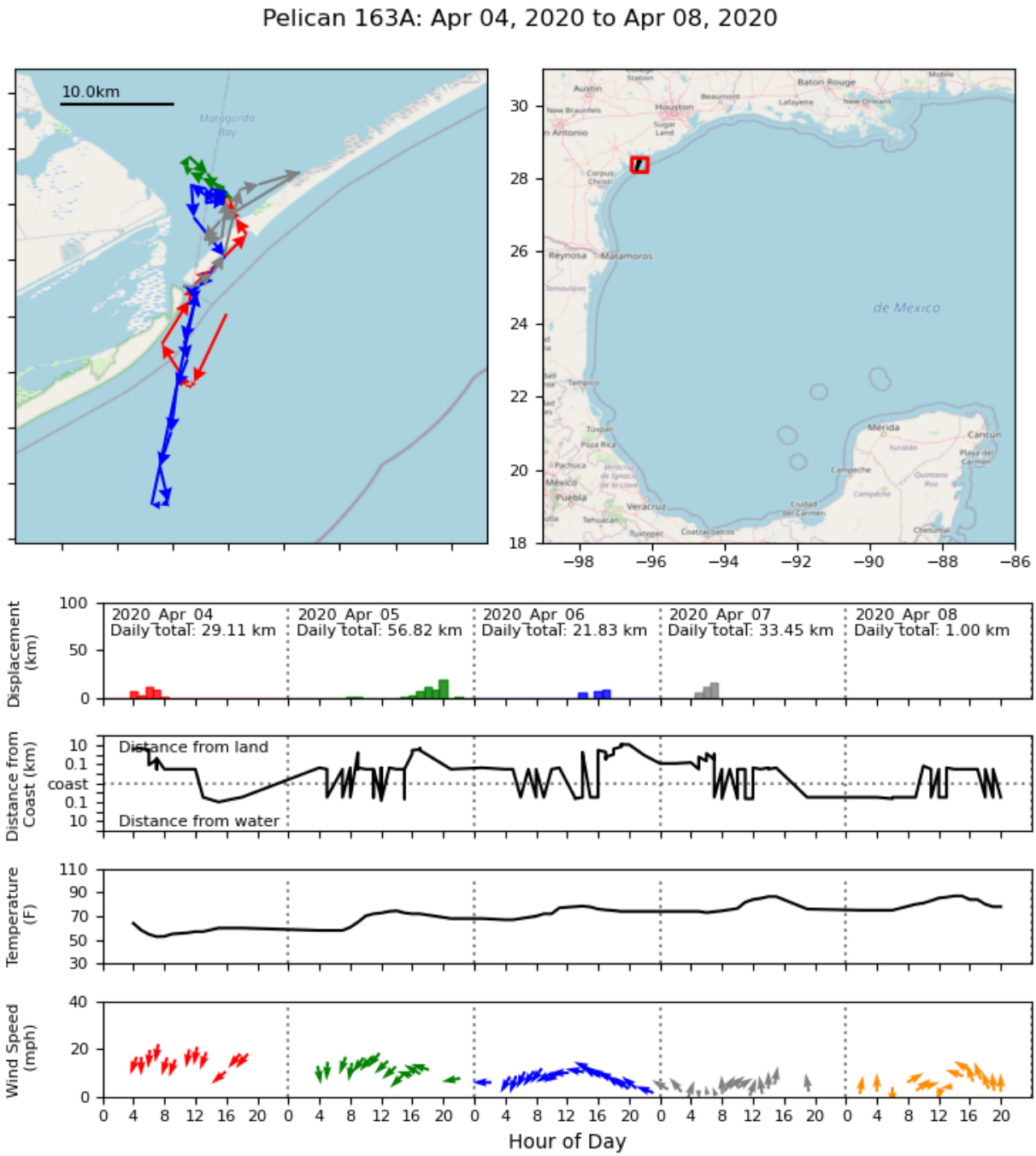

Figure 599 - Maps and graphs showing movements of 163A between 2020-04-04 and 2020-04-07 inclusive.

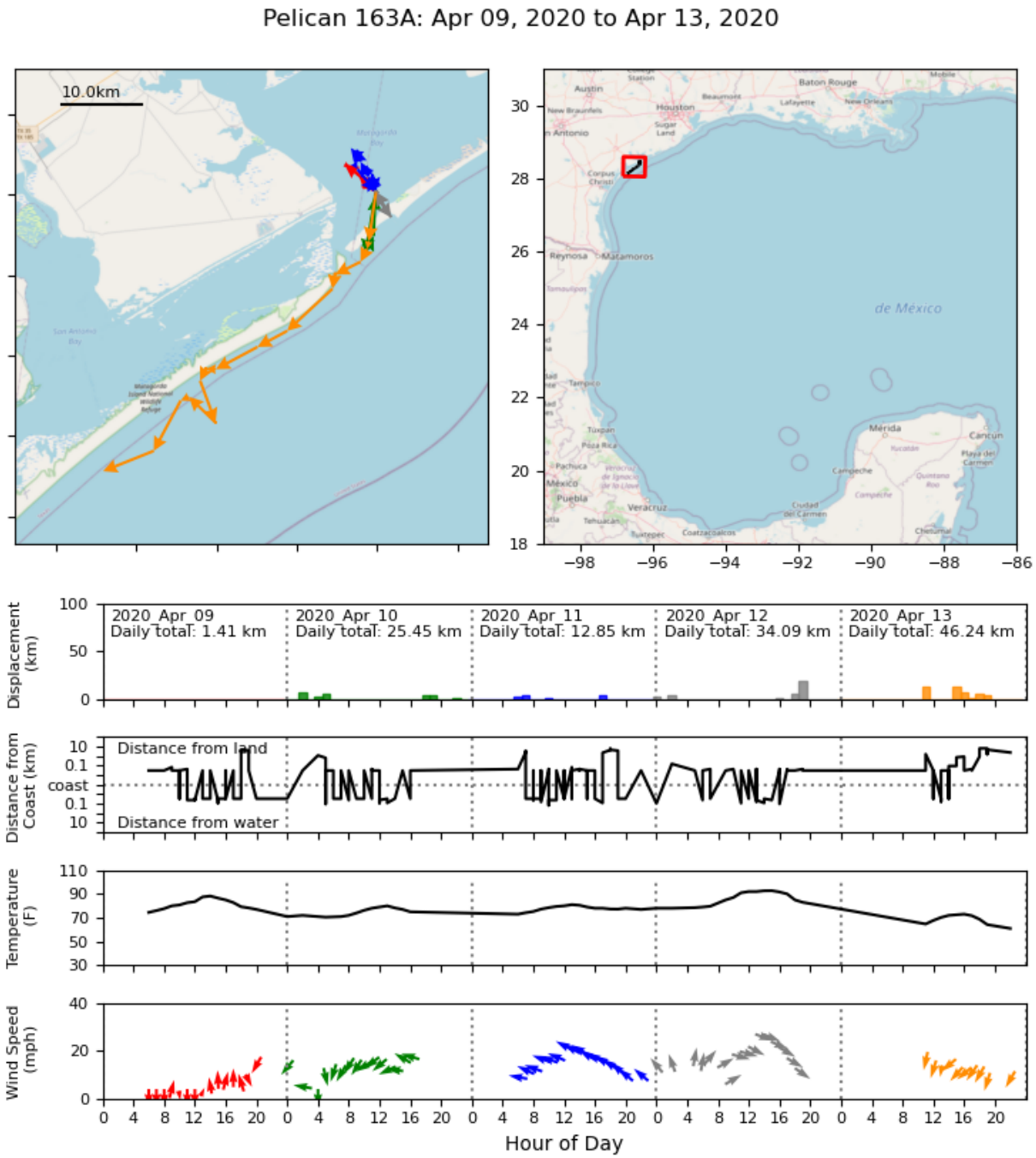

Figure 600 - Maps and graphs showing movements of 163A between 2020-04-09 and 2020-04-12 inclusive.

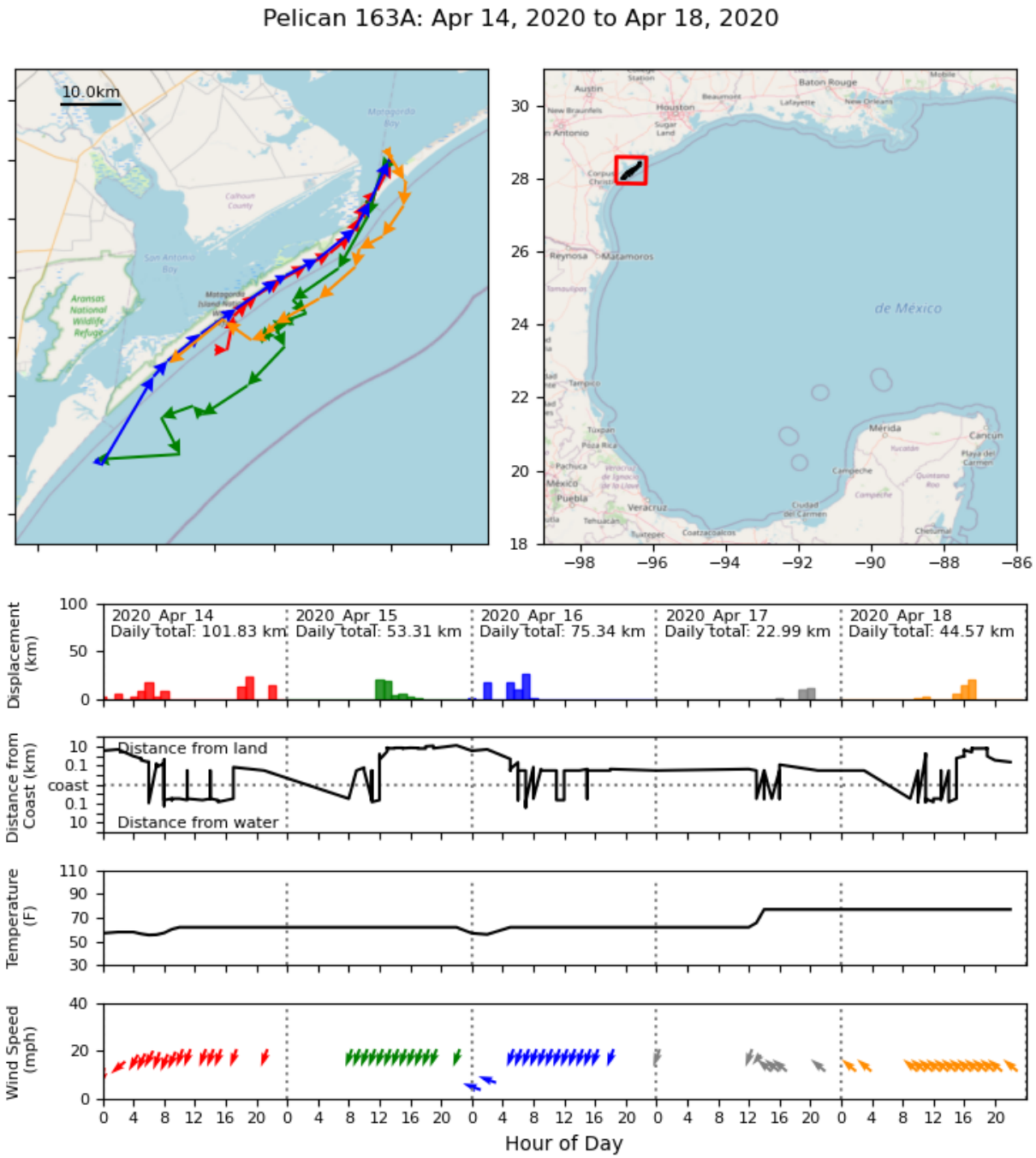

Figure 601 - Maps and graphs showing movements of 163A between 2020-04-14 and 2020-04-17 inclusive.

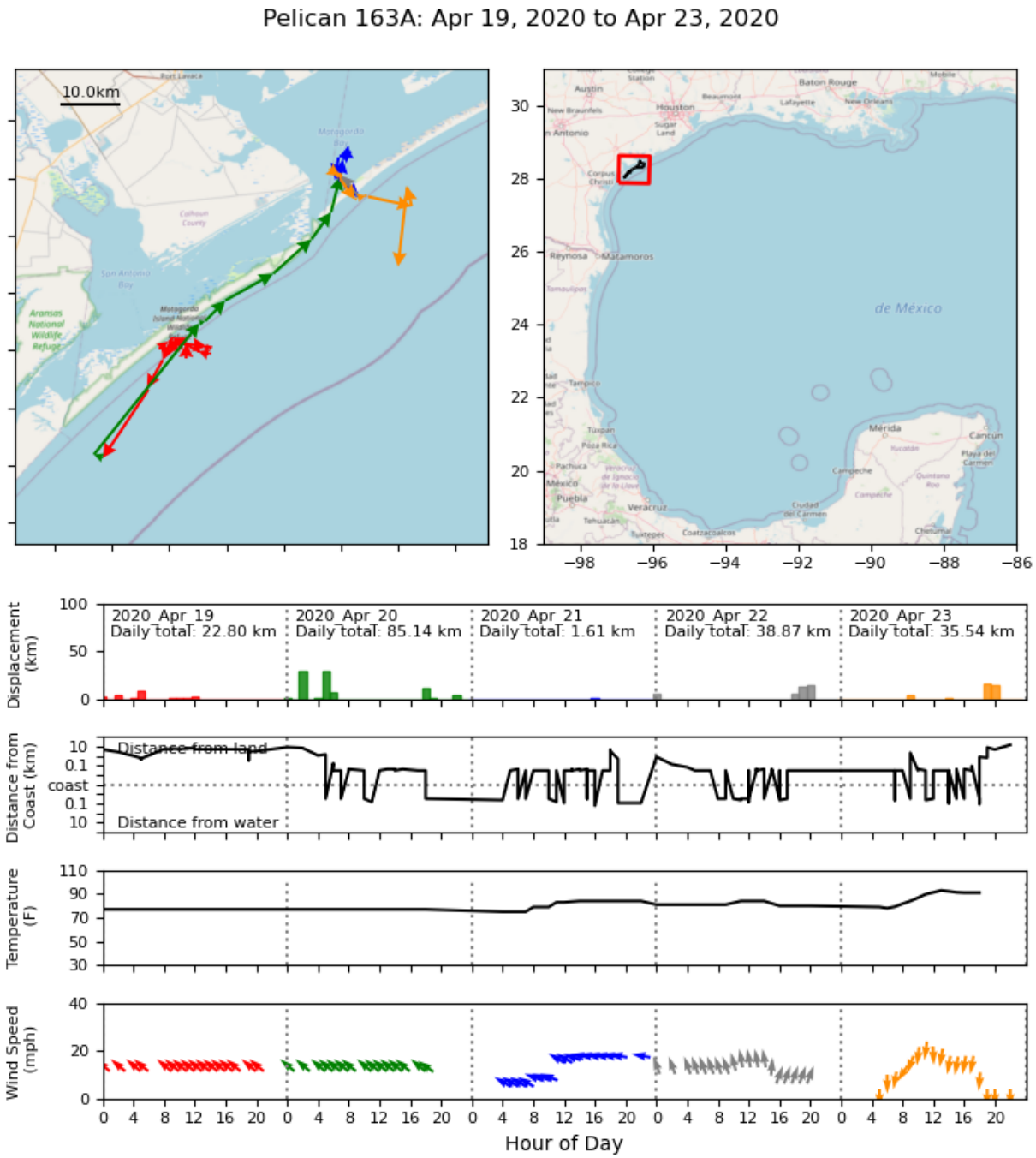

Figure 602 - Maps and graphs showing movements of 163A between 2020-04-19 and 2020-04-22 inclusive.

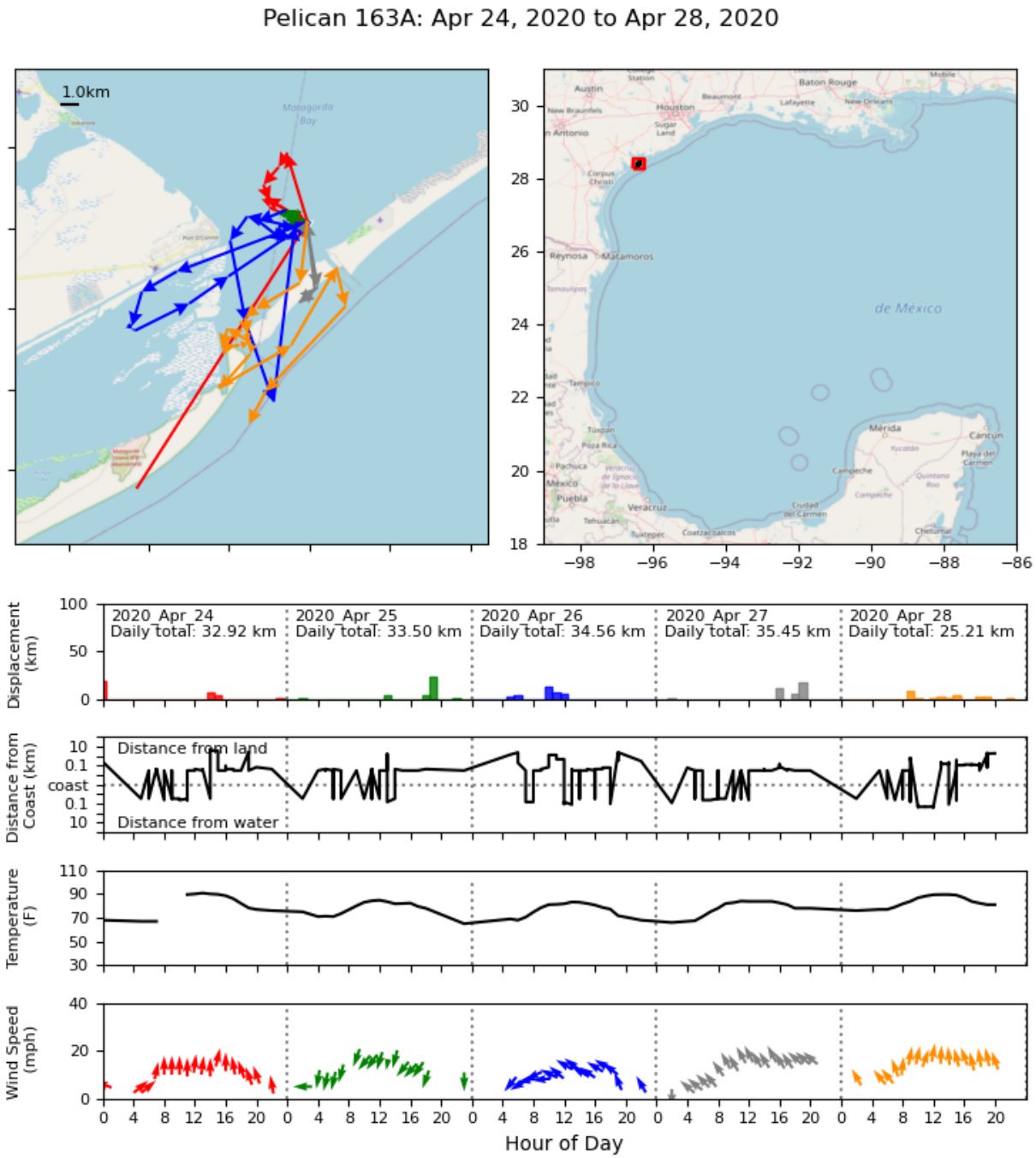

Figure 603 - Maps and graphs showing movements of 163A between 2020-04-24 and 2020-04-27 inclusive.

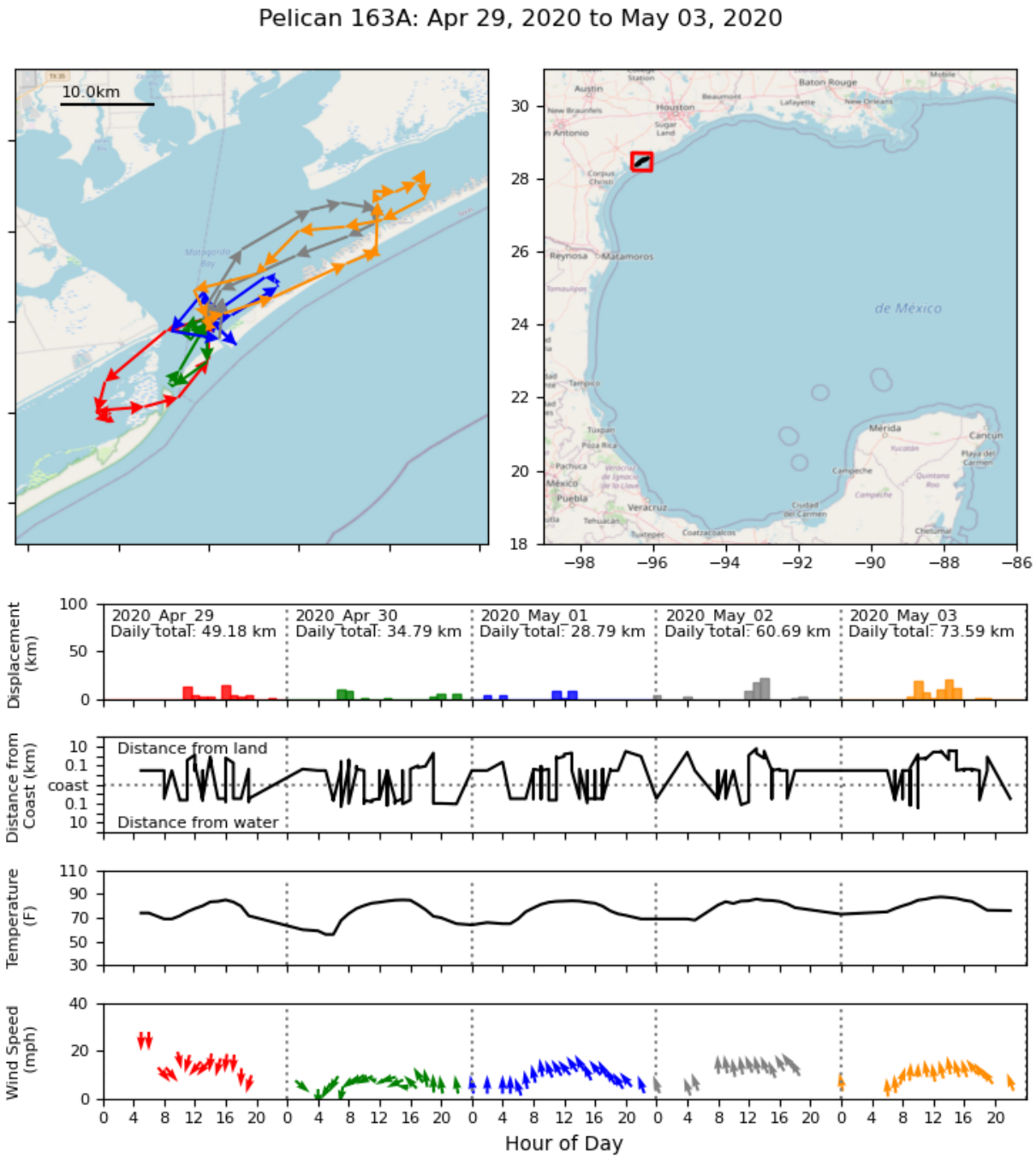

Figure 604 - Maps and graphs showing movements of 163A between 2020-04-29 and 2020-05-02 inclusive.

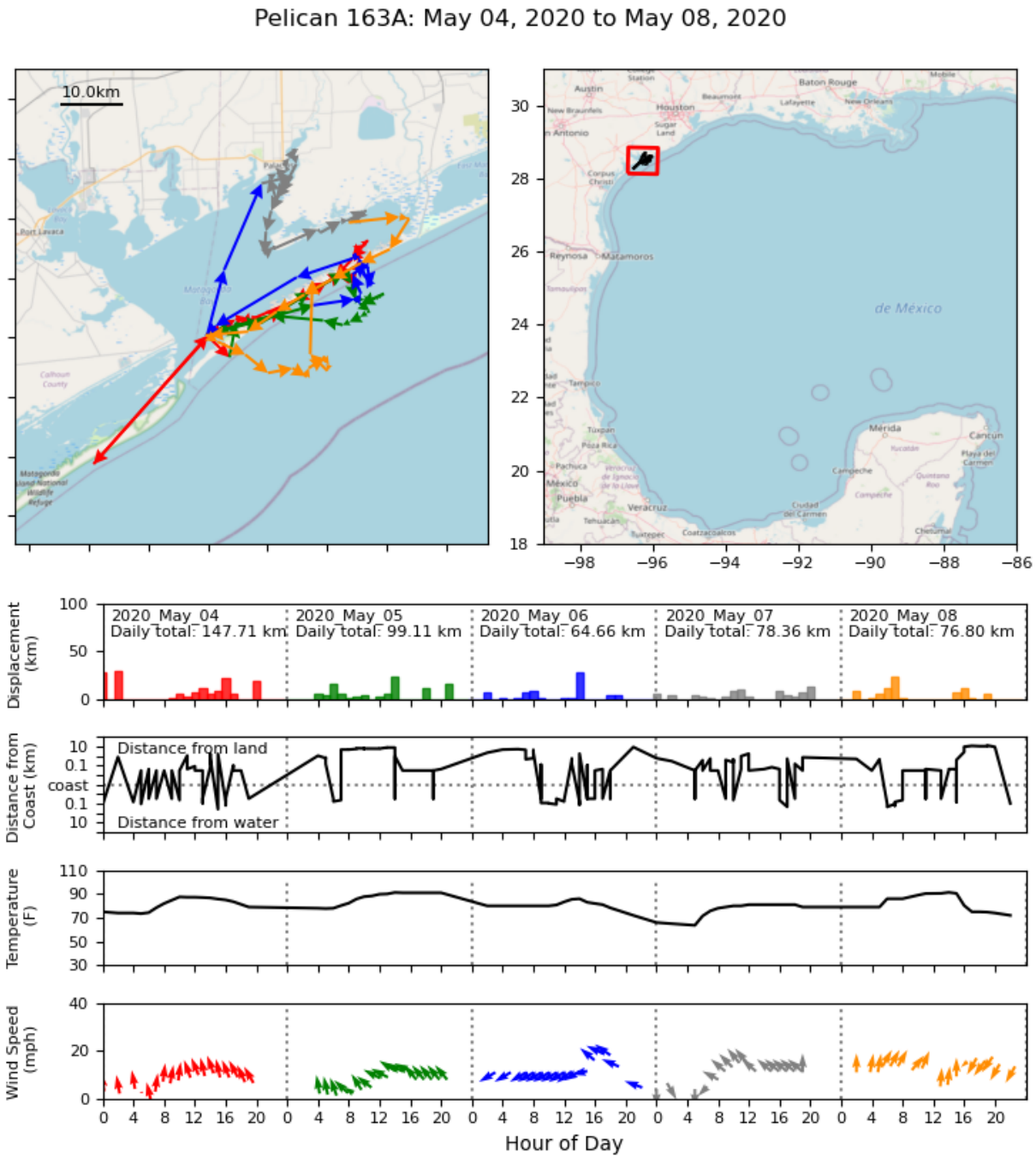

Figure 605 - Maps and graphs showing movements of 163A between 2020-05-04 and 2020-05-07 inclusive.

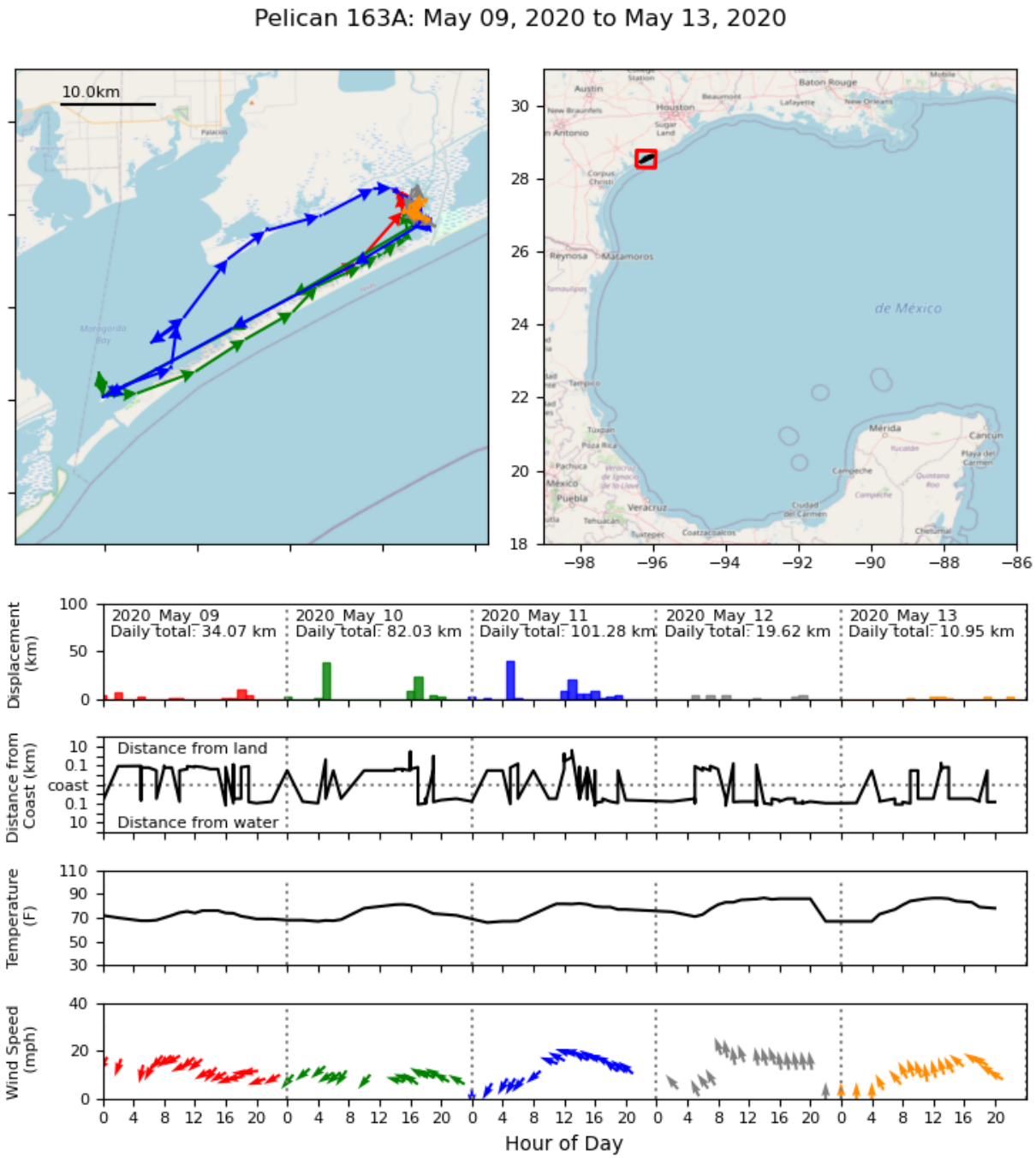

Figure 606 - Maps and graphs showing movements of 163A between 2020-05-09 and 2020-05-12 inclusive.

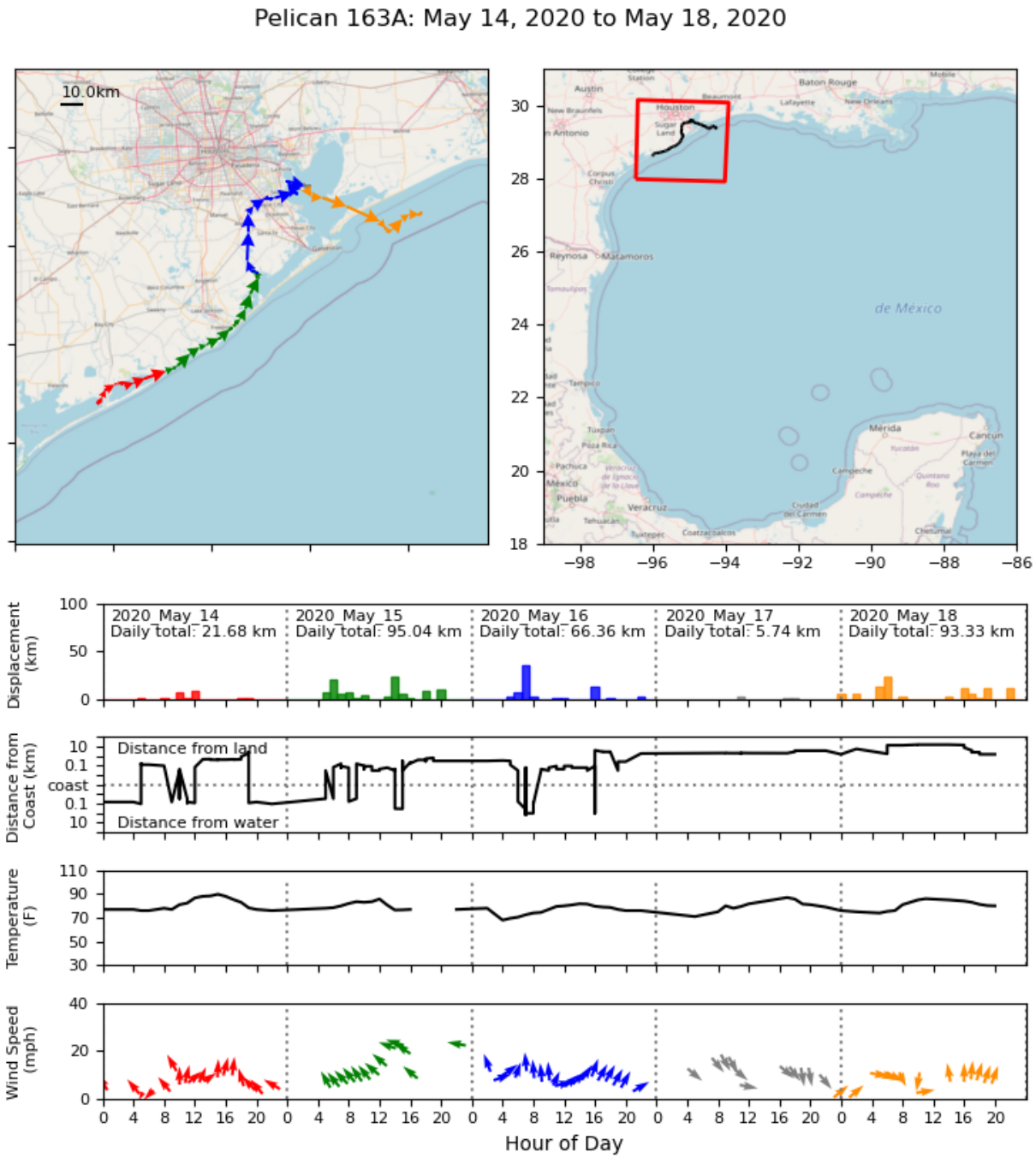

Figure 607 - Maps and graphs showing movements of 163A between 2020-05-14 and 2020-05-17 inclusive.

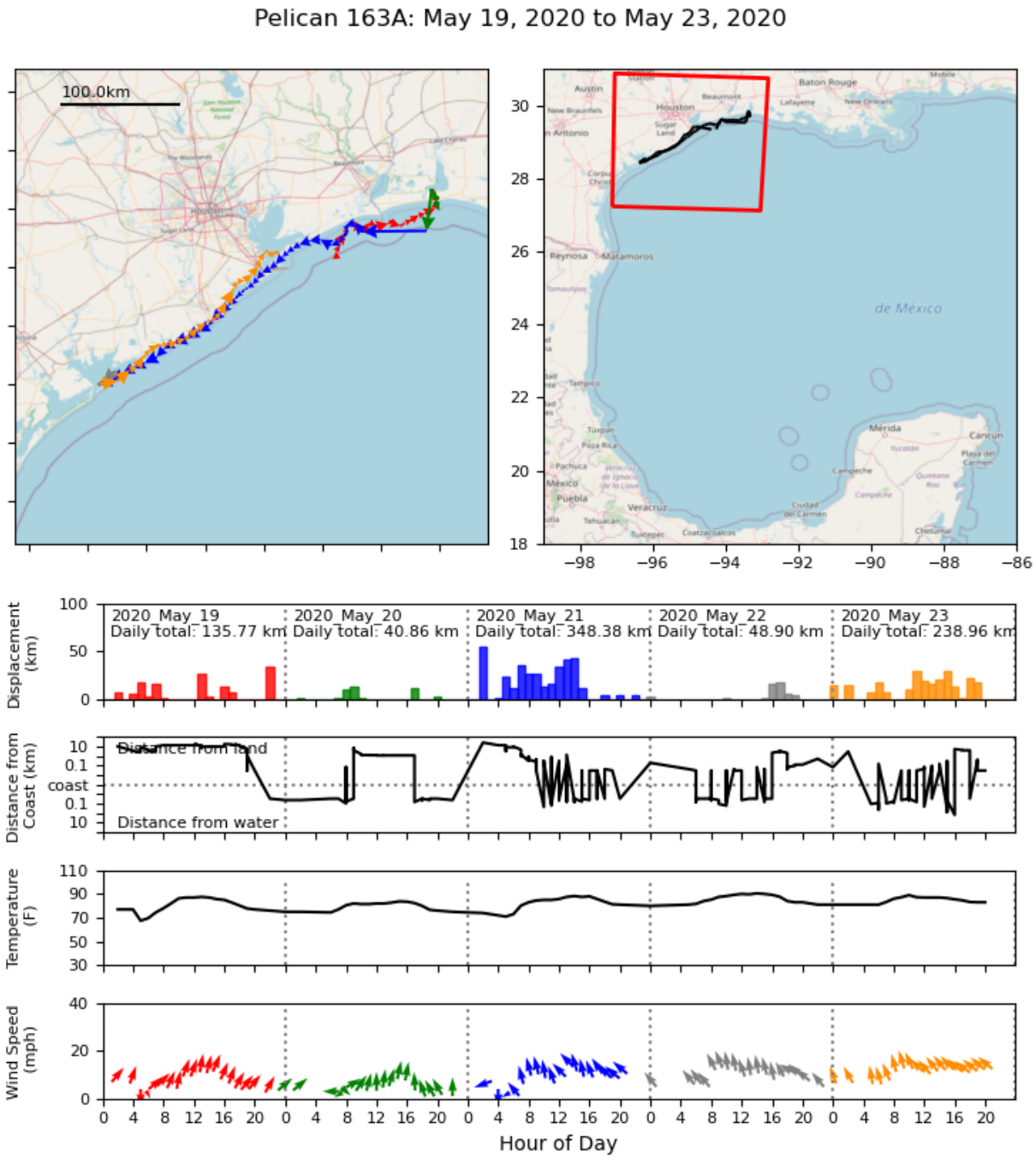

Figure 608 - Maps and graphs showing movements of 163A between 2020-05-19 and 2020-05-22 inclusive.

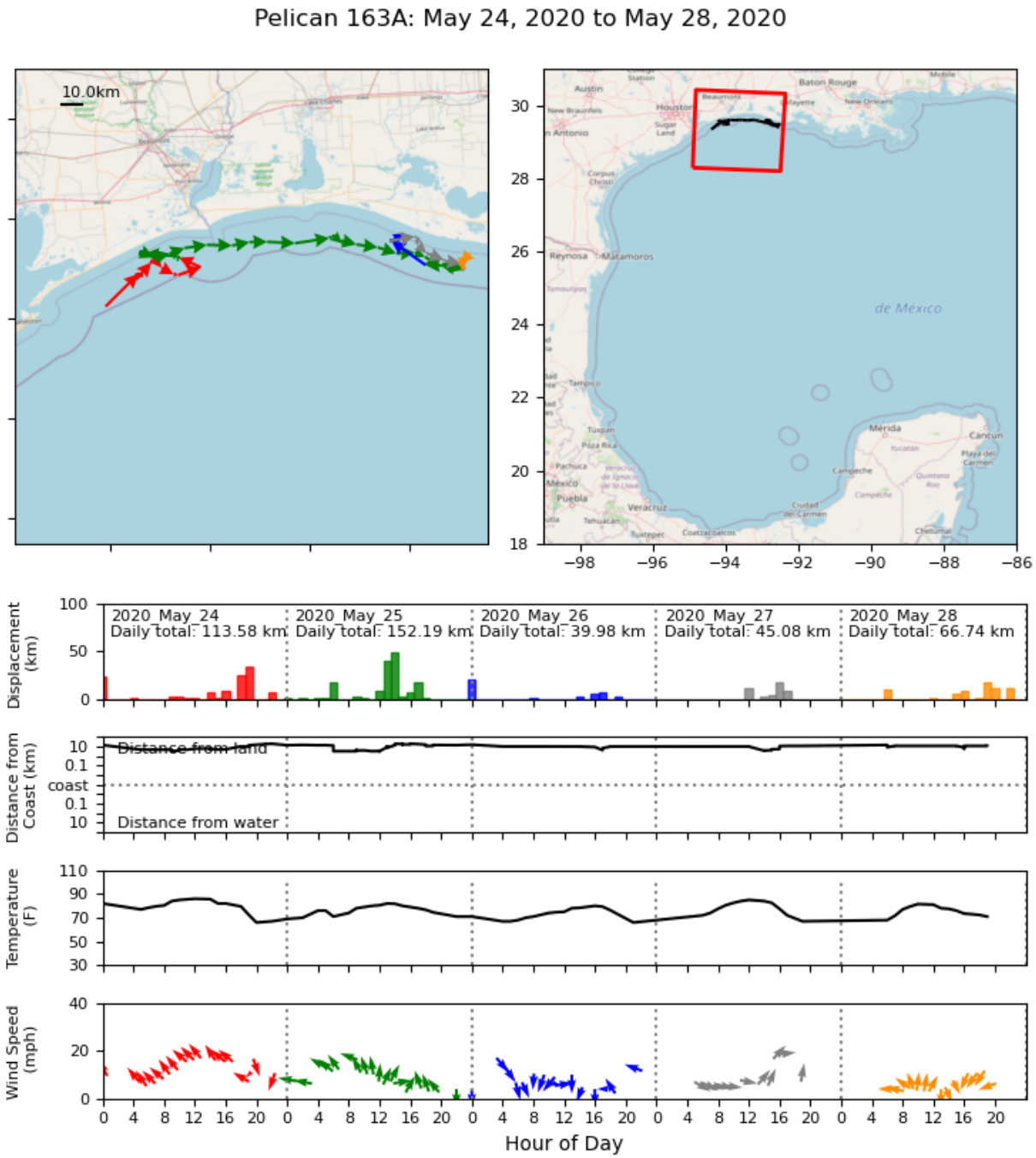

Figure 609 - Maps and graphs showing movements of 163A between 2020-05-24 and 2020-05-27 inclusive.

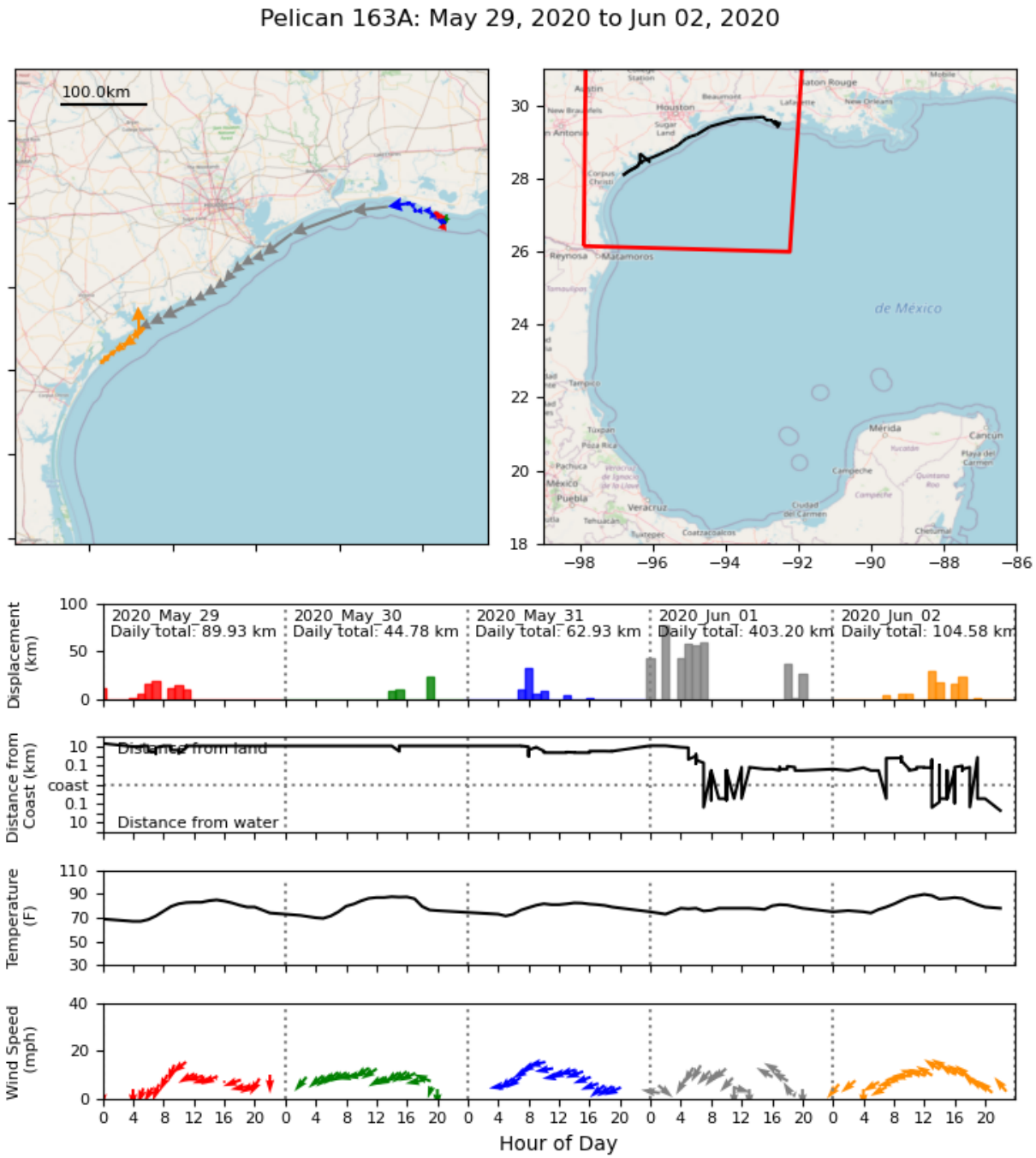

Figure 610 - Maps and graphs showing movements of 163A between 2020-05-29 and 2020-06-01 inclusive.

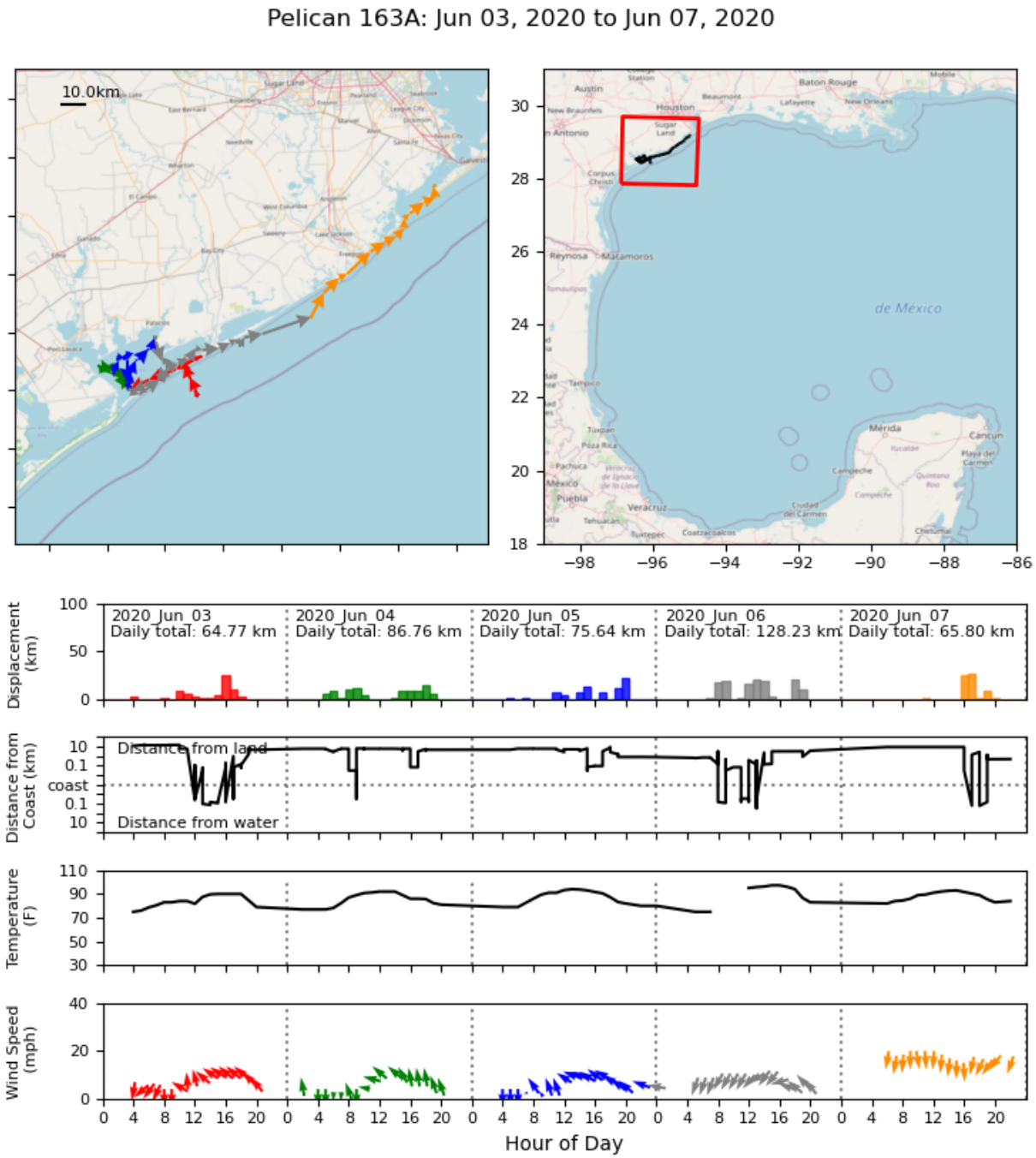

Figure 611 - Maps and graphs showing movements of 163A between 2020-06-03 and 2020-06-06 inclusive.

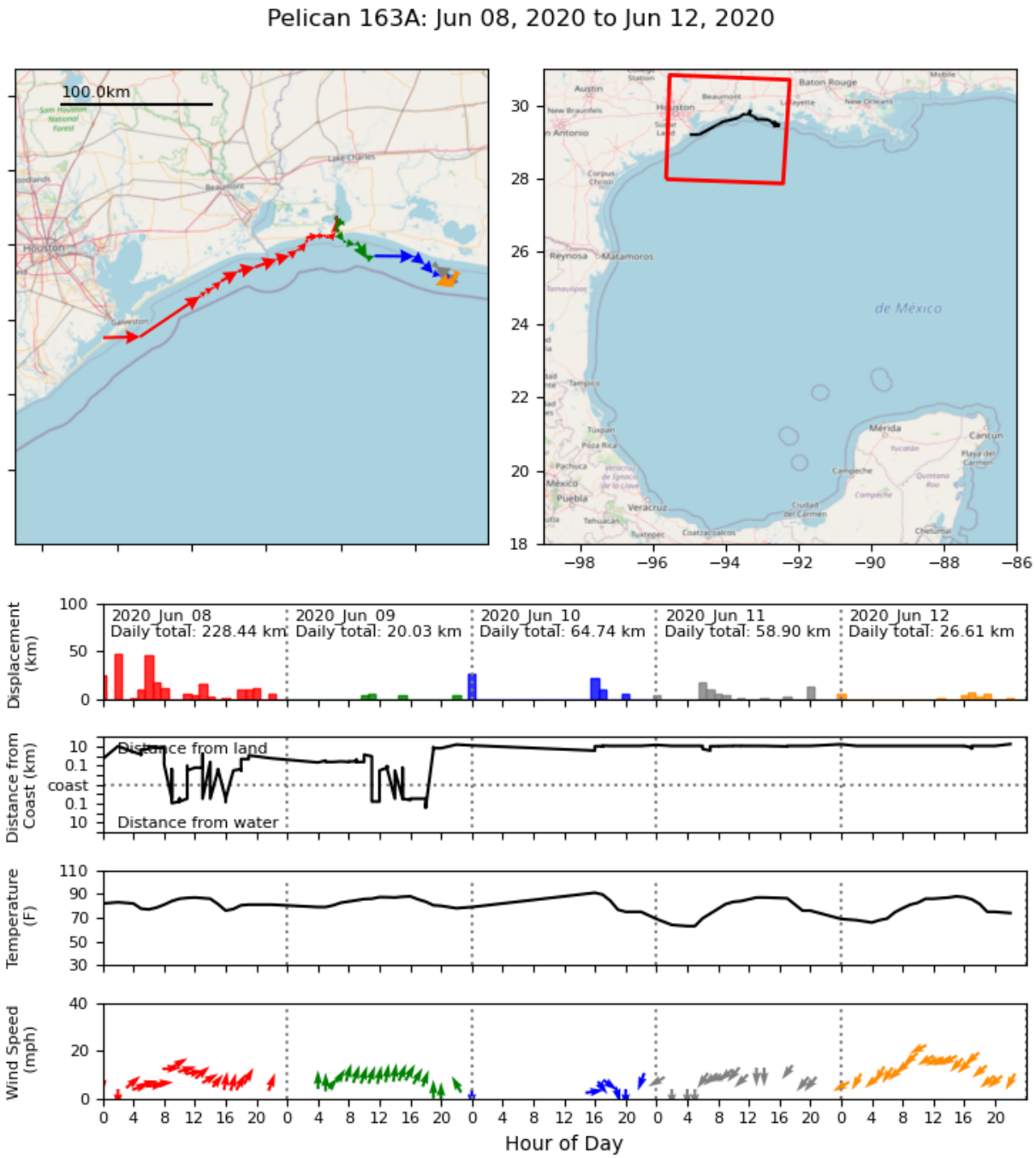

Figure 612 - Maps and graphs showing movements of 163A between 2020-06-08 and 2020-06-11 inclusive.

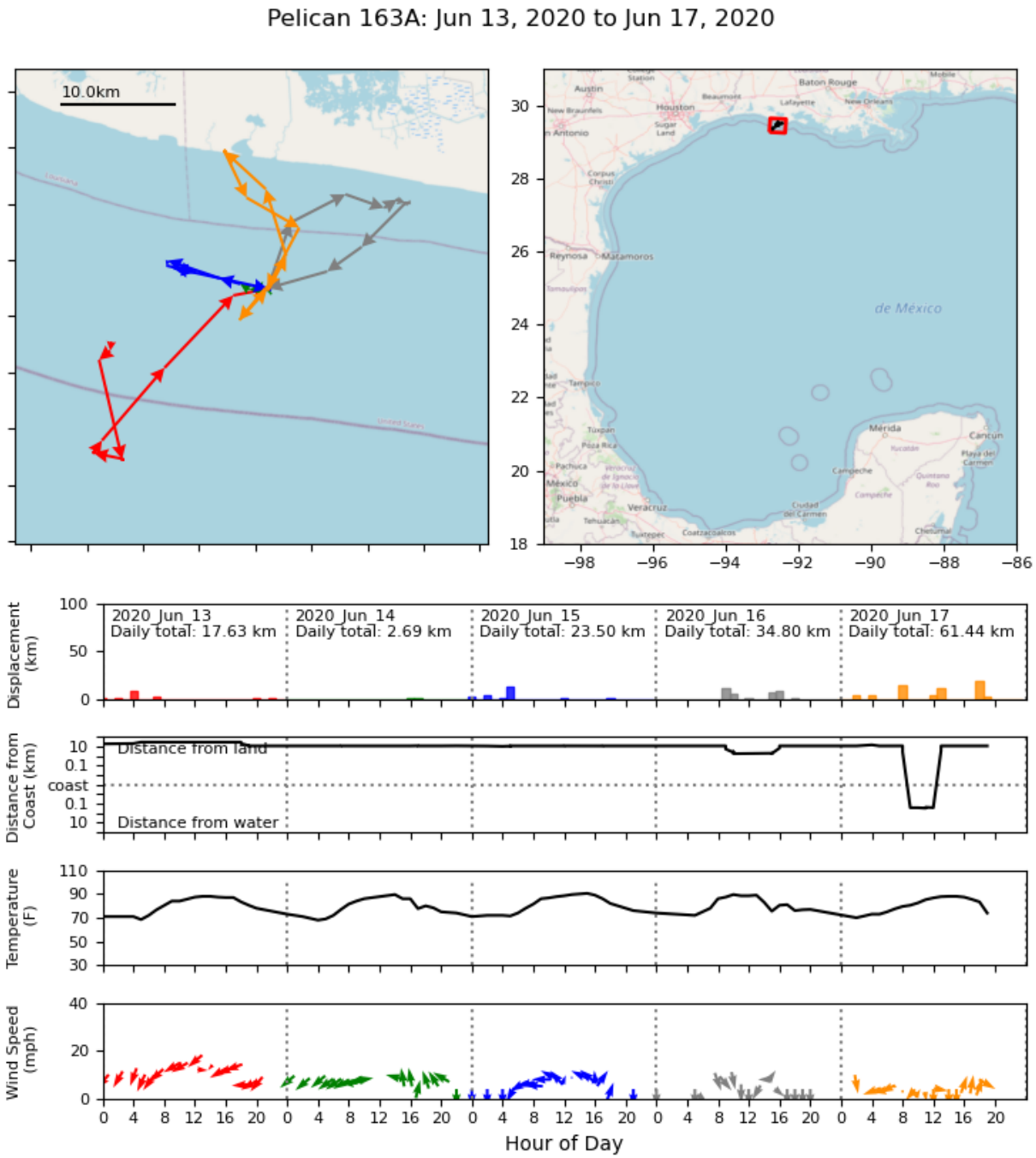

Figure 613 - Maps and graphs showing movements of 163A between 2020-06-13 and 2020-06-16 inclusive.

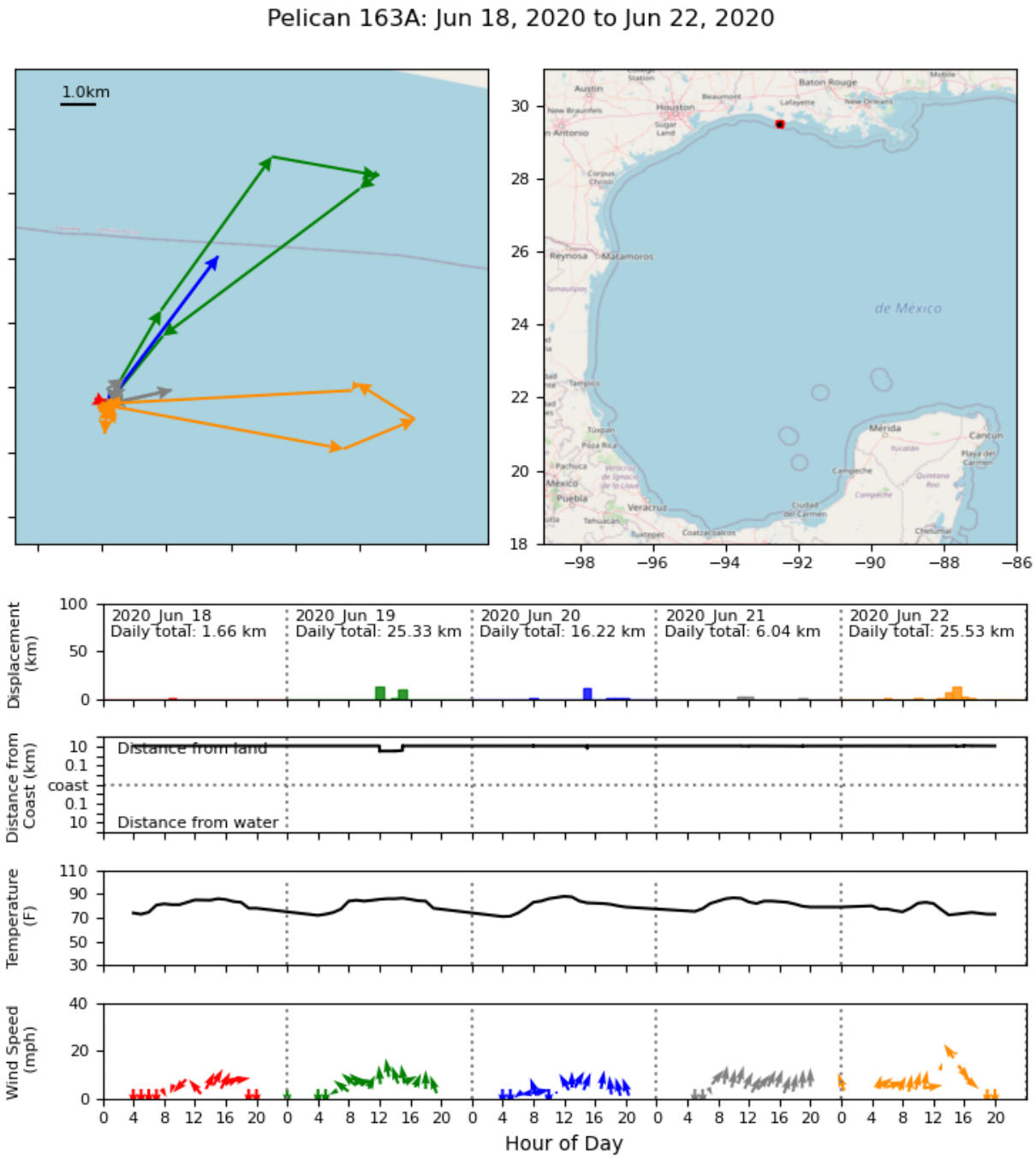

Figure 614 - Maps and graphs showing movements of 163A between 2020-06-18 and 2020-06-21 inclusive.

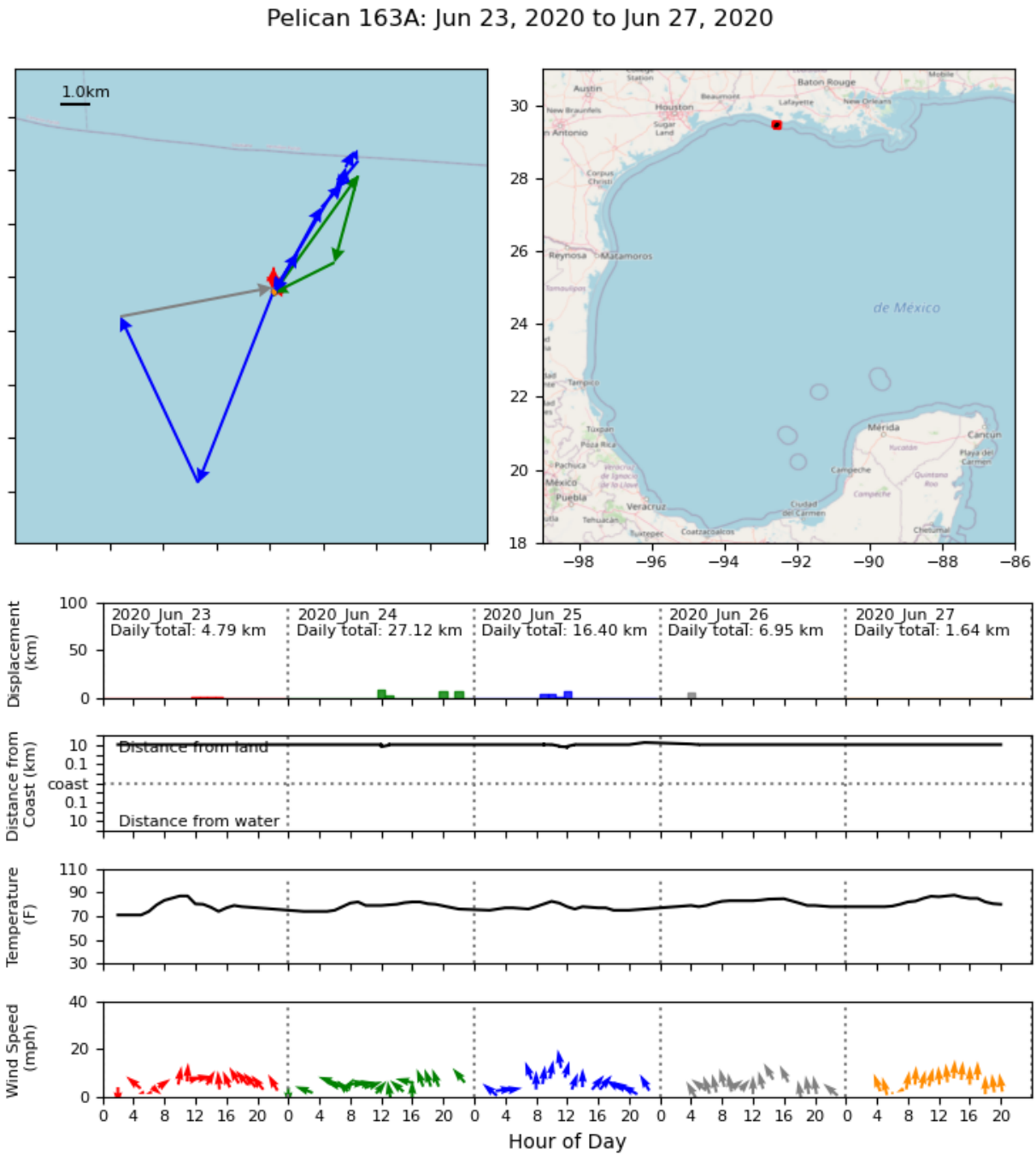

Figure 615 - Maps and graphs showing movements of 163A between 2020-06-23 and 2020-06-26 inclusive.

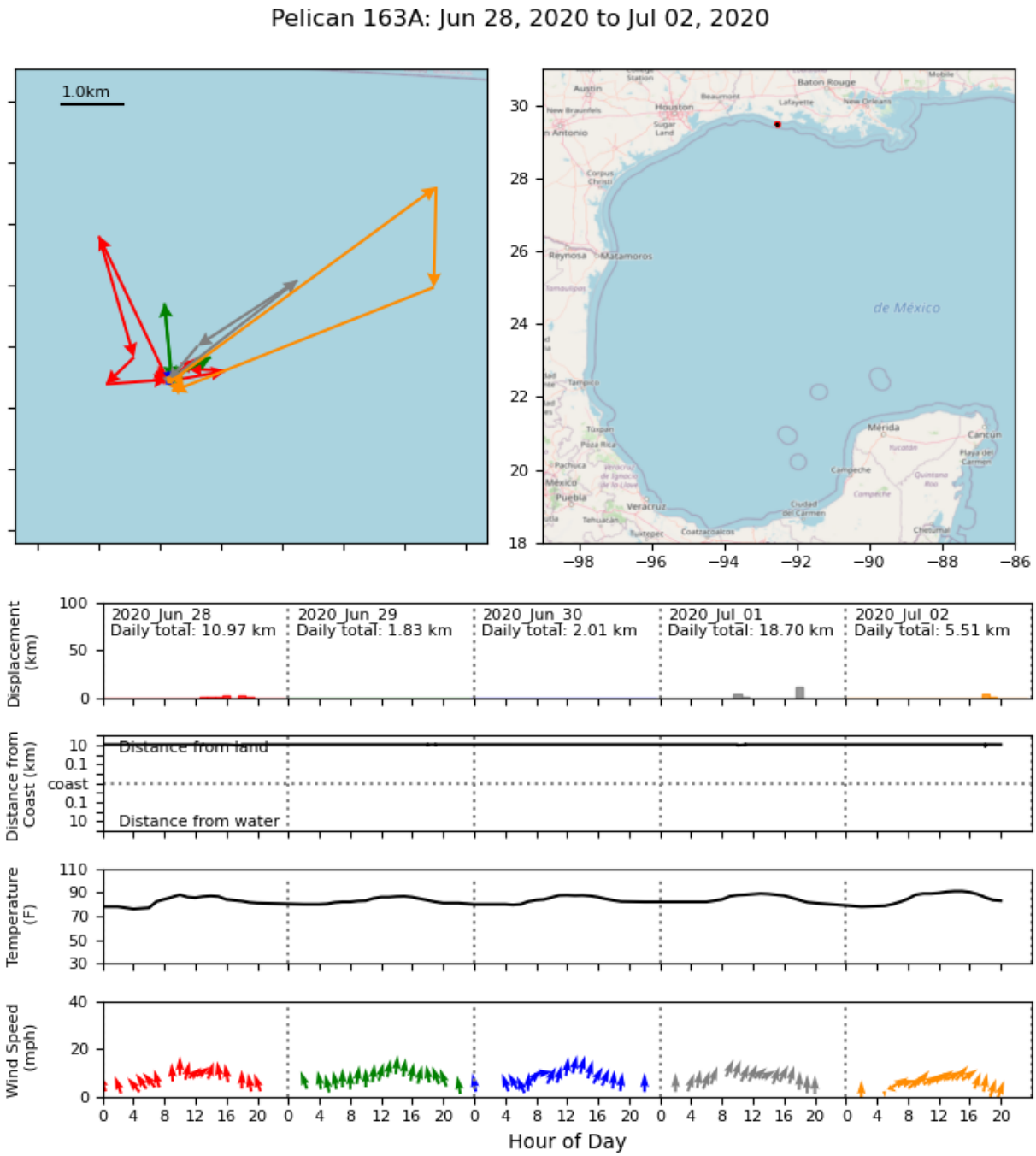

Figure 616 - Maps and graphs showing movements of 163A between 2020-06-28 and 2020-07-01 inclusive.

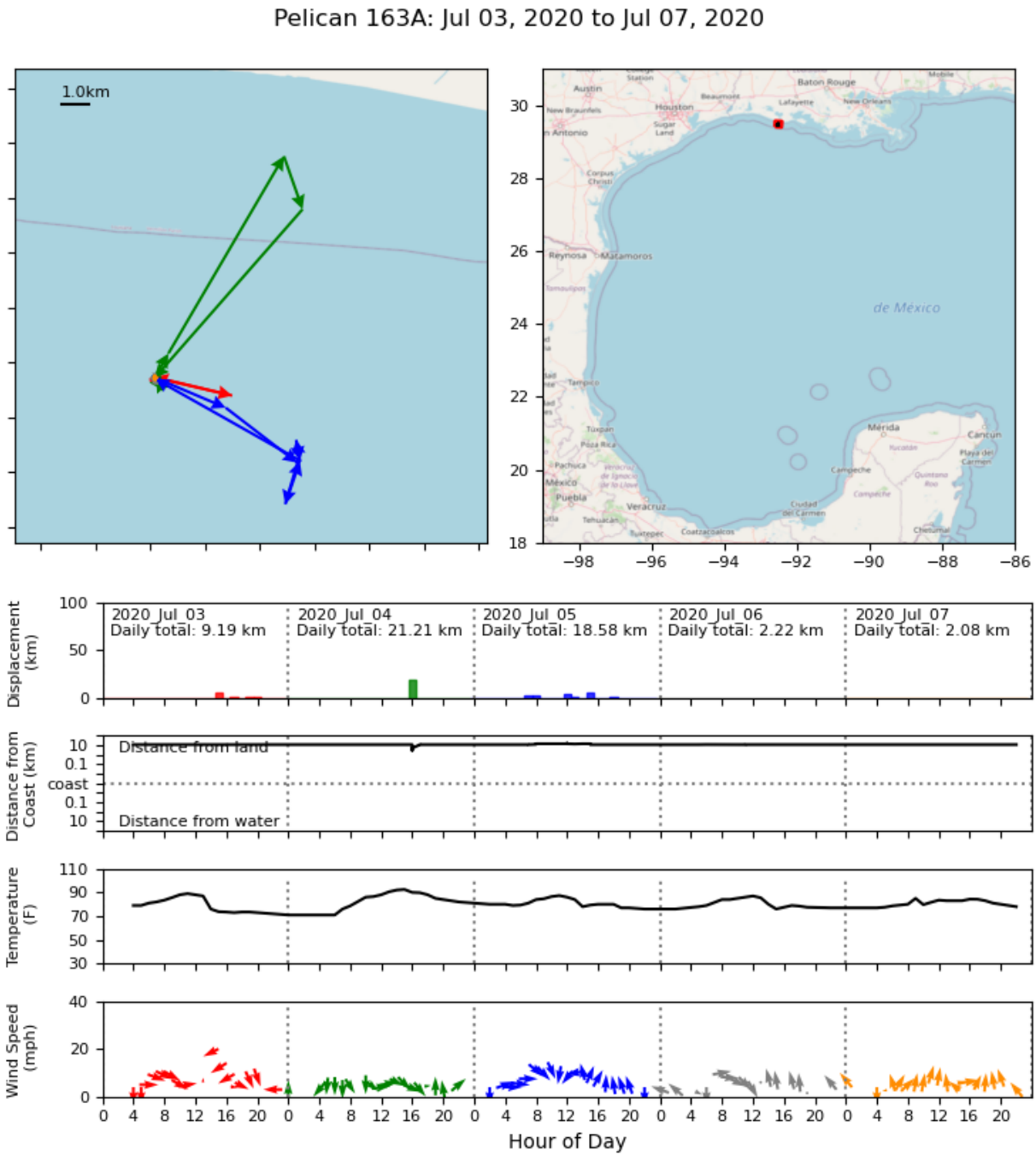

Figure 617 - Maps and graphs showing movements of 163A between 2020-07-03 and 2020-07-06 inclusive.

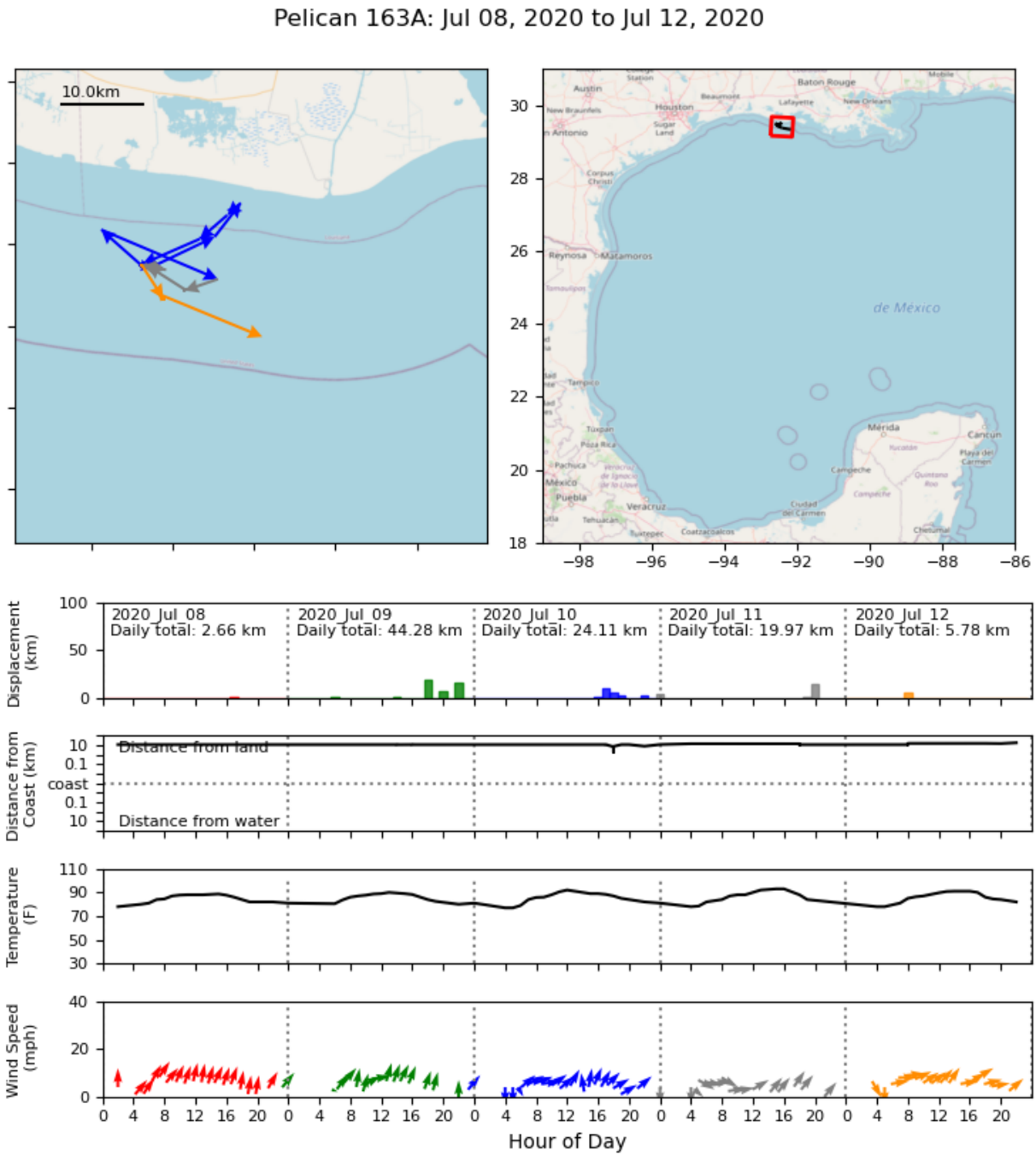

Figure 618 - Maps and graphs showing movements of 163A between 2020-07-08 and 2020-07-11 inclusive.

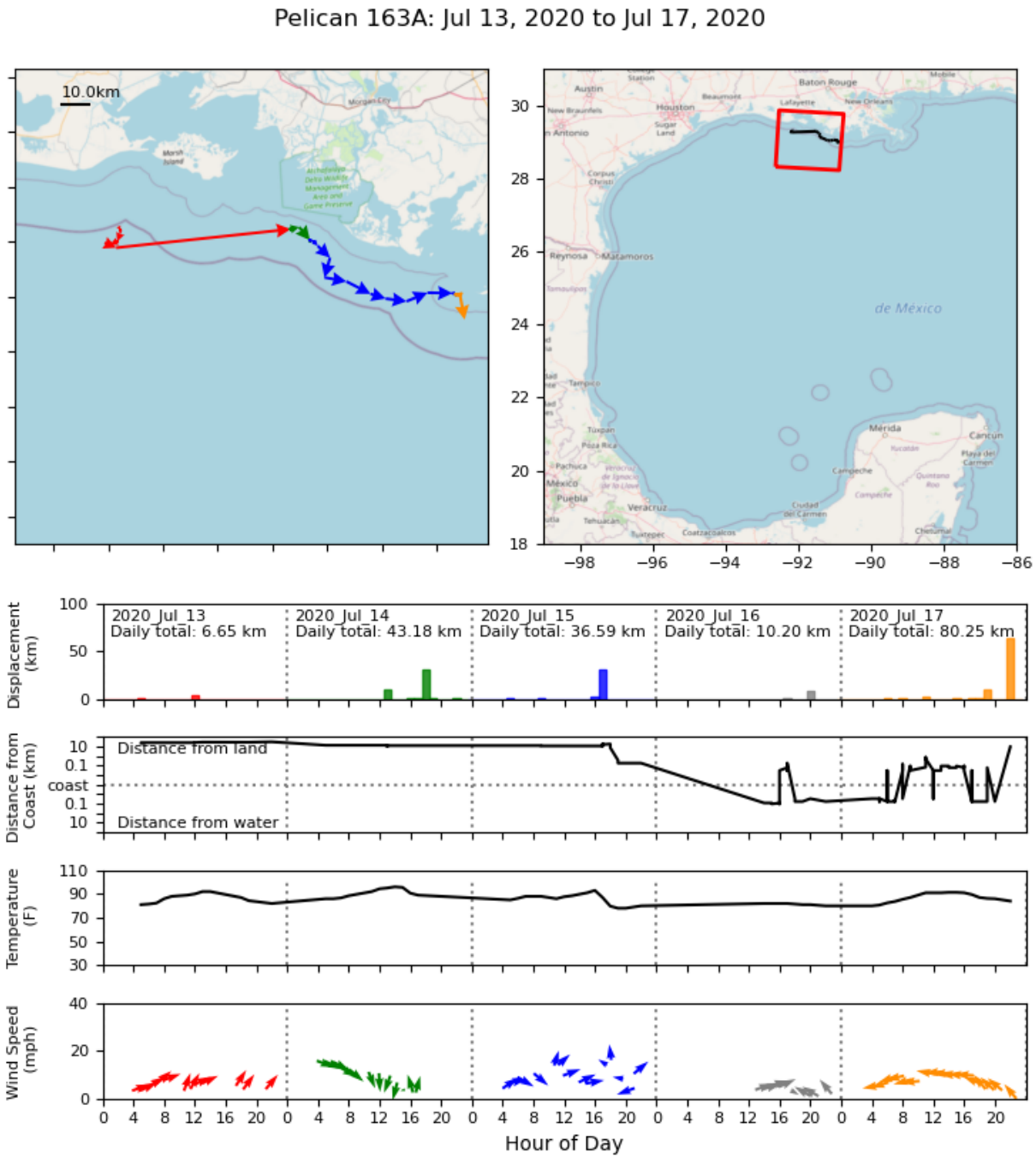

Figure 619 - Maps and graphs showing movements of 163A between 2020-07-13 and 2020-07-16 inclusive.

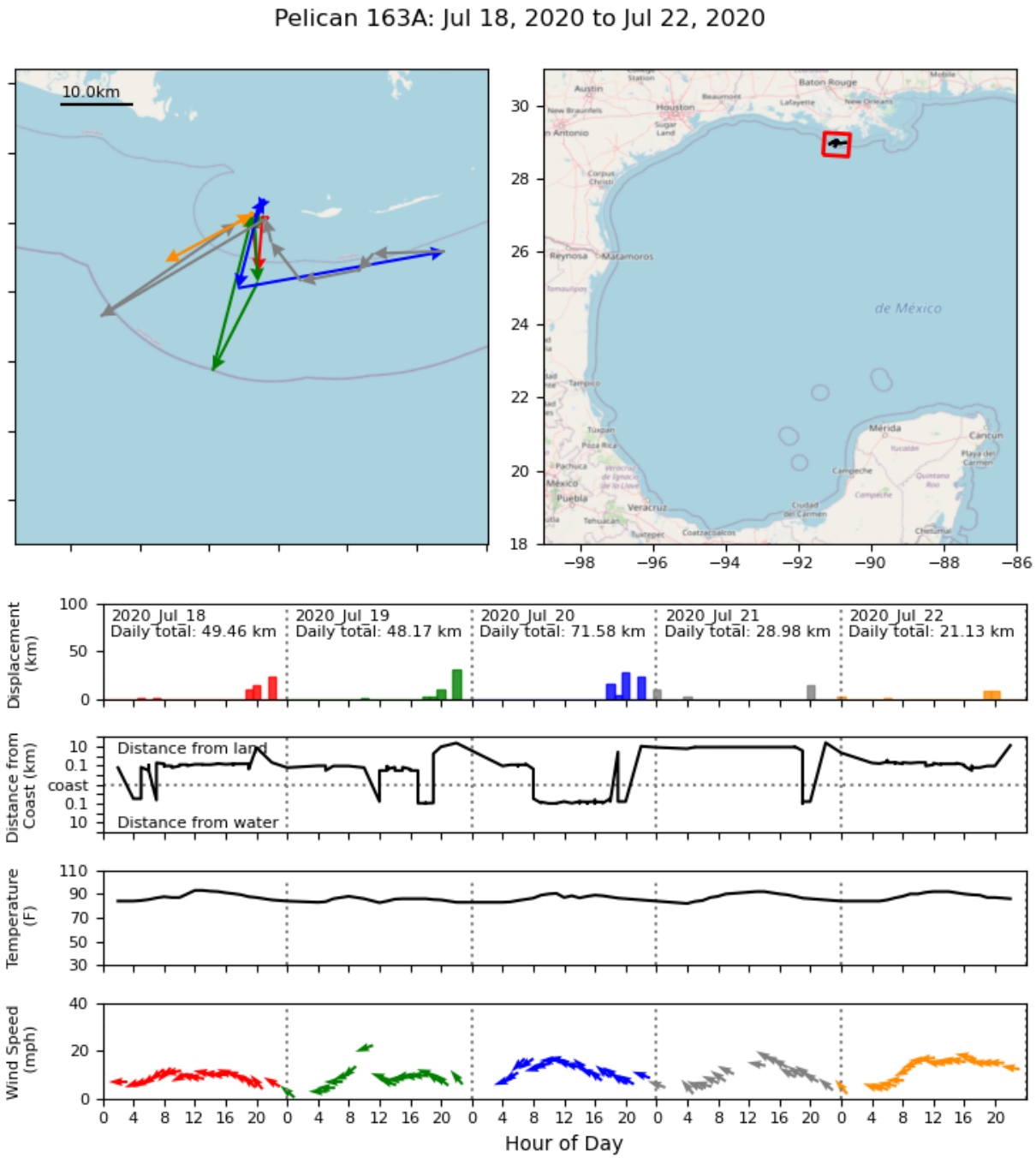

Figure 620 - Maps and graphs showing movements of 163A between 2020-07-18 and 2020-07-21 inclusive.

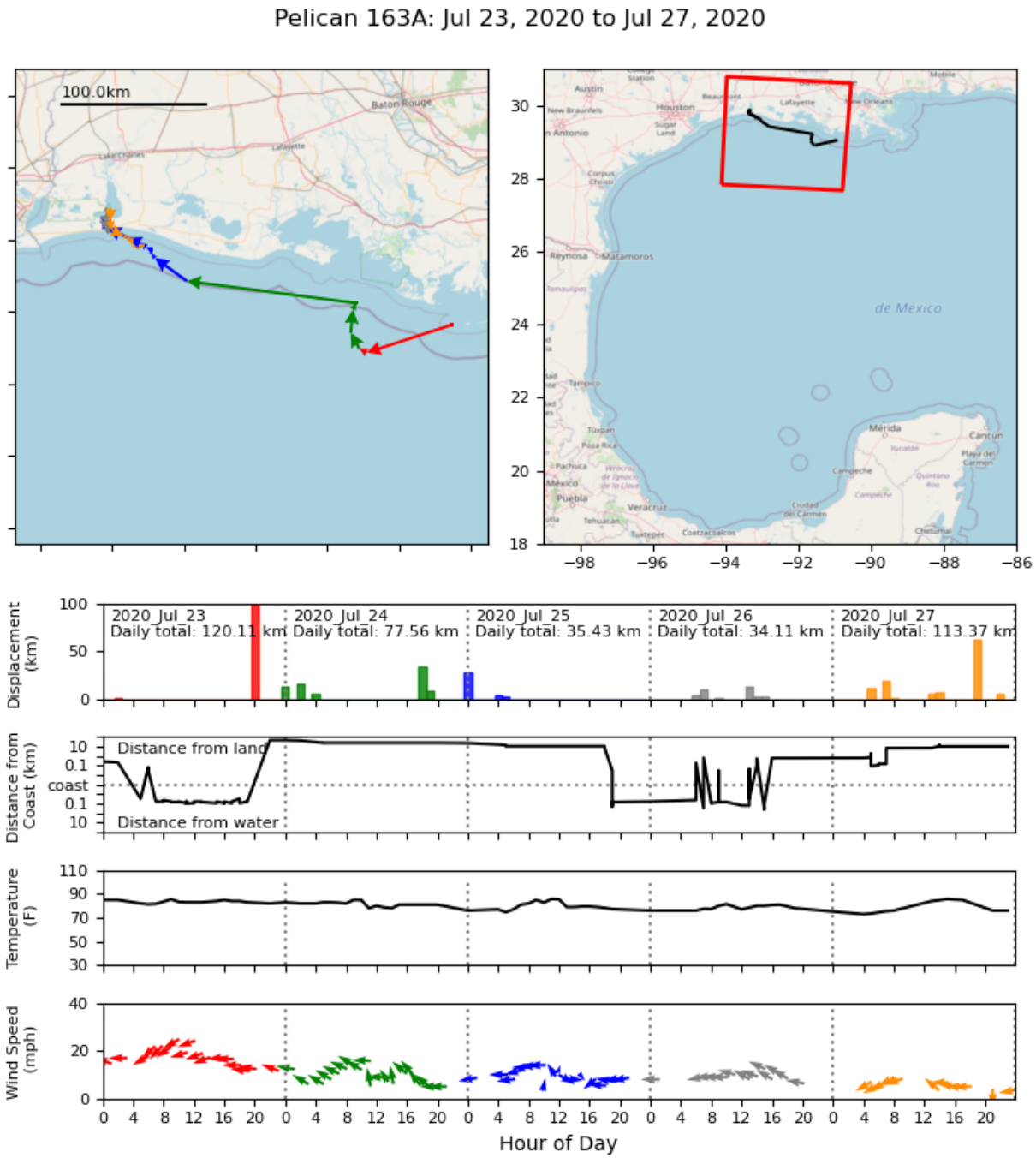

Figure 621 - Maps and graphs showing movements of 163A between 2020-07-23 and 2020-07-26 inclusive.

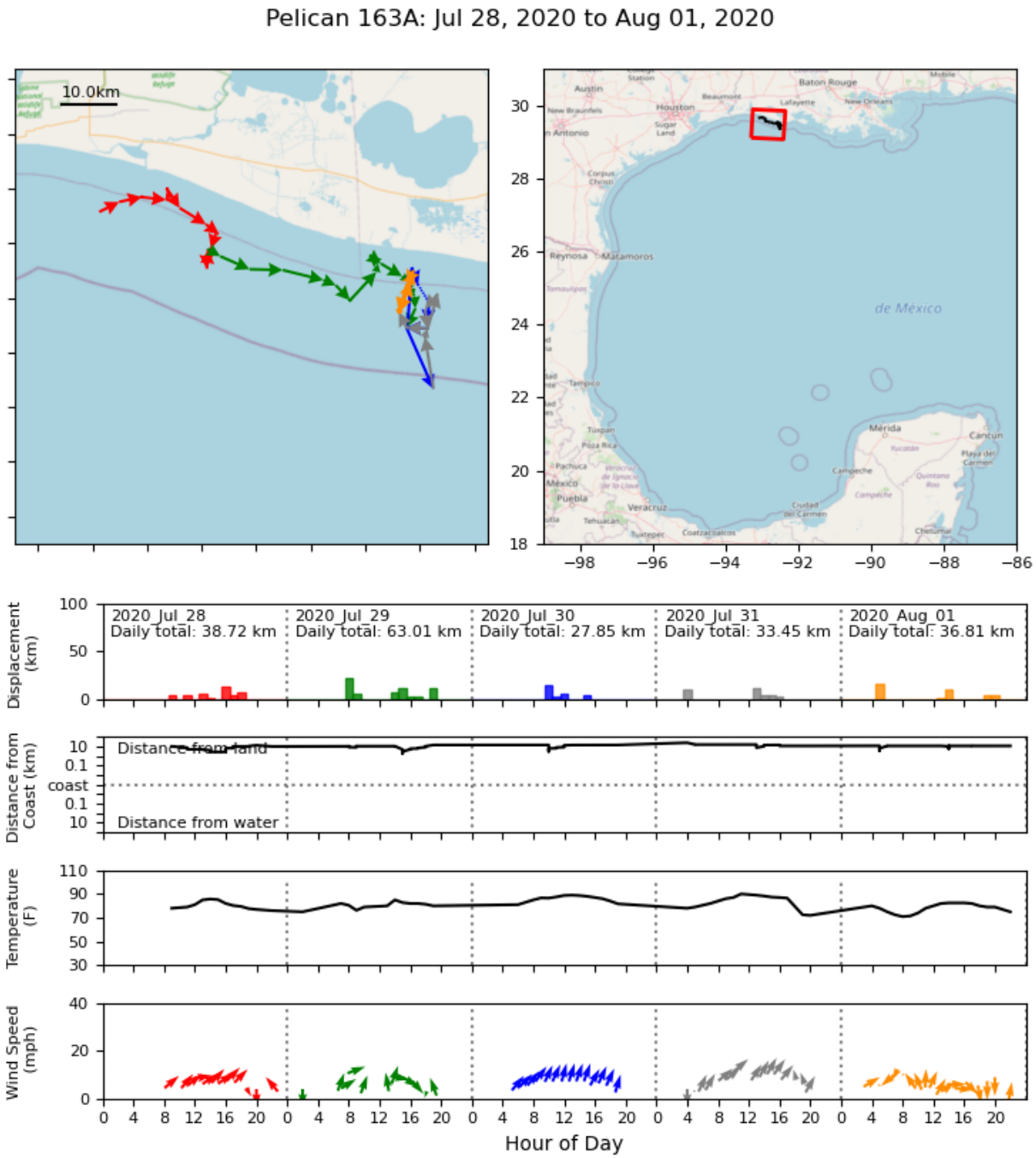

Figure 622 - Maps and graphs showing movements of 163A between 2020-07-28 and 2020-07-31 inclusive.

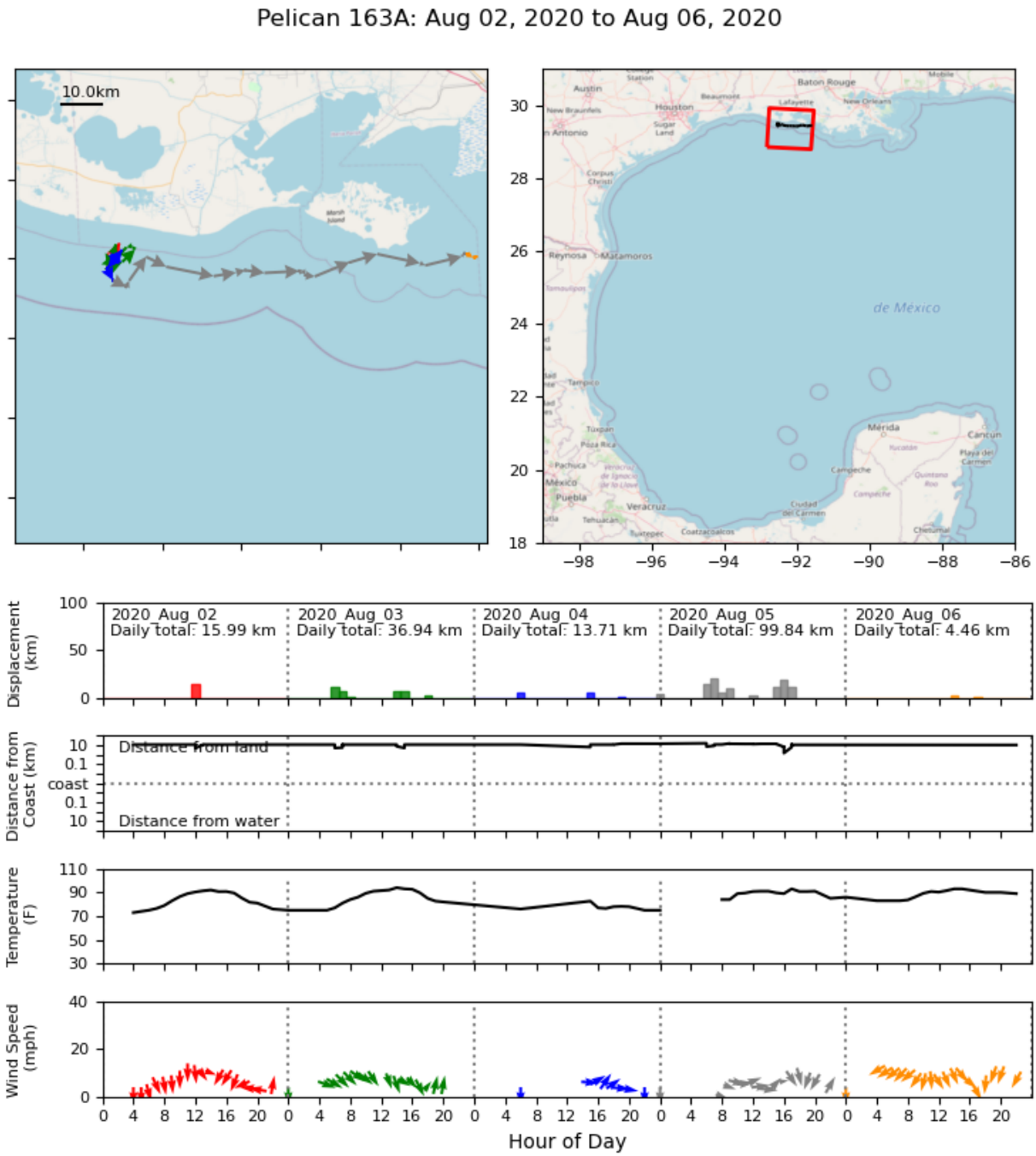

Figure 623 - Maps and graphs showing movements of 163A between 2020-08-02 and 2020-08-05 inclusive.

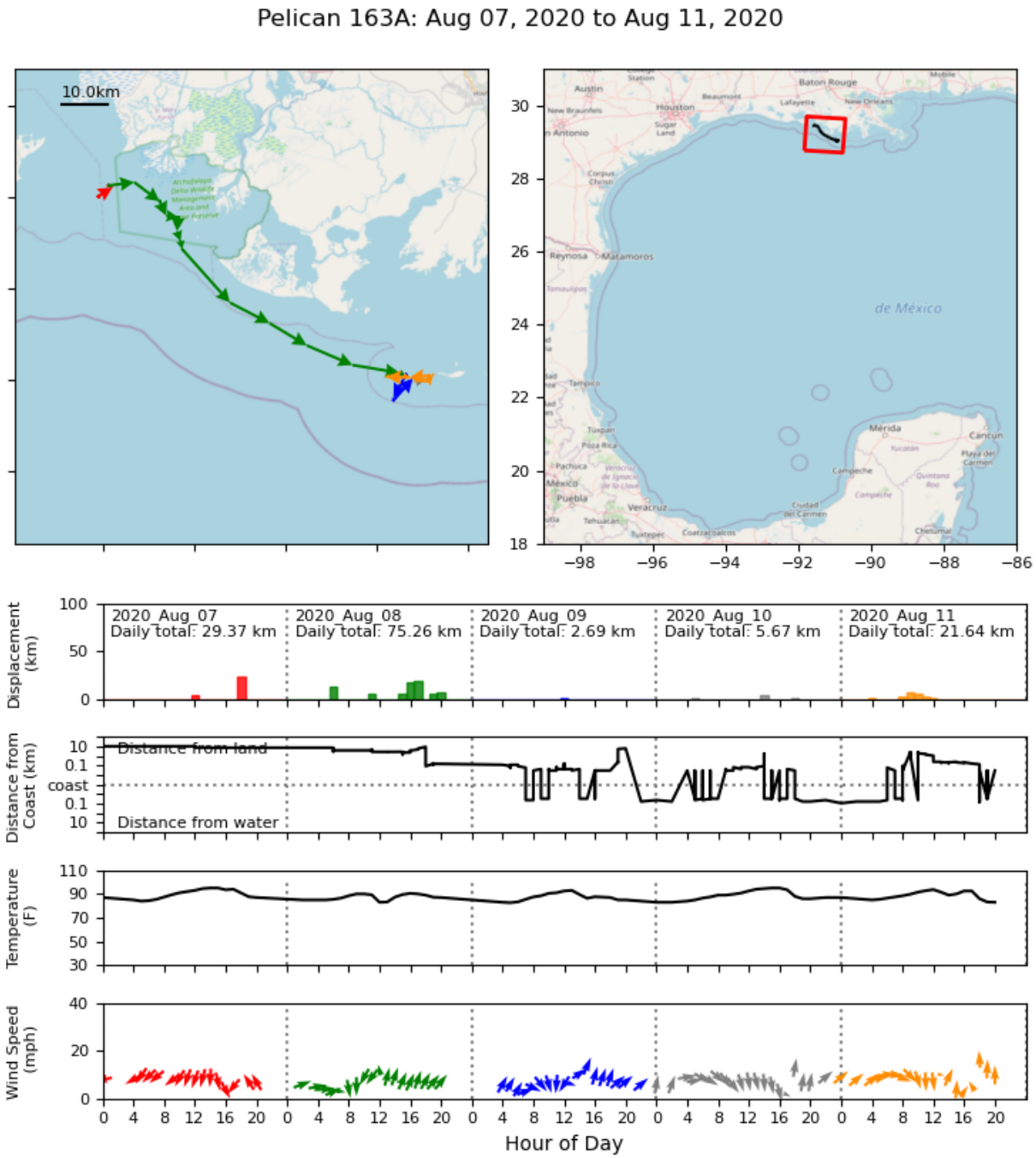

Figure 624 - Maps and graphs showing movements of 163A between 2020-08-07 and 2020-08-10 inclusive.

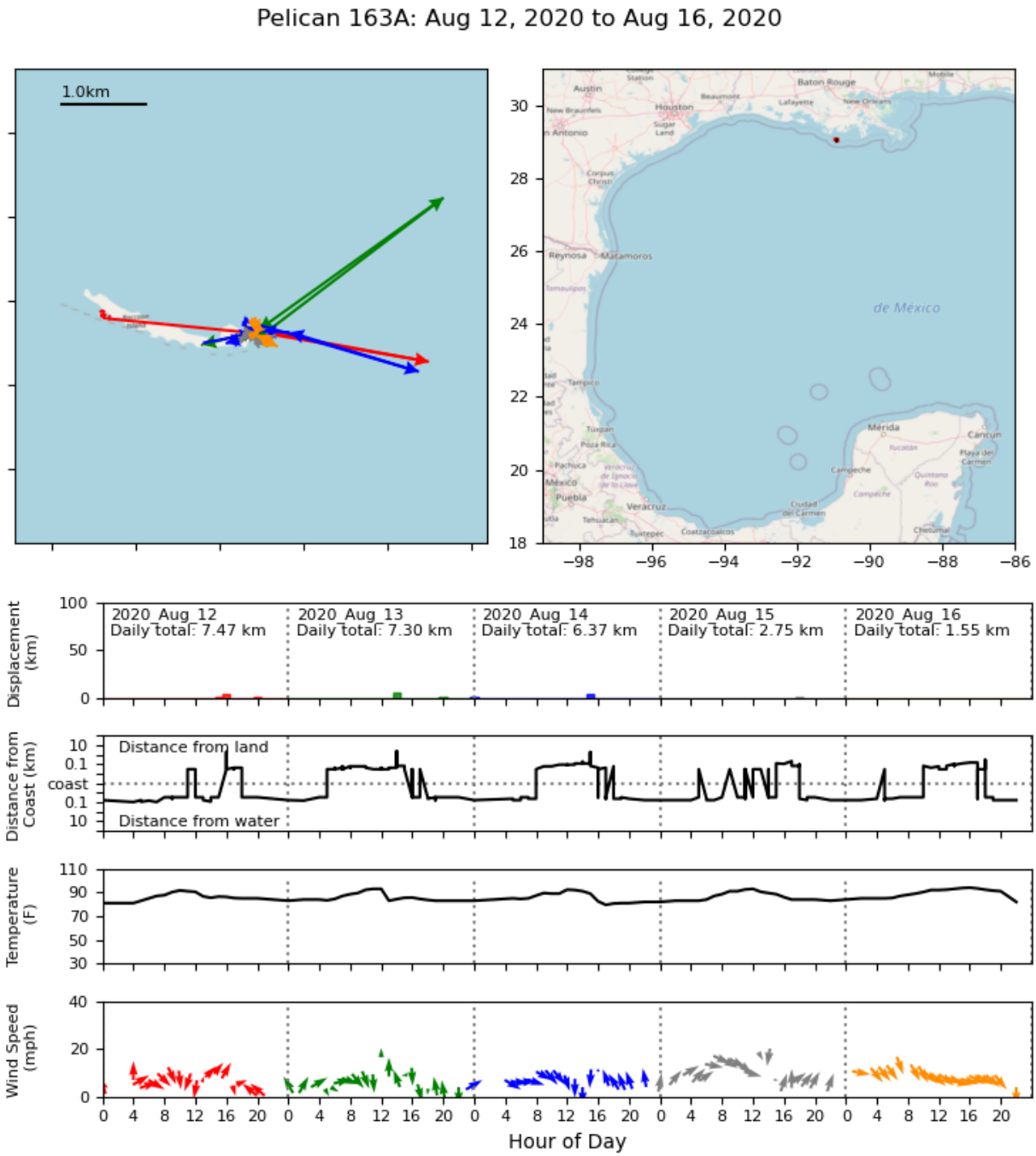

Figure 625 - Maps and graphs showing movements of 163A between 2020-08-12 and 2020-08-15 inclusive.

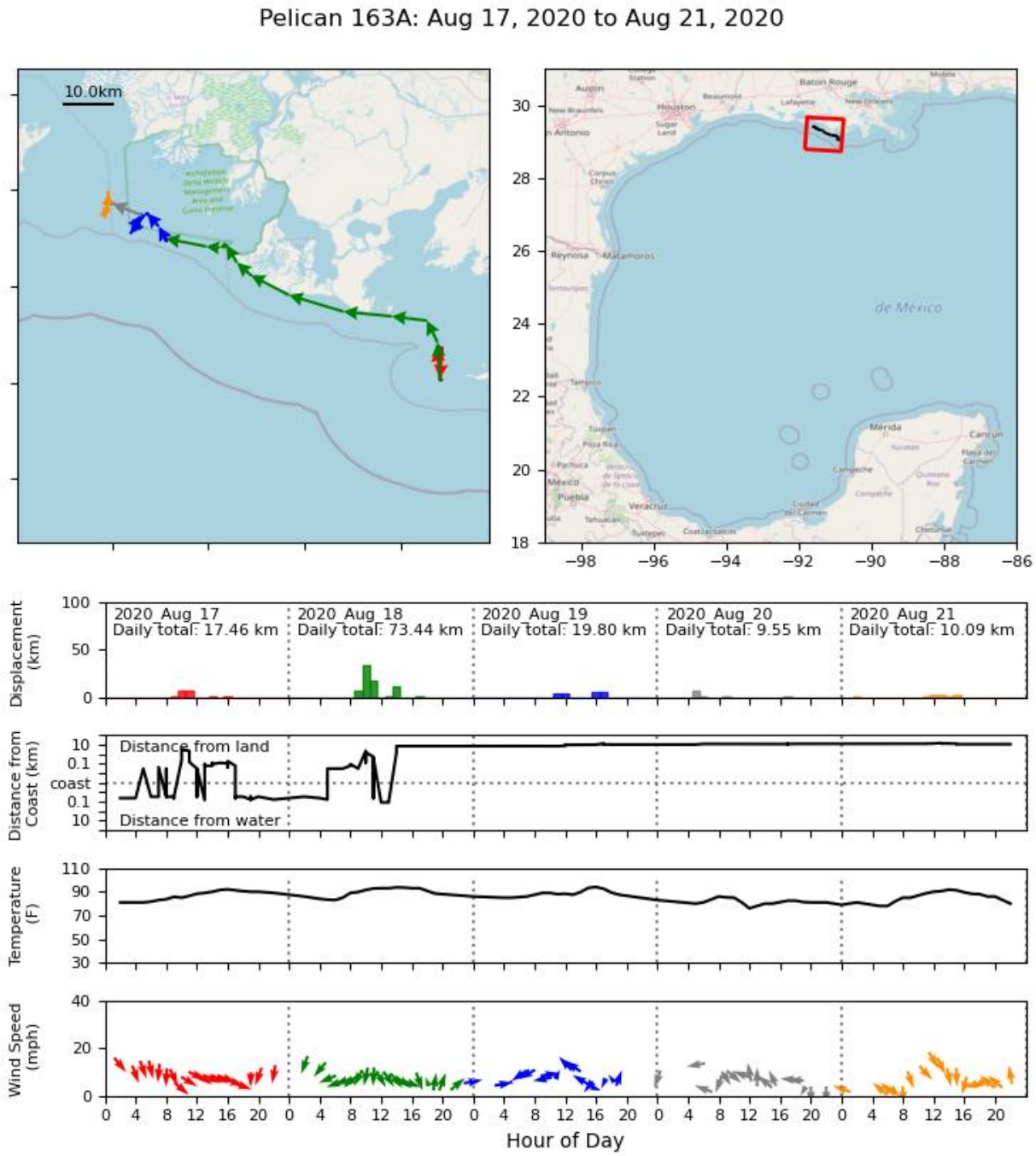

Figure 626 - Maps and graphs showing movements of 163A between 2020-08-17 and 2020-08-20 inclusive.

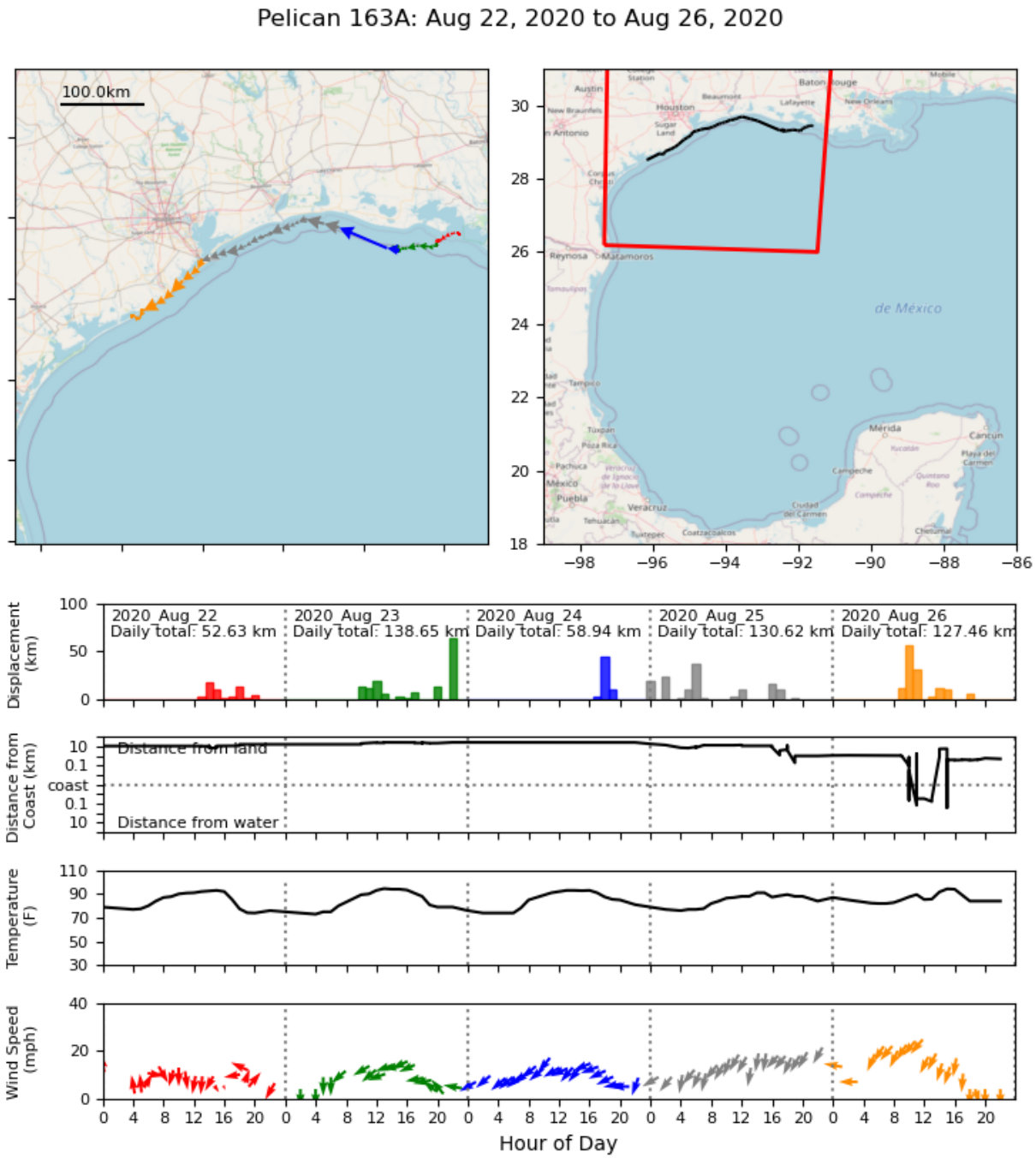

Figure 627 - Maps and graphs showing movements of 163A between 2020-08-22 and 2020-08-25 inclusive.

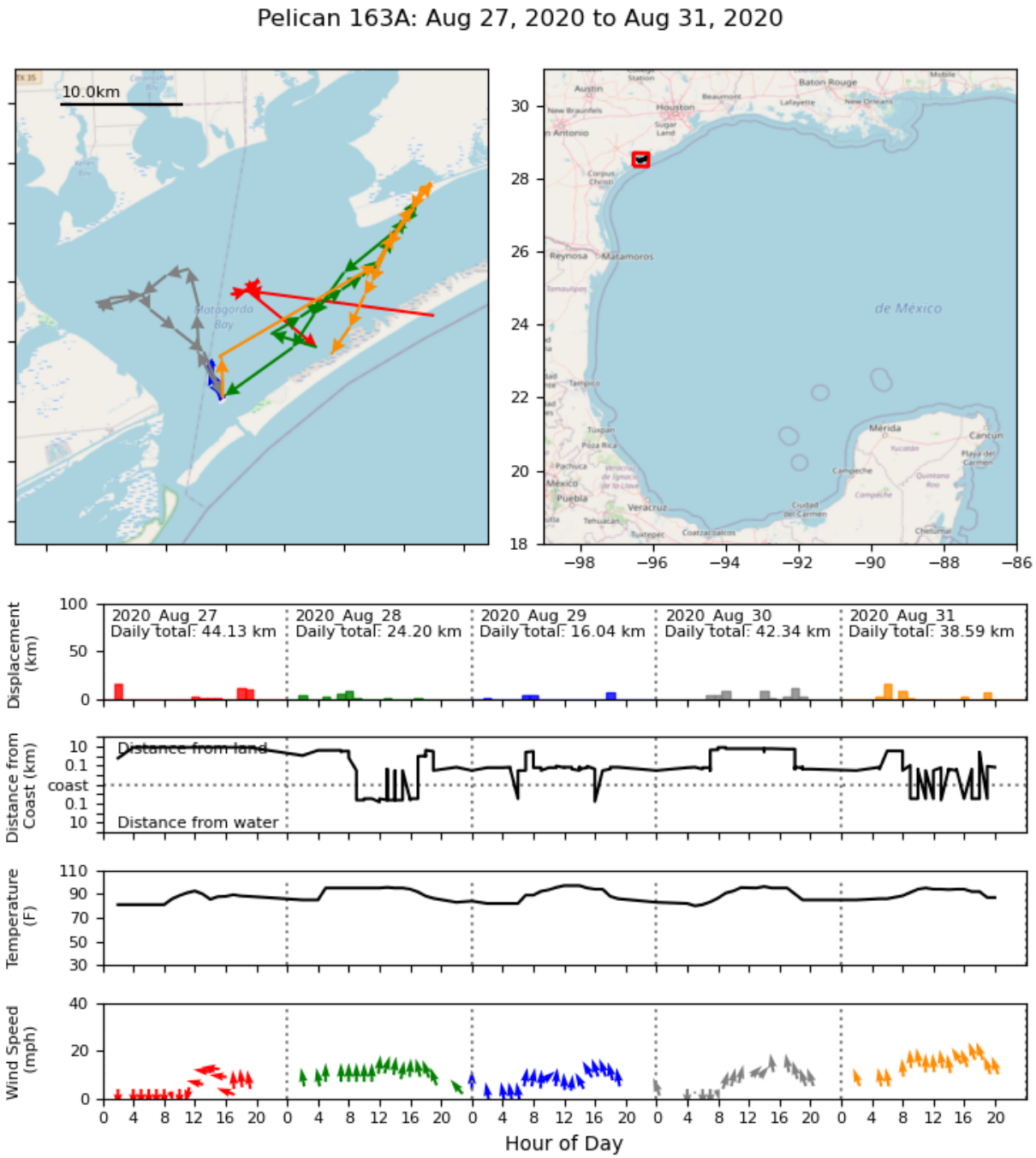

Figure 628 - Maps and graphs showing movements of 163A between 2020-08-27 and 2020-08-30 inclusive.

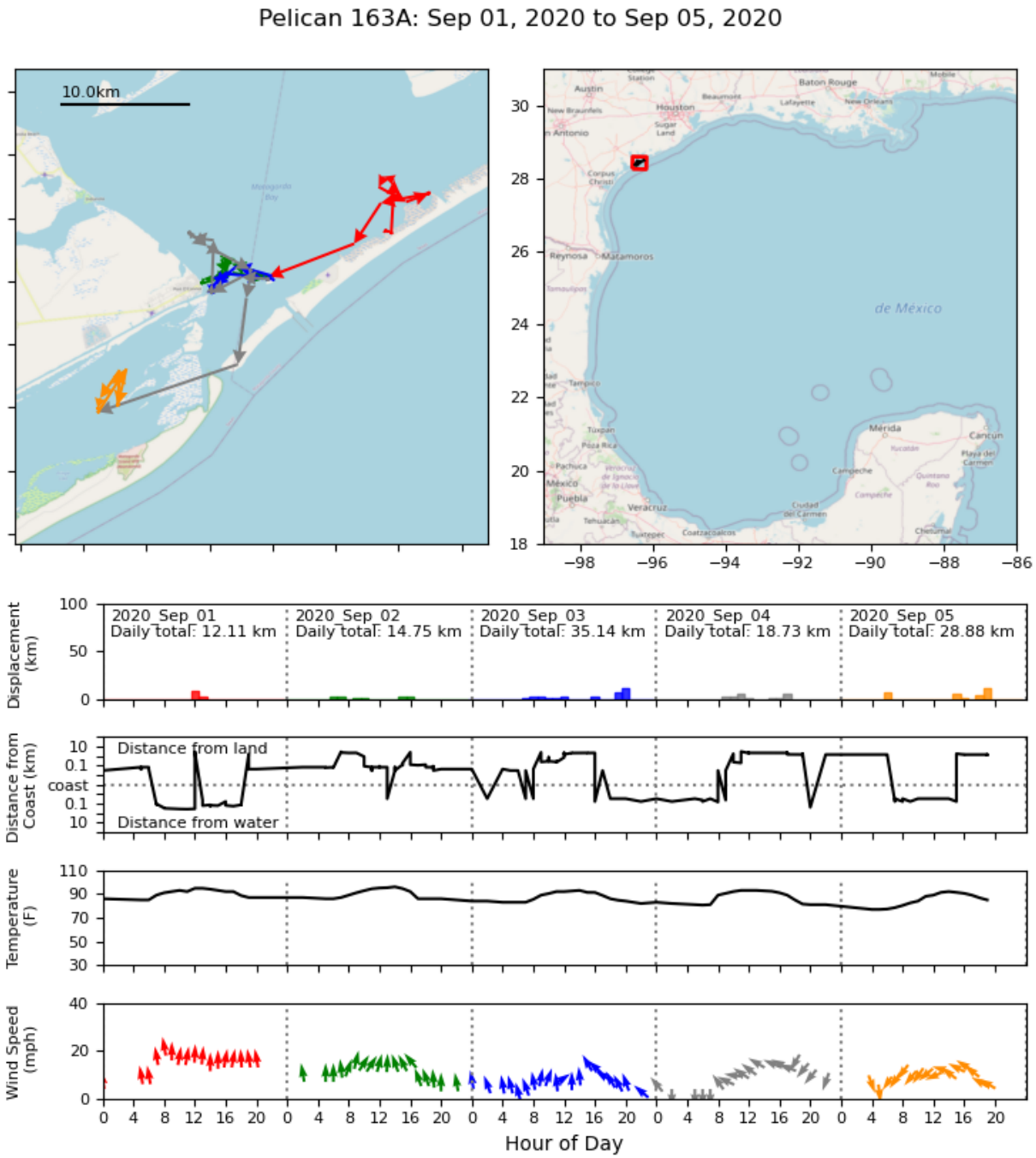

Figure 629 - Maps and graphs showing movements of 163A between 2020-09-01 and 2020-09-04 inclusive.

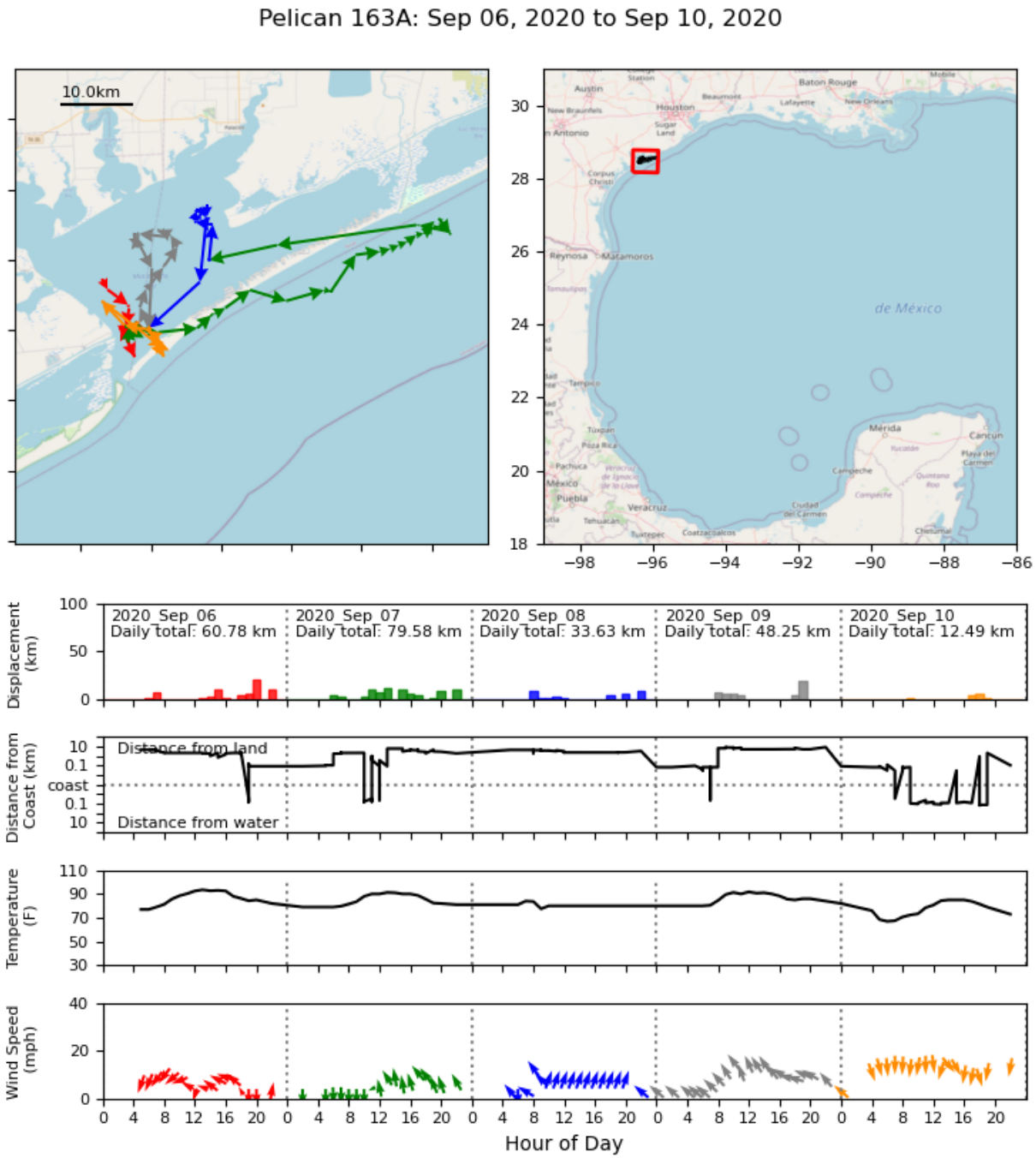

Figure 630 - Maps and graphs showing movements of 163A between 2020-09-06 and 2020-09-09 inclusive.

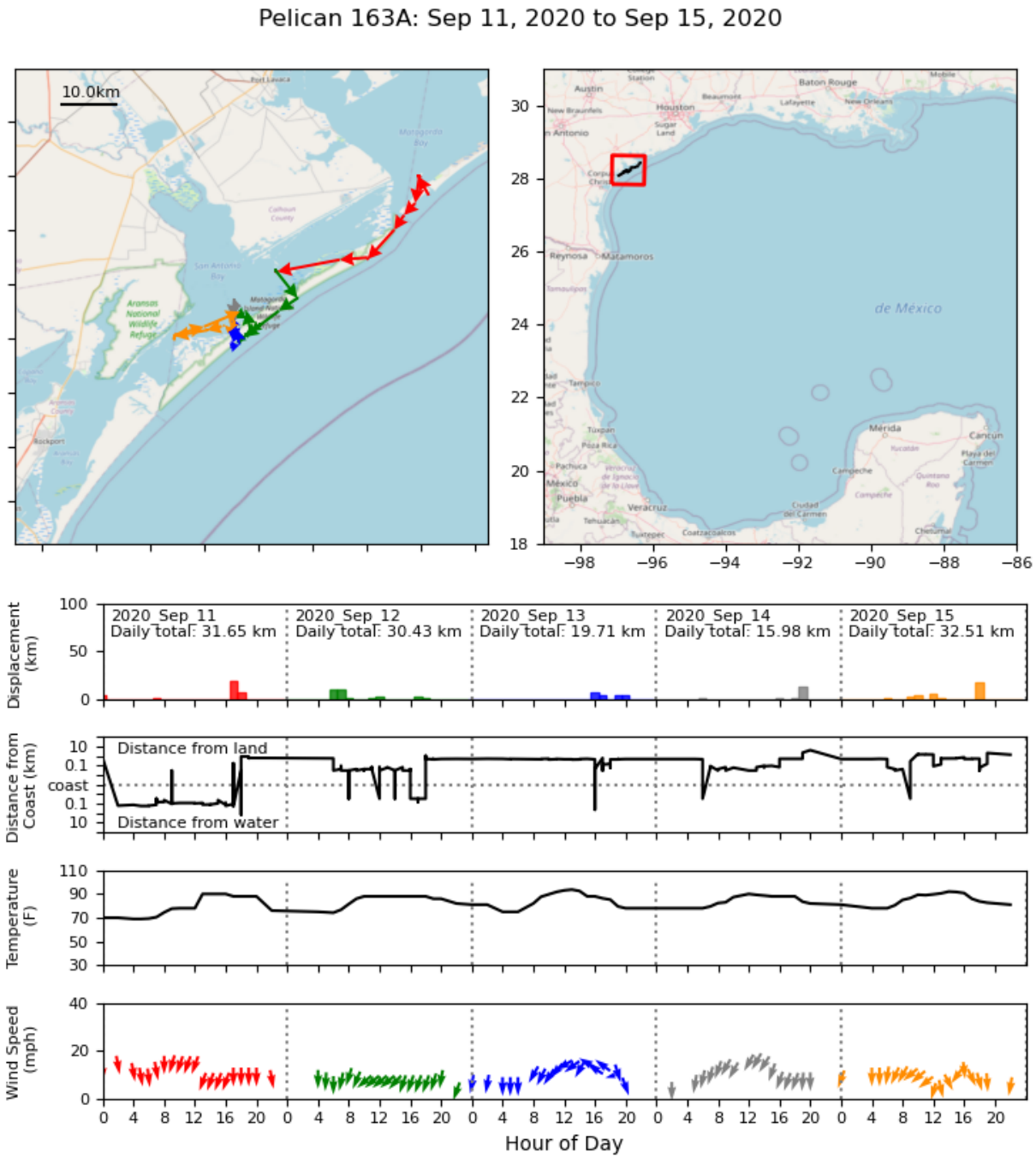

Figure 631 - Maps and graphs showing movements of 163A between 2020-09-11 and 2020-09-14 inclusive.

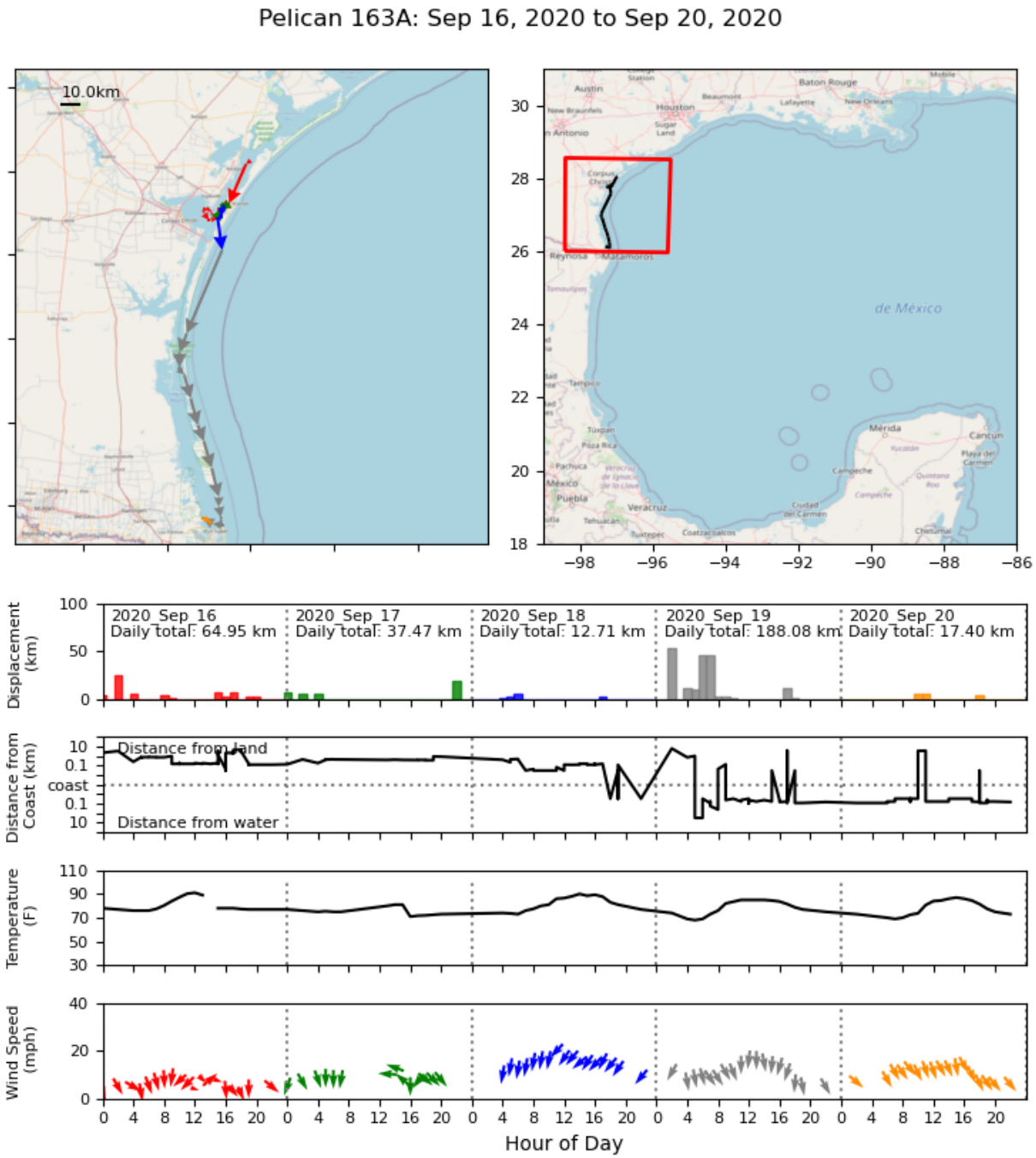

Figure 632 - Maps and graphs showing movements of 163A between 2020-09-16 and 2020-09-19 inclusive.

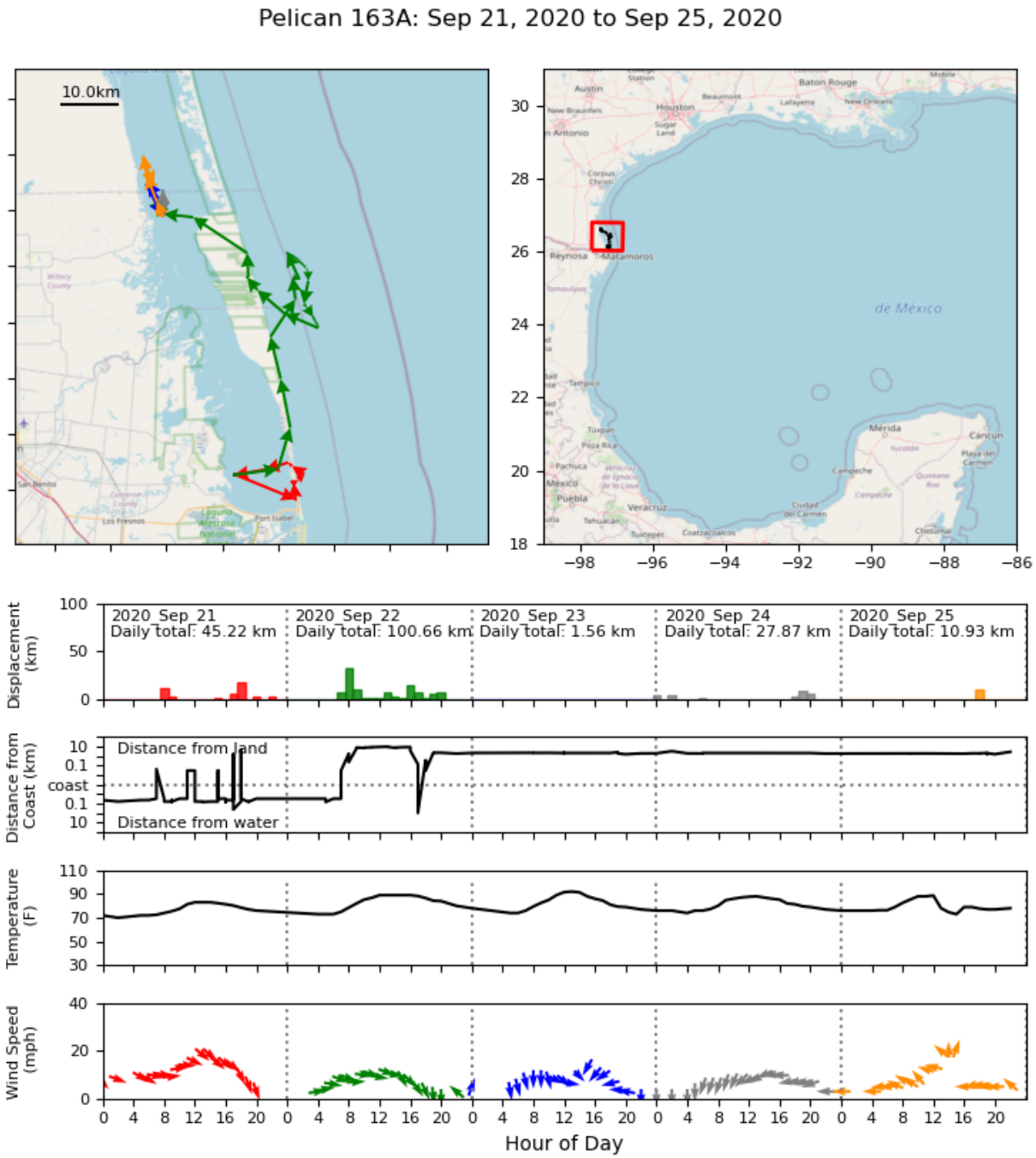

Figure 633 - Maps and graphs showing movements of 163A between 2020-09-21 and 2020-09-24 inclusive.

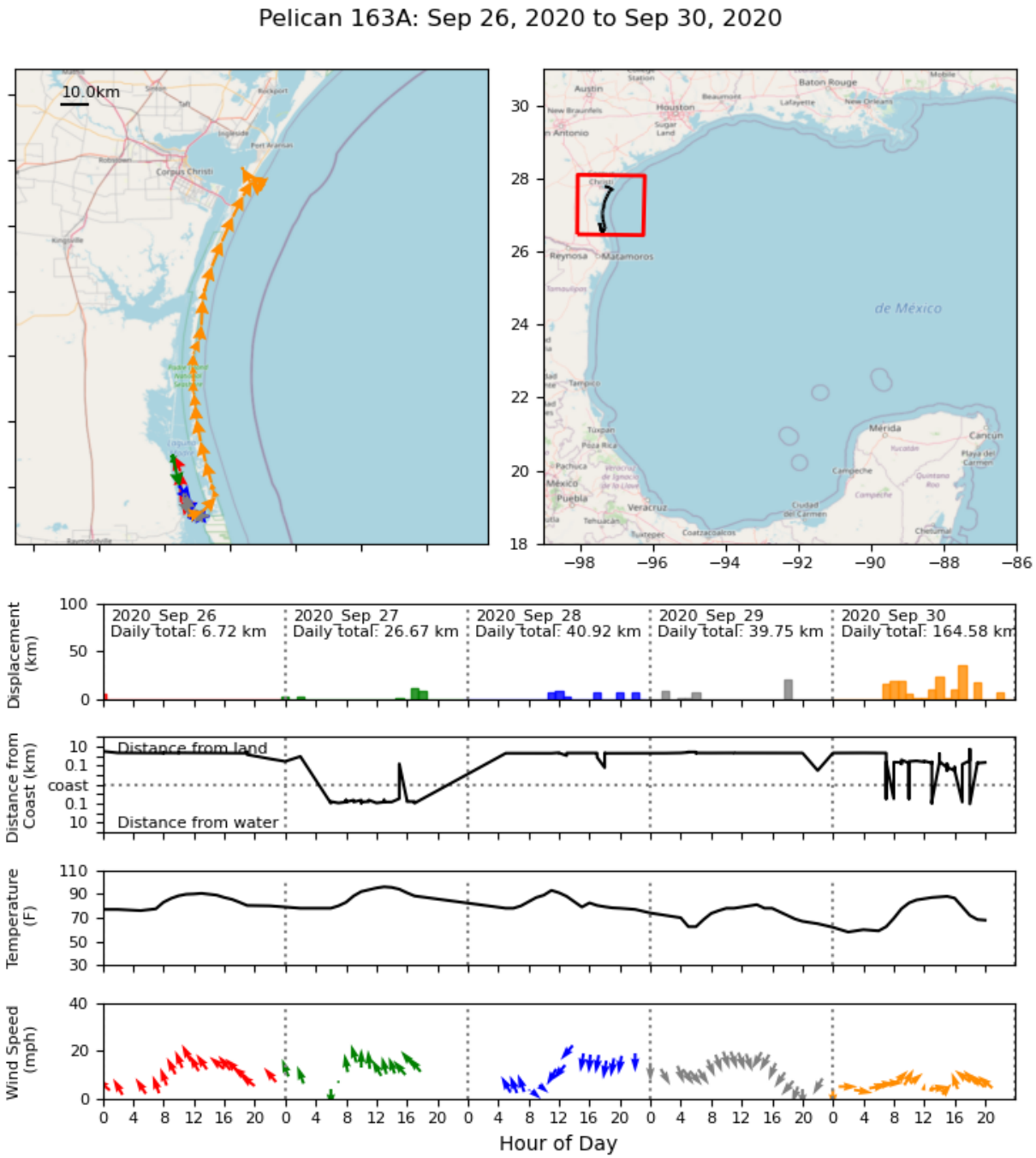

Figure 634 - Maps and graphs showing movements of 163A between 2020-09-26 and 2020-09-29 inclusive.

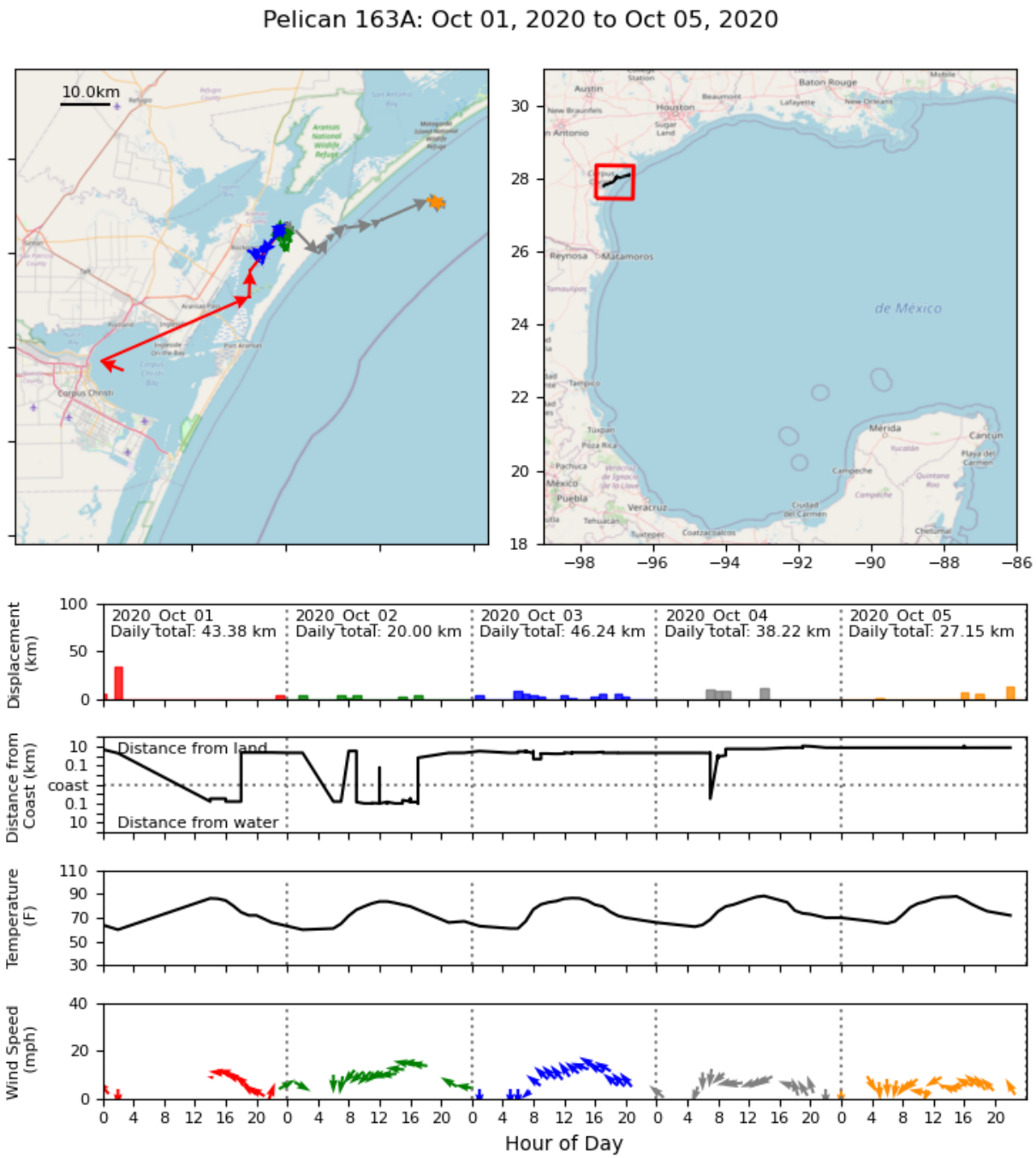

Figure 635 - Maps and graphs showing movements of 163A between 2020-10-01 and 2020-10-04 inclusive.

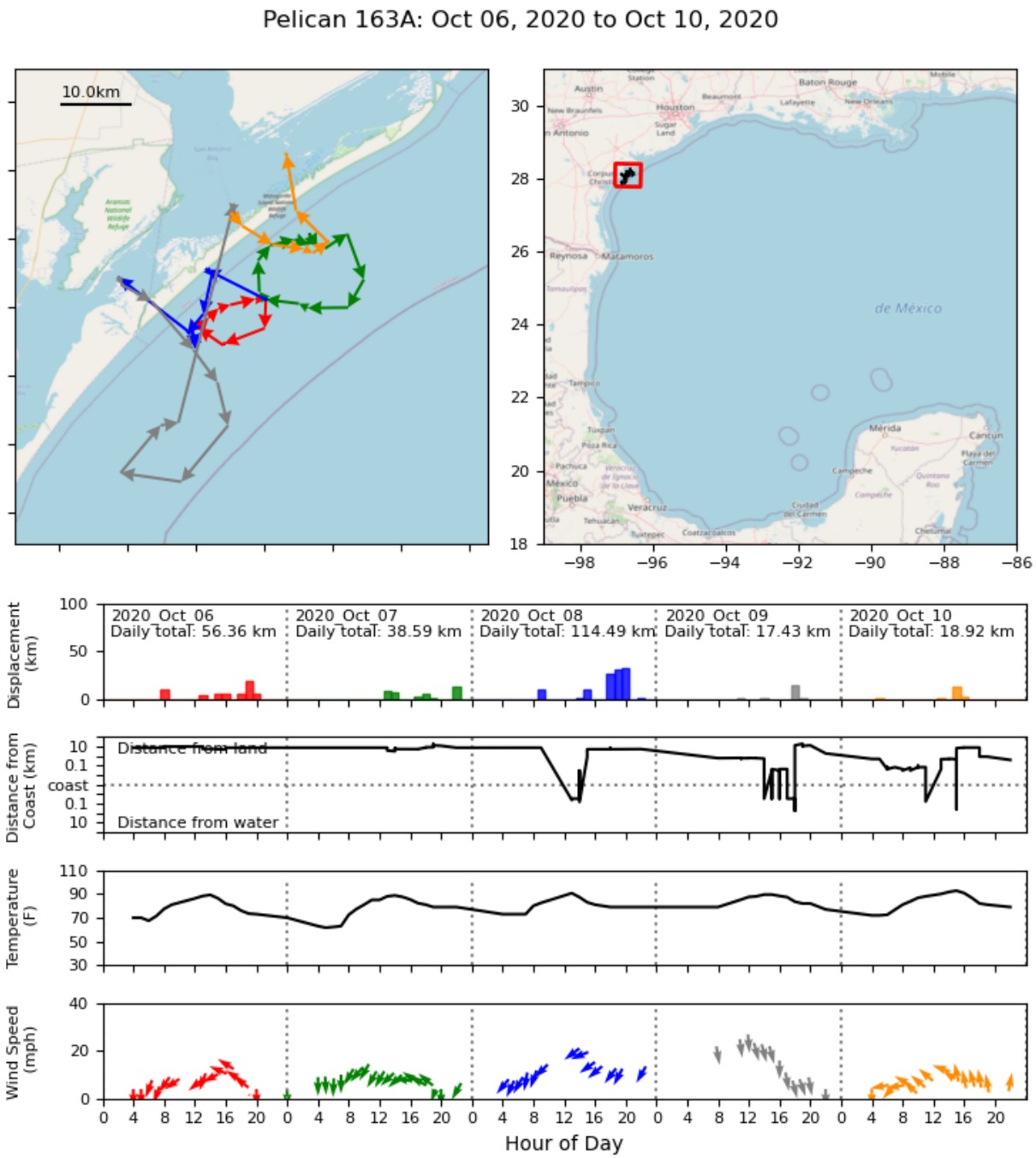

Figure 636 - Maps and graphs showing movements of 163A between 2020-10-06 and 2020-10-09 inclusive.

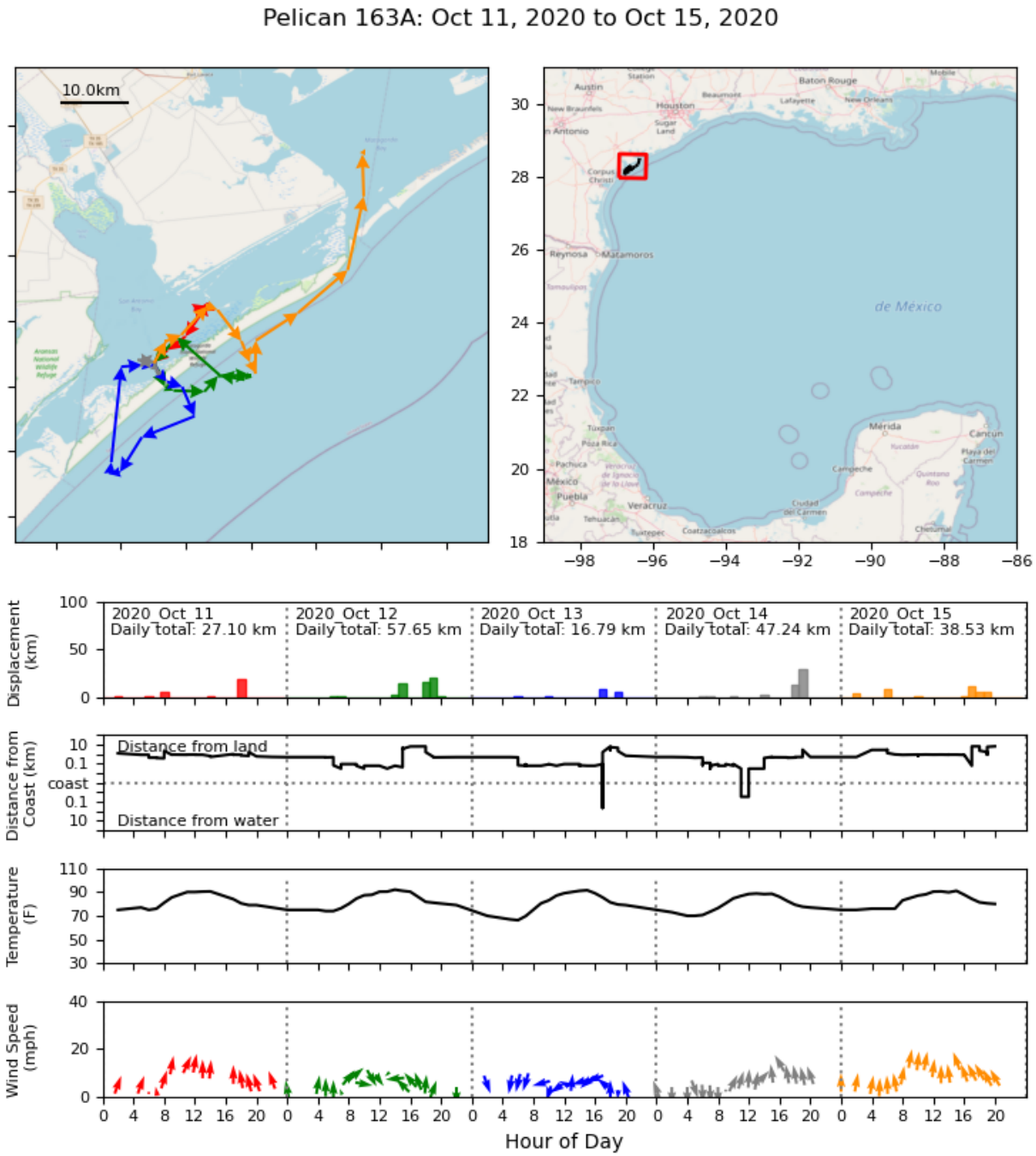

Figure 637 - Maps and graphs showing movements of 163A between 2020-10-11 and 2020-10-14 inclusive.

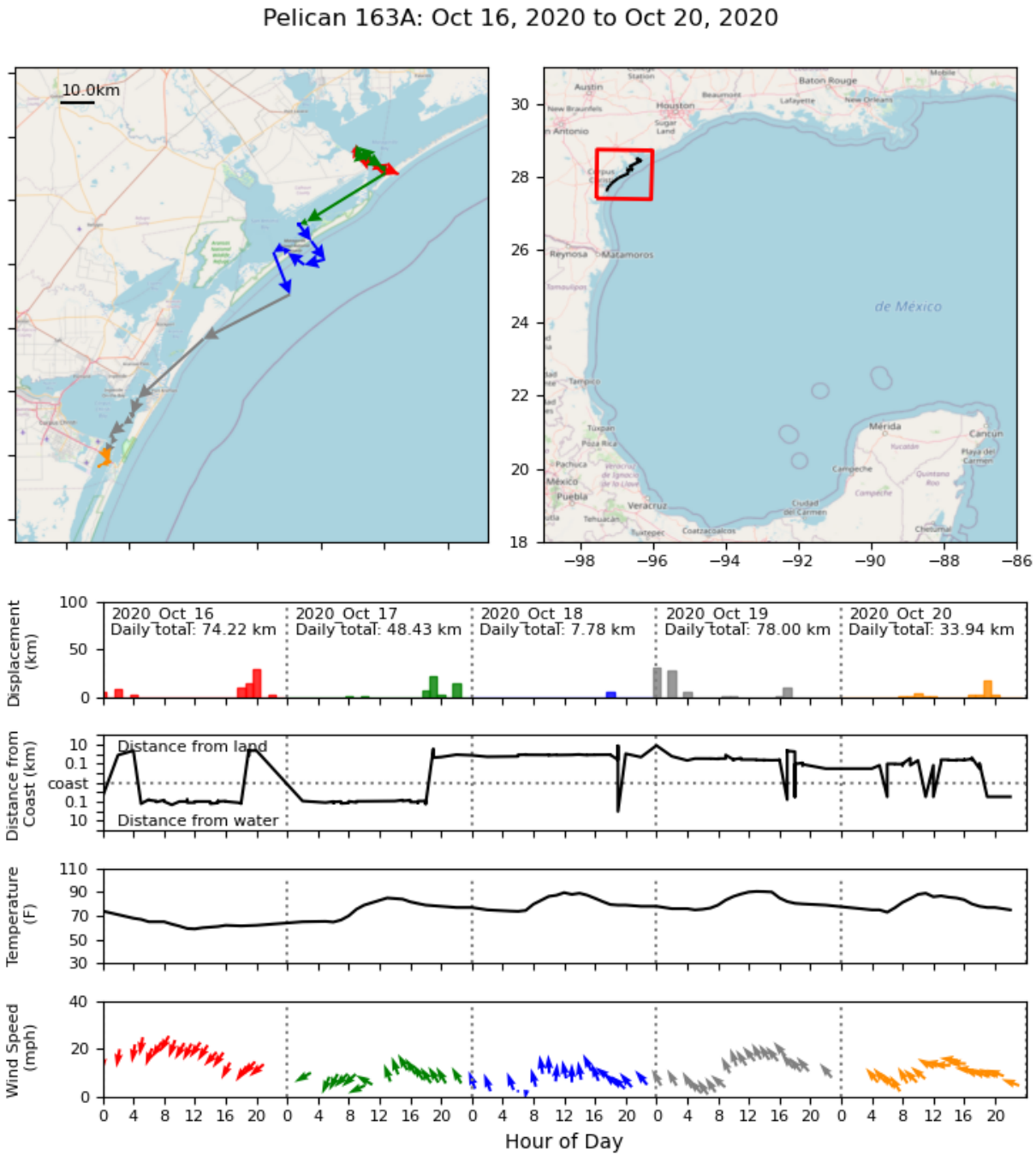

Figure 638 - Maps and graphs showing movements of 163A between 2020-10-16 and 2020-10-19 inclusive.

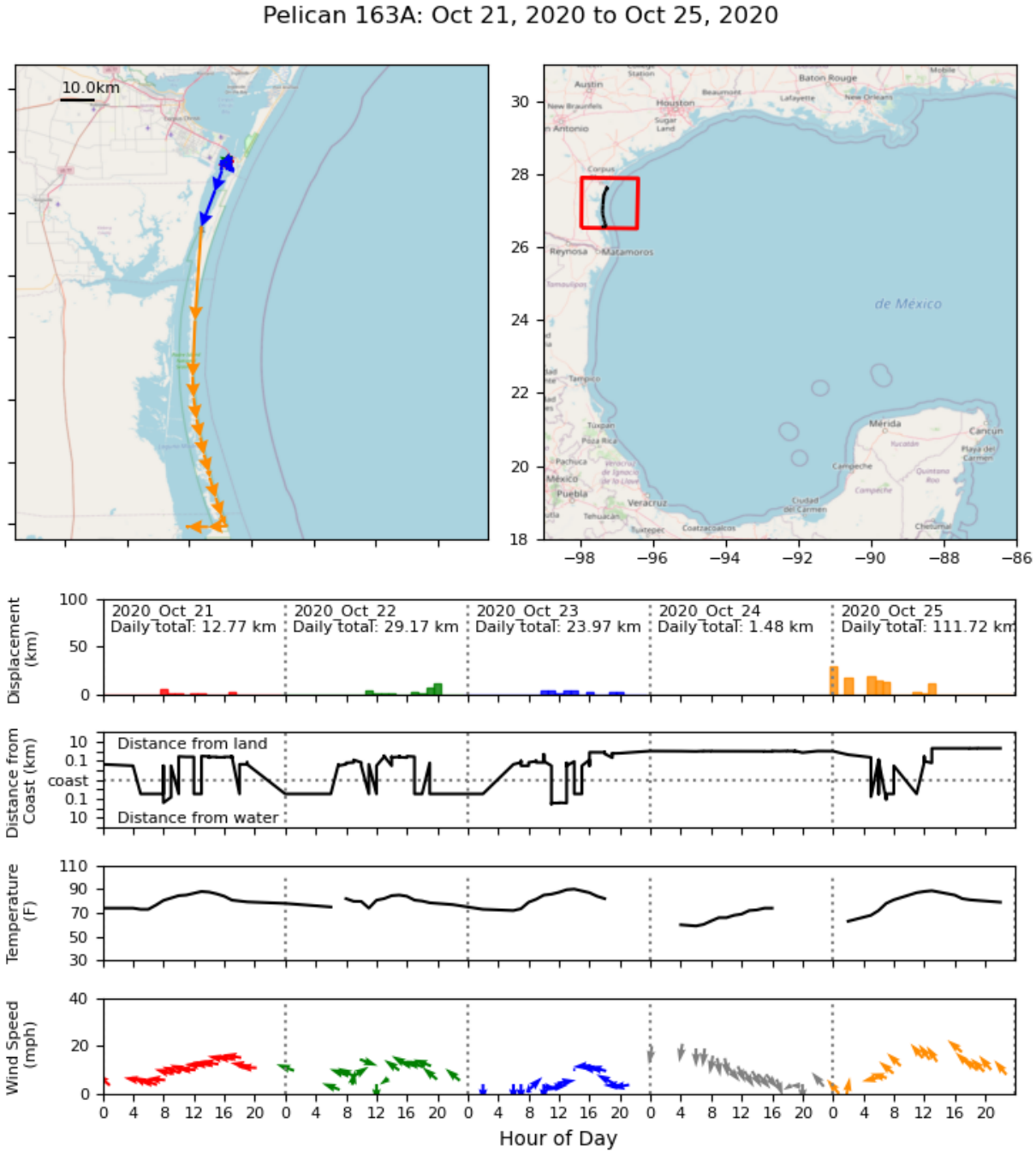

Figure 639 - Maps and graphs showing movements of 163A between 2020-10-21 and 2020-10-24 inclusive.

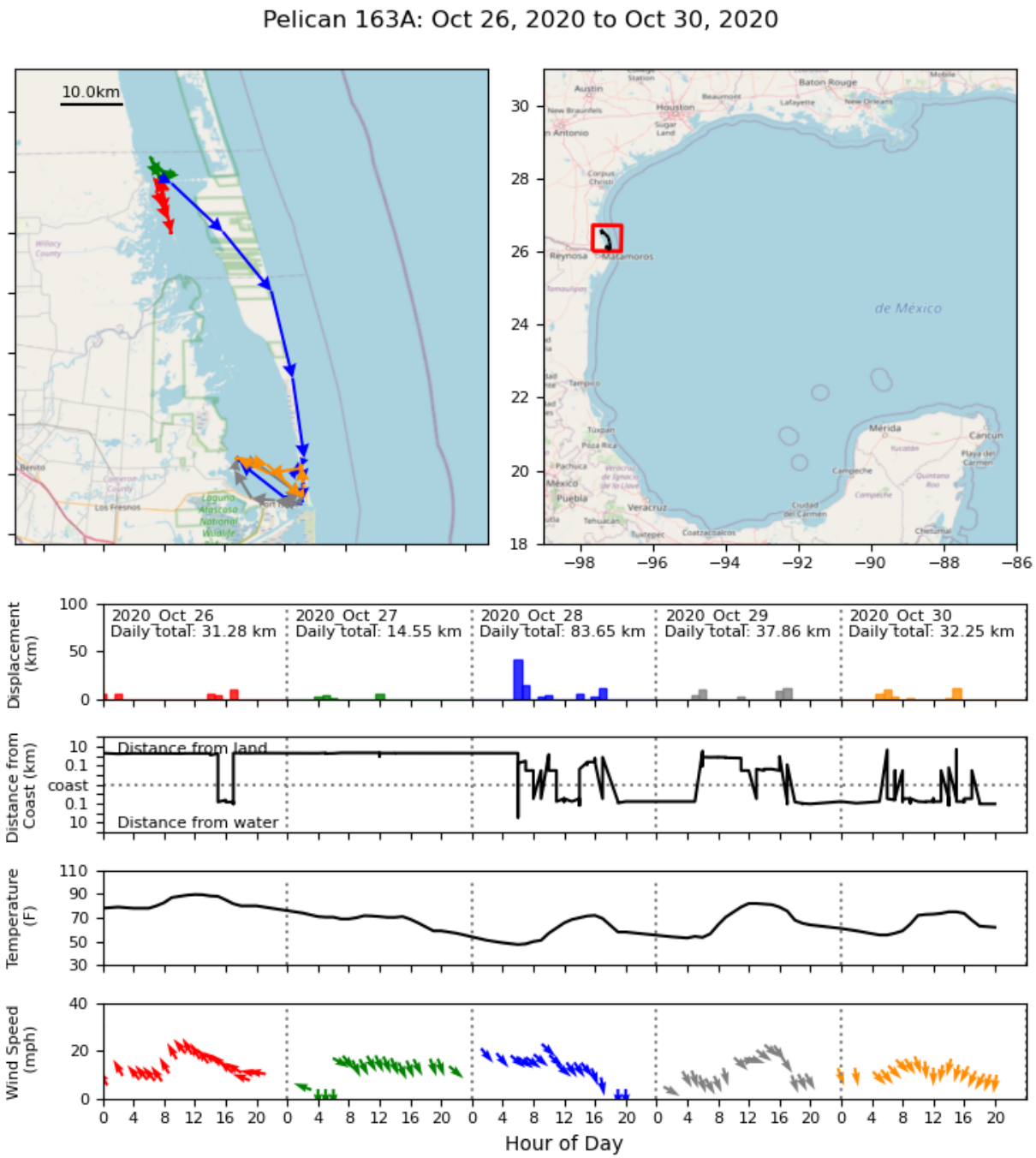

Figure 640 - Maps and graphs showing movements of 163A between 2020-10-26 and 2020-10-29 inclusive.

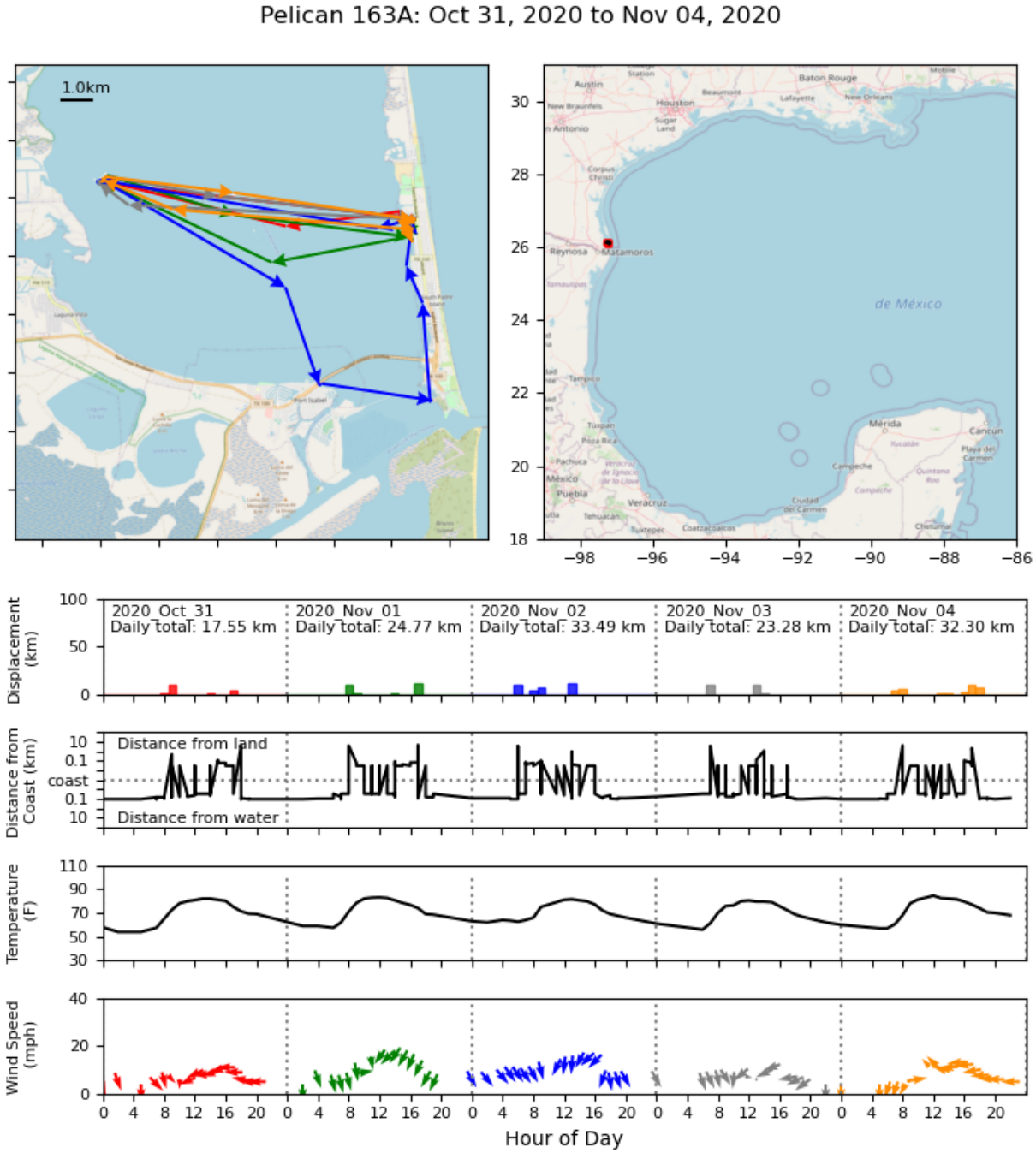

Figure 641 - Maps and graphs showing movements of 163A between 2020-10-31 and 2020-11-03 inclusive.

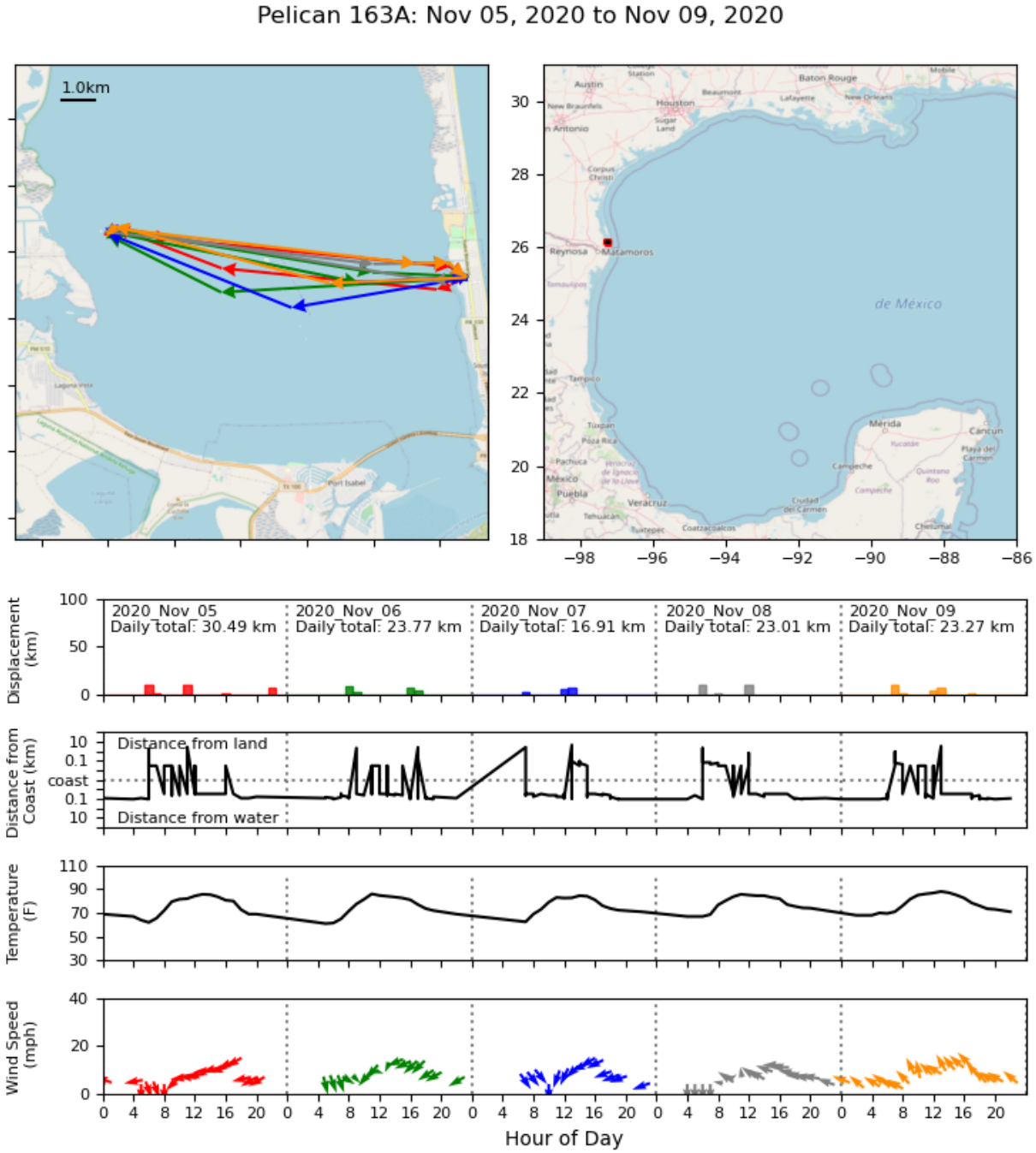

Figure 642 - Maps and graphs showing movements of 163A between 2020-11-05 and 2020-11-08 inclusive.

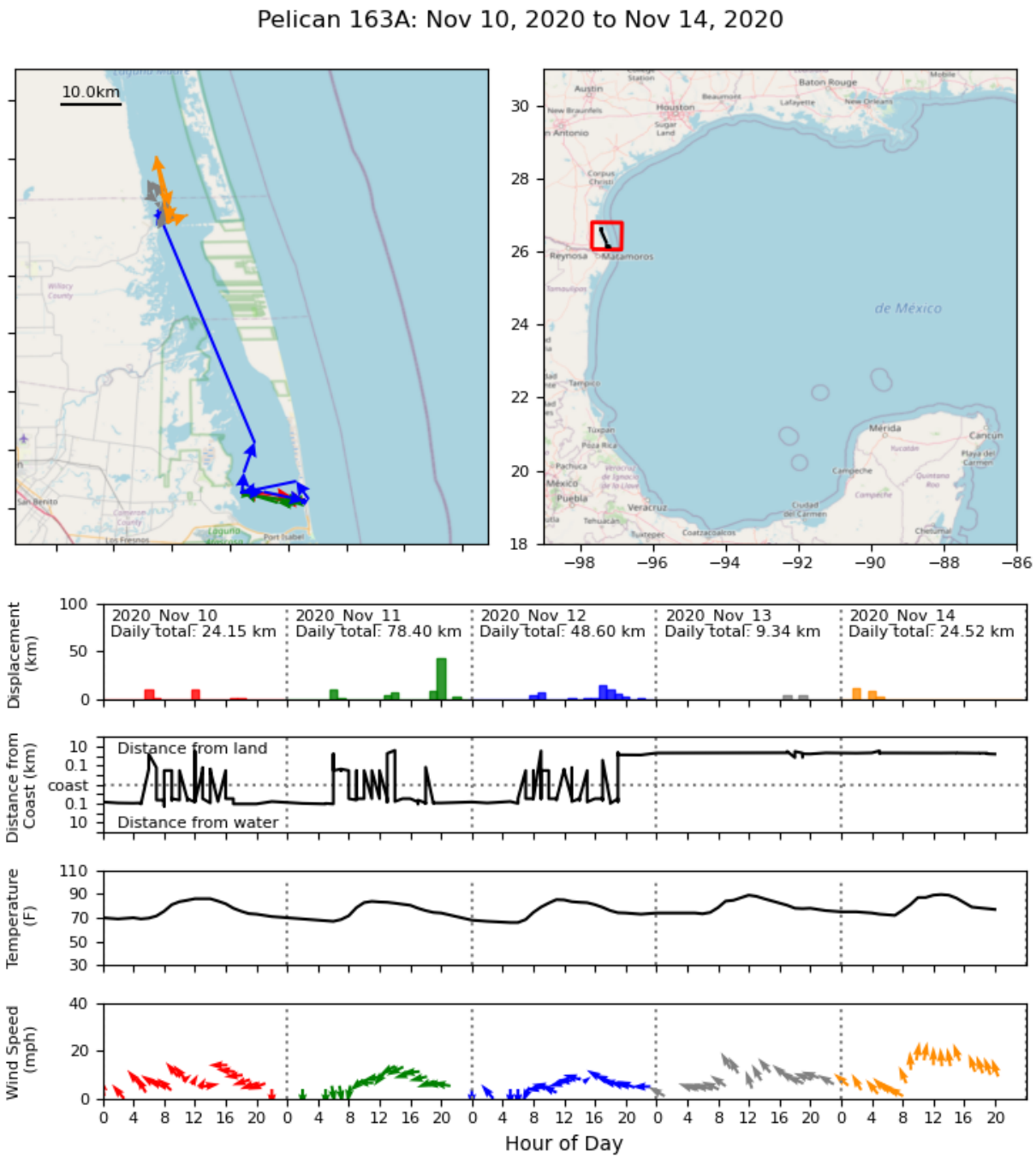

Figure 643 - Maps and graphs showing movements of 163A between 2020-11-10 and 2020-11-13 inclusive.

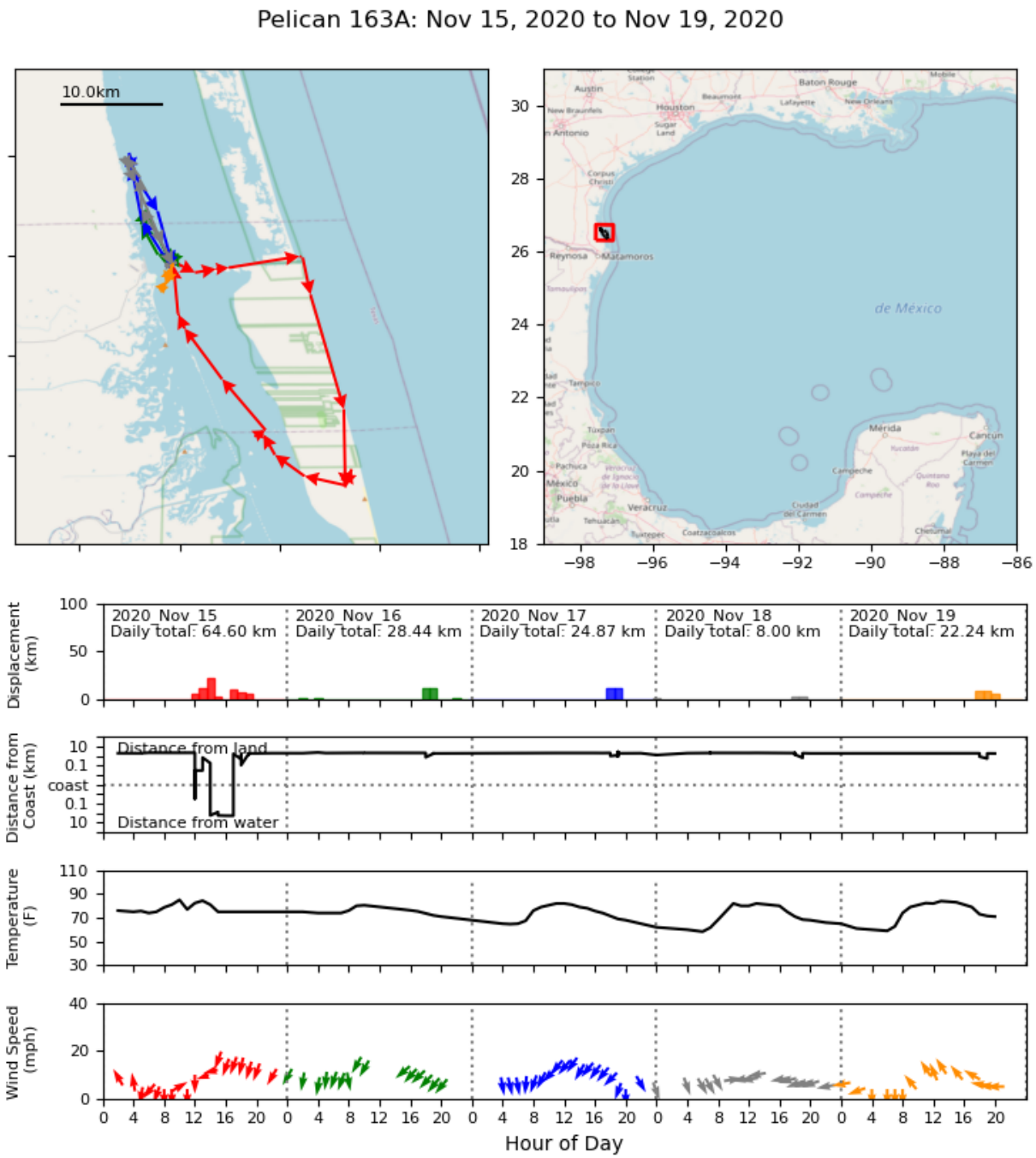

Figure 644 - Maps and graphs showing movements of 163A between 2020-11-15 and 2020-11-18 inclusive.

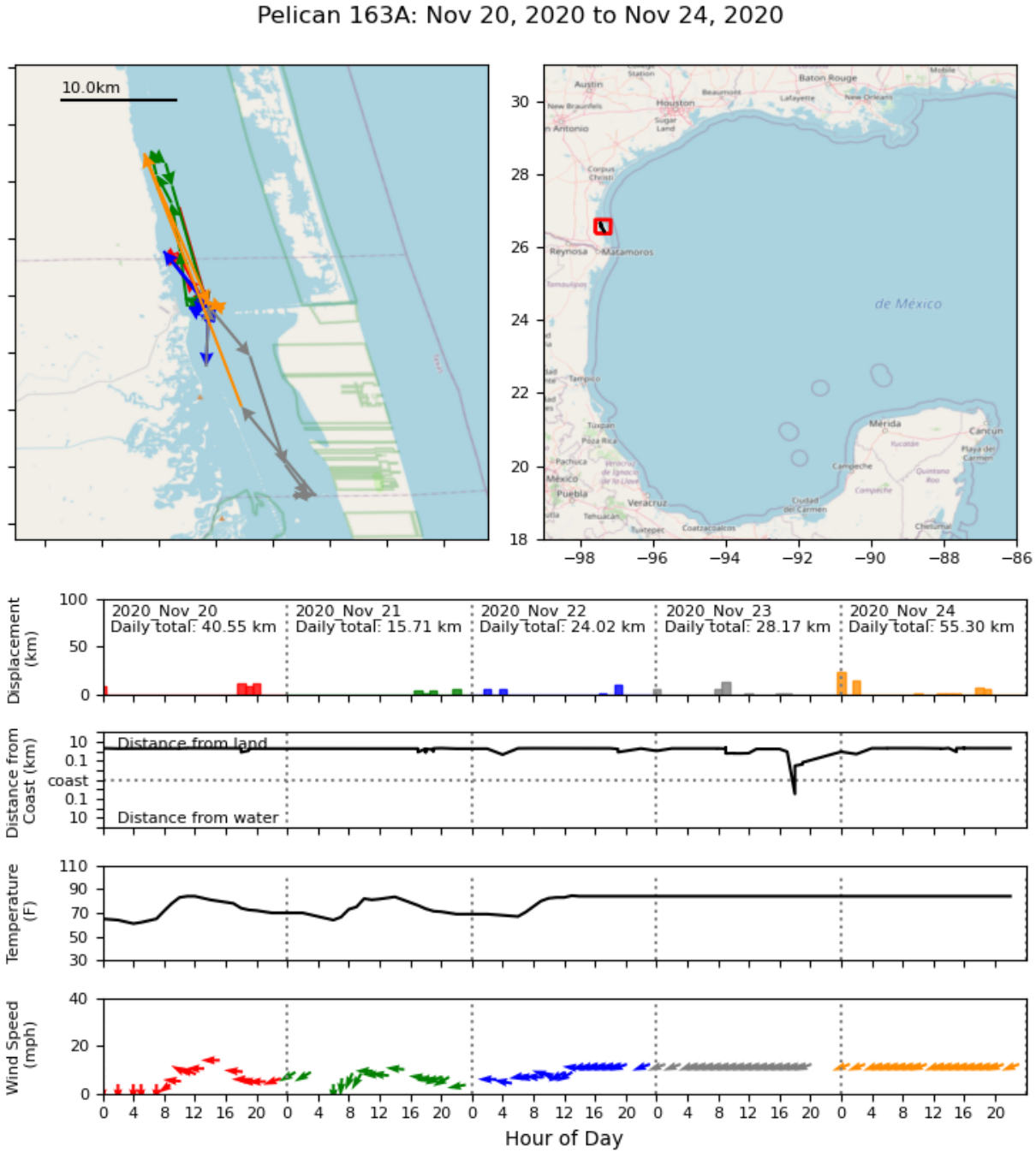

Figure 645 - Maps and graphs showing movements of 163A between 2020-11-20 and 2020-11-23 inclusive.

Pelican A7A0 - Active from January 10, 2018 to January 23, 2018

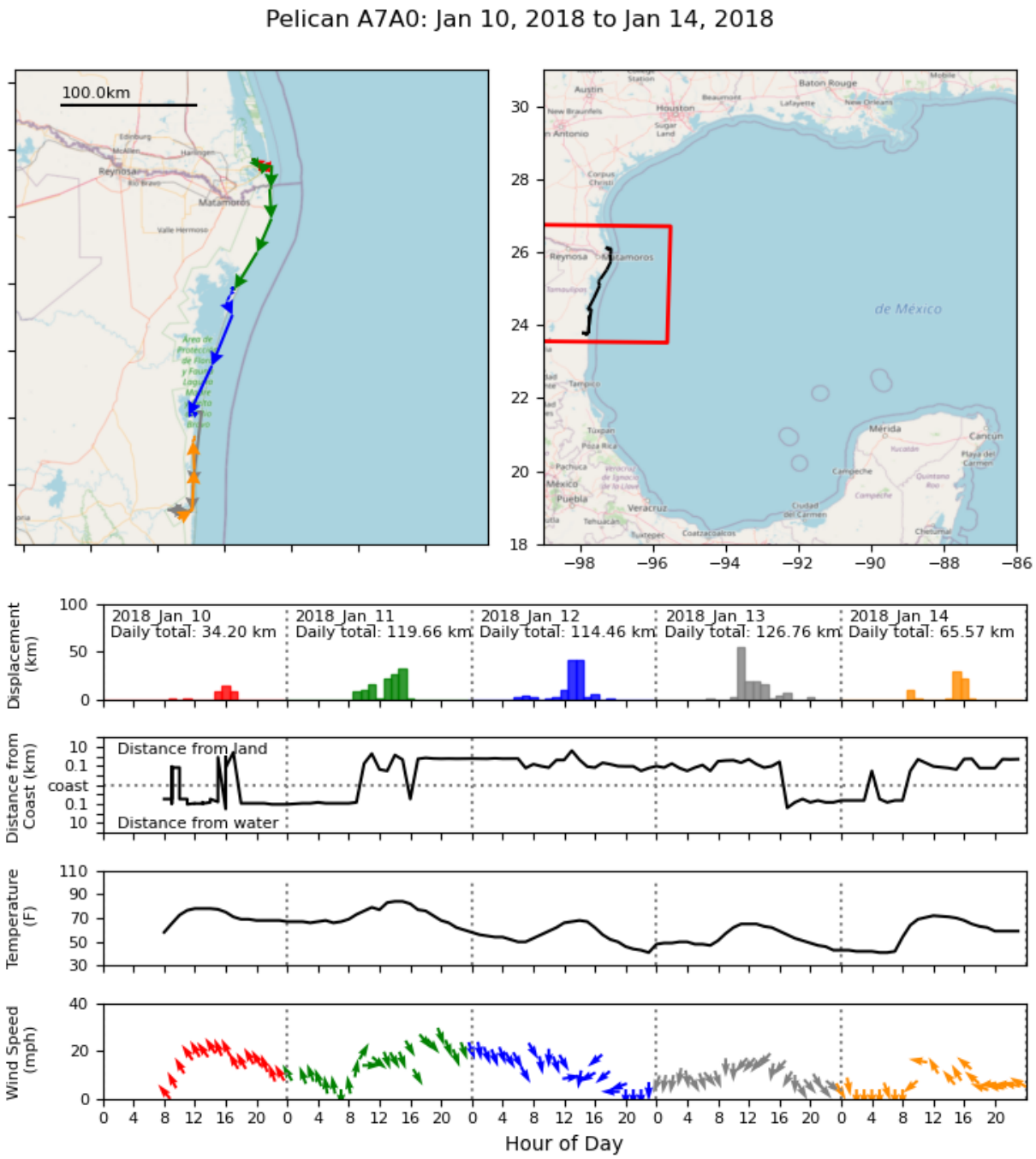

Figure 646 - Maps and graphs showing movements of A7A0 between 2018-01-10 and 2018-01-13 inclusive.

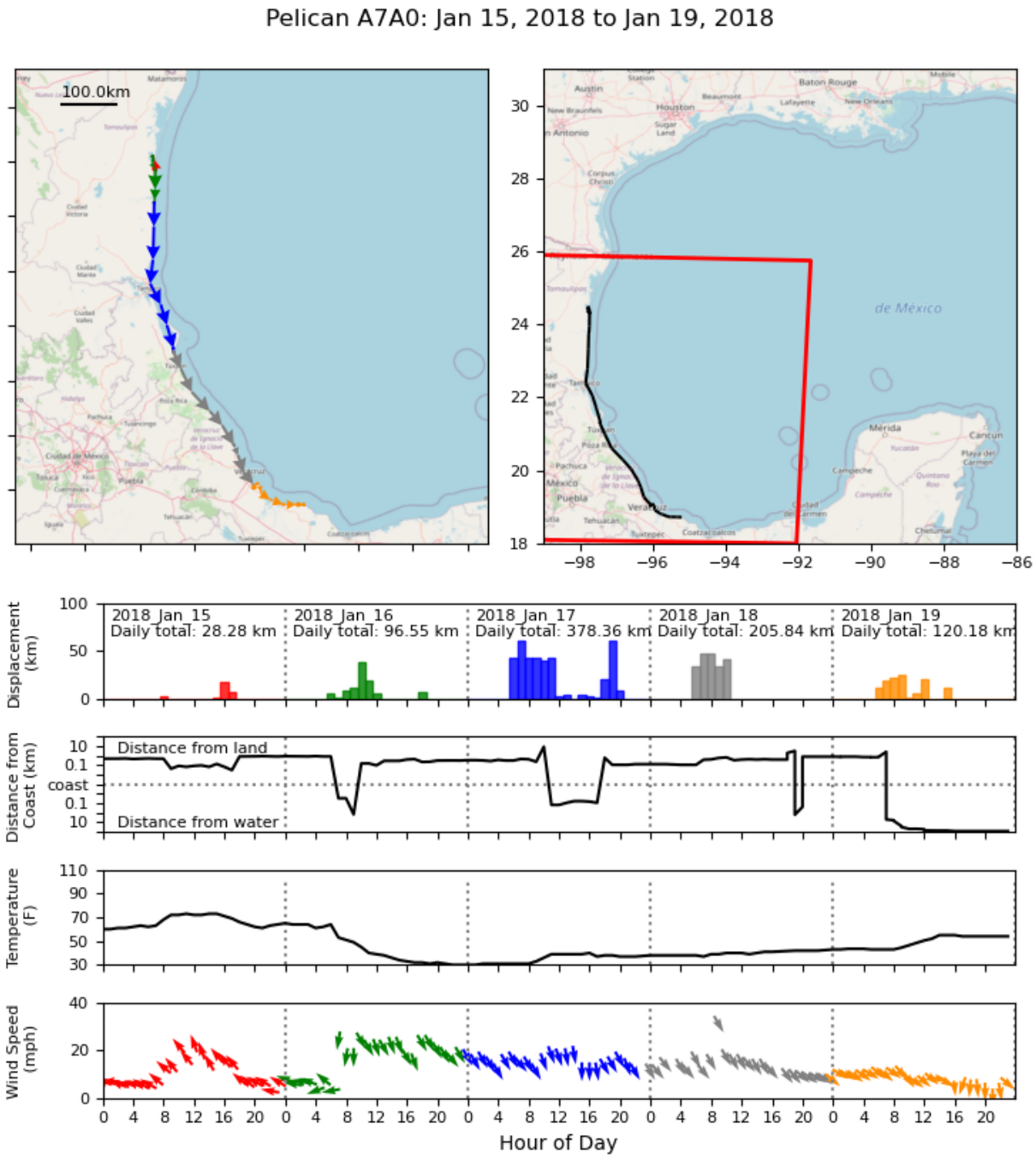

Figure 647 - Maps and graphs showing movements of A7A0 between 2018-01-15 and 2018-01-18 inclusive.

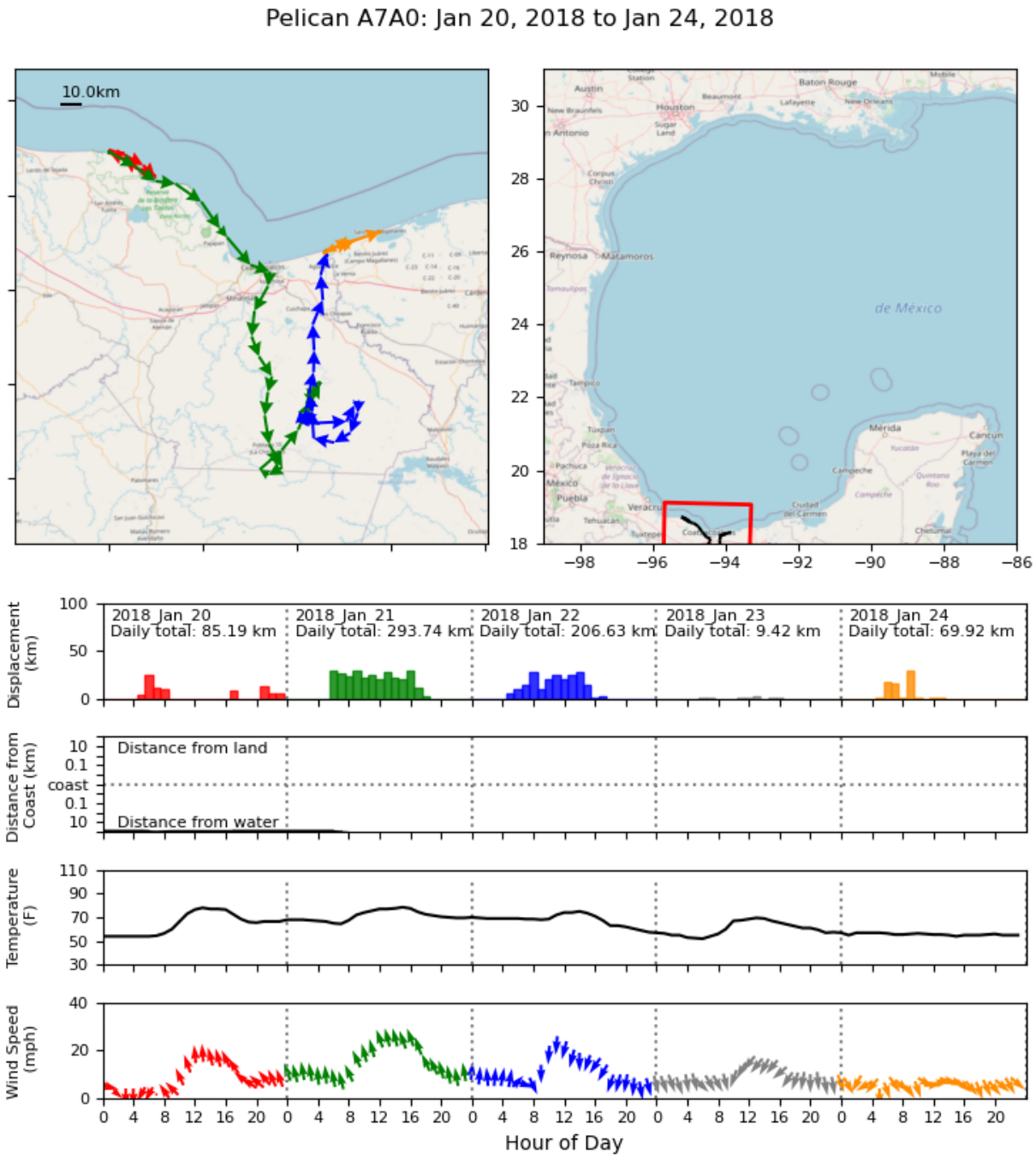

Figure 648 - Maps and graphs showing movements of A7A0 between 2018-01-20 and 2018-01-23 inclusive.

Pelican 0B3A - Active from January 14, 2018 to February 11, 2018

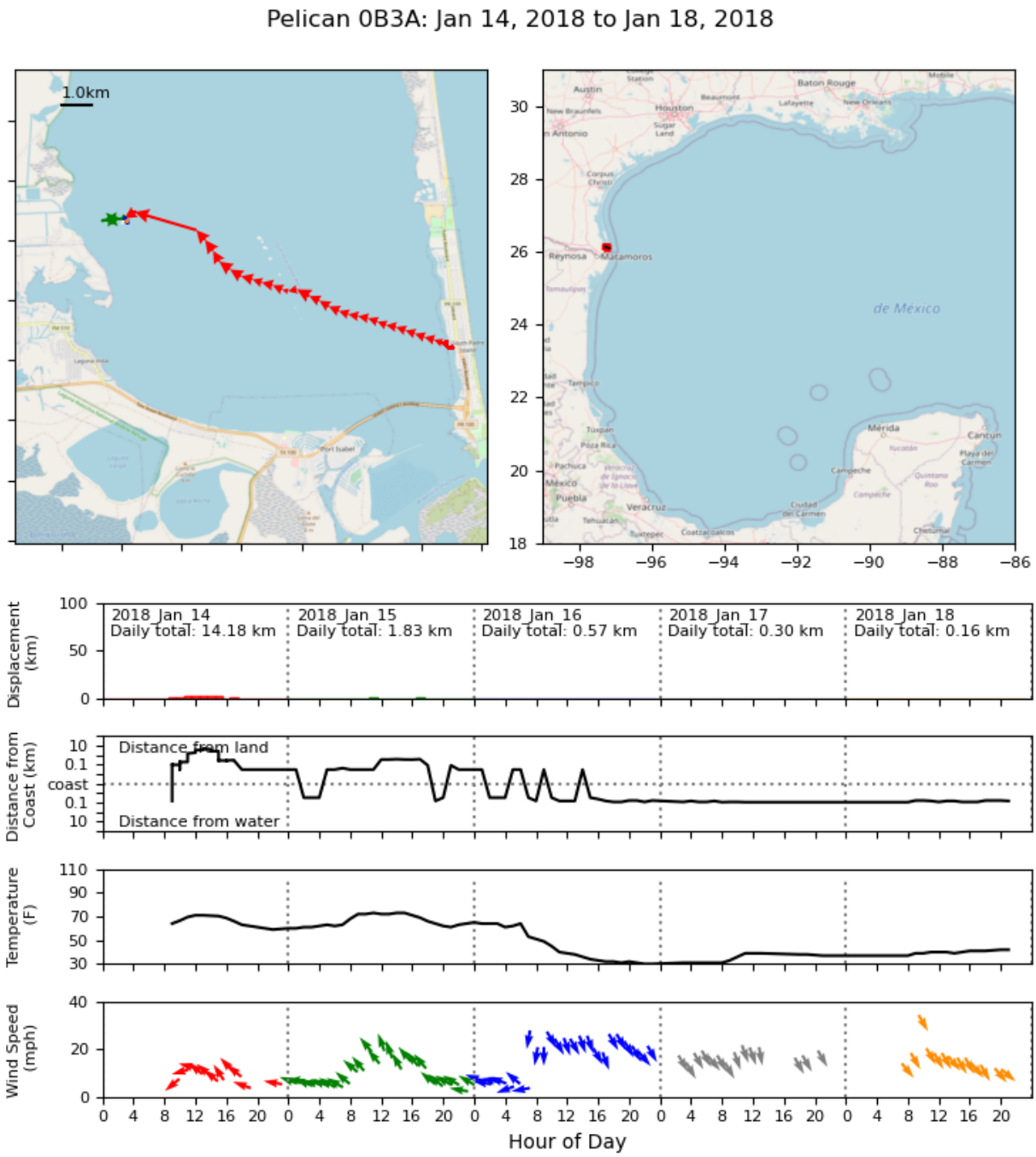

Figure 649 - Maps and graphs showing movements of 0B3A between 2018-01-14 and 2018-01-17 inclusive.

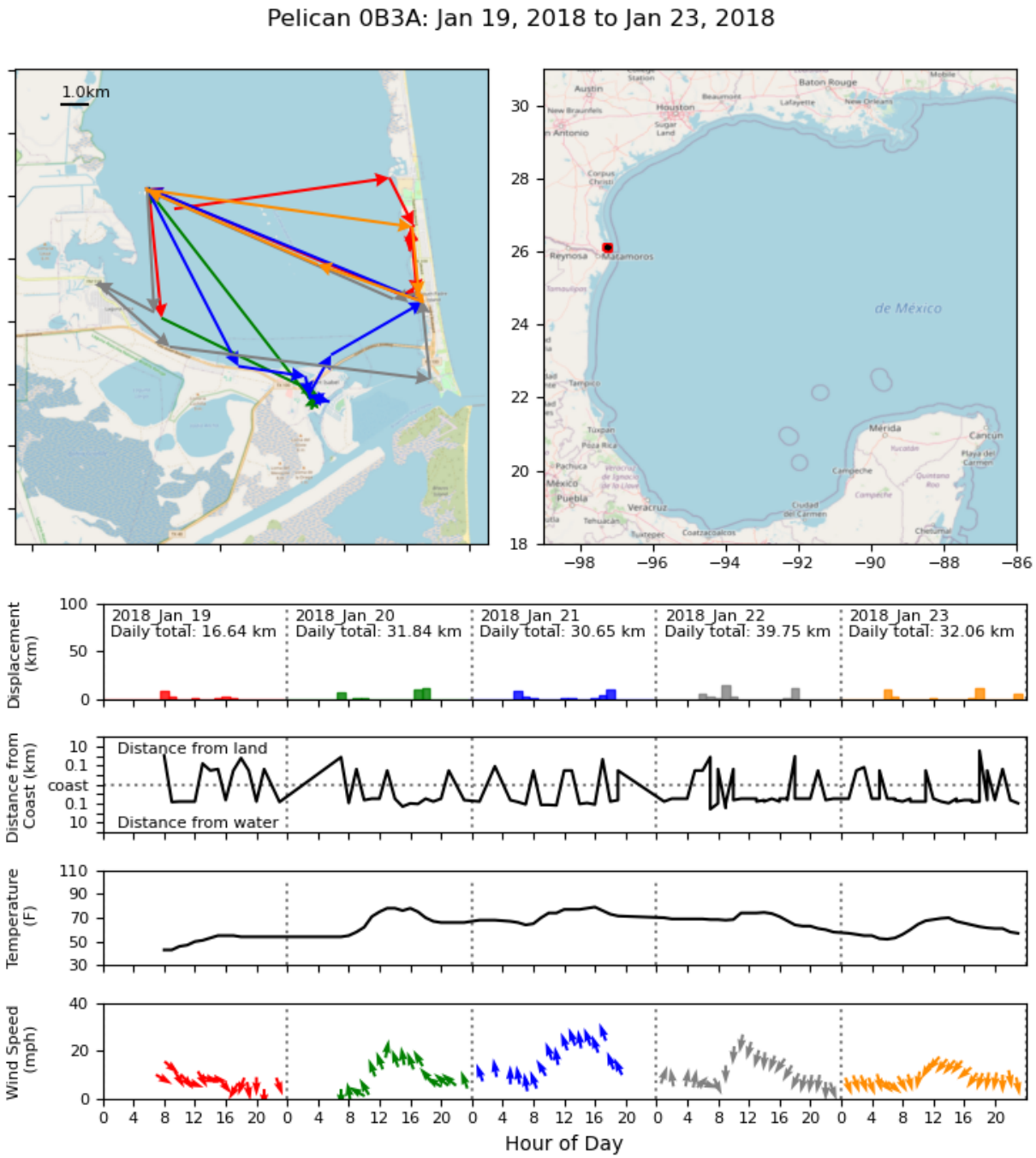

Figure 650 - Maps and graphs showing movements of 0B3A between 2018-01-19 and 2018-01-22 inclusive.

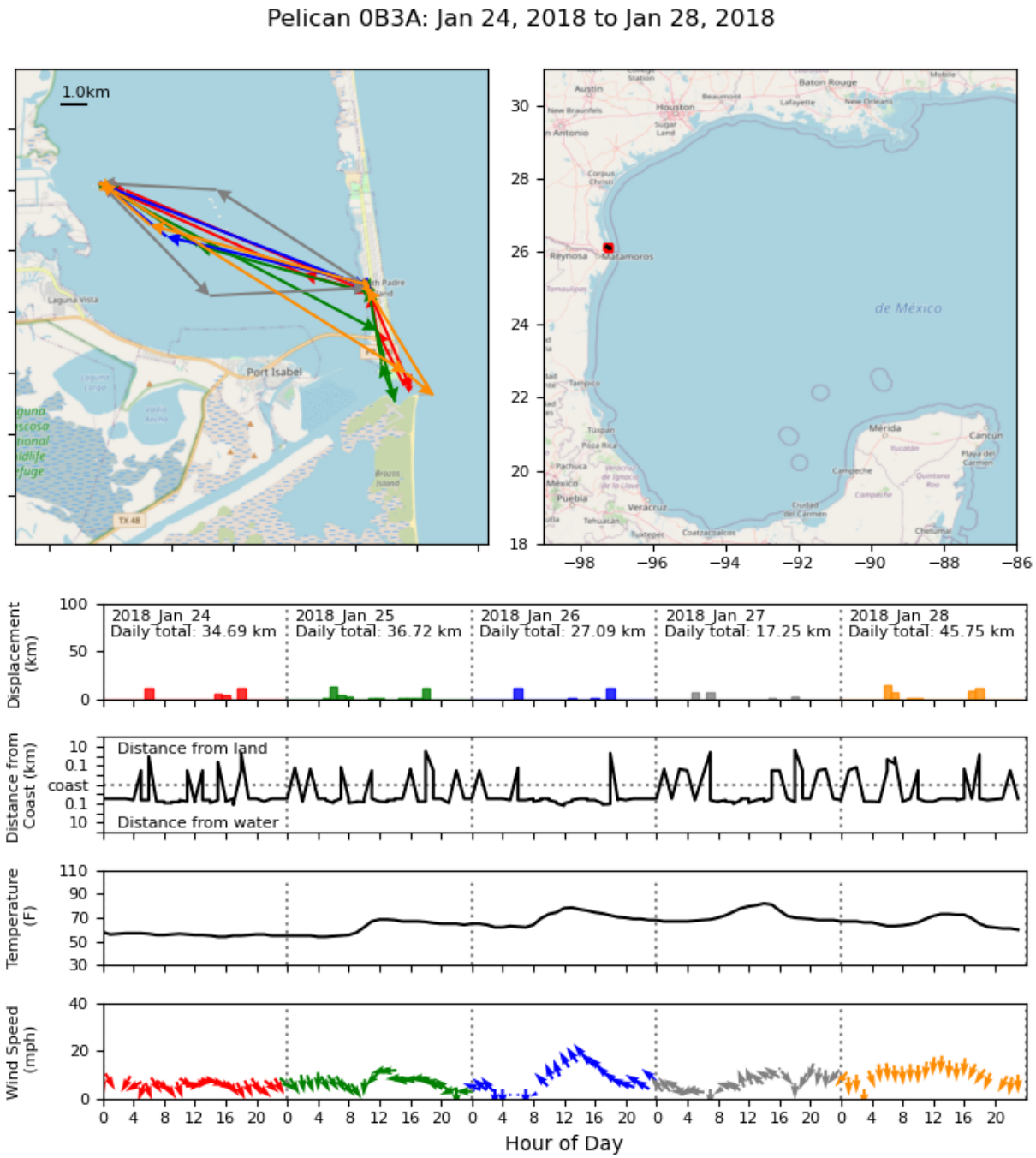

Figure 651 - Maps and graphs showing movements of 0B3A between 2018-01-24 and 2018-01-27 inclusive.

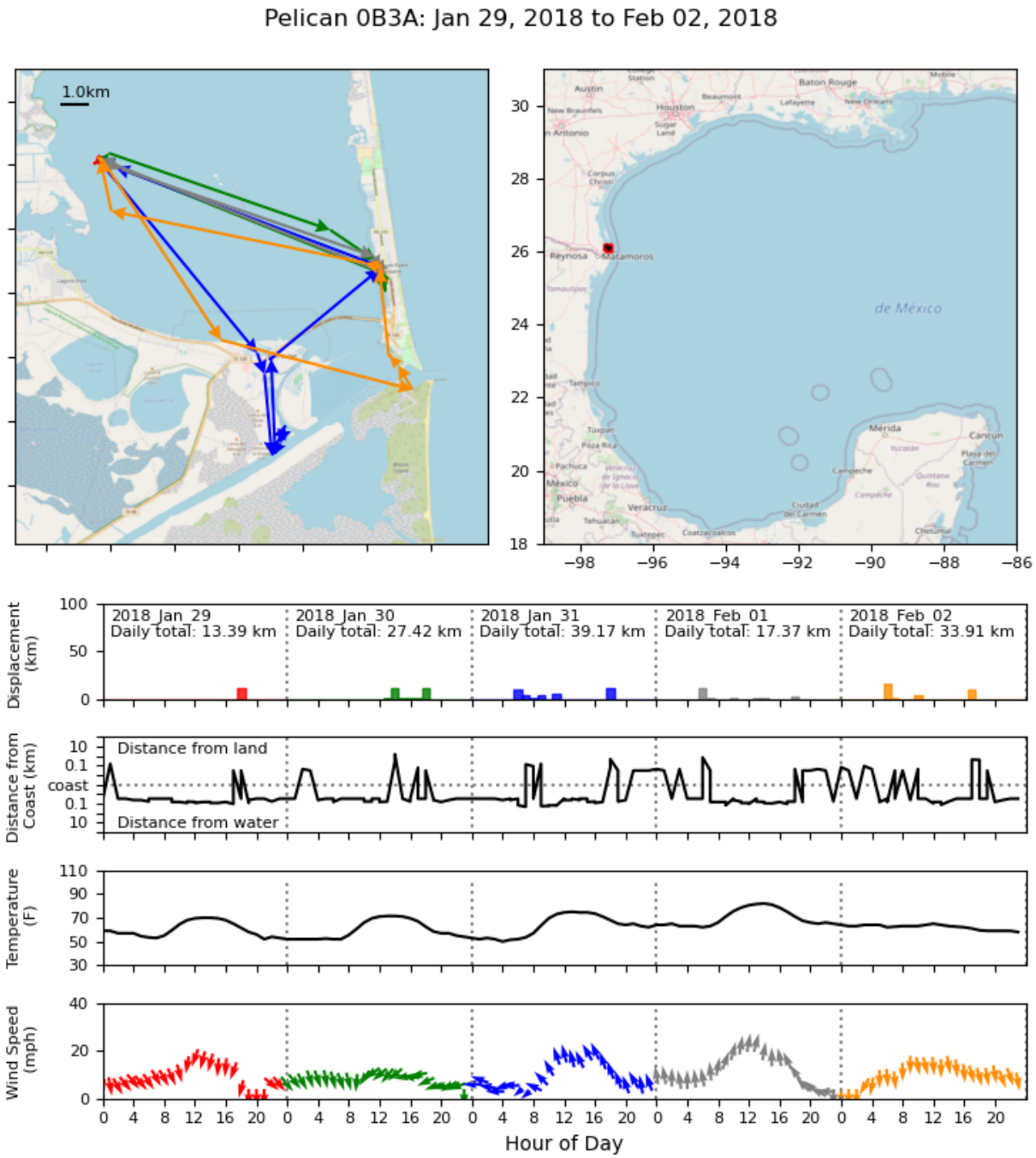

Figure 652 - Maps and graphs showing movements of 0B3A between 2018-01-29 and 2018-02-01 inclusive.

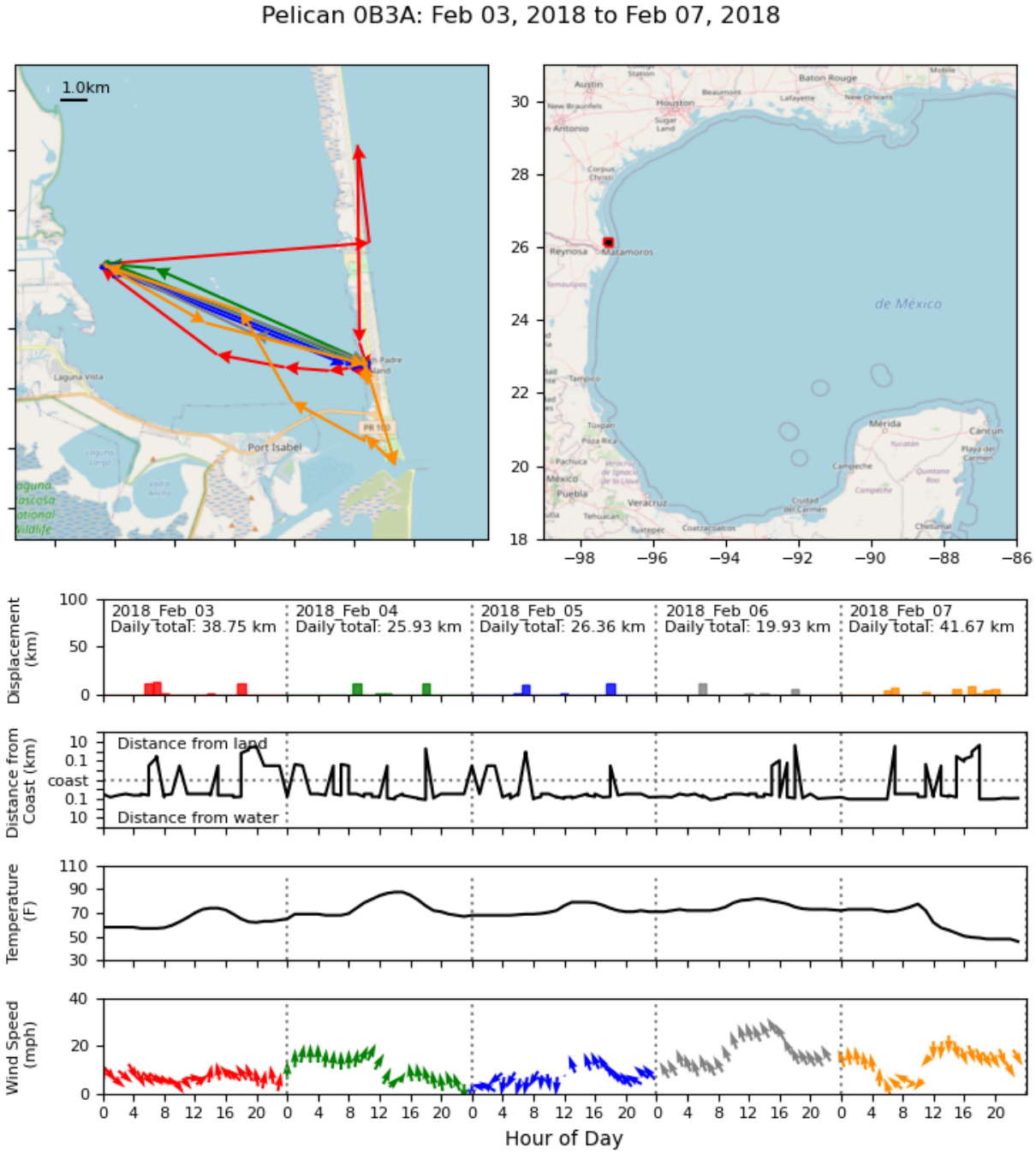

Figure 653 - Maps and graphs showing movements of 0B3A between 2018-02-03 and 2018-02-06 inclusive.

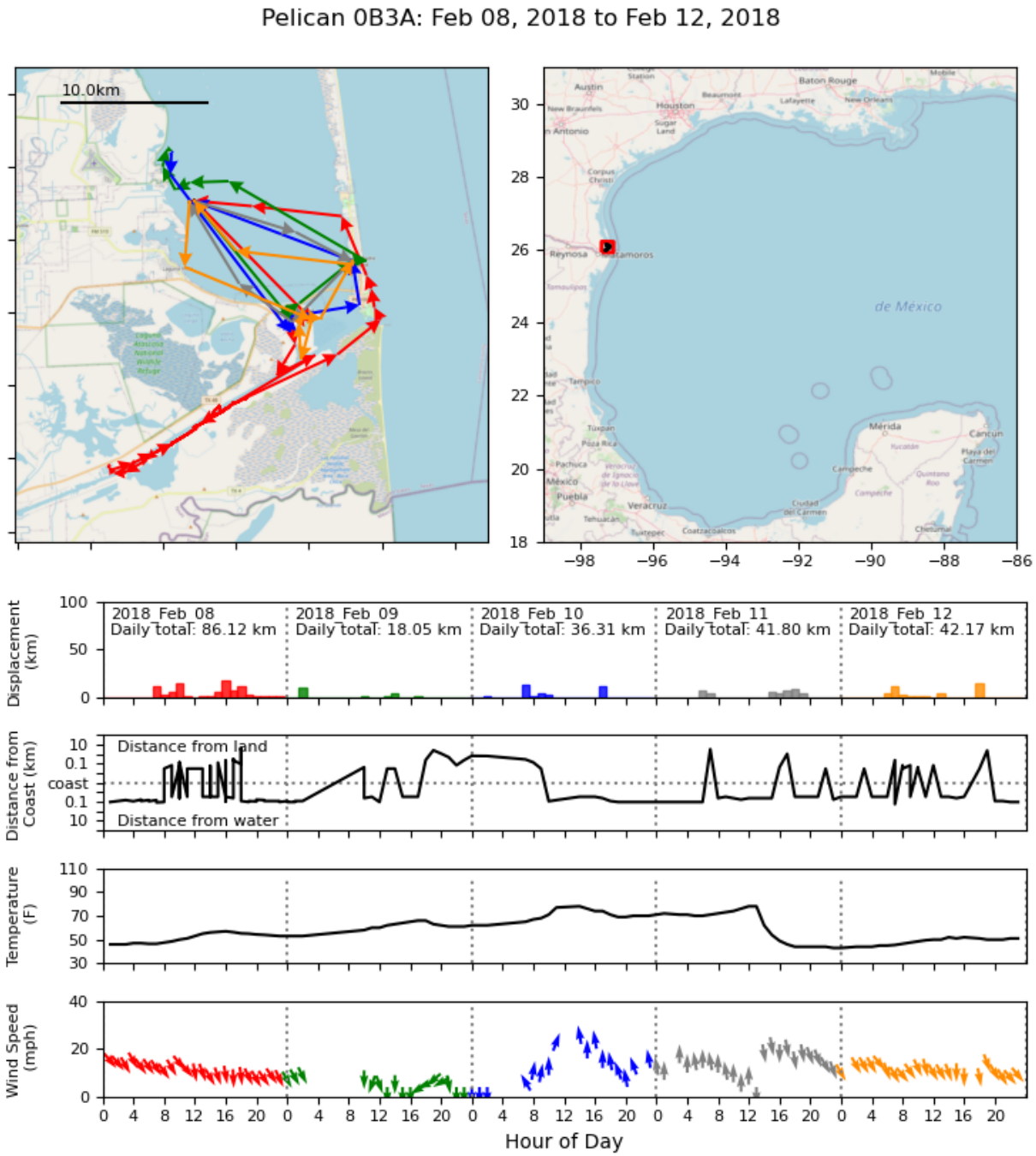

Figure 654 - Maps and graphs showing movements of 0B3A between 2018-02-08 and 2018-02-11 inclusive.

Pelican AA3A - Active from January 31, 2018 to December 25, 2018

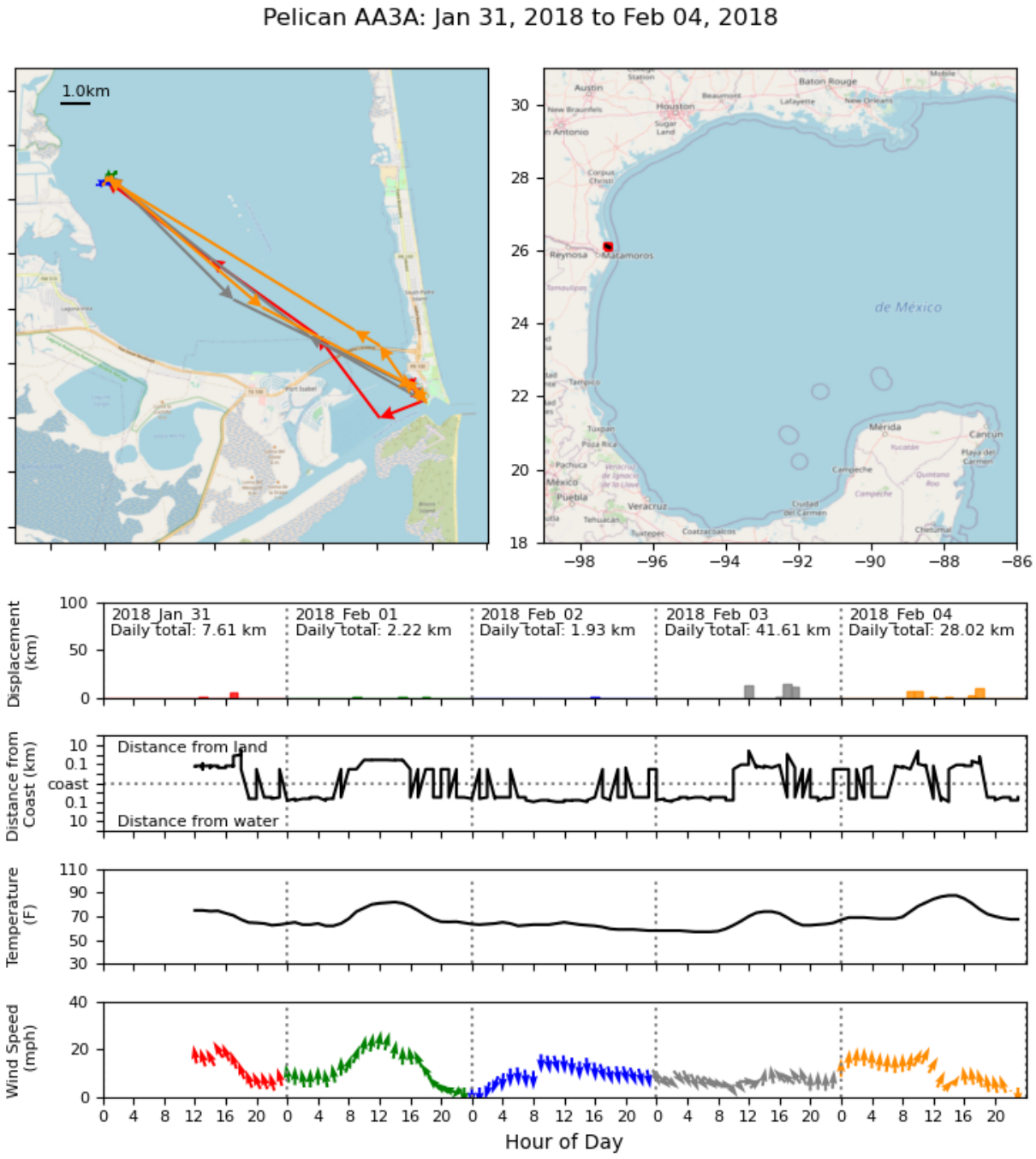

Figure 655 - Maps and graphs showing movements of AA3A between 2018-01-31 and 2018-02-03 inclusive.

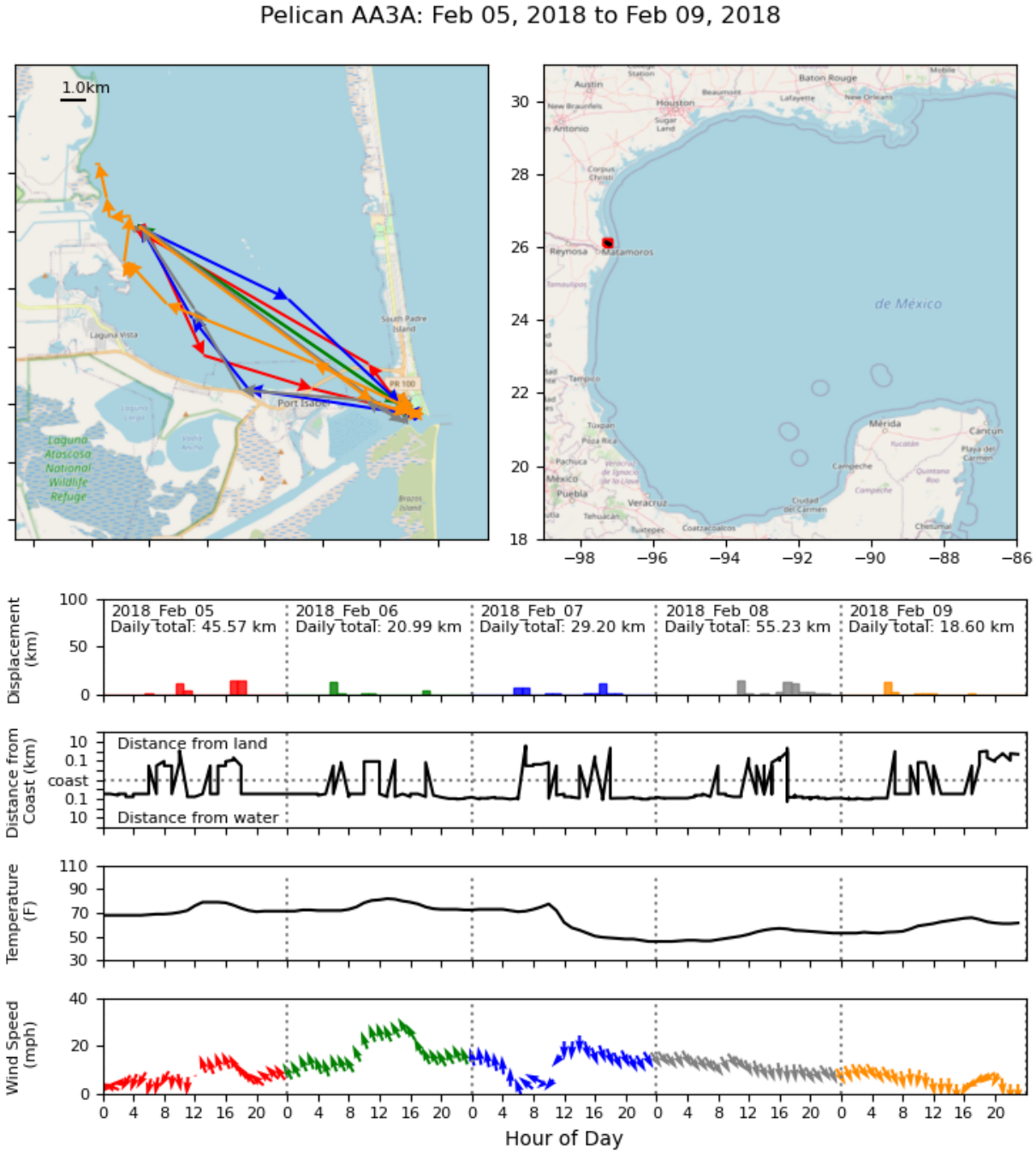

Figure 656 - Maps and graphs showing movements of AA3A between 2018-02-05 and 2018-02-08 inclusive.

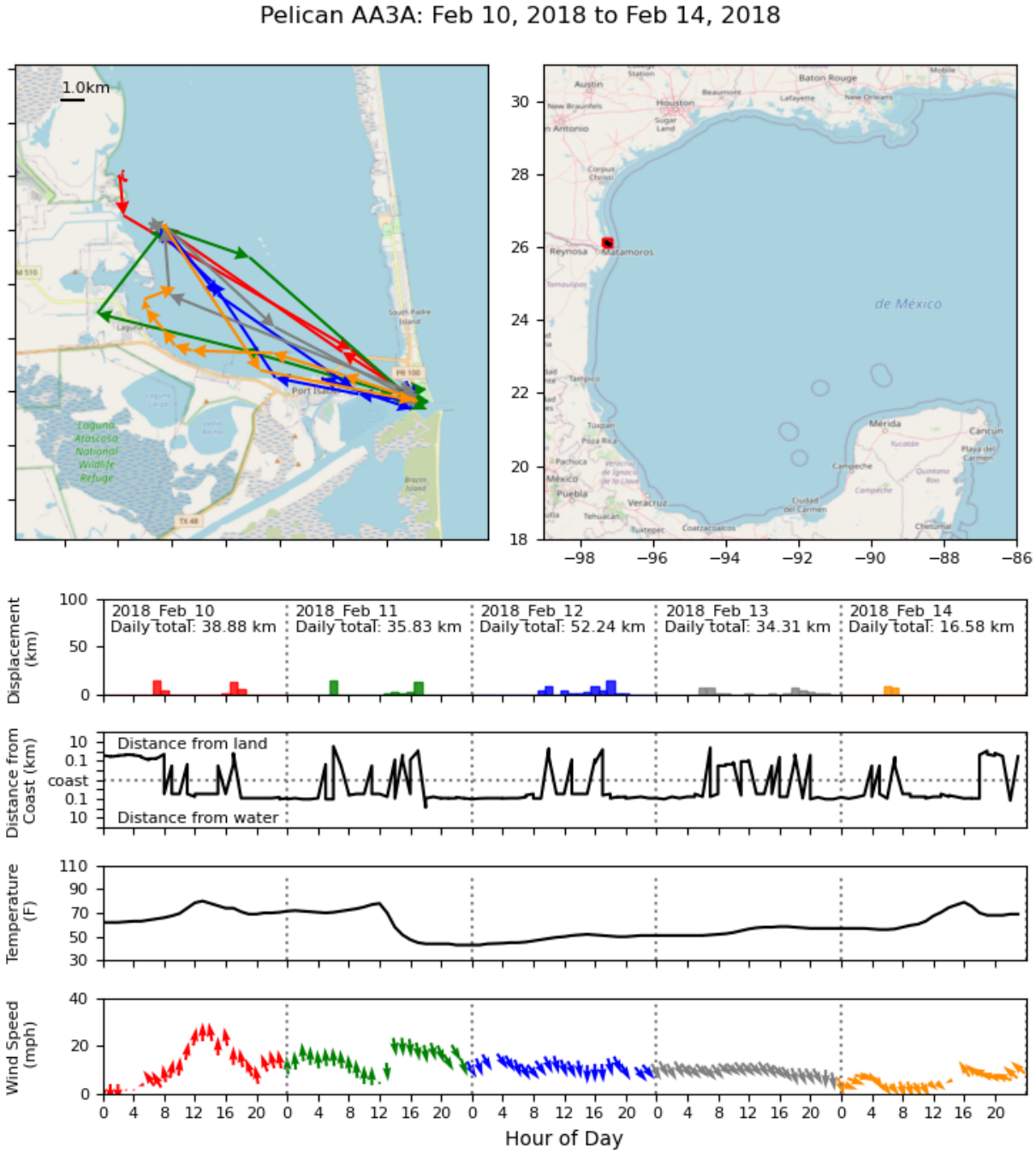

Figure 657 - Maps and graphs showing movements of AA3A between 2018-02-10 and 2018-02-13 inclusive.

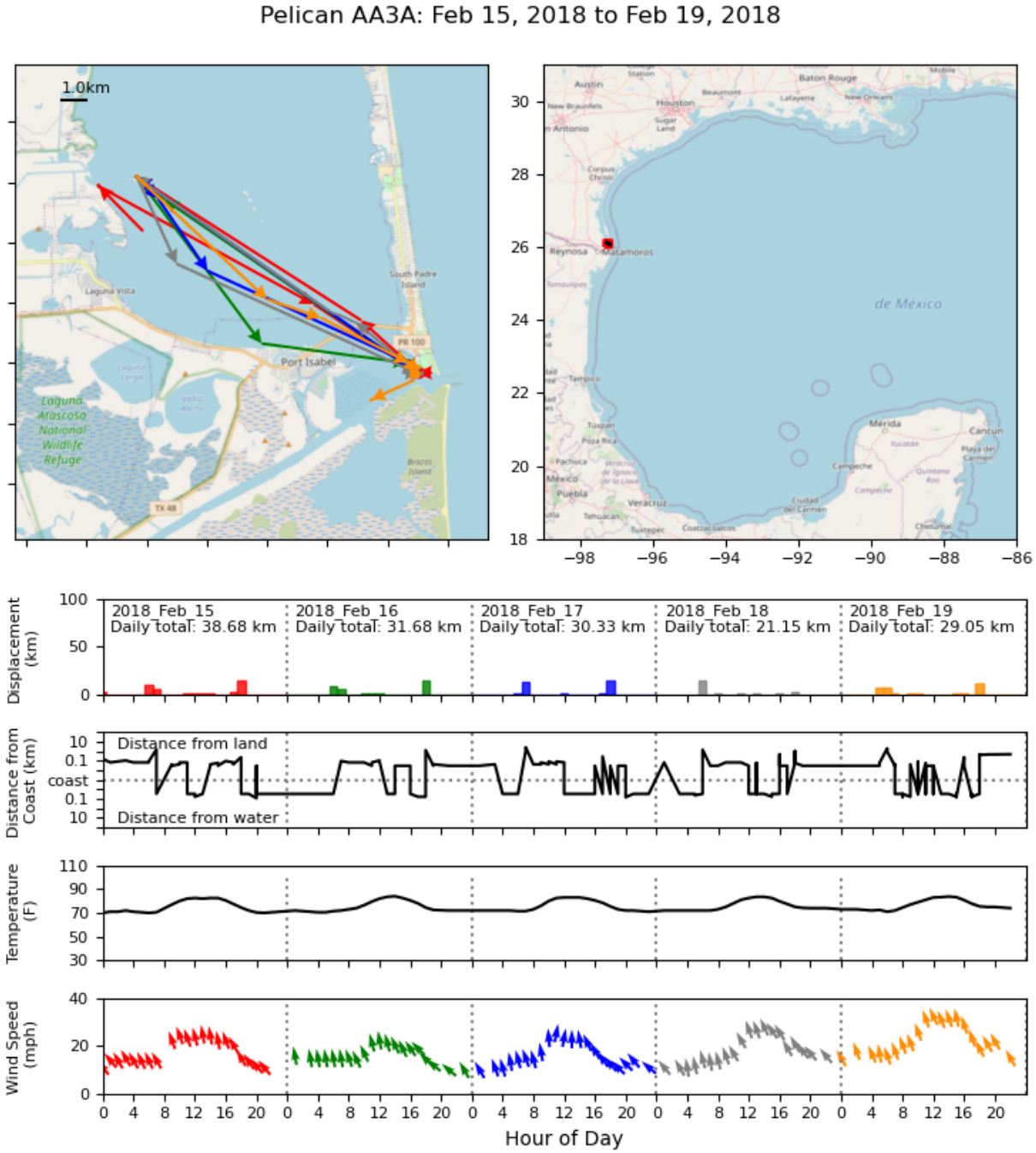

Figure 658 - Maps and graphs showing movements of AA3A between 2018-02-15 and 2018-02-18 inclusive.

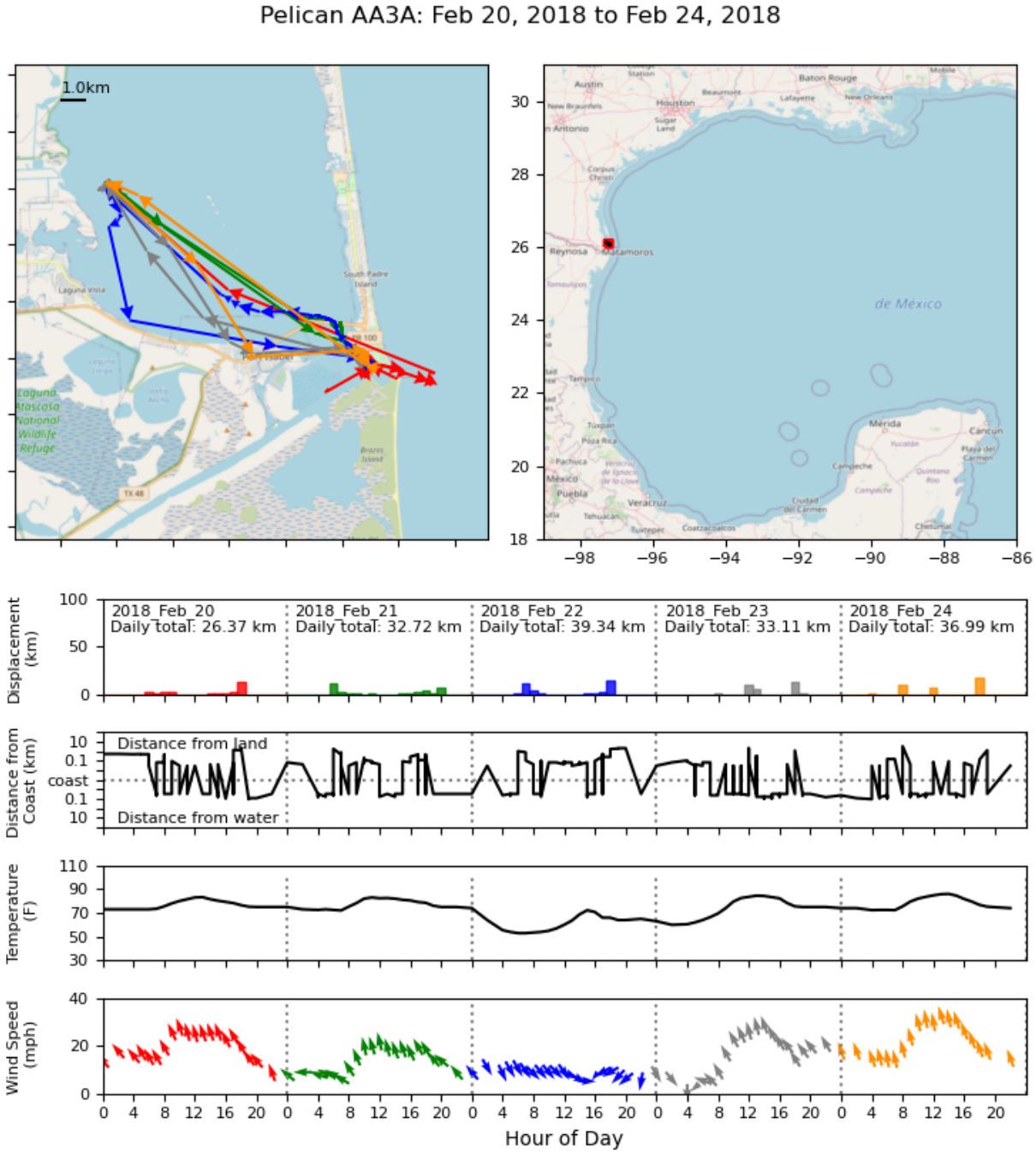

Figure 659 - Maps and graphs showing movements of AA3A between 2018-02-20 and 2018-02-23 inclusive.

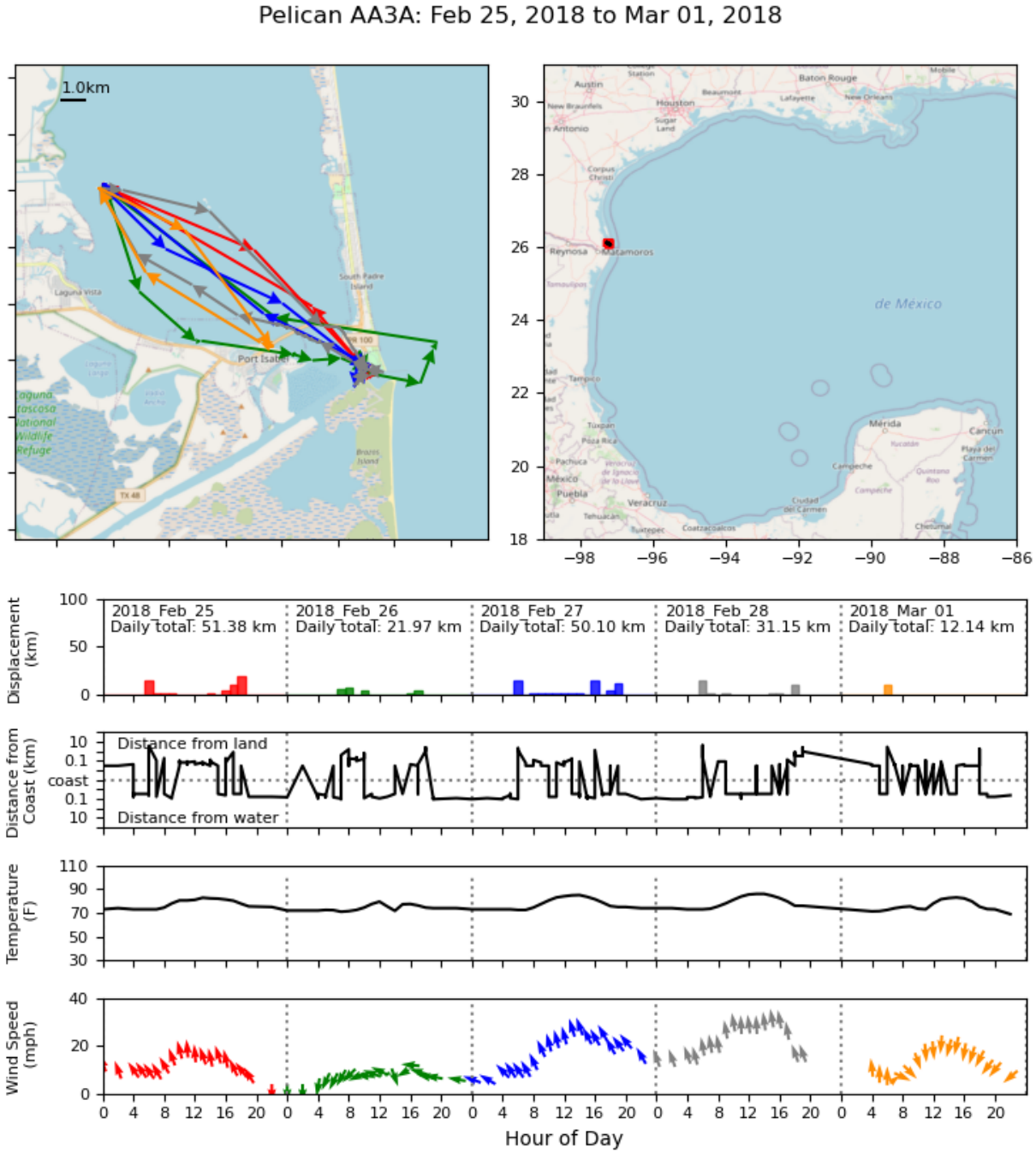

Figure 660 - Maps and graphs showing movements of AA3A between 2018-02-25 and 2018-02-28 inclusive.

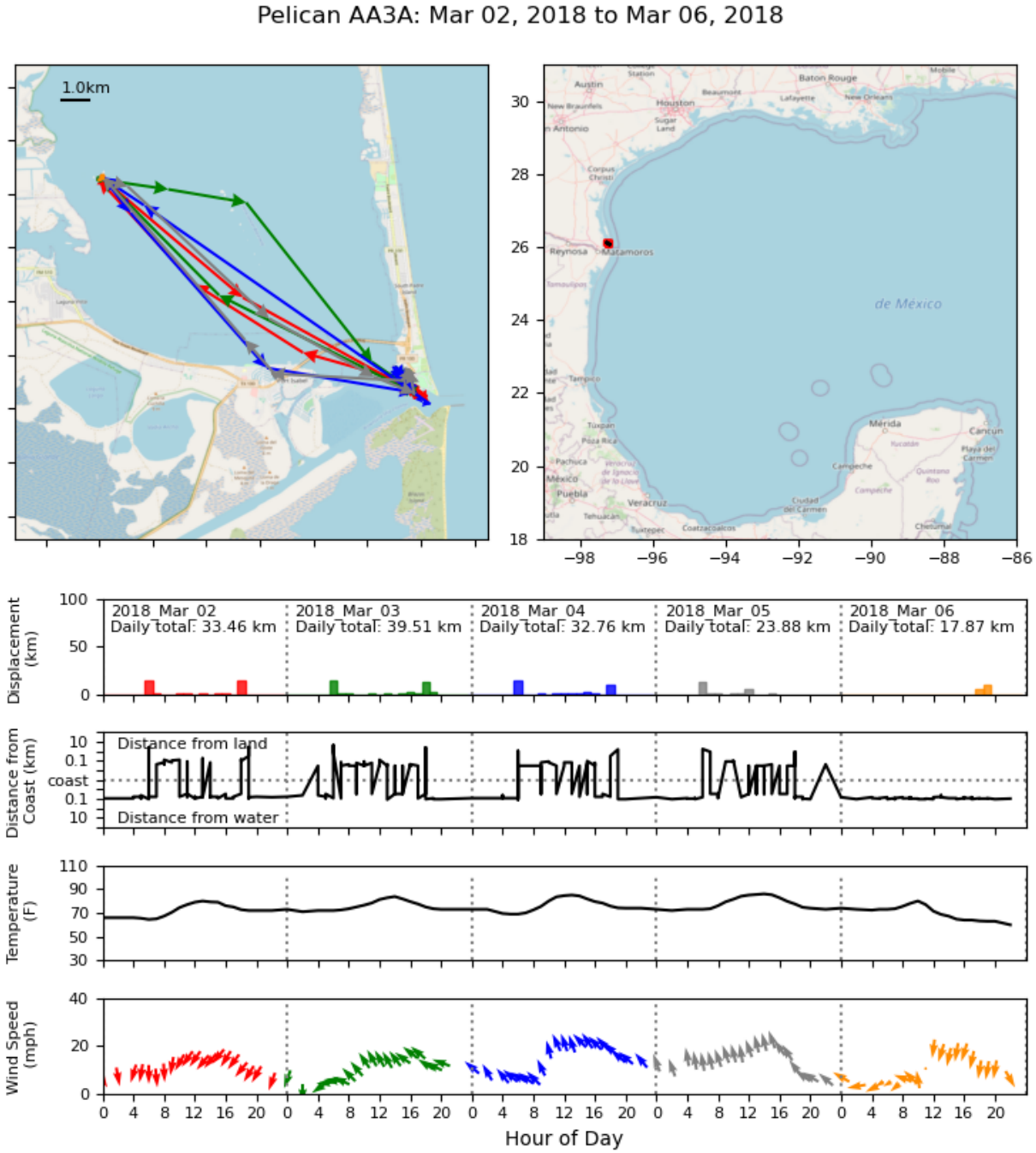

Figure 661 - Maps and graphs showing movements of AA3A between 2018-03-02 and 2018-03-05 inclusive.

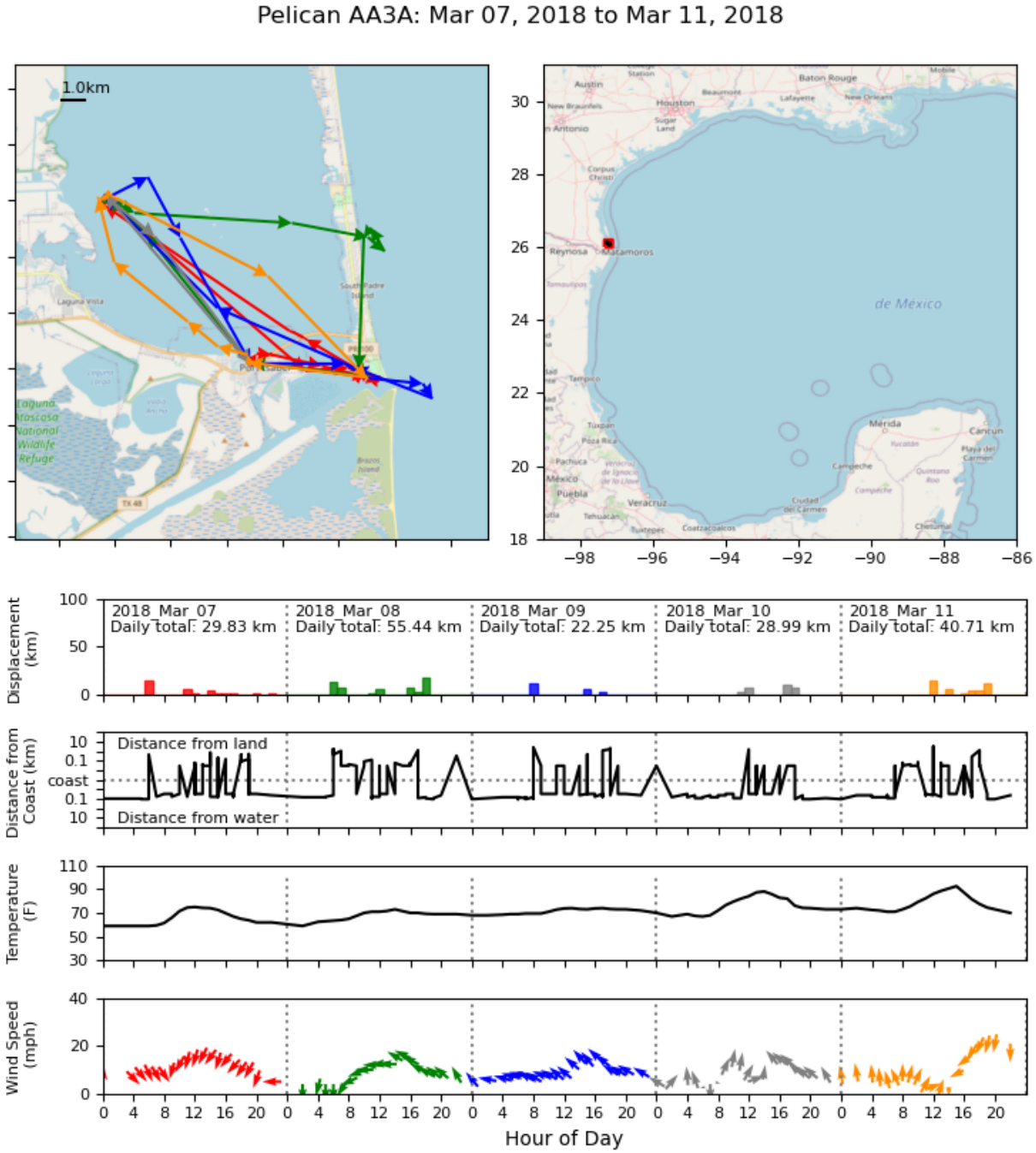

Figure 662 - Maps and graphs showing movements of AA3A between 2018-03-07 and 2018-03-10 inclusive.

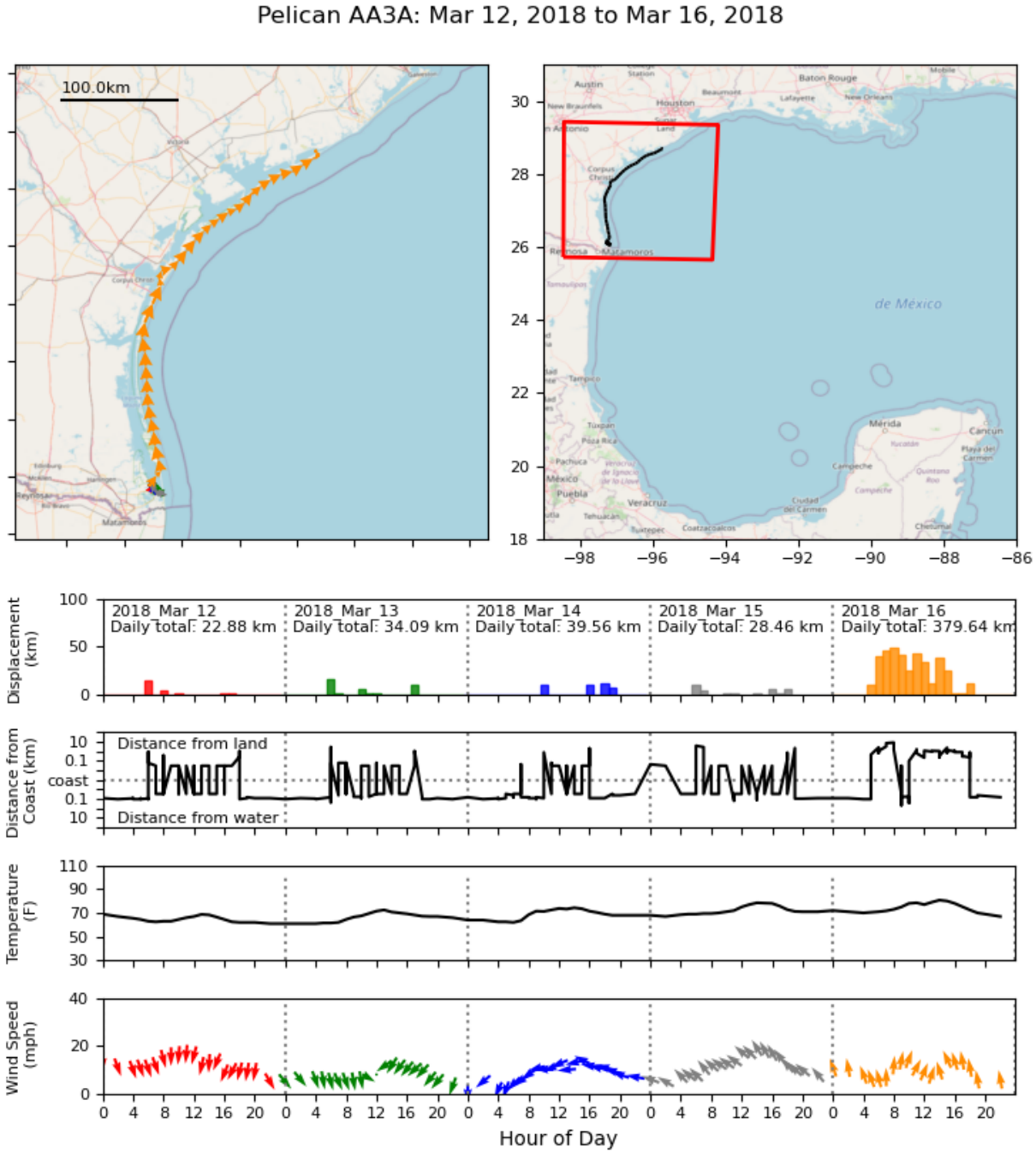

Figure 663 - Maps and graphs showing movements of AA3A between 2018-03-12 and 2018-03-15 inclusive.

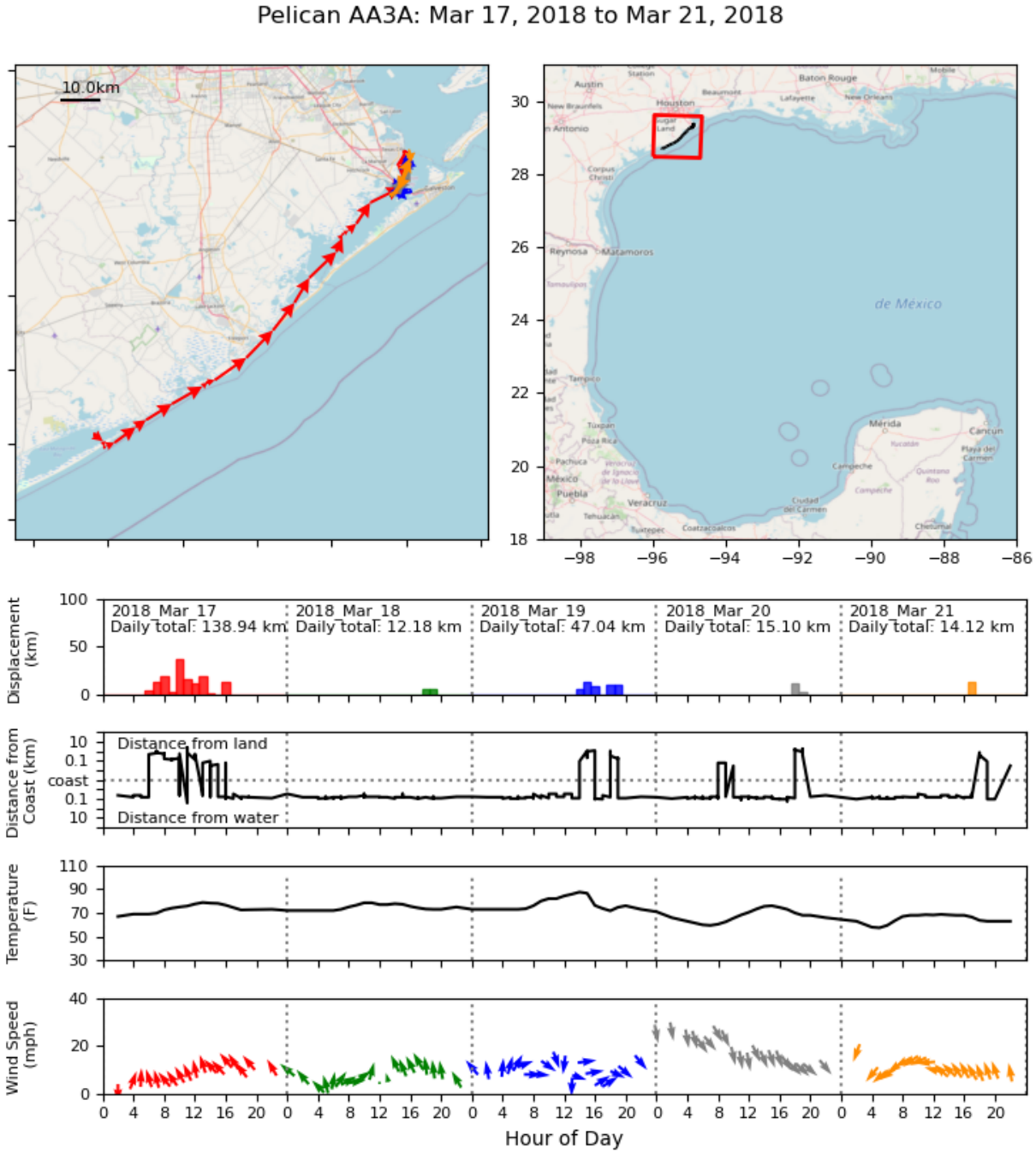

Figure 664 - Maps and graphs showing movements of AA3A between 2018-03-17 and 2018-03-20 inclusive.

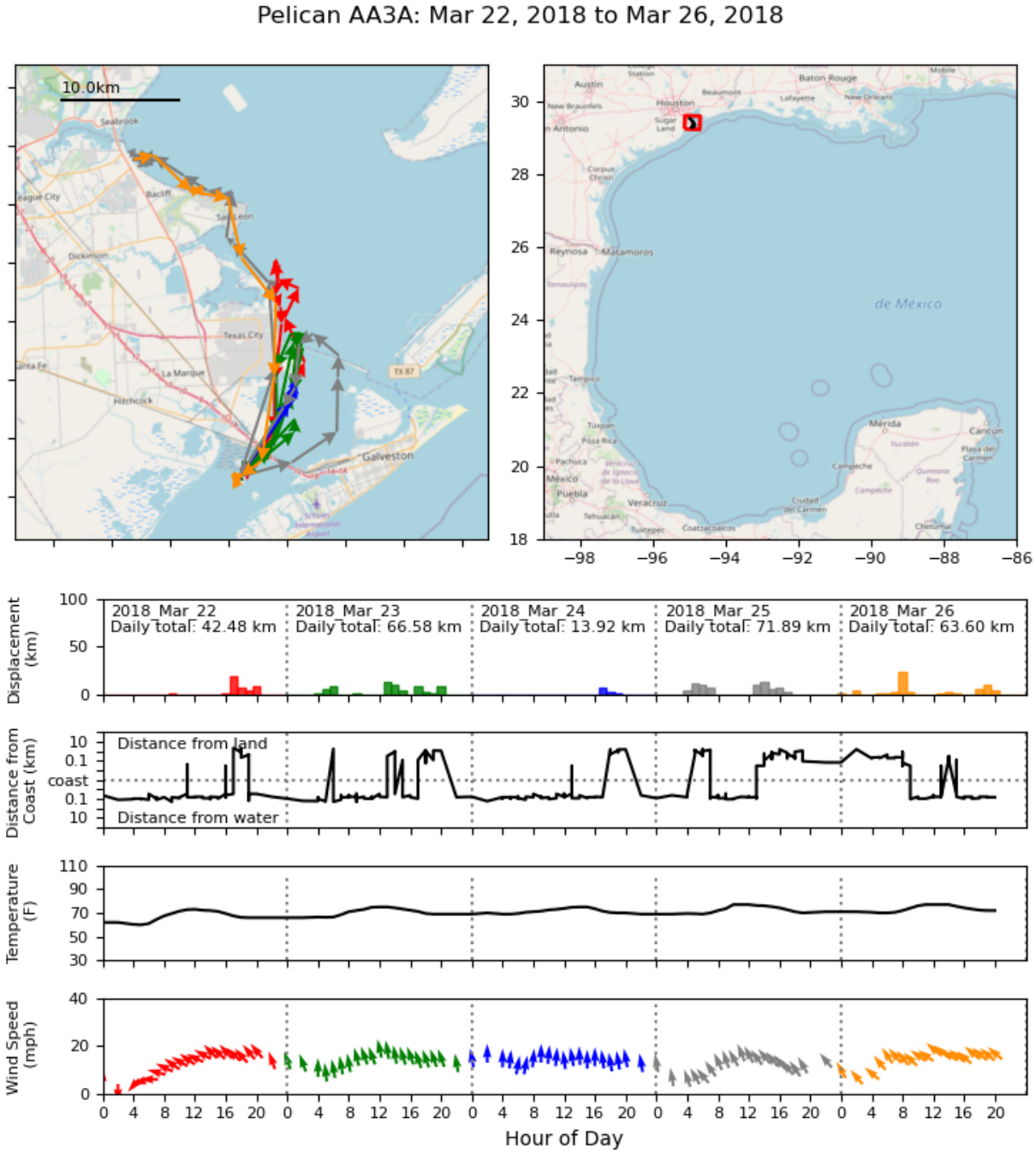

Figure 665 - Maps and graphs showing movements of AA3A between 2018-03-22 and 2018-03-25 inclusive.

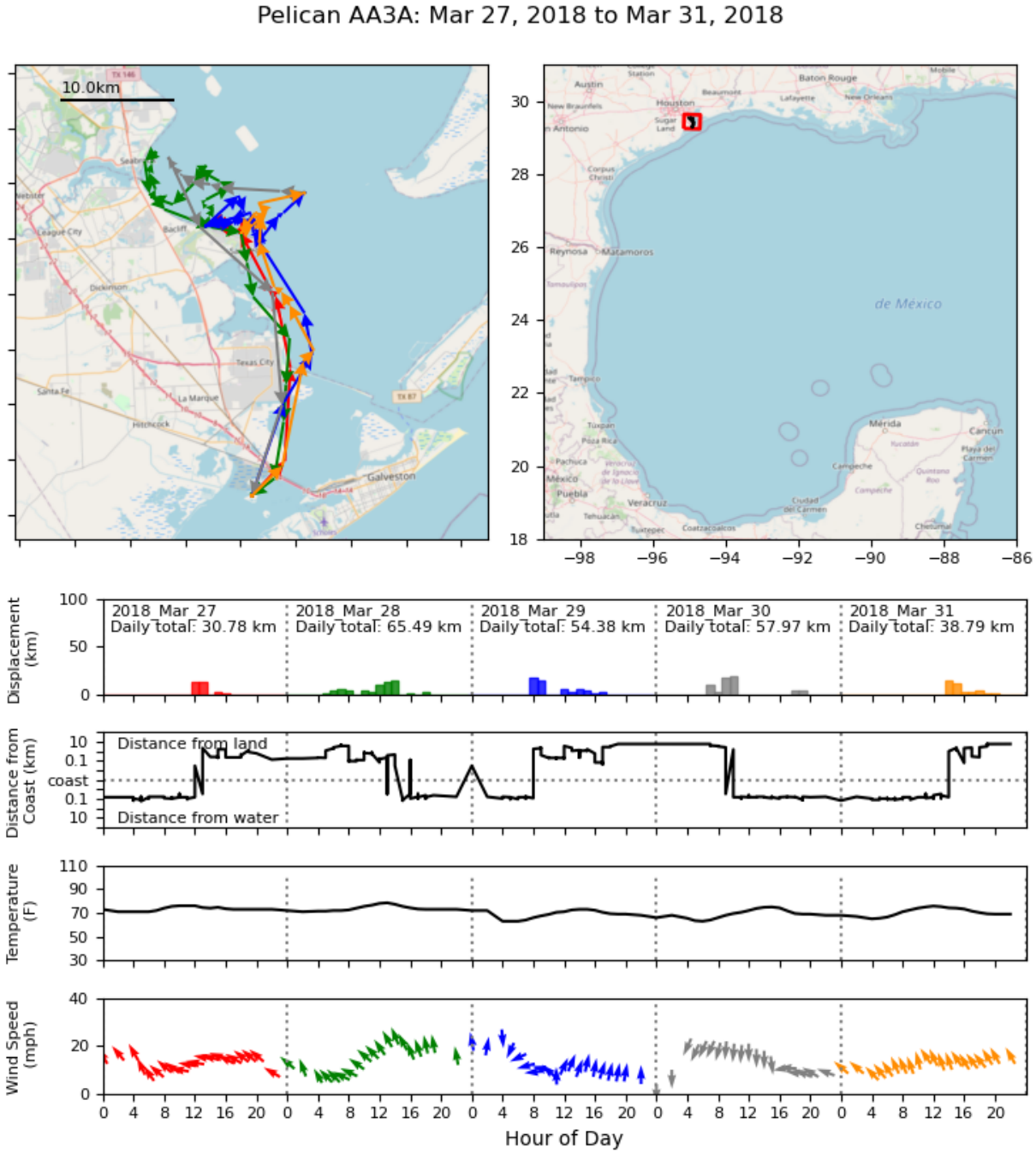

Figure 666 - Maps and graphs showing movements of AA3A between 2018-03-27 and 2018-03-30 inclusive.

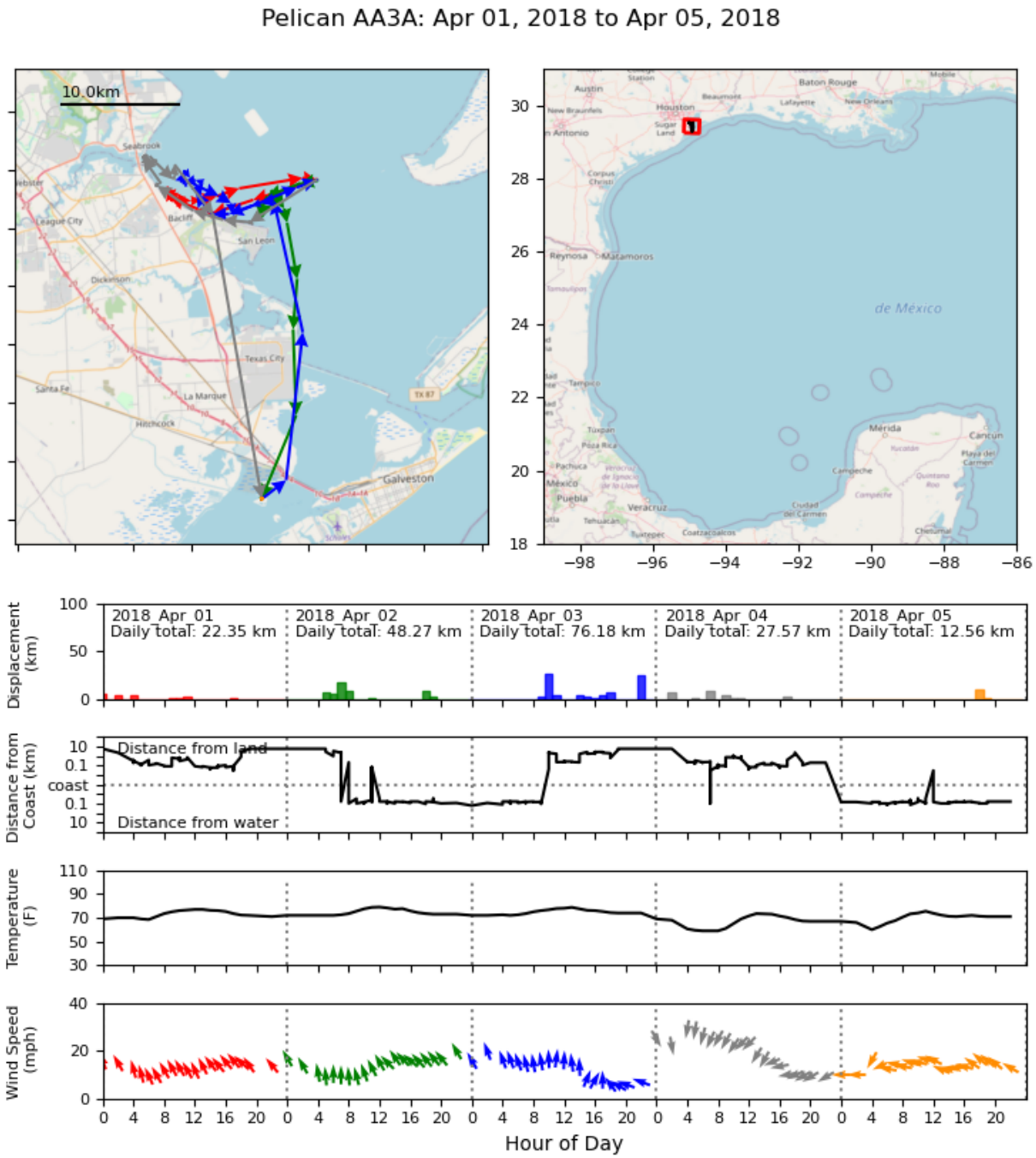

Figure 667 - Maps and graphs showing movements of AA3A between 2018-04-01 and 2018-04-04 inclusive.

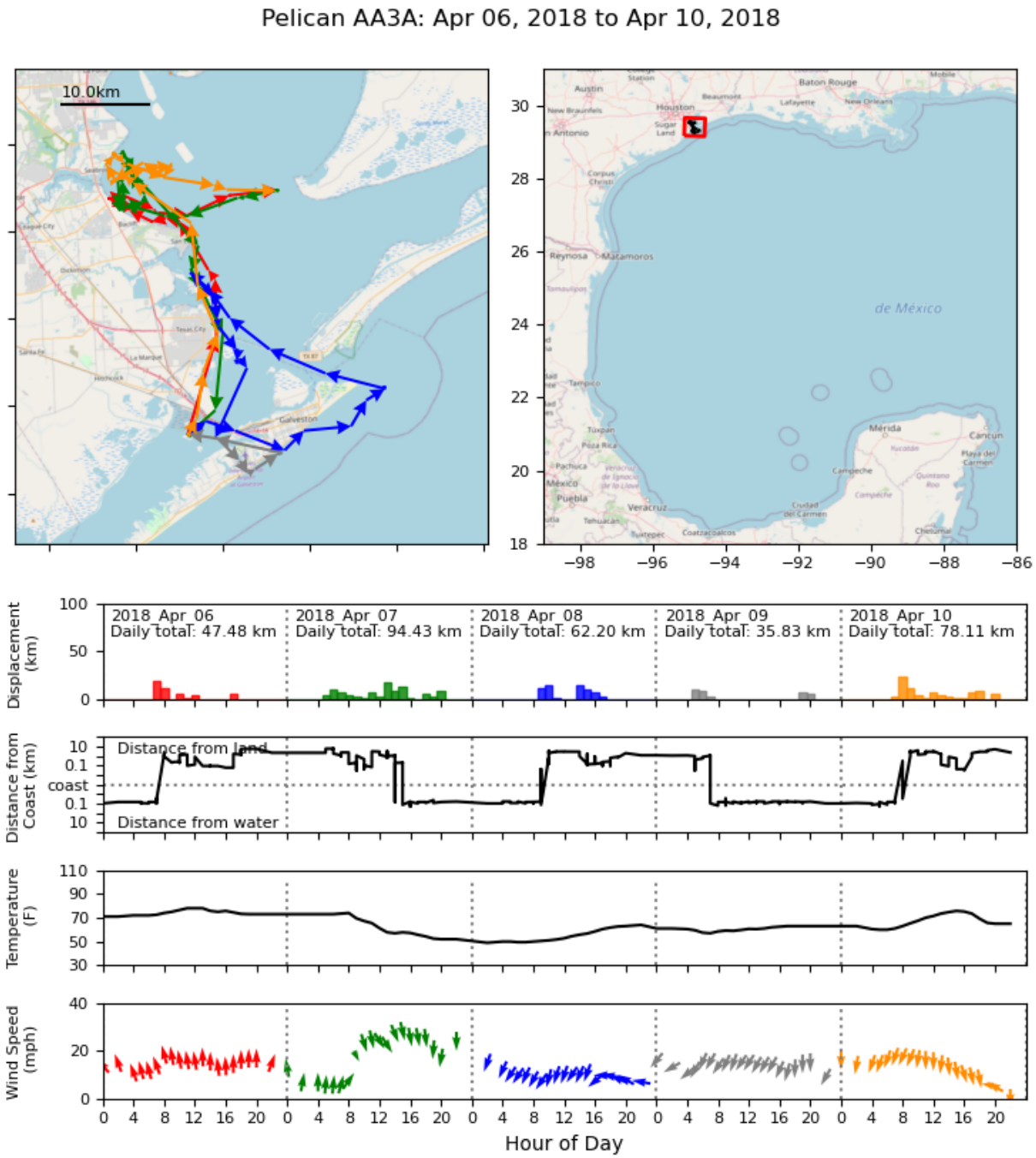

Figure 668 - Maps and graphs showing movements of AA3A between 2018-04-06 and 2018-04-09 inclusive.

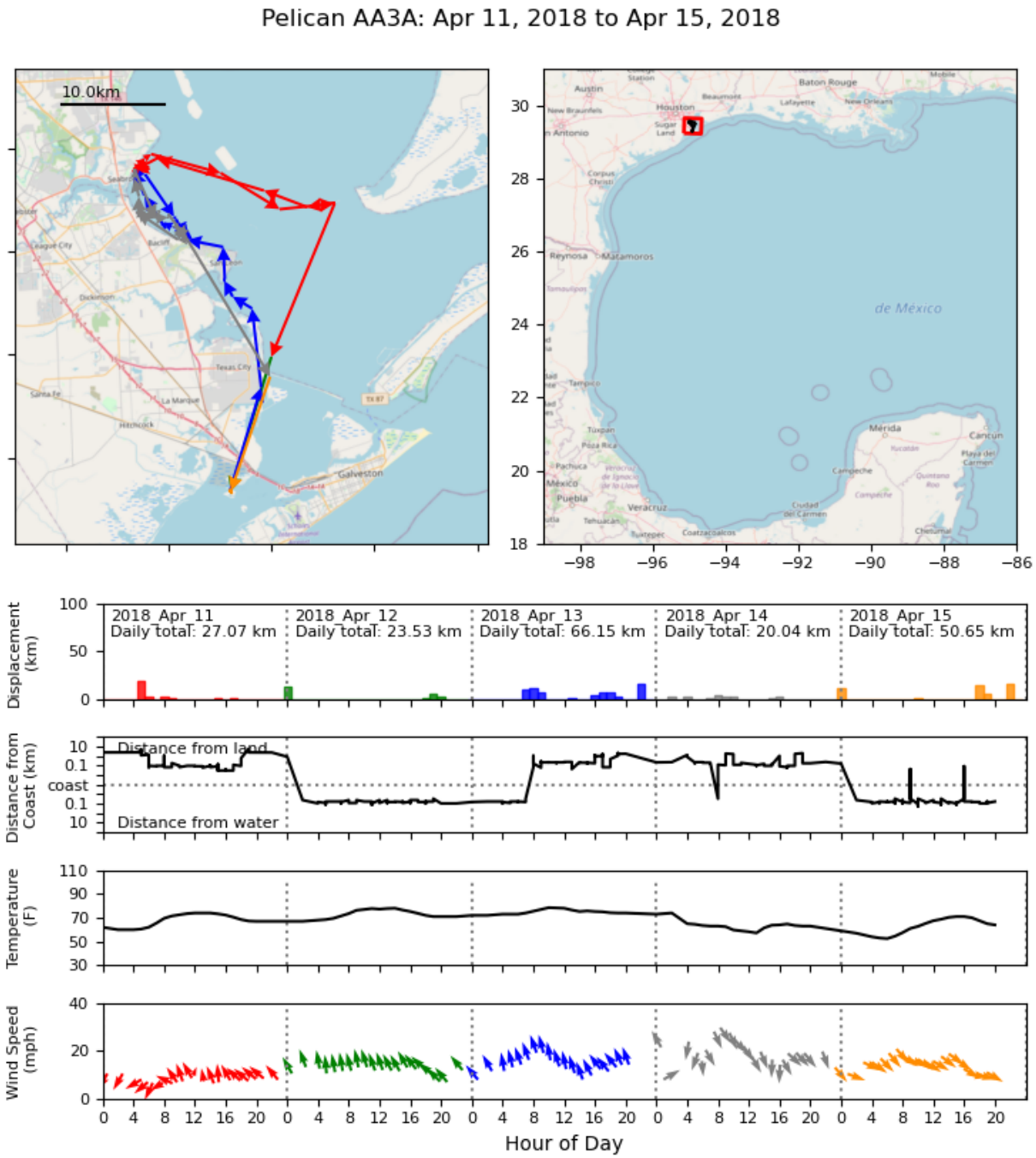

Figure 669 - Maps and graphs showing movements of AA3A between 2018-04-11 and 2018-04-14 inclusive.

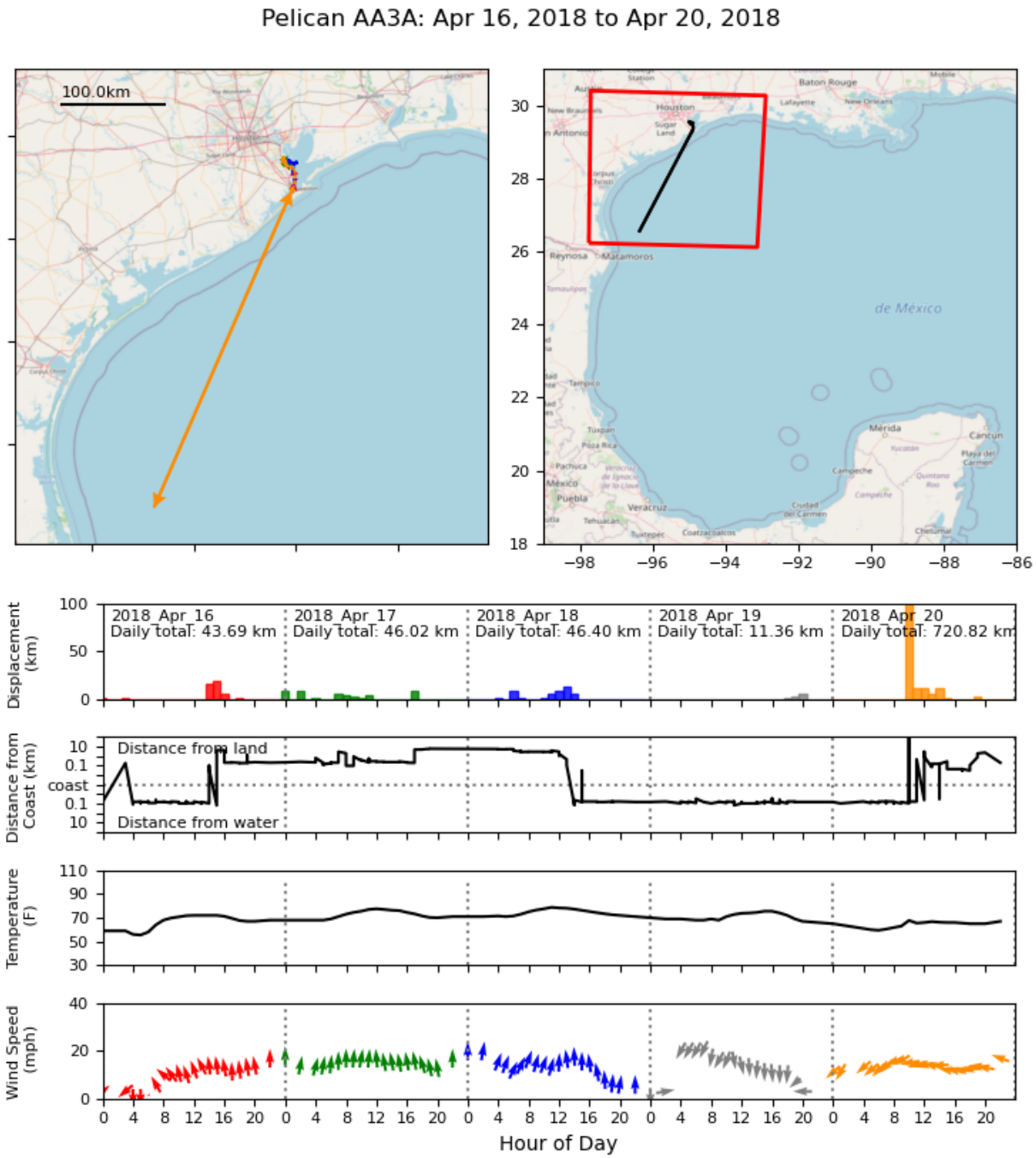

Figure 670 - Maps and graphs showing movements of AA3A between 2018-04-16 and 2018-04-19 inclusive.

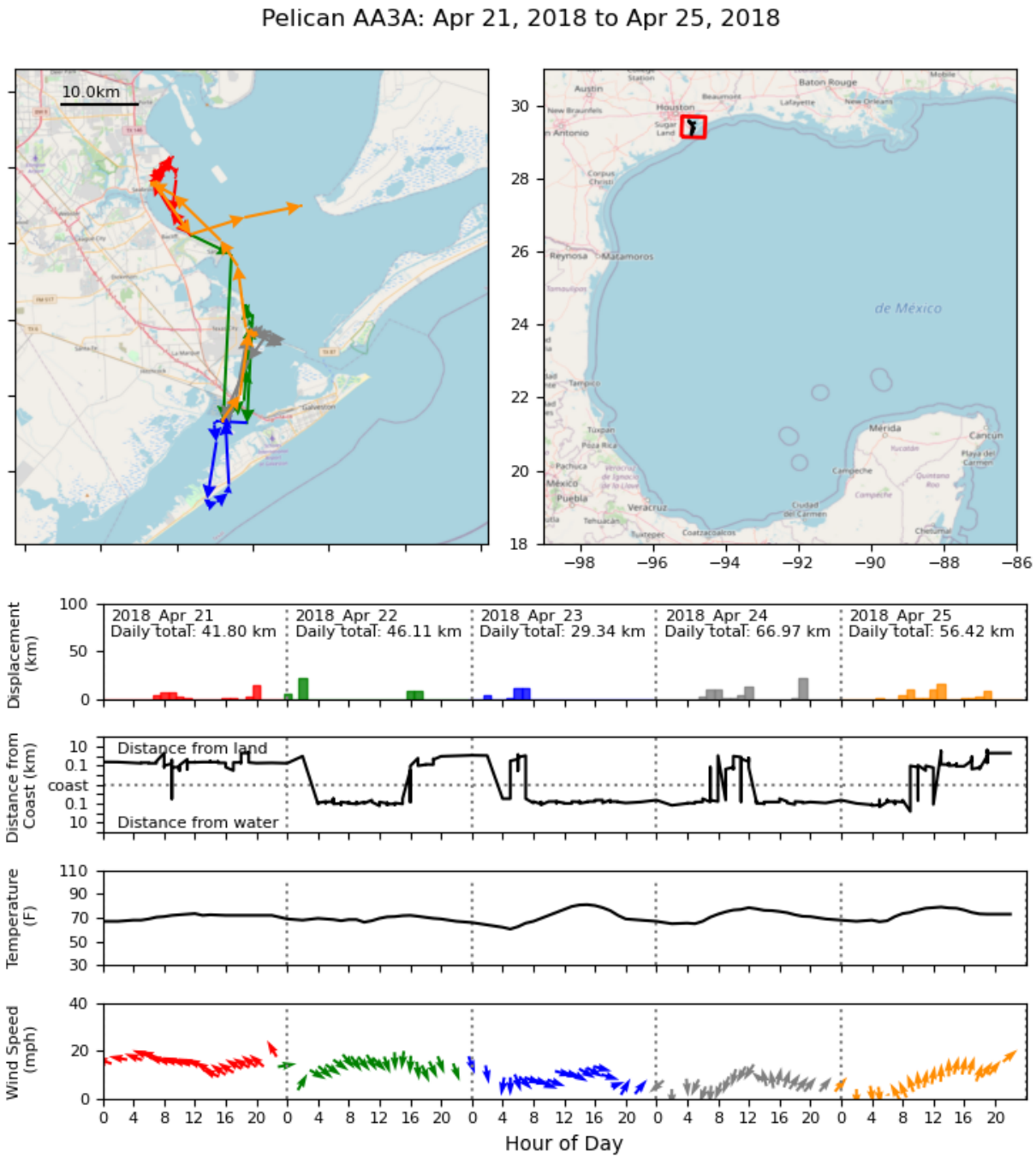

Figure 671 - Maps and graphs showing movements of AA3A between 2018-04-21 and 2018-04-24 inclusive.

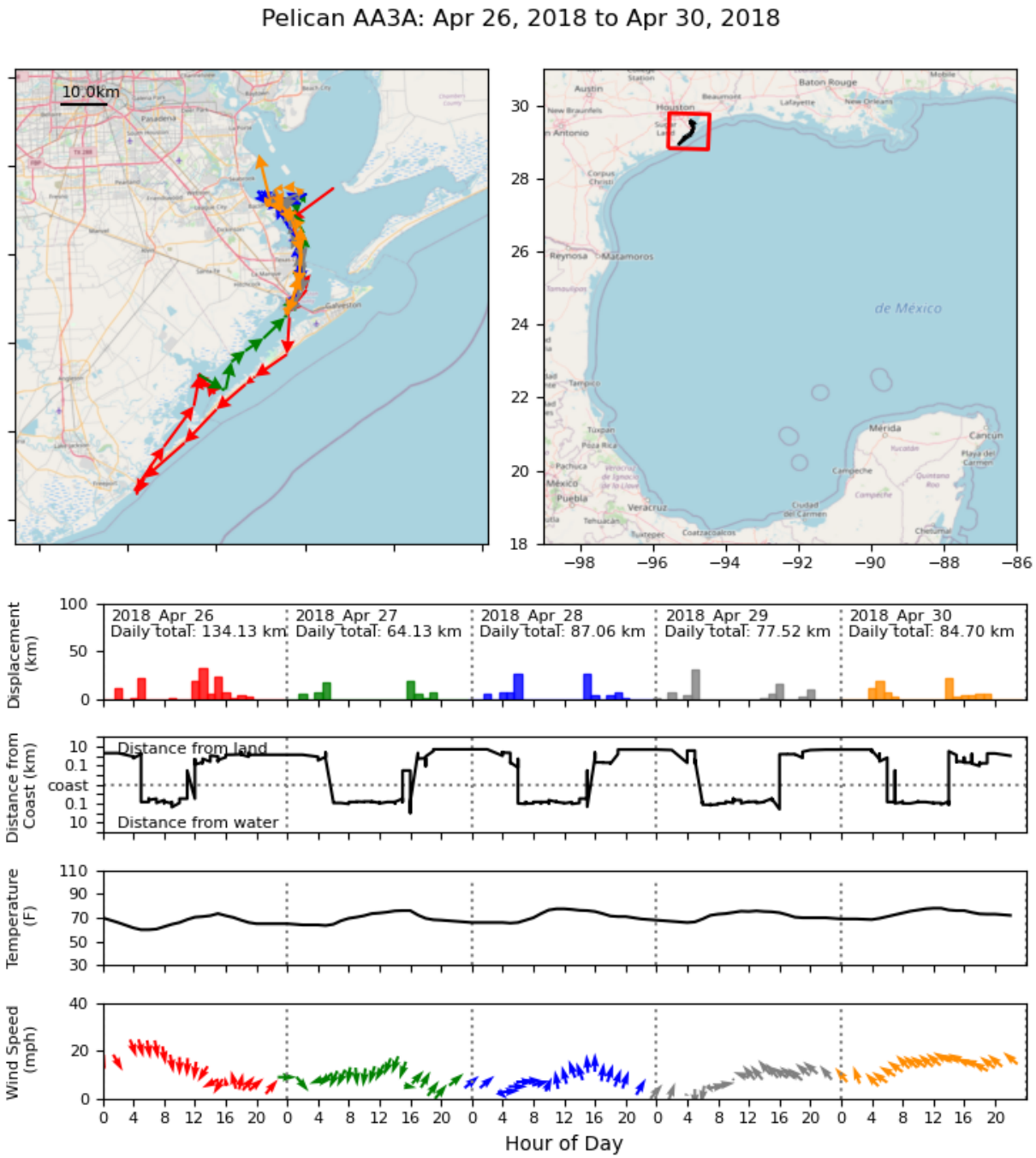

Figure 672 - Maps and graphs showing movements of AA3A between 2018-04-26 and 2018-04-29 inclusive.

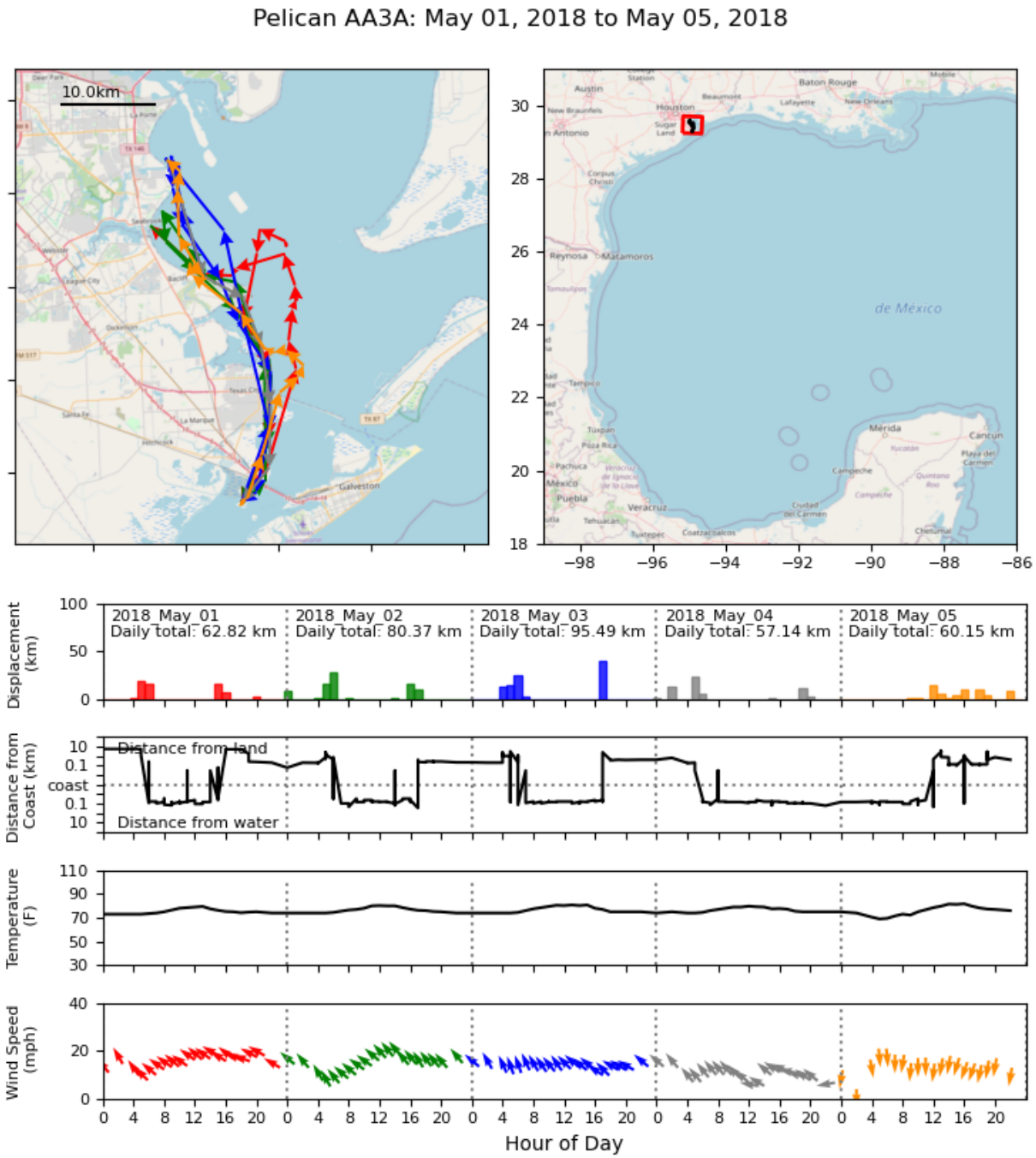

Figure 673 - Maps and graphs showing movements of AA3A between 2018-05-01 and 2018-05-04 inclusive.

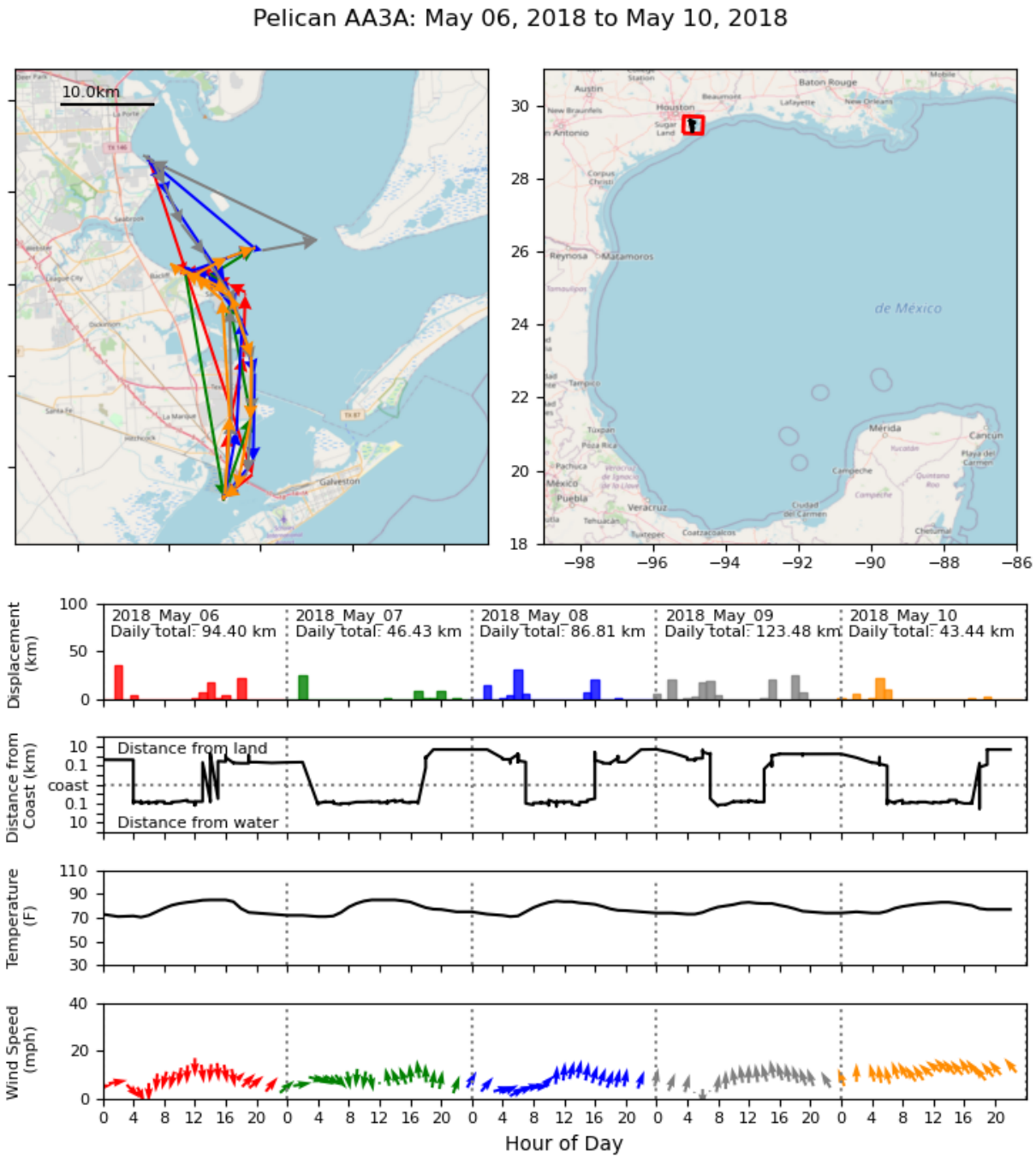

Figure 674 - Maps and graphs showing movements of AA3A between 2018-05-06 and 2018-05-09 inclusive.

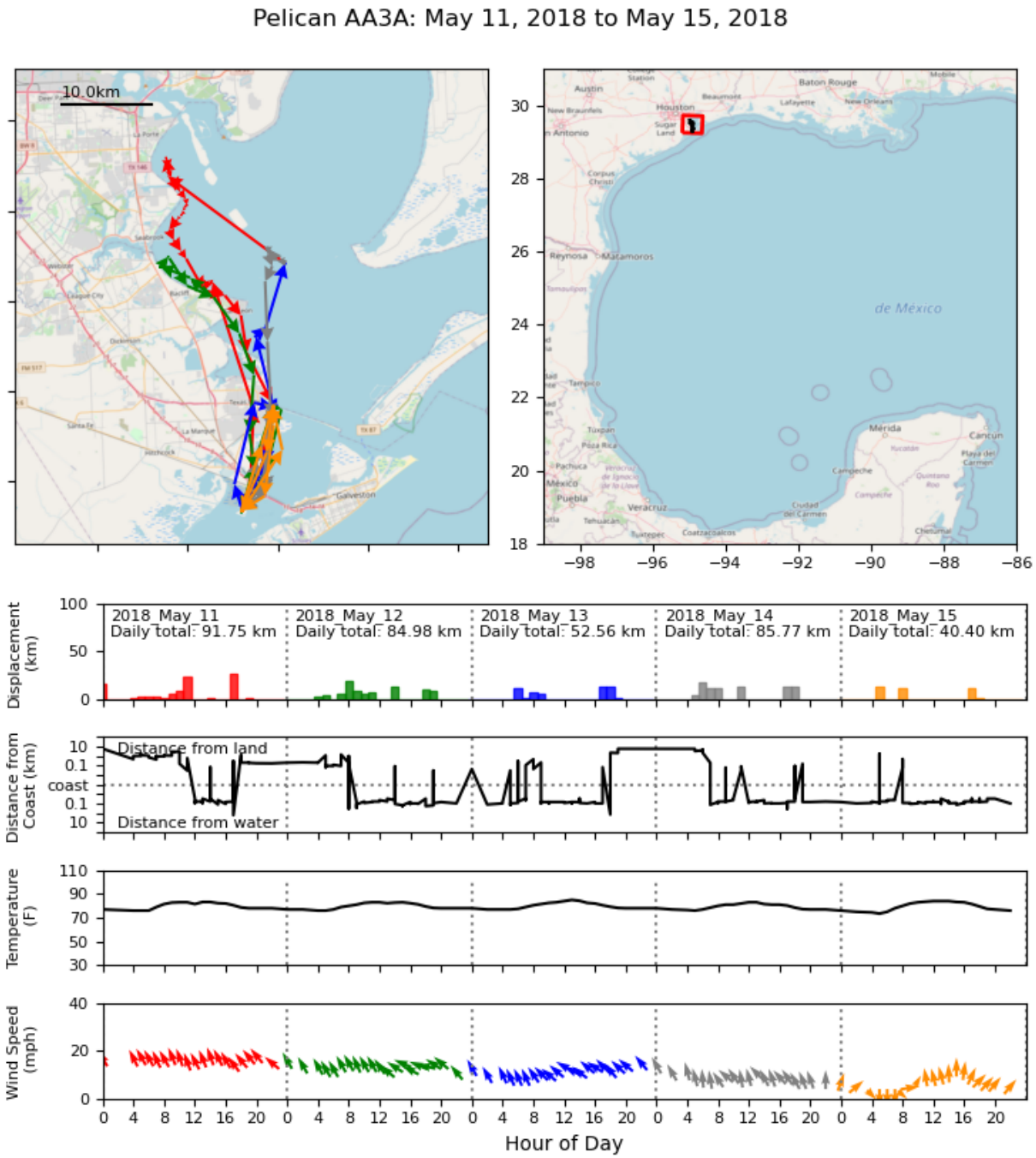

Figure 675 - Maps and graphs showing movements of AA3A between 2018-05-11 and 2018-05-14 inclusive.

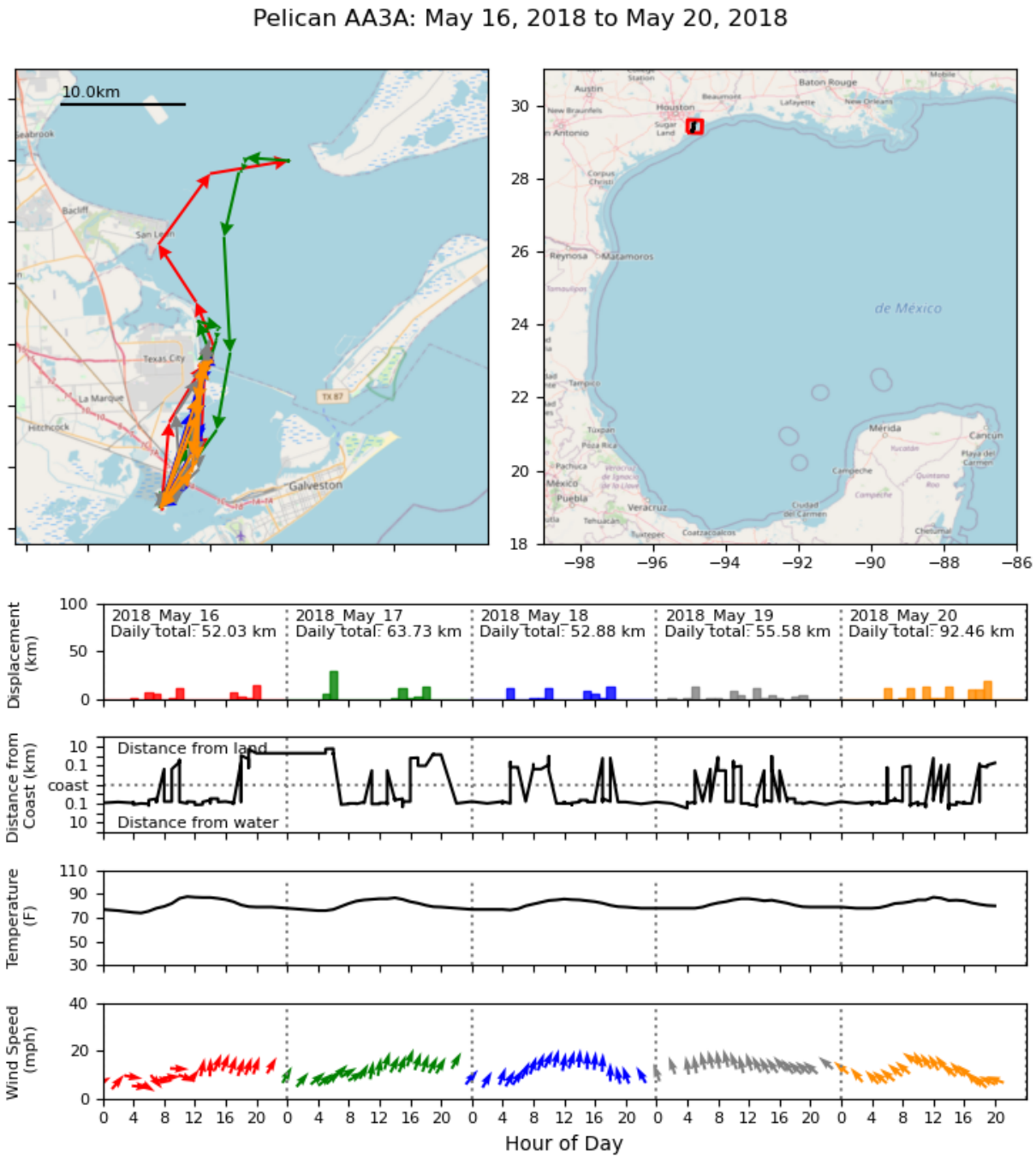

Figure 676 - Maps and graphs showing movements of AA3A between 2018-05-16 and 2018-05-19 inclusive.

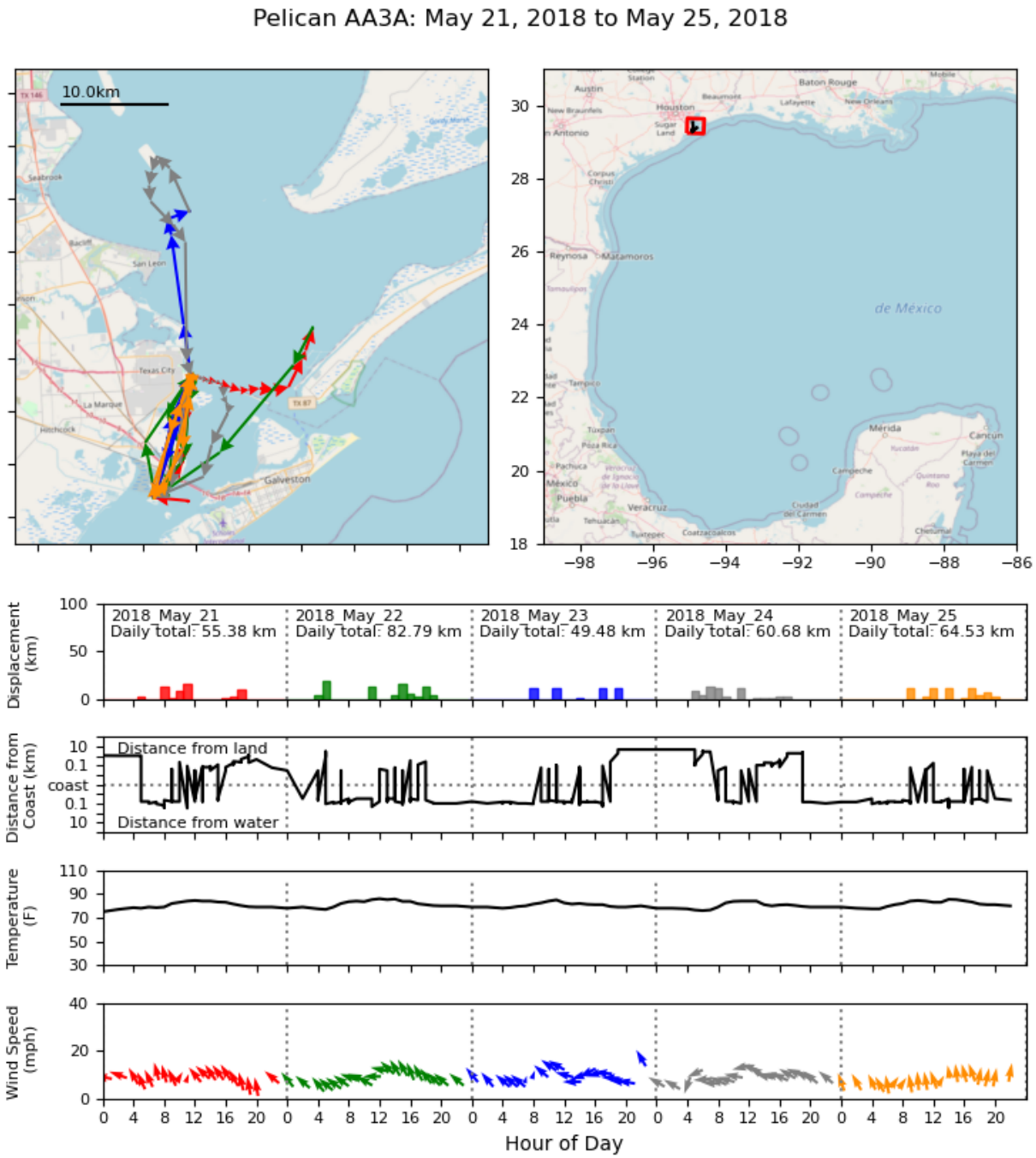

Figure 677 - Maps and graphs showing movements of AA3A between 2018-05-21 and 2018-05-24 inclusive.

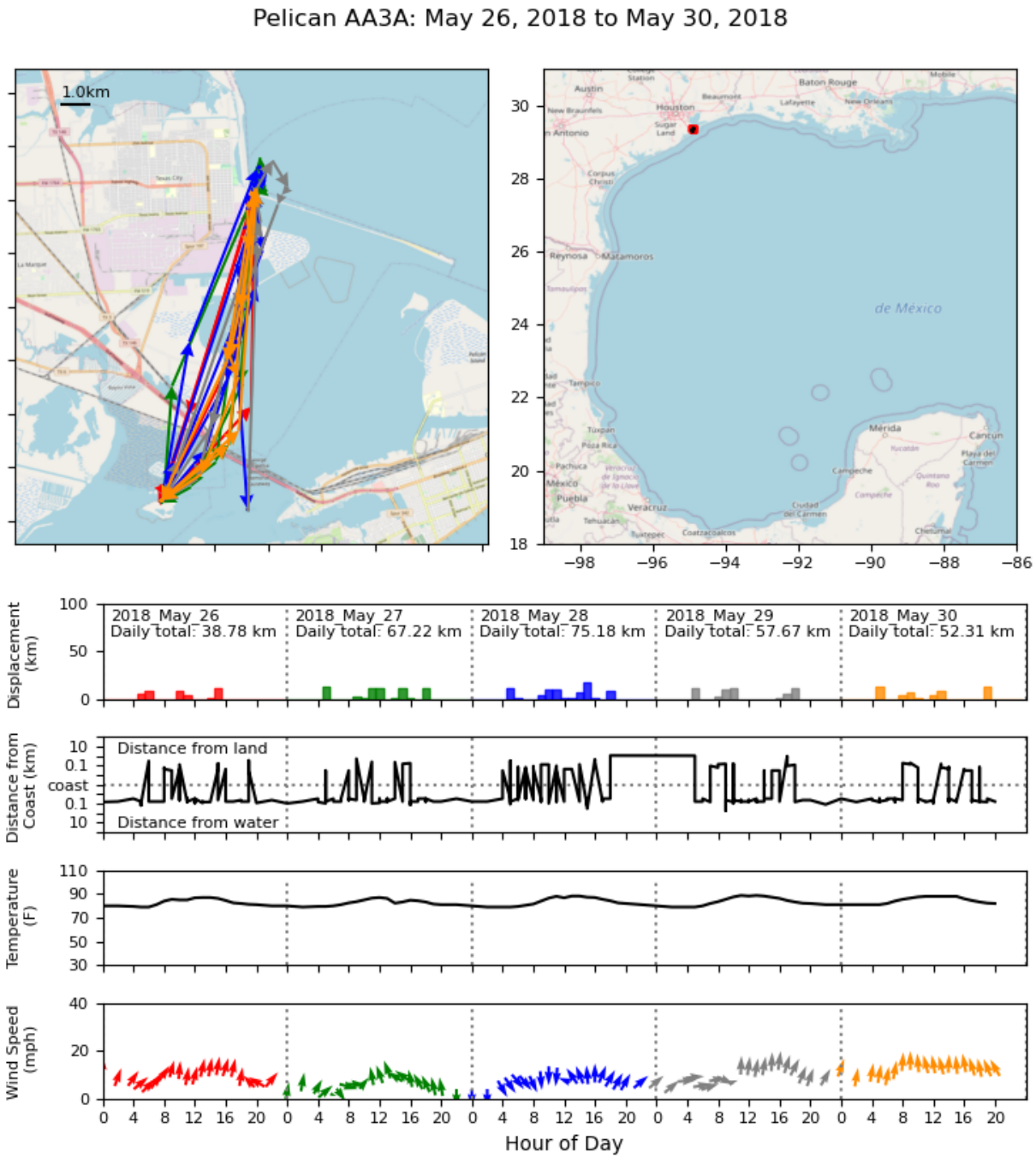

Figure 678 - Maps and graphs showing movements of AA3A between 2018-05-26 and 2018-05-29 inclusive.

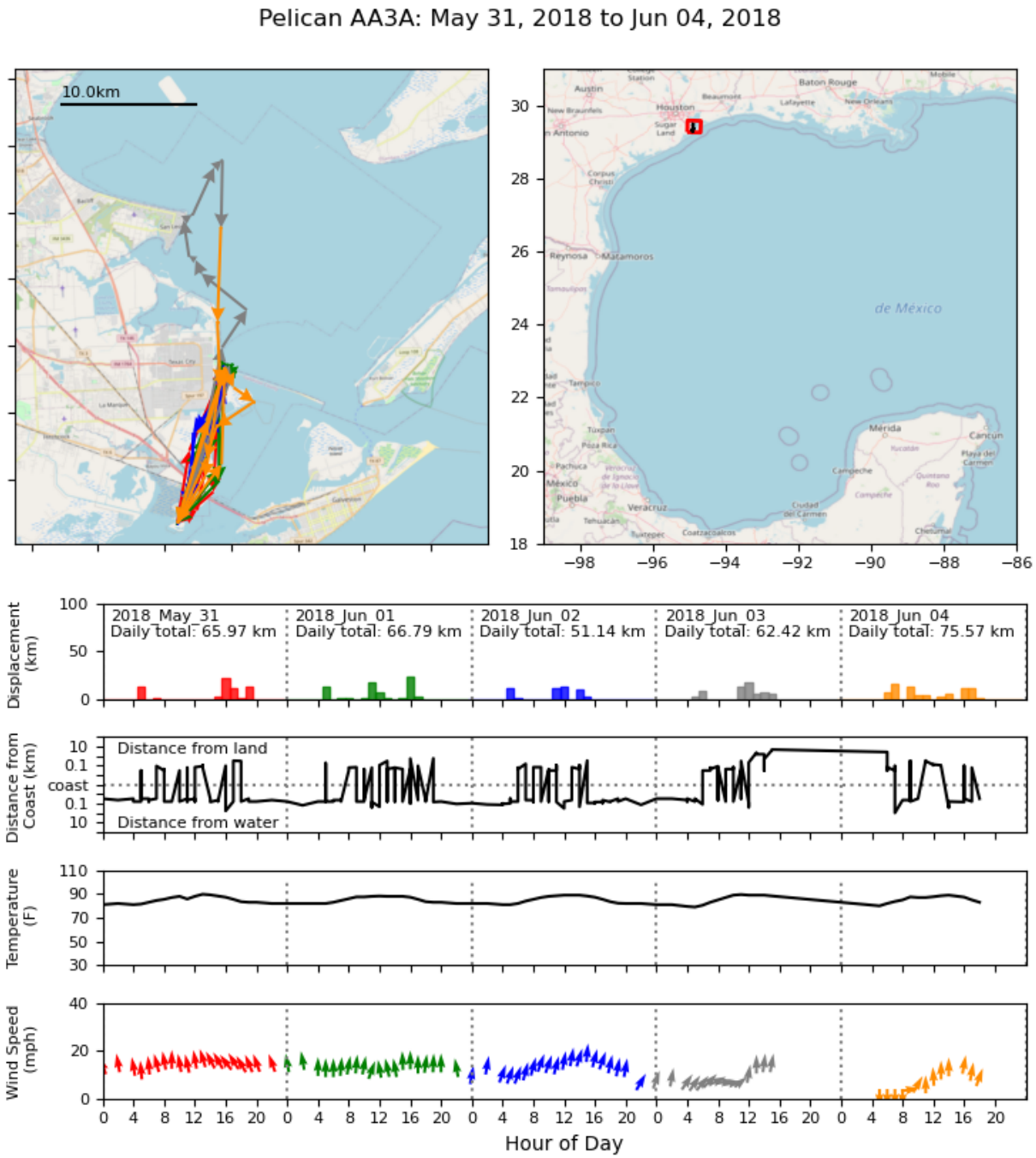

Figure 679 - Maps and graphs showing movements of AA3A between 2018-05-31 and 2018-06-03 inclusive.

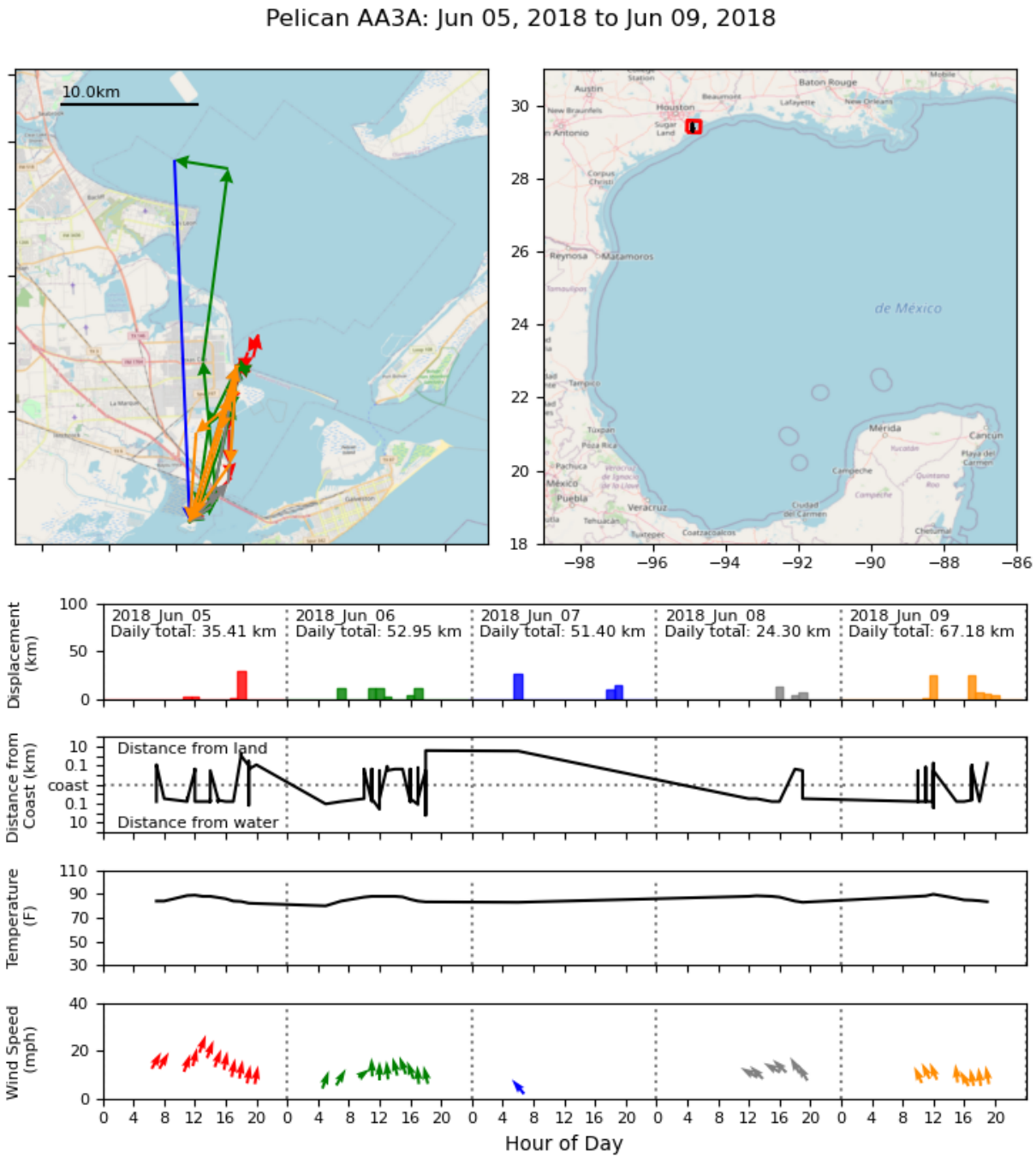

Figure 680 - Maps and graphs showing movements of AA3A between 2018-06-05 and 2018-06-08 inclusive.

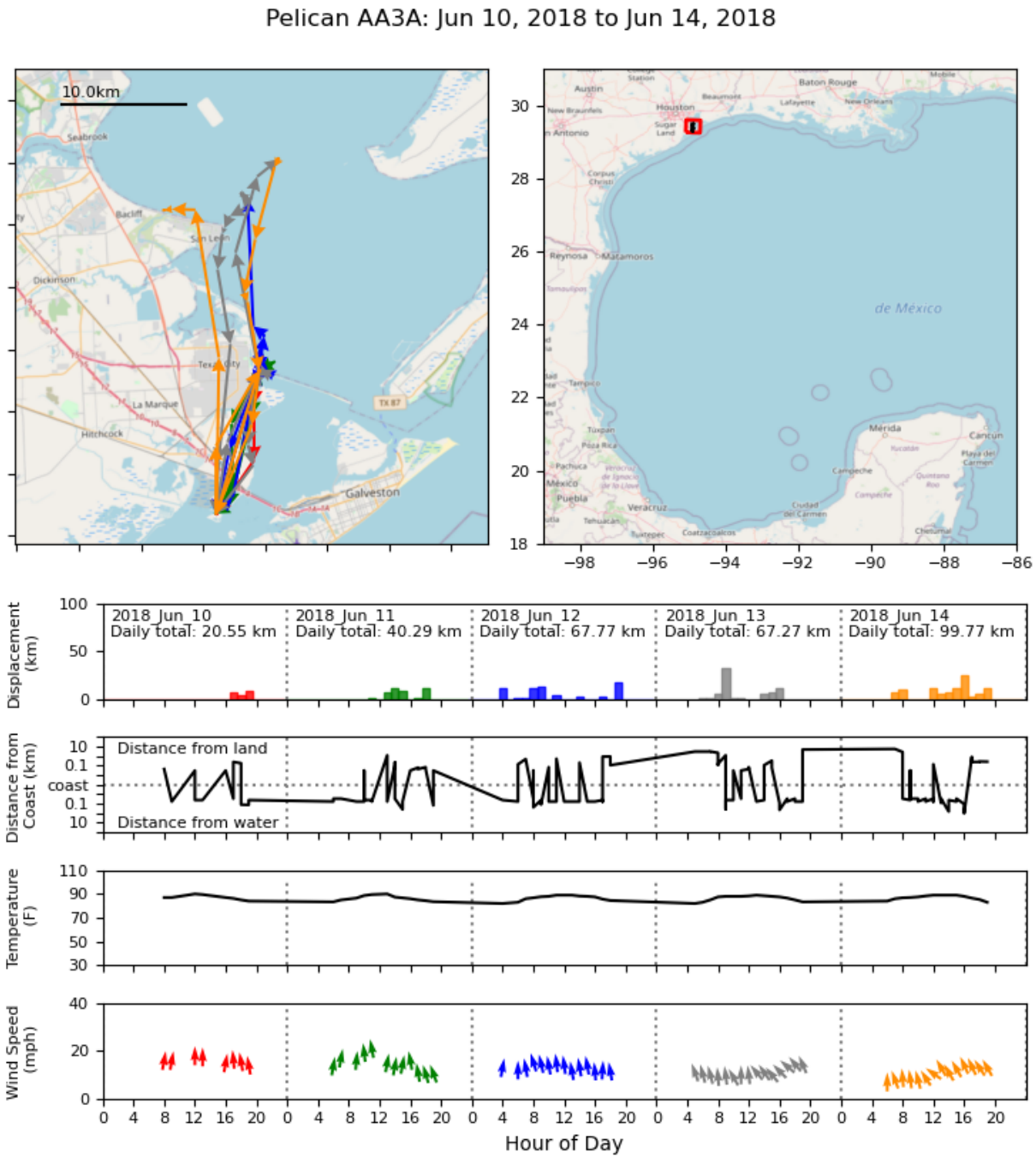

Figure 681 - Maps and graphs showing movements of AA3A between 2018-06-10 and 2018-06-13 inclusive.

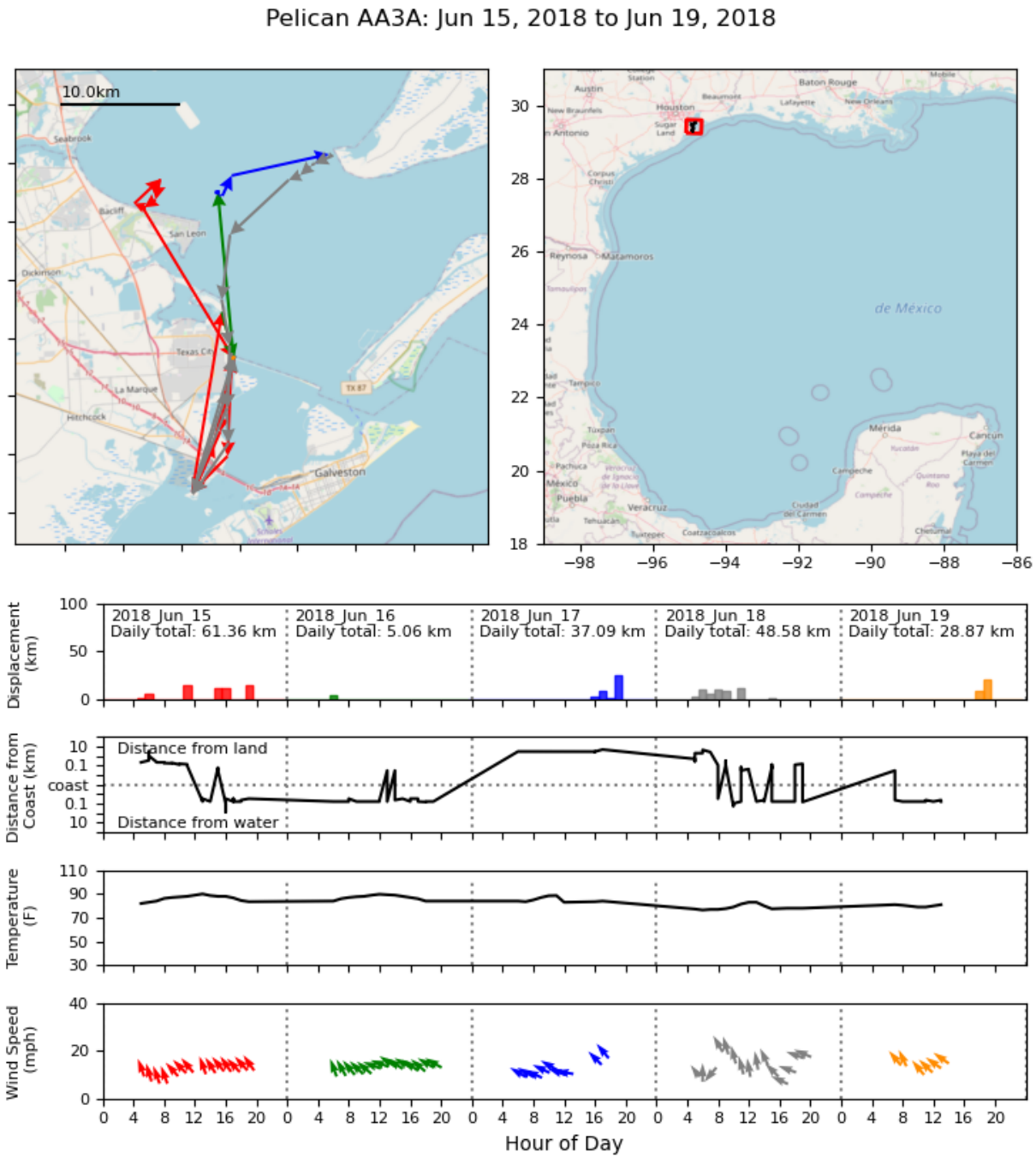

Figure 682 - Maps and graphs showing movements of AA3A between 2018-06-15 and 2018-06-18 inclusive.

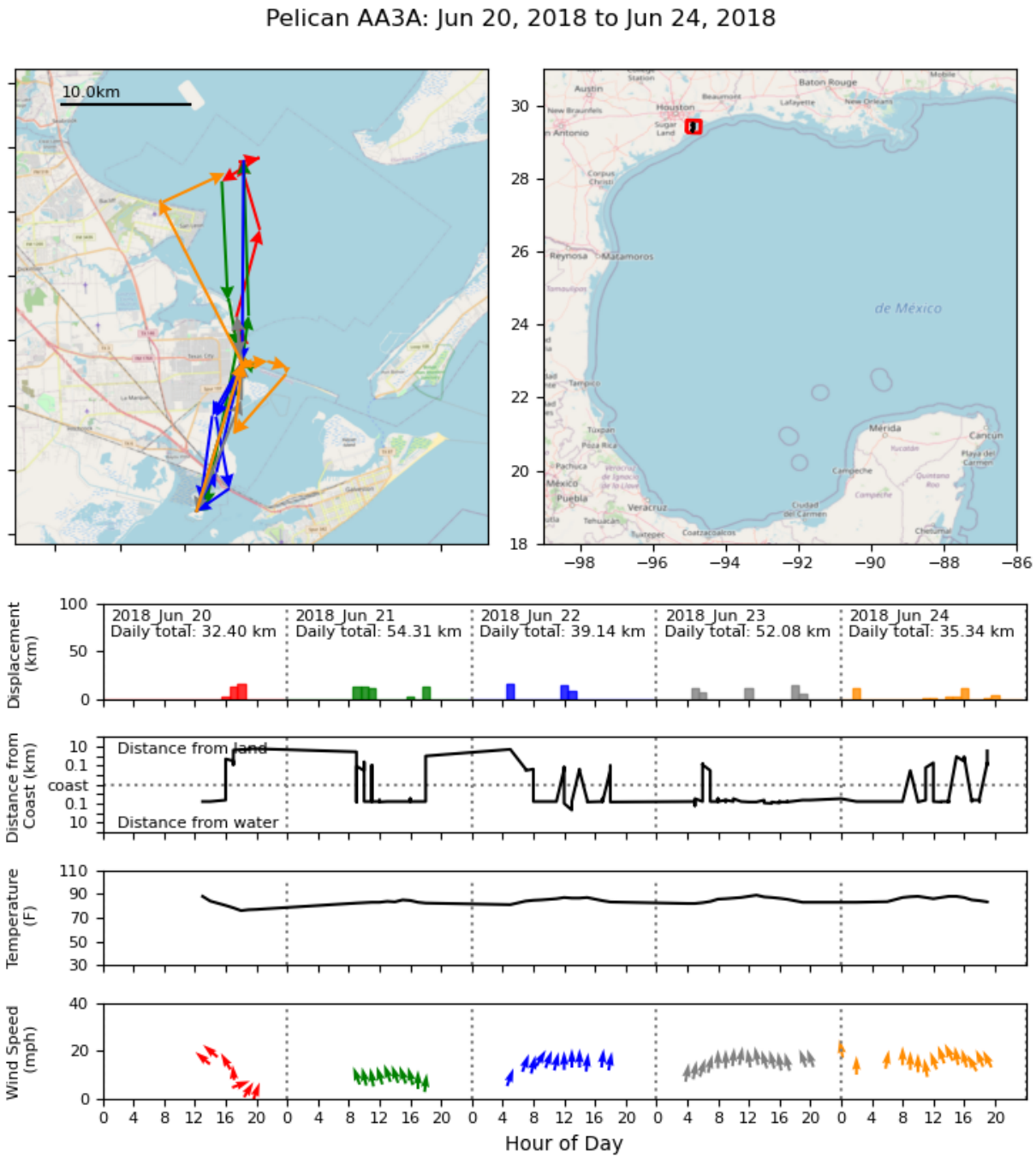

Figure 683 - Maps and graphs showing movements of AA3A between 2018-06-20 and 2018-06-23 inclusive.

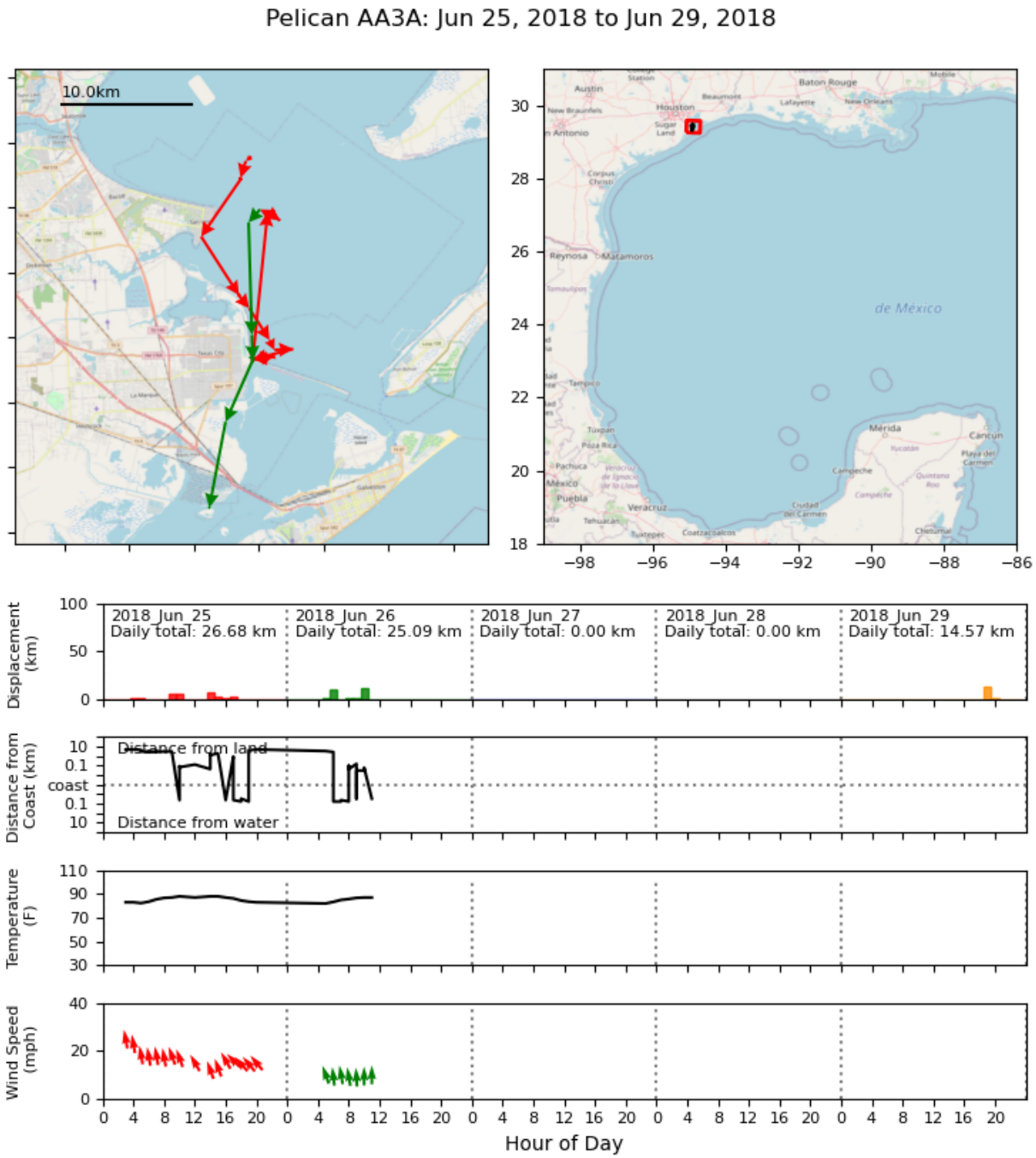

Figure 684 - Maps and graphs showing movements of AA3A between 2018-06-25 and 2018-06-28 inclusive.

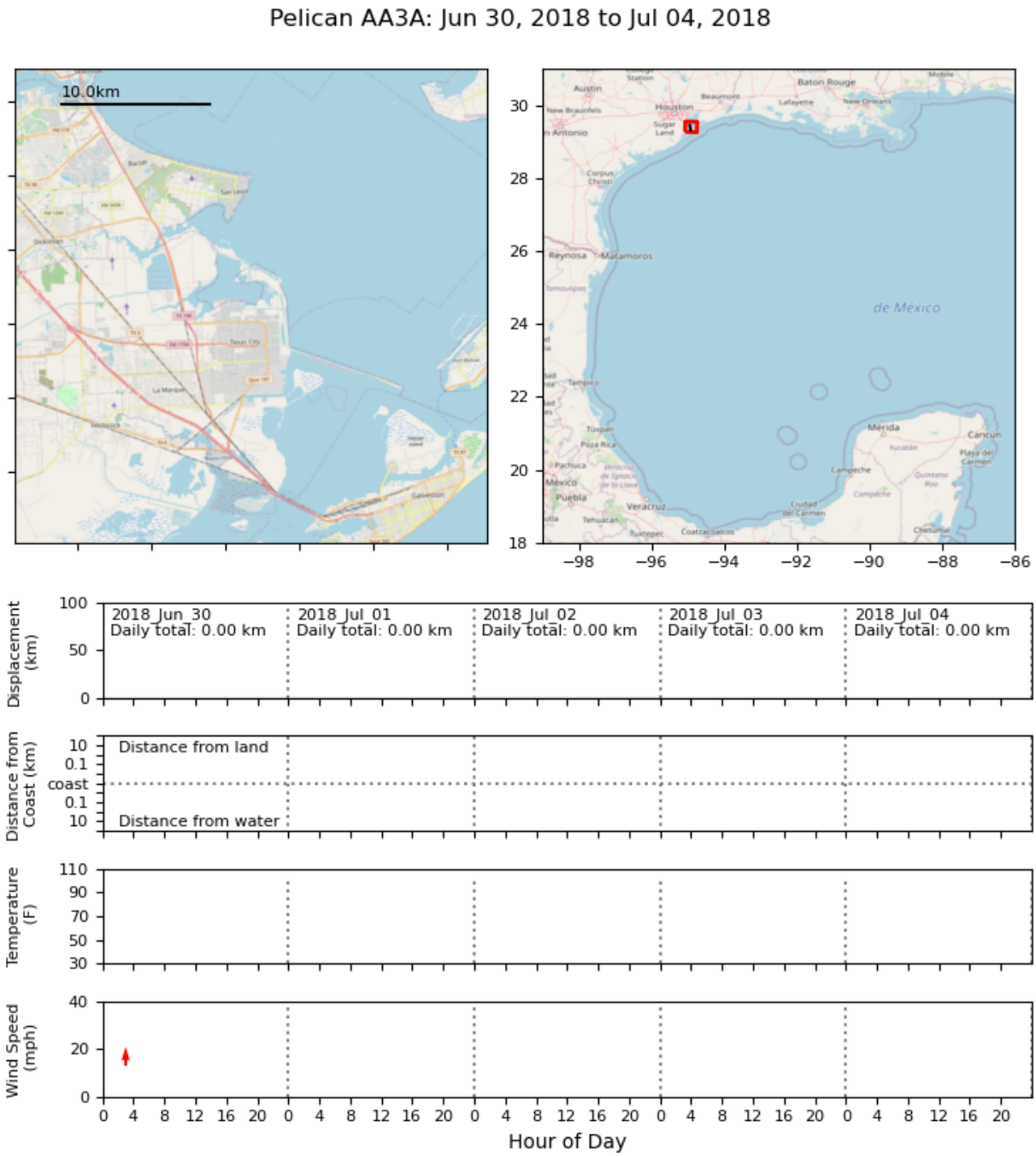

Figure 685 - Maps and graphs showing movements of AA3A between 2018-06-30 and 2018-07-03 inclusive.

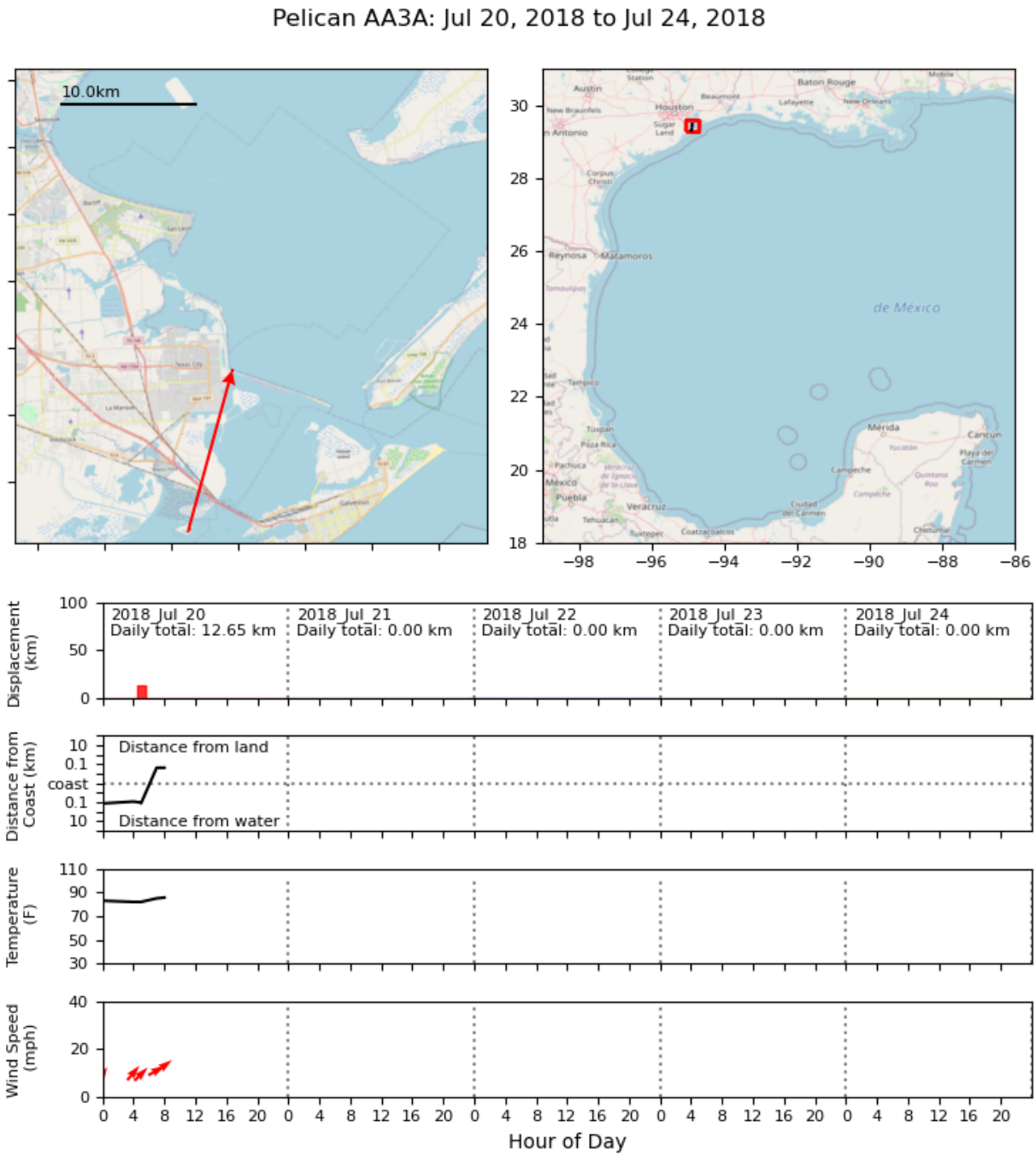

Figure 686 - Maps and graphs showing movements of AA3A between 2018-07-20 and 2018-07-23 inclusive.

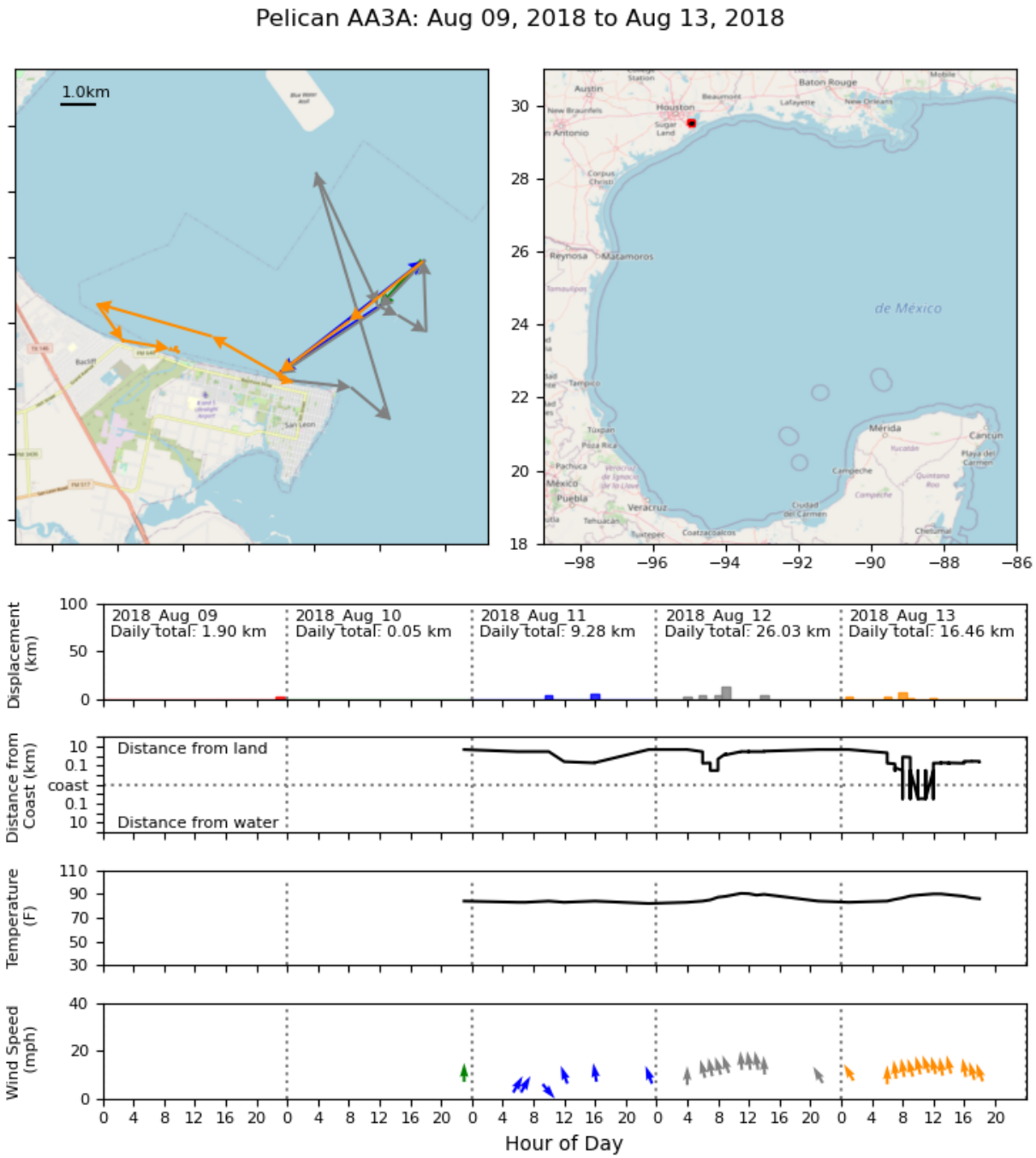

Figure 687 - Maps and graphs showing movements of AA3A between 2018-08-09 and 2018-08-12 inclusive.

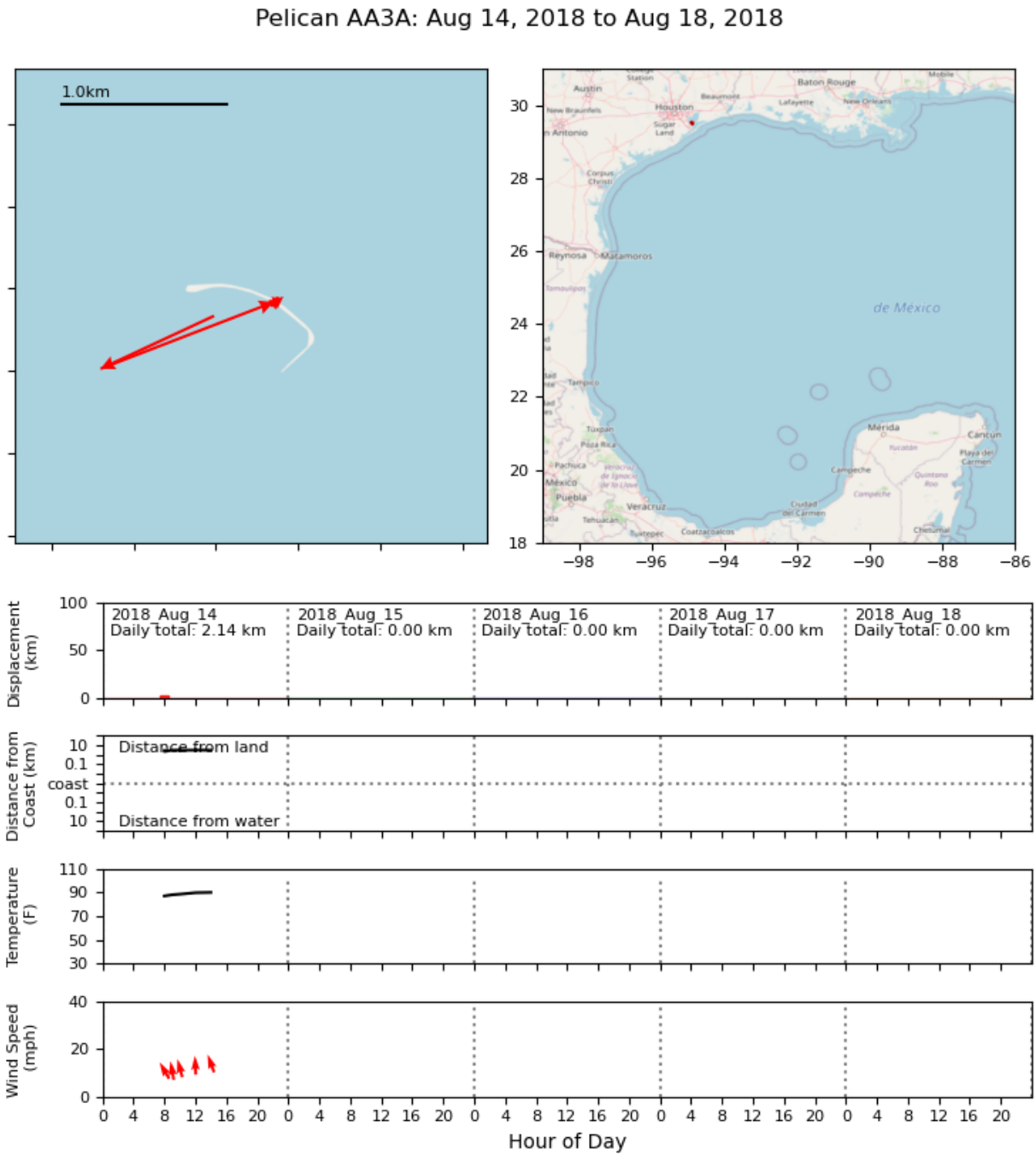

Figure 688 - Maps and graphs showing movements of AA3A between 2018-08-14 and 2018-08-17 inclusive.

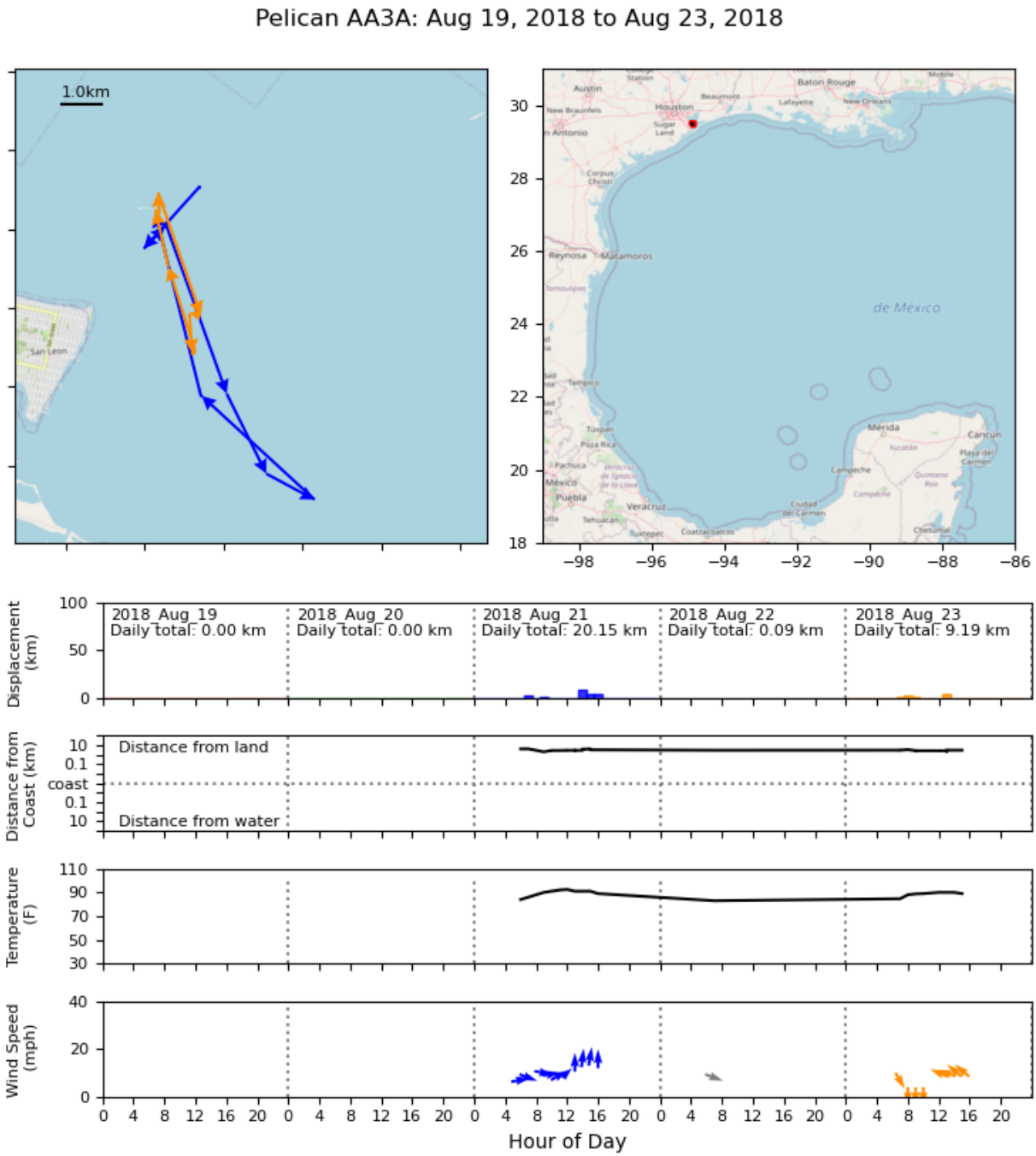

Figure 689 - Maps and graphs showing movements of AA3A between 2018-08-19 and 2018-08-22 inclusive.

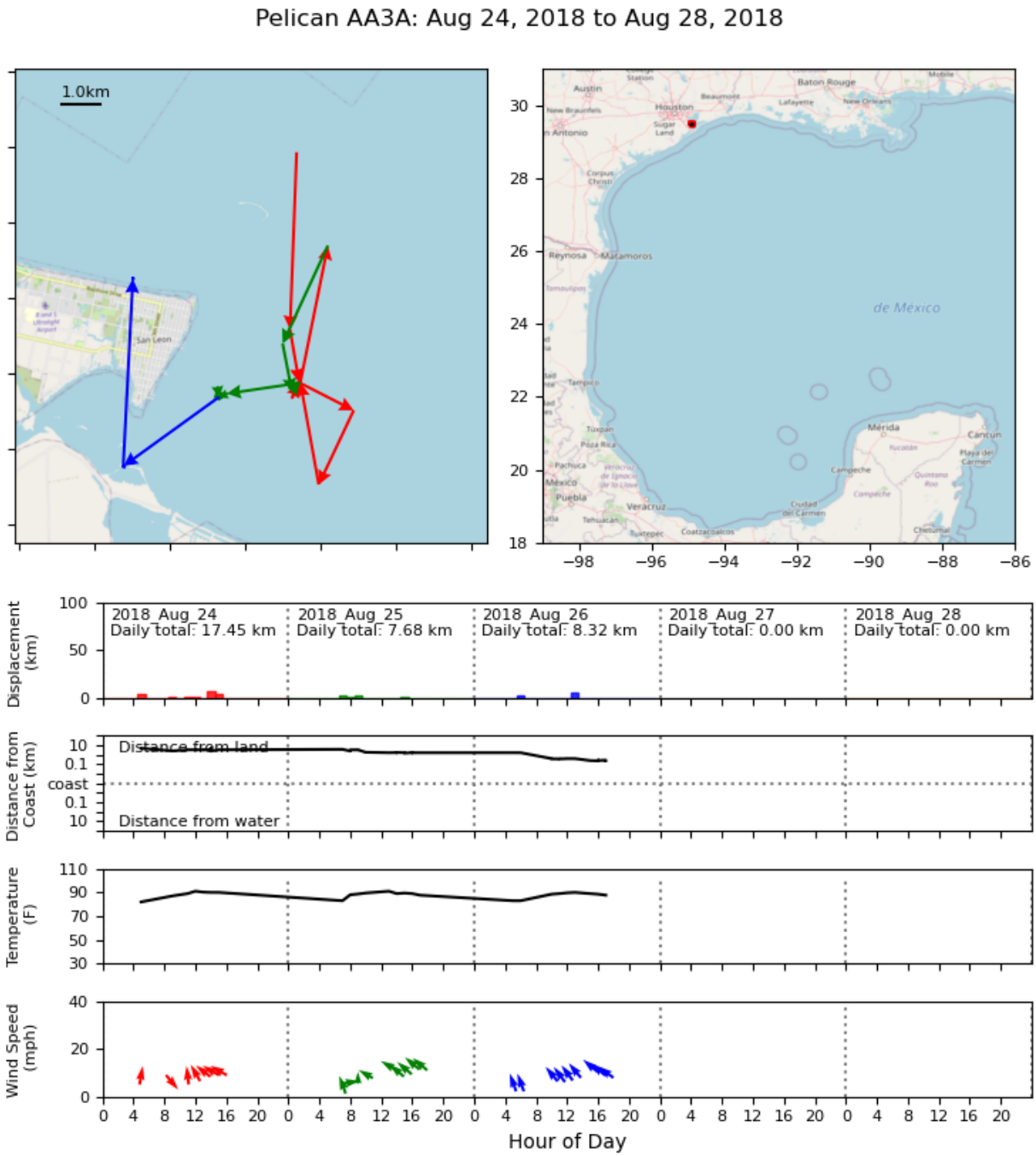

Figure 690 - Maps and graphs showing movements of AA3A between 2018-08-24 and 2018-08-27 inclusive.

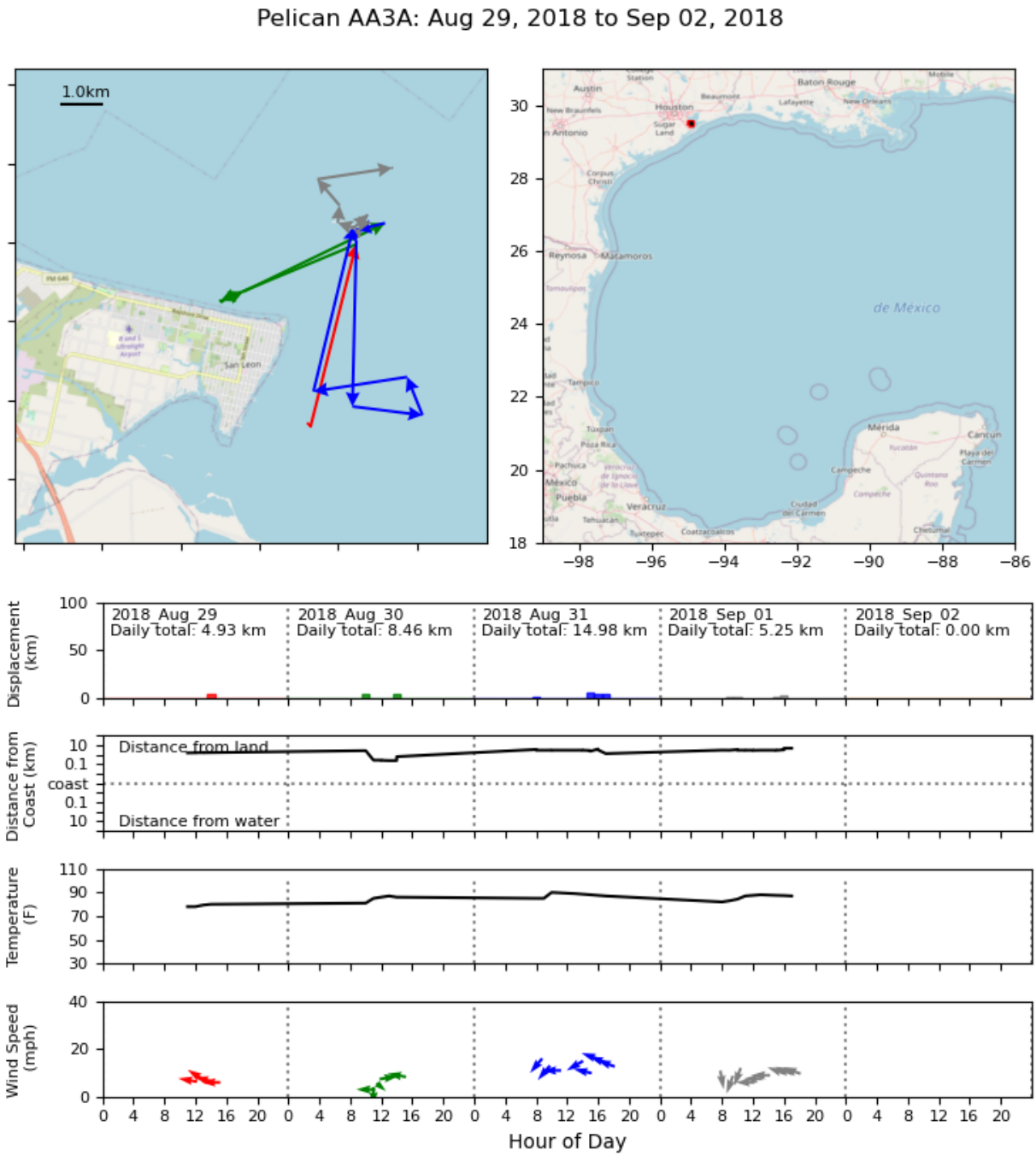

Figure 691 - Maps and graphs showing movements of AA3A between 2018-08-29 and 2018-09-01 inclusive.

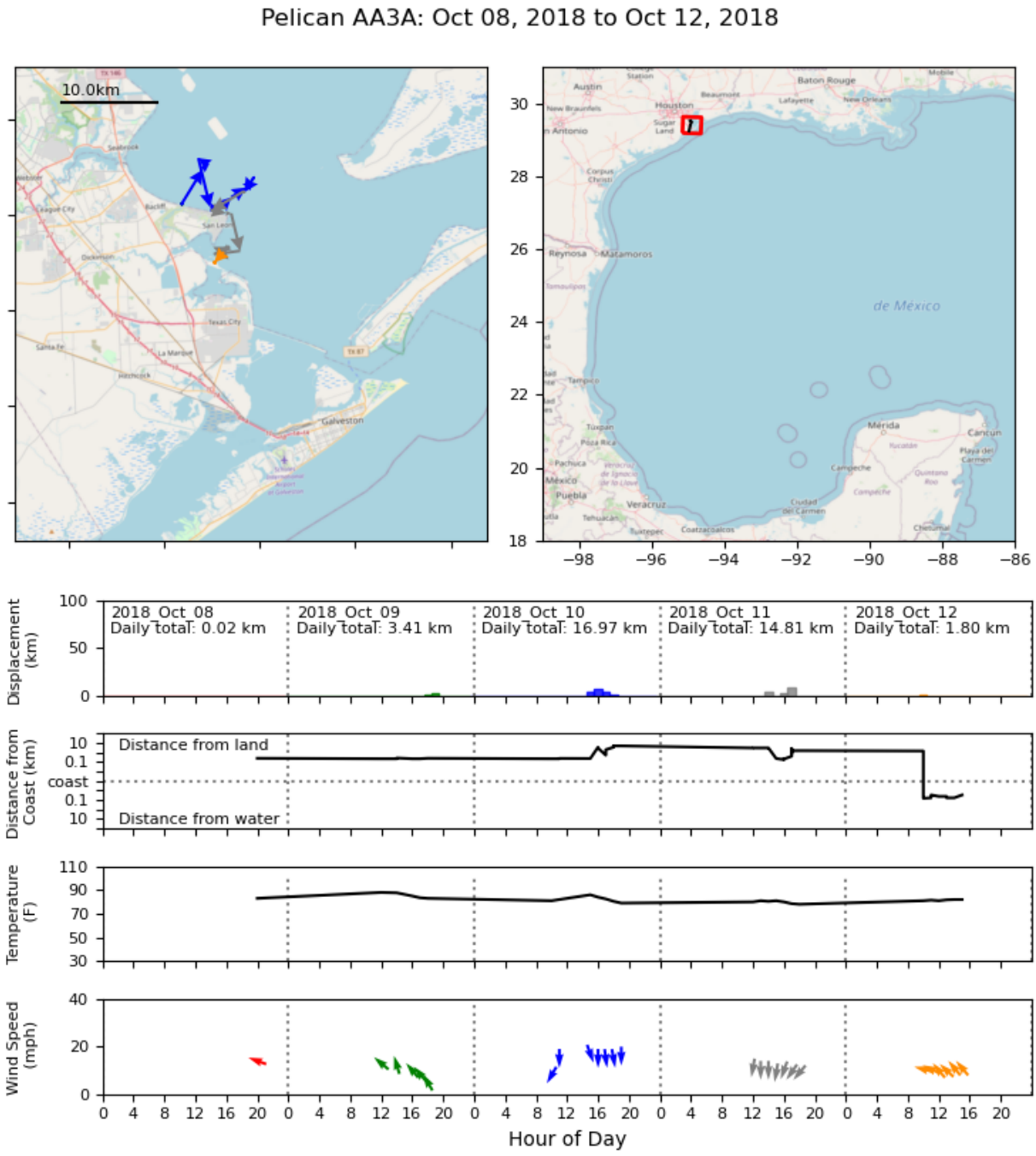

Figure 692 - Maps and graphs showing movements of AA3A between 2018-10-08 and 2018-10-11 inclusive.

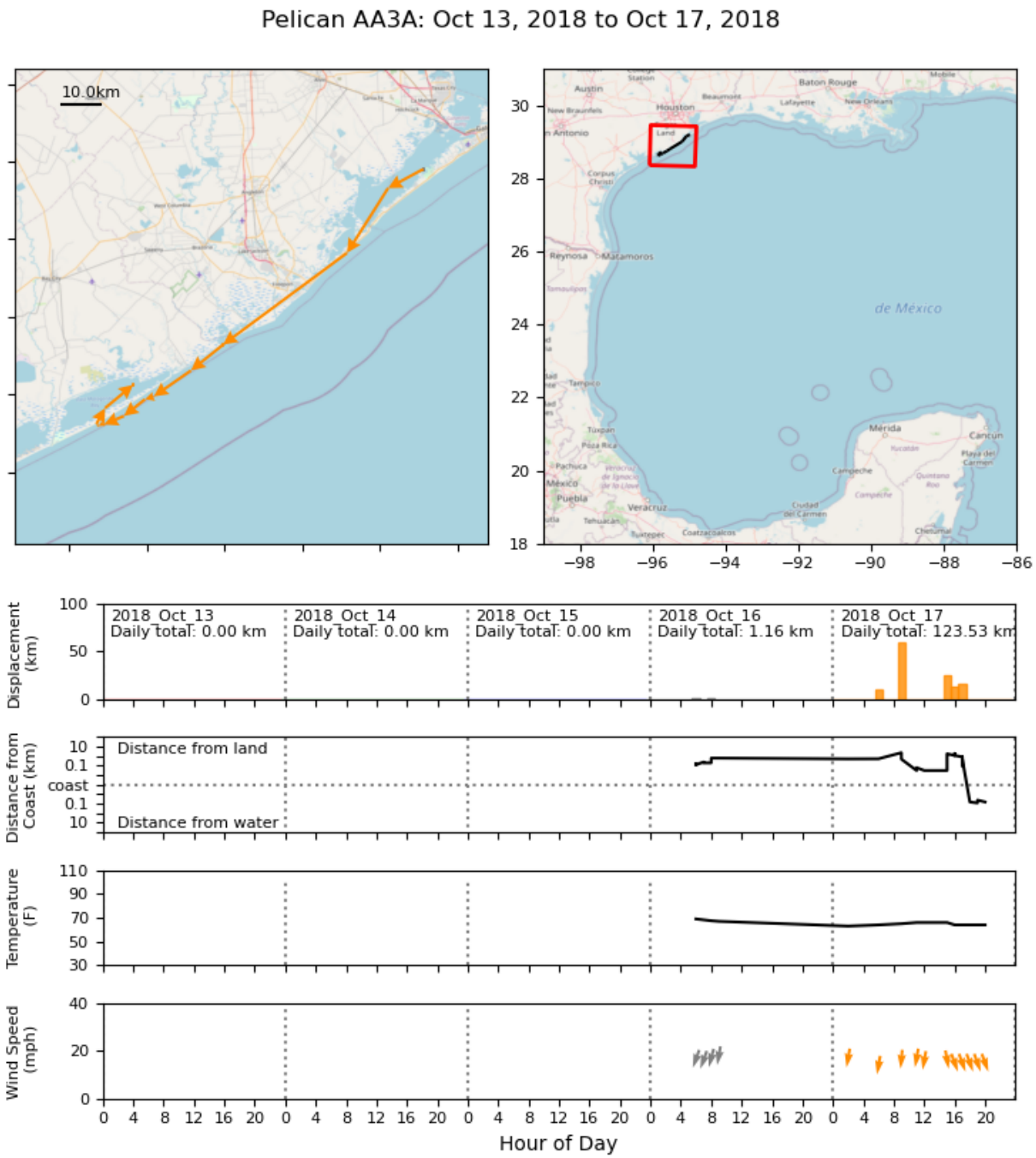

Figure 693 - Maps and graphs showing movements of AA3A between 2018-10-13 and 2018-10-16 inclusive.

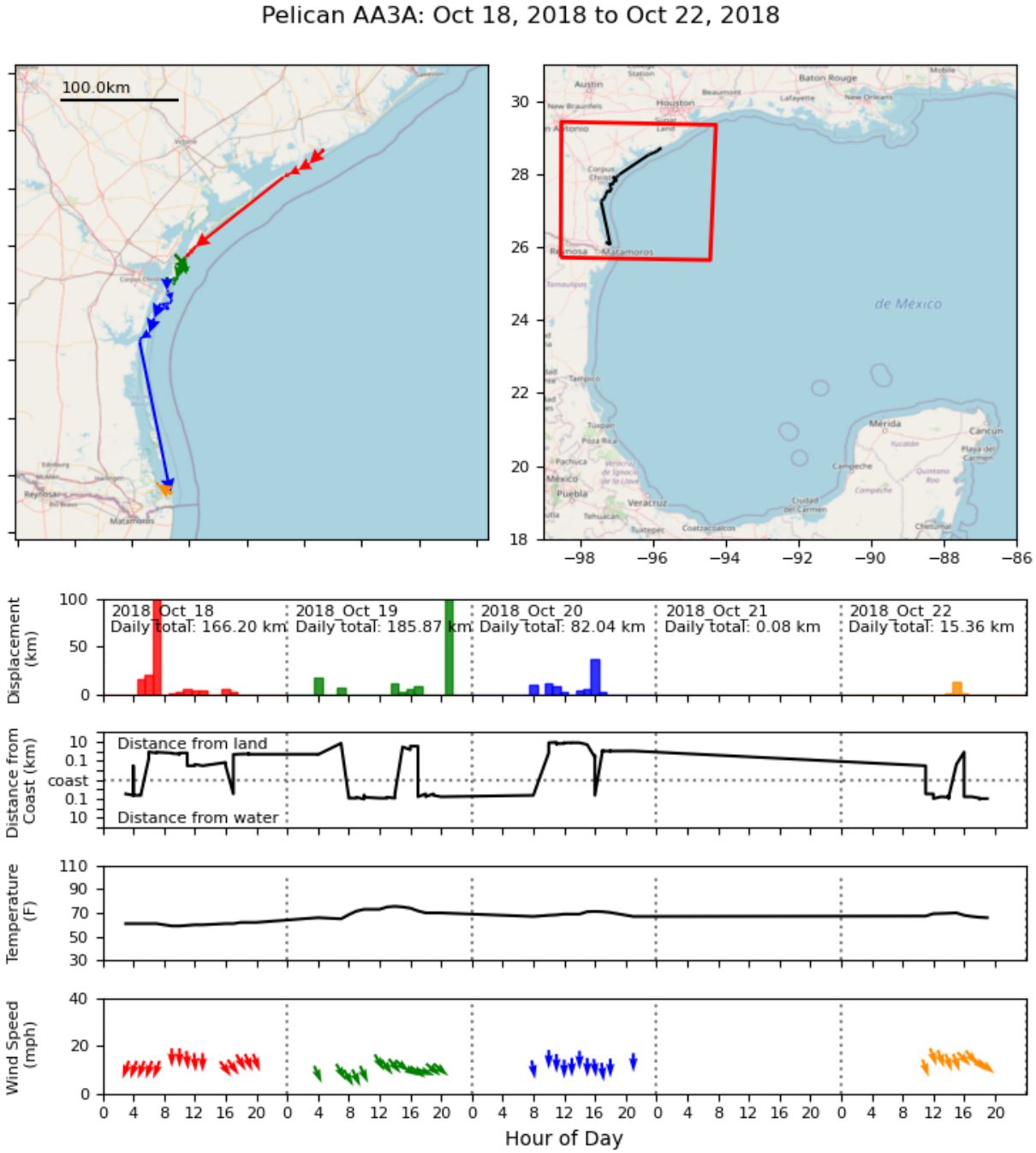

Figure 694 - Maps and graphs showing movements of AA3A between 2018-10-18 and 2018-10-21 inclusive.

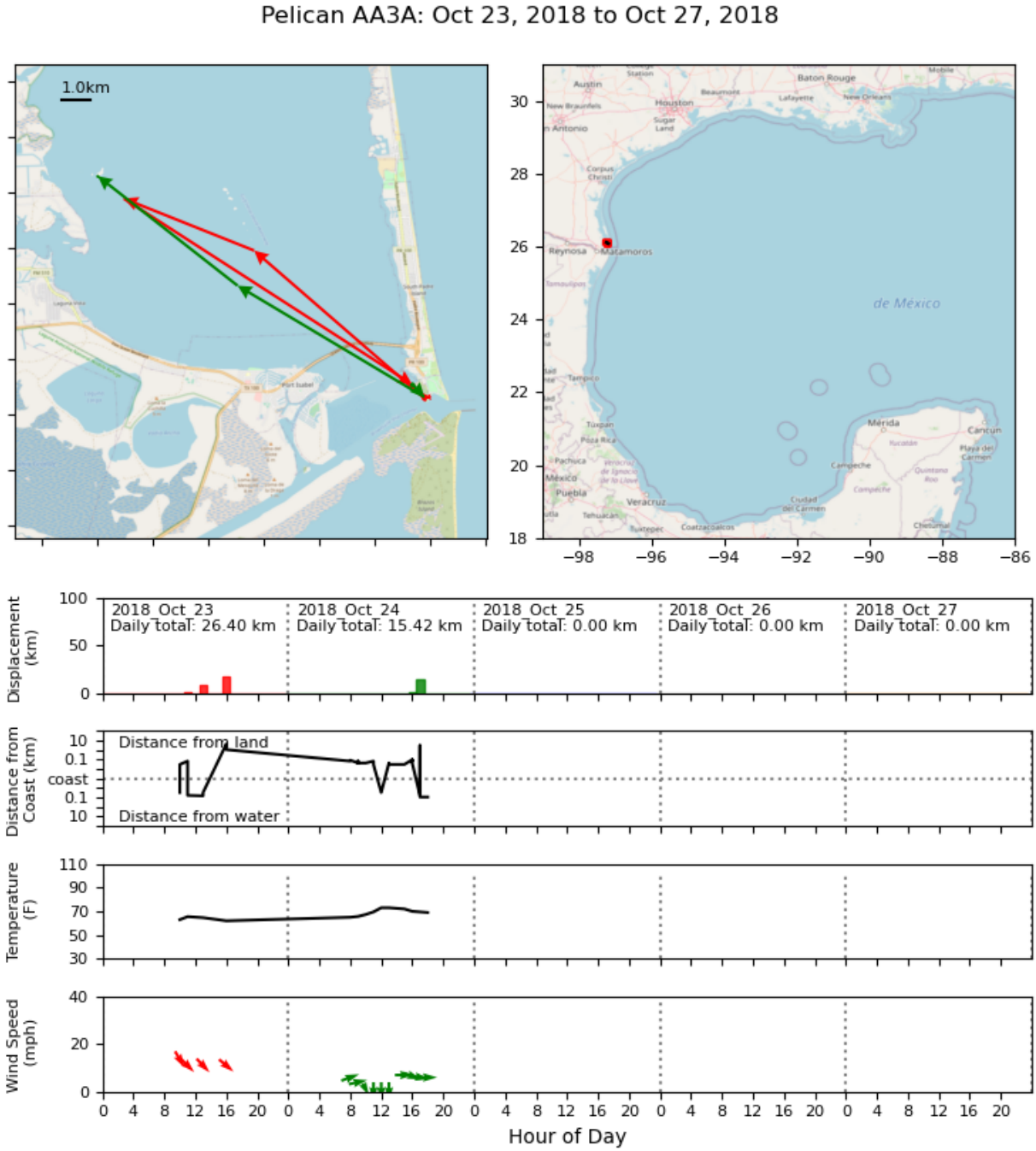

Figure 695 - Maps and graphs showing movements of AA3A between 2018-10-23 and 2018-10-26 inclusive.

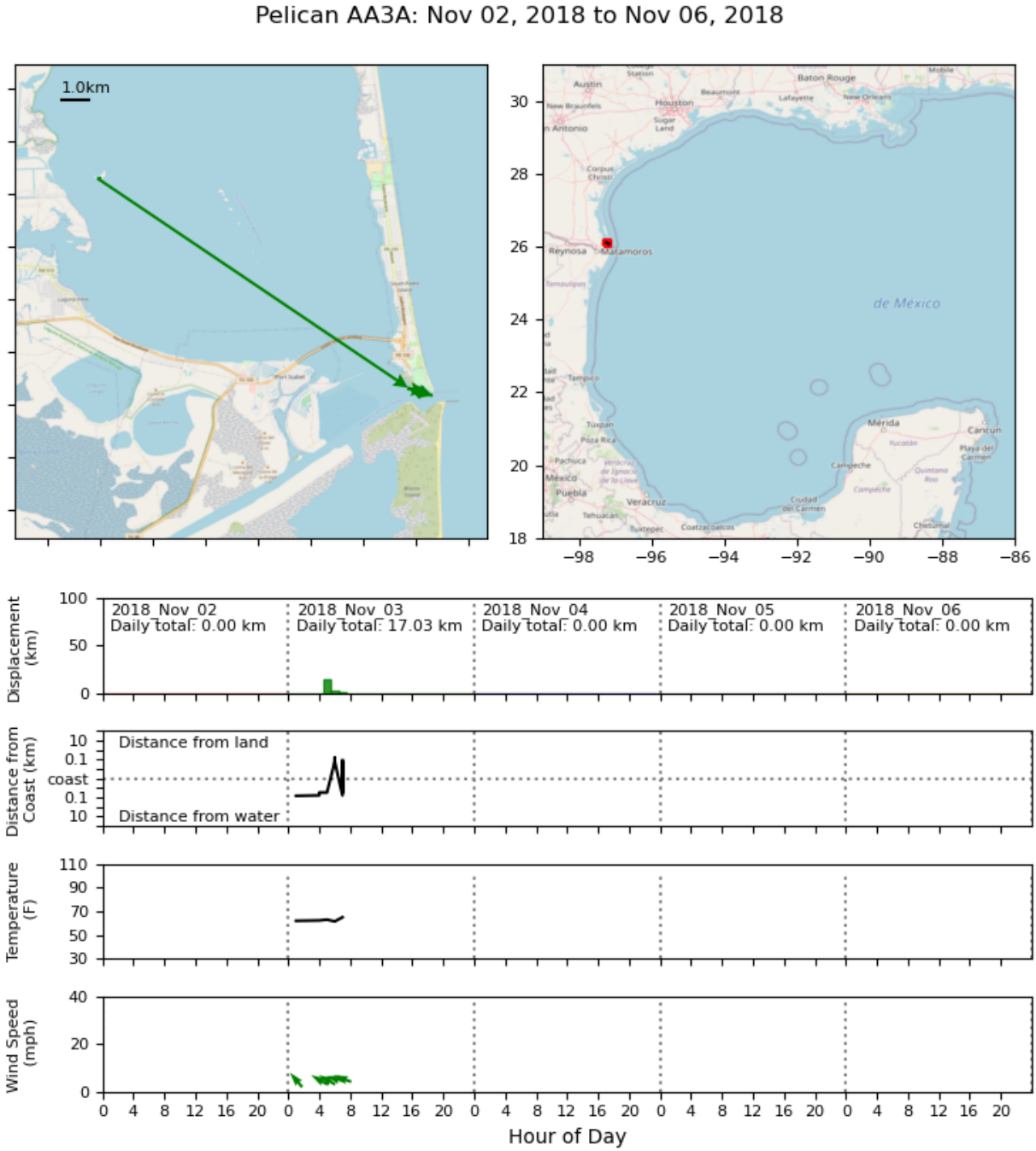

Figure 696 - Maps and graphs showing movements of AA3A between 2018-11-02 and 2018-11-05 inclusive.

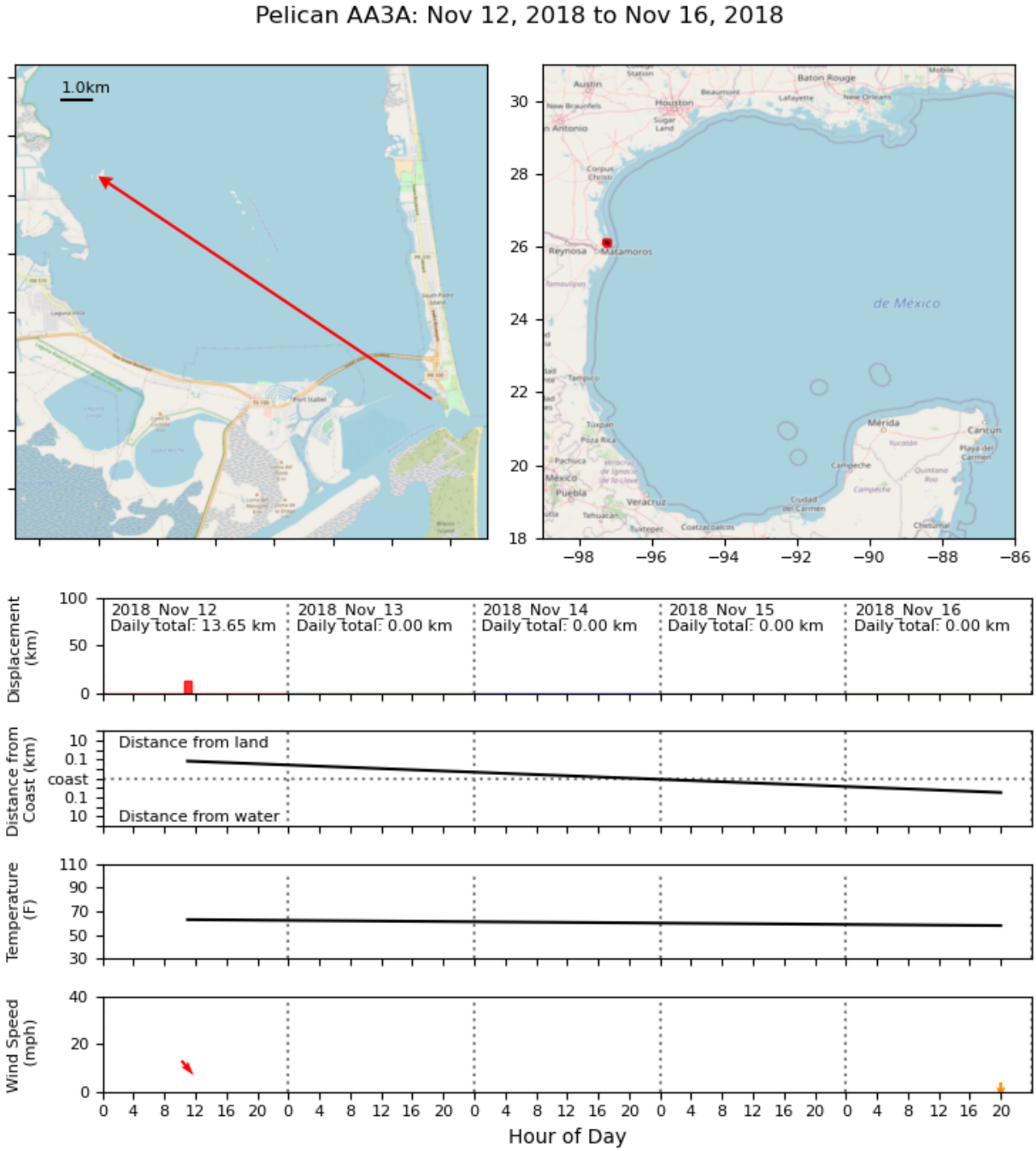

Figure 697 - Maps and graphs showing movements of AA3A between 2018-11-12 and 2018-11-15 inclusive.

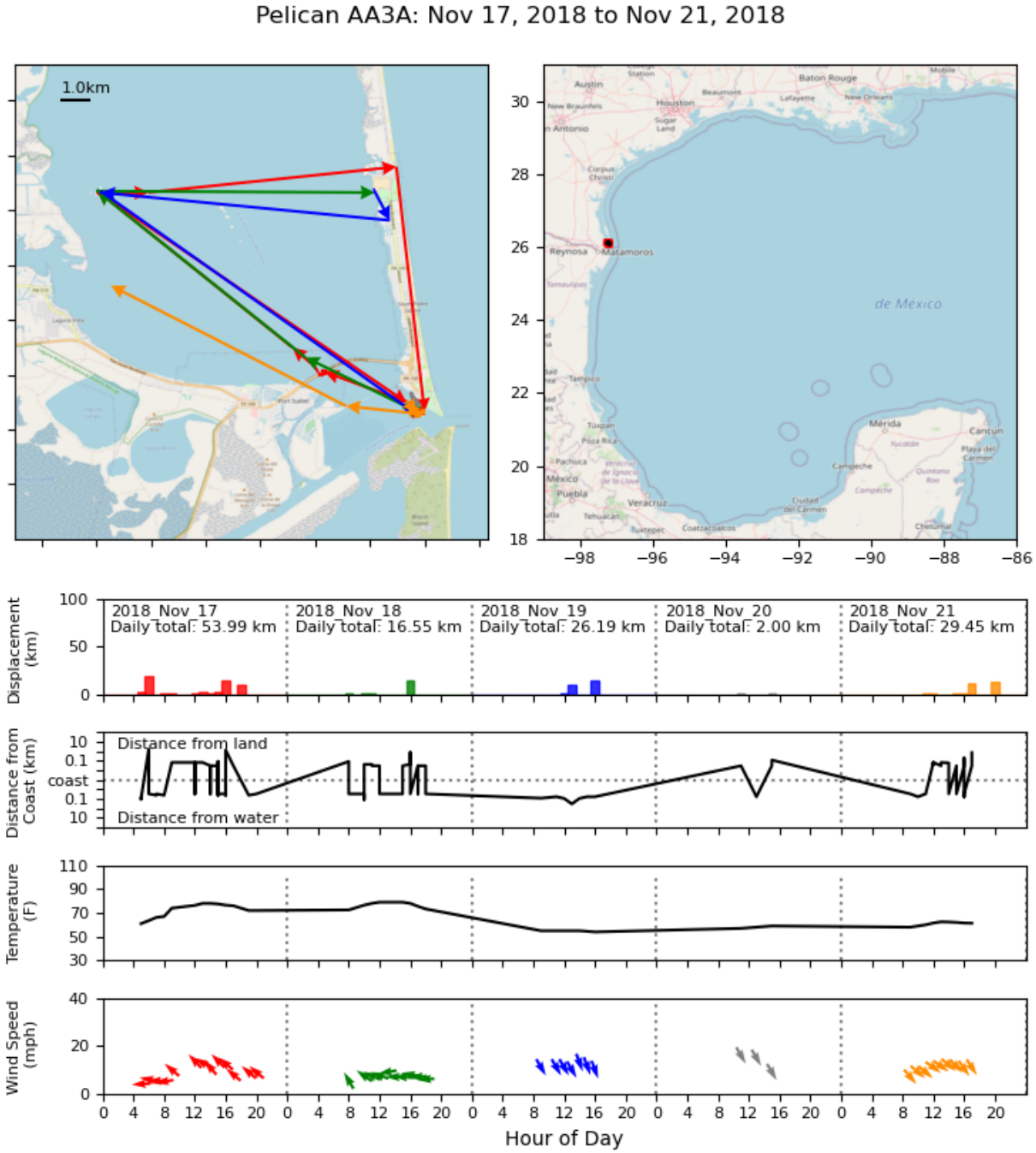

Figure 698 - Maps and graphs showing movements of AA3A between 2018-11-17 and 2018-11-20 inclusive.

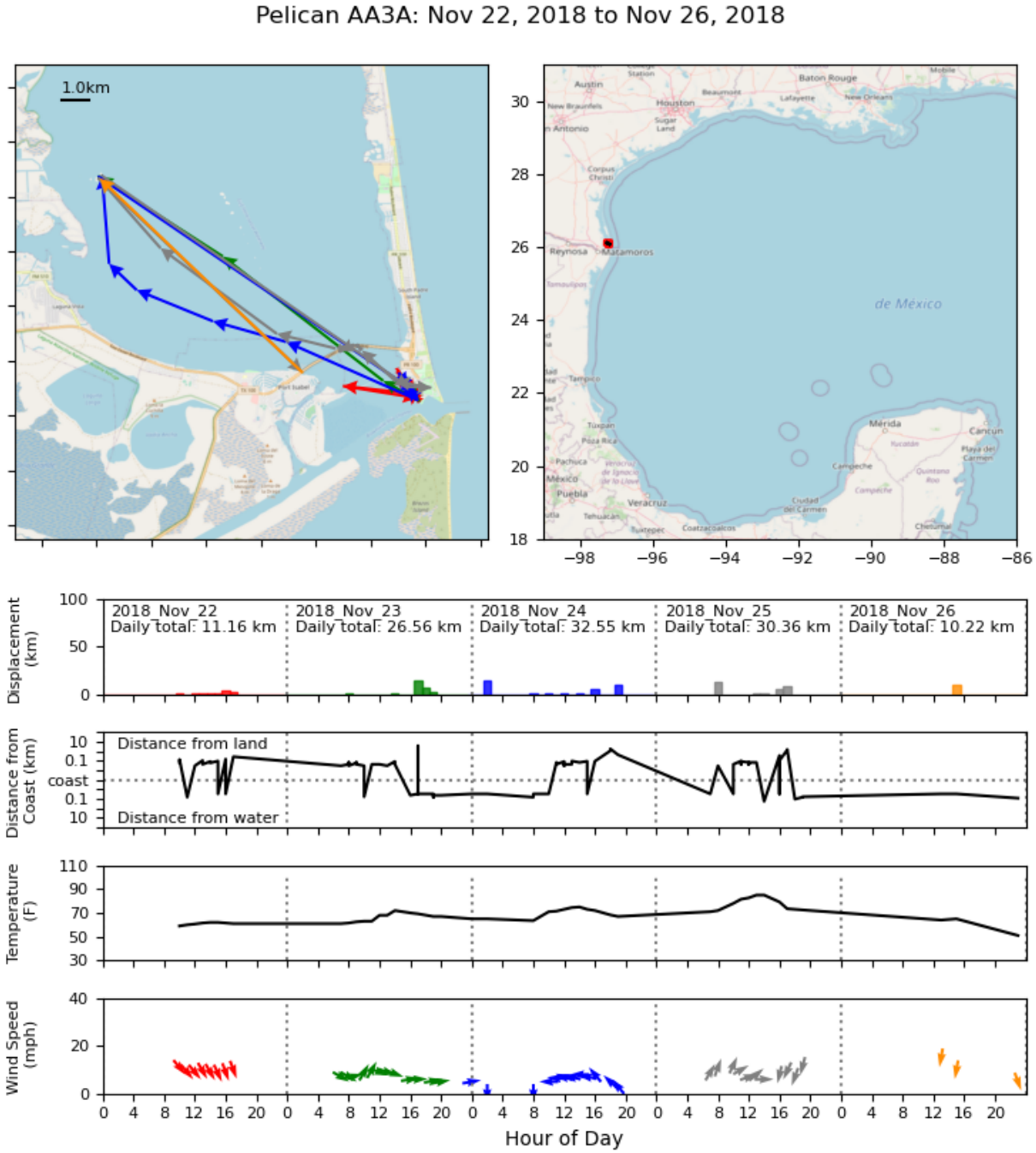

Figure 699 - Maps and graphs showing movements of AA3A between 2018-11-22 and 2018-11-25 inclusive.

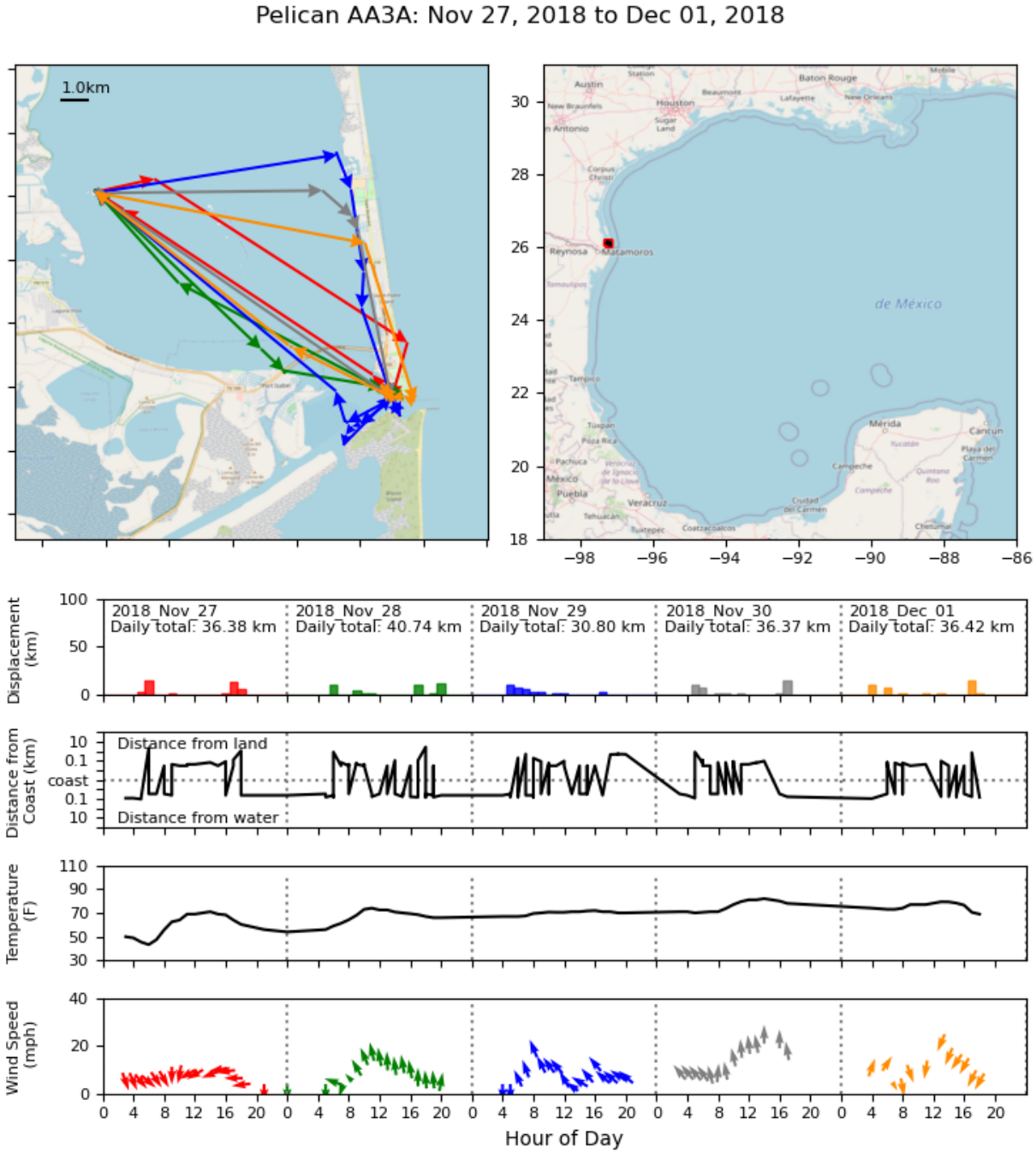

Figure 700 - Maps and graphs showing movements of AA3A between 2018-11-27 and 2018-11-30 inclusive.

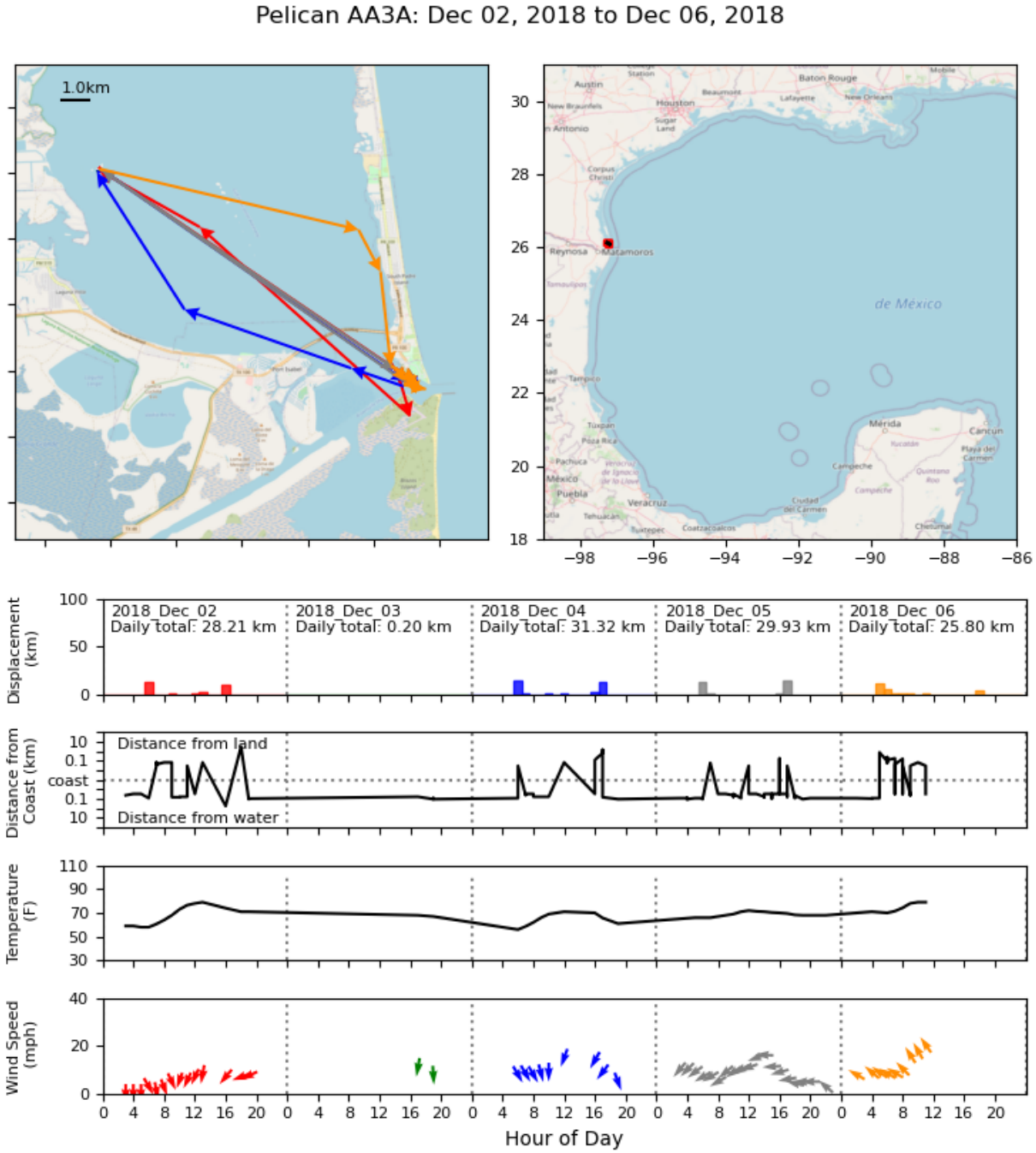

Figure 701 - Maps and graphs showing movements of AA3A between 2018-12-02 and 2018-12-05 inclusive.

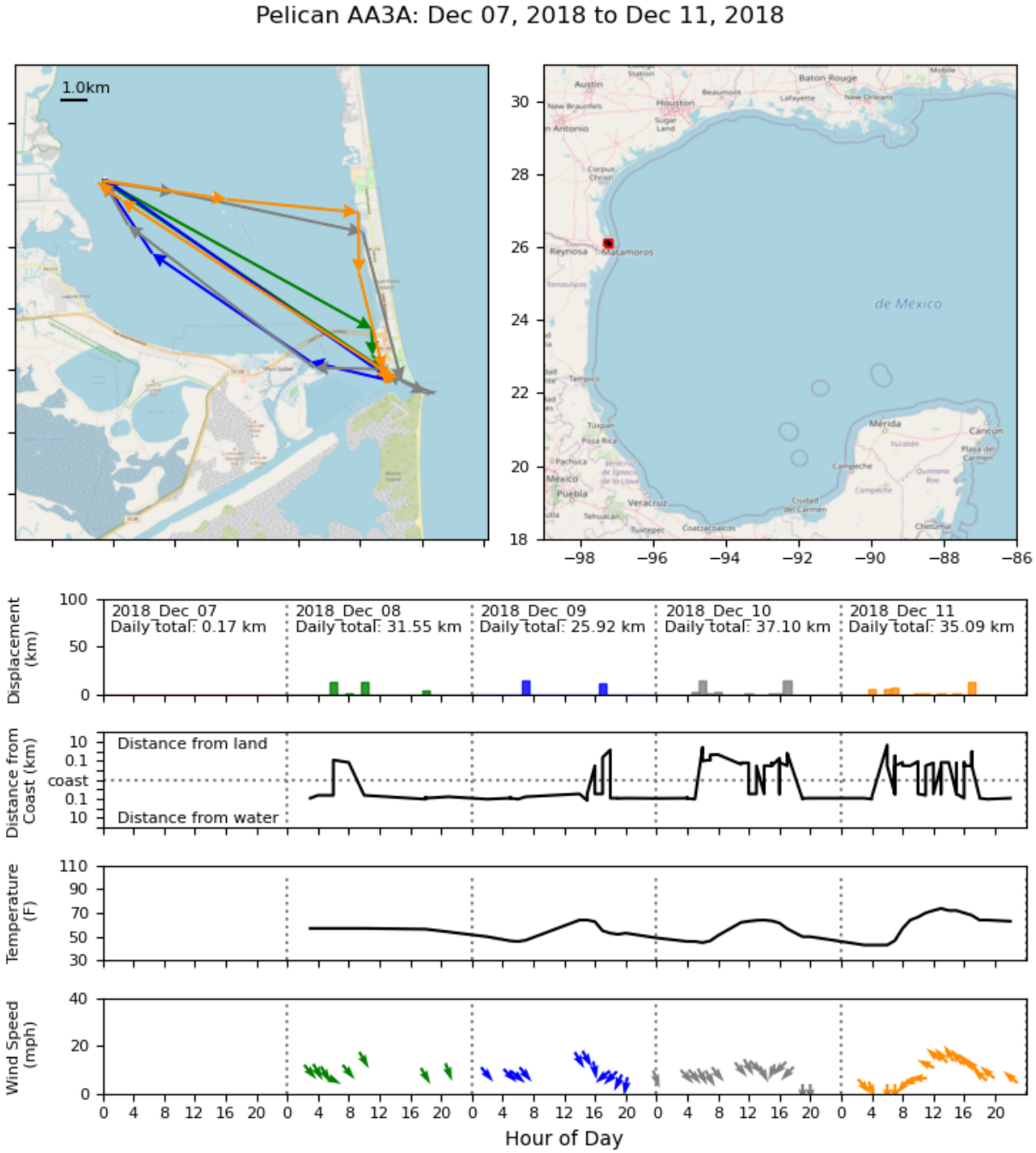

Figure 702 - Maps and graphs showing movements of AA3A between 2018-12-07 and 2018-12-10 inclusive.

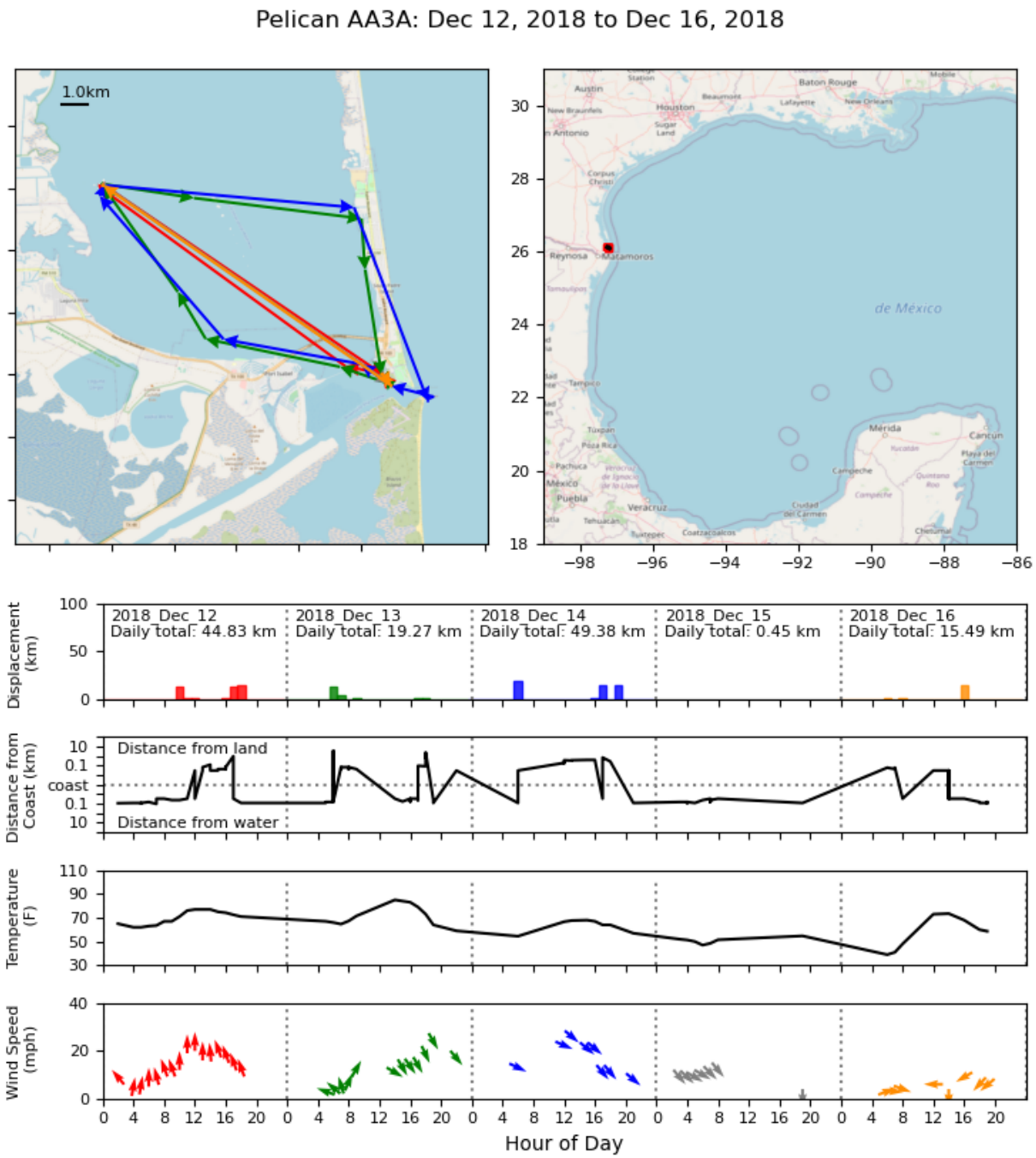

Figure 703 - Maps and graphs showing movements of AA3A between 2018-12-12 and 2018-12-15 inclusive.

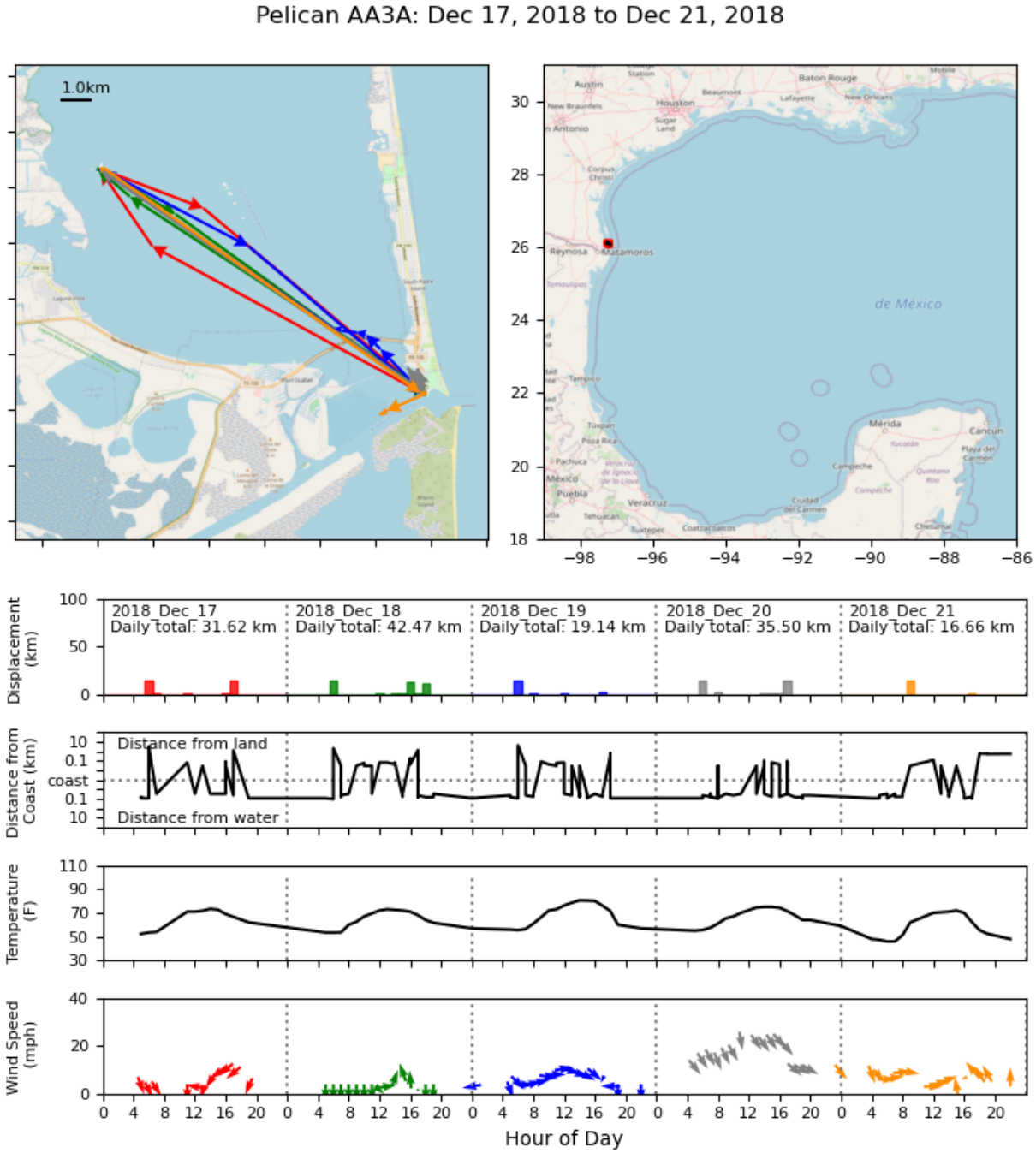

Figure 704 - Maps and graphs showing movements of AA3A between 2018-12-17 and 2018-12-20 inclusive.

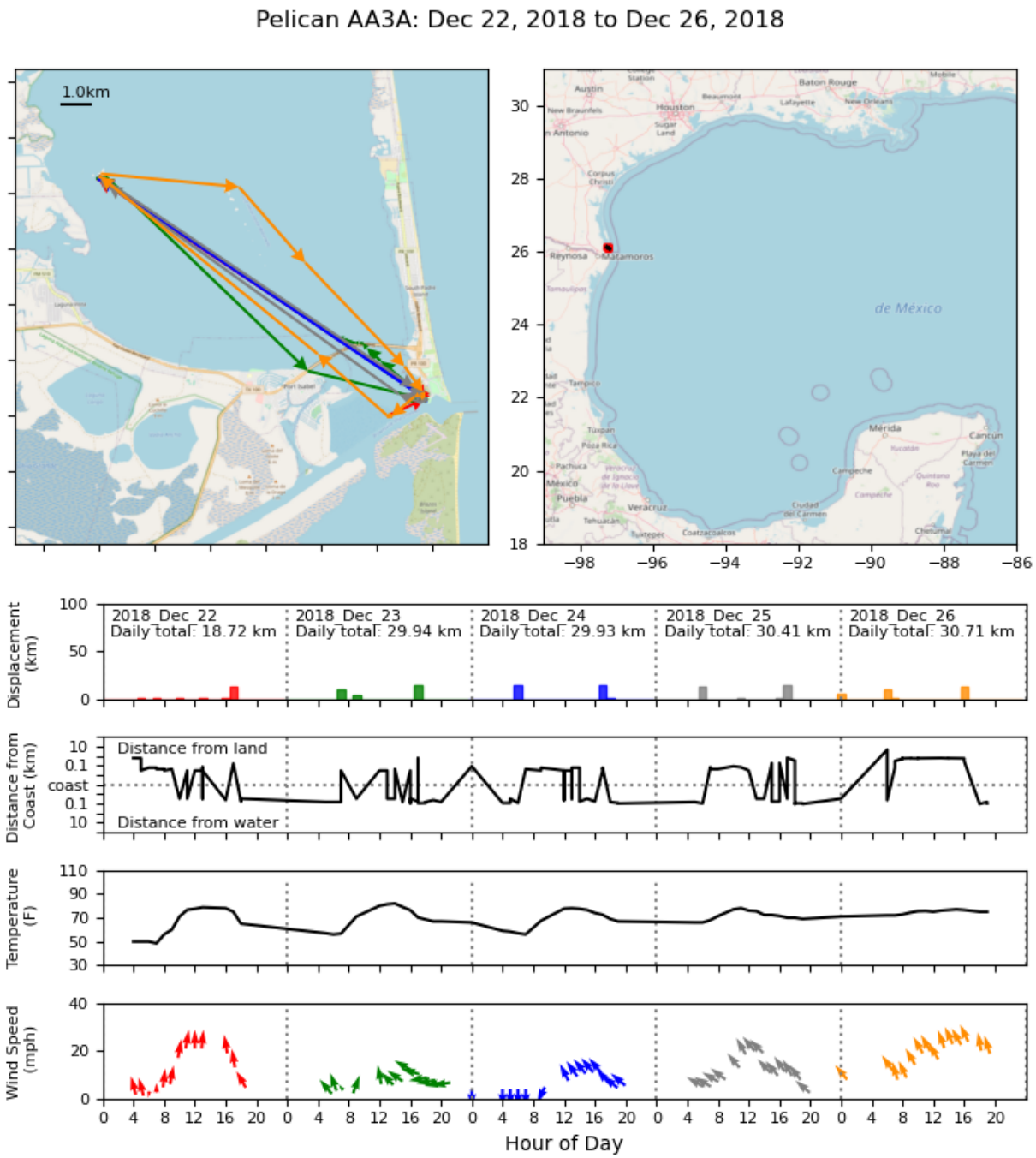

Figure 705 - Maps and graphs showing movements of AA3A between 2018-12-22 and 2018-12-25 inclusive.

Pelican F7A1A - Active from February 12, 2018 to April 21, 2018

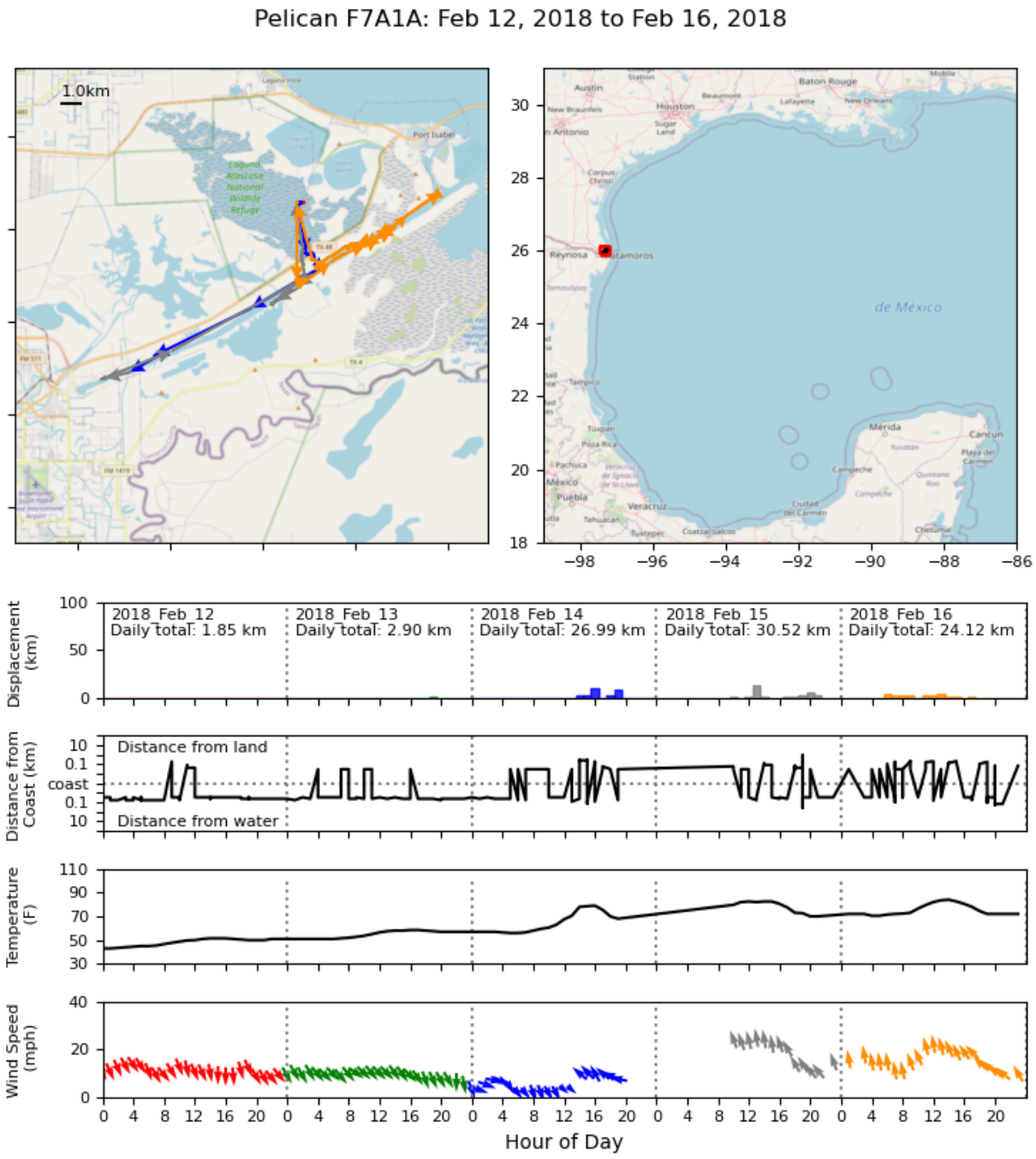

Figure 706 - Maps and graphs showing movements of F7A1A between 2018-02-12 and 2018-02-15 inclusive.

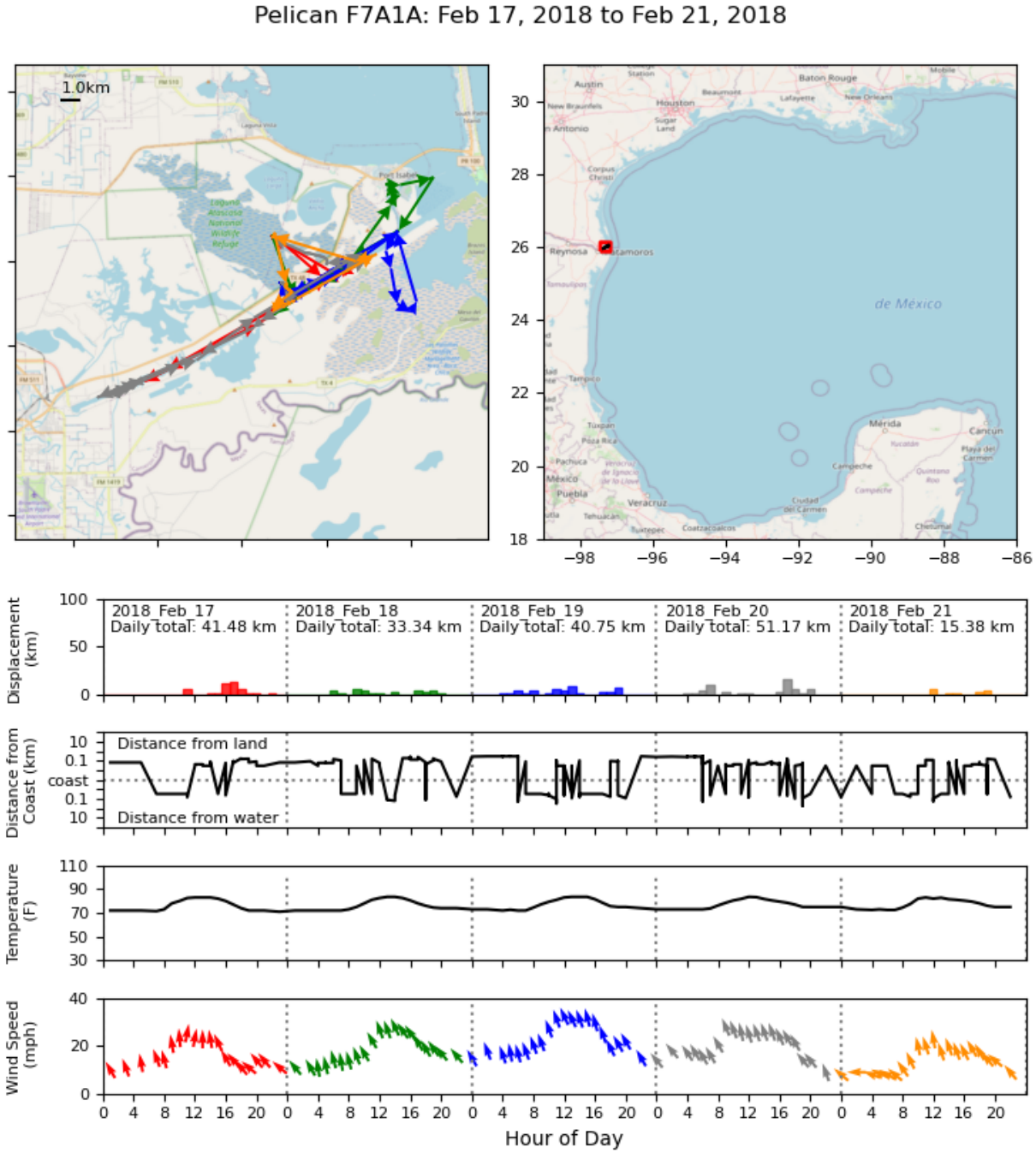

Figure 707 - Maps and graphs showing movements of F7A1A between 2018-02-17 and 2018-02-20 inclusive.

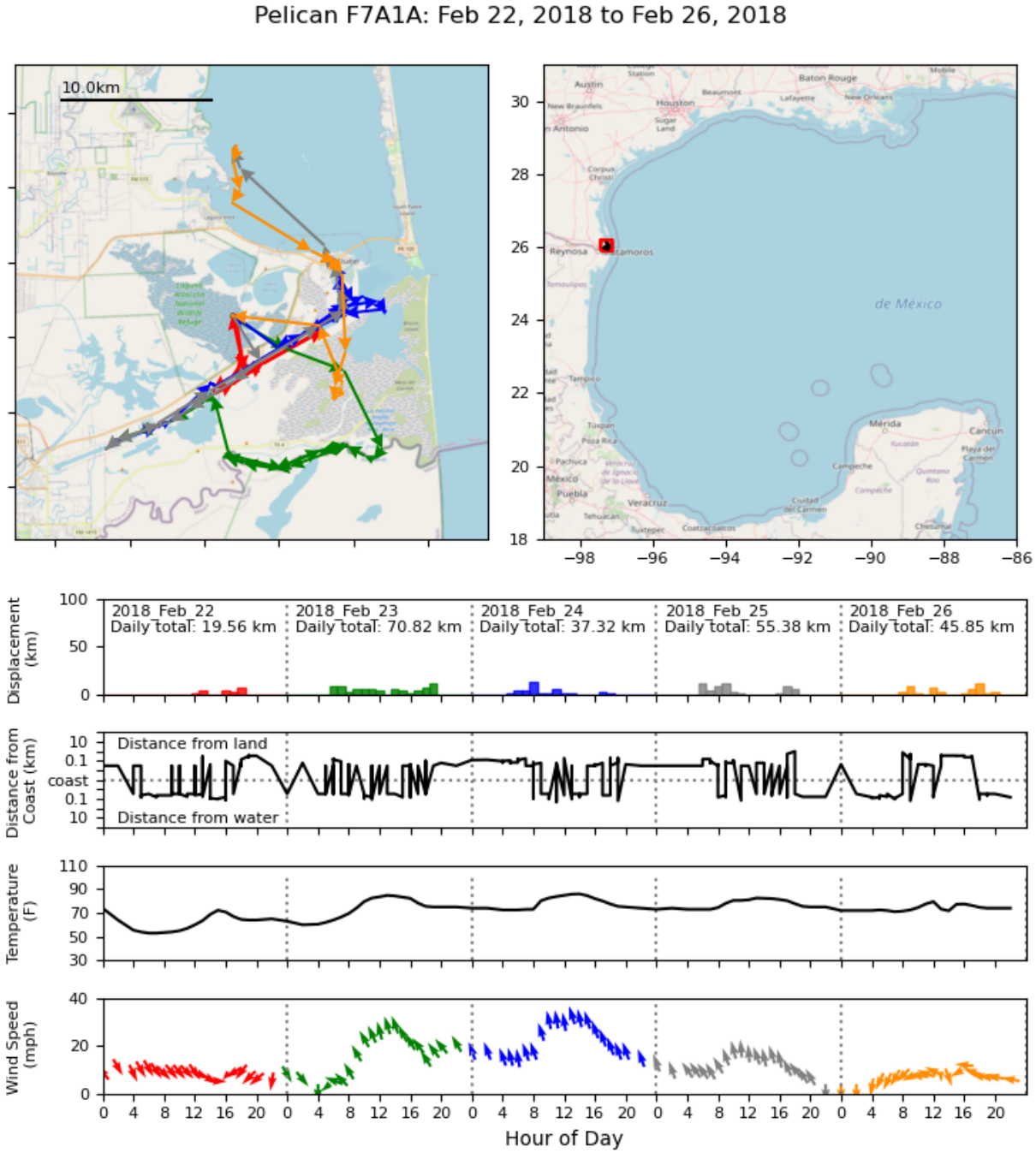

Figure 708 - Maps and graphs showing movements of F7A1A between 2018-02-22 and 2018-02-25 inclusive.

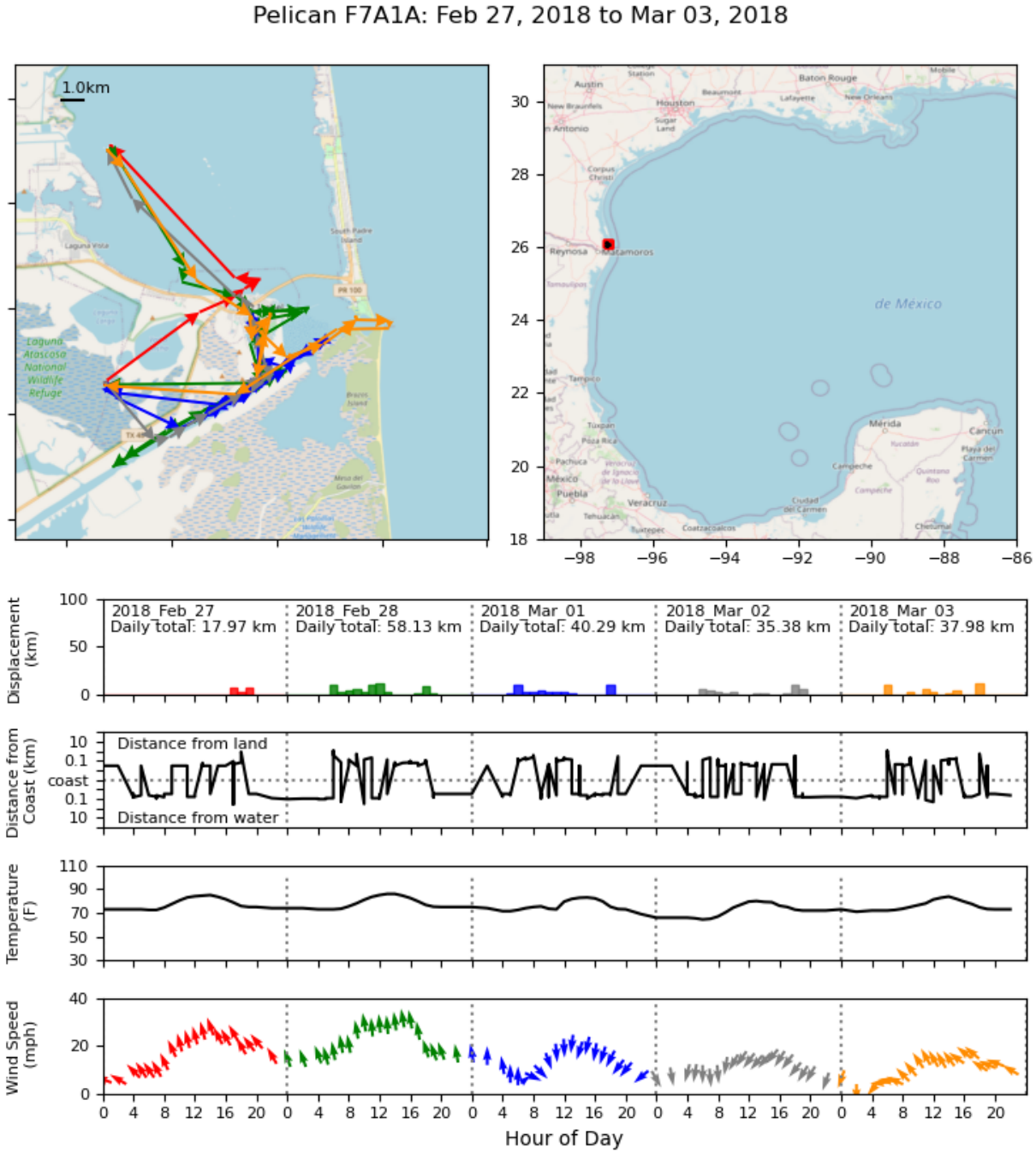

Figure 709 - Maps and graphs showing movements of F7A1A between 2018-02-27 and 2018-03-02 inclusive.

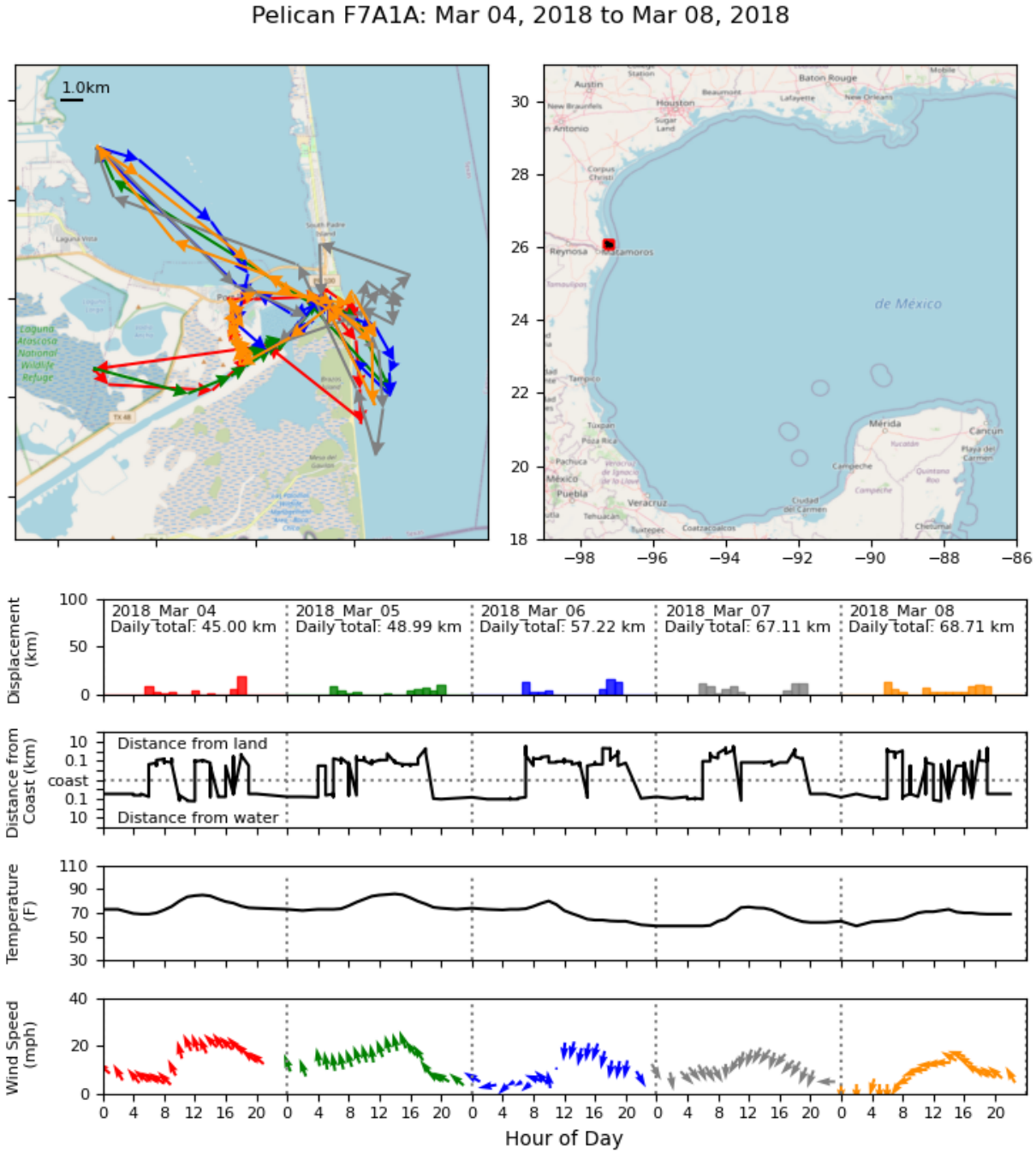

Figure 710 - Maps and graphs showing movements of F7A1A between 2018-03-04 and 2018-03-07 inclusive.

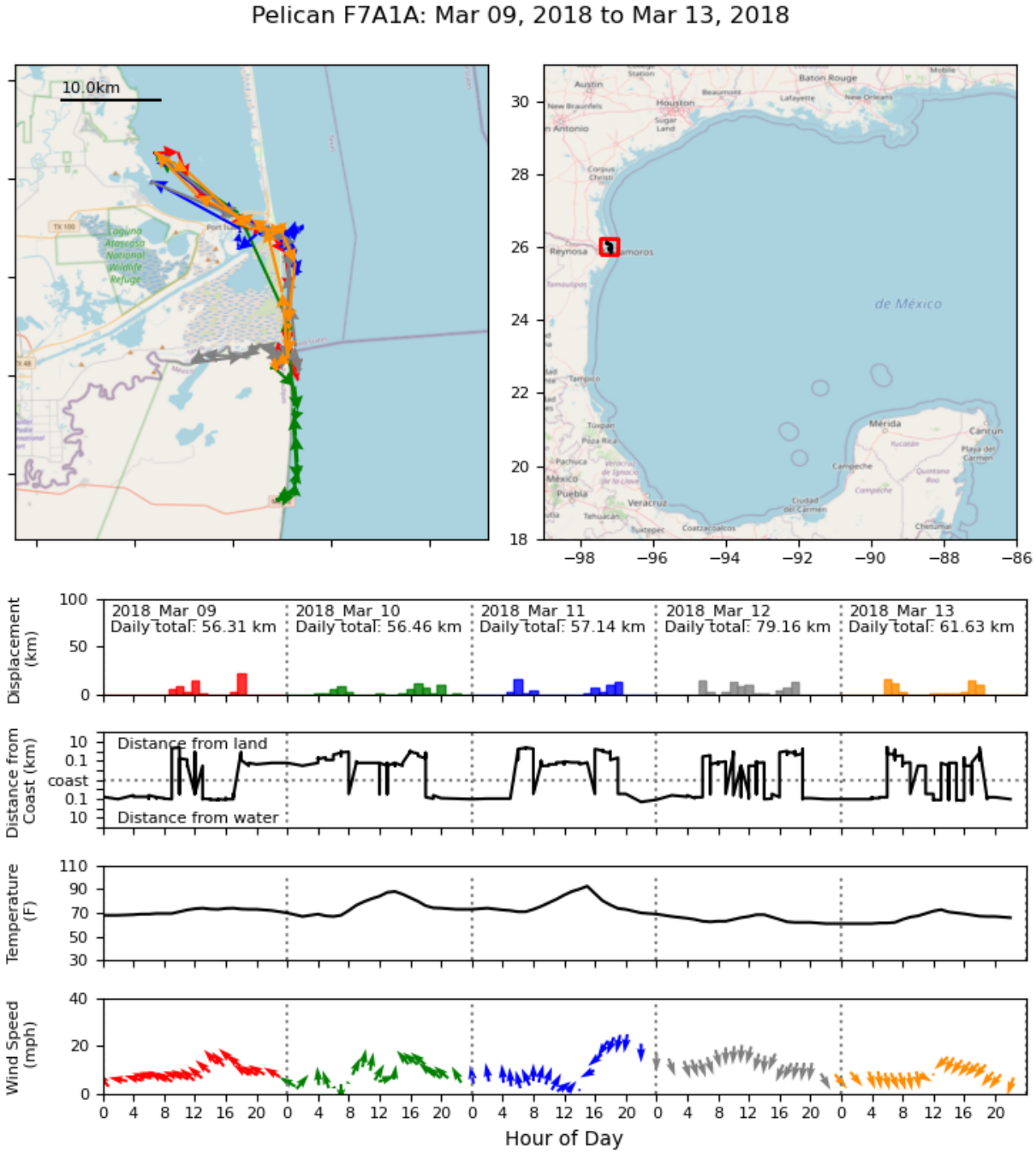

Figure 711 - Maps and graphs showing movements of F7A1A between 2018-03-09 and 2018-03-12 inclusive.

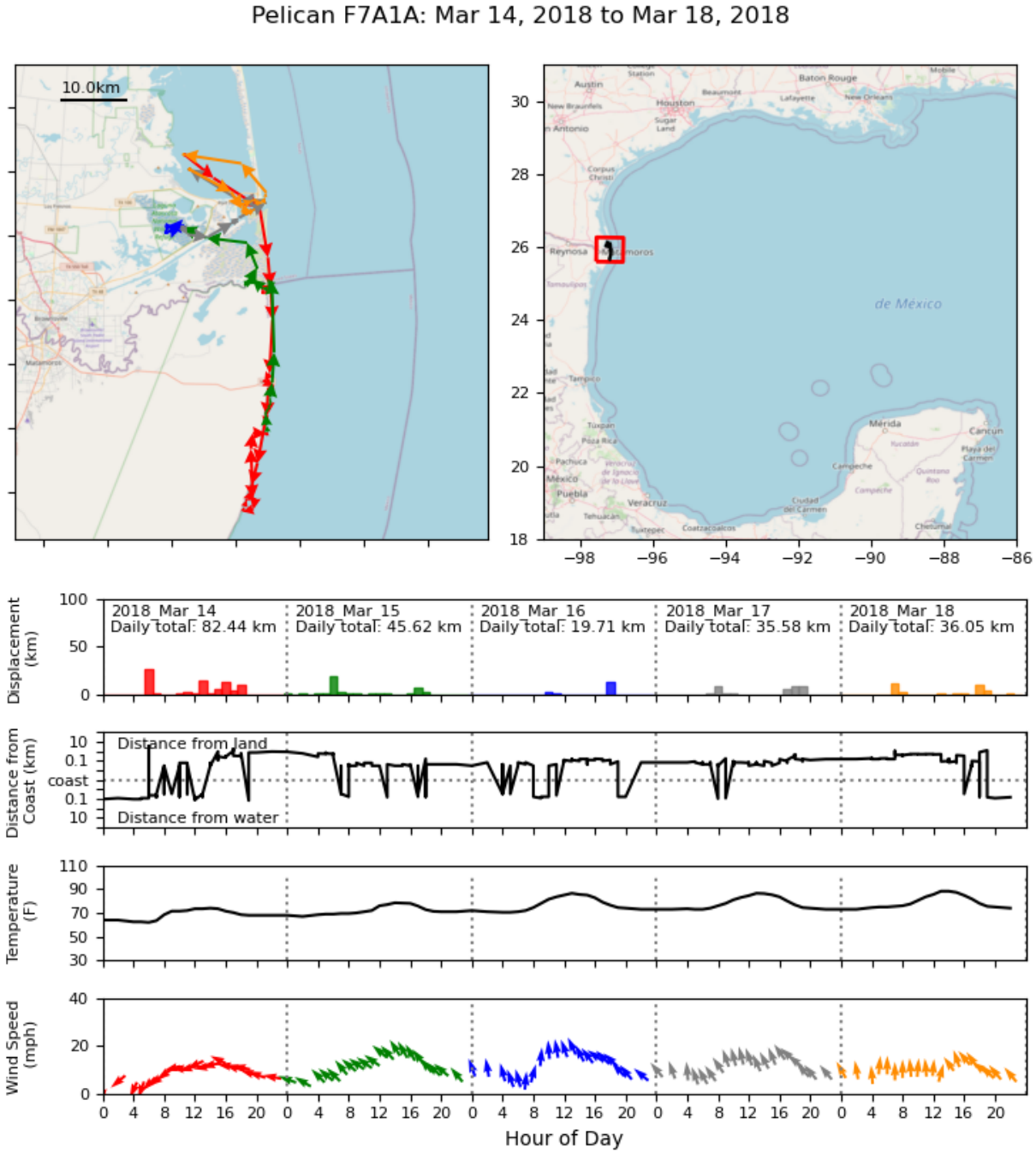

Figure 712 - Maps and graphs showing movements of F7A1A between 2018-03-14 and 2018-03-17 inclusive.

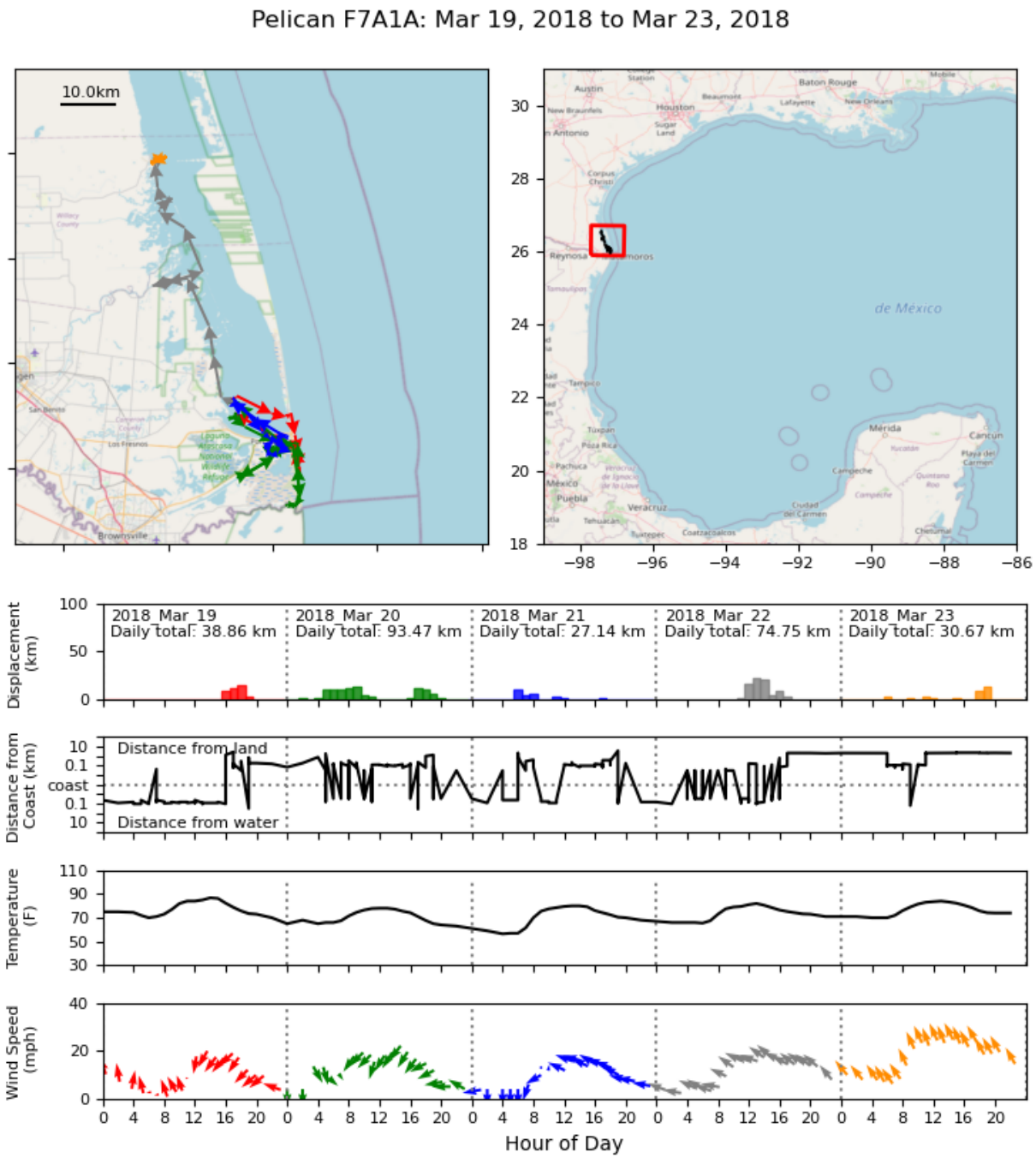

Figure 713 - Maps and graphs showing movements of F7A1A between 2018-03-19 and 2018-03-22 inclusive.

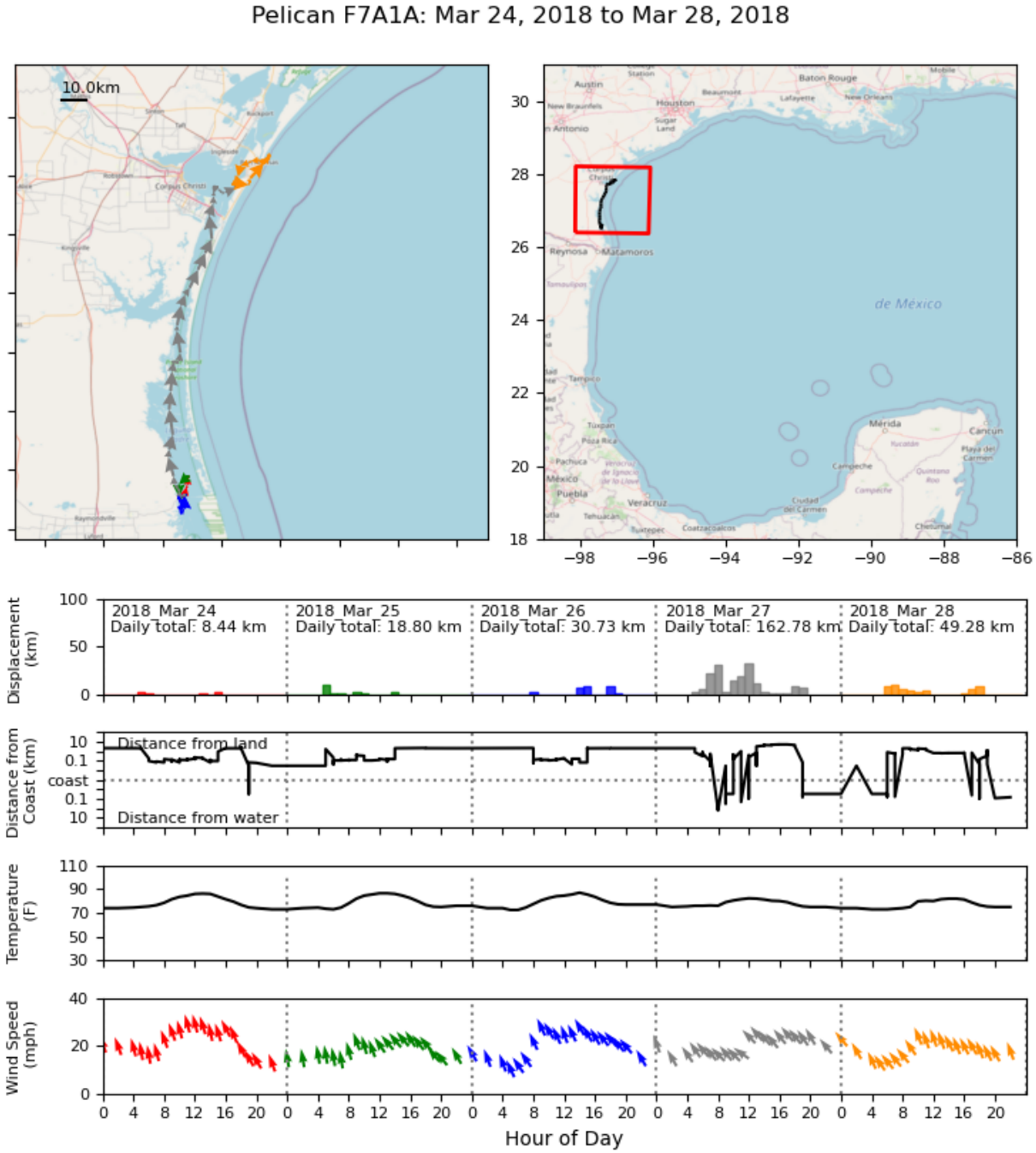

Figure 714 - Maps and graphs showing movements of F7A1A between 2018-03-24 and 2018-03-27 inclusive.

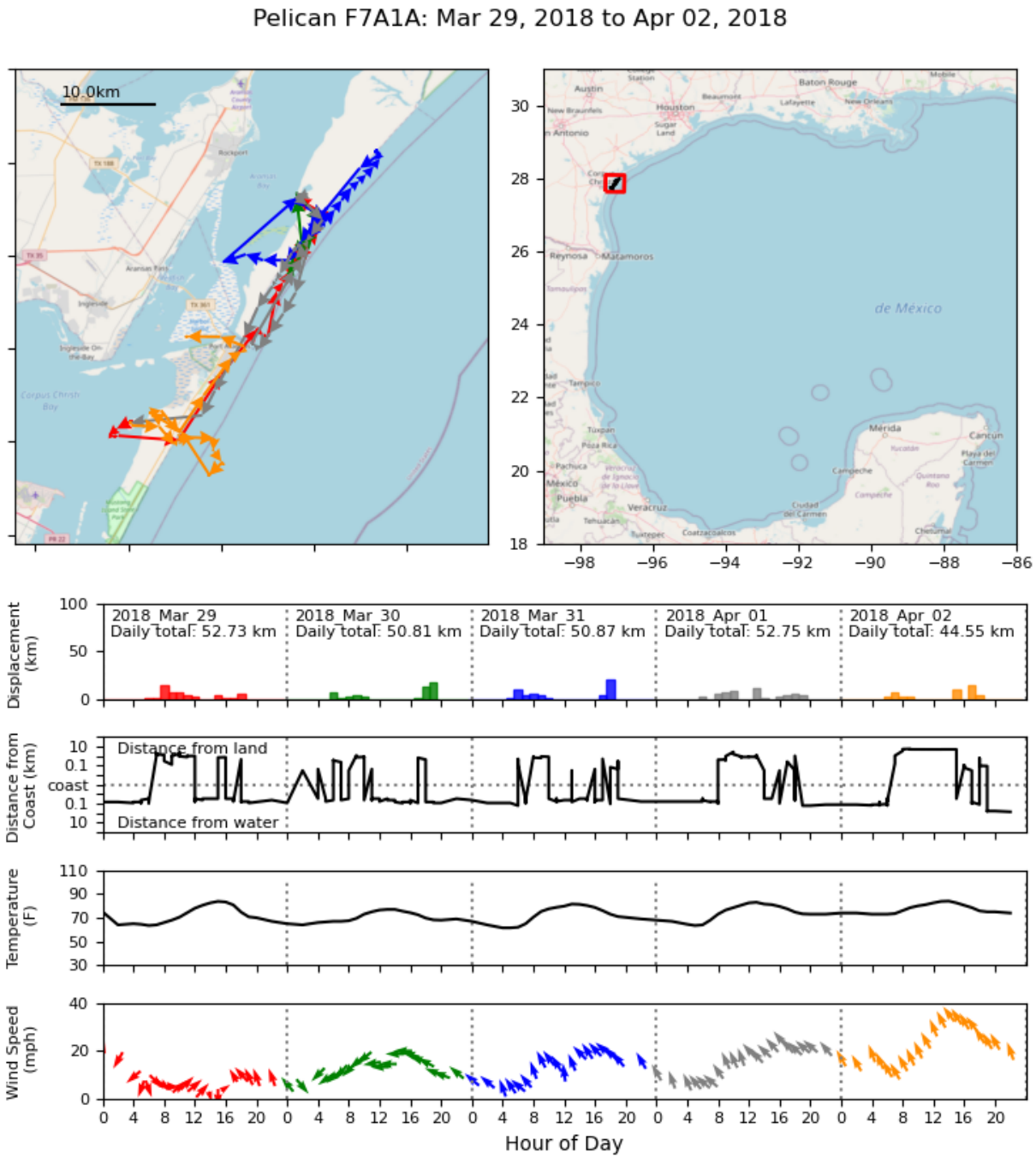

Figure 715 - Maps and graphs showing movements of F7A1A between 2018-03-29 and 2018-04-01 inclusive.

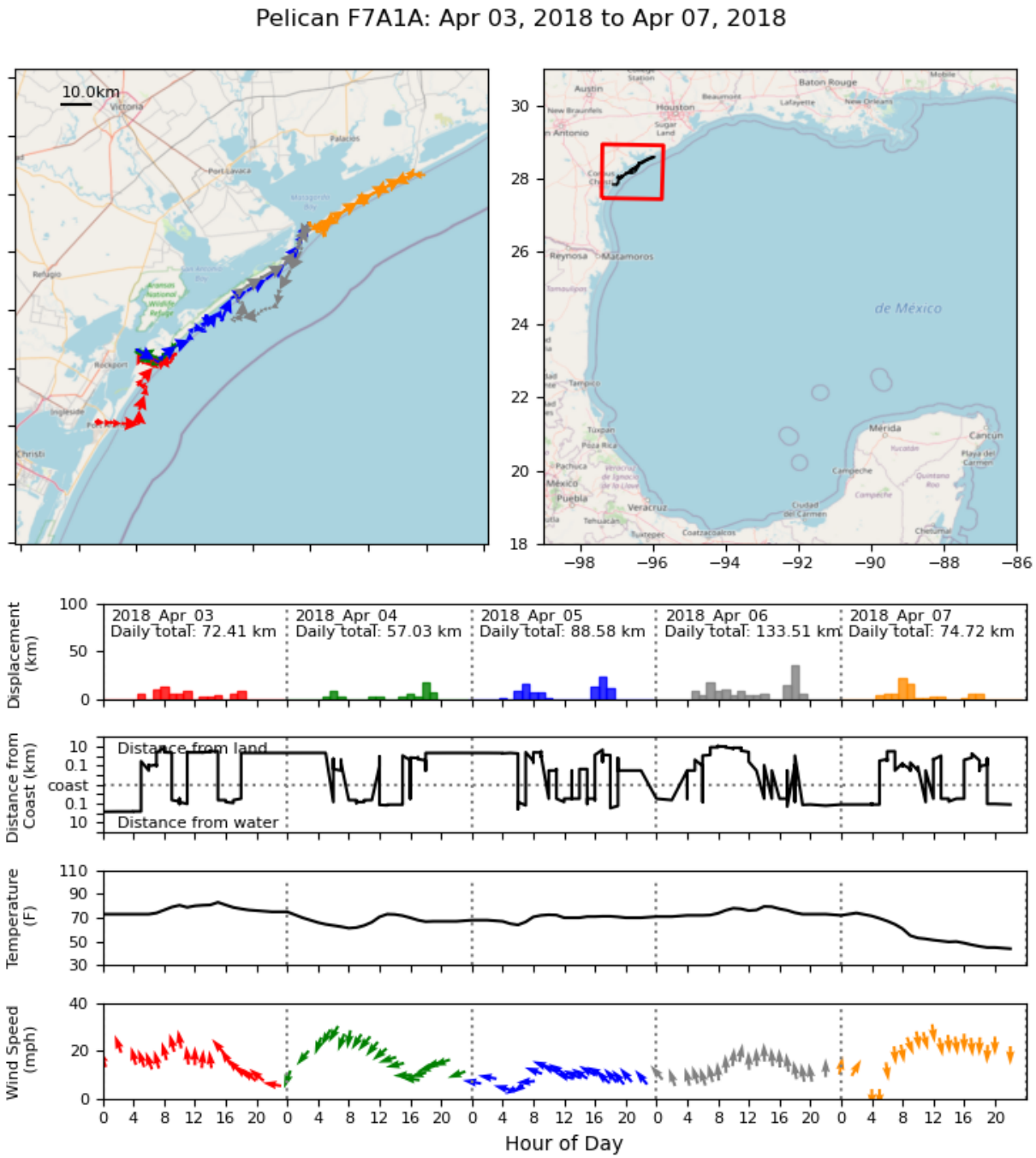

Figure 716 - Maps and graphs showing movements of F7A1A between 2018-04-03 and 2018-04-06 inclusive.

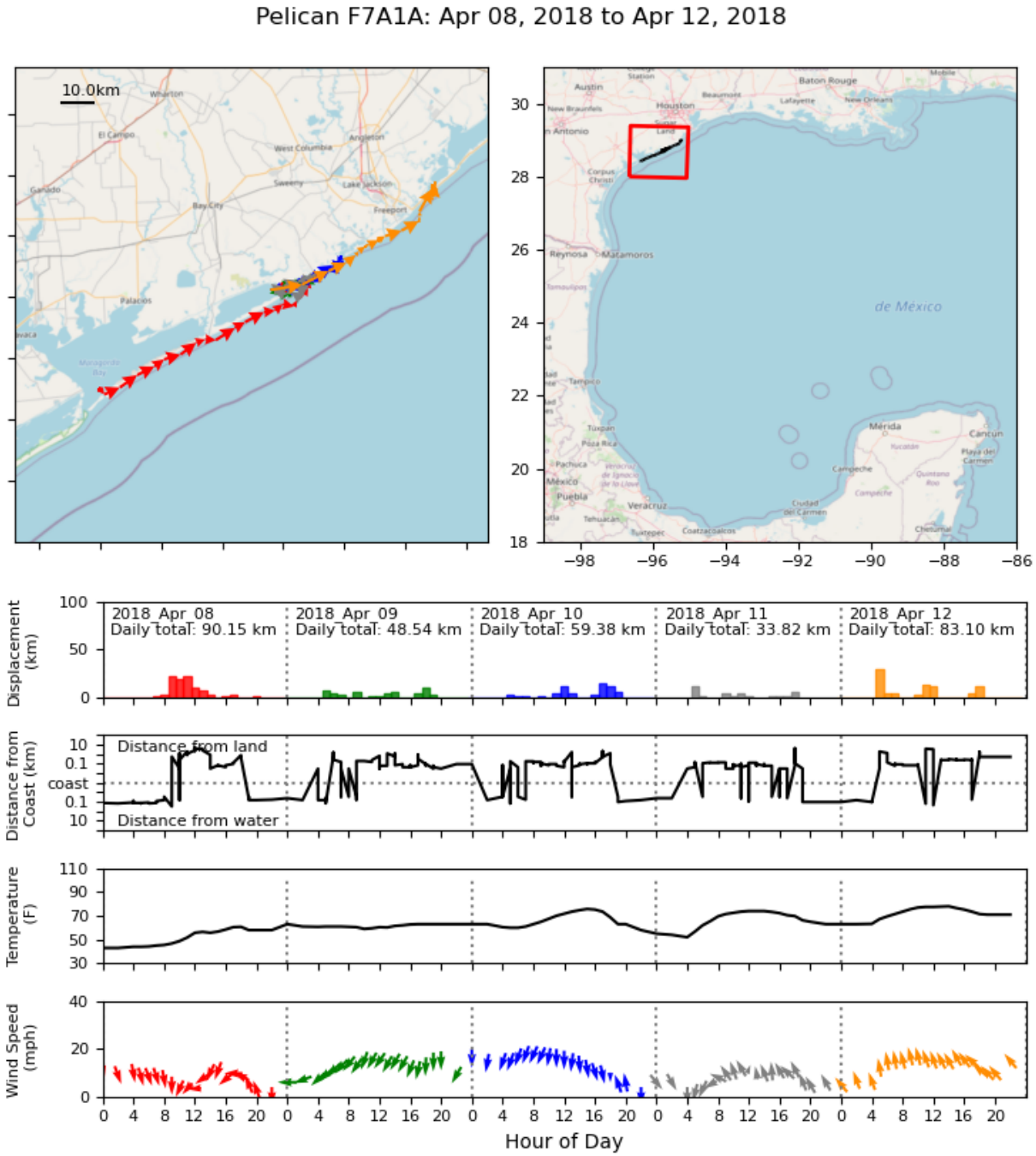

Figure 717 - Maps and graphs showing movements of F7A1A between 2018-04-08 and 2018-04-11 inclusive.

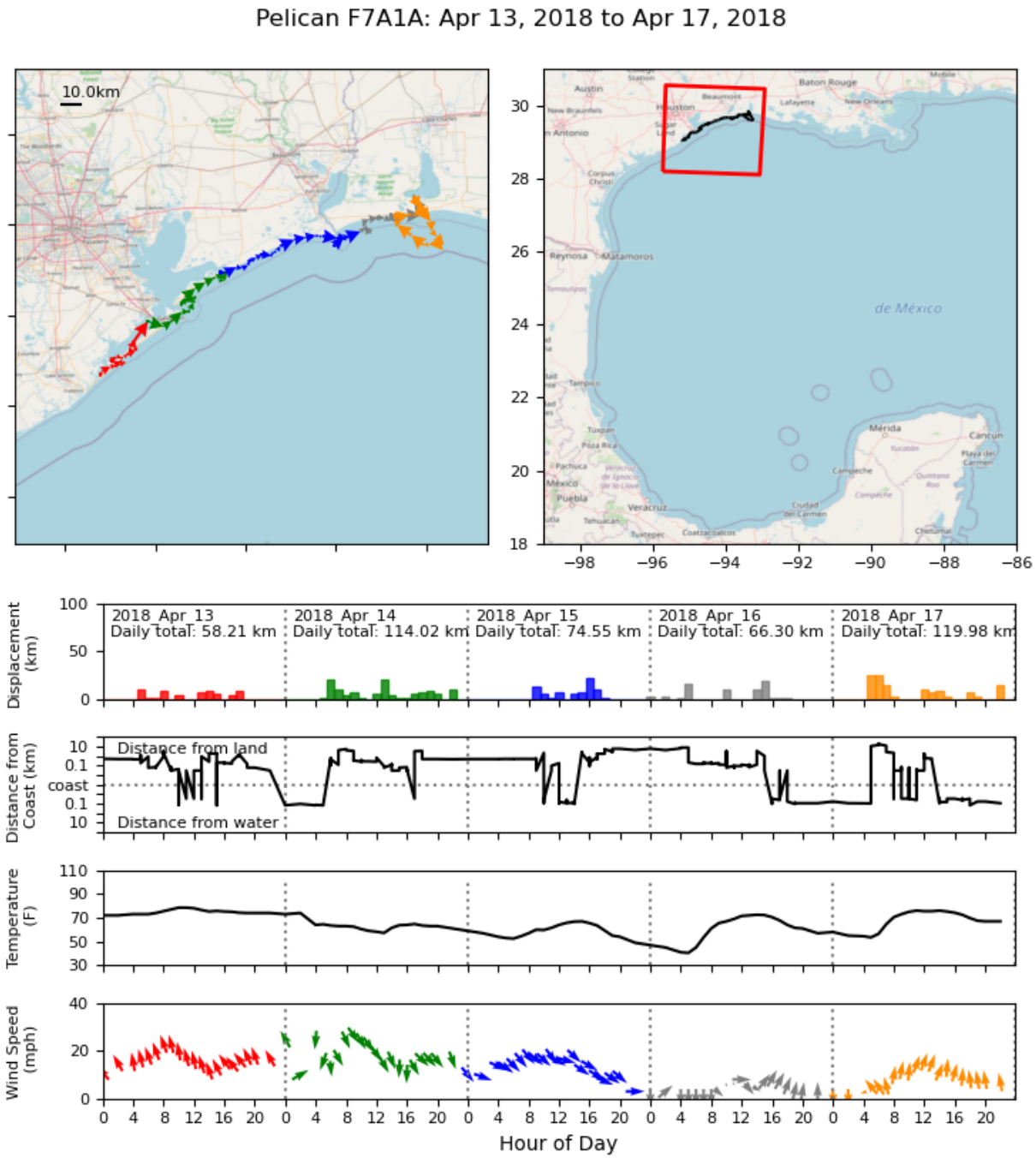

Figure 718 - Maps and graphs showing movements of F7A1A between 2018-04-13 and 2018-04-16 inclusive.

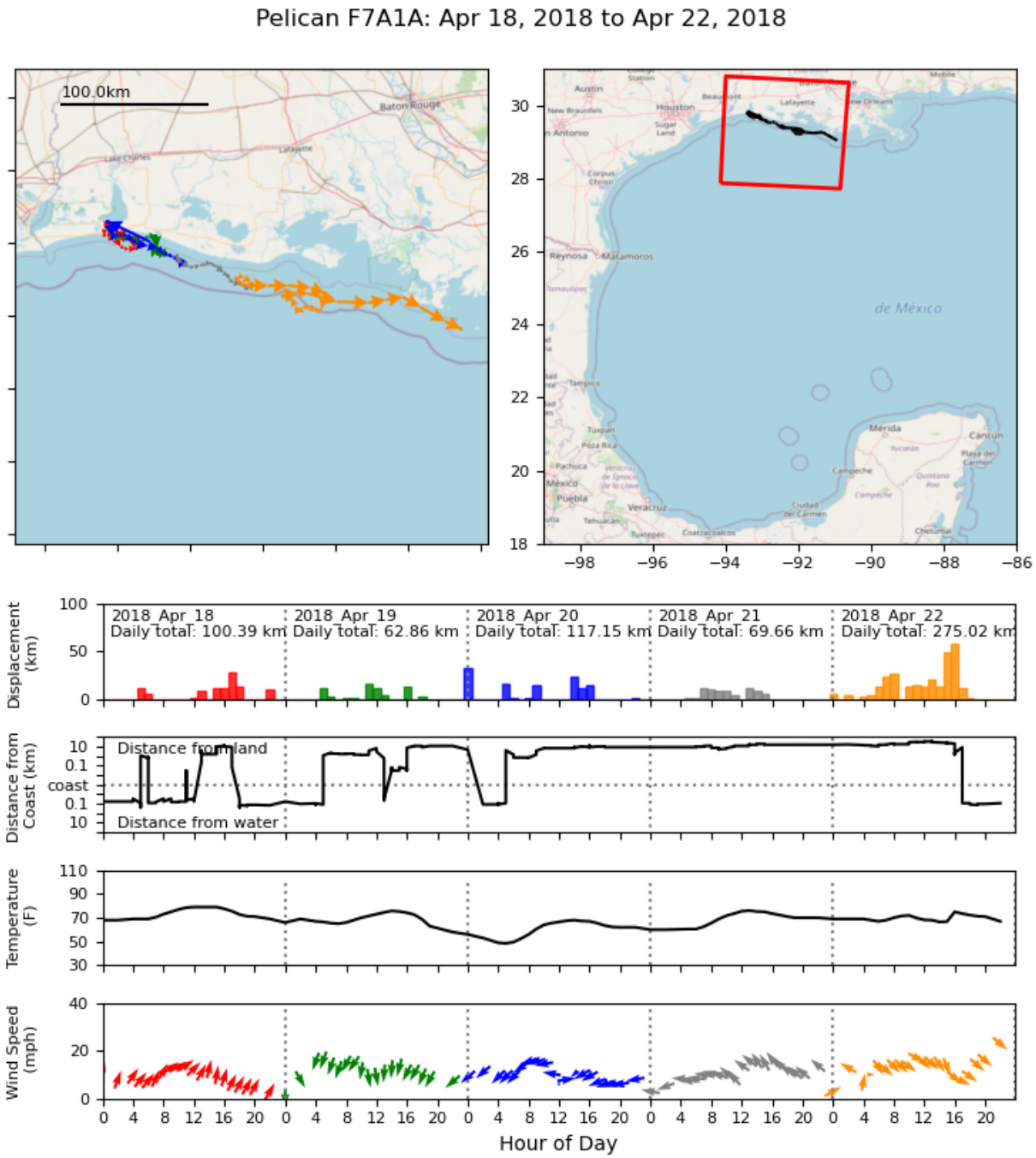

Figure 719 - Maps and graphs showing movements of F7A1A between 2018-04-18 and 2018-04-21 inclusive.

Pelican 0B3A7 - Active from February 22, 2018 to January 21, 2019

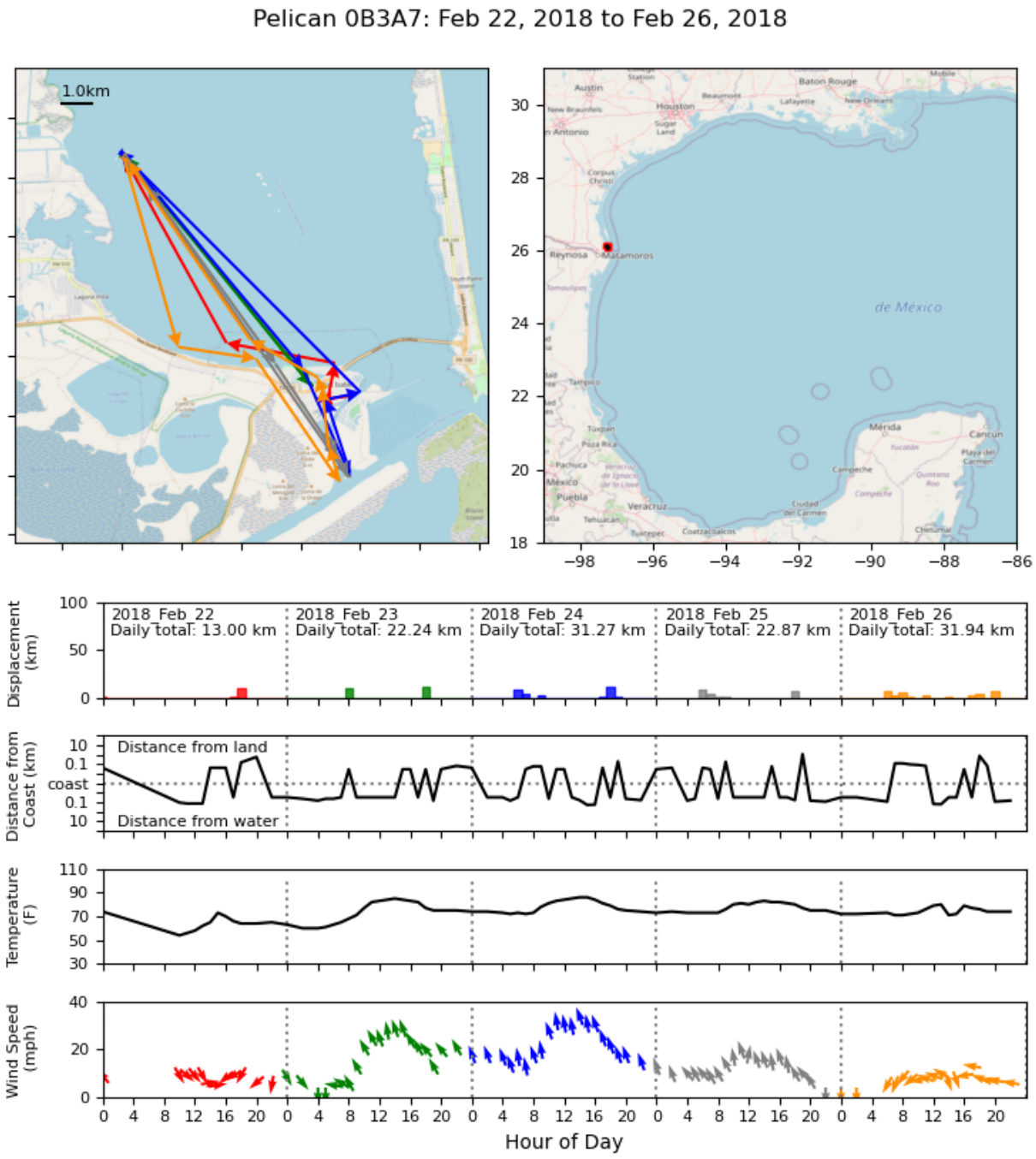

Figure 720 - Maps and graphs showing movements of 0B3A7 between 2018-02-22 and 2018-02-25 inclusive.

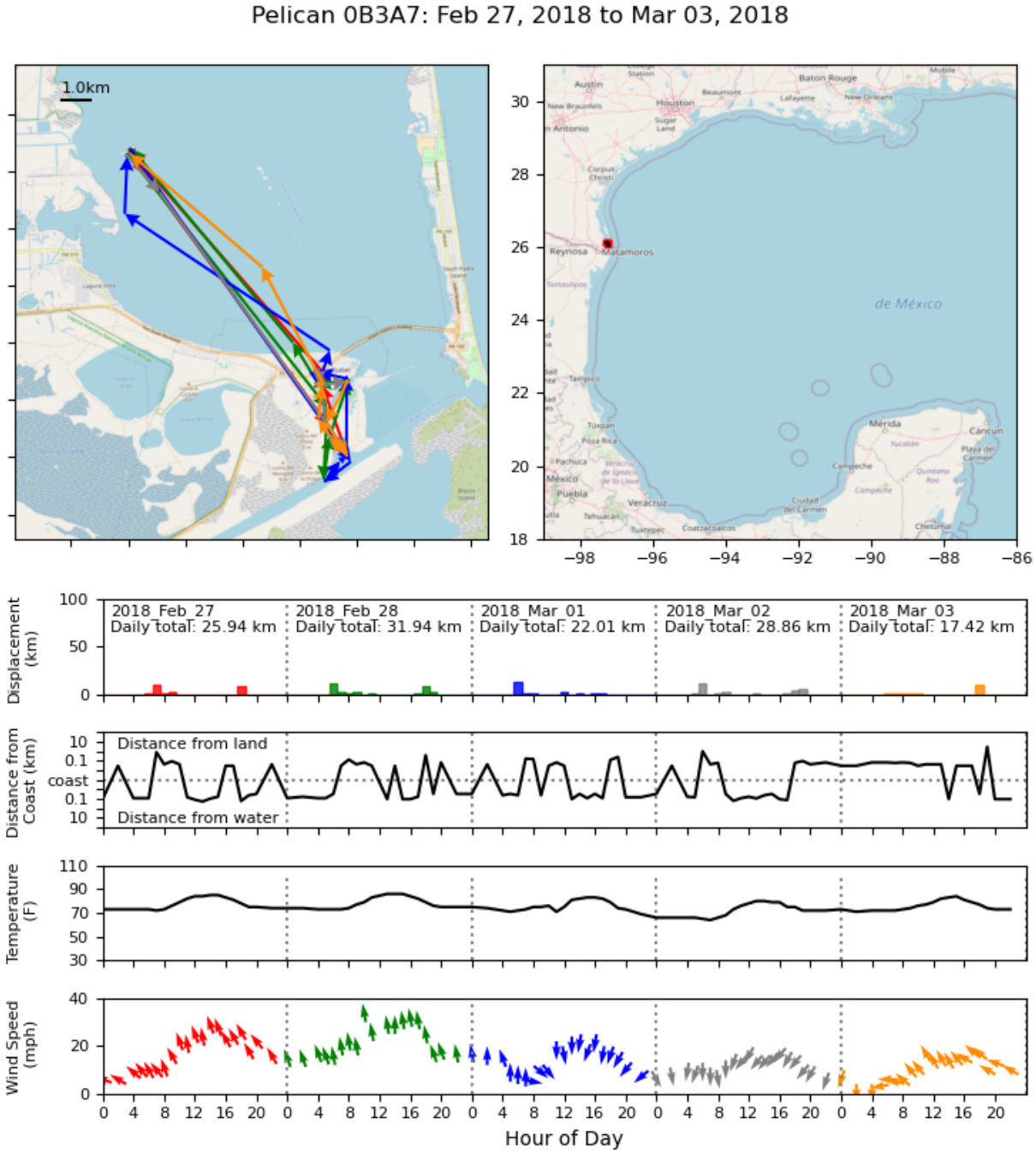

Figure 721 - Maps and graphs showing movements of 0B3A7 between 2018-02-27 and 2018-03-02 inclusive.

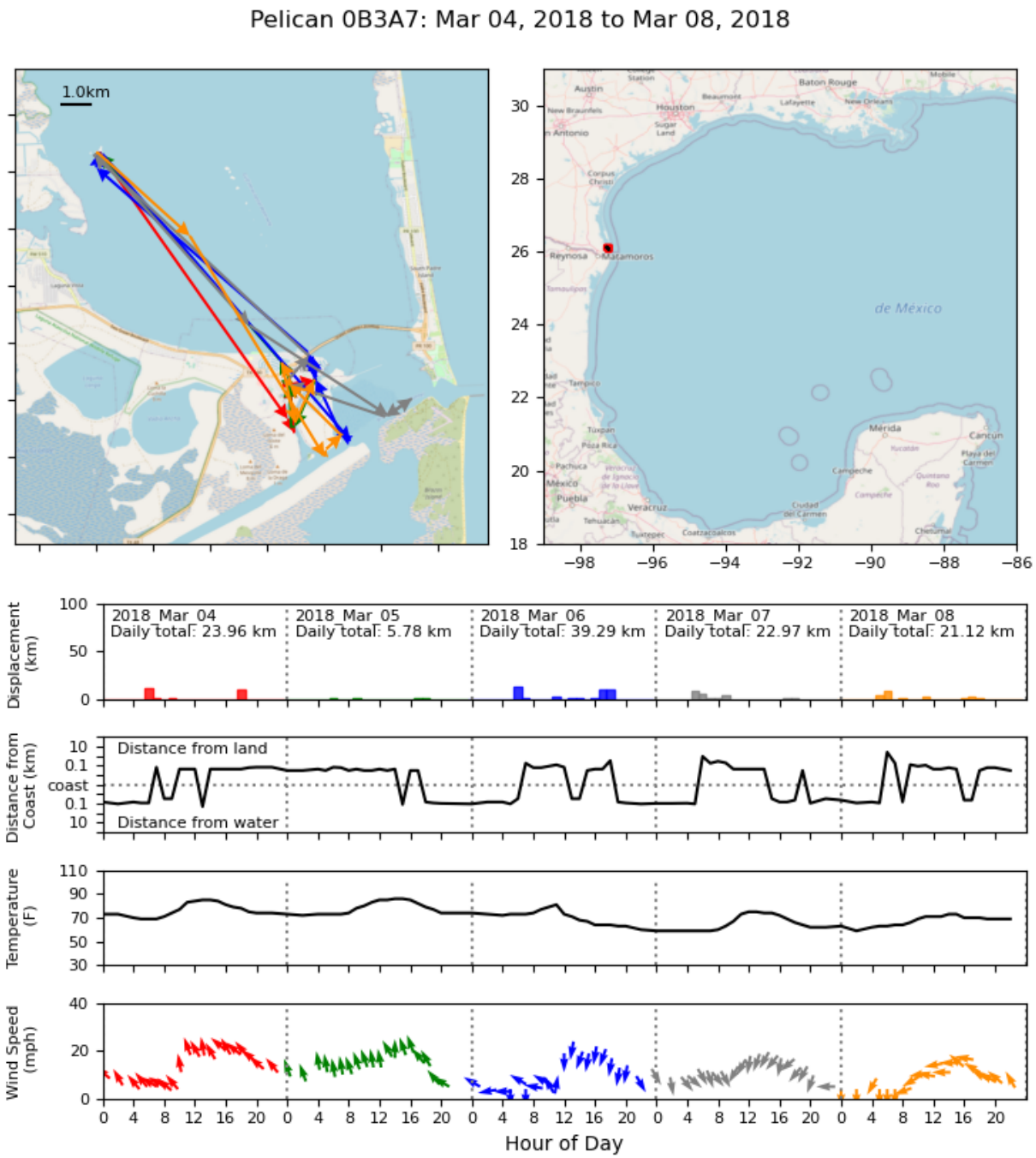

Figure 722 - Maps and graphs showing movements of 0B3A7 between 2018-03-04 and 2018-03-07 inclusive.

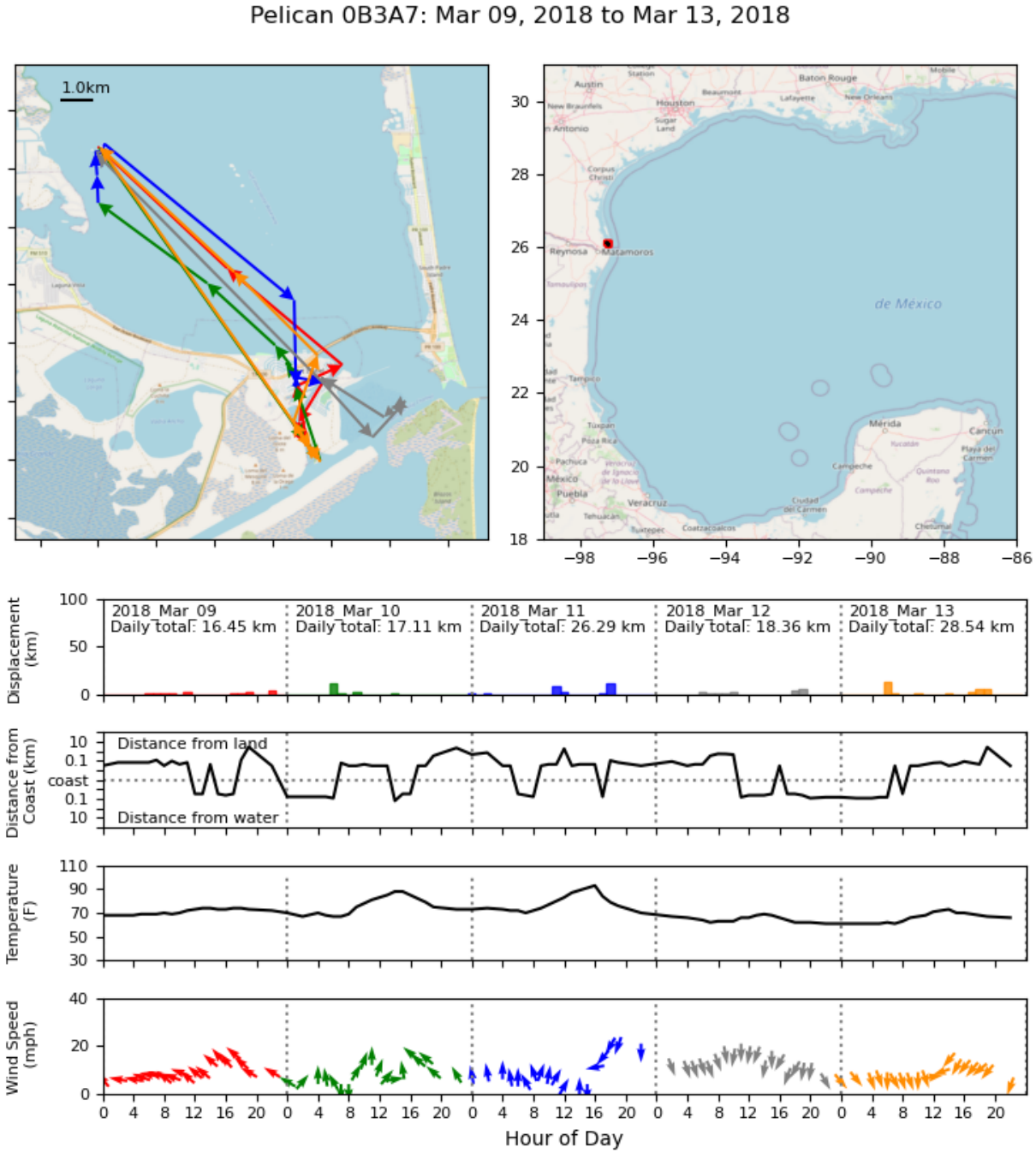

Figure 723 - Maps and graphs showing movements of 0B3A7 between 2018-03-09 and 2018-03-12 inclusive.

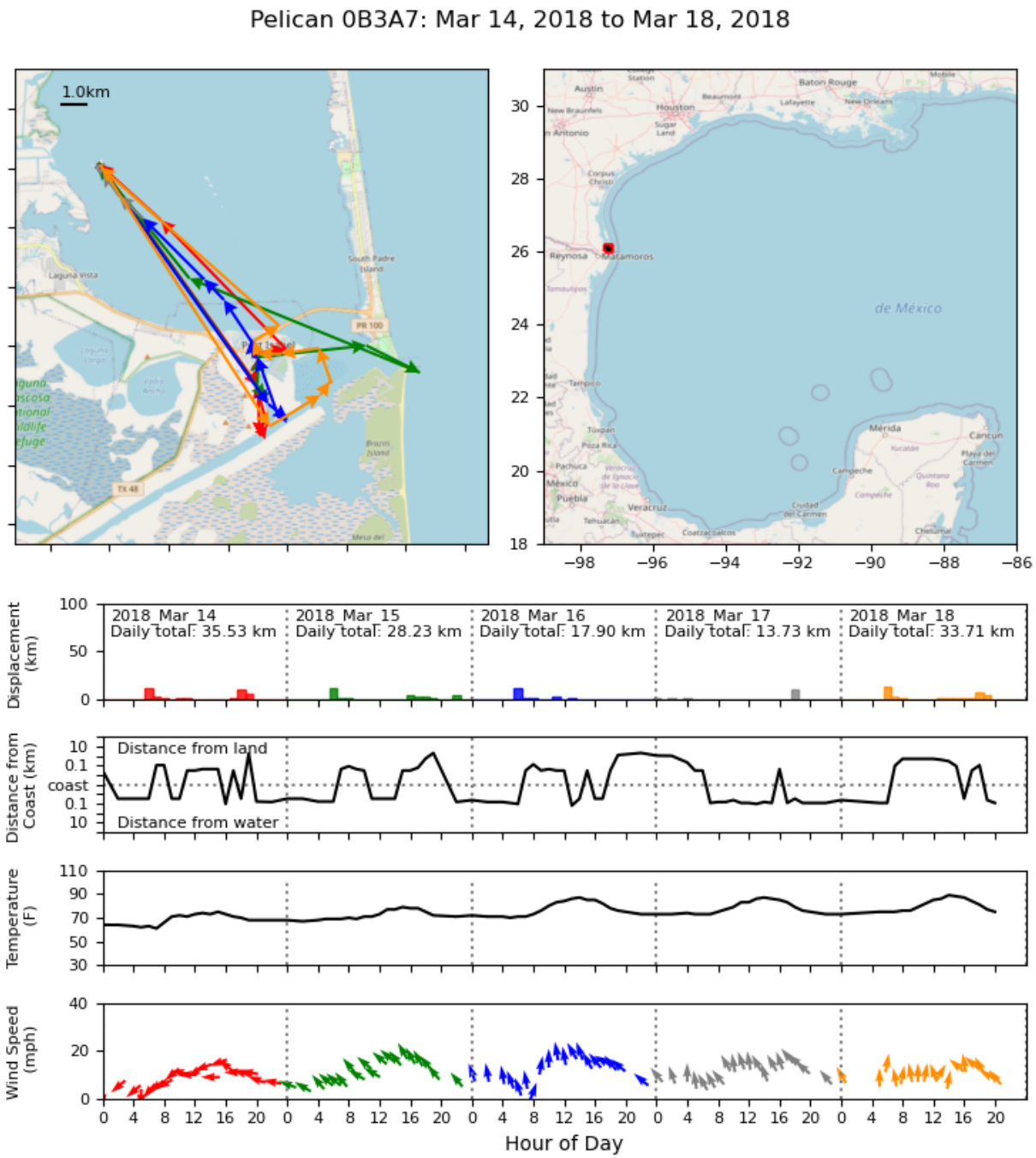

Figure 724 - Maps and graphs showing movements of 0B3A7 between 2018-03-14 and 2018-03-17 inclusive.

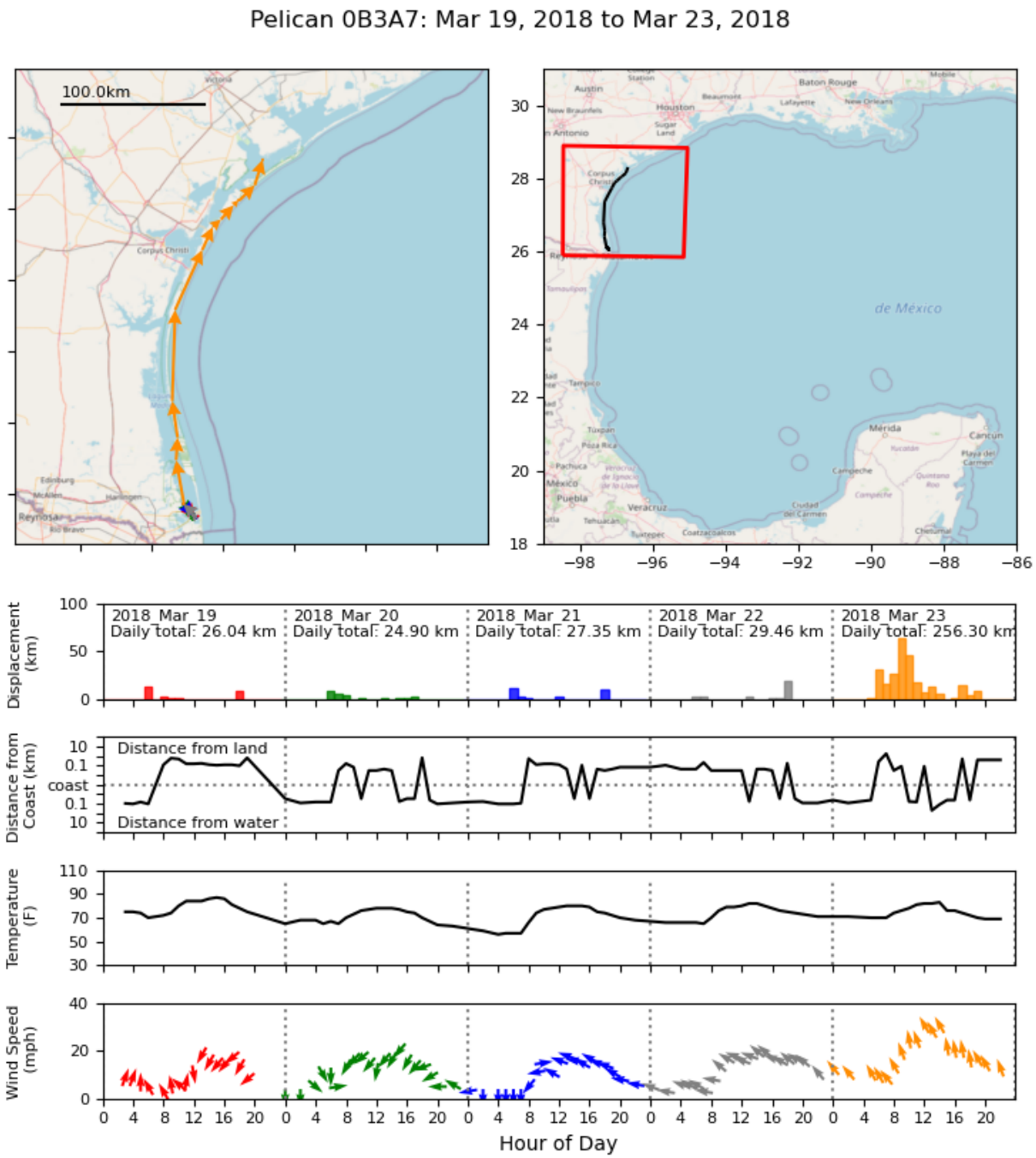

Figure 725 - Maps and graphs showing movements of 0B3A7 between 2018-03-19 and 2018-03-22 inclusive.

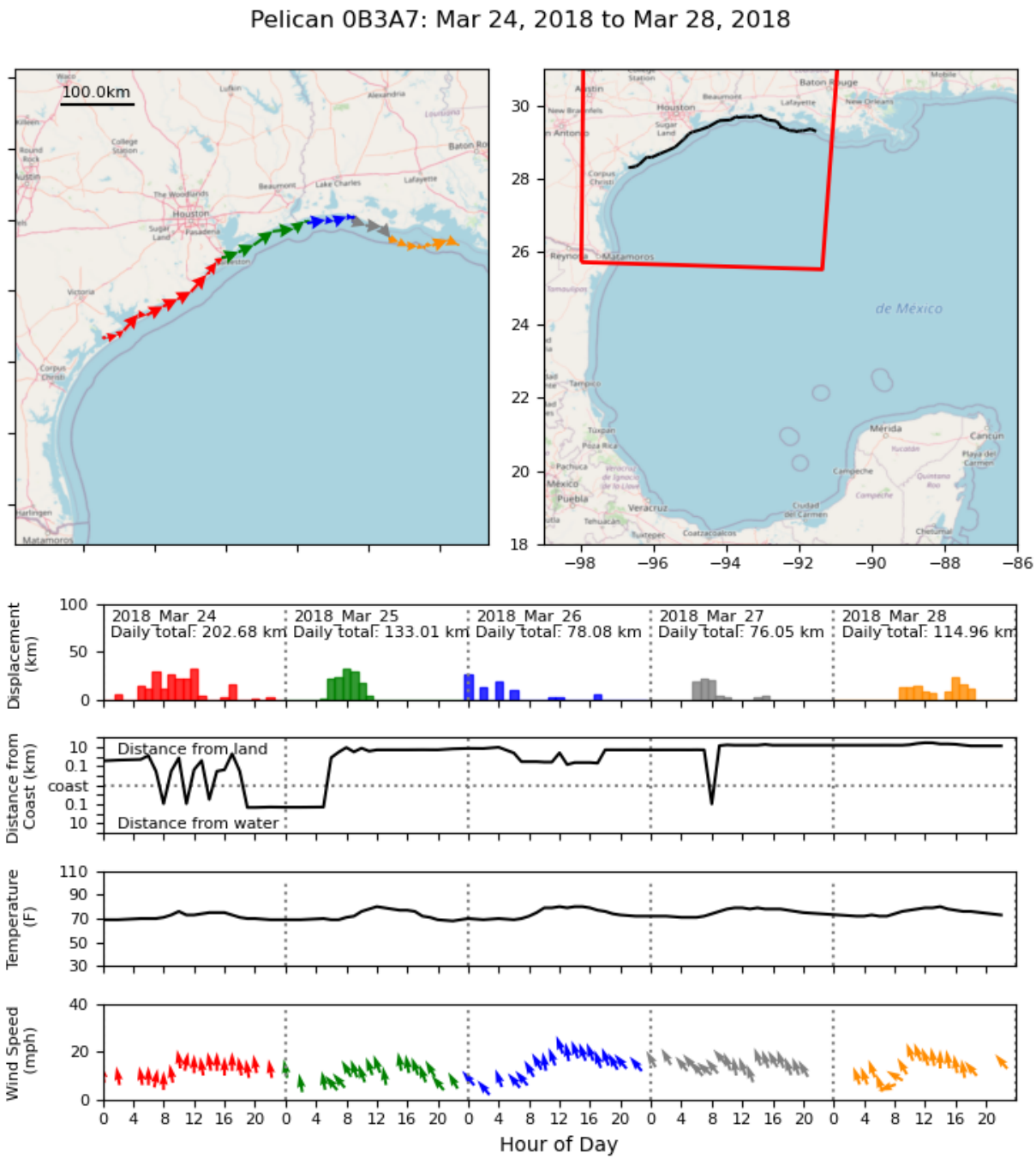

Figure 726 - Maps and graphs showing movements of 0B3A7 between 2018-03-24 and 2018-03-27 inclusive.

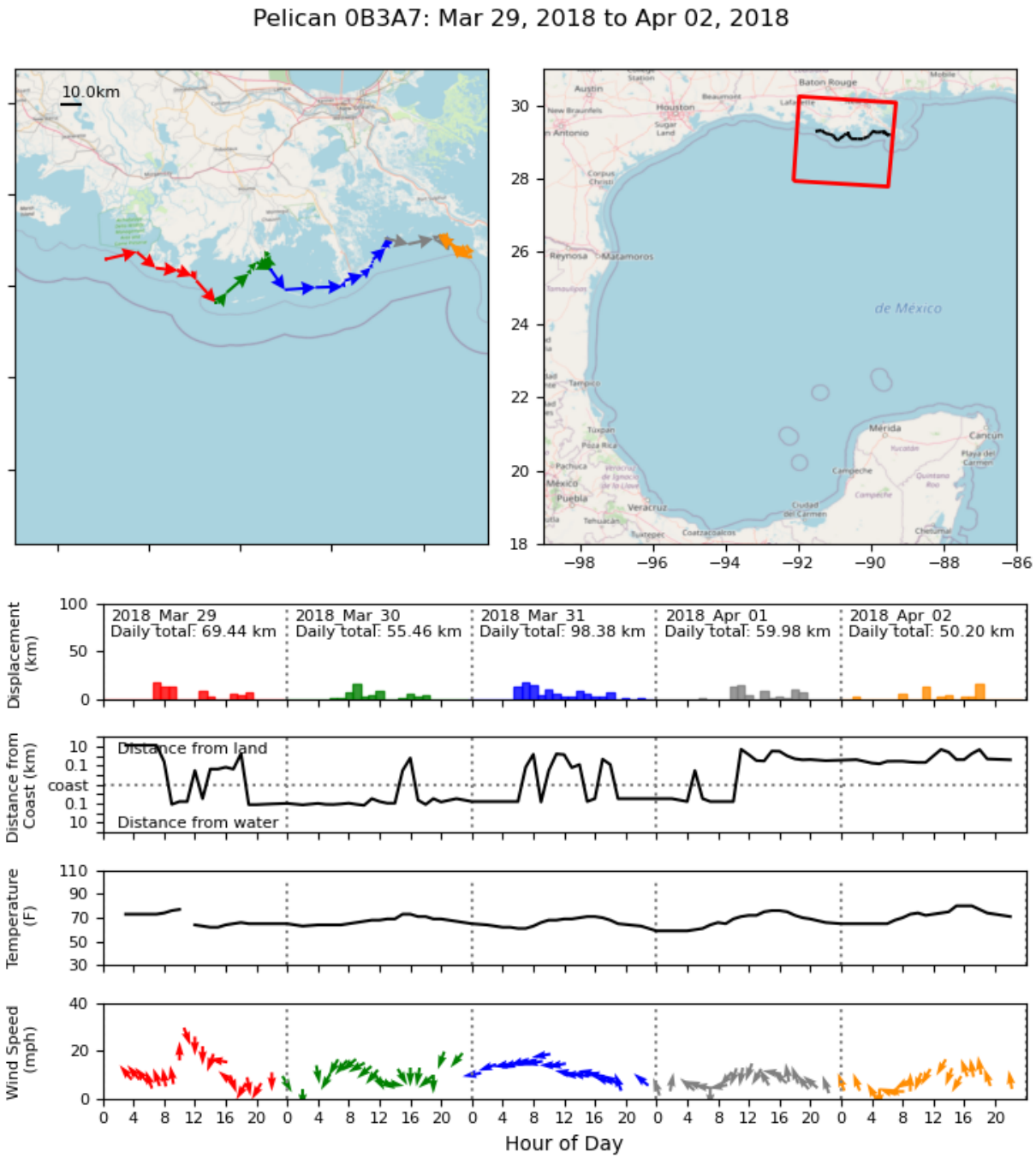

Figure 727 - Maps and graphs showing movements of 0B3A7 between 2018-03-29 and 2018-04-01 inclusive.

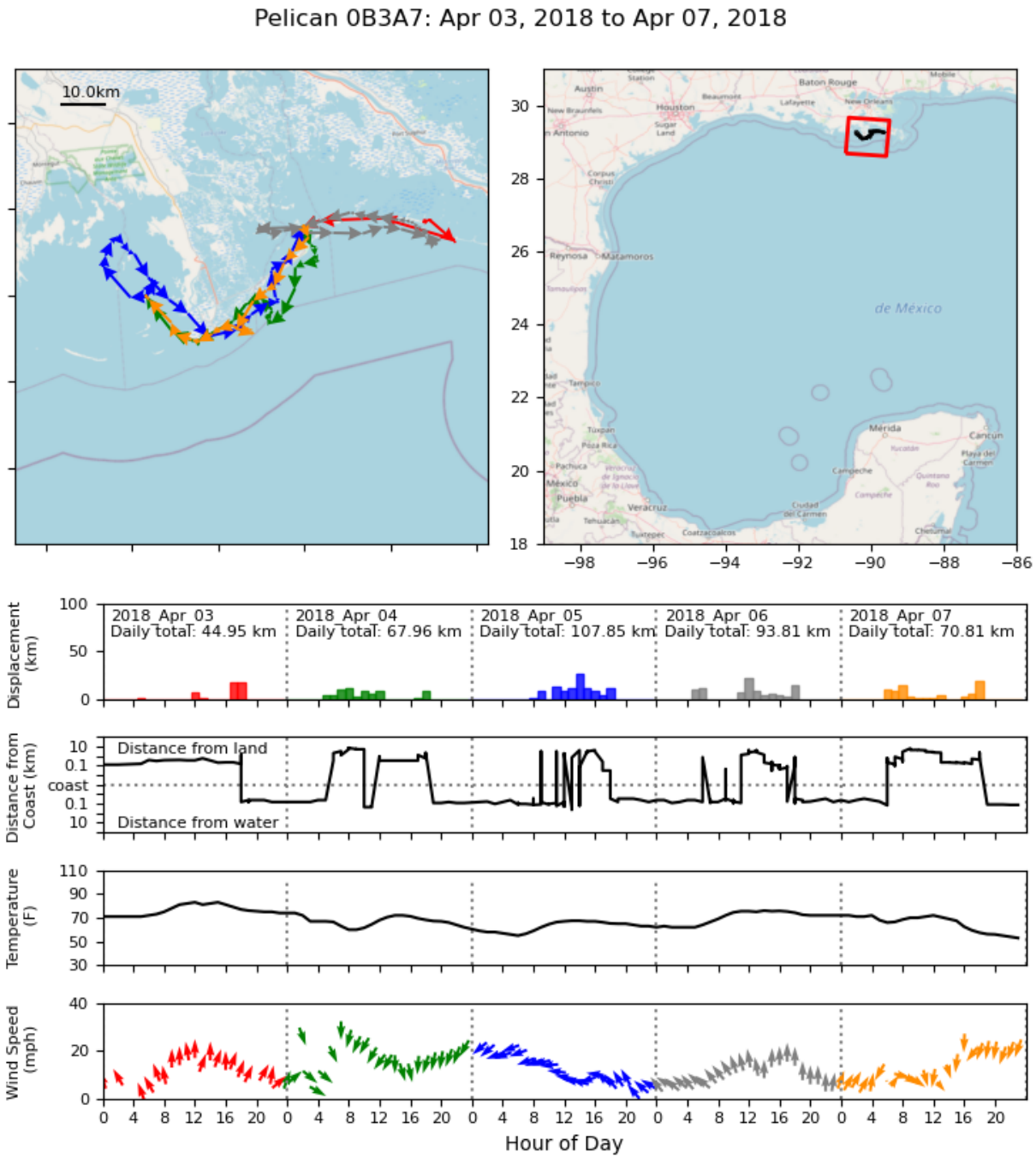

Figure 728 - Maps and graphs showing movements of 0B3A7 between 2018-04-03 and 2018-04-06 inclusive.

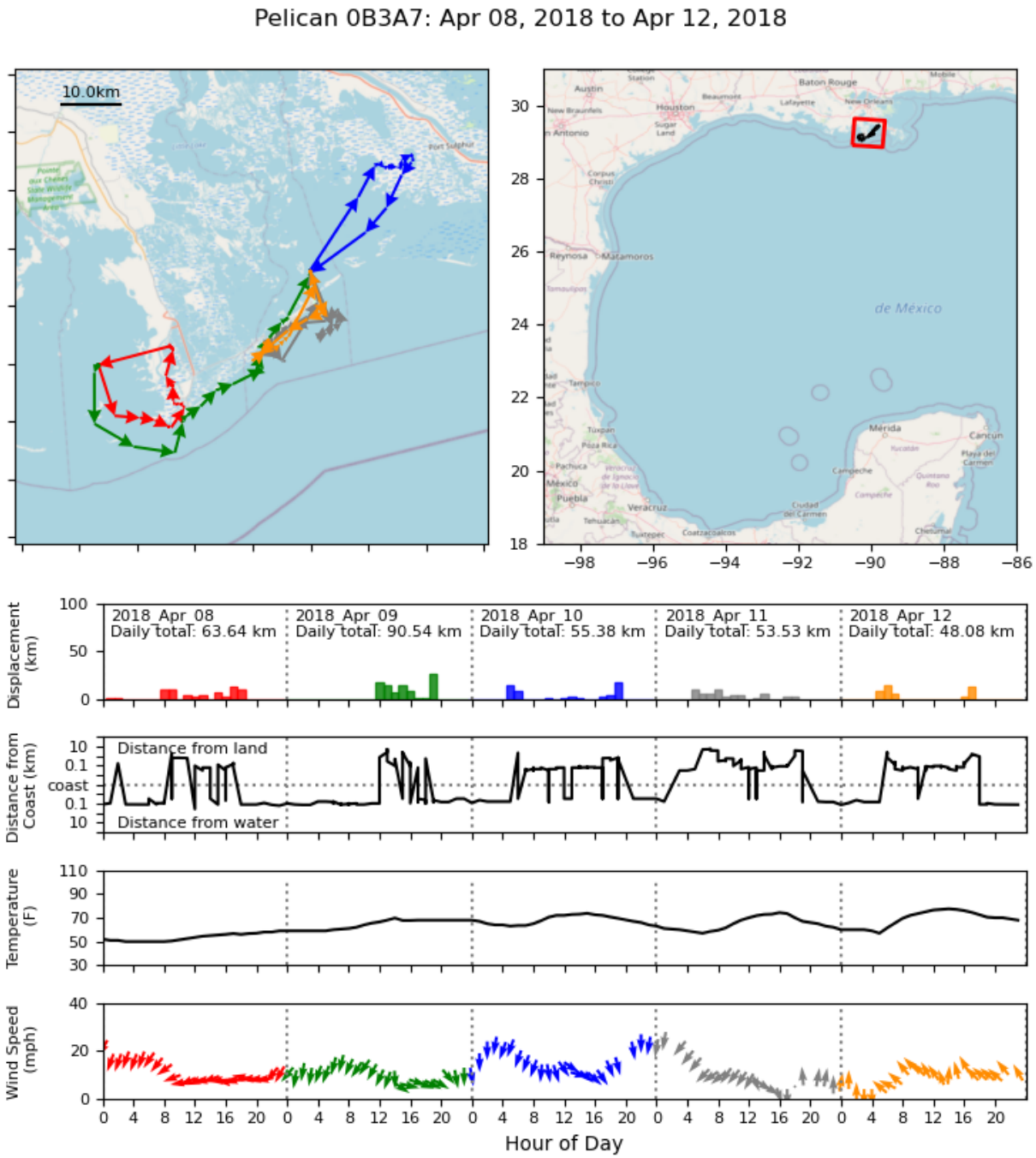

Figure 729 - Maps and graphs showing movements of 0B3A7 between 2018-04-08 and 2018-04-11 inclusive.

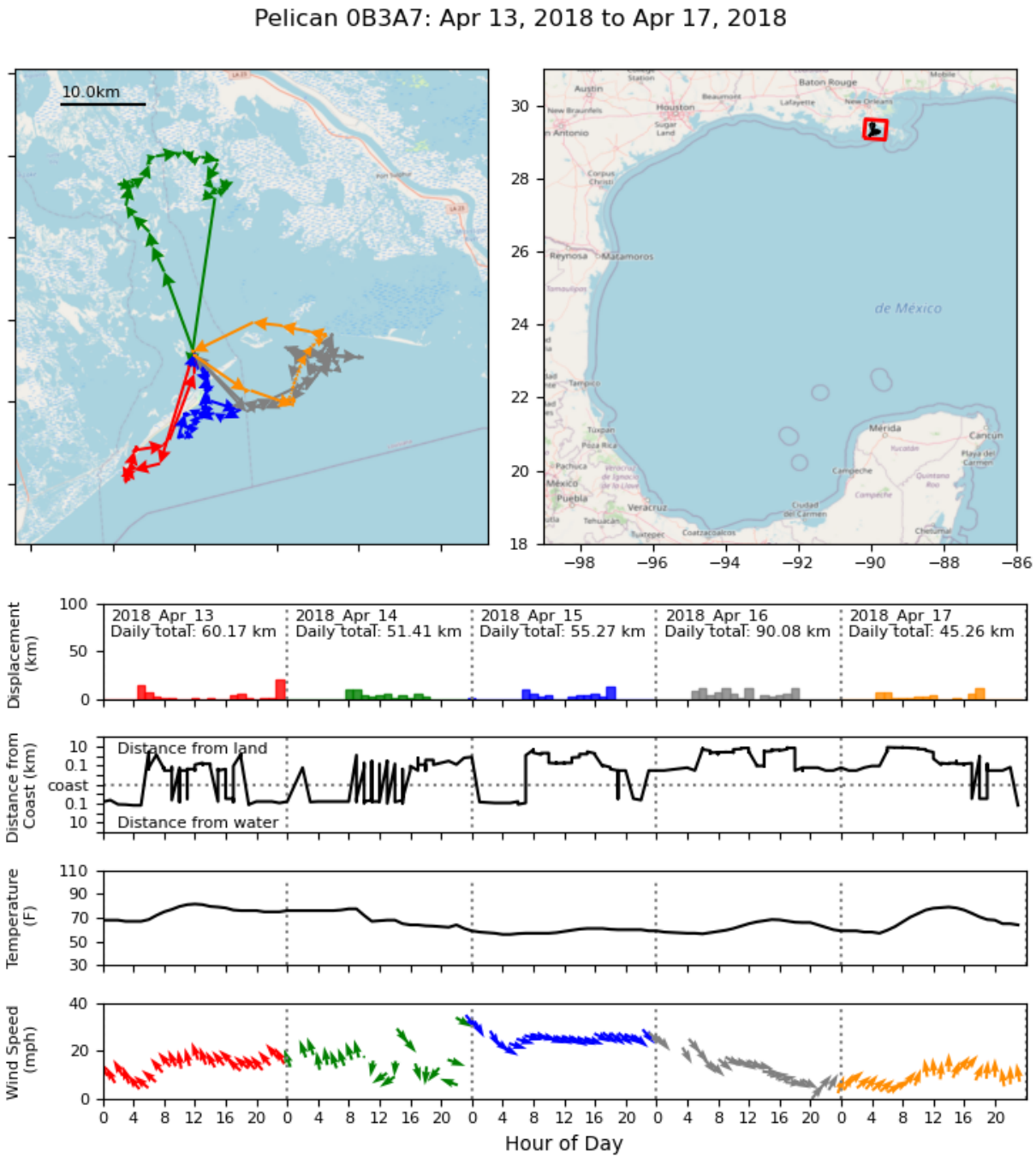

Figure 730 - Maps and graphs showing movements of 0B3A7 between 2018-04-13 and 2018-04-16 inclusive.

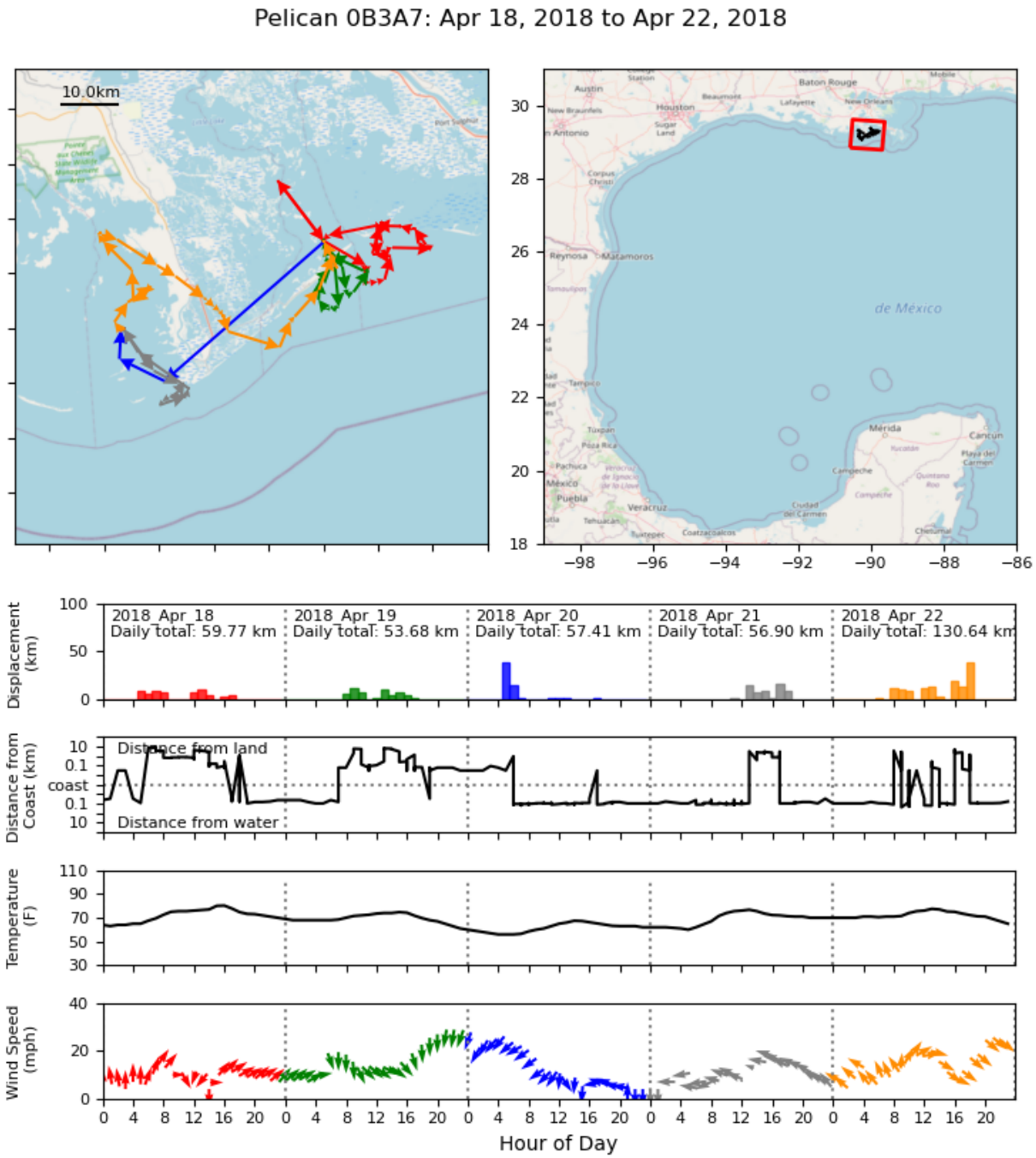

Figure 731 - Maps and graphs showing movements of 0B3A7 between 2018-04-18 and 2018-04-21 inclusive.

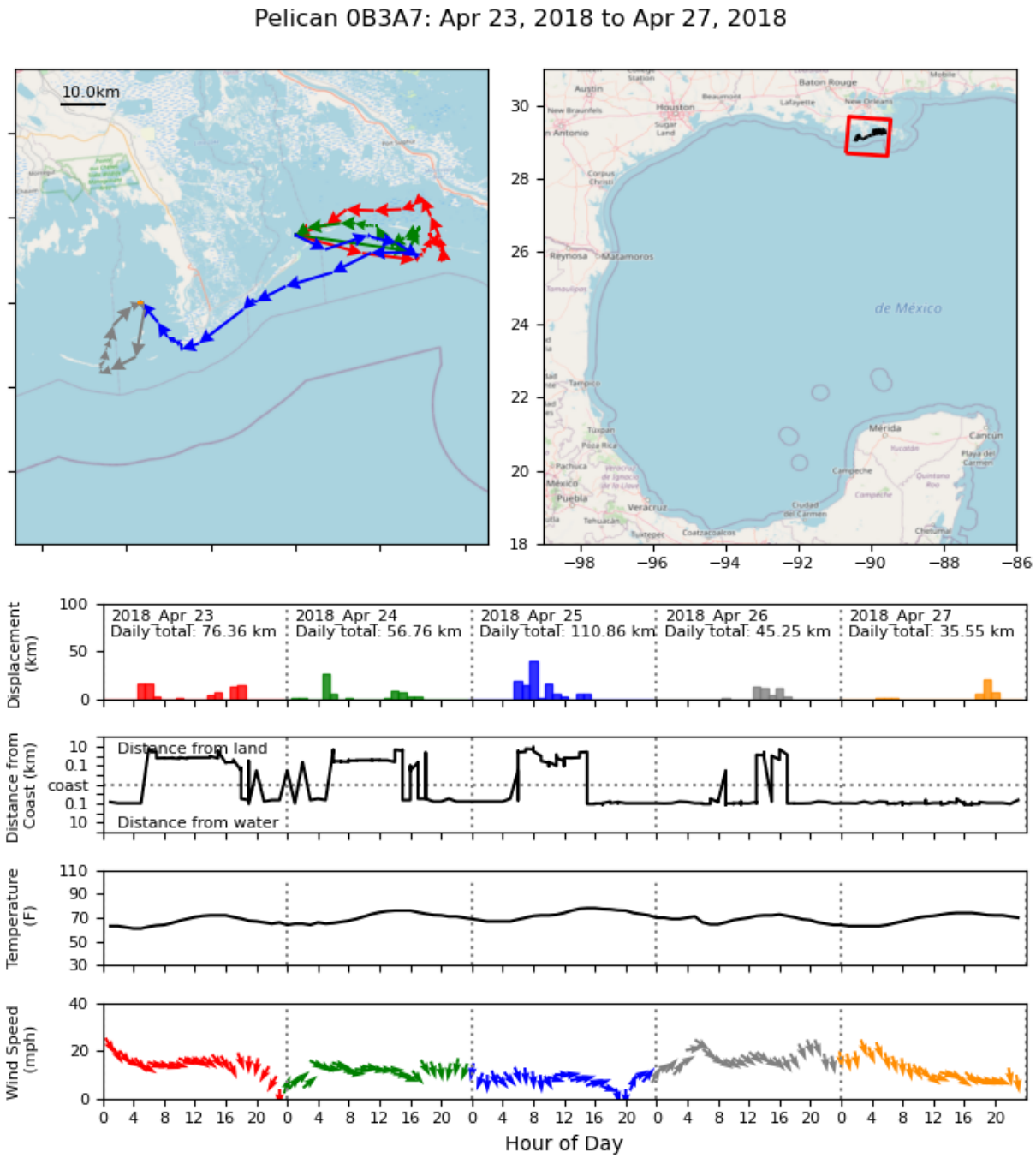

Figure 732 - Maps and graphs showing movements of 0B3A7 between 2018-04-23 and 2018-04-26 inclusive.

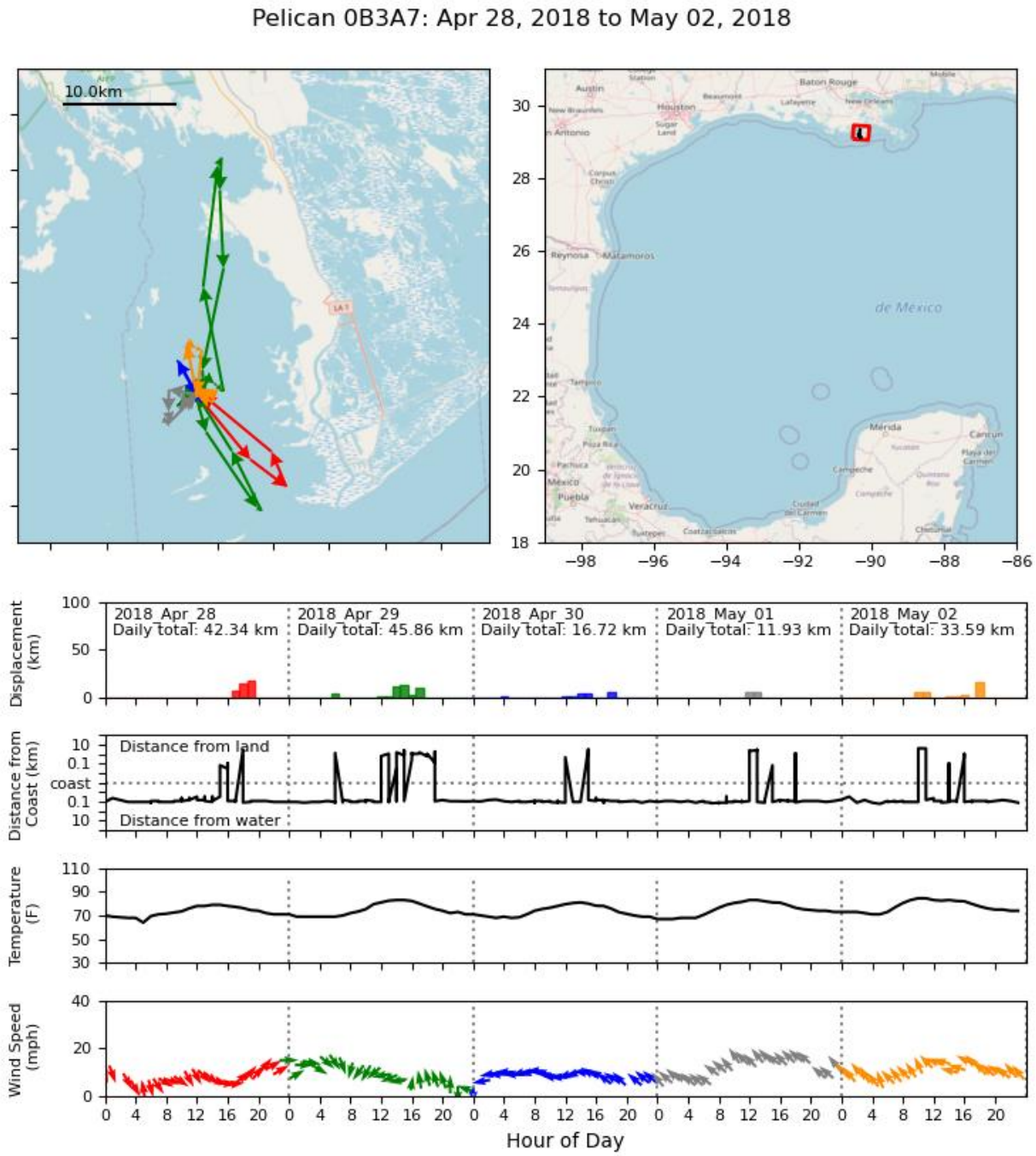

Figure 733 - Maps and graphs showing movements of 0B3A7 between 2018-04-28 and 2018-05-01 inclusive.

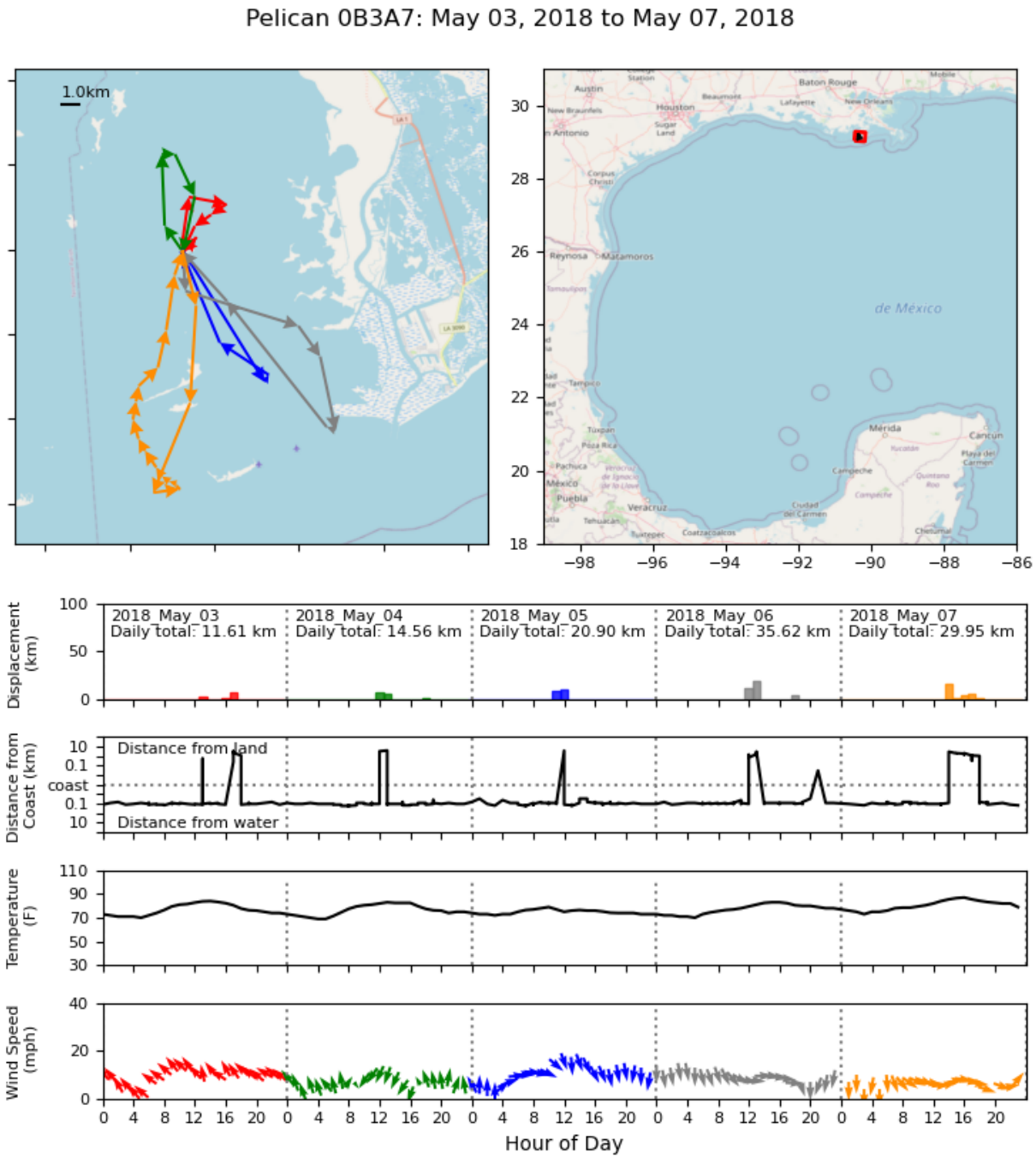

Figure 734 - Maps and graphs showing movements of 0B3A7 between 2018-05-03 and 2018-05-06 inclusive.

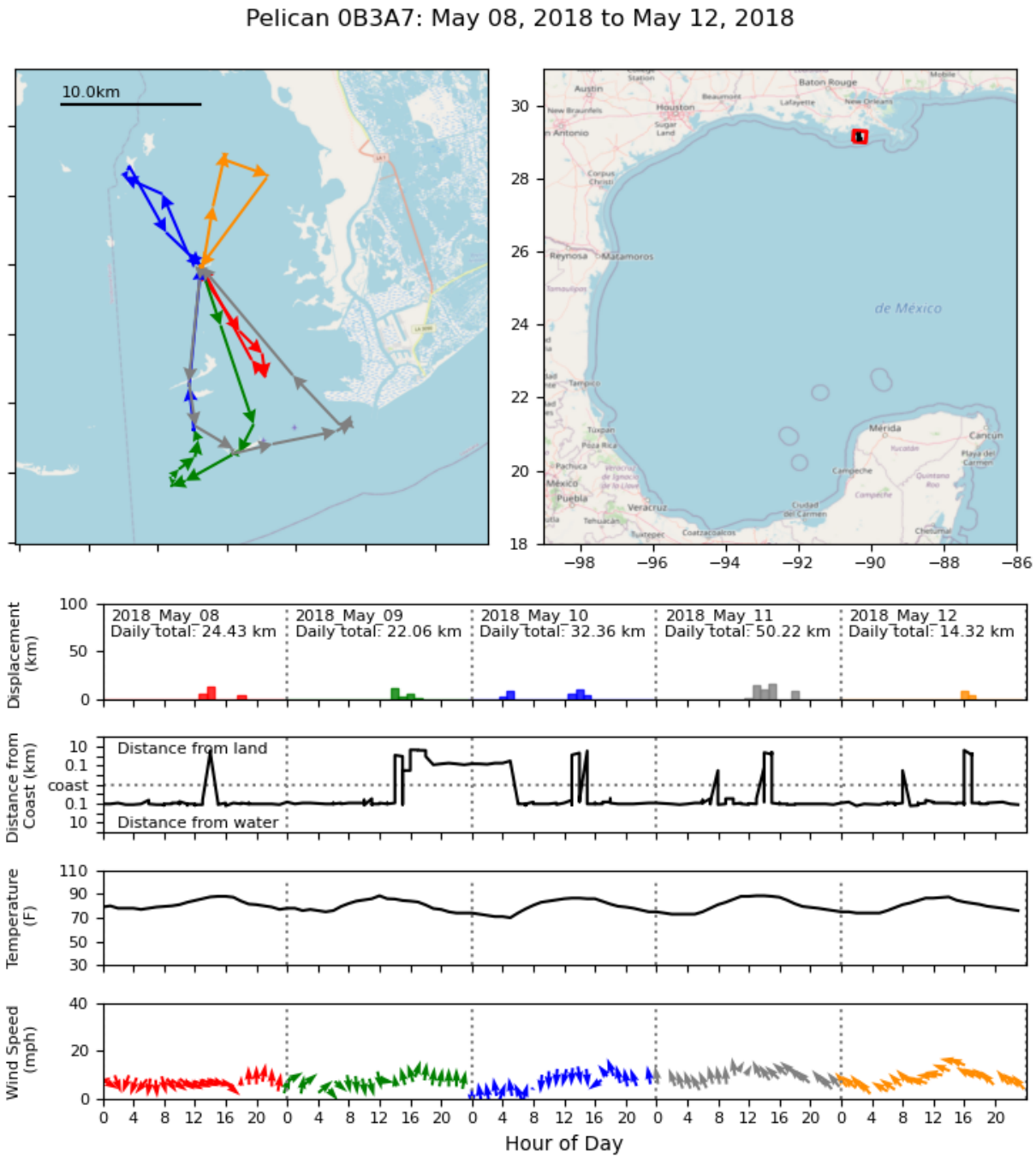

Figure 735 - Maps and graphs showing movements of 0B3A7 between 2018-05-08 and 2018-05-11 inclusive.

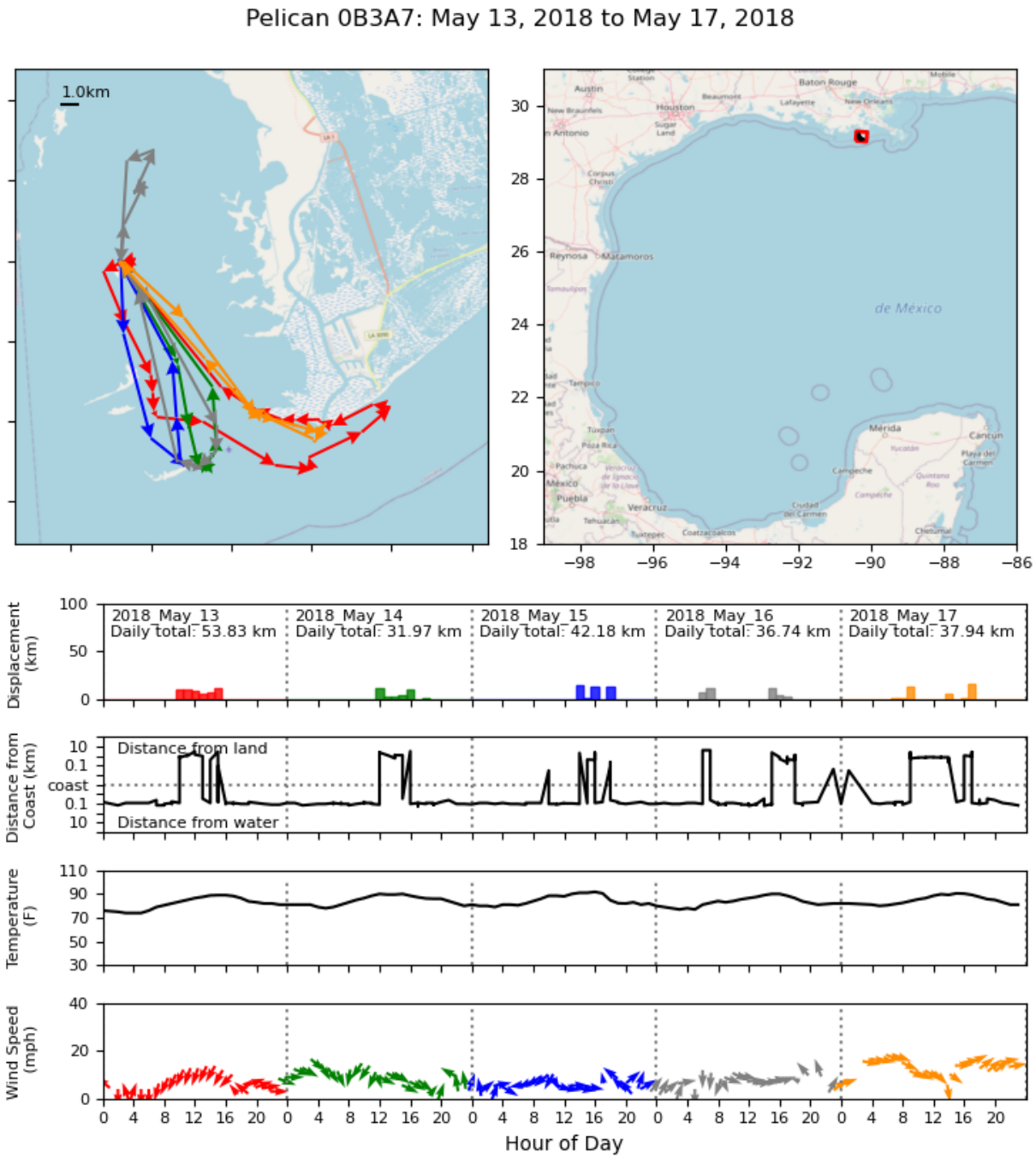

Figure 736 - Maps and graphs showing movements of 0B3A7 between 2018-05-13 and 2018-05-16 inclusive.

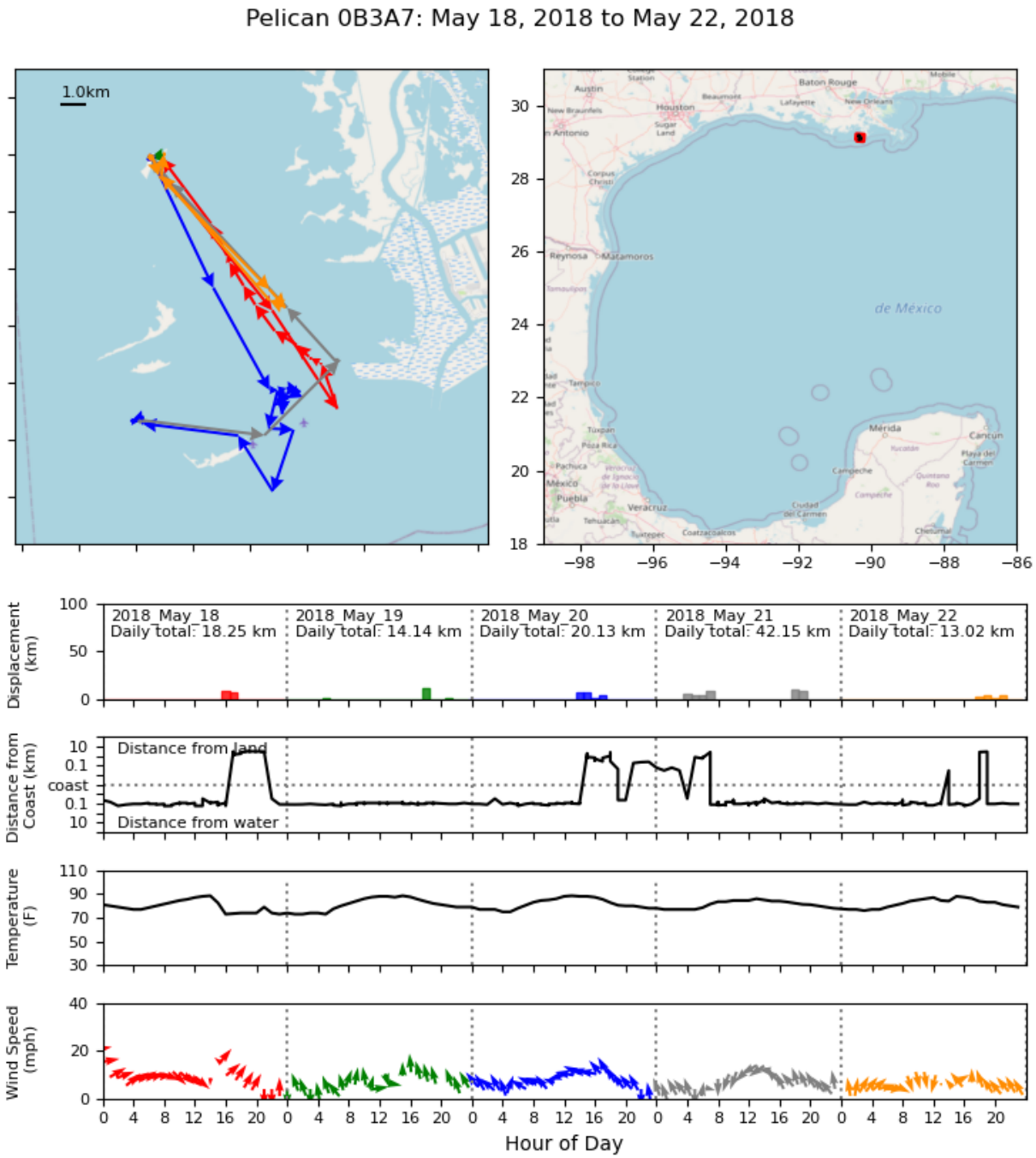

Figure 737 - Maps and graphs showing movements of 0B3A7 between 2018-05-18 and 2018-05-21 inclusive.

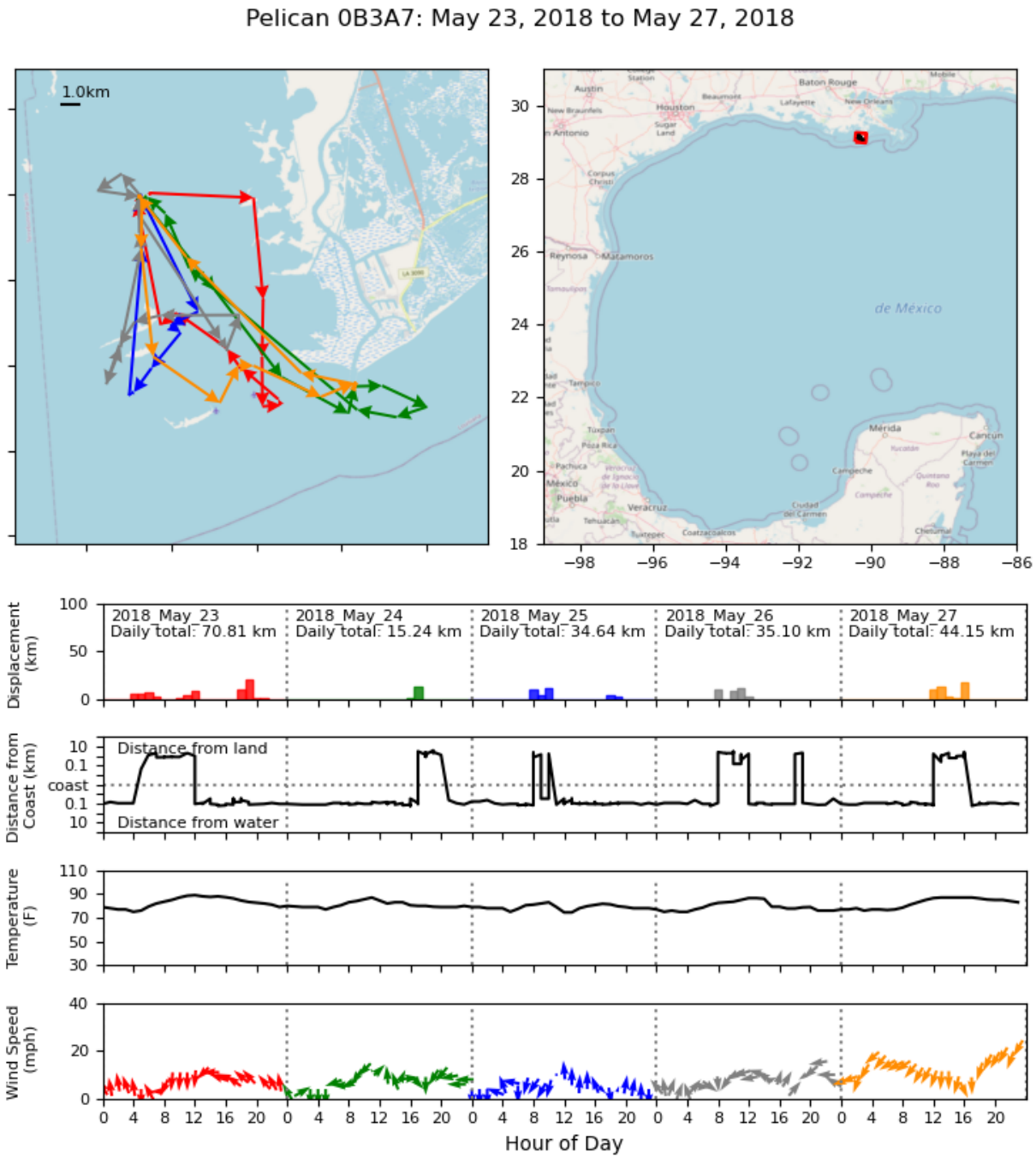

Figure 738 - Maps and graphs showing movements of 0B3A7 between 2018-05-23 and 2018-05-26 inclusive.

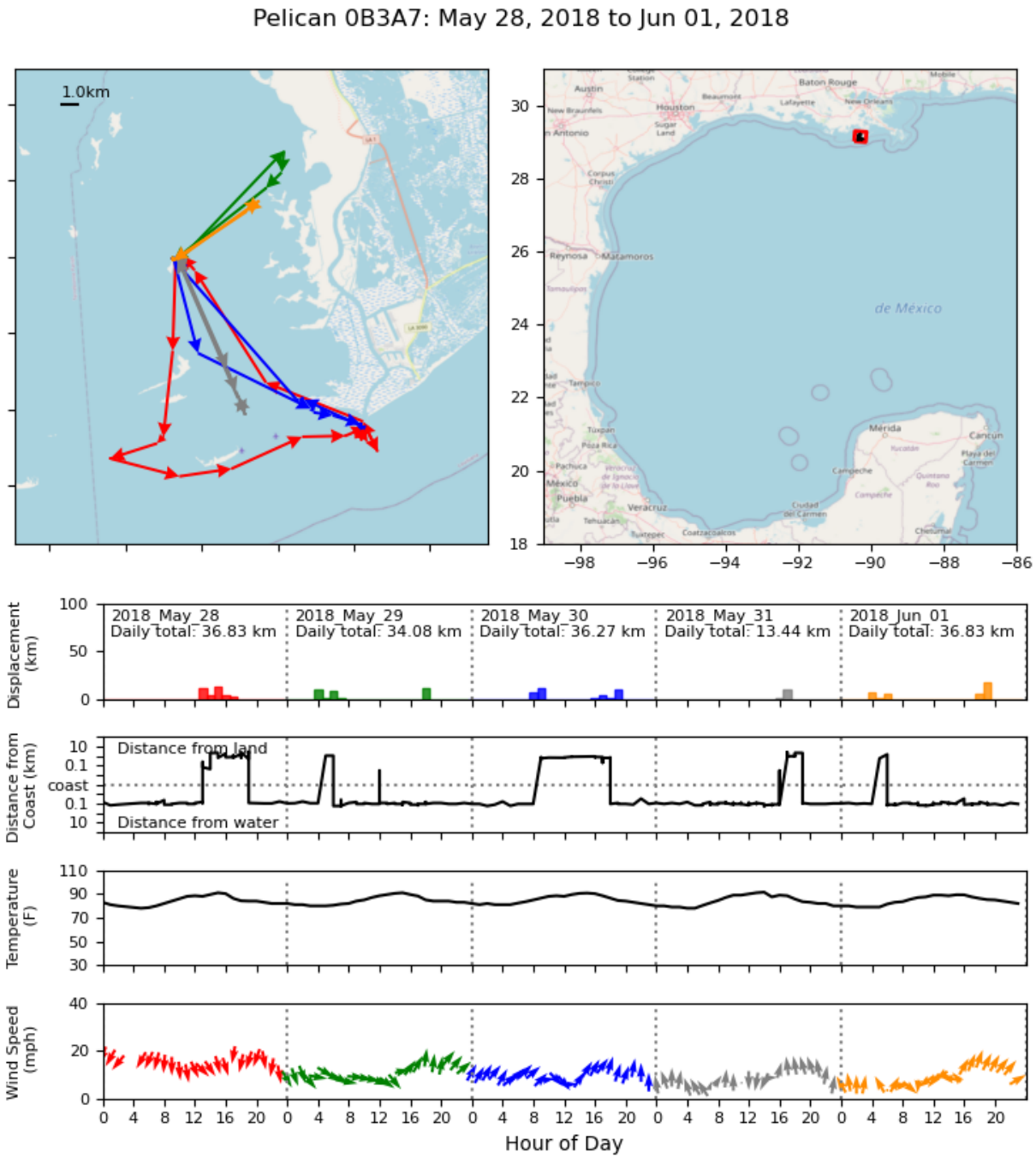

Figure 739 - Maps and graphs showing movements of 0B3A7 between 2018-05-28 and 2018-05-31 inclusive.

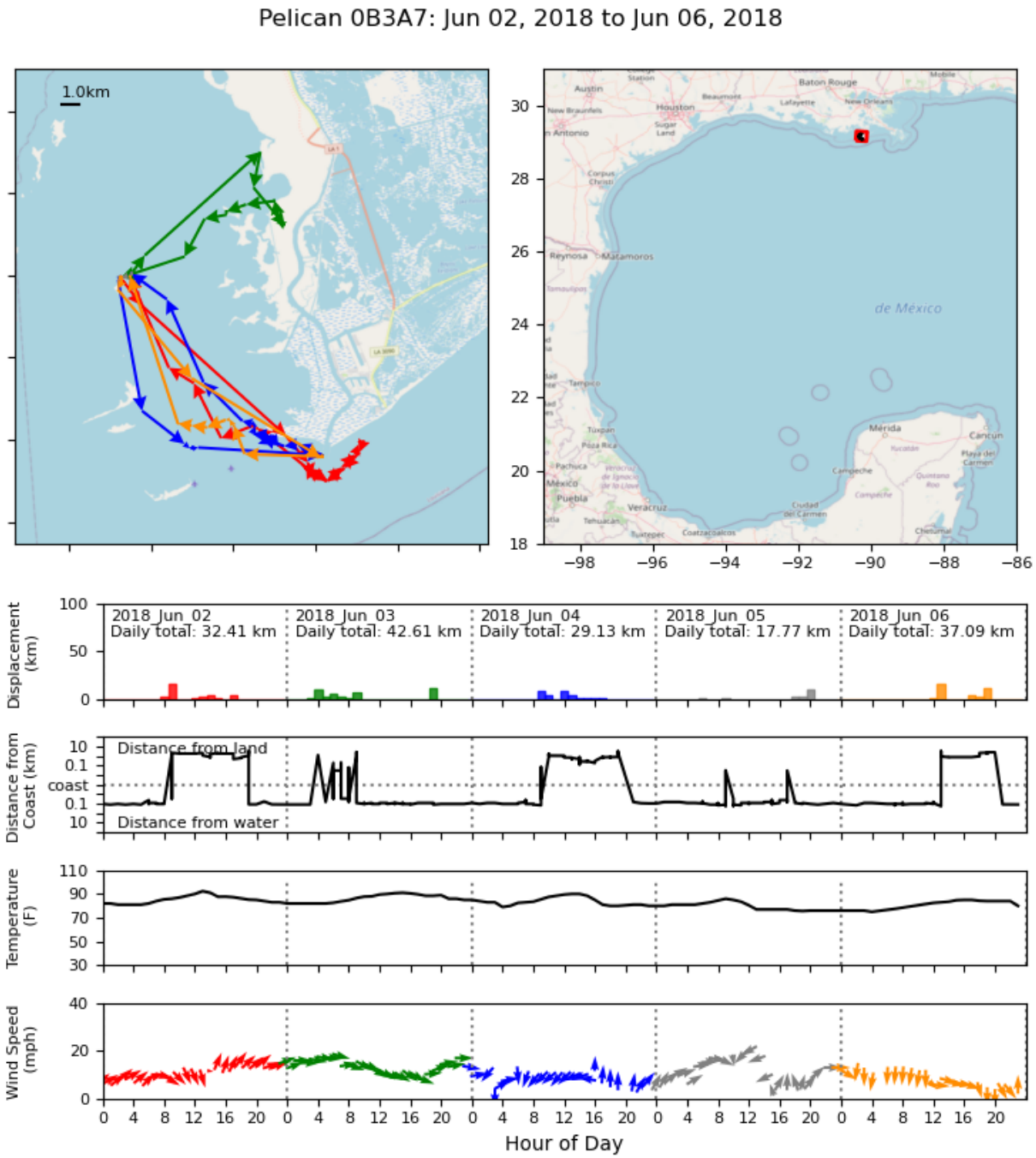

Figure 740 - Maps and graphs showing movements of 0B3A7 between 2018-06-02 and 2018-06-05 inclusive.

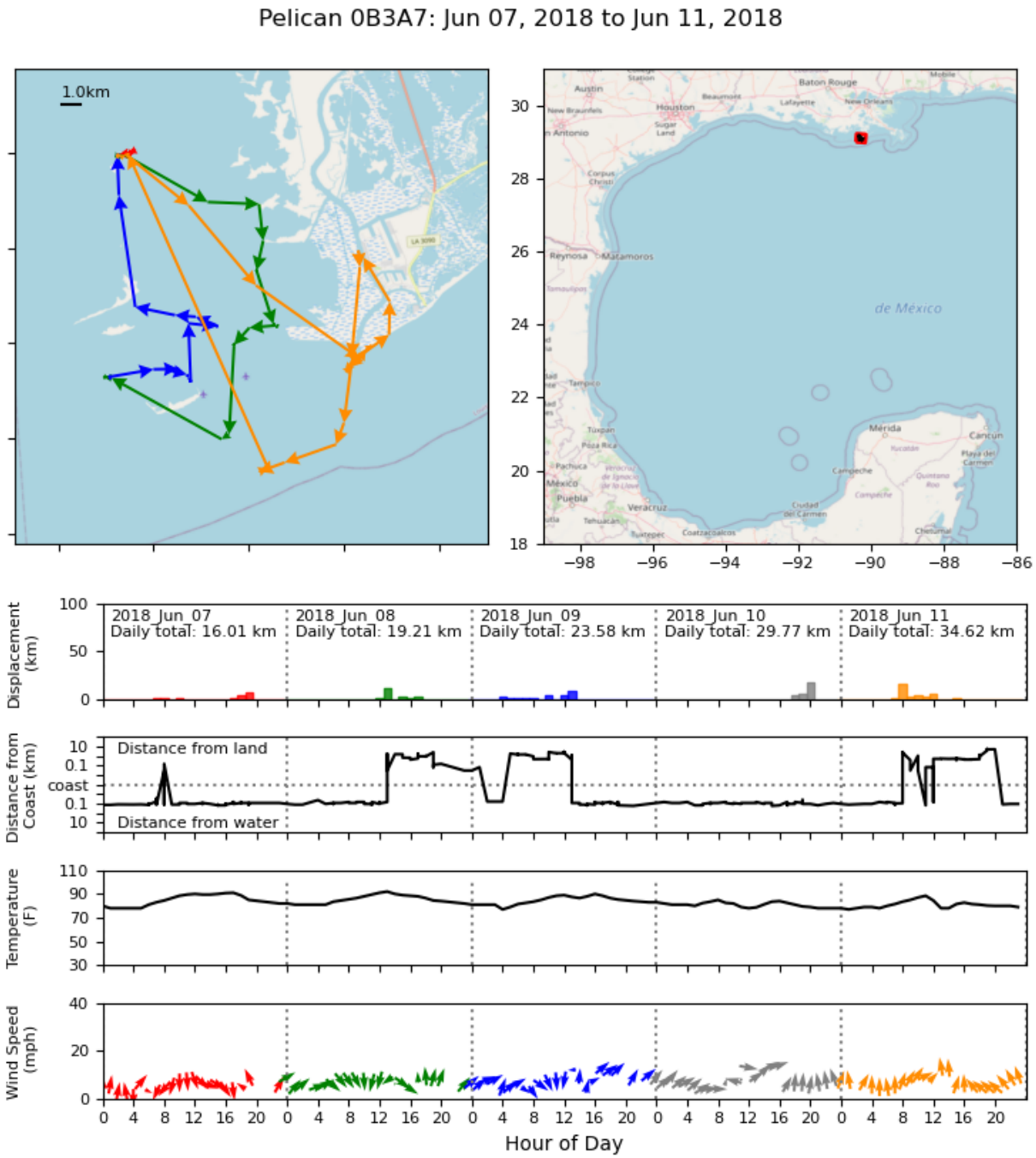

Figure 741 - Maps and graphs showing movements of 0B3A7 between 2018-06-07 and 2018-06-10 inclusive.

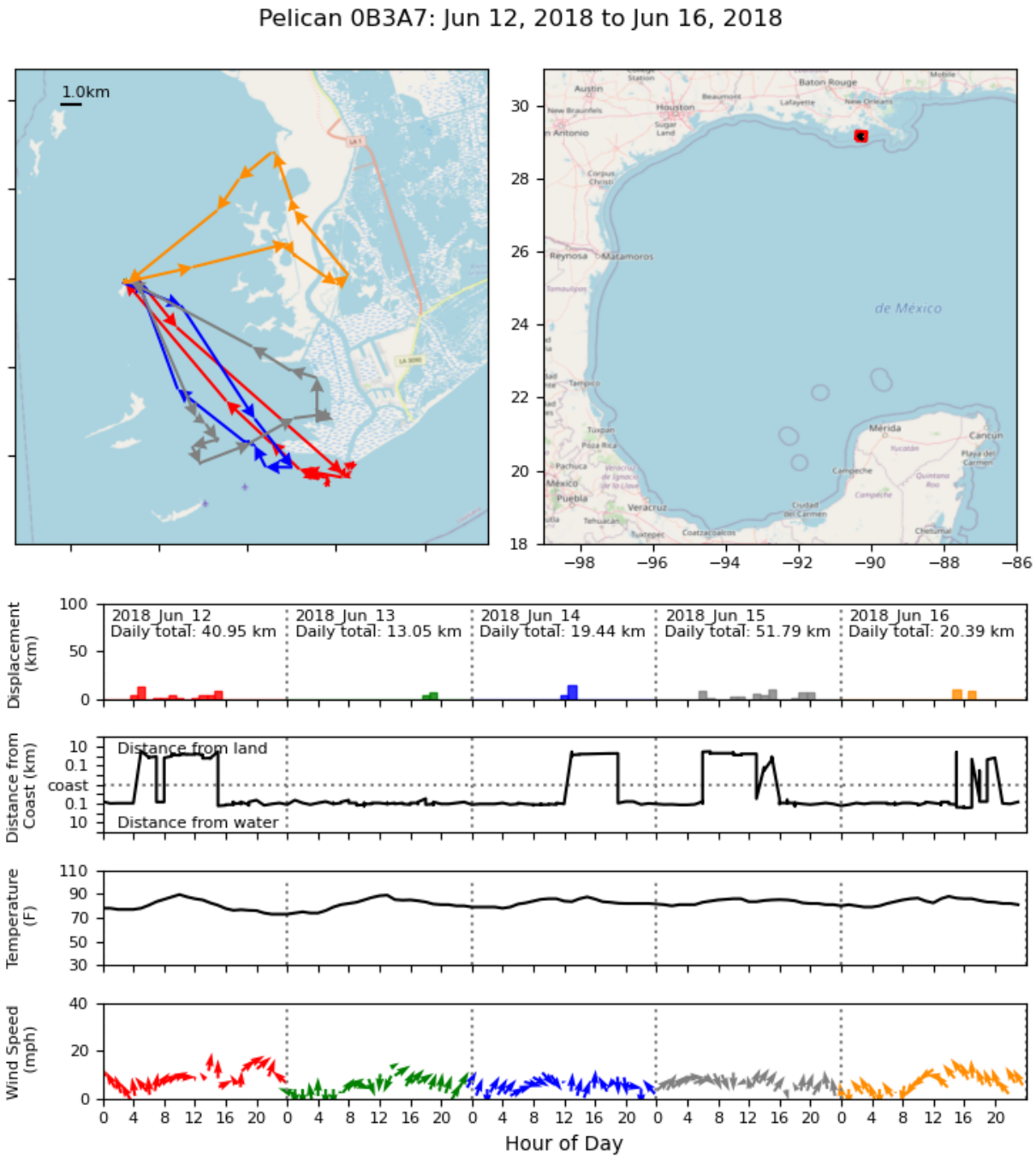

Figure 742 - Maps and graphs showing movements of 0B3A7 between 2018-06-12 and 2018-06-15 inclusive.

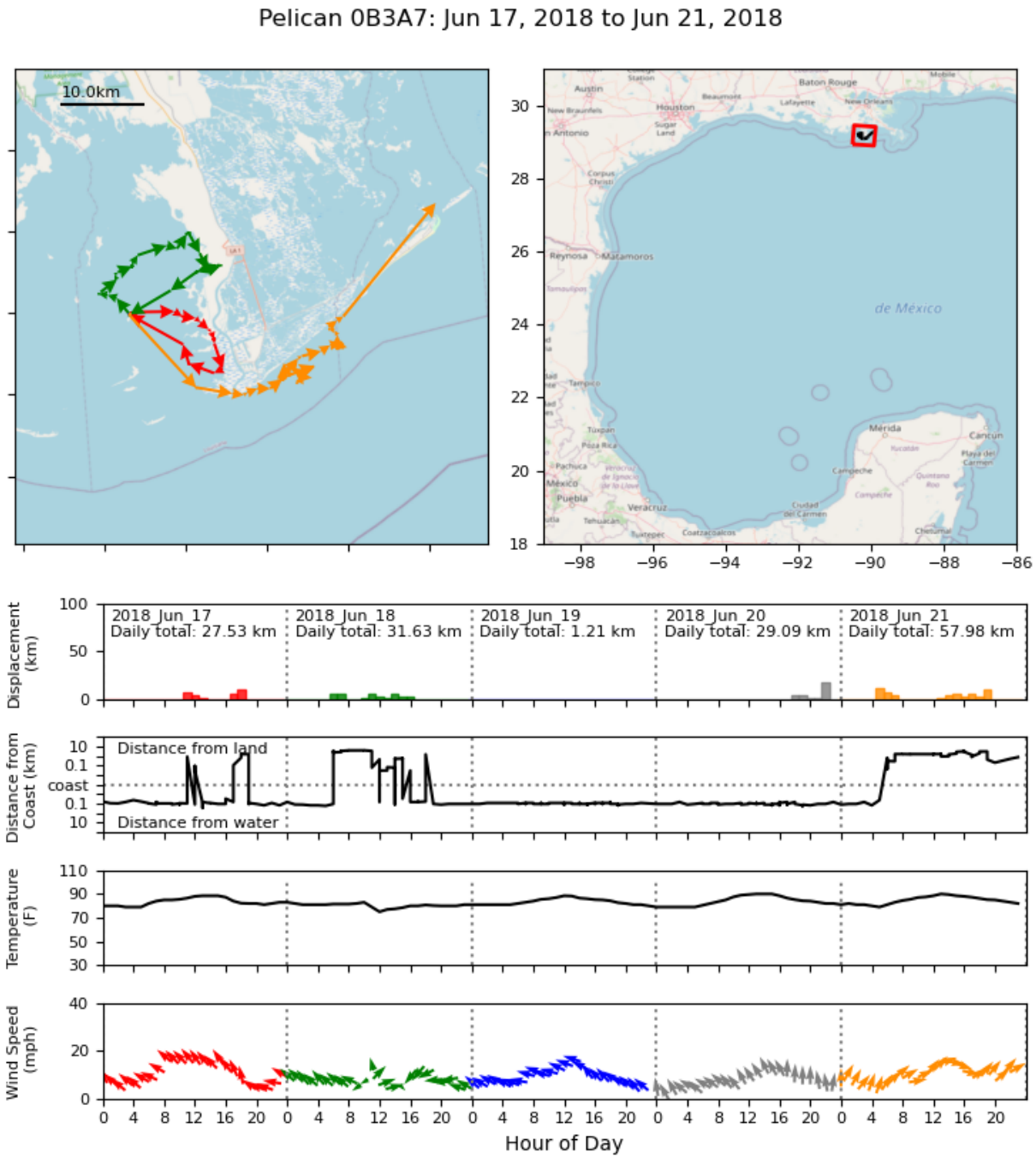

Figure 743 - Maps and graphs showing movements of 0B3A7 between 2018-06-17 and 2018-06-20 inclusive.

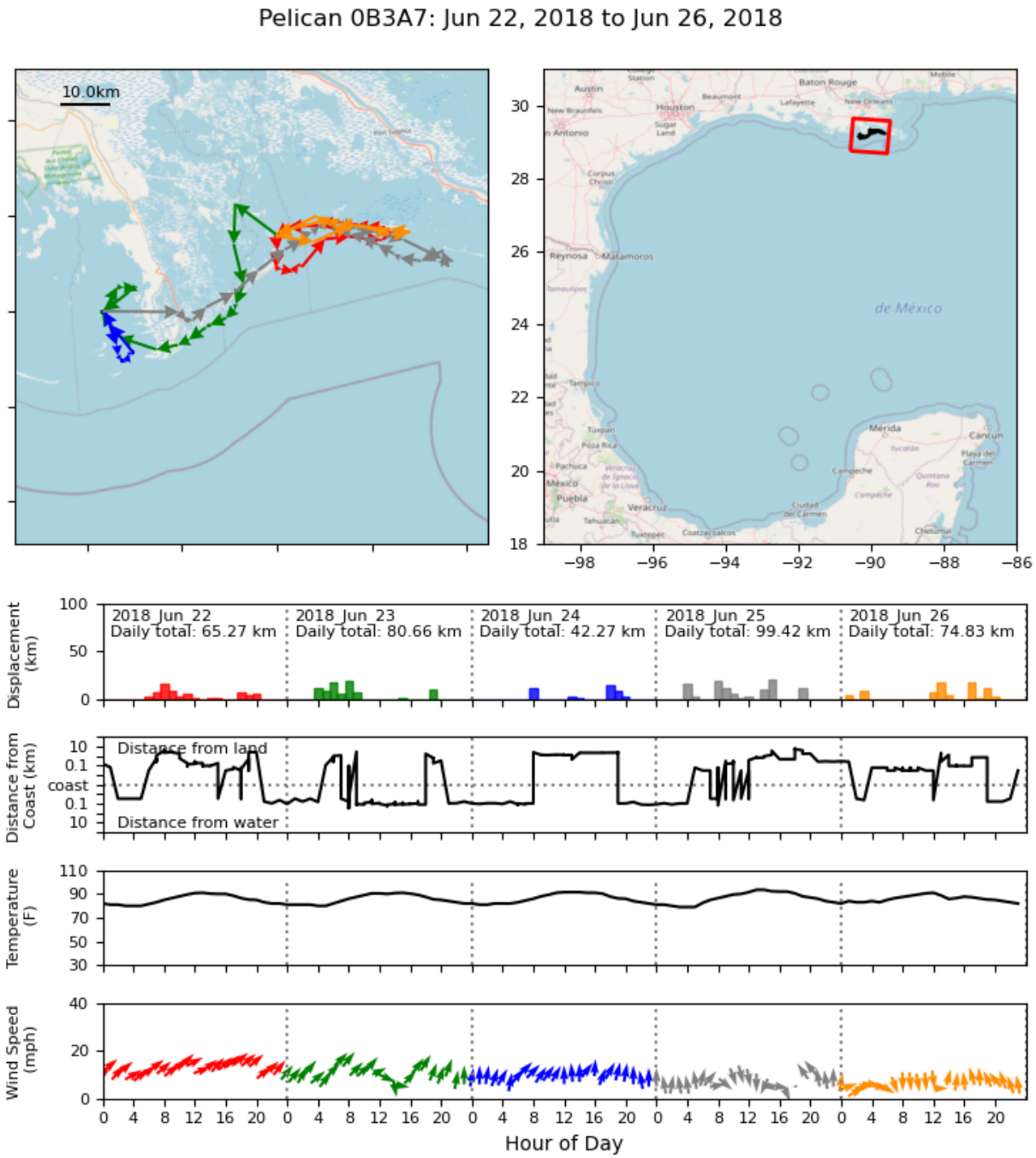

Figure 744 - Maps and graphs showing movements of 0B3A7 between 2018-06-22 and 2018-06-25 inclusive.

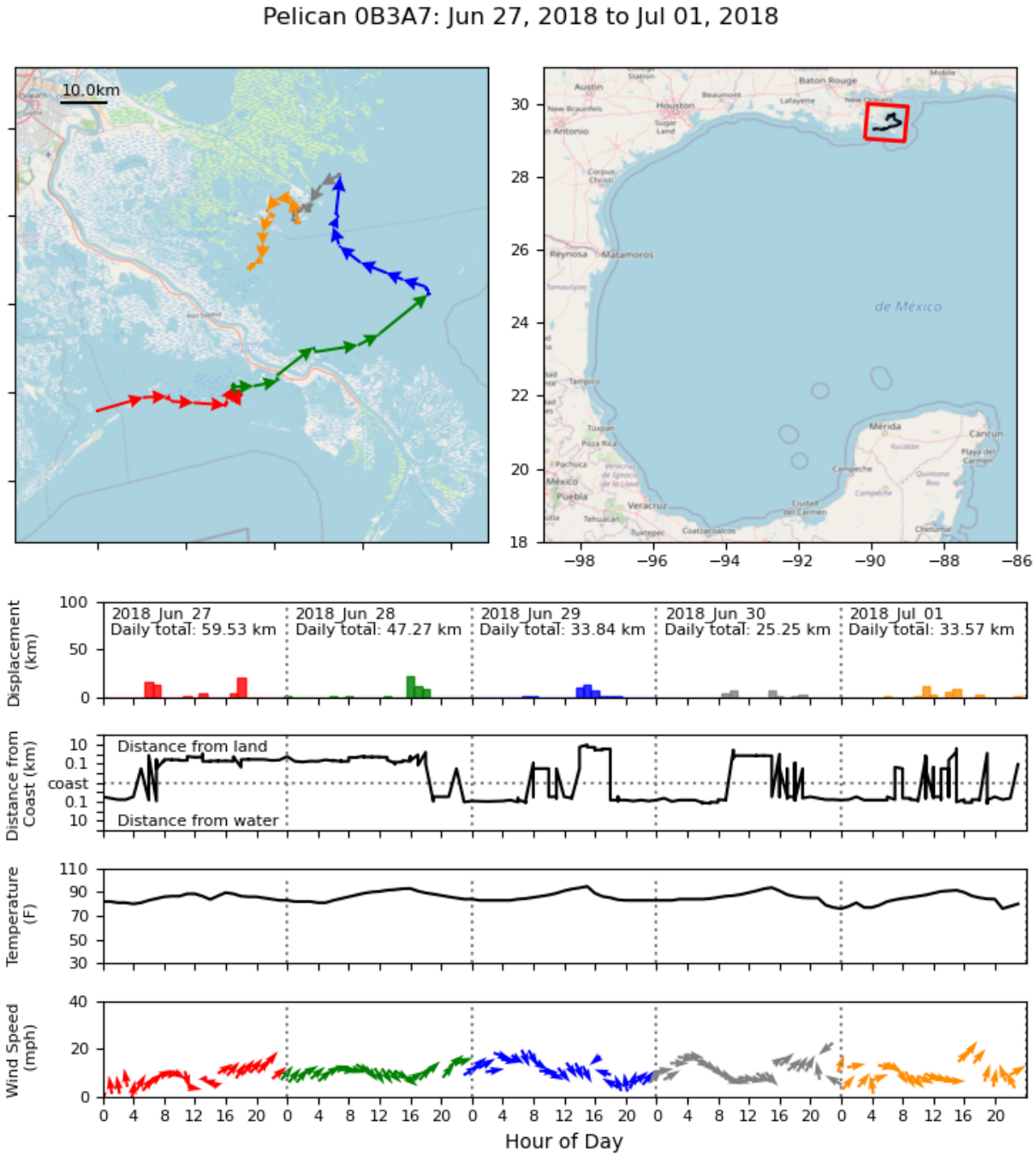

Figure 745 - Maps and graphs showing movements of 0B3A7 between 2018-06-27 and 2018-06-30 inclusive.

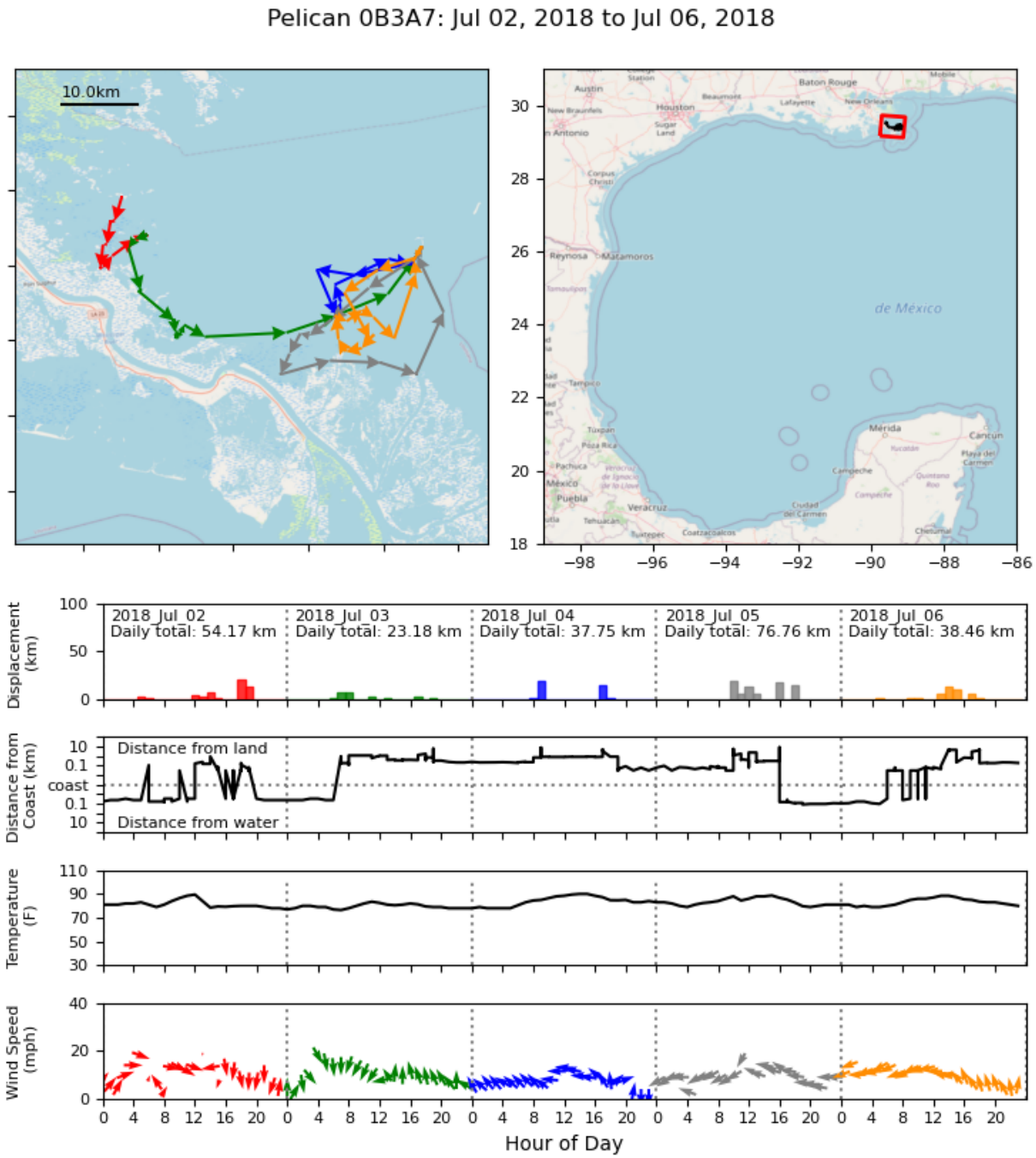

Figure 746 - Maps and graphs showing movements of 0B3A7 between 2018-07-02 and 2018-07-05 inclusive.

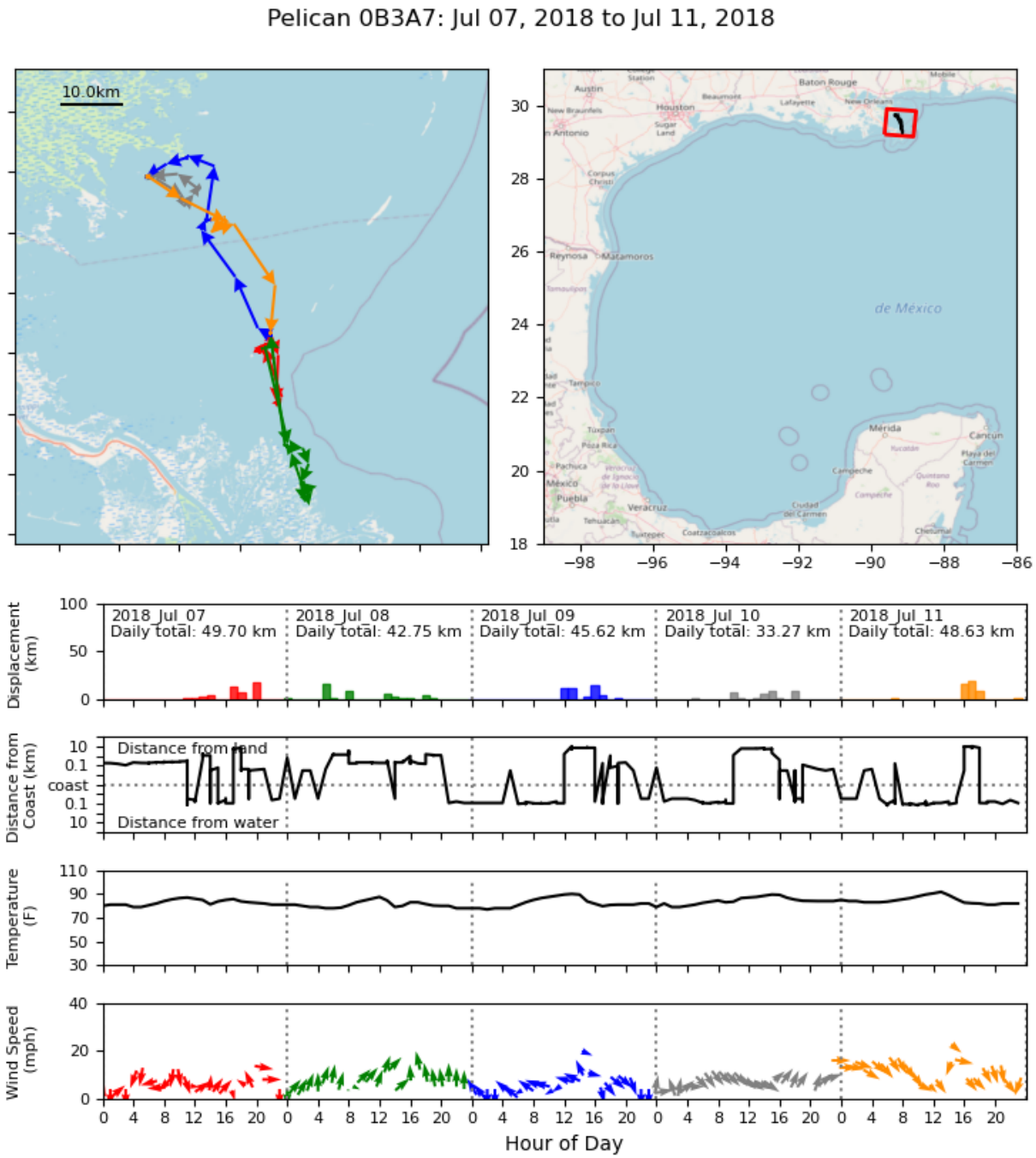

Figure 747 - Maps and graphs showing movements of 0B3A7 between 2018-07-07 and 2018-07-10 inclusive.

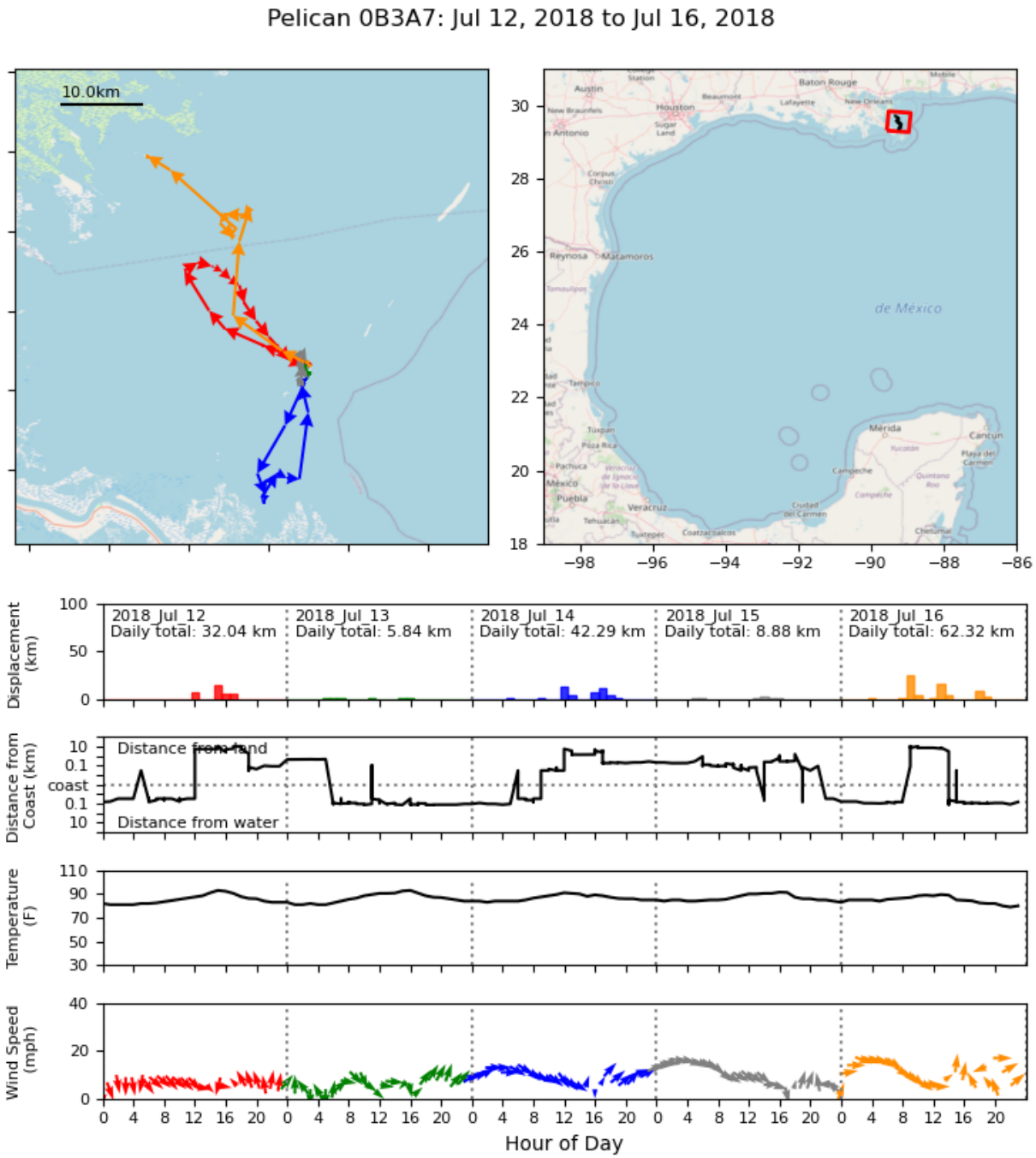

Figure 748 - Maps and graphs showing movements of 0B3A7 between 2018-07-12 and 2018-07-15 inclusive.

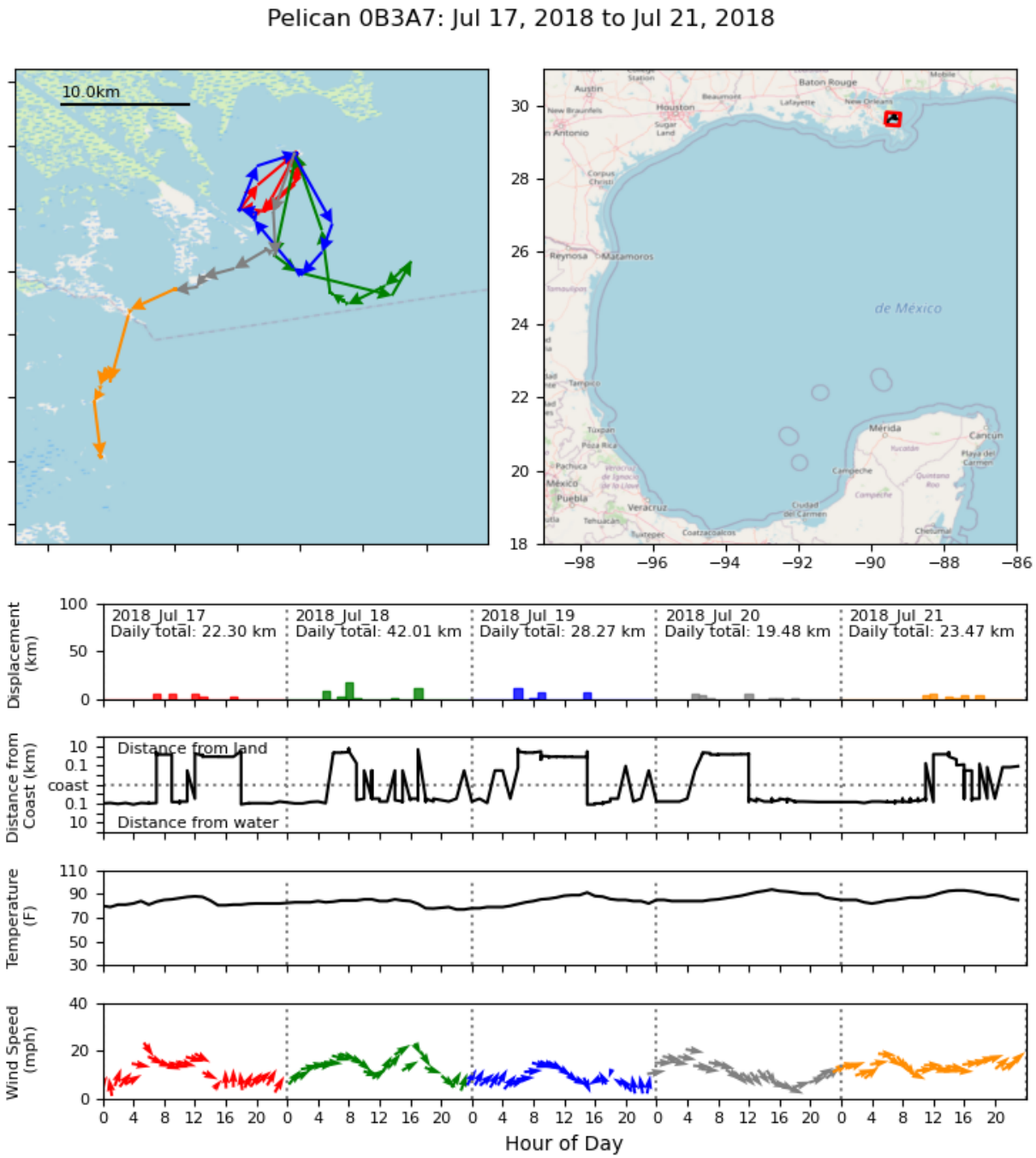

Figure 749 - Maps and graphs showing movements of 0B3A7 between 2018-07-17 and 2018-07-20 inclusive.

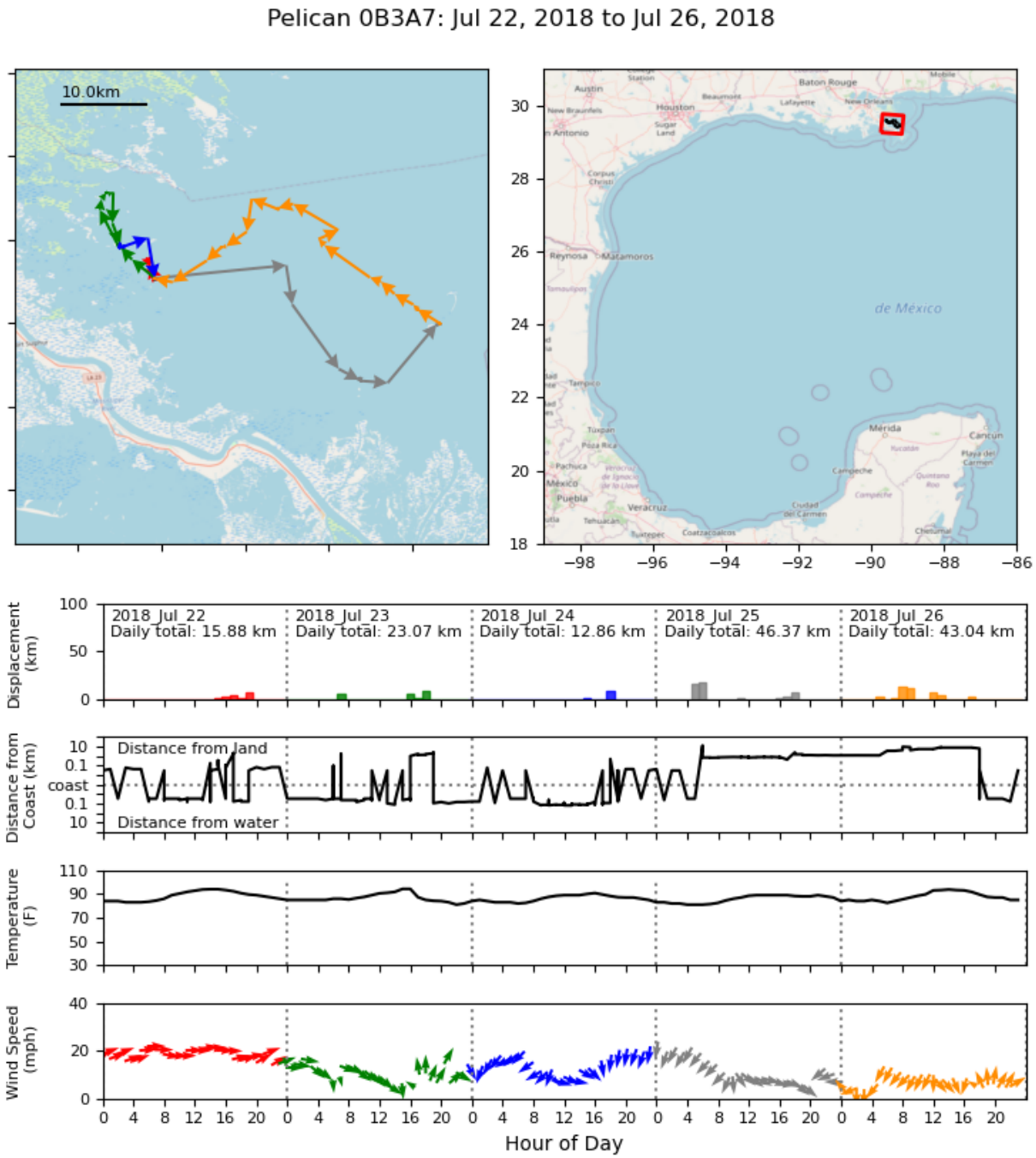

Figure 750 - Maps and graphs showing movements of 0B3A7 between 2018-07-22 and 2018-07-25 inclusive.

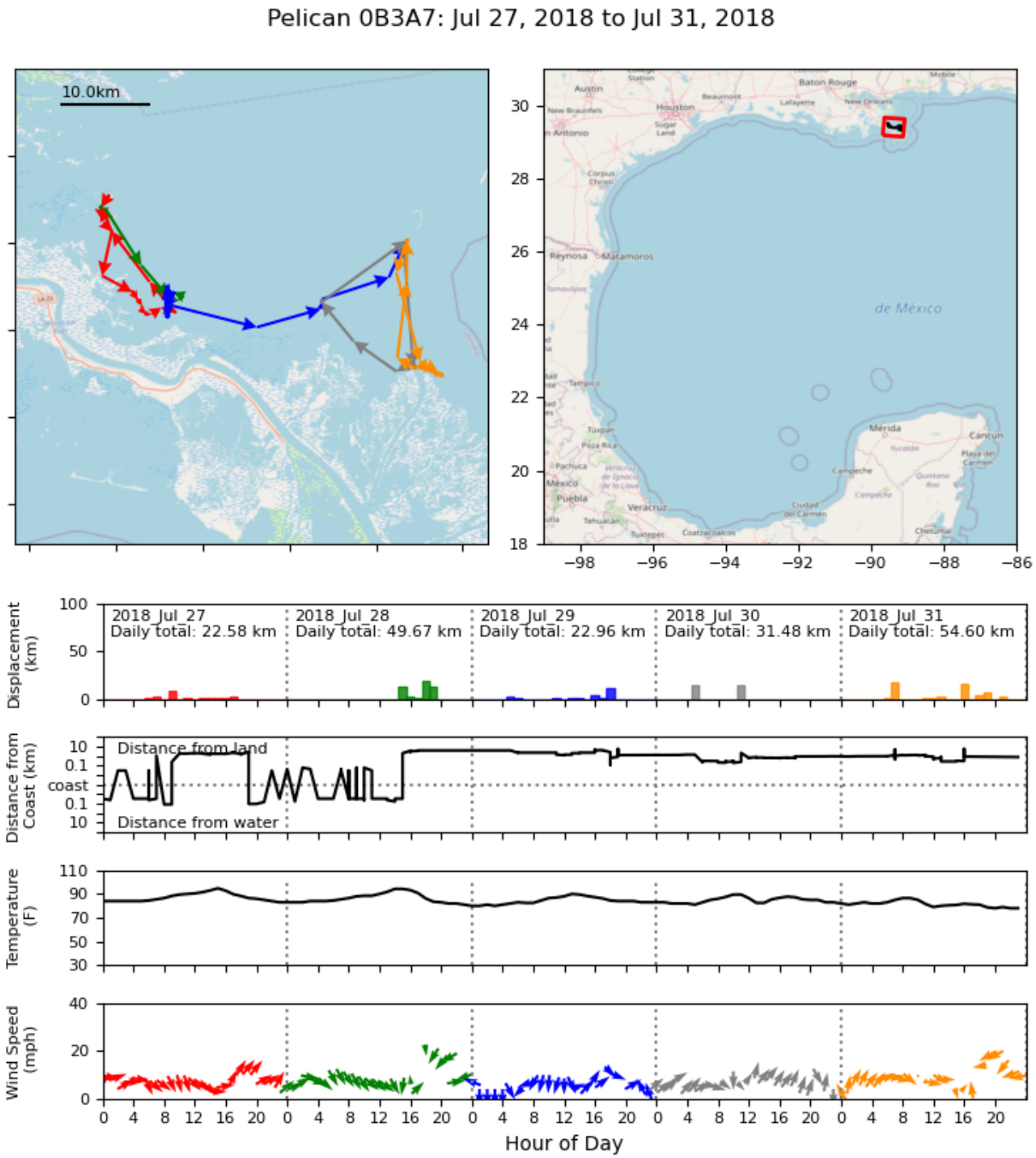

Figure 751 - Maps and graphs showing movements of 0B3A7 between 2018-07-27 and 2018-07-30 inclusive.

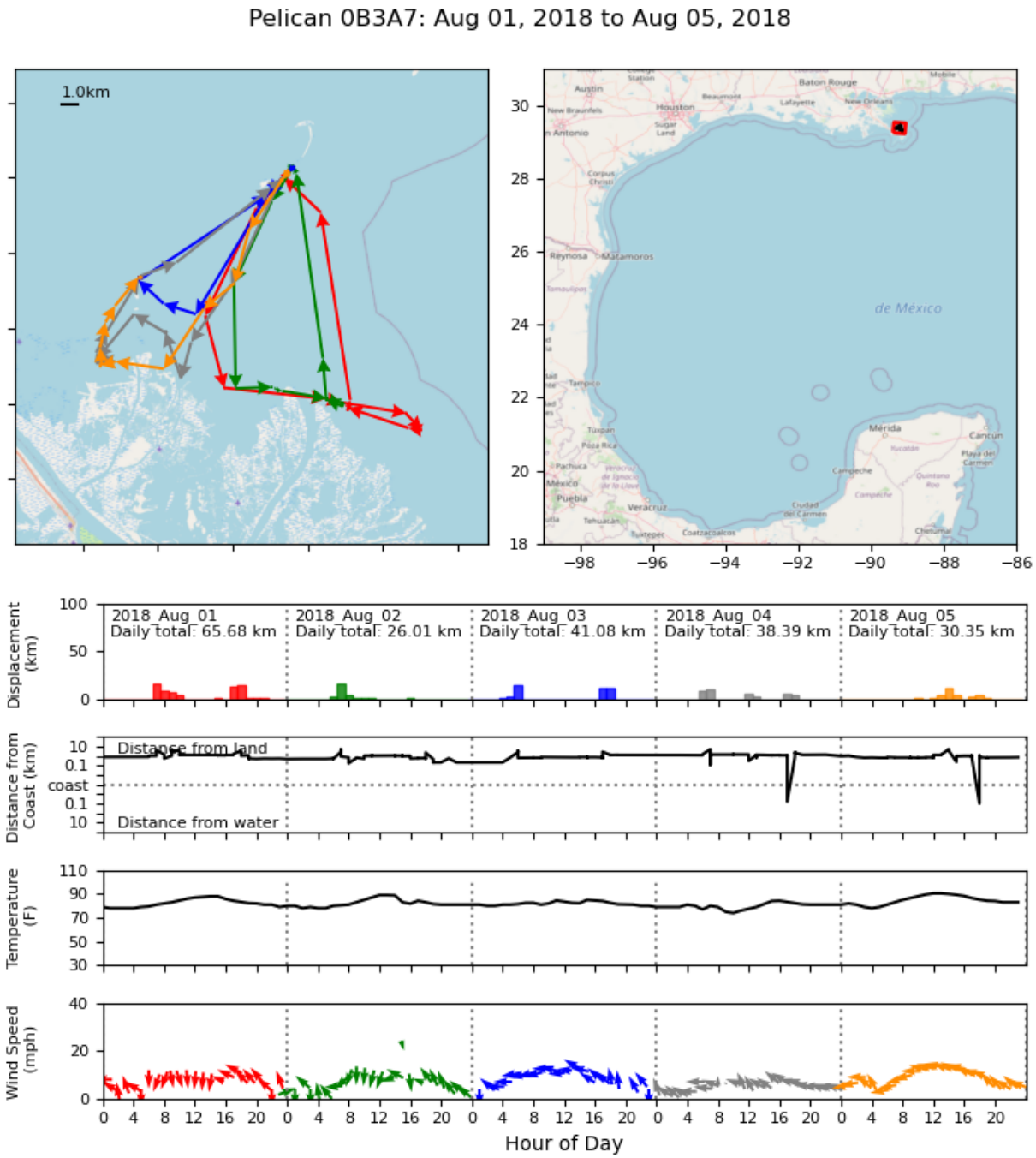

Figure 752 - Maps and graphs showing movements of 0B3A7 between 2018-08-01 and 2018-08-04 inclusive.

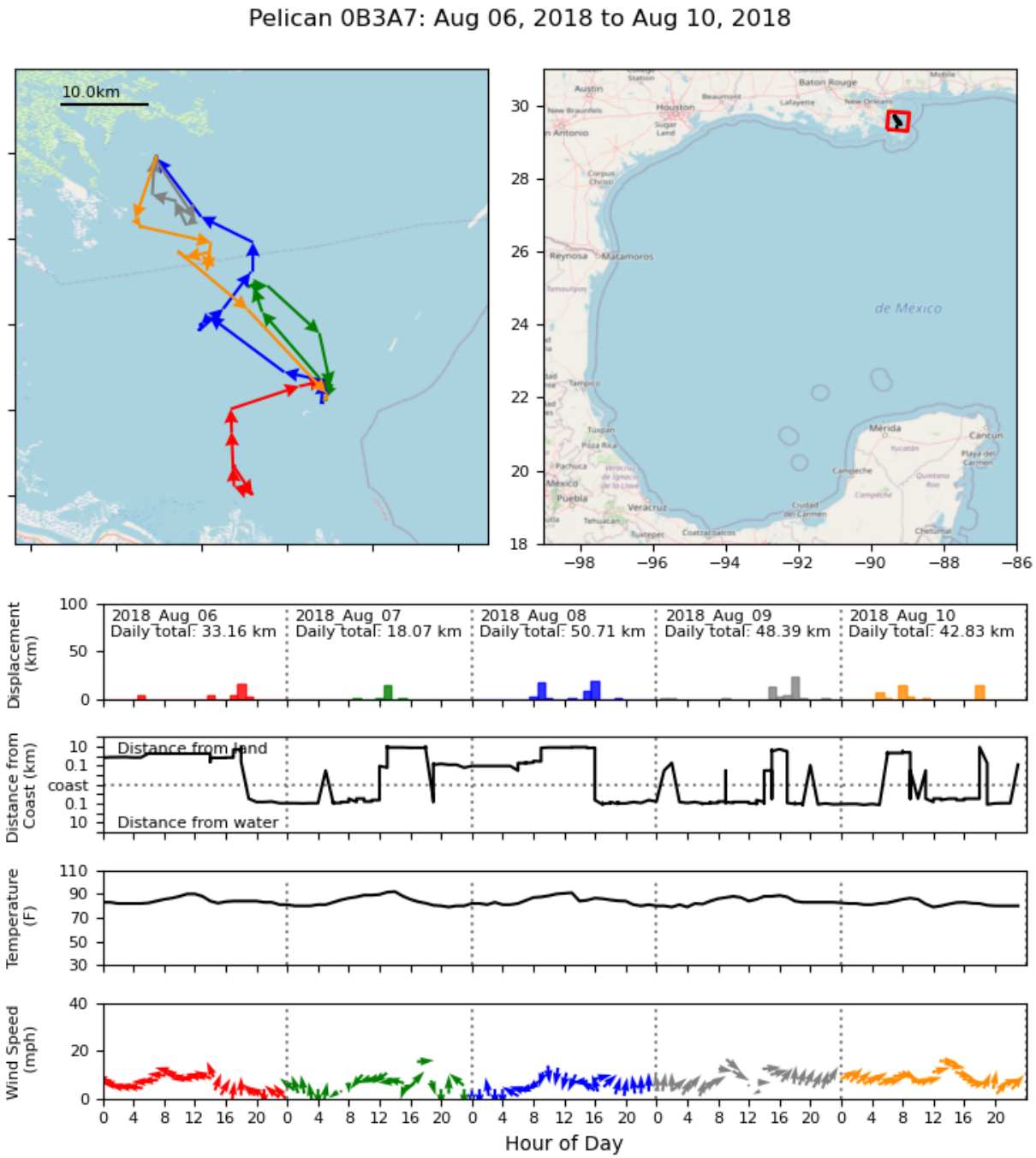

Figure 753 - Maps and graphs showing movements of 0B3A7 between 2018-08-06 and 2018-08-09 inclusive.

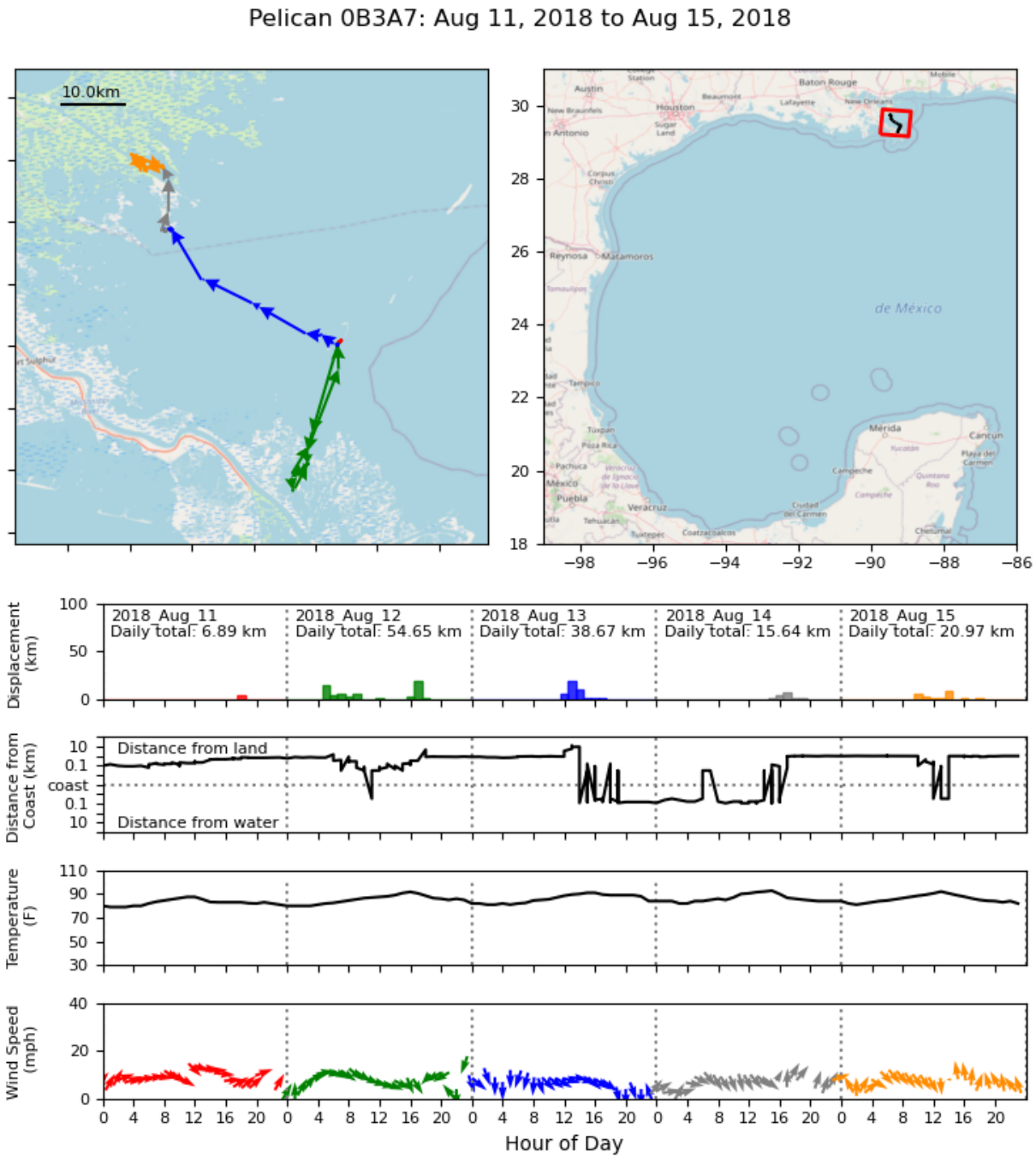

Figure 754 - Maps and graphs showing movements of 0B3A7 between 2018-08-11 and 2018-08-14 inclusive.

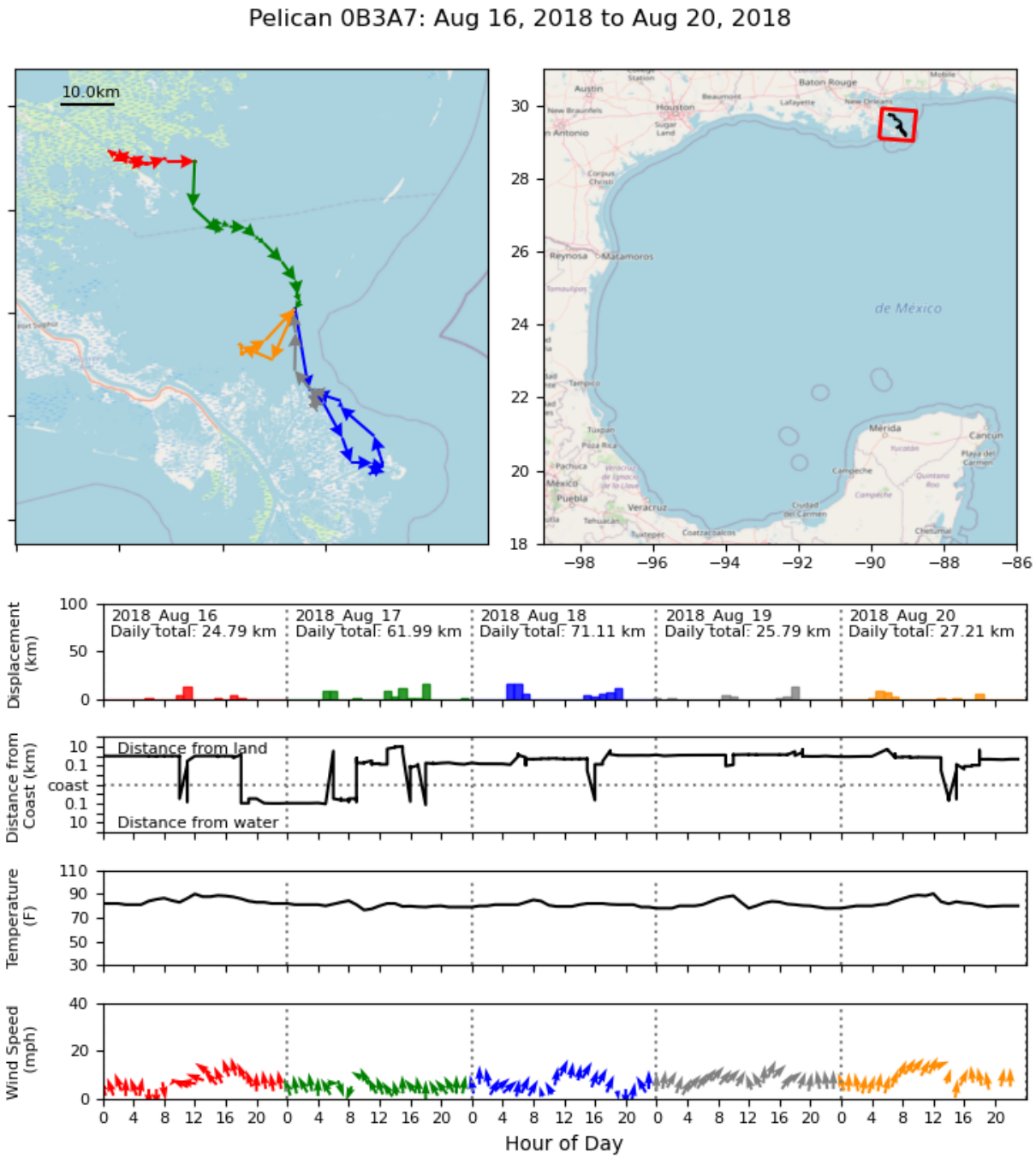

Figure 755 - Maps and graphs showing movements of 0B3A7 between 2018-08-16 and 2018-08-19 inclusive.

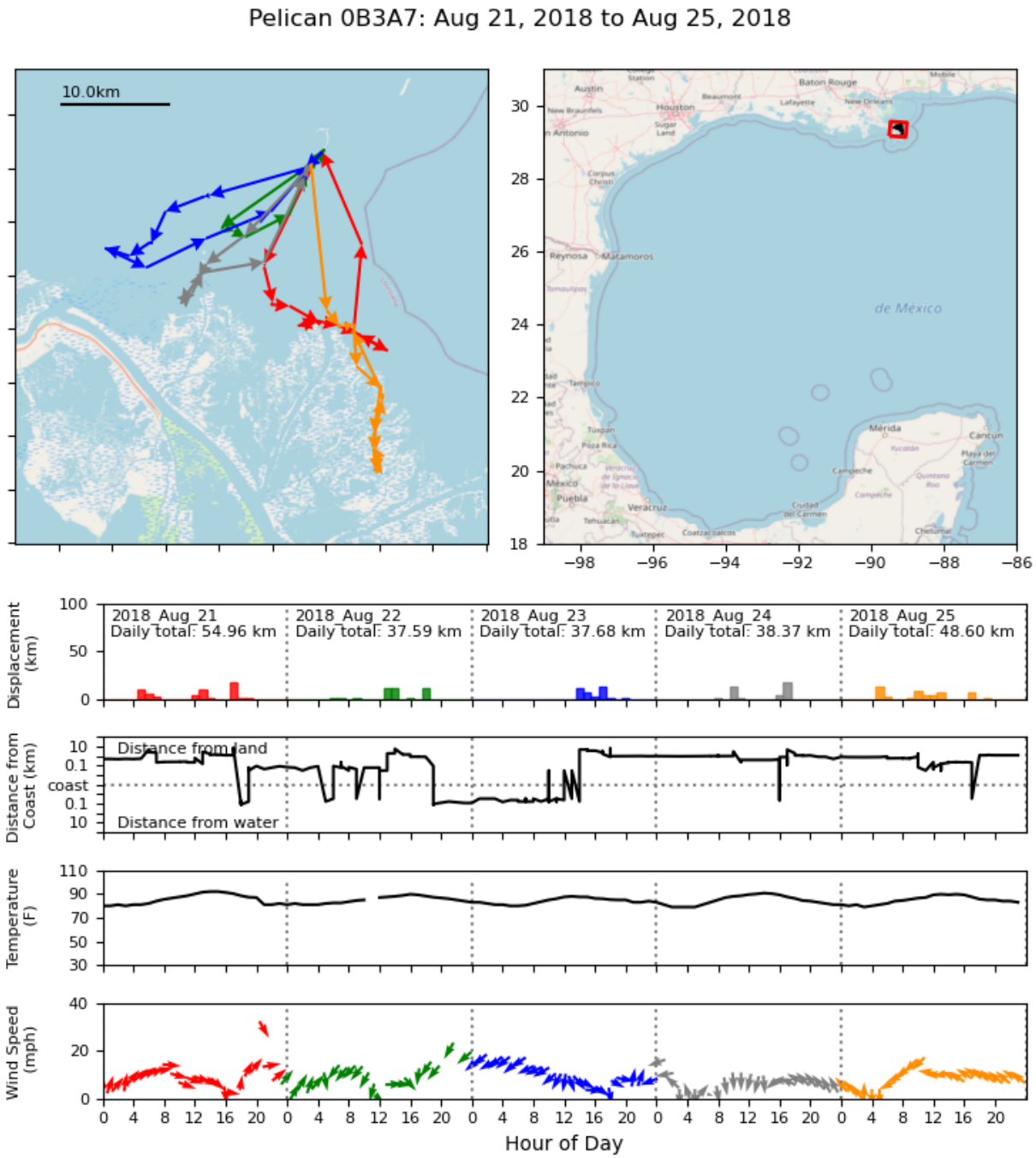

Figure 756 - Maps and graphs showing movements of 0B3A7 between 2018-08-21 and 2018-08-24 inclusive.

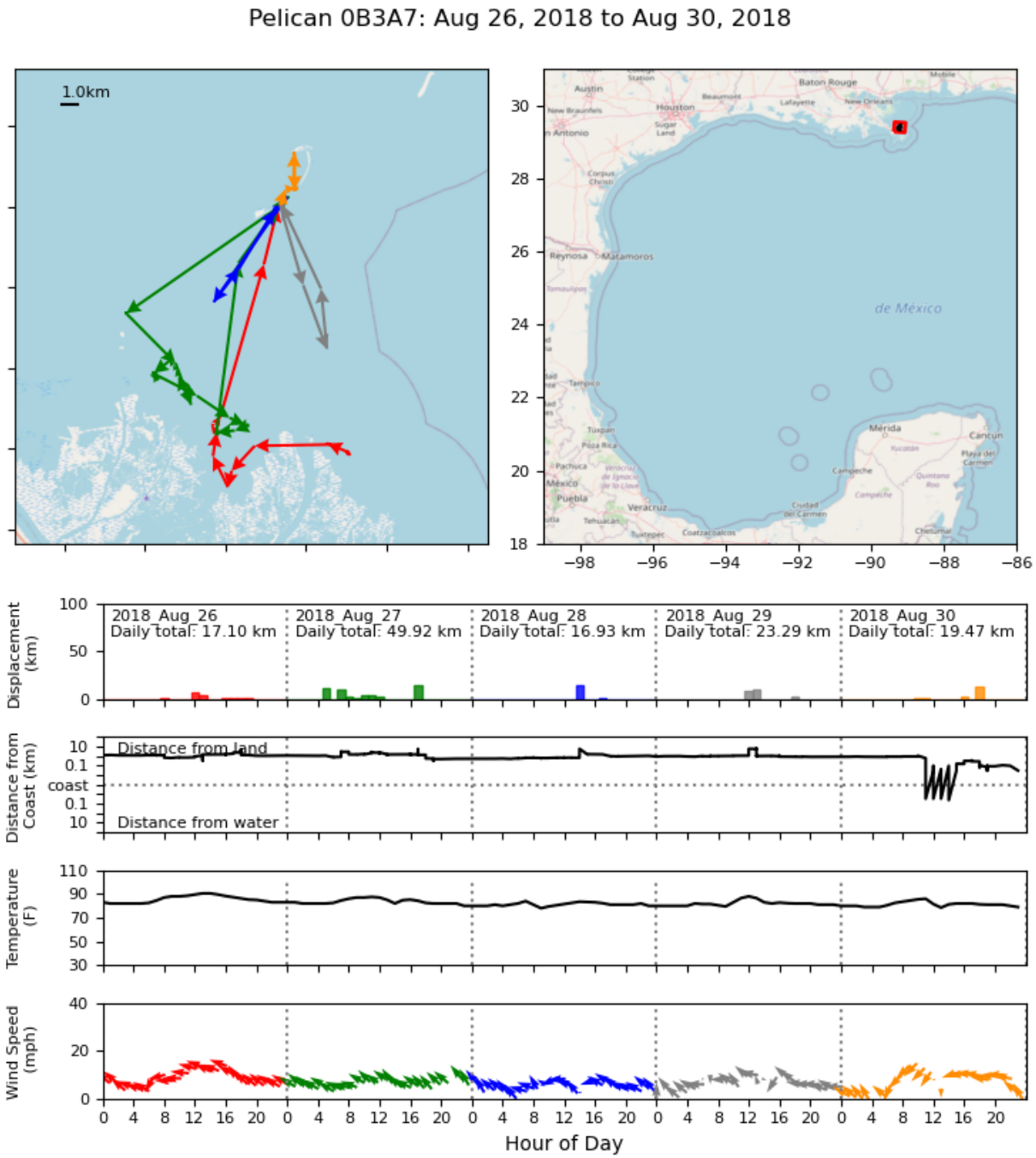

Figure 757 - Maps and graphs showing movements of 0B3A7 between 2018-08-26 and 2018-08-29 inclusive.

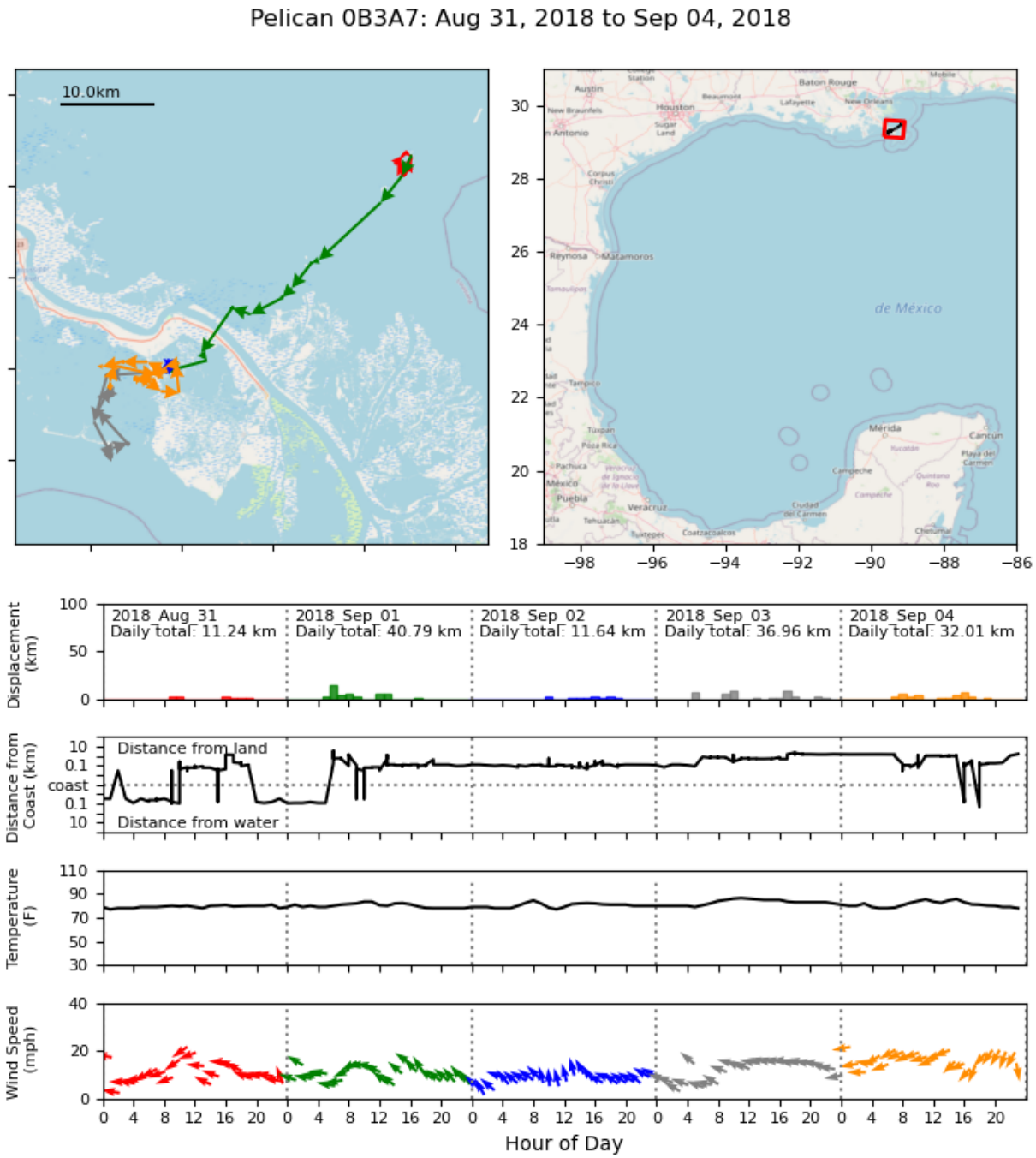

Figure 758 - Maps and graphs showing movements of 0B3A7 between 2018-08-31 and 2018-09-03 inclusive.

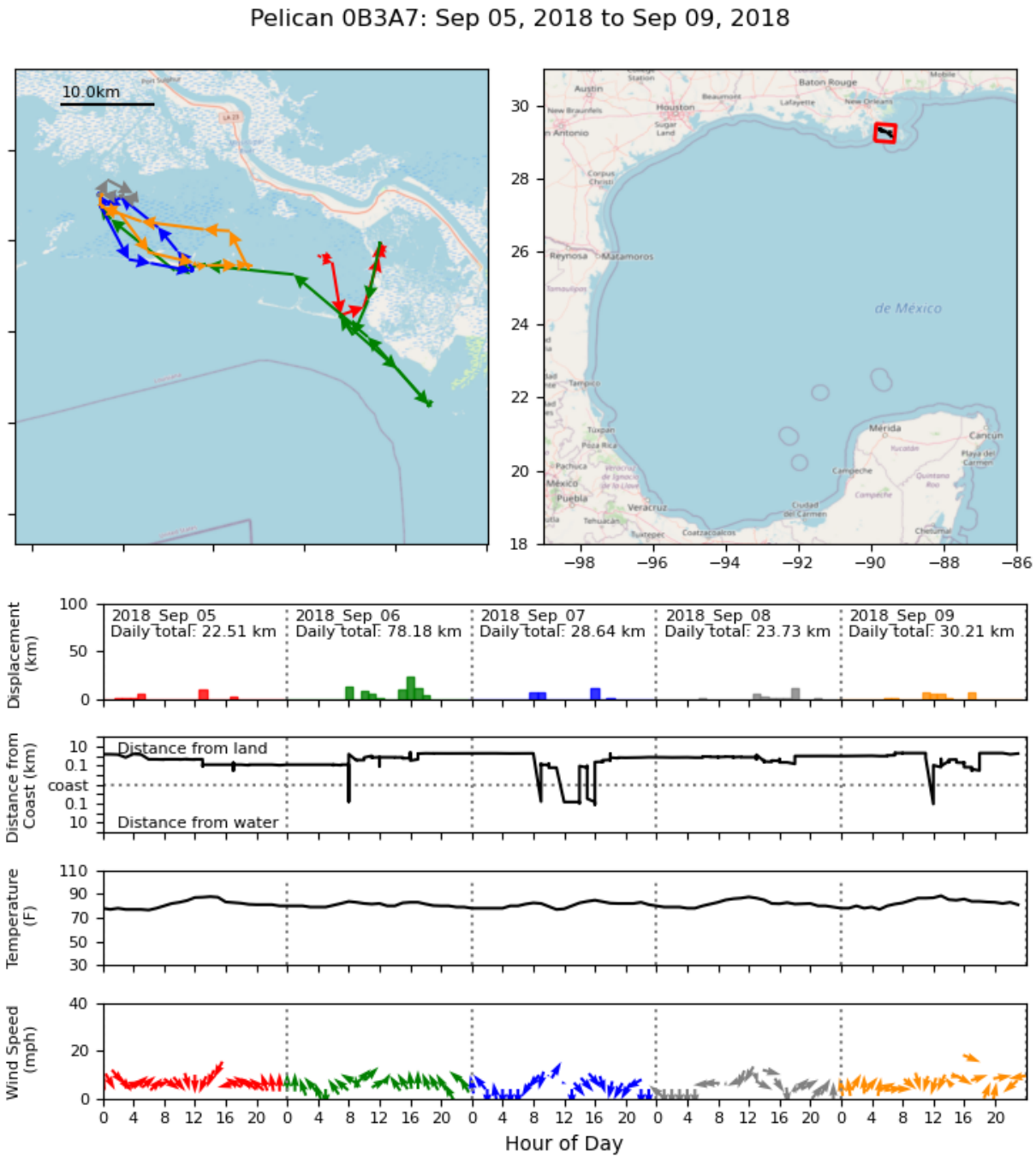

Figure 759 - Maps and graphs showing movements of 0B3A7 between 2018-09-05 and 2018-09-08 inclusive.

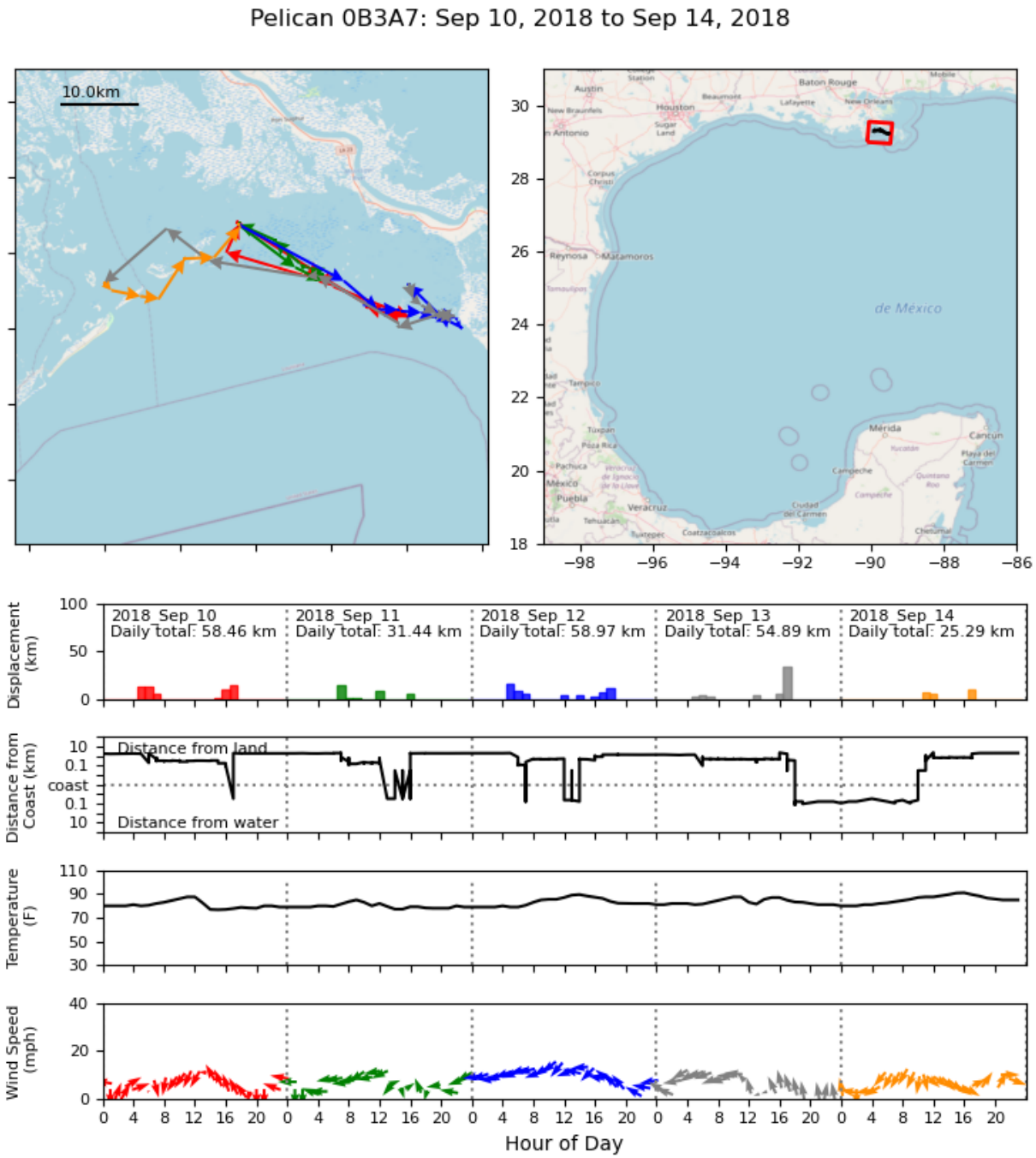

Figure 760 - Maps and graphs showing movements of 0B3A7 between 2018-09-10 and 2018-09-13 inclusive.

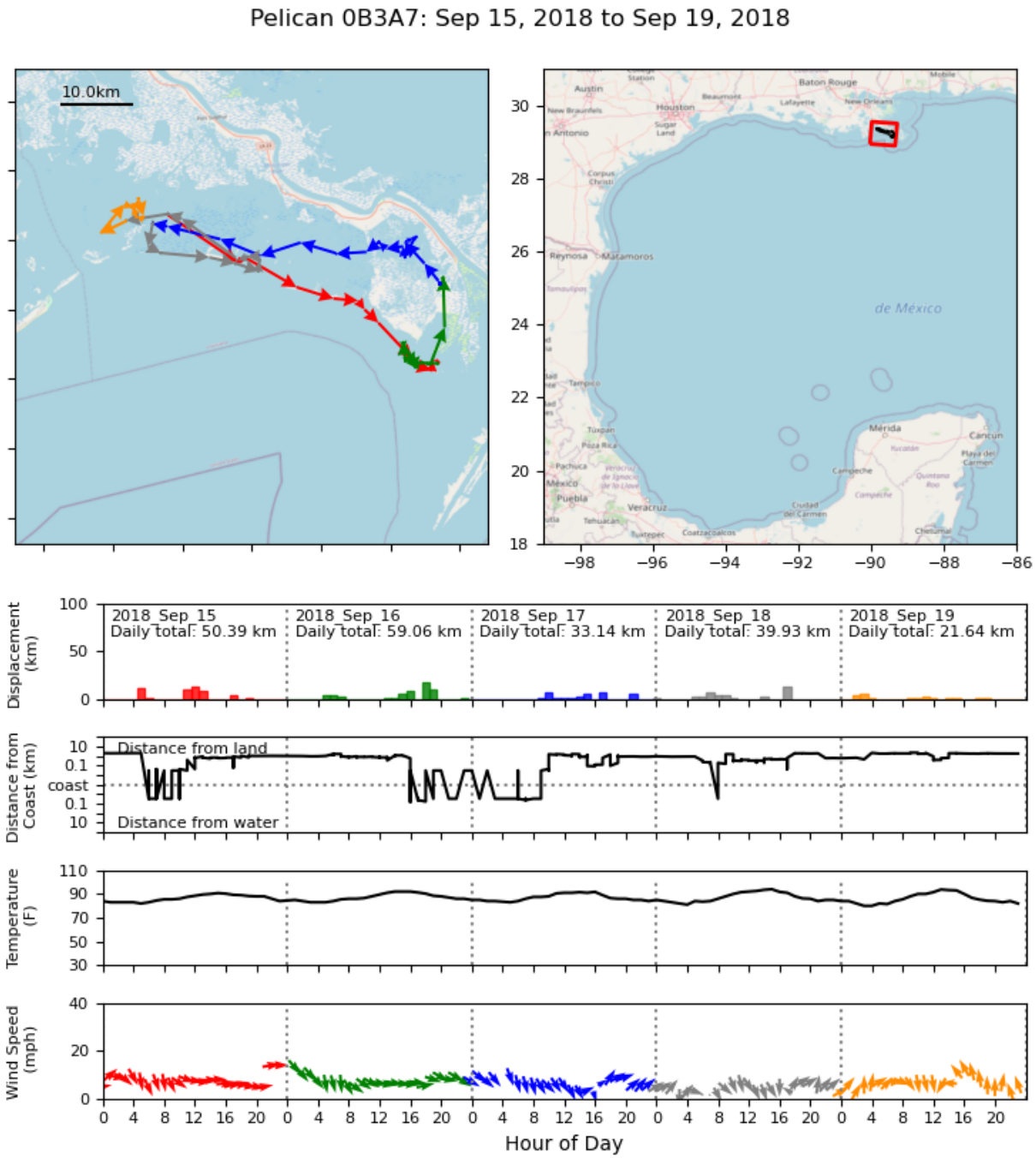

Figure 761 - Maps and graphs showing movements of 0B3A7 between 2018-09-15 and 2018-09-18 inclusive.

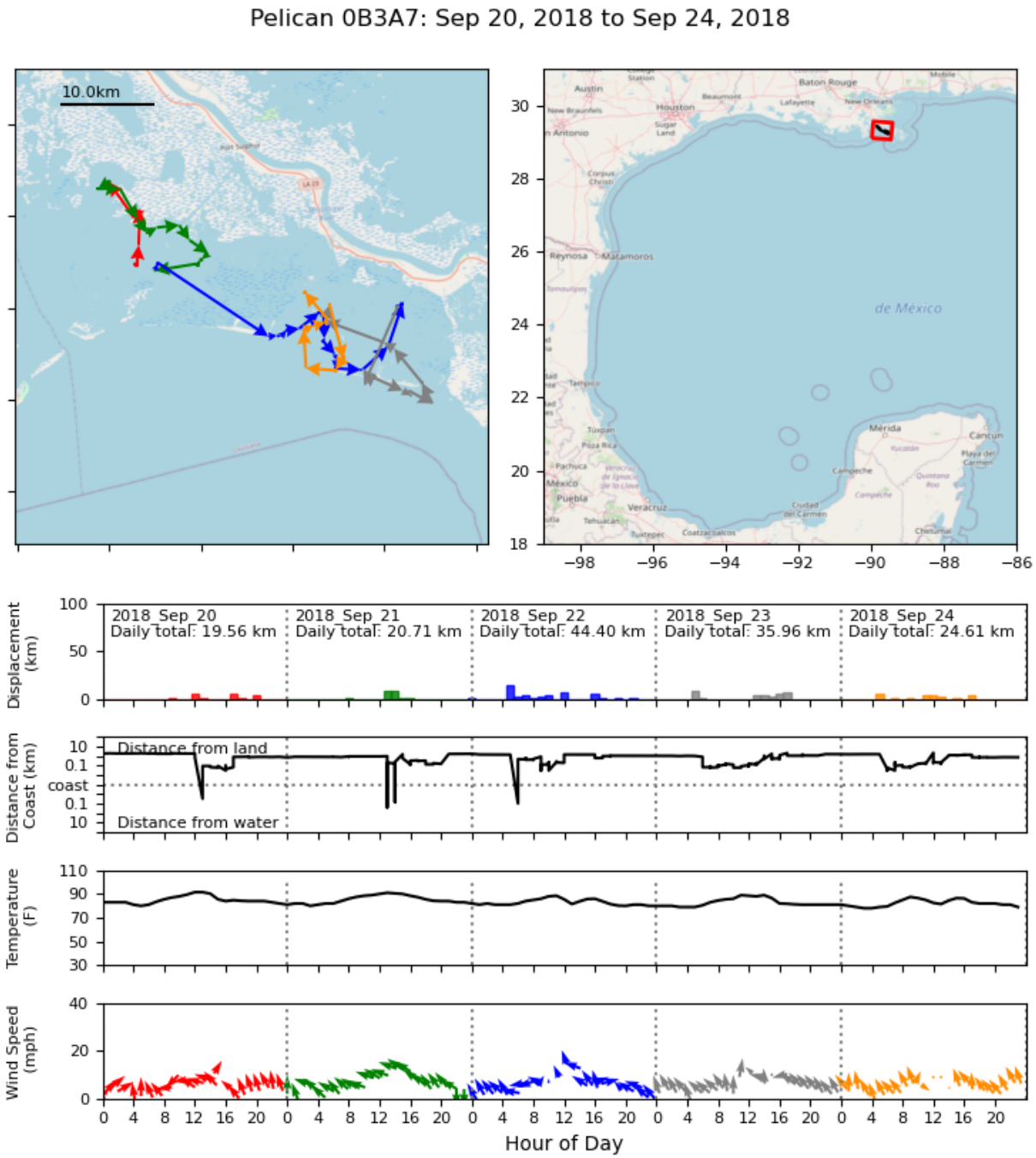

Figure 762 - Maps and graphs showing movements of 0B3A7 between 2018-09-20 and 2018-09-23 inclusive.

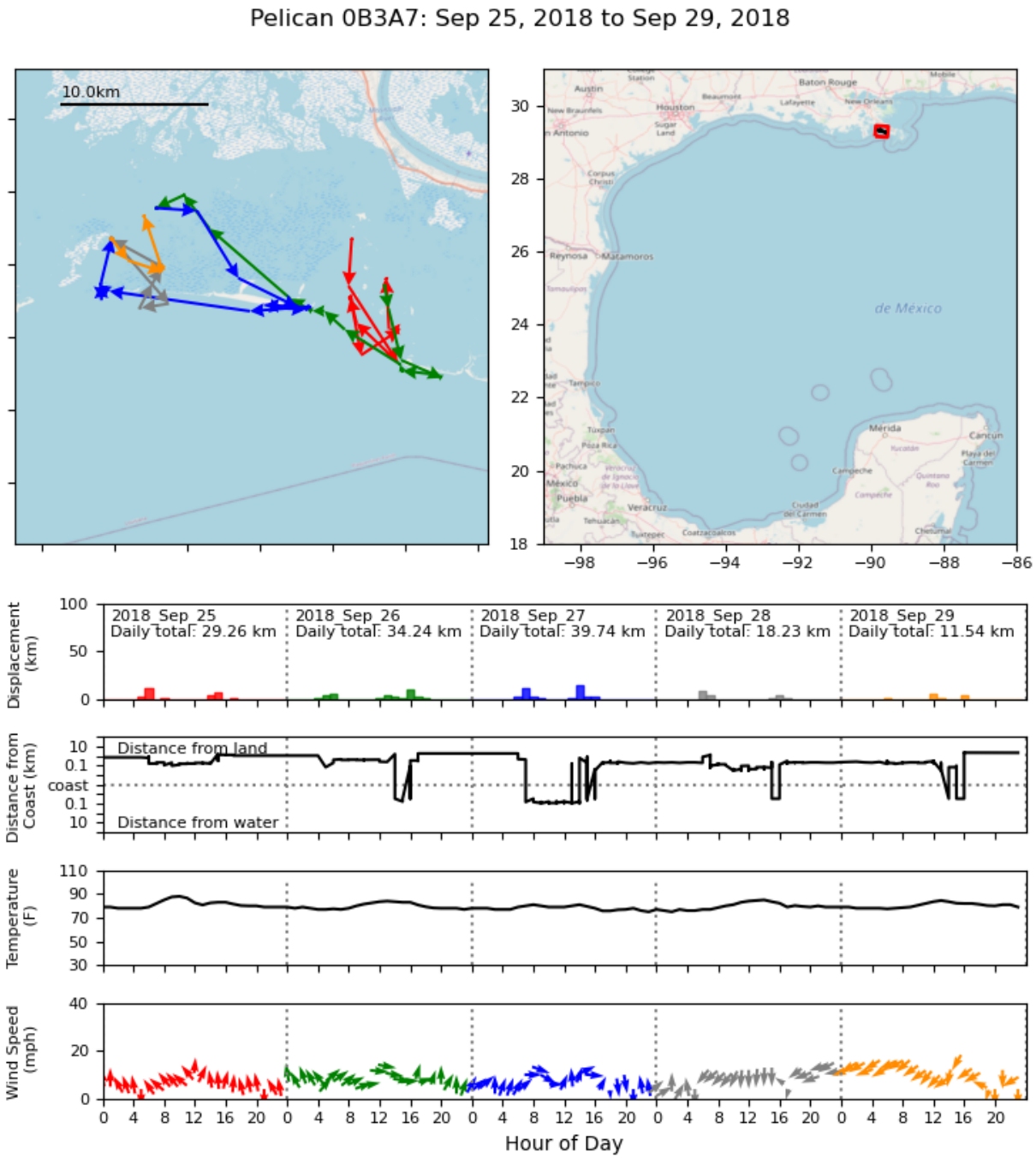

Figure 763 - Maps and graphs showing movements of 0B3A7 between 2018-09-25 and 2018-09-28 inclusive.

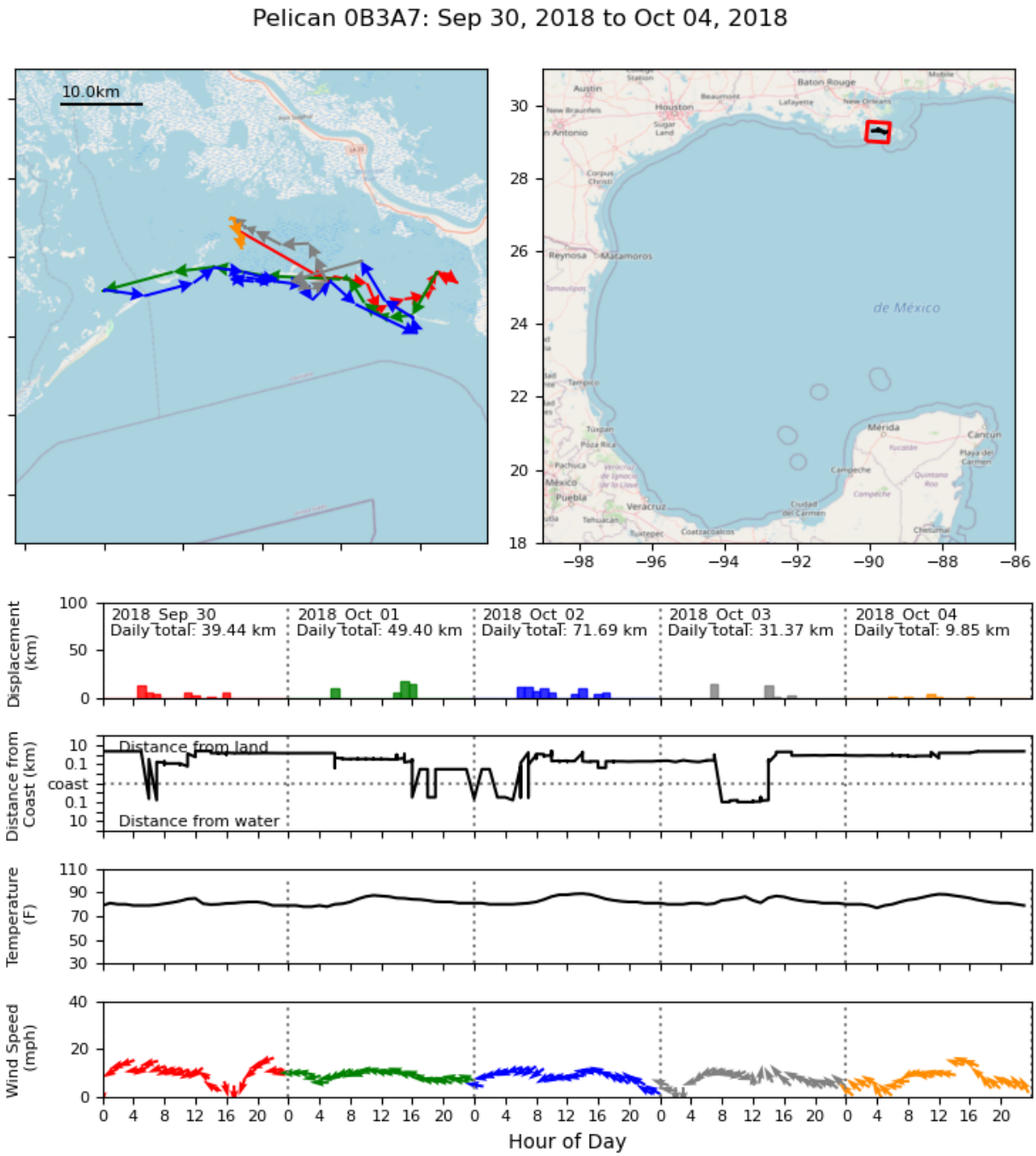

Figure 764 - Maps and graphs showing movements of 0B3A7 between 2018-09-30 and 2018-10-03 inclusive.

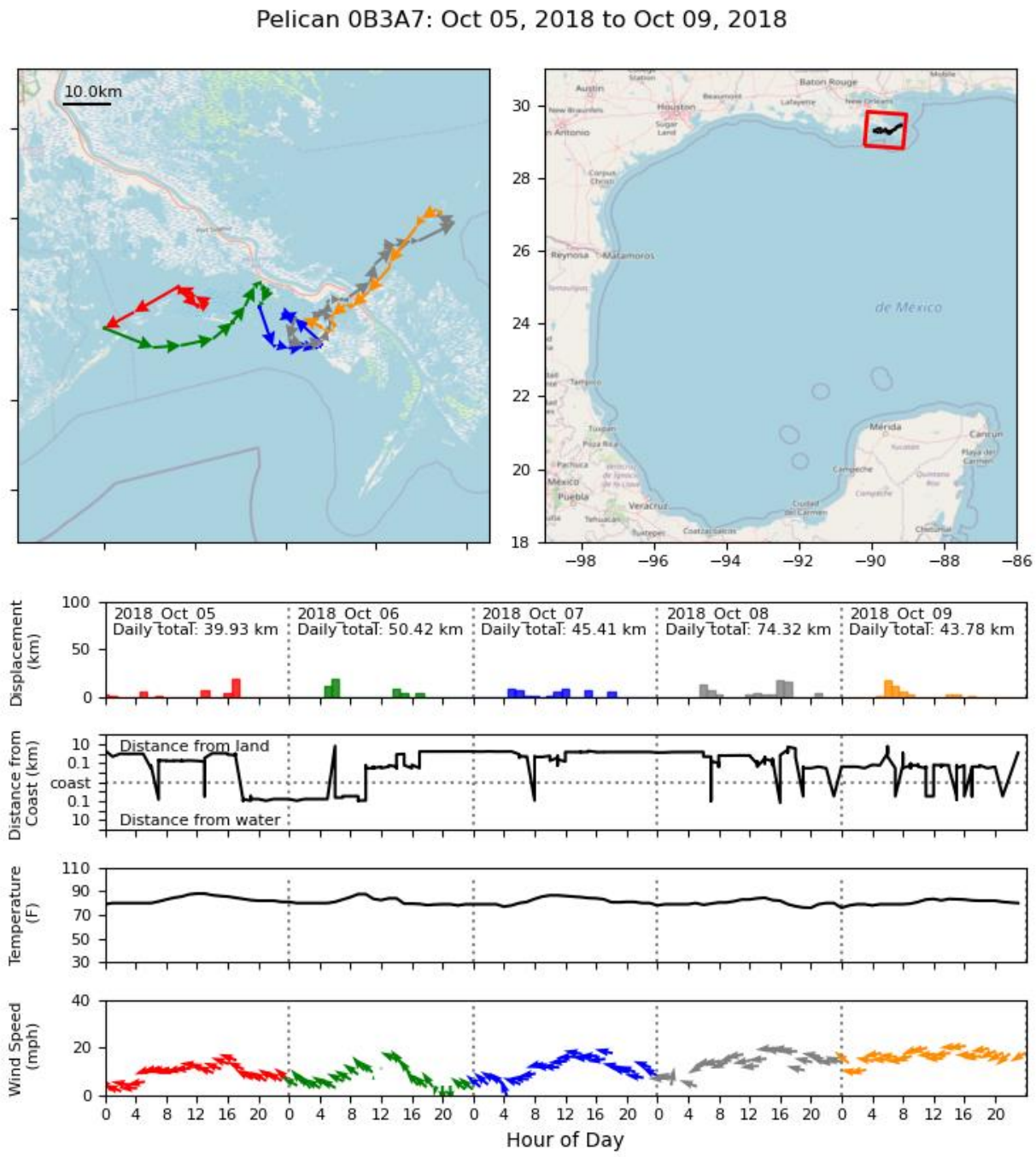

Figure 765 - Maps and graphs showing movements of 0B3A7 between 2018-10-05 and 2018-10-08 inclusive.

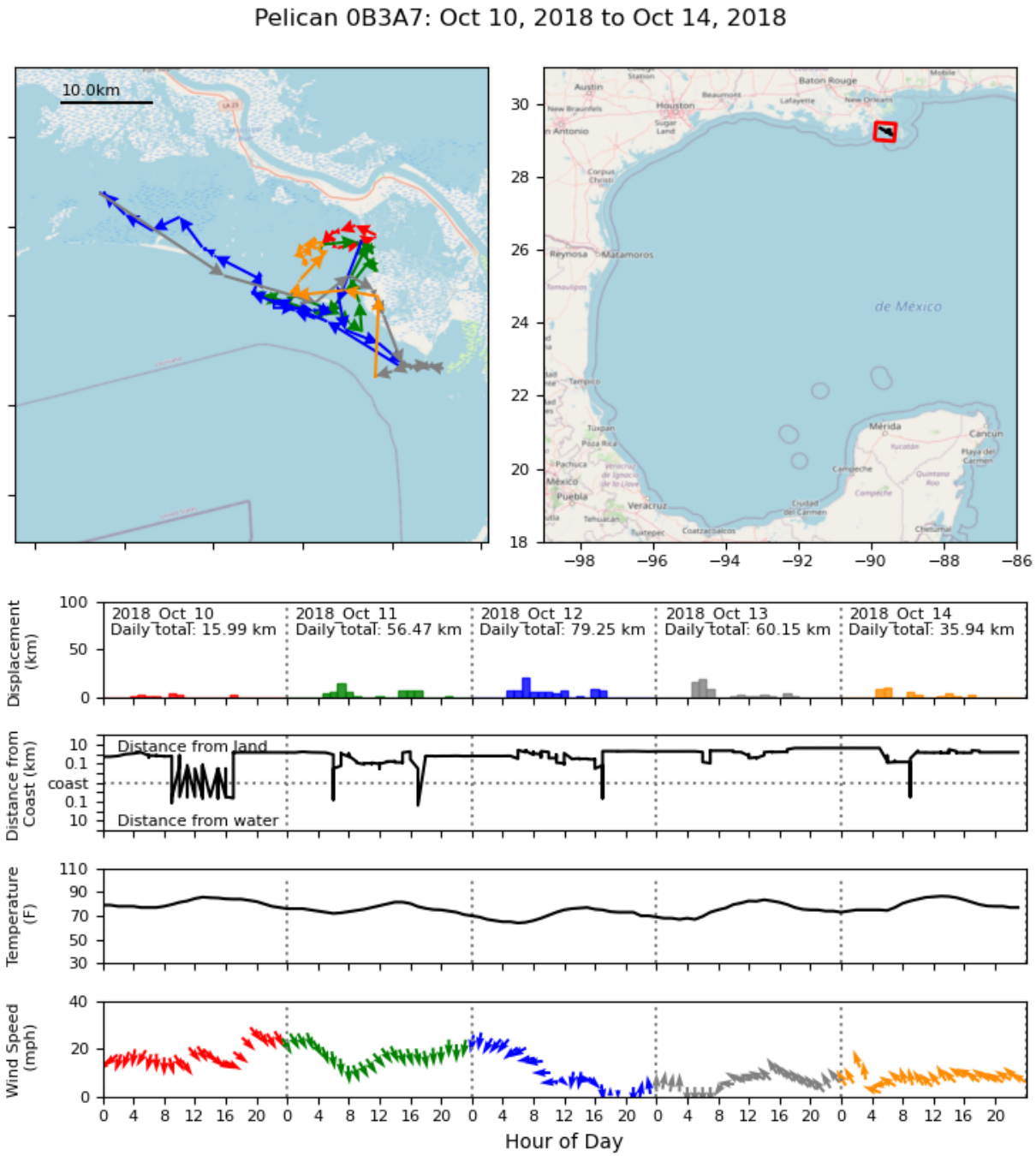

Figure 766 - Maps and graphs showing movements of 0B3A7 between 2018-10-10 and 2018-10-13 inclusive.

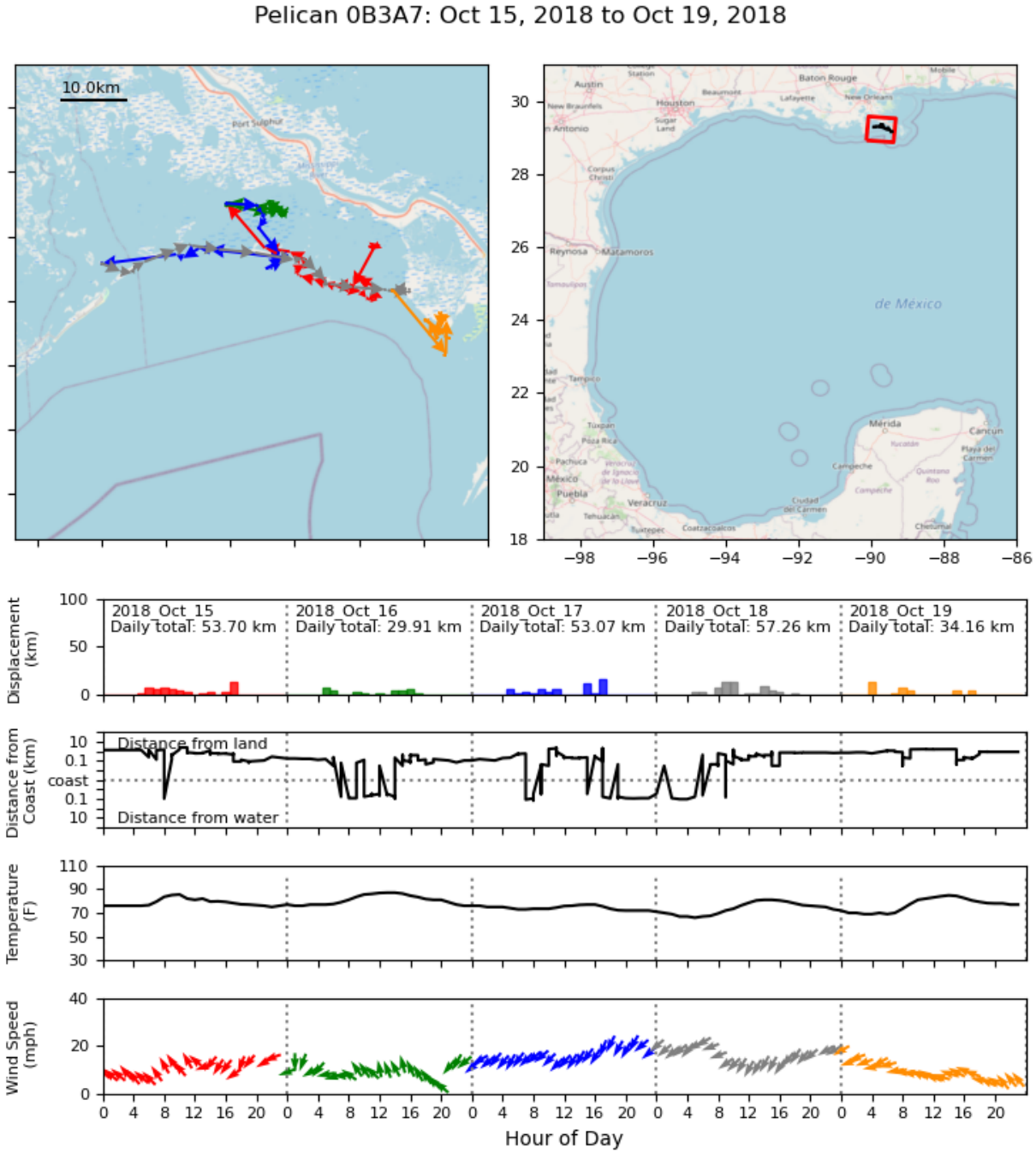

Figure 767 - Maps and graphs showing movements of 0B3A7 between 2018-10-15 and 2018-10-18 inclusive.

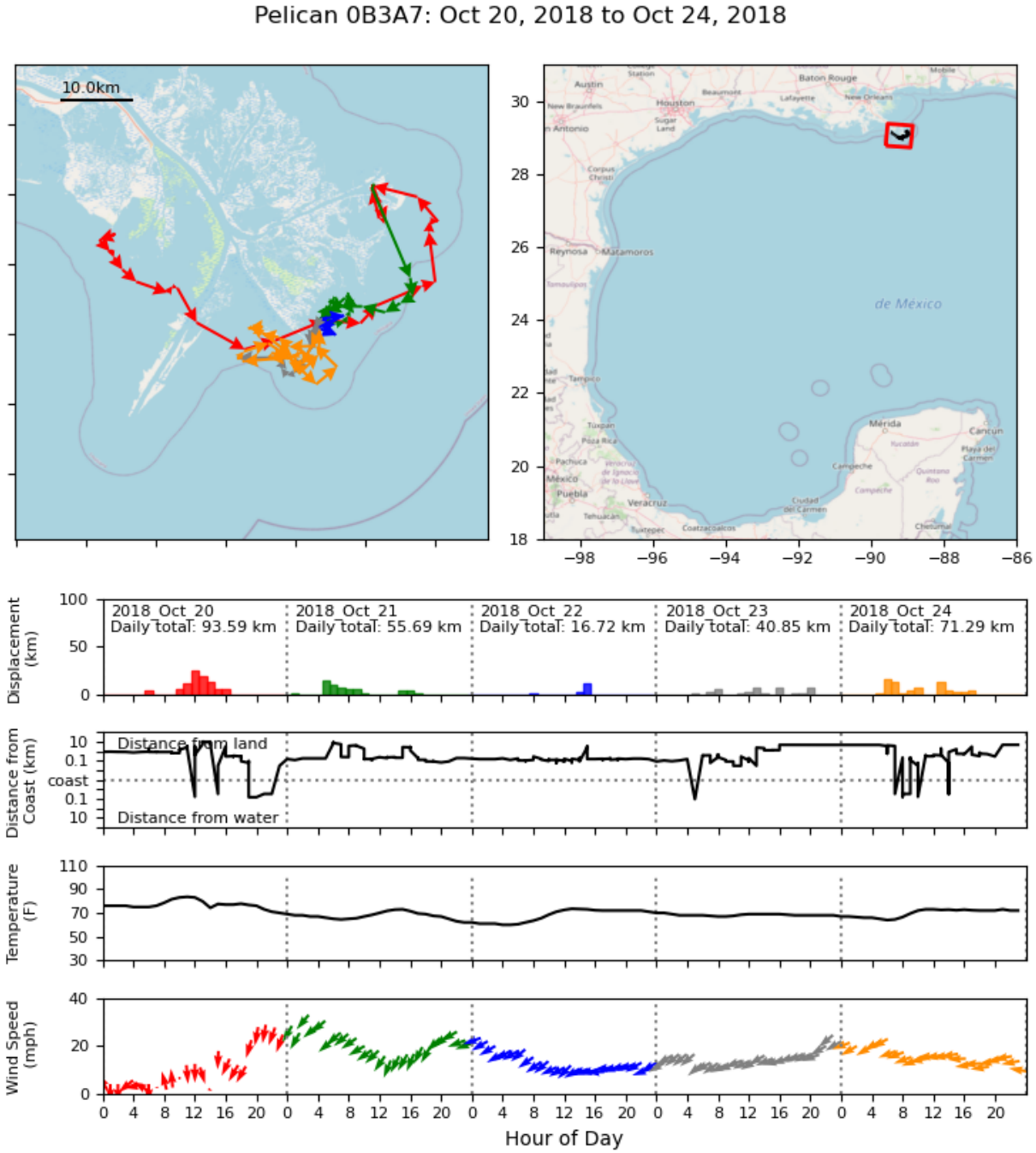

Figure 768 - Maps and graphs showing movements of 0B3A7 between 2018-10-20 and 2018-10-23 inclusive.

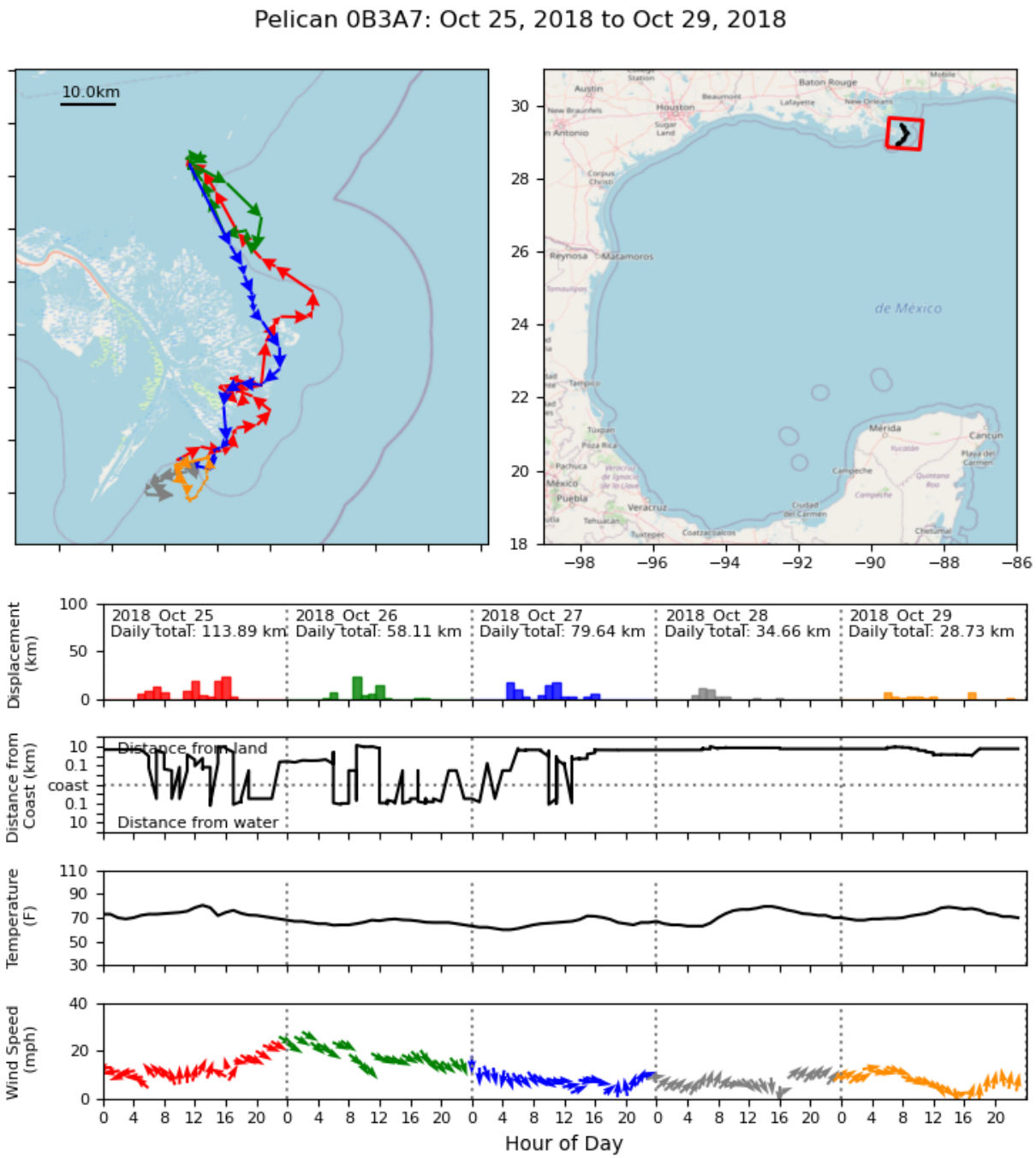

Figure 769 - Maps and graphs showing movements of 0B3A7 between 2018-10-25 and 2018-10-28 inclusive.

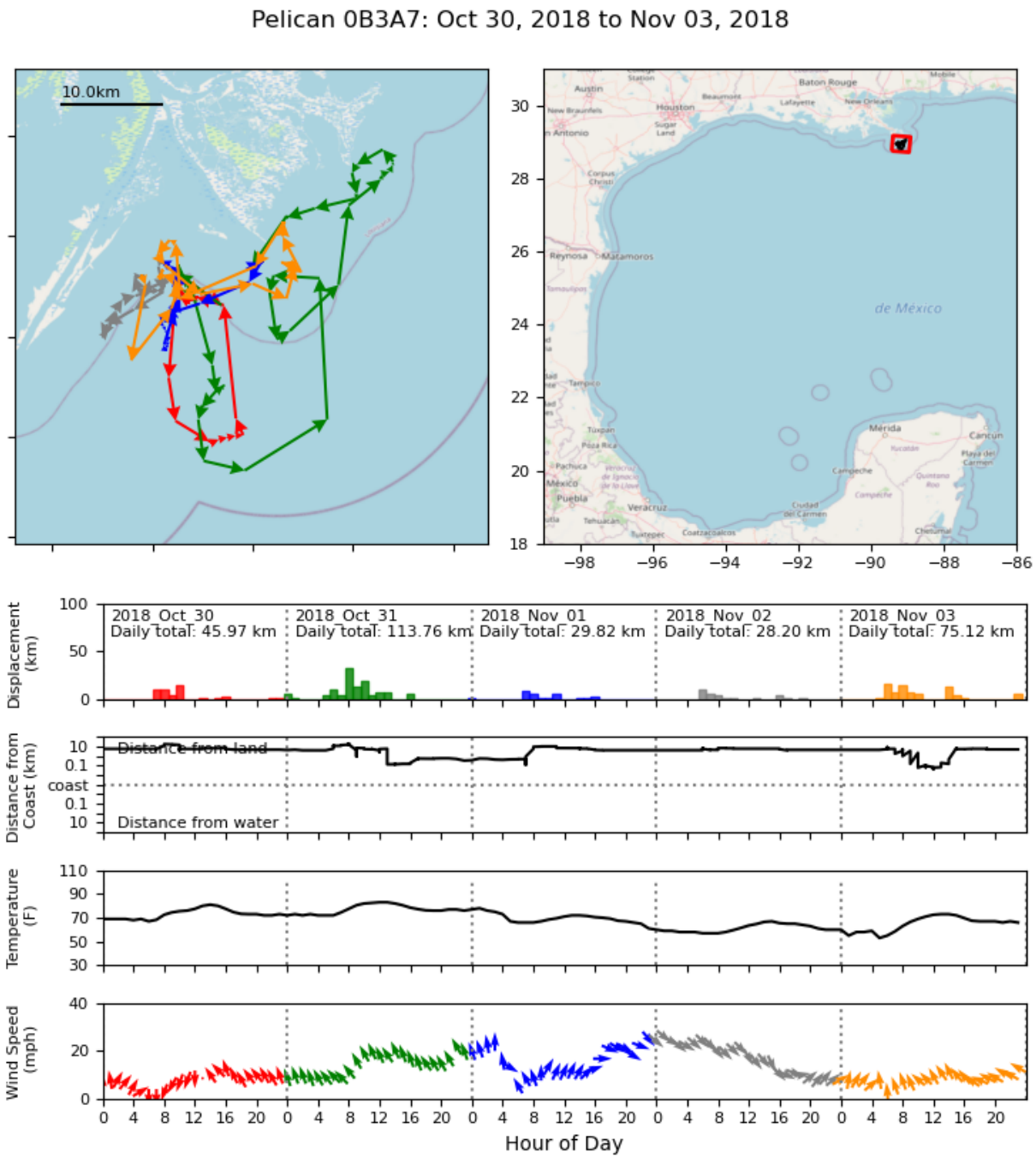

Figure 770 - Maps and graphs showing movements of 0B3A7 between 2018-10-30 and 2018-11-02 inclusive.

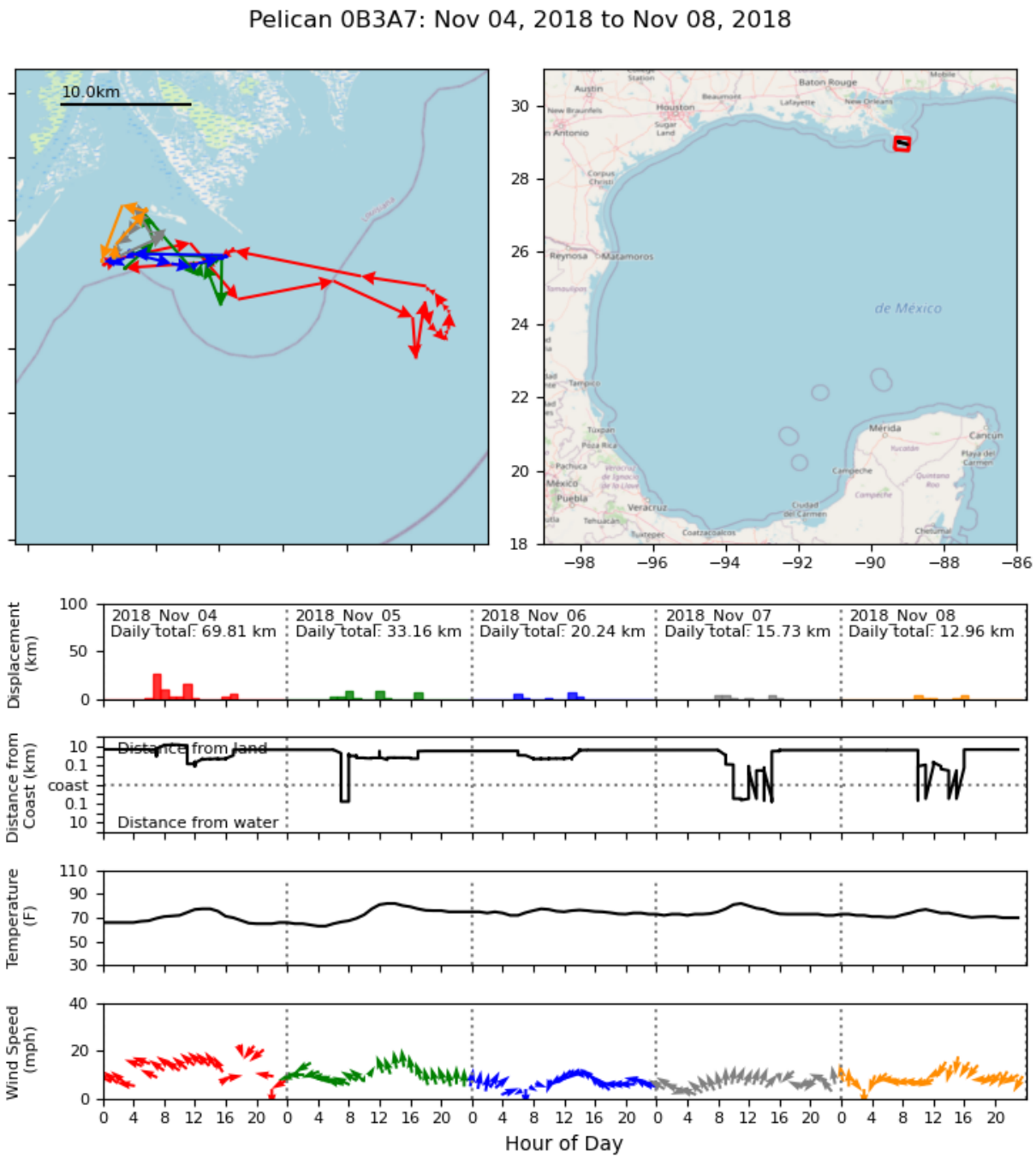

Figure 771 - Maps and graphs showing movements of 0B3A7 between 2018-11-04 and 2018-11-07 inclusive.

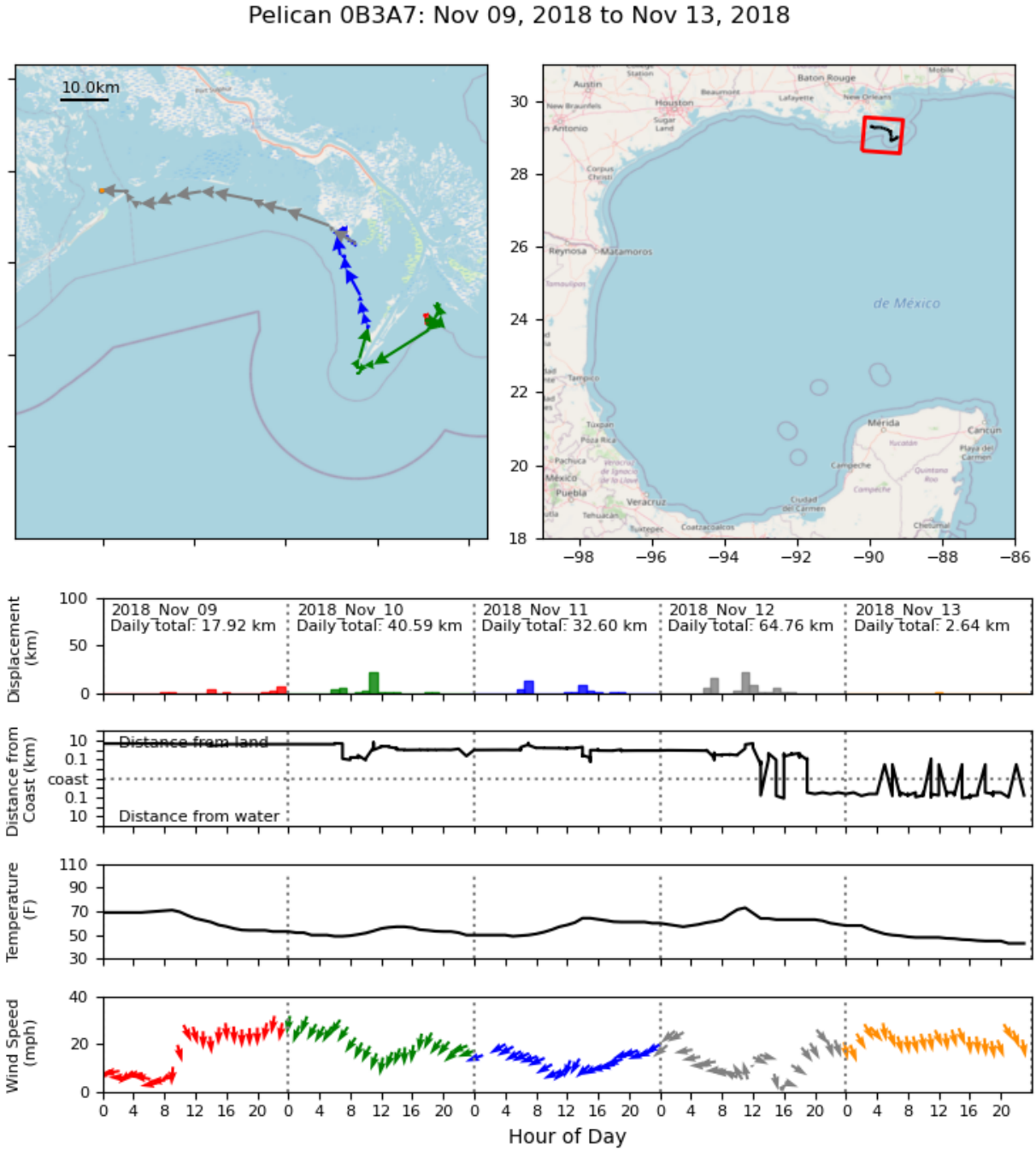

Figure 772 - Maps and graphs showing movements of 0B3A7 between 2018-11-09 and 2018-11-12 inclusive.

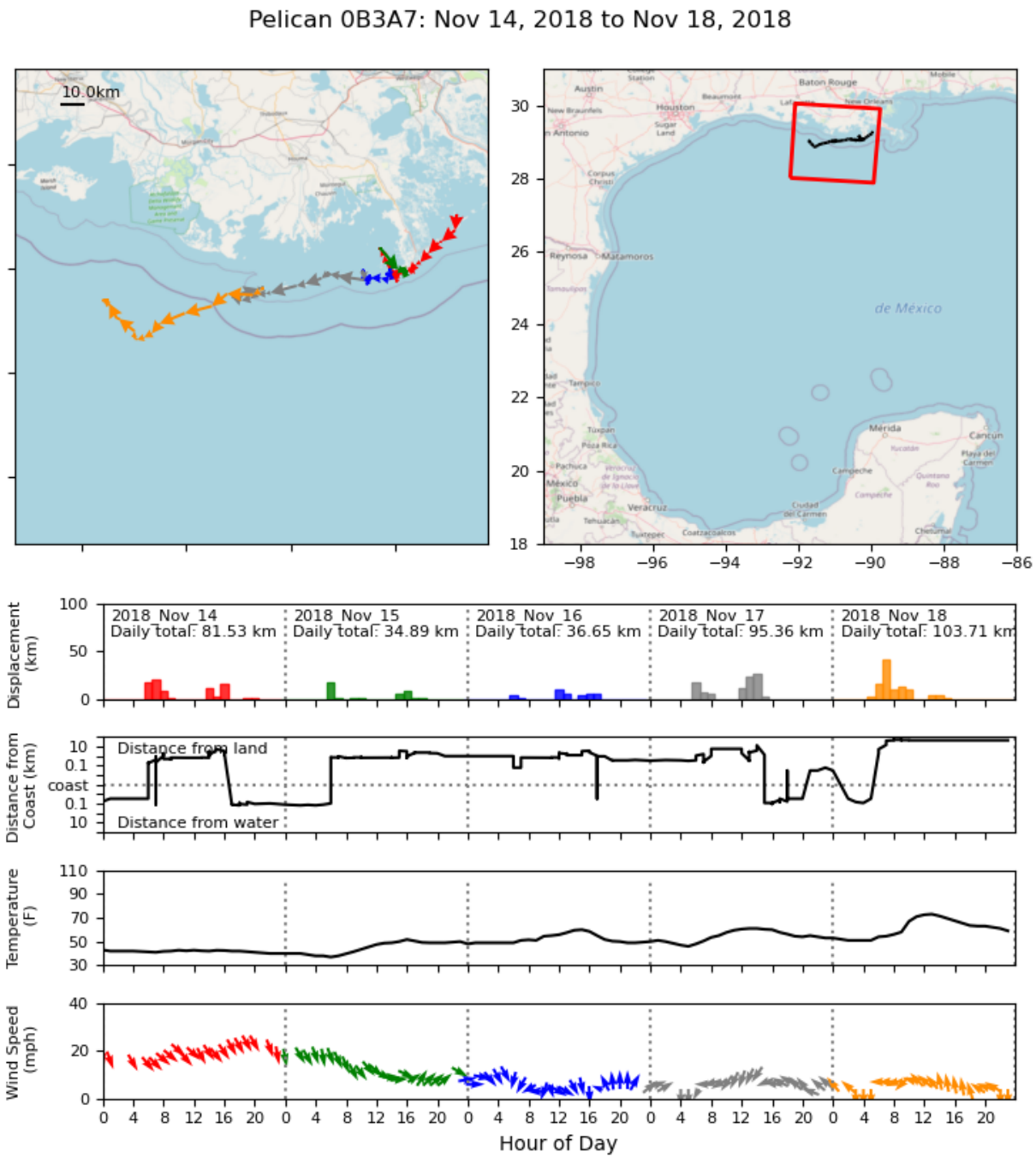

Figure 773 - Maps and graphs showing movements of 0B3A7 between 2018-11-14 and 2018-11-17 inclusive.

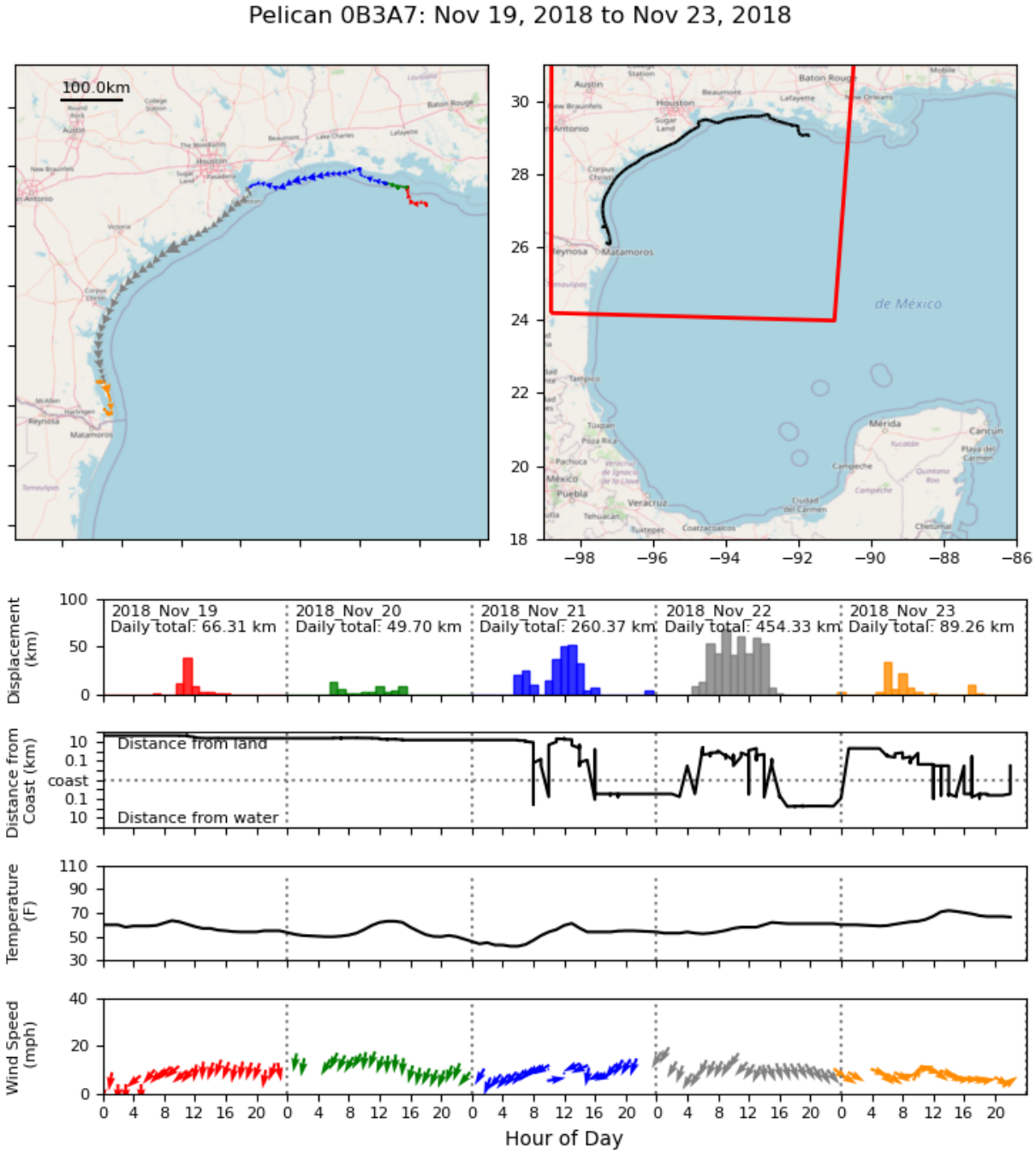

Figure 774 - Maps and graphs showing movements of 0B3A7 between 2018-11-19 and 2018-11-22 inclusive.

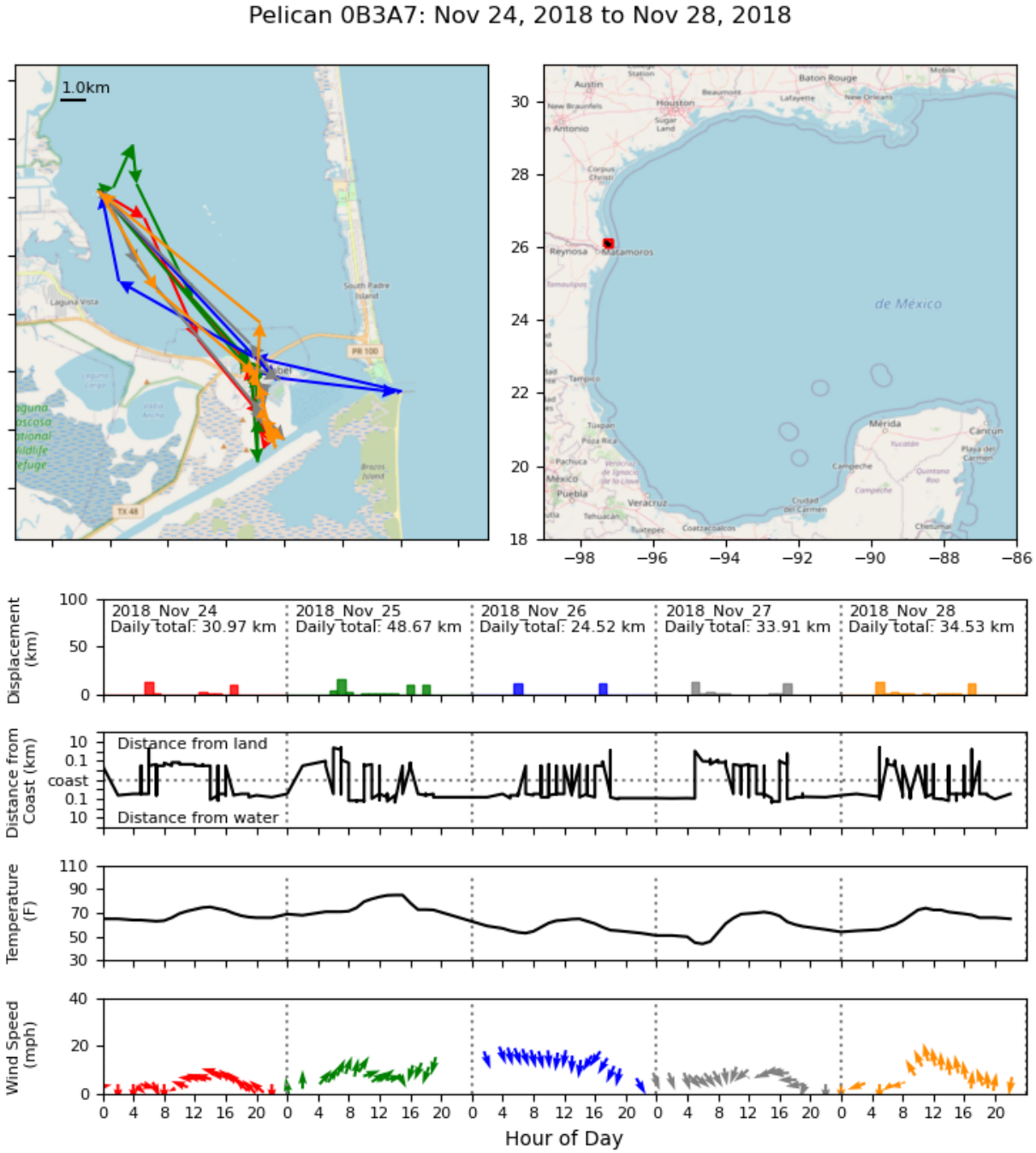

Figure 775 - Maps and graphs showing movements of 0B3A7 between 2018-11-24 and 2018-11-27 inclusive.

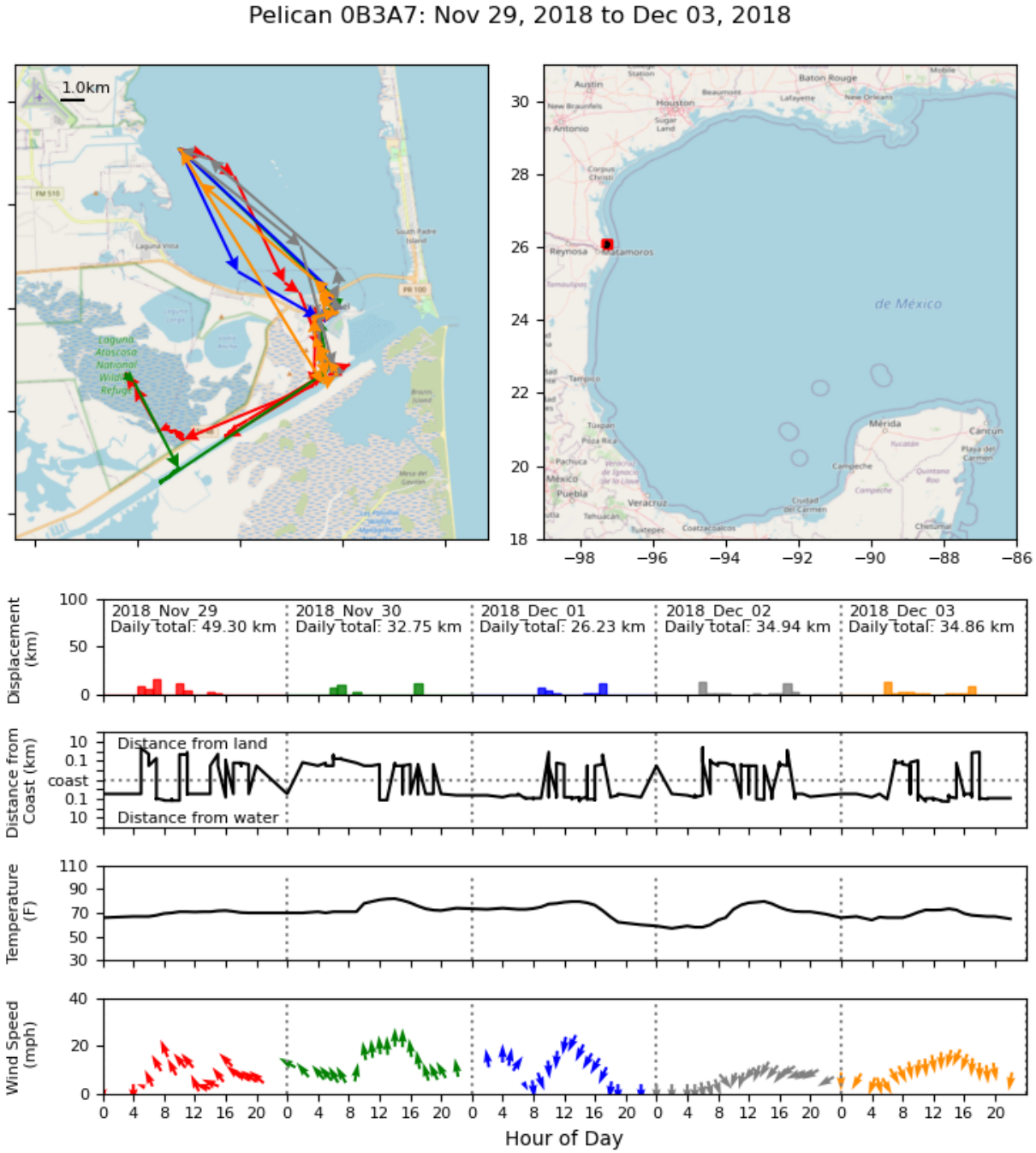

Figure 776 - Maps and graphs showing movements of 0B3A7 between 2018-11-29 and 2018-12-02 inclusive.

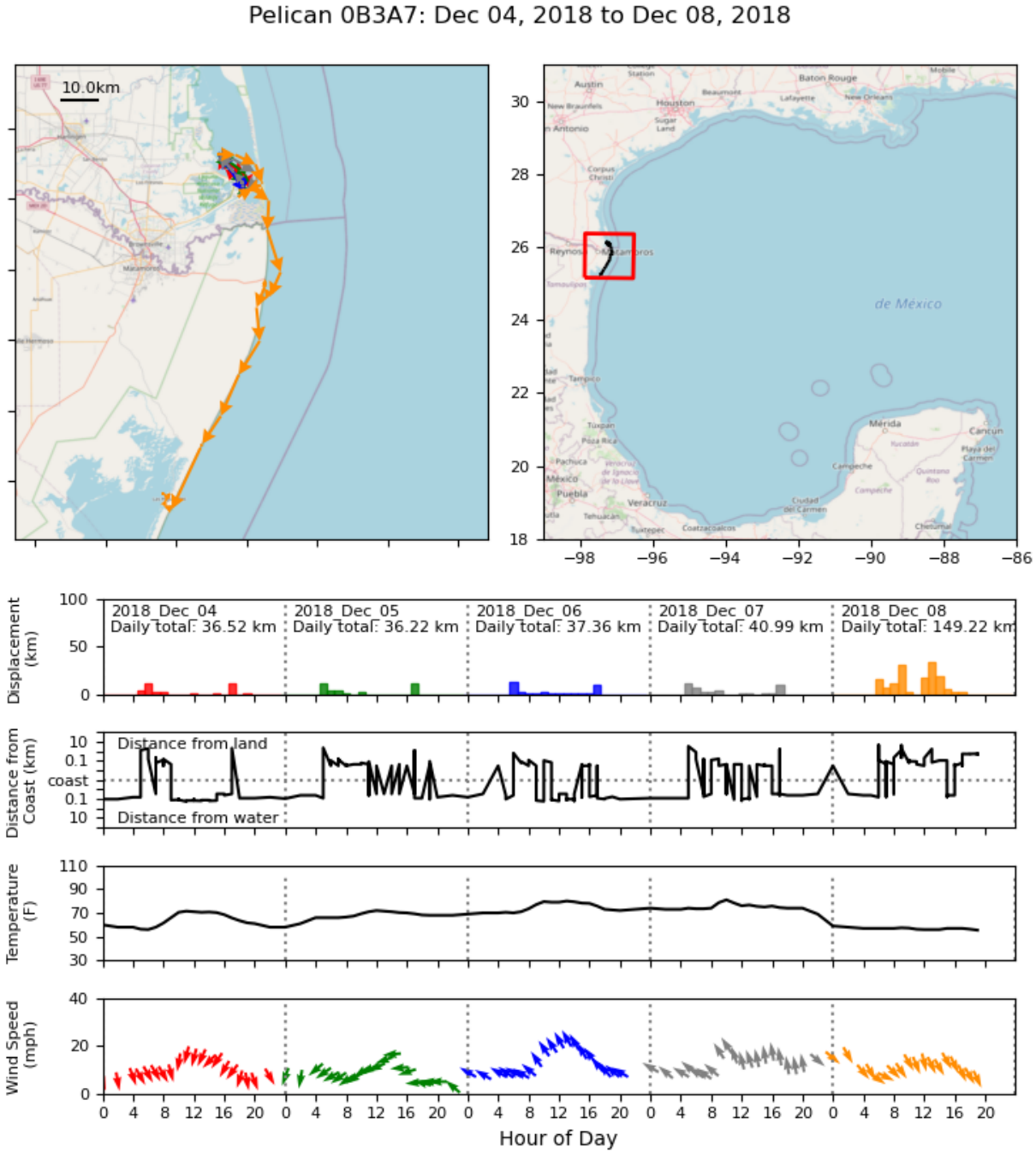

Figure 777 - Maps and graphs showing movements of 0B3A7 between 2018-12-04 and 2018-12-07 inclusive.

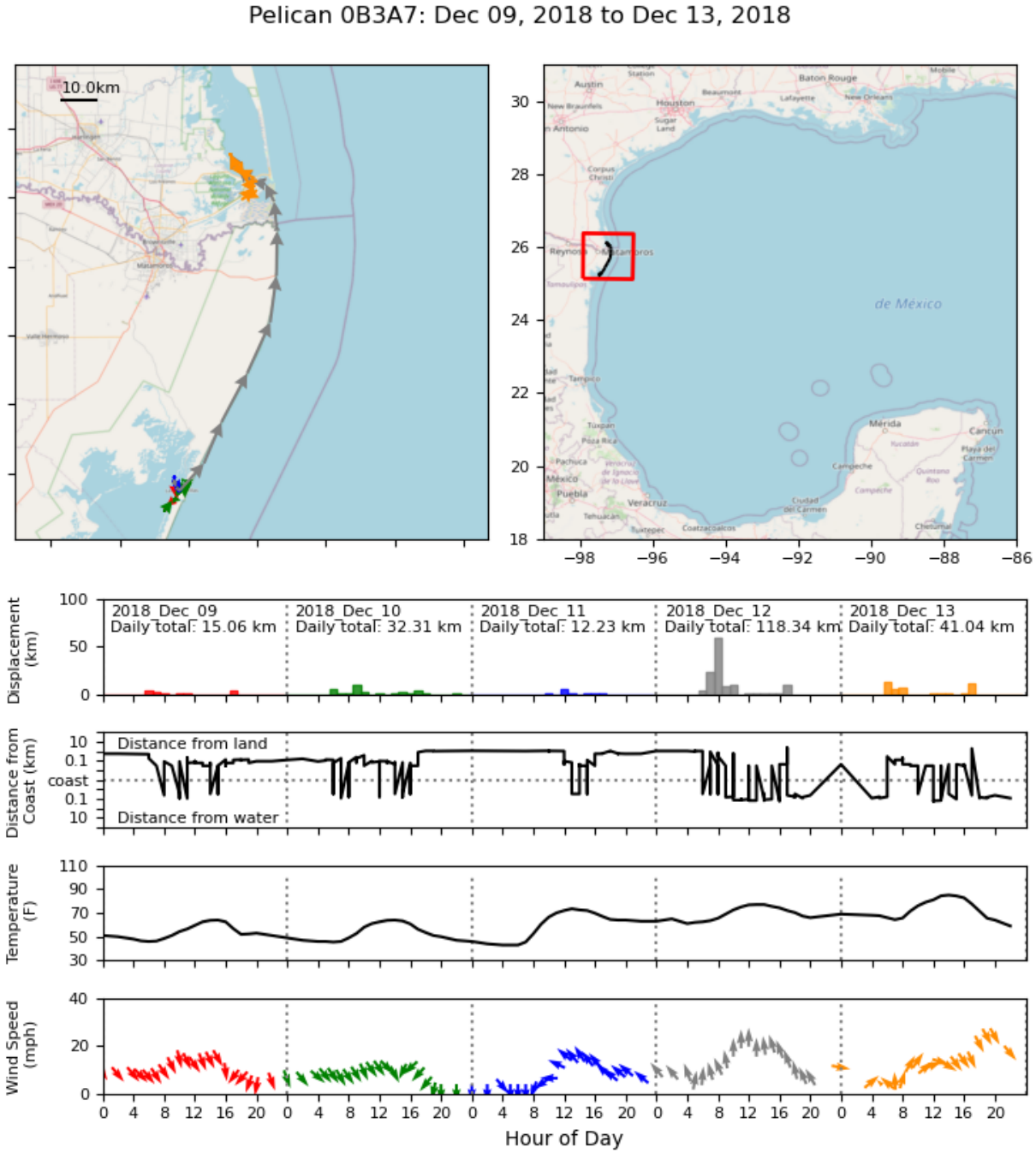

Figure 778 - Maps and graphs showing movements of 0B3A7 between 2018-12-09 and 2018-12-12 inclusive.

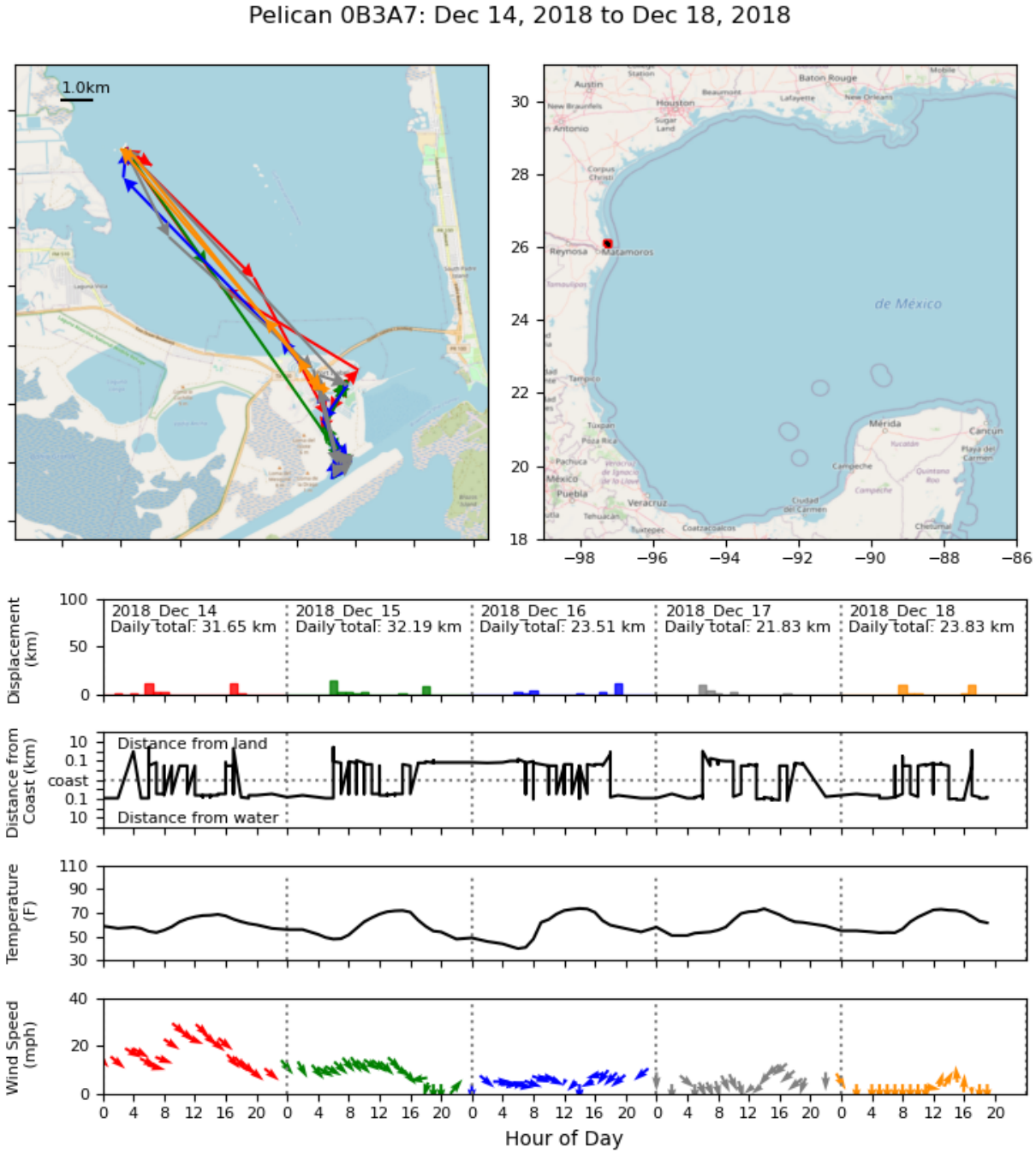

Figure 779 - Maps and graphs showing movements of 0B3A7 between 2018-12-14 and 2018-12-17 inclusive.

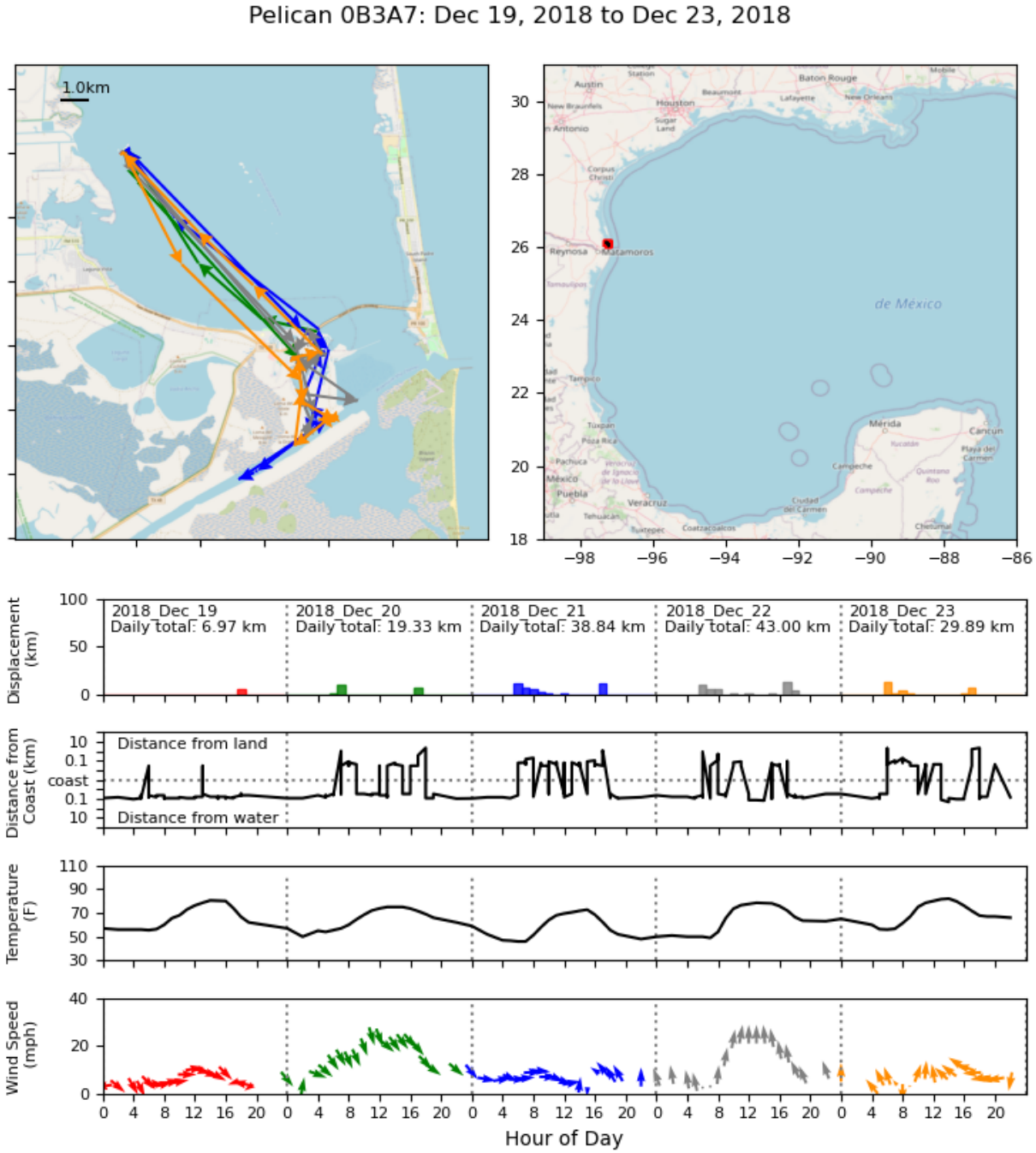

Figure 780 - Maps and graphs showing movements of 0B3A7 between 2018-12-19 and 2018-12-22 inclusive.

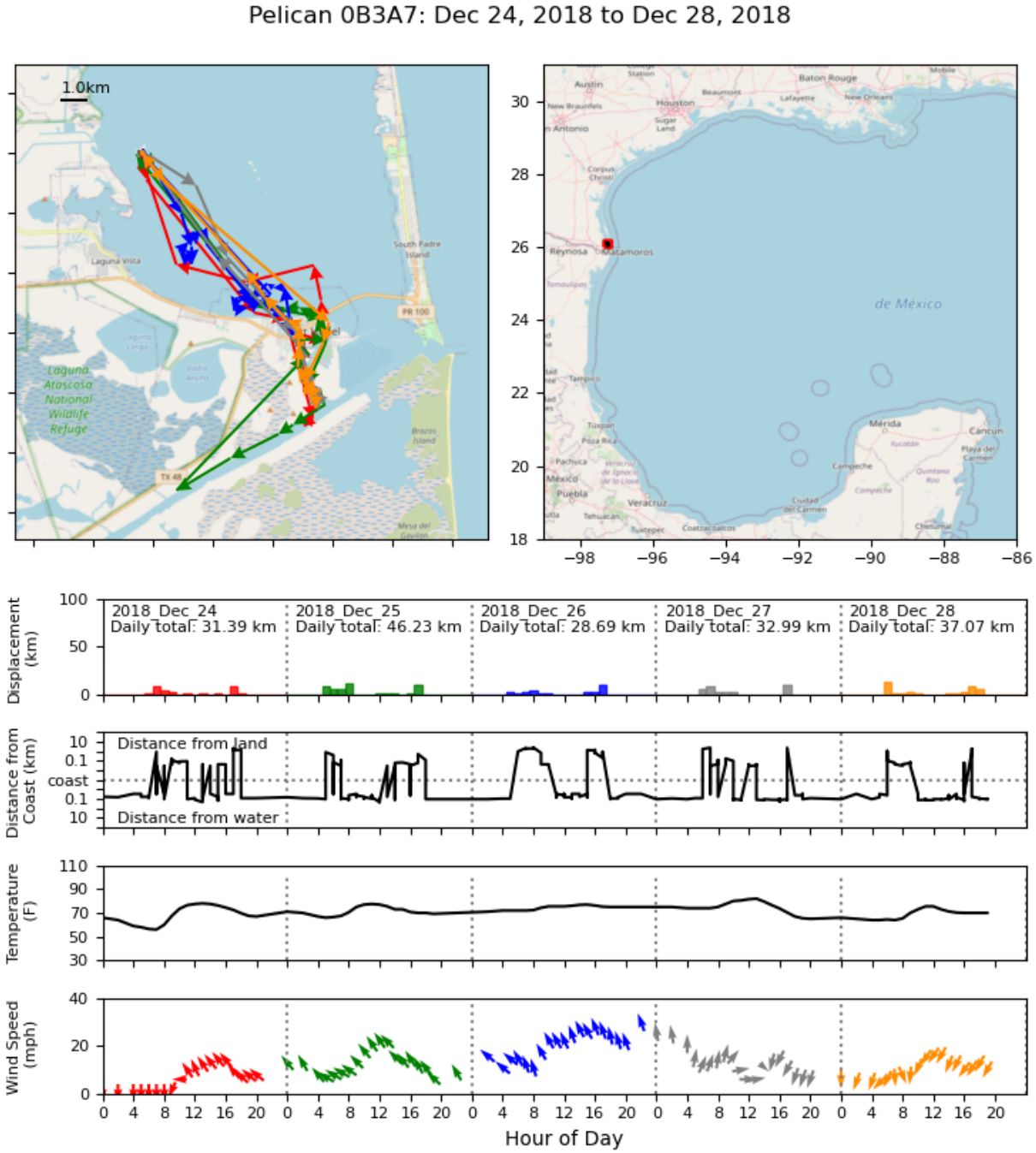

Figure 781 - Maps and graphs showing movements of 0B3A7 between 2018-12-24 and 2018-12-27 inclusive.

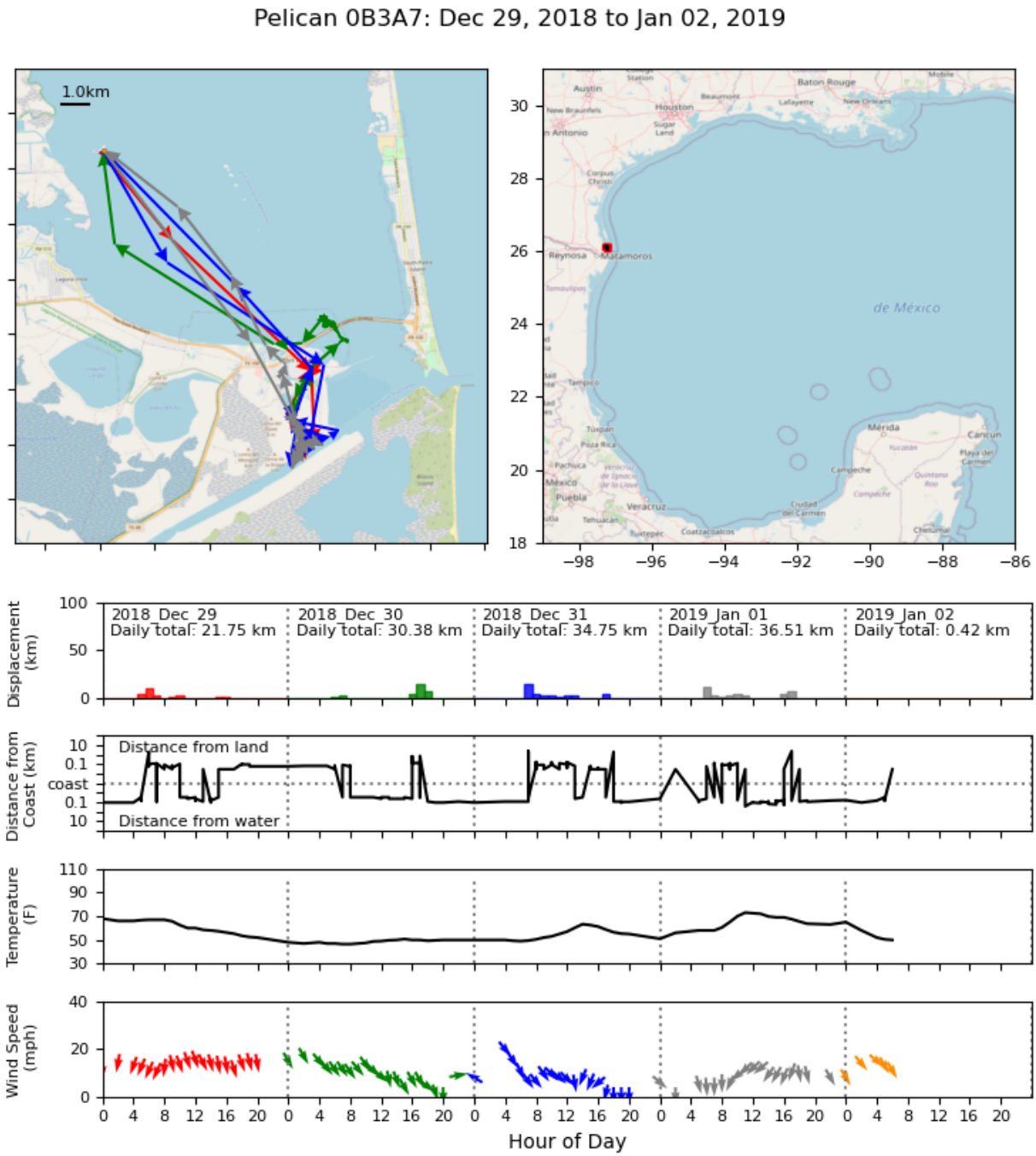

Figure 782 - Maps and graphs showing movements of 0B3A7 between 2018-12-29 and 2019-01-01 inclusive.

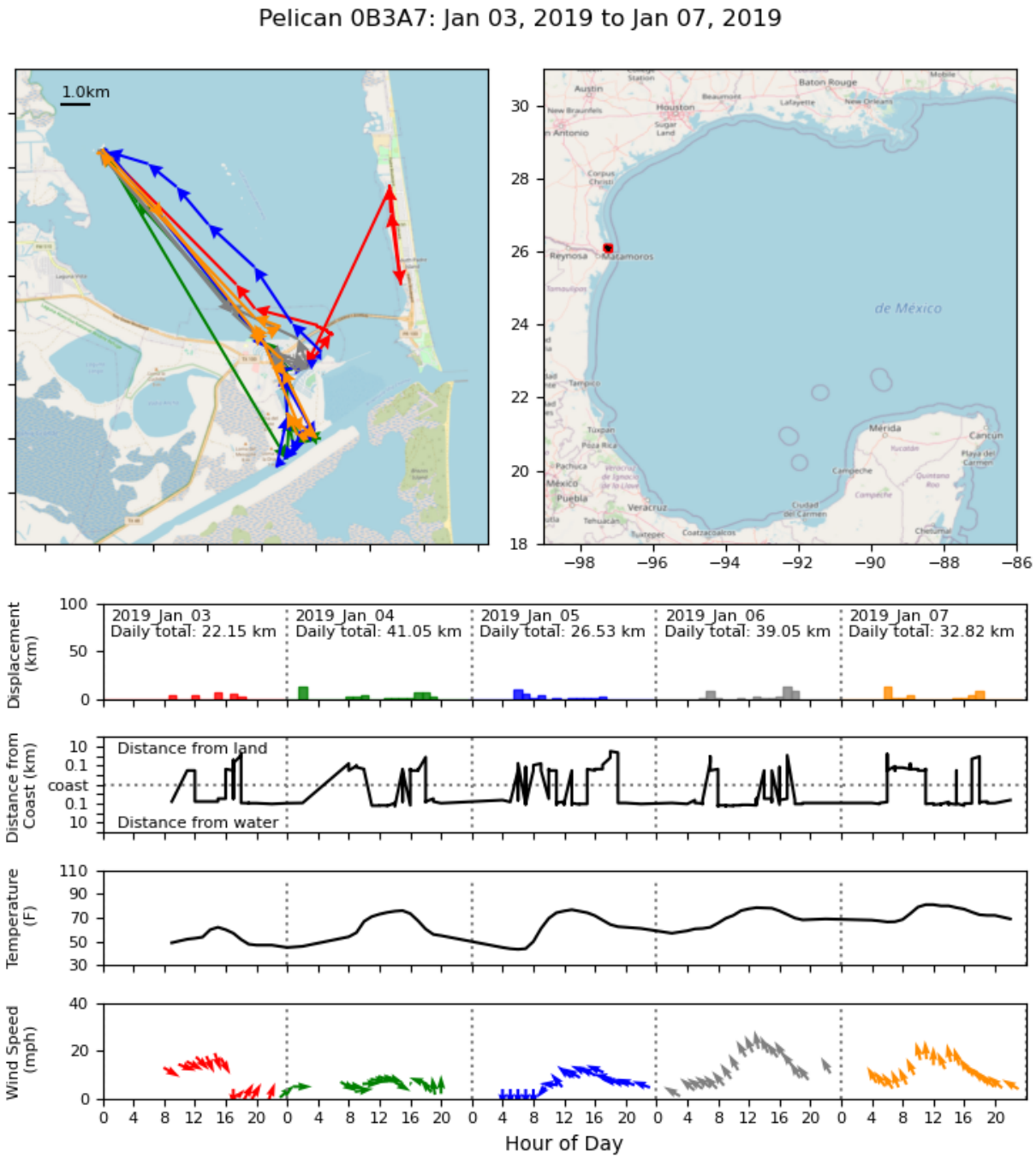

Figure 783 - Maps and graphs showing movements of 0B3A7 between 2019-01-03 and 2019-01-06 inclusive.

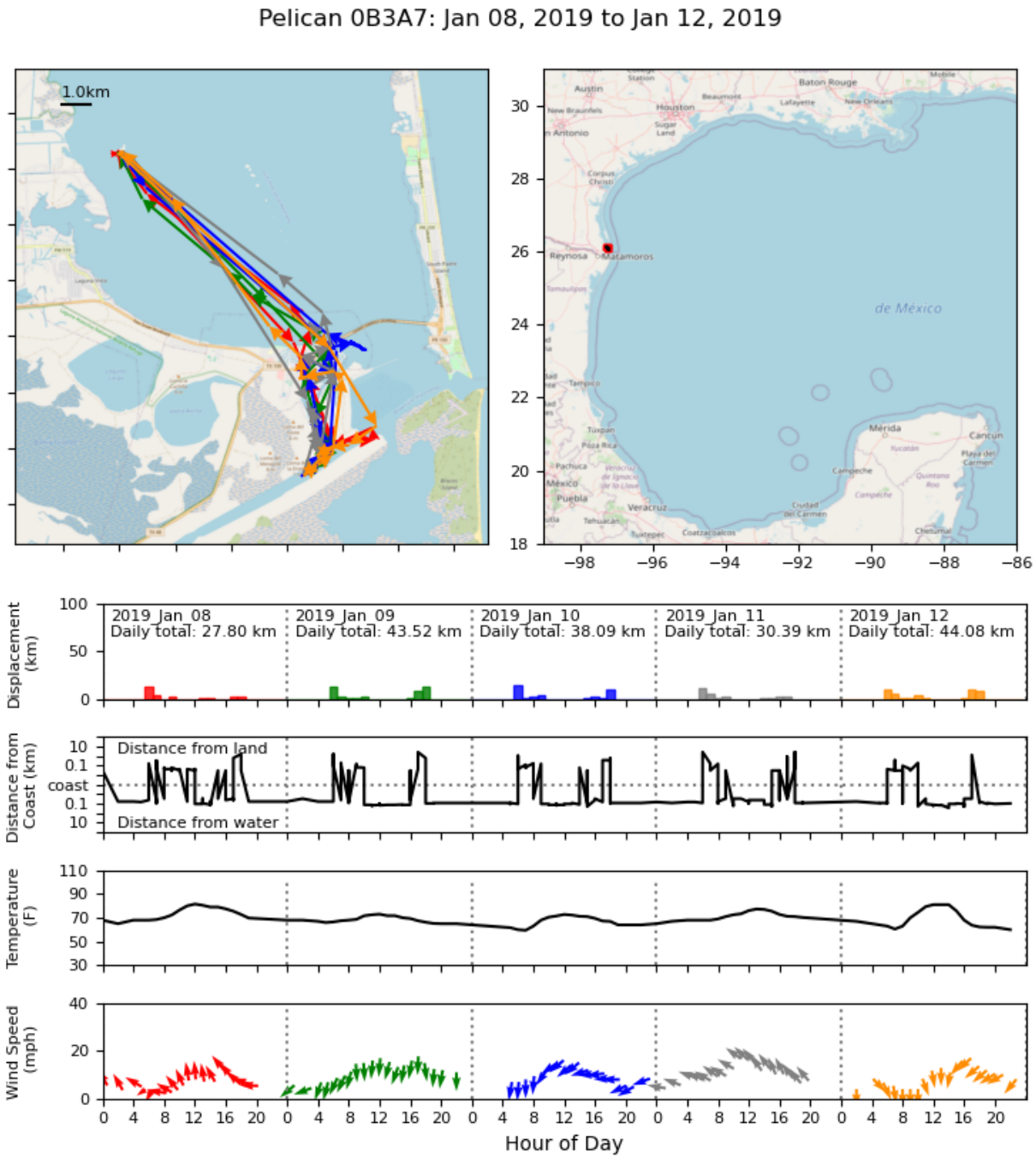

Figure 784 - Maps and graphs showing movements of 0B3A7 between 2019-01-08 and 2019-01-11 inclusive.

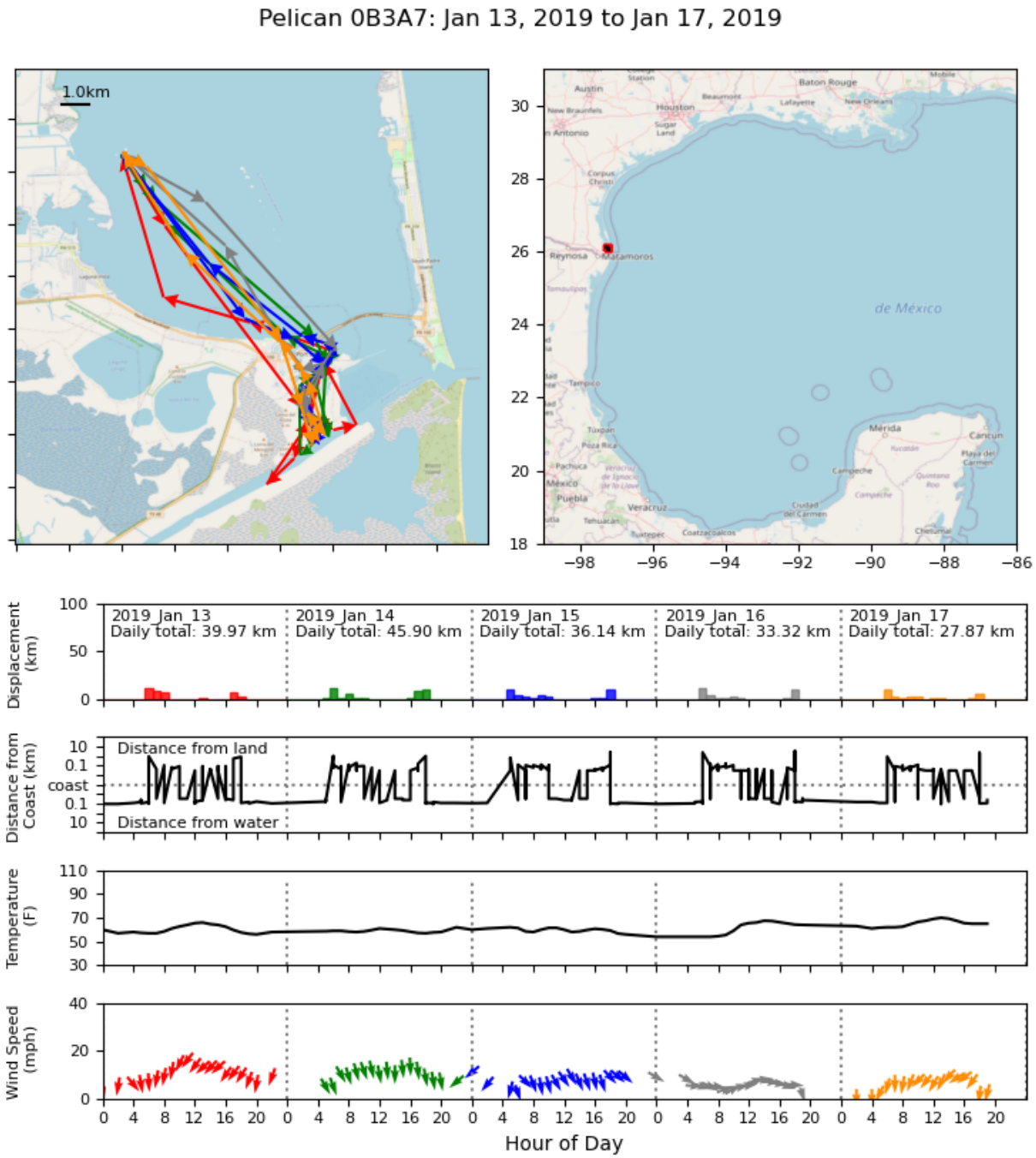

Figure 785 - Maps and graphs showing movements of 0B3A7 between 2019-01-13 and 2019-01-16 inclusive.

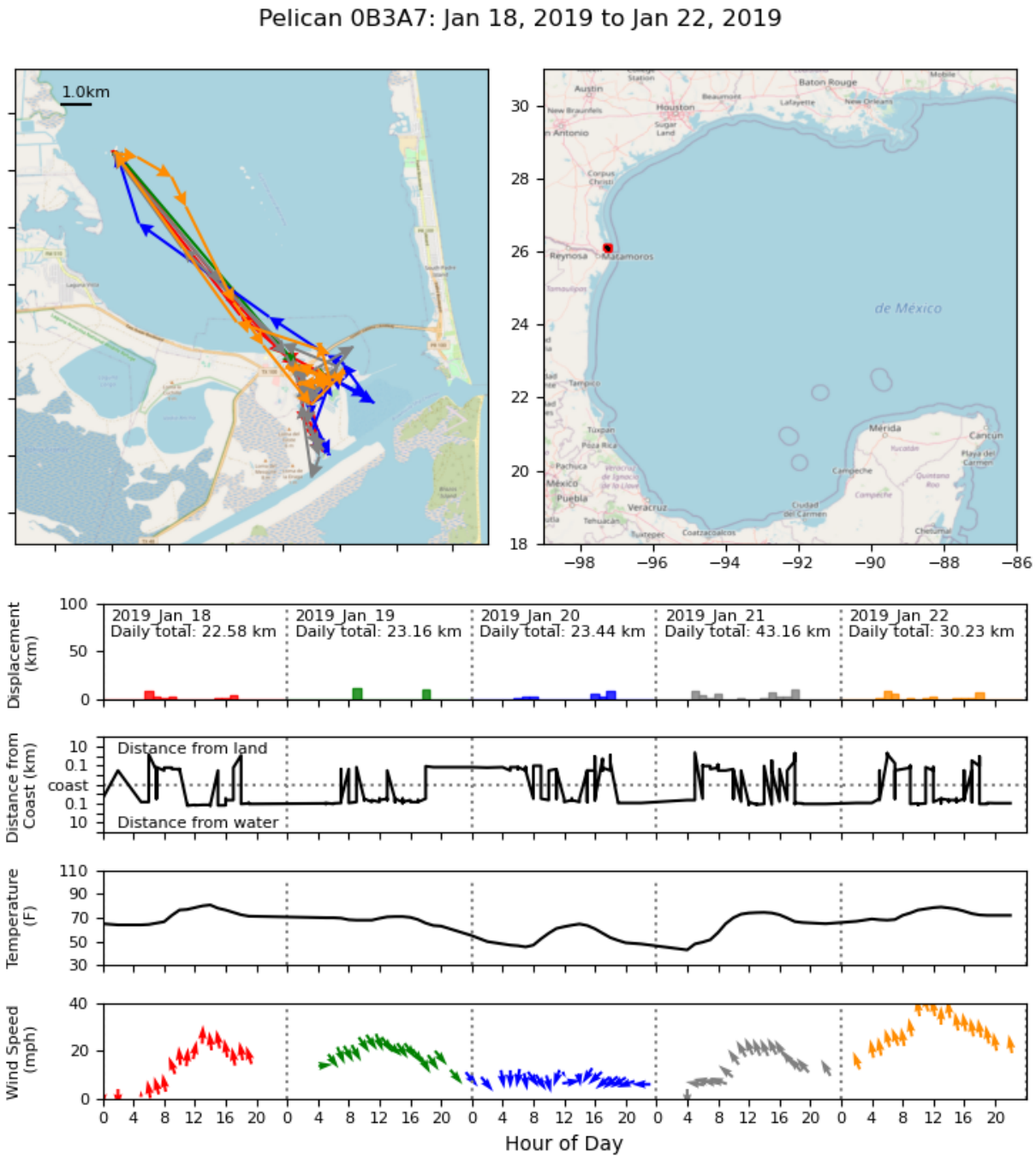

Figure 786 - Maps and graphs showing movements of 0B3A7 between 2019-01-18 and 2019-01-21 inclusive.

Pelican 1639 - Active from October 16, 2018 to October 24, 2018

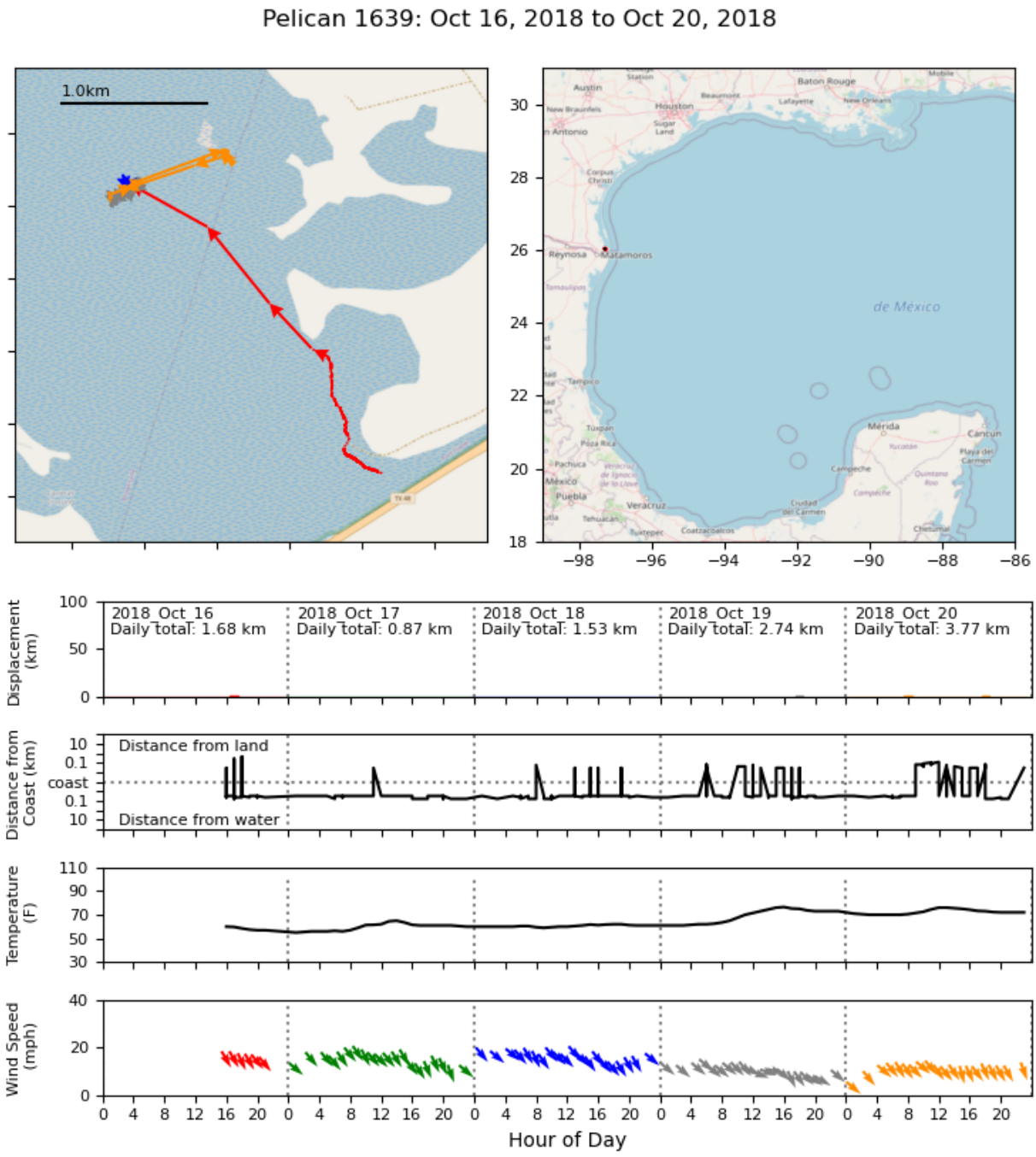

Figure 787 - Maps and graphs showing movements of 1639 between 2018-10-16 and 2018-10-19 inclusive.

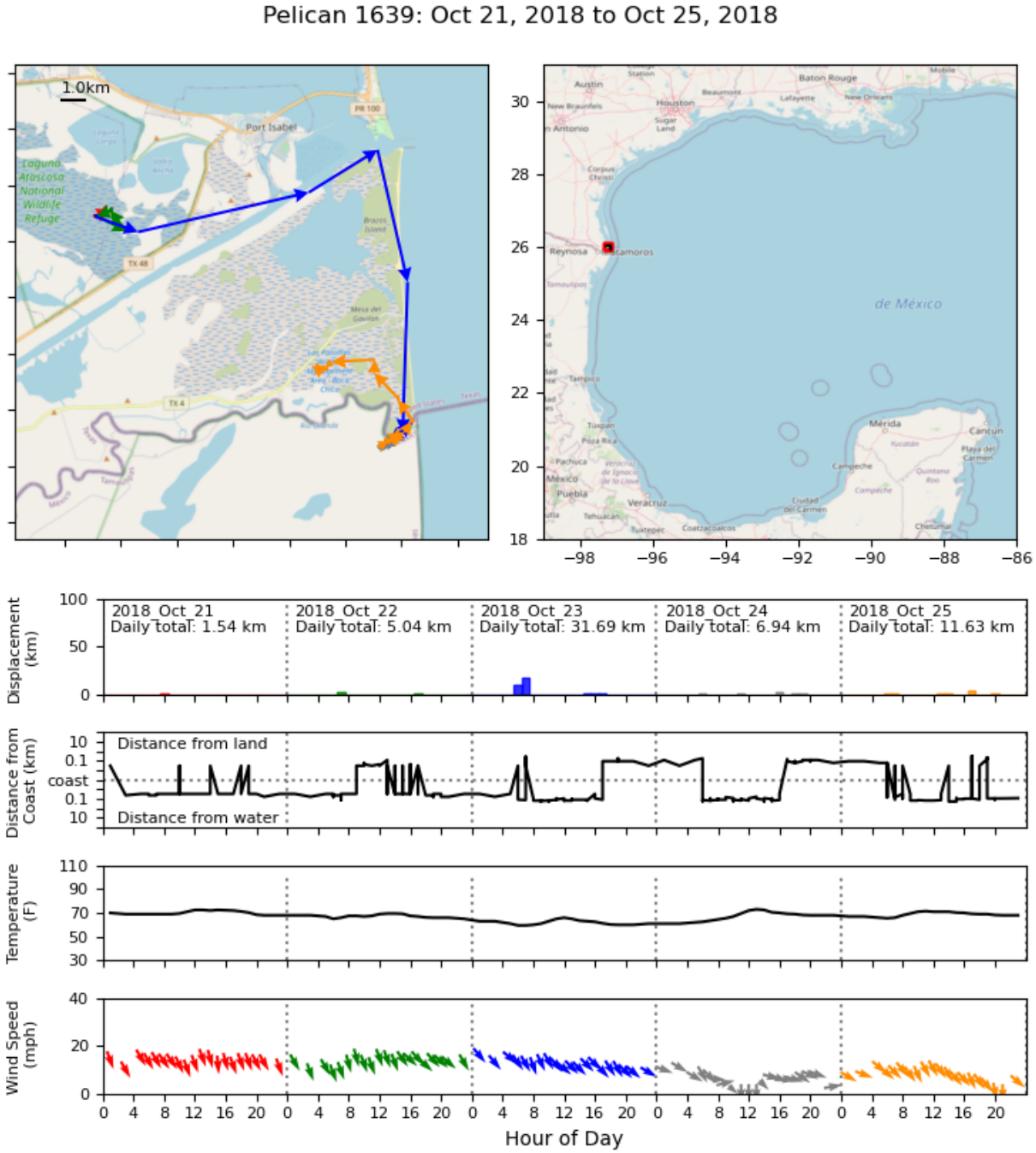

Figure 788 - Maps and graphs showing movements of 1639 between 2018-10-21 and 2018-10-24 inclusive.

Pelican 6E3A - Active from November 13, 2018 to January 30, 2019

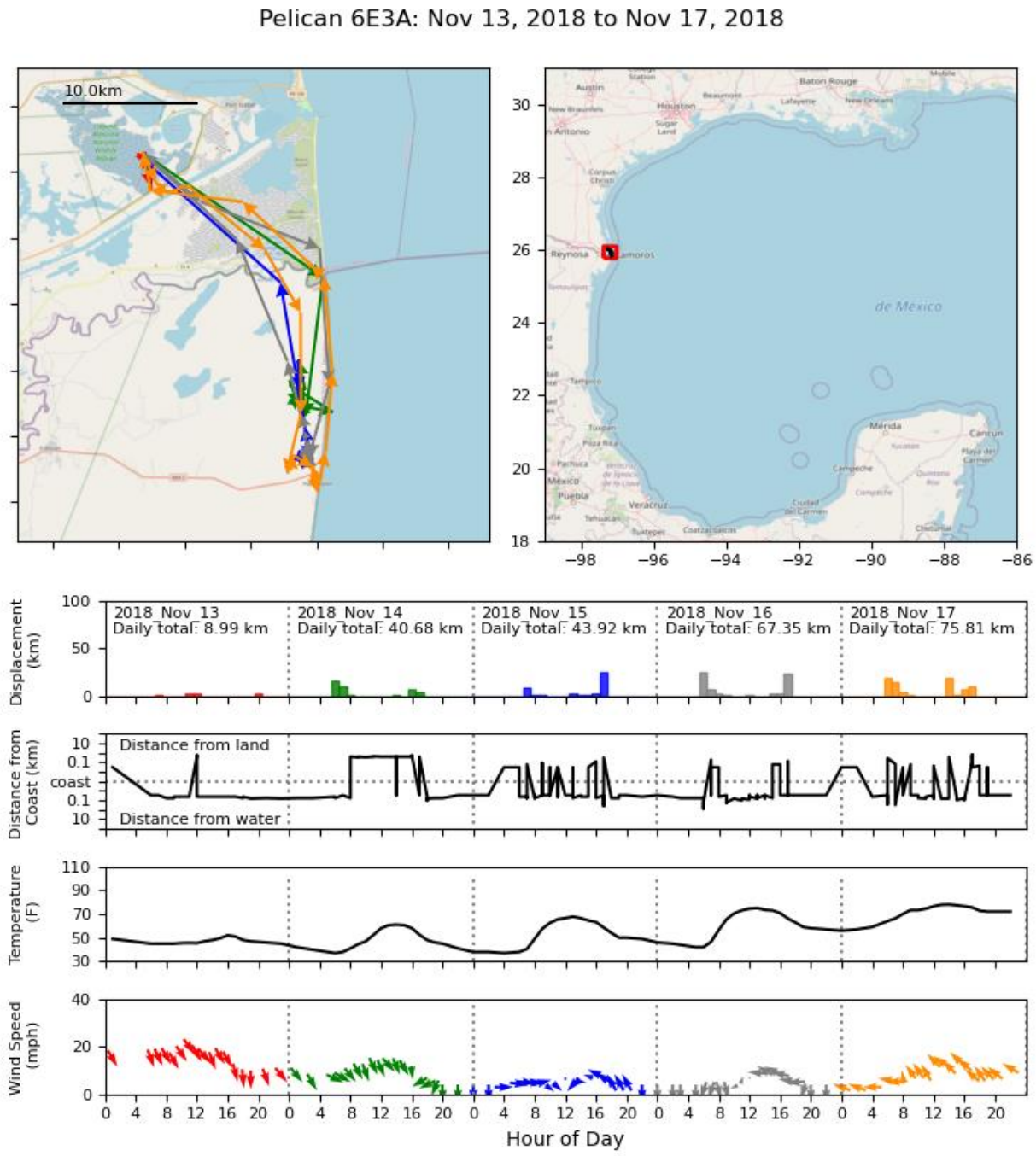

Figure 789 - Maps and graphs showing movements of 6E3A between 2018-11-13 and 2018-11-16 inclusive.

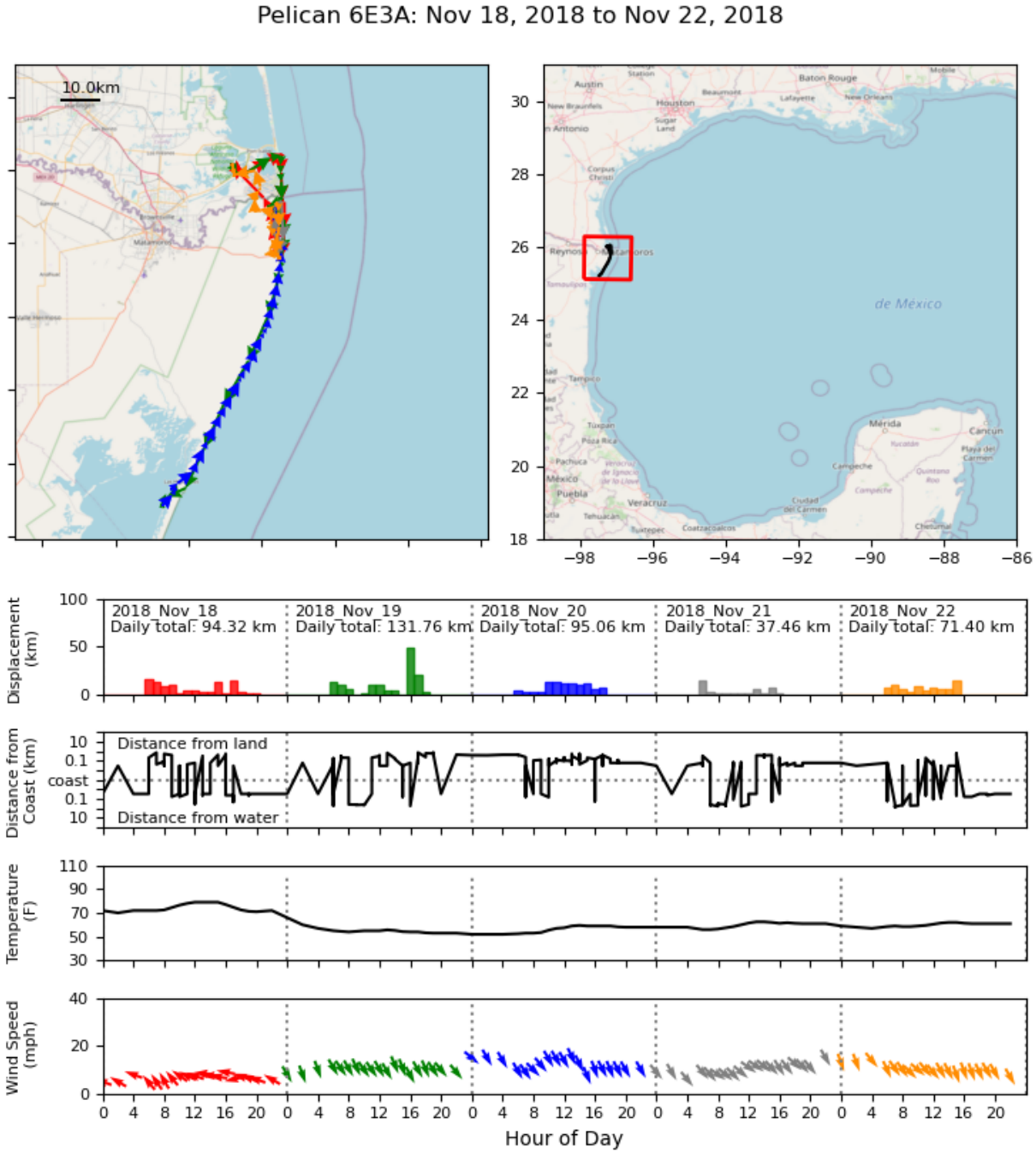

Figure 790 - Maps and graphs showing movements of 6E3A between 2018-11-18 and 2018-11-21 inclusive.

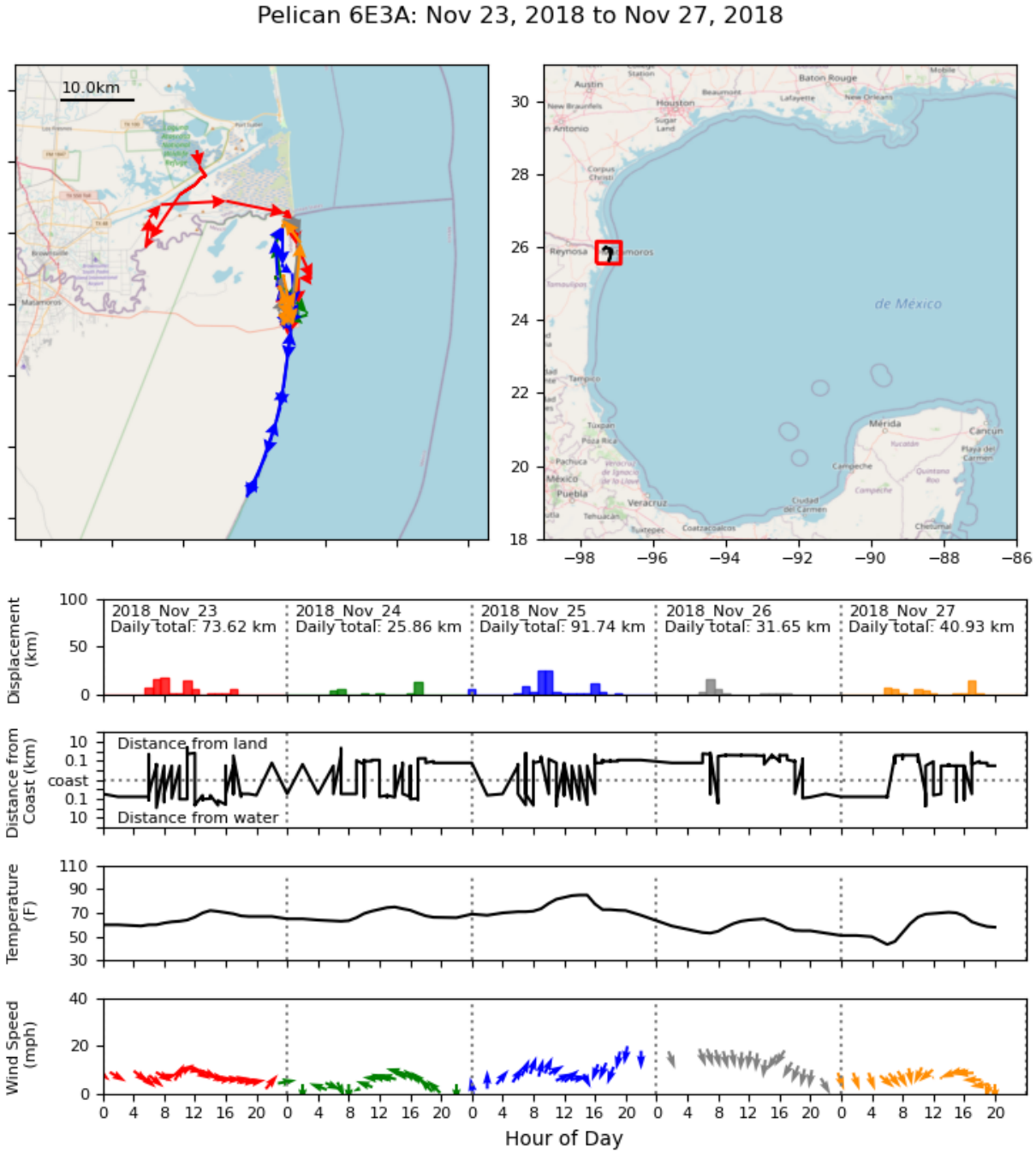

Figure 791 - Maps and graphs showing movements of 6E3A between 2018-11-23 and 2018-11-26 inclusive.

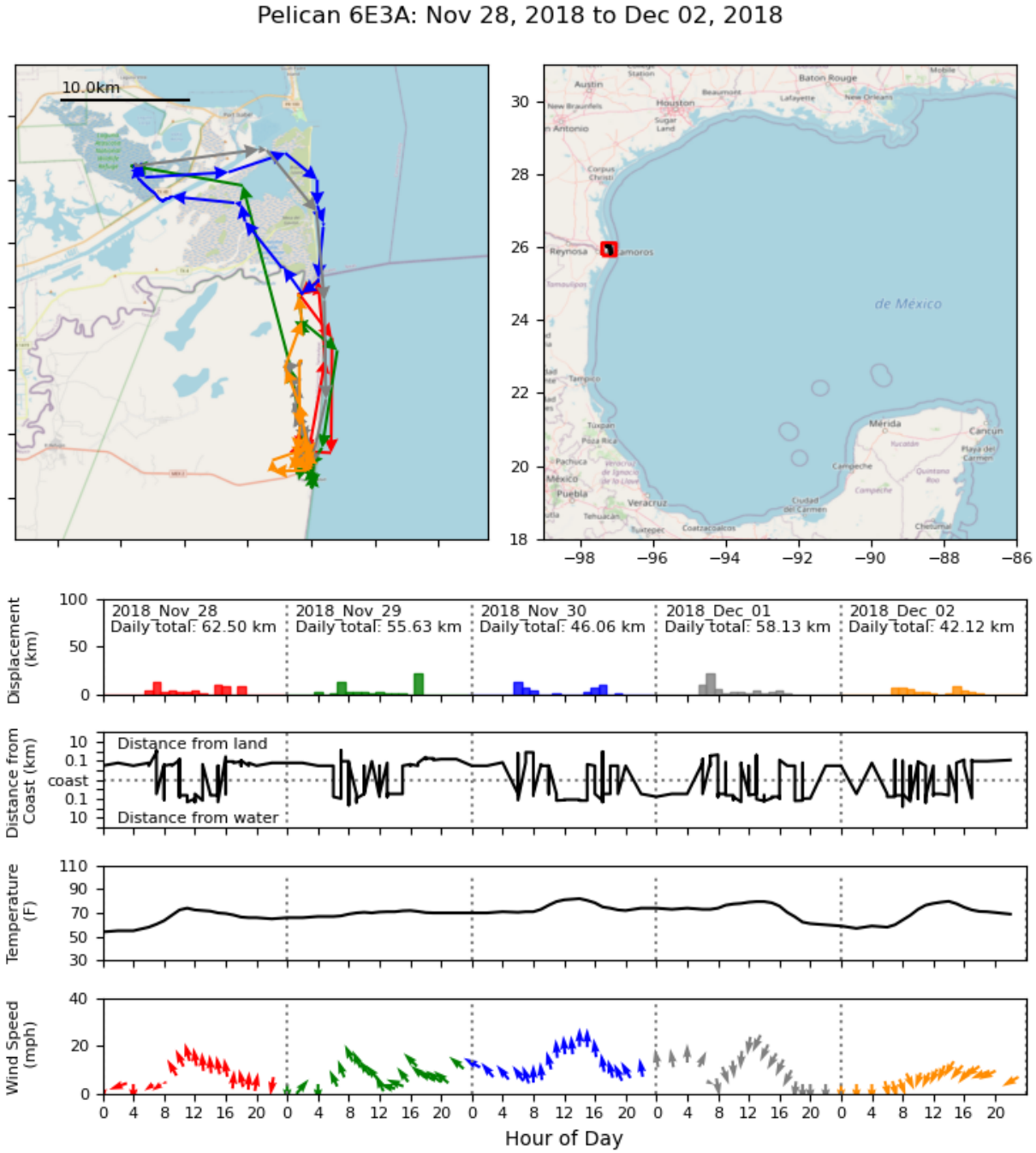

Figure 792 - Maps and graphs showing movements of 6E3A between 2018-11-28 and 2018-12-01 inclusive.

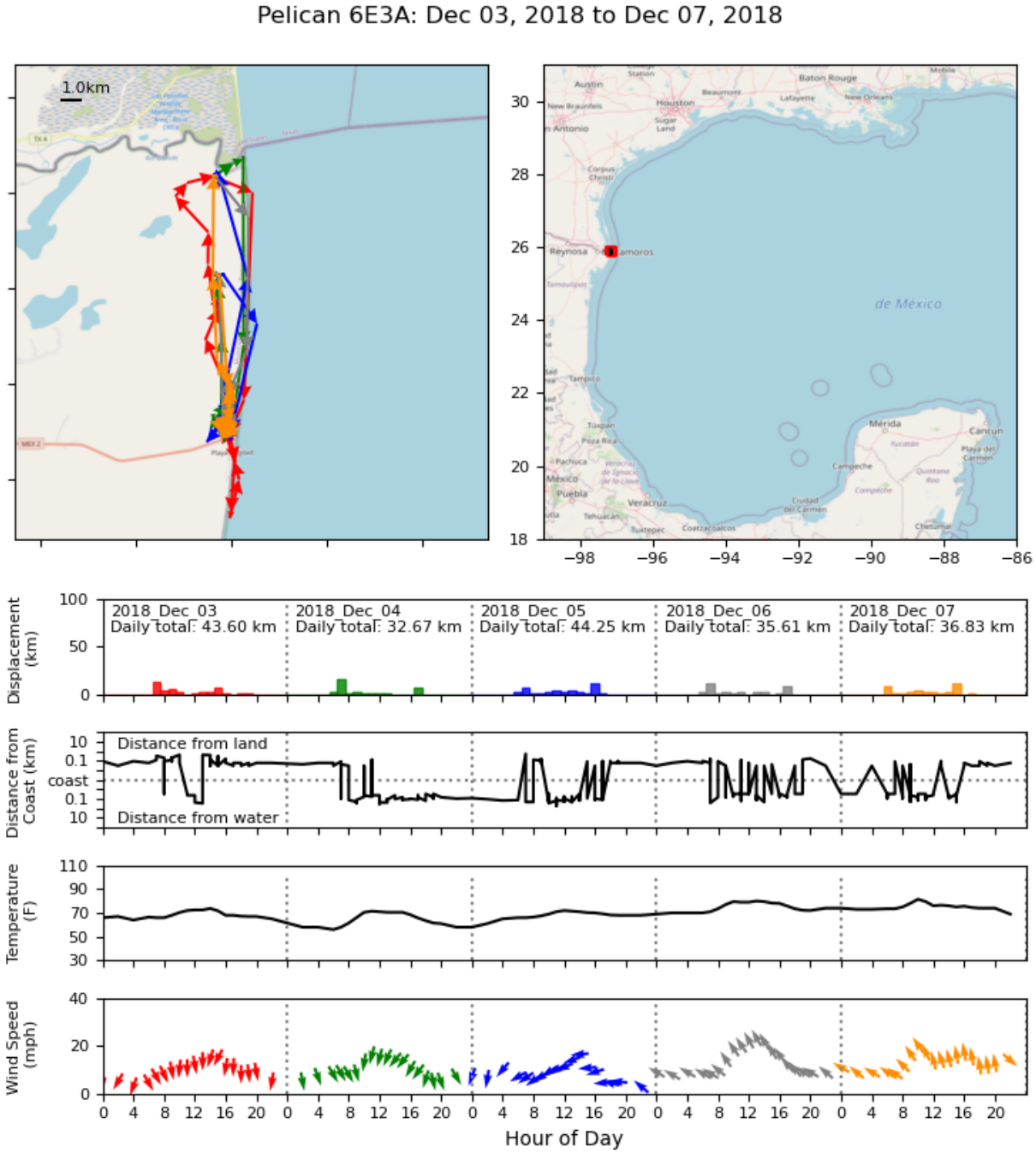

Figure 793 - Maps and graphs showing movements of 6E3A between 2018-12-03 and 2018-12-06 inclusive.

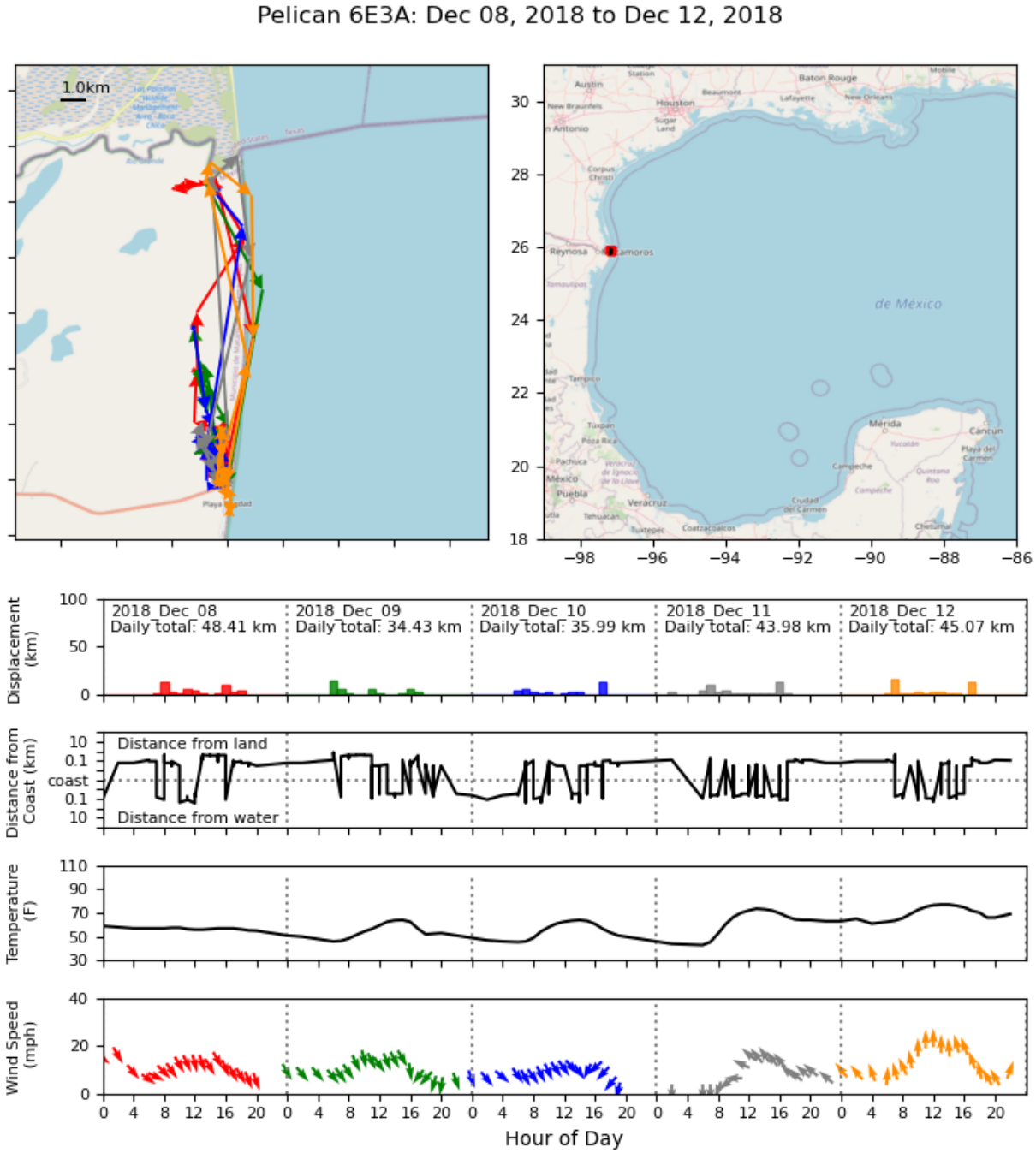

Figure 794 - Maps and graphs showing movements of 6E3A between 2018-12-08 and 2018-12-11 inclusive.

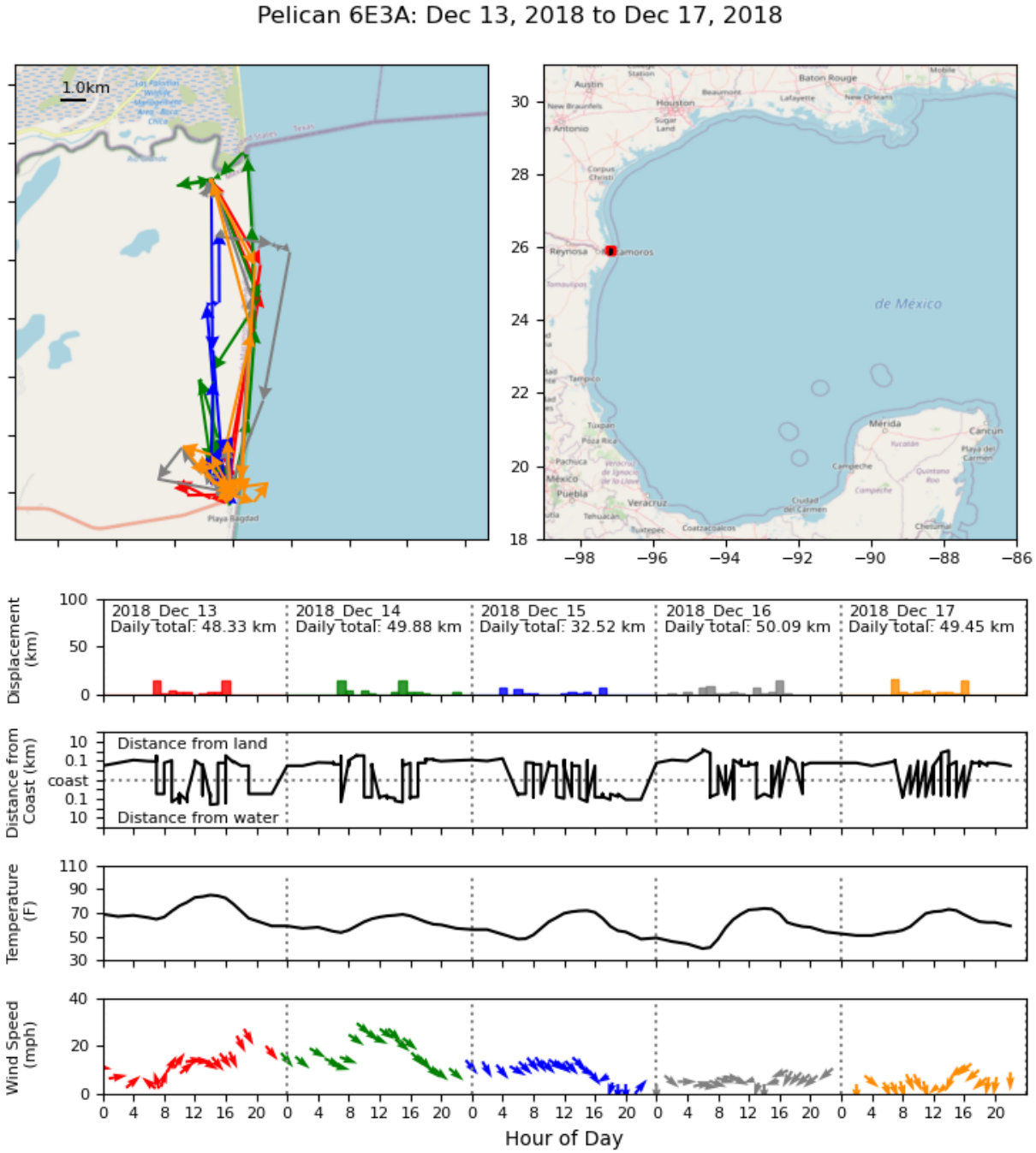

Figure 795 - Maps and graphs showing movements of 6E3A between 2018-12-13 and 2018-12-16 inclusive.

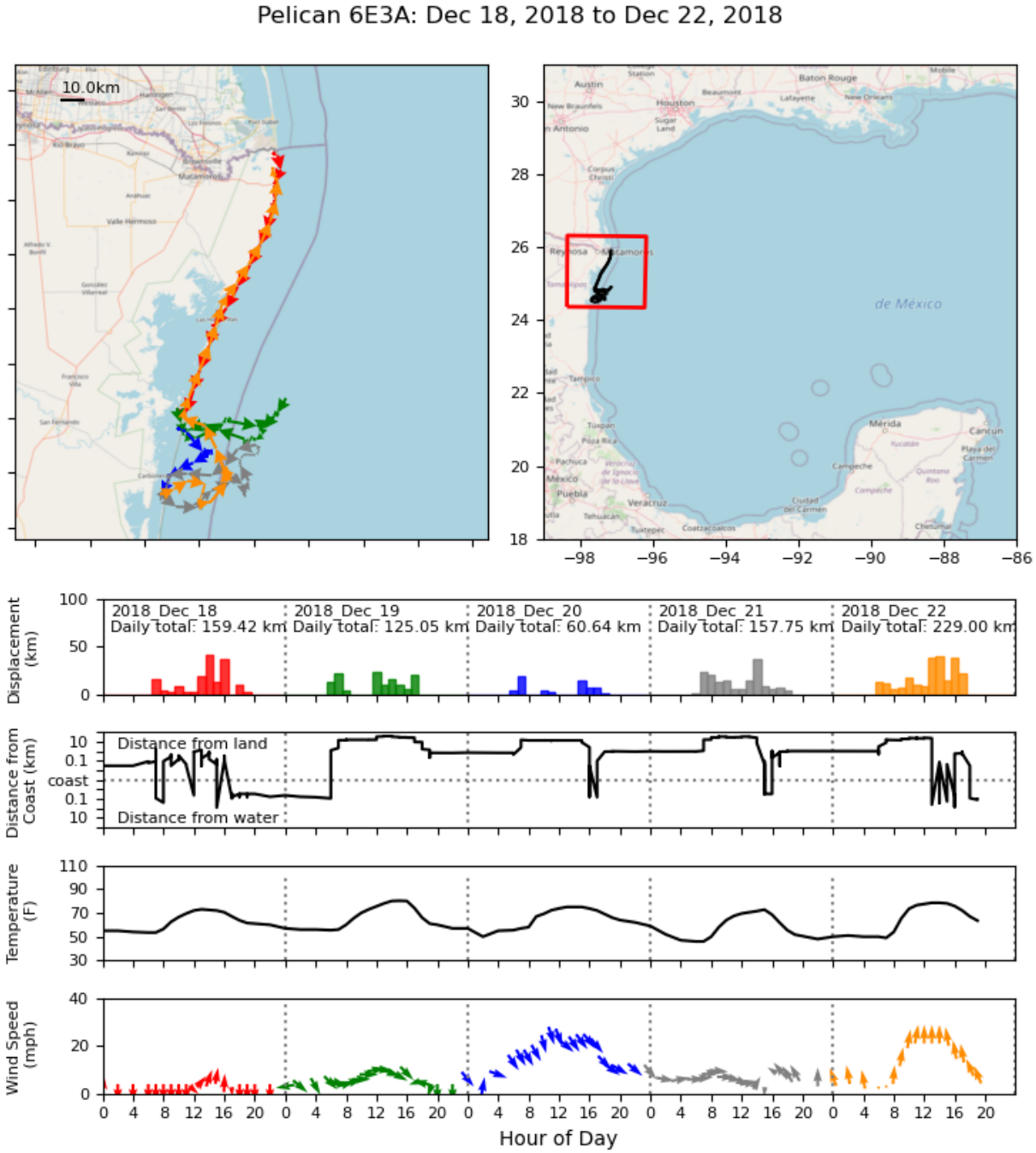

Figure 796 - Maps and graphs showing movements of 6E3A between 2018-12-18 and 2018-12-21 inclusive.

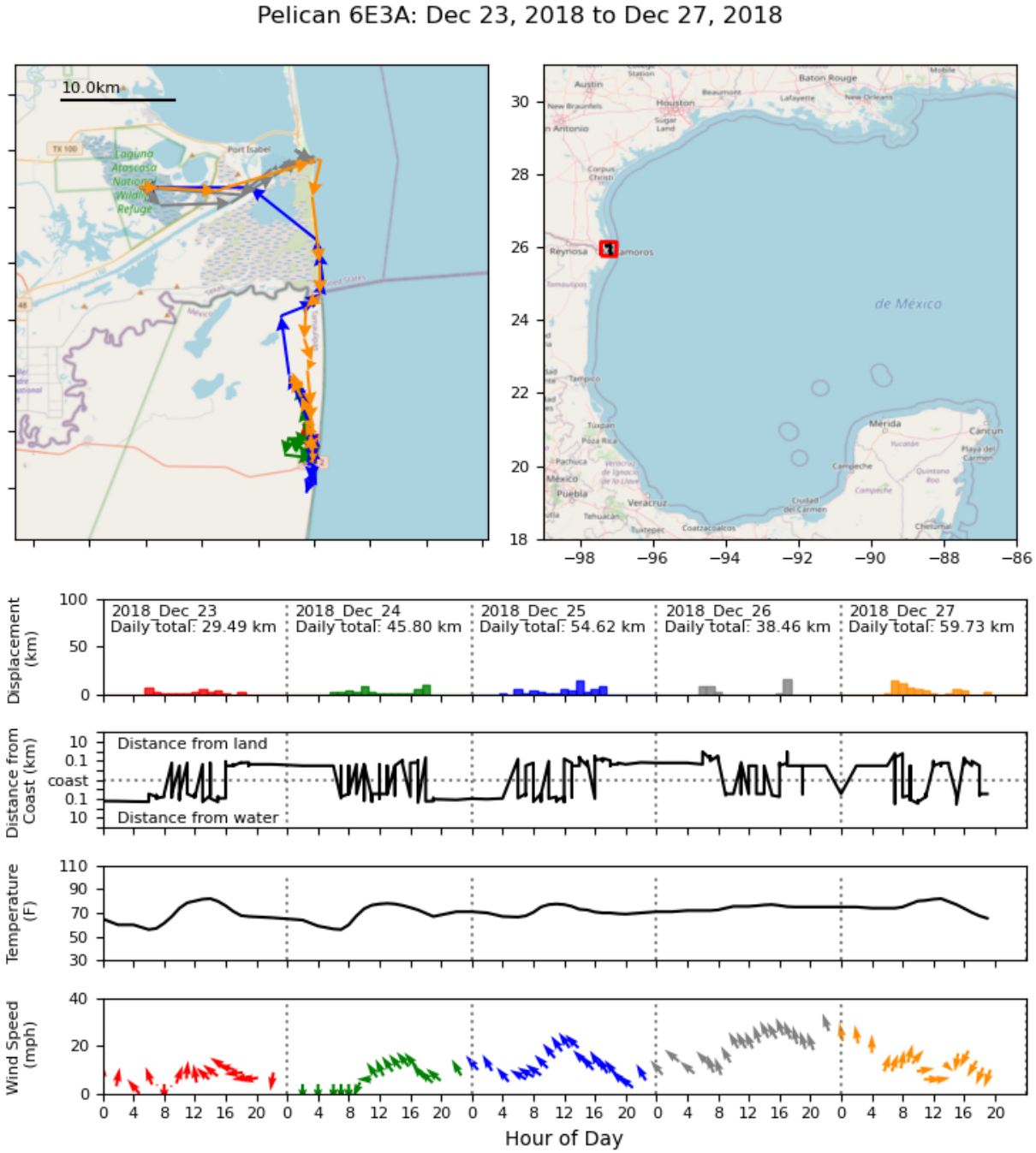

Figure 797 - Maps and graphs showing movements of 6E3A between 2018-12-23 and 2018-12-26 inclusive.

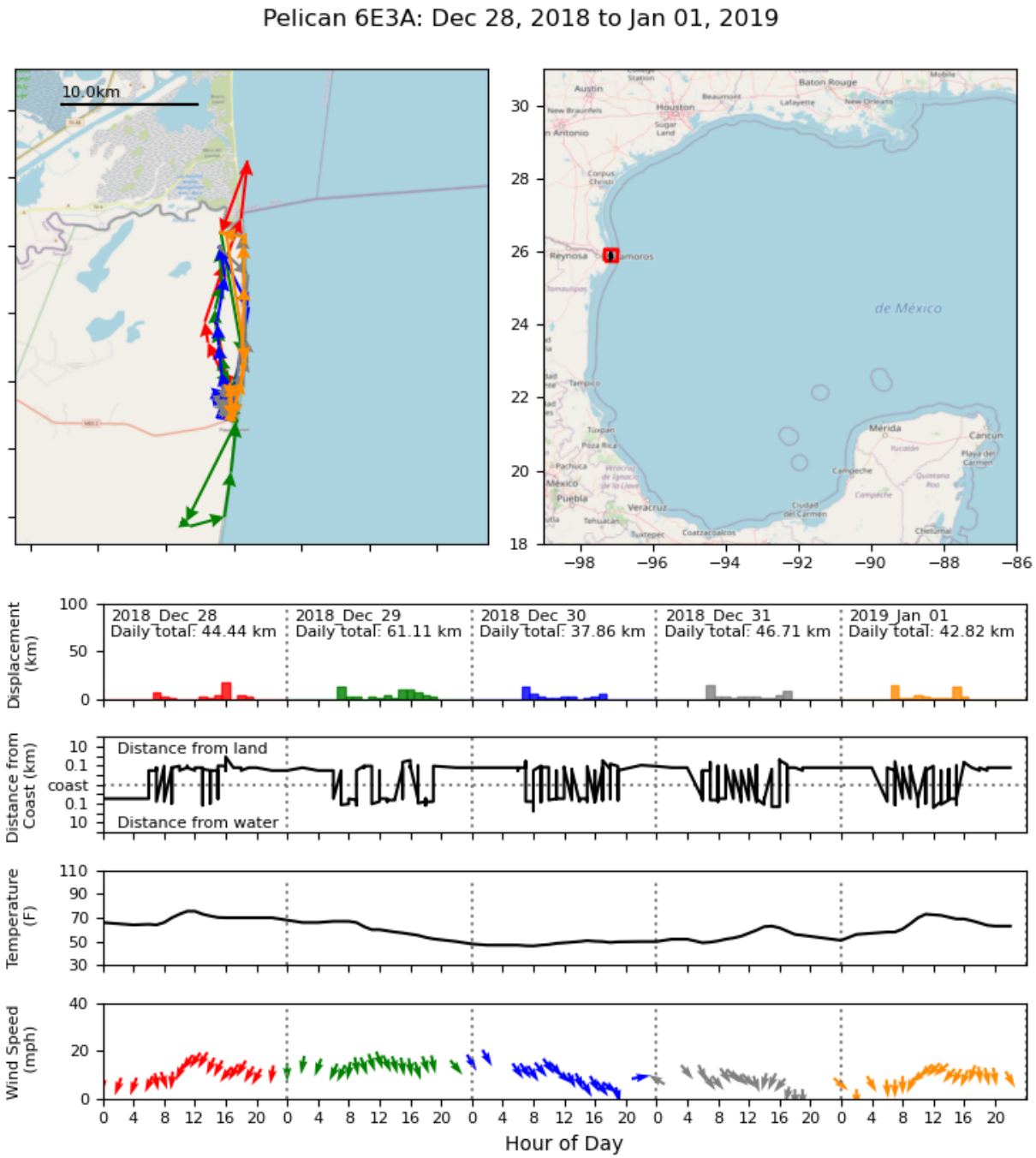

Figure 798 - Maps and graphs showing movements of 6E3A between 2018-12-28 and 2018-12-31 inclusive.

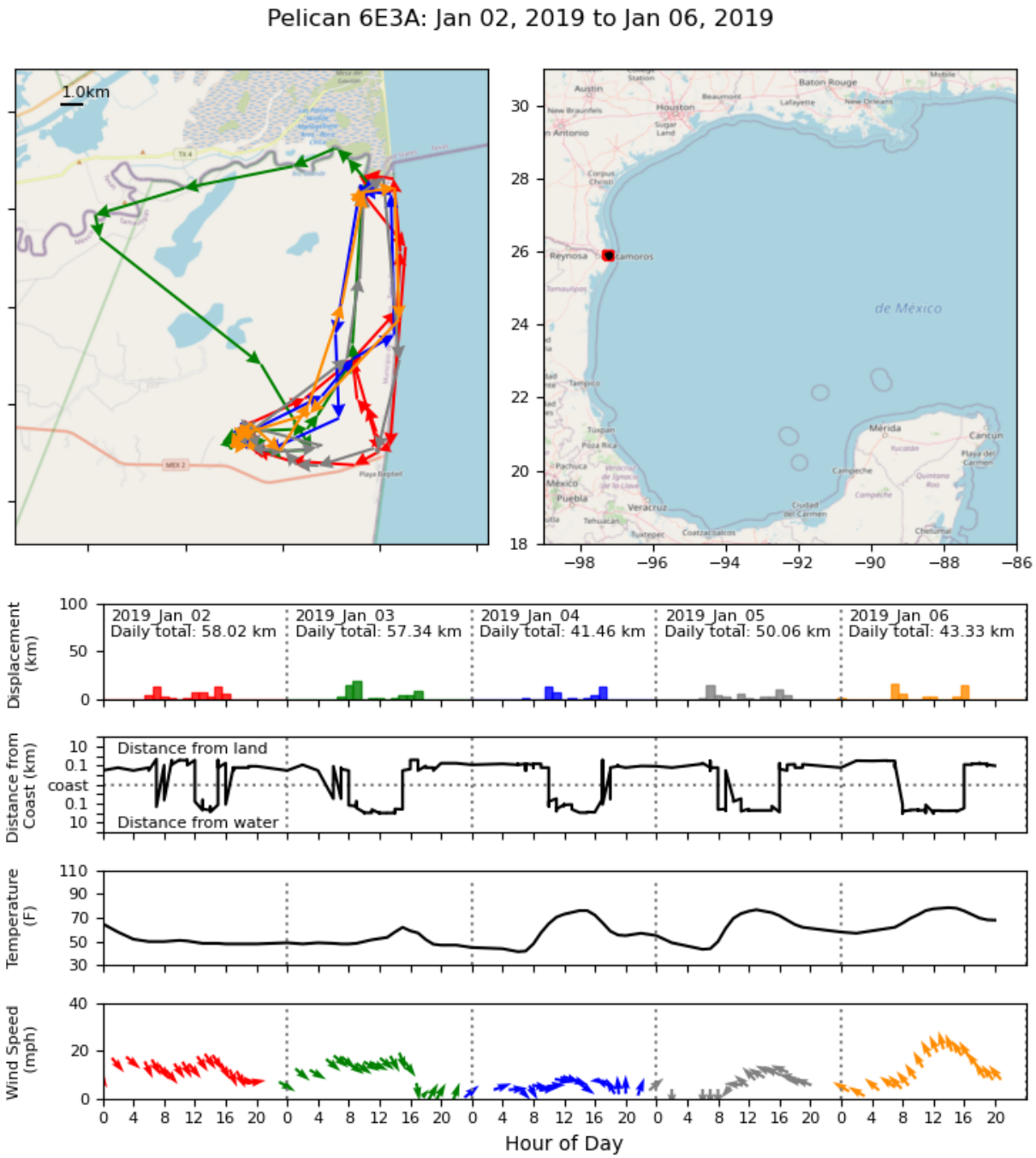

Figure 799 - Maps and graphs showing movements of 6E3A between 2019-01-02 and 2019-01-05 inclusive.

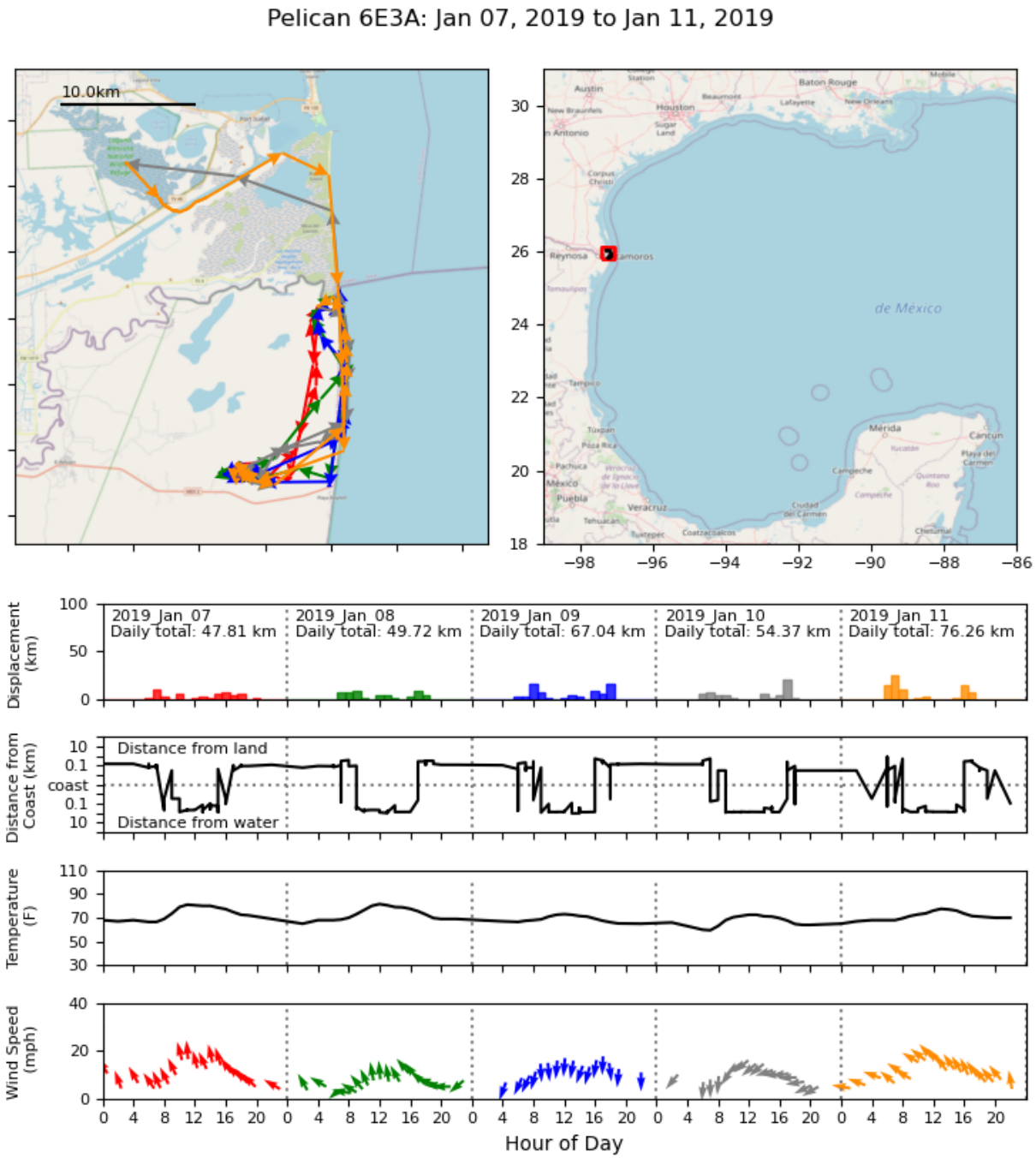

Figure 800 - Maps and graphs showing movements of 6E3A between 2019-01-07 and 2019-01-10 inclusive.

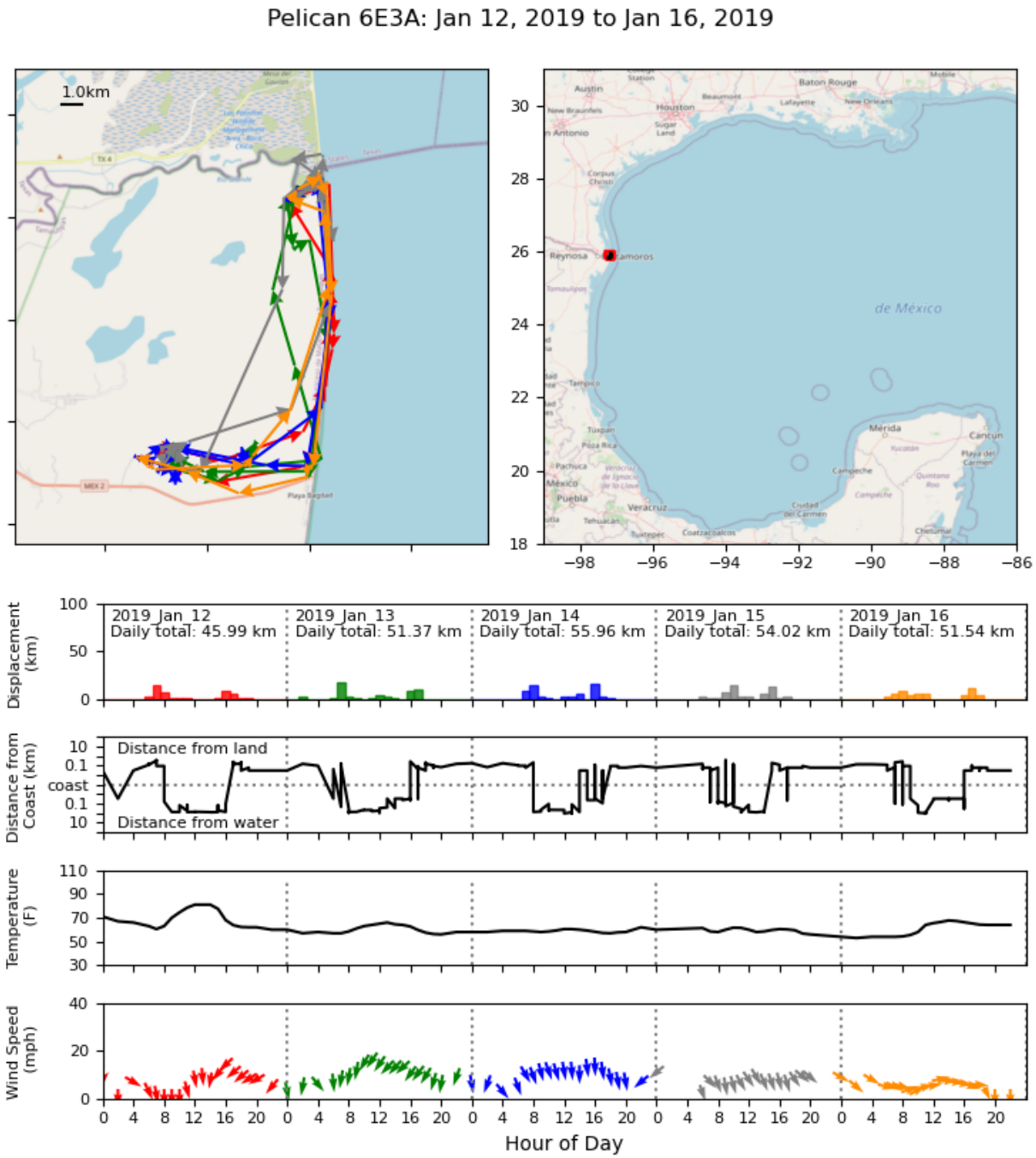

Figure 801 - Maps and graphs showing movements of 6E3A between 2019-01-12 and 2019-01-15 inclusive.

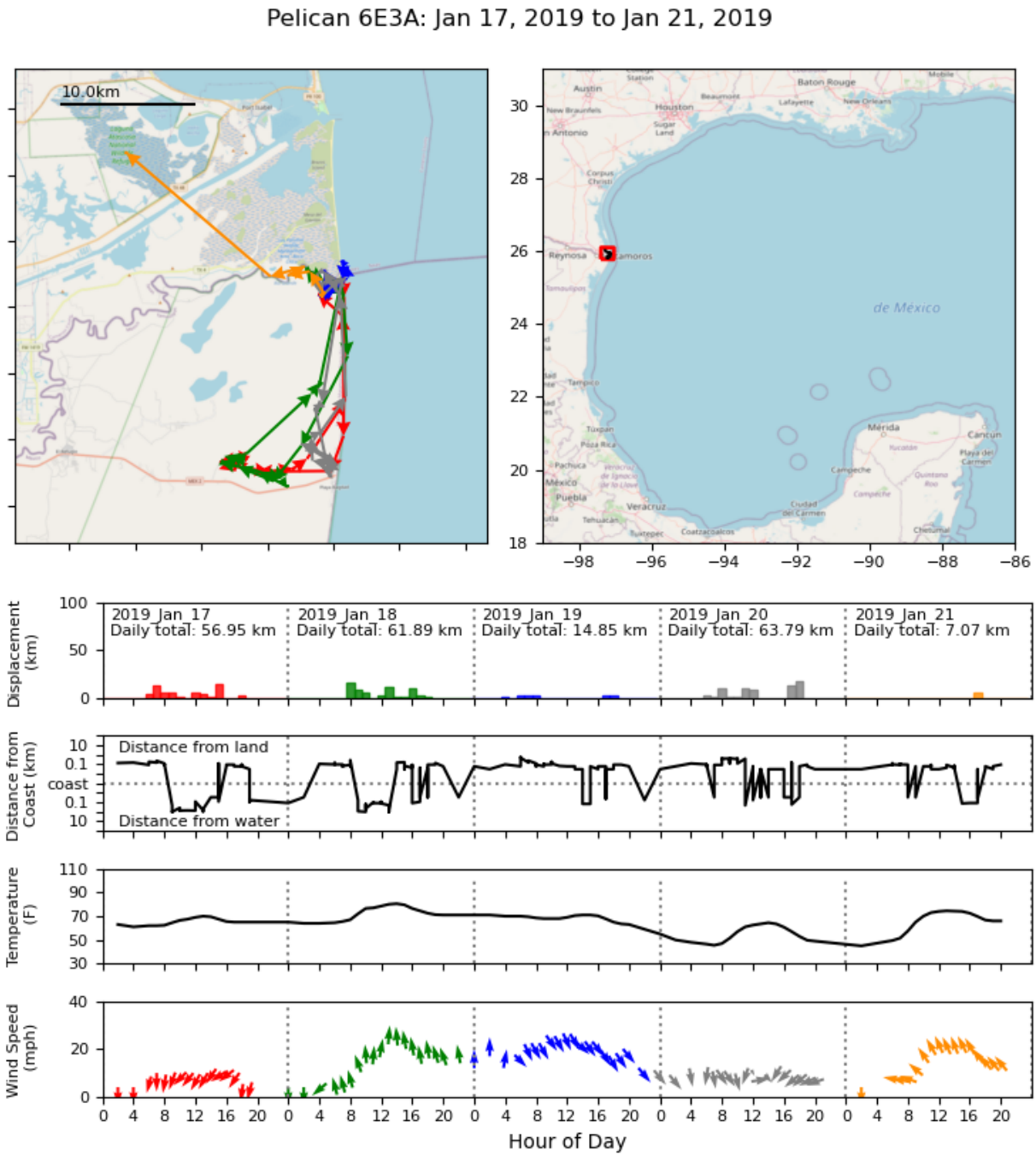

Figure 802 - Maps and graphs showing movements of 6E3A between 2019-01-17 and 2019-01-20 inclusive.

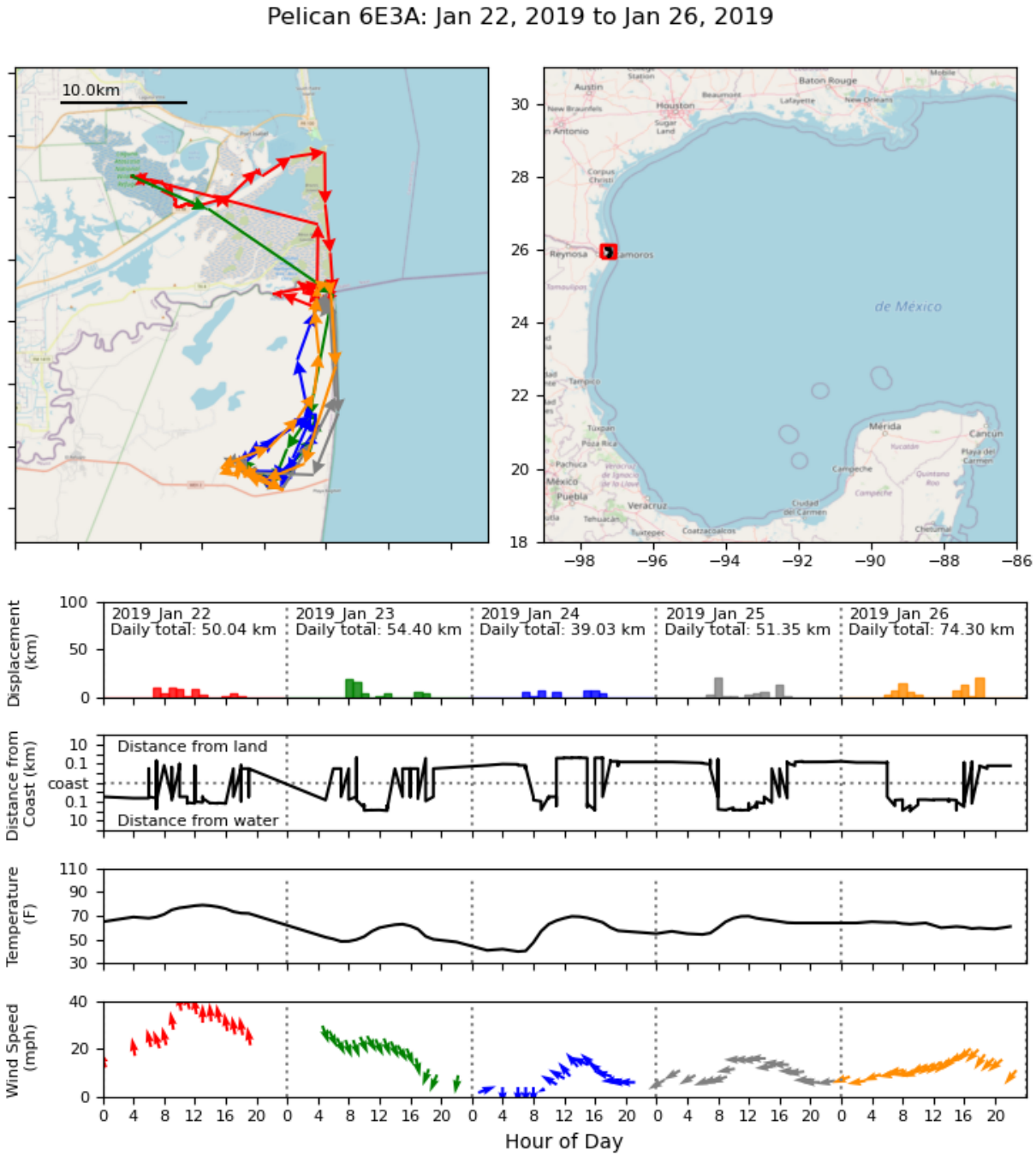

Figure 803 - Maps and graphs showing movements of 6E3A between 2019-01-22 and 2019-01-25 inclusive.

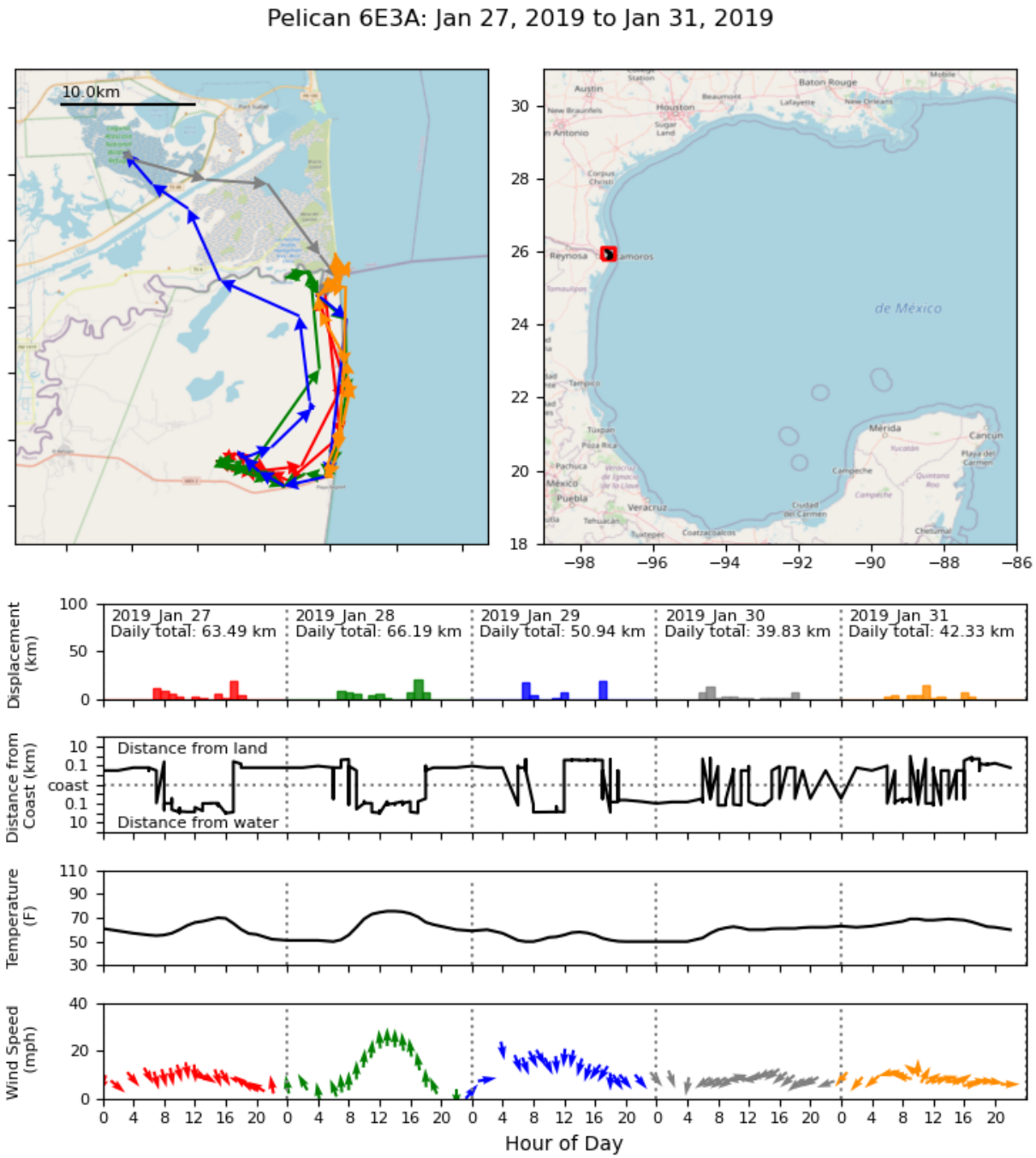

Figure 804 - Maps and graphs showing movements of 6E3A between 2019-01-27 and 2019-01-30 inclusive.

Pelican 62A3 - Active from November 19, 2018 to December 02, 2018

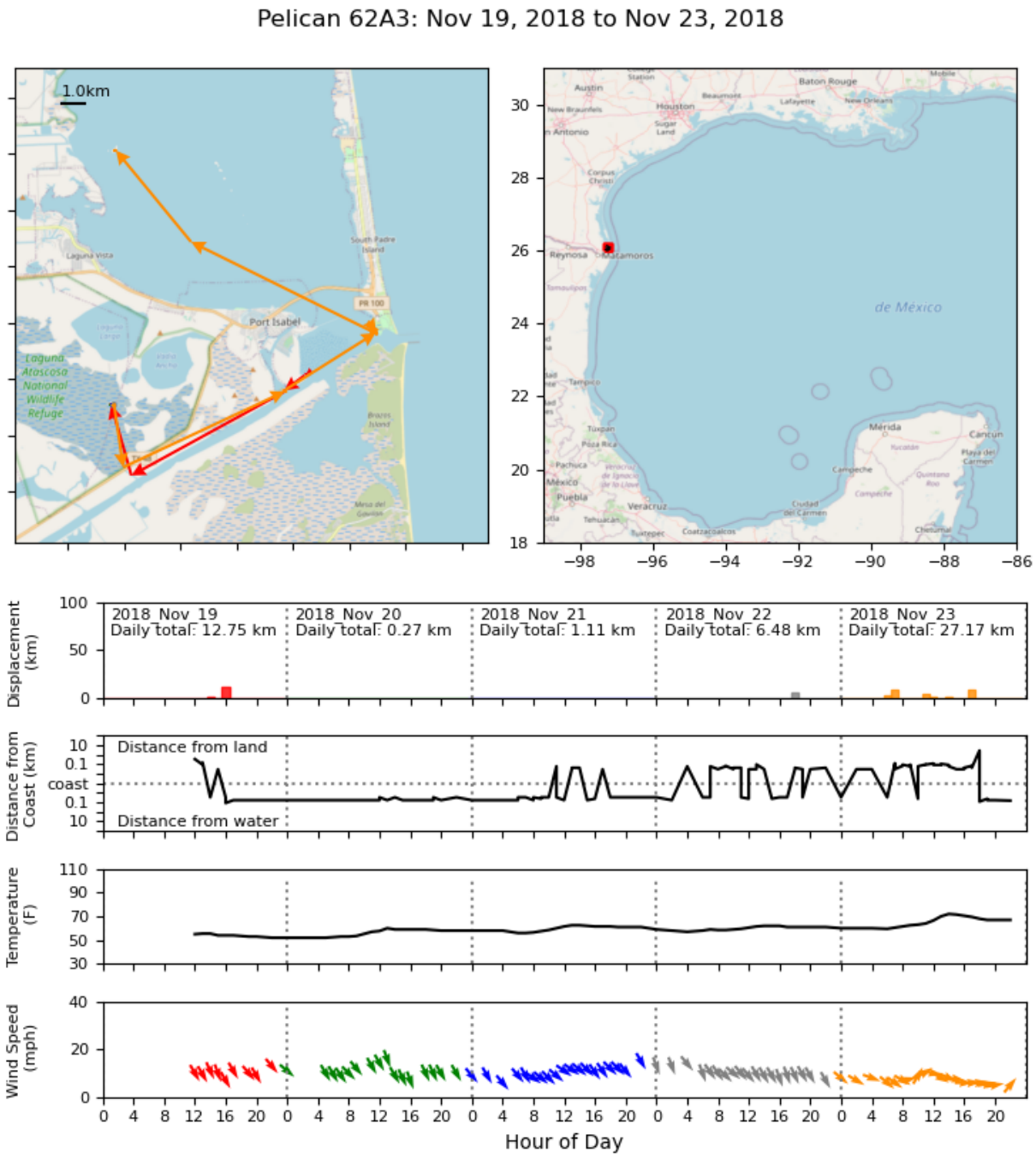

Figure 805 - Maps and graphs showing movements of 62A3 between 2018-11-19 and 2018-11-22 inclusive.

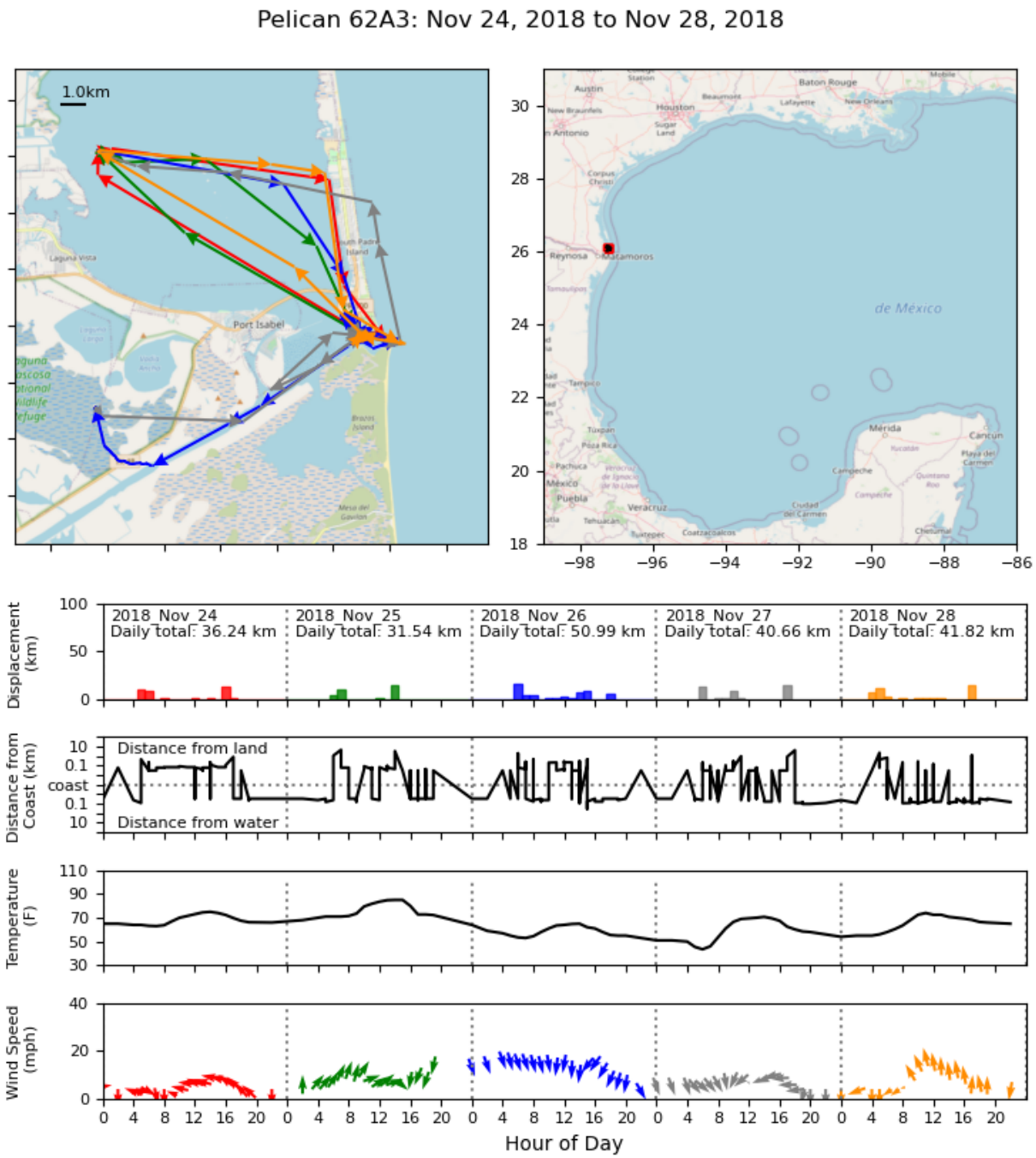

Figure 806 - Maps and graphs showing movements of 62A3 between 2018-11-24 and 2018-11-27 inclusive.

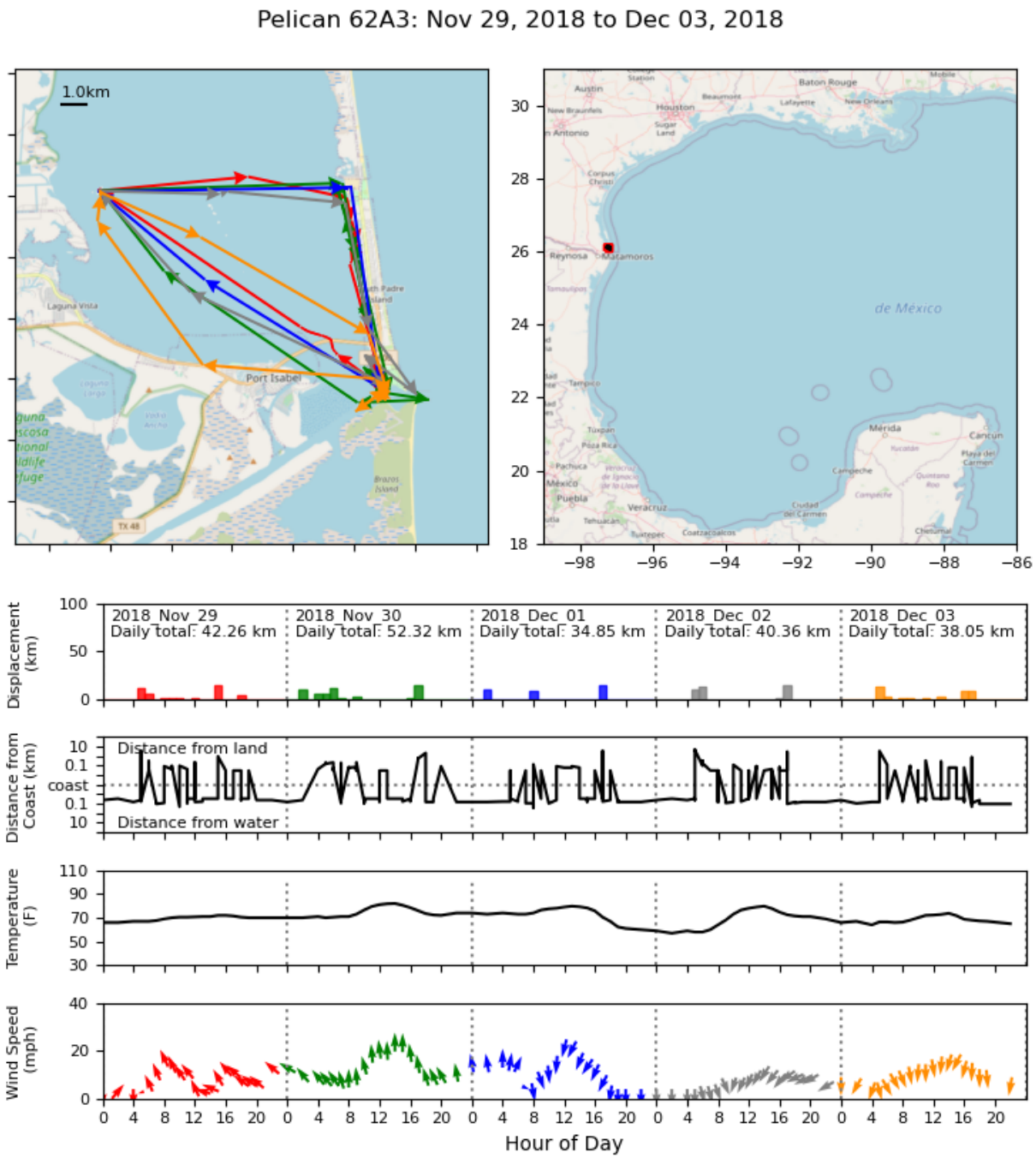

Figure 807 - Maps and graphs showing movements of 62A3 between 2018-11-29 and 2018-12-02 inclusive.

Pelican 34A1 - Active from November 22, 2018 to December 05, 2018

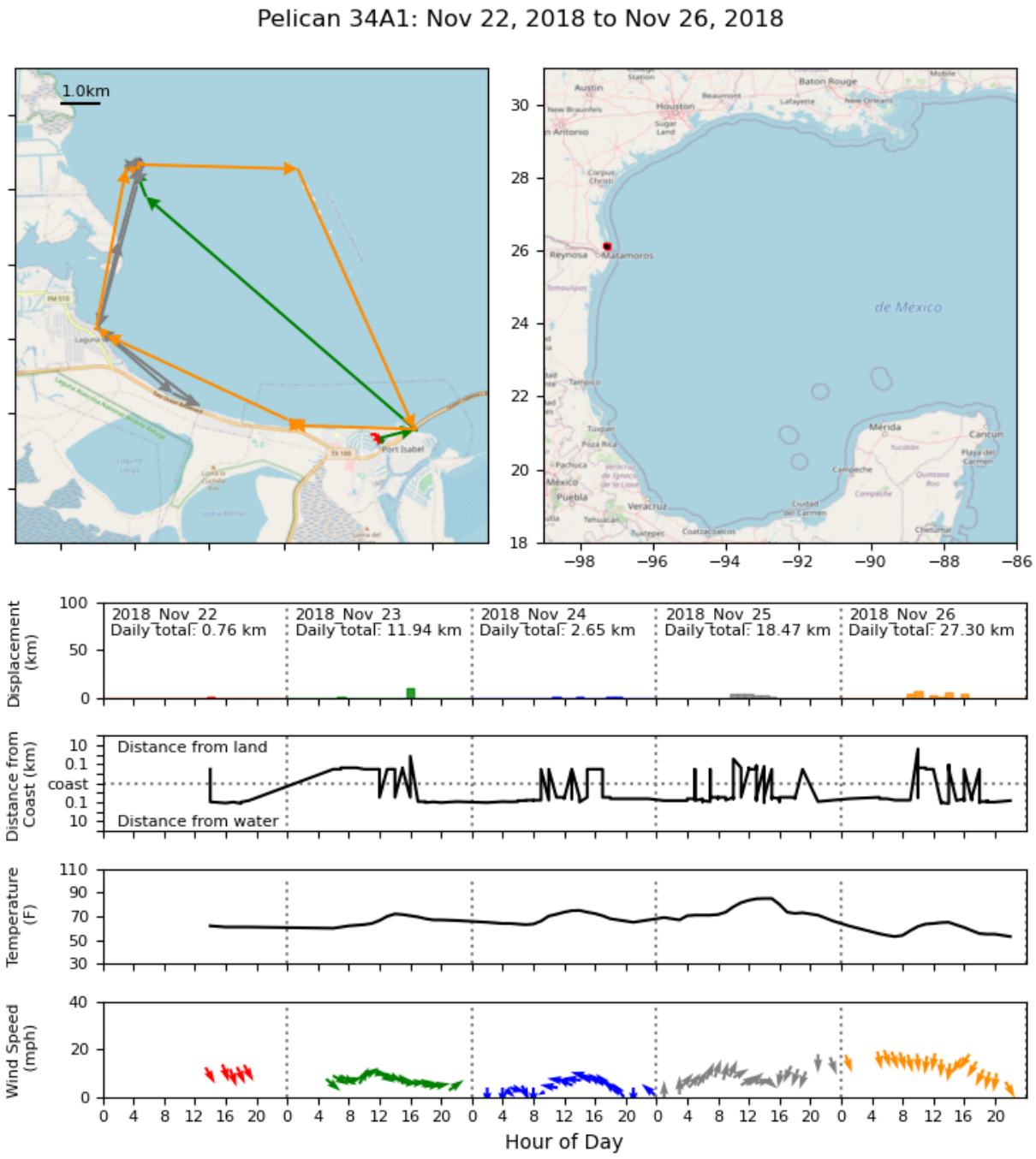

Figure 808 - Maps and graphs showing movements of 34A1 between 2018-11-22 and 2018-11-25 inclusive.

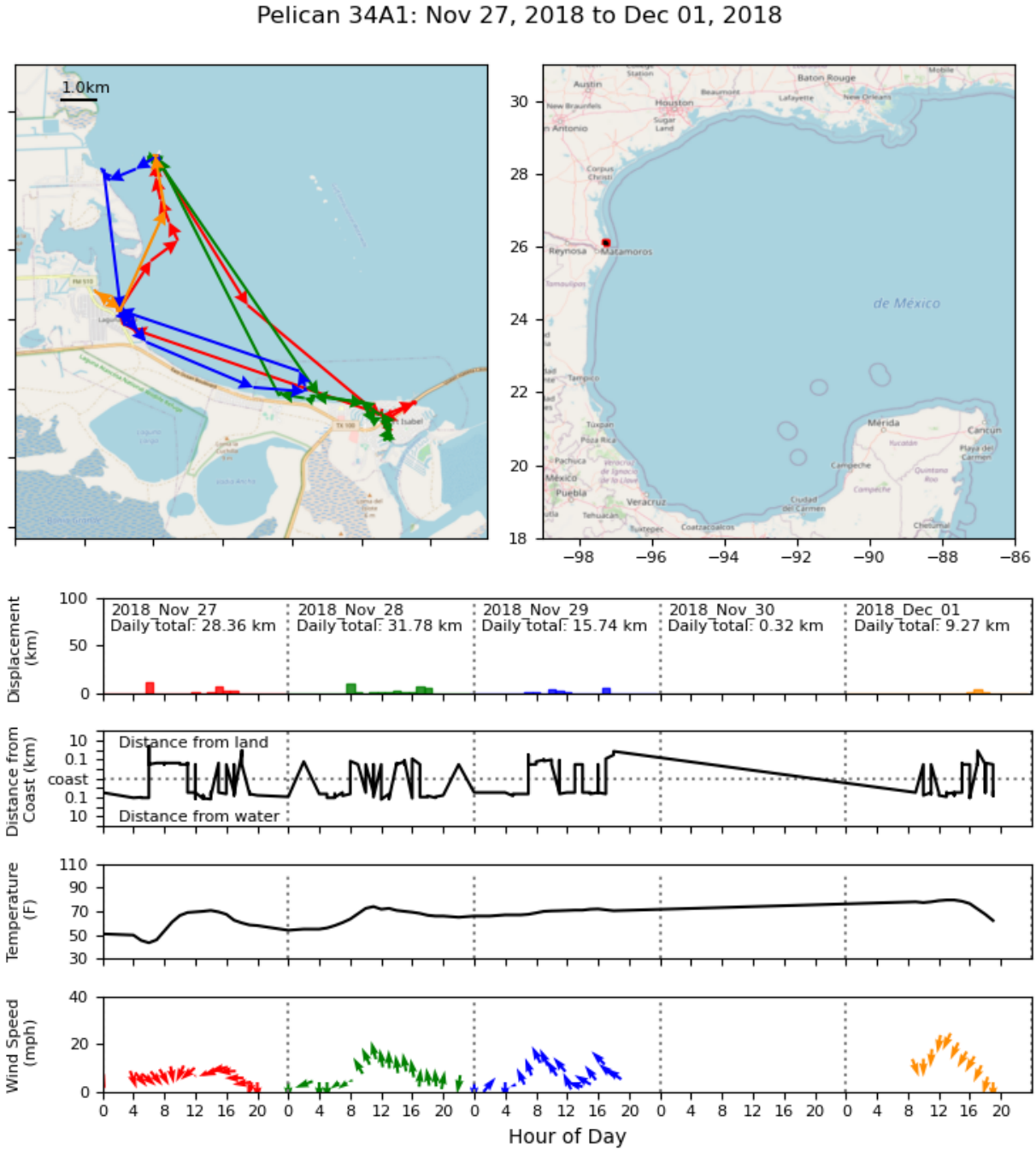

Figure 809 - Maps and graphs showing movements of 34A1 between 2018-11-27 and 2018-11-30 inclusive.

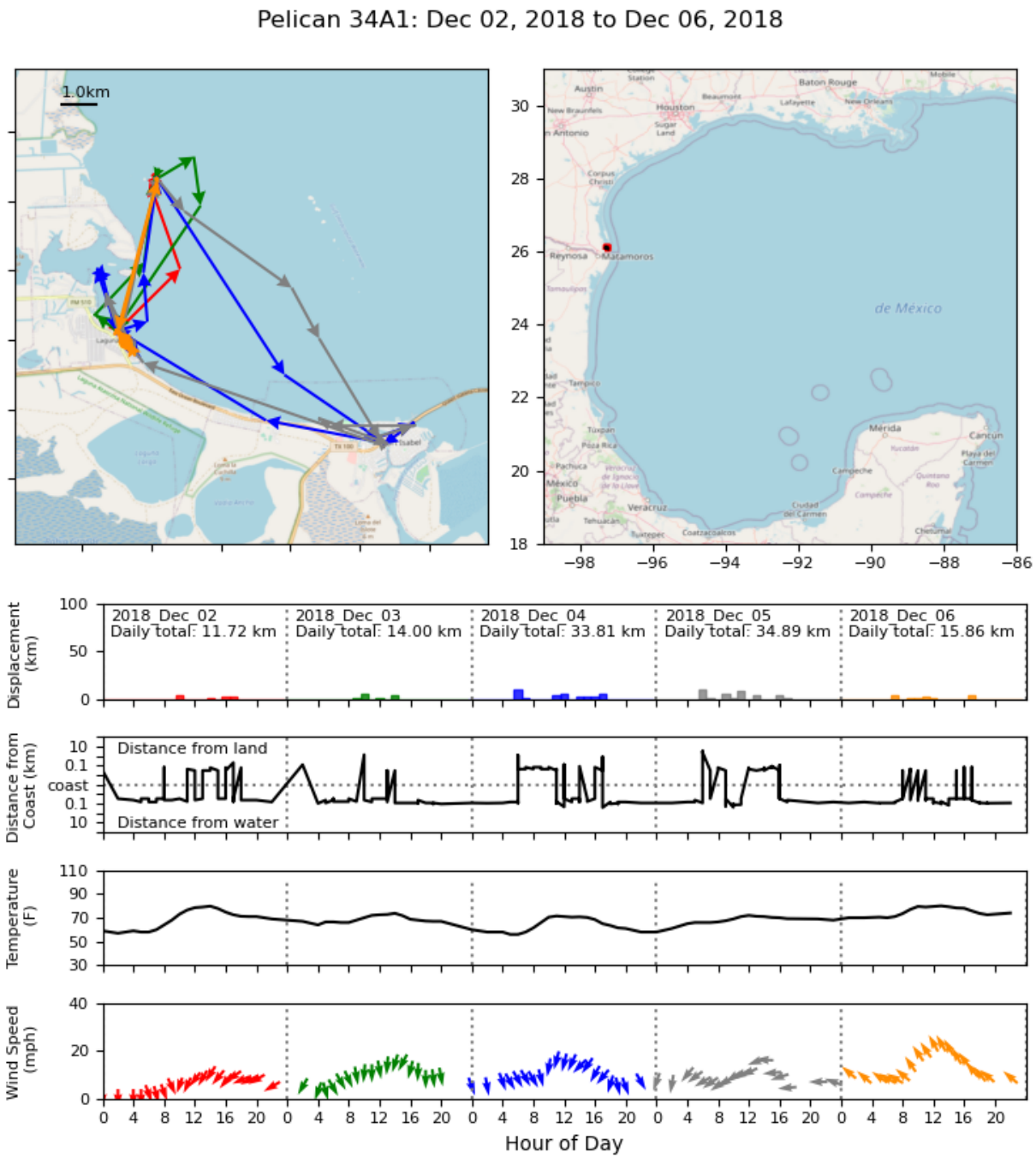

Figure 810 - Maps and graphs showing movements of 34A1 between 2018-12-02 and 2018-12-05 inclusive.

Pelican 523A - Active from November 23, 2018 to March 11, 2019

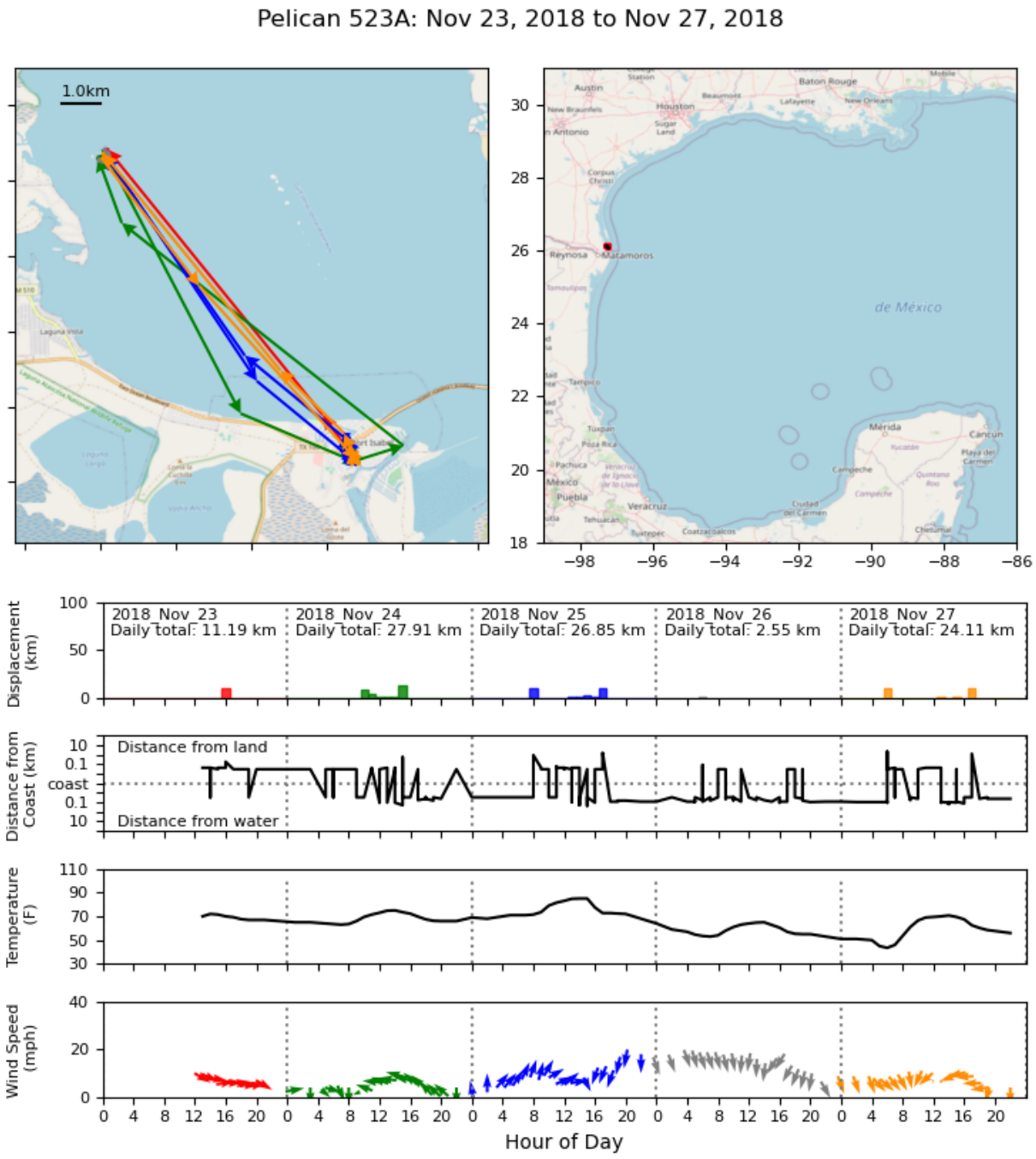

Figure 811 - Maps and graphs showing movements of 523A between 2018-11-23 and 2018-11-26 inclusive.

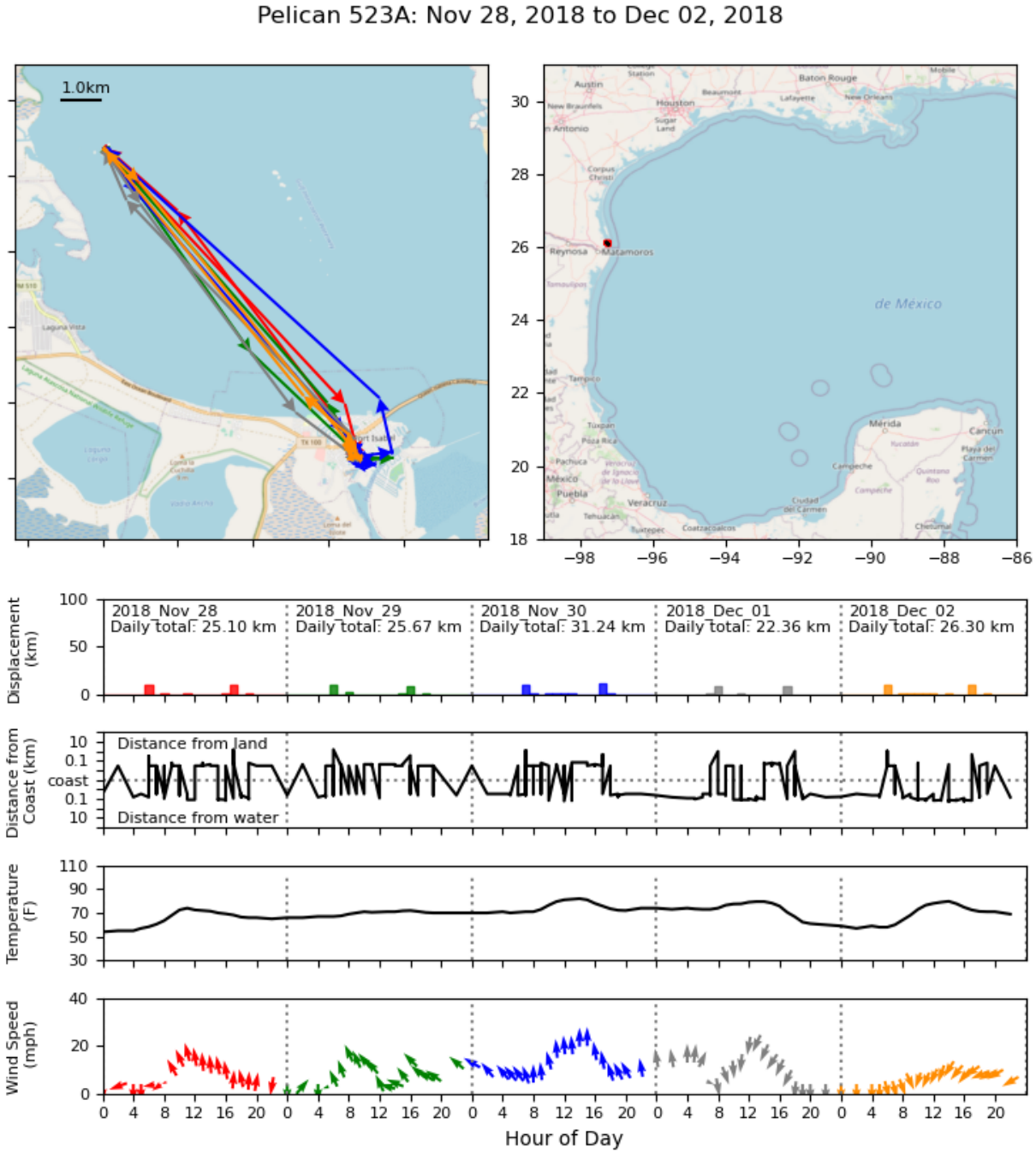

Figure 812 - Maps and graphs showing movements of 523A between 2018-11-28 and 2018-12-01 inclusive.

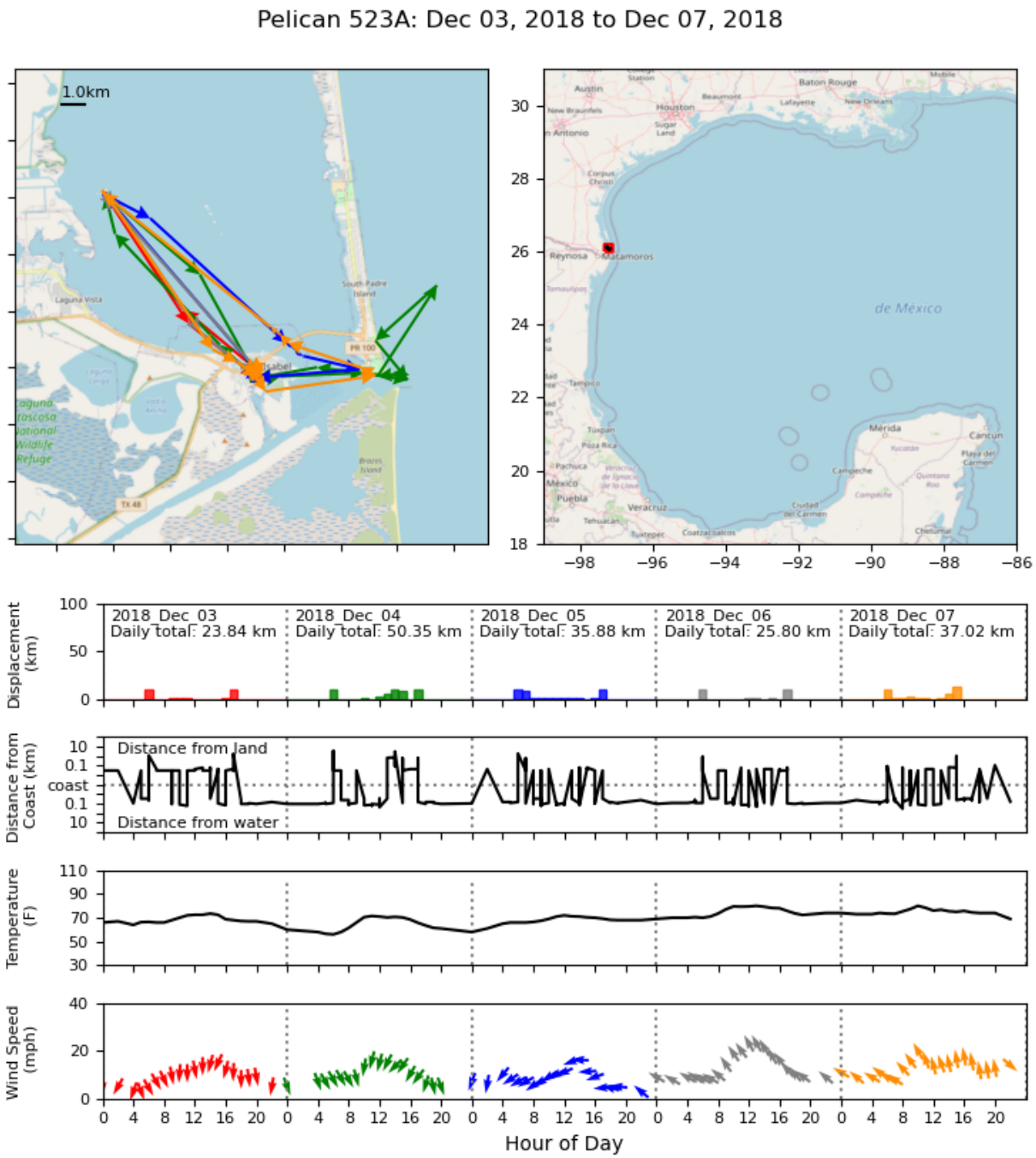

Figure 813 - Maps and graphs showing movements of 523A between 2018-12-03 and 2018-12-06 inclusive.

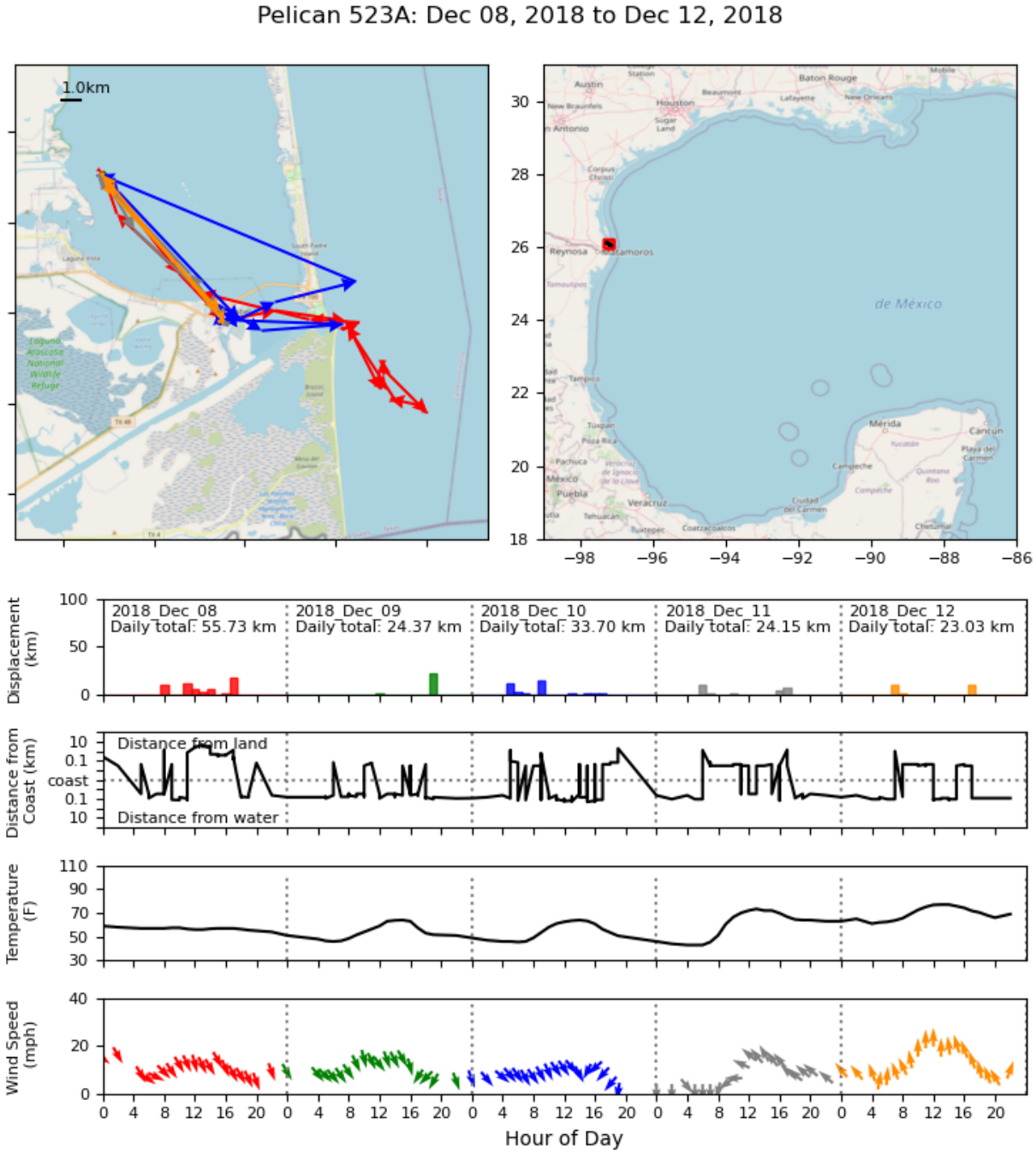

Figure 814 - Maps and graphs showing movements of 523A between 2018-12-08 and 2018-12-11 inclusive.

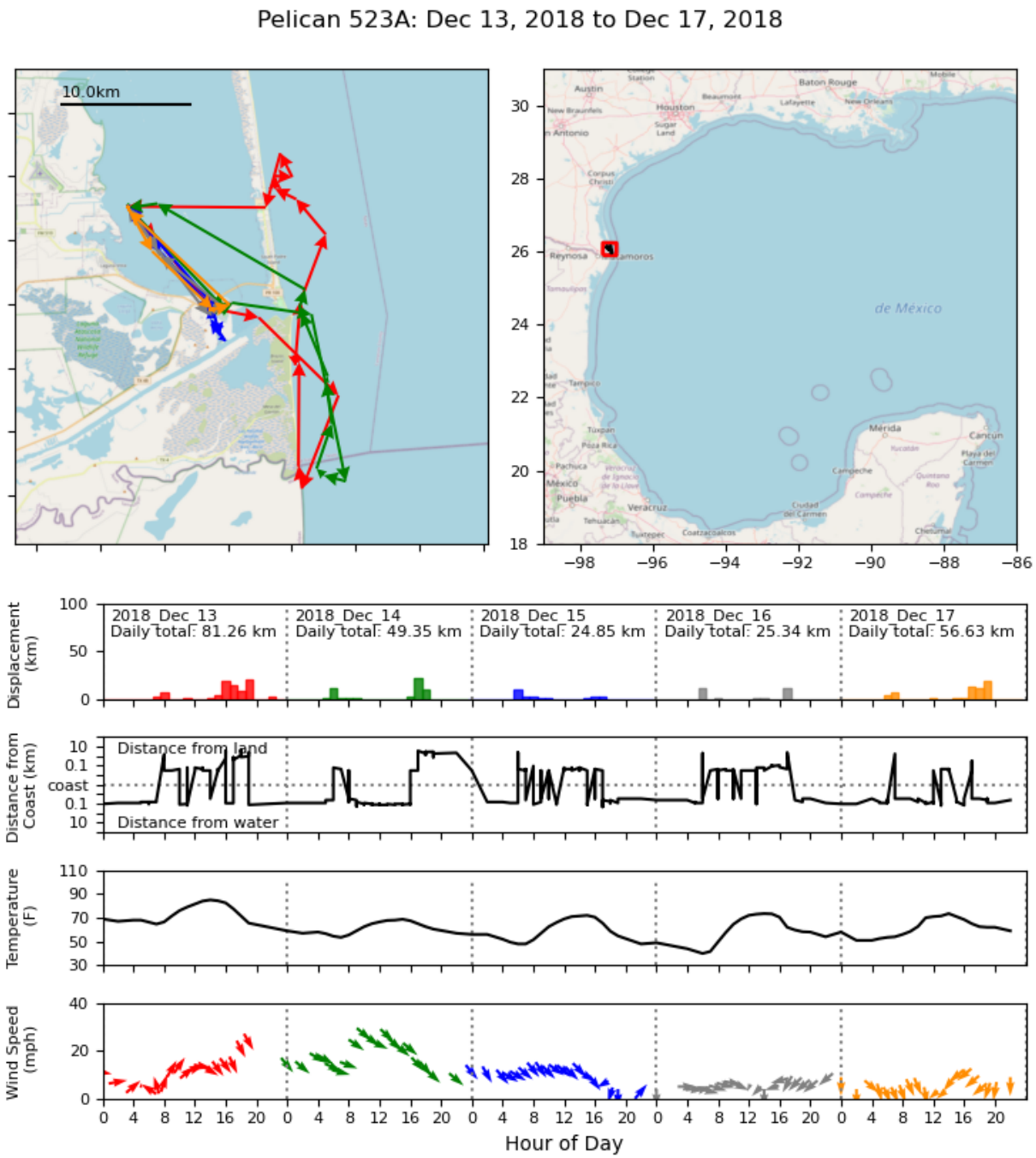

Figure 815 - Maps and graphs showing movements of 523A between 2018-12-13 and 2018-12-16 inclusive.

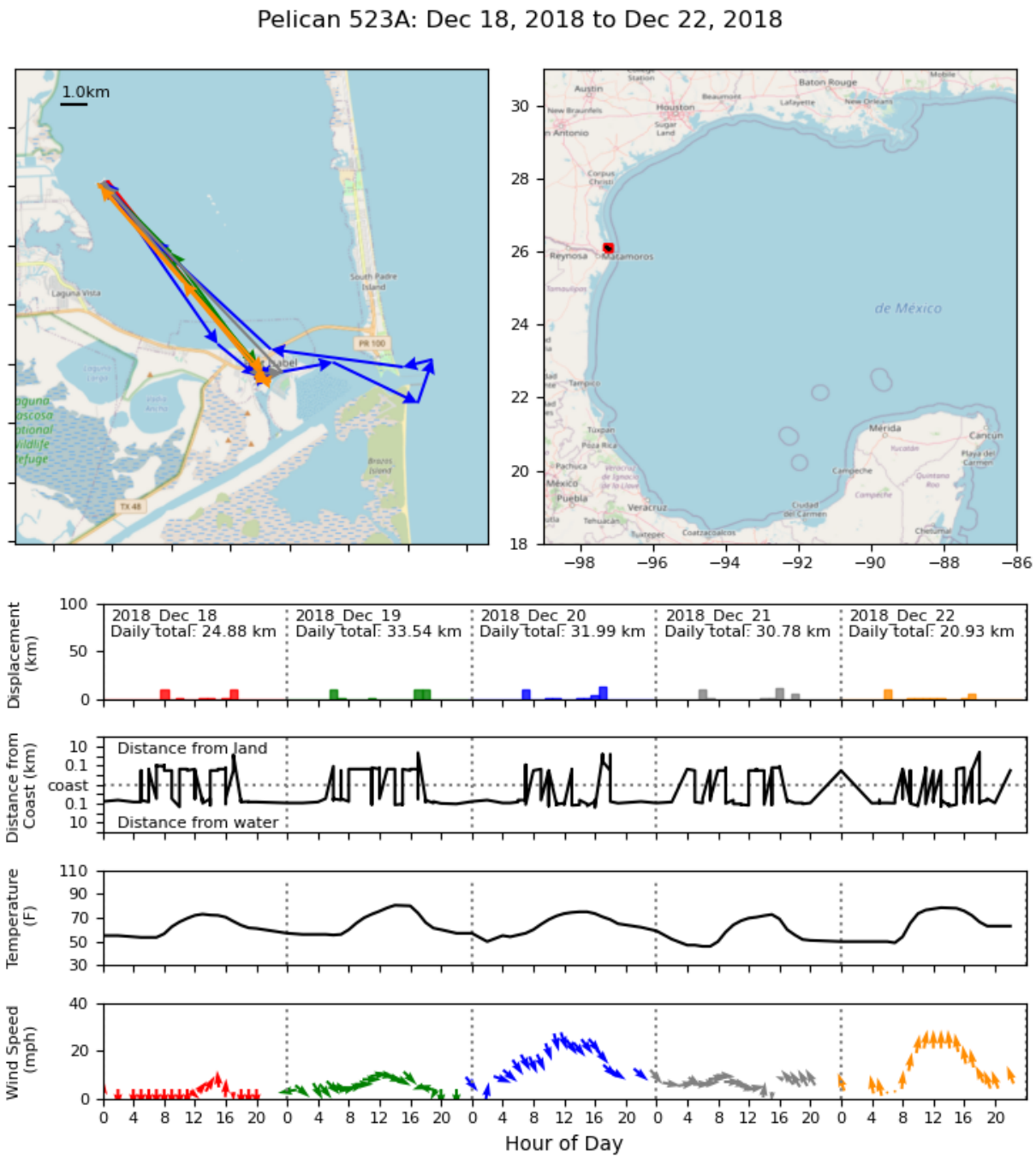

Figure 816 - Maps and graphs showing movements of 523A between 2018-12-18 and 2018-12-21 inclusive.

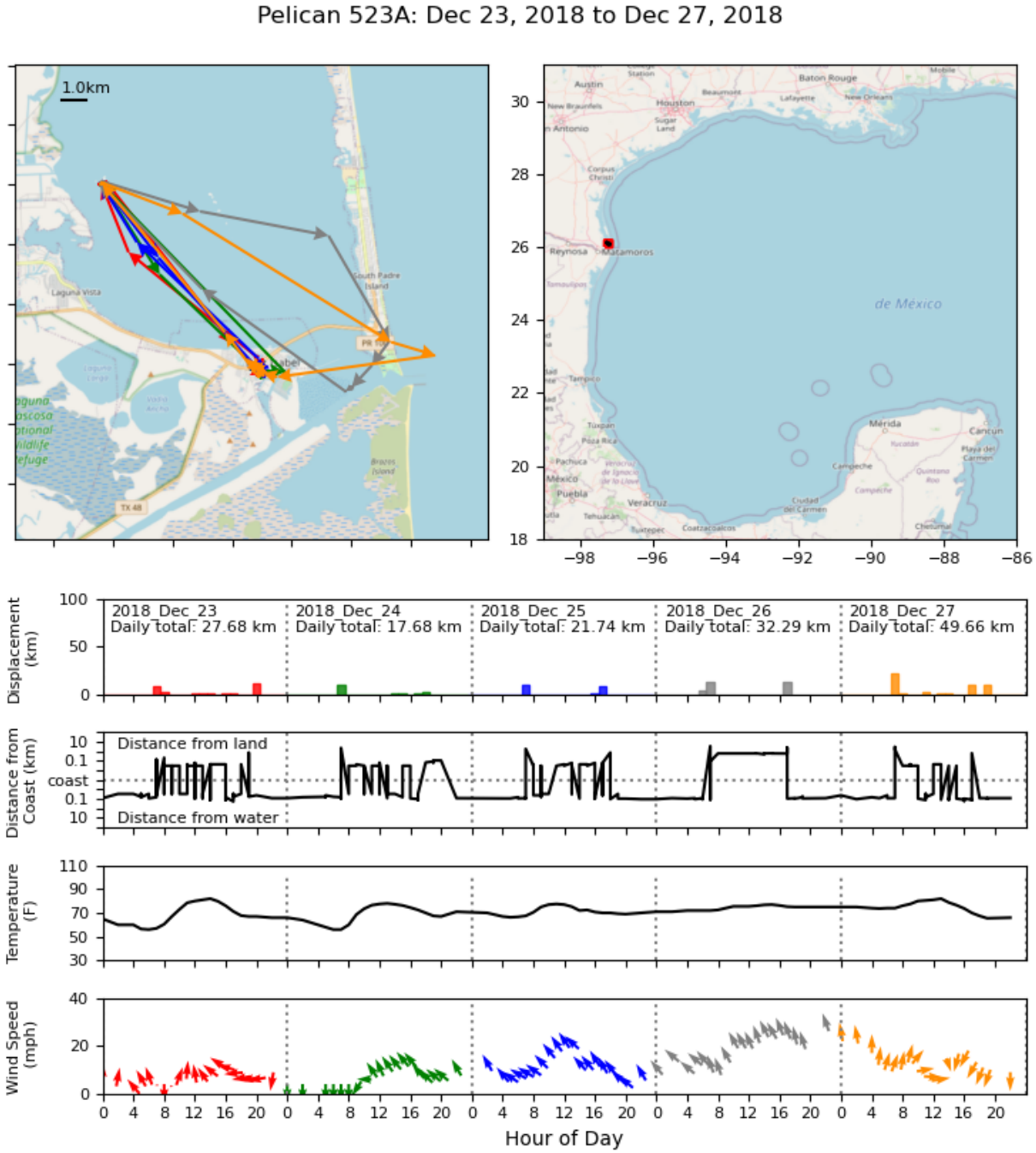

Figure 817 - Maps and graphs showing movements of 523A between 2018-12-23 and 2018-12-26 inclusive.

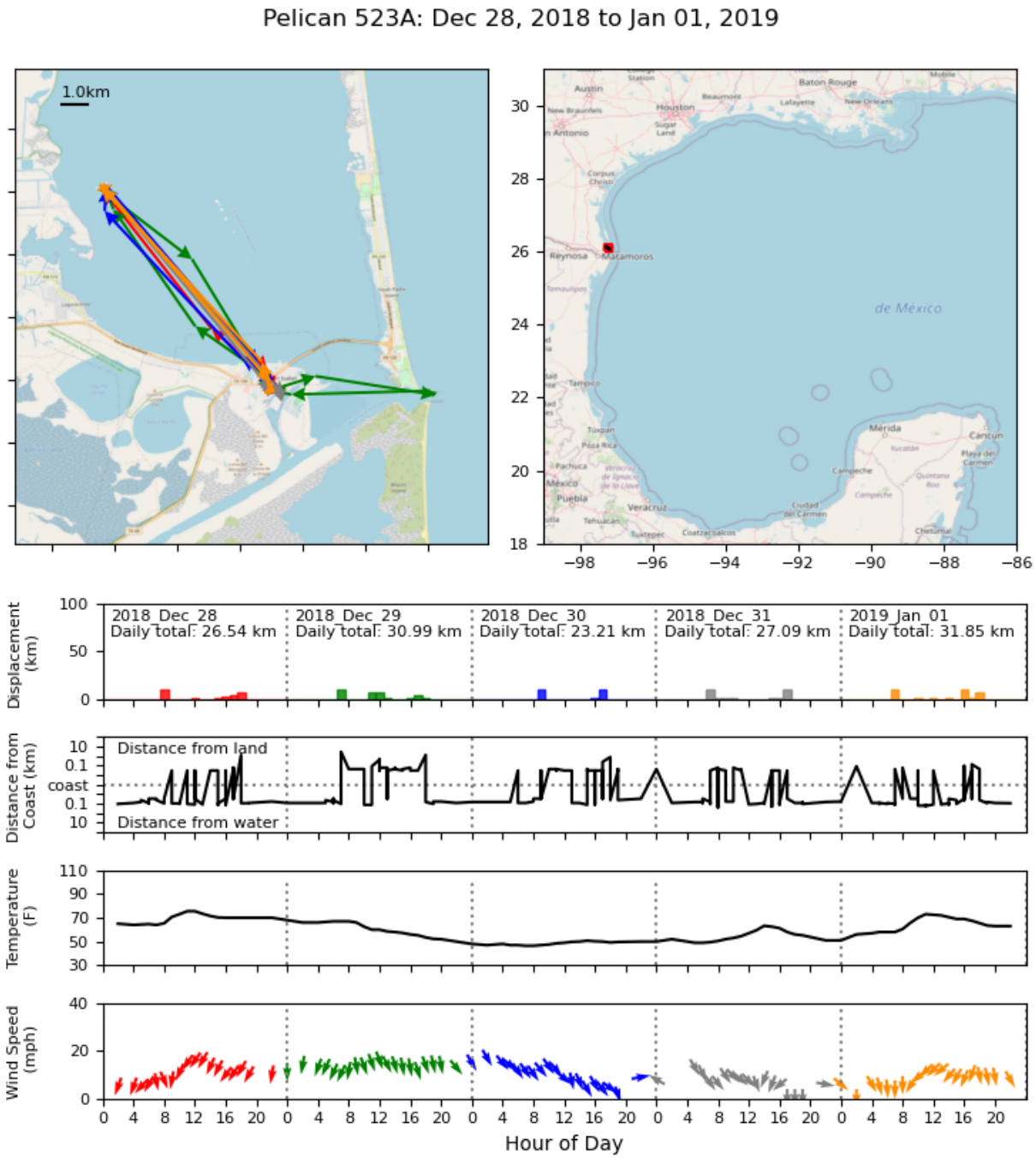

Figure 818 - Maps and graphs showing movements of 523A between 2018-12-28 and 2018-12-31 inclusive.

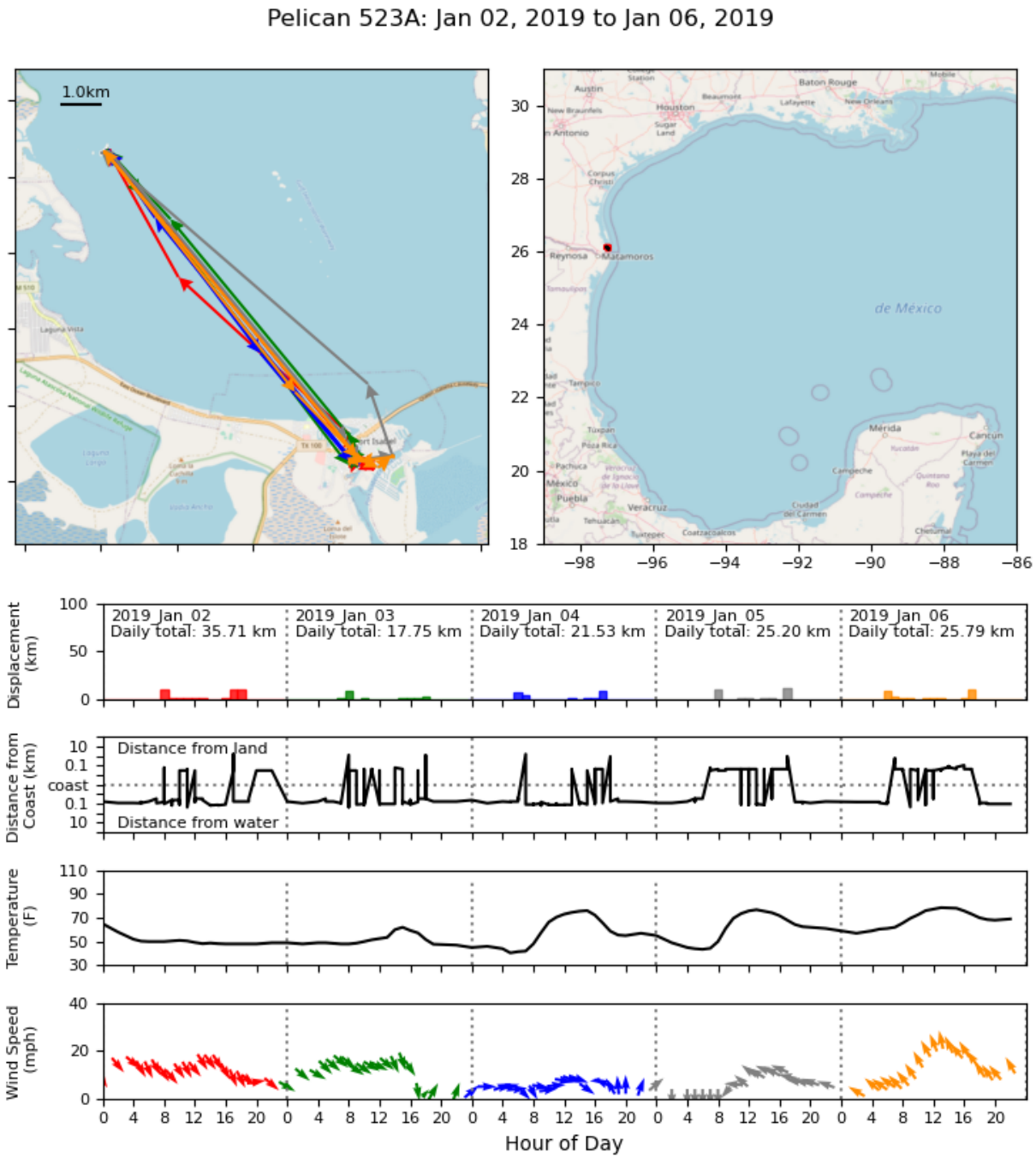

Figure 819 - Maps and graphs showing movements of 523A between 2019-01-02 and 2019-01-05 inclusive.

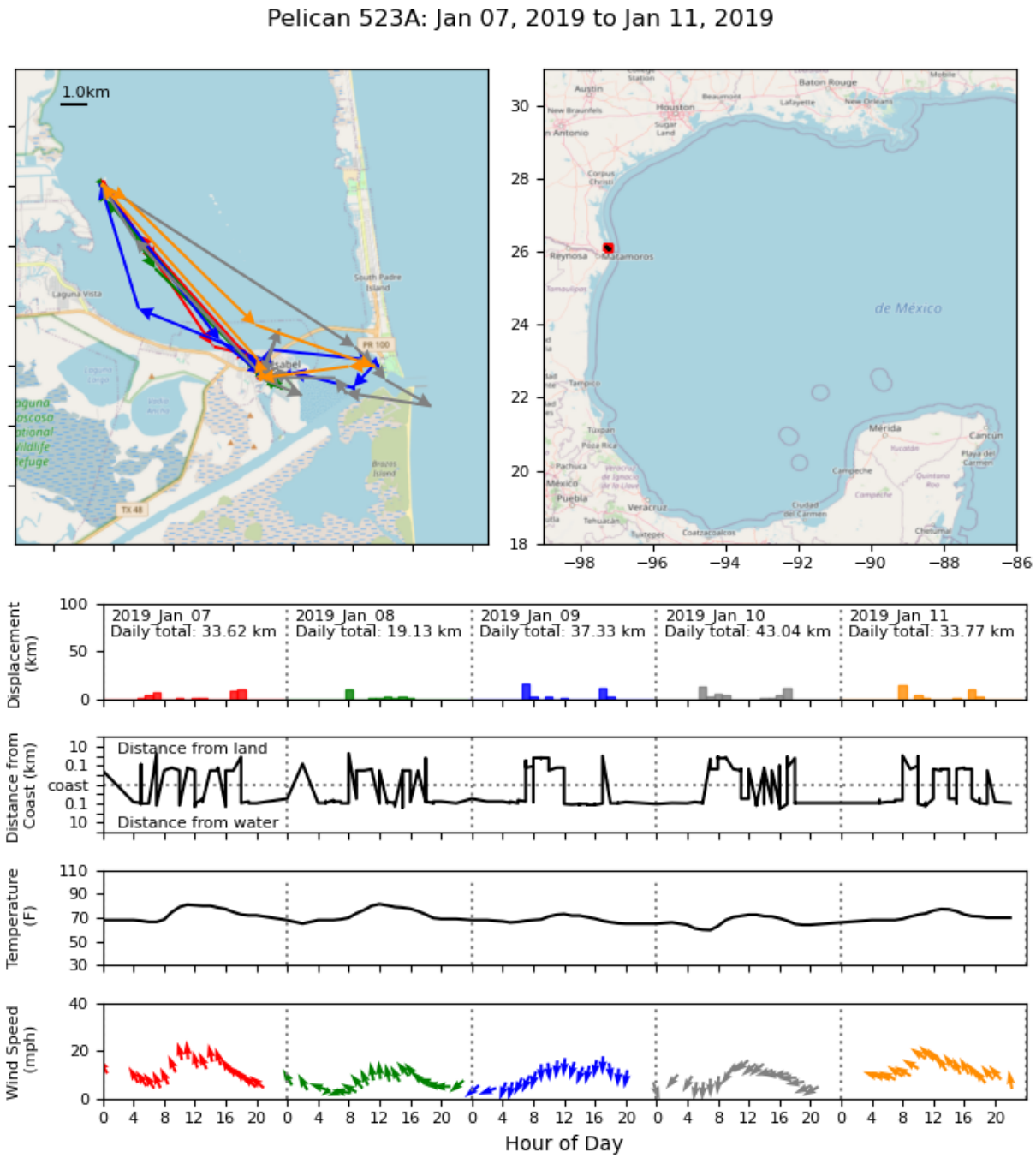

Figure 820 - Maps and graphs showing movements of 523A between 2019-01-07 and 2019-01-10 inclusive.

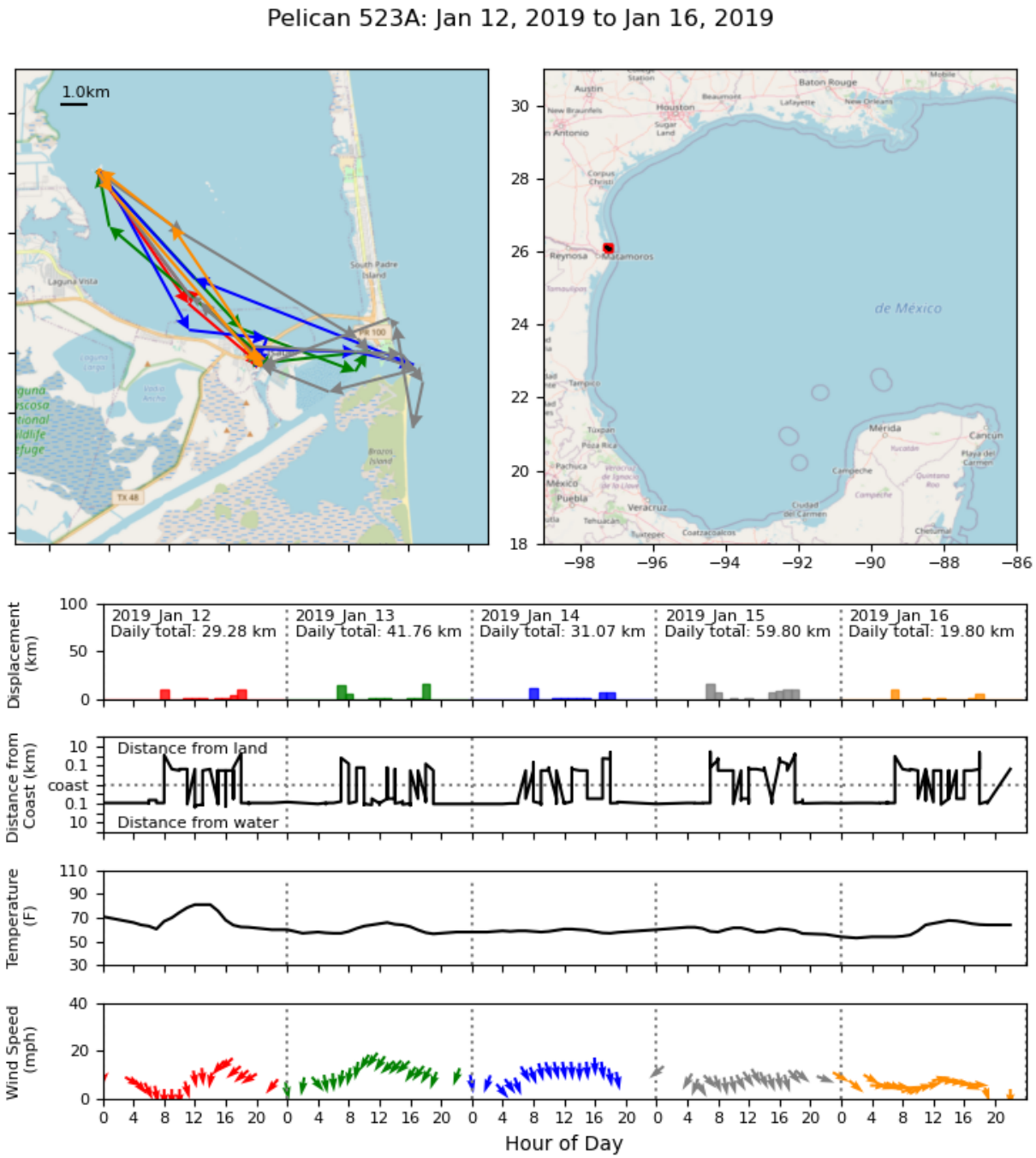

Figure 821 - Maps and graphs showing movements of 523A between 2019-01-12 and 2019-01-15 inclusive.

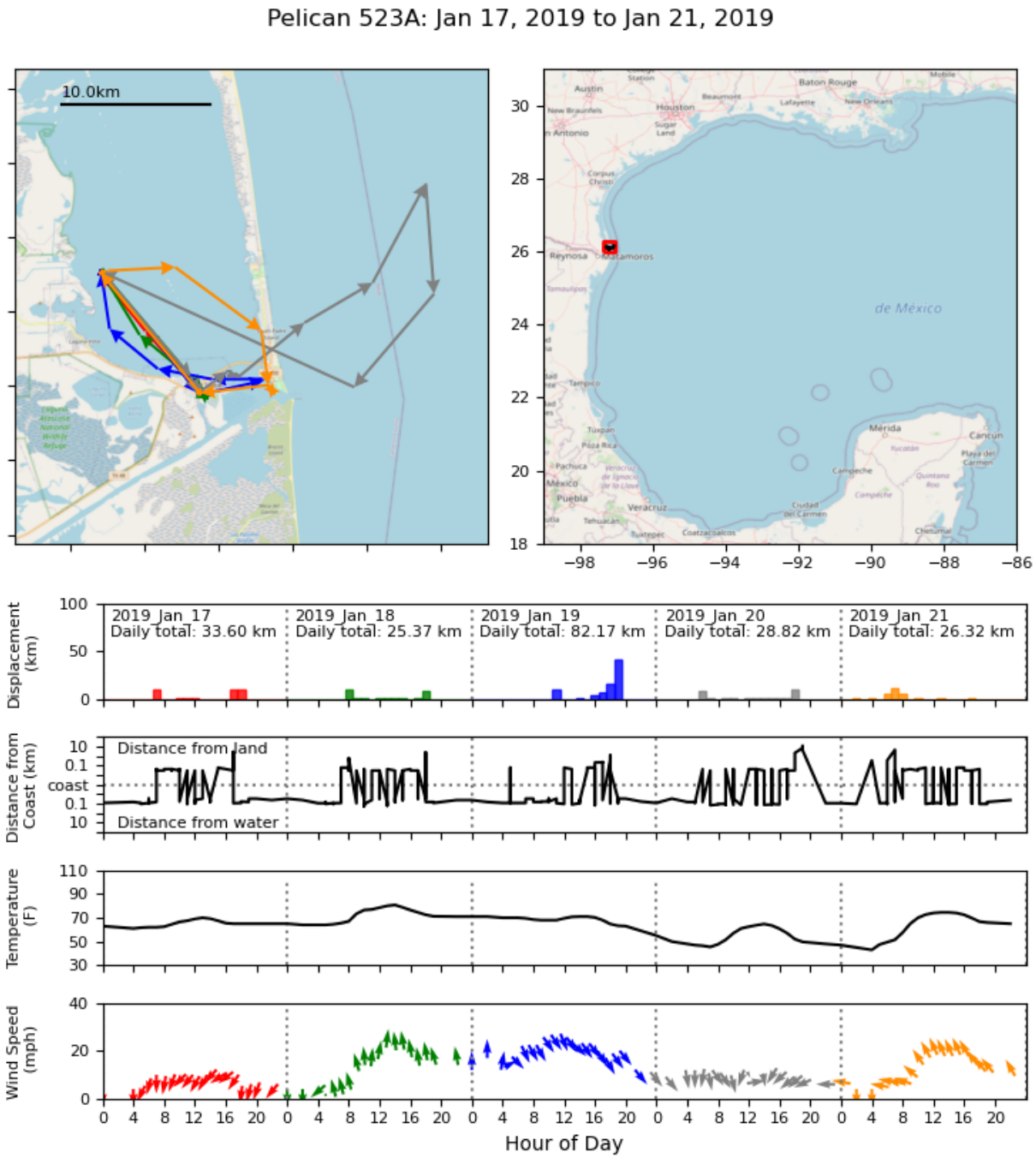

Figure 822 - Maps and graphs showing movements of 523A between 2019-01-17 and 2019-01-20 inclusive.

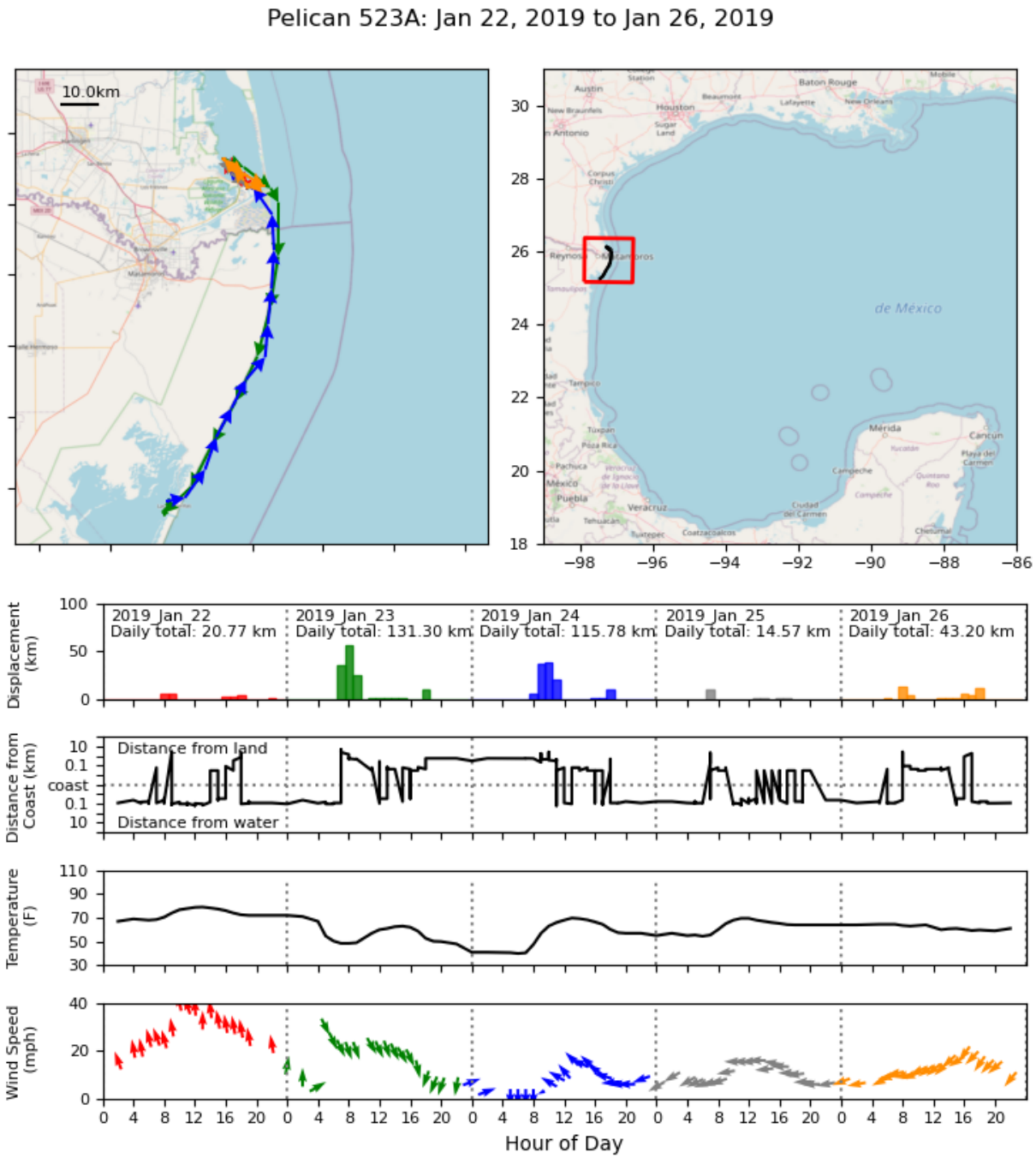

Figure 823 - Maps and graphs showing movements of 523A between 2019-01-22 and 2019-01-25 inclusive.

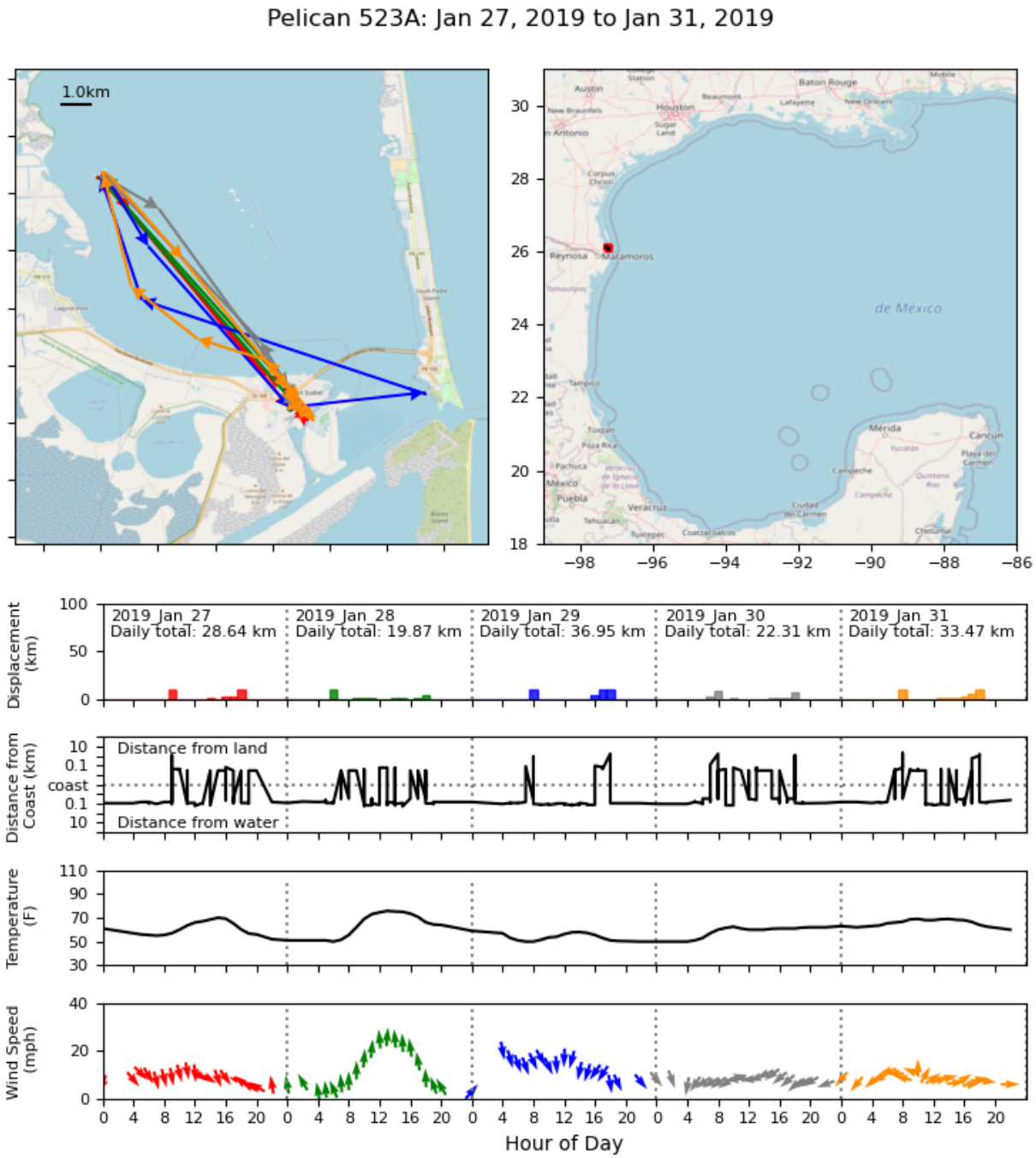

Figure 824 - Maps and graphs showing movements of 523A between 2019-01-27 and 2019-01-30 inclusive.

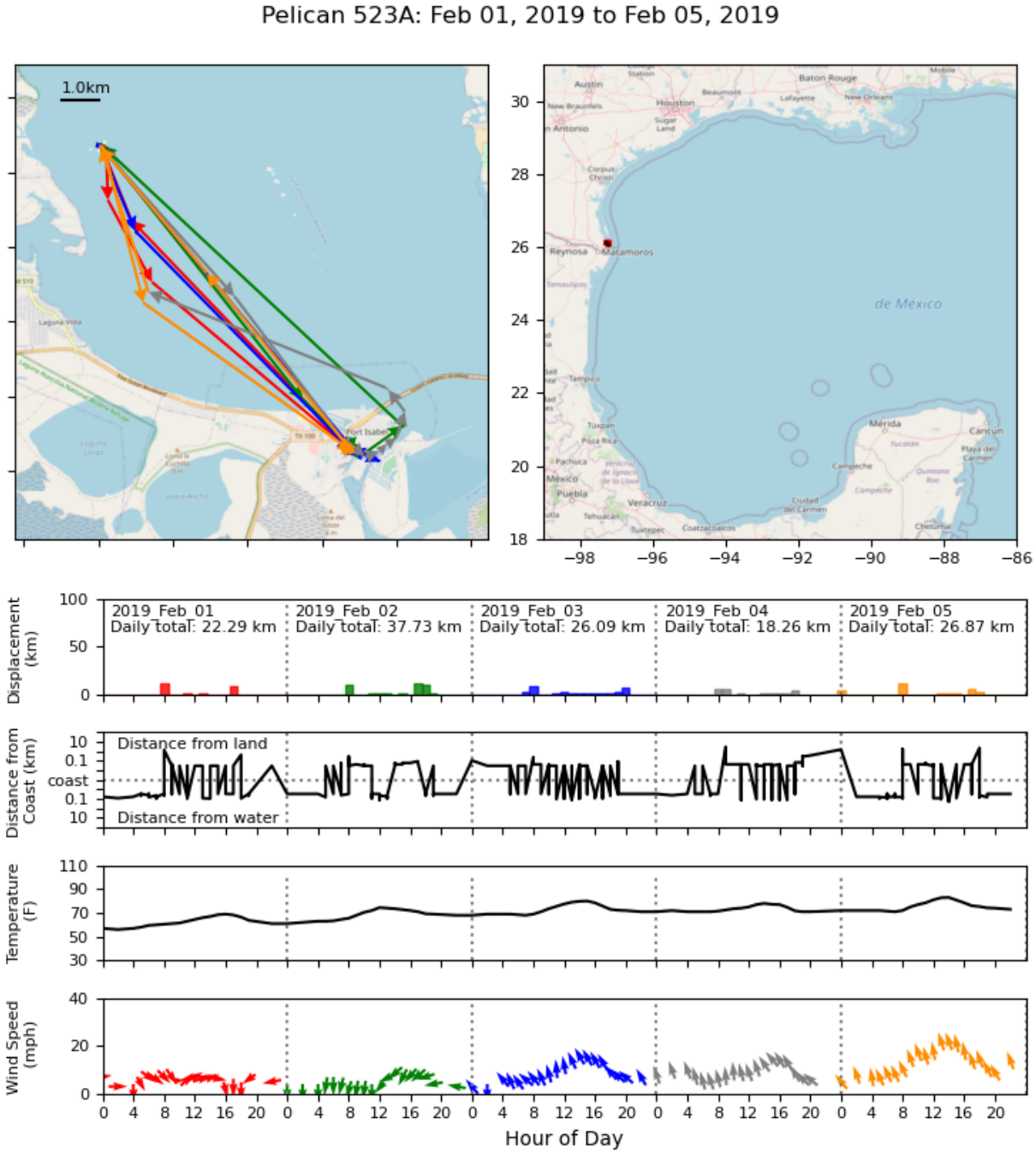

Figure 825 - Maps and graphs showing movements of 523A between 2019-02-01 and 2019-02-04 inclusive.

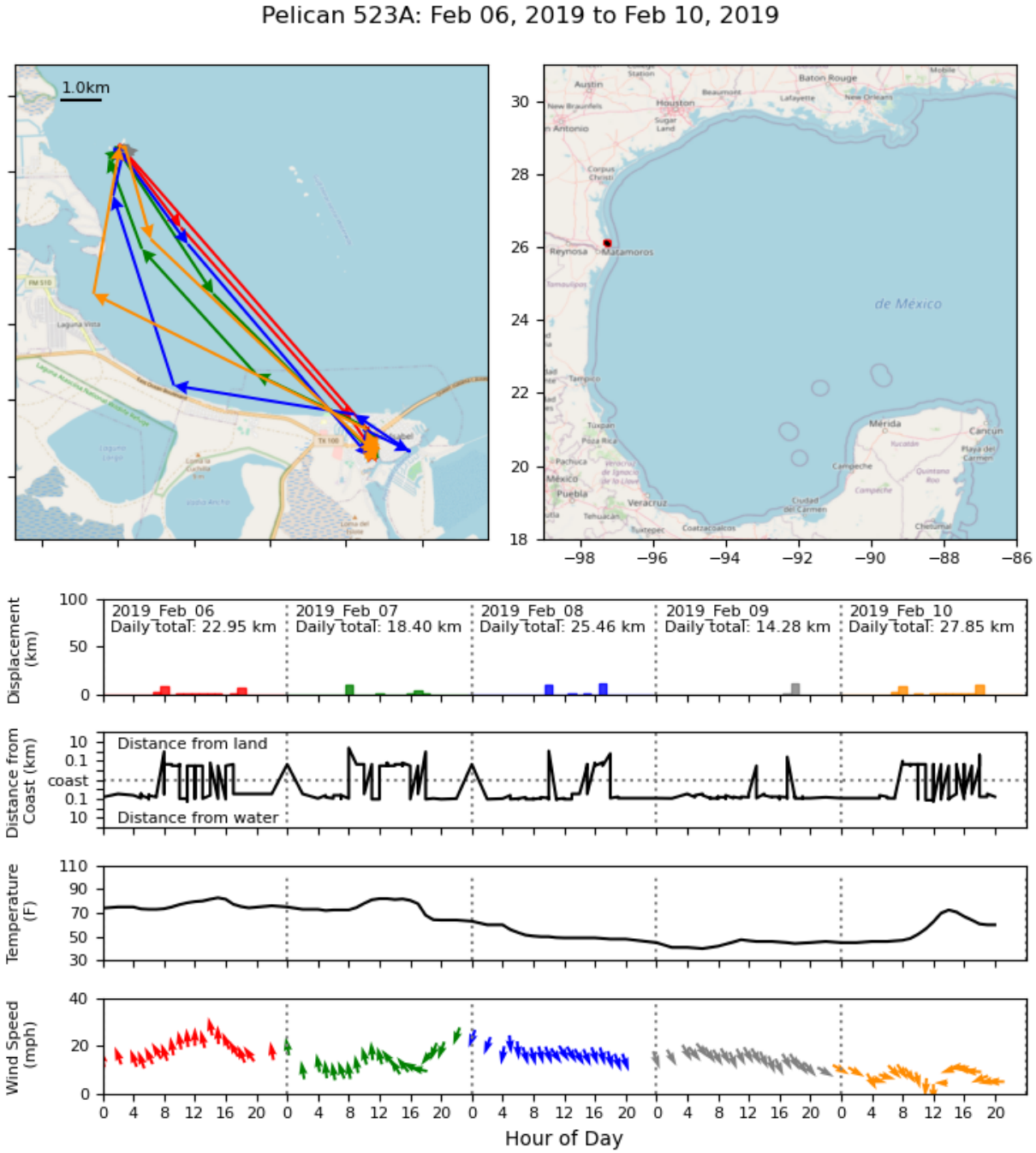

Figure 826 - Maps and graphs showing movements of 523A between 2019-02-06 and 2019-02-09 inclusive.

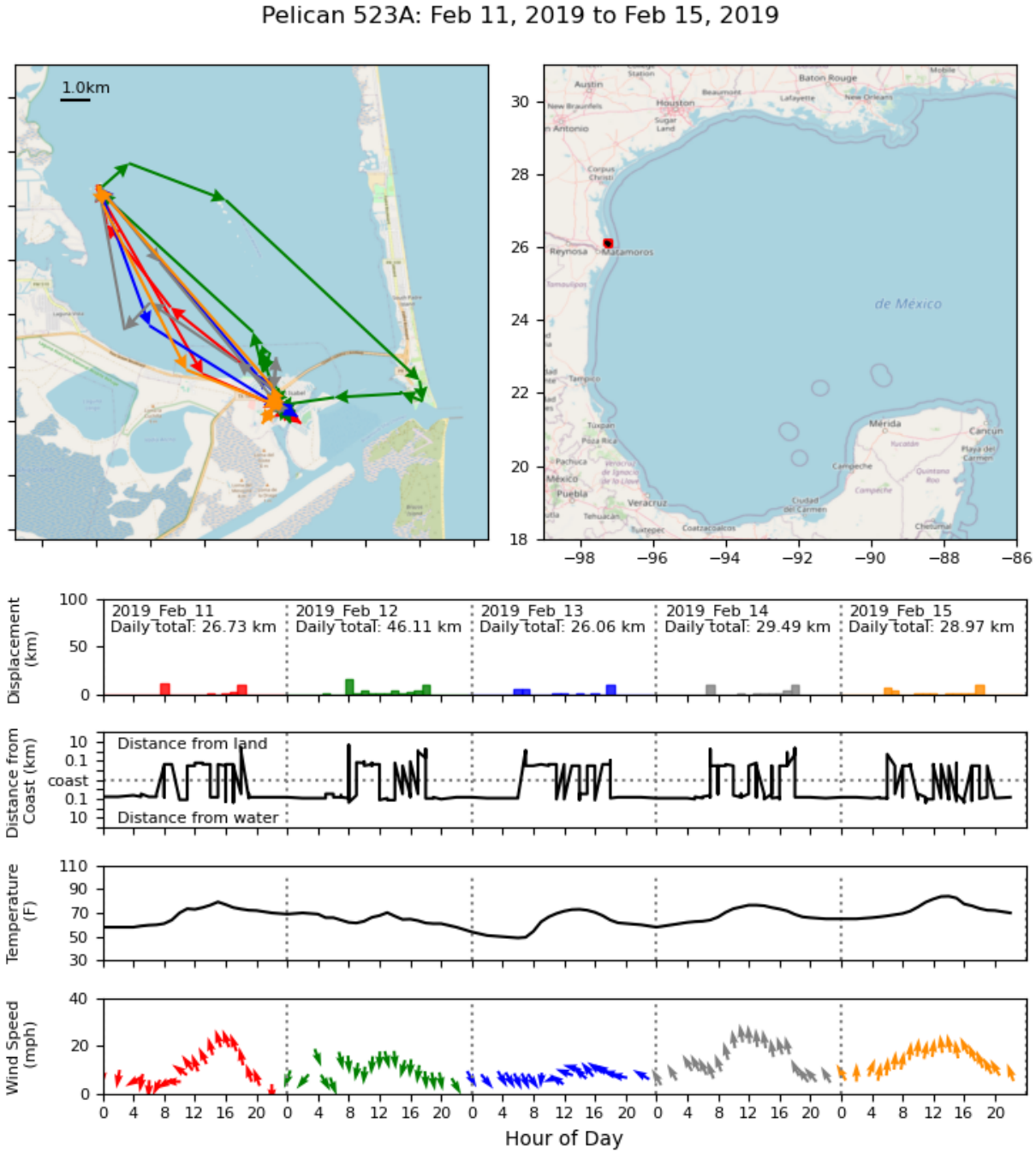

Figure 827 - Maps and graphs showing movements of 523A between 2019-02-11 and 2019-02-14 inclusive.

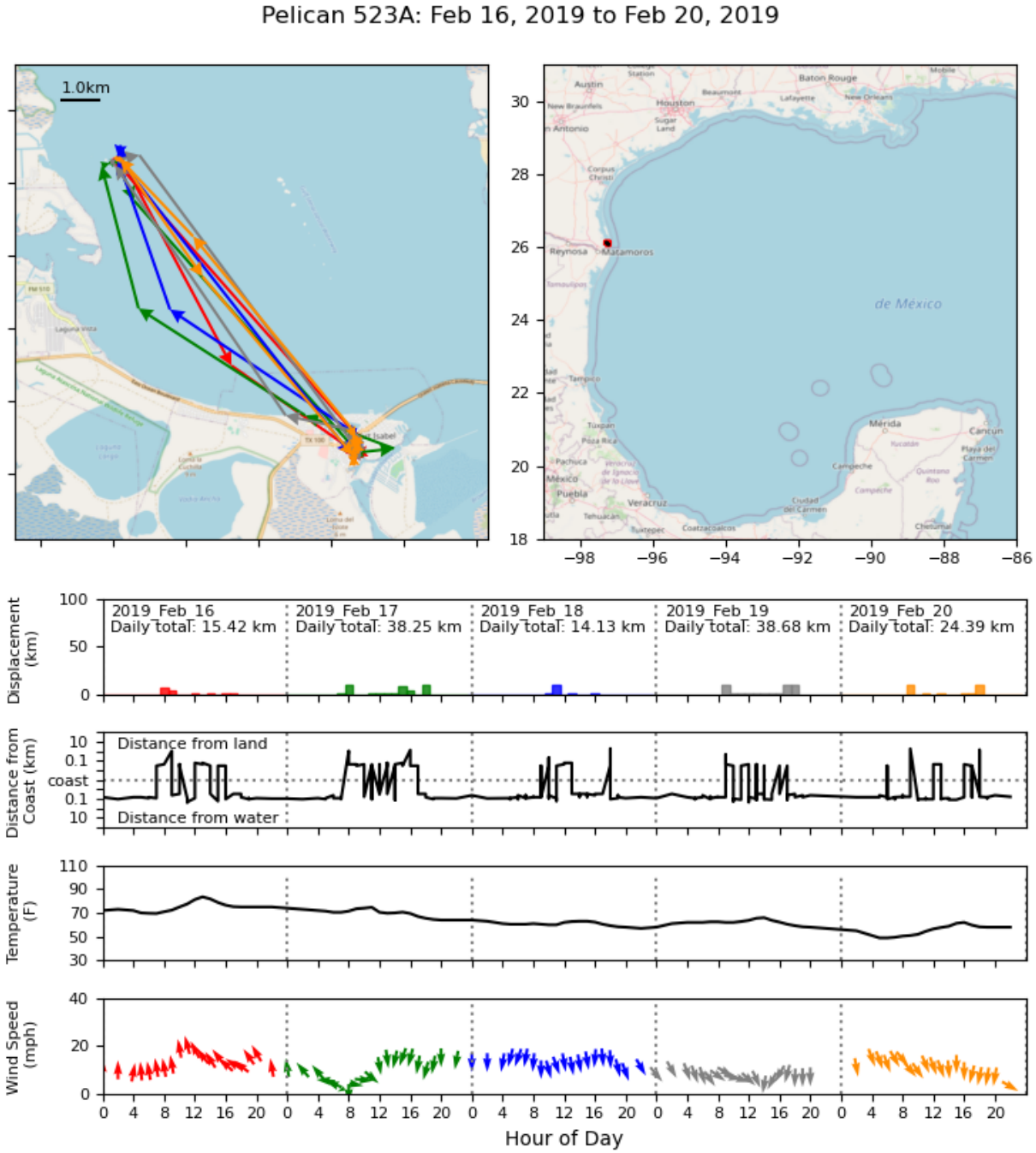

Figure 828 - Maps and graphs showing movements of 523A between 2019-02-16 and 2019-02-19 inclusive.

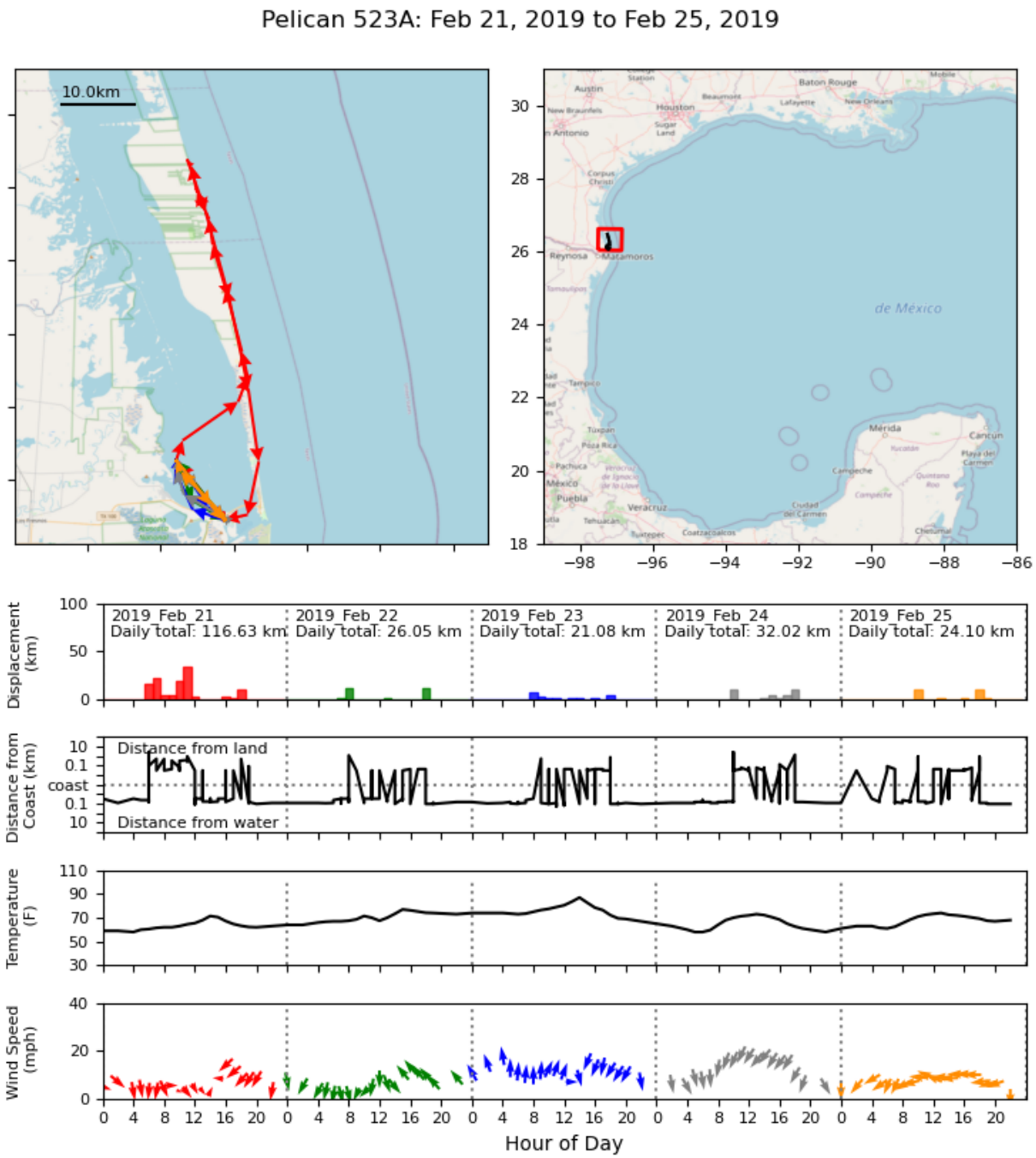

Figure 829 - Maps and graphs showing movements of 523A between 2019-02-21 and 2019-02-24 inclusive.

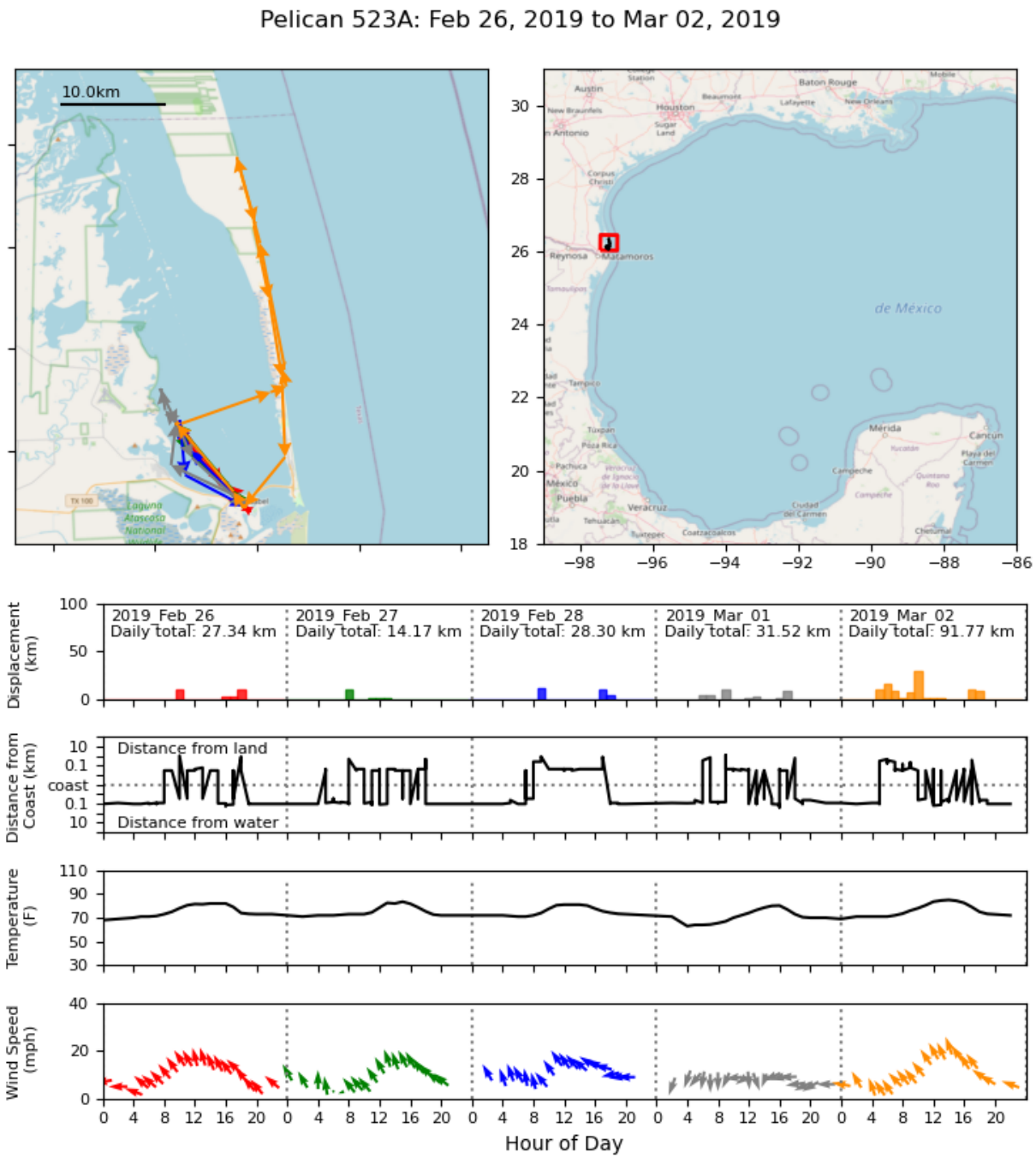

Figure 830 - Maps and graphs showing movements of 523A between 2019-02-26 and 2019-03-01 inclusive.

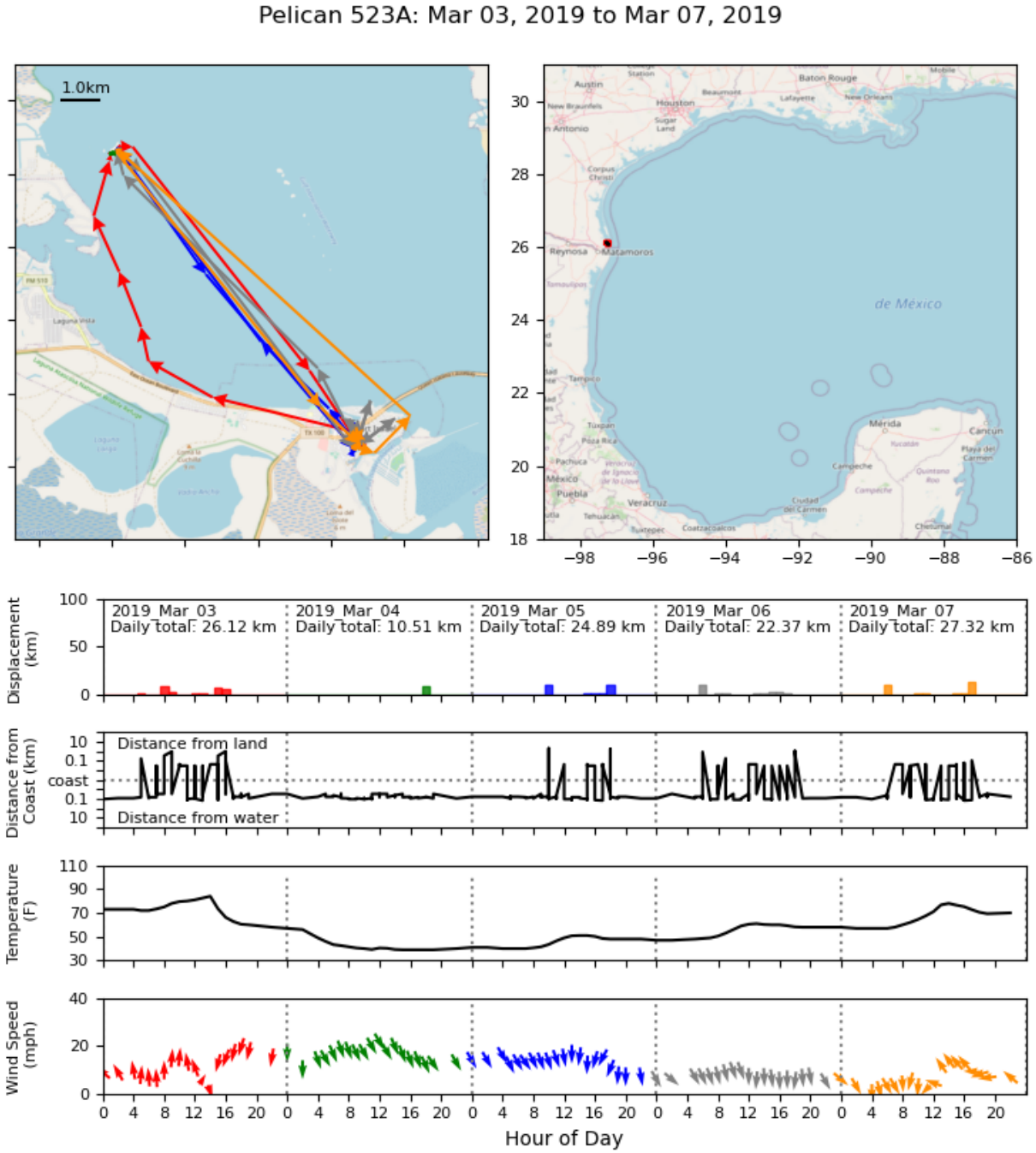

Figure 831 - Maps and graphs showing movements of 523A between 2019-03-03 and 2019-03-06 inclusive.

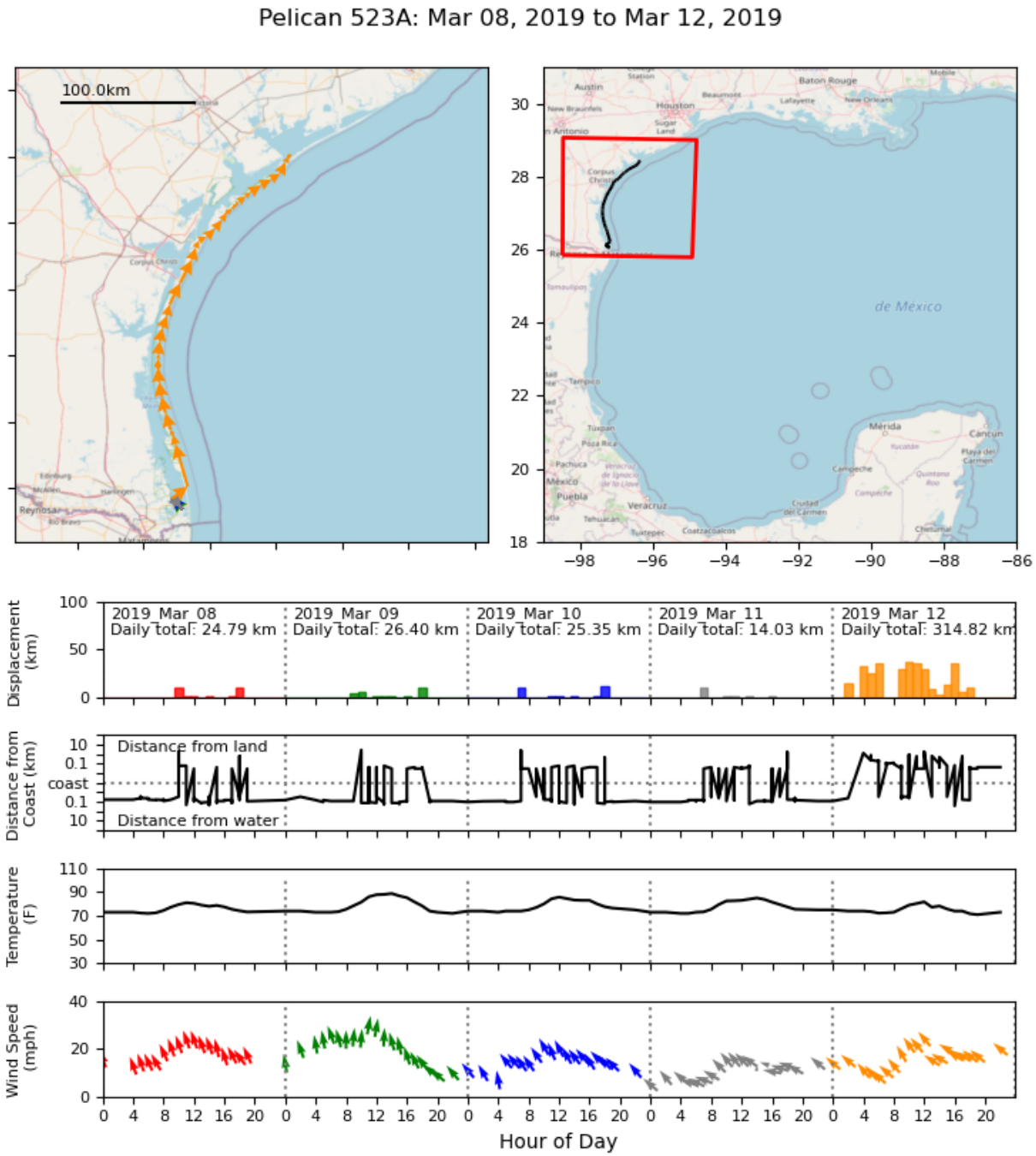

Figure 832 - Maps and graphs showing movements of 523A between 2019-03-08 and 2019-03-11 inclusive.

Pelican 85A3 - Active from November 24, 2018 to December 27, 2018

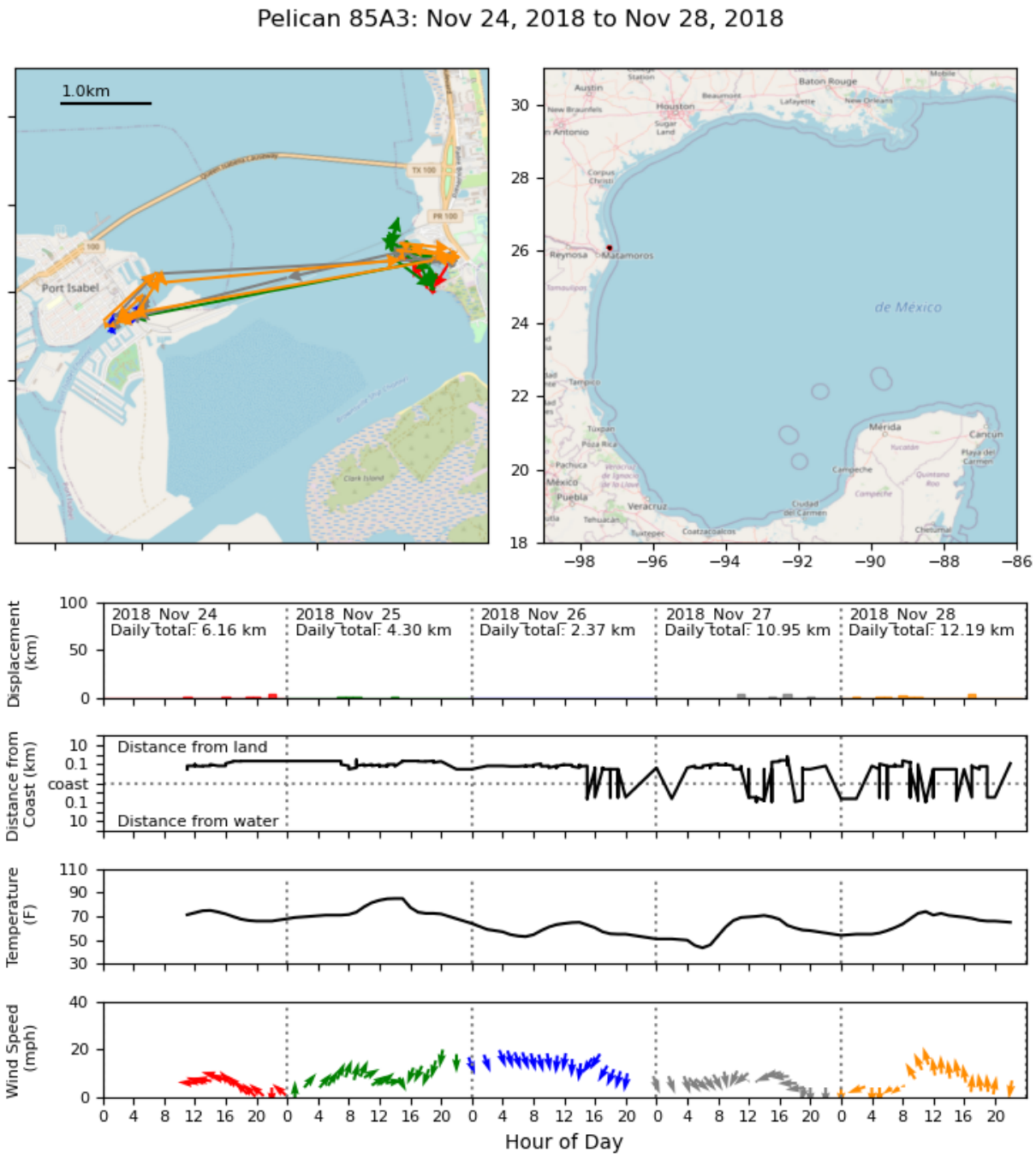

Figure 833 - Maps and graphs showing movements of 85A3 between 2018-11-24 and 2018-11-27 inclusive.

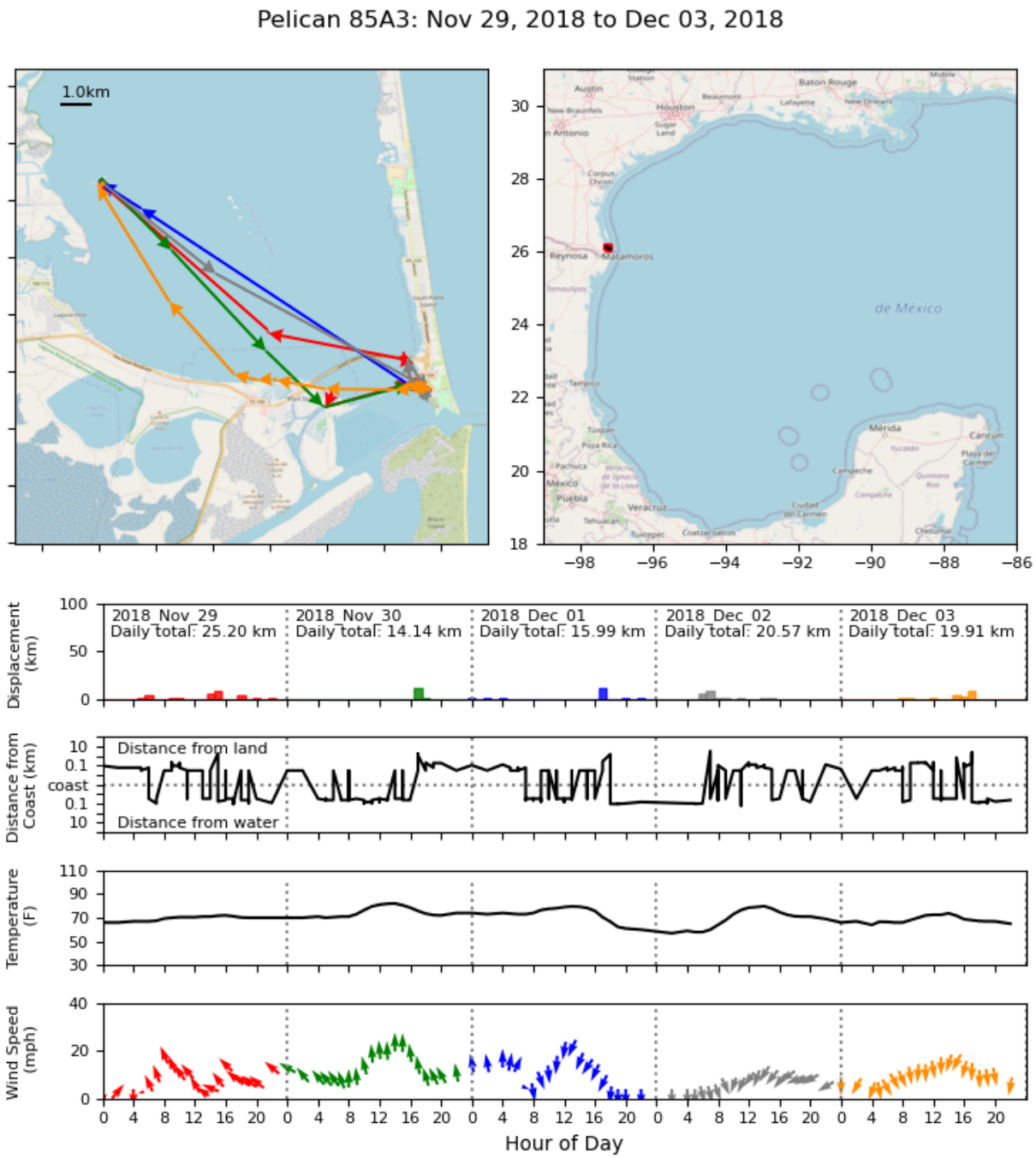

Figure 834 - Maps and graphs showing movements of 85A3 between 2018-11-29 and 2018-12-02 inclusive.

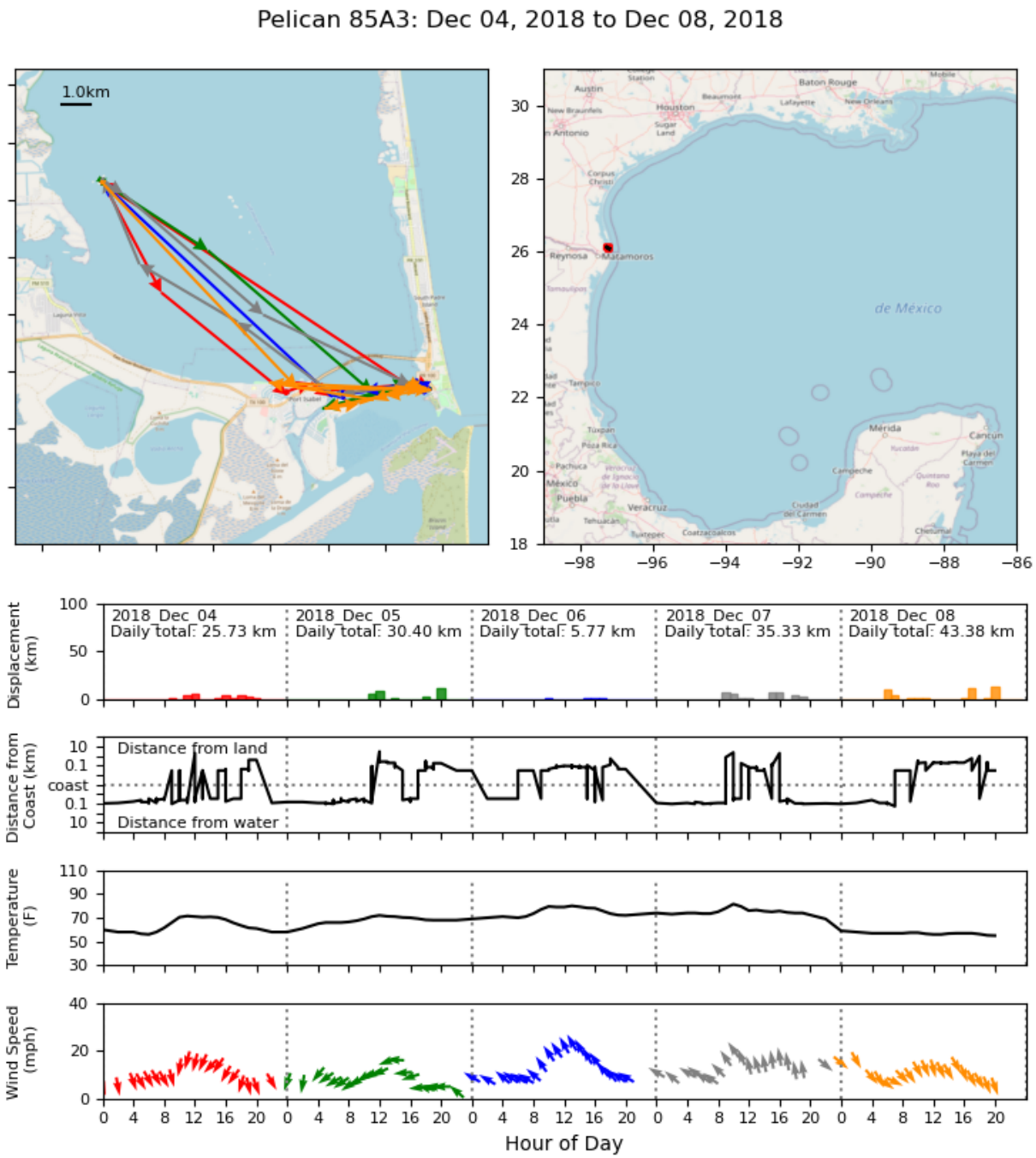

Figure 835 - Maps and graphs showing movements of 85A3 between 2018-12-04 and 2018-12-07 inclusive.

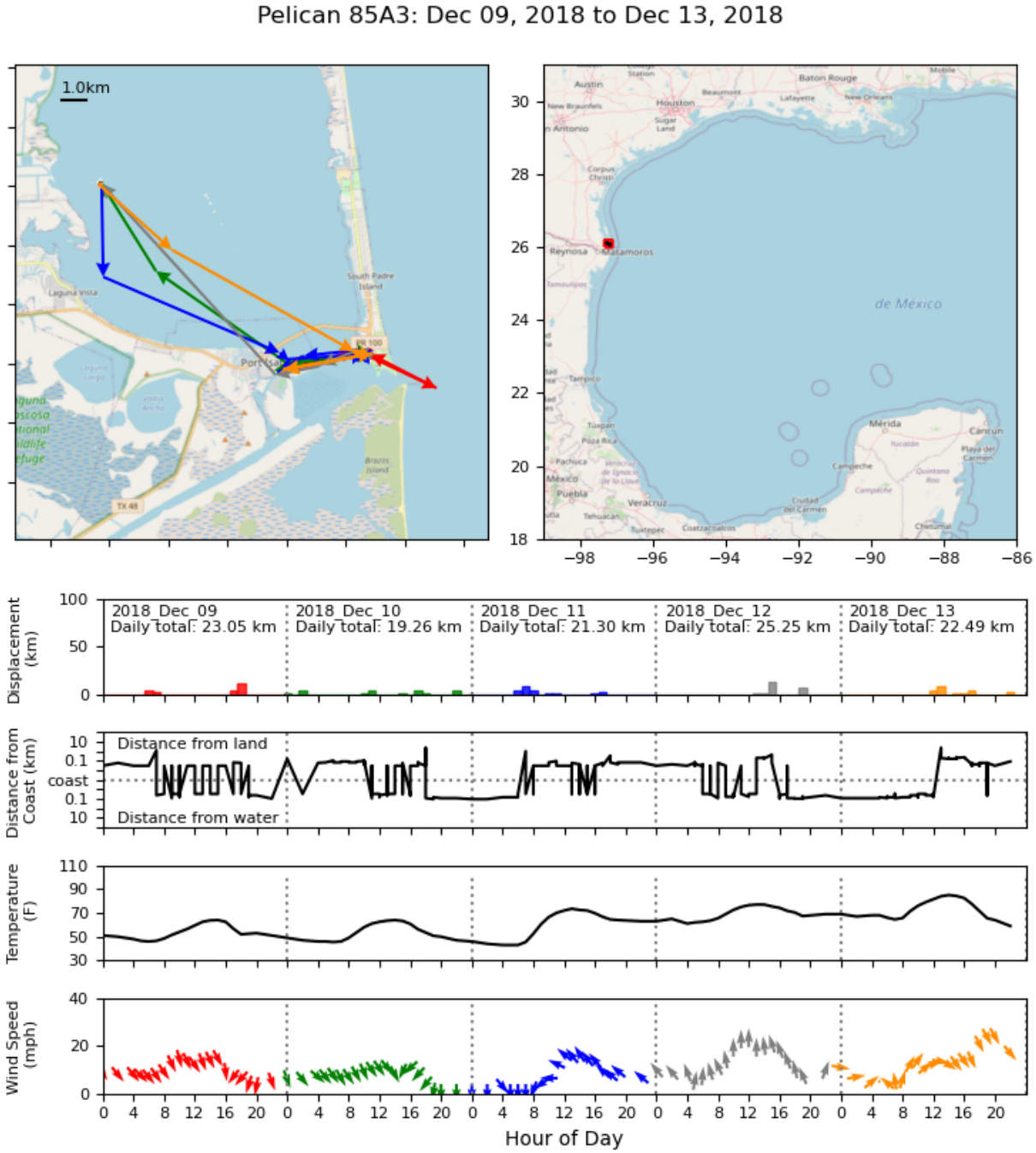

Figure 836 - Maps and graphs showing movements of 85A3 between 2018-12-09 and 2018-12-12 inclusive.

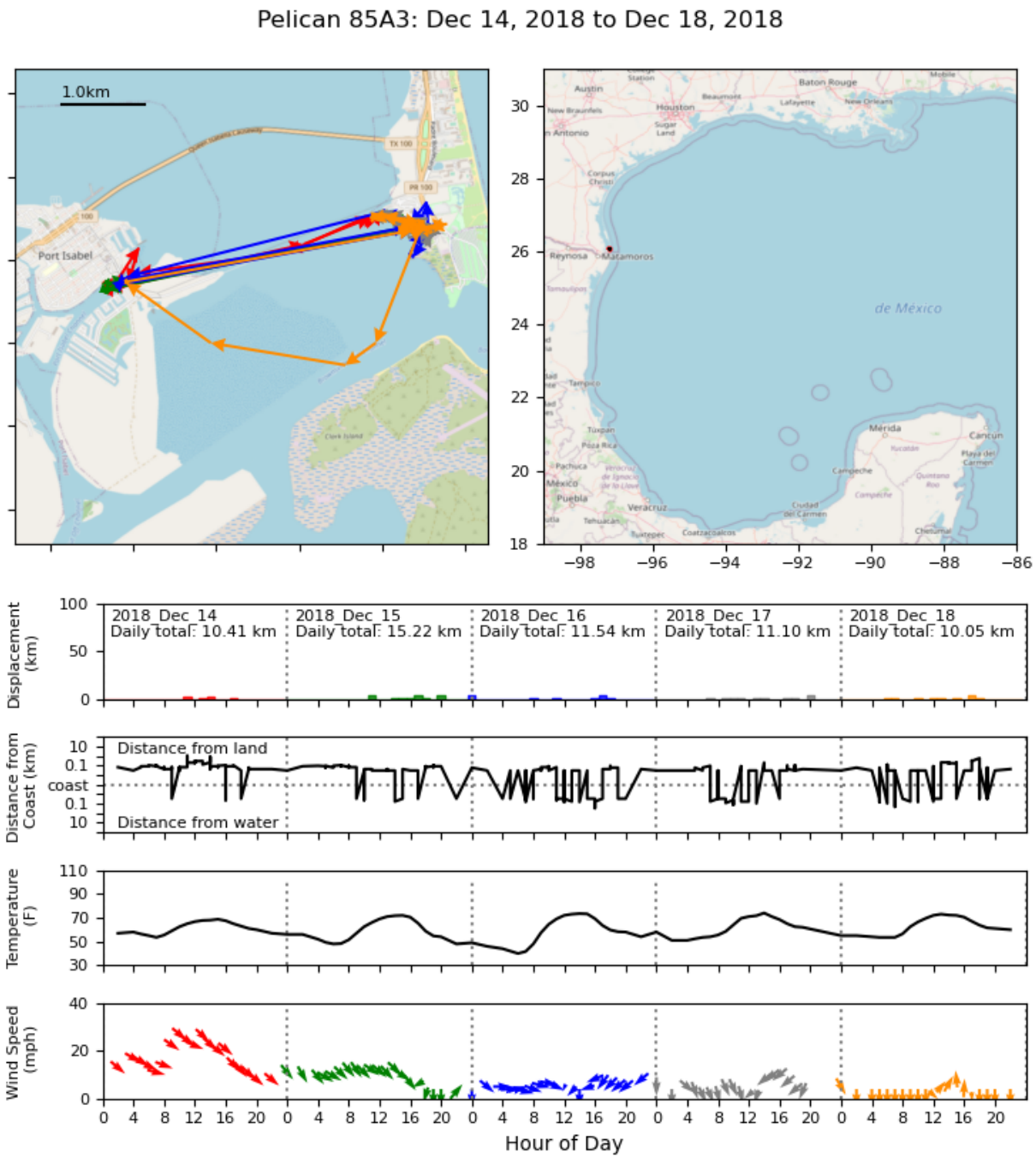

Figure 837 - Maps and graphs showing movements of 85A3 between 2018-12-14 and 2018-12-17 inclusive.

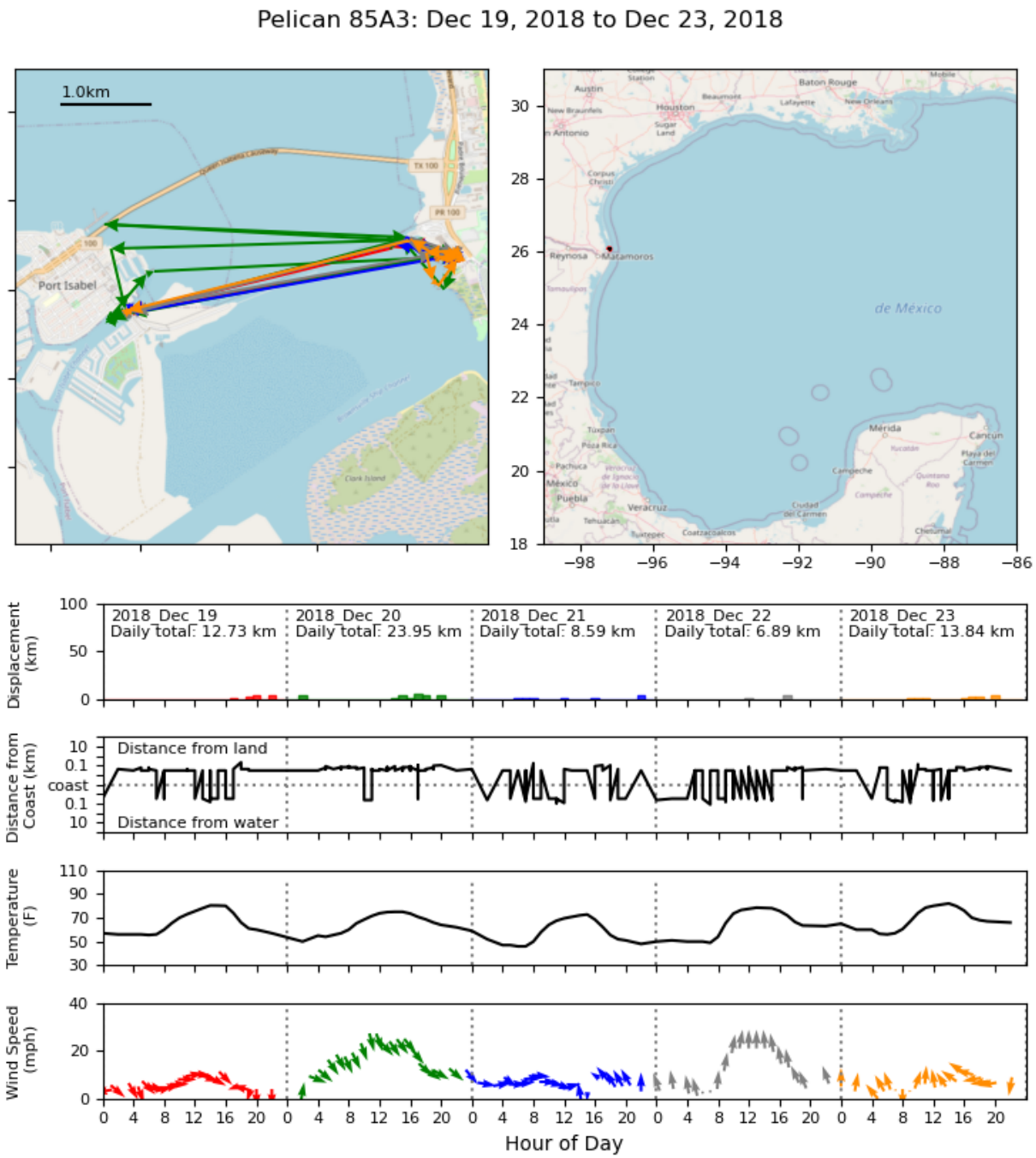

Figure 838 - Maps and graphs showing movements of 85A3 between 2018-12-19 and 2018-12-22 inclusive.

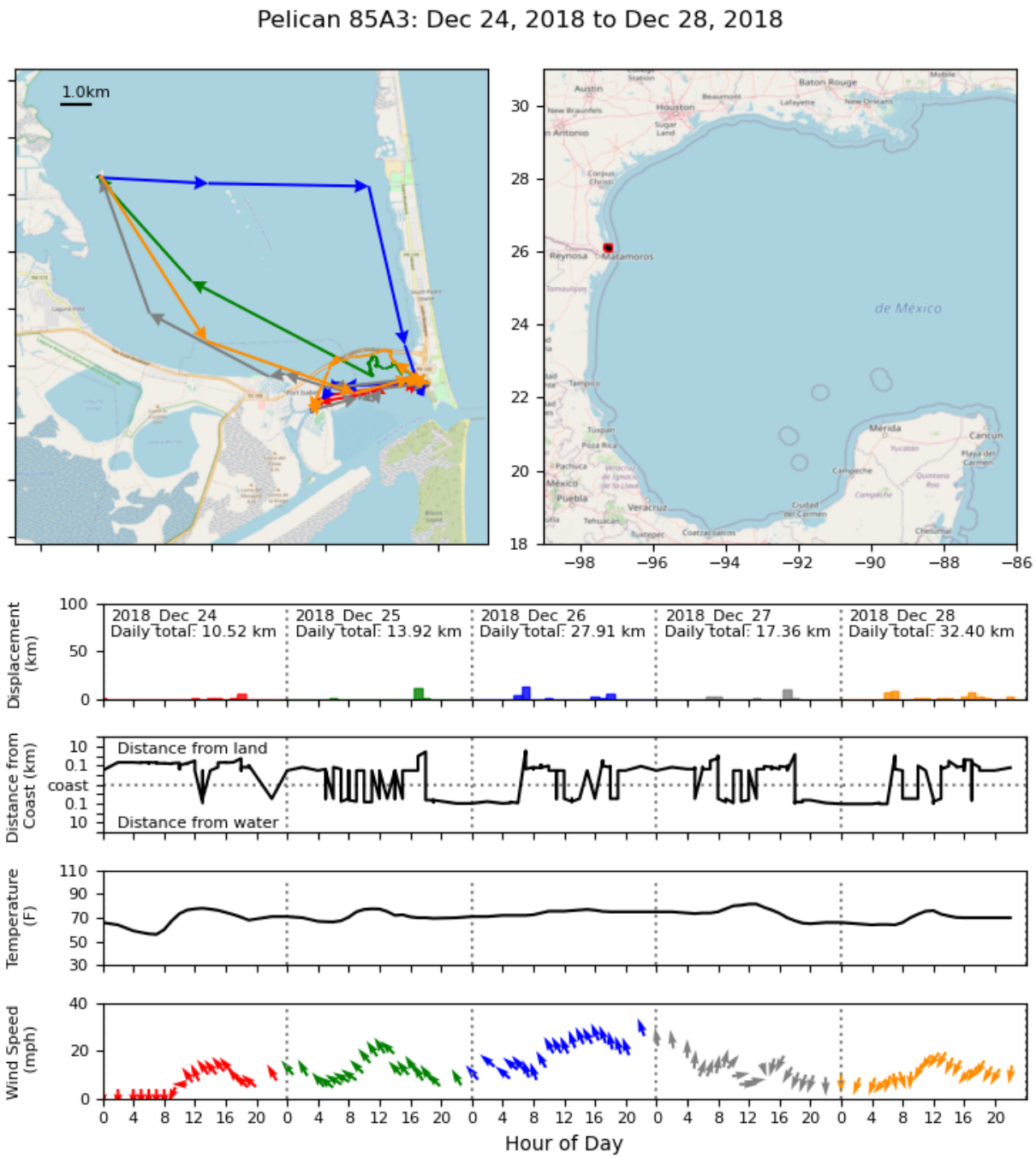

Figure 839 - Maps and graphs showing movements of 85A3 between 2018-12-24 and 2018-12-27 inclusive.

Pelican B6A3 - Active from November 25, 2018 to January 17, 2019

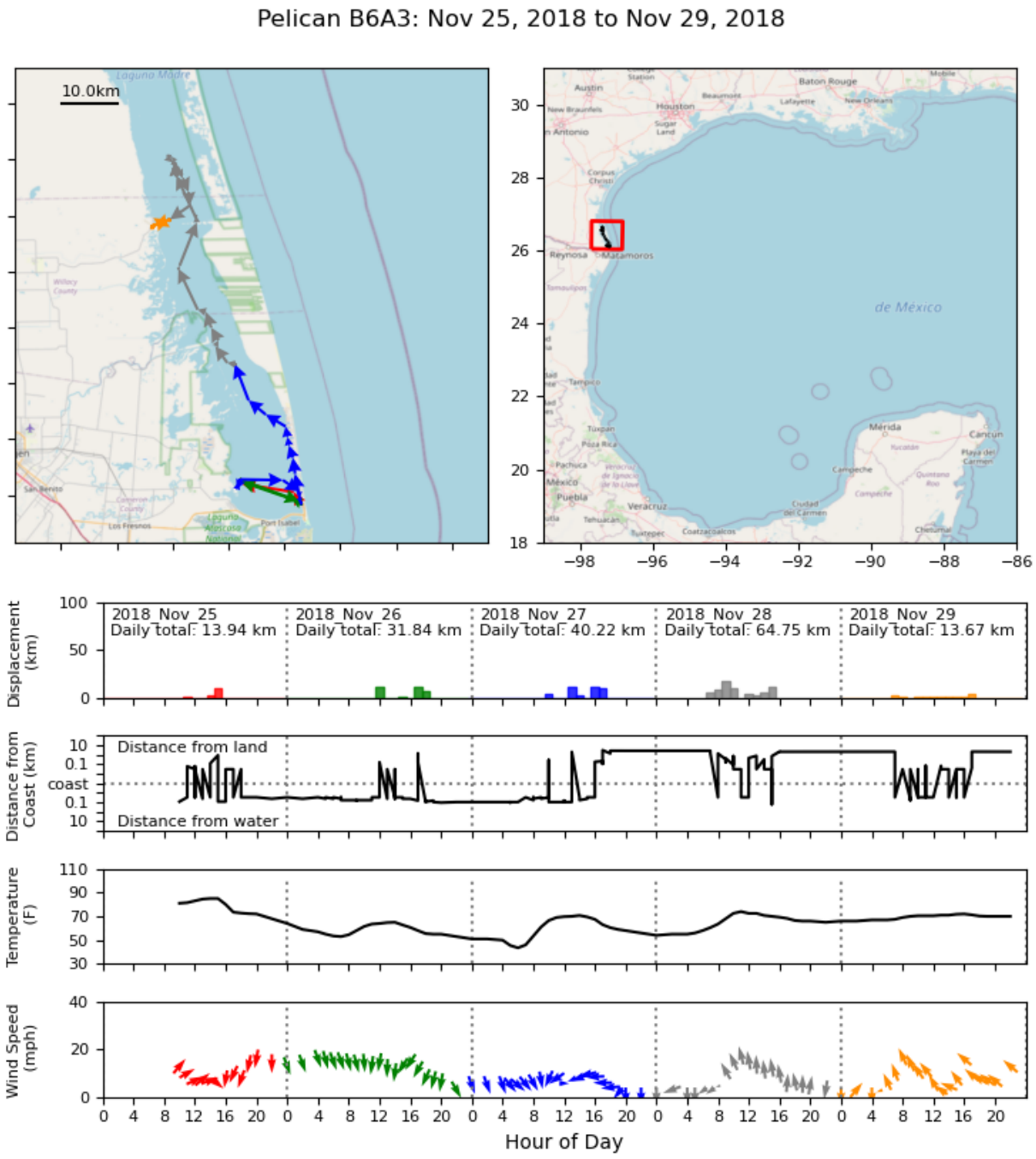

Figure 840 - Maps and graphs showing movements of B6A3 between 2018-11-25 and 2018-11-28 inclusive.

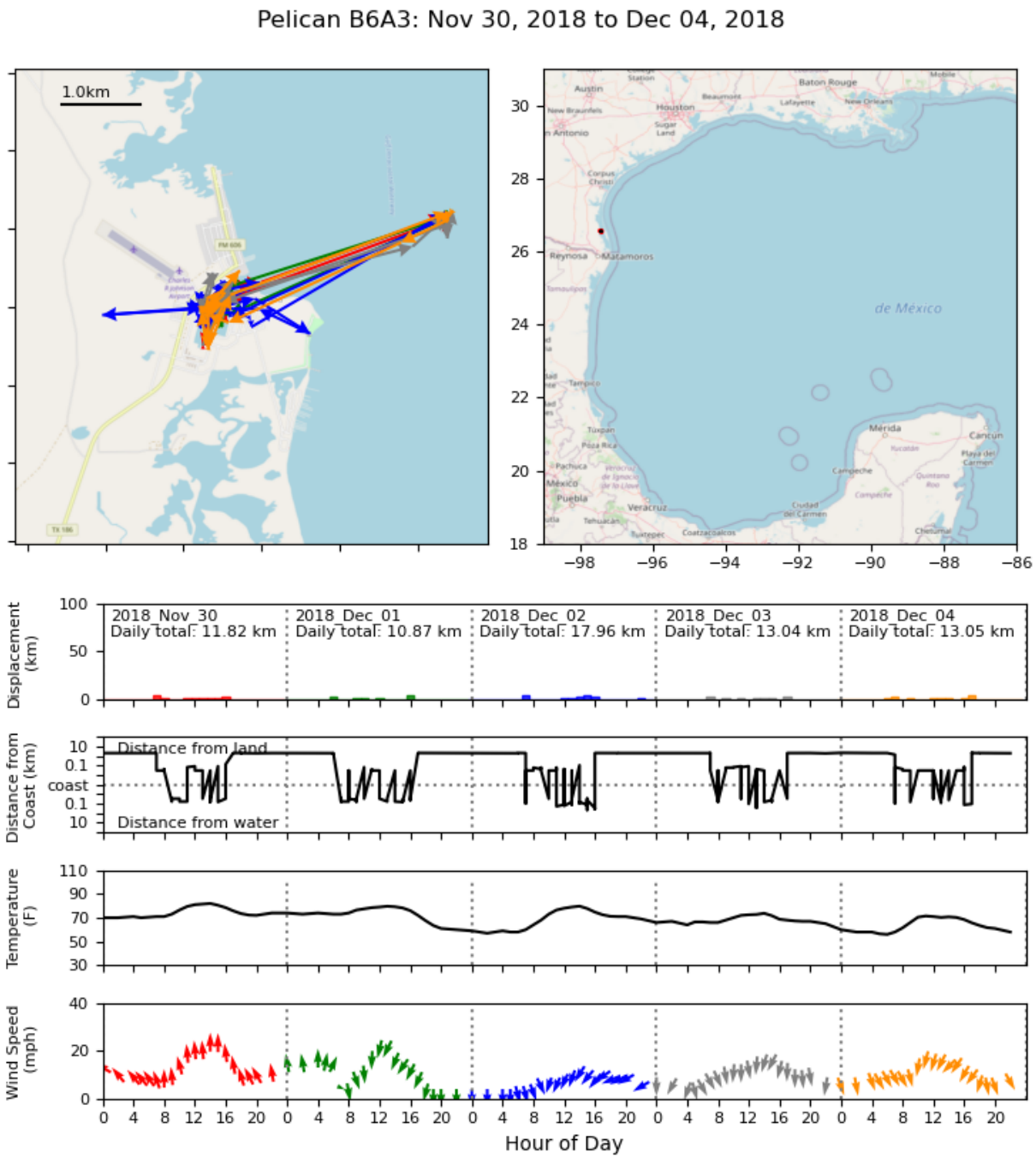

Figure 841 - Maps and graphs showing movements of B6A3 between 2018-11-30 and 2018-12-03 inclusive.

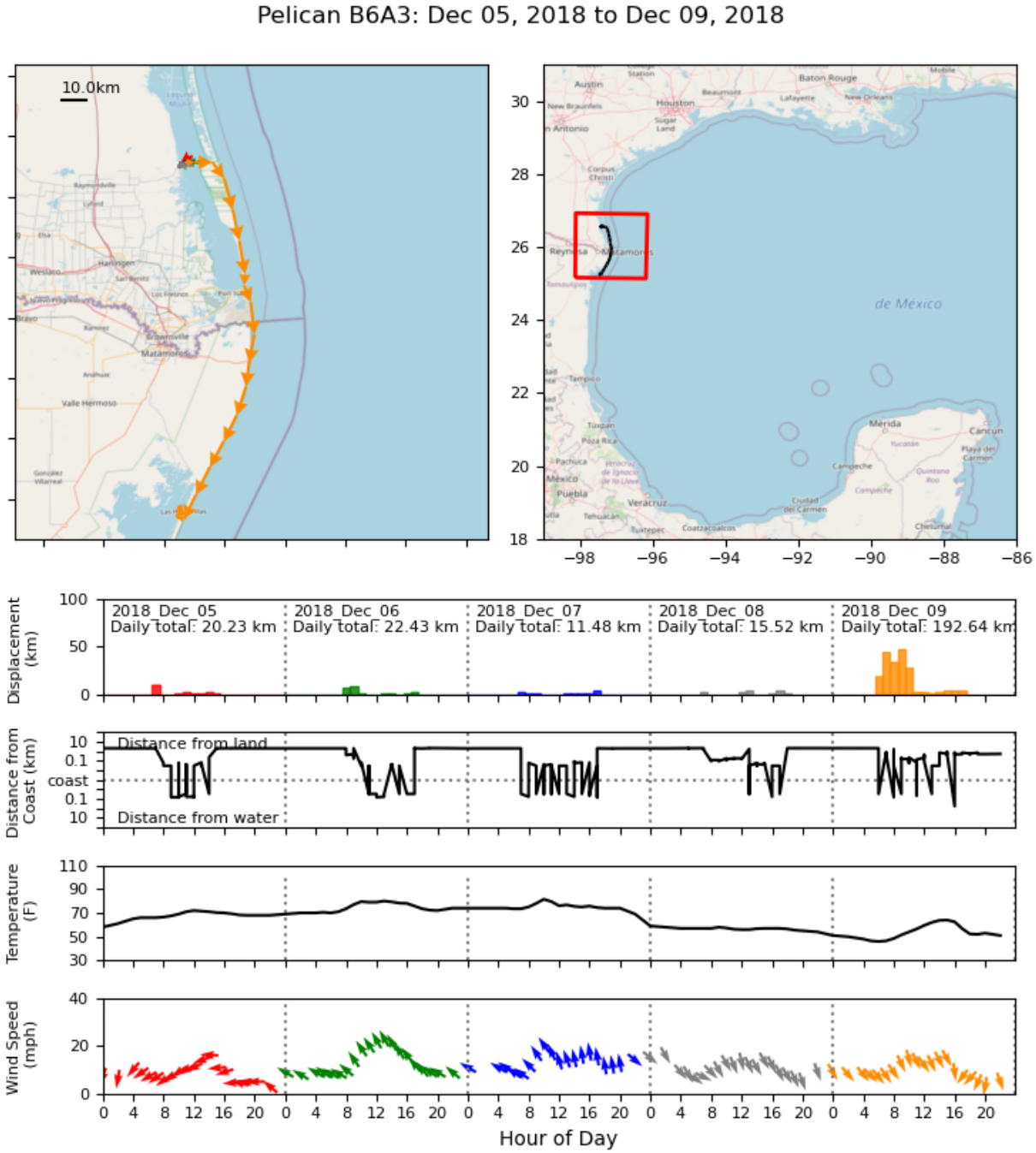

Figure 842 - Maps and graphs showing movements of B6A3 between 2018-12-05 and 2018-12-08 inclusive.

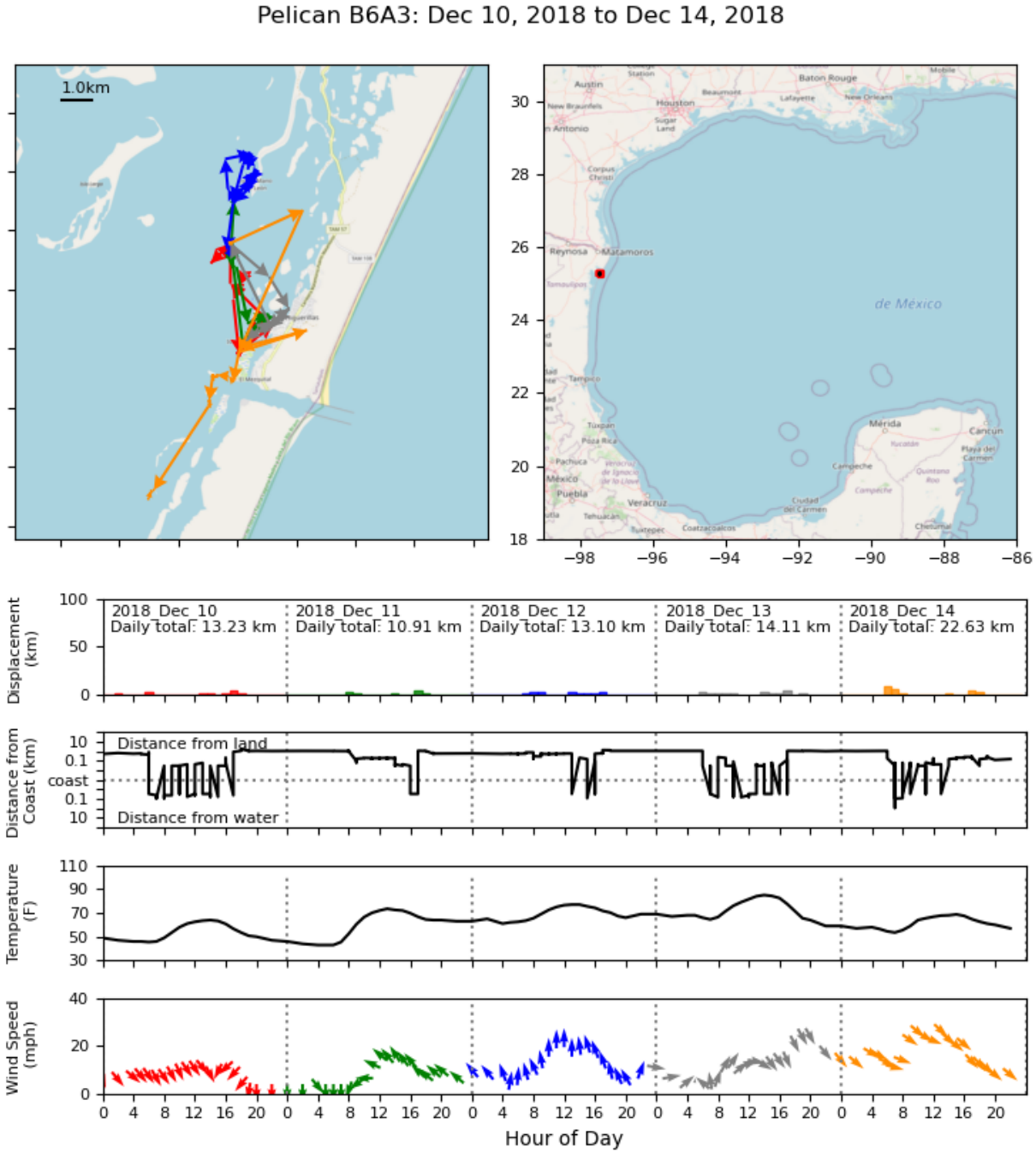

Figure 843 - Maps and graphs showing movements of B6A3 between 2018-12-10 and 2018-12-13 inclusive.

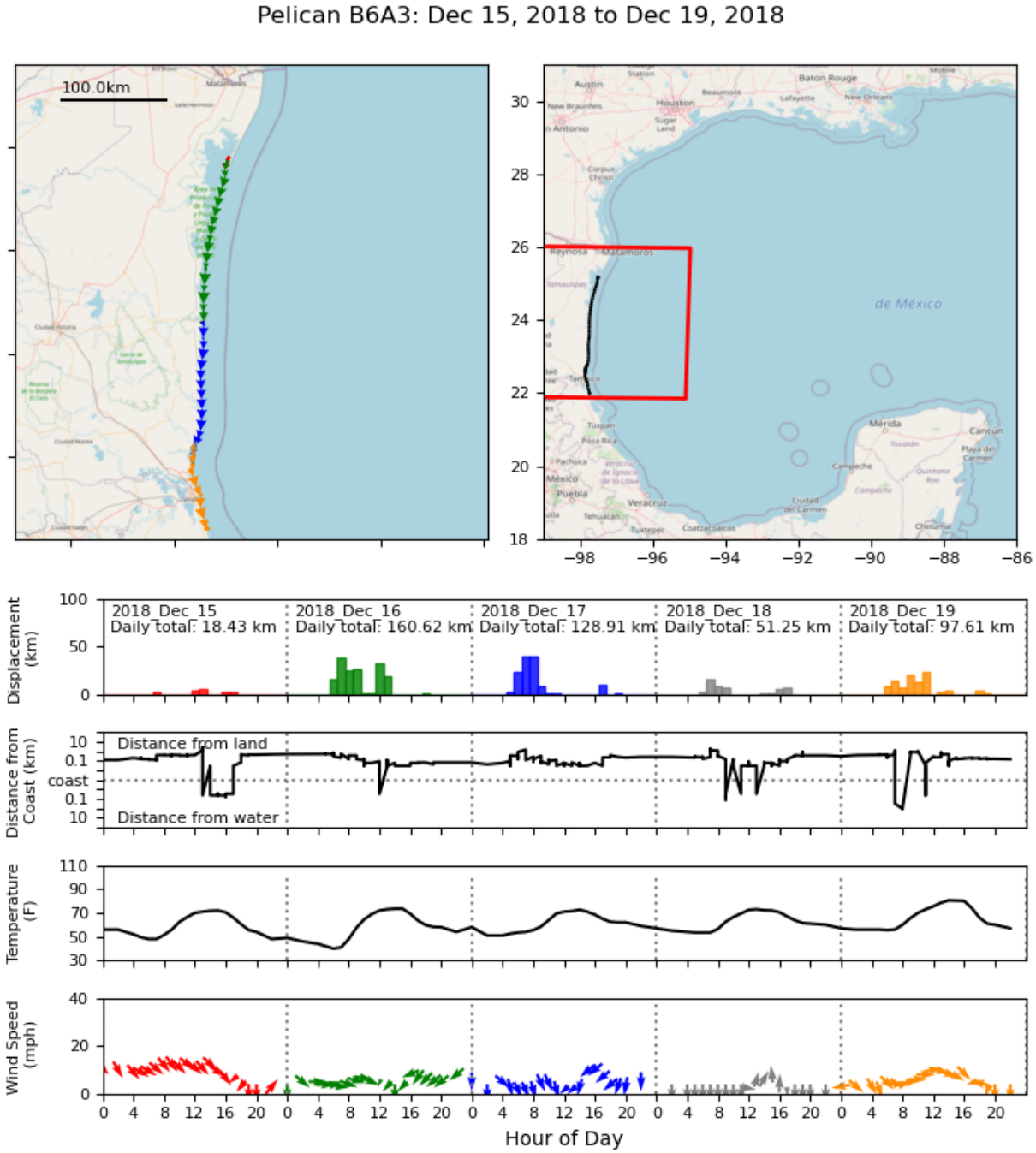

Figure 844 - Maps and graphs showing movements of B6A3 between 2018-12-15 and 2018-12-18 inclusive.

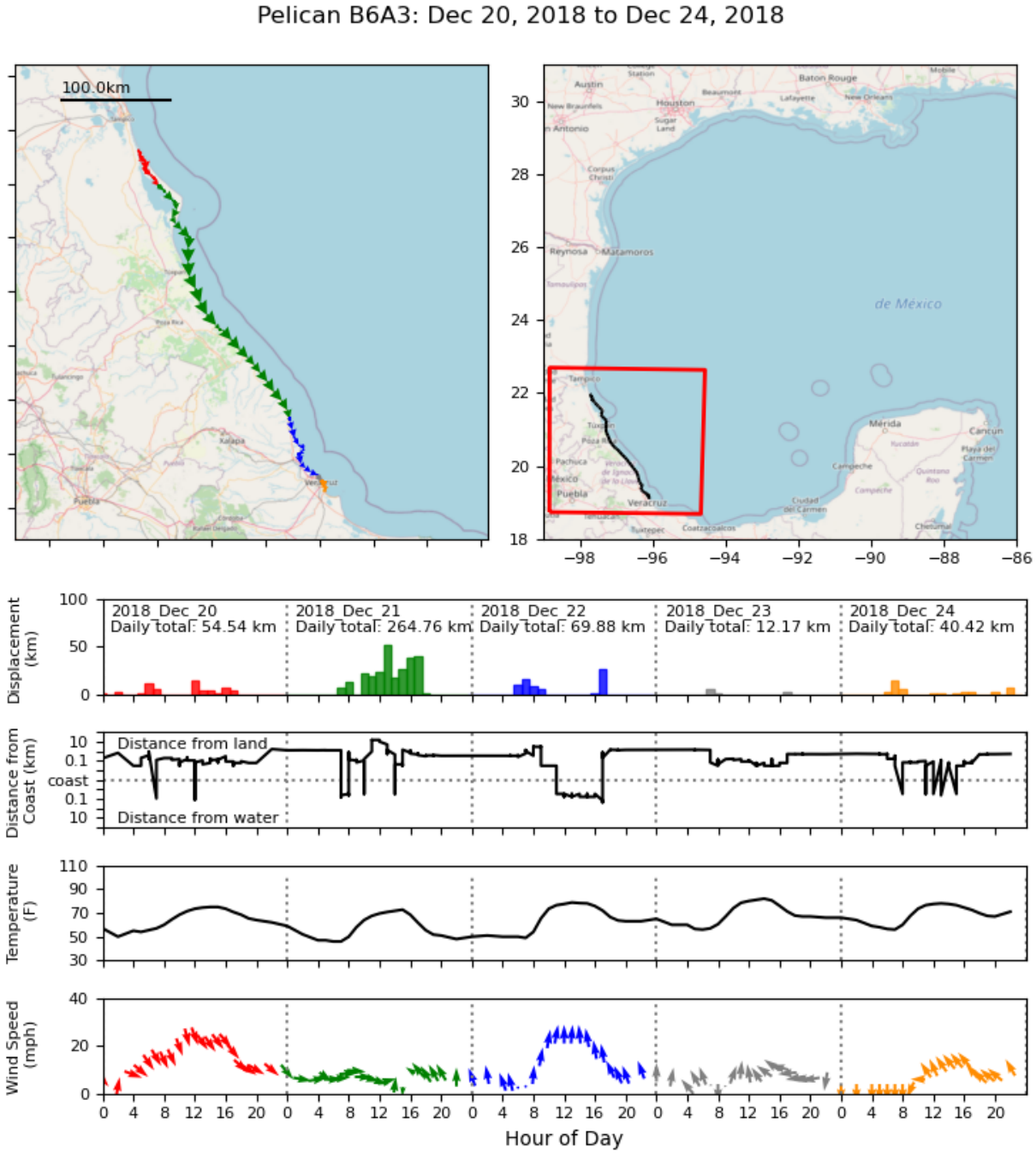

Figure 845 - Maps and graphs showing movements of B6A3 between 2018-12-20 and 2018-12-23 inclusive.

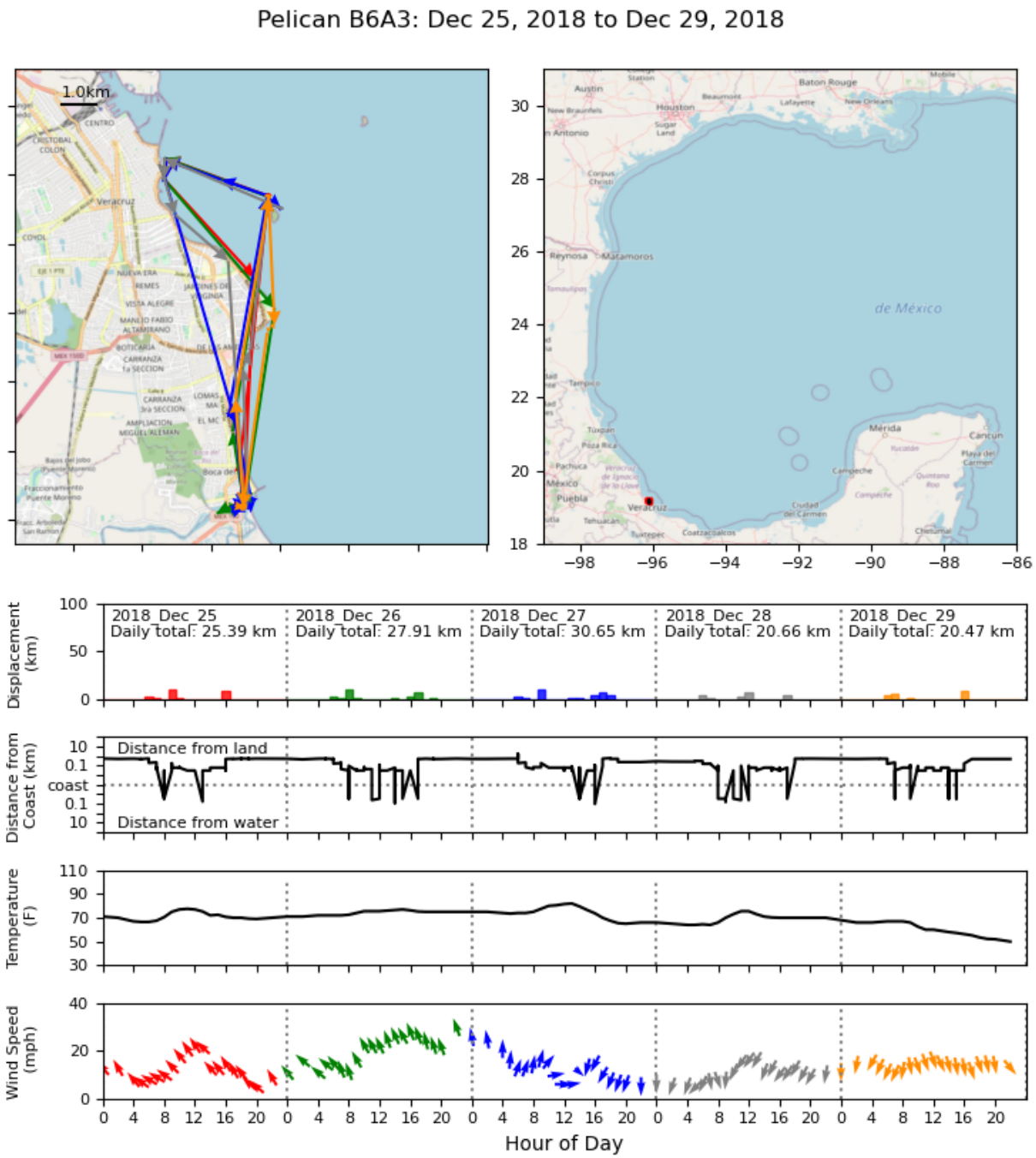

Figure 846 - Maps and graphs showing movements of B6A3 between 2018-12-25 and 2018-12-28 inclusive.

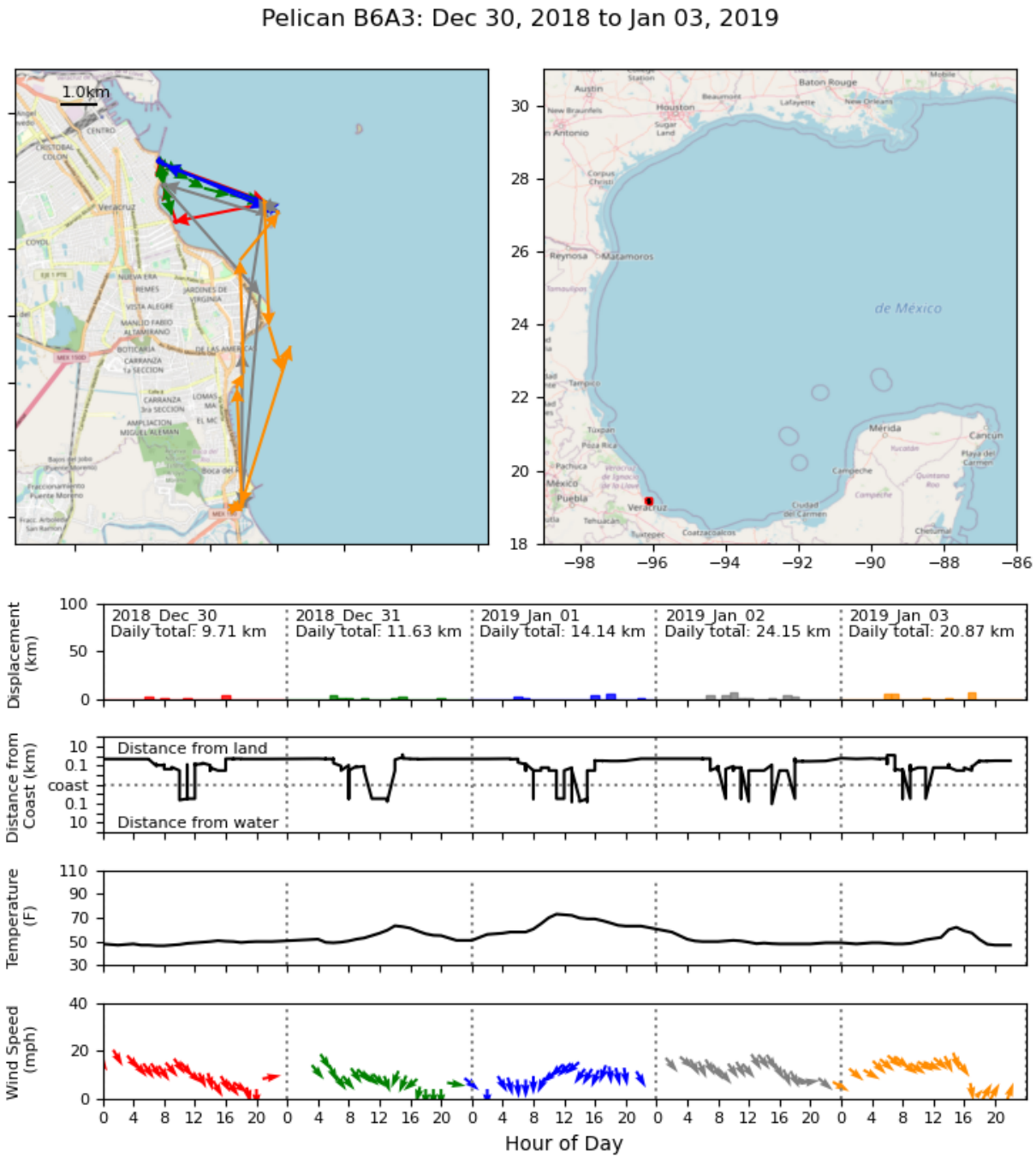

Figure 847 - Maps and graphs showing movements of B6A3 between 2018-12-30 and 2019-01-02 inclusive.

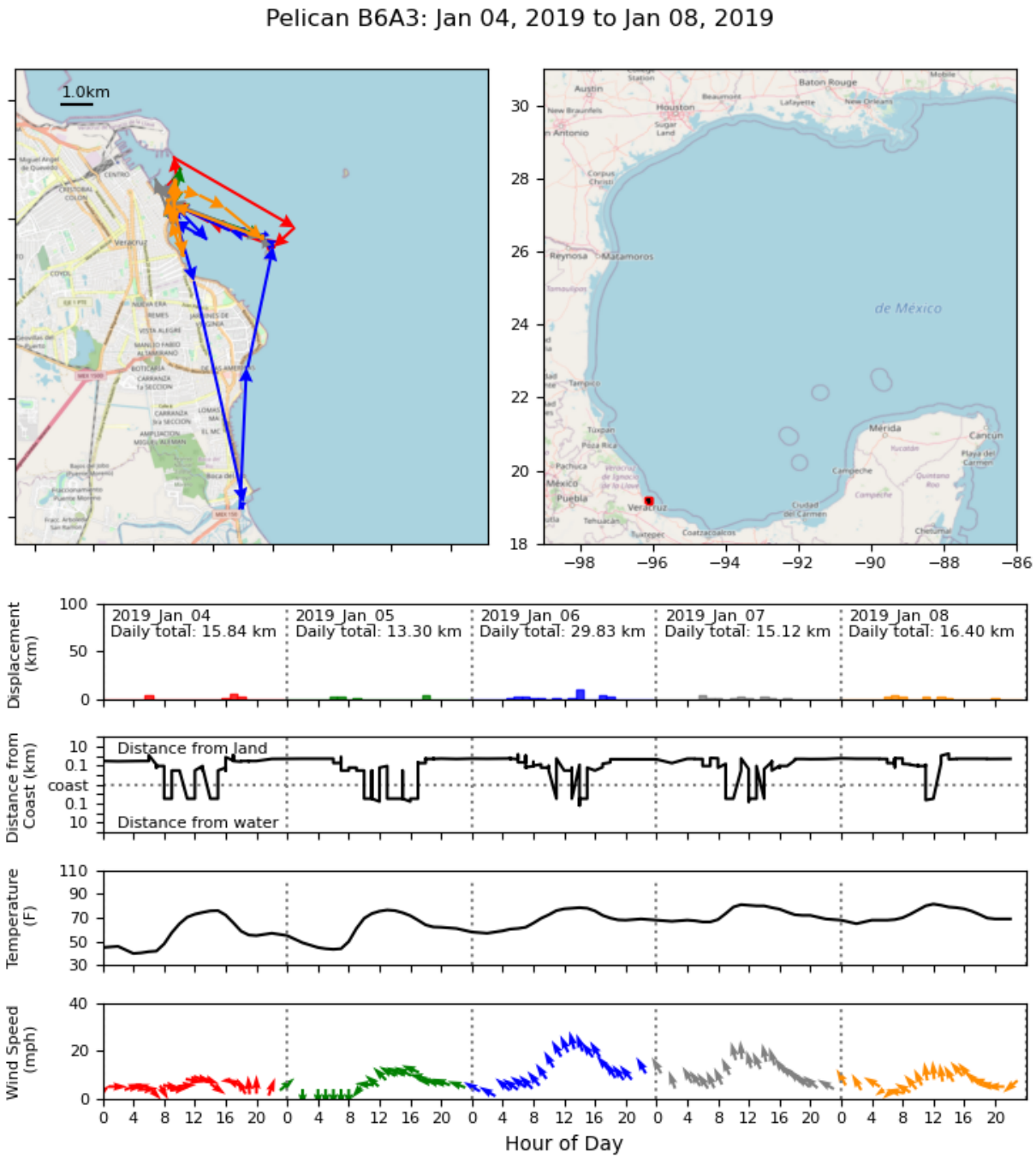

Figure 848 - Maps and graphs showing movements of B6A3 between 2019-01-04 and 2019-01-07 inclusive.

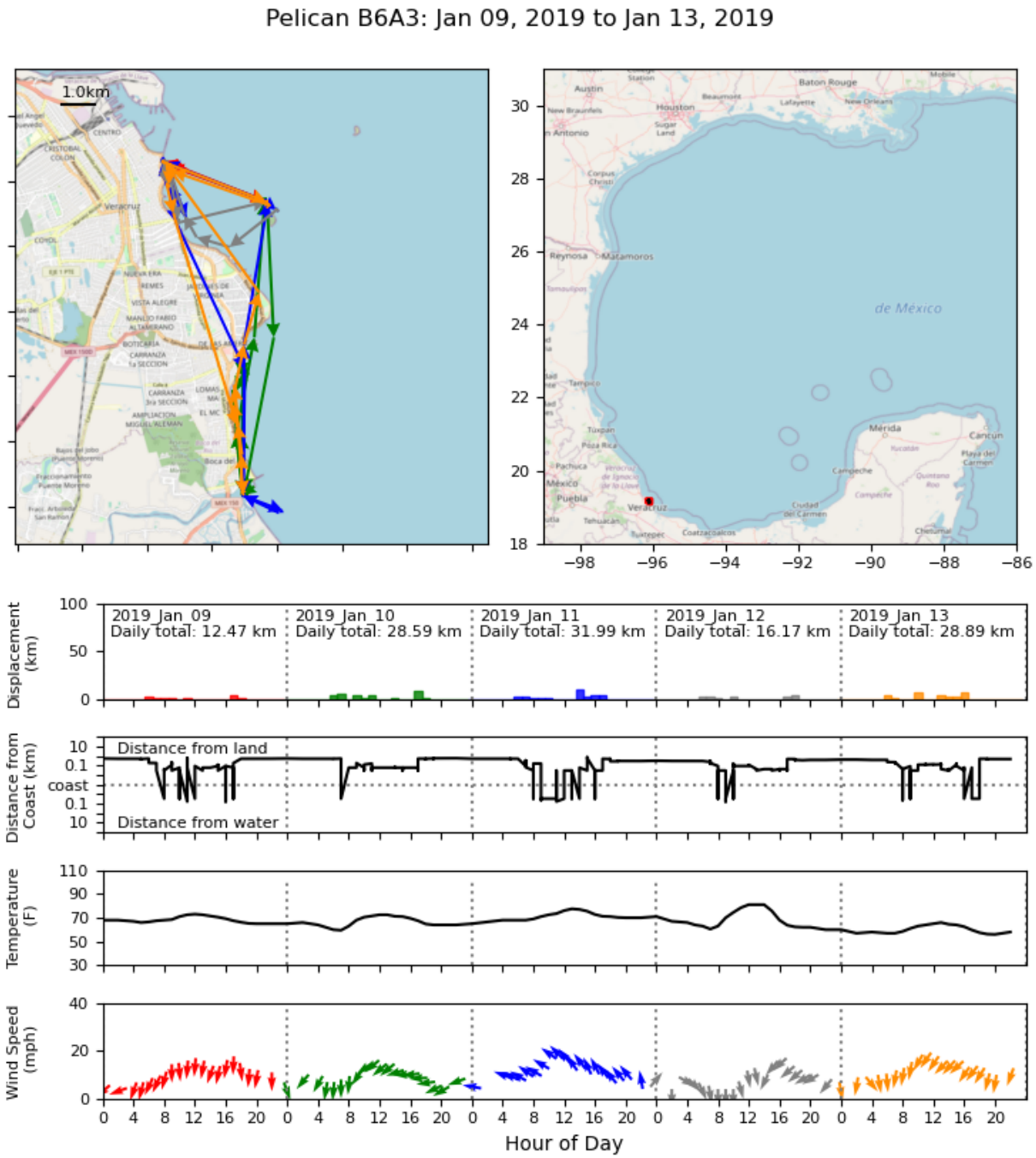

Figure 849 - Maps and graphs showing movements of B6A3 between 2019-01-09 and 2019-01-12 inclusive.

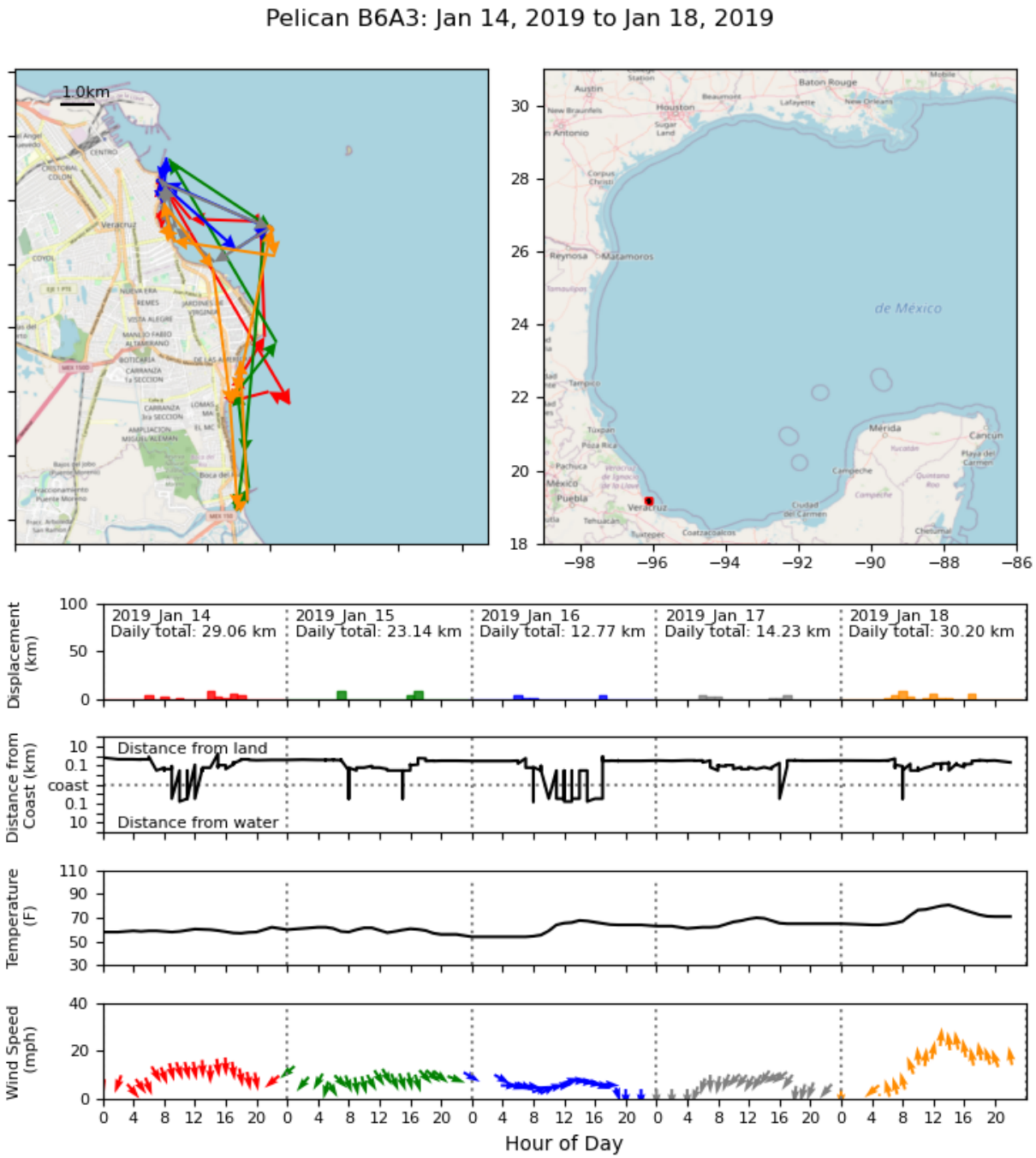

Figure 850 - Maps and graphs showing movements of B6A3 between 2019-01-14 and 2019-01-17 inclusive.

Pelican 963A - Active from November 30, 2018 to December 08, 2018

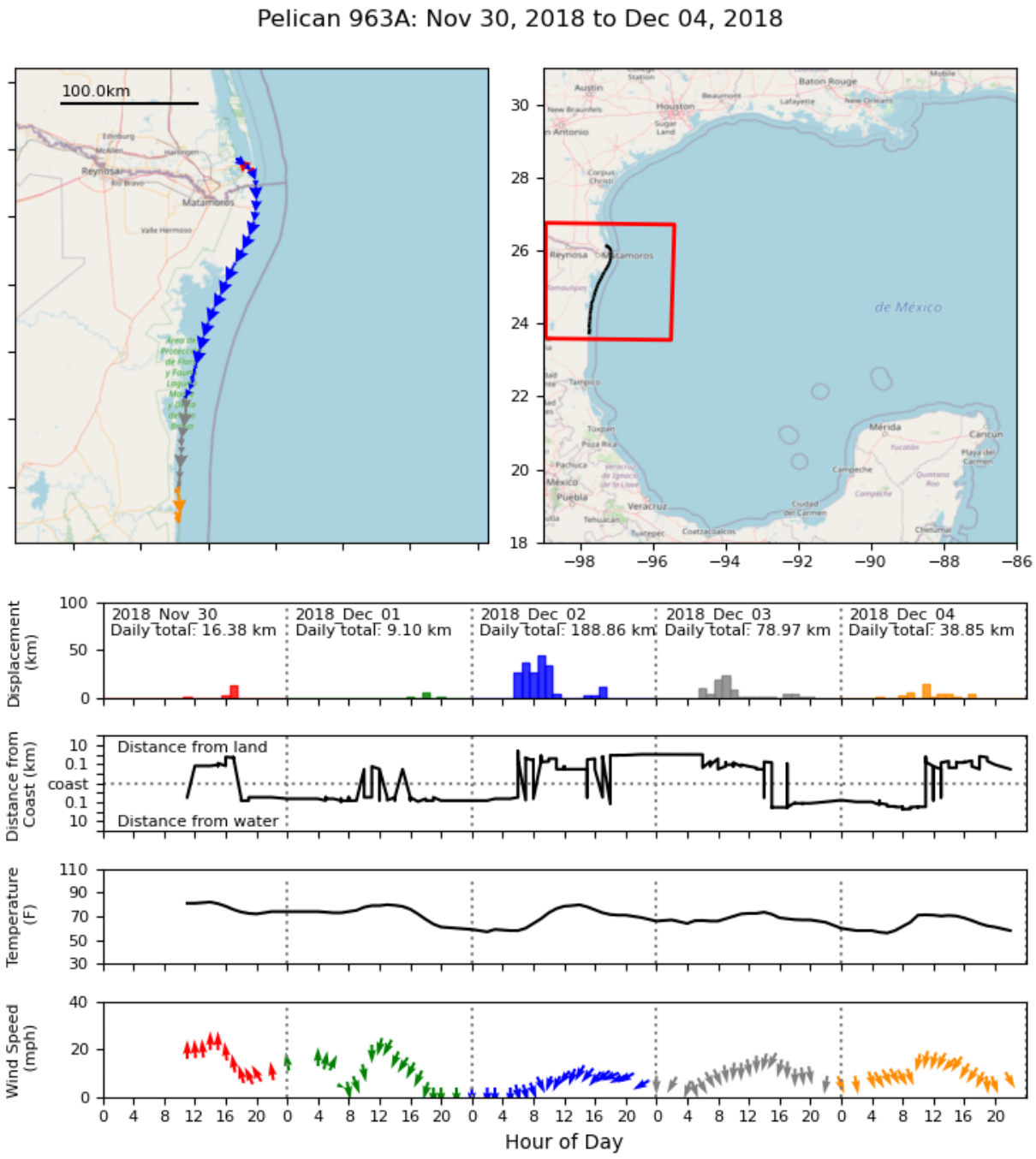

Figure 851 - Maps and graphs showing movements of 963A between 2018-11-30 and 2018-12-03 inclusive.

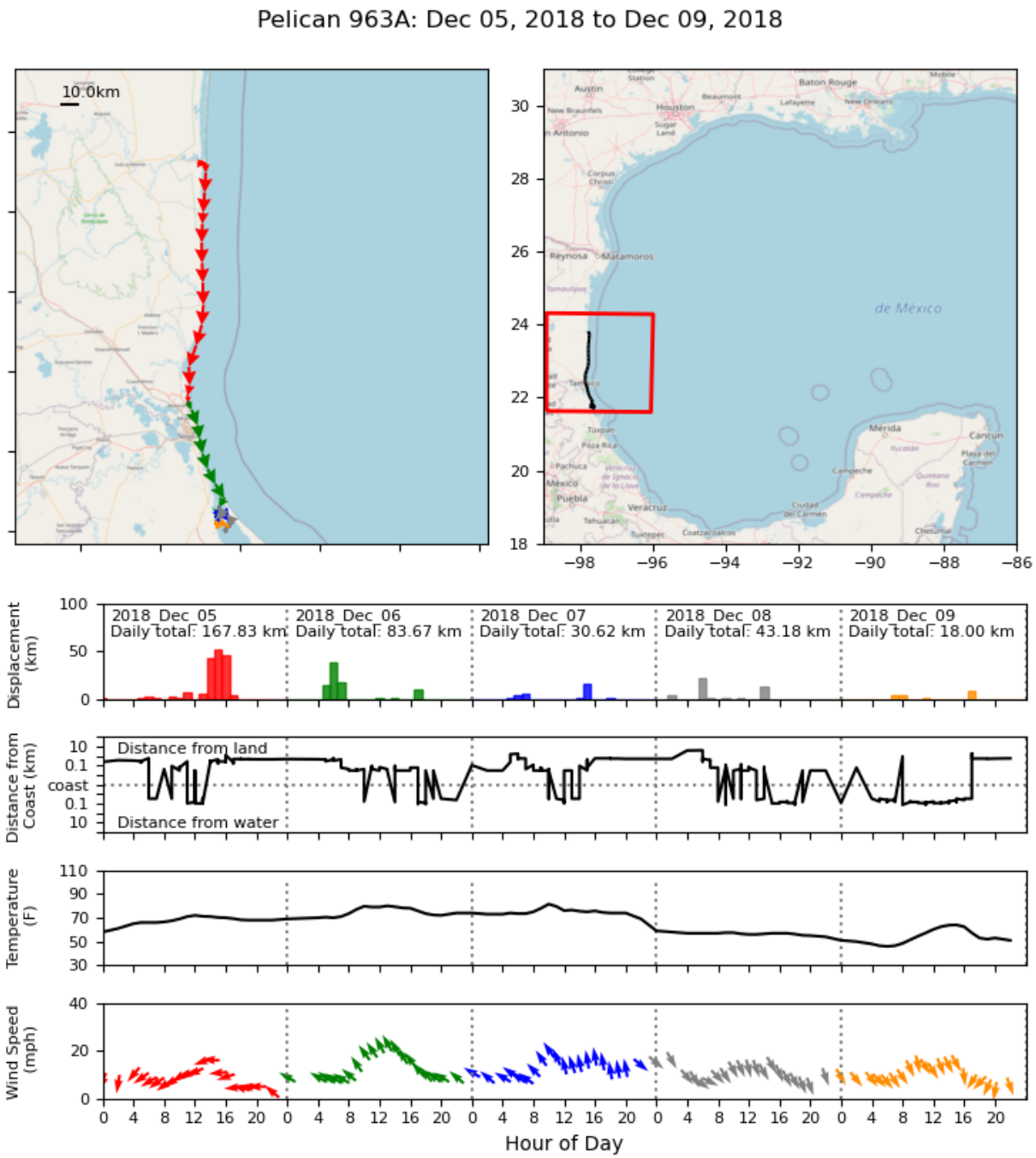

Figure 852 - Maps and graphs showing movements of 963A between 2018-12-05 and 2018-12-08 inclusive.

Pelican 443A - Active from November 30, 2018 to December 03, 2018

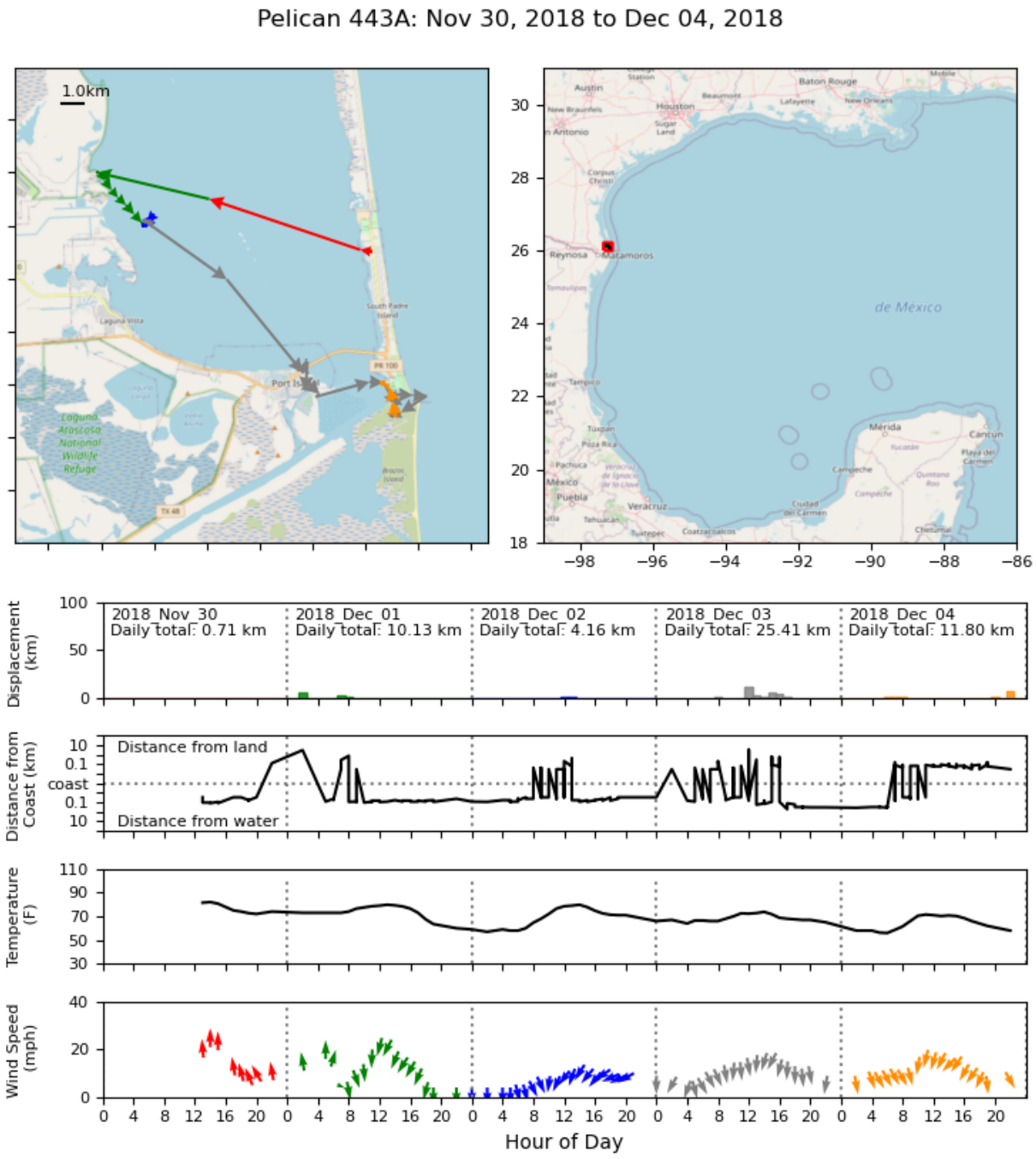

Figure 853 - Maps and graphs showing movements of 443A between 2018-11-30 and 2018-12-03 inclusive.

Pelican 3939 - Active from December 05, 2018 to December 08, 2018

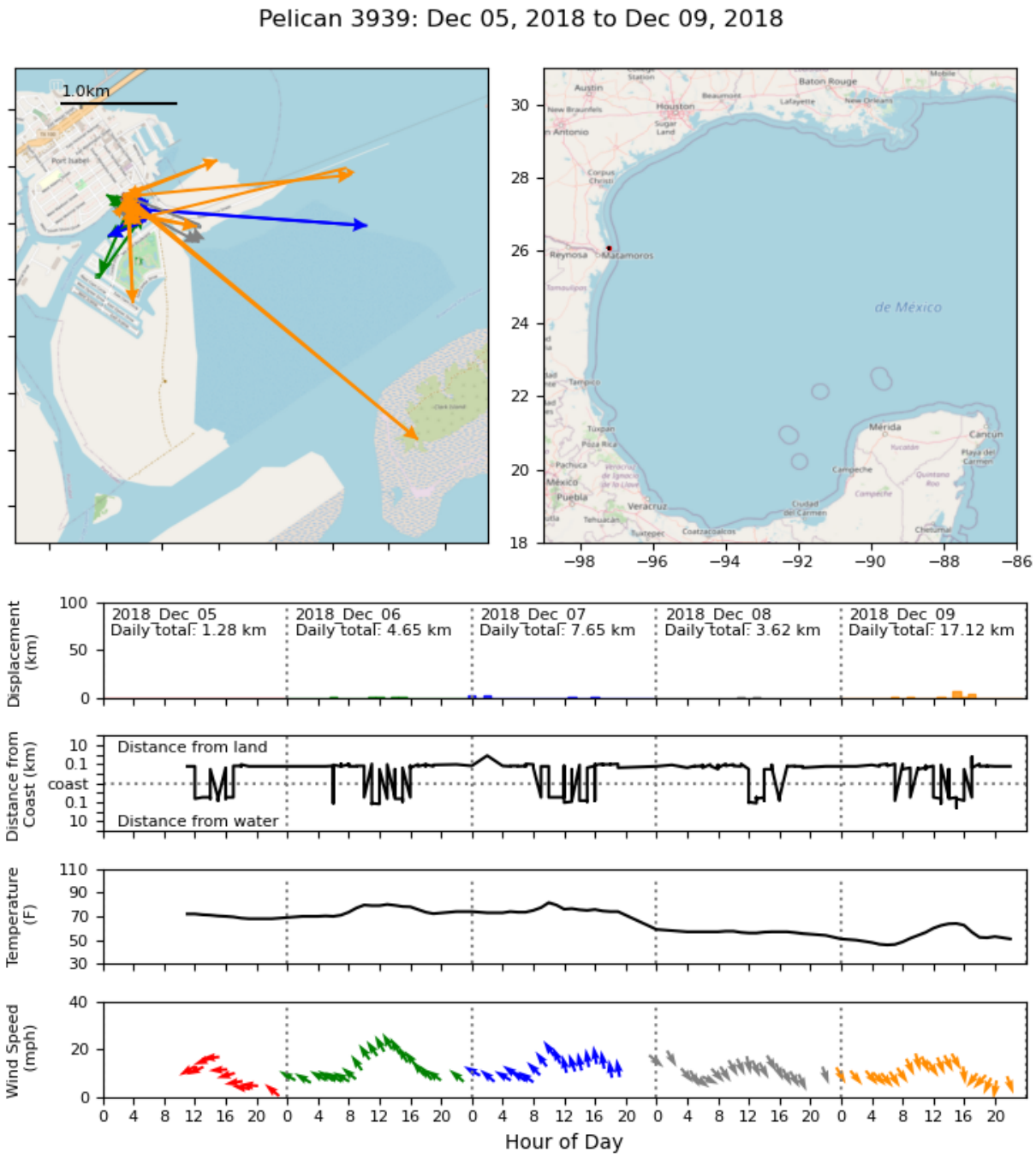

Figure 854 - Maps and graphs showing movements of 3939 between 2018-12-05 and 2018-12-08 inclusive.

Pelican 383A - Active from December 06, 2018 to January 28, 2019

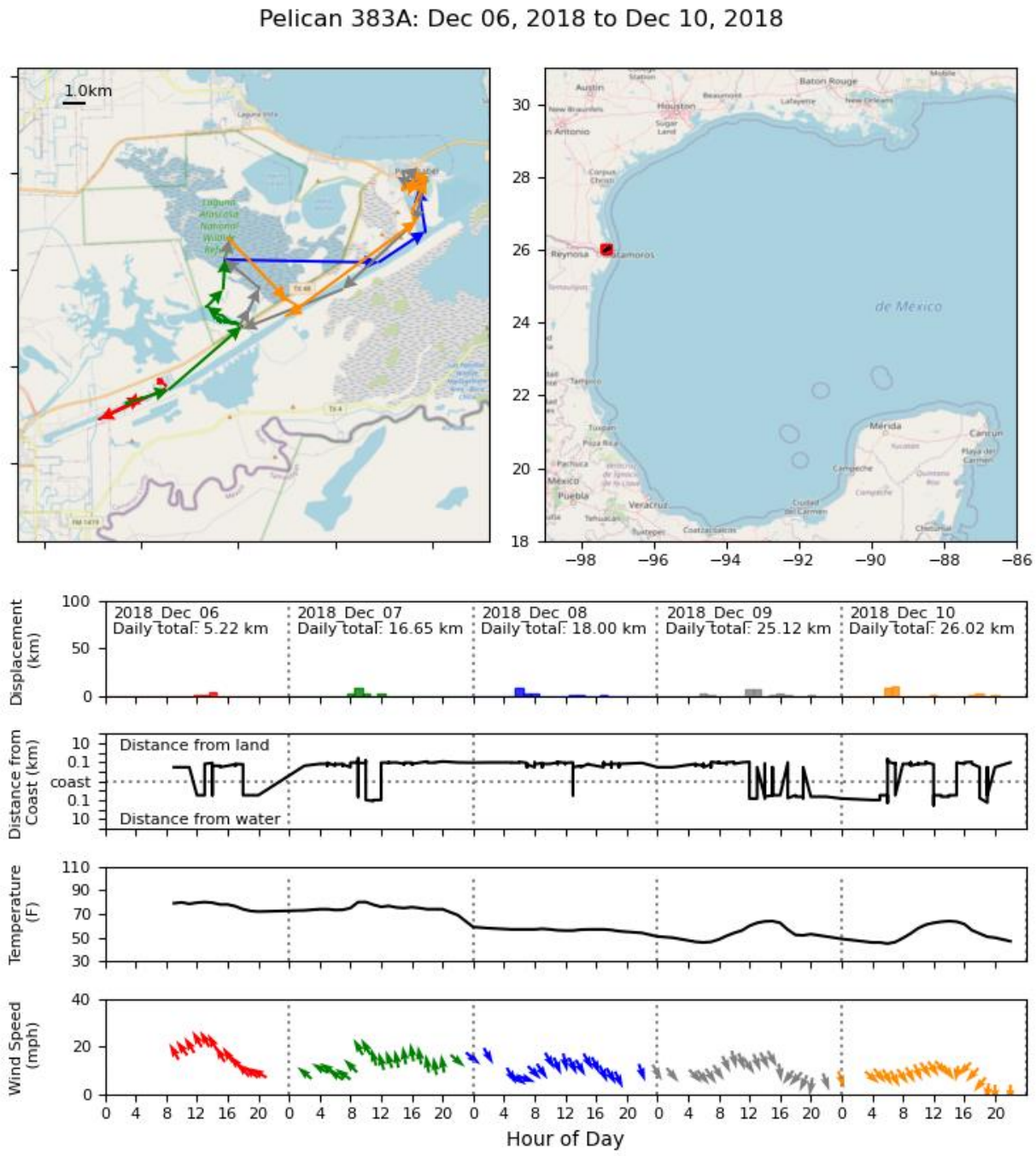

Figure 855 - Maps and graphs showing movements of 383A between 2018-12-06 and 2018-12-09 inclusive.

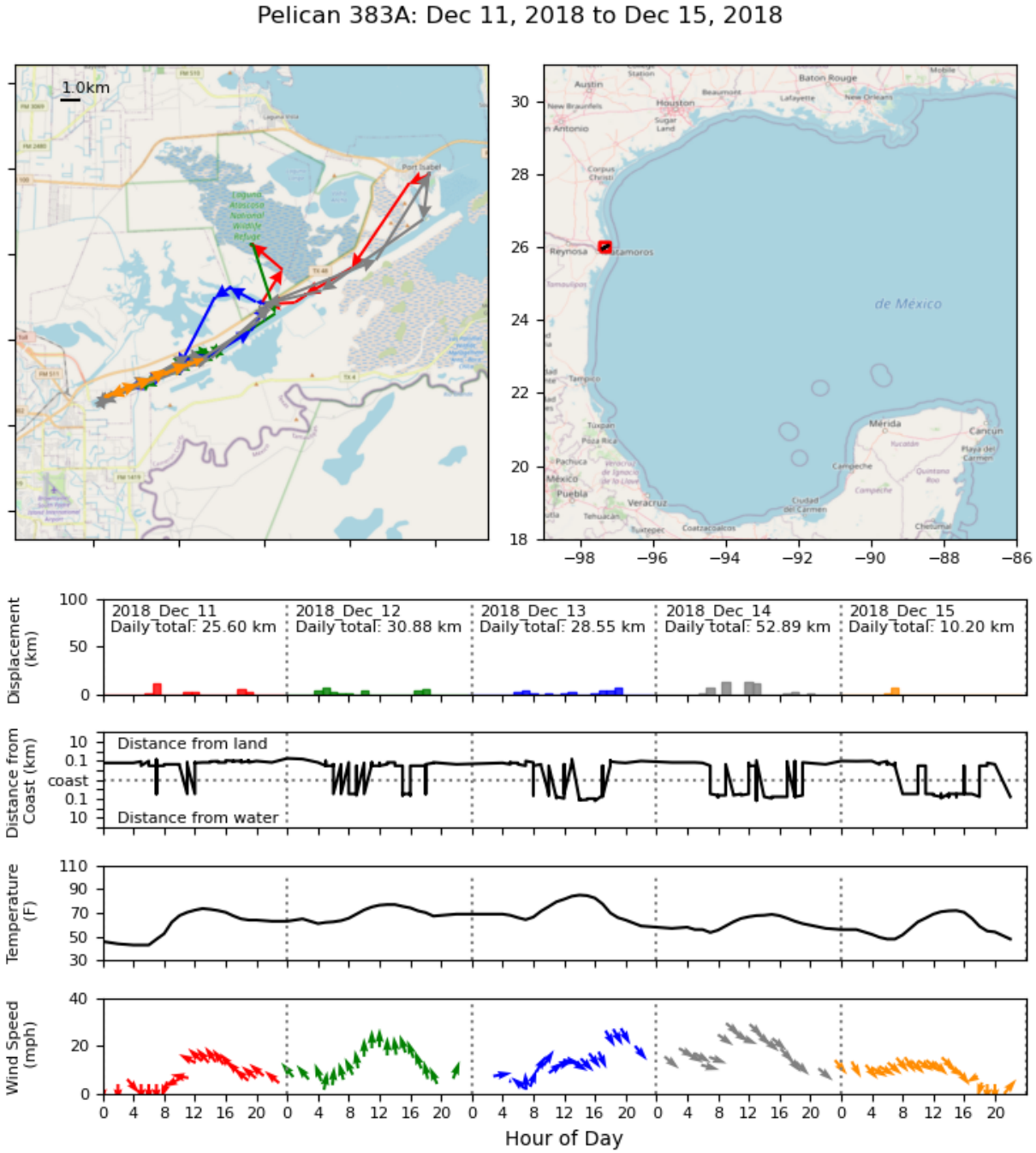

Figure 856 - Maps and graphs showing movements of 383A between 2018-12-11 and 2018-12-14 inclusive.

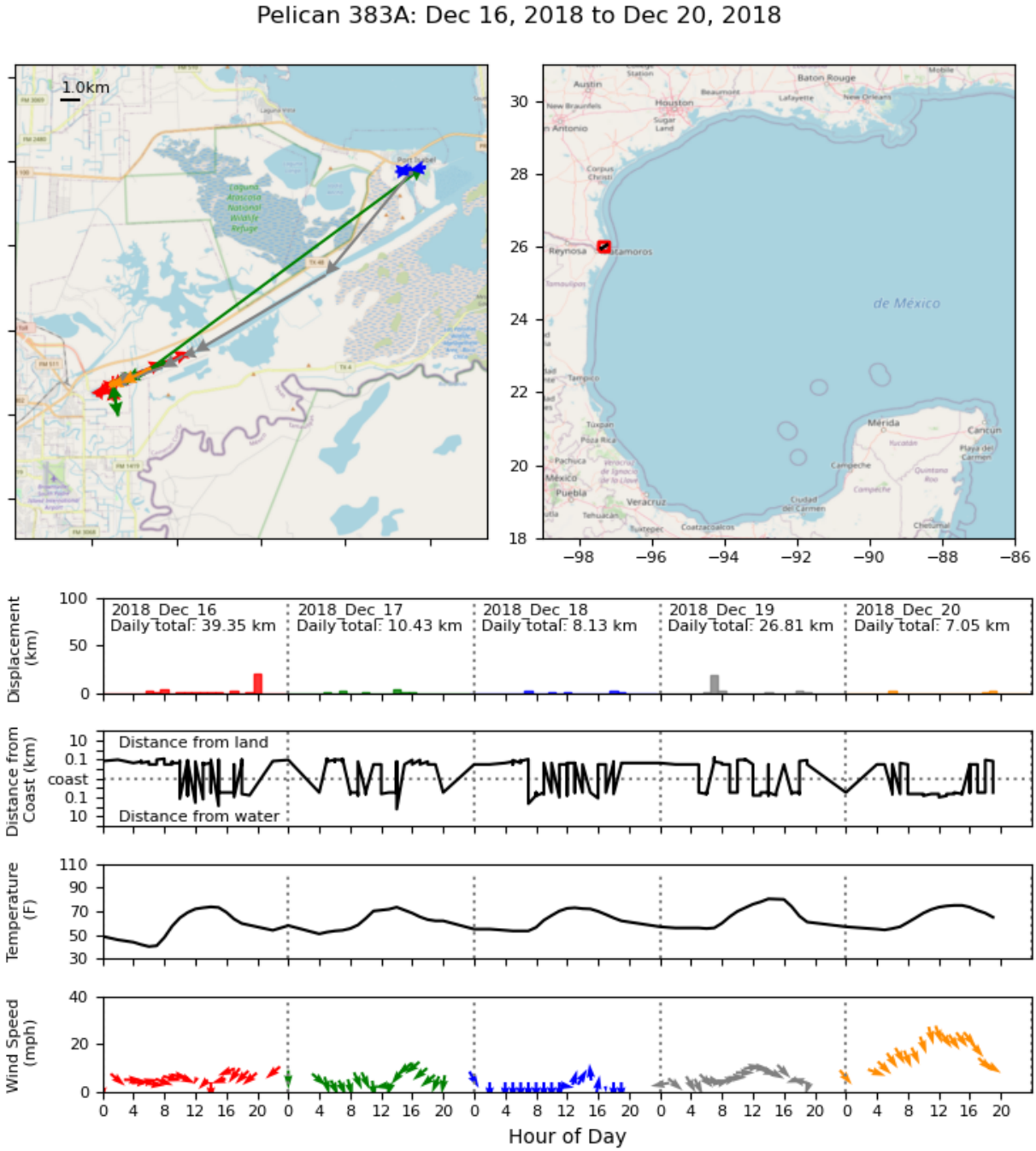

Figure 857 - Maps and graphs showing movements of 383A between 2018-12-16 and 2018-12-19 inclusive.

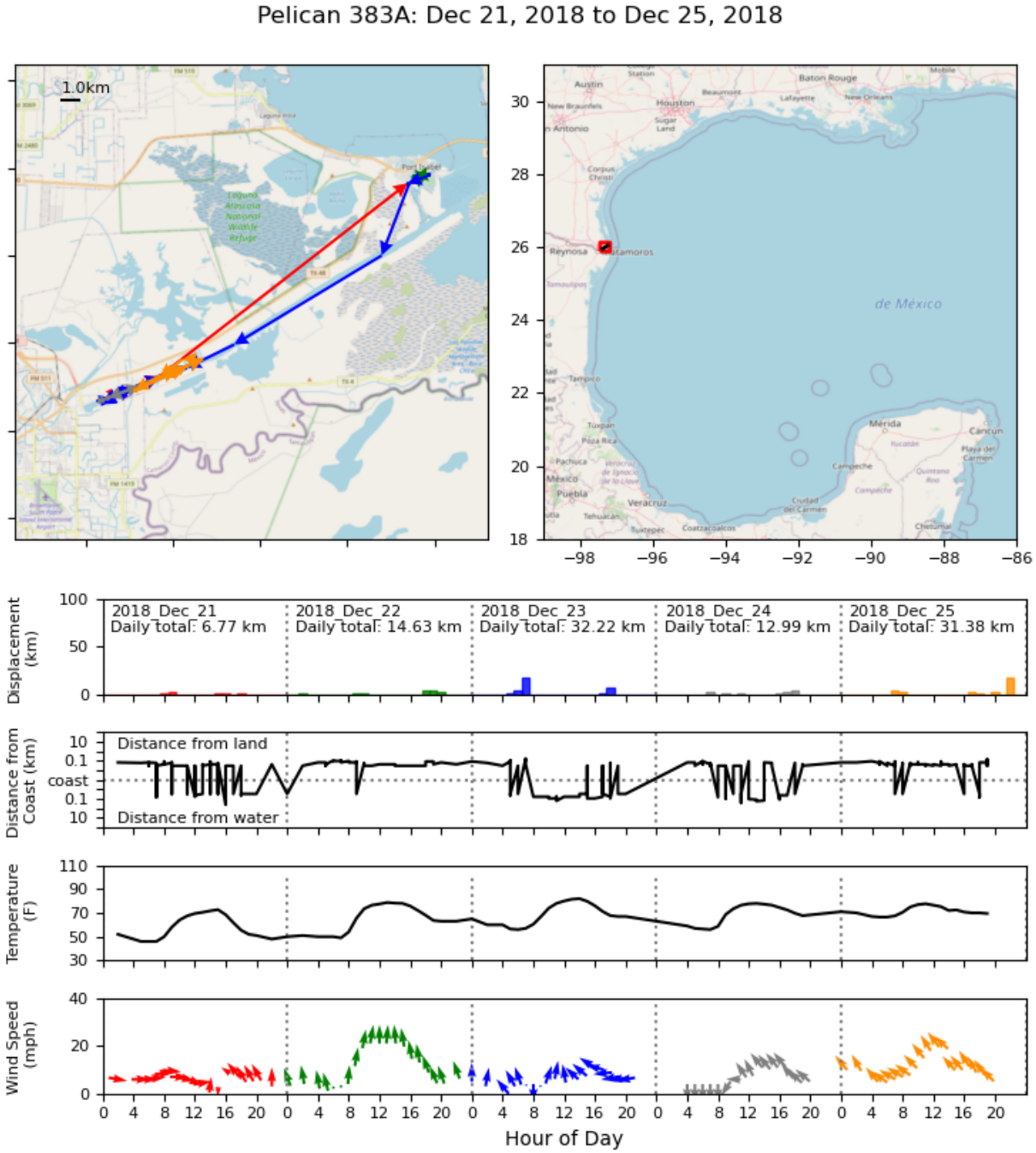

Figure 858 - Maps and graphs showing movements of 383A between 2018-12-21 and 2018-12-24 inclusive.

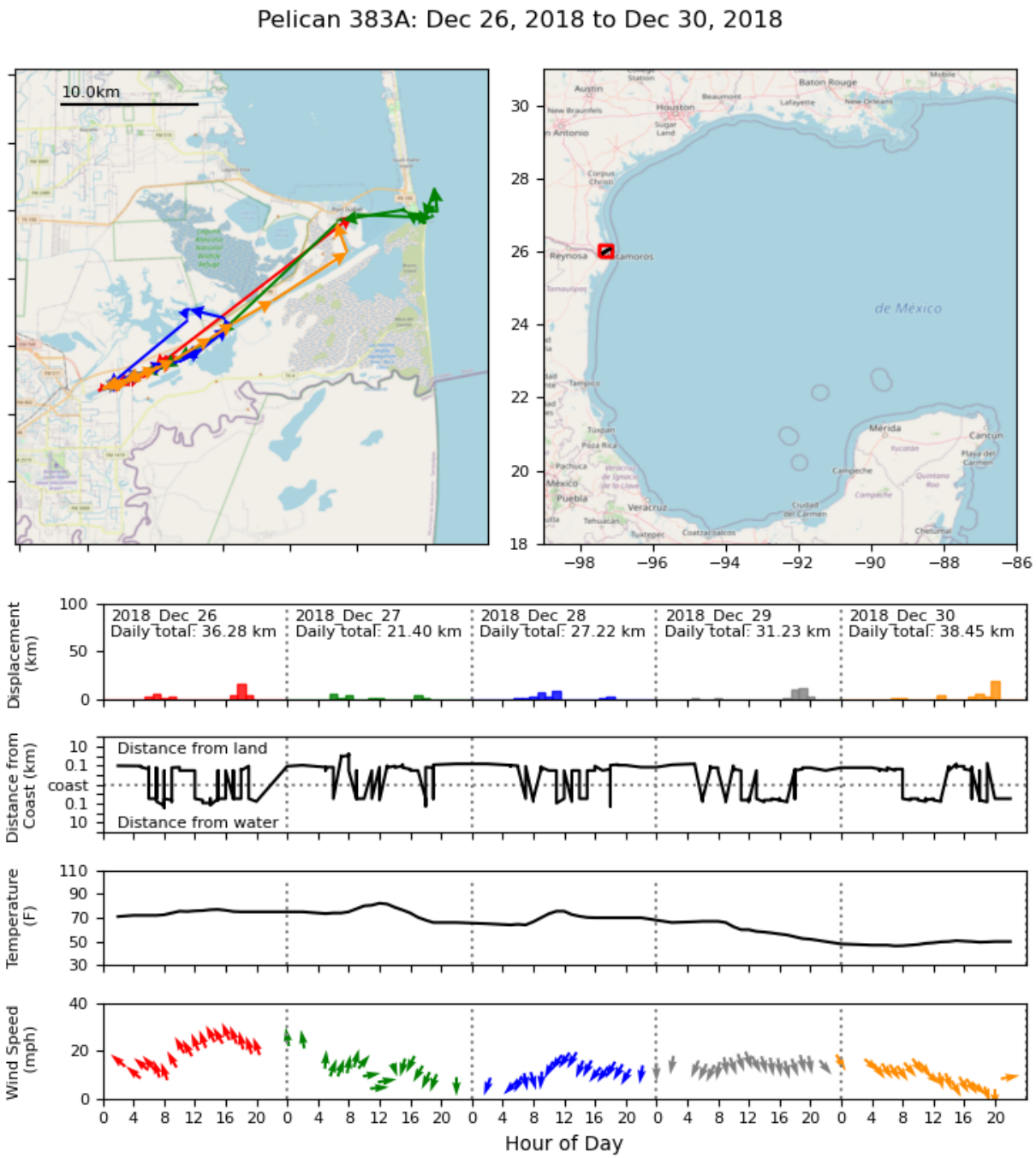

Figure 859 - Maps and graphs showing movements of 383A between 2018-12-26 and 2018-12-29 inclusive.

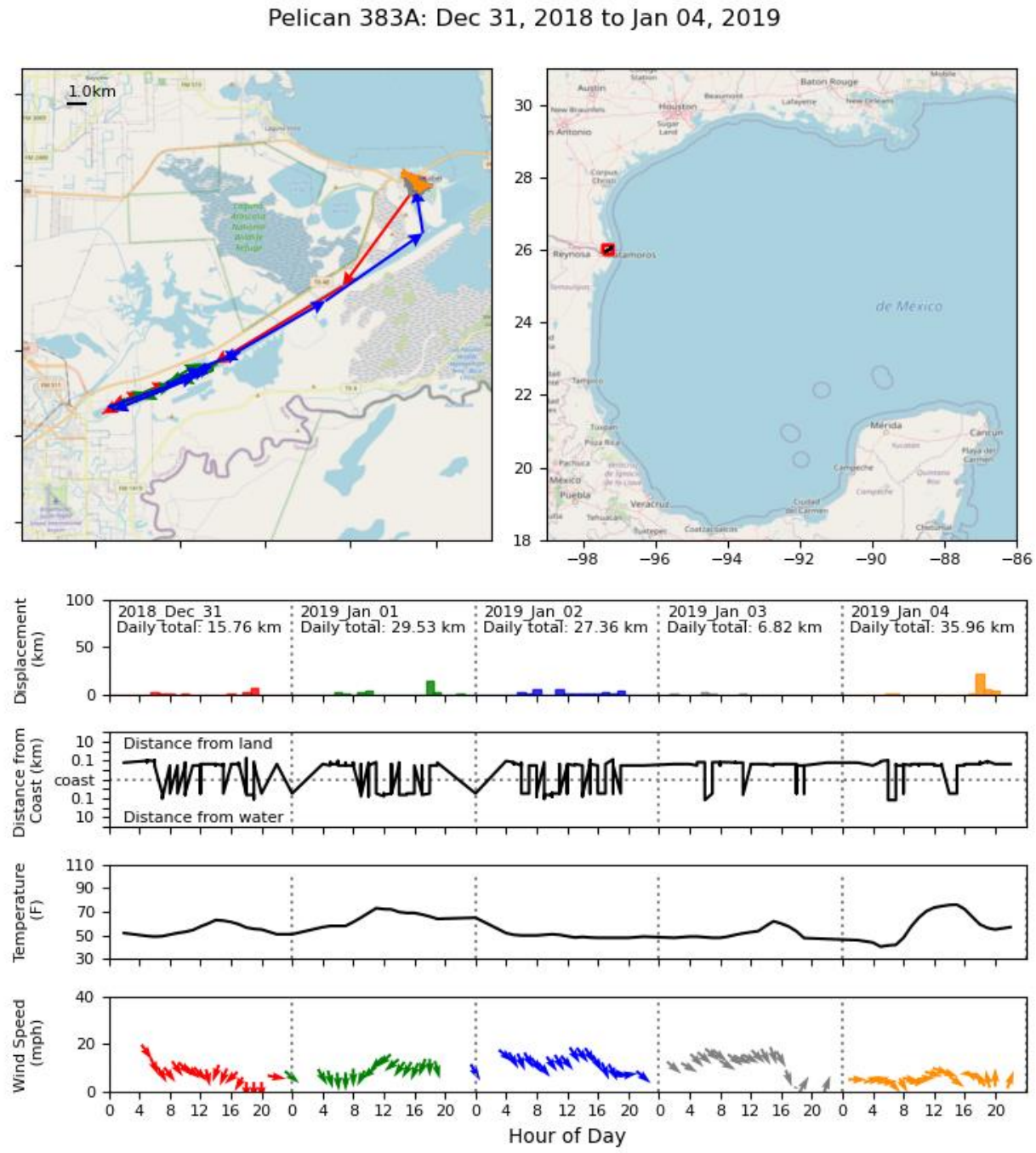

Figure 860 - Maps and graphs showing movements of 383A between 2018-12-31 and 2019-01-03 inclusive.

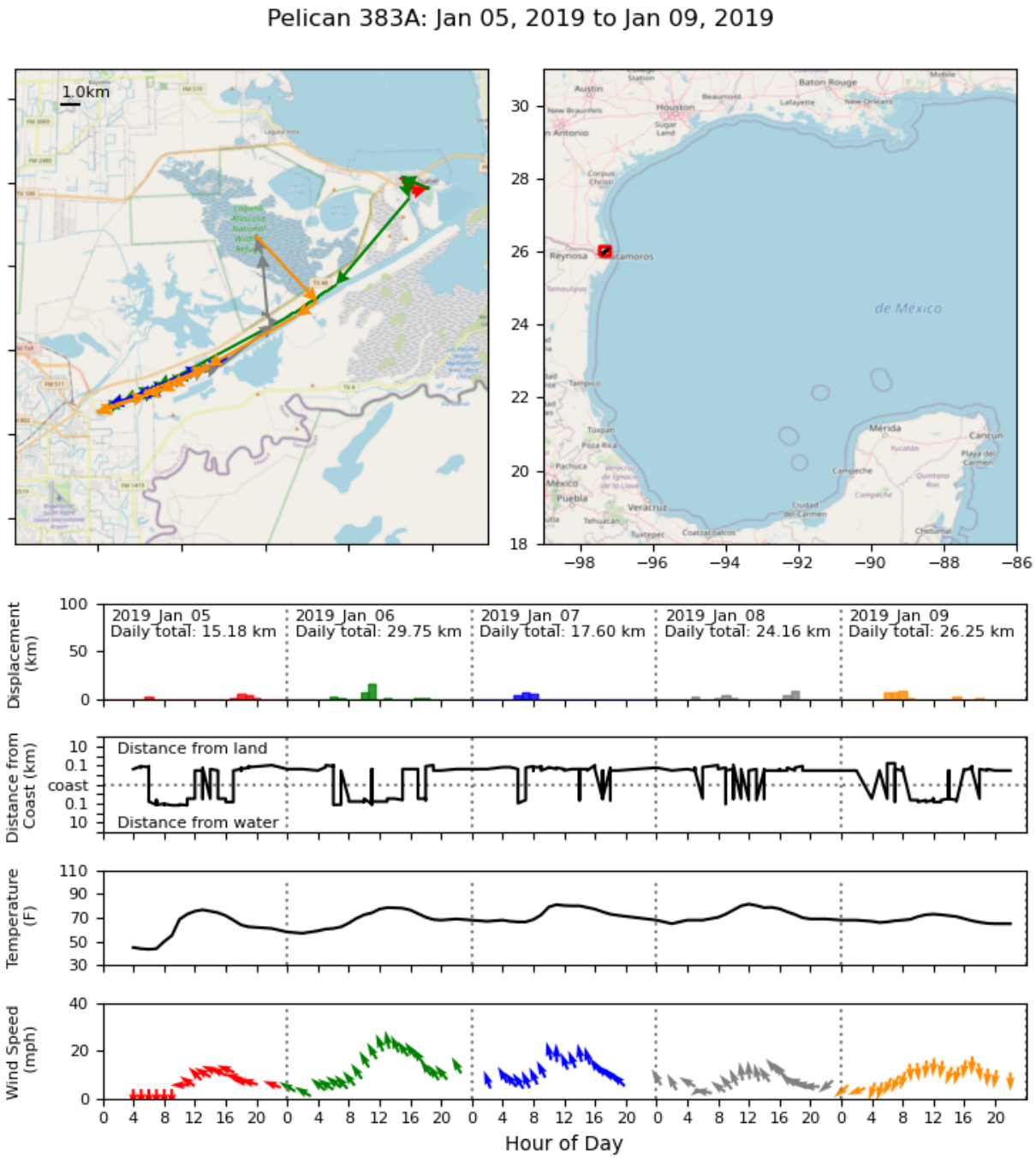

Figure 861 - Maps and graphs showing movements of 383A between 2019-01-05 and 2019-01-08 inclusive.

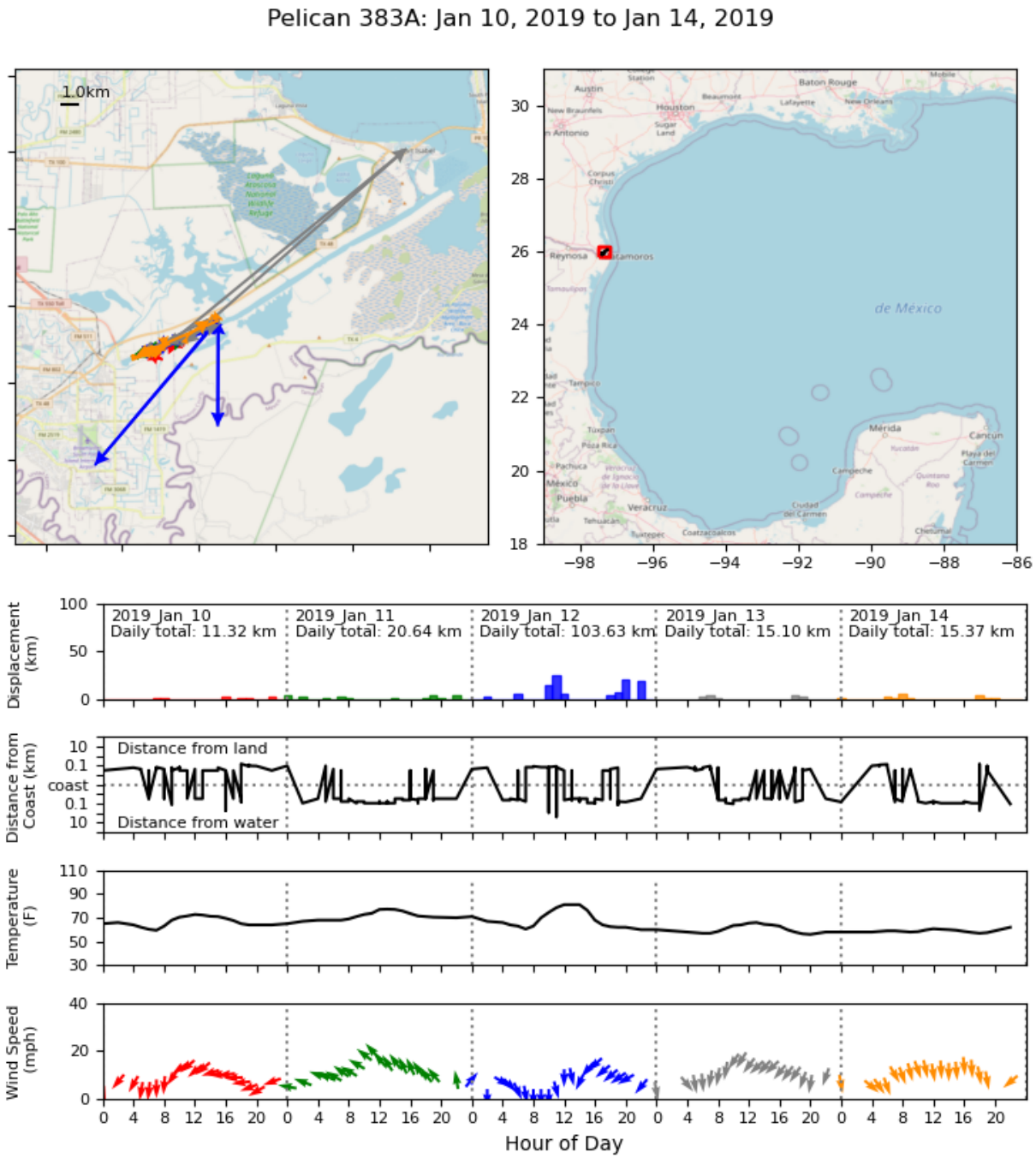

Figure 862 - Maps and graphs showing movements of 383A between 2019-01-10 and 2019-01-13 inclusive.

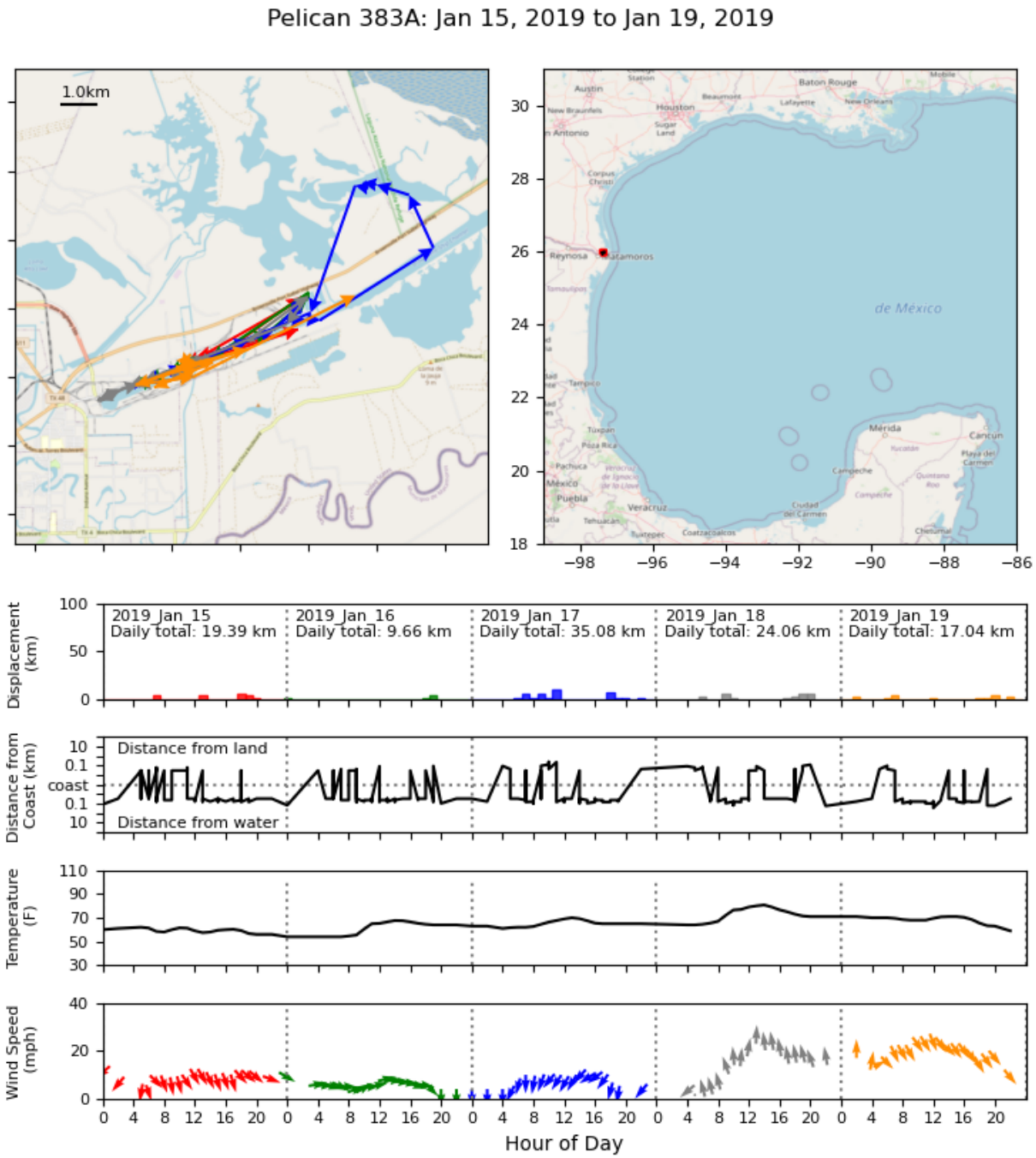

Figure 863 - Maps and graphs showing movements of 383A between 2019-01-15 and 2019-01-18 inclusive.

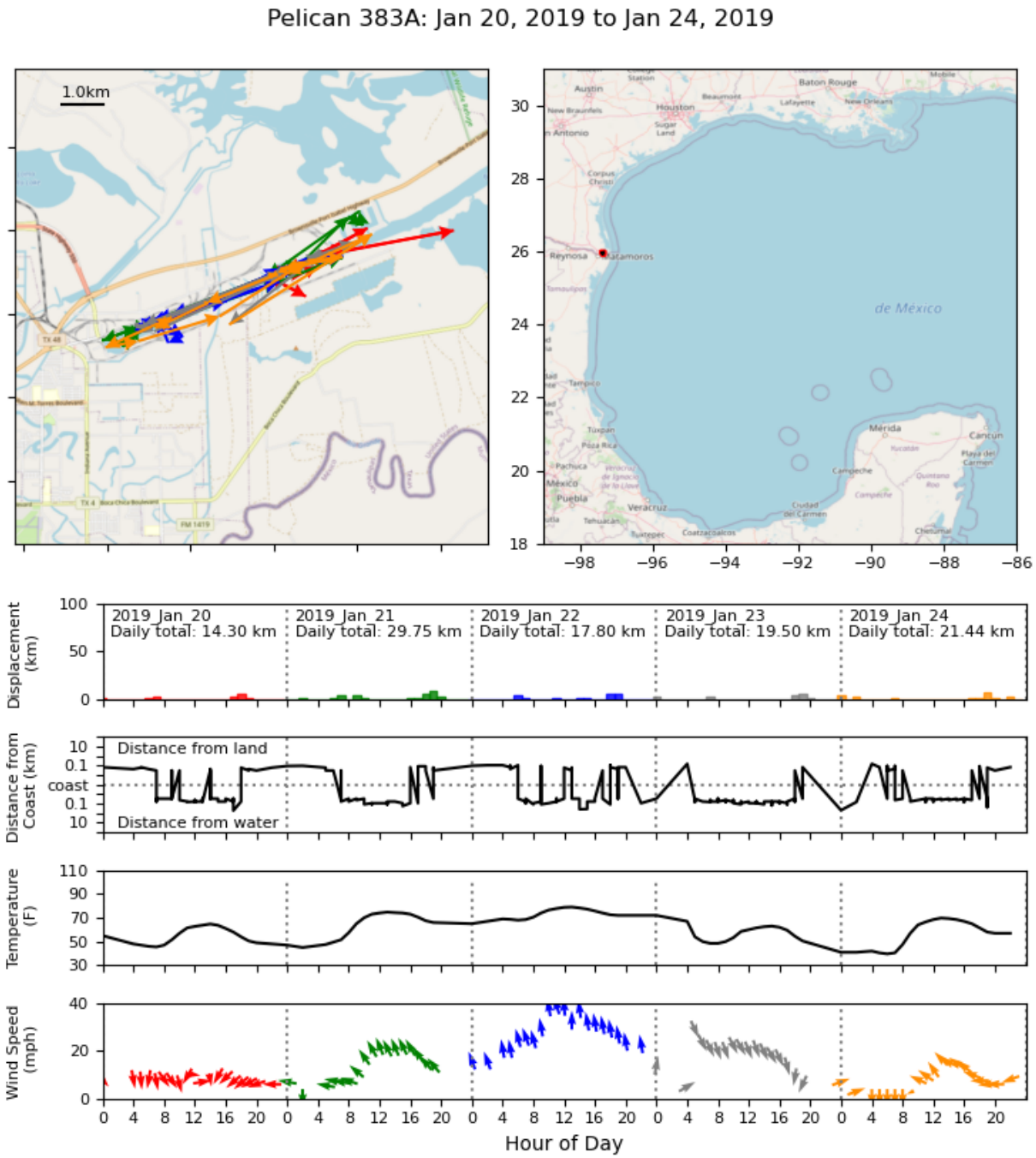

Figure 864 - Maps and graphs showing movements of 383A between 2019-01-20 and 2019-01-23 inclusive.

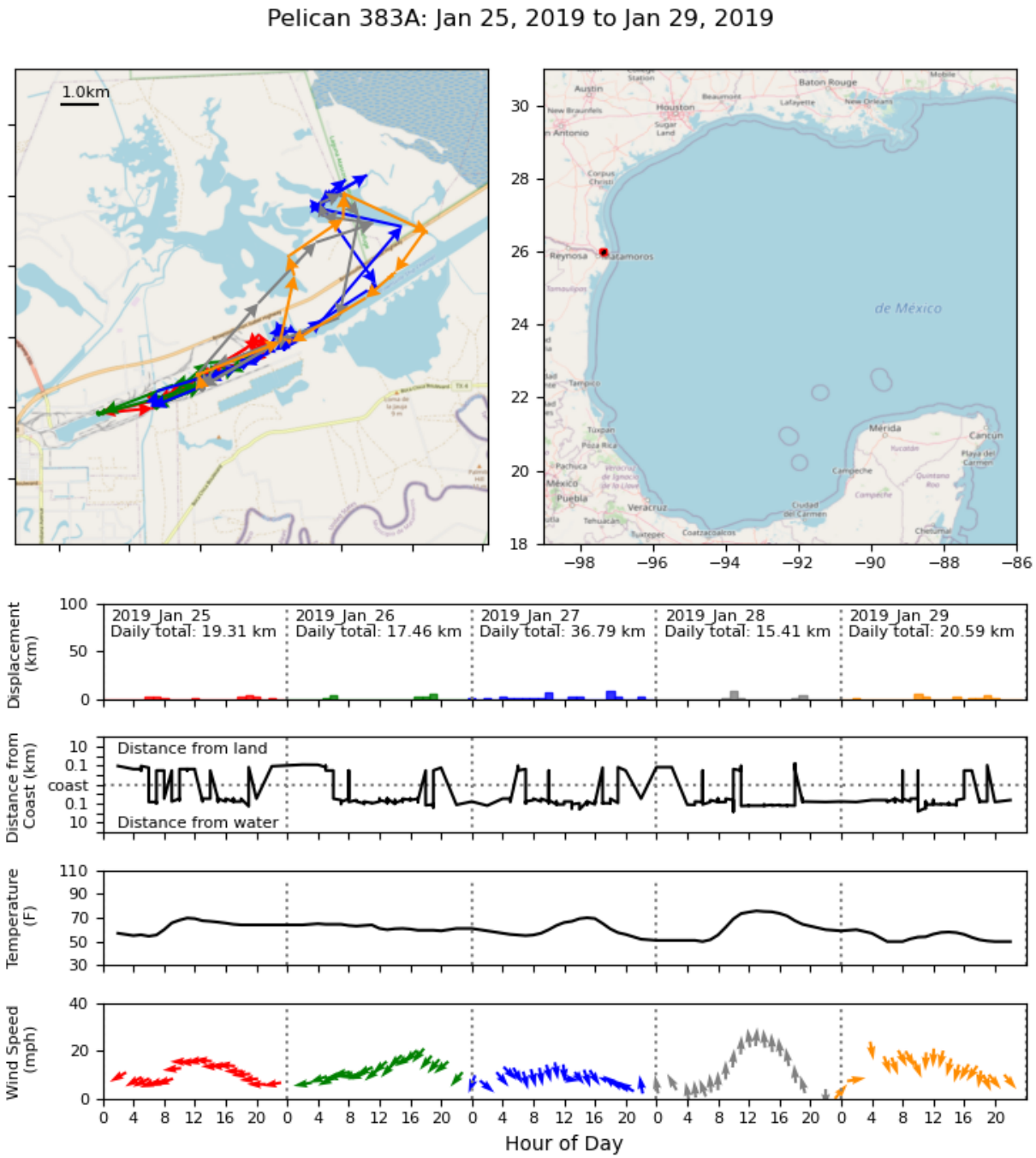

Figure 865 - Maps and graphs showing movements of 383A between 2019-01-25 and 2019-01-28 inclusive.

Pelican 75A3 - Active from December 10, 2018 to January 27, 2019

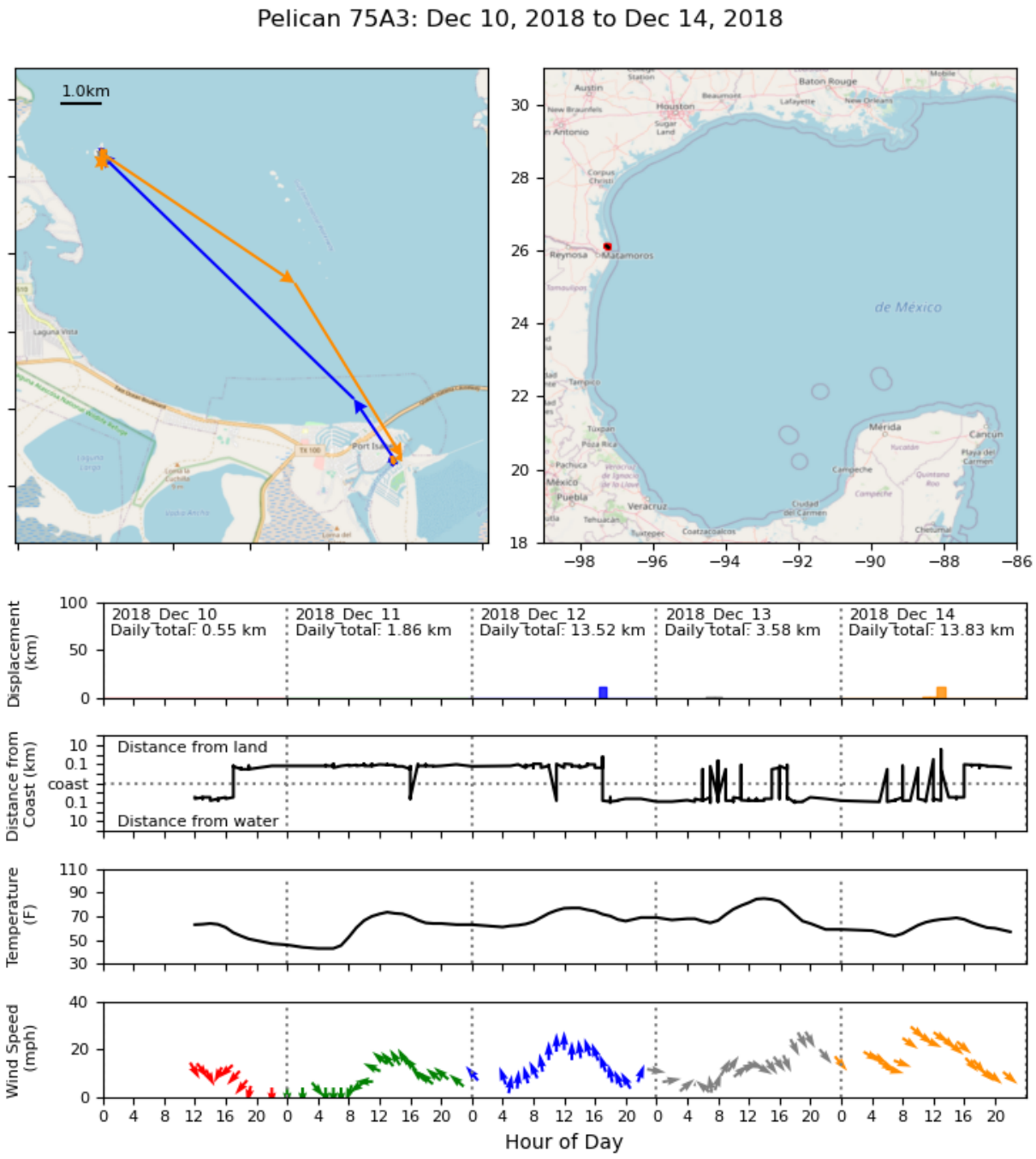

Figure 866 - Maps and graphs showing movements of 75A3 between 2018-12-10 and 2018-12-13 inclusive.

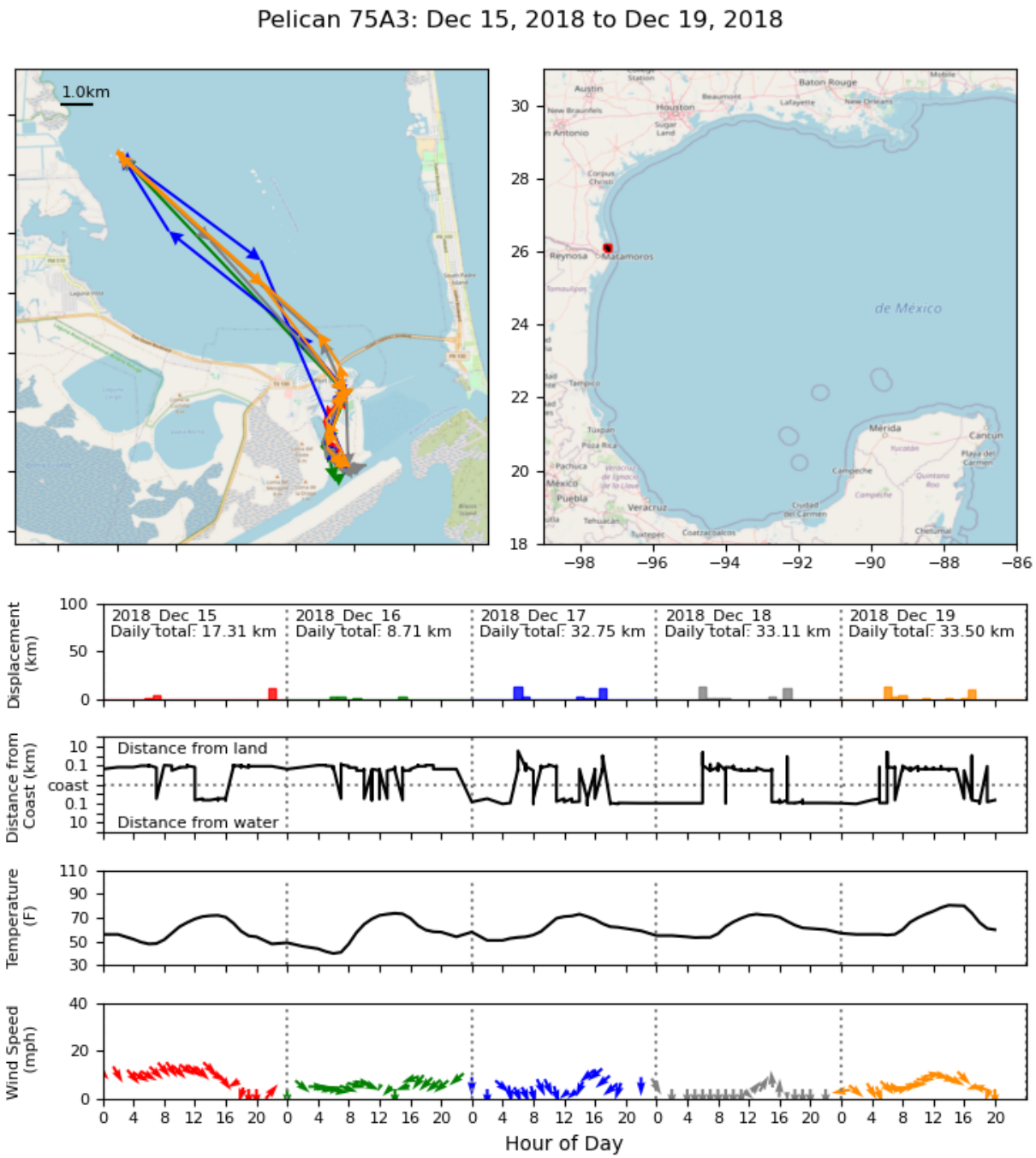

Figure 867 - Maps and graphs showing movements of 75A3 between 2018-12-15 and 2018-12-18 inclusive.

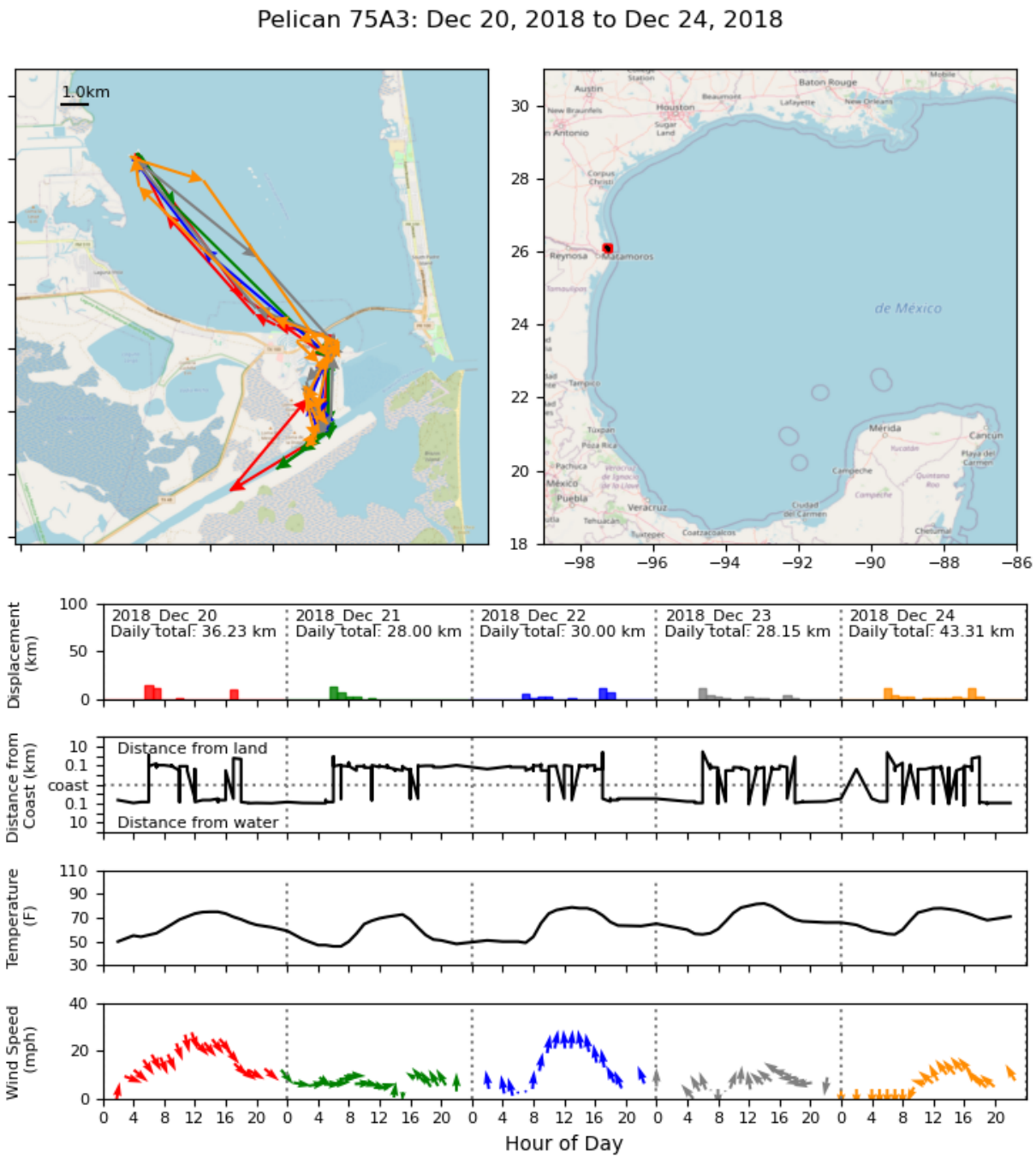

Figure 868 - Maps and graphs showing movements of 75A3 between 2018-12-20 and 2018-12-23 inclusive.

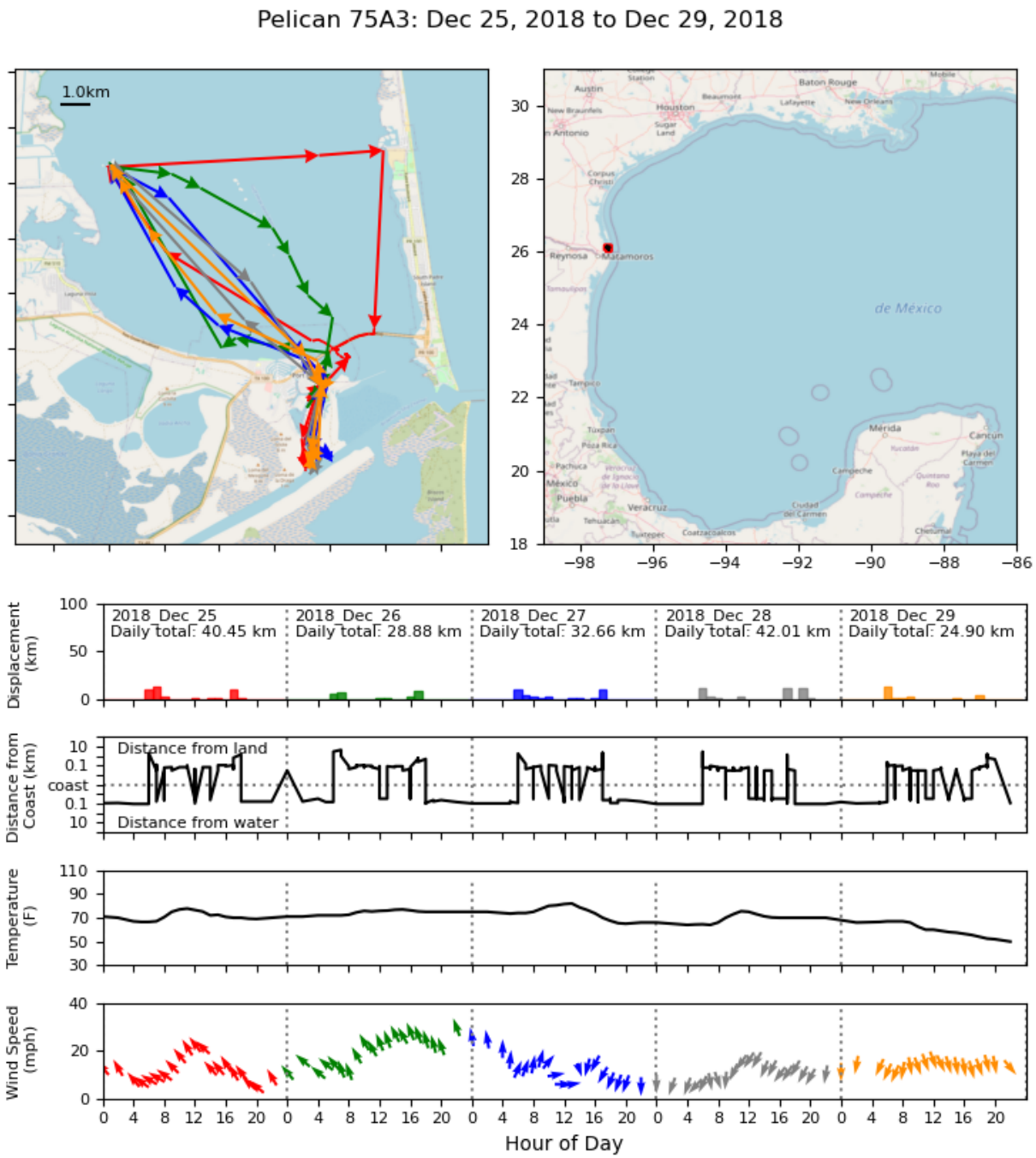

Figure 869 - Maps and graphs showing movements of 75A3 between 2018-12-25 and 2018-12-28 inclusive.

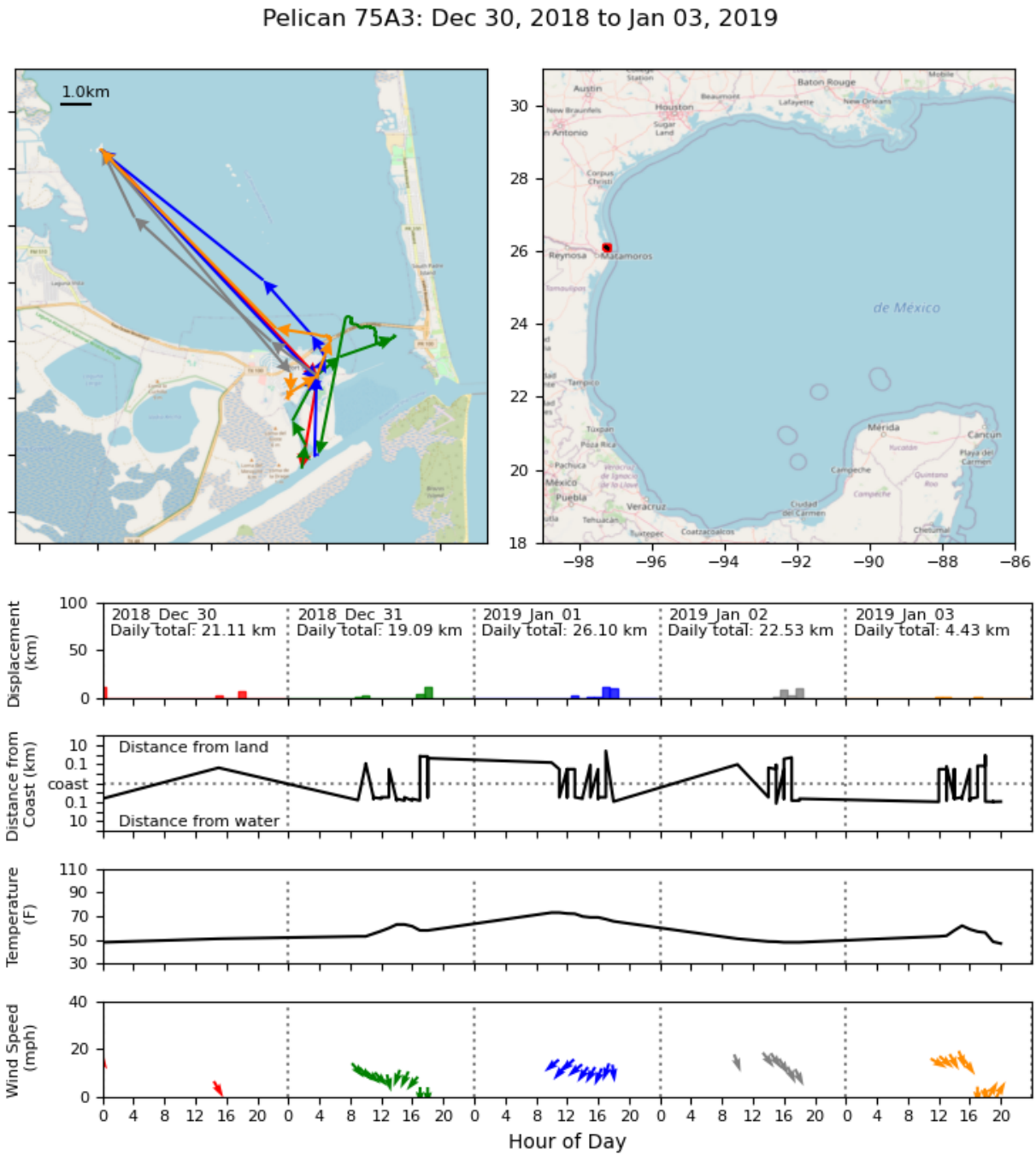

Figure 870 - Maps and graphs showing movements of 75A3 between 2018-12-30 and 2019-01-02 inclusive.

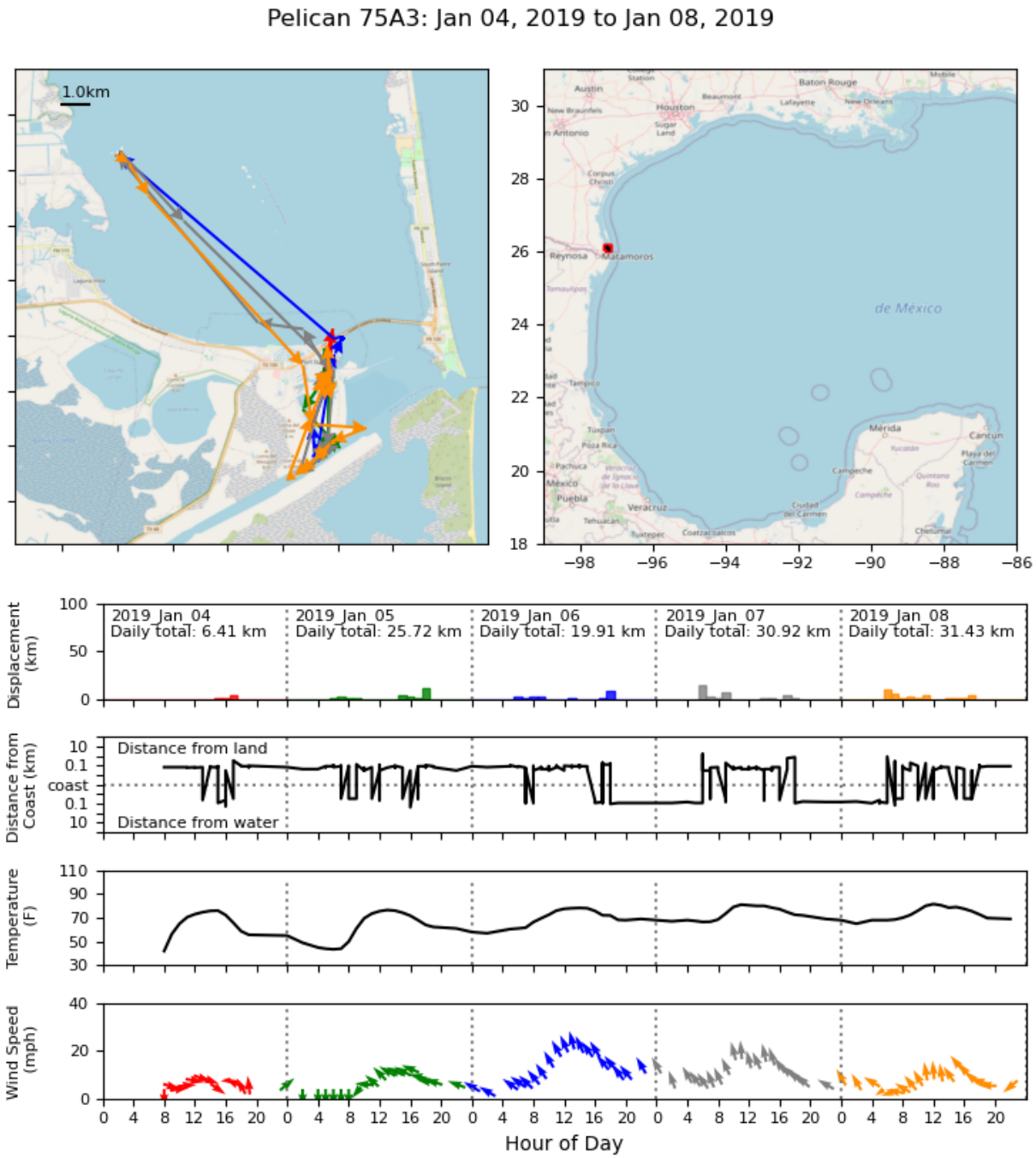

Figure 871 - Maps and graphs showing movements of 75A3 between 2019-01-04 and 2019-01-07 inclusive.

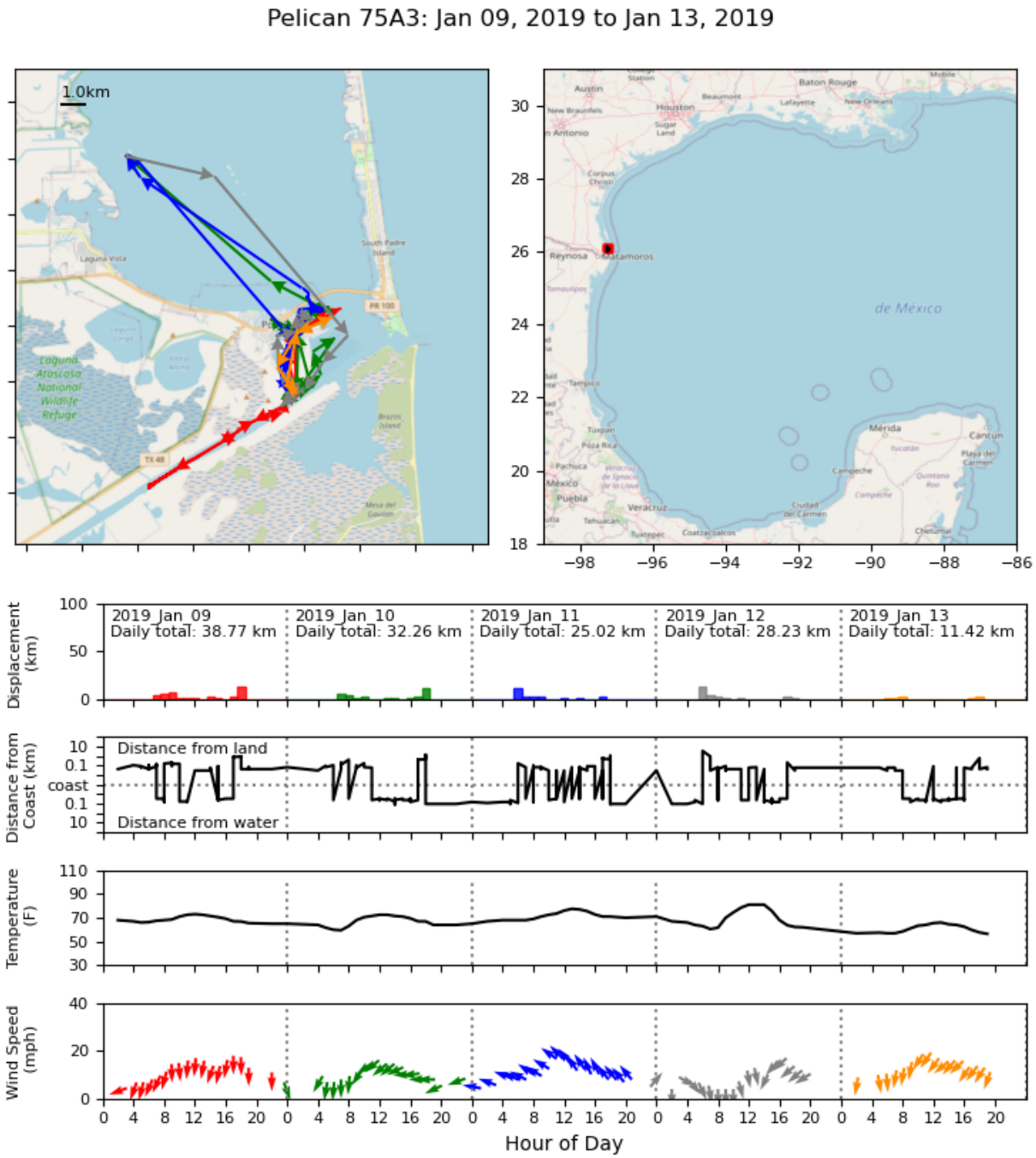

Figure 872 - Maps and graphs showing movements of 75A3 between 2019-01-09 and 2019-01-12 inclusive.

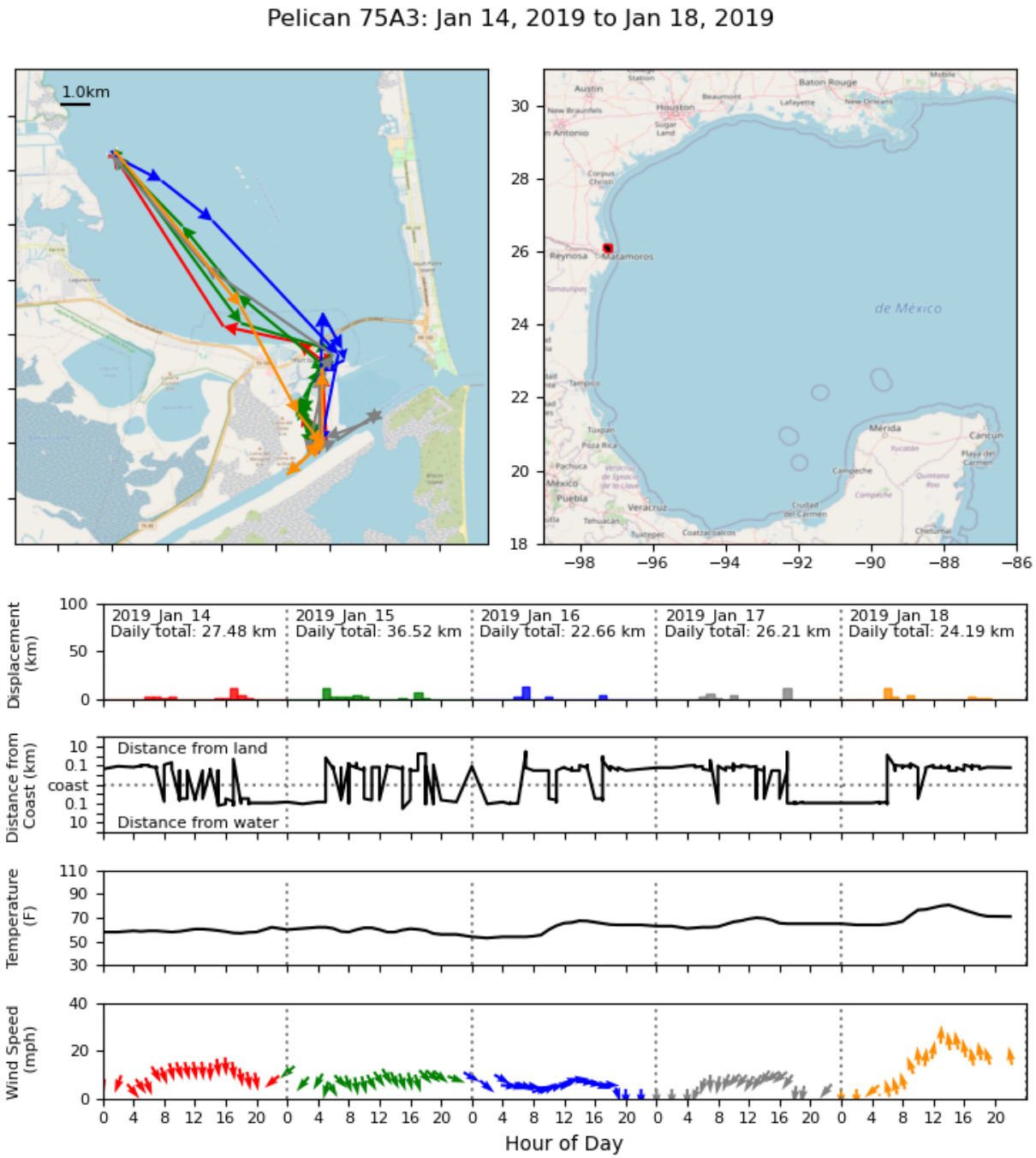

Figure 873 - Maps and graphs showing movements of 75A3 between 2019-01-14 and 2019-01-17 inclusive.

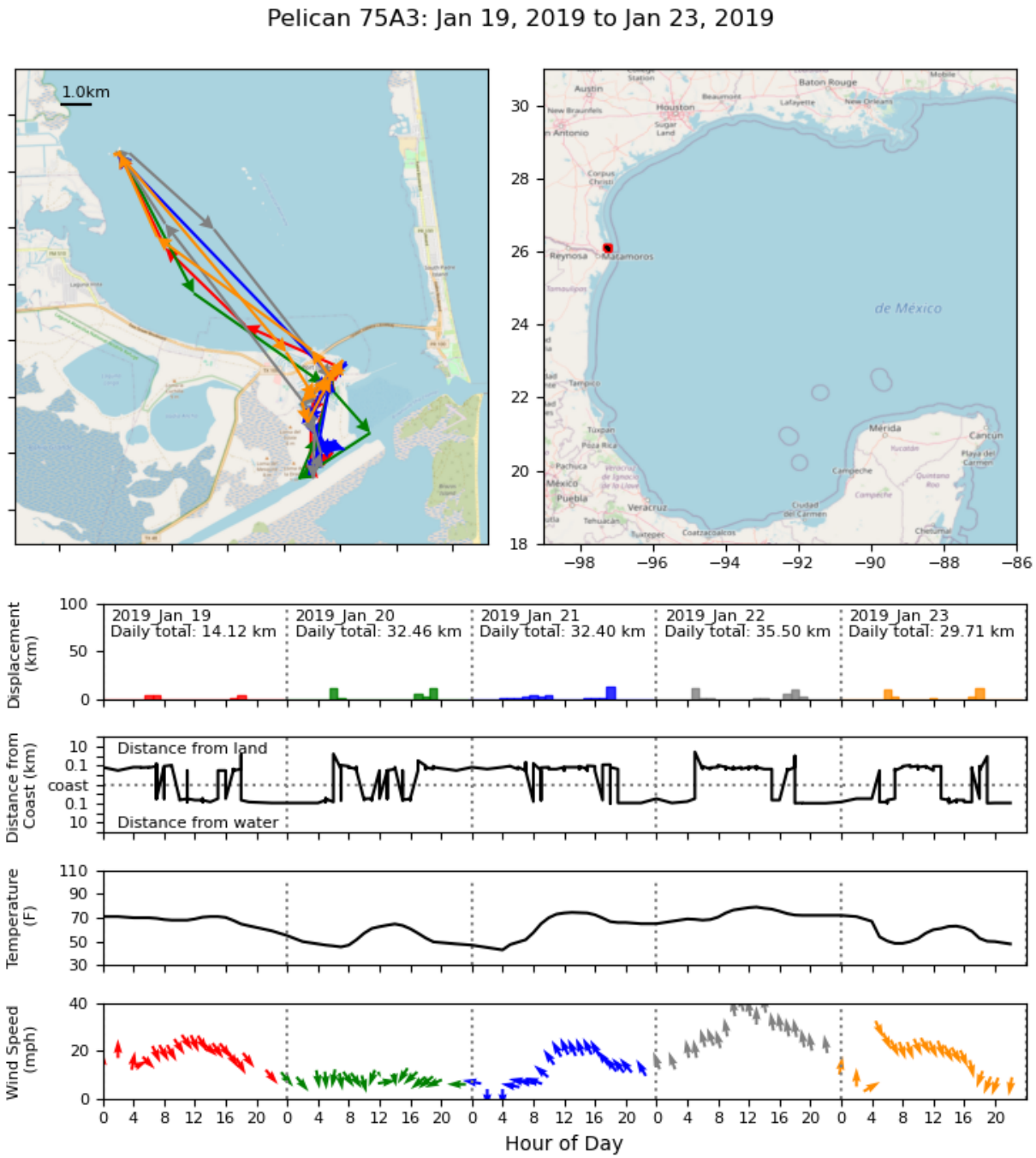

Figure 874 - Maps and graphs showing movements of 75A3 between 2019-01-19 and 2019-01-22 inclusive.

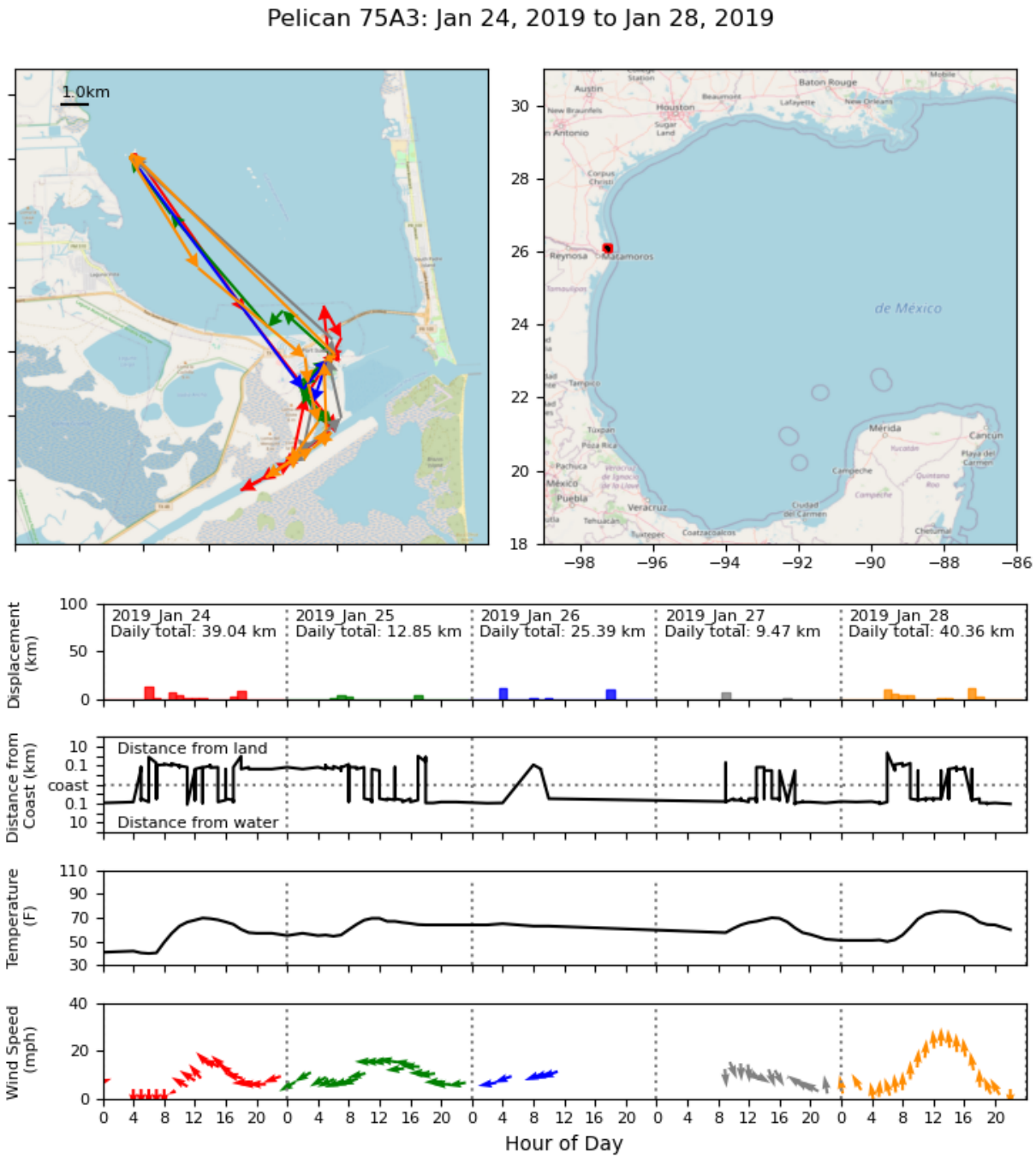

Figure 875 - Maps and graphs showing movements of 75A3 between 2019-01-24 and 2019-01-27 inclusive.

Pelican A65A - Active from December 12, 2018 to December 30, 2018

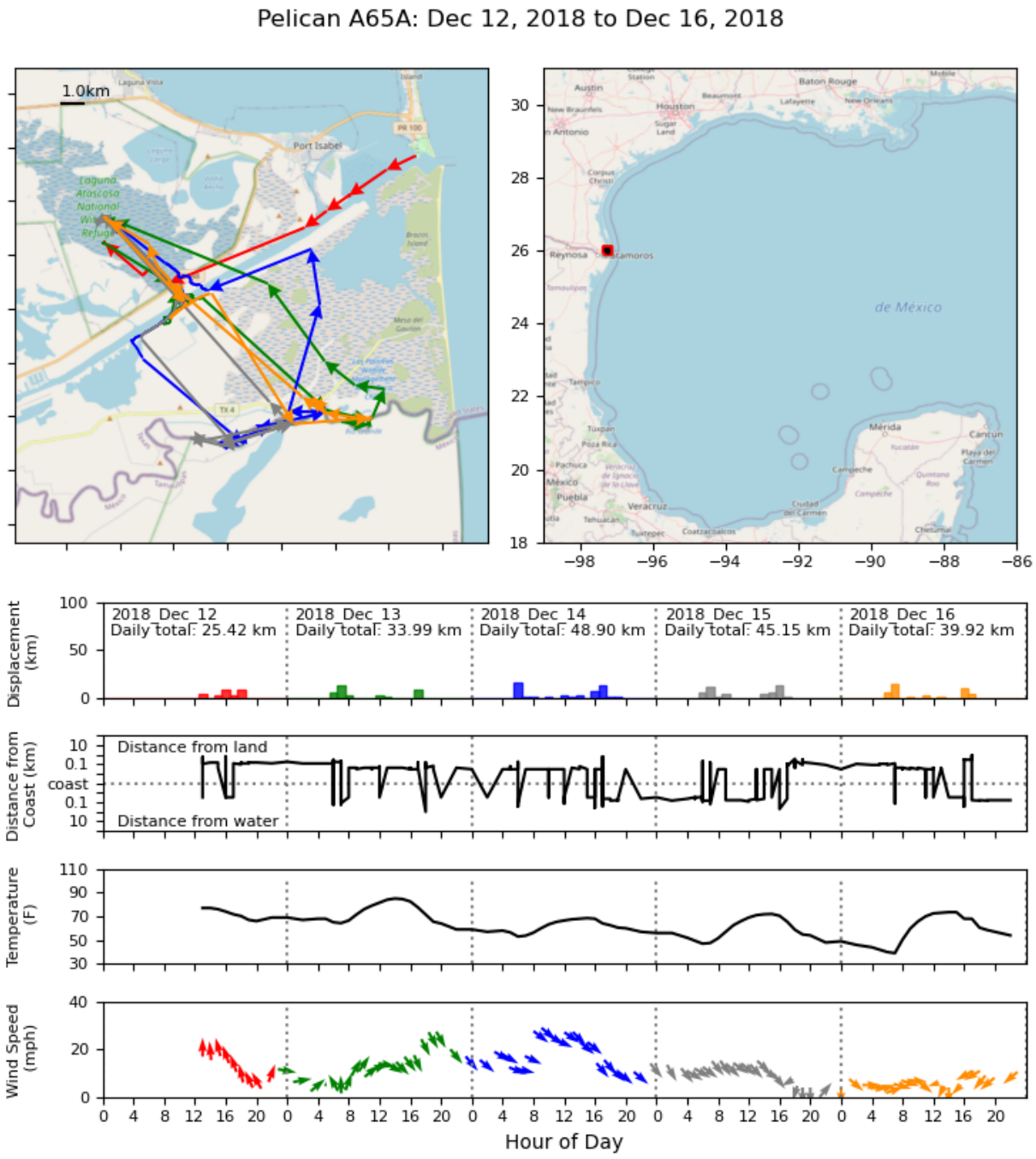

Figure 876 - Maps and graphs showing movements of A65A between 2018-12-12 and 2018-12-15 inclusive.

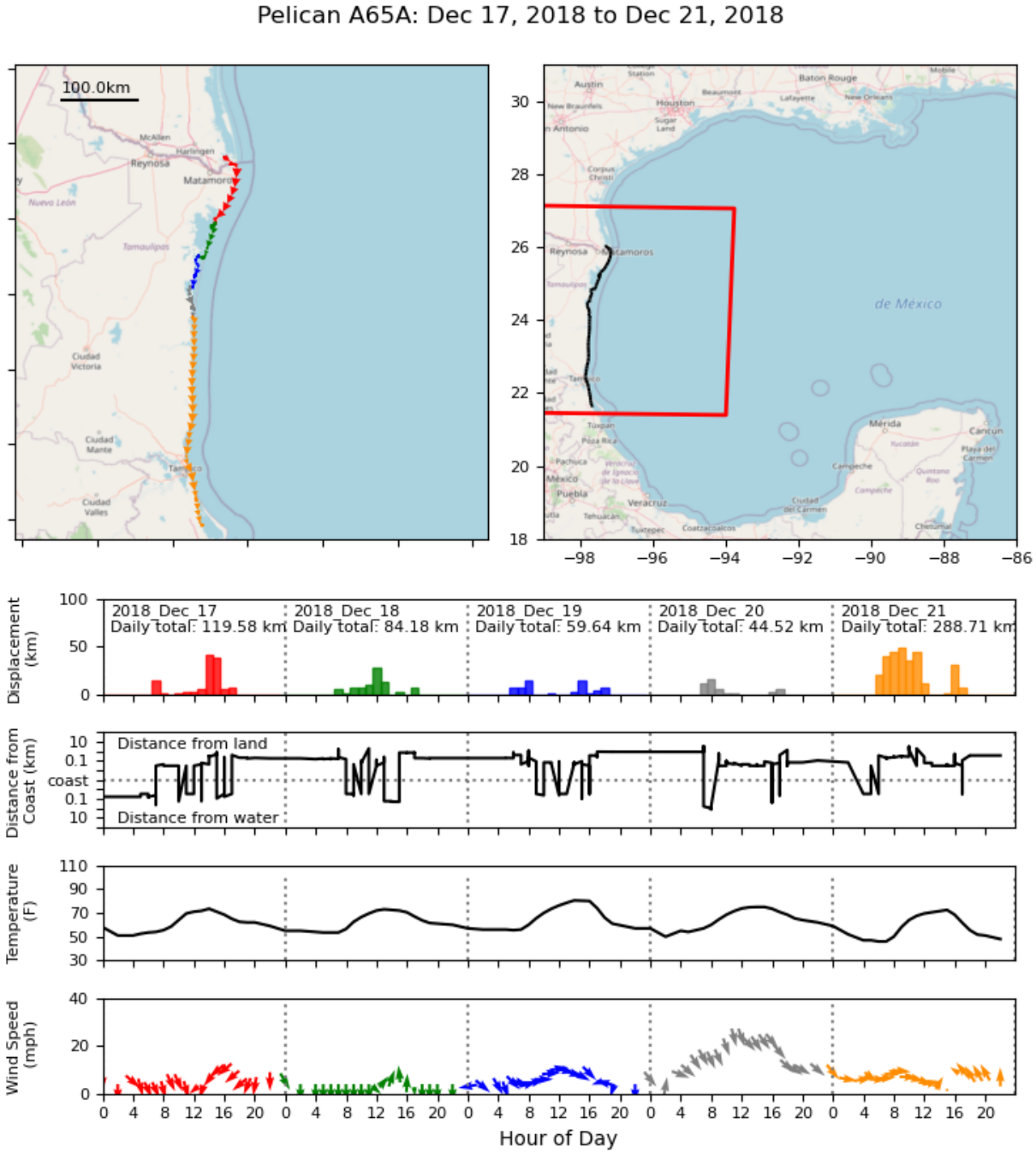

Figure 877 - Maps and graphs showing movements of A65A between 2018-12-17 and 2018-12-20 inclusive.

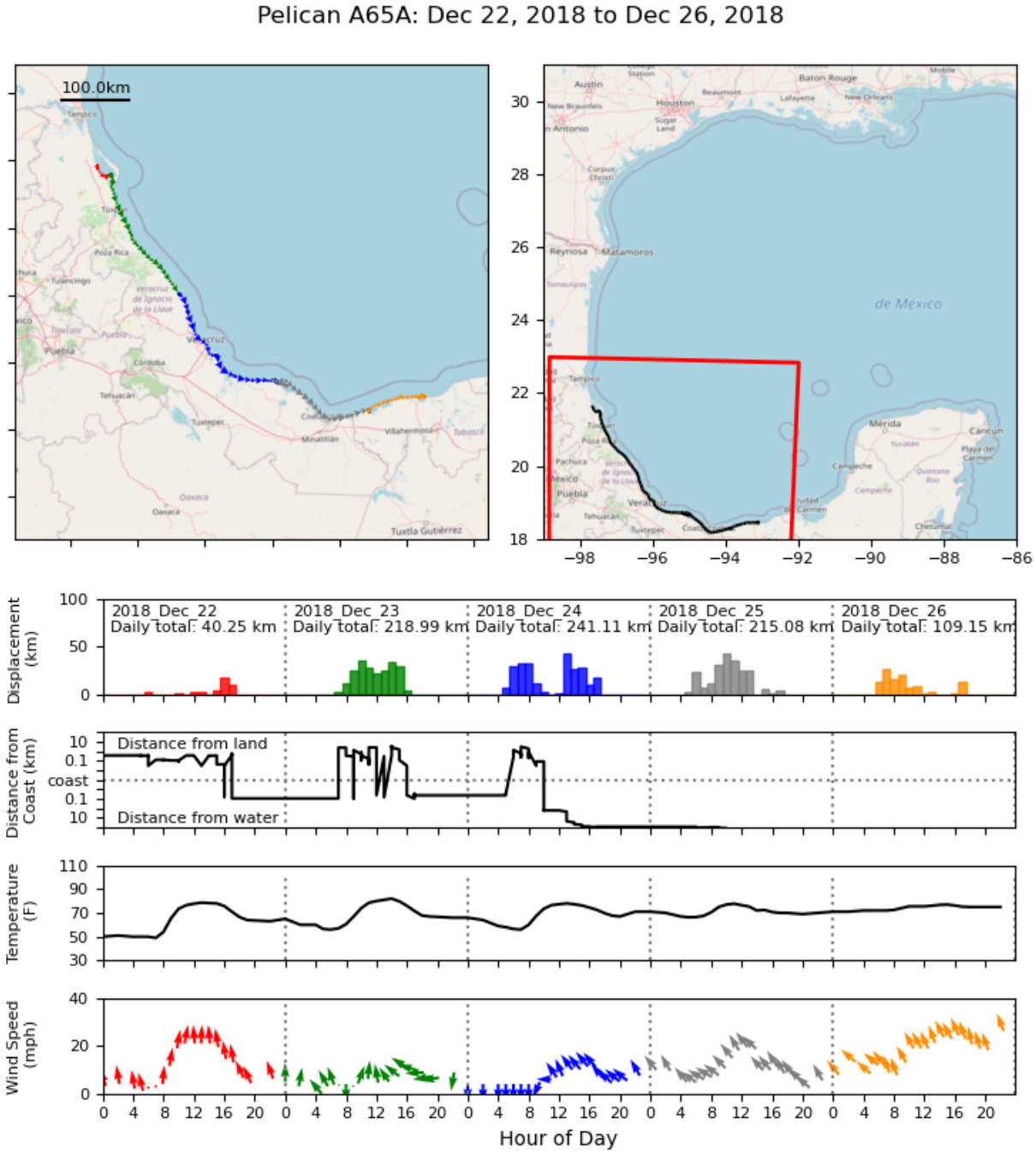

Figure 878 - Maps and graphs showing movements of A65A between 2018-12-22 and 2018-12-25 inclusive.

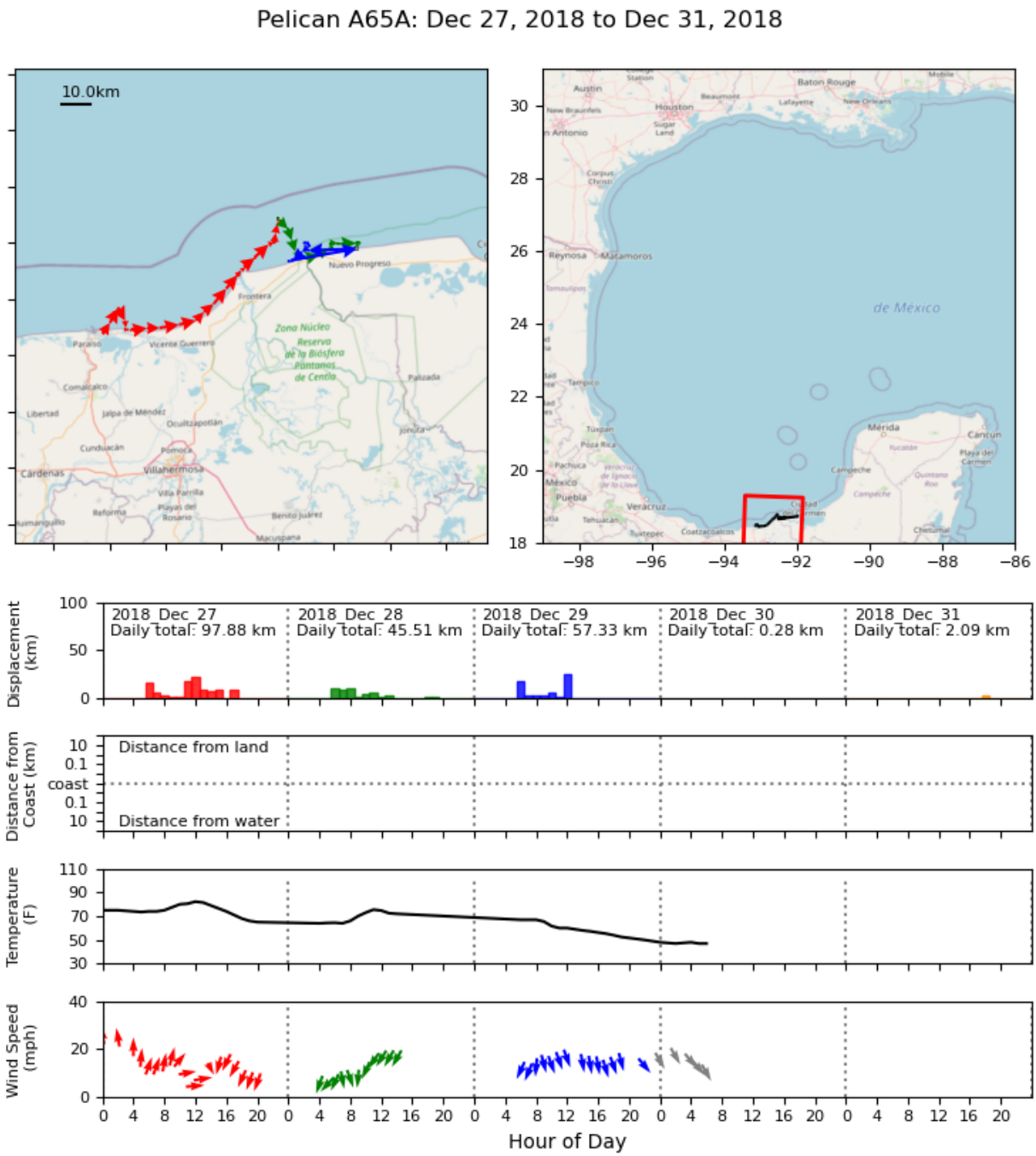

Figure 879 - Maps and graphs showing movements of A65A between 2018-12-27 and 2018-12-30 inclusive.

Pelican 443A7 - Active from December 12, 2018 to August 13, 2020

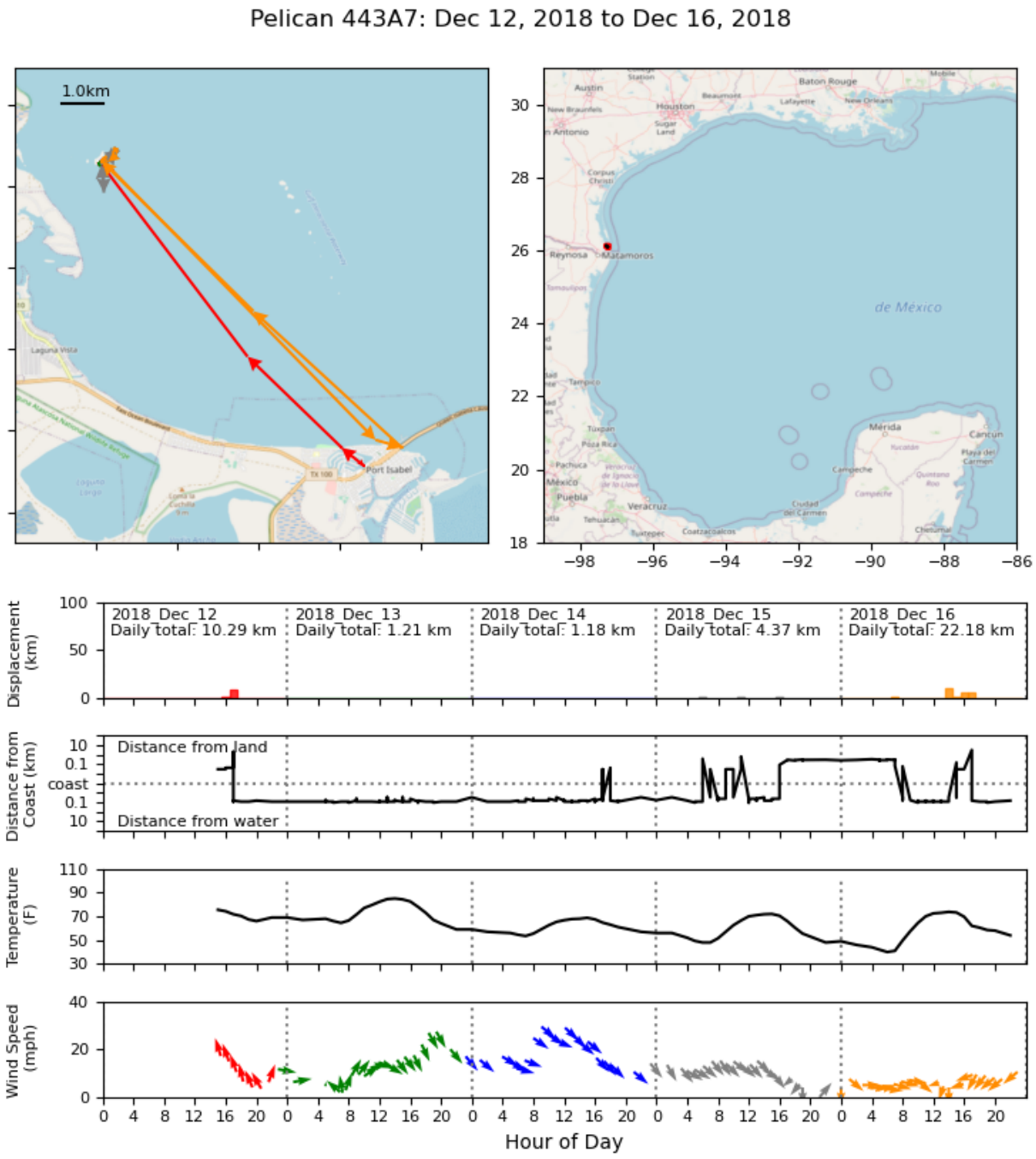

Figure 880 - Maps and graphs showing movements of 443A7 between 2018-12-12 and 2018-12-15 inclusive.

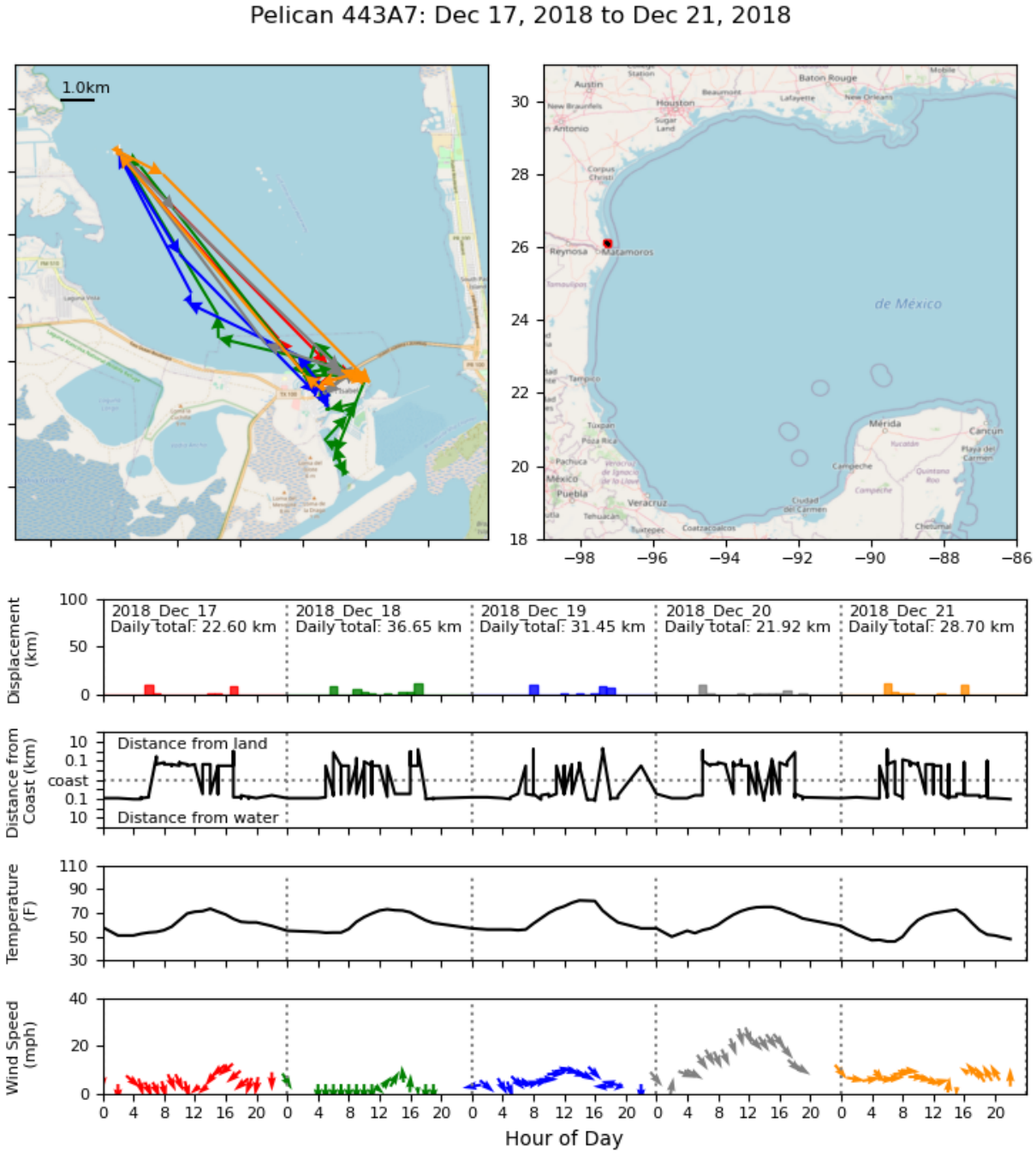

Figure 881 - Maps and graphs showing movements of 443A7 between 2018-12-17 and 2018-12-20 inclusive.

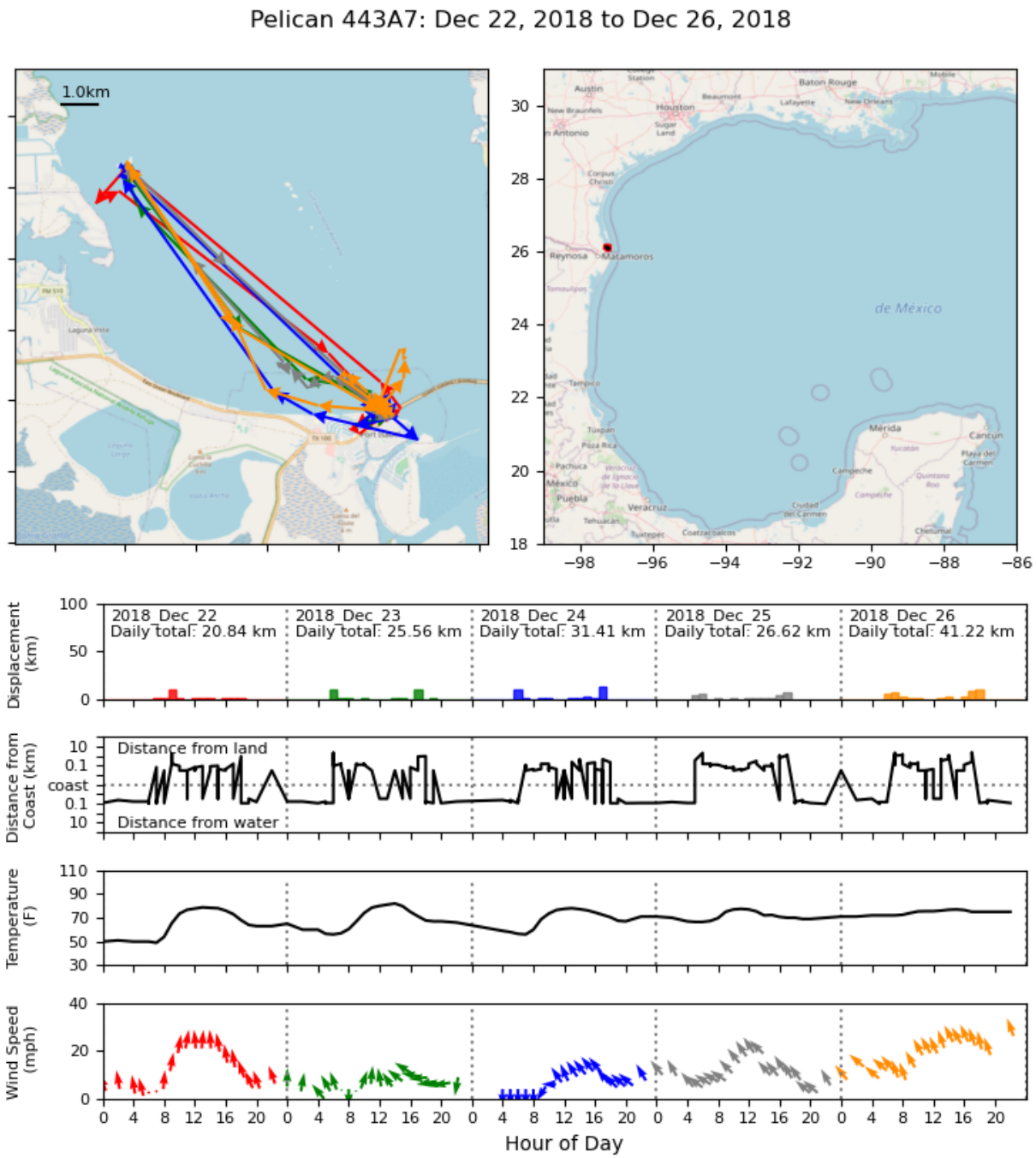

Figure 882 - Maps and graphs showing movements of 443A7 between 2018-12-22 and 2018-12-25 inclusive.

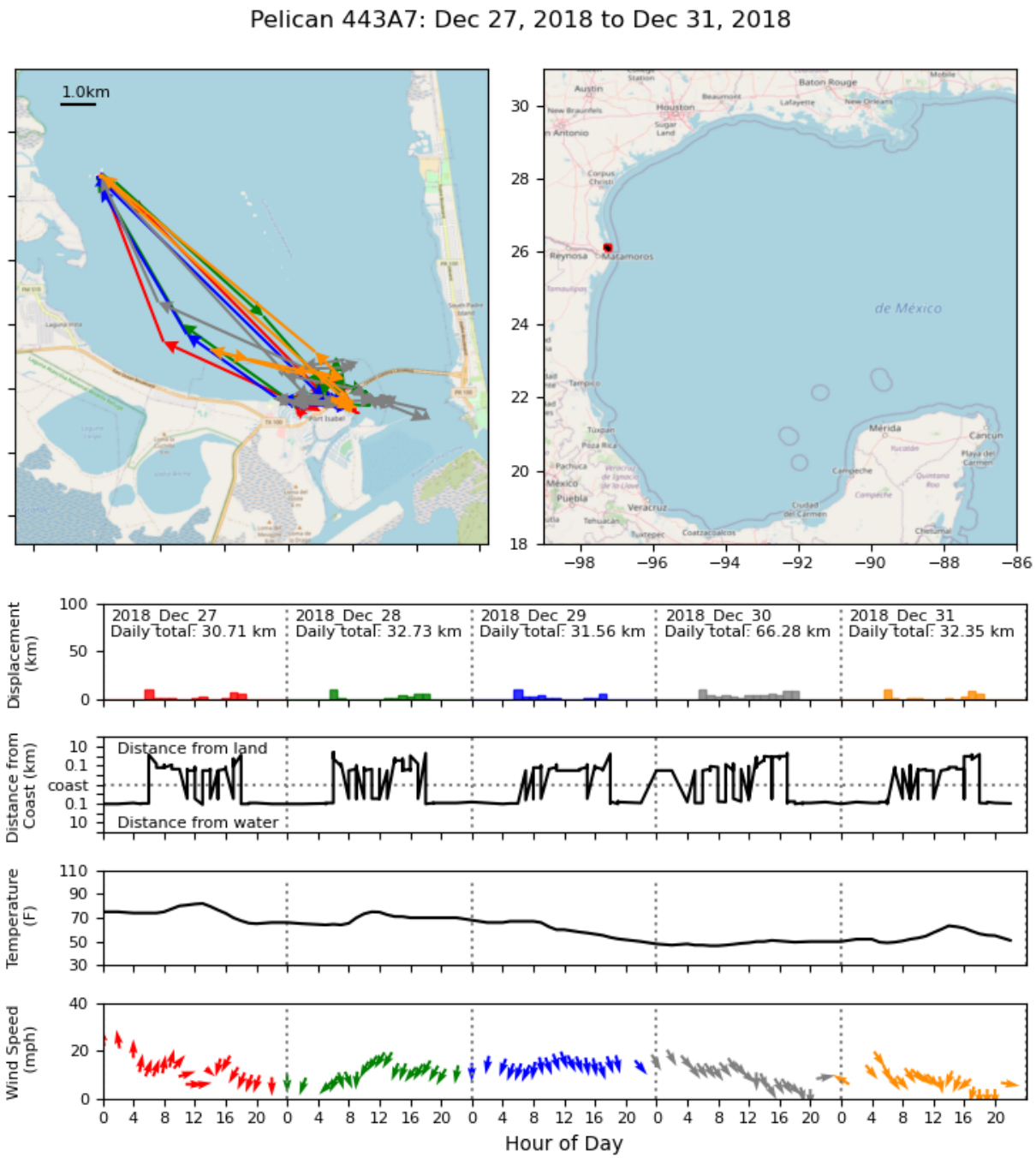

Figure 883 - Maps and graphs showing movements of 443A7 between 2018-12-27 and 2018-12-30 inclusive.

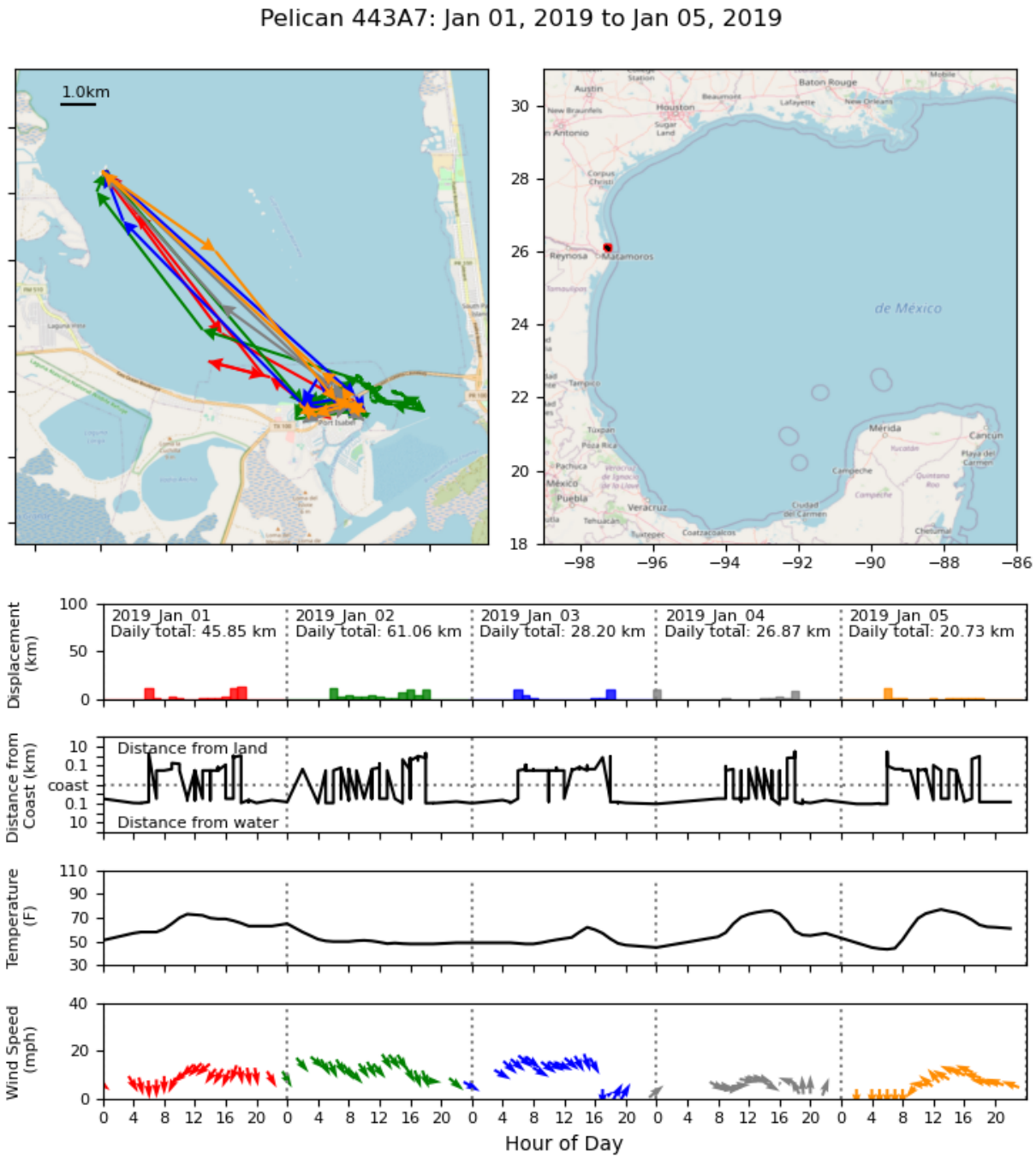

Figure 884 - Maps and graphs showing movements of 443A7 between 2019-01-01 and 2019-01-04 inclusive.

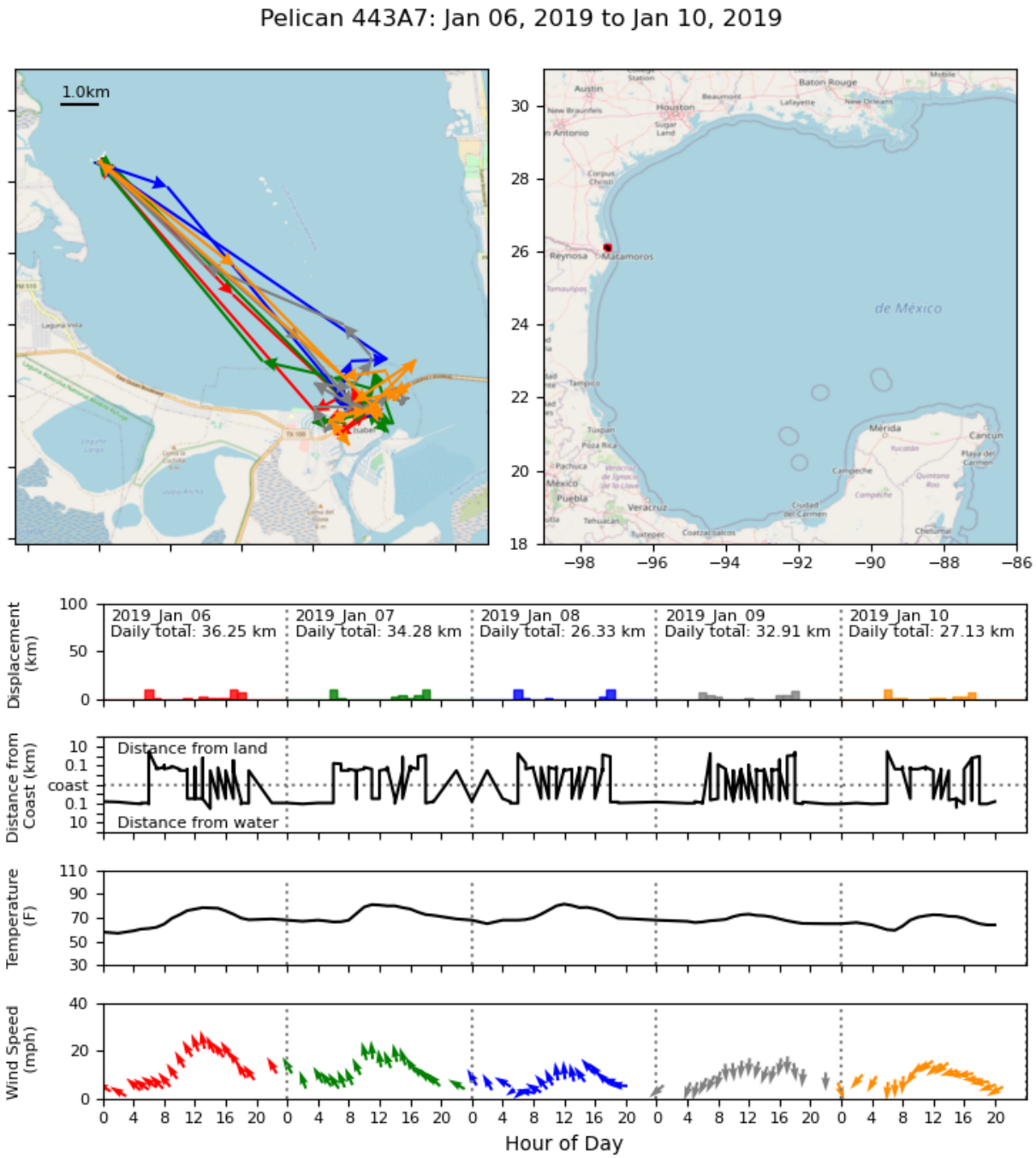

Figure 885 - Maps and graphs showing movements of 443A7 between 2019-01-06 and 2019-01-09 inclusive.

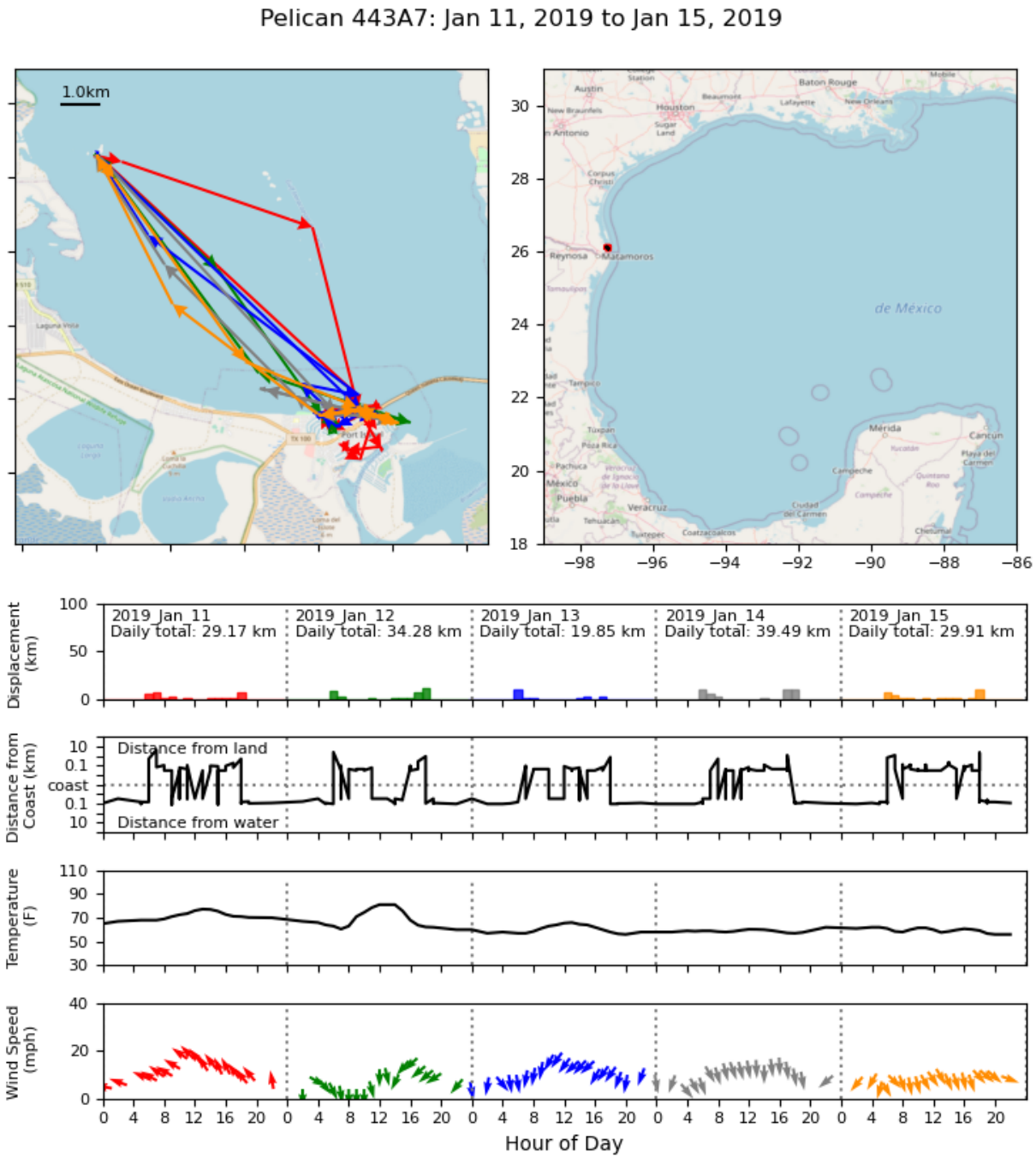

Figure 886 - Maps and graphs showing movements of 443A7 between 2019-01-11 and 2019-01-14 inclusive.

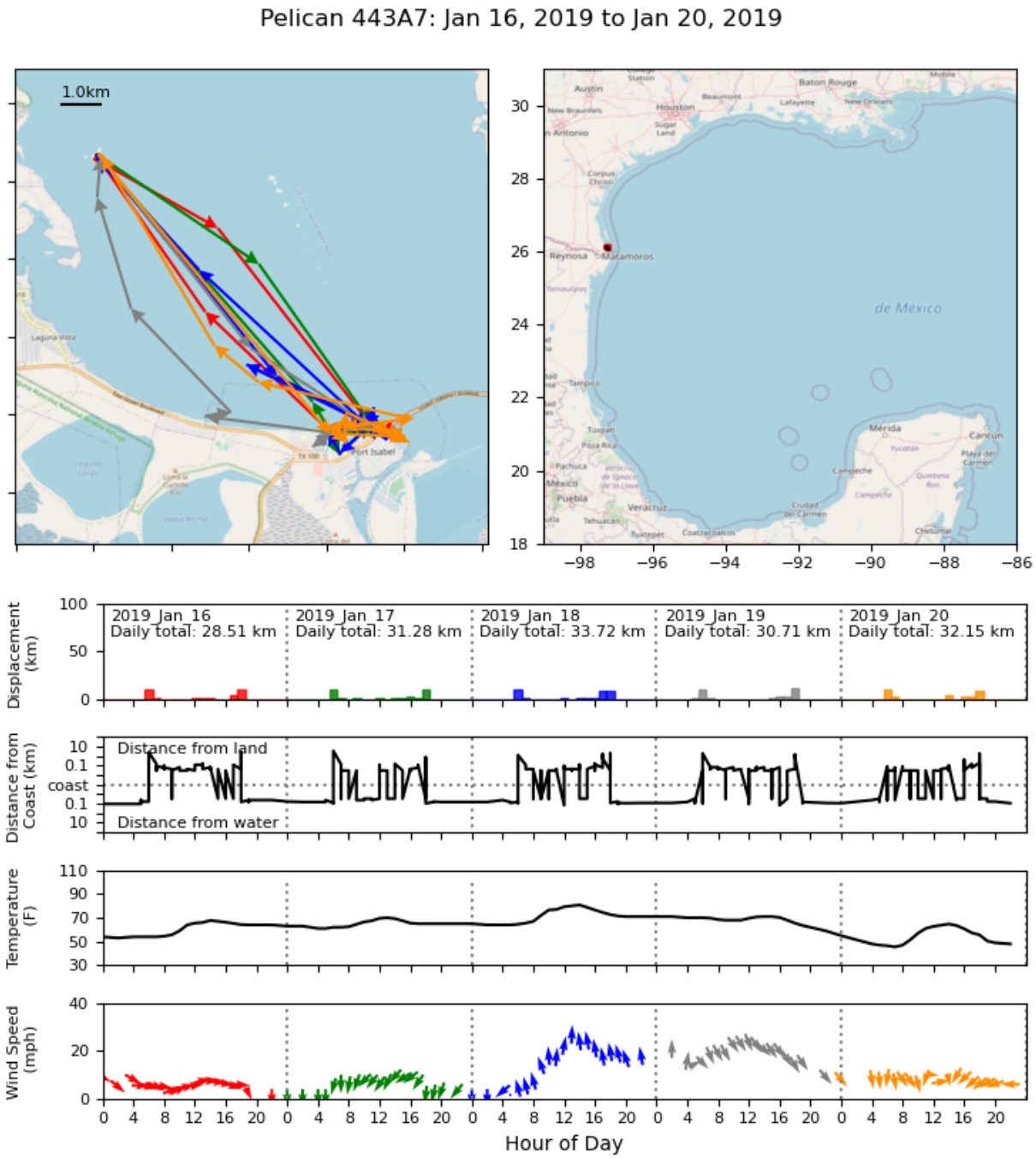

Figure 887 - Maps and graphs showing movements of 443A7 between 2019-01-16 and 2019-01-19 inclusive.

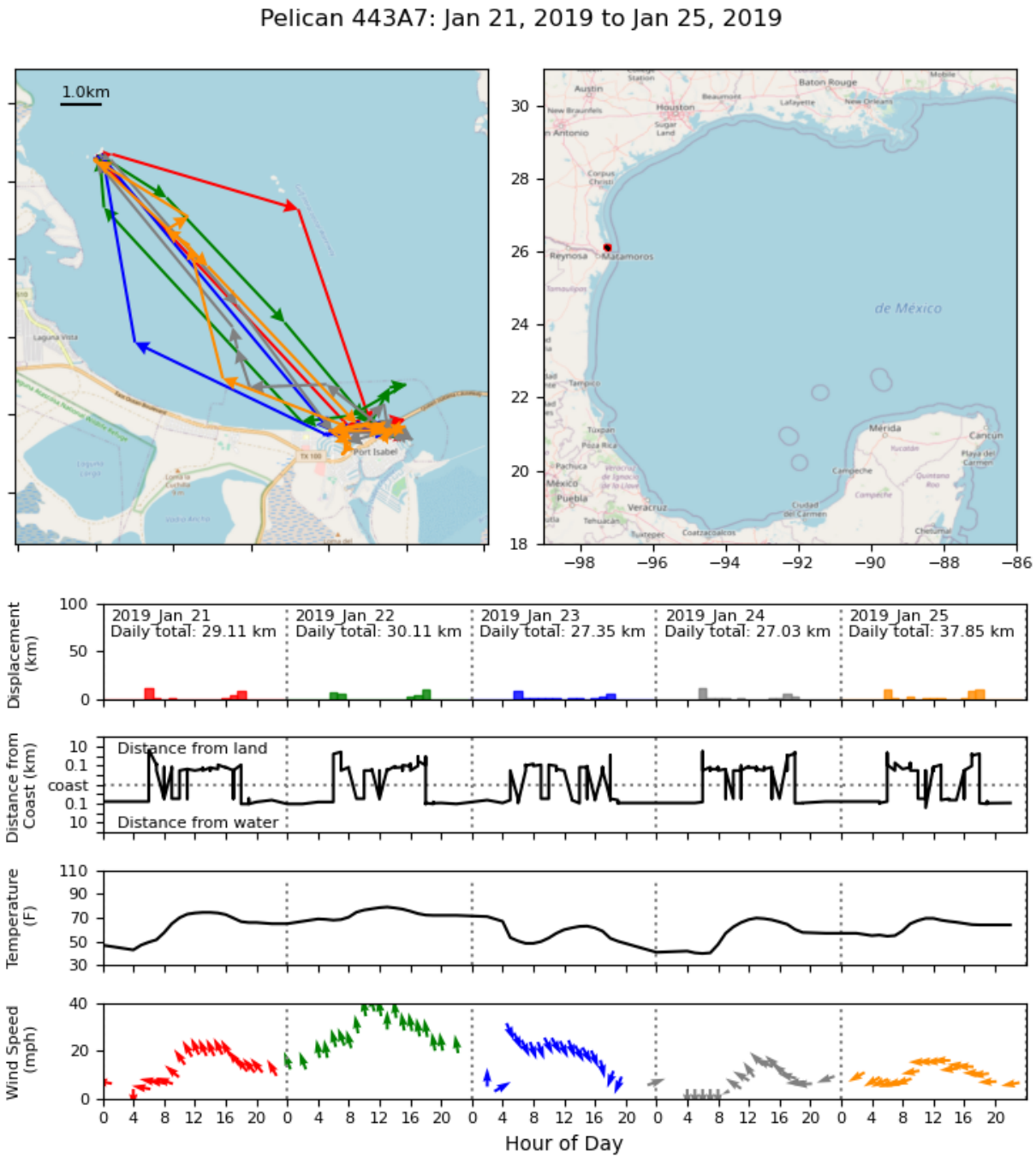

Figure 888 - Maps and graphs showing movements of 443A7 between 2019-01-21 and 2019-01-24 inclusive.

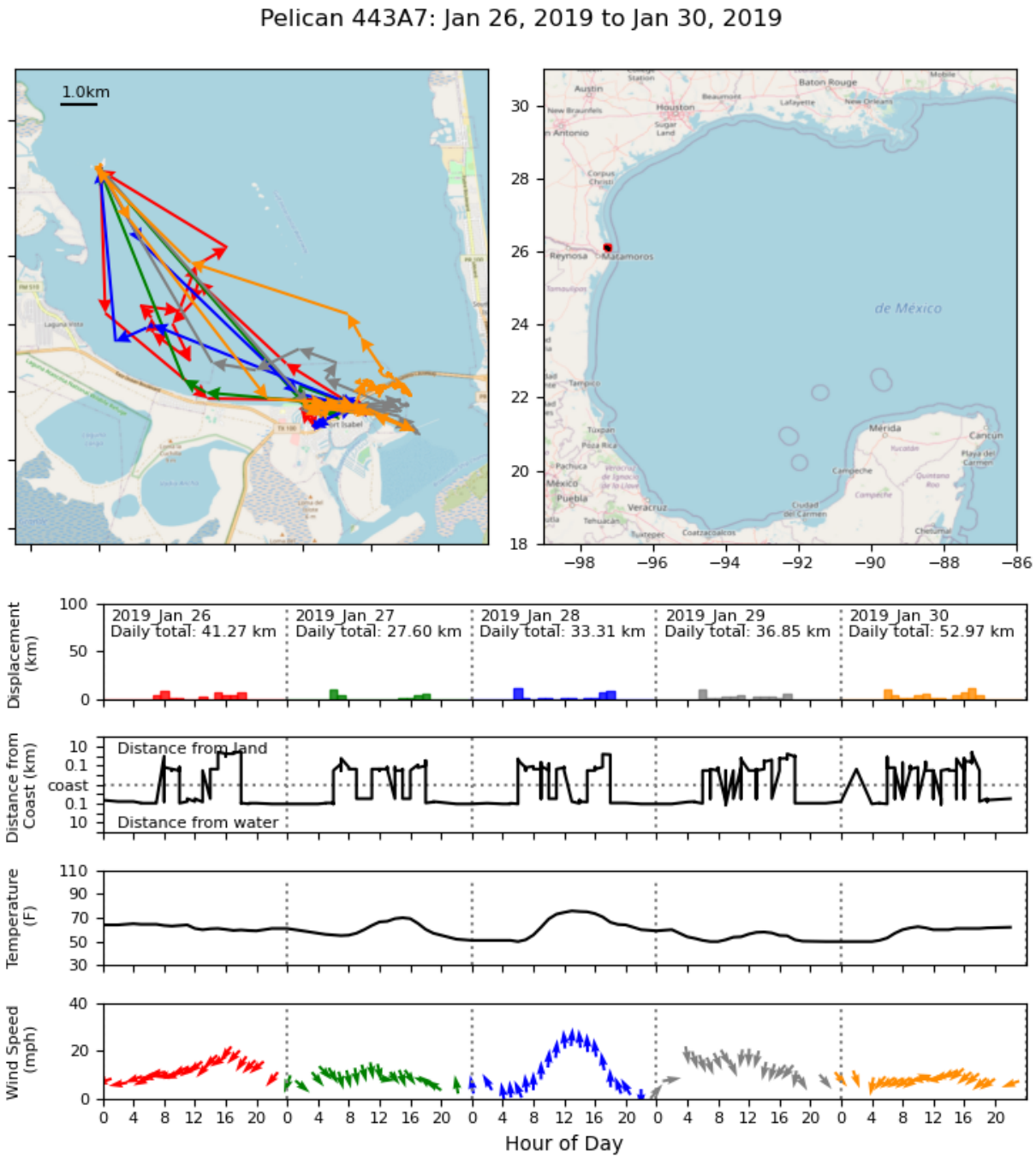

Figure 889 - Maps and graphs showing movements of 443A7 between 2019-01-26 and 2019-01-29 inclusive.

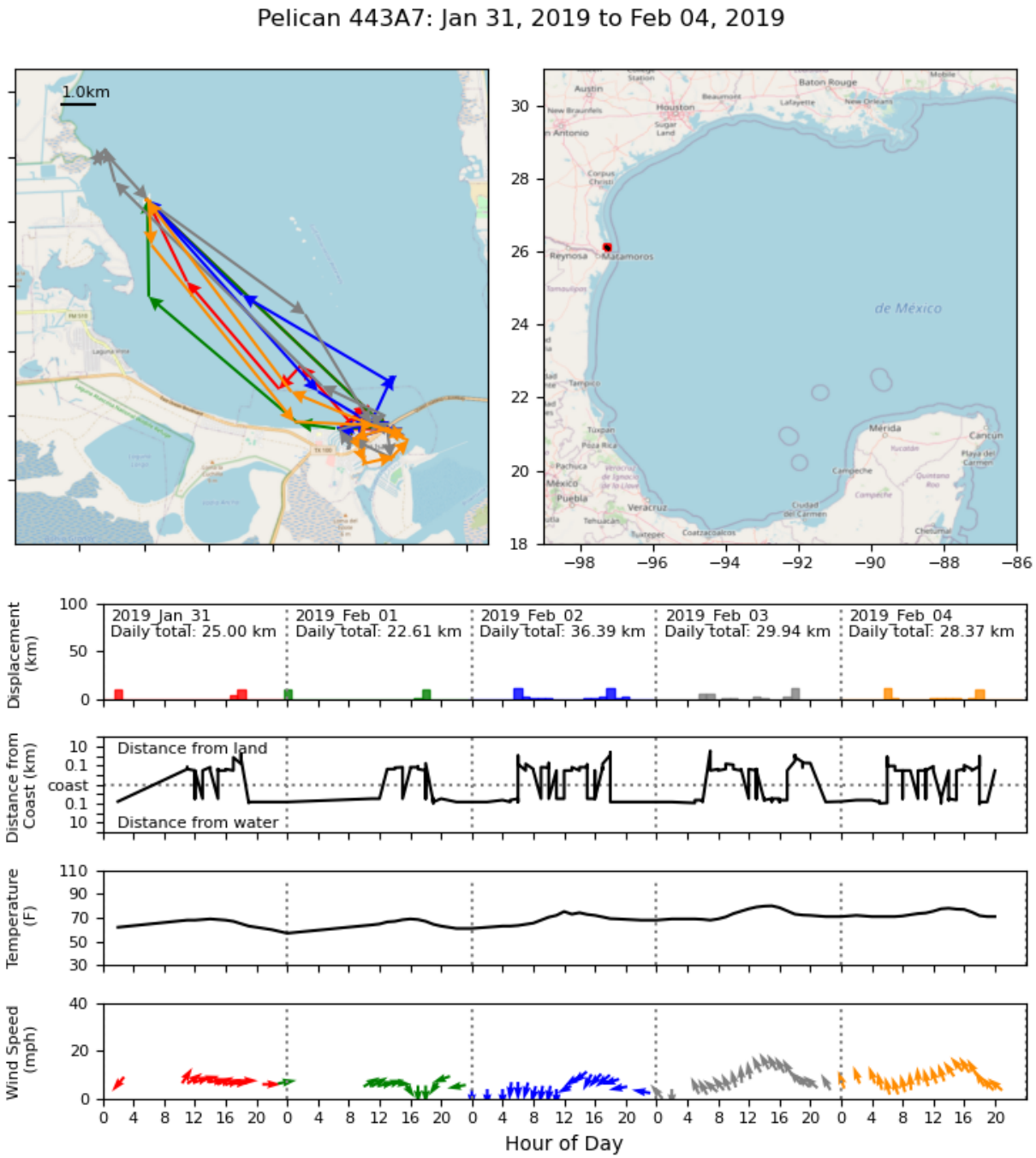

Figure 890 - Maps and graphs showing movements of 443A7 between 2019-01-31 and 2019-02-03 inclusive.

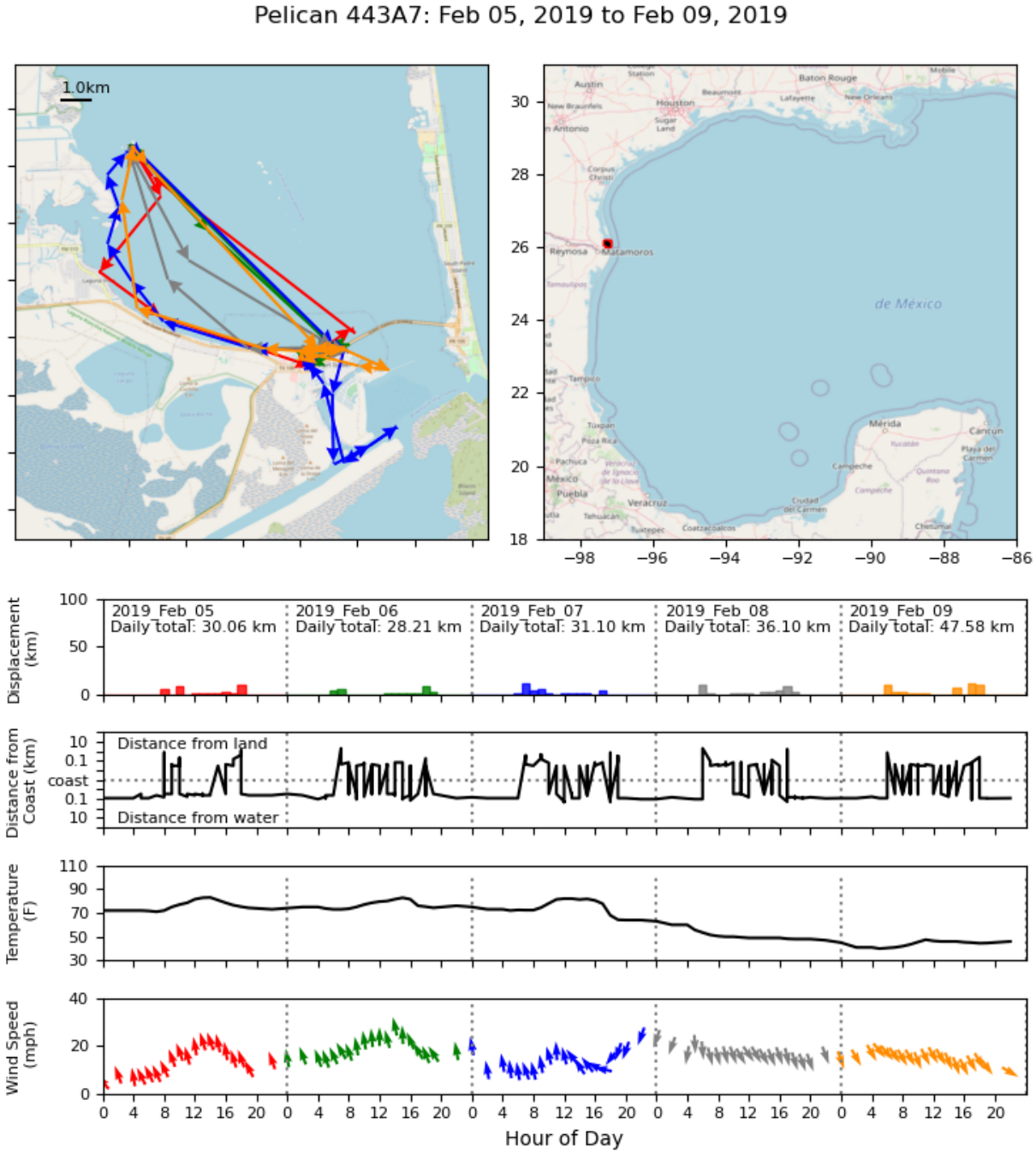

Figure 891 - Maps and graphs showing movements of 443A7 between 2019-02-05 and 2019-02-08 inclusive.

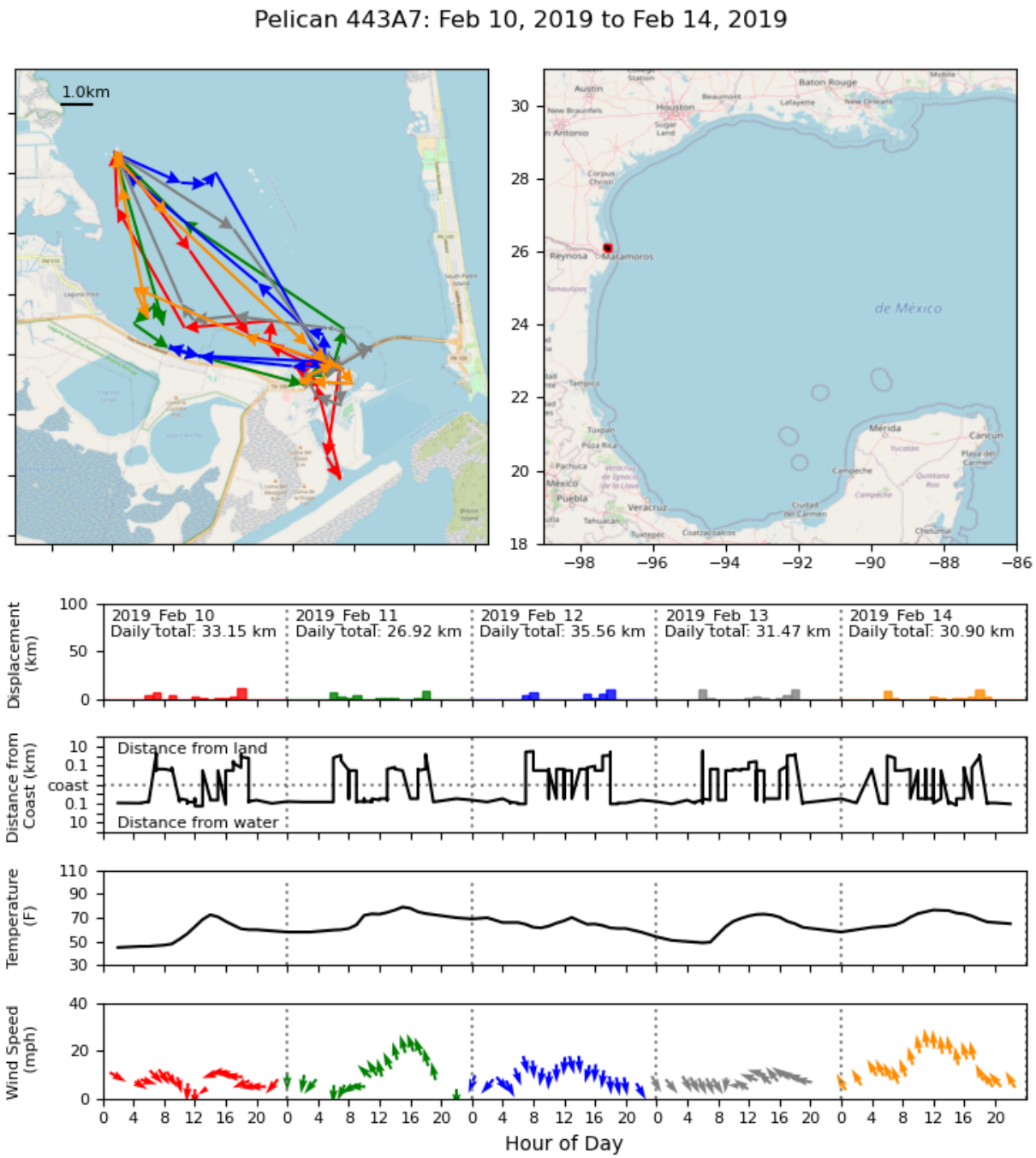

Figure 892 - Maps and graphs showing movements of 443A7 between 2019-02-10 and 2019-02-13 inclusive.

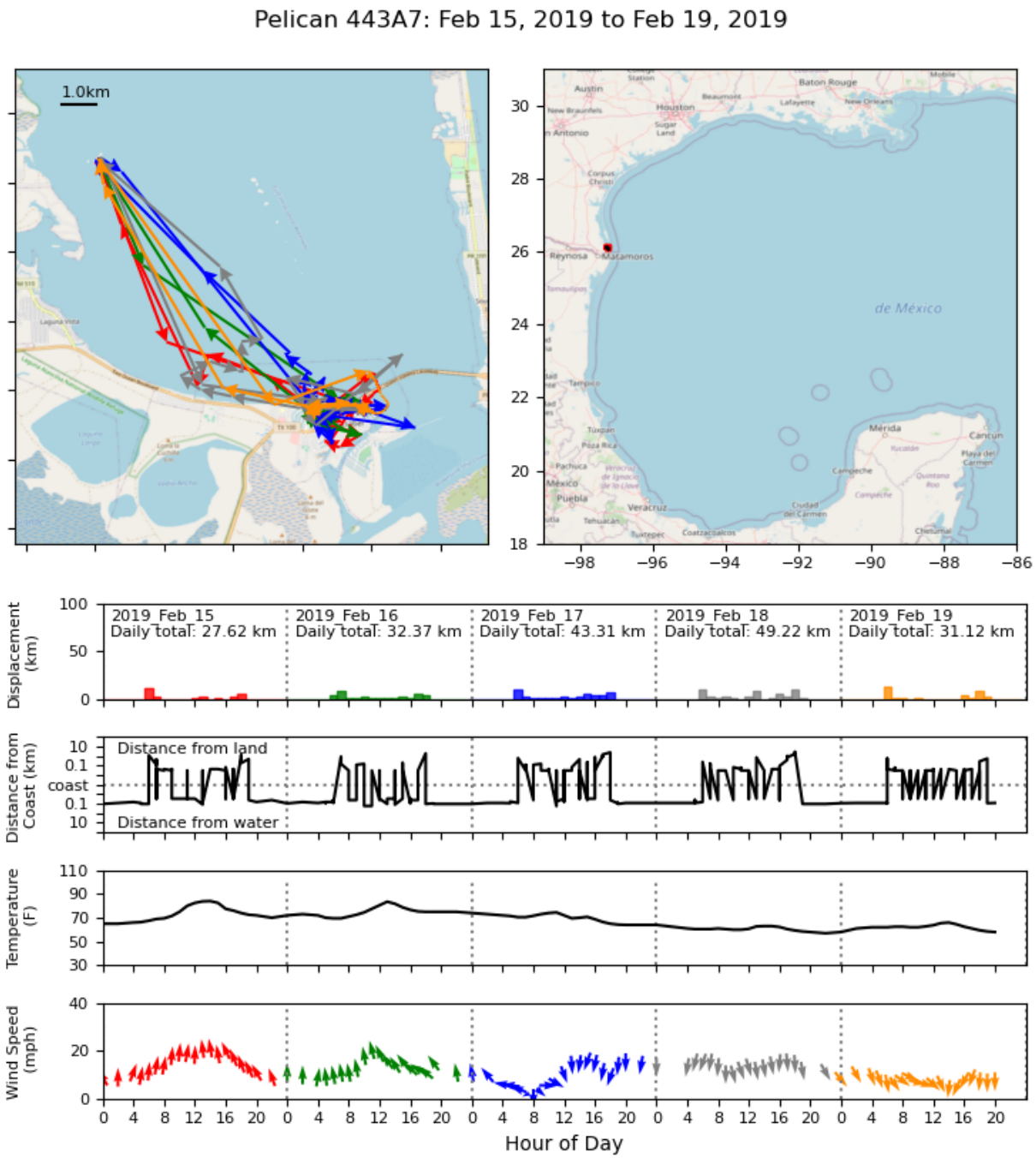

Figure 893 - Maps and graphs showing movements of 443A7 between 2019-02-15 and 2019-02-18 inclusive.

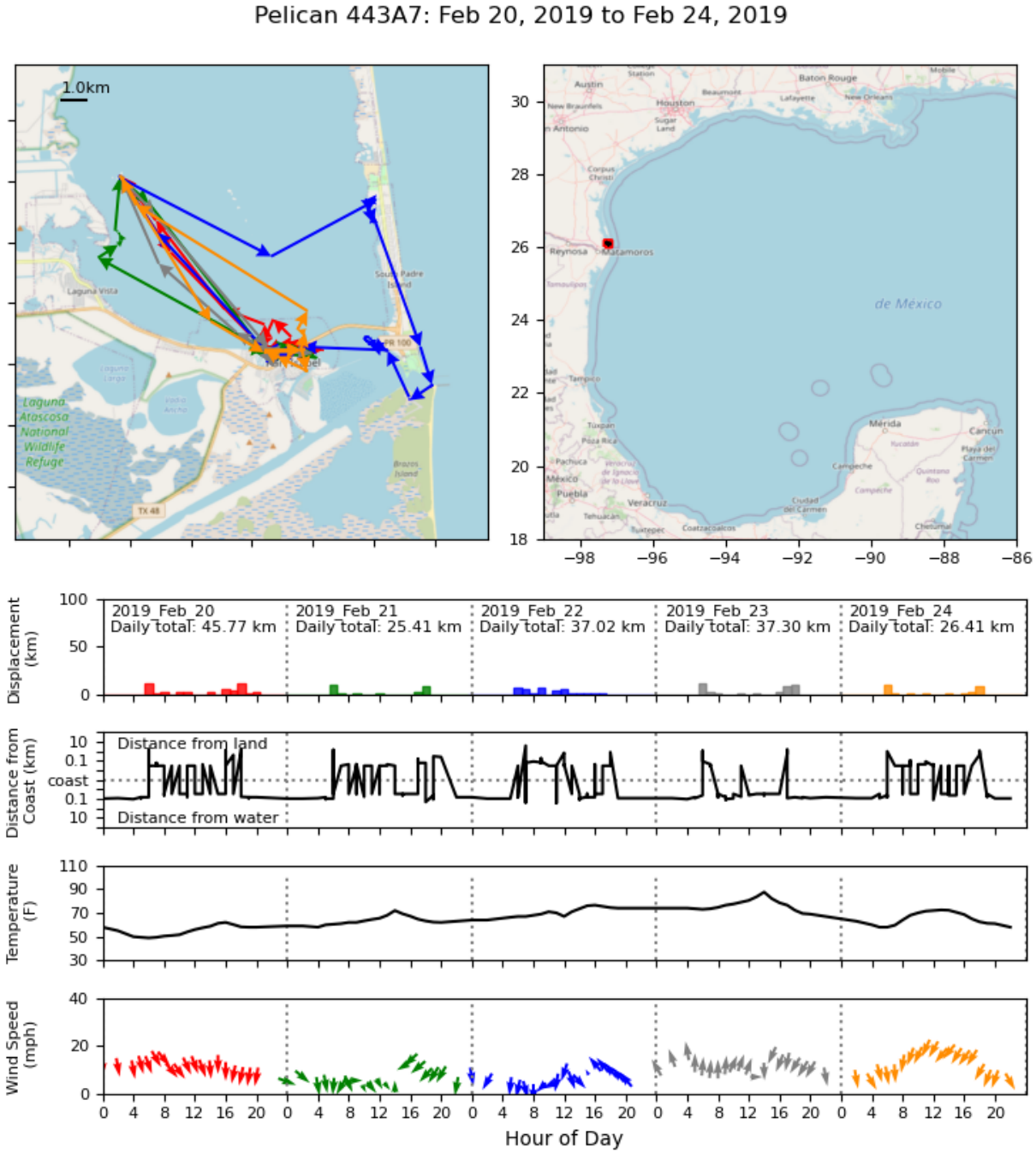

Figure 894 - Maps and graphs showing movements of 443A7 between 2019-02-20 and 2019-02-23 inclusive.

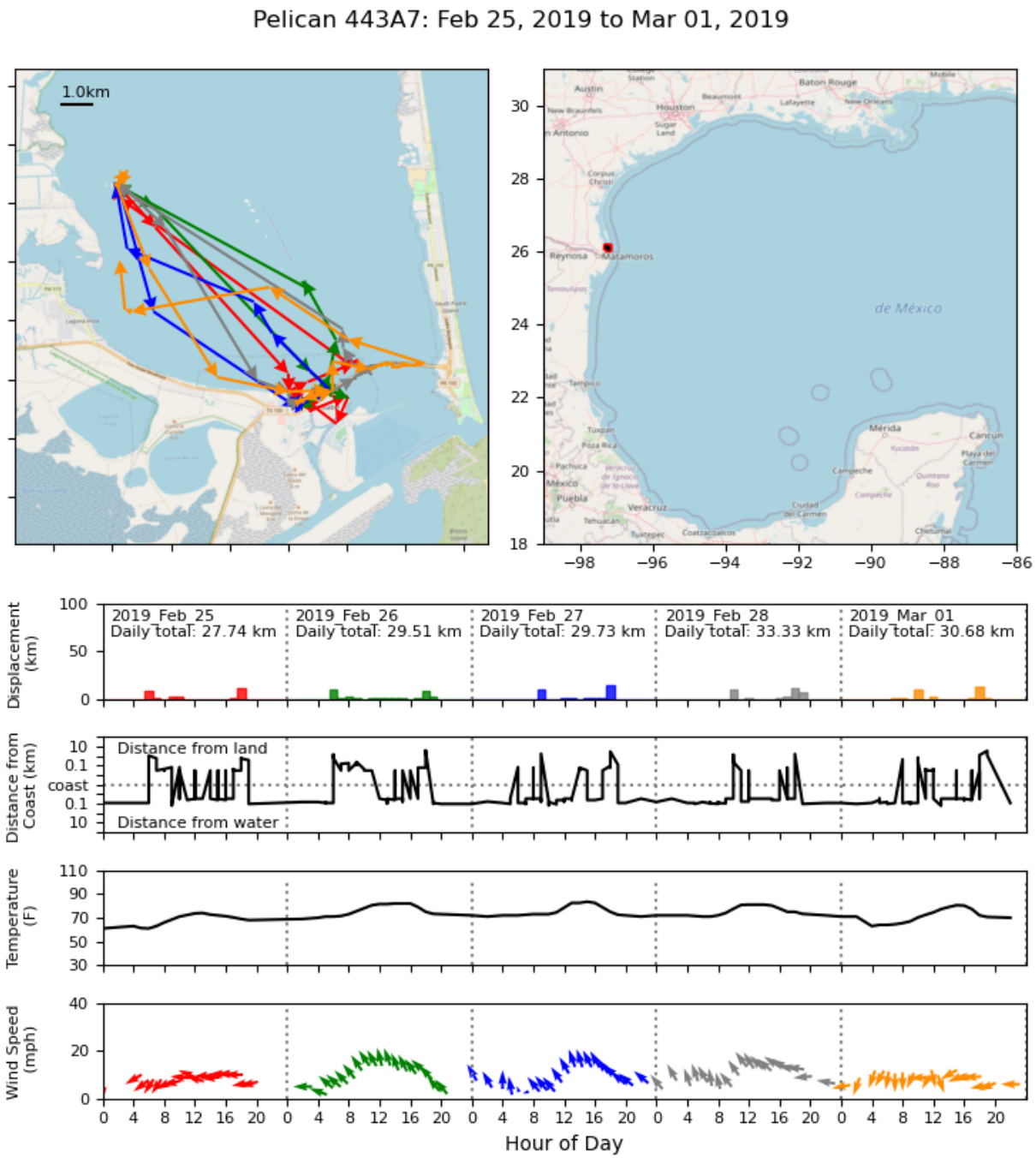

Figure 895 - Maps and graphs showing movements of 443A7 between 2019-02-25 and 2019-02-28 inclusive.

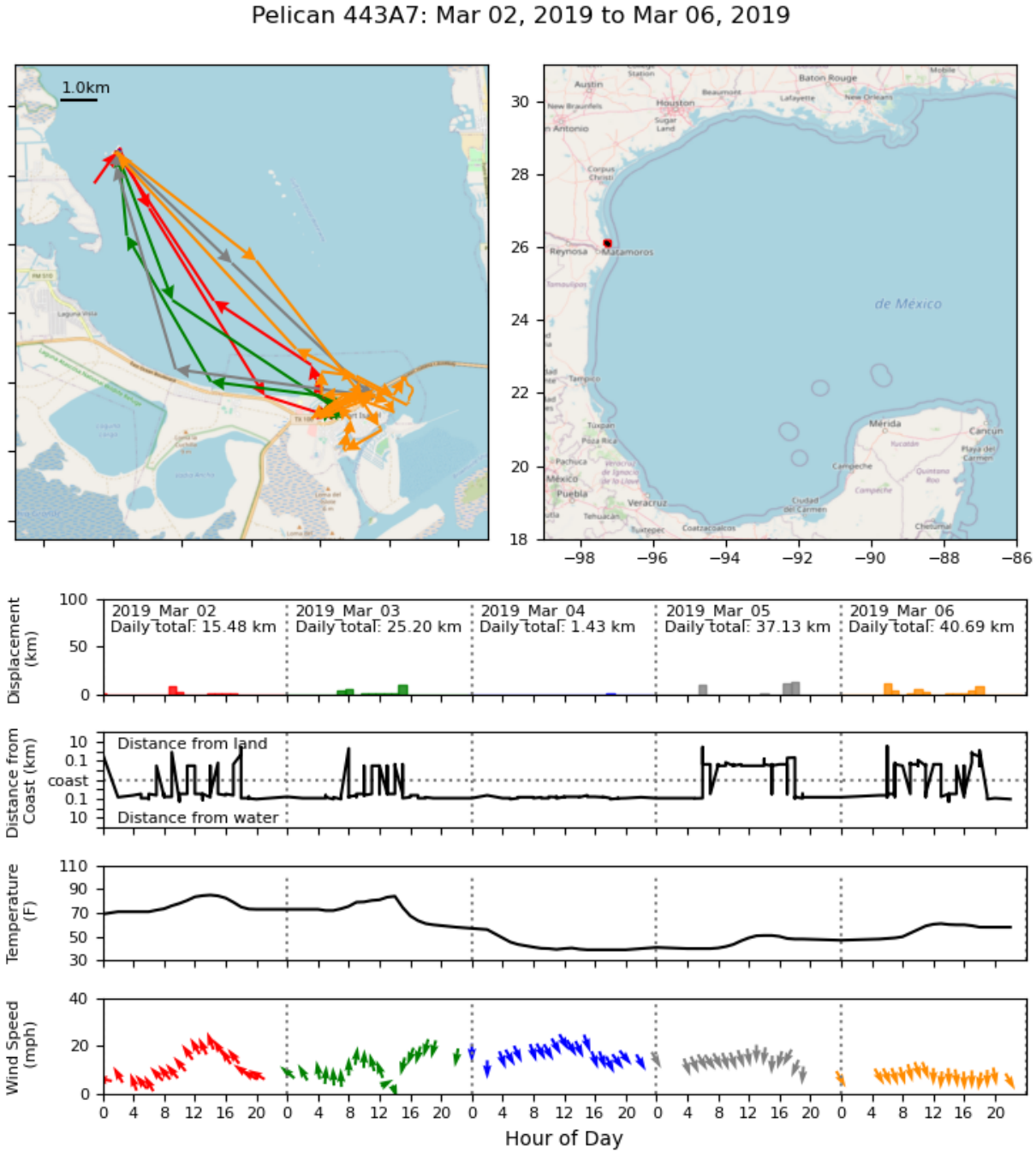

Figure 896 - Maps and graphs showing movements of 443A7 between 2019-03-02 and 2019-03-05 inclusive.

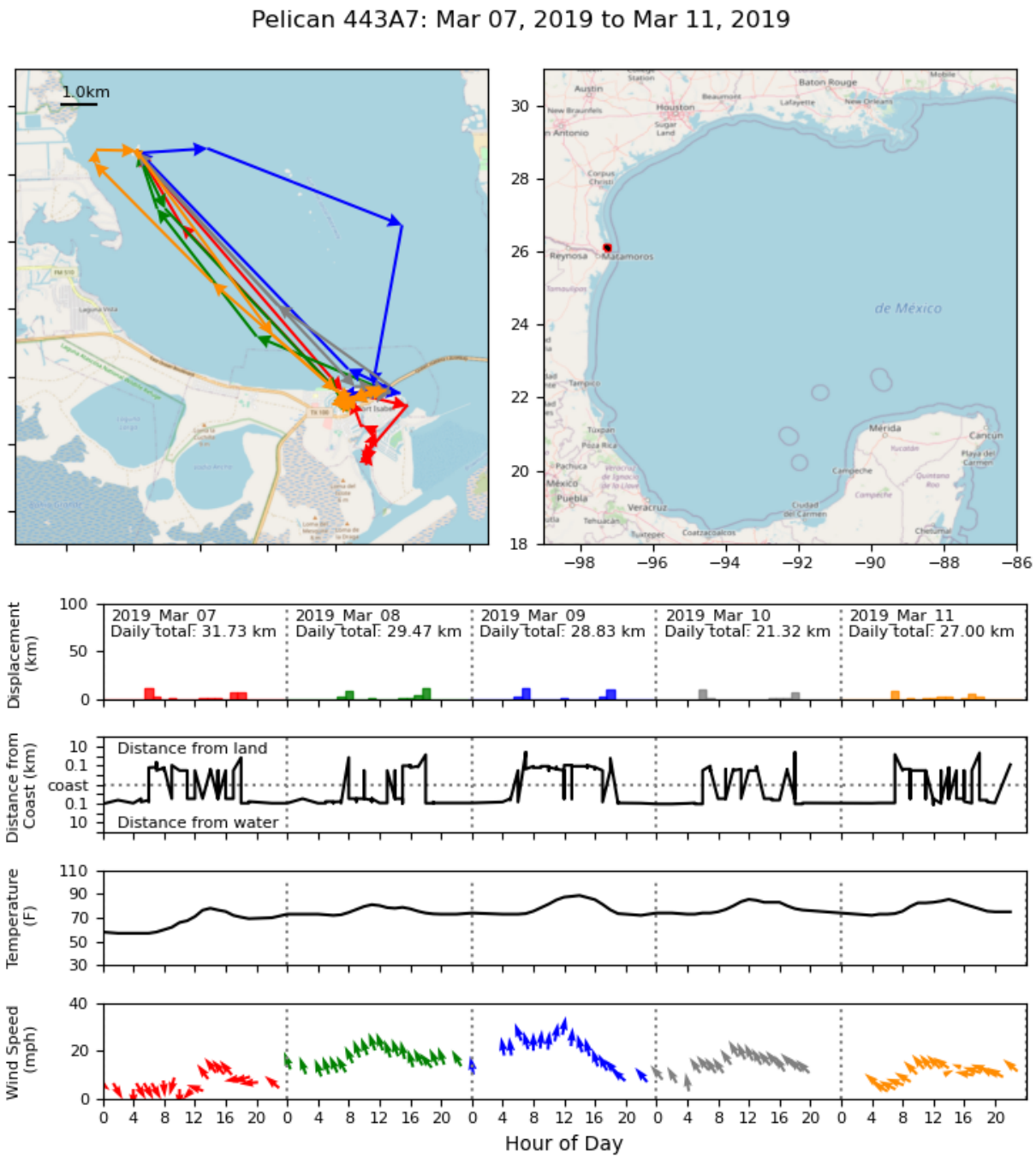

Figure 897 - Maps and graphs showing movements of 443A7 between 2019-03-07 and 2019-03-10 inclusive.

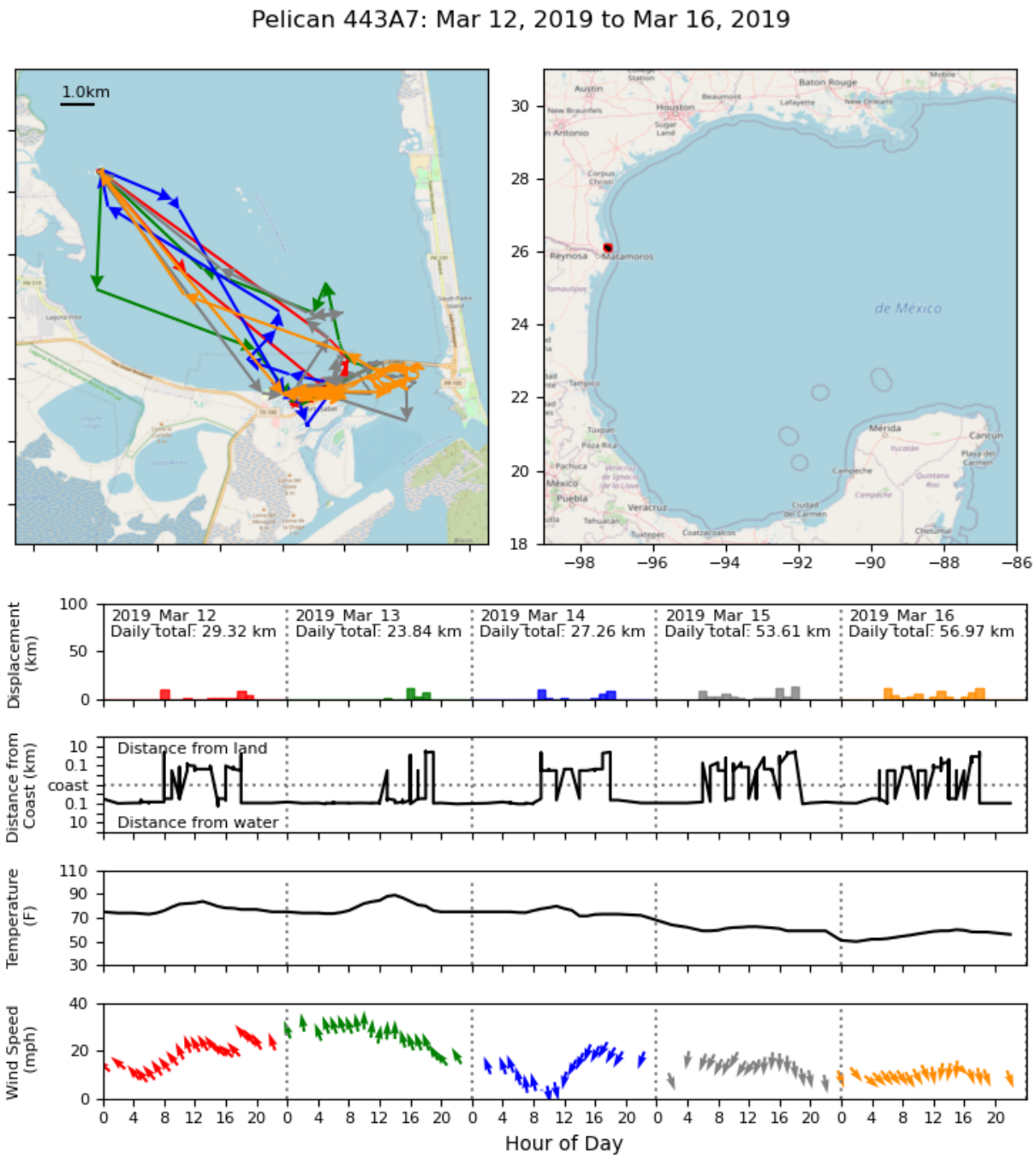

Figure 898 - Maps and graphs showing movements of 443A7 between 2019-03-12 and 2019-03-15 inclusive.

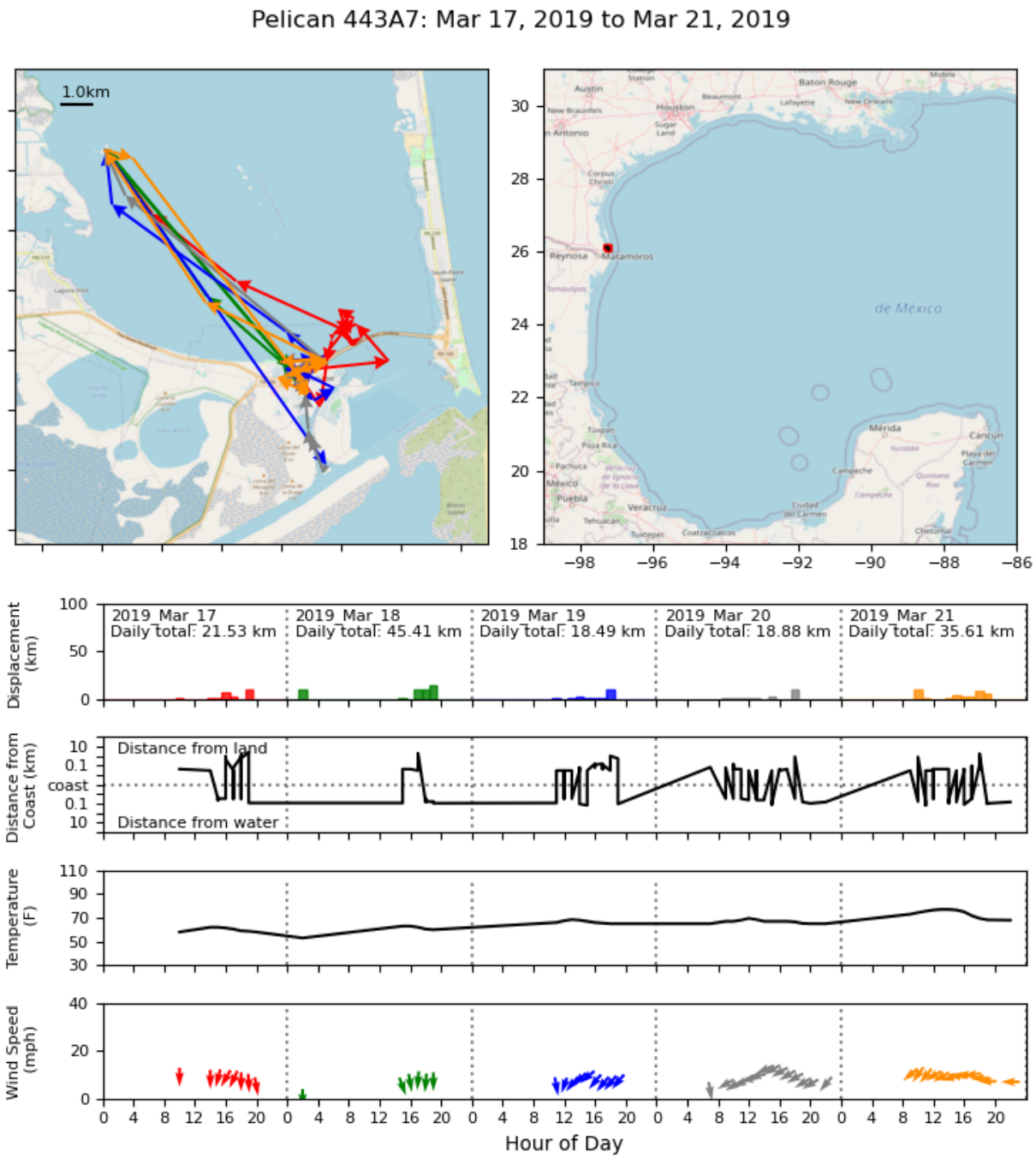

Figure 899 - Maps and graphs showing movements of 443A7 between 2019-03-17 and 2019-03-20 inclusive.

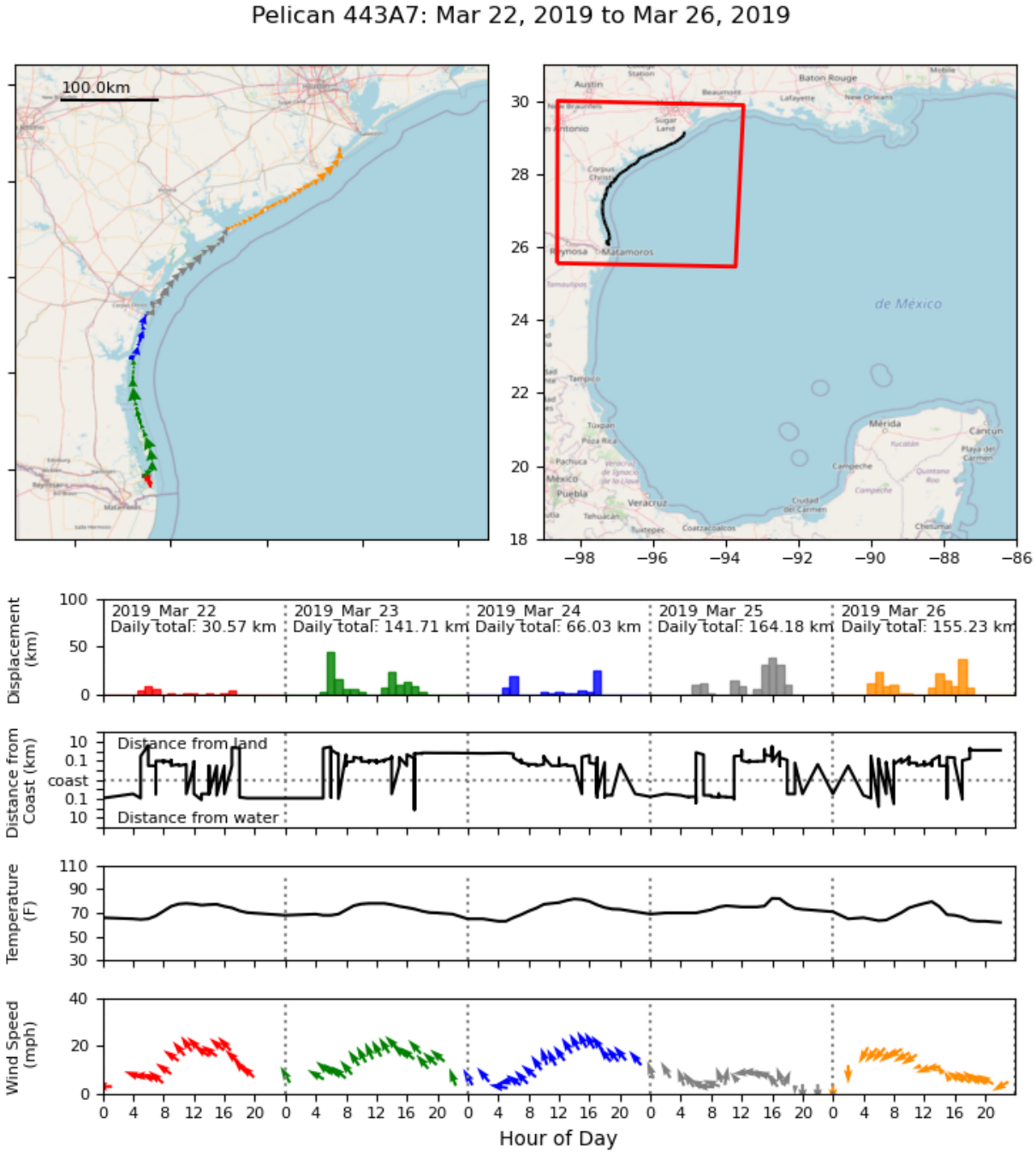

Figure 900 - Maps and graphs showing movements of 443A7 between 2019-03-22 and 2019-03-25 inclusive.

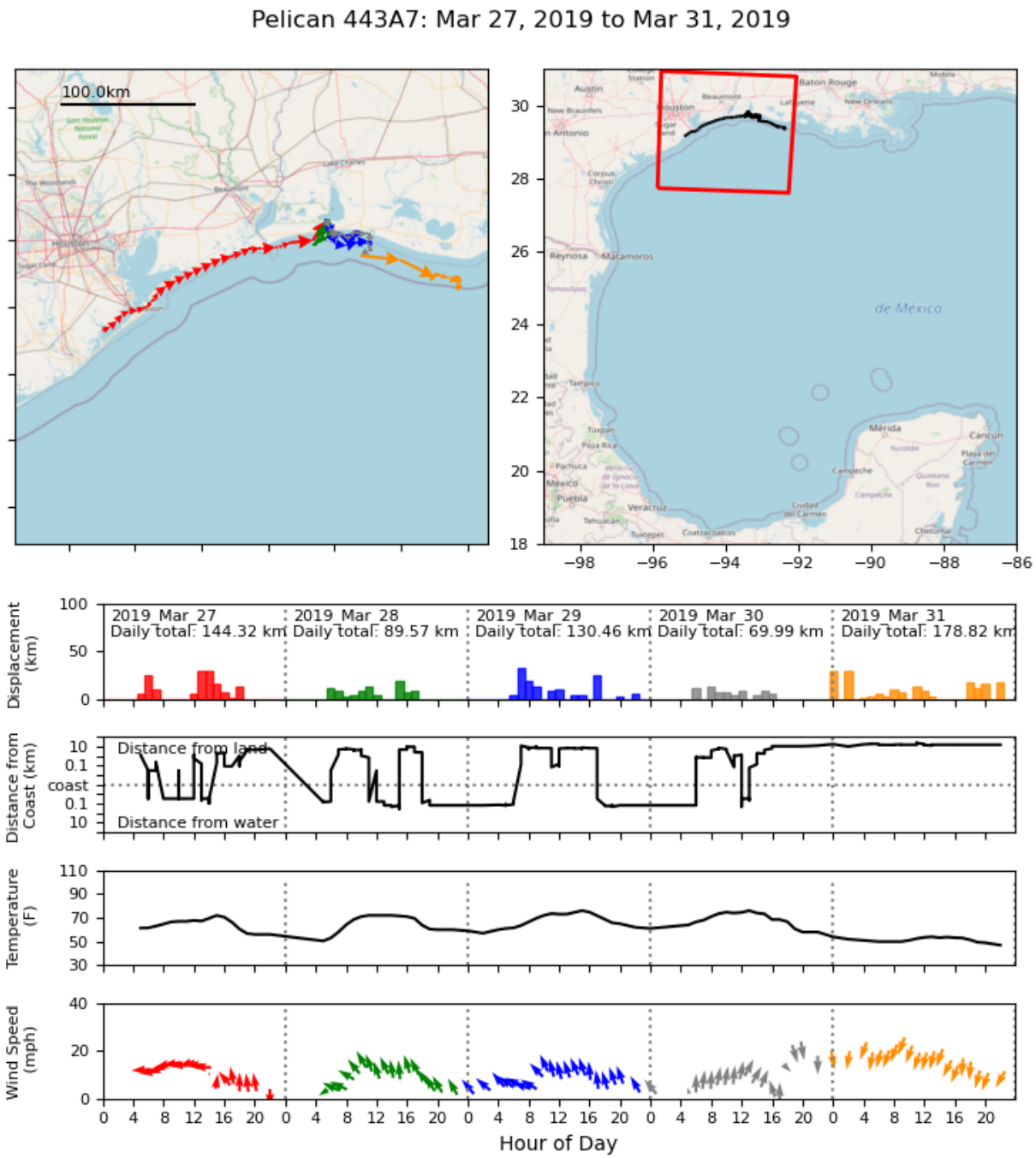

Figure 901 - Maps and graphs showing movements of 443A7 between 2019-03-27 and 2019-03-30 inclusive.

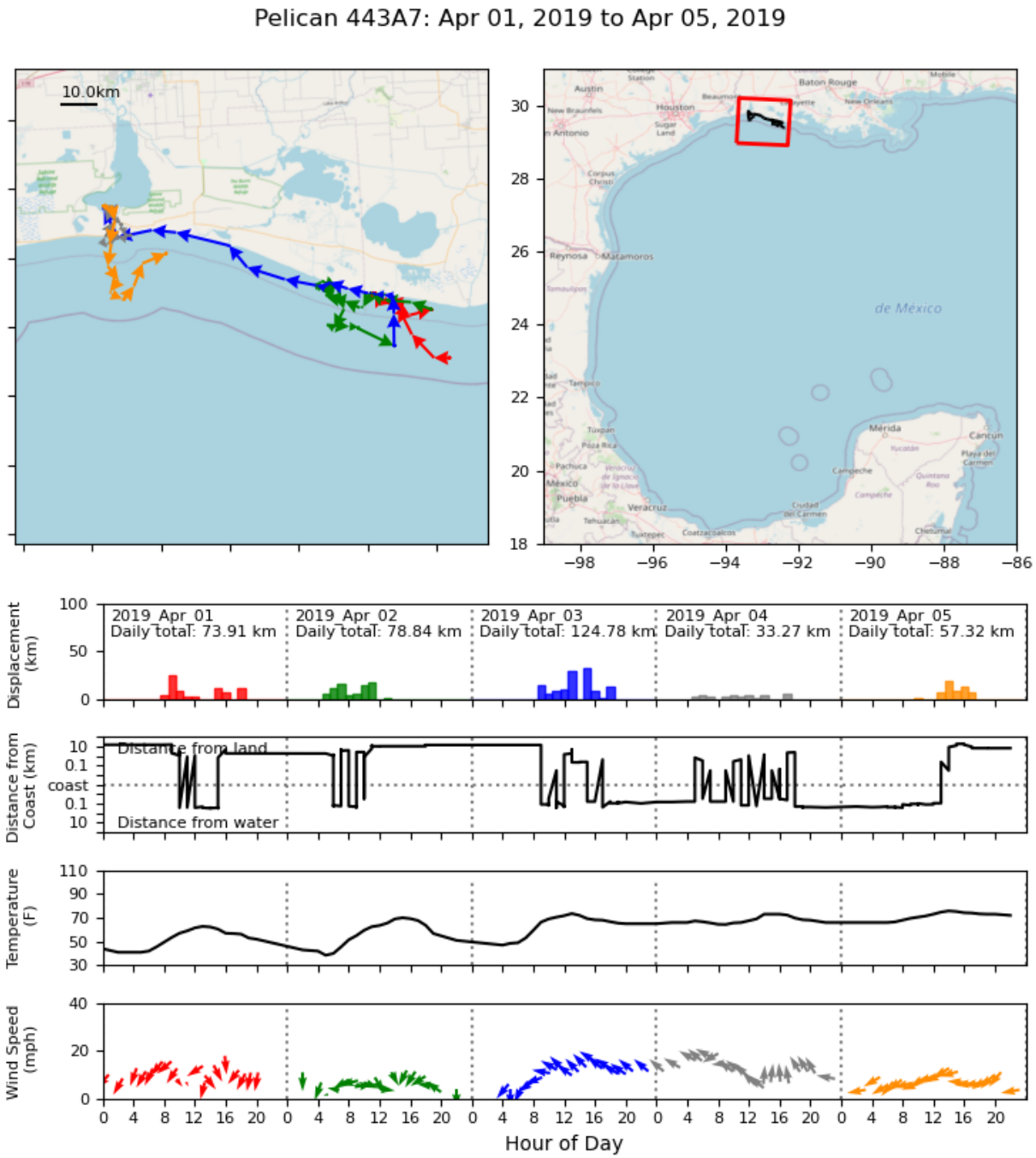

Figure 902 - Maps and graphs showing movements of 443A7 between 2019-04-01 and 2019-04-04 inclusive.

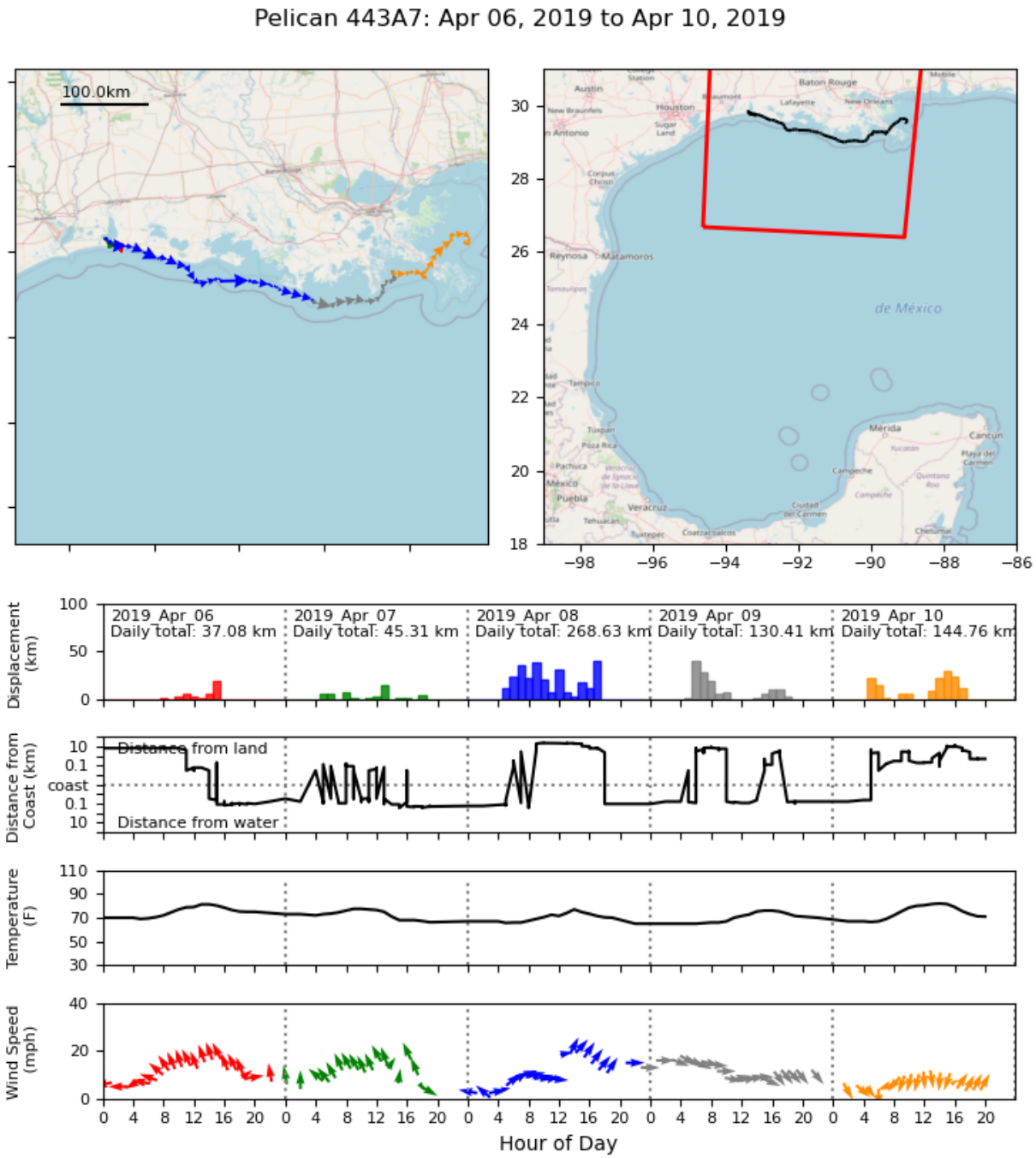

Figure 903 - Maps and graphs showing movements of 443A7 between 2019-04-06 and 2019-04-09 inclusive.

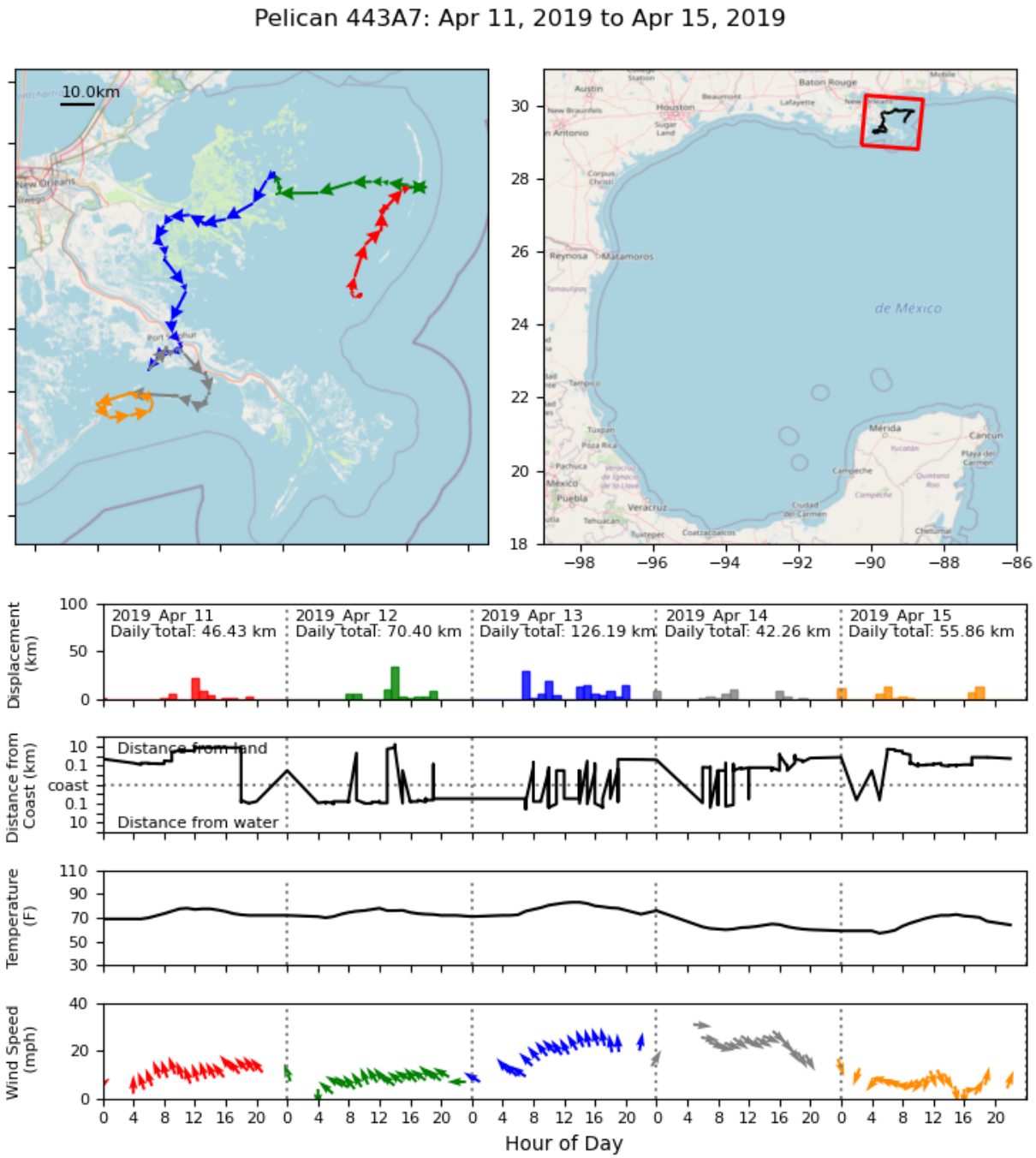

Figure 904 - Maps and graphs showing movements of 443A7 between 2019-04-11 and 2019-04-14 inclusive.

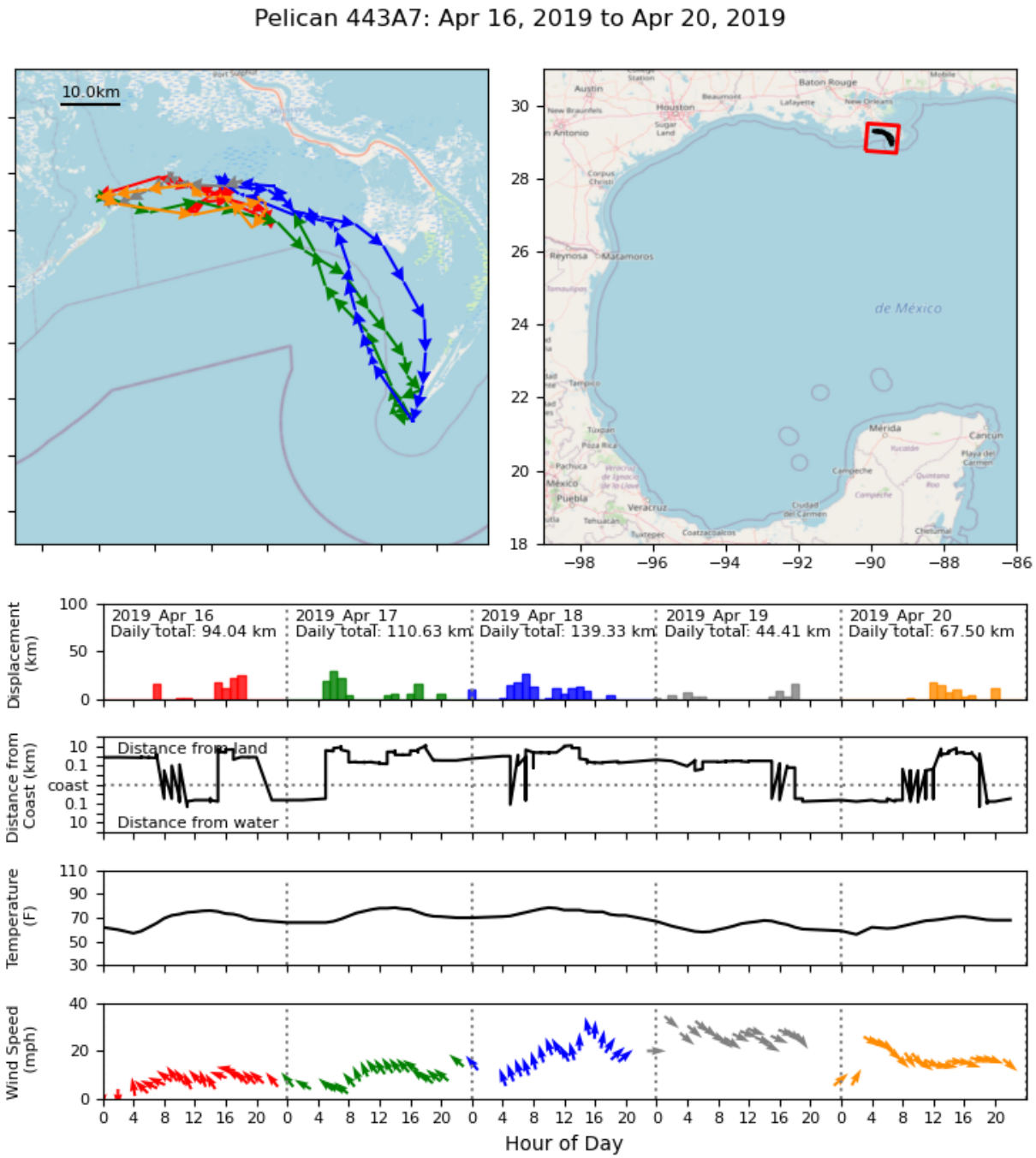

Figure 905 - Maps and graphs showing movements of 443A7 between 2019-04-16 and 2019-04-19 inclusive.

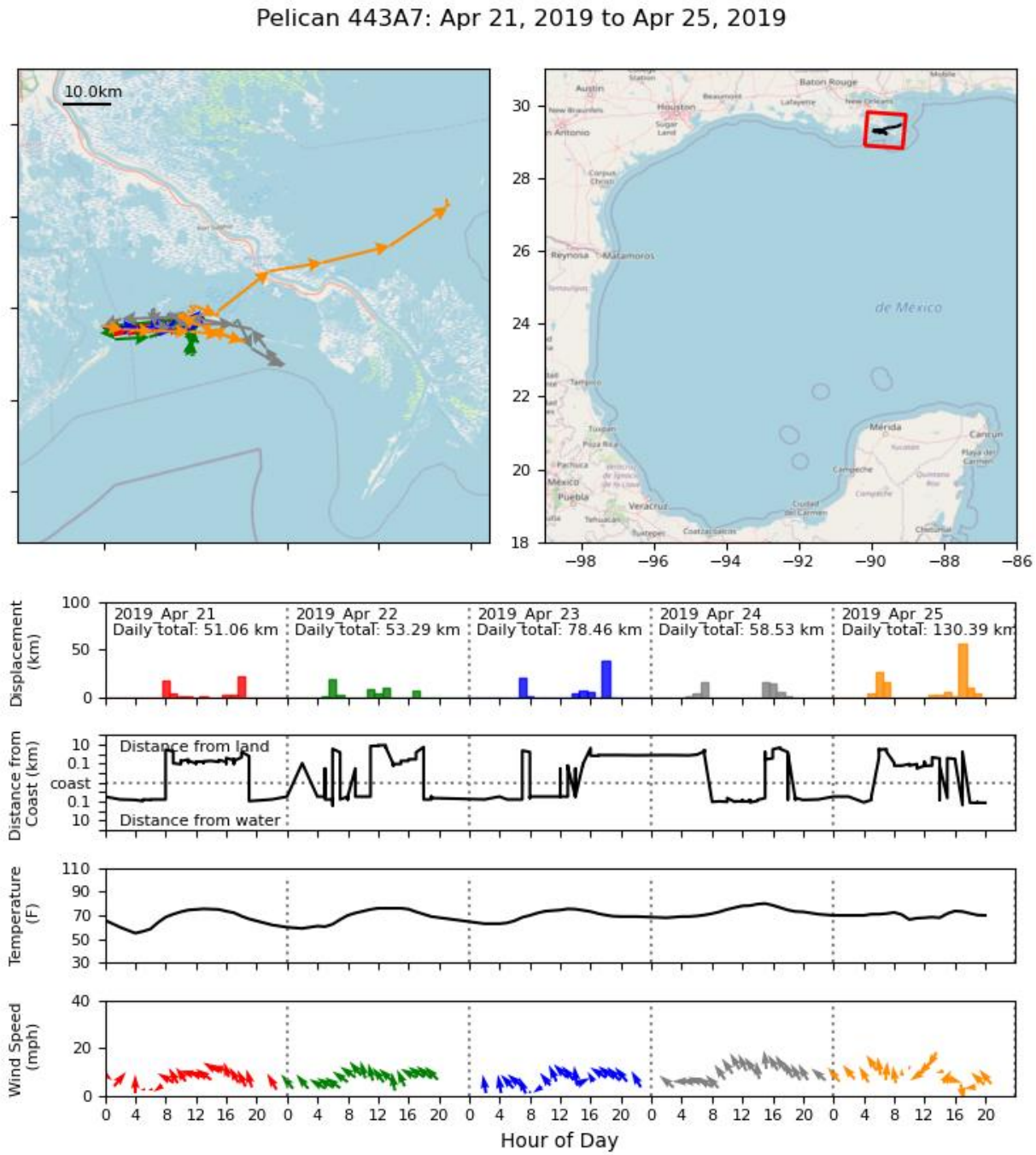

Figure 906 - Maps and graphs showing movements of 443A7 between 2019-04-21 and 2019-04-24 inclusive.

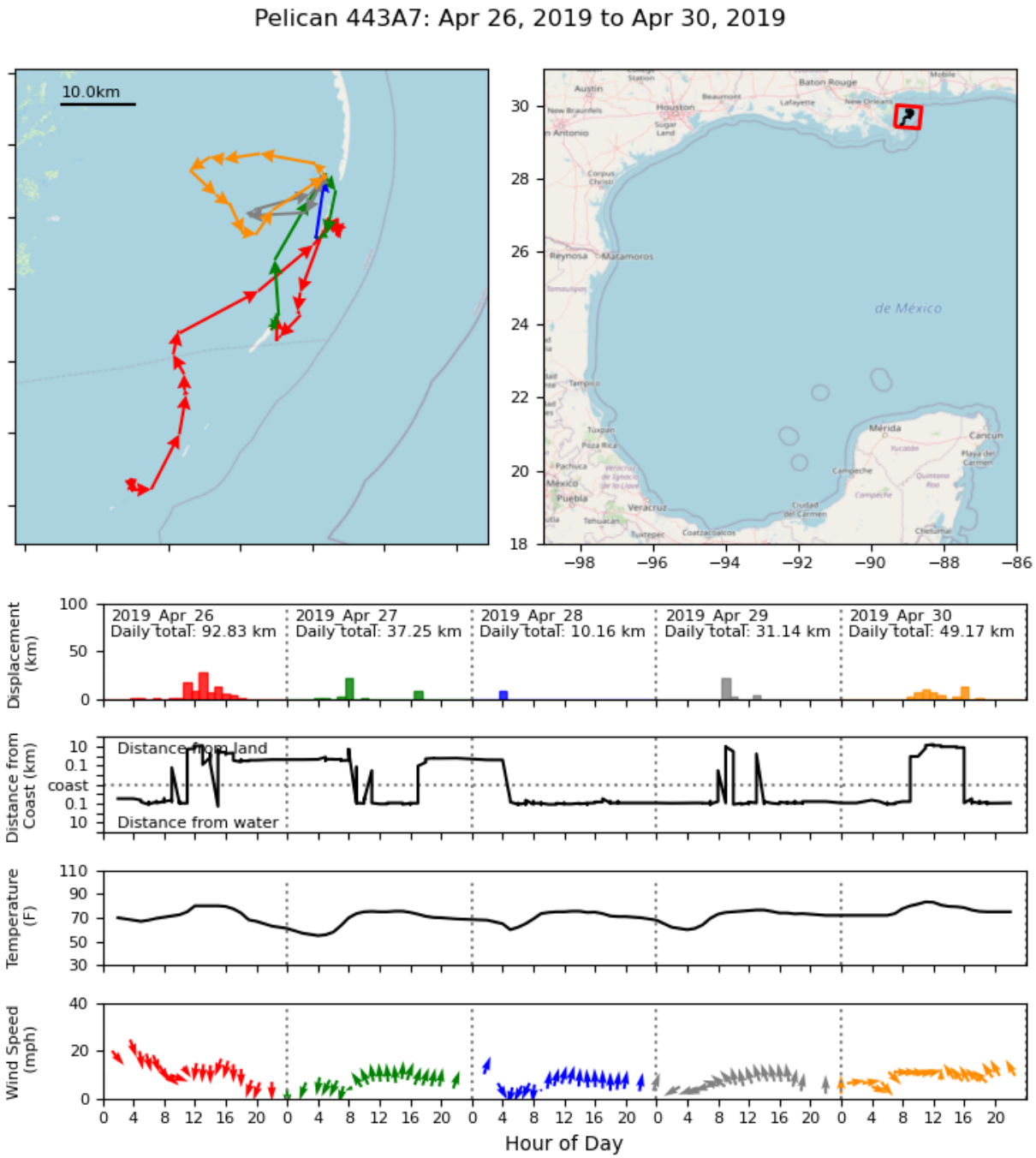

Figure 907 - Maps and graphs showing movements of 443A7 between 2019-04-26 and 2019-04-29 inclusive.

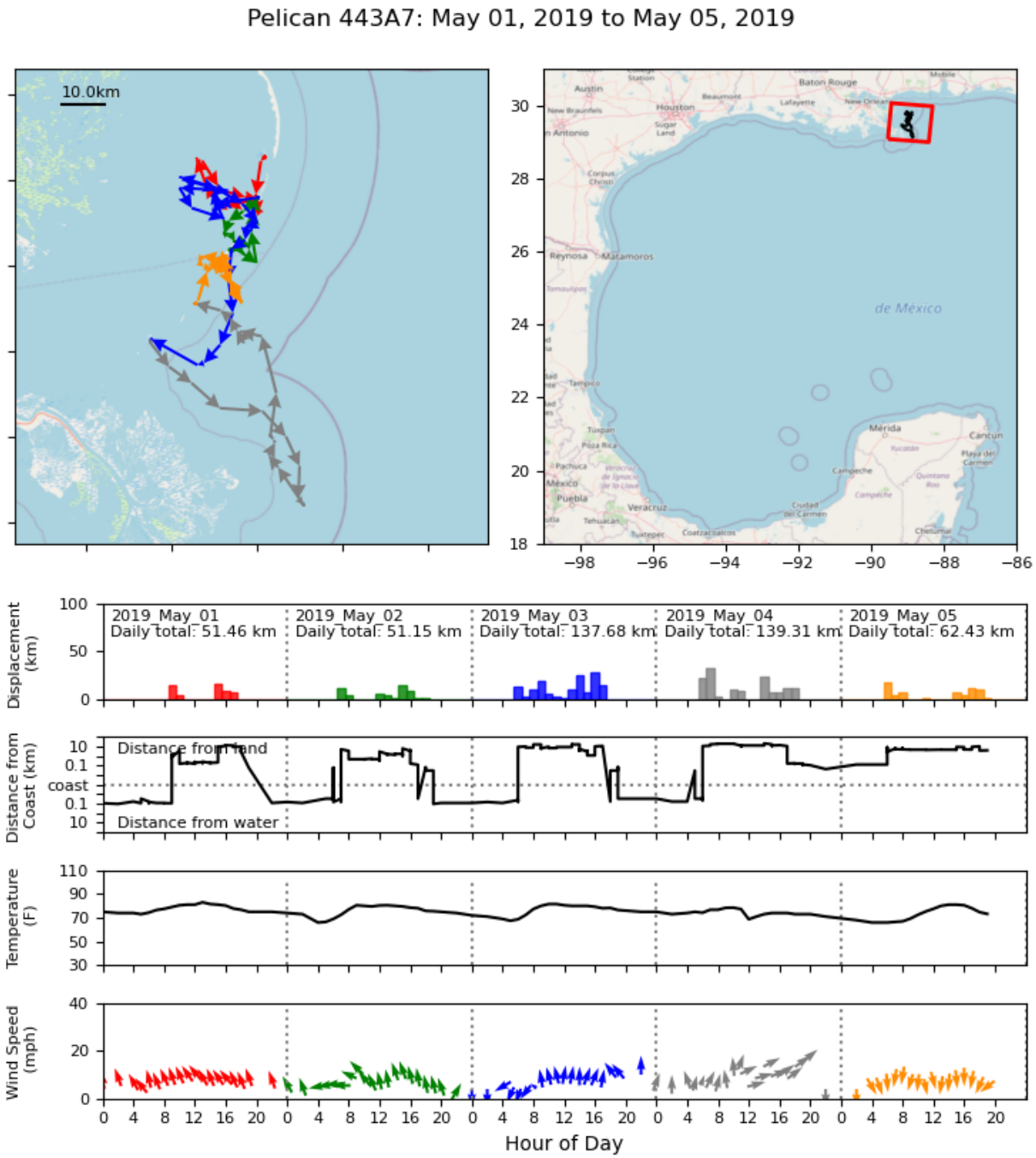

Figure 908 - Maps and graphs showing movements of 443A7 between 2019-05-01 and 2019-05-04 inclusive.

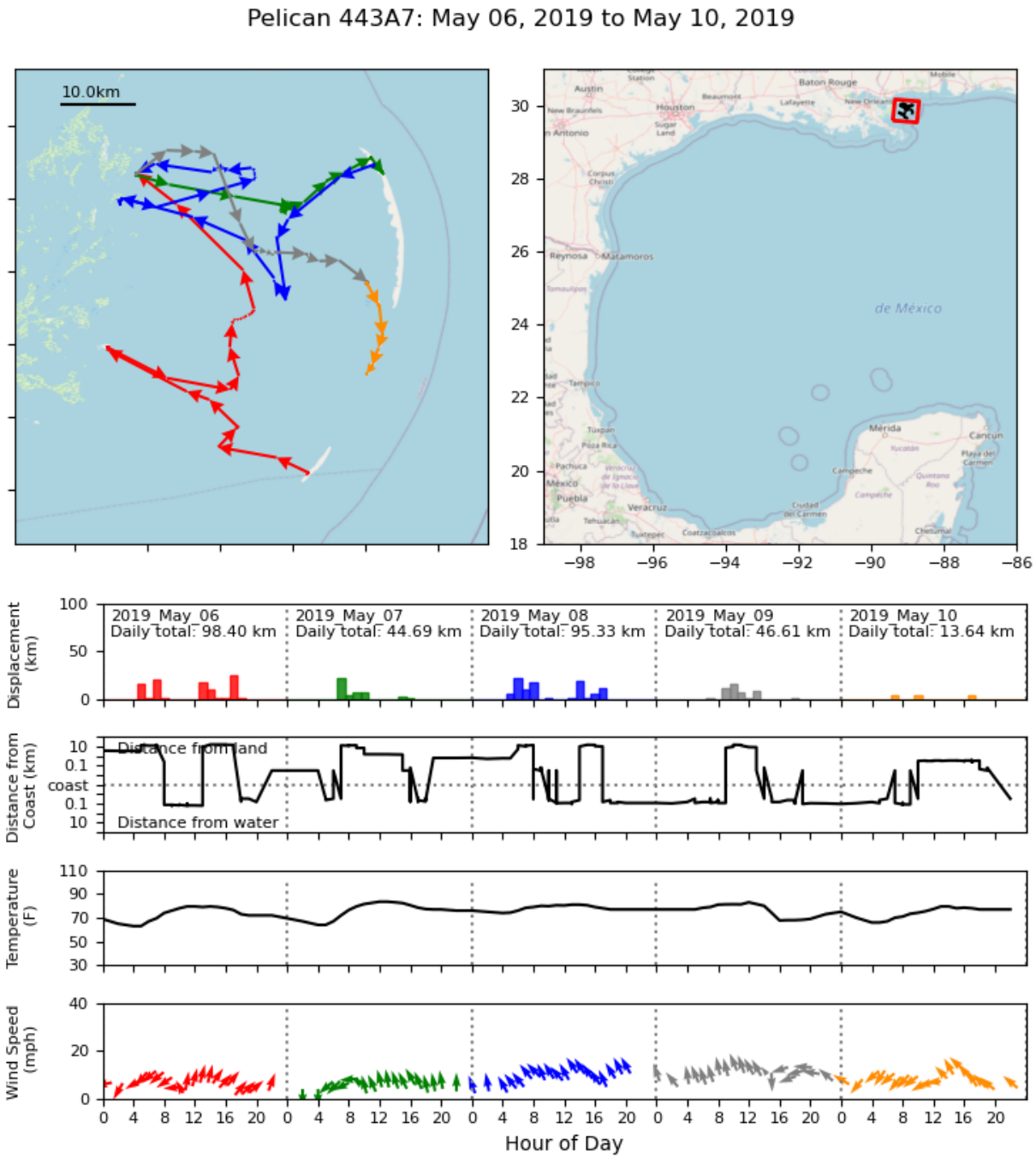

Figure 909 - Maps and graphs showing movements of 443A7 between 2019-05-06 and 2019-05-09 inclusive.

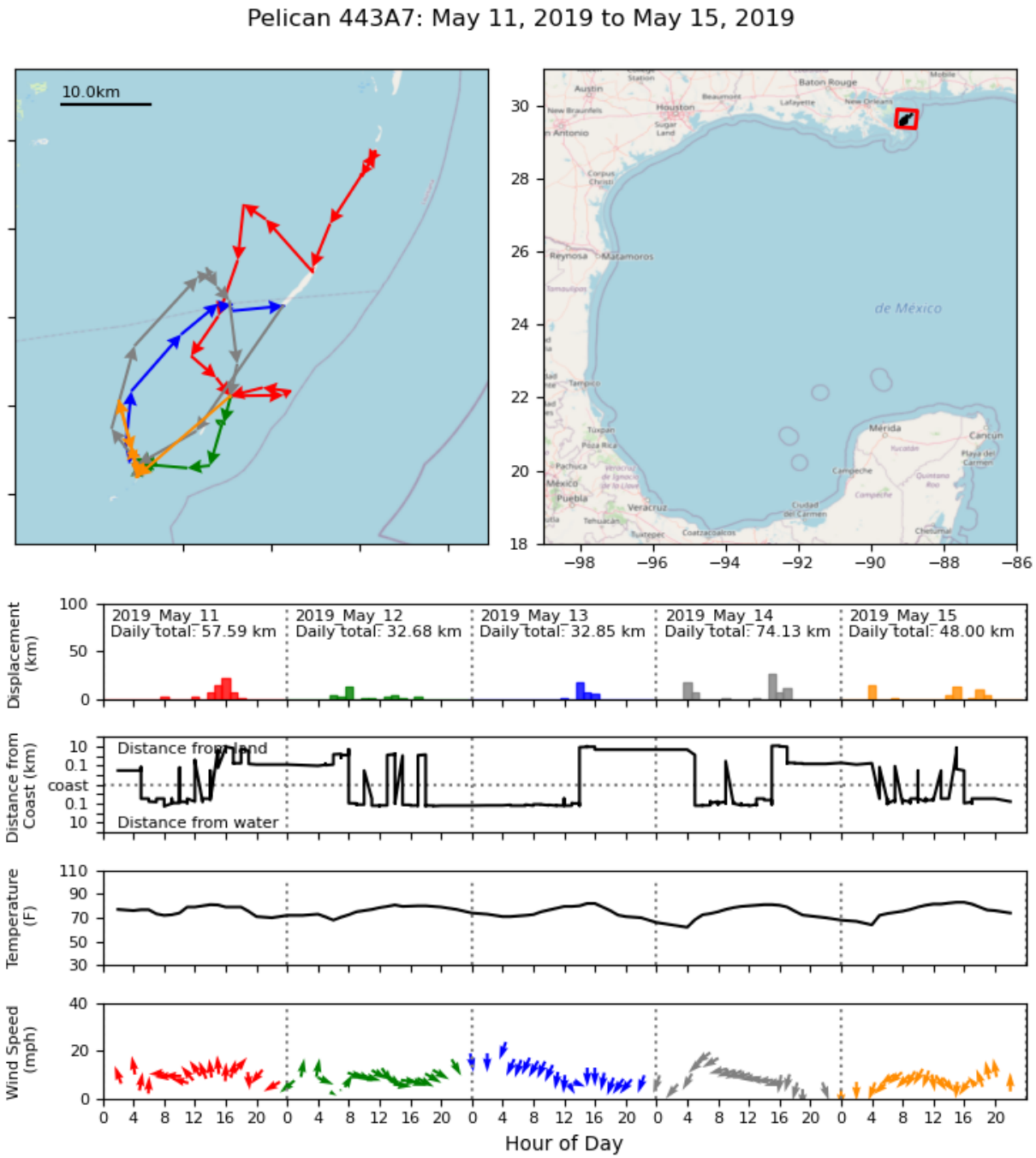

Figure 910 - Maps and graphs showing movements of 443A7 between 2019-05-11 and 2019-05-14 inclusive.

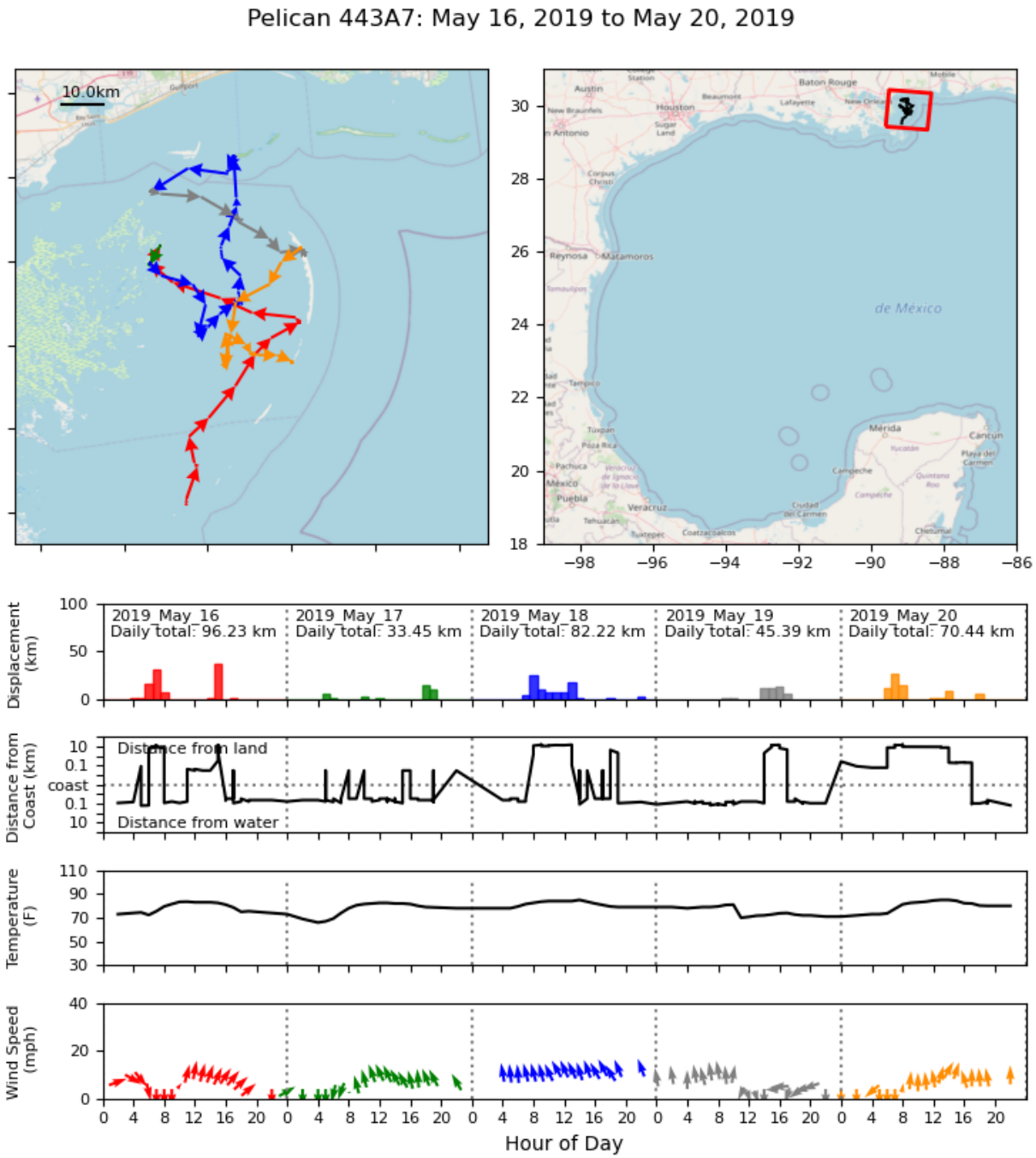

Figure 911 - Maps and graphs showing movements of 443A7 between 2019-05-16 and 2019-05-19 inclusive.

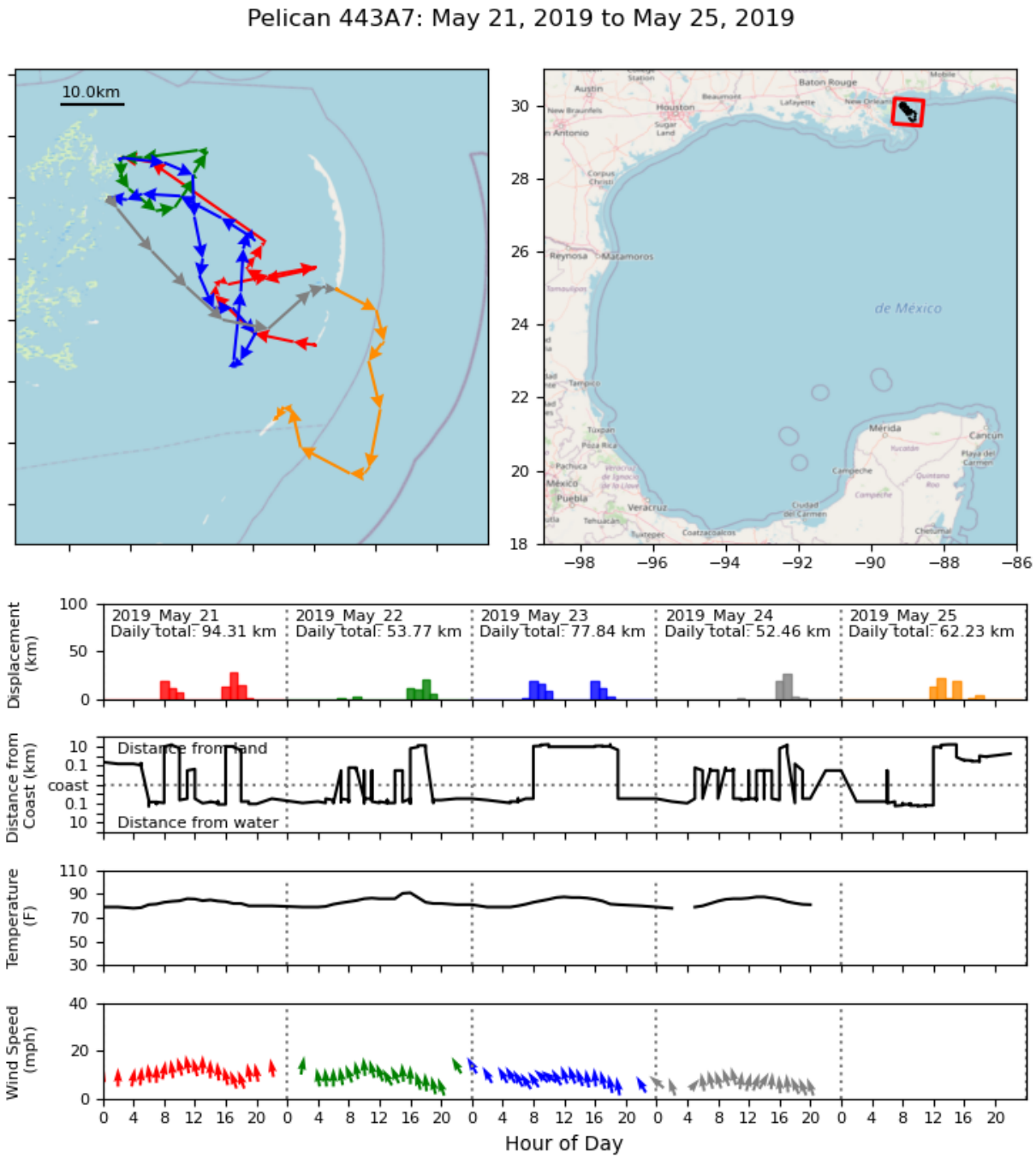

Figure 912 - Maps and graphs showing movements of 443A7 between 2019-05-21 and 2019-05-24 inclusive.

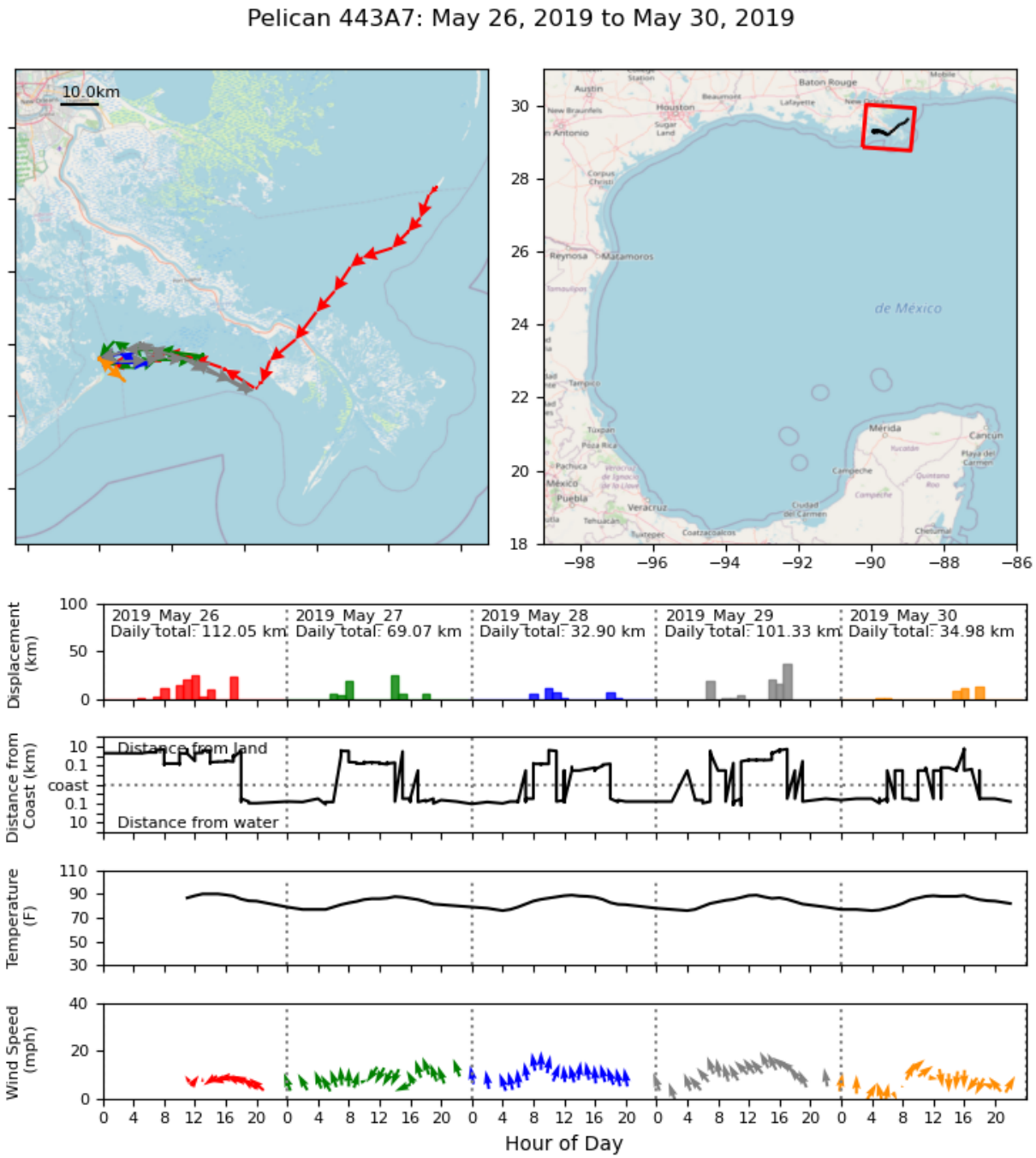

Figure 913 - Maps and graphs showing movements of 443A7 between 2019-05-26 and 2019-05-29 inclusive.

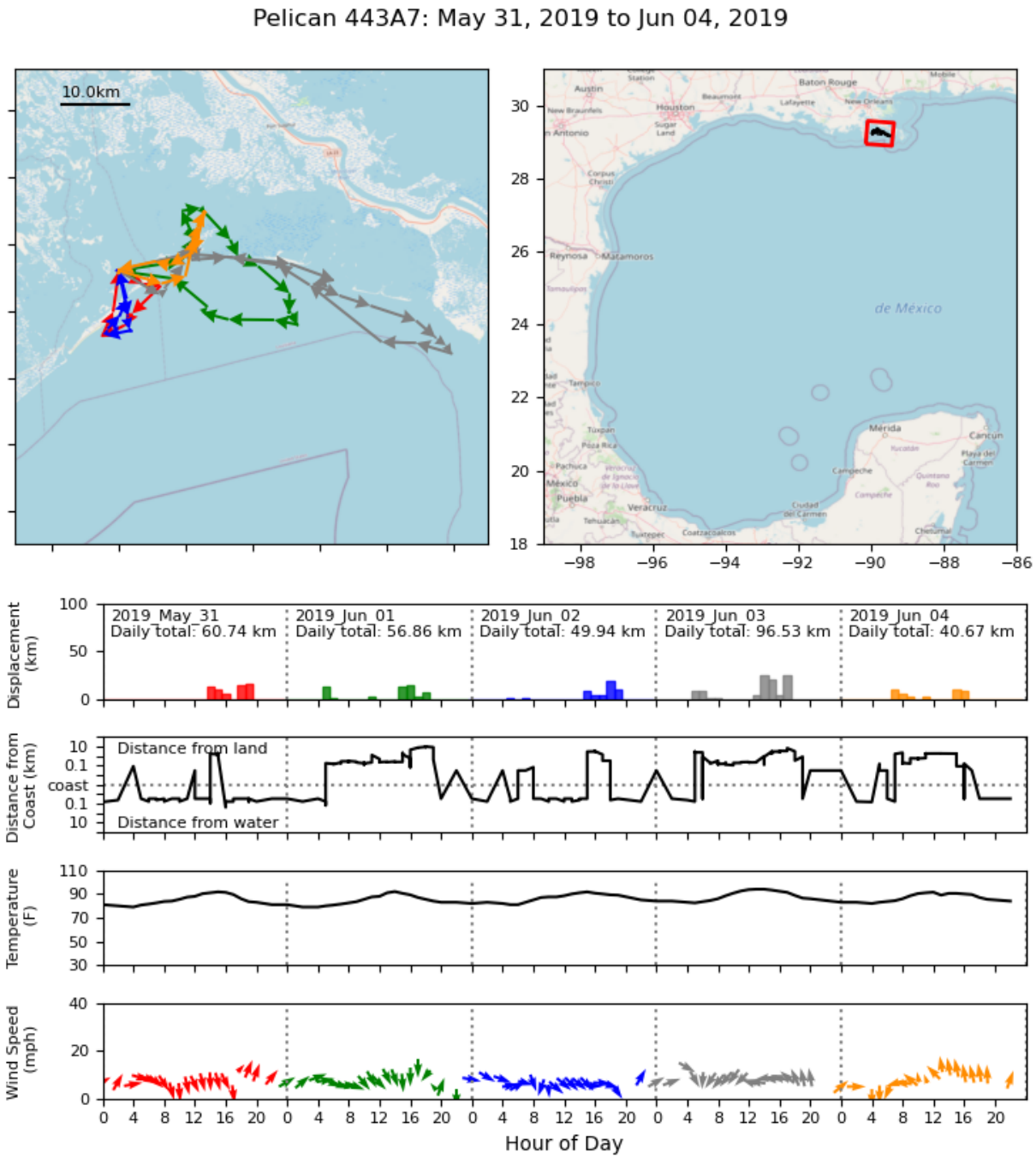

Figure 914 - Maps and graphs showing movements of 443A7 between 2019-05-31 and 2019-06-03 inclusive.

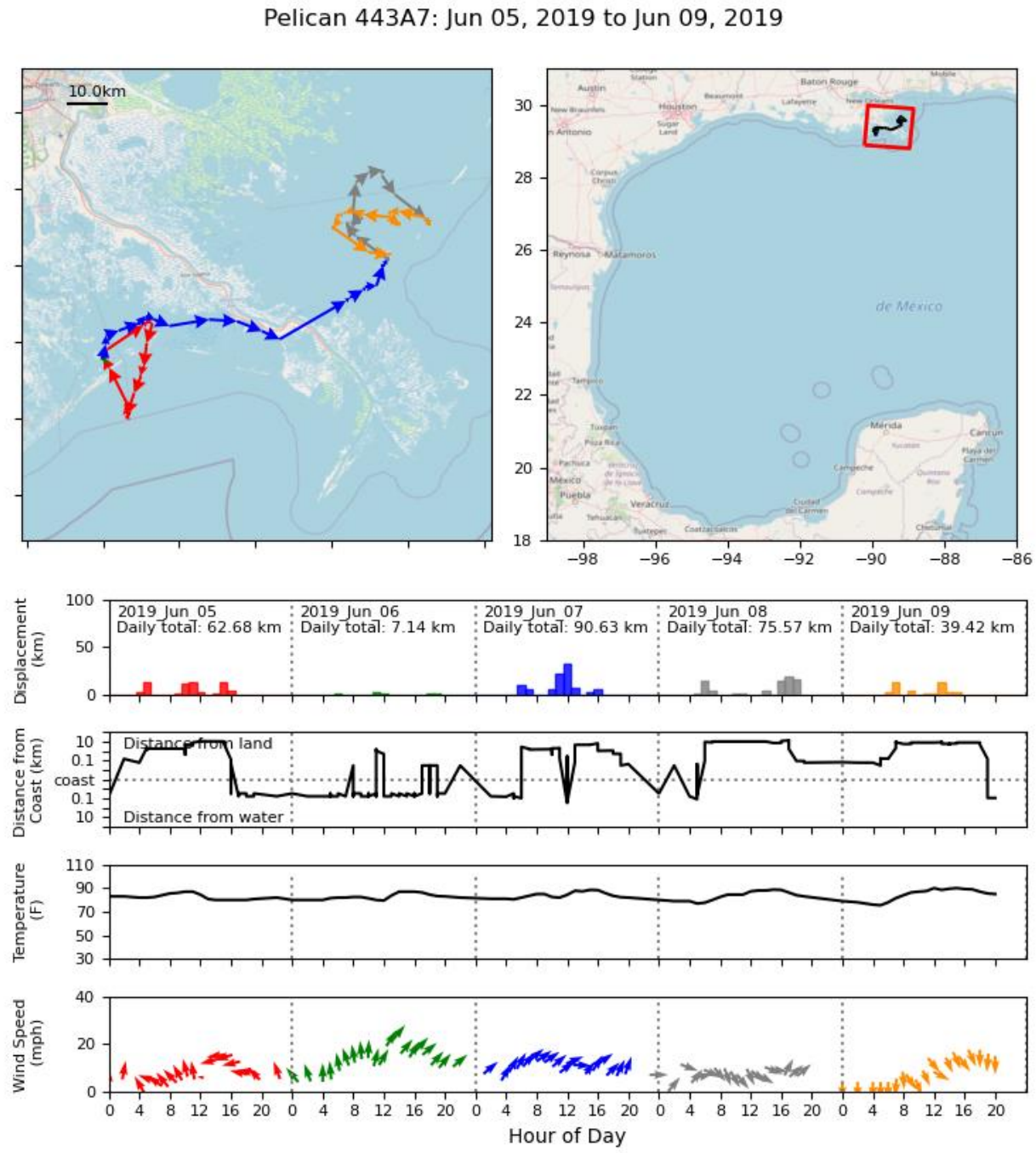

Figure 915 - Maps and graphs showing movements of 443A7 between 2019-06-05 and 2019-06-08 inclusive.

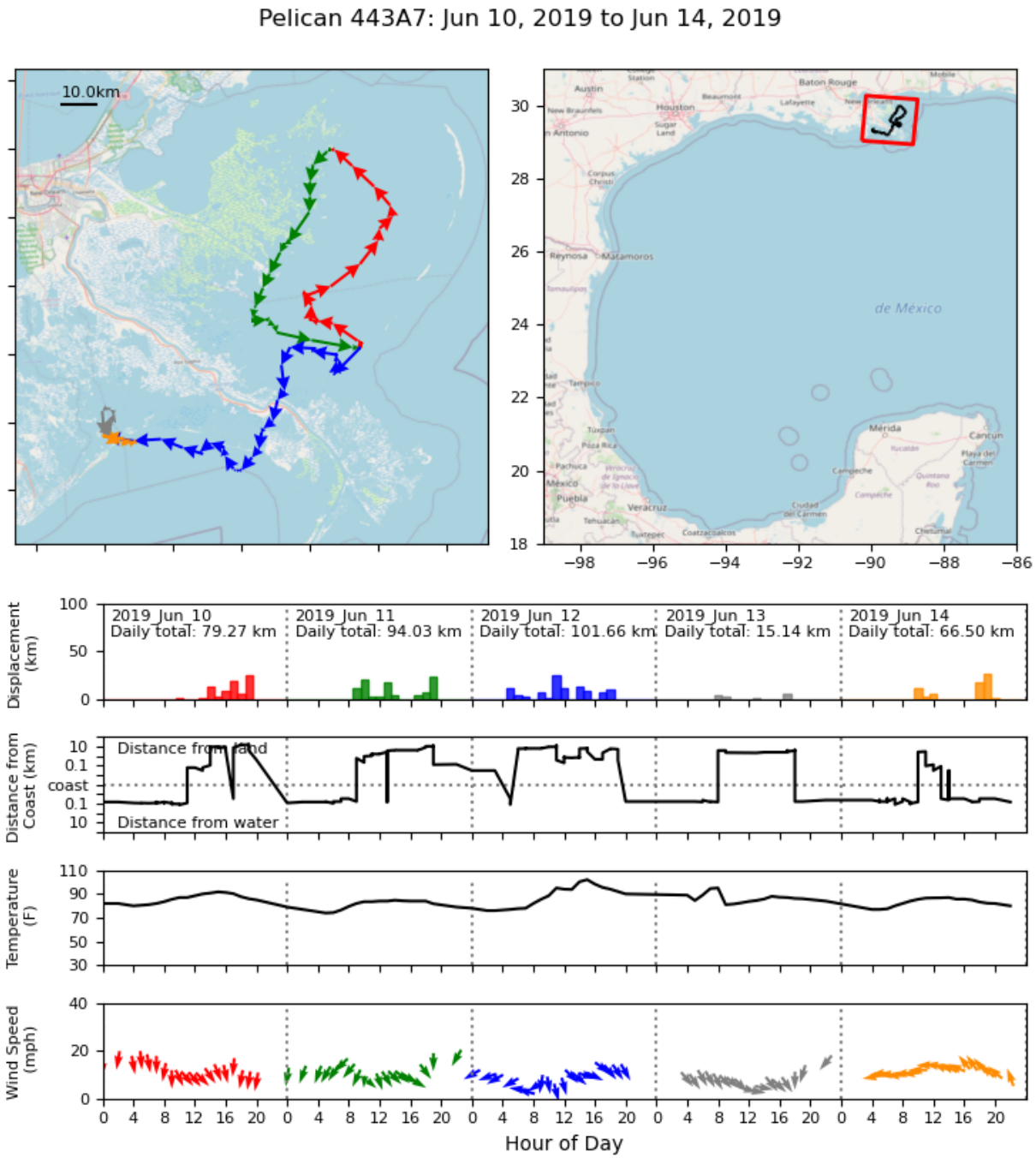

Figure 916 - Maps and graphs showing movements of 443A7 between 2019-06-10 and 2019-06-13 inclusive.

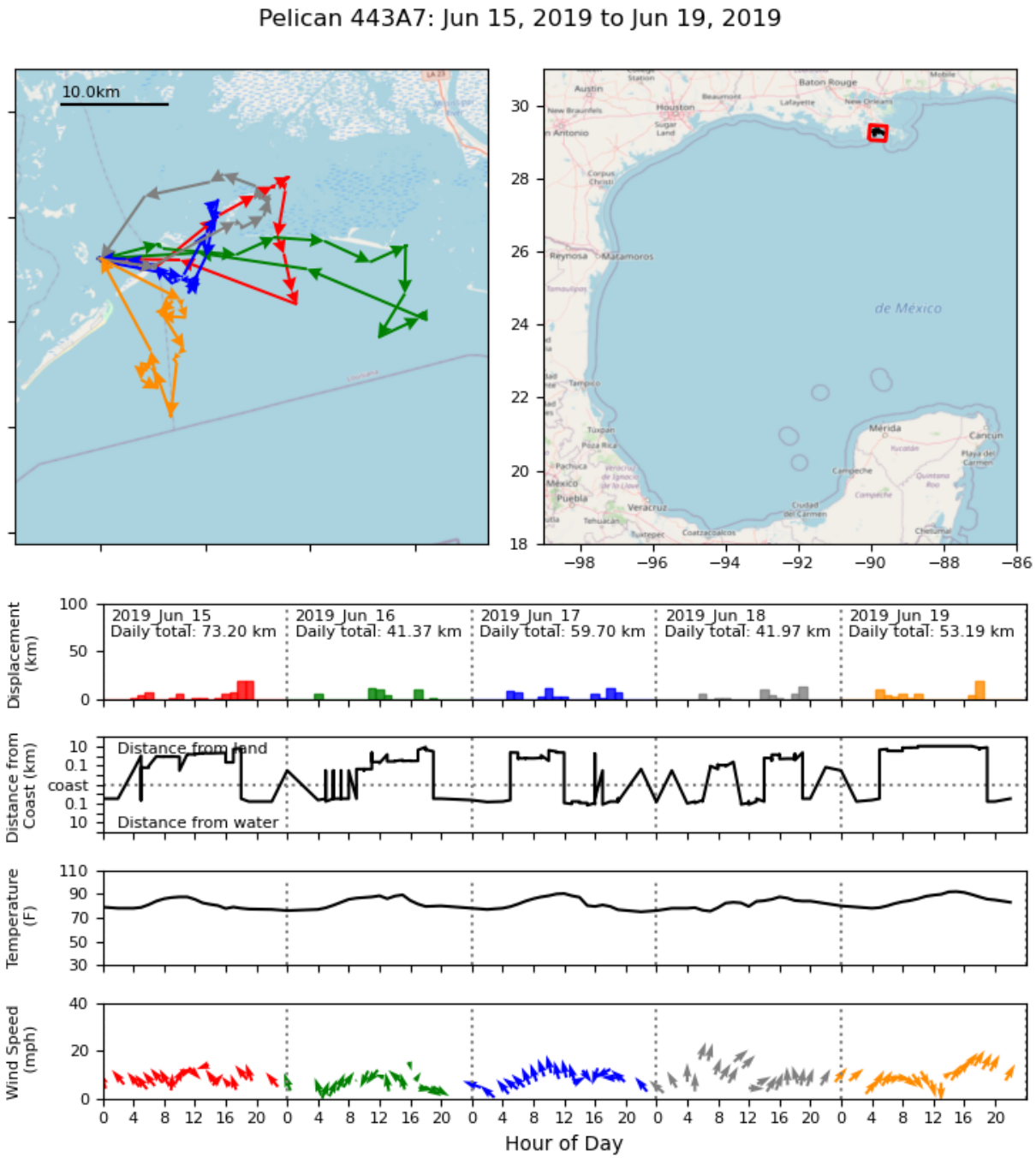

Figure 917 - Maps and graphs showing movements of 443A7 between 2019-06-15 and 2019-06-18 inclusive.

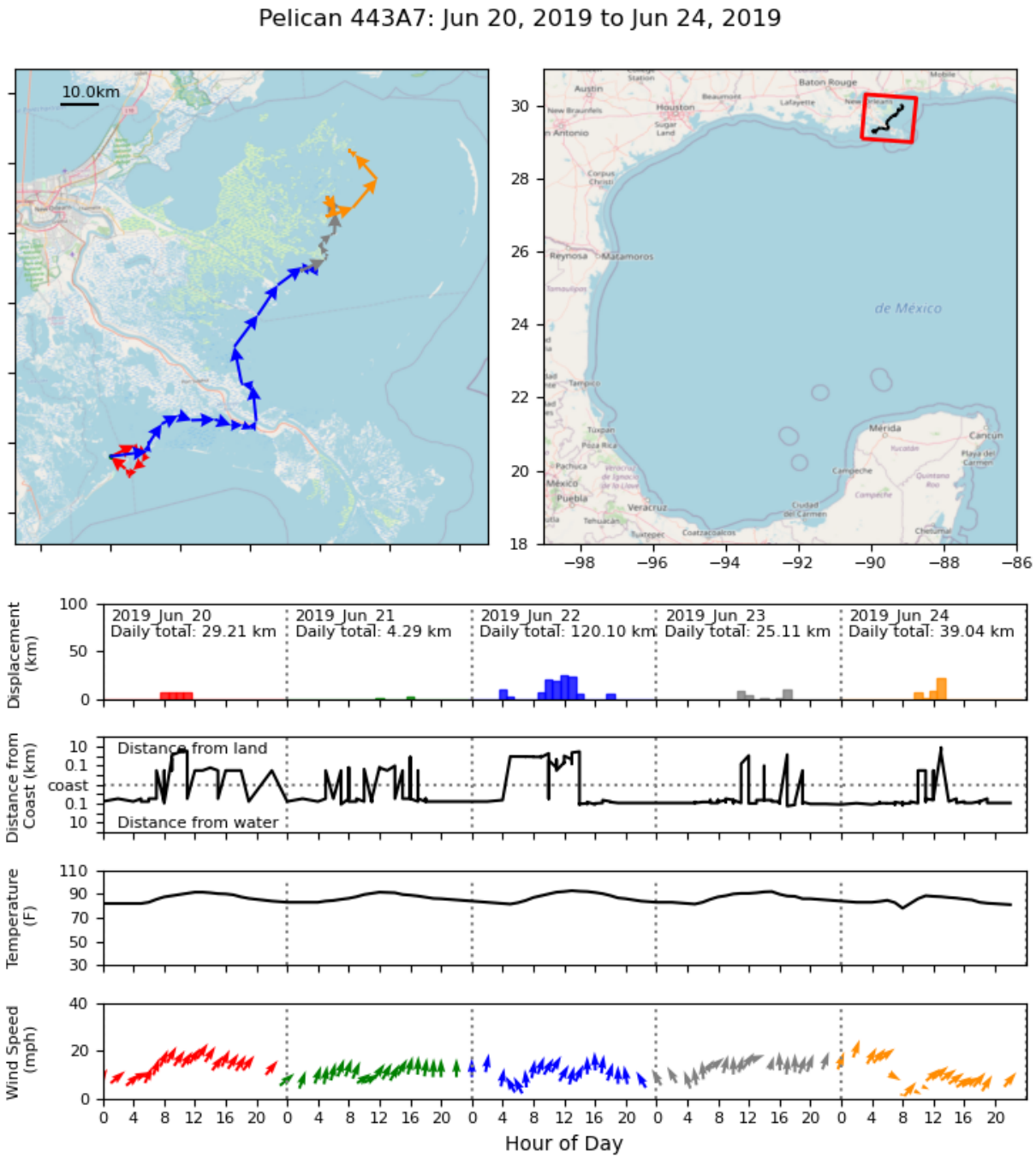

Figure 918 - Maps and graphs showing movements of 443A7 between 2019-06-20 and 2019-06-23 inclusive.

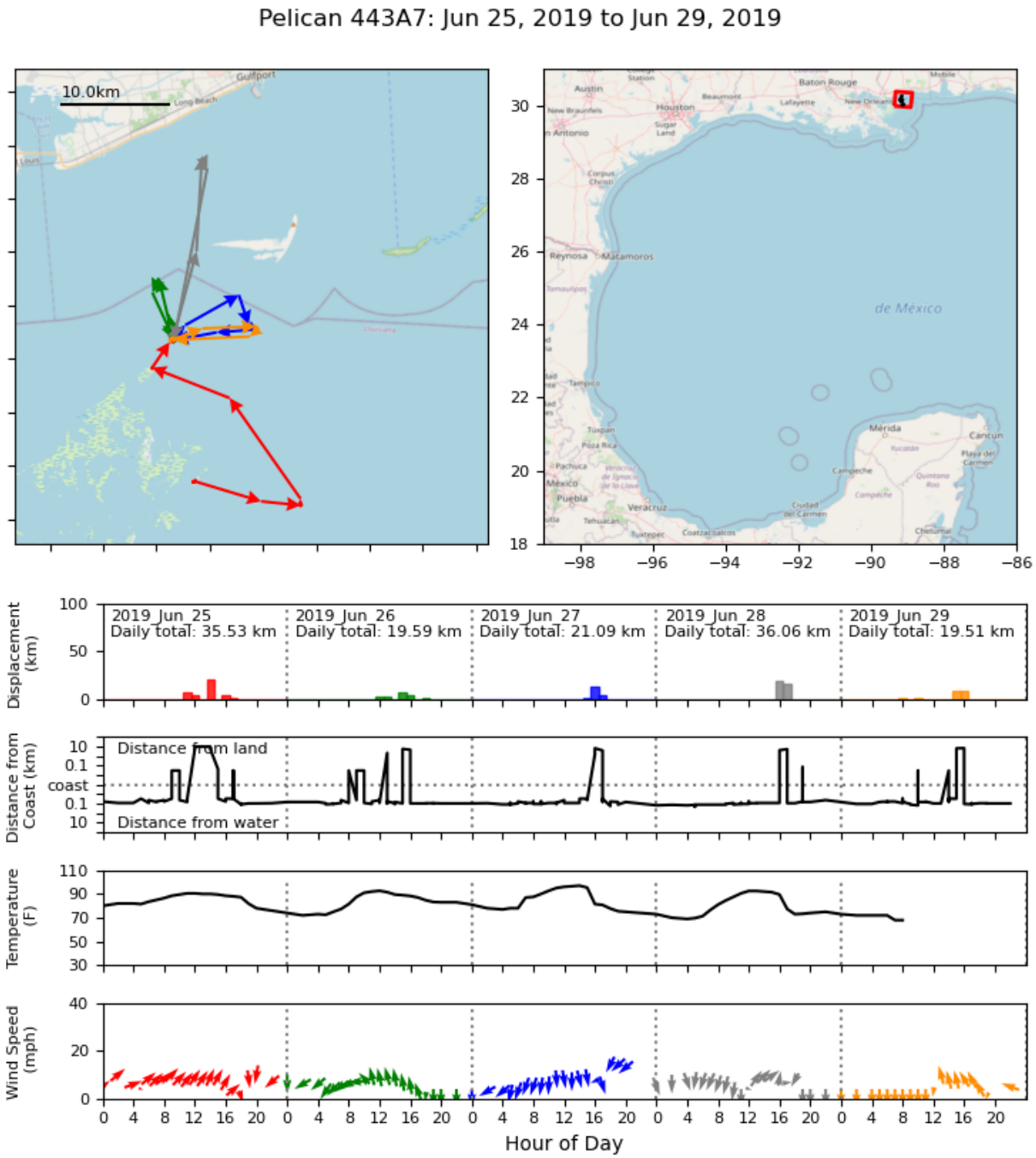

Figure 919 - Maps and graphs showing movements of 443A7 between 2019-06-25 and 2019-06-28 inclusive.

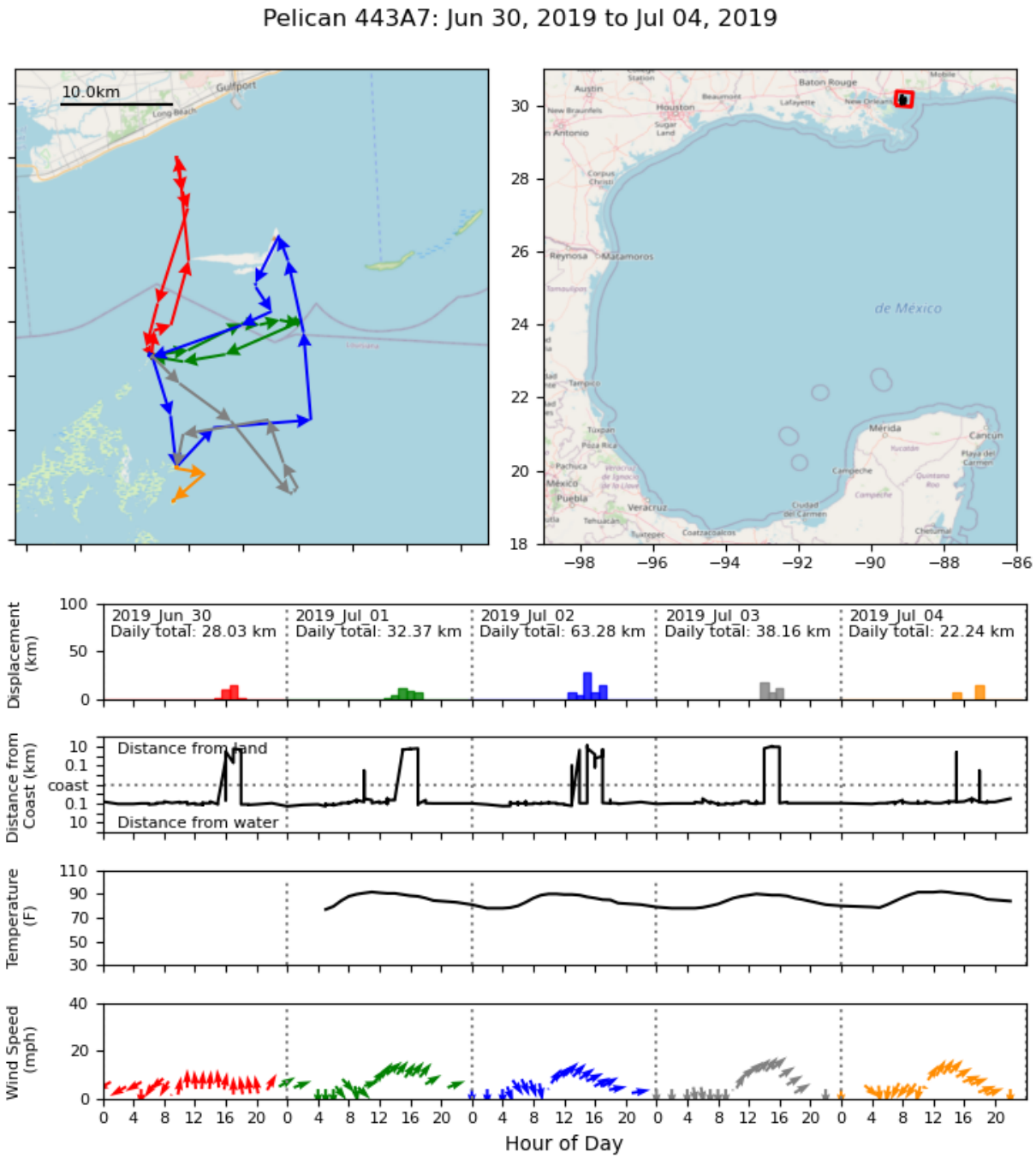

Figure 920 - Maps and graphs showing movements of 443A7 between 2019-06-30 and 2019-07-03 inclusive.

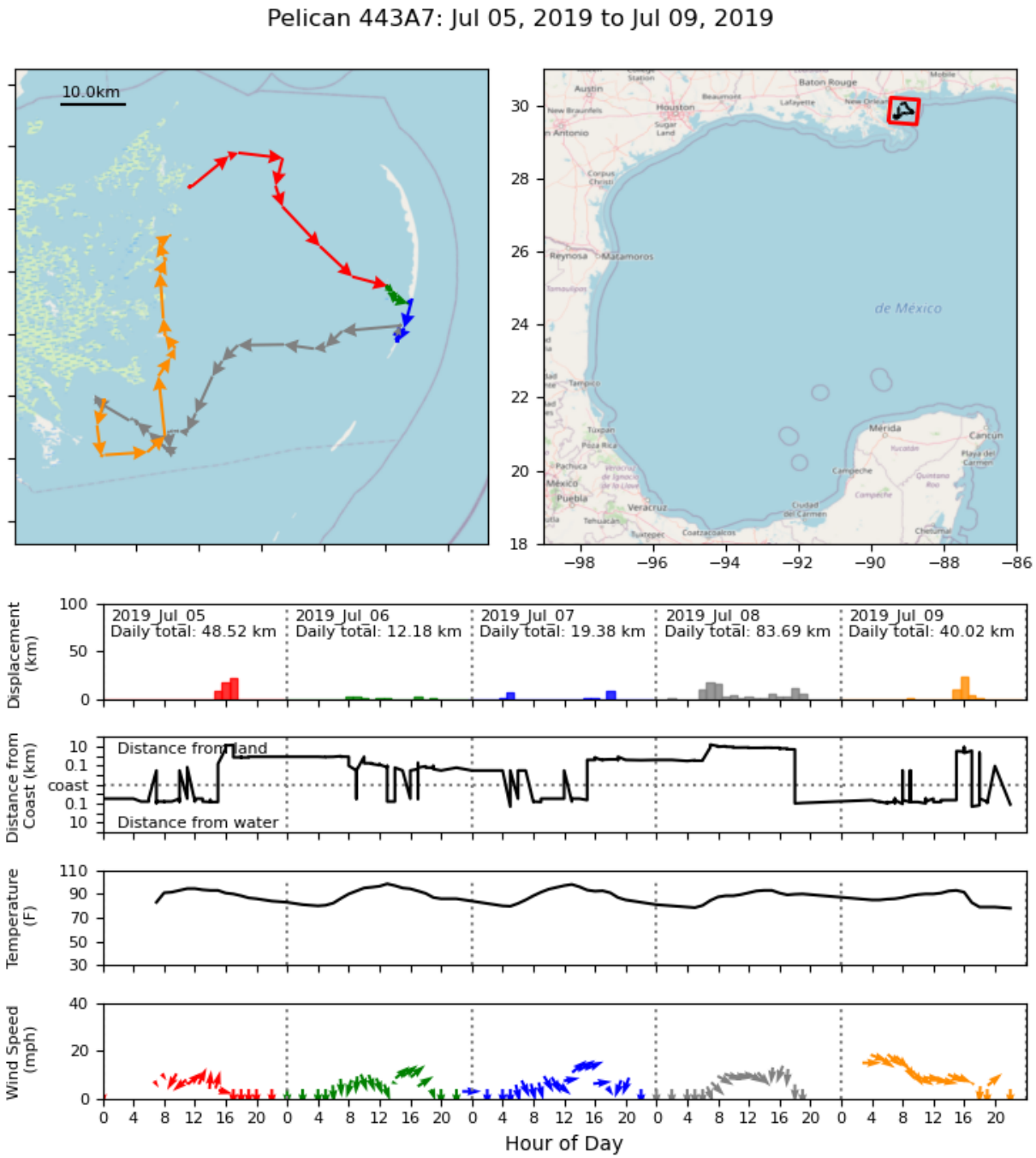

Figure 921 - Maps and graphs showing movements of 443A7 between 2019-07-05 and 2019-07-08 inclusive.

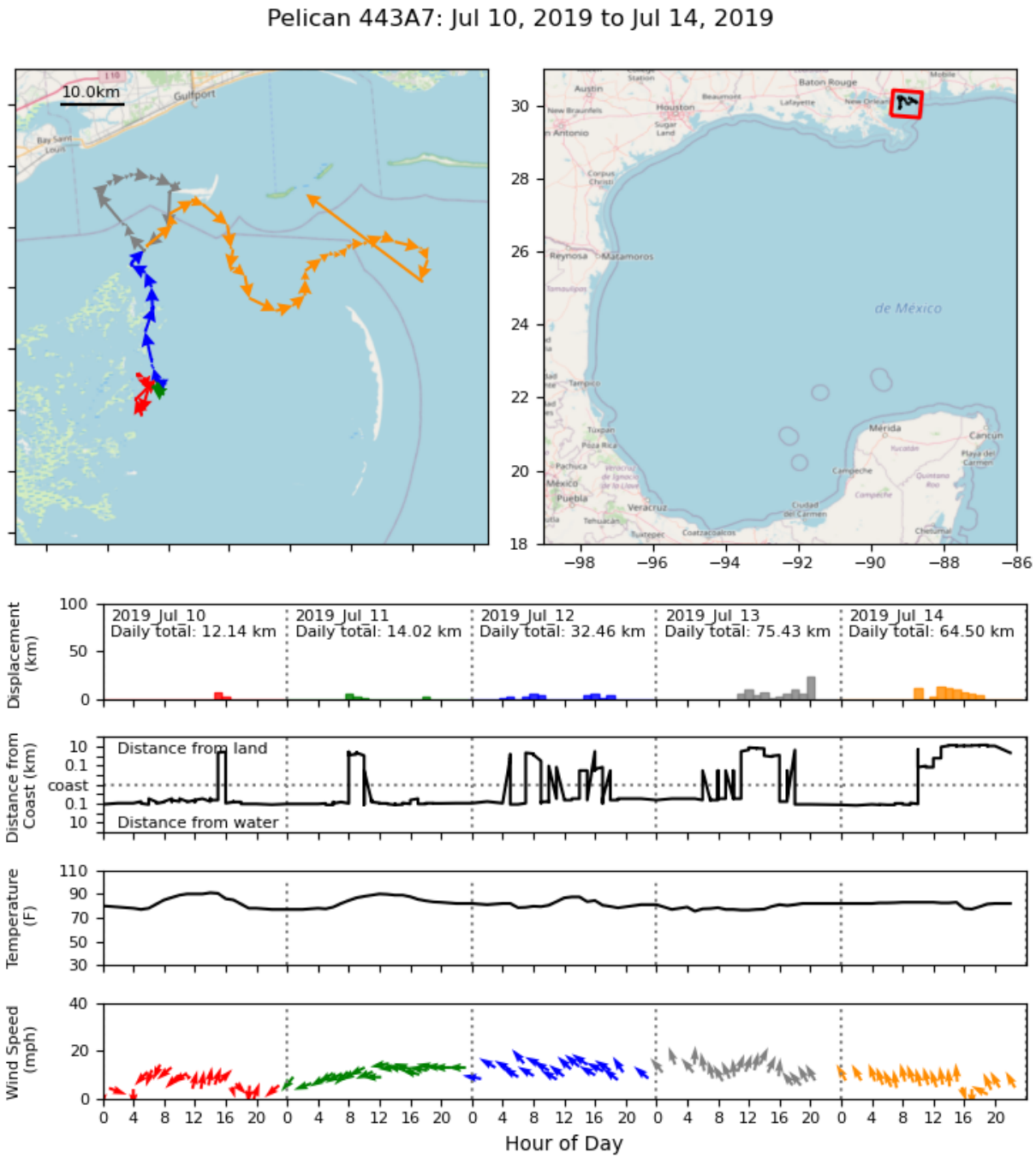

Figure 922 - Maps and graphs showing movements of 443A7 between 2019-07-10 and 2019-07-13 inclusive.

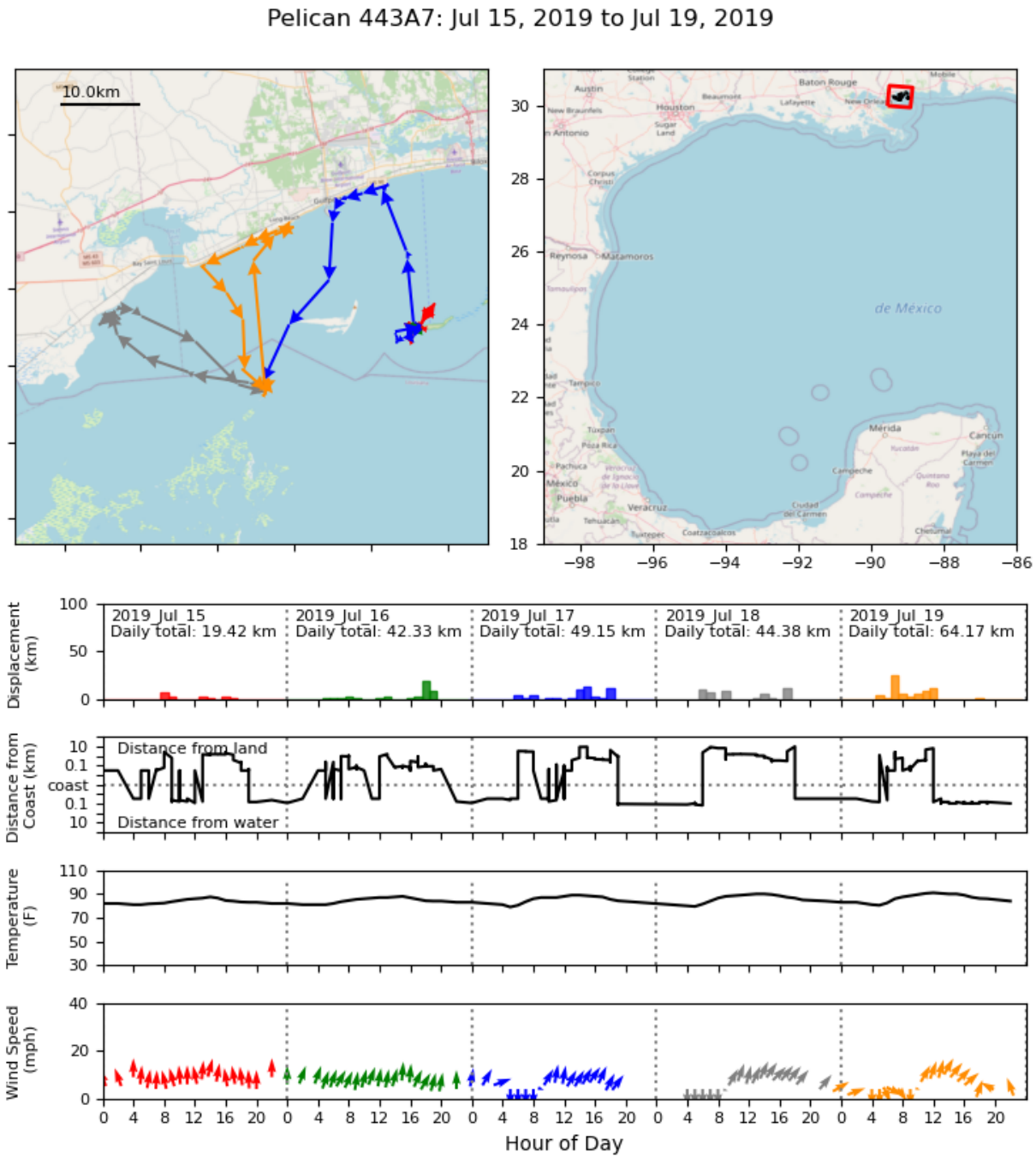

Figure 923 - Maps and graphs showing movements of 443A7 between 2019-07-15 and 2019-07-18 inclusive.

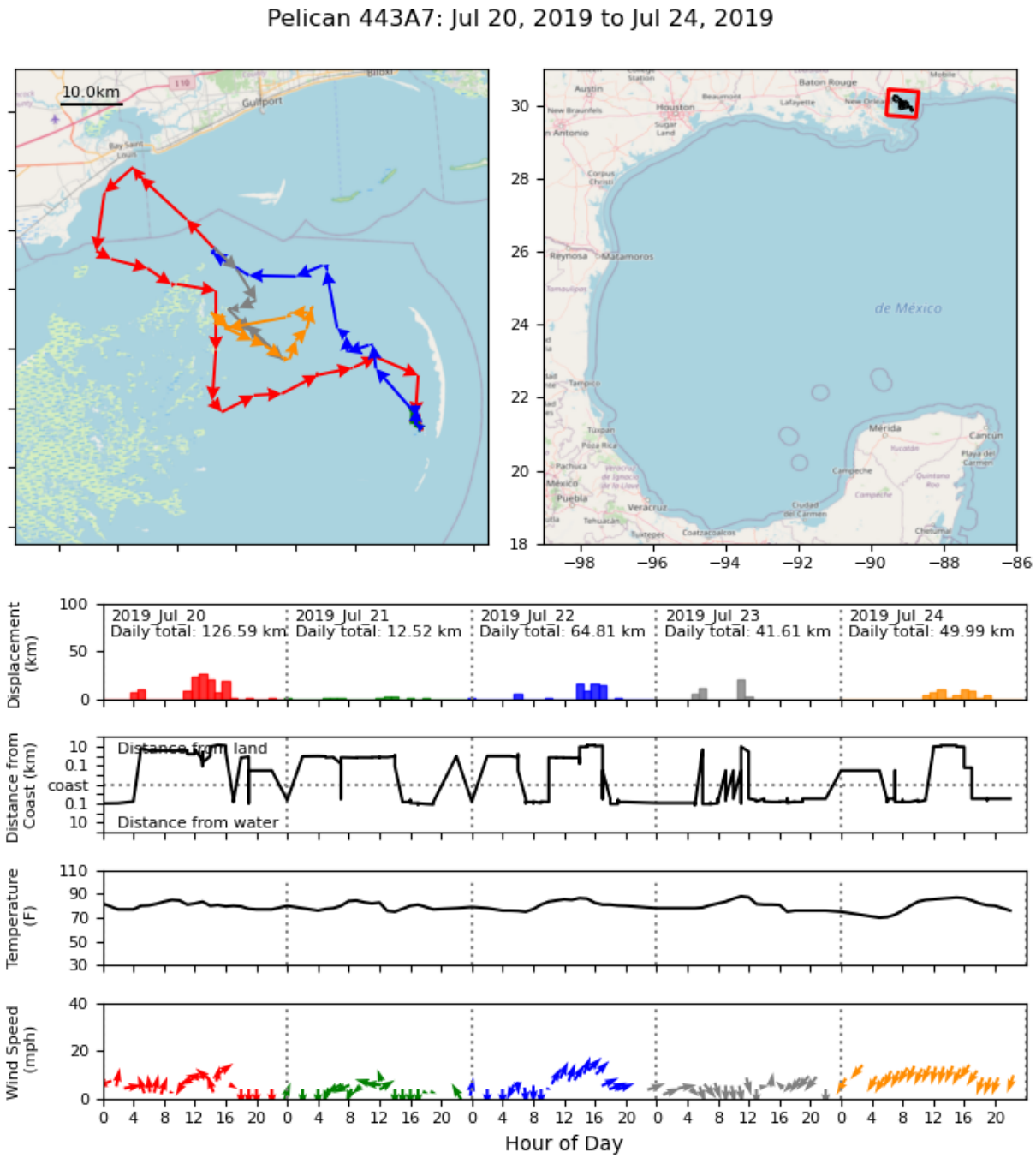

Figure 924 - Maps and graphs showing movements of 443A7 between 2019-07-20 and 2019-07-23 inclusive.

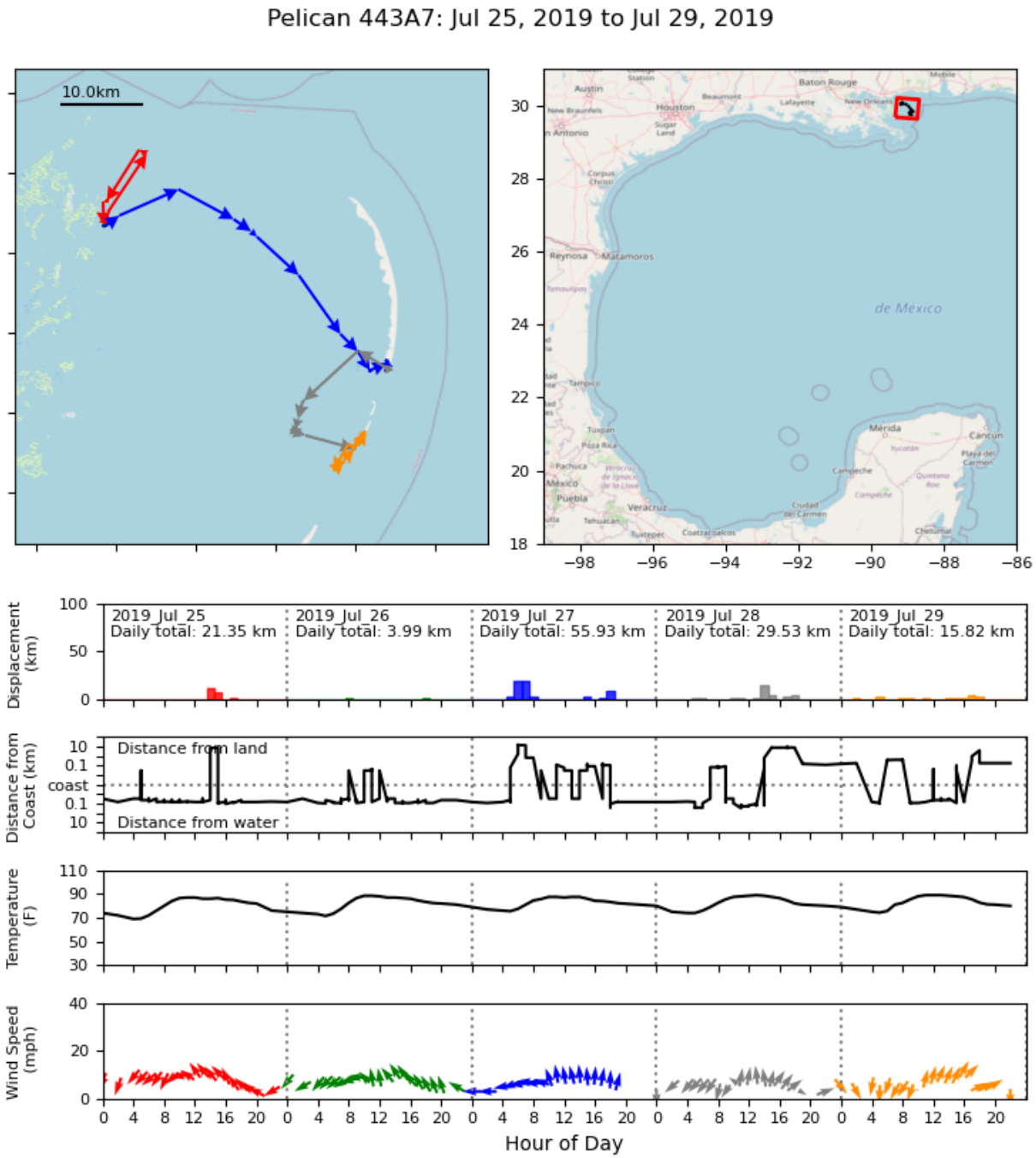

Figure 925 - Maps and graphs showing movements of 443A7 between 2019-07-25 and 2019-07-28 inclusive.

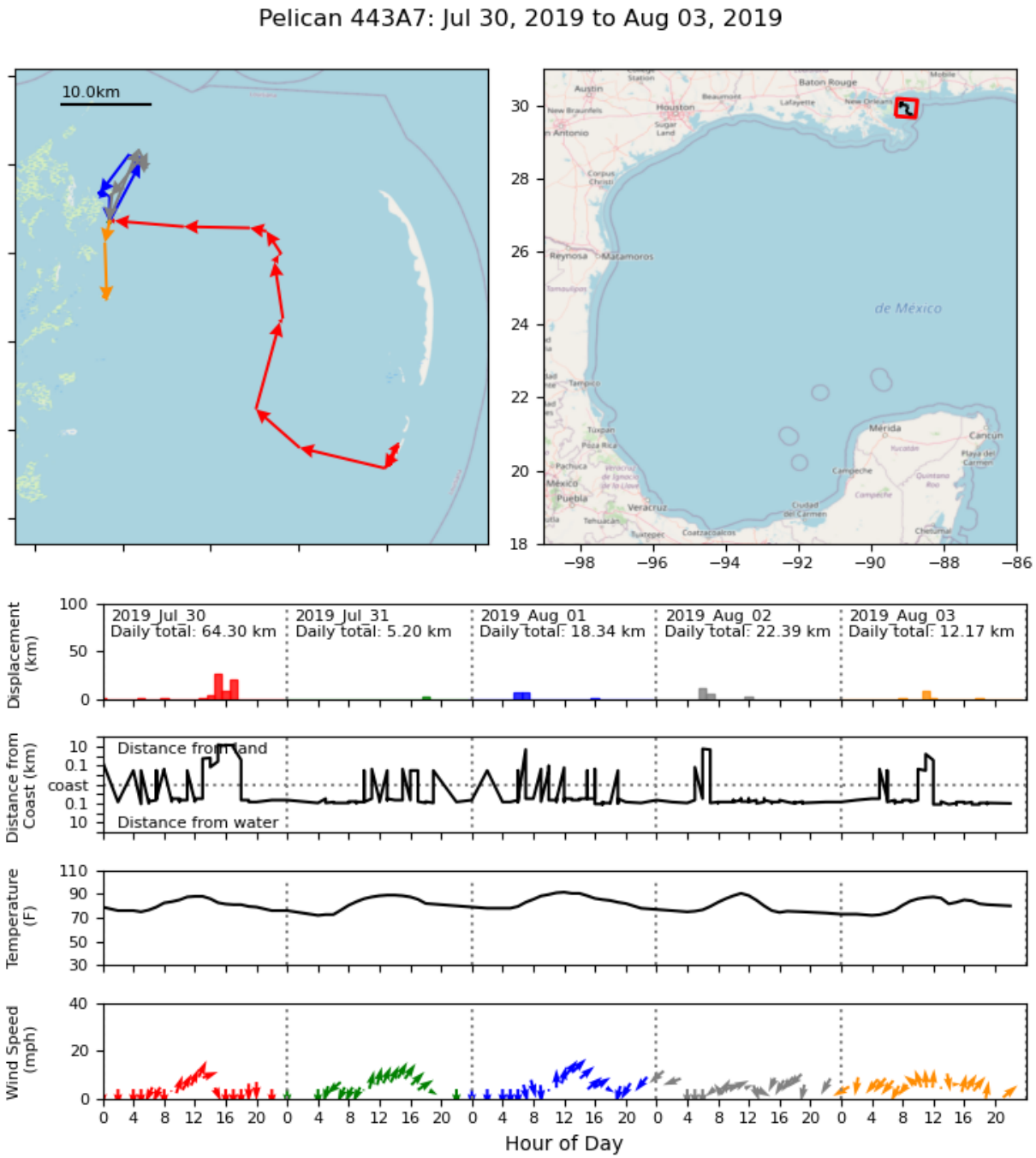

Figure 926 - Maps and graphs showing movements of 443A7 between 2019-07-30 and 2019-08-02 inclusive.

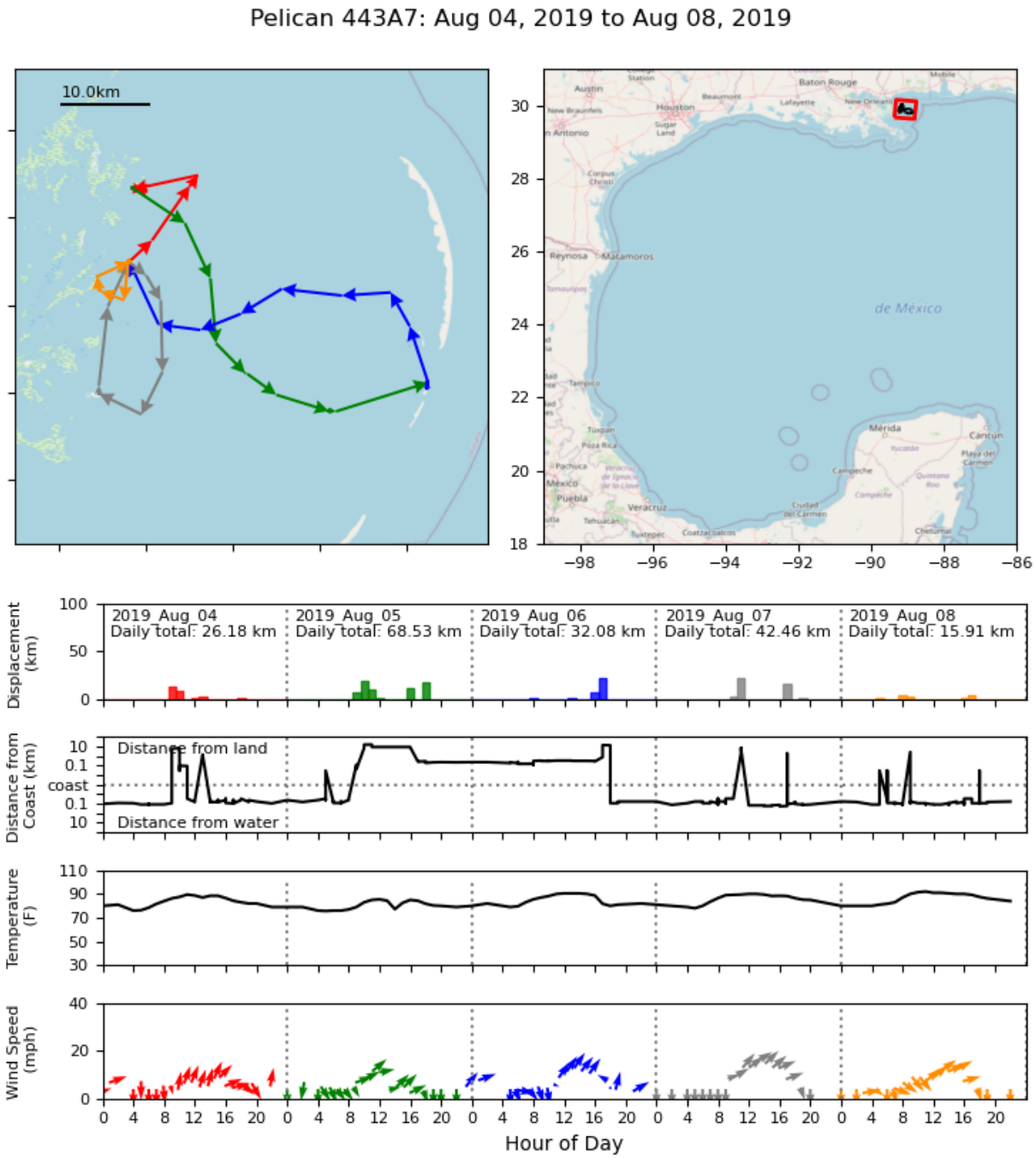

Figure 927 - Maps and graphs showing movements of 443A7 between 2019-08-04 and 2019-08-07 inclusive.

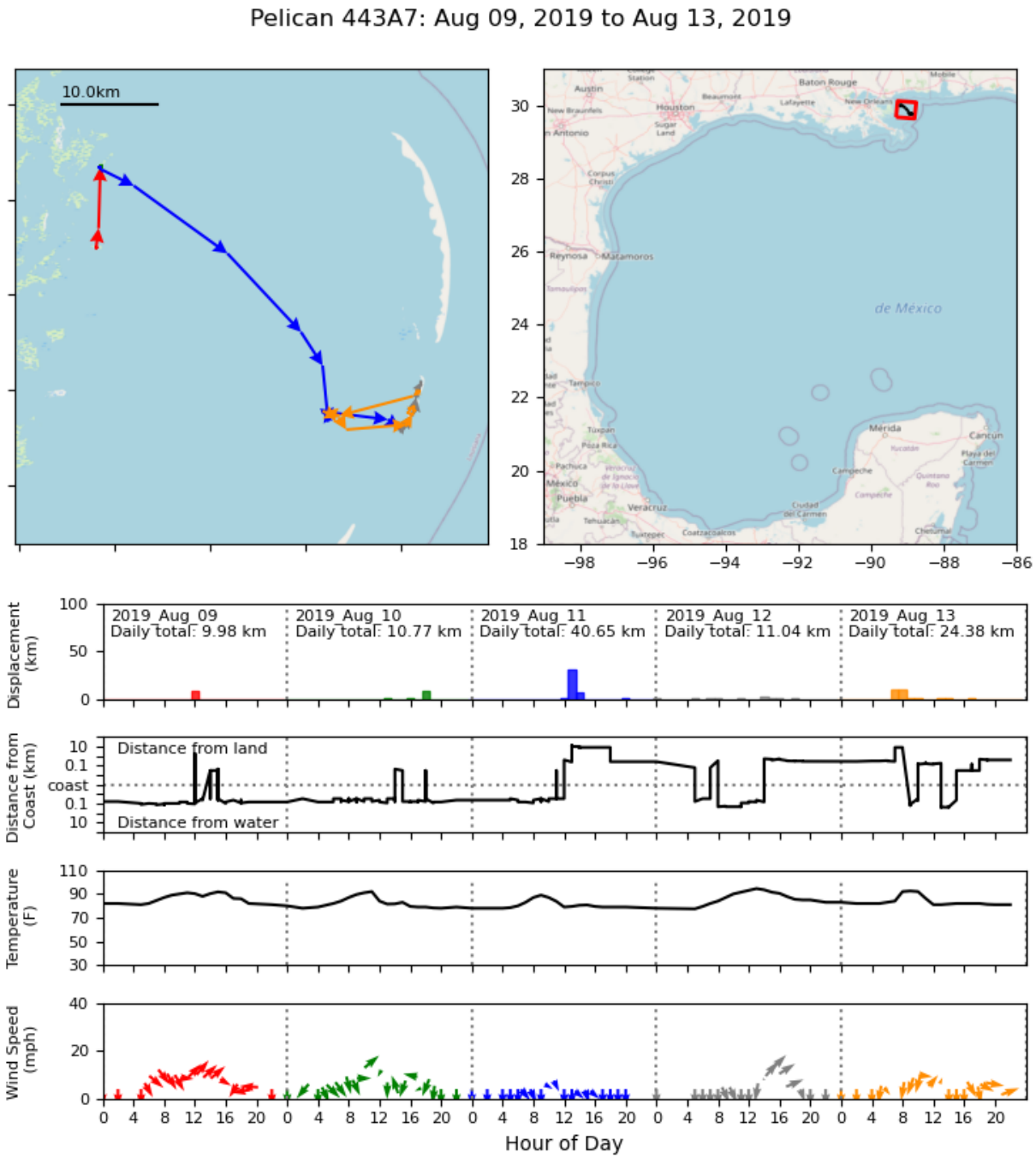

Figure 928 - Maps and graphs showing movements of 443A7 between 2019-08-09 and 2019-08-12 inclusive.

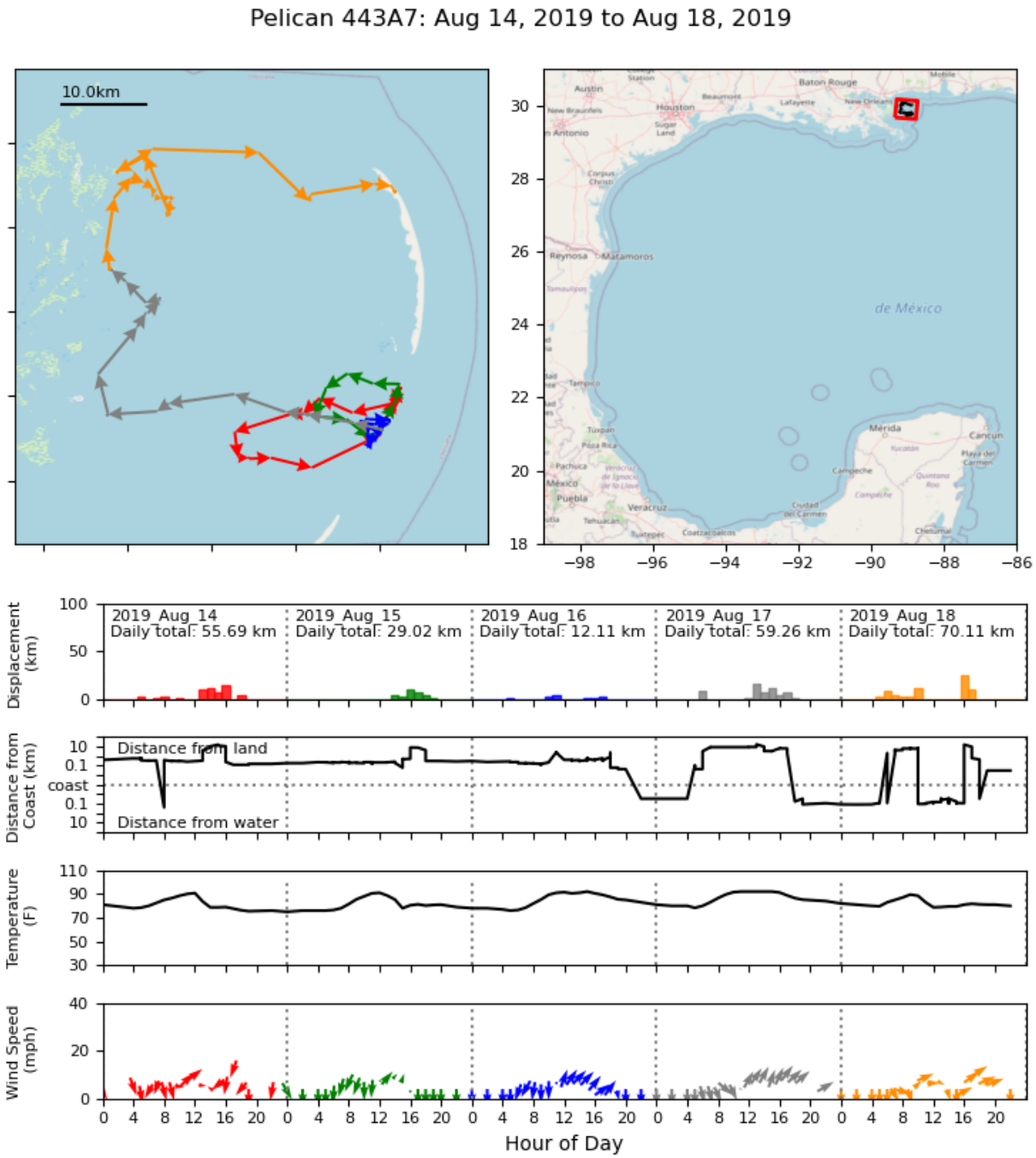

Figure 929 - Maps and graphs showing movements of 443A7 between 2019-08-14 and 2019-08-17 inclusive.

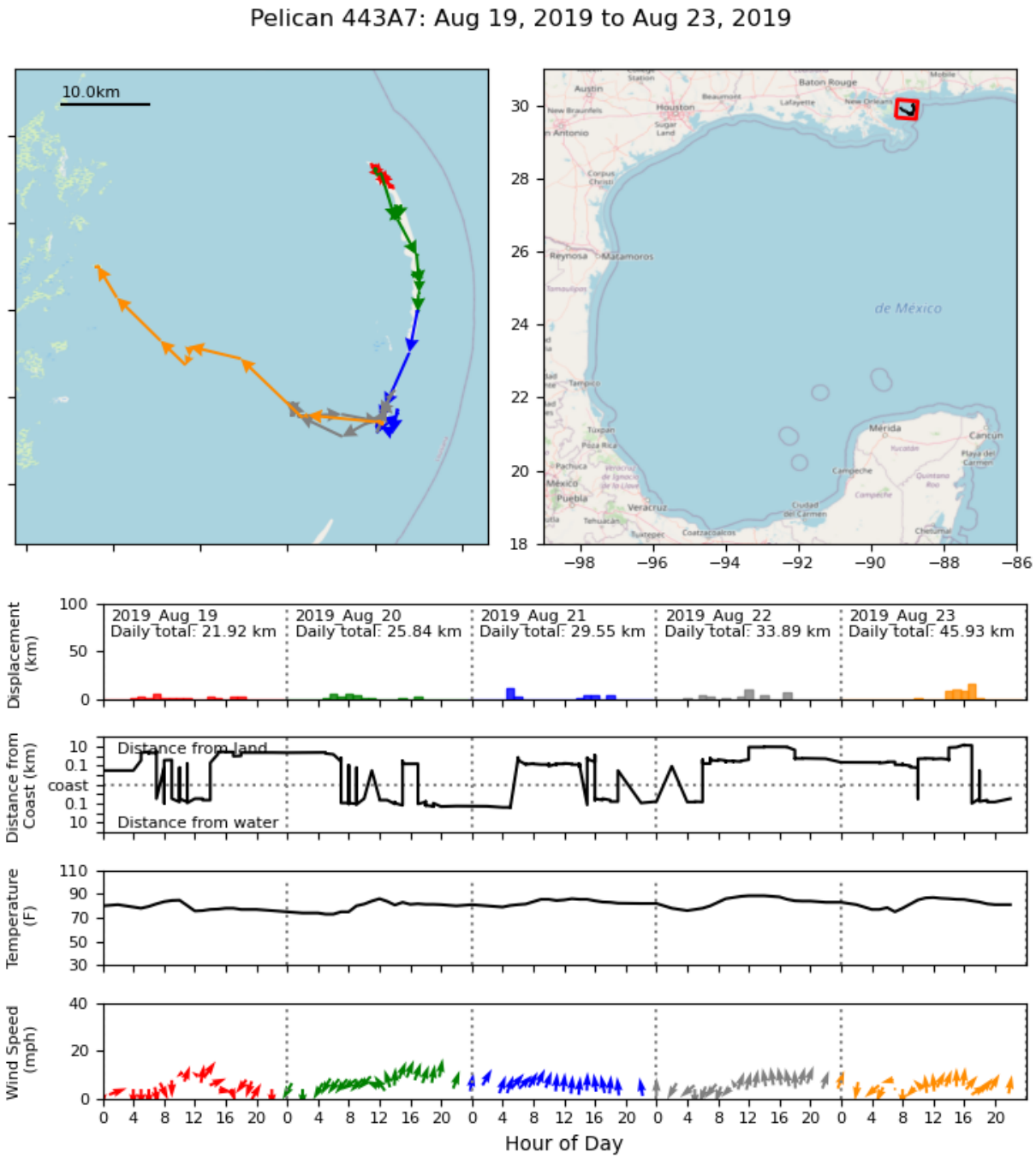

Figure 930 - Maps and graphs showing movements of 443A7 between 2019-08-19 and 2019-08-22 inclusive.

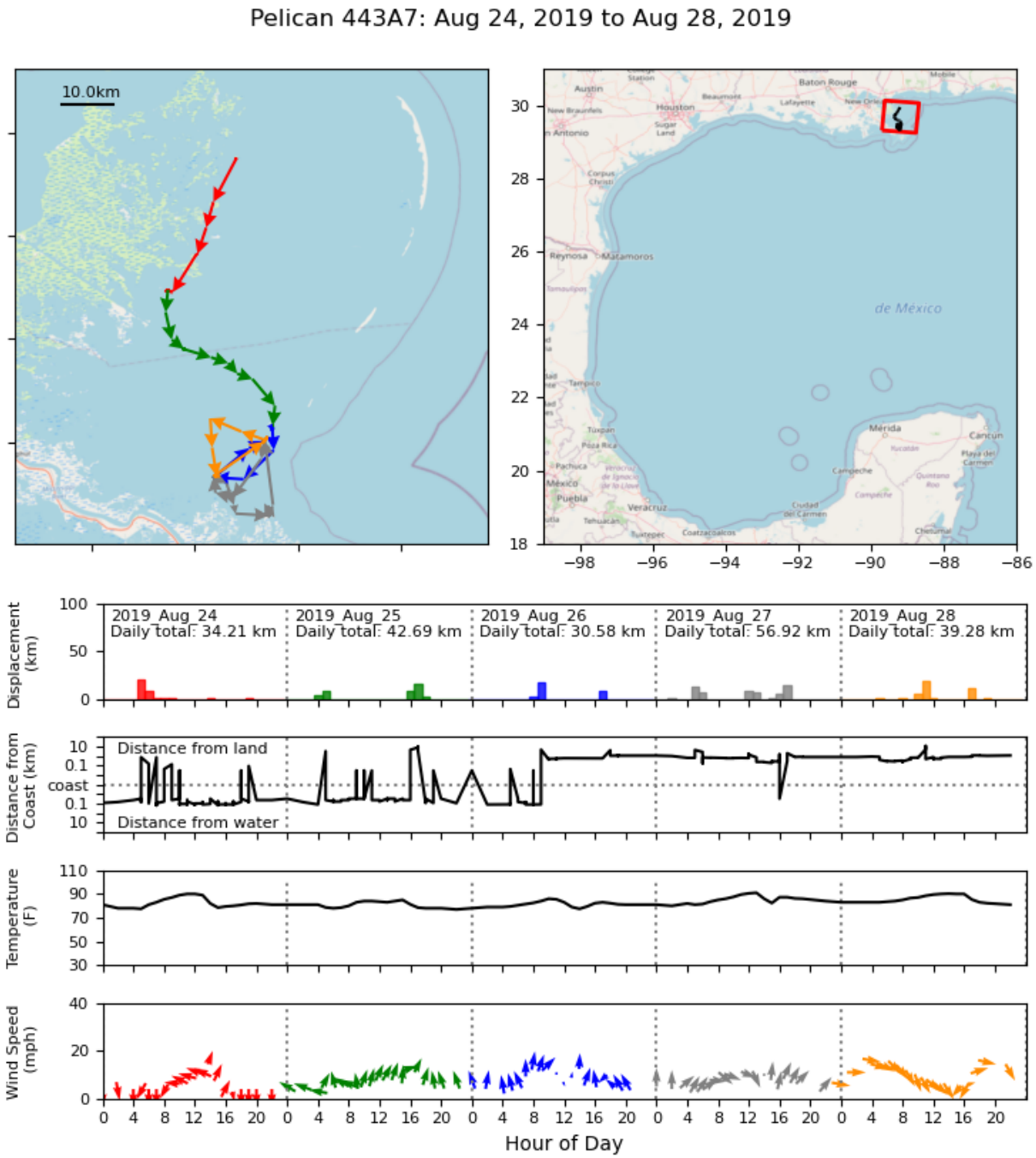

Figure 931 - Maps and graphs showing movements of 443A7 between 2019-08-24 and 2019-08-27 inclusive.

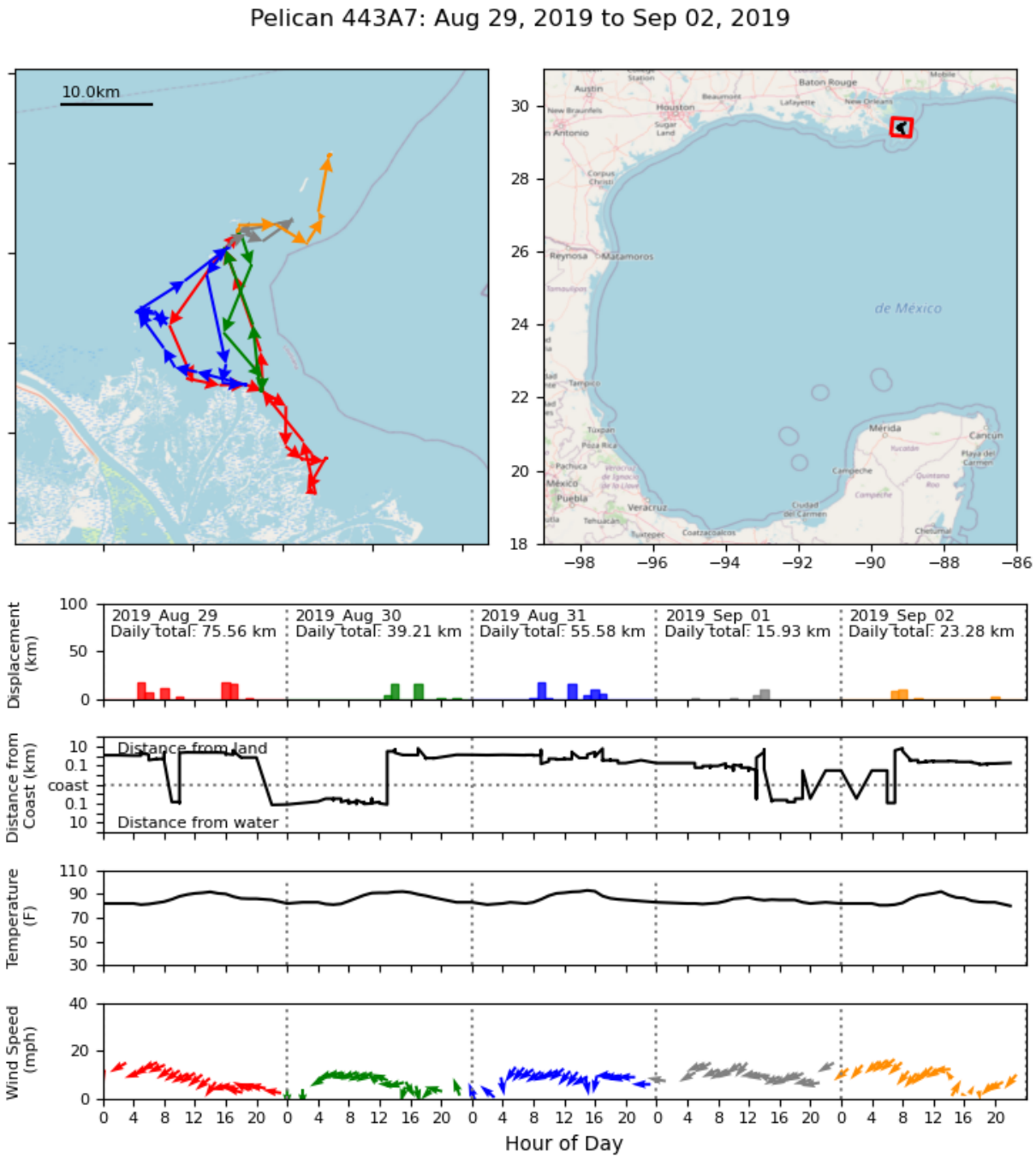

Figure 932 - Maps and graphs showing movements of 443A7 between 2019-08-29 and 2019-09-01 inclusive.

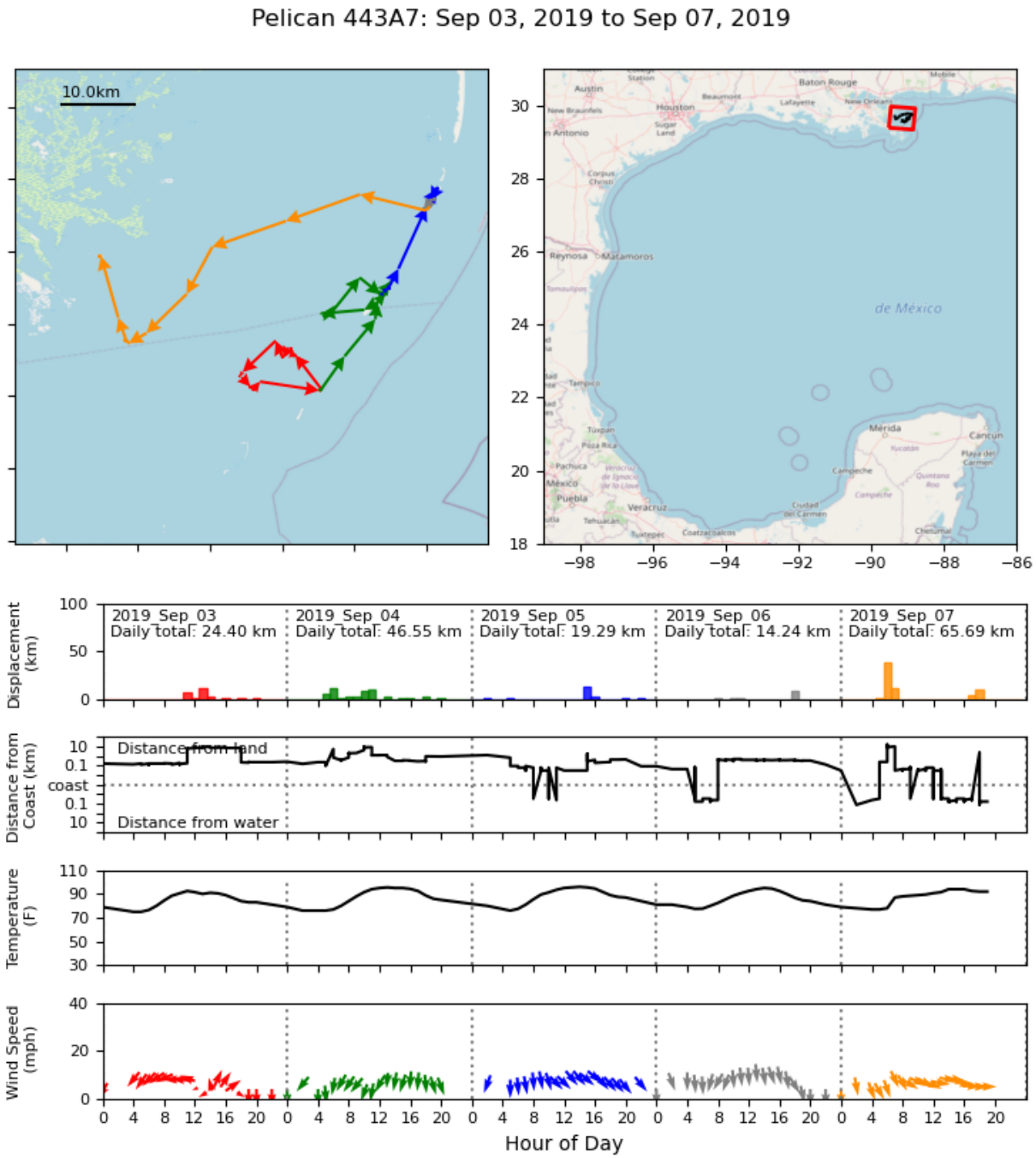

Figure 933 - Maps and graphs showing movements of 443A7 between 2019-09-03 and 2019-09-06 inclusive.

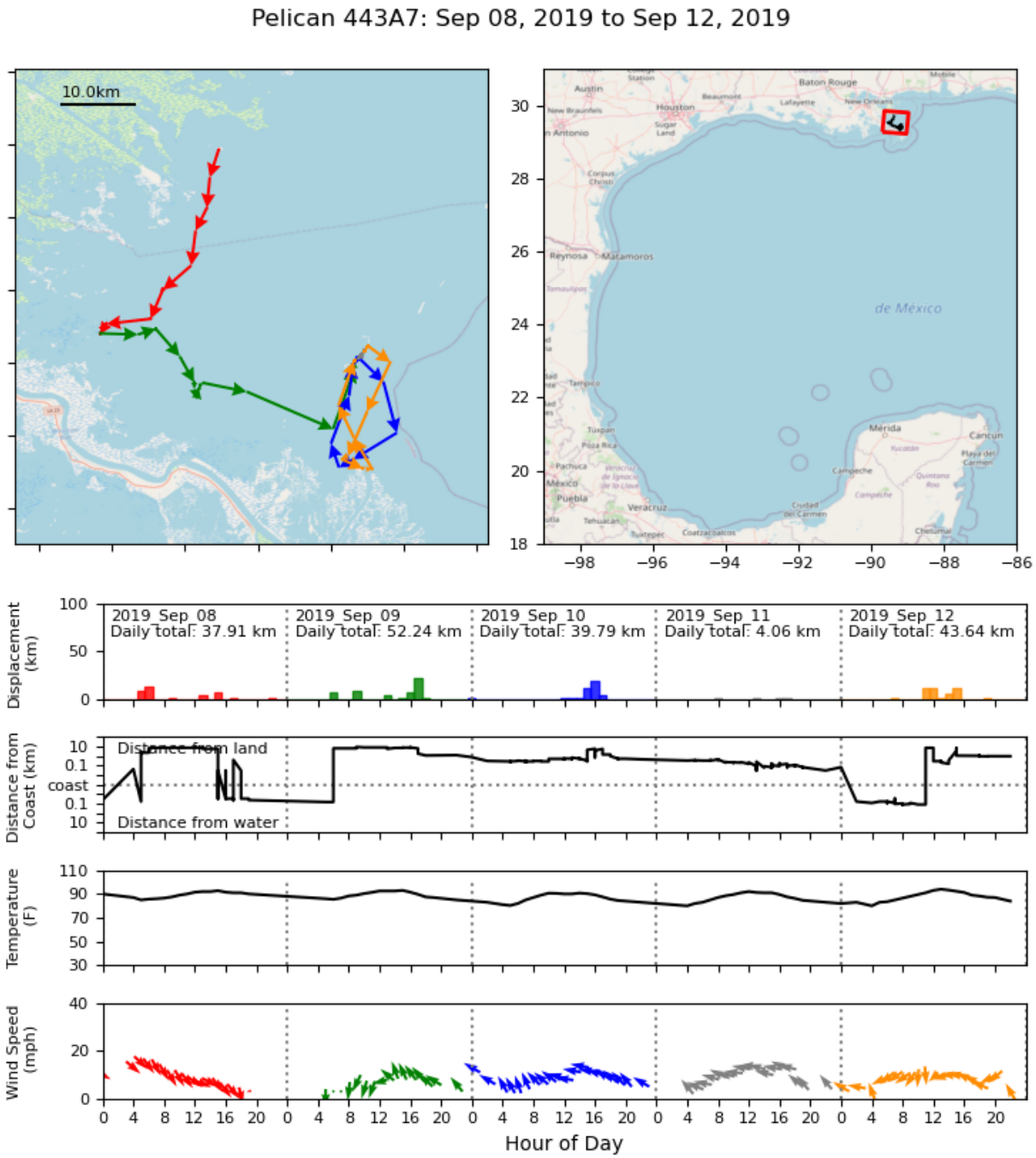

Figure 934 - Maps and graphs showing movements of 443A7 between 2019-09-08 and 2019-09-11 inclusive.

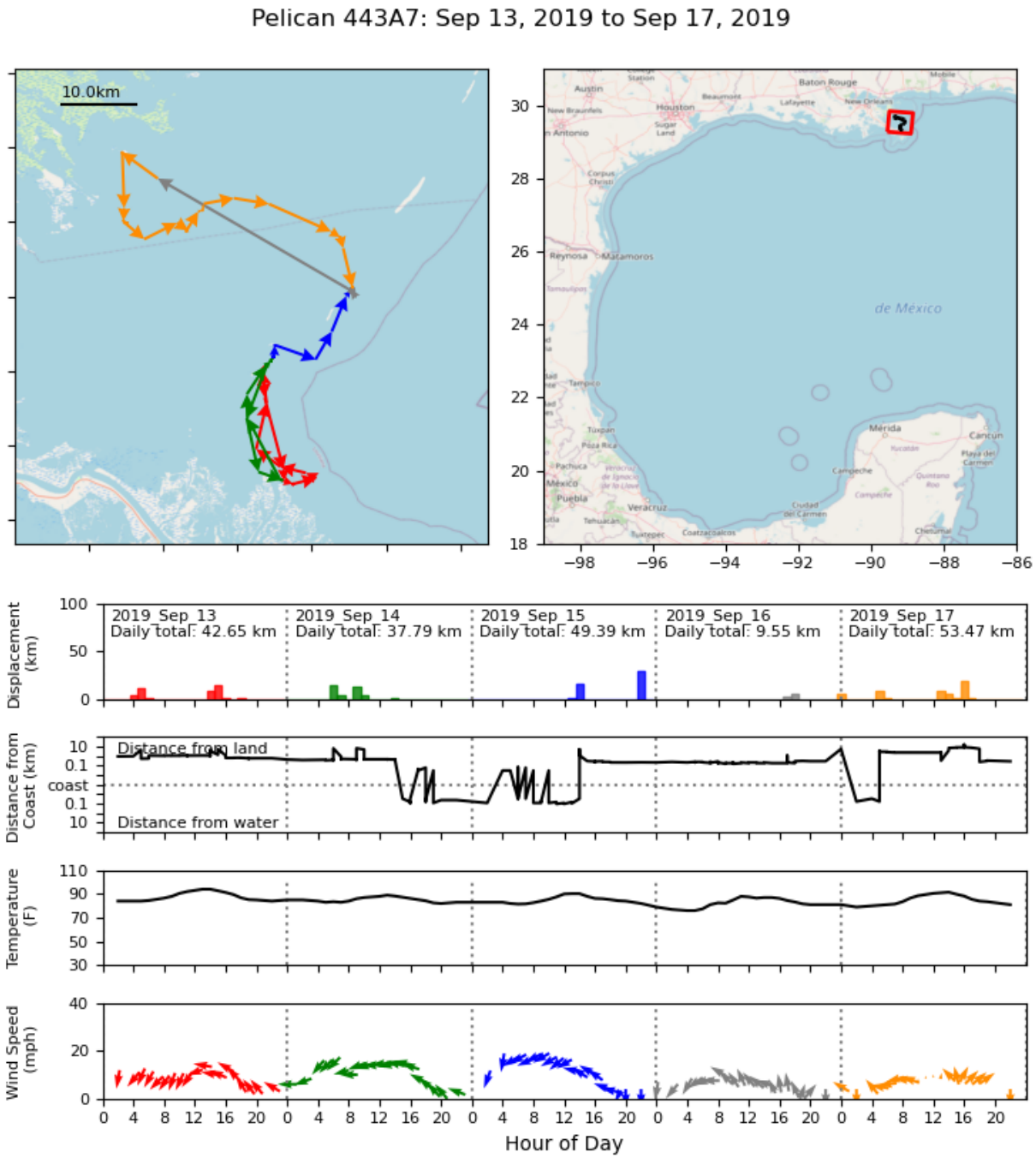

Figure 935 - Maps and graphs showing movements of 443A7 between 2019-09-13 and 2019-09-16 inclusive.

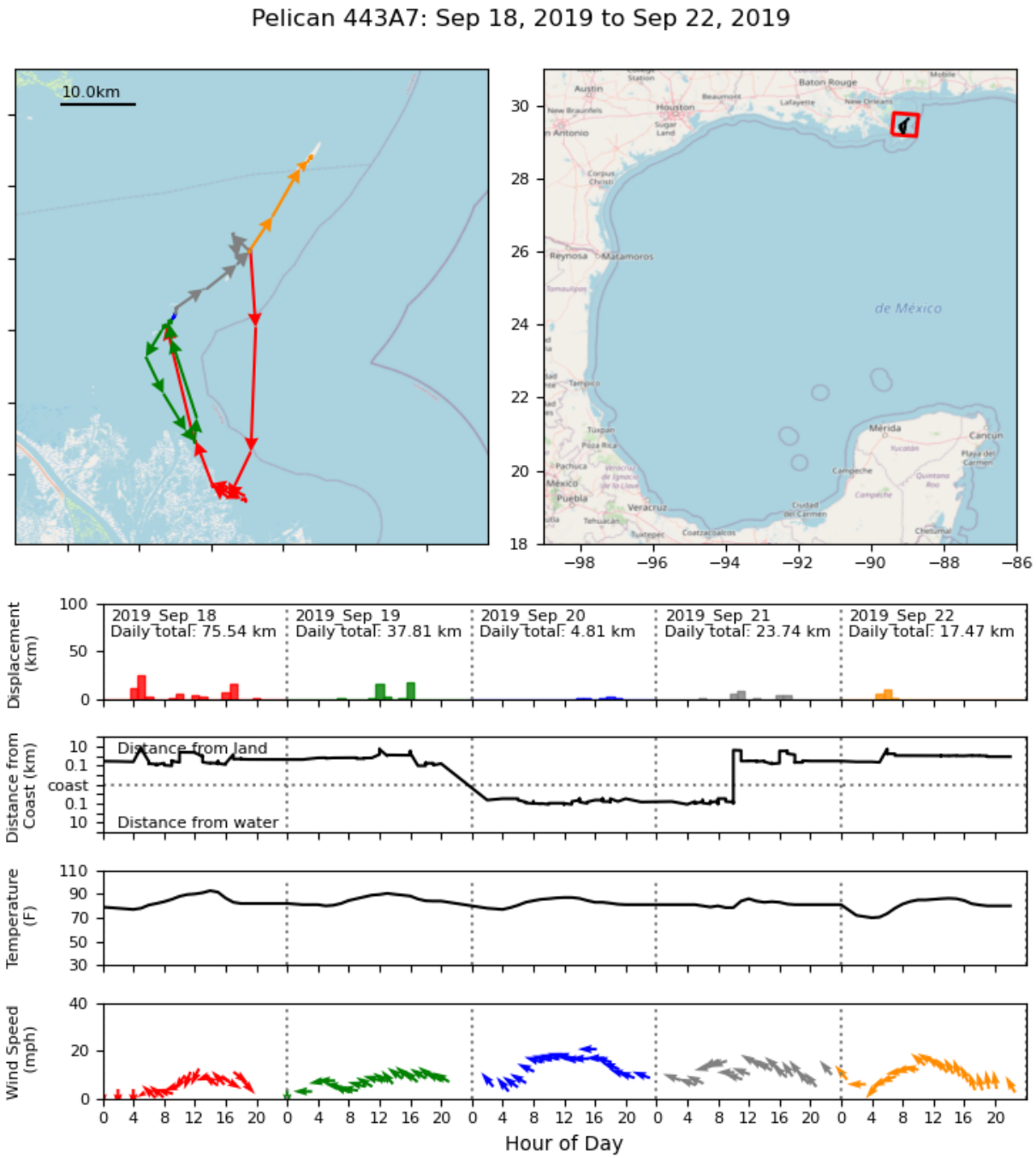

Figure 936 - Maps and graphs showing movements of 443A7 between 2019-09-18 and 2019-09-21 inclusive.

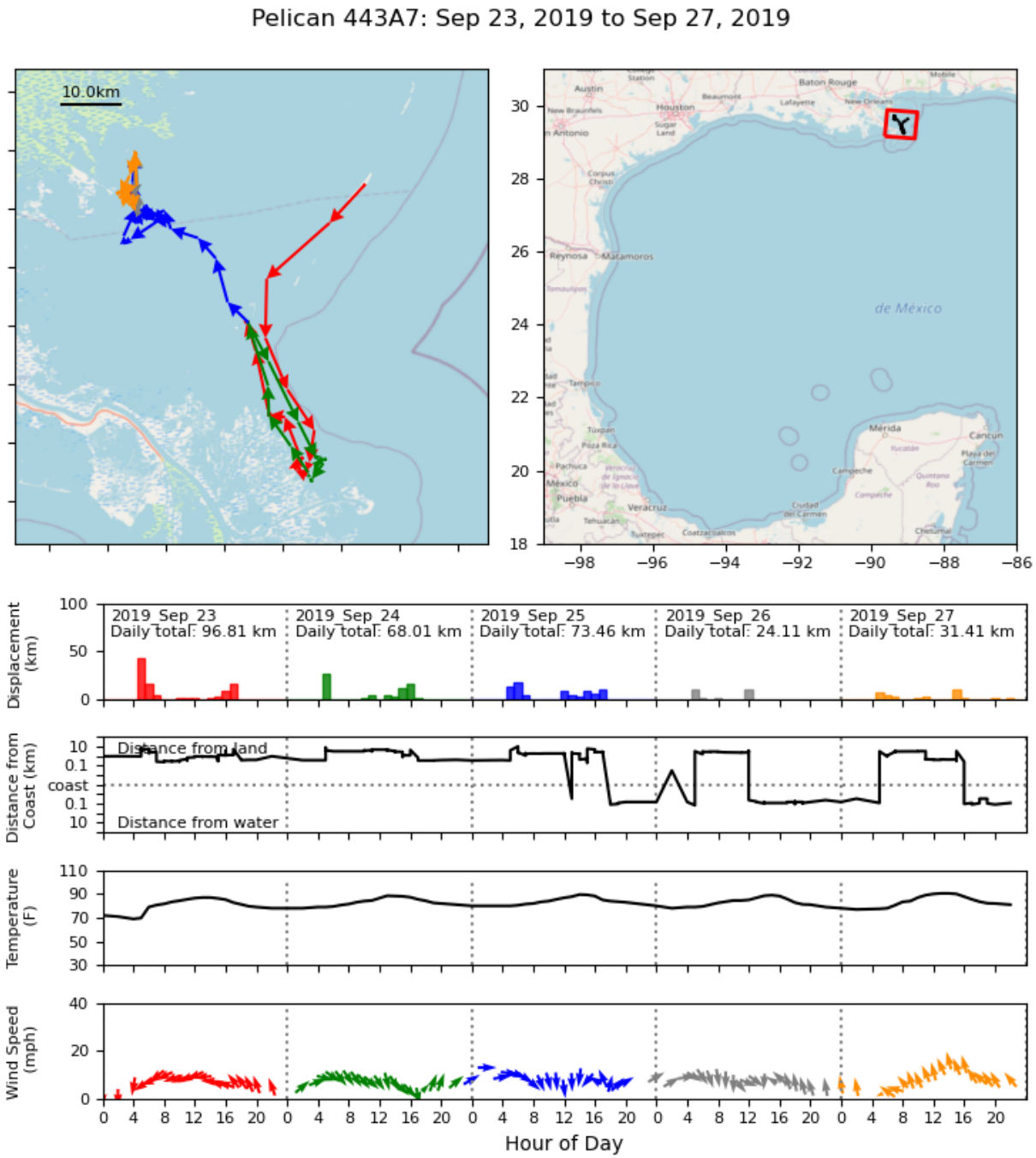

Figure 937 - Maps and graphs showing movements of 443A7 between 2019-09-23 and 2019-09-26 inclusive.

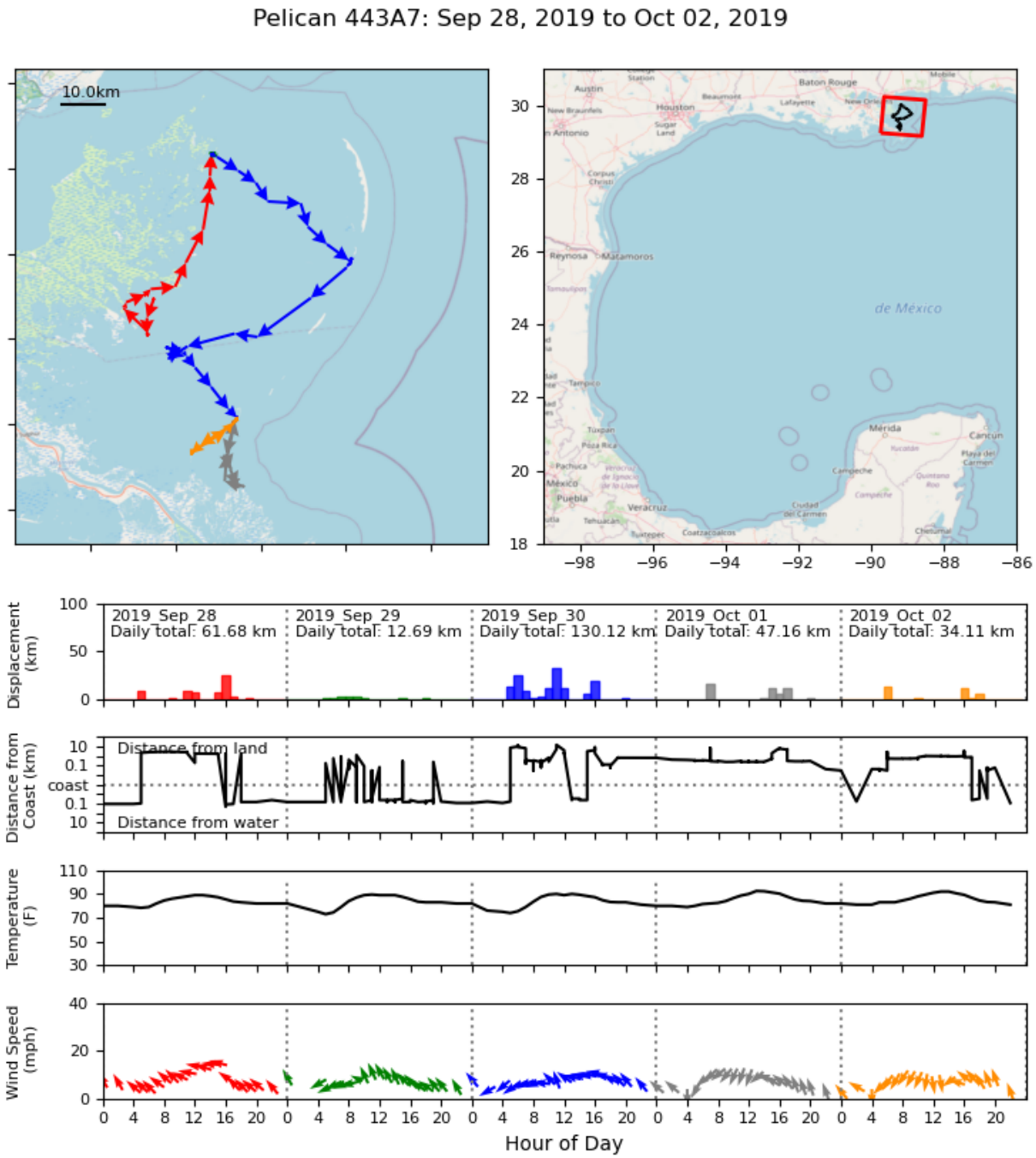

Figure 938 - Maps and graphs showing movements of 443A7 between 2019-09-28 and 2019-10-01 inclusive.

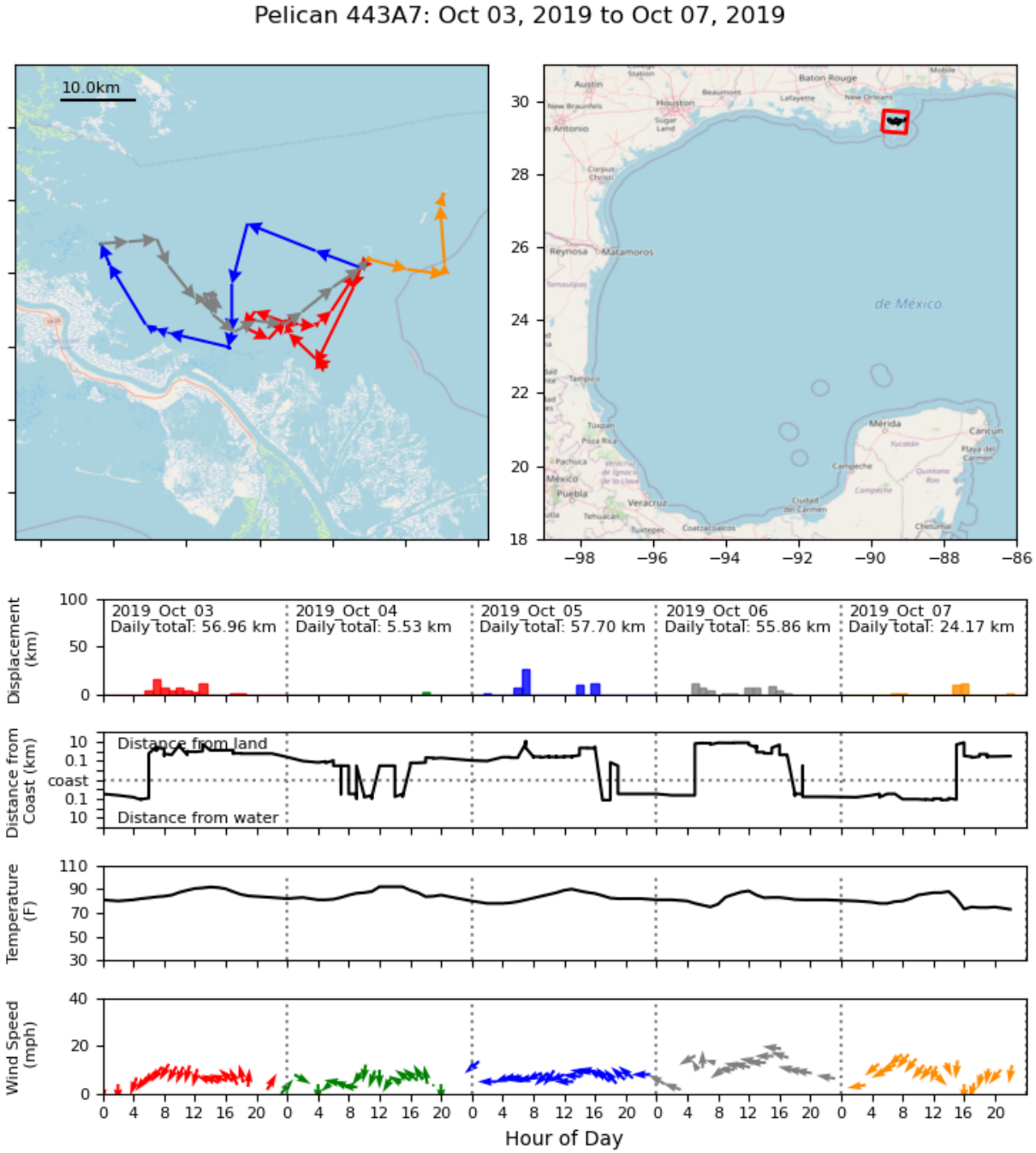

Figure 939 - Maps and graphs showing movements of 443A7 between 2019-10-03 and 2019-10-06 inclusive.

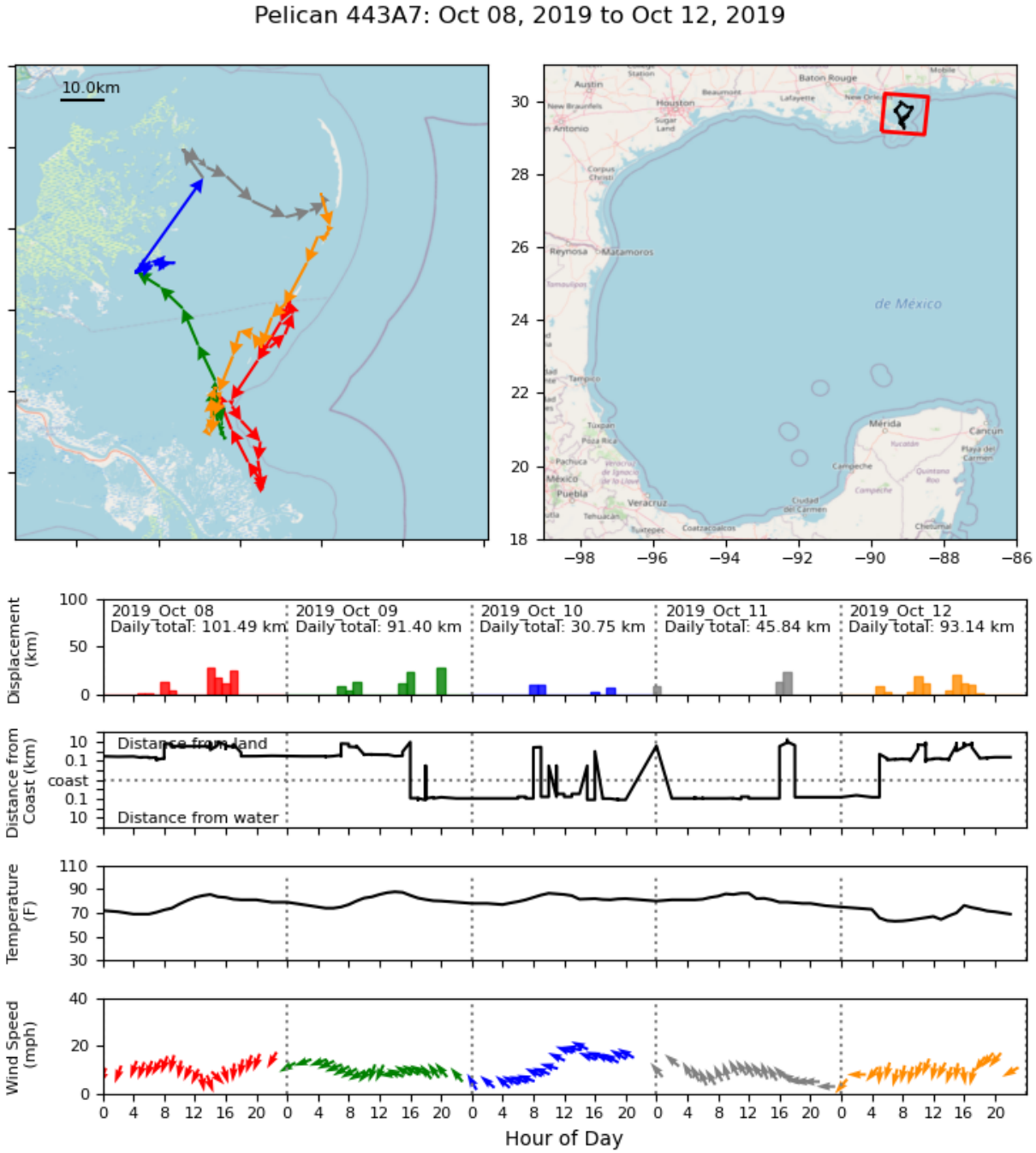

Figure 940 - Maps and graphs showing movements of 443A7 between 2019-10-08 and 2019-10-11 inclusive.

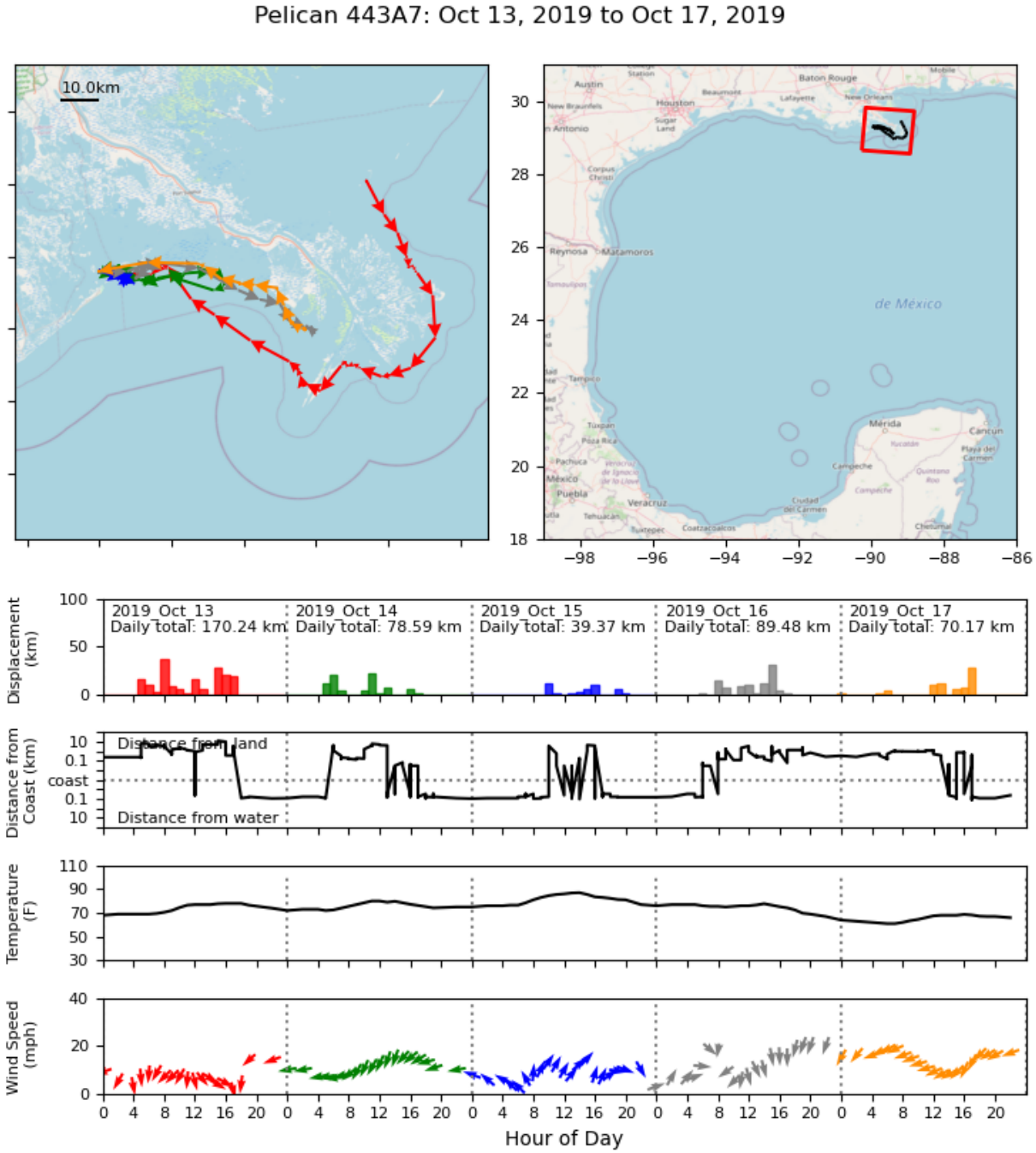

Figure 941 - Maps and graphs showing movements of 443A7 between 2019-10-13 and 2019-10-16 inclusive.

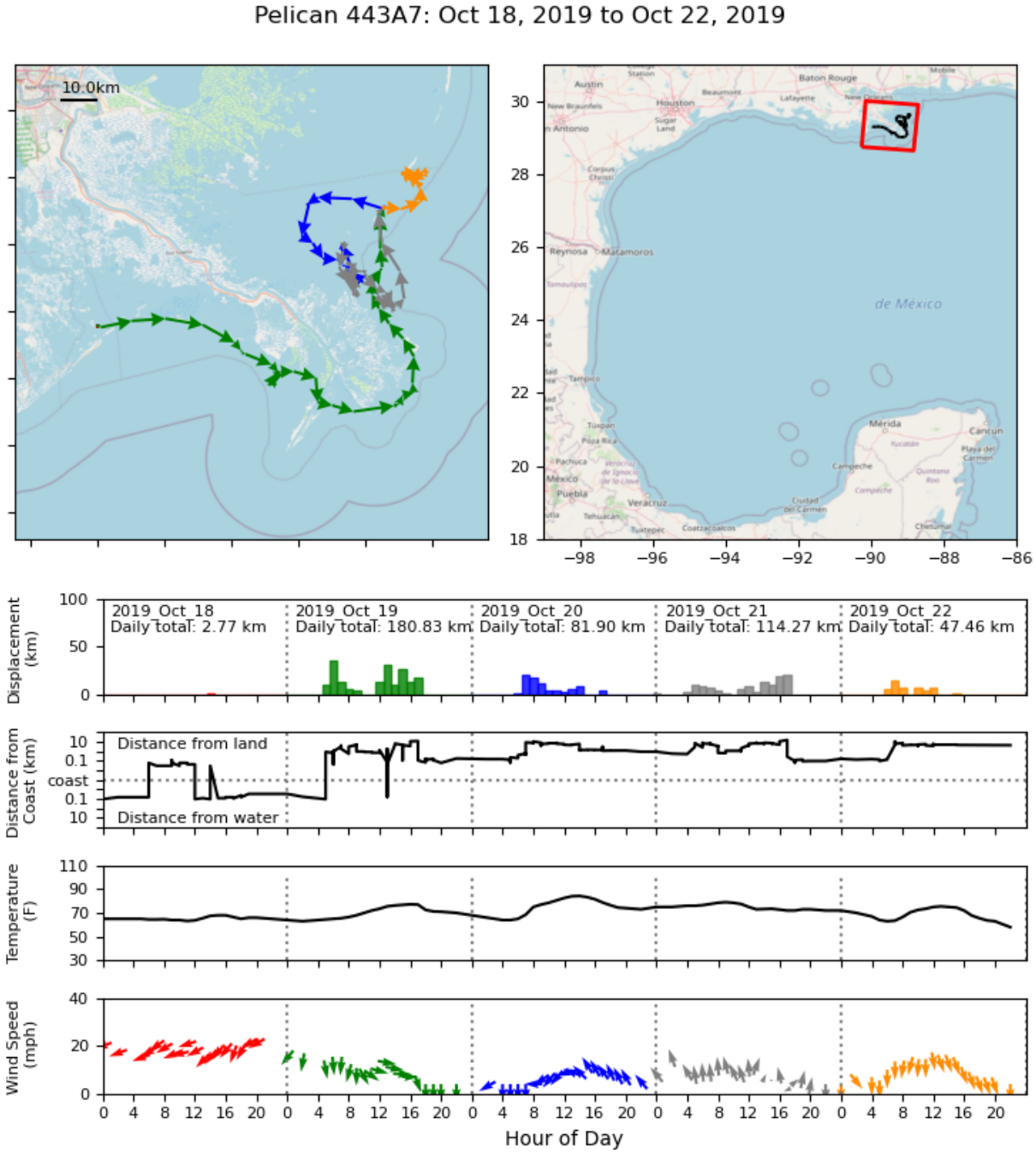

Figure 942 - Maps and graphs showing movements of 443A7 between 2019-10-18 and 2019-10-21 inclusive.

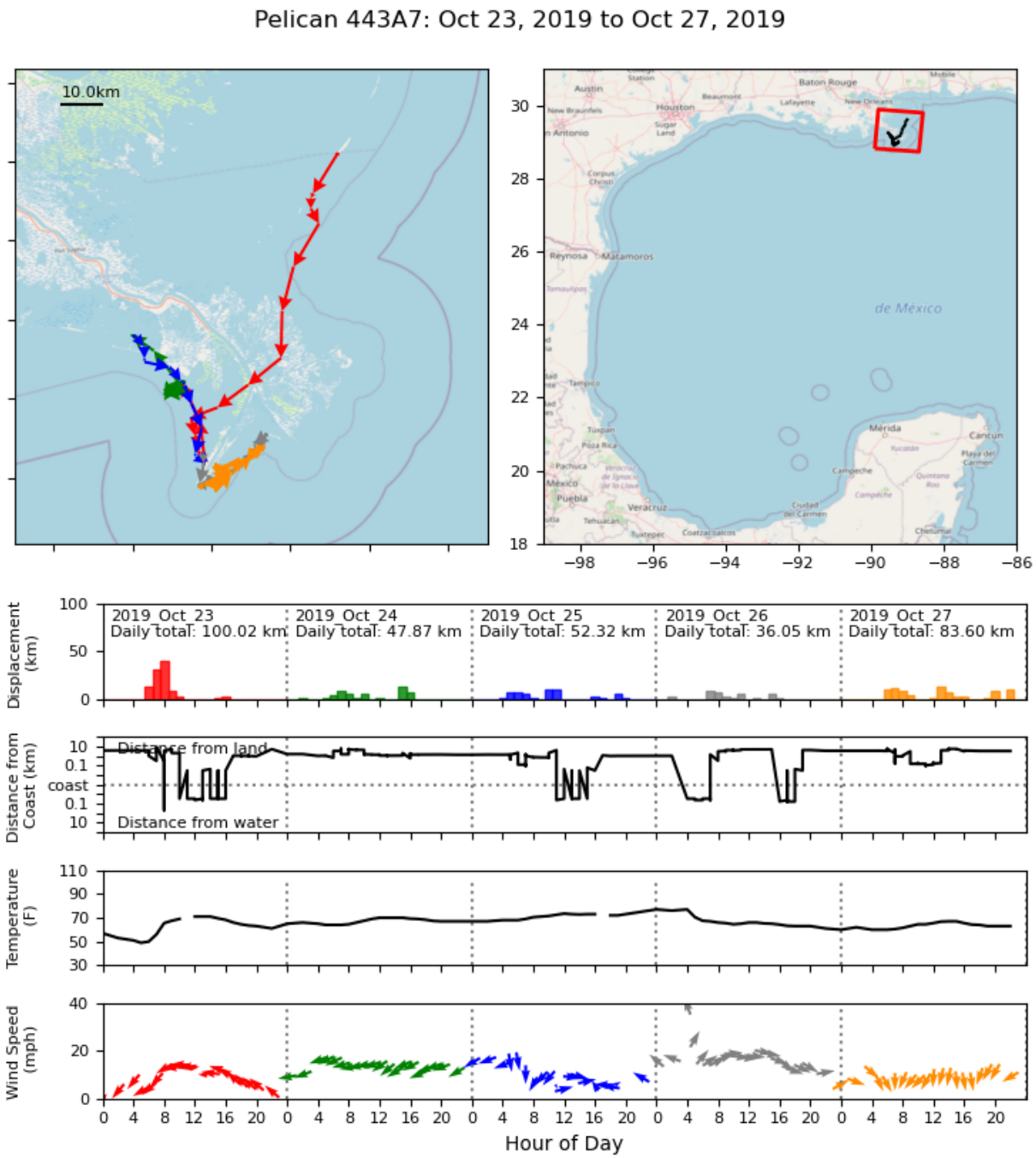

Figure 943 - Maps and graphs showing movements of 443A7 between 2019-10-23 and 2019-10-26 inclusive.

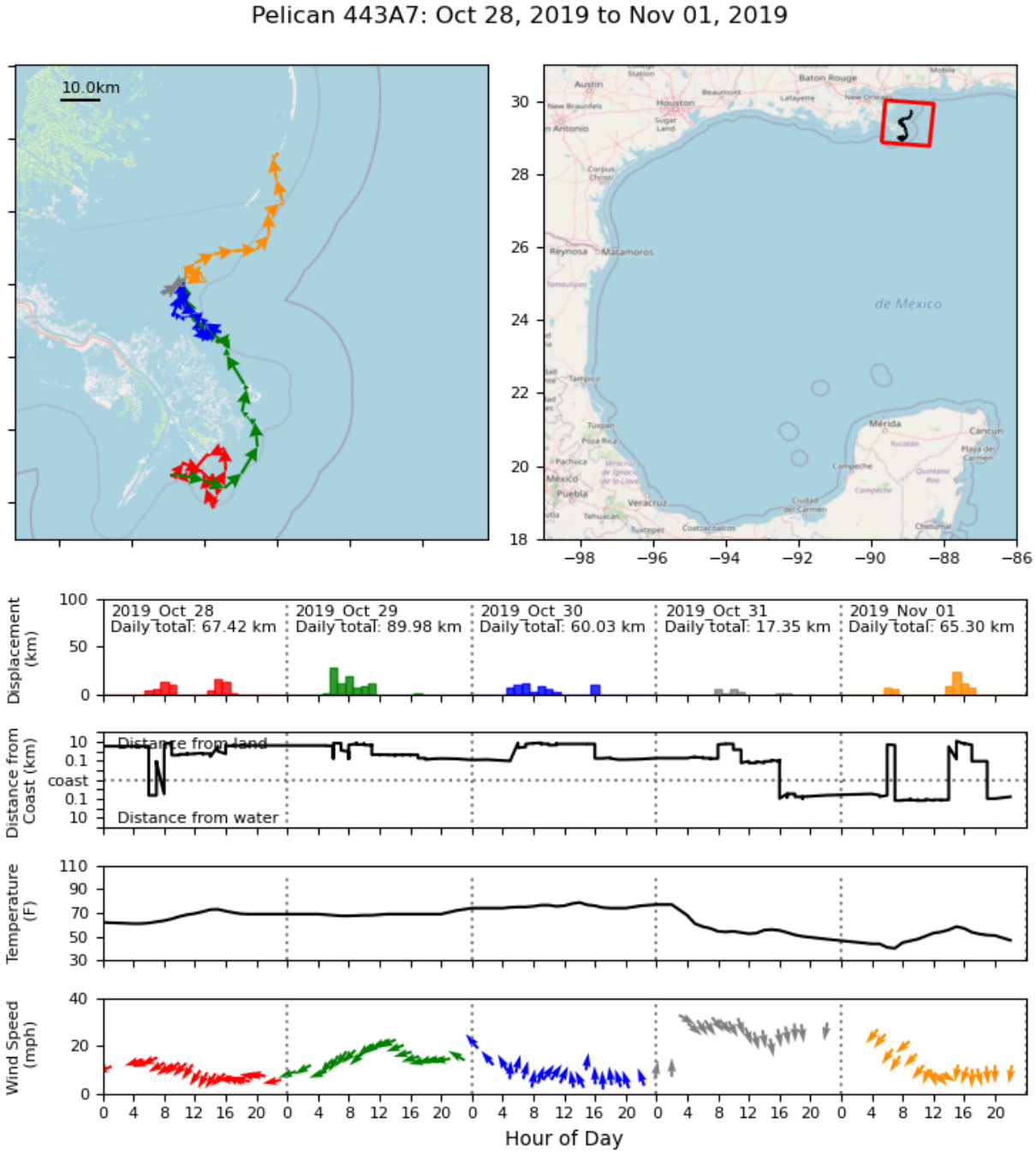

Figure 944 - Maps and graphs showing movements of 443A7 between 2019-10-28 and 2019-10-31 inclusive.

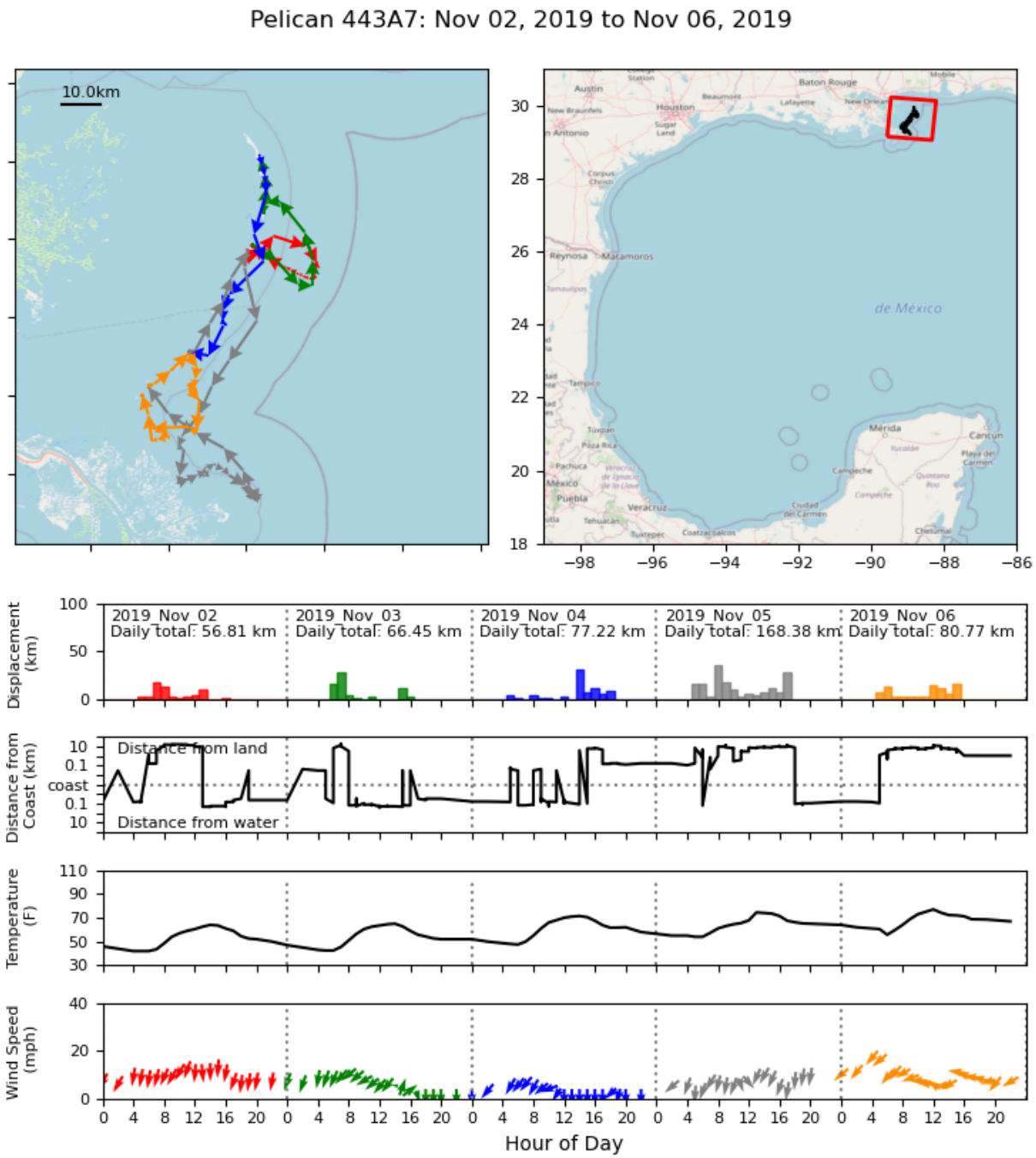

Figure 945 - Maps and graphs showing movements of 443A7 between 2019-11-02 and 2019-11-05 inclusive.

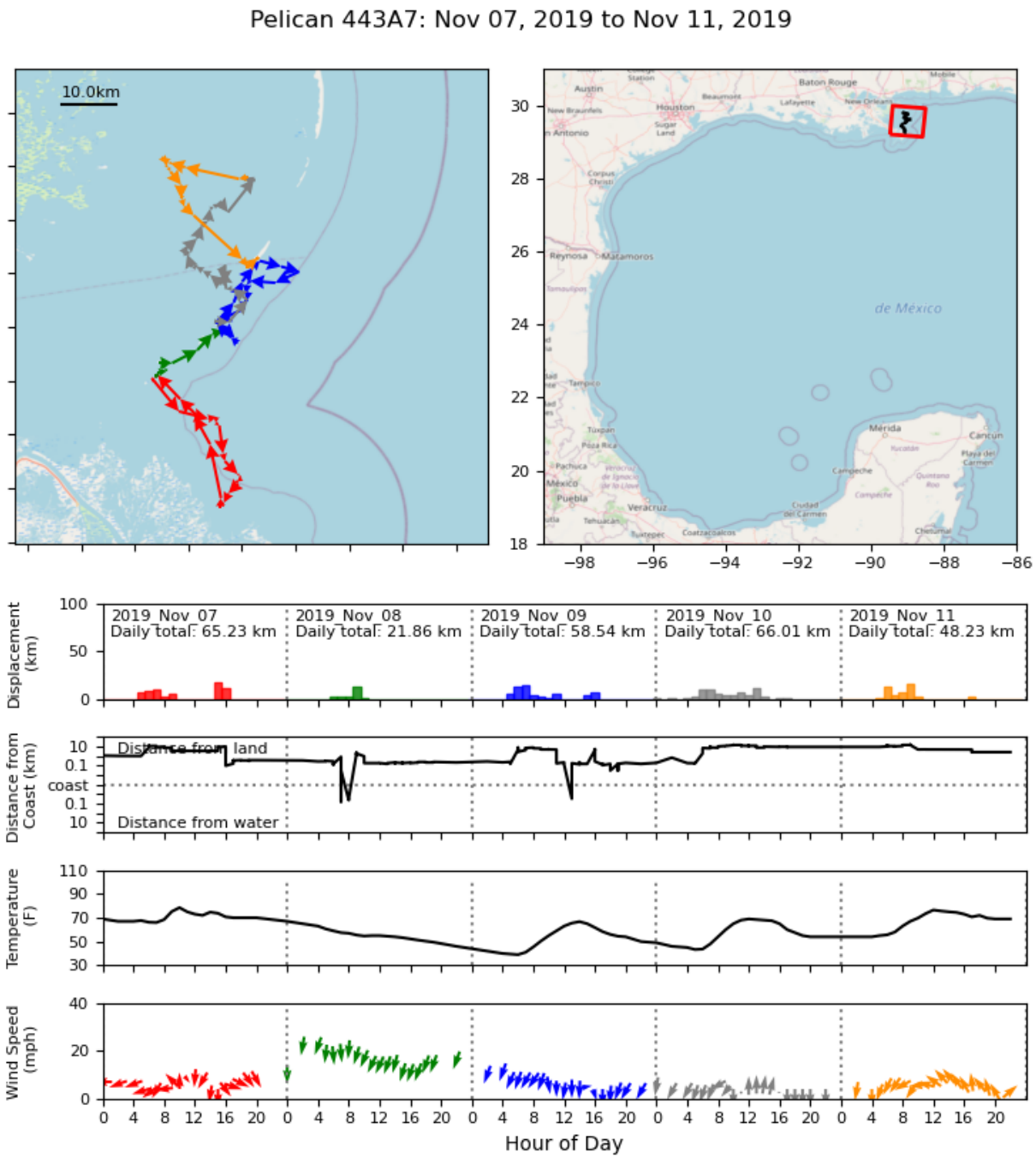

Figure 946 - Maps and graphs showing movements of 443A7 between 2019-11-07 and 2019-11-10 inclusive.

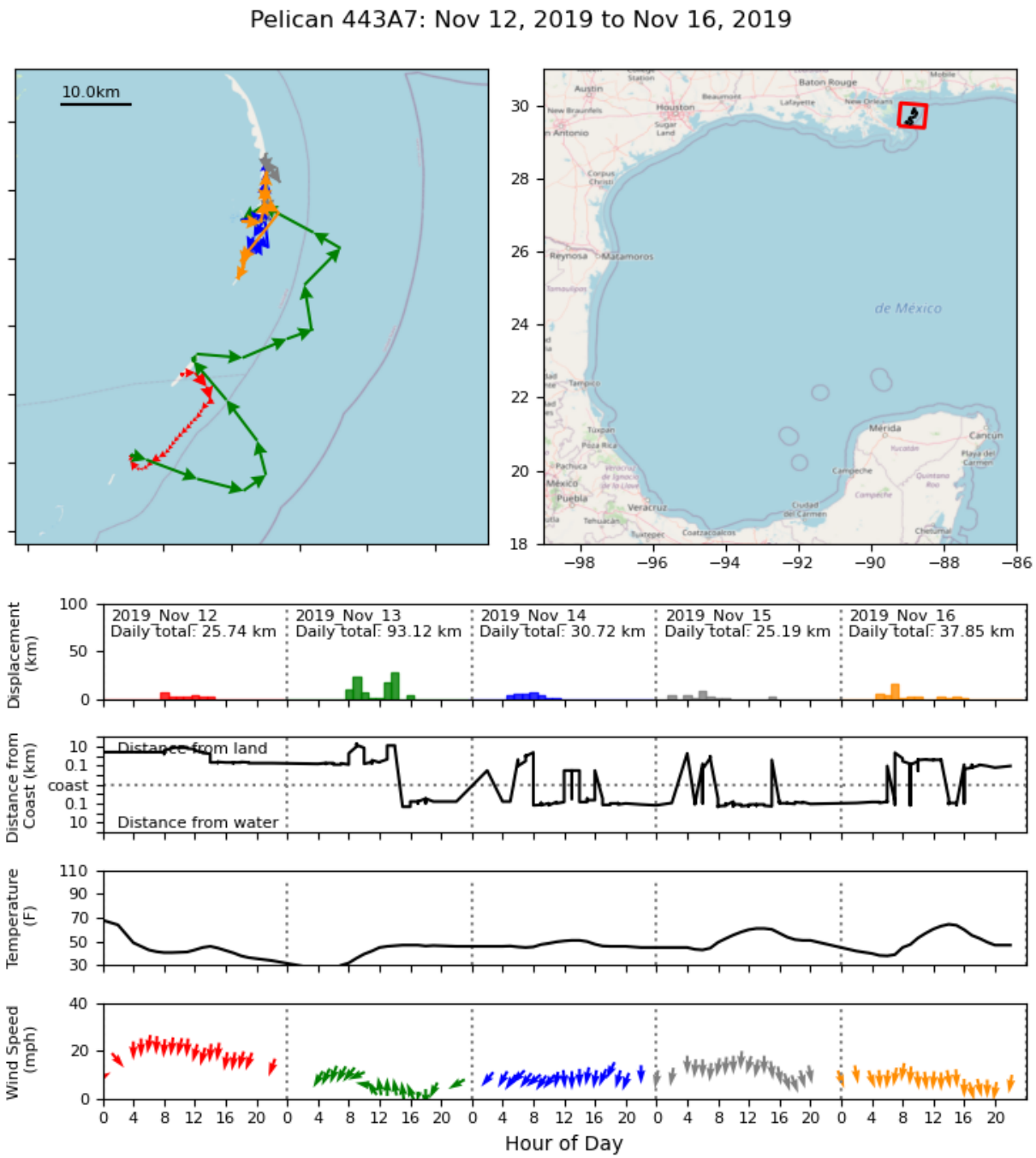

Figure 947 - Maps and graphs showing movements of 443A7 between 2019-11-12 and 2019-11-15 inclusive.

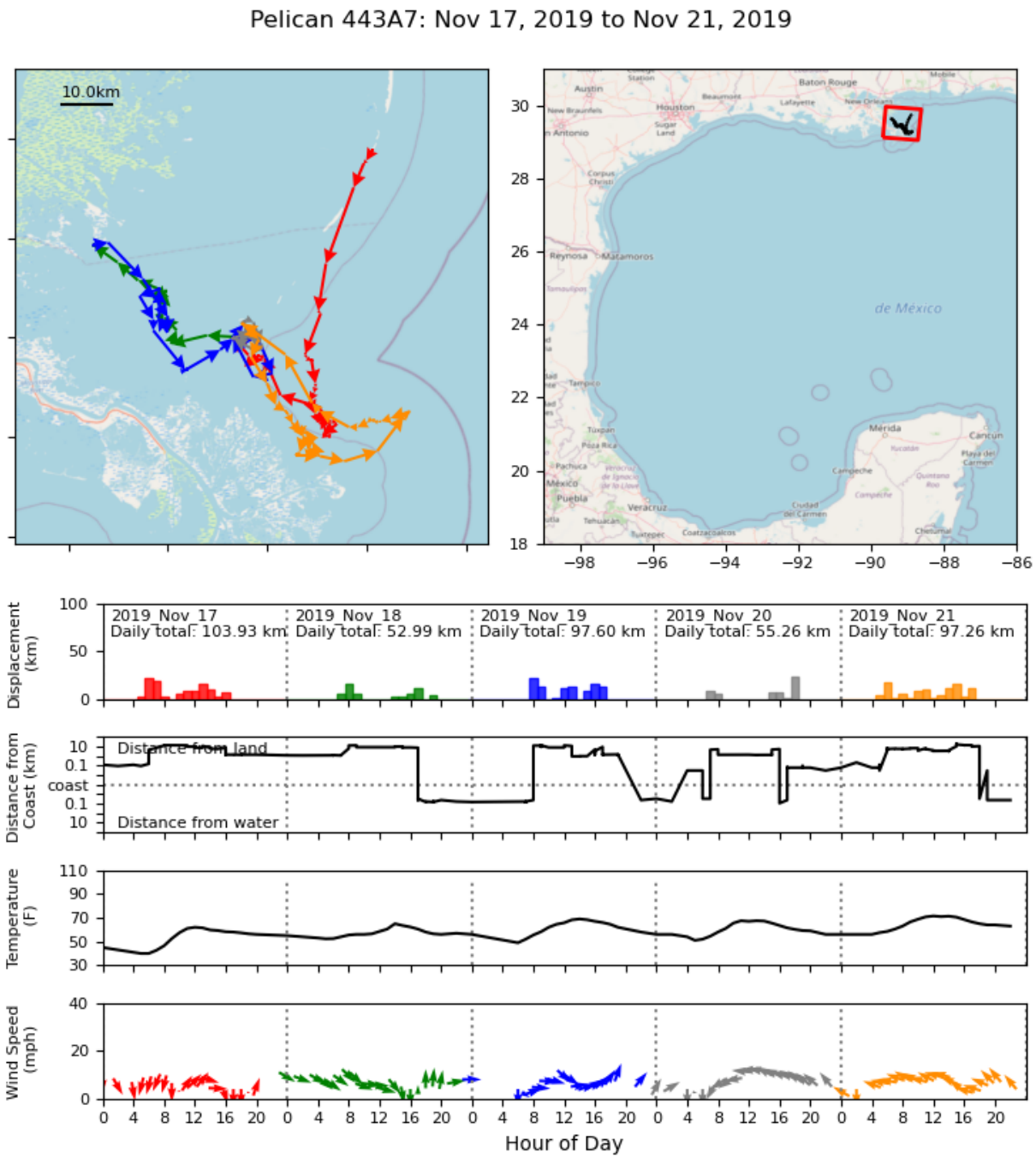

Figure 948 - Maps and graphs showing movements of 443A7 between 2019-11-17 and 2019-11-20 inclusive.

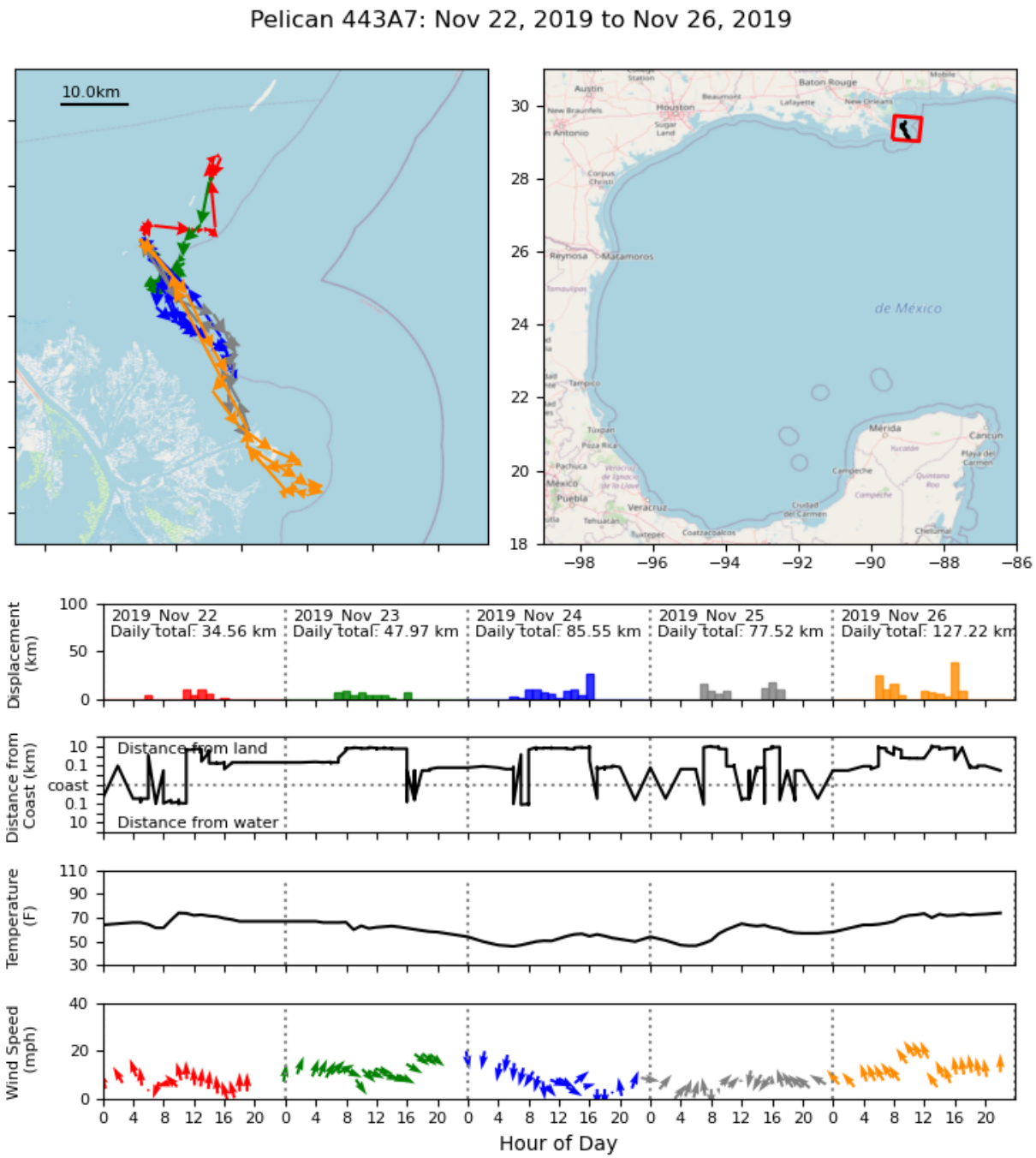

Figure 949 - Maps and graphs showing movements of 443A7 between 2019-11-22 and 2019-11-25 inclusive.

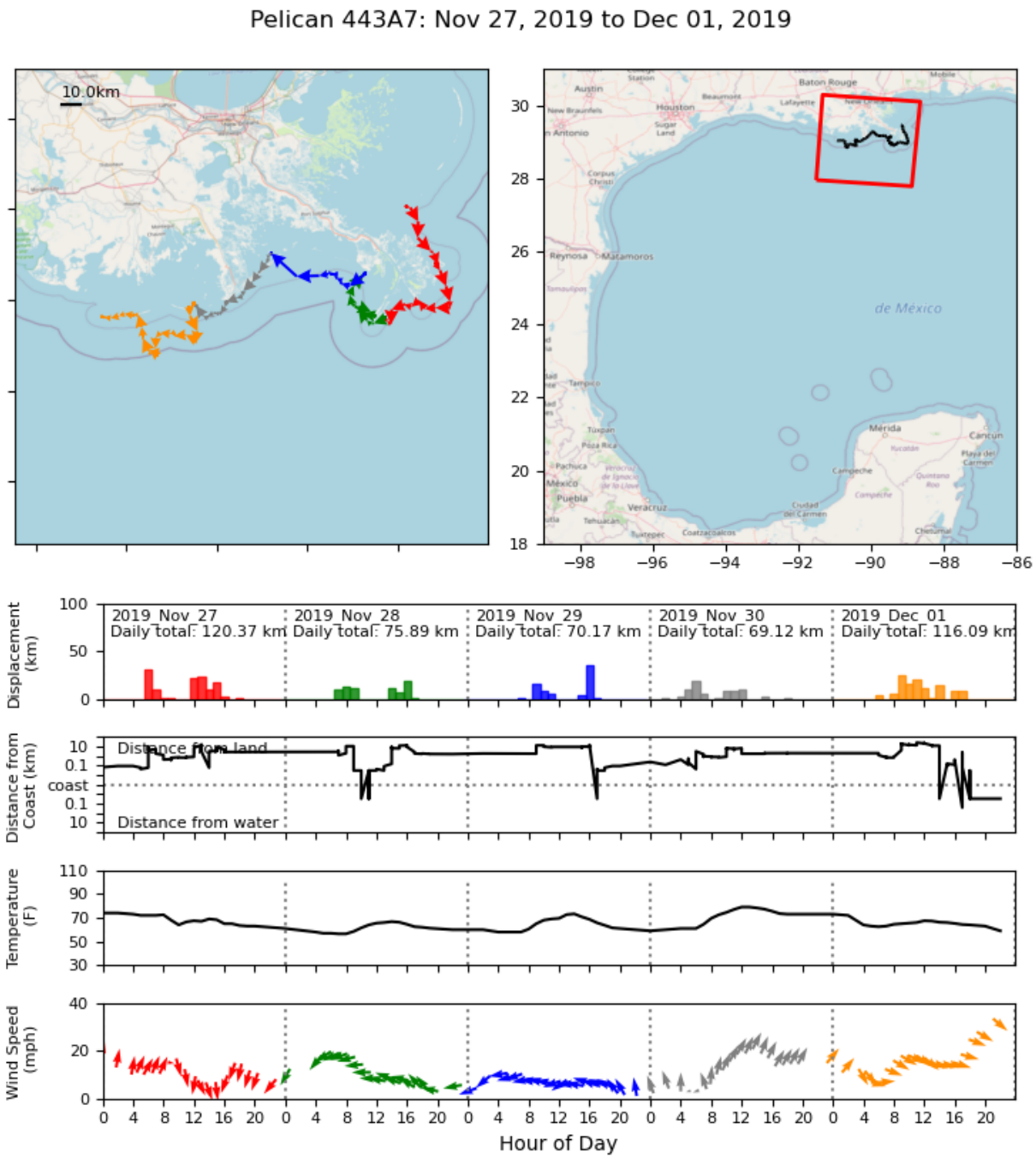

Figure 950 - Maps and graphs showing movements of 443A7 between 2019-11-27 and 2019-11-30 inclusive.

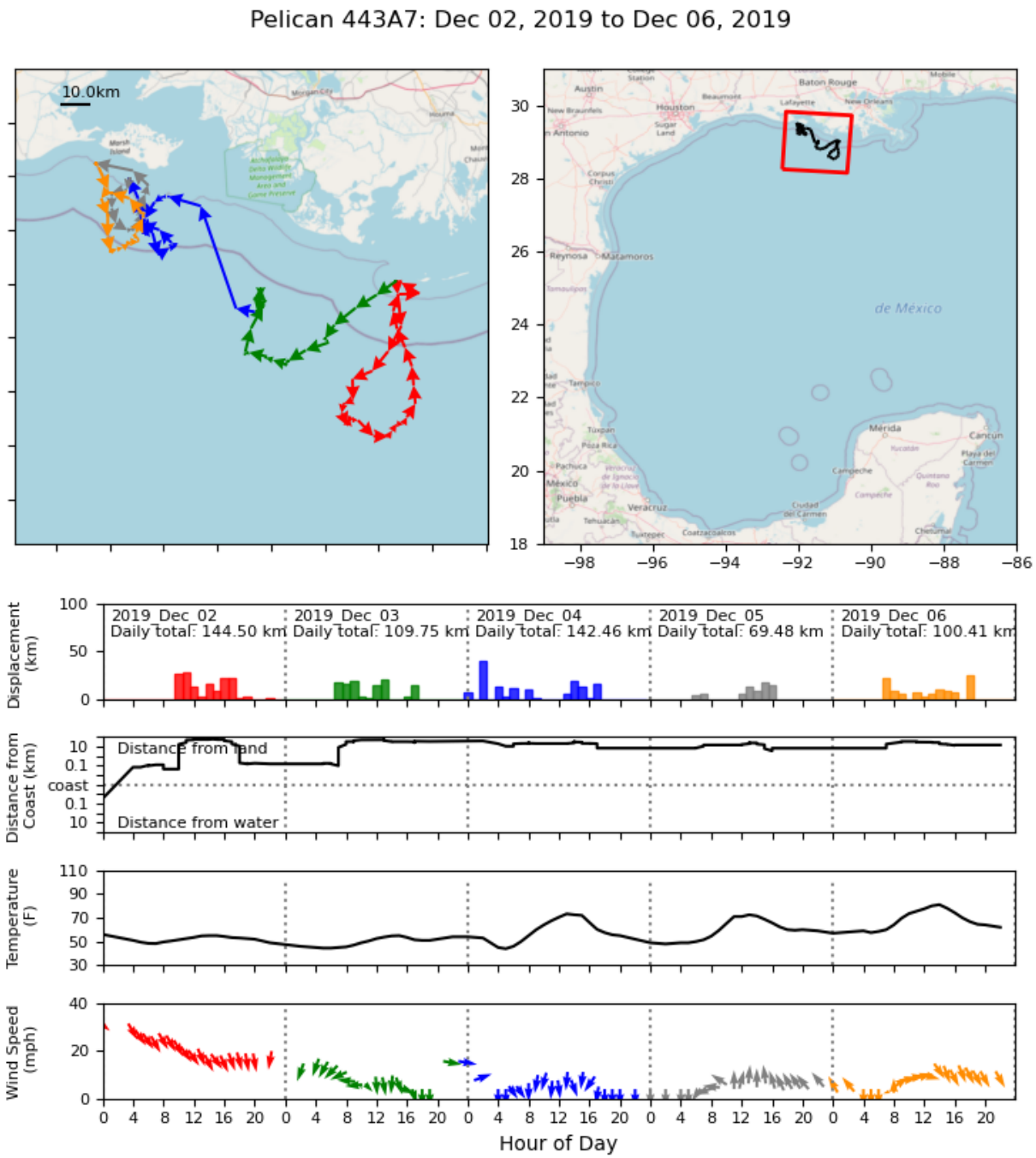

Figure 951 - Maps and graphs showing movements of 443A7 between 2019-12-02 and 2019-12-05 inclusive.

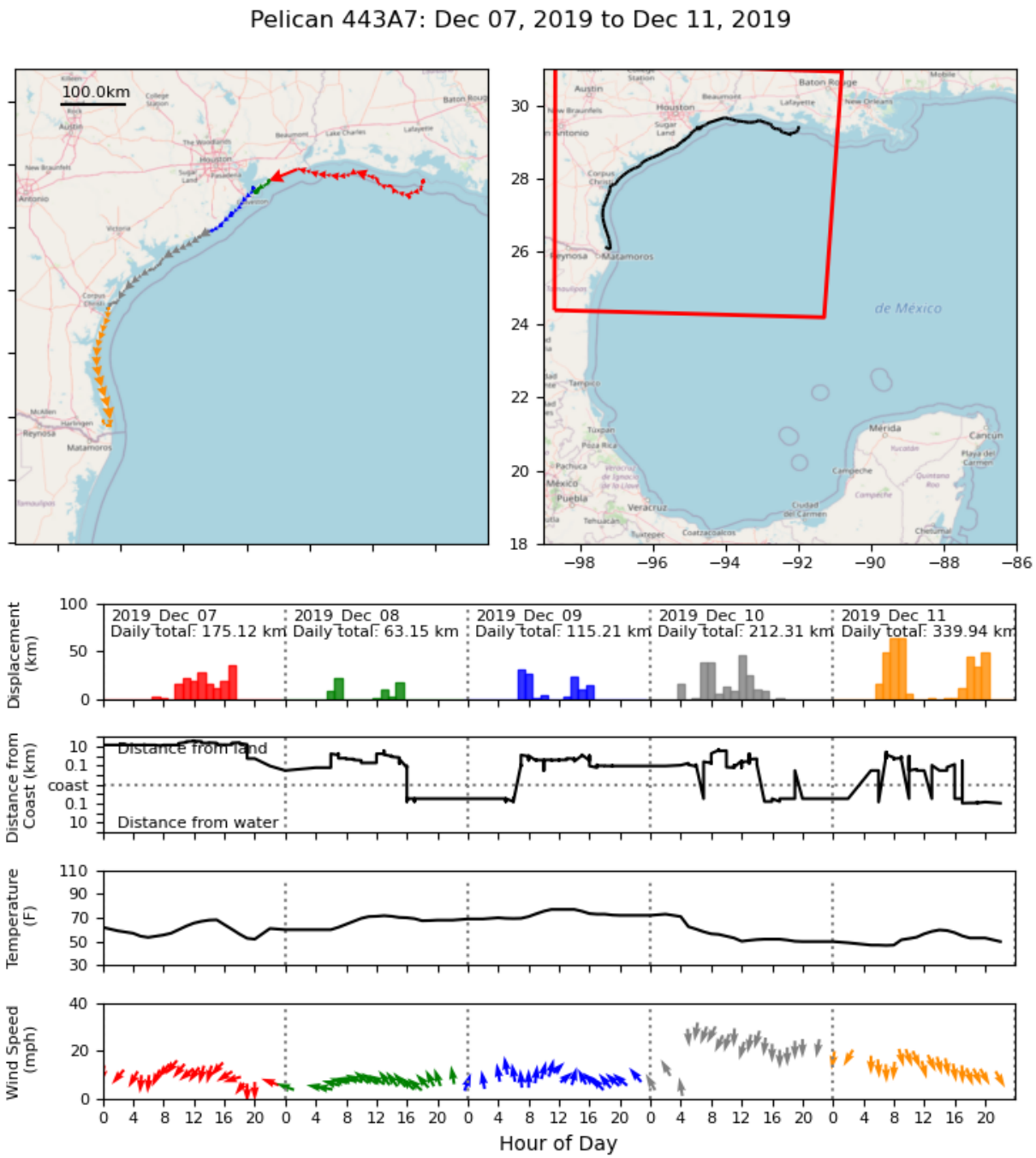

Figure 952 - Maps and graphs showing movements of 443A7 between 2019-12-07 and 2019-12-10 inclusive.

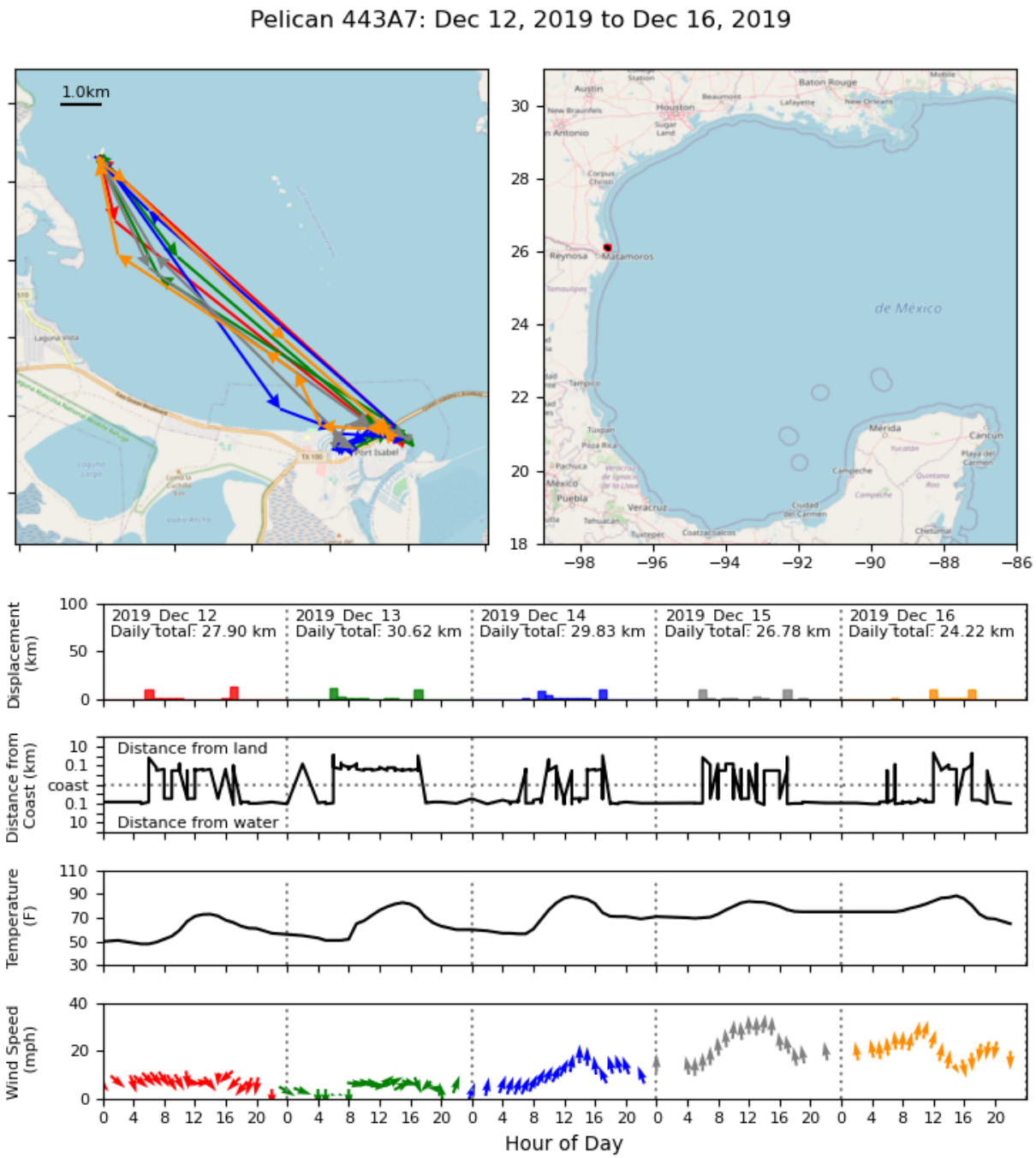

Figure 953 - Maps and graphs showing movements of 443A7 between 2019-12-12 and 2019-12-15 inclusive.

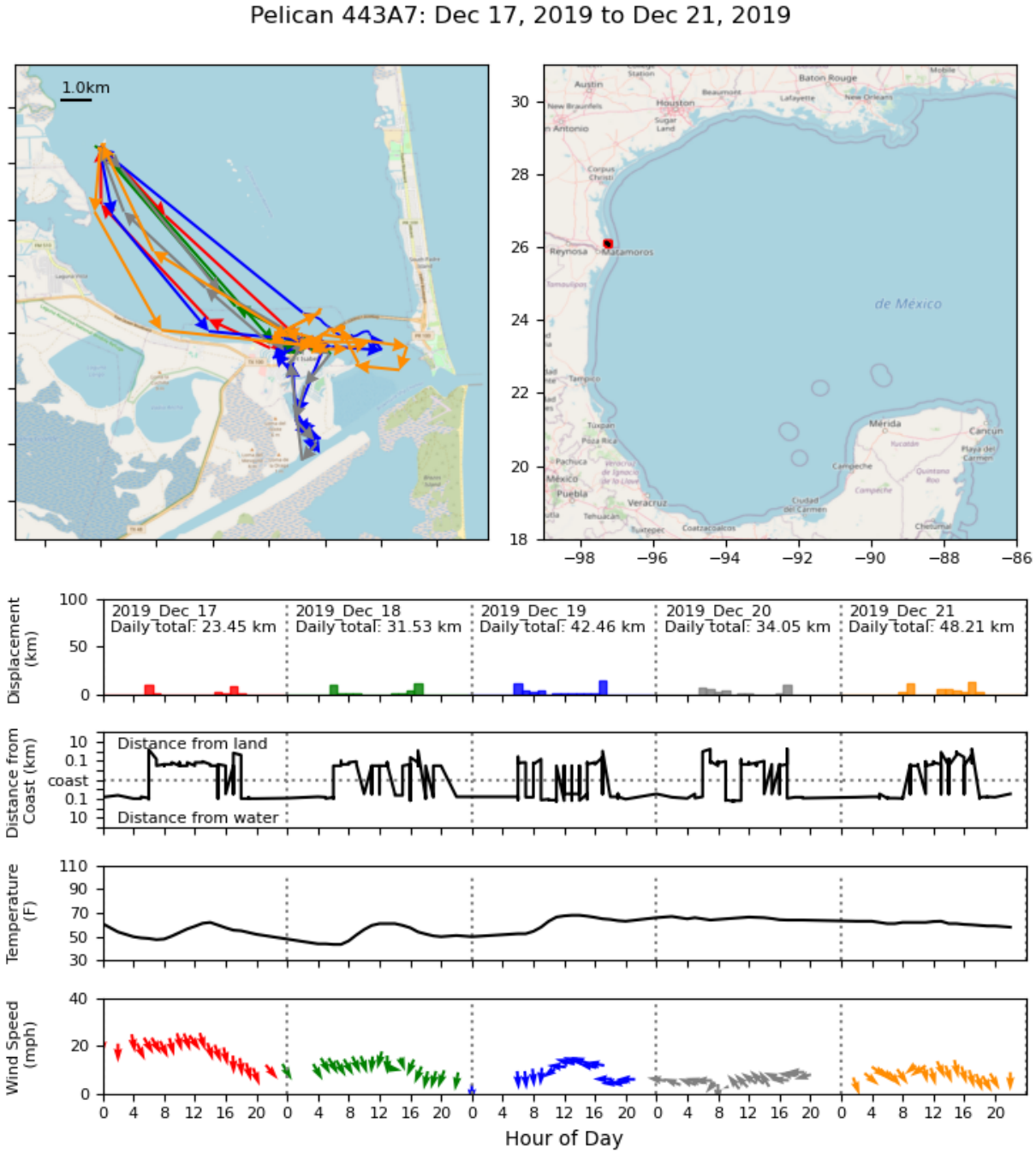

Figure 954 - Maps and graphs showing movements of 443A7 between 2019-12-17 and 2019-12-20 inclusive.

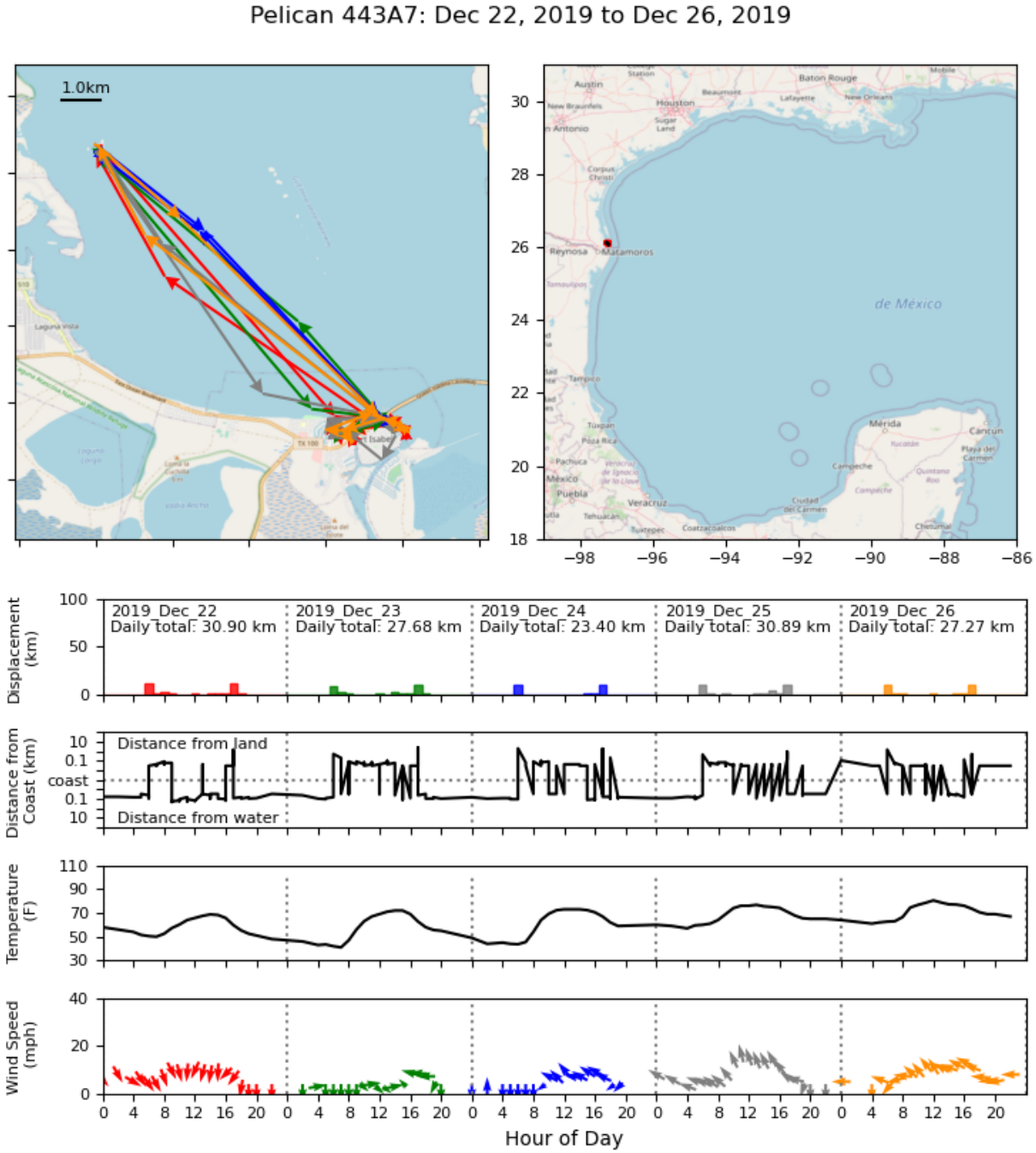

Figure 955 - Maps and graphs showing movements of 443A7 between 2019-12-22 and 2019-12-25 inclusive.

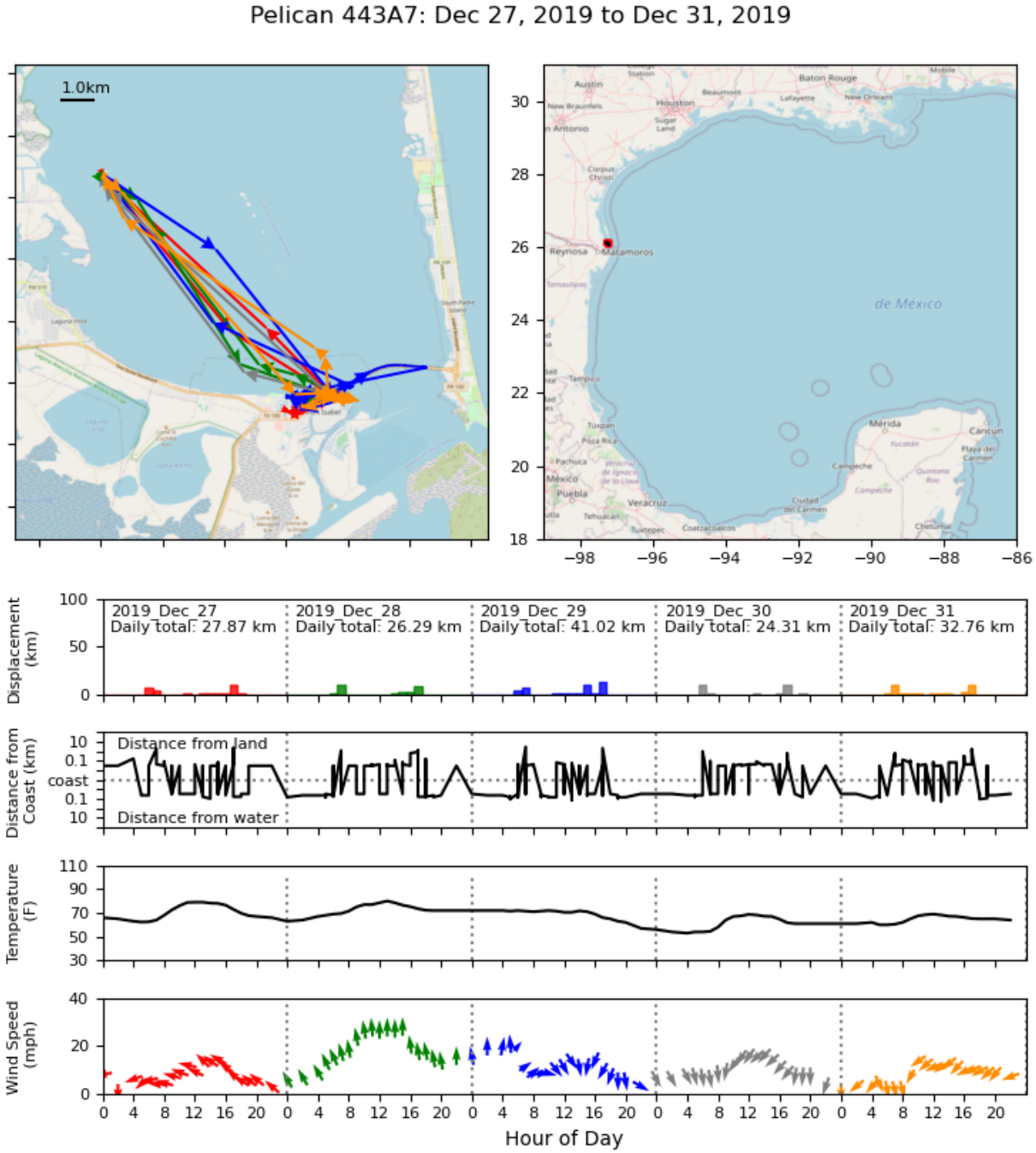

Figure 956 - Maps and graphs showing movements of 443A7 between 2019-12-27 and 2019-12-30 inclusive.

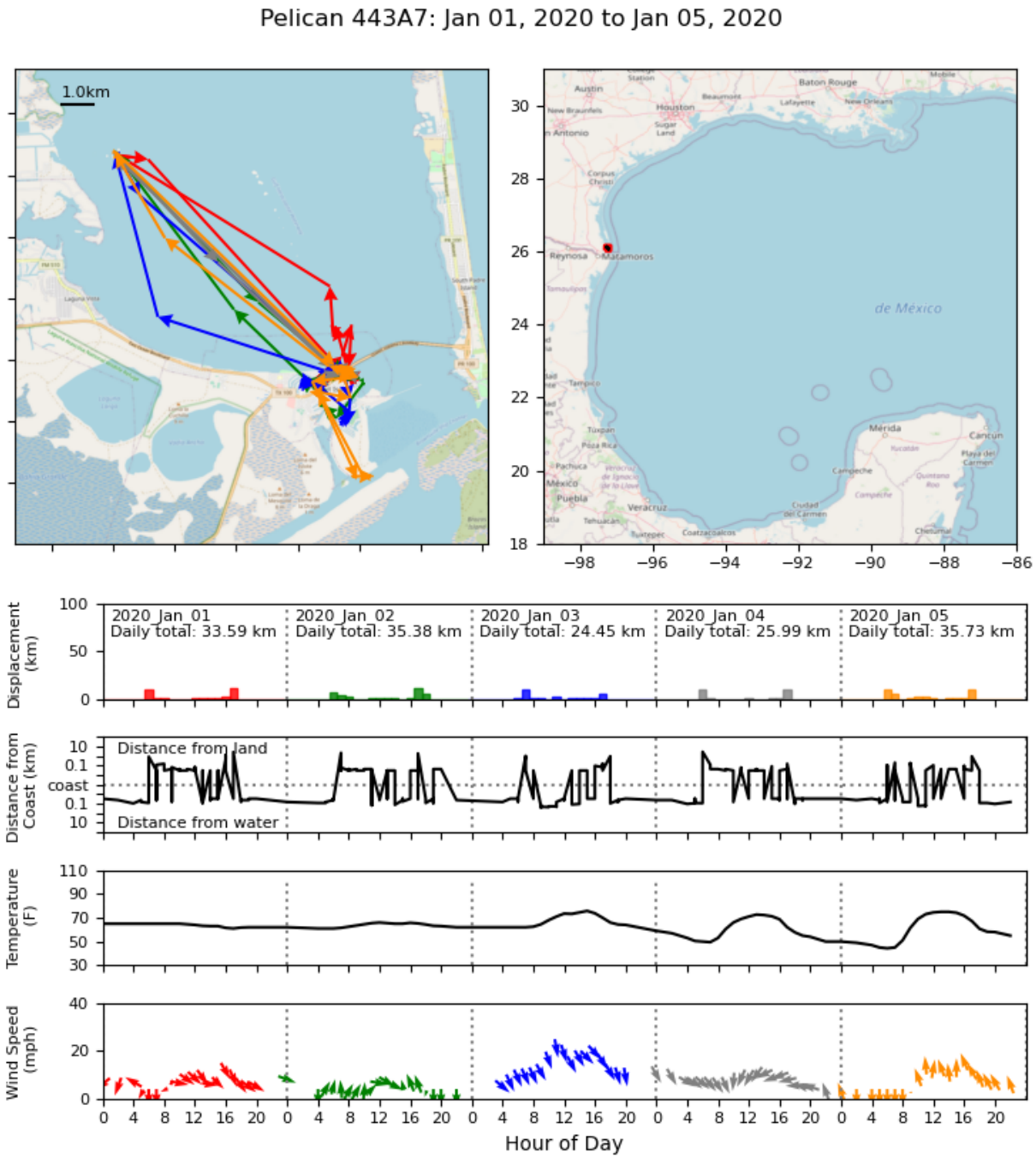

Figure 957 - Maps and graphs showing movements of 443A7 between 2020-01-01 and 2020-01-04 inclusive.

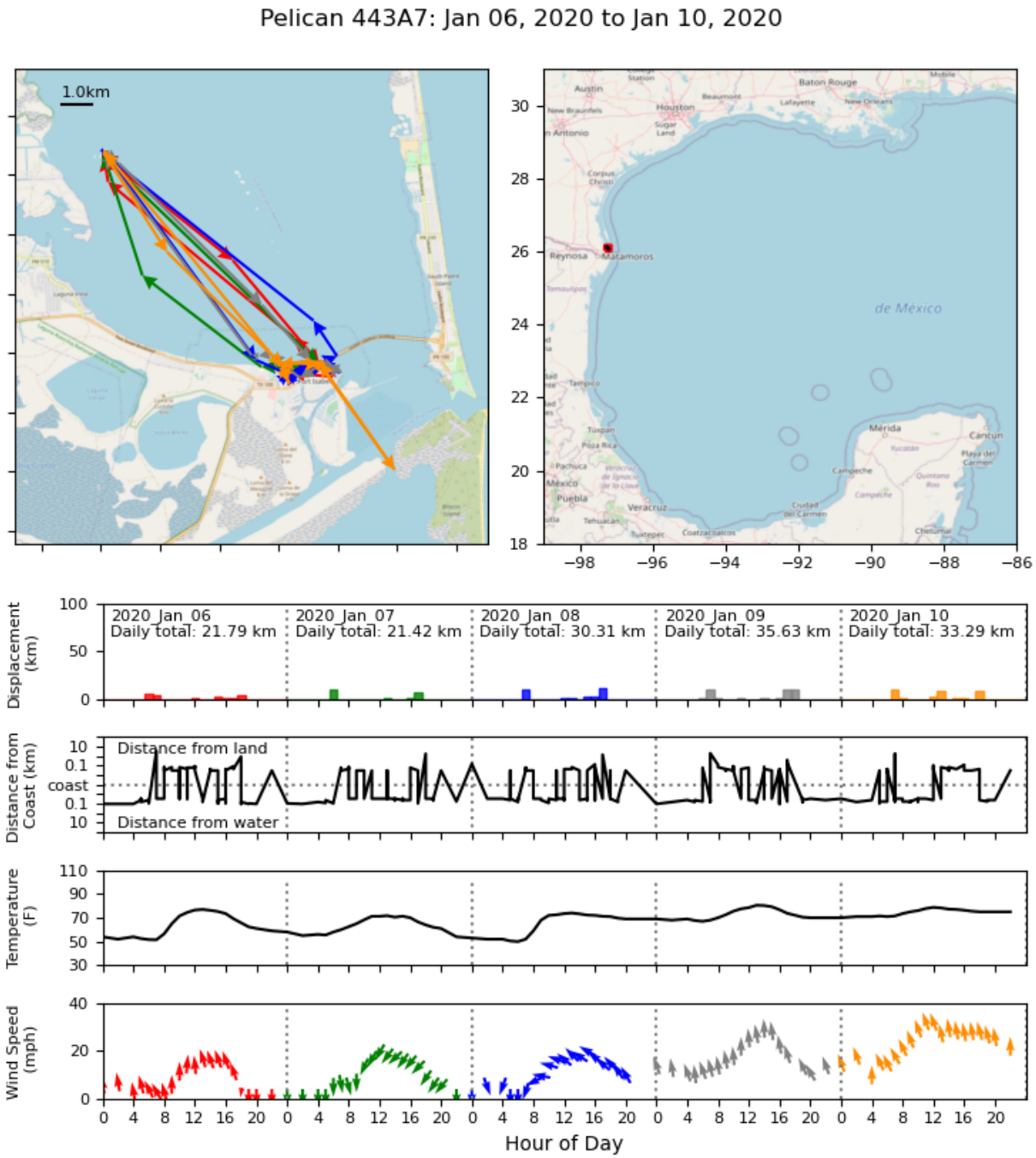

Figure 958 - Maps and graphs showing movements of 443A7 between 2020-01-06 and 2020-01-09 inclusive.

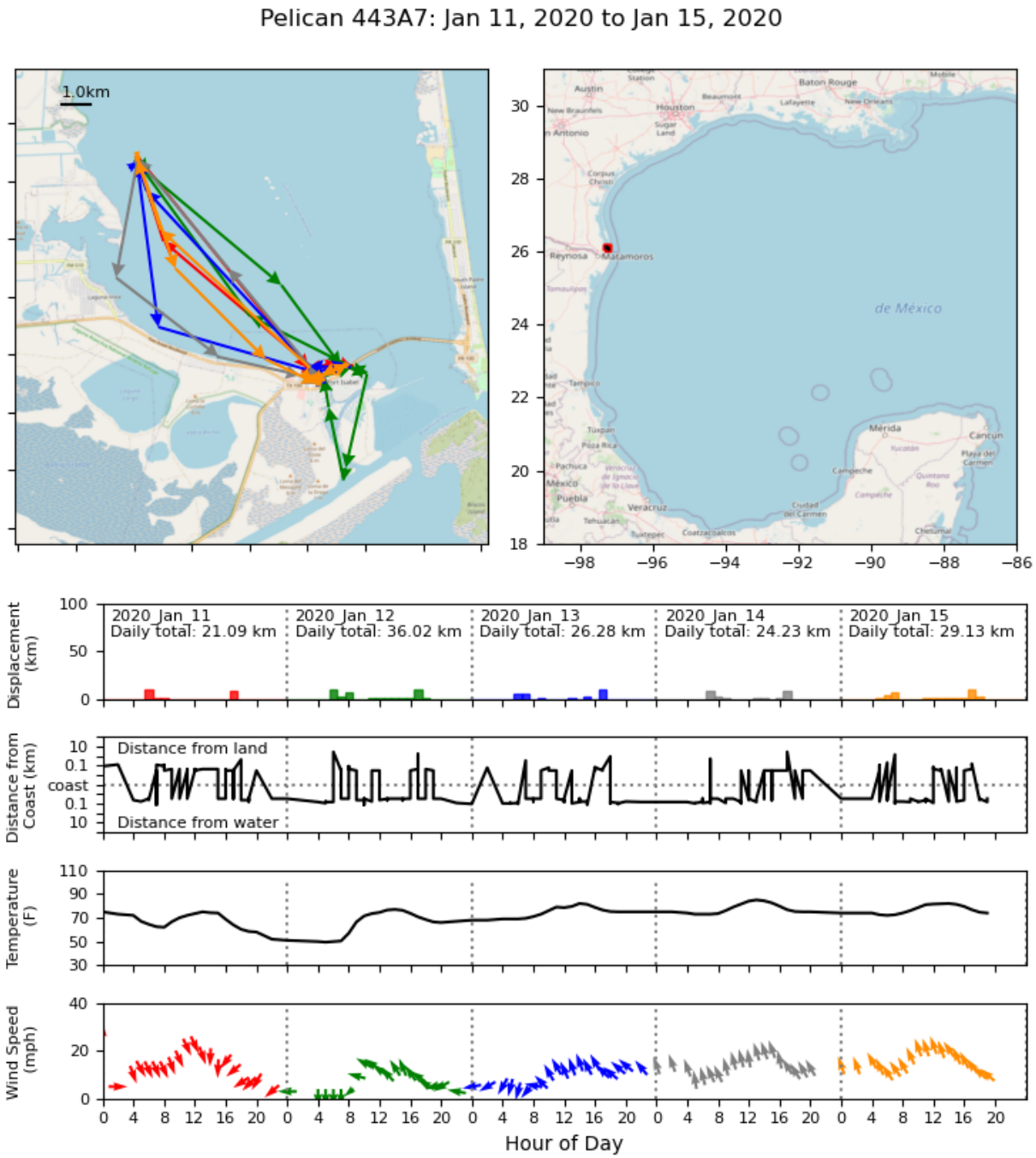

Figure 959 - Maps and graphs showing movements of 443A7 between 2020-01-11 and 2020-01-14 inclusive.

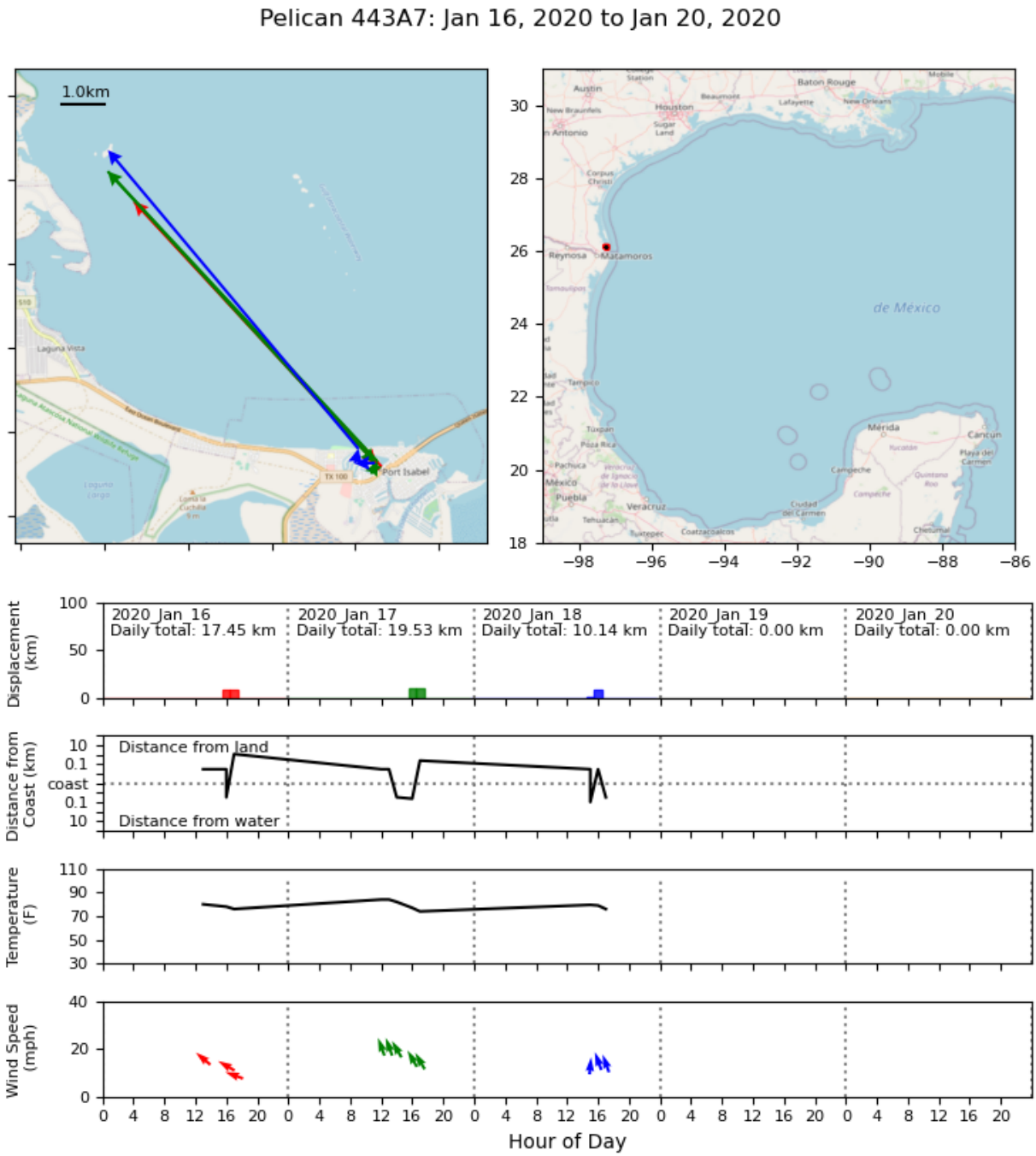

Figure 960 - Maps and graphs showing movements of 443A7 between 2020-01-16 and 2020-01-19 inclusive.

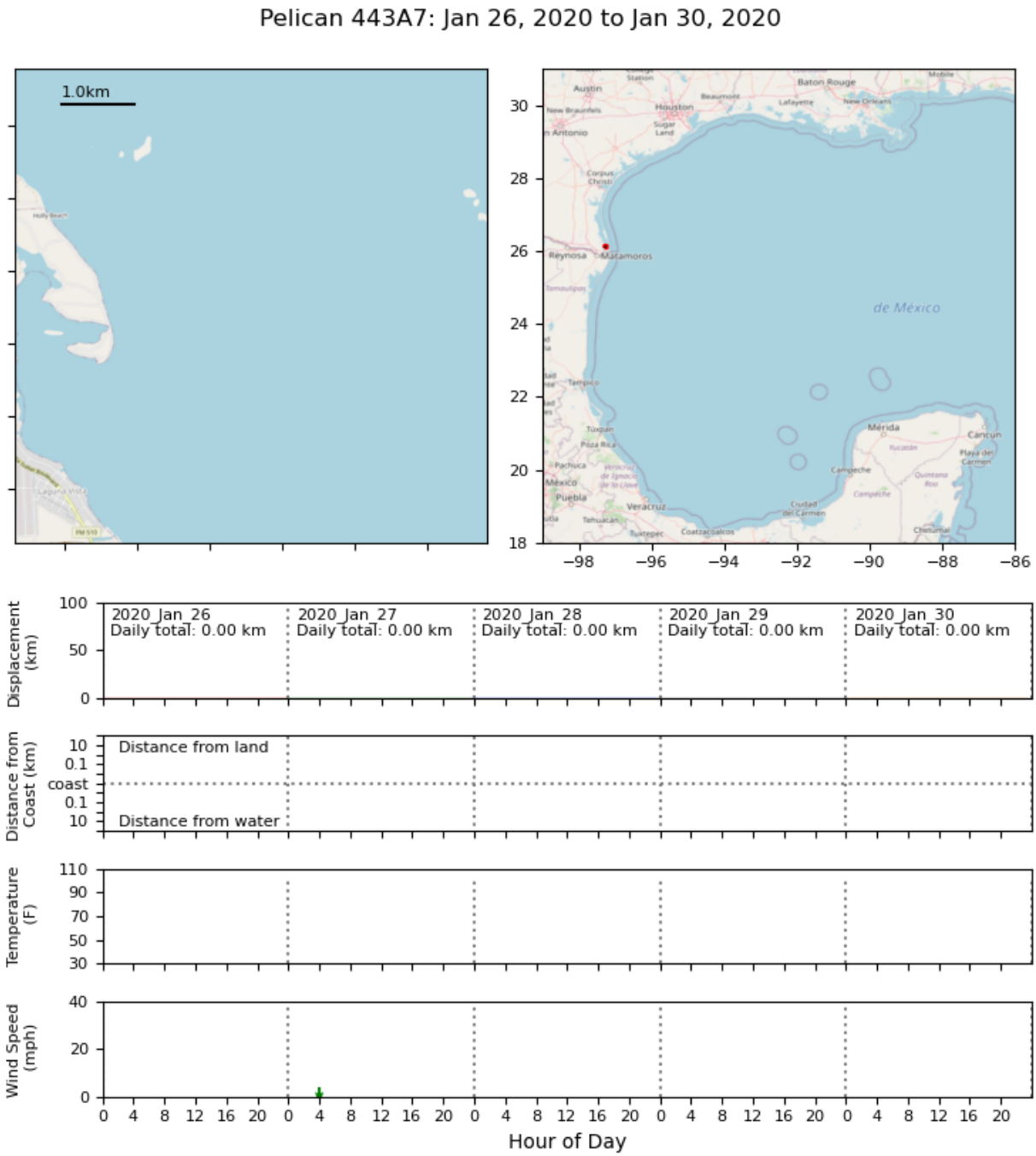

Figure 961 - Maps and graphs showing movements of 443A7 between 2020-01-26 and 2020-01-29 inclusive.

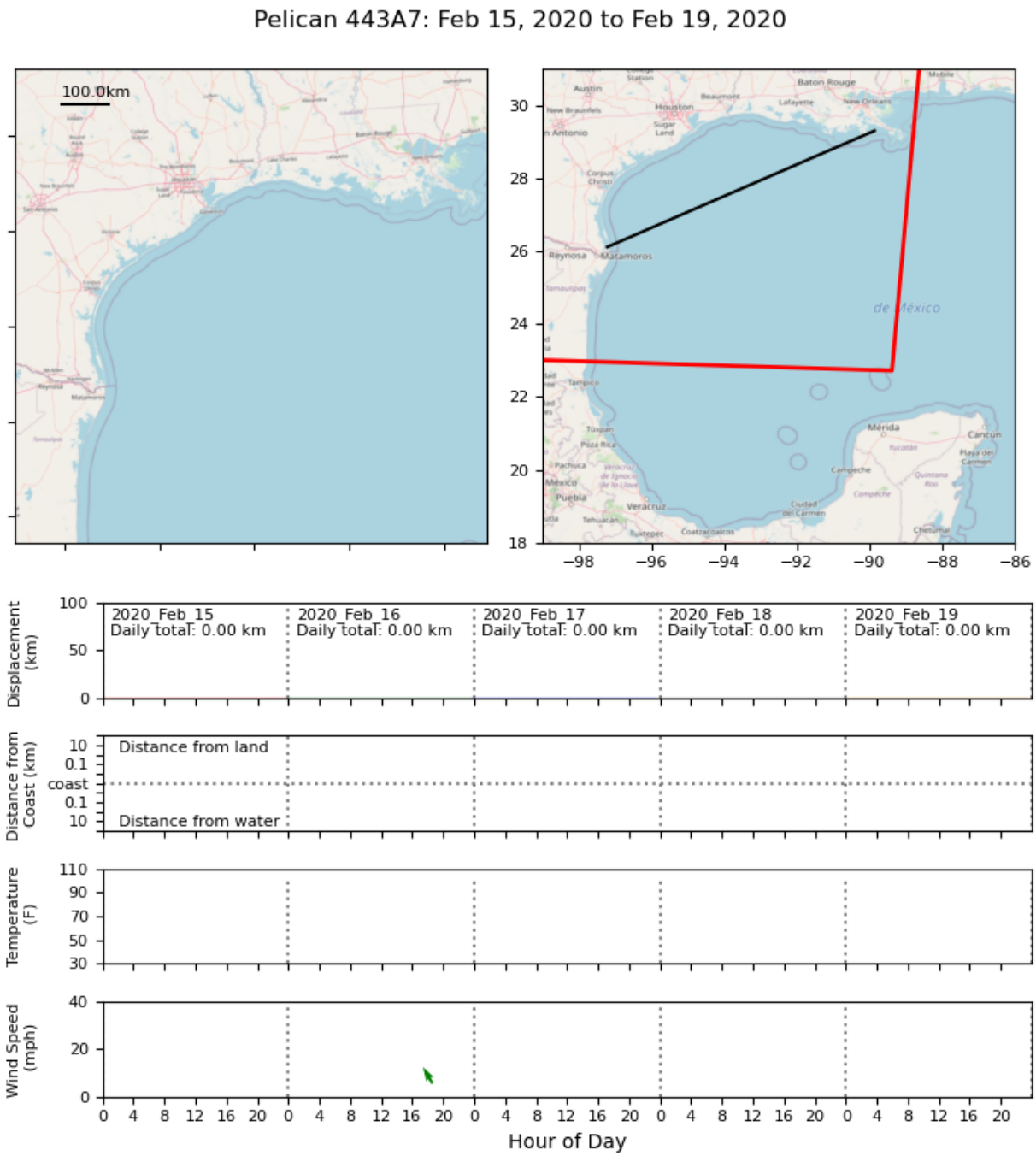

Figure 962 - Maps and graphs showing movements of 443A7 between 2020-02-15 and 2020-02-18 inclusive.

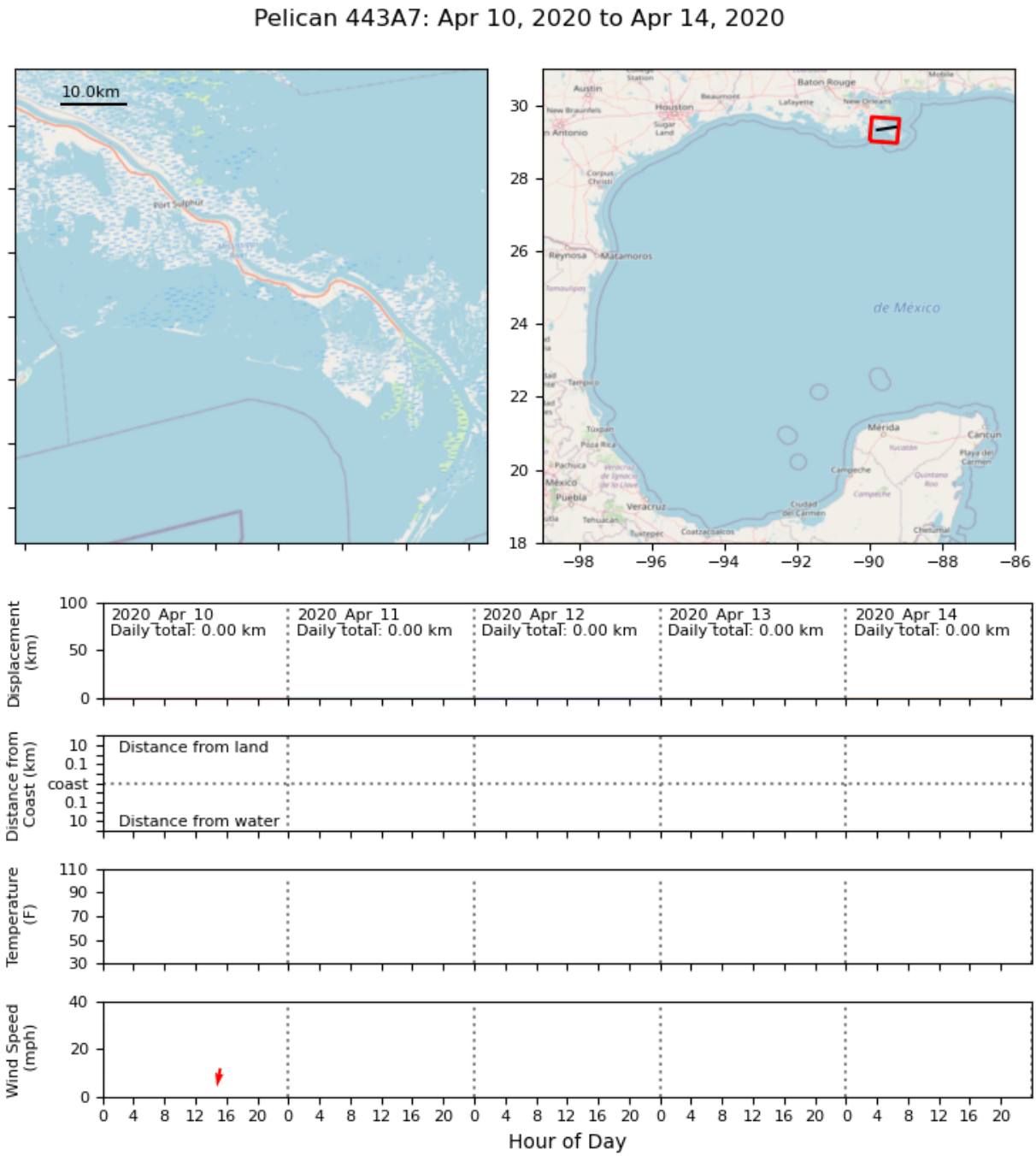

Figure 963 - Maps and graphs showing movements of 443A7 between 2020-04-10 and 2020-04-13 inclusive.

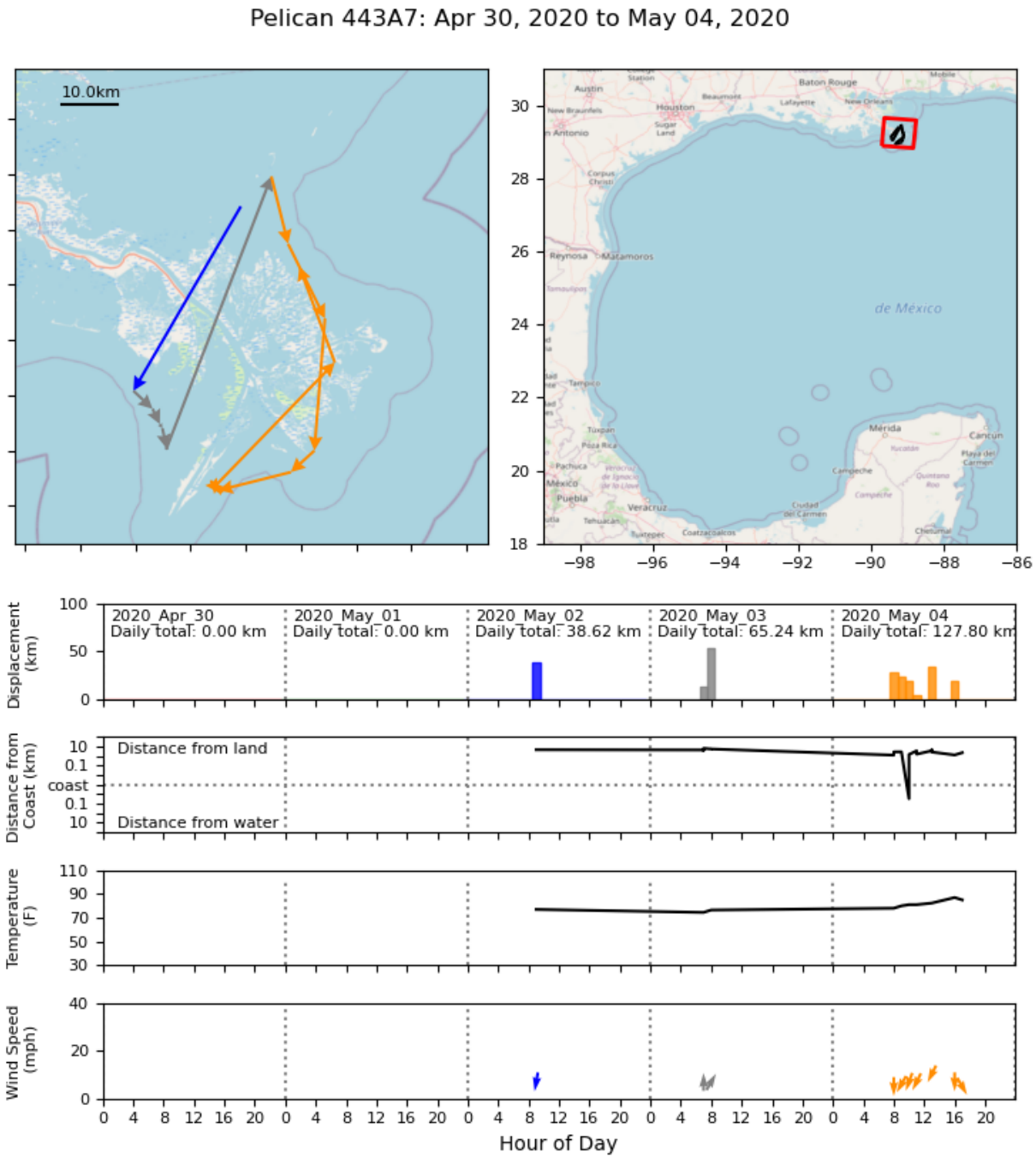

Figure 964 - Maps and graphs showing movements of 443A7 between 2020-04-30 and 2020-05-03 inclusive.

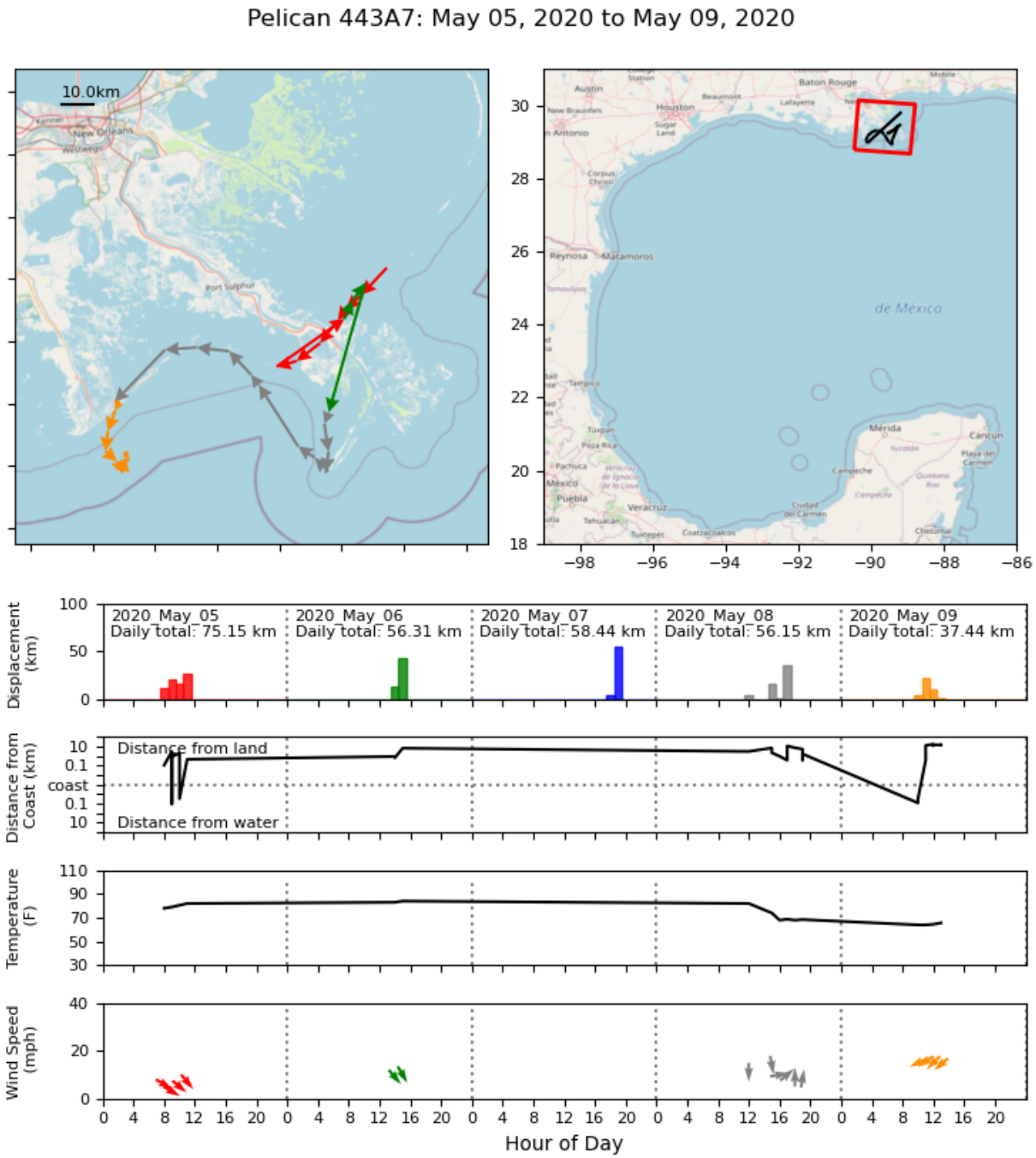

Figure 965 - Maps and graphs showing movements of 443A7 between 2020-05-05 and 2020-05-08 inclusive.

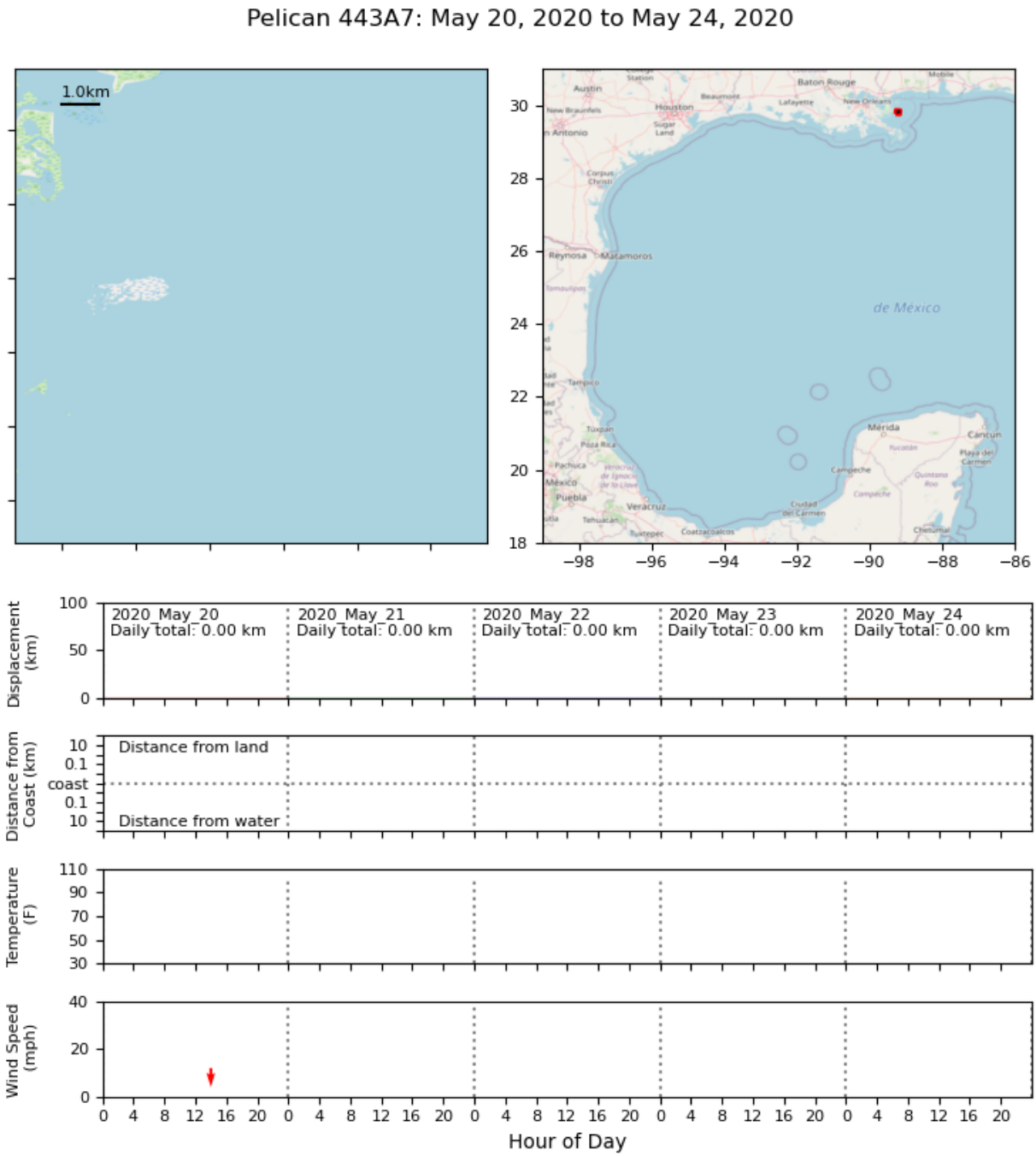

Figure 966 - Maps and graphs showing movements of 443A7 between 2020-05-20 and 2020-05-23 inclusive.

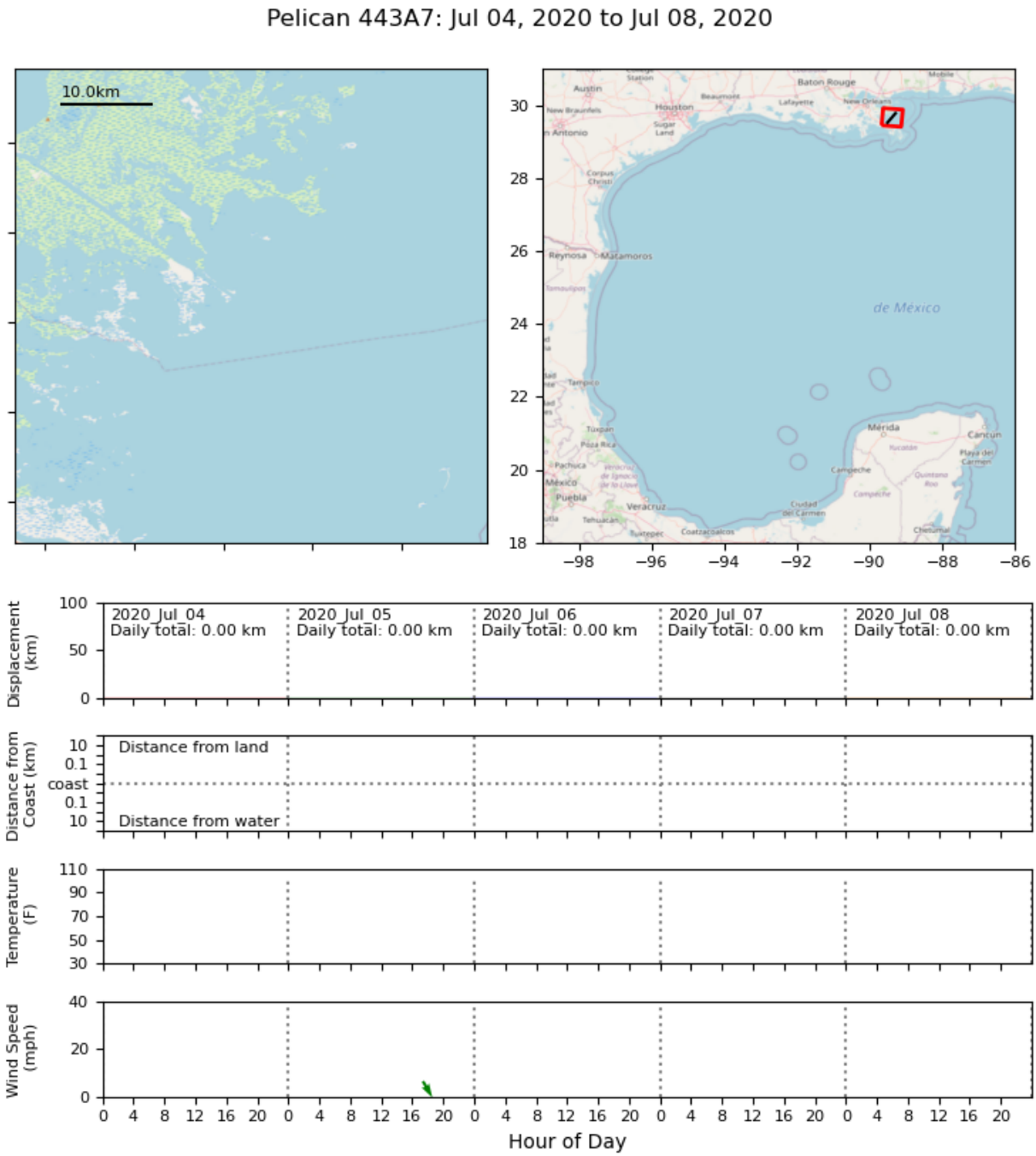

Figure 967 - Maps and graphs showing movements of 443A7 between 2020-07-04 and 2020-07-07 inclusive.

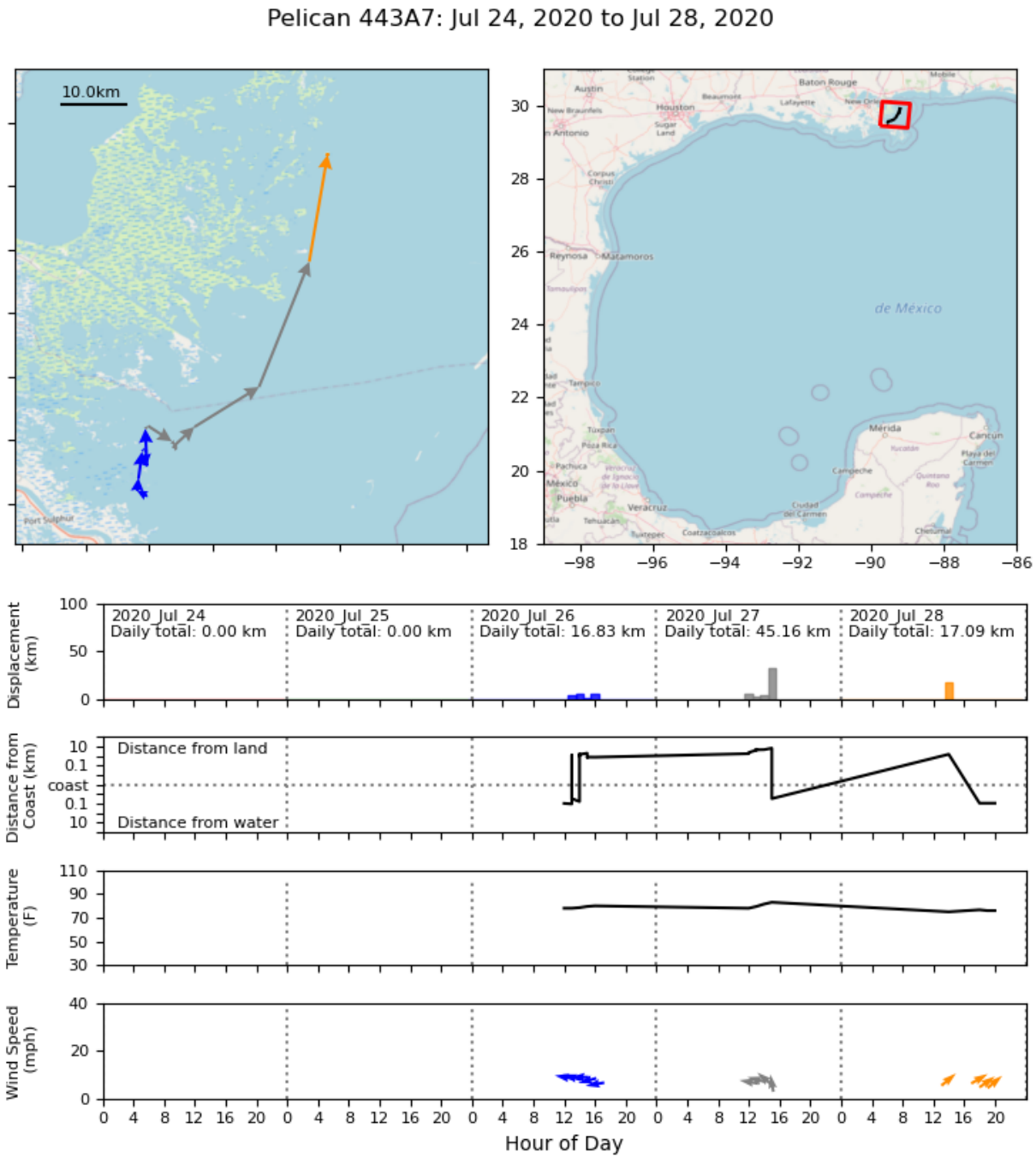

Figure 968 - Maps and graphs showing movements of 443A7 between 2020-07-24 and 2020-07-27 inclusive.

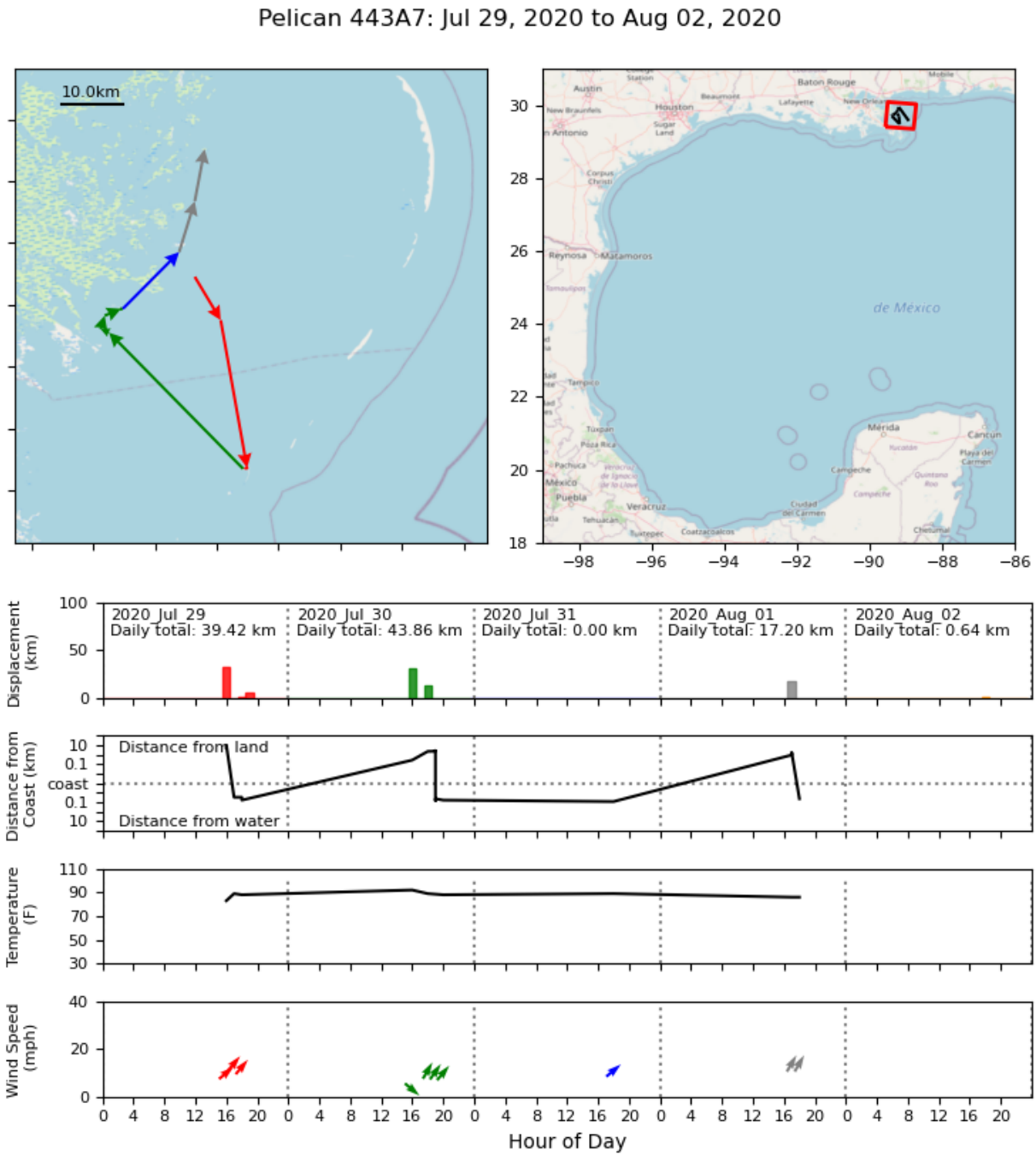

Figure 969 - Maps and graphs showing movements of 443A7 between 2020-07-29 and 2020-08-01 inclusive.

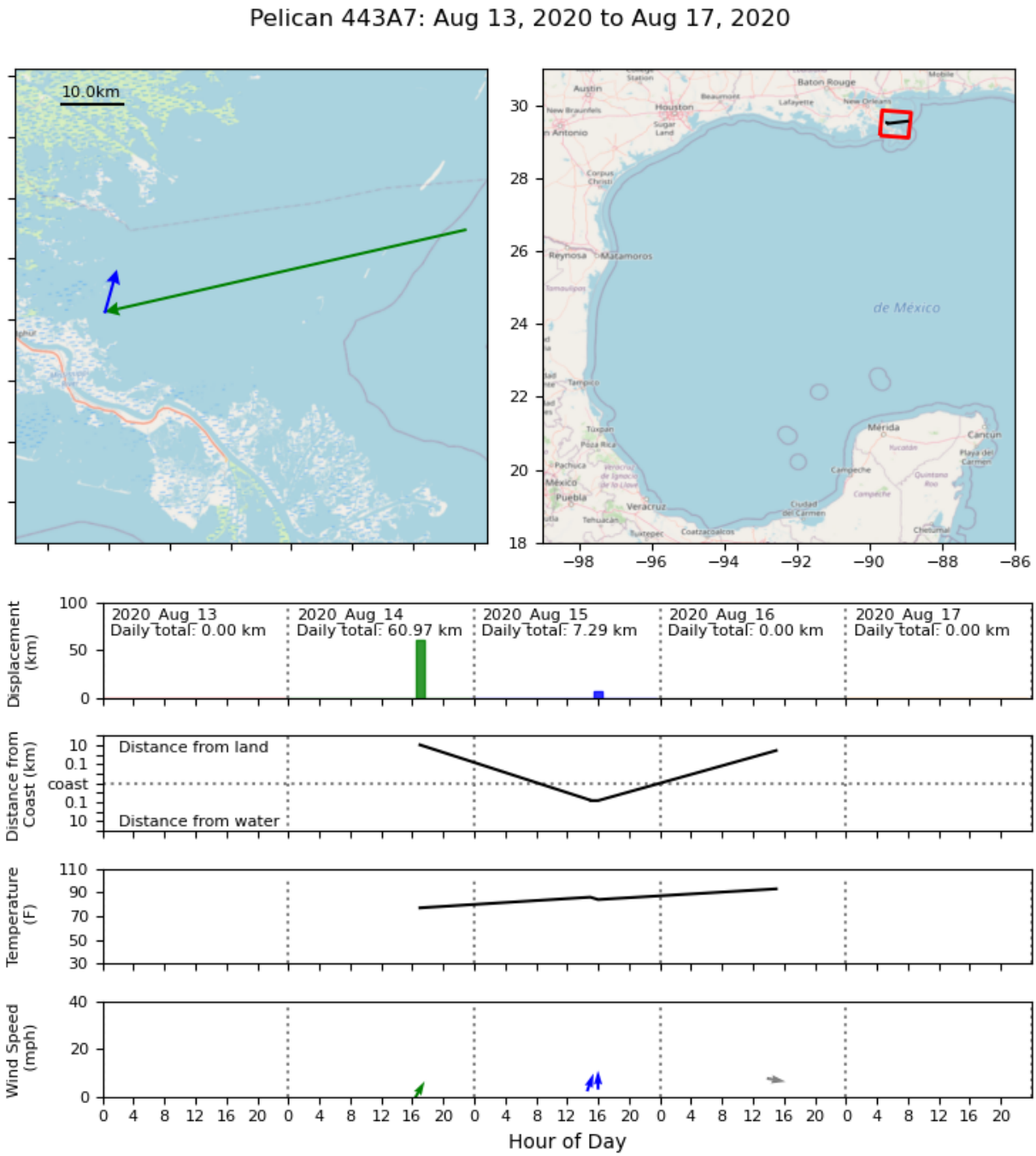

Figure 970 - Maps and graphs showing movements of 443A7 between 2020-08-13 and 2020-08-16 inclusive.

Pelican A95A - Active from December 18, 2018 to March 01, 2019

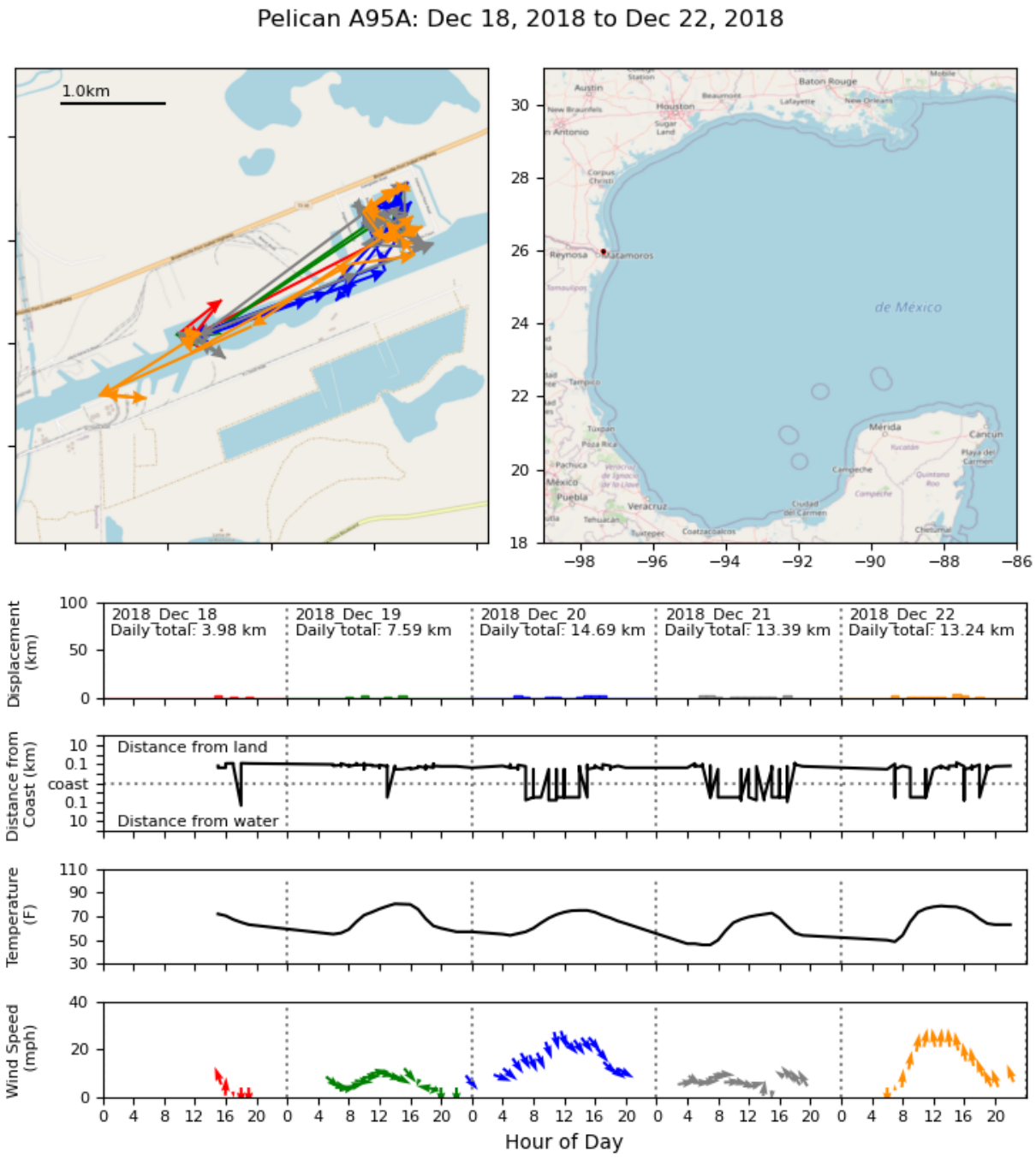

Figure 971 - Maps and graphs showing movements of A95A between 2018-12-18 and 2018-12-21 inclusive.

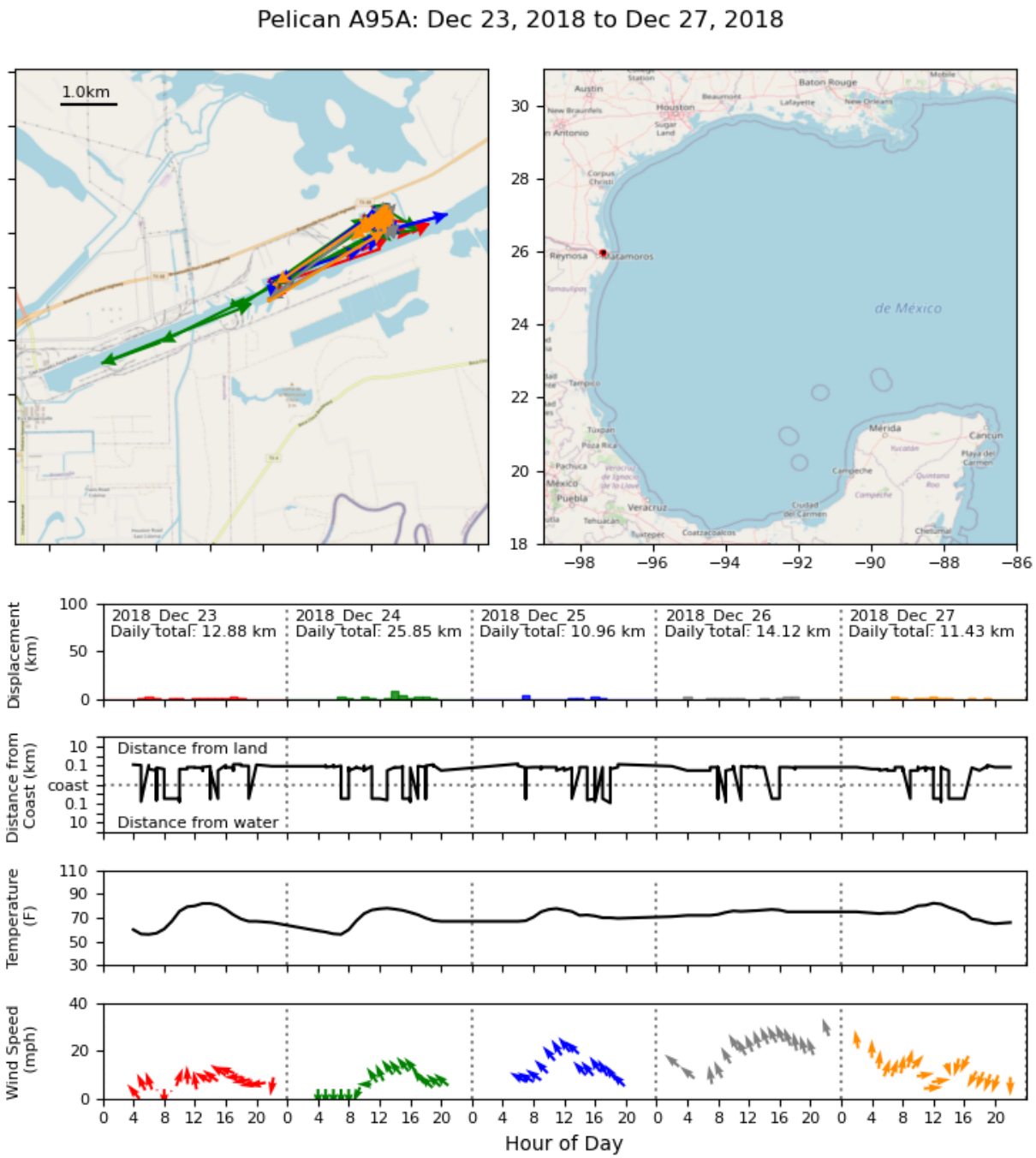

Figure 972 - Maps and graphs showing movements of A95A between 2018-12-23 and 2018-12-26 inclusive.

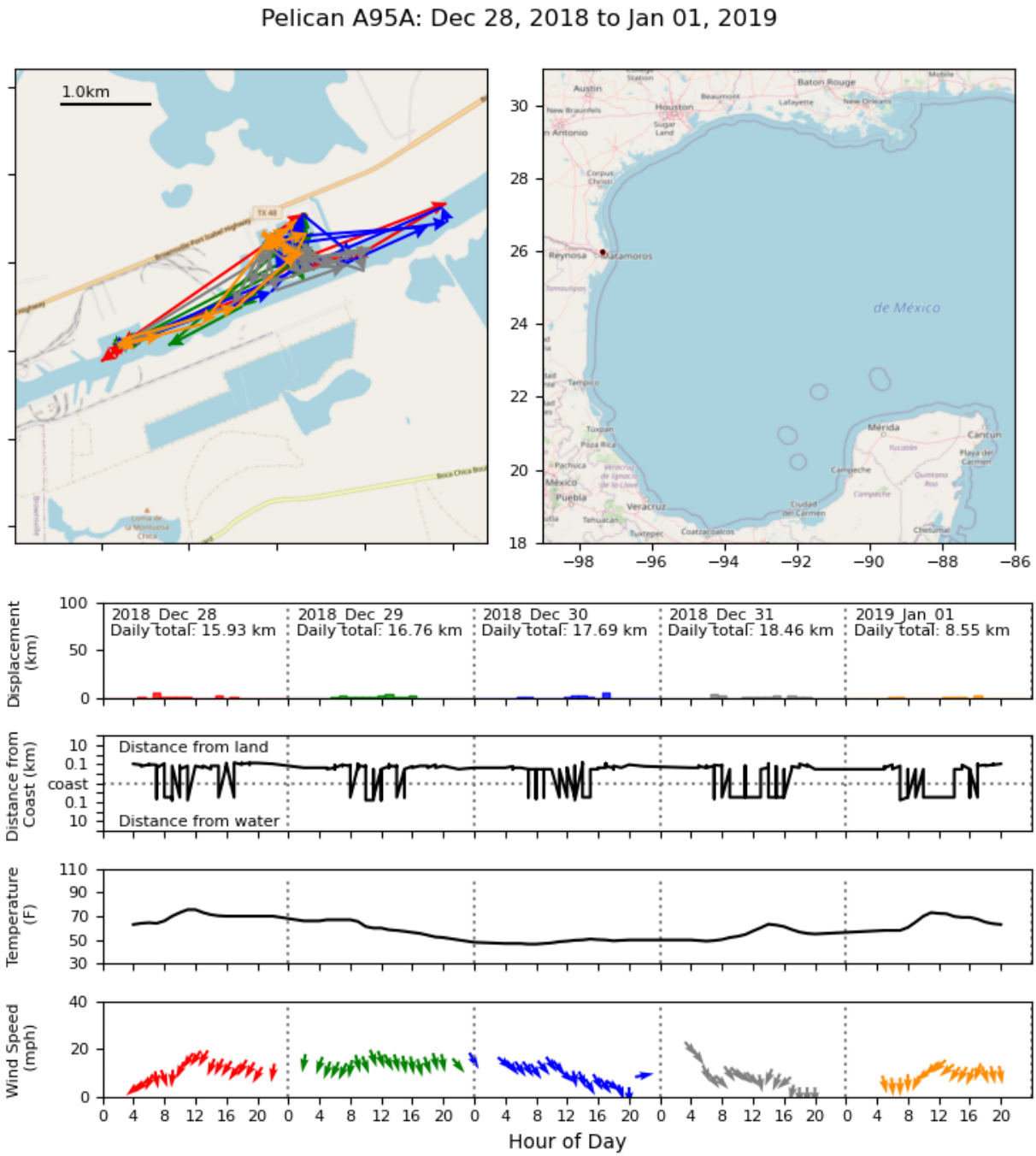

Figure 973 - Maps and graphs showing movements of A95A between 2018-12-28 and 2018-12-31 inclusive.

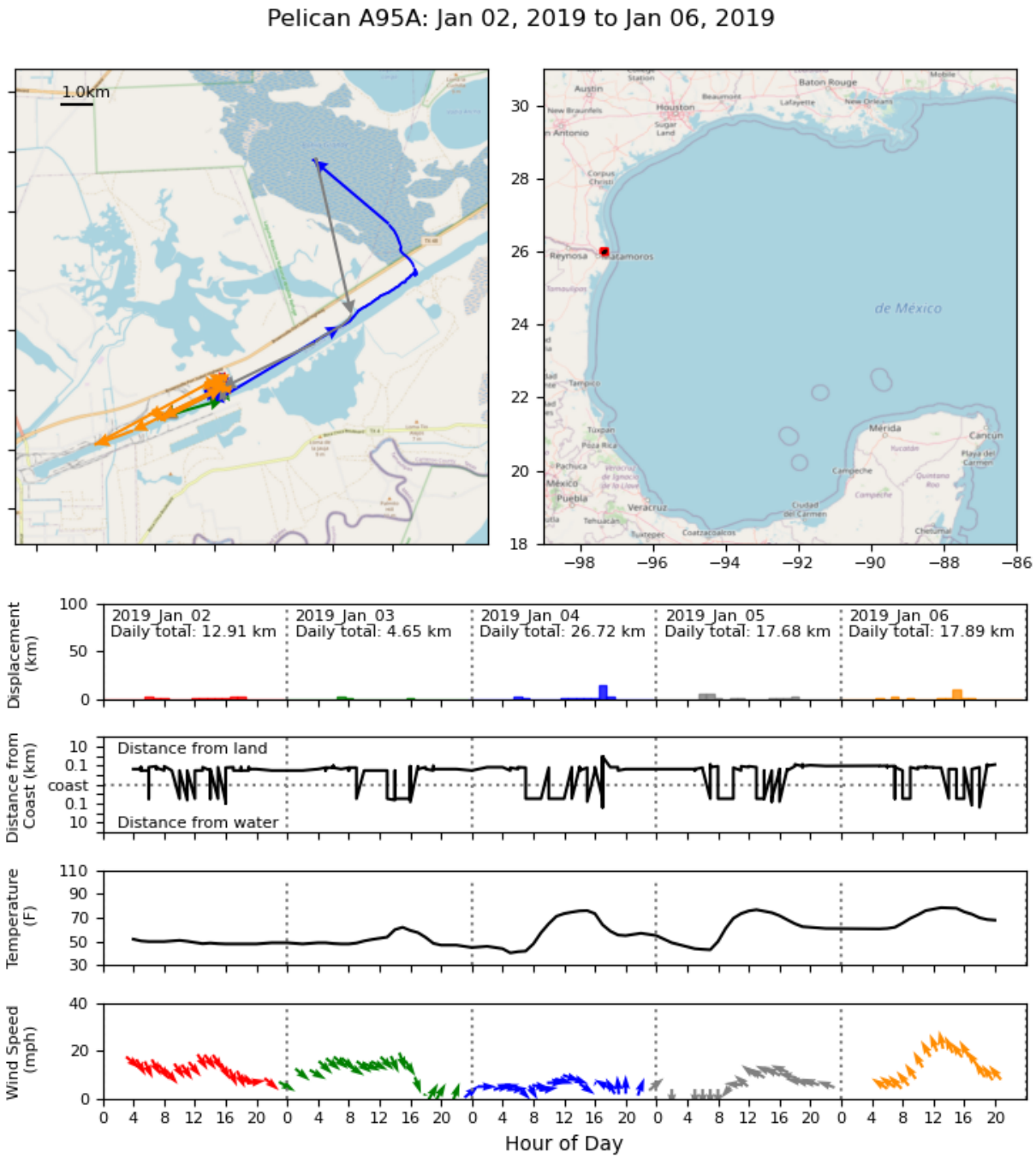

Figure 974 - Maps and graphs showing movements of A95A between 2019-01-02 and 2019-01-05 inclusive.

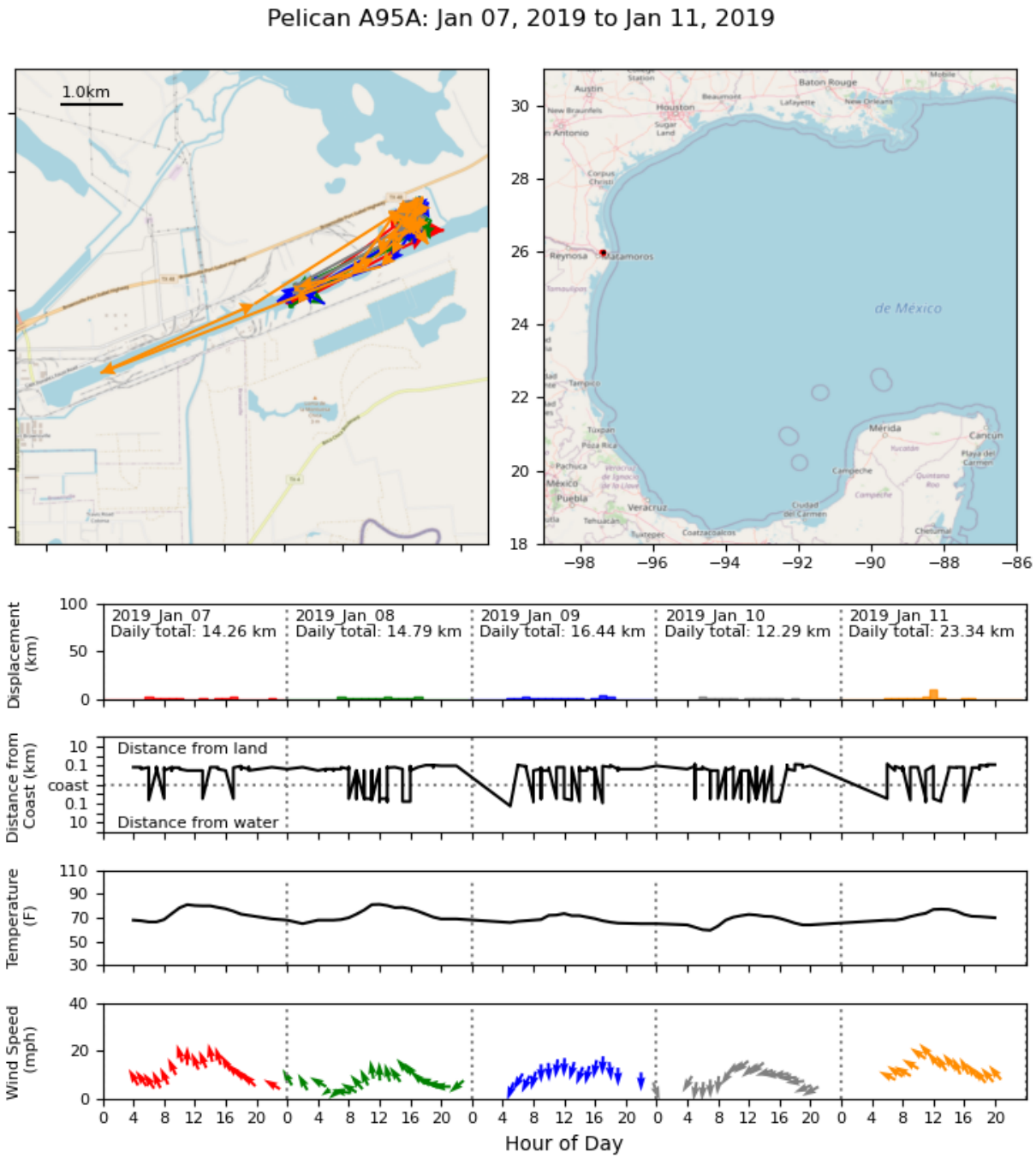

Figure 975 - Maps and graphs showing movements of A95A between 2019-01-07 and 2019-01-10 inclusive.

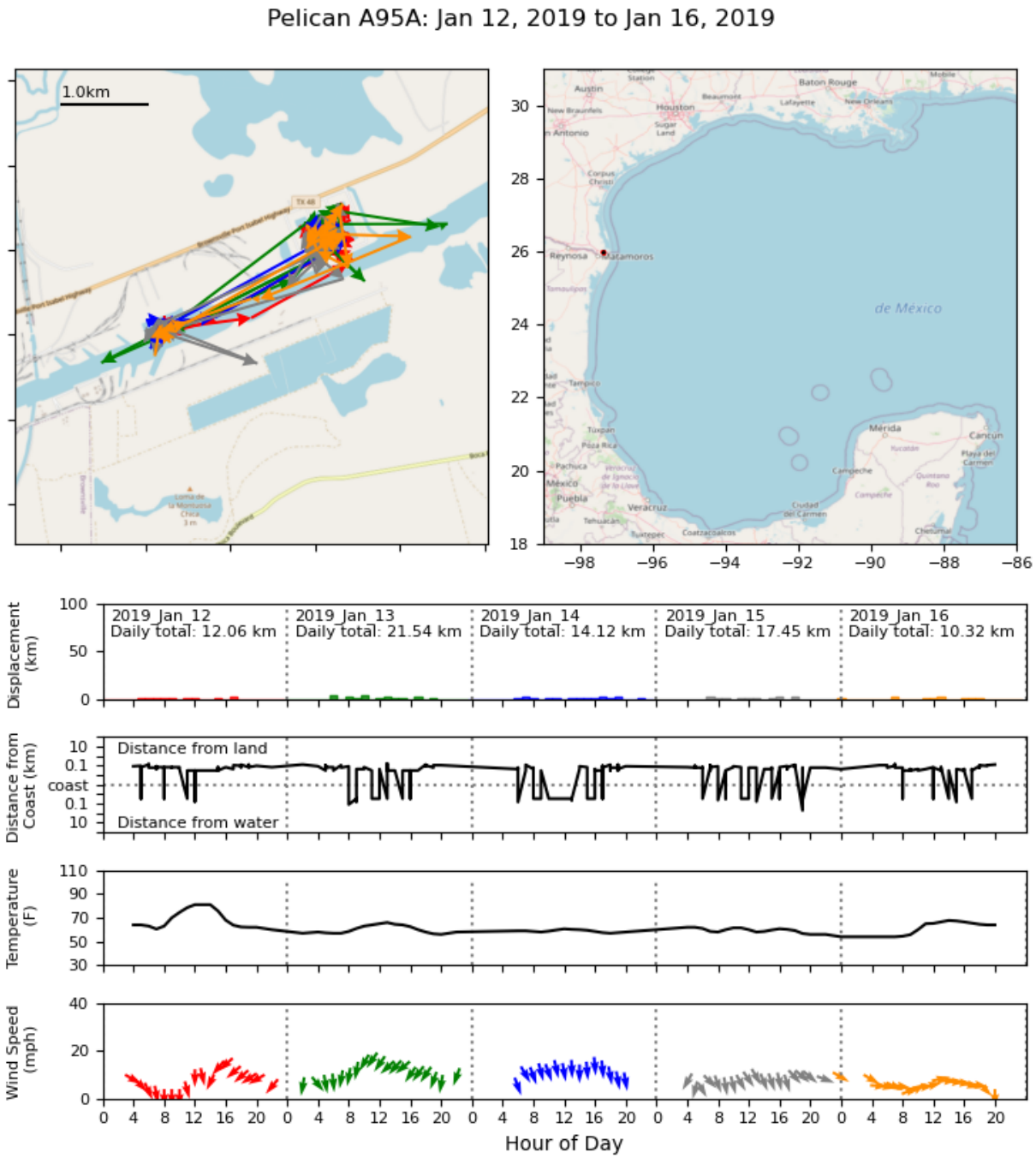

Figure 976 - Maps and graphs showing movements of A95A between 2019-01-12 and 2019-01-15 inclusive.

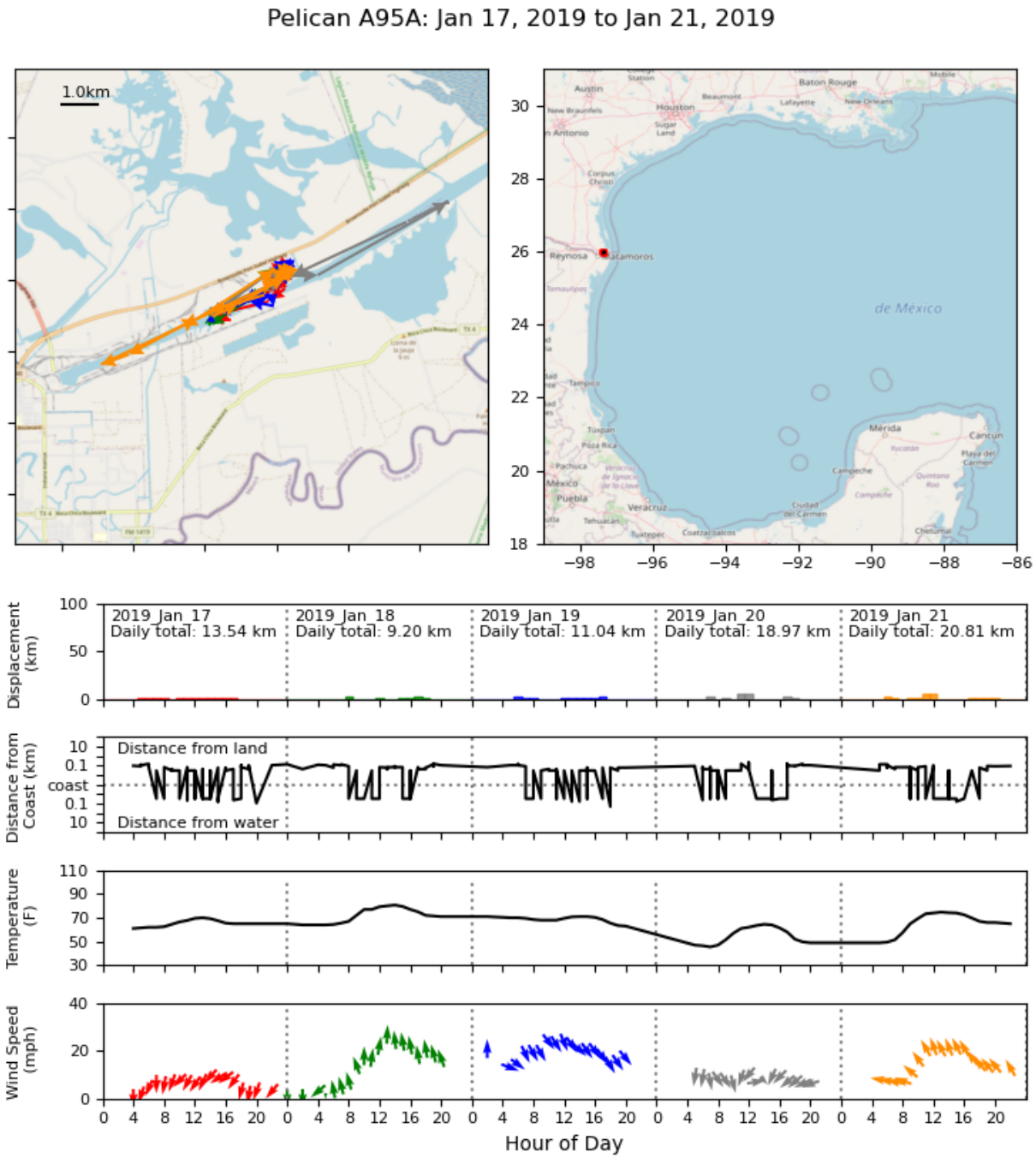

Figure 977 - Maps and graphs showing movements of A95A between 2019-01-17 and 2019-01-20 inclusive.

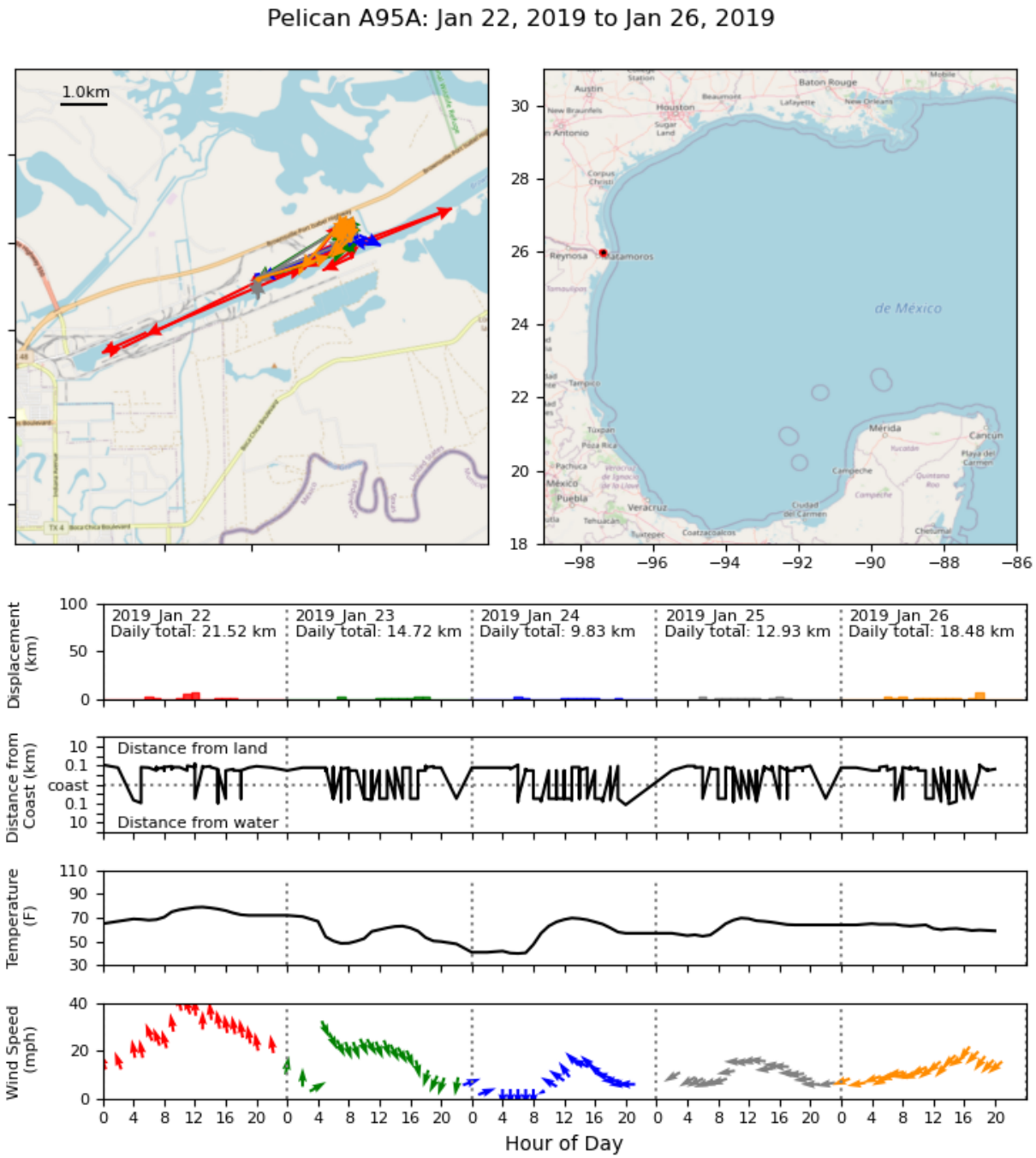

Figure 978 - Maps and graphs showing movements of A95A between 2019-01-22 and 2019-01-25 inclusive.

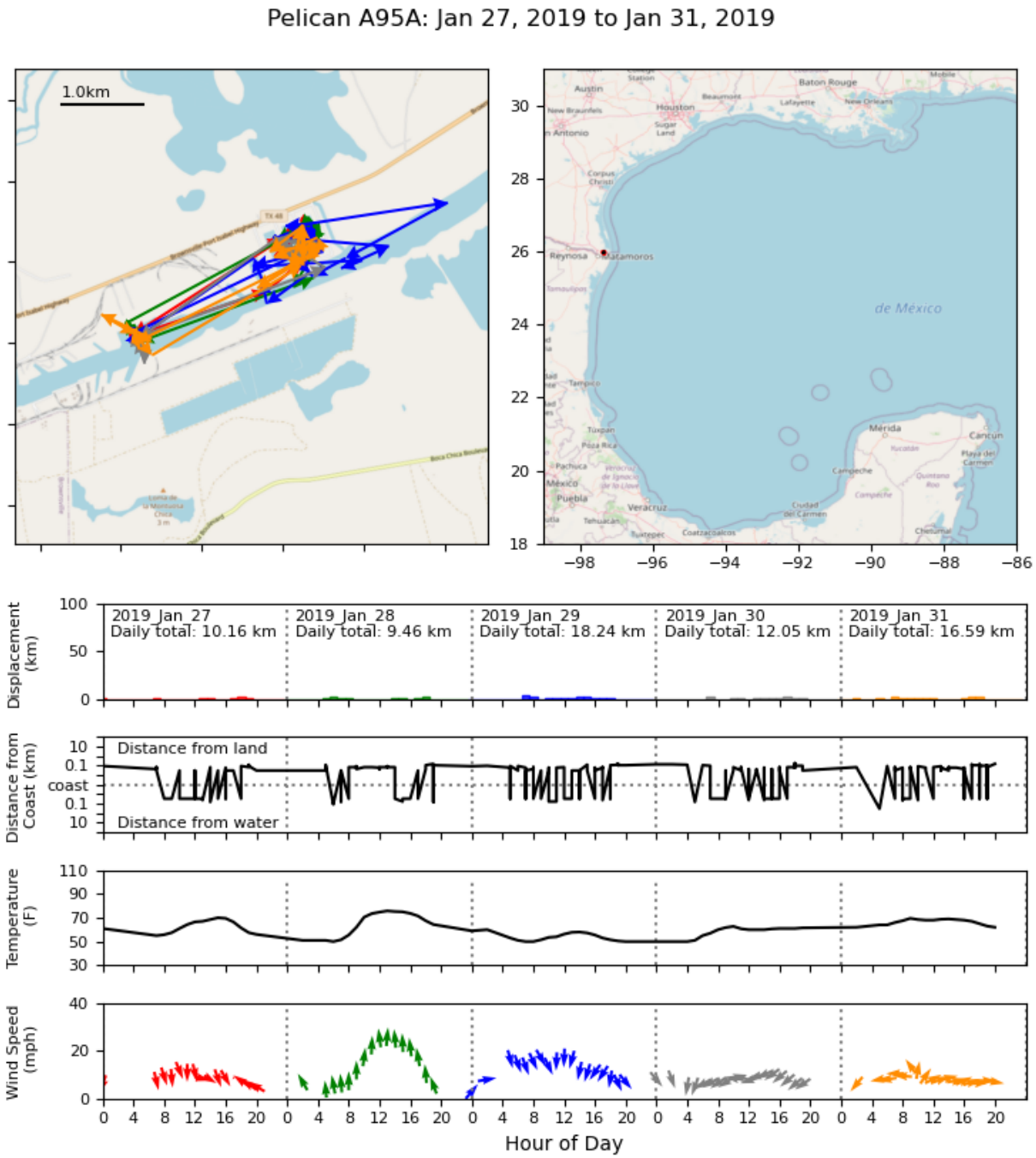

Figure 979 - Maps and graphs showing movements of A95A between 2019-01-27 and 2019-01-30 inclusive.

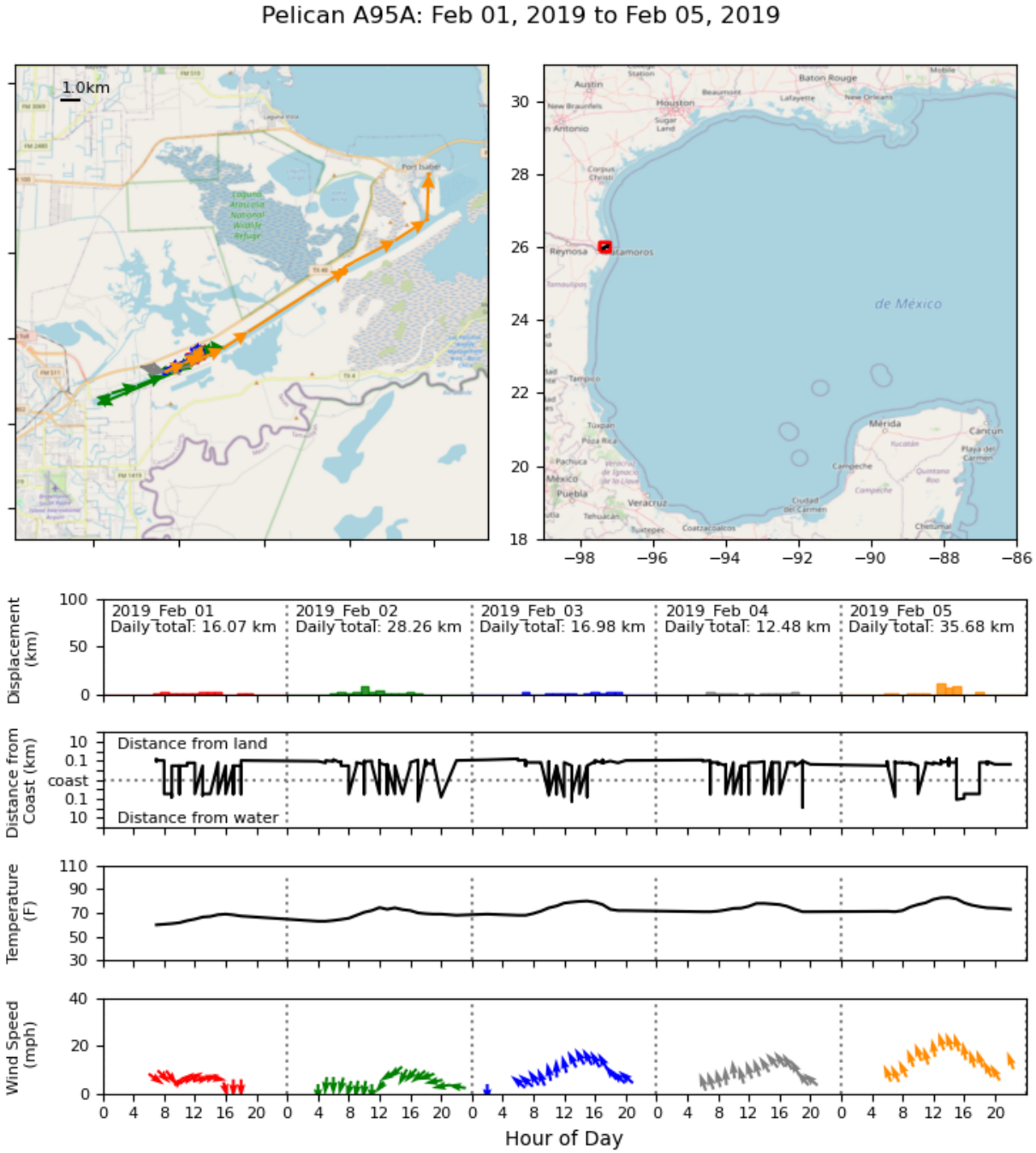

Figure 980 - Maps and graphs showing movements of A95A between 2019-02-01 and 2019-02-04 inclusive.

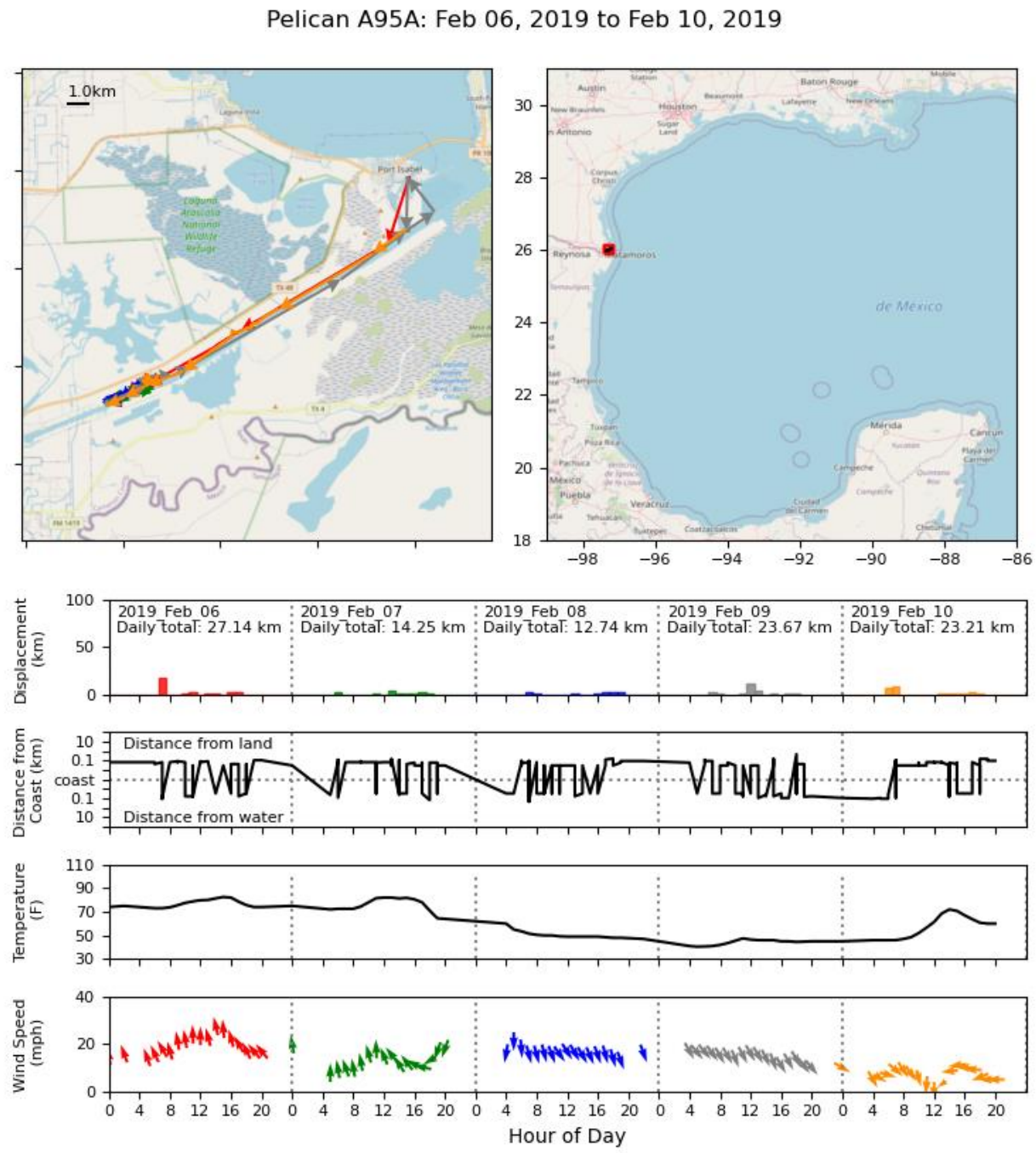

Figure 981 - Maps and graphs showing movements of A95A between 2019-02-06 and 2019-02-09 inclusive.

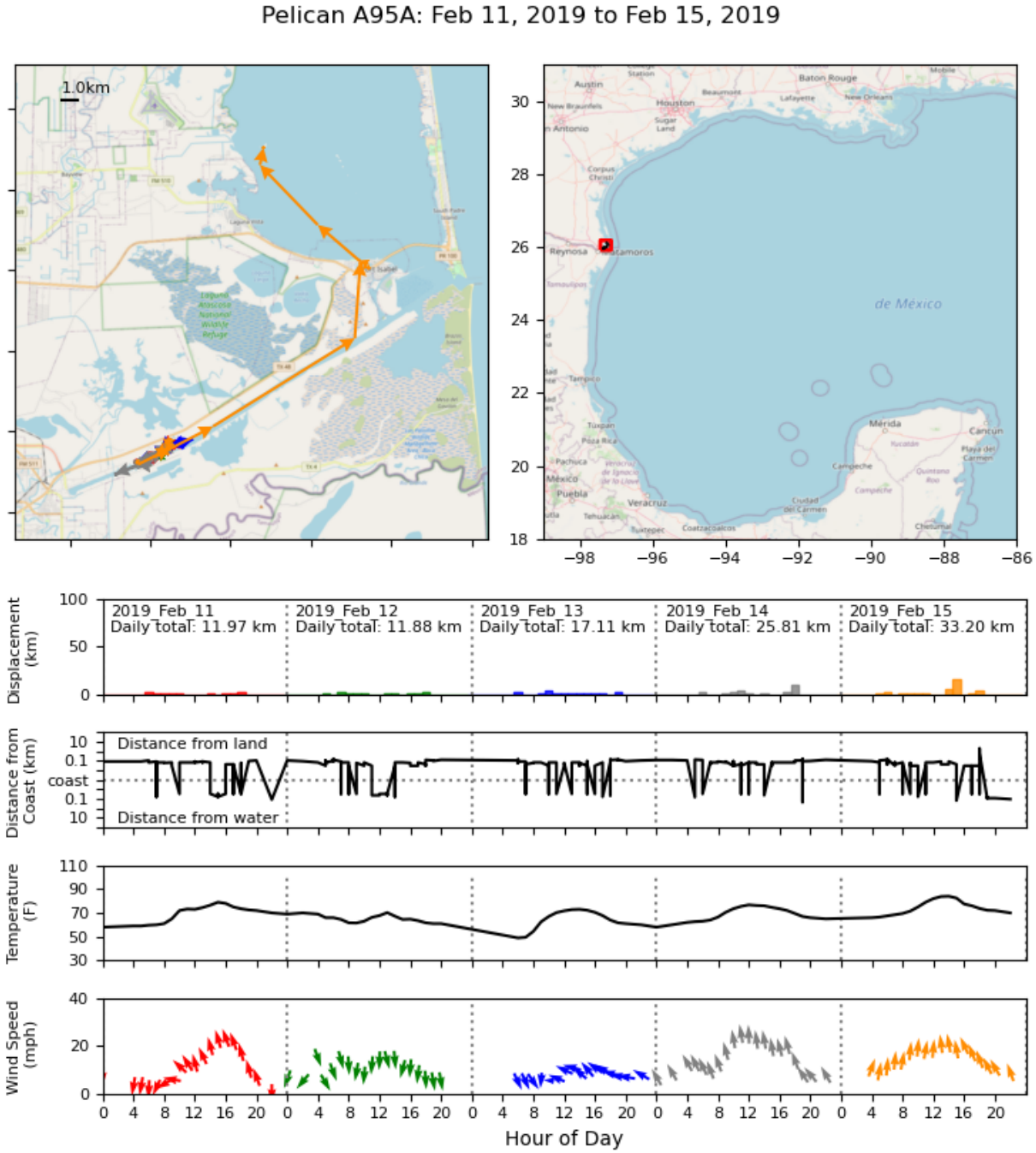

Figure 982 - Maps and graphs showing movements of A95A between 2019-02-11 and 2019-02-14 inclusive.

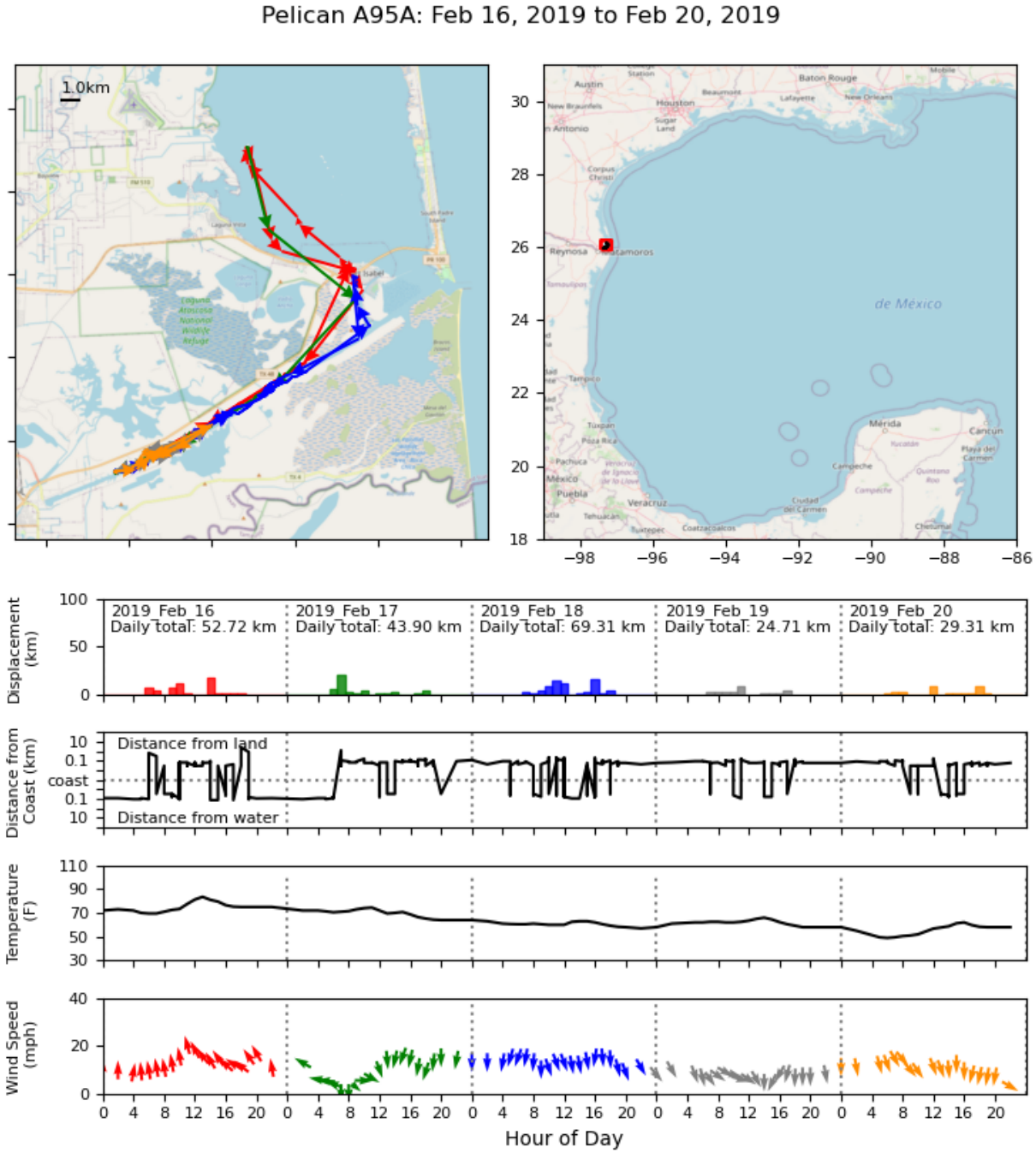

Figure 983 - Maps and graphs showing movements of A95A between 2019-02-16 and 2019-02-19 inclusive.

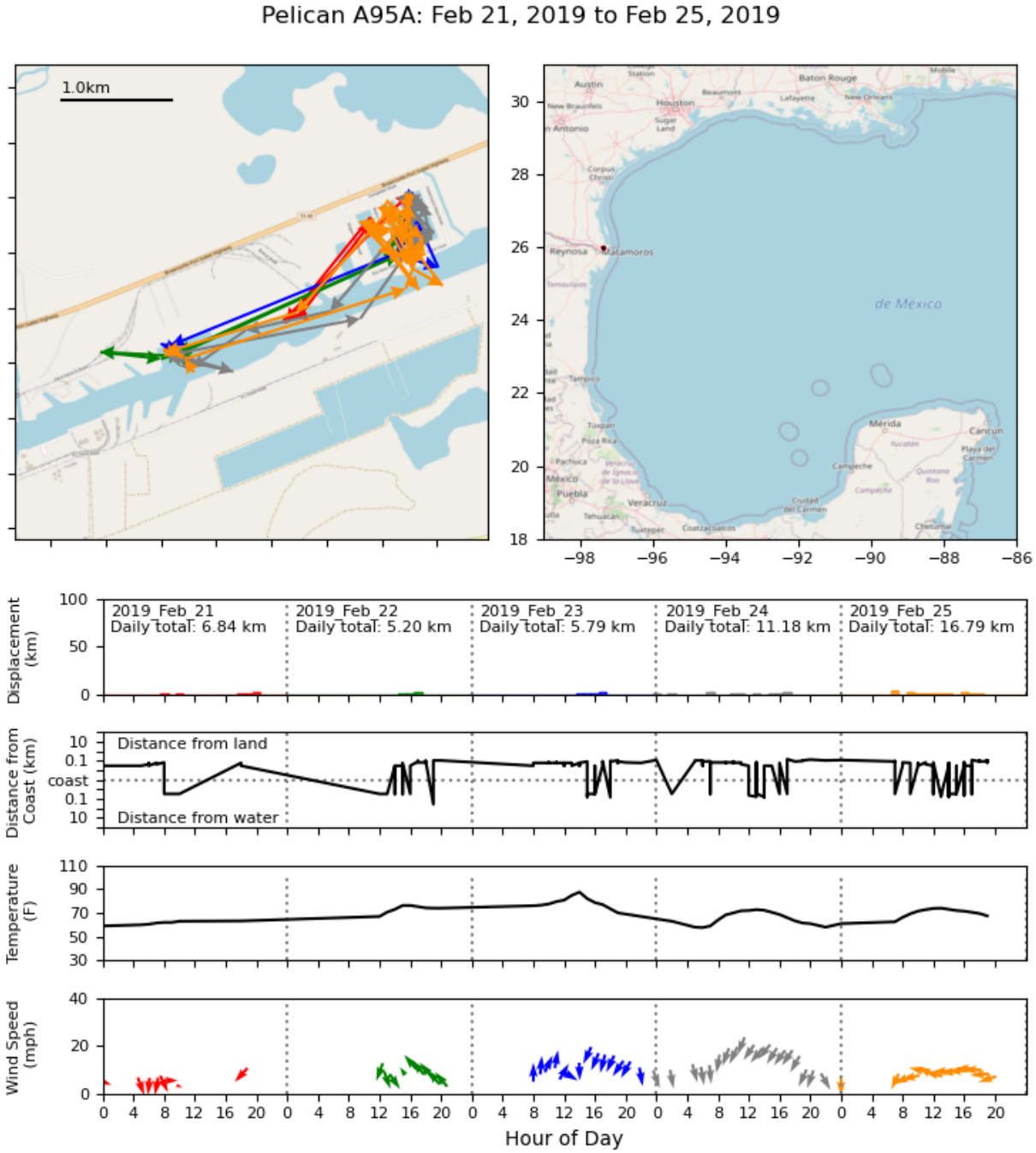

Figure 984 - Maps and graphs showing movements of A95A between 2019-02-21 and 2019-02-24 inclusive.

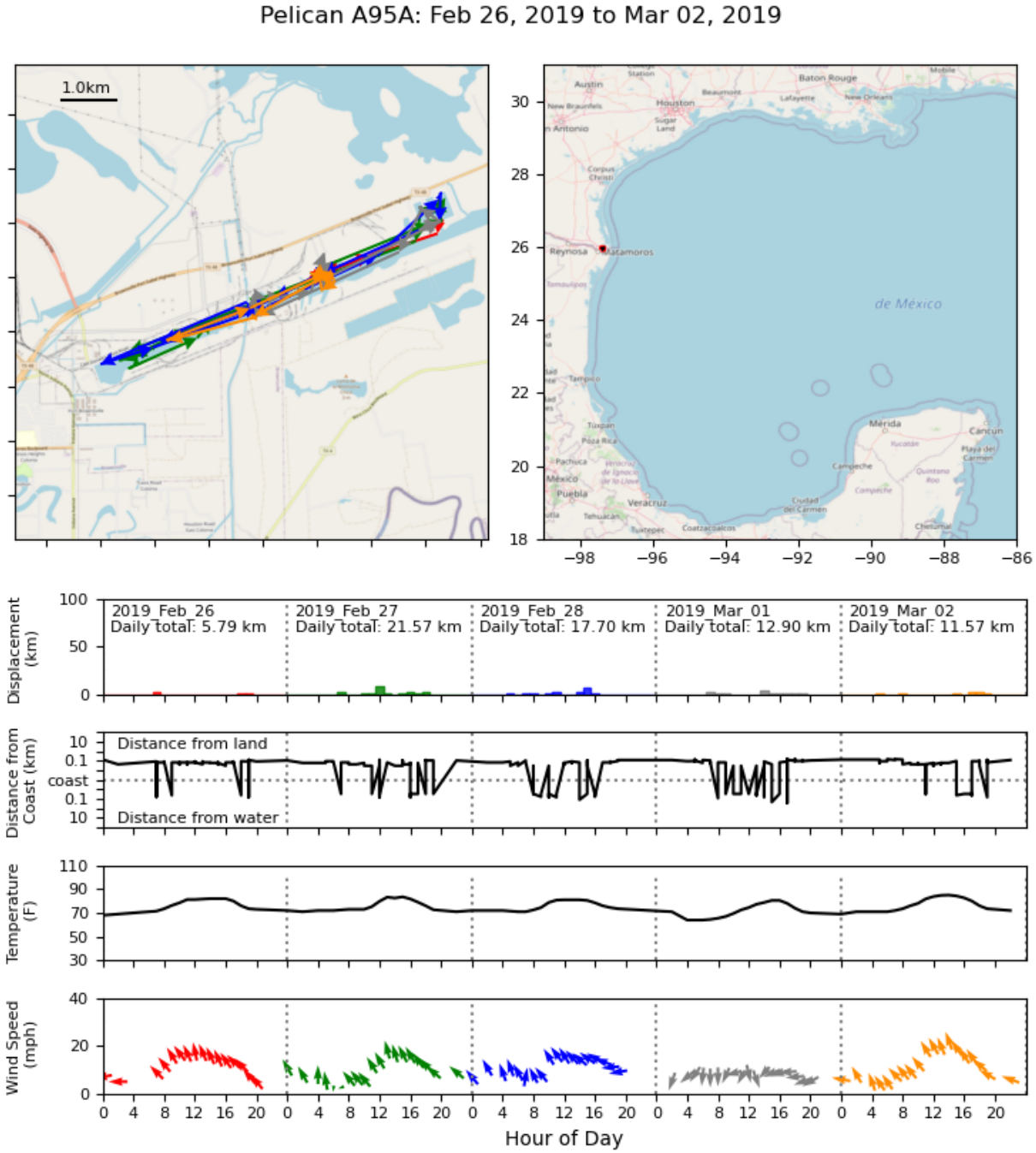

Figure 985 - Maps and graphs showing movements of A95A between 2019-02-26 and 2019-03-01 inclusive.

Pelican A45A - Active from December 18, 2018 to December 21, 2019

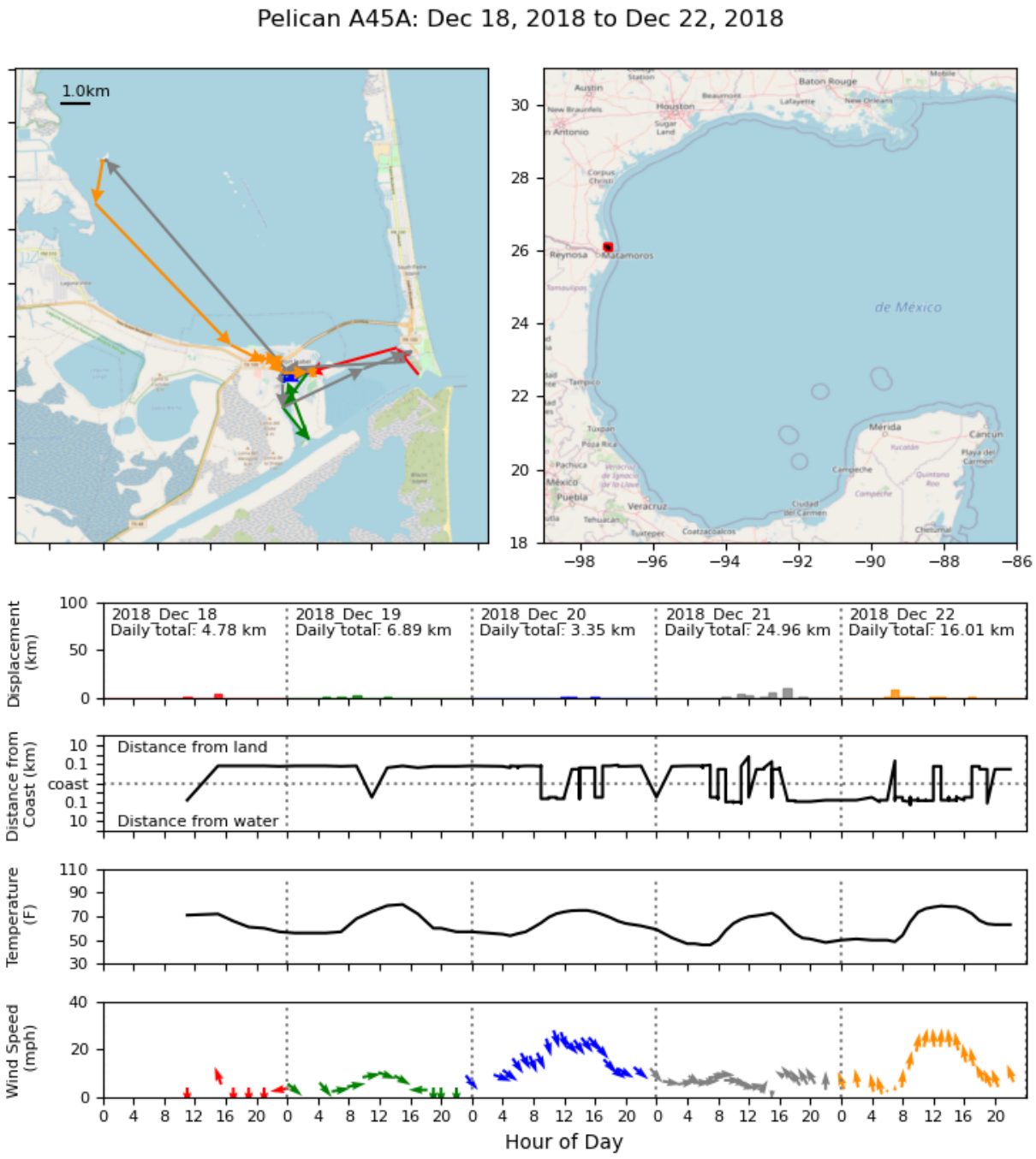

Figure 986 - Maps and graphs showing movements of A45A between 2018-12-18 and 2018-12-21 inclusive.

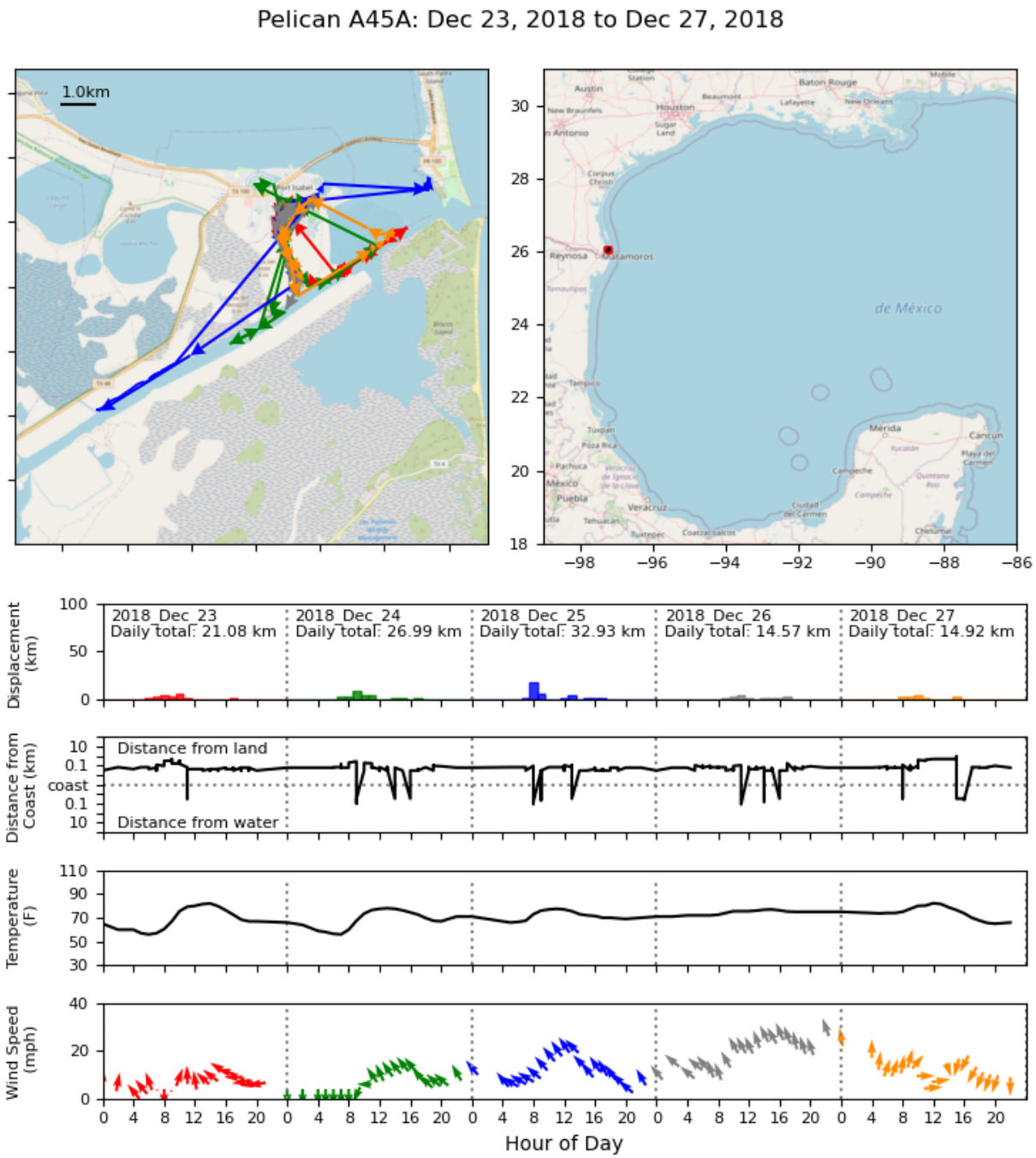

Figure 987 - Maps and graphs showing movements of A45A between 2018-12-23 and 2018-12-26 inclusive.

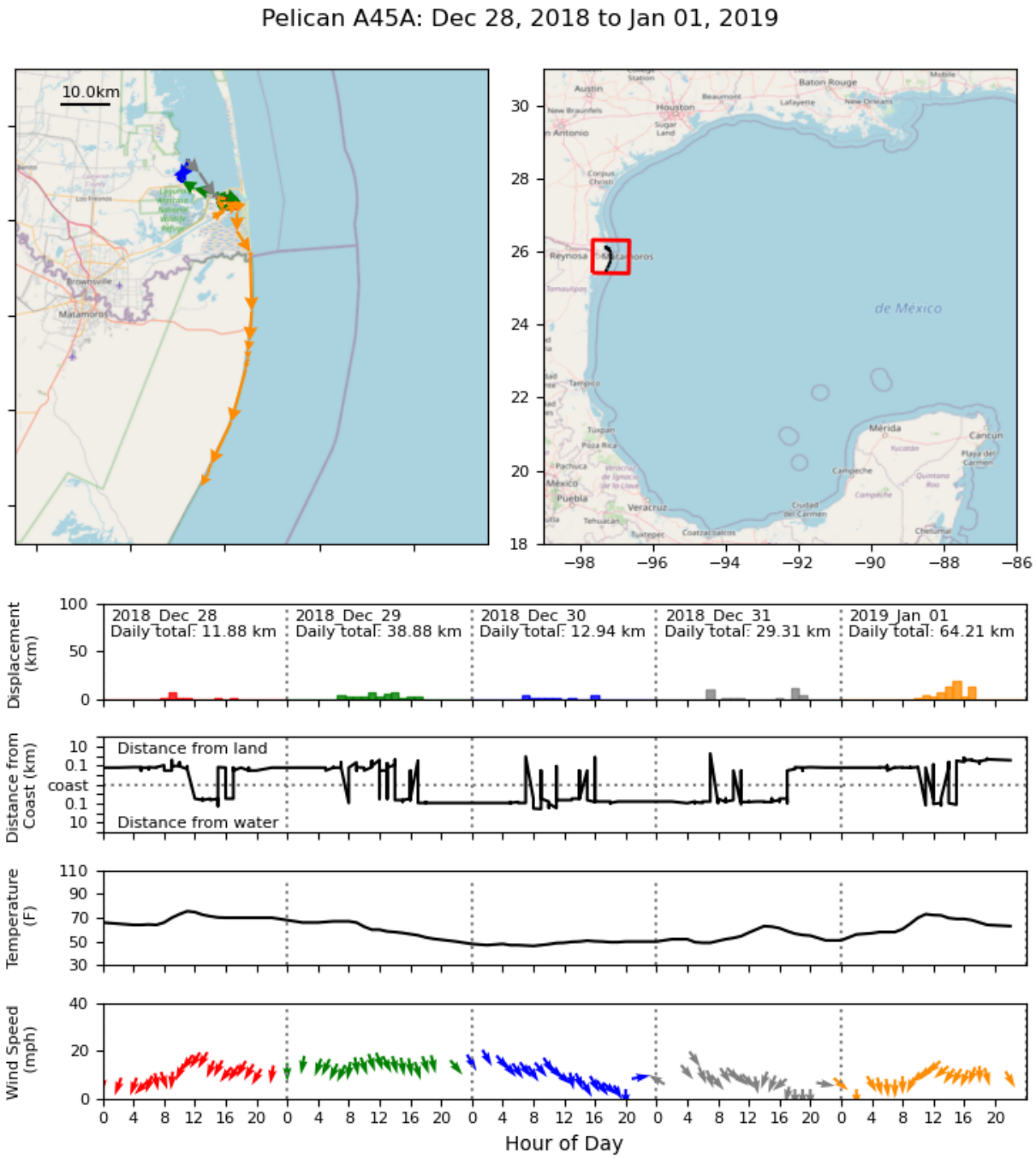

Figure 988 - Maps and graphs showing movements of A45A between 2018-12-28 and 2018-12-31 inclusive.

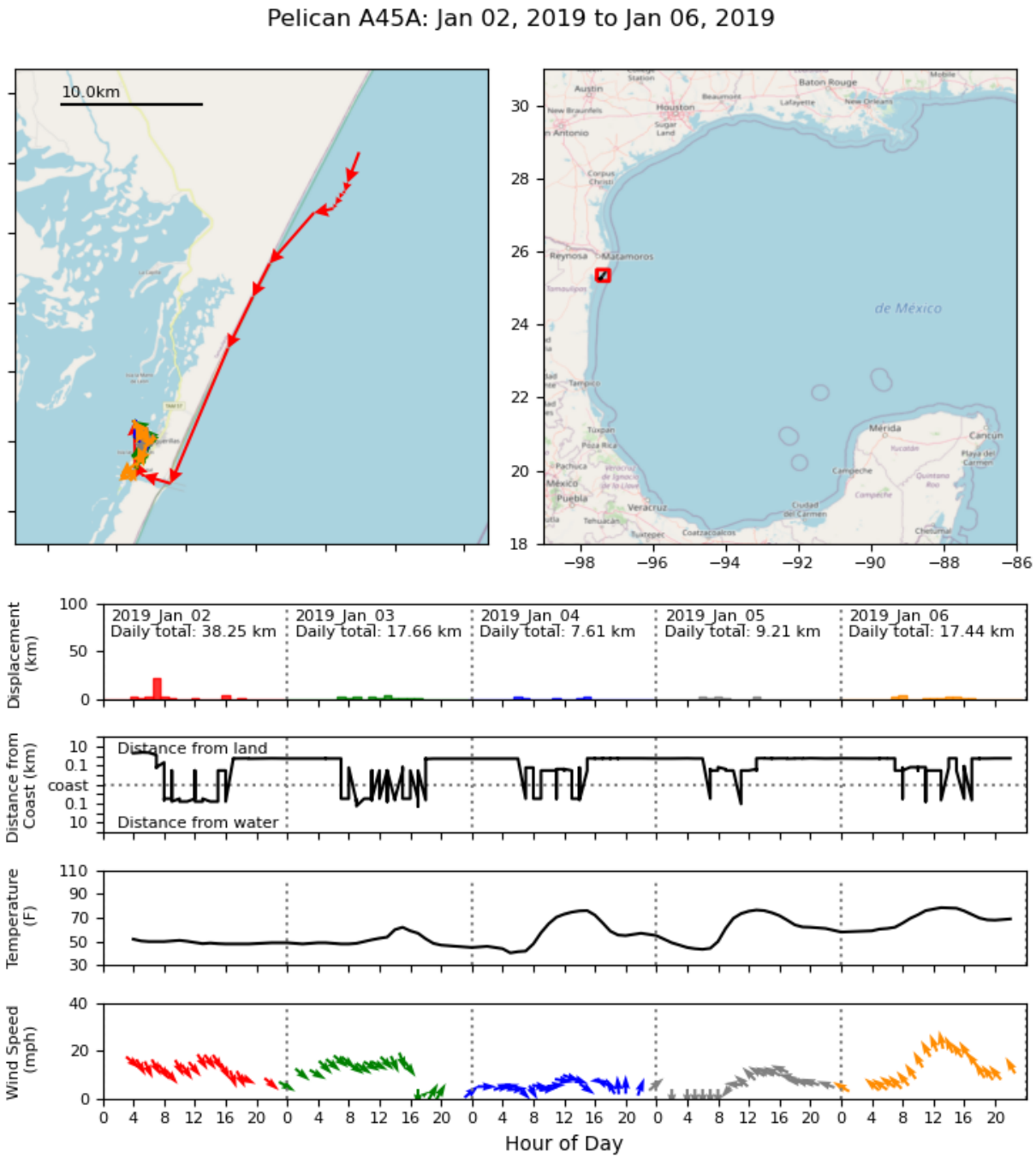

Figure 989 - Maps and graphs showing movements of A45A between 2019-01-02 and 2019-01-05 inclusive.

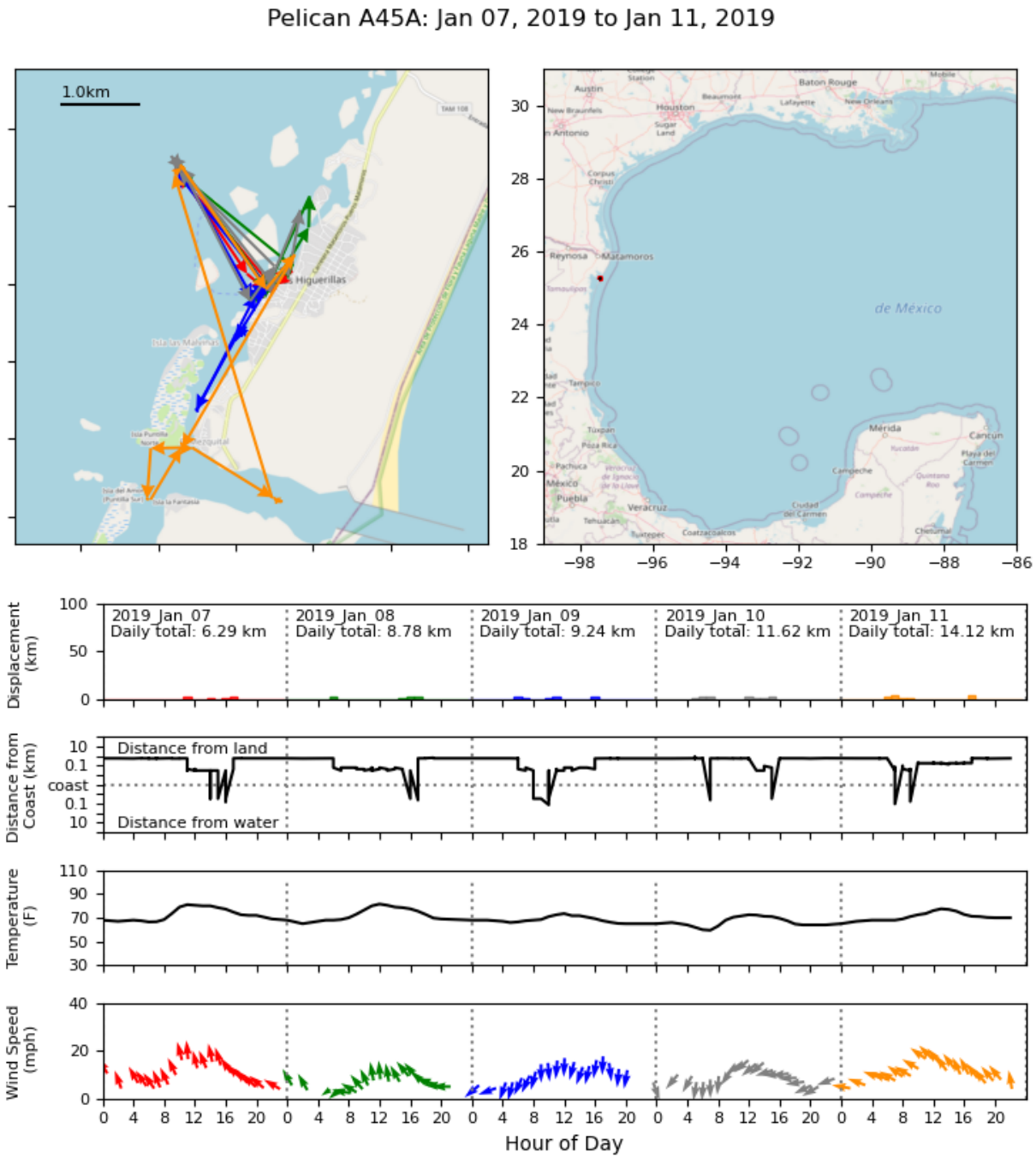

Figure 990 - Maps and graphs showing movements of A45A between 2019-01-07 and 2019-01-10 inclusive.

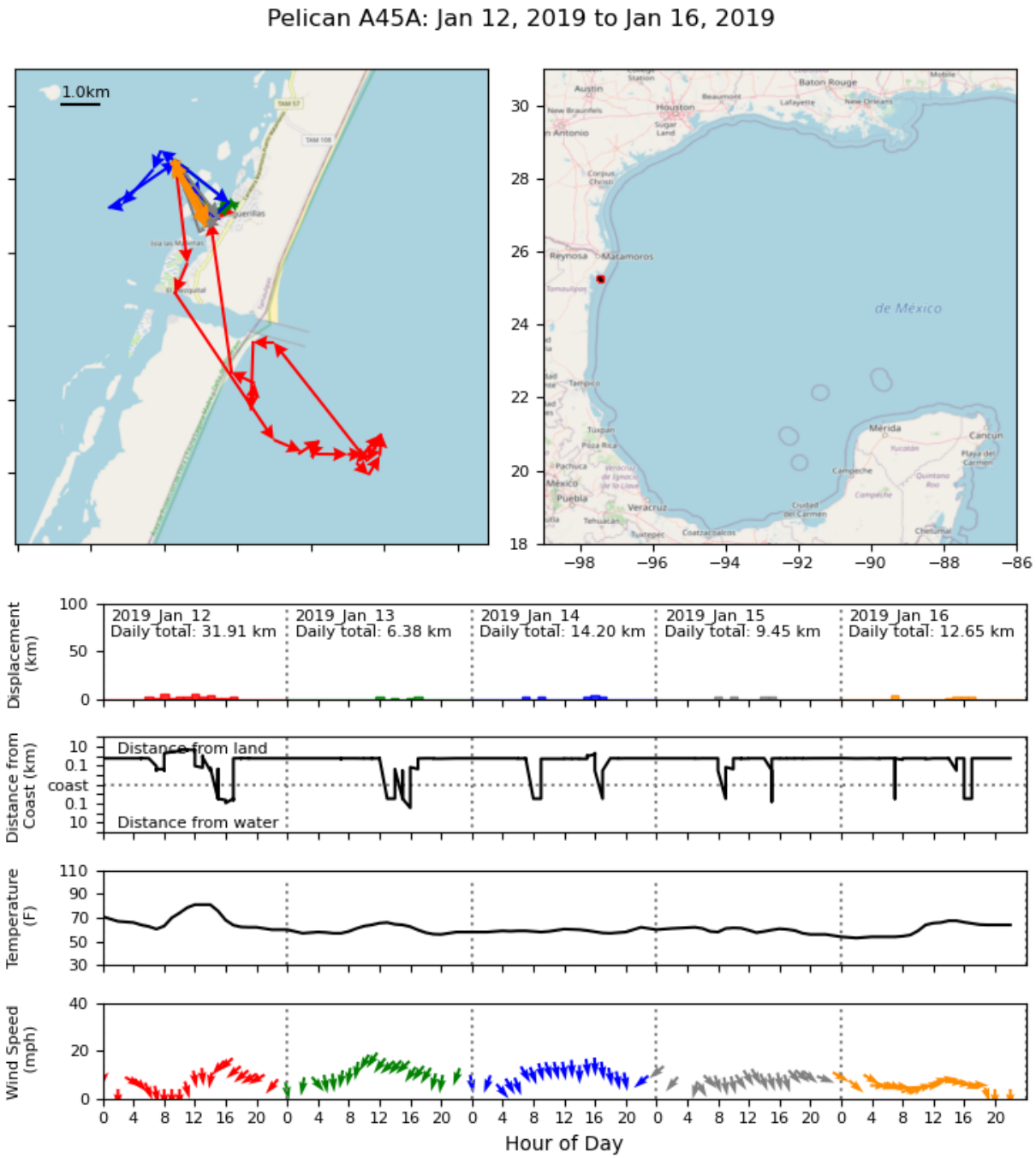

Figure 991 - Maps and graphs showing movements of A45A between 2019-01-12 and 2019-01-15 inclusive.

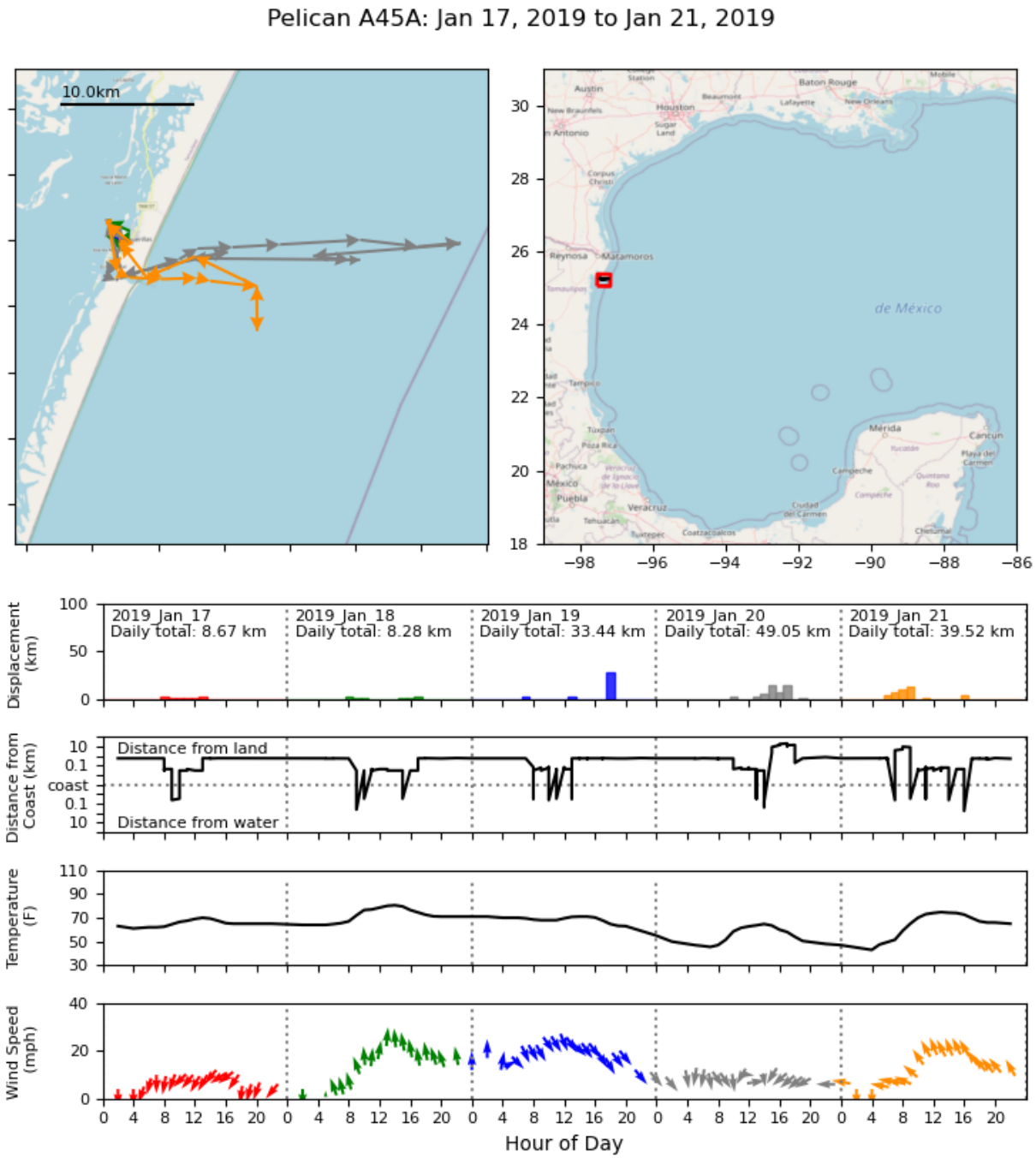

Figure 992 - Maps and graphs showing movements of A45A between 2019-01-17 and 2019-01-20 inclusive.

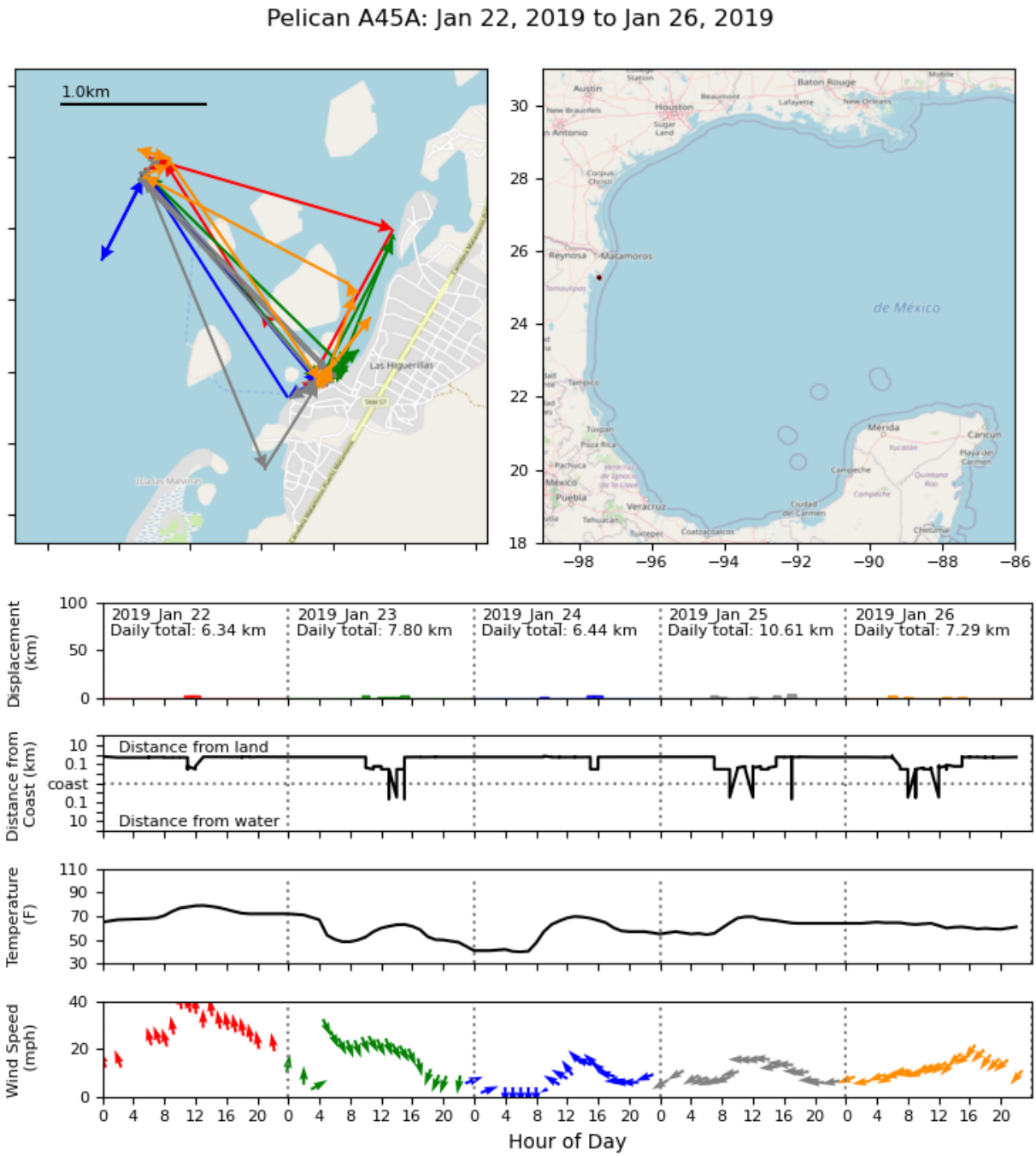

Figure 993 - Maps and graphs showing movements of A45A between 2019-01-22 and 2019-01-25 inclusive.

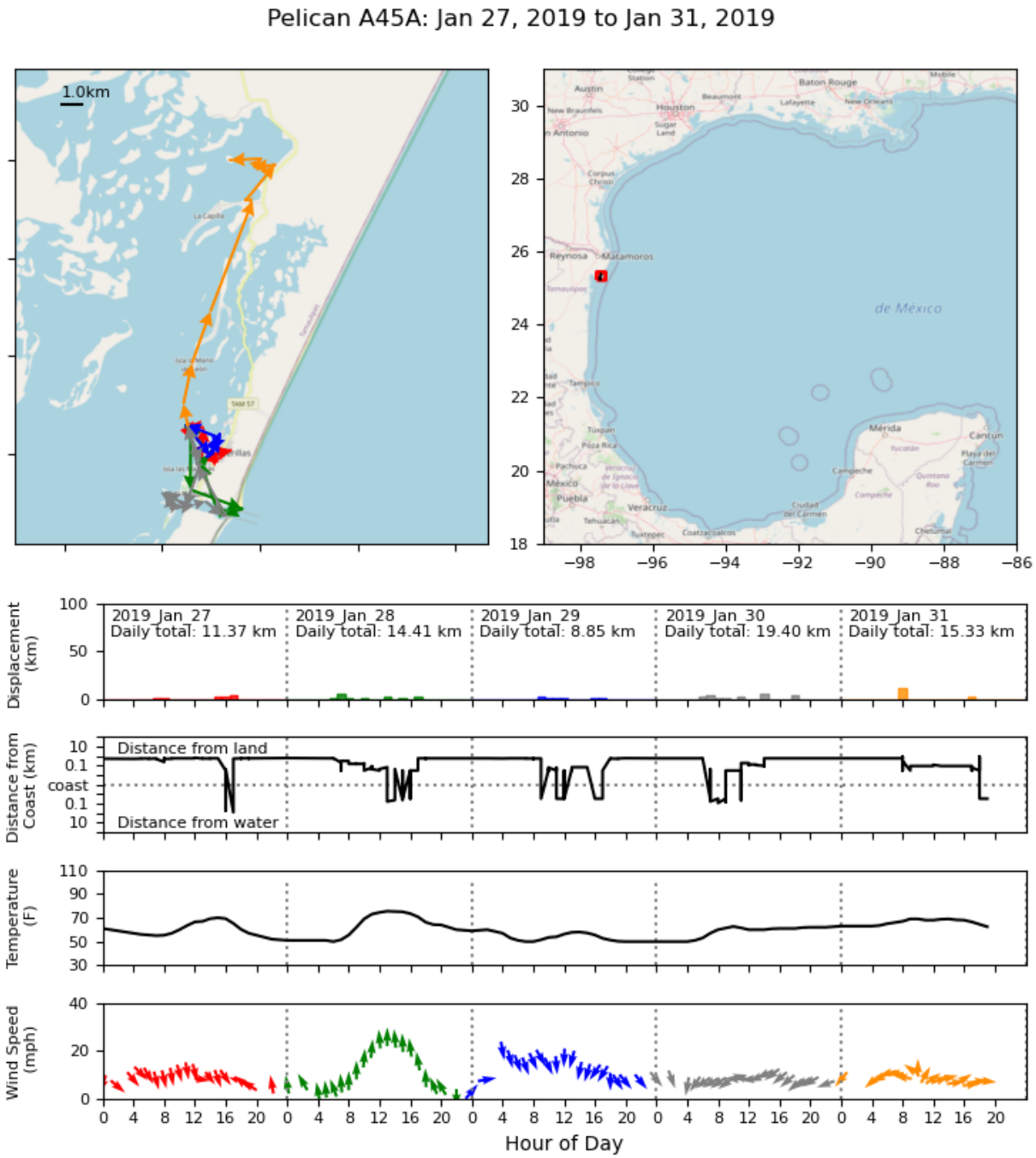

Figure 994 - Maps and graphs showing movements of A45A between 2019-01-27 and 2019-01-30 inclusive.

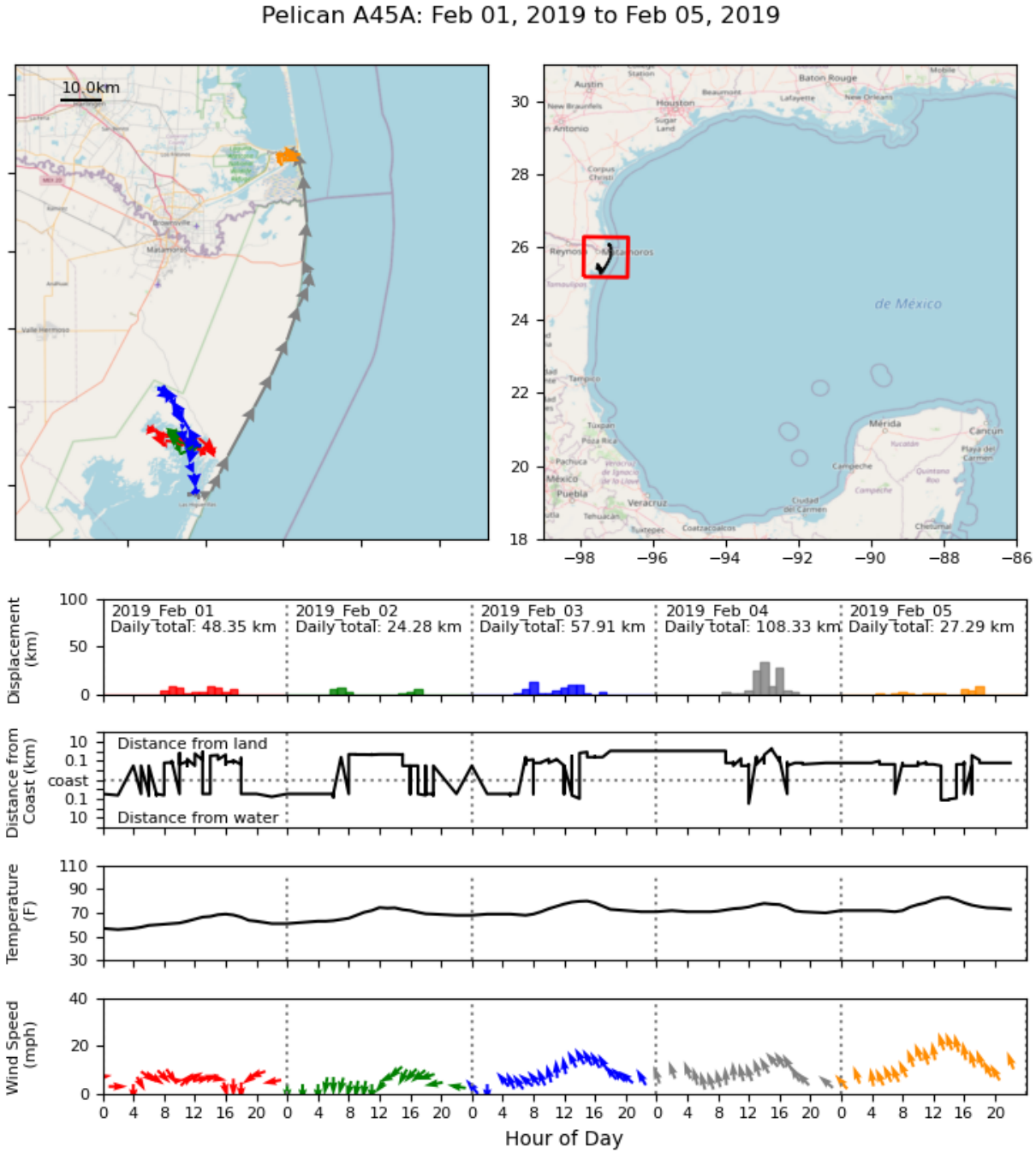

Figure 995 - Maps and graphs showing movements of A45A between 2019-02-01 and 2019-02-04 inclusive.

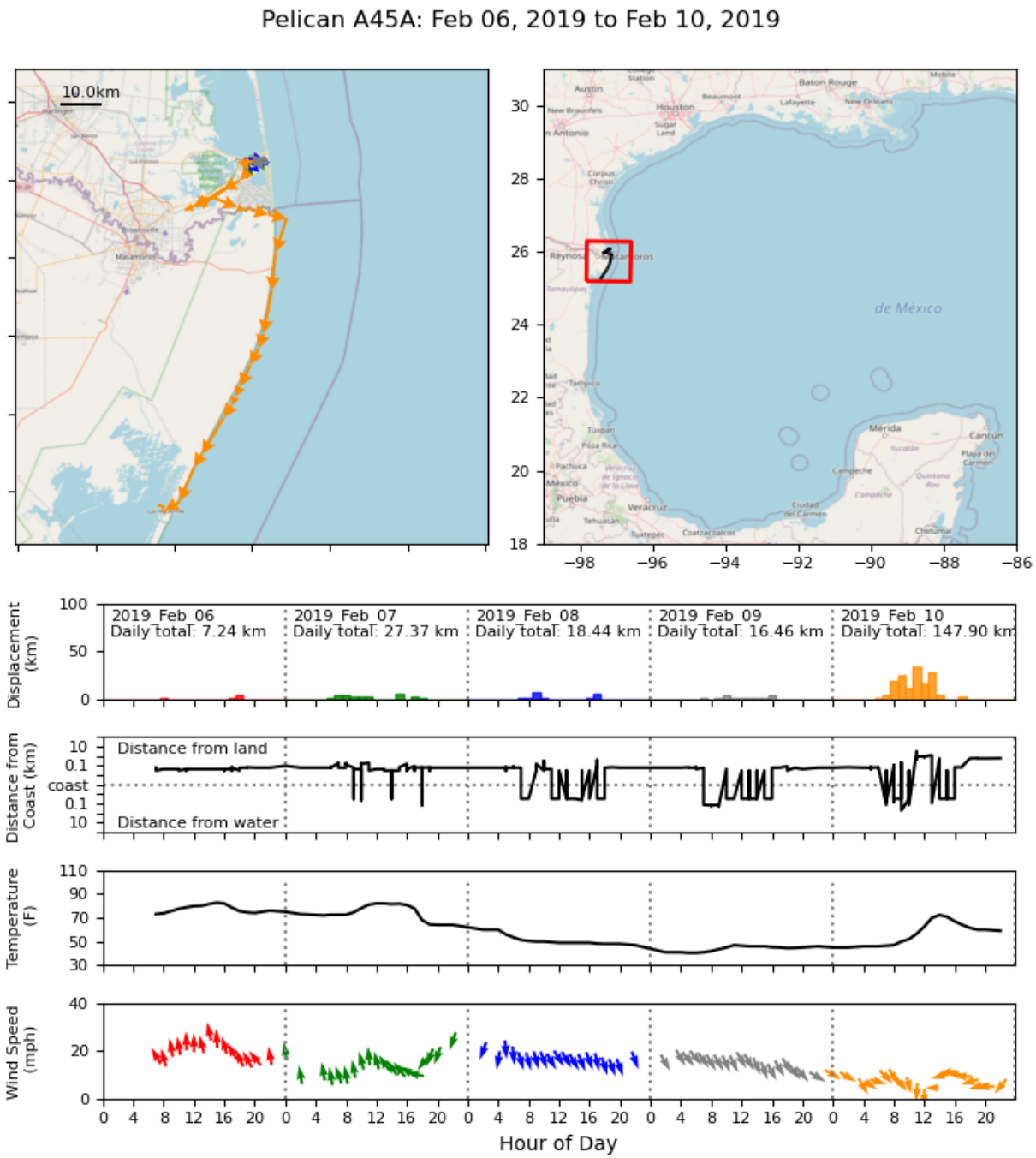

Figure 996 - Maps and graphs showing movements of A45A between 2019-02-06 and 2019-02-09 inclusive.

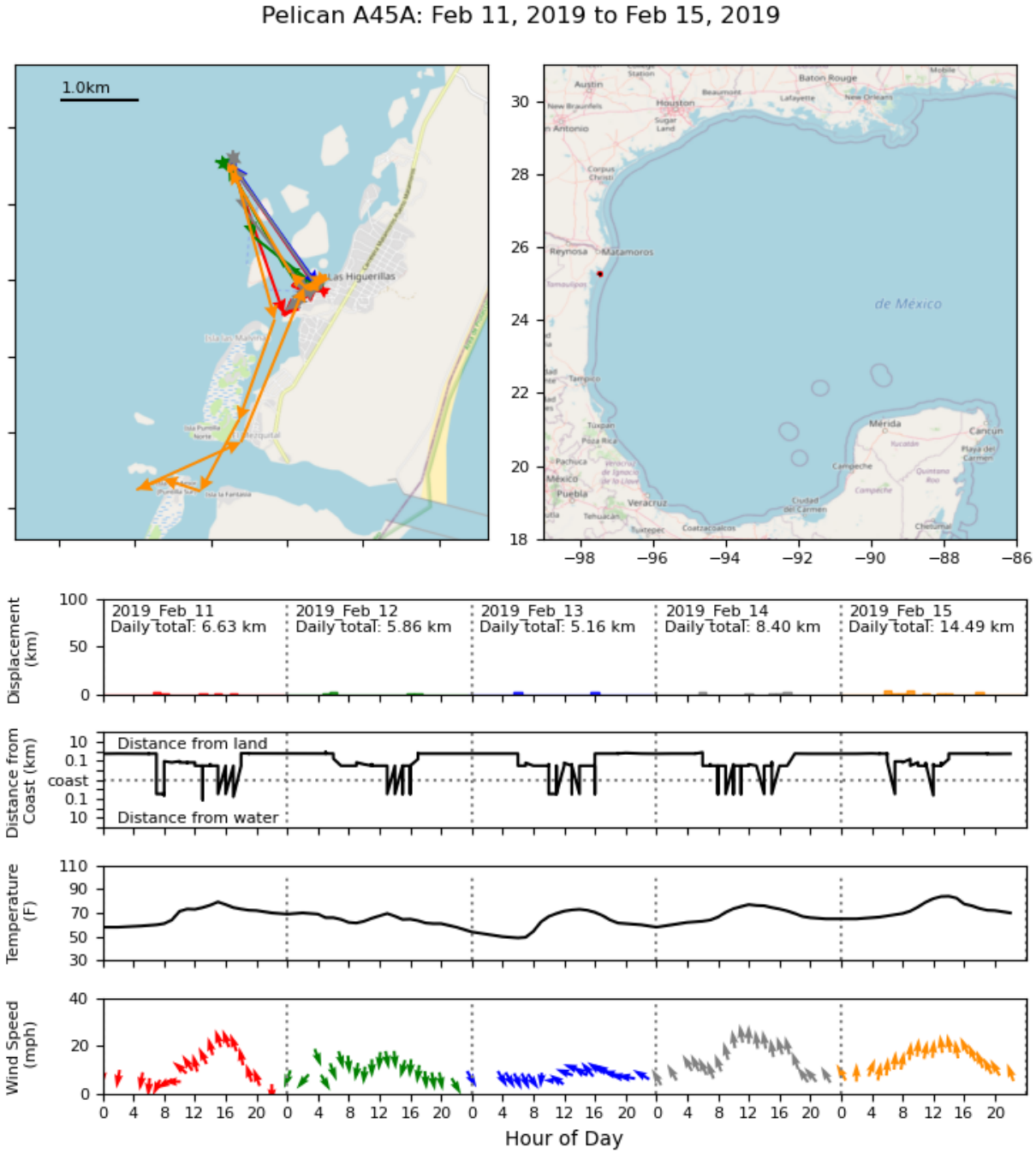

Figure 997 - Maps and graphs showing movements of A45A between 2019-02-11 and 2019-02-14 inclusive.

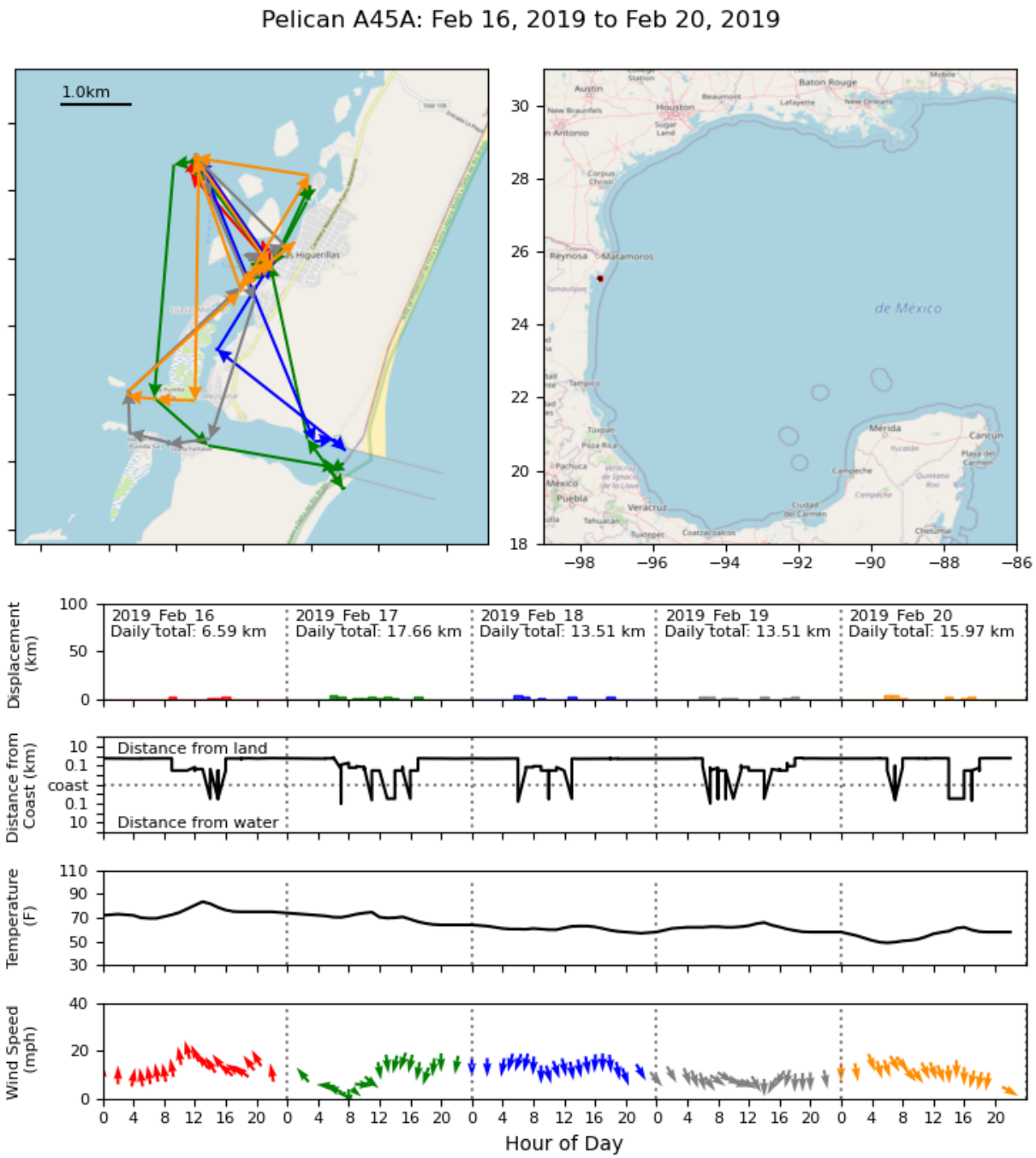

Figure 998 - Maps and graphs showing movements of A45A between 2019-02-16 and 2019-02-19 inclusive.

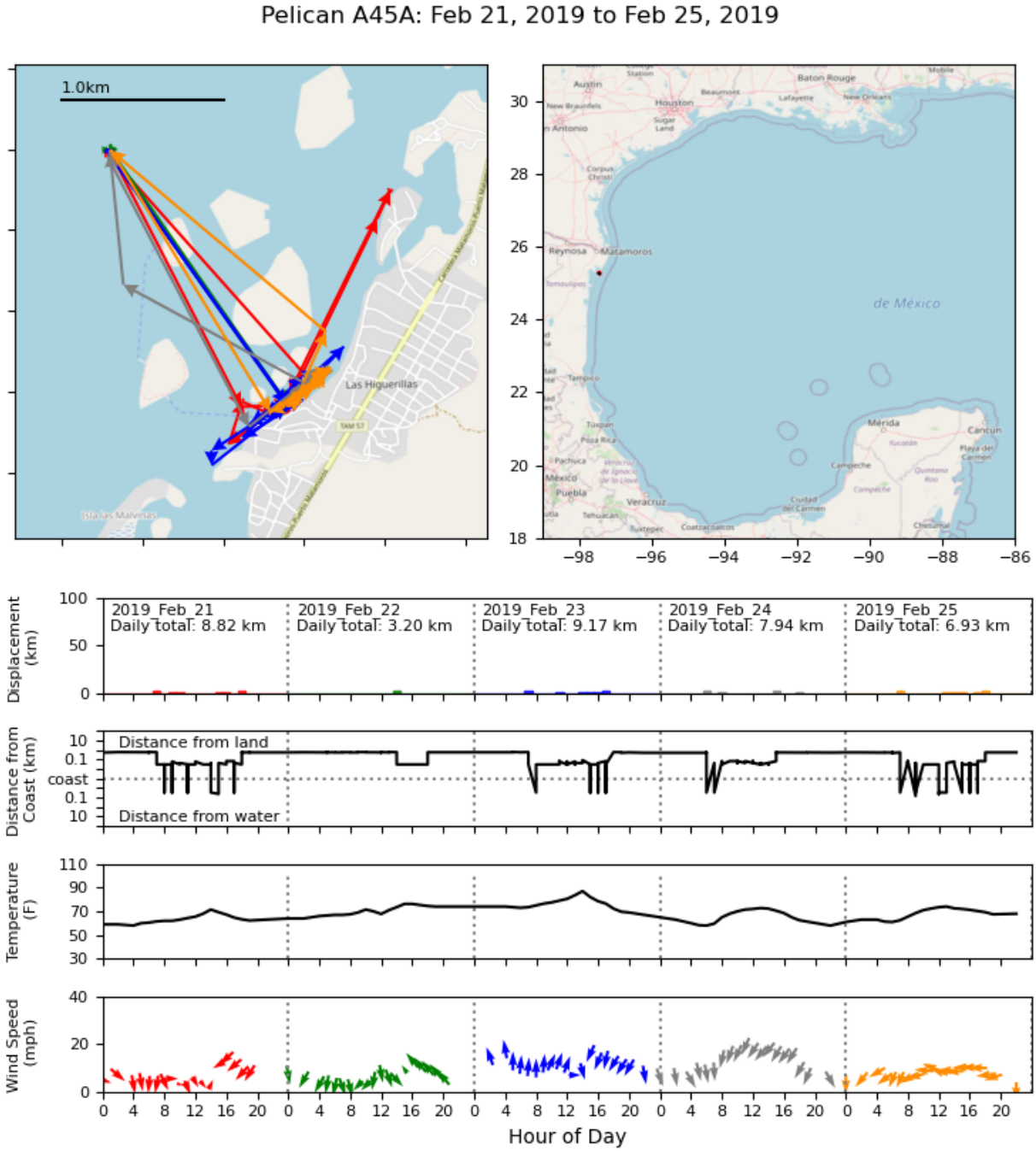

Figure 999 - Maps and graphs showing movements of A45A between 2019-02-21 and 2019-02-24 inclusive.

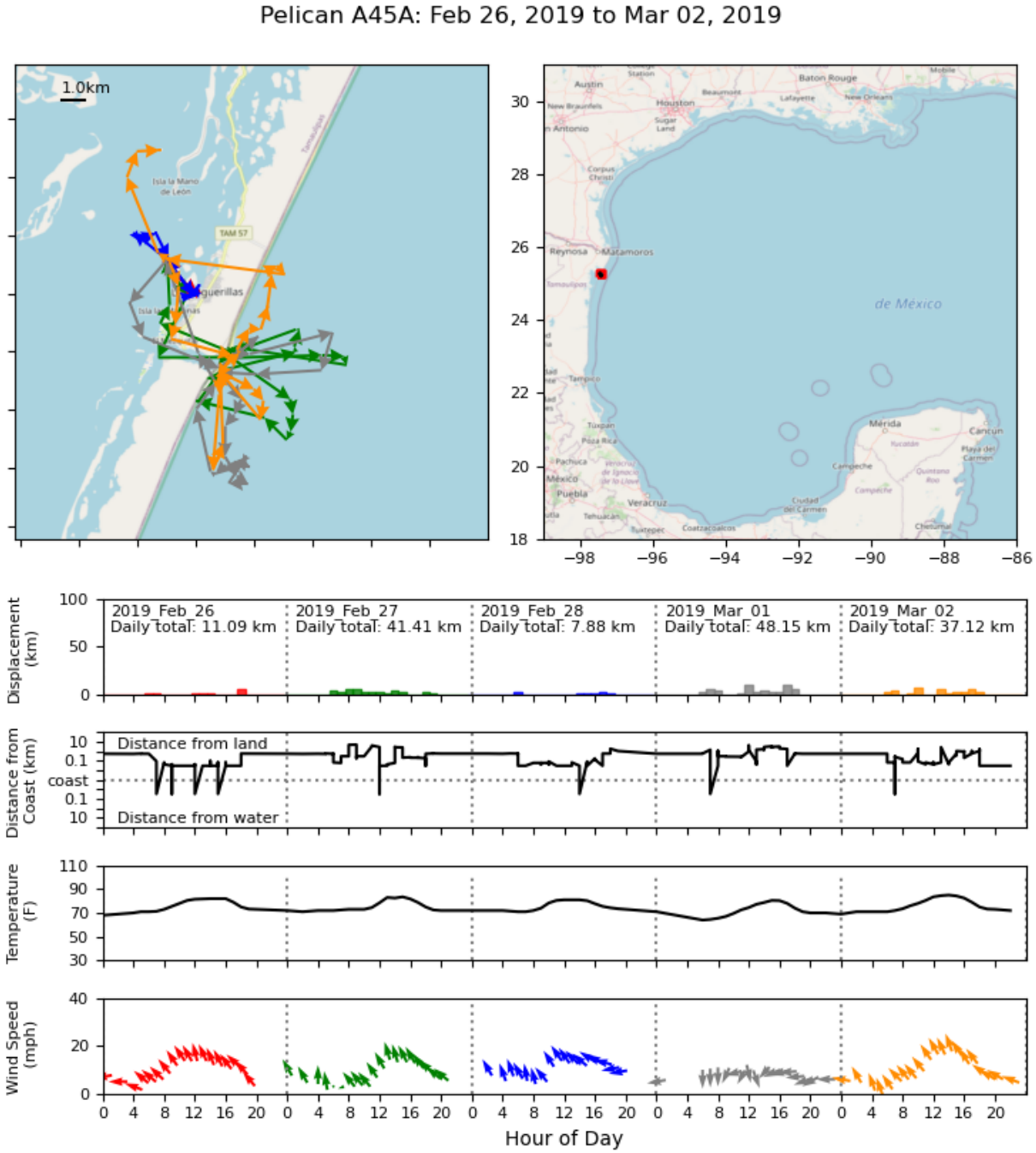

Figure 1000 - Maps and graphs showing movements of A45A between 2019-02-26 and 2019-03-01 inclusive.

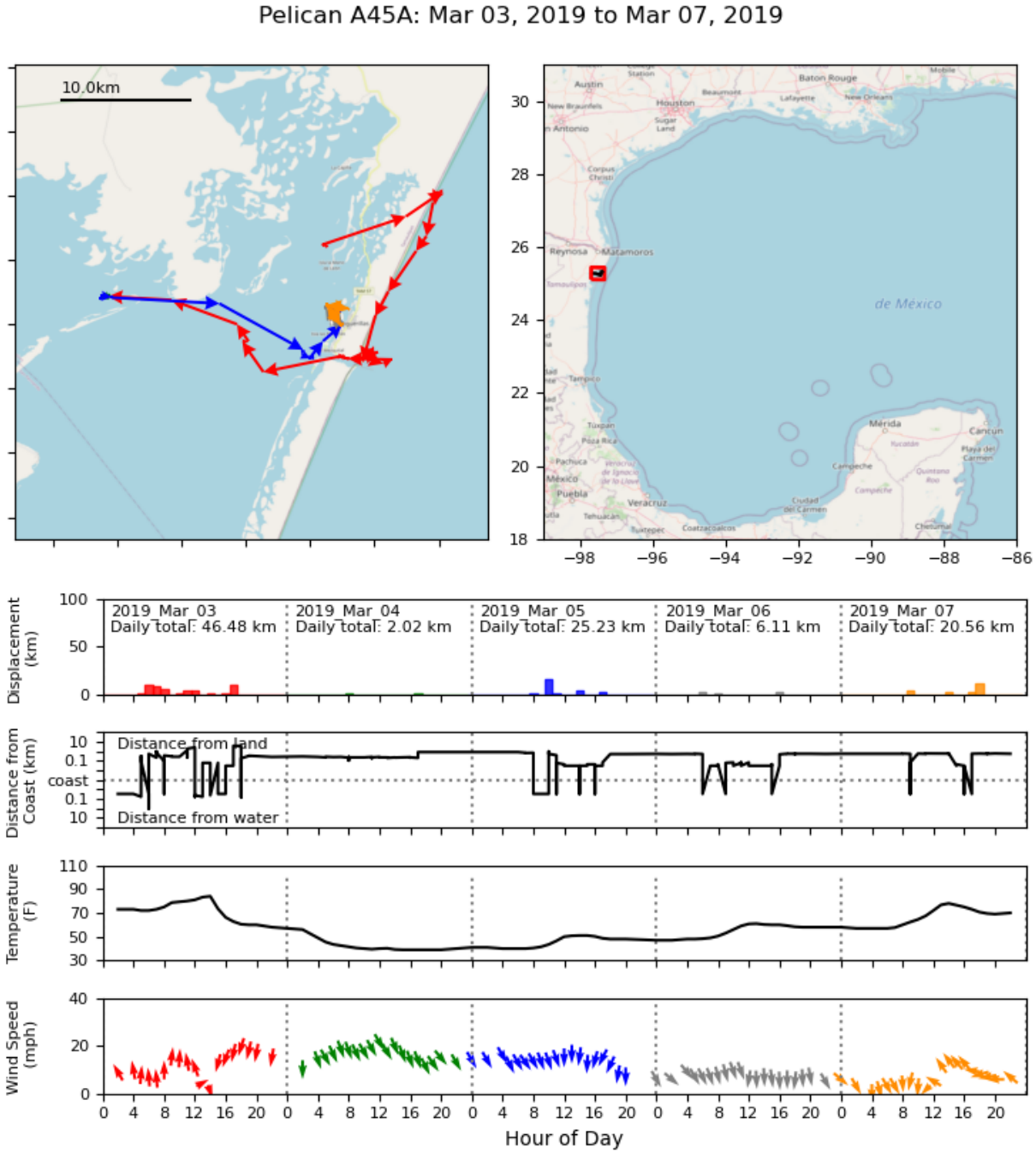

Figure 1001 - Maps and graphs showing movements of A45A between 2019-03-03 and 2019-03-06 inclusive.

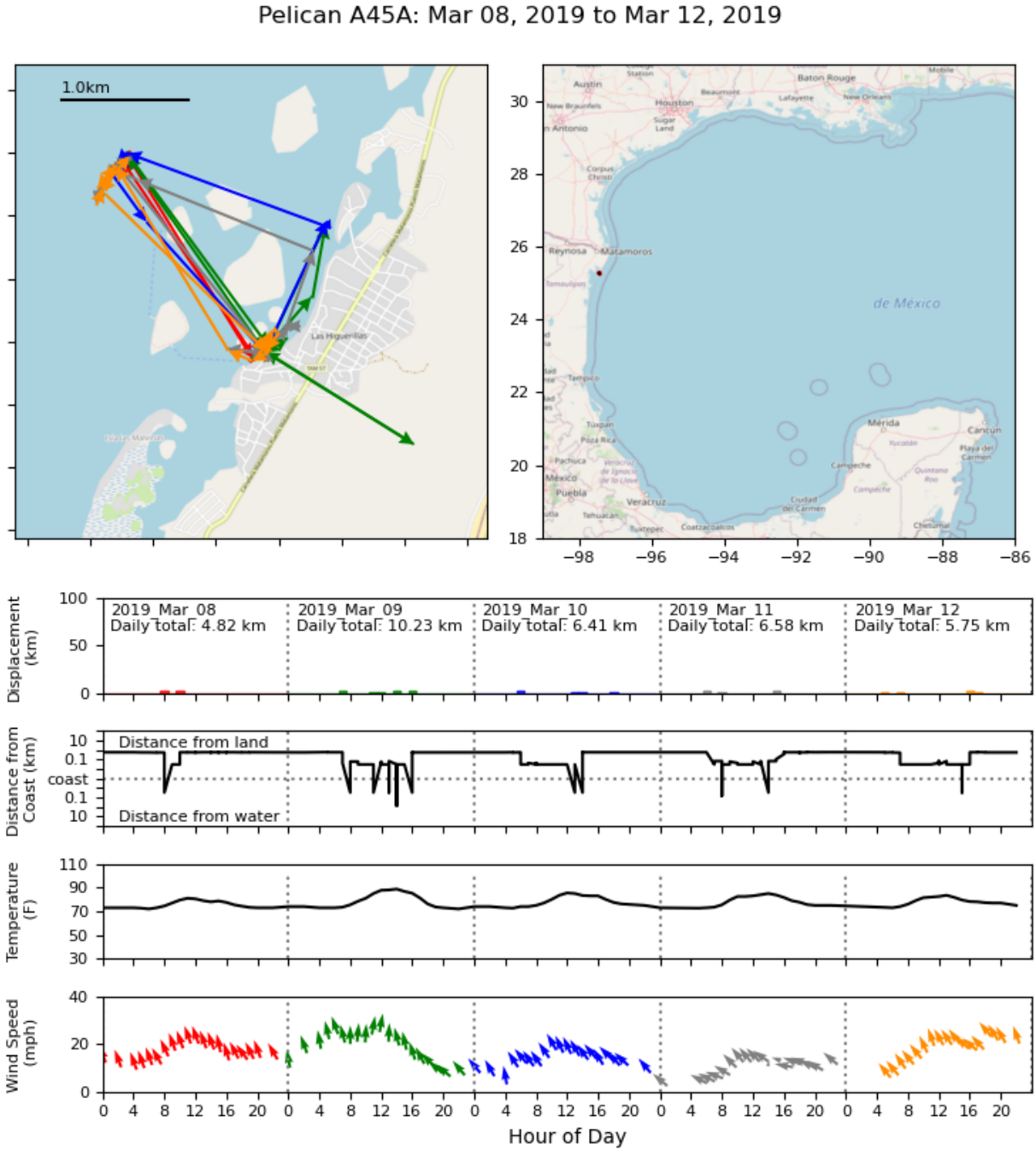

Figure 1002 - Maps and graphs showing movements of A45A between 2019-03-08 and 2019-03-11 inclusive.

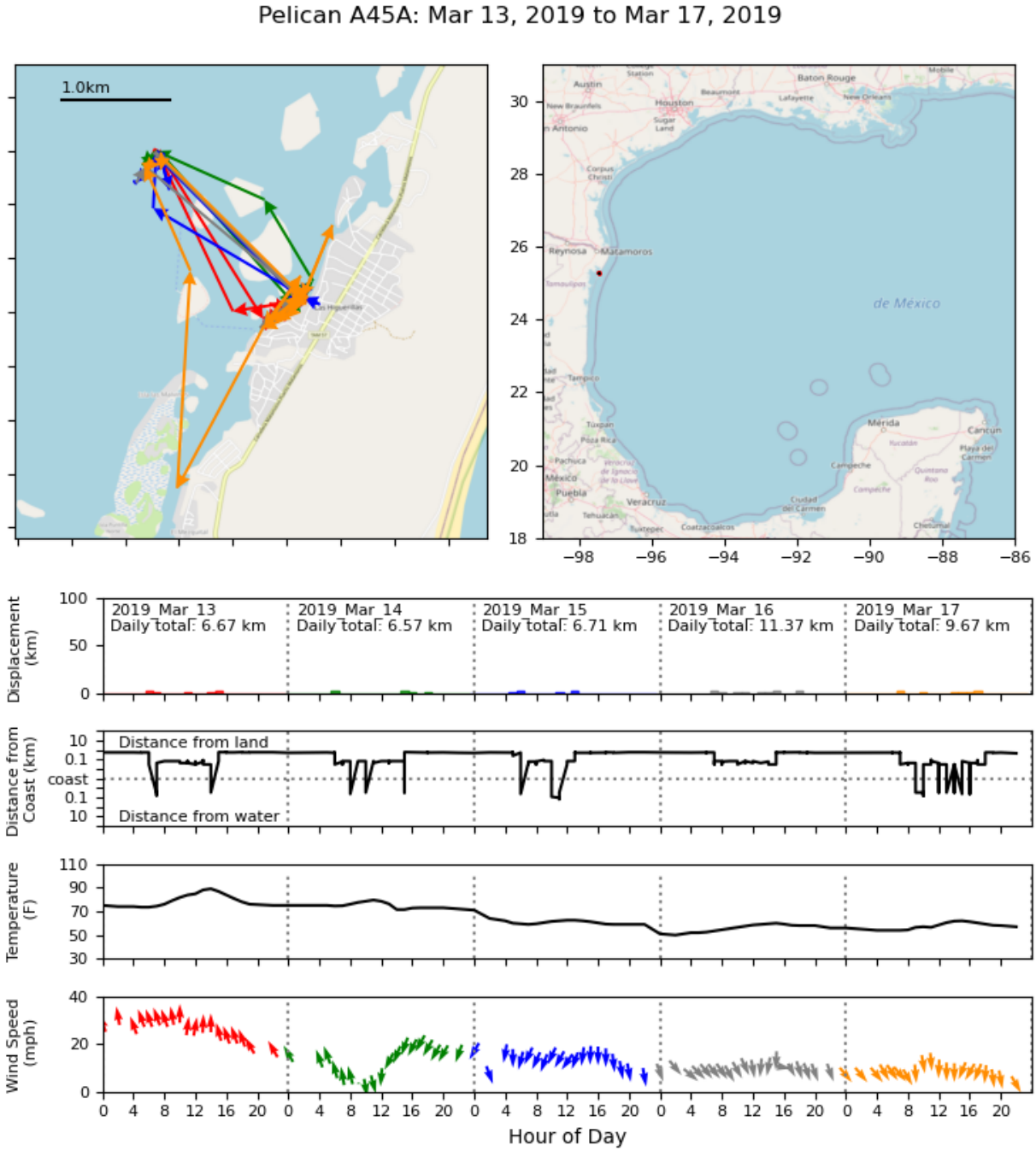

Figure 1003 - Maps and graphs showing movements of A45A between 2019-03-13 and 2019-03-16 inclusive.

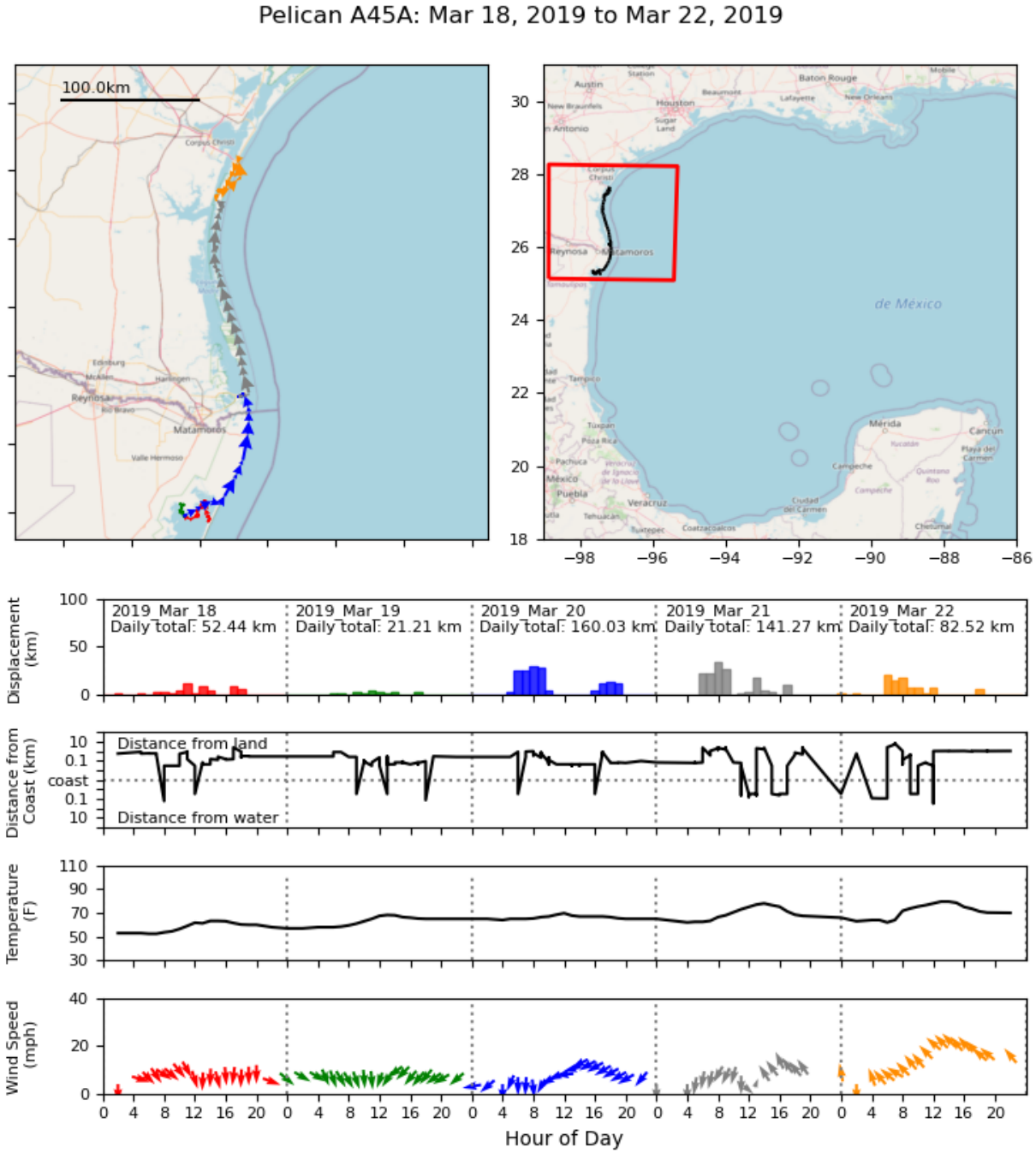

Figure 1004 - Maps and graphs showing movements of A45A between 2019-03-18 and 2019-03-21 inclusive.

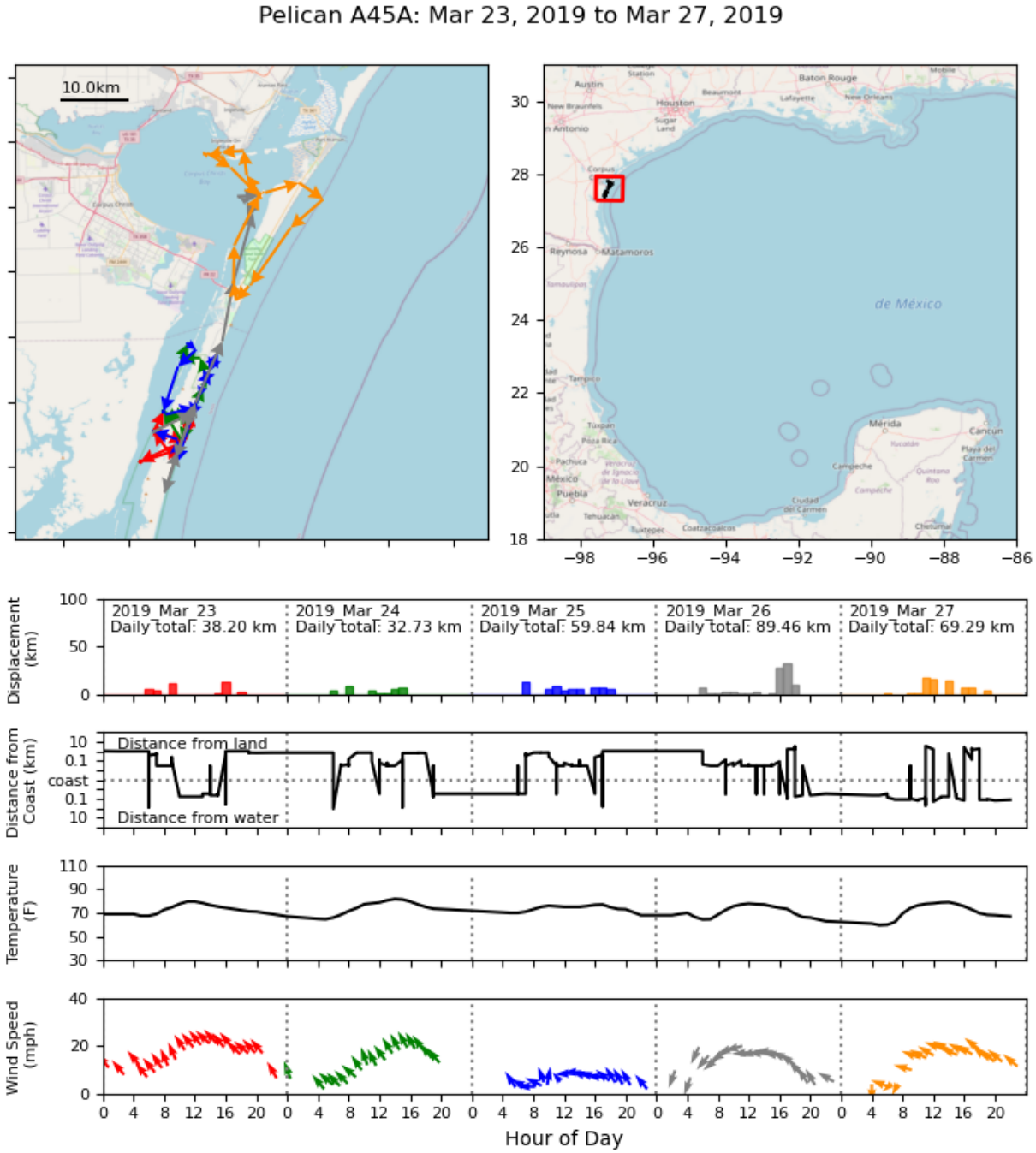

Figure 1005 - Maps and graphs showing movements of A45A between 2019-03-23 and 2019-03-26 inclusive.

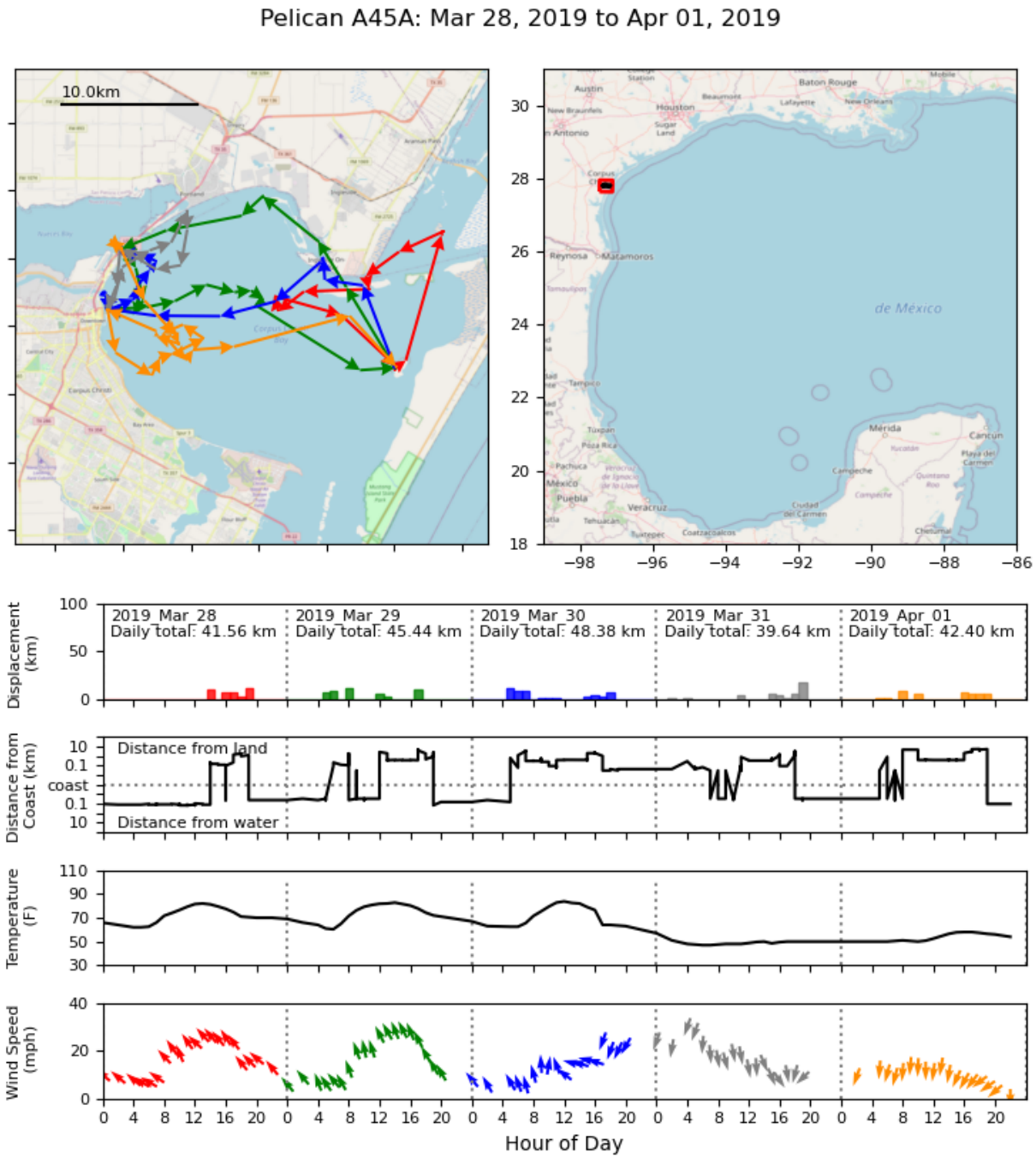

Figure 1006 - Maps and graphs showing movements of A45A between 2019-03-28 and 2019-03-31 inclusive.

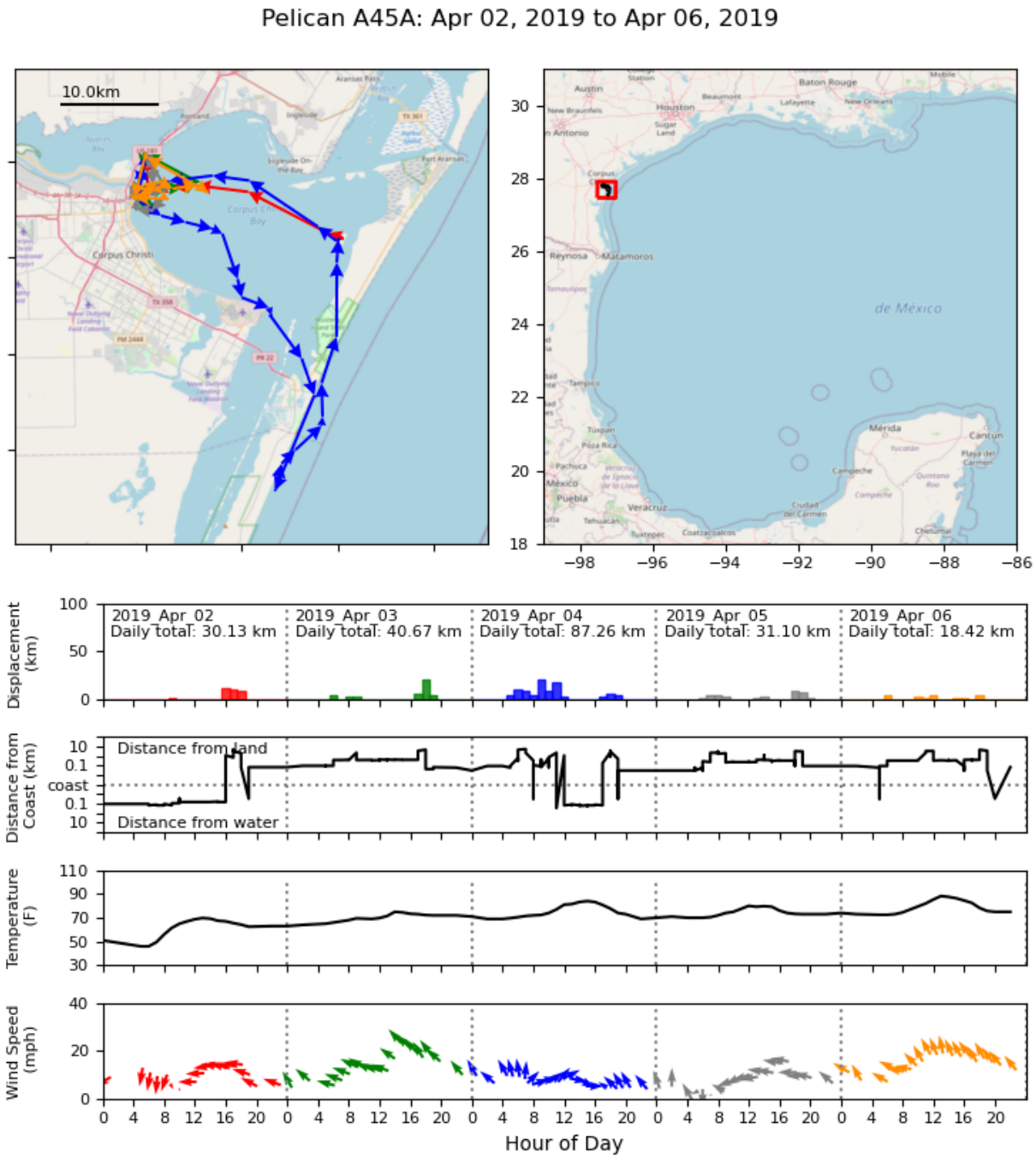

Figure 1007 - Maps and graphs showing movements of A45A between 2019-04-02 and 2019-04-05 inclusive.

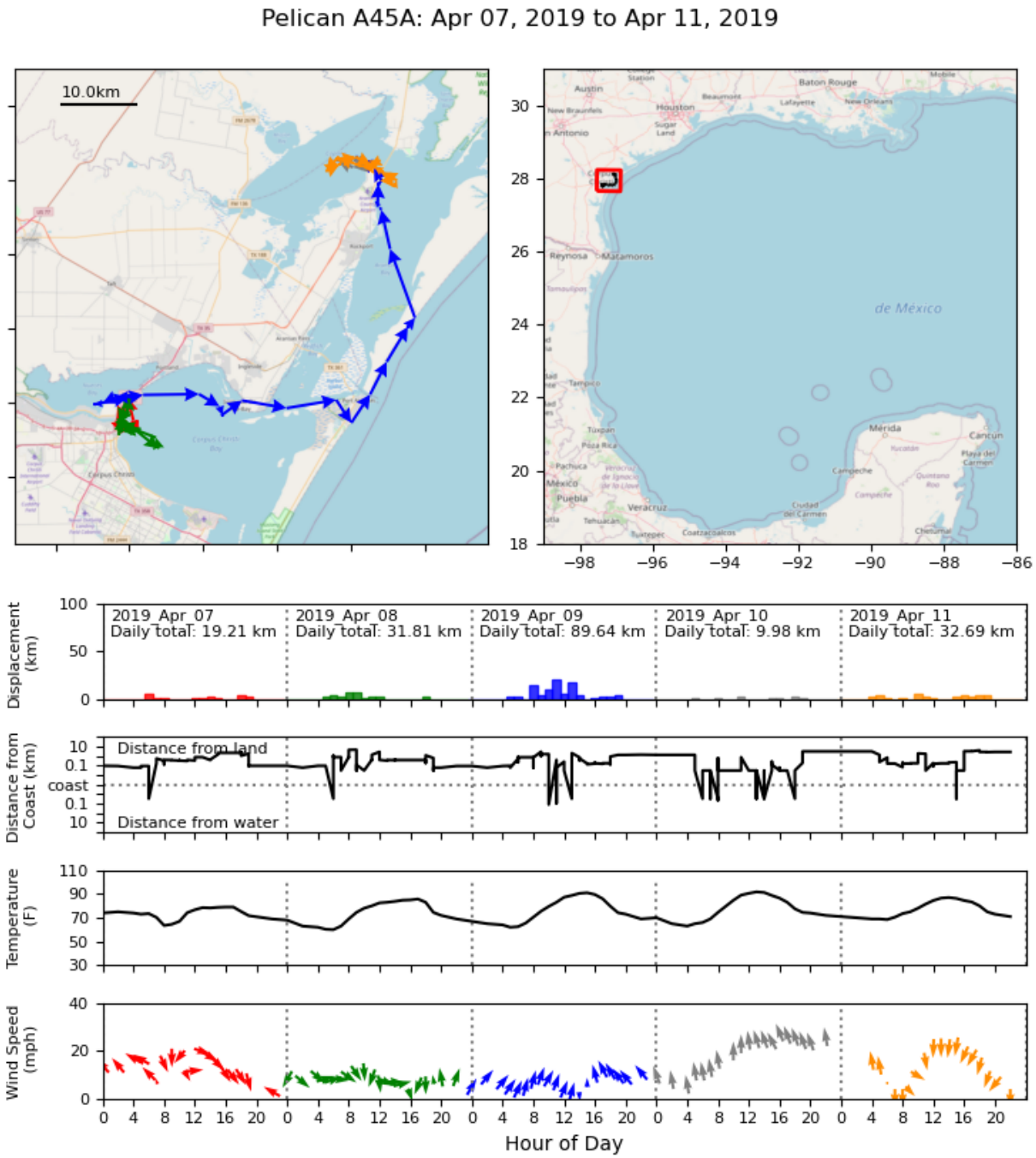

Figure 1008 - Maps and graphs showing movements of A45A between 2019-04-07 and 2019-04-10 inclusive.

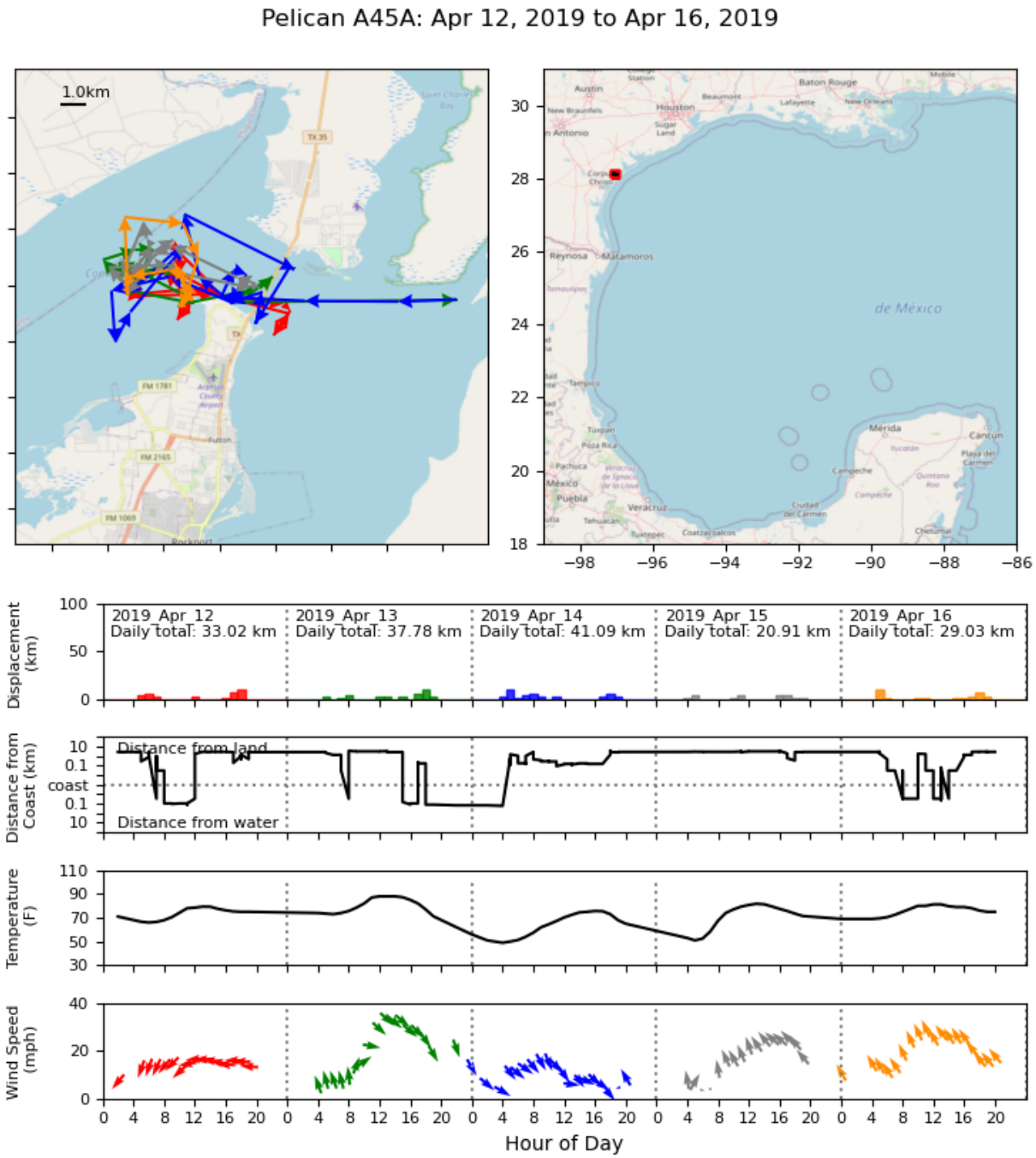

Figure 1009 - Maps and graphs showing movements of A45A between 2019-04-12 and 2019-04-15 inclusive.

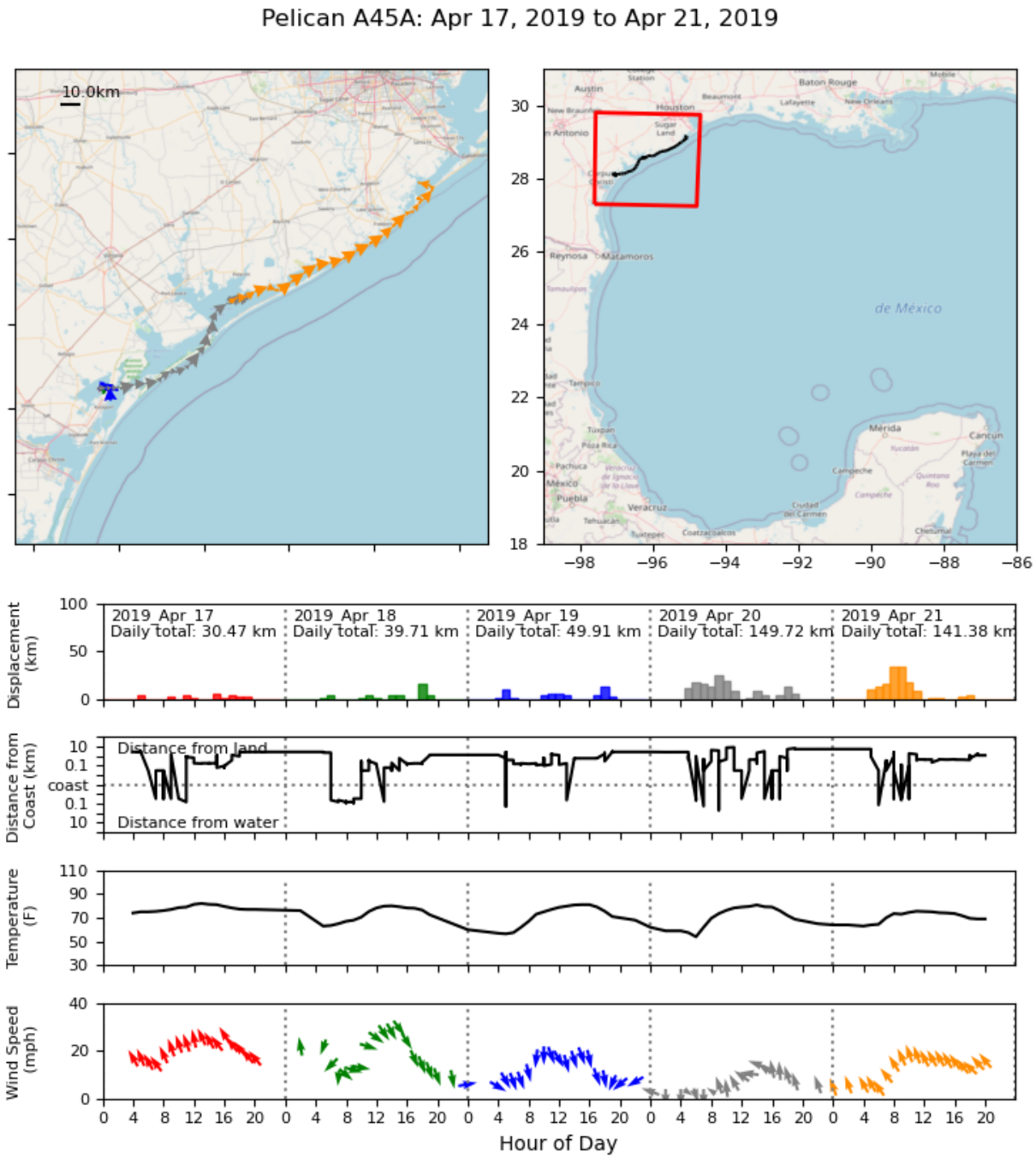

Figure 1010 - Maps and graphs showing movements of A45A between 2019-04-17 and 2019-04-20 inclusive.

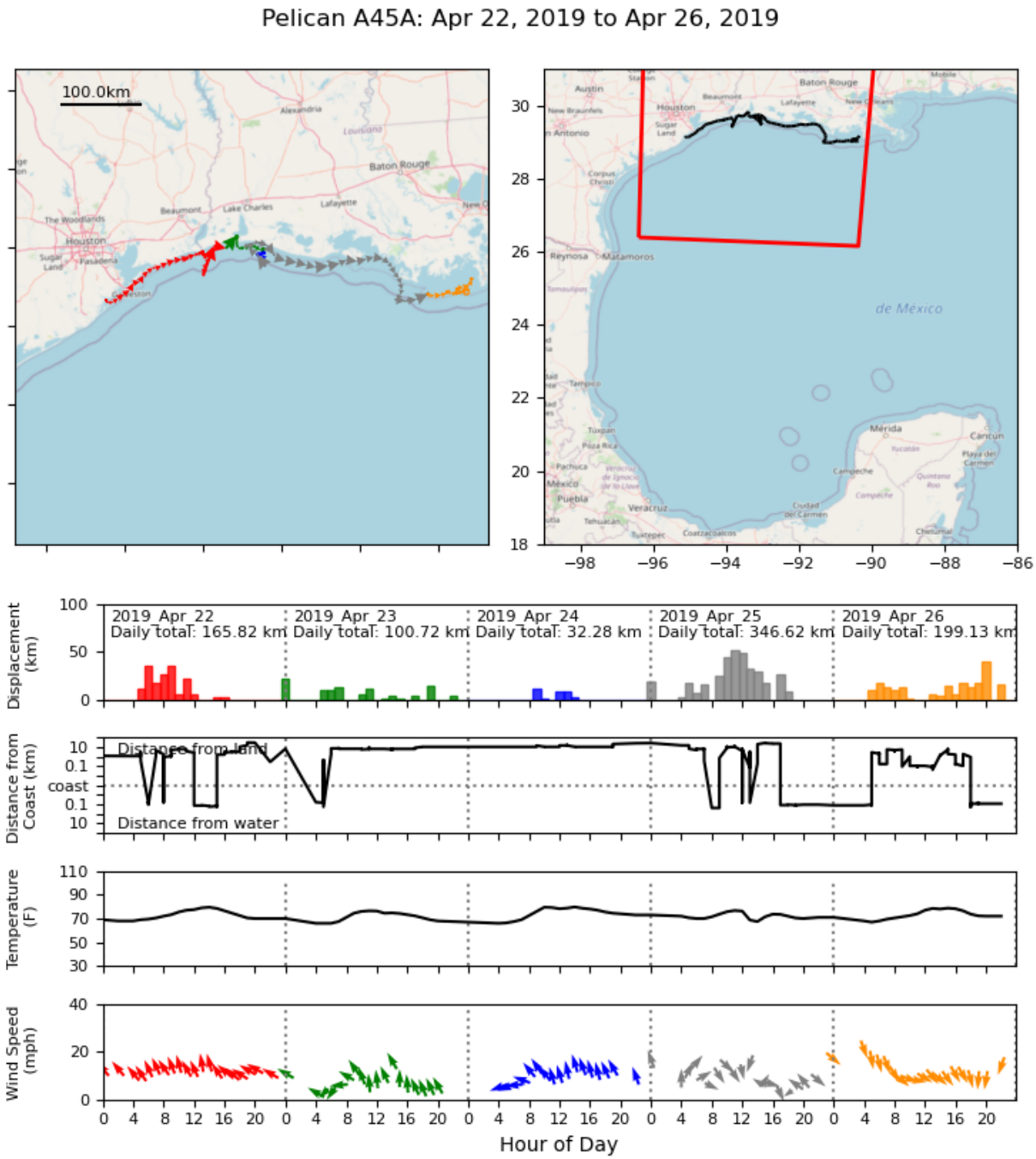

Figure 1011 - Maps and graphs showing movements of A45A between 2019-04-22 and 2019-04-25 inclusive.

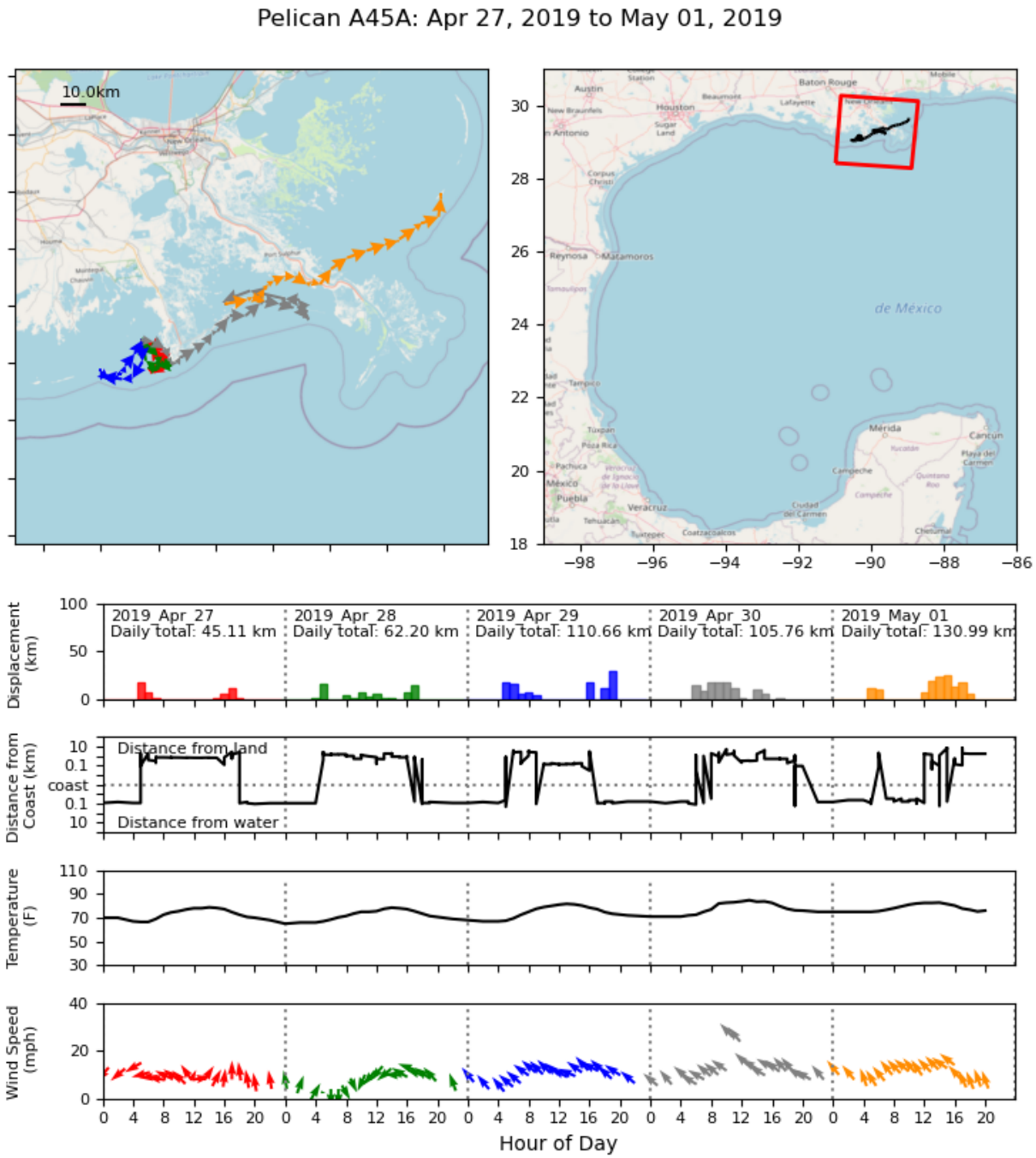

Figure 1012 - Maps and graphs showing movements of A45A between 2019-04-27 and 2019-04-30 inclusive.

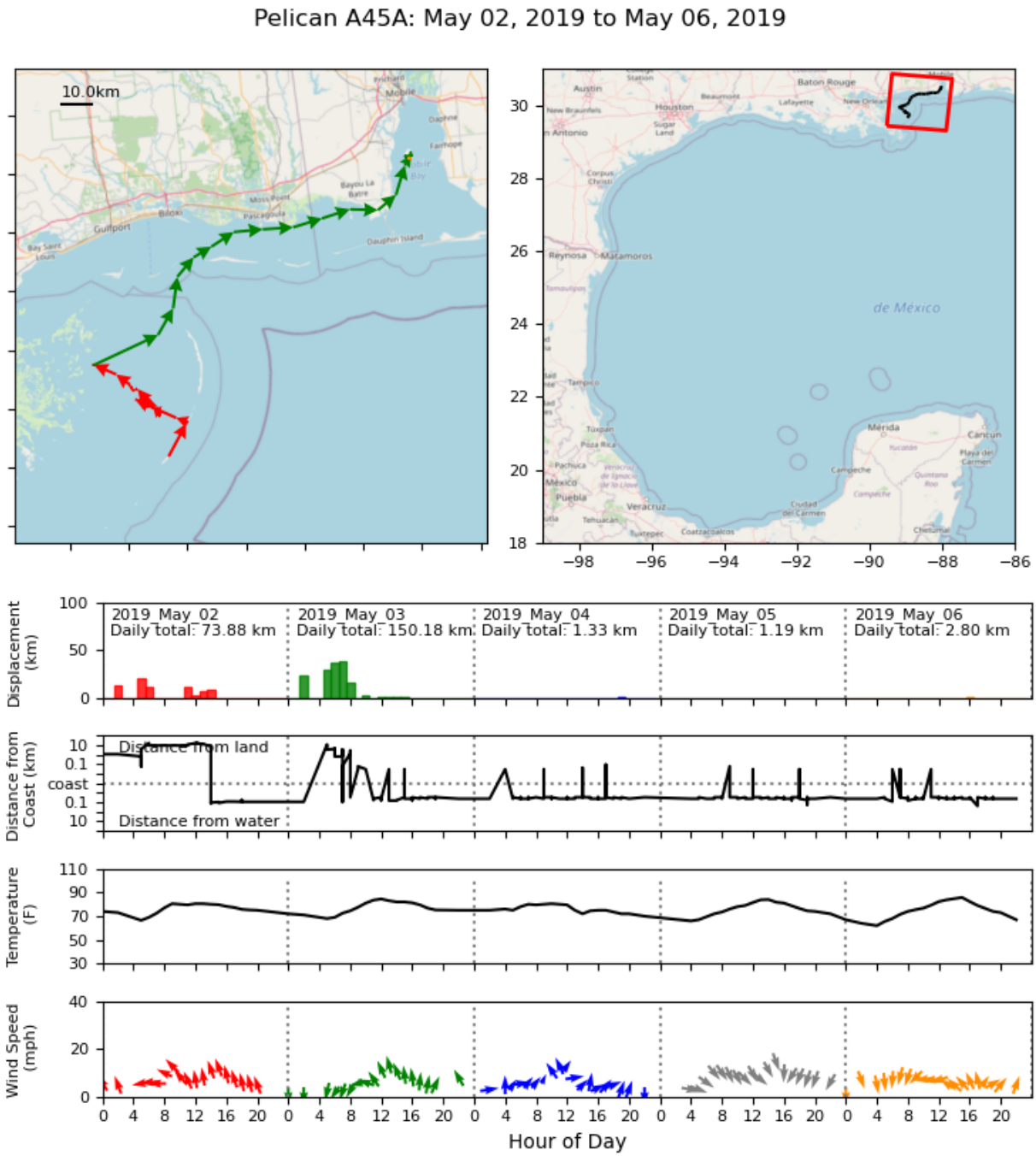

Figure 1013 - Maps and graphs showing movements of A45A between 2019-05-02 and 2019-05-05 inclusive.

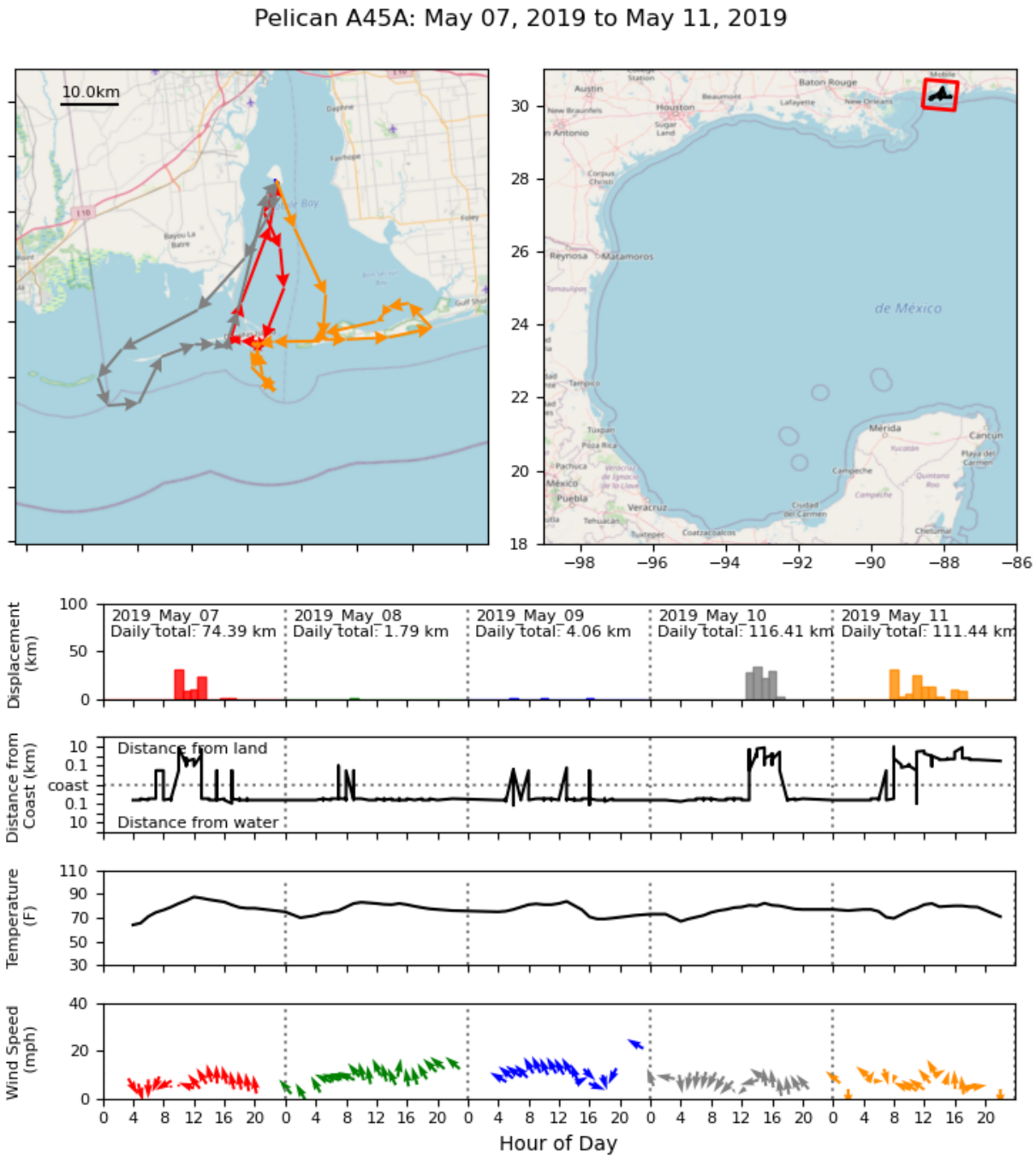

Figure 1014 - Maps and graphs showing movements of A45A between 2019-05-07 and 2019-05-10 inclusive.

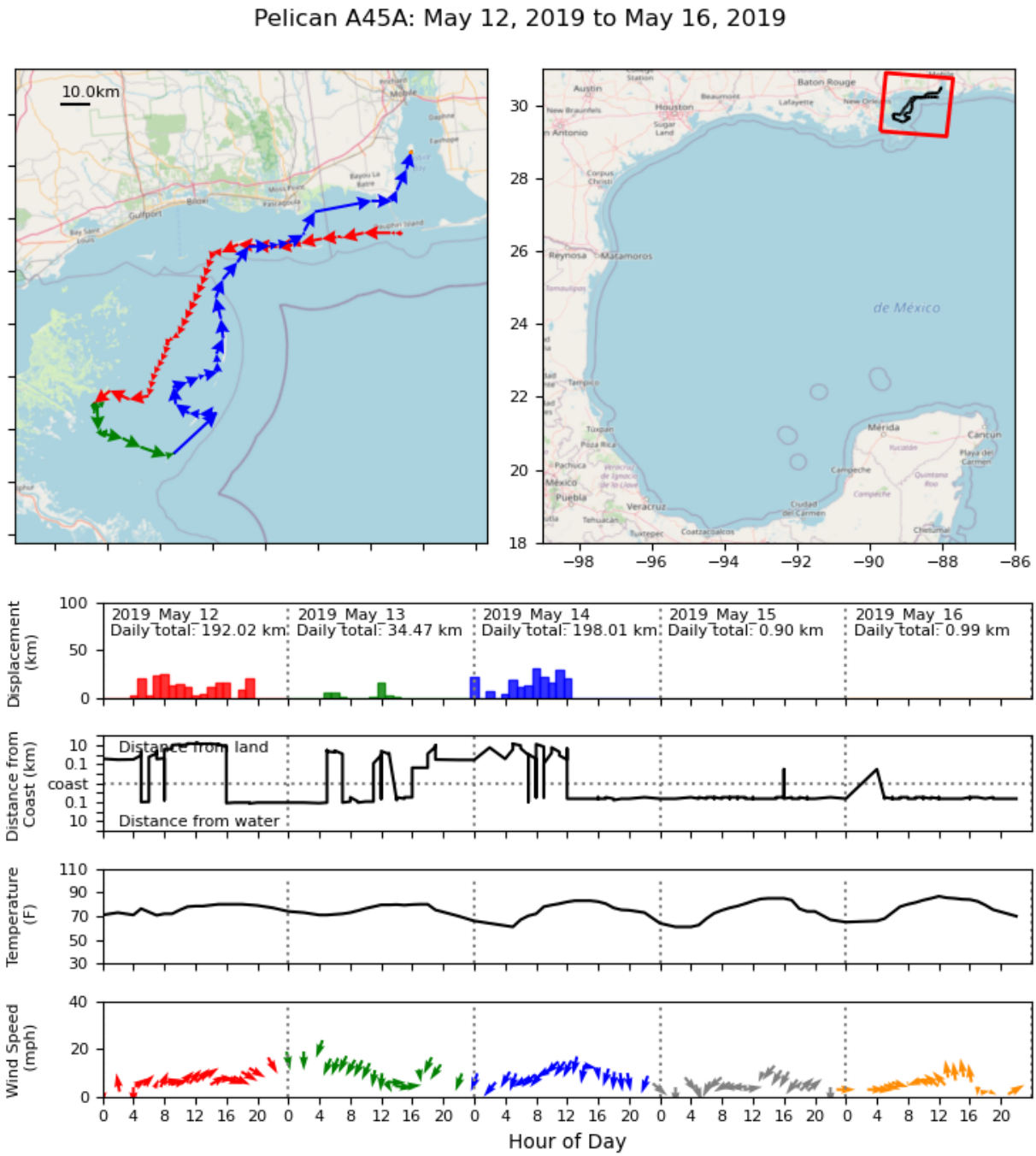

Figure 1015 - Maps and graphs showing movements of A45A between 2019-05-12 and 2019-05-15 inclusive.

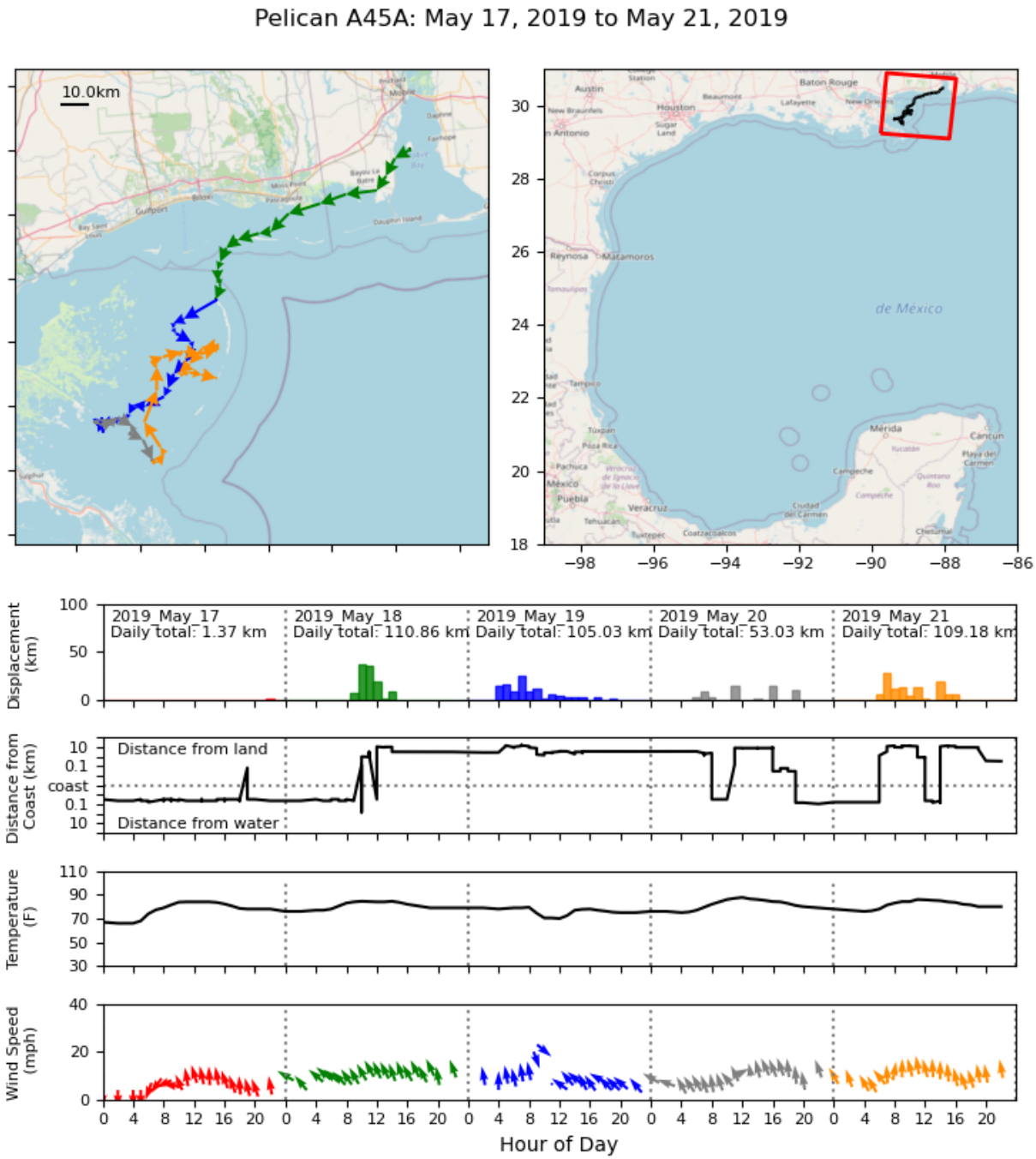

Figure 1016 - Maps and graphs showing movements of A45A between 2019-05-17 and 2019-05-20 inclusive.

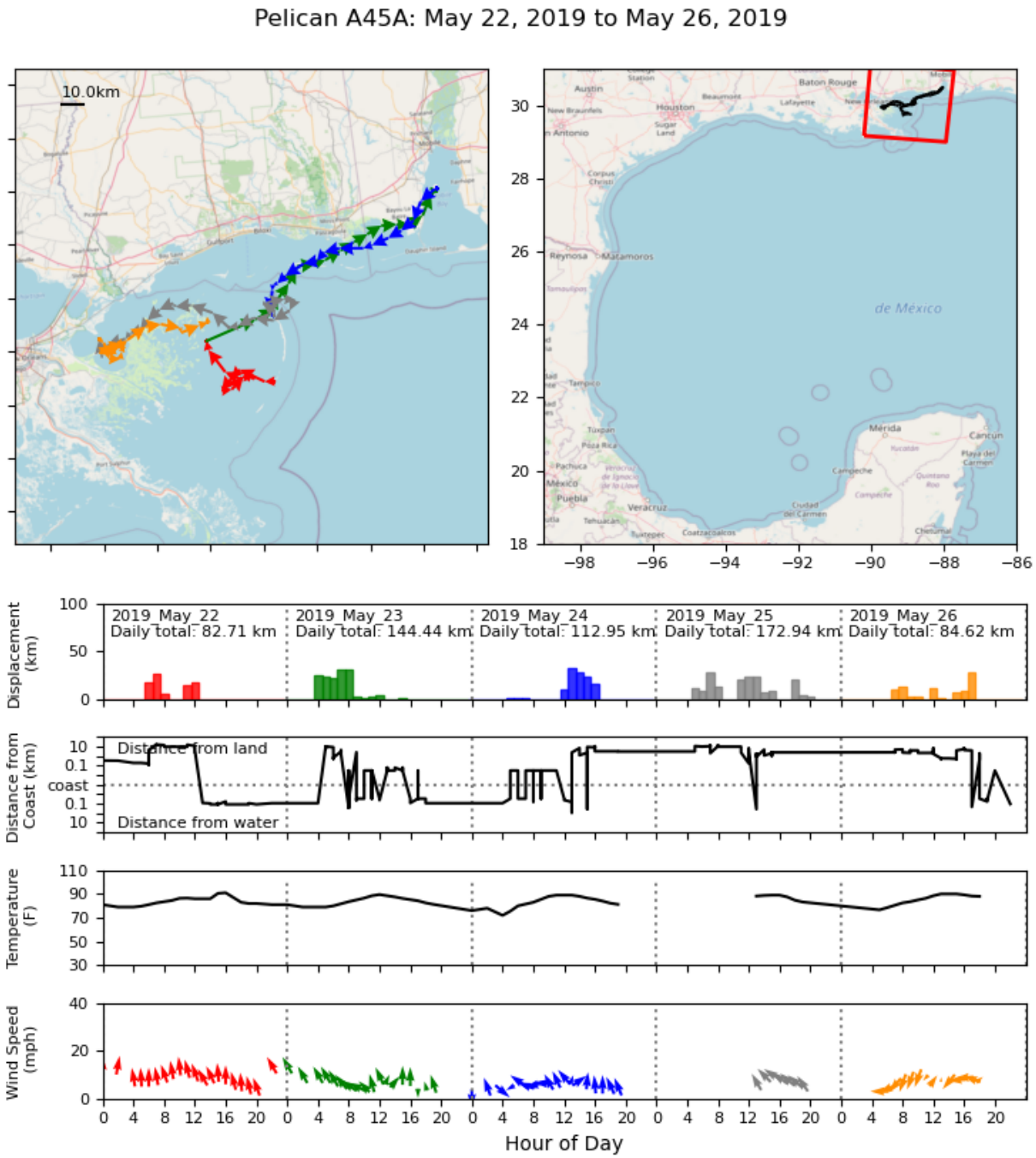

Figure 1017 - Maps and graphs showing movements of A45A between 2019-05-22 and 2019-05-25 inclusive.

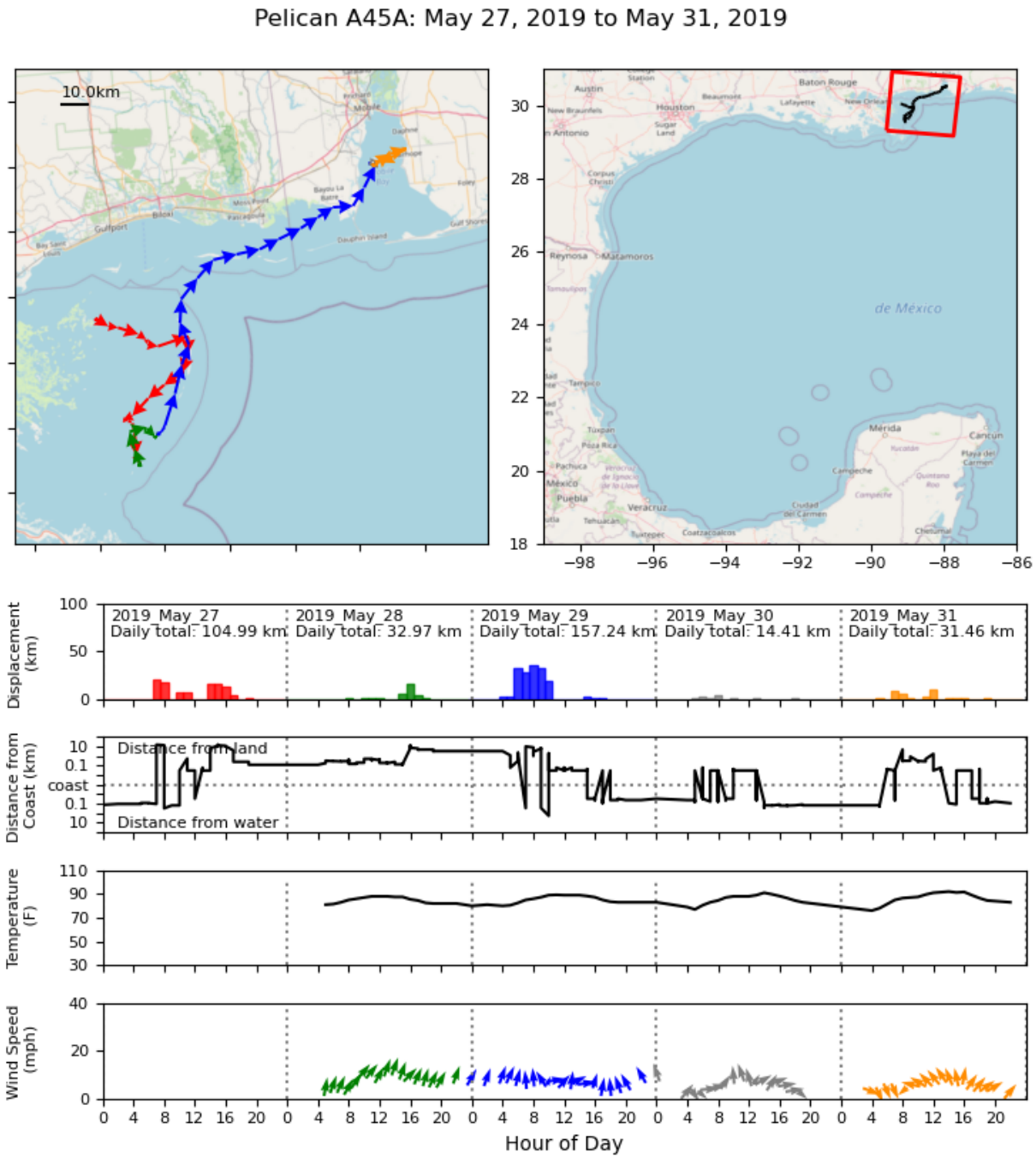

Figure 1018 - Maps and graphs showing movements of A45A between 2019-05-27 and 2019-05-30 inclusive.

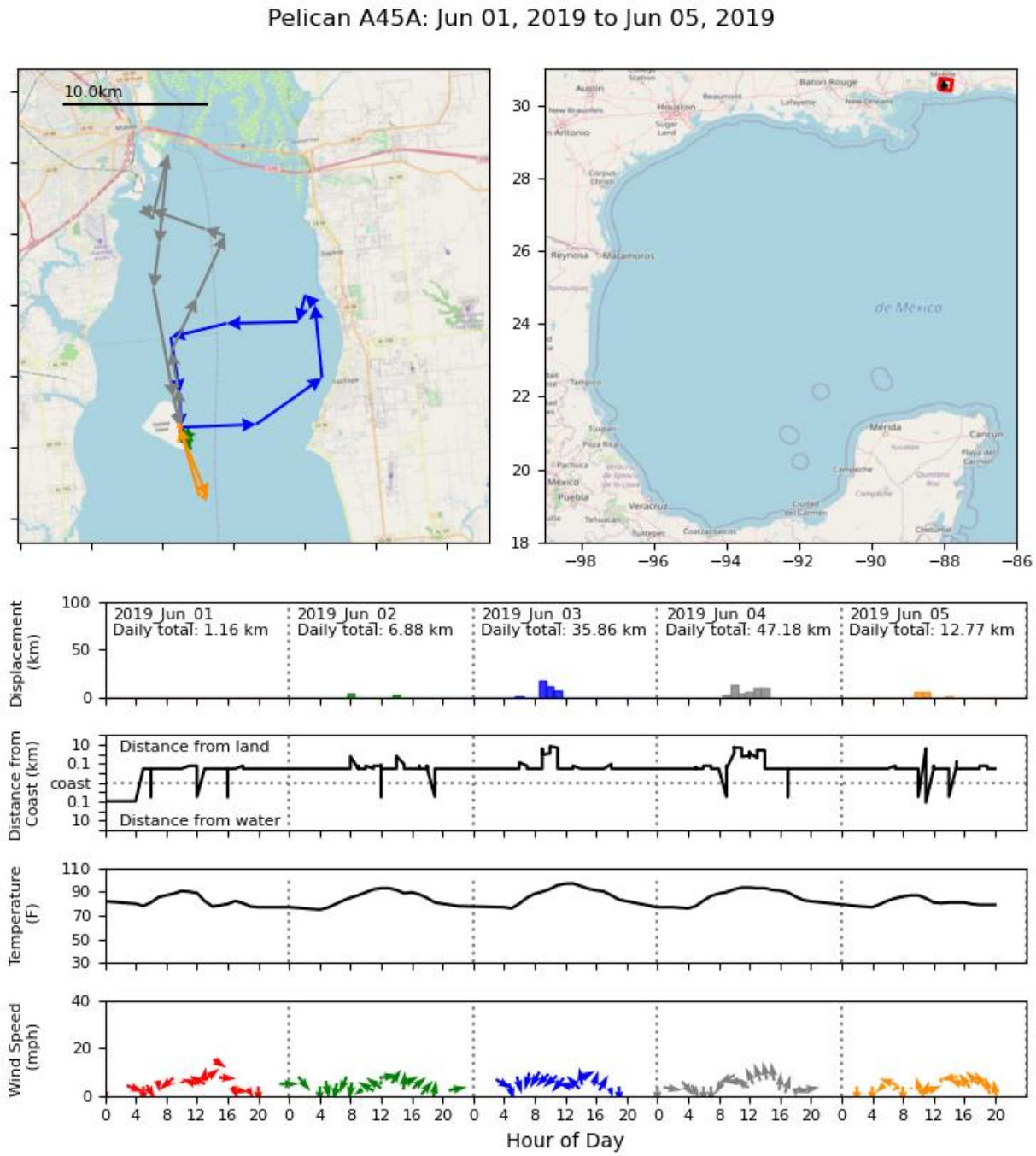

Figure 1019 - Maps and graphs showing movements of A45A between 2019-06-01 and 2019-06-04 inclusive.

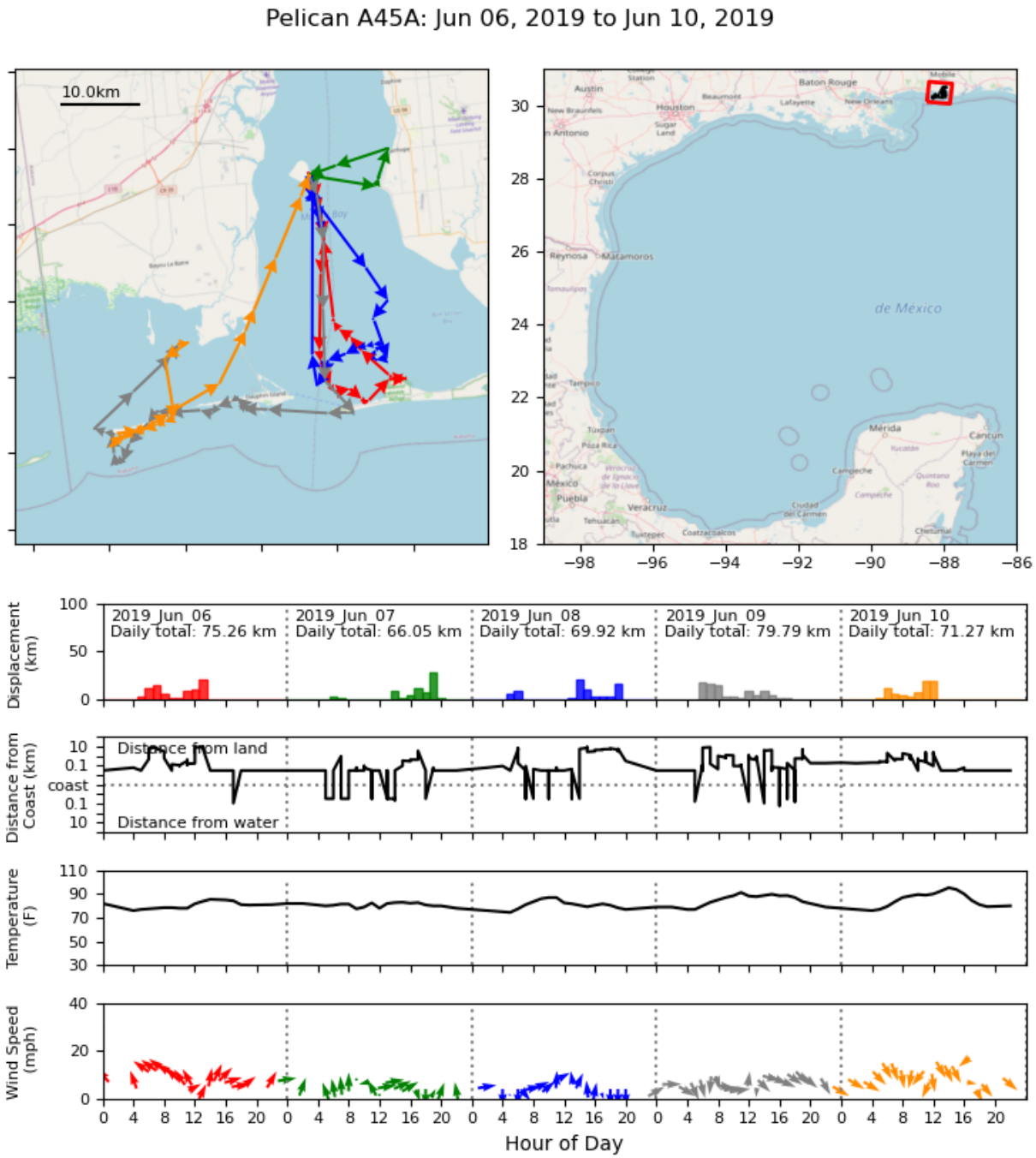

Figure 1020 - Maps and graphs showing movements of A45A between 2019-06-06 and 2019-06-09 inclusive.

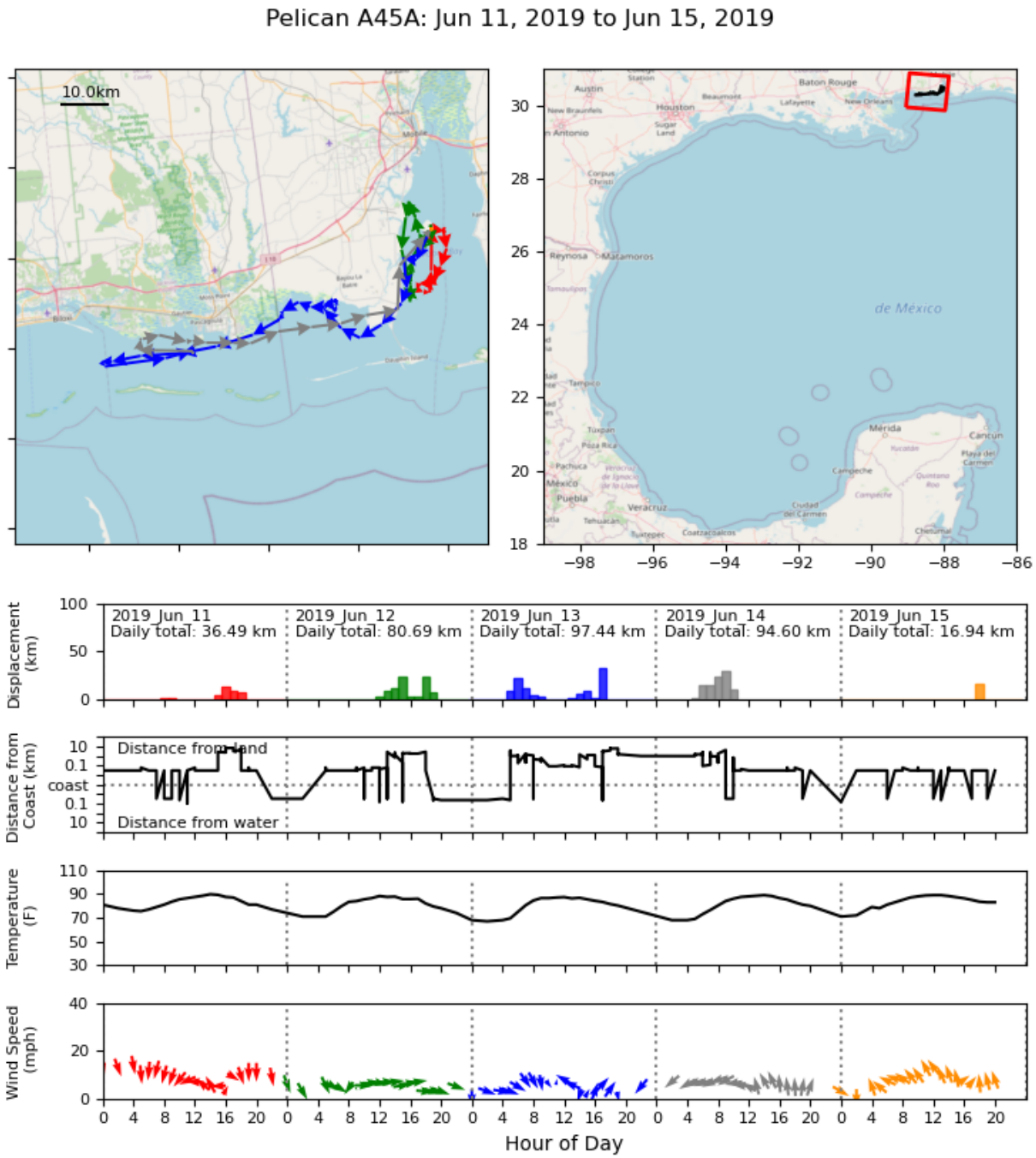

Figure 1021 - Maps and graphs showing movements of A45A between 2019-06-11 and 2019-06-14 inclusive.

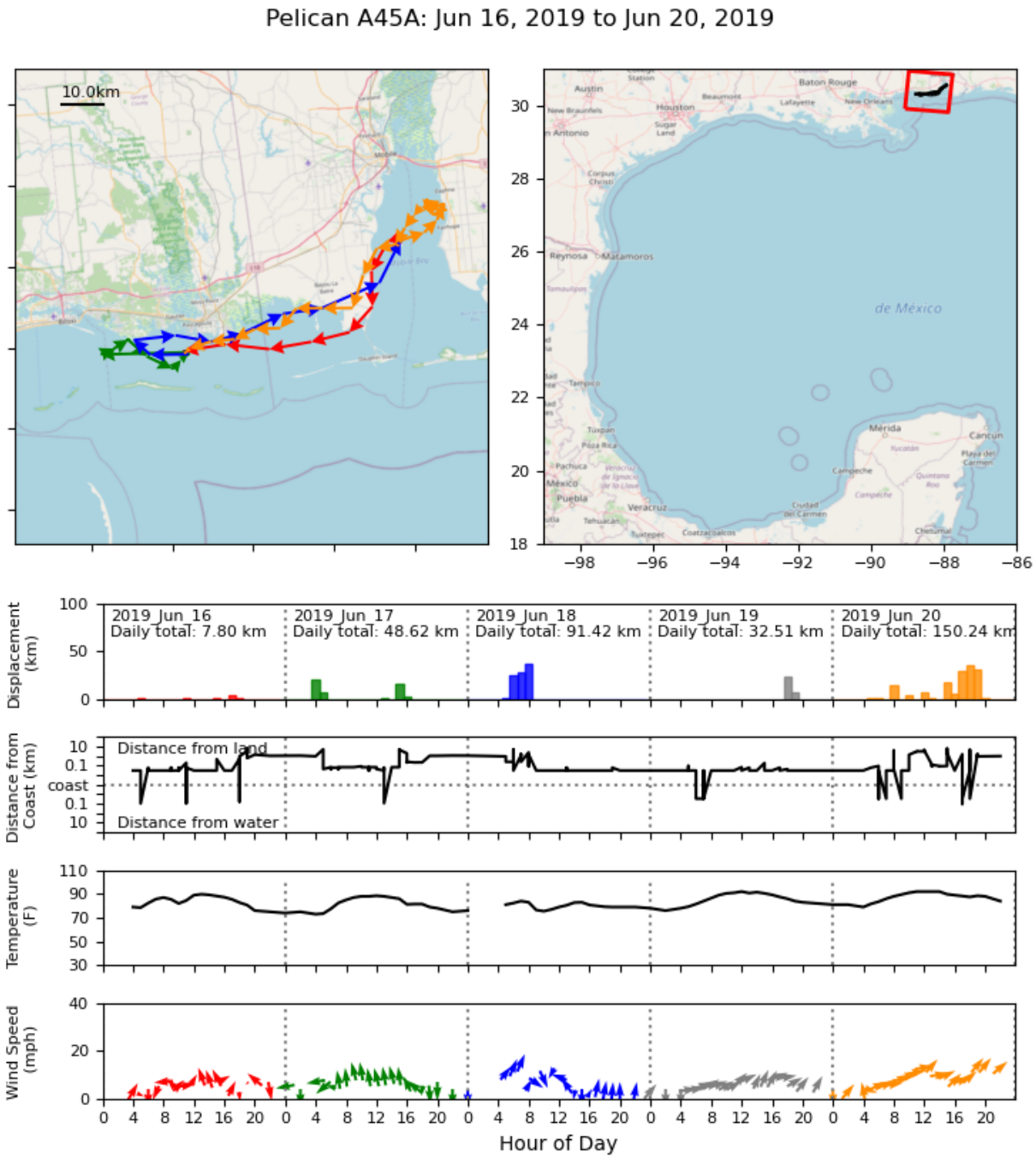

Figure 1022 - Maps and graphs showing movements of A45A between 2019-06-16 and 2019-06-19 inclusive.

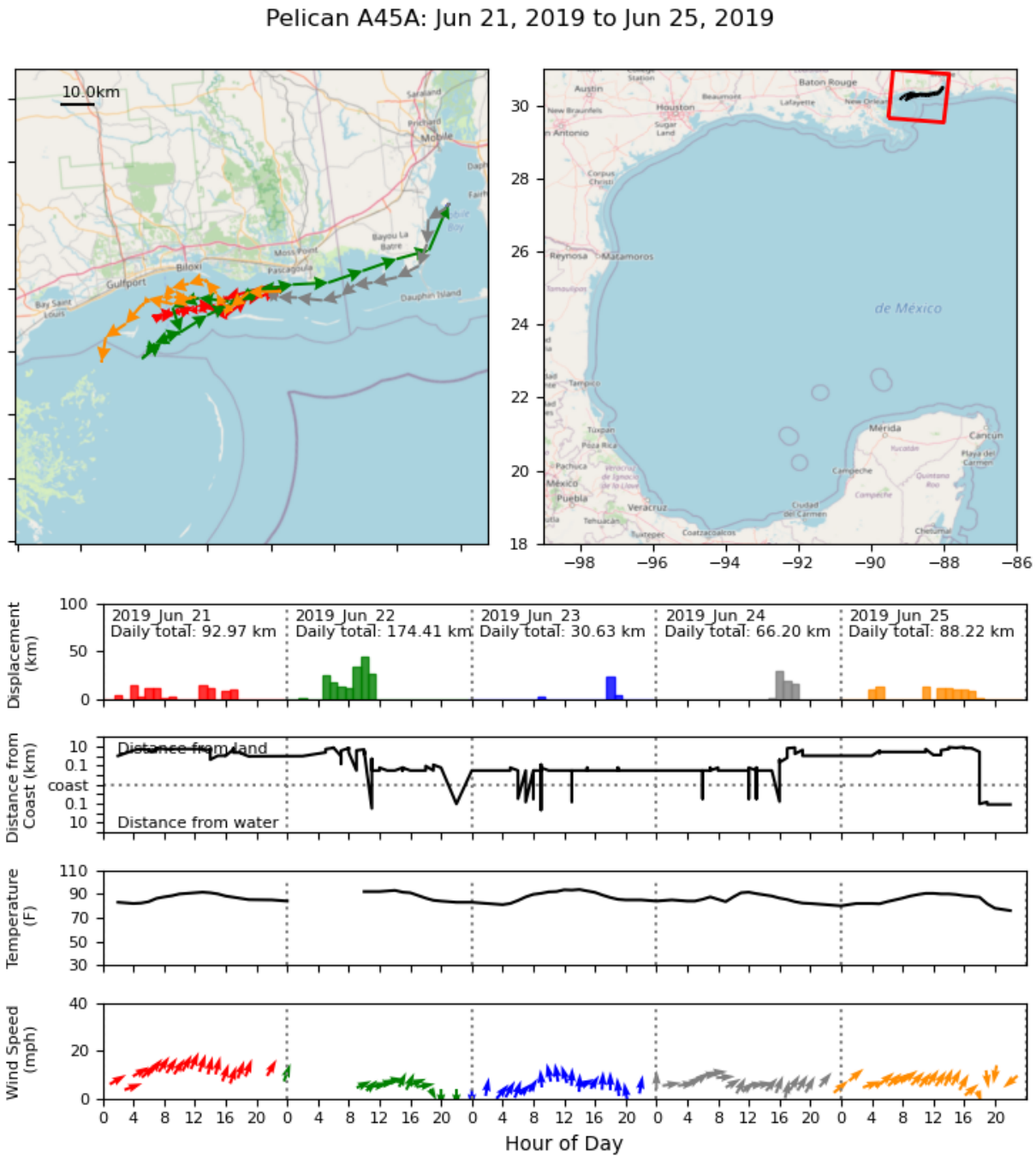

Figure 1023 - Maps and graphs showing movements of A45A between 2019-06-21 and 2019-06-24 inclusive.

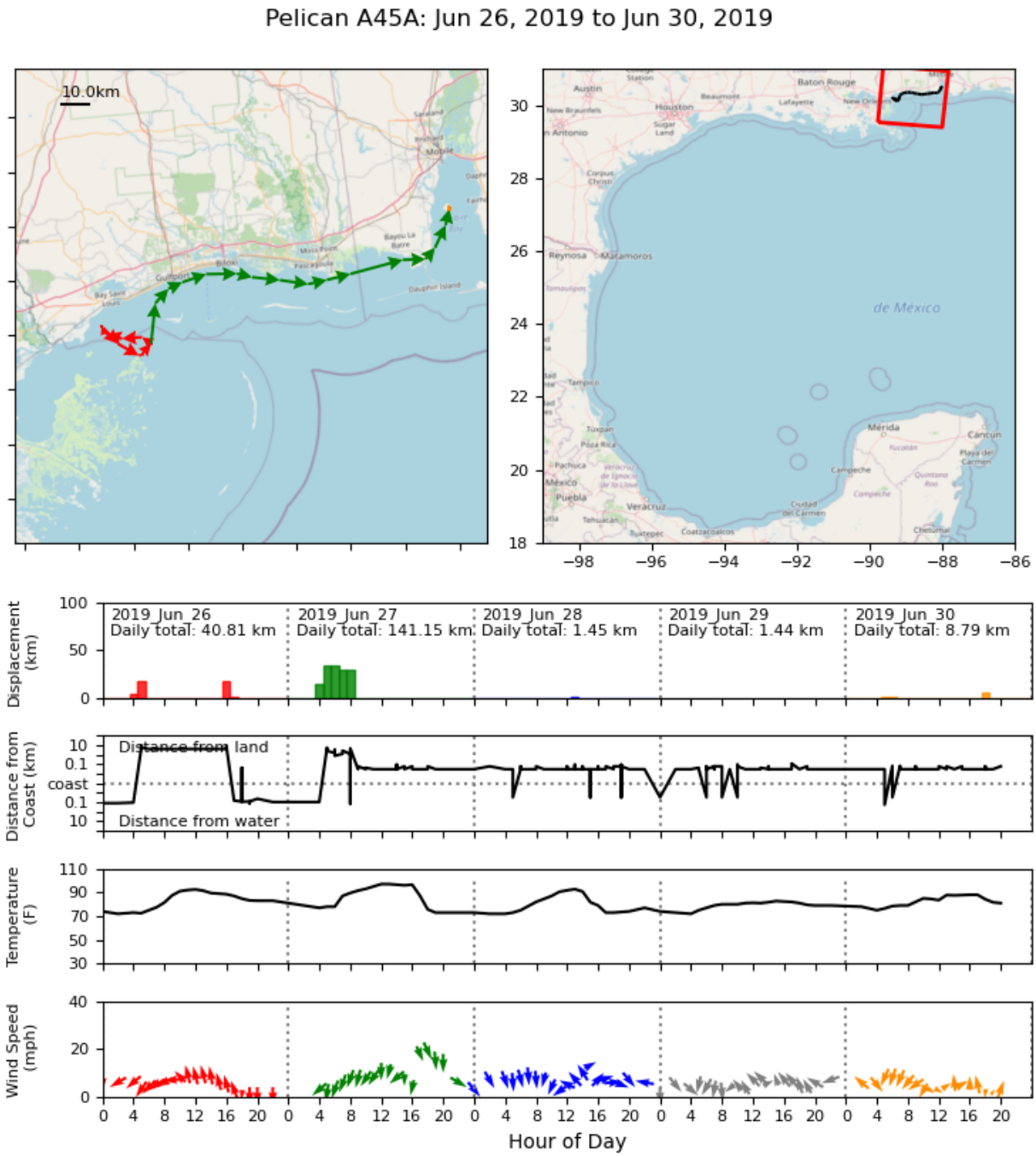

Figure 1024 - Maps and graphs showing movements of A45A between 2019-06-26 and 2019-06-29 inclusive.

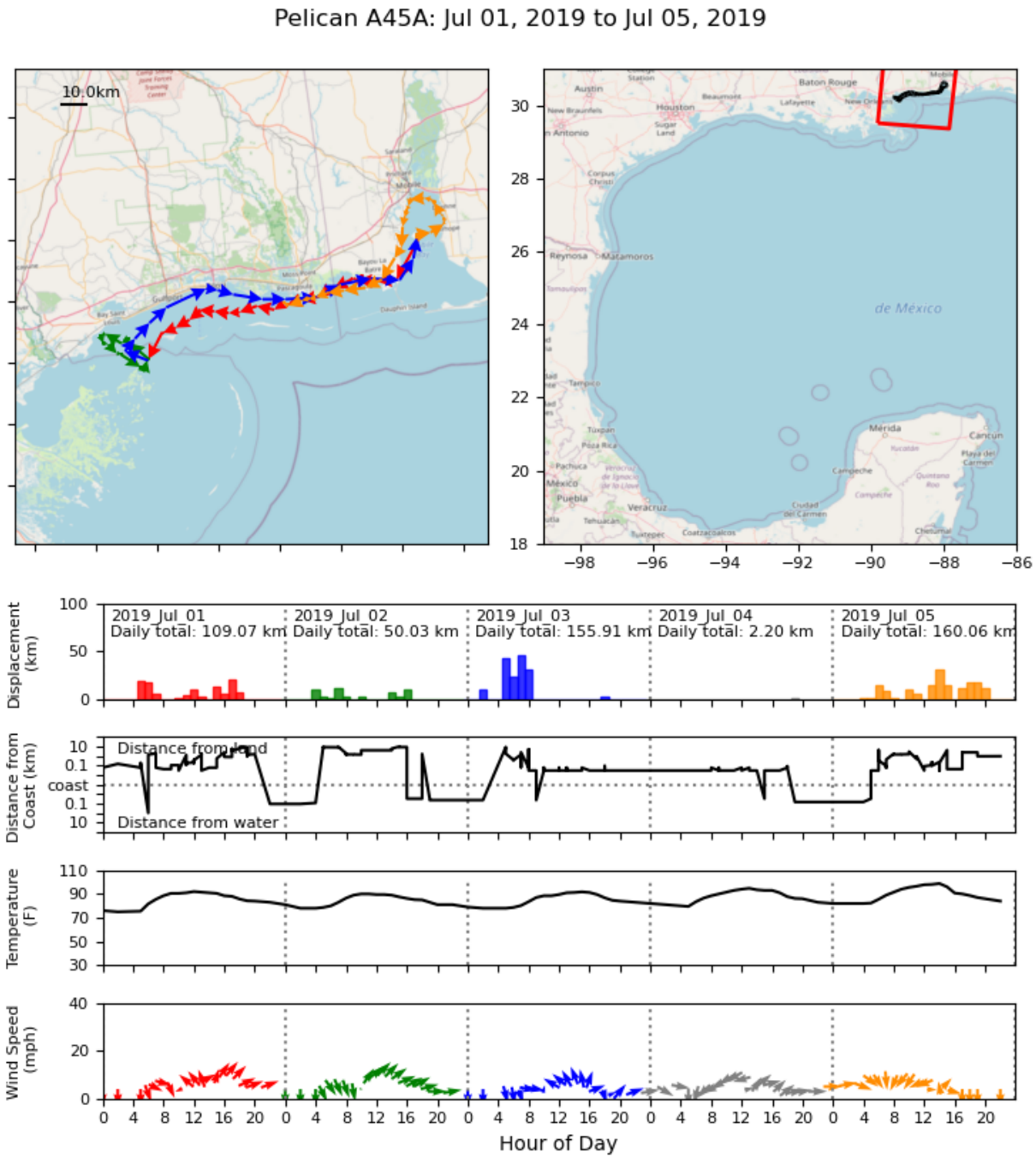

Figure 1025 - Maps and graphs showing movements of A45A between 2019-07-01 and 2019-07-04 inclusive.

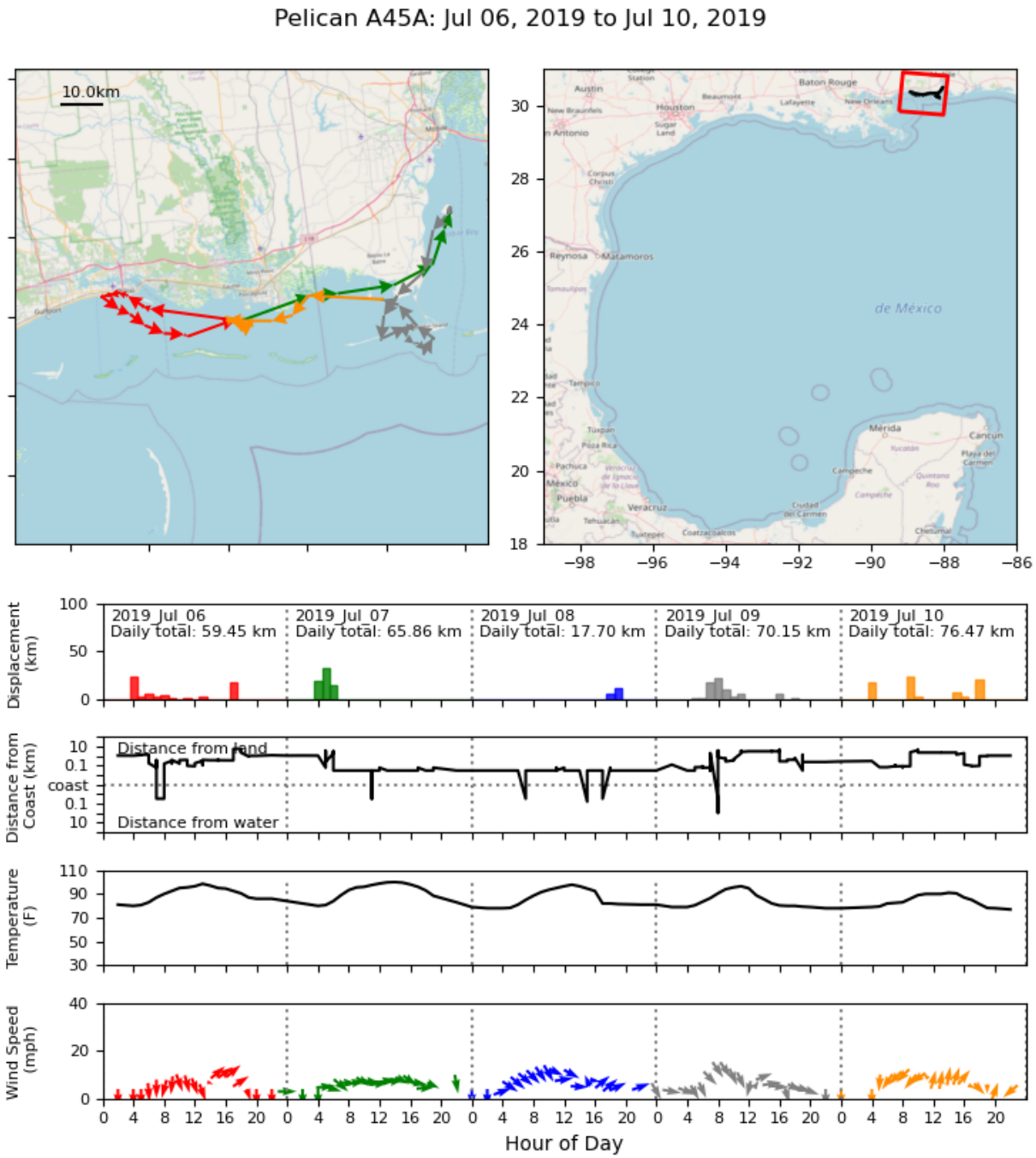

Figure 1026 - Maps and graphs showing movements of A45A between 2019-07-06 and 2019-07-09 inclusive.

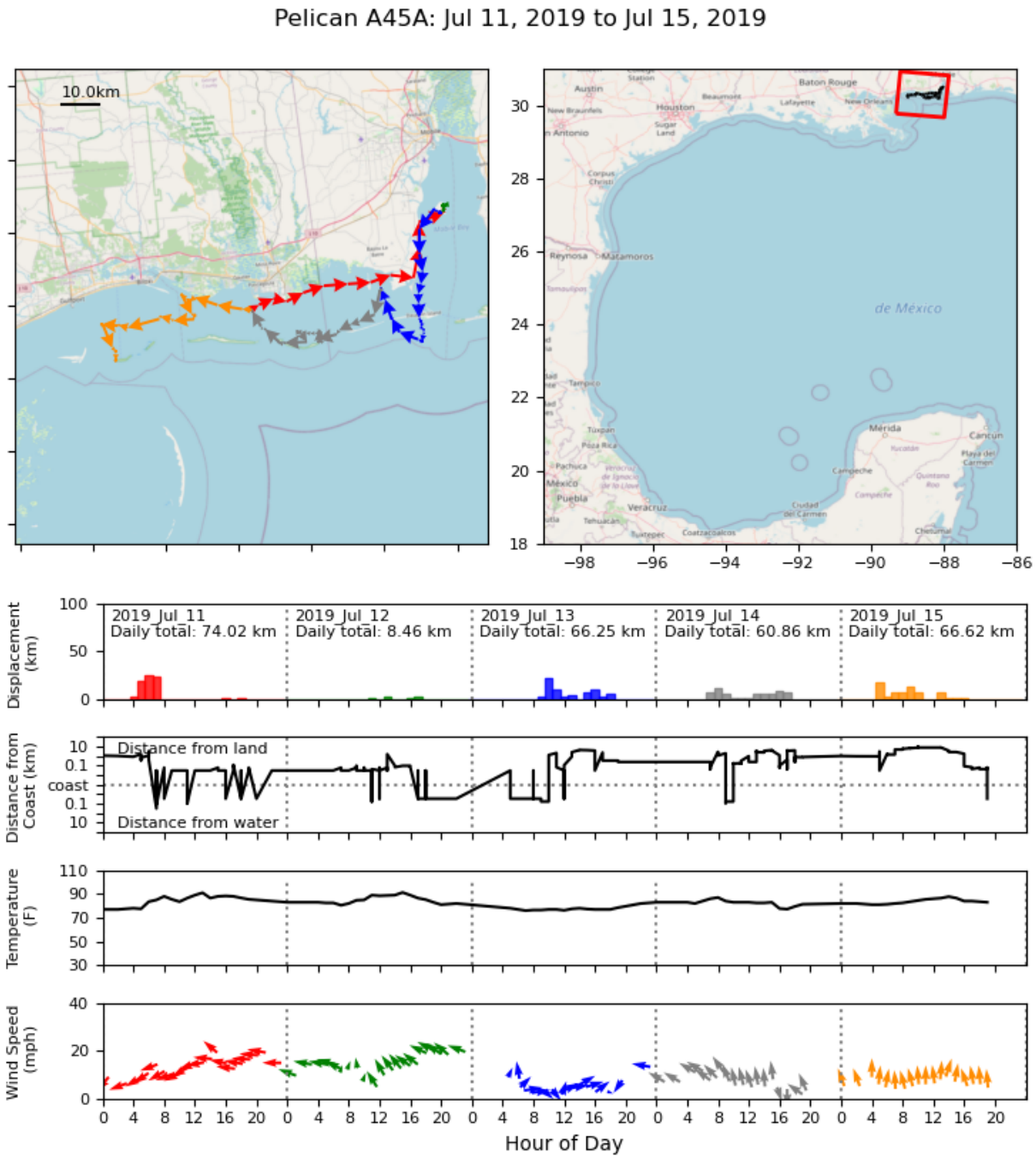

Figure 1027 - Maps and graphs showing movements of A45A between 2019-07-11 and 2019-07-14 inclusive.

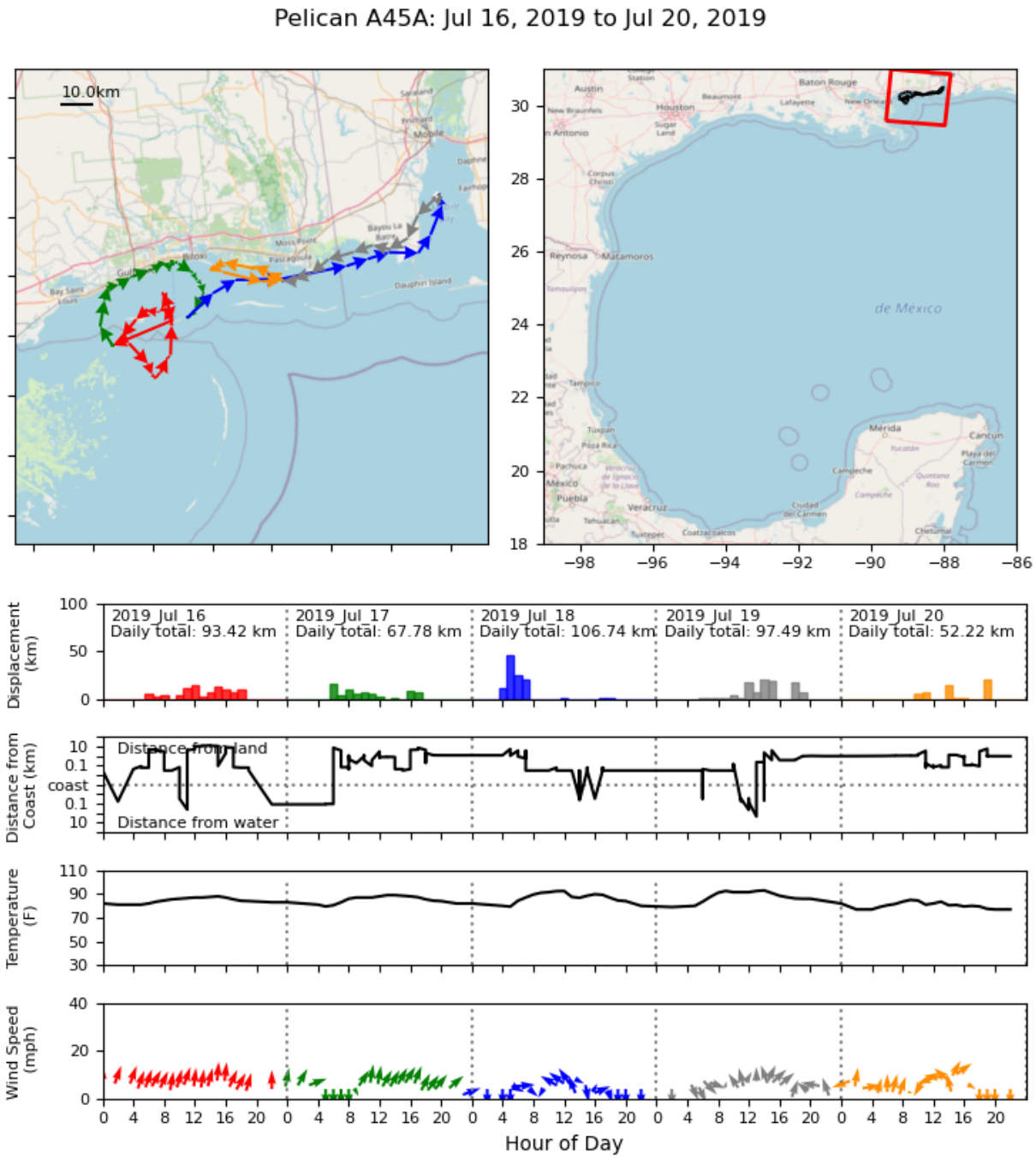

Figure 1028 - Maps and graphs showing movements of A45A between 2019-07-16 and 2019-07-19 inclusive.

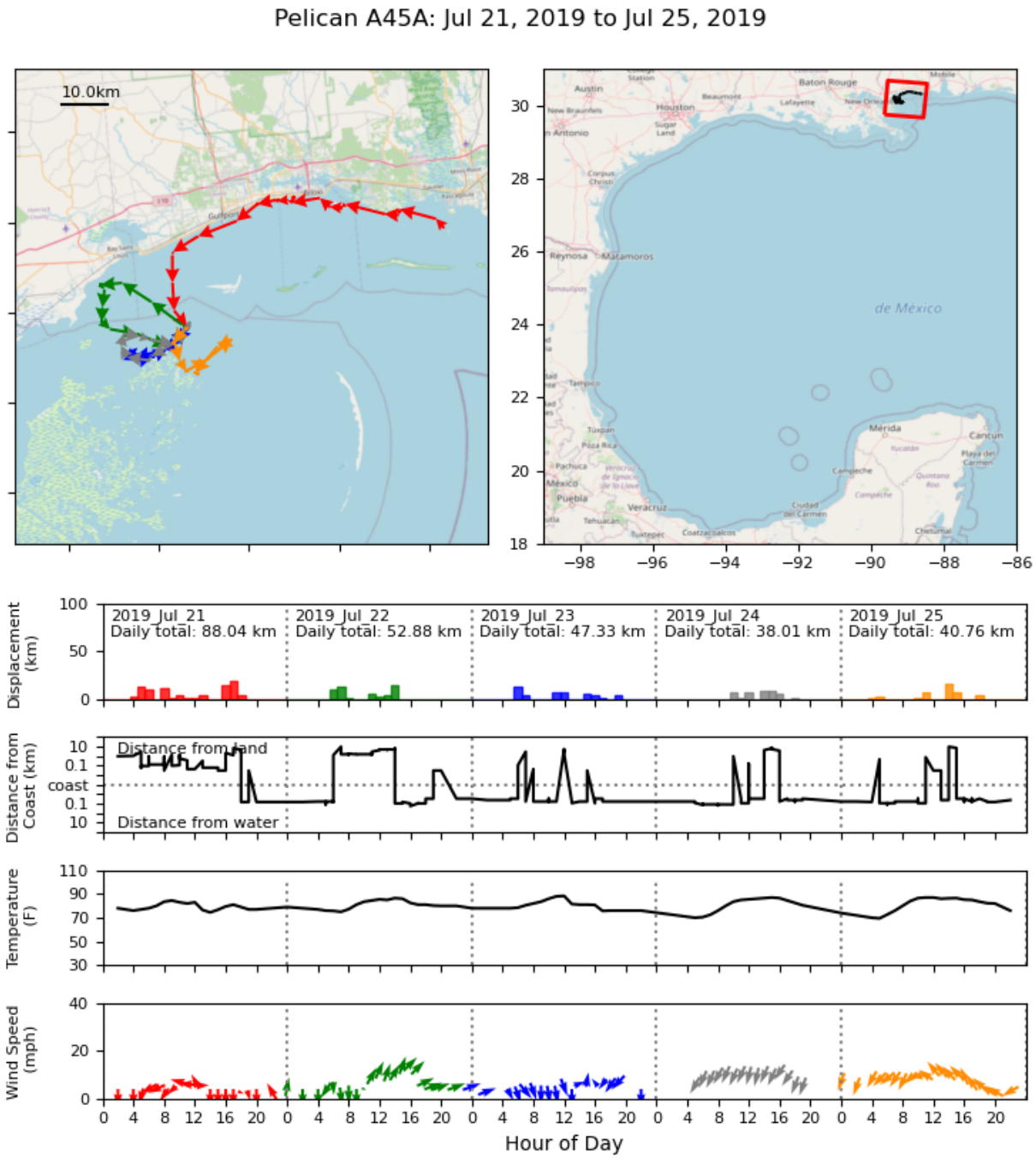

Figure 1029 - Maps and graphs showing movements of A45A between 2019-07-21 and 2019-07-24 inclusive.

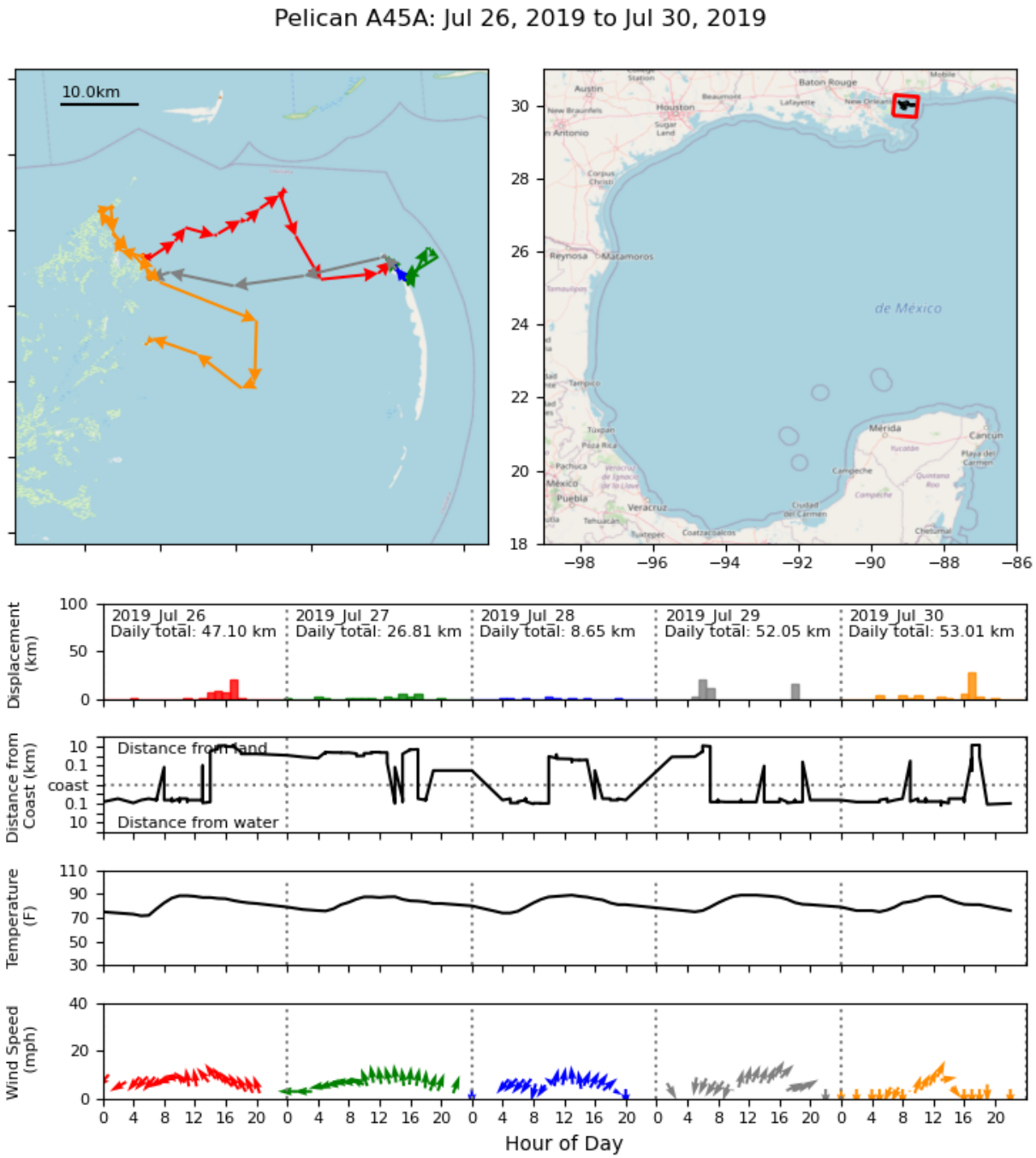

Figure 1030 - Maps and graphs showing movements of A45A between 2019-07-26 and 2019-07-29 inclusive.

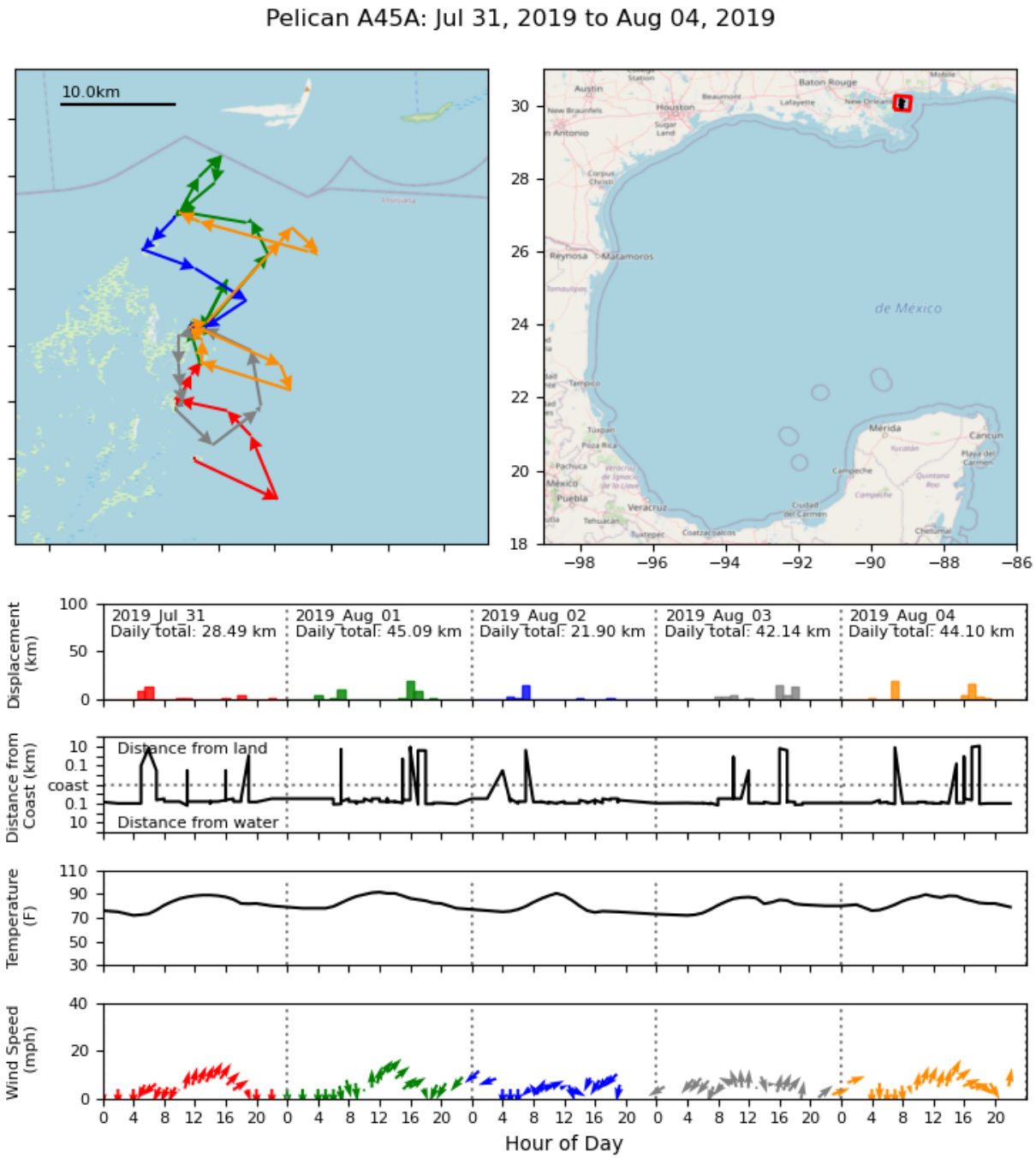

Figure 1031 - Maps and graphs showing movements of A45A between 2019-07-31 and 2019-08-03 inclusive.

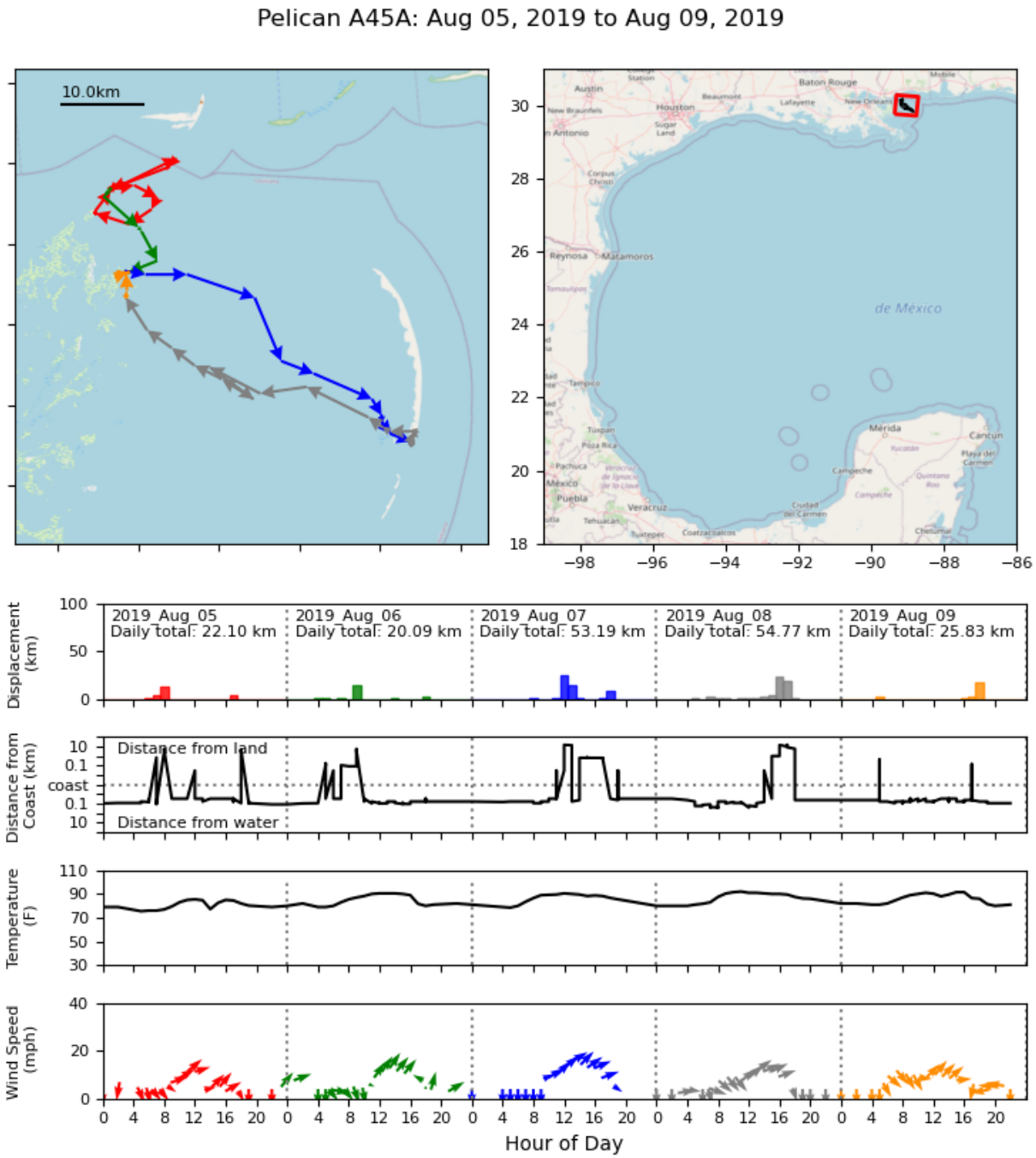

Figure 1032 - Maps and graphs showing movements of A45A between 2019-08-05 and 2019-08-08 inclusive.

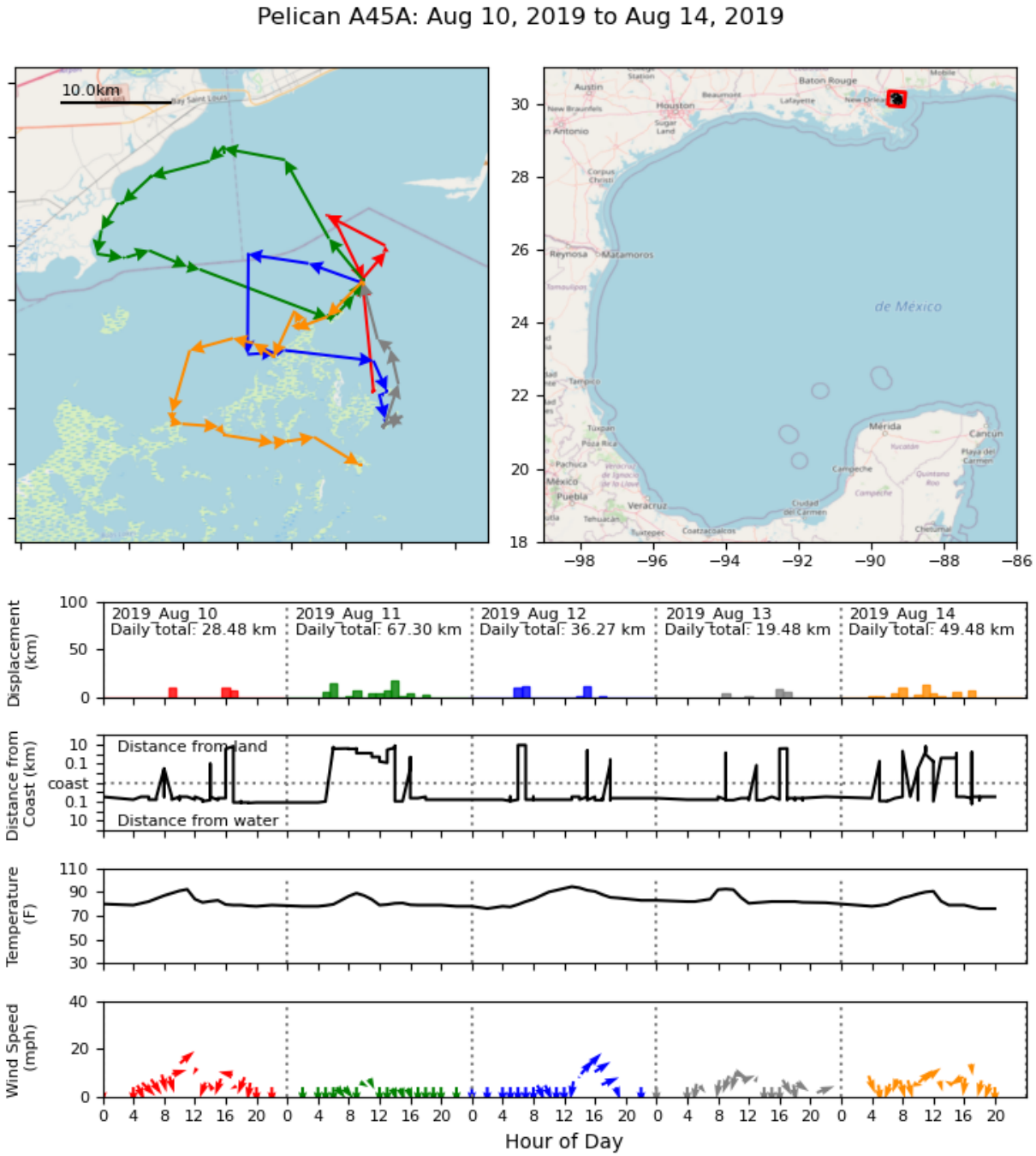

Figure 1033 - Maps and graphs showing movements of A45A between 2019-08-10 and 2019-08-13 inclusive.

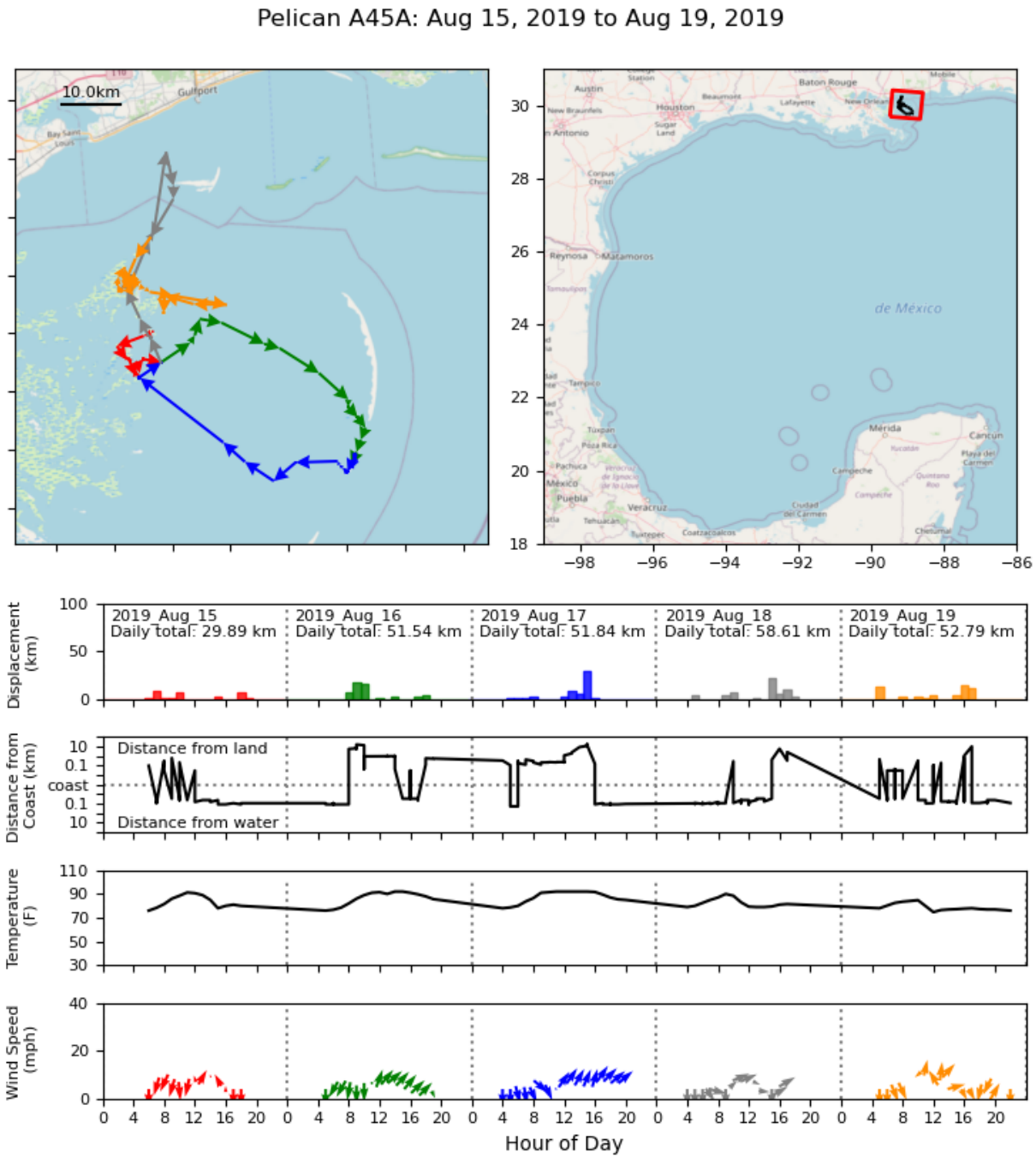

Figure 1034 - Maps and graphs showing movements of A45A between 2019-08-15 and 2019-08-18 inclusive.

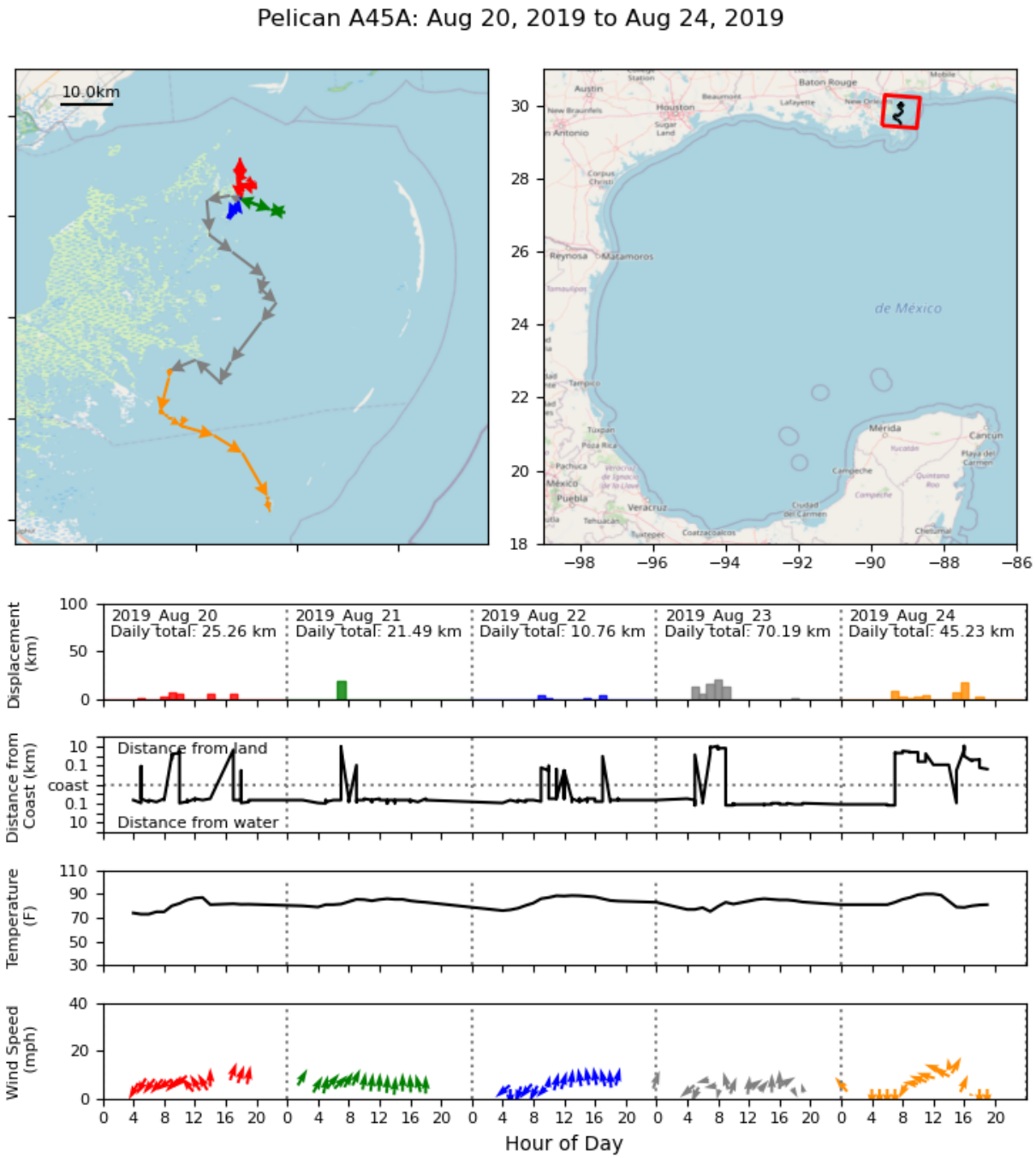

Figure 1035 - Maps and graphs showing movements of A45A between 2019-08-20 and 2019-08-23 inclusive.

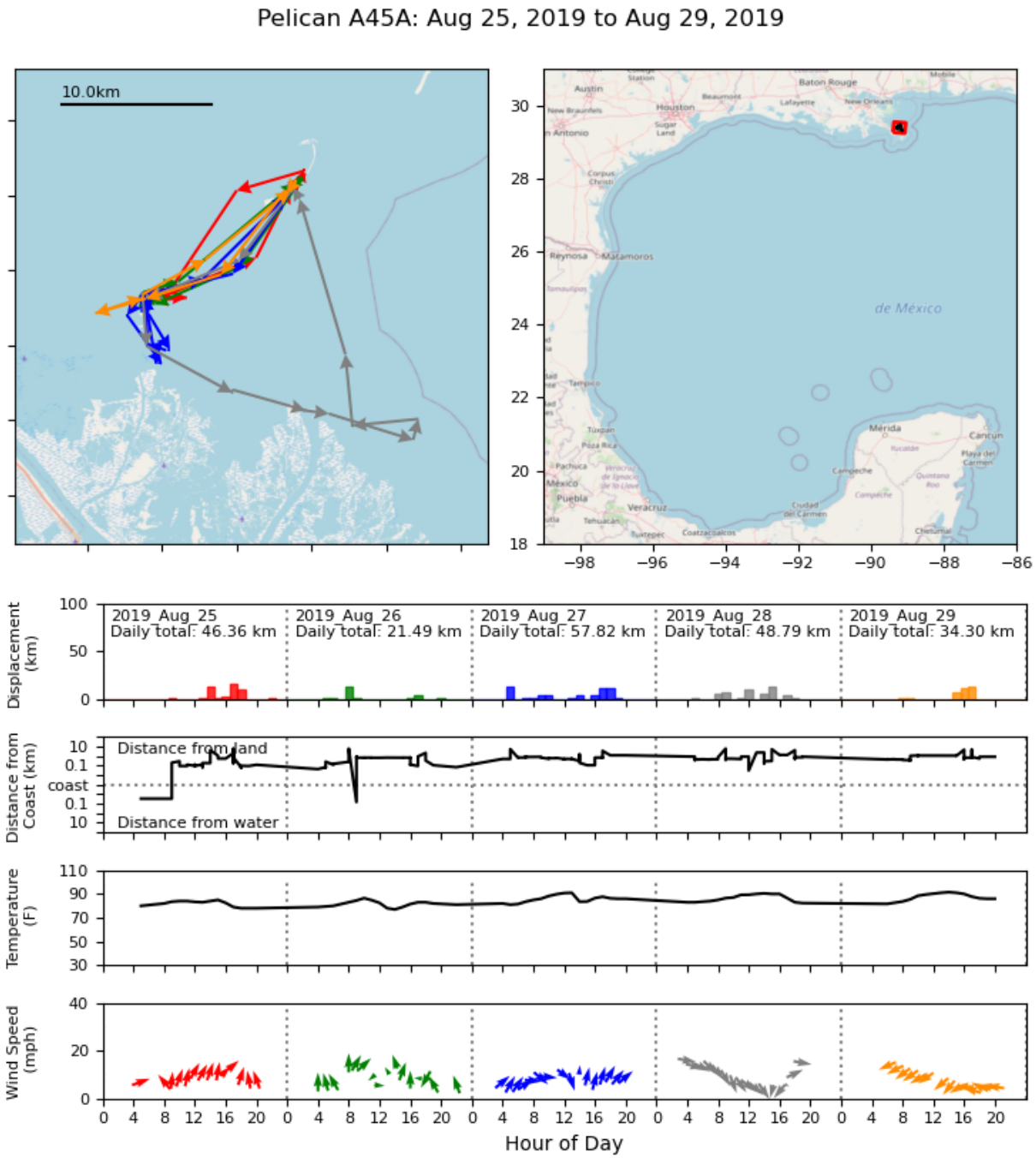

Figure 1036 - Maps and graphs showing movements of A45A between 2019-08-25 and 2019-08-28 inclusive.

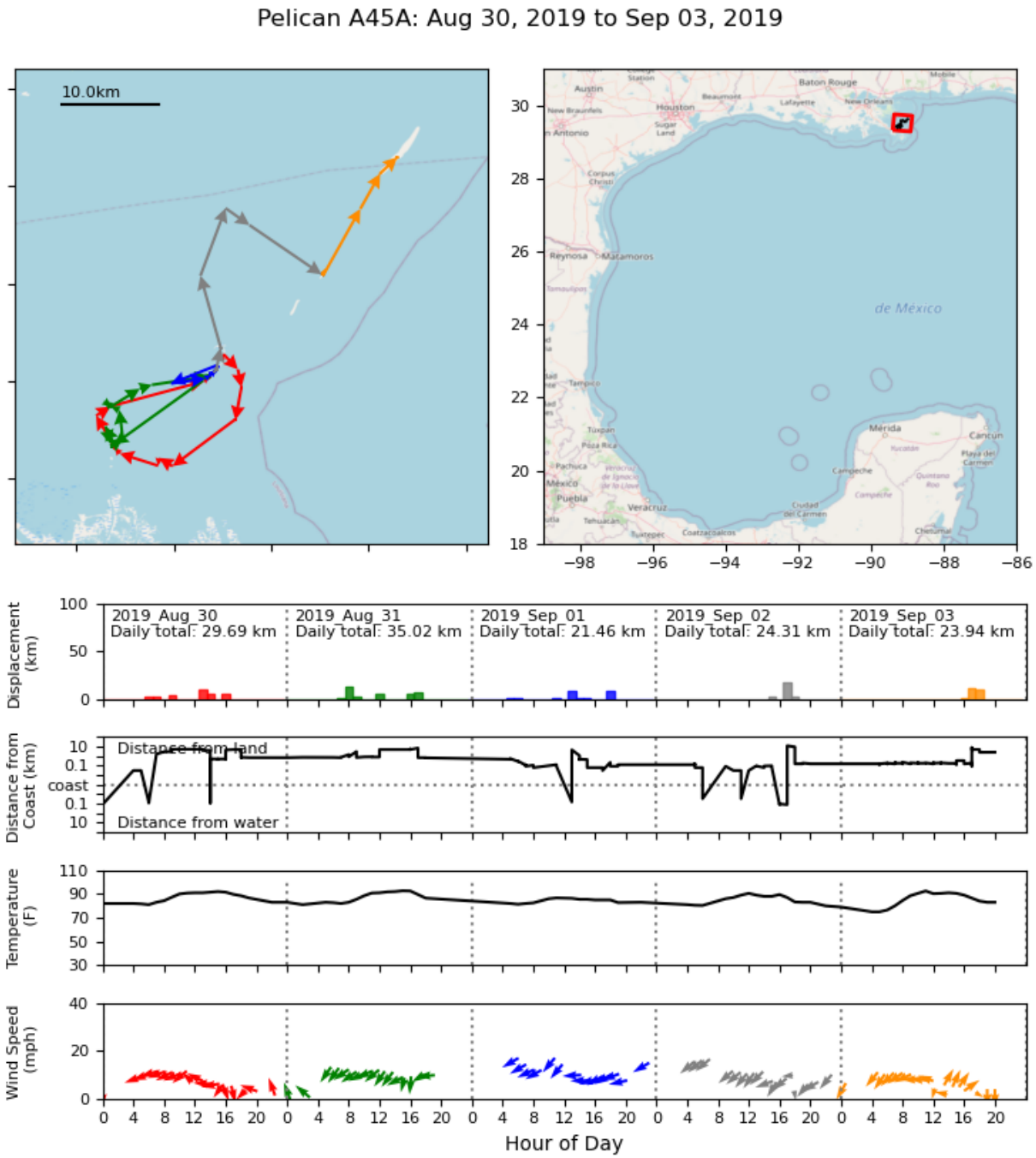

Figure 1037 - Maps and graphs showing movements of A45A between 2019-08-30 and 2019-09-02 inclusive.

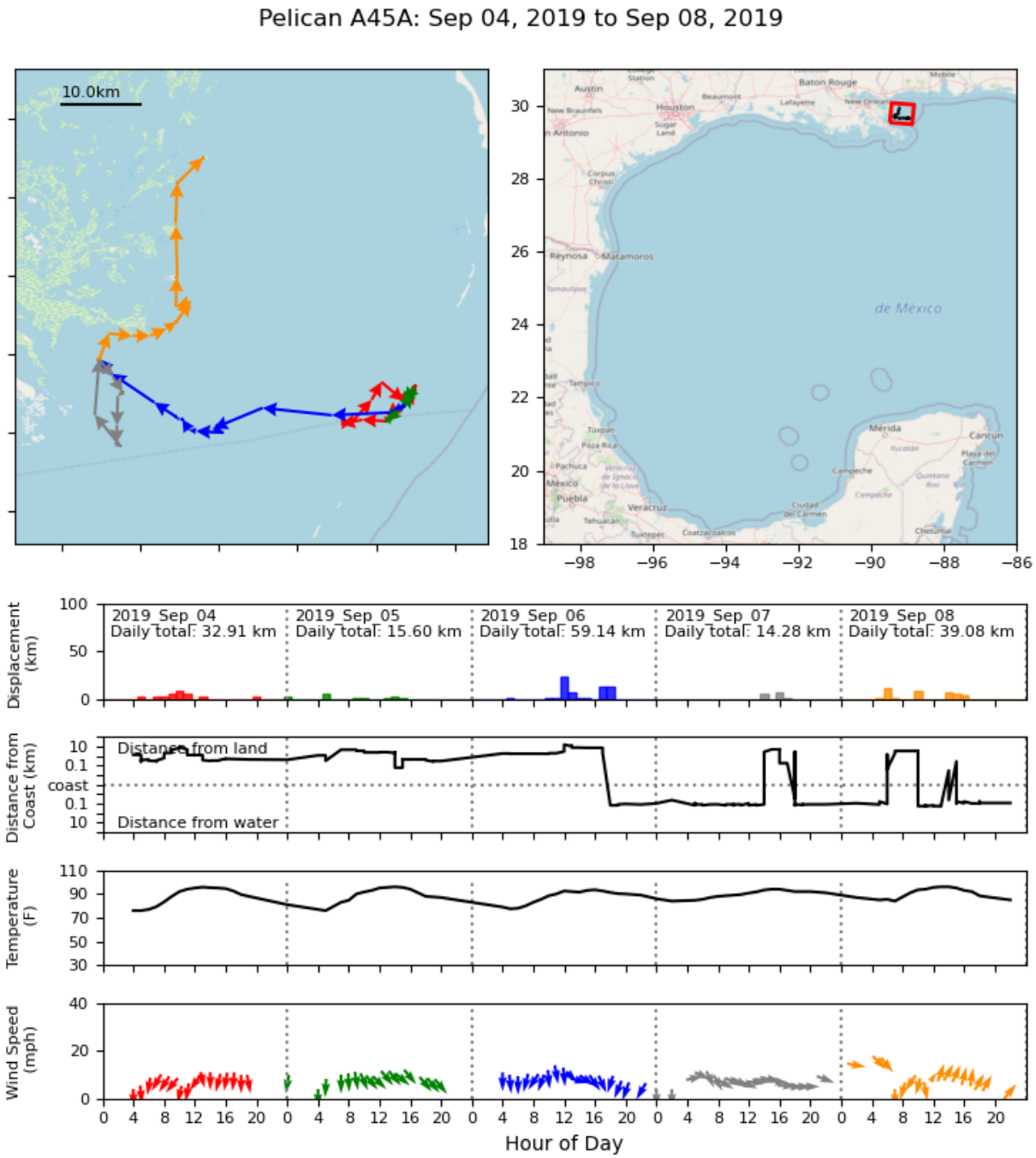

Figure 1038 - Maps and graphs showing movements of A45A between 2019-09-04 and 2019-09-07 inclusive.

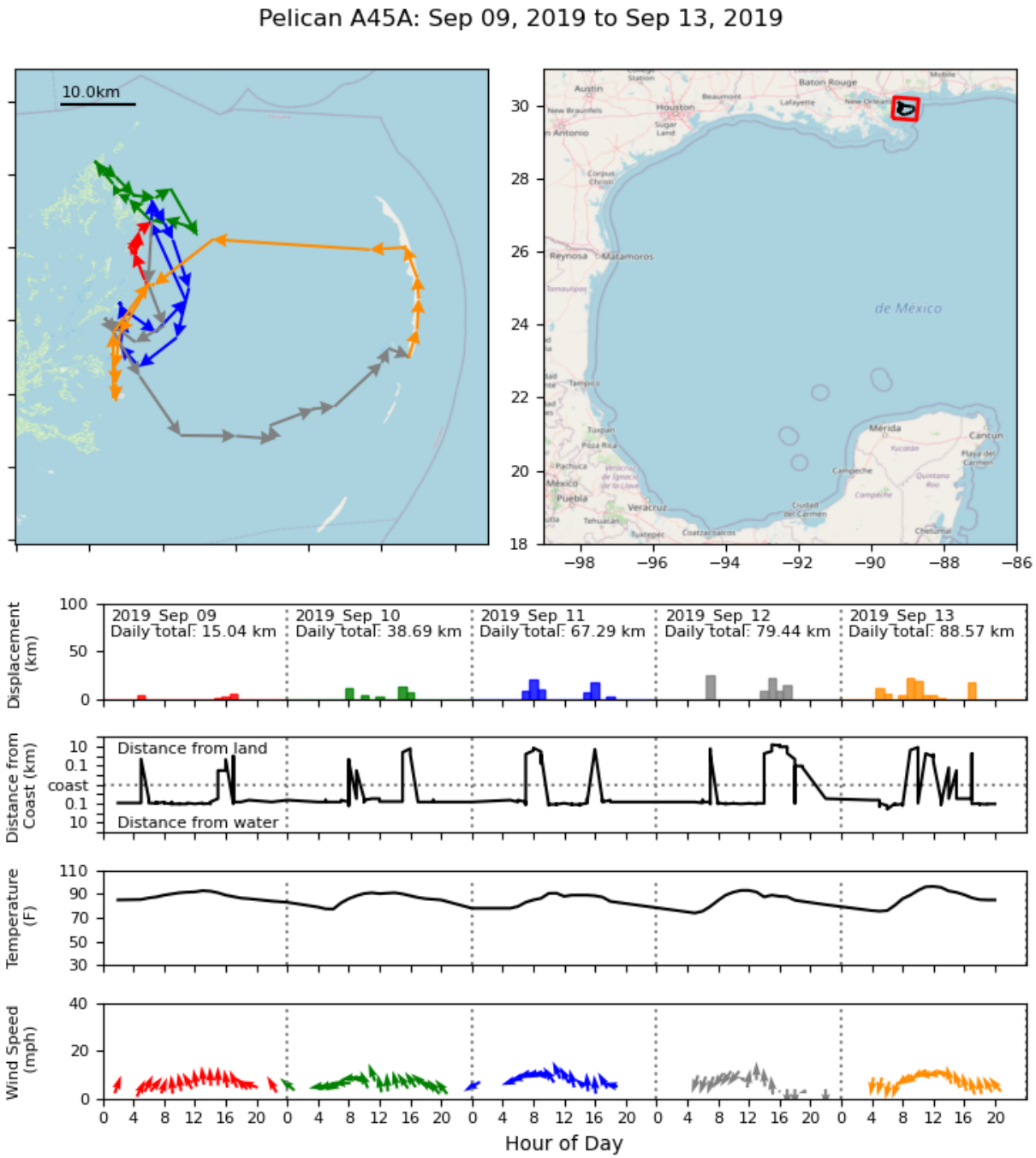

Figure 1039 - Maps and graphs showing movements of A45A between 2019-09-09 and 2019-09-12 inclusive.

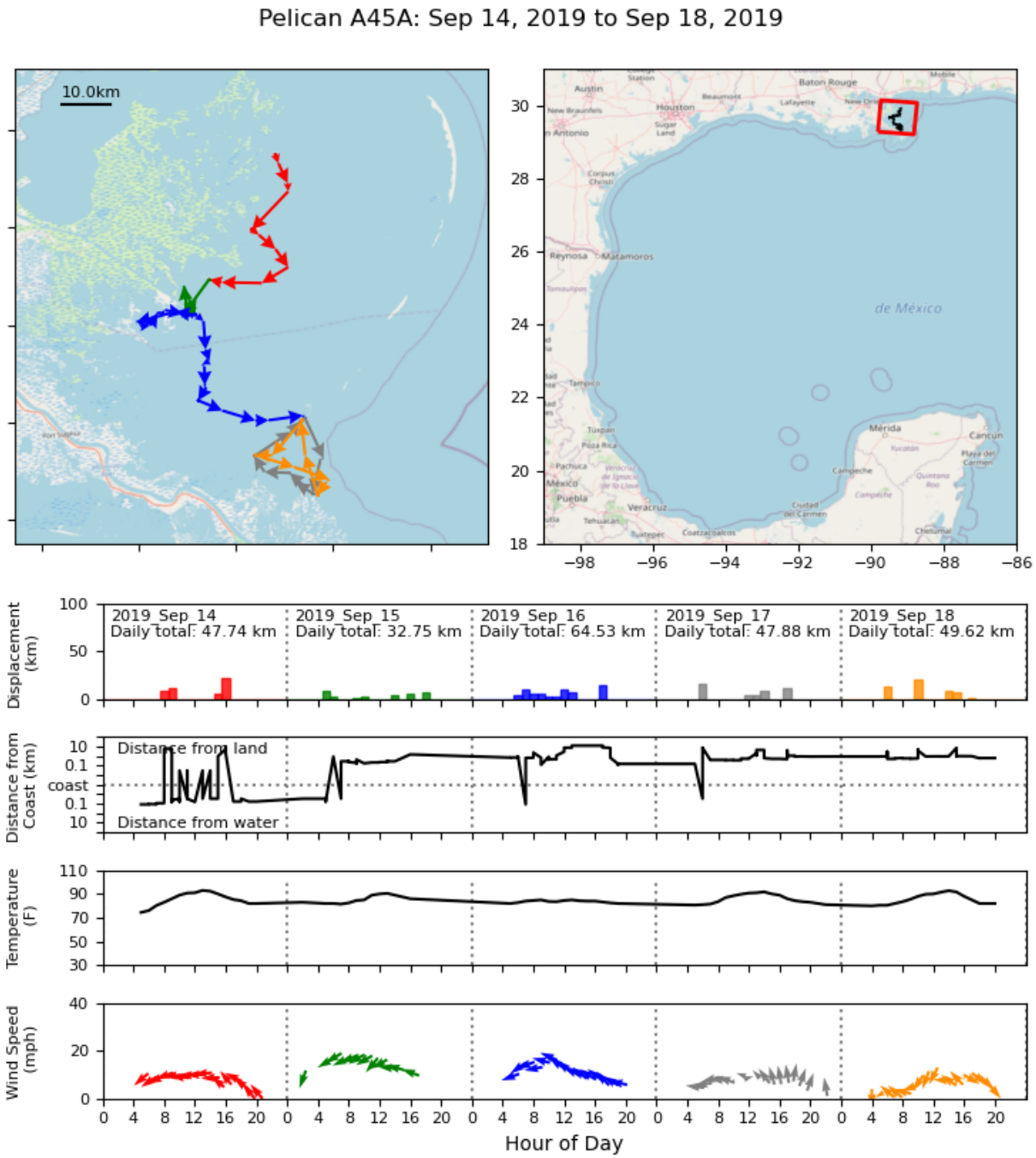

Figure 1040 - Maps and graphs showing movements of A45A between 2019-09-14 and 2019-09-17 inclusive.

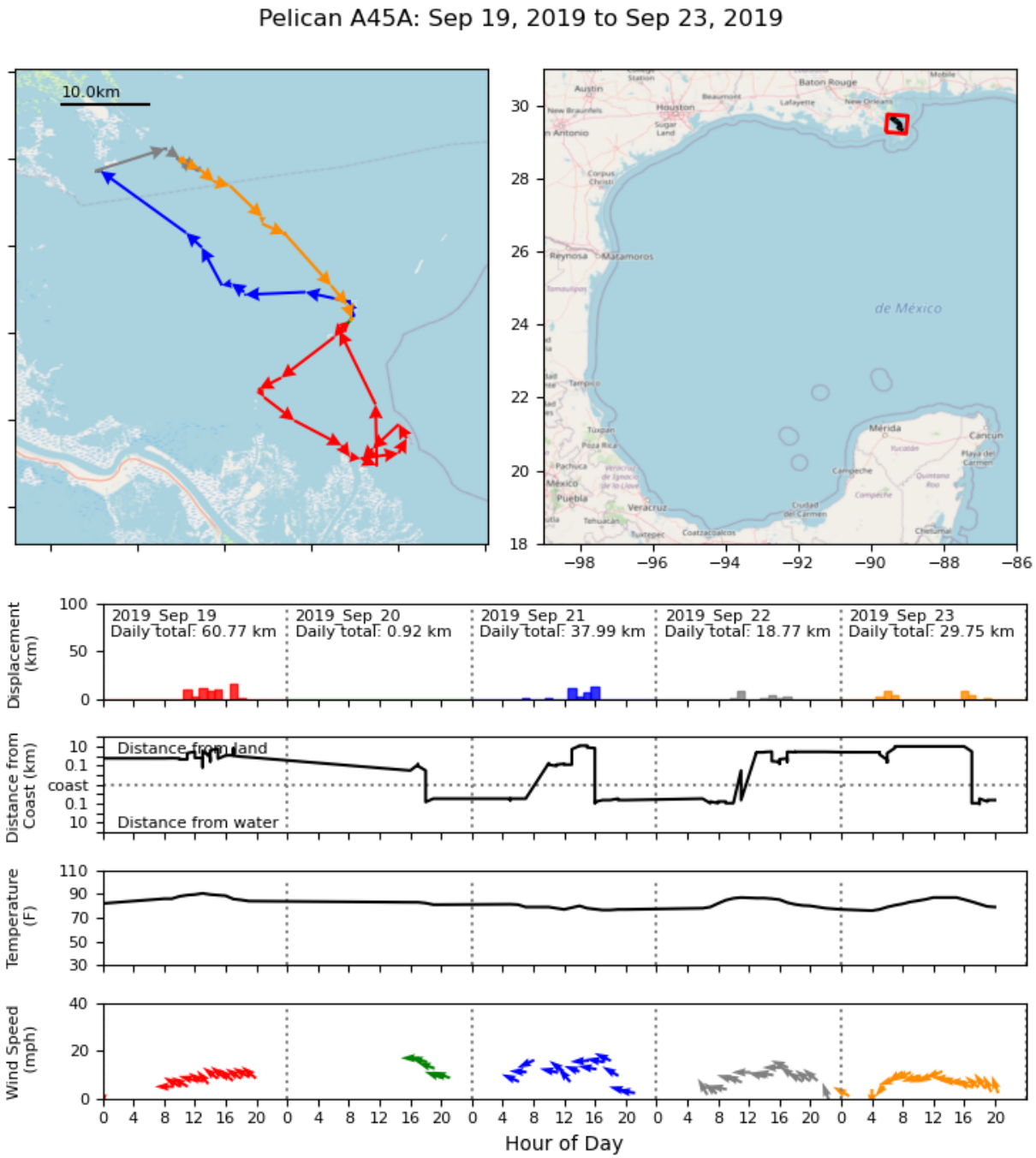

Figure 1041 - Maps and graphs showing movements of A45A between 2019-09-19 and 2019-09-22 inclusive.

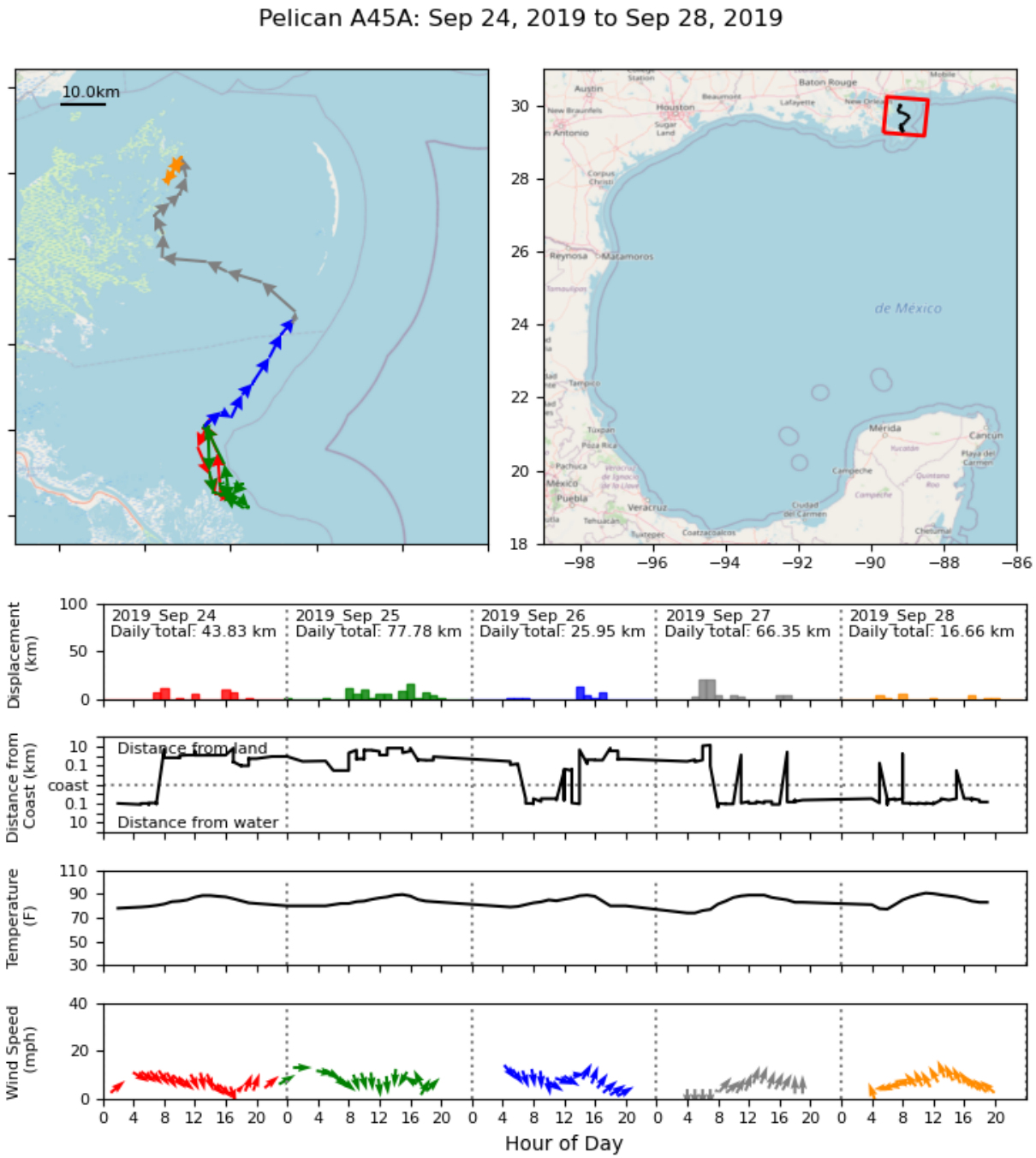

Figure 1042 - Maps and graphs showing movements of A45A between 2019-09-24 and 2019-09-27 inclusive.

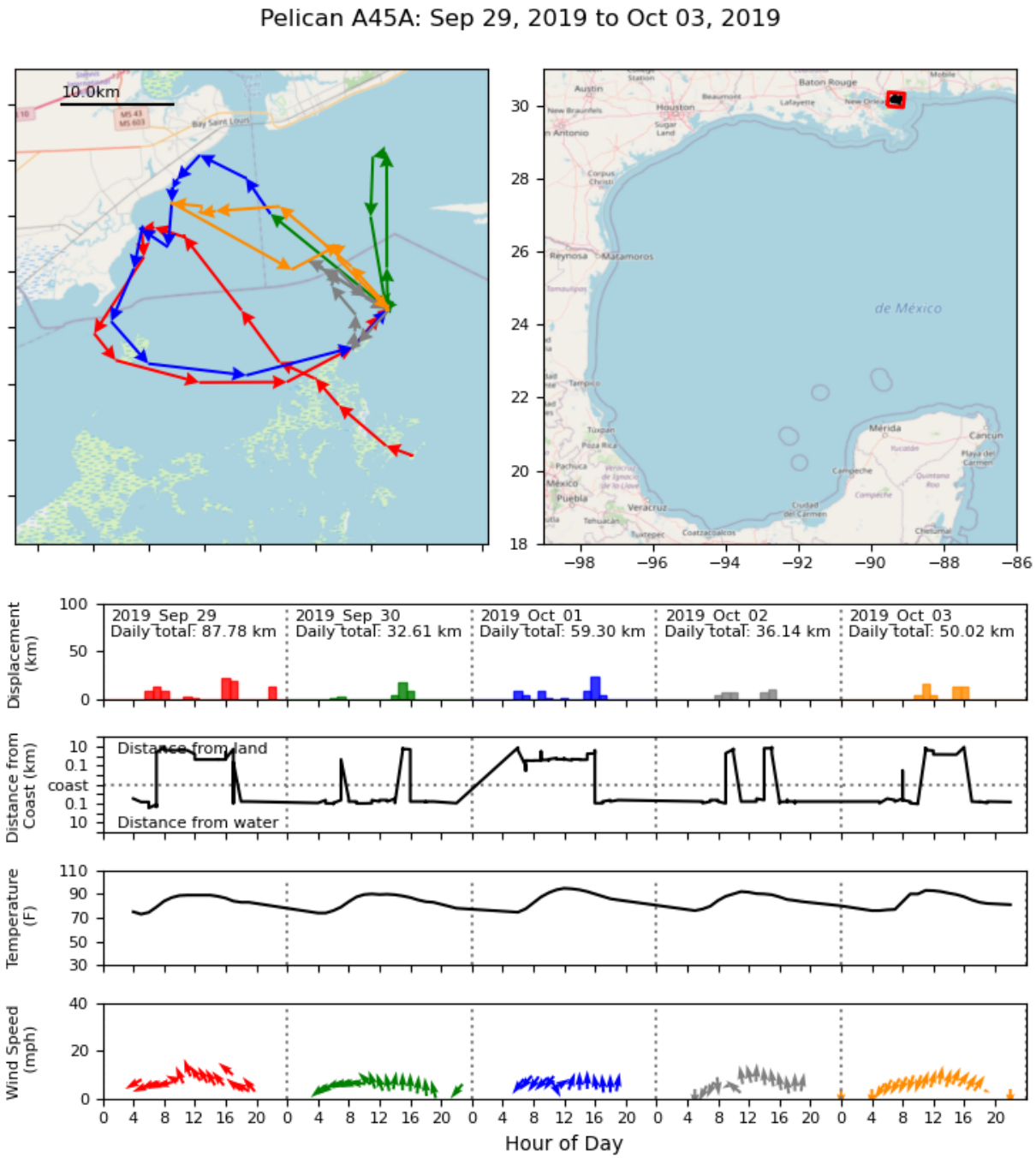

Figure 1043 - Maps and graphs showing movements of A45A between 2019-09-29 and 2019-10-02 inclusive.

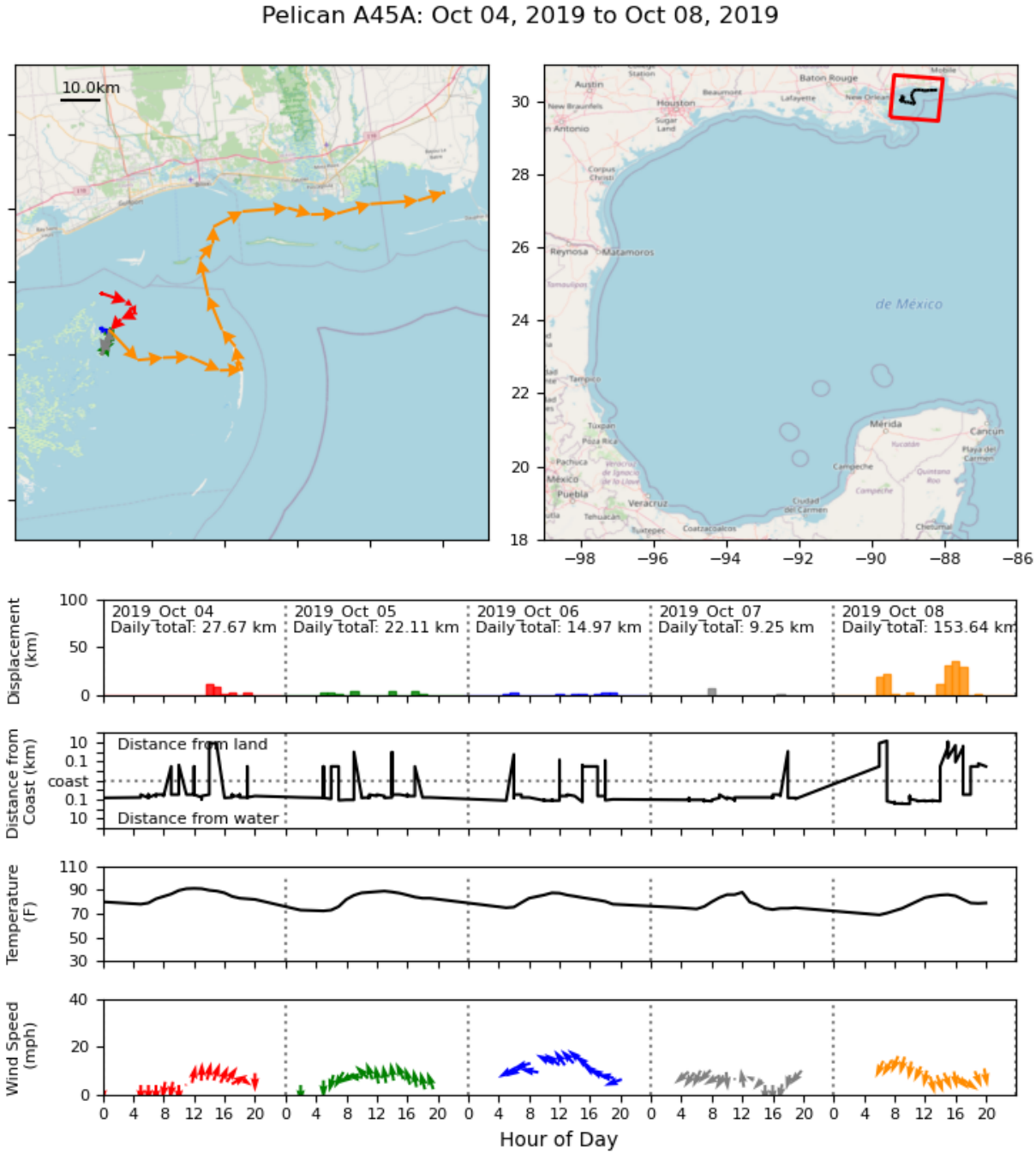

Figure 1044 - Maps and graphs showing movements of A45A between 2019-10-04 and 2019-10-07 inclusive.

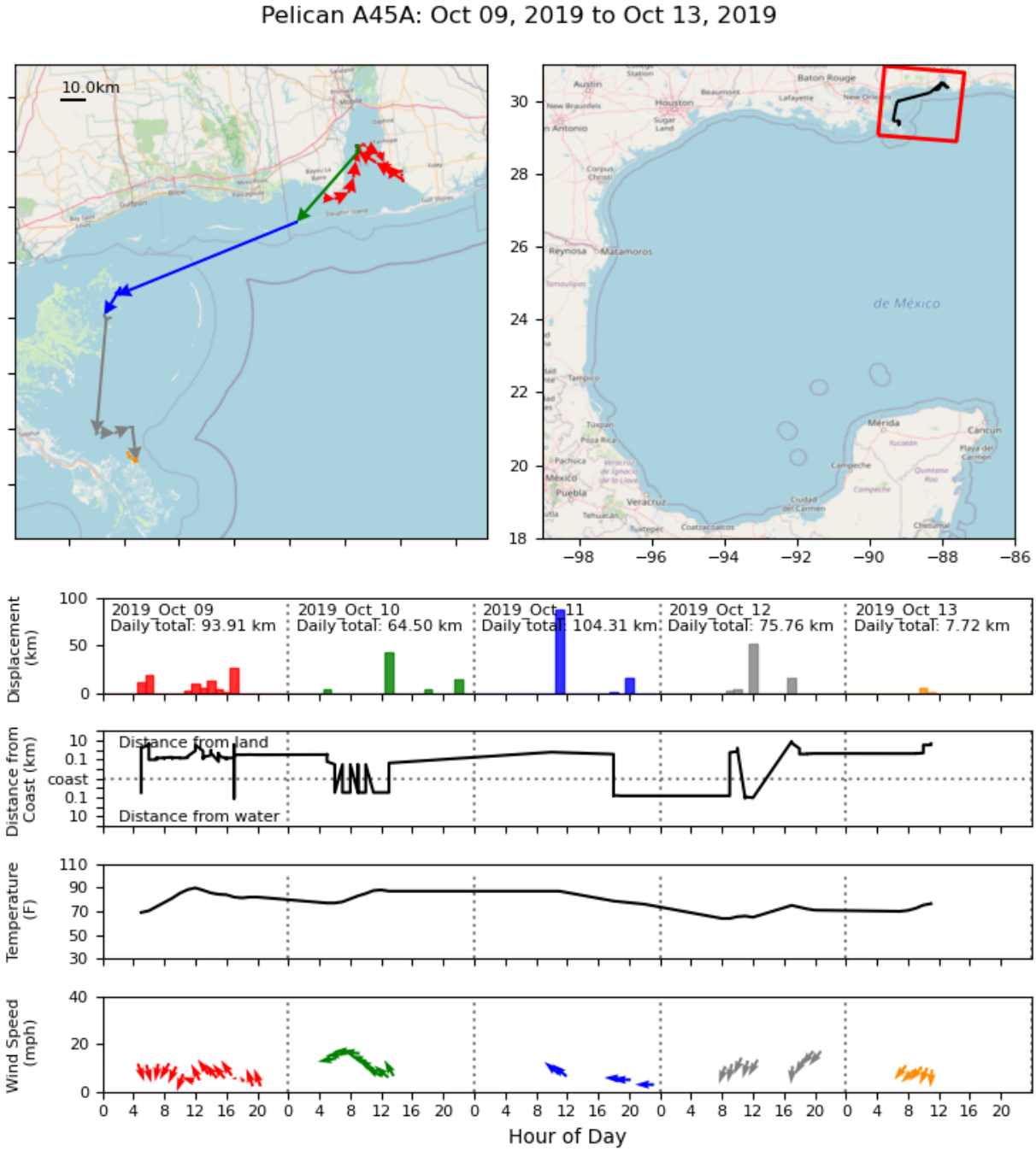

Figure 1045 - Maps and graphs showing movements of A45A between 2019-10-09 and 2019-10-12 inclusive.

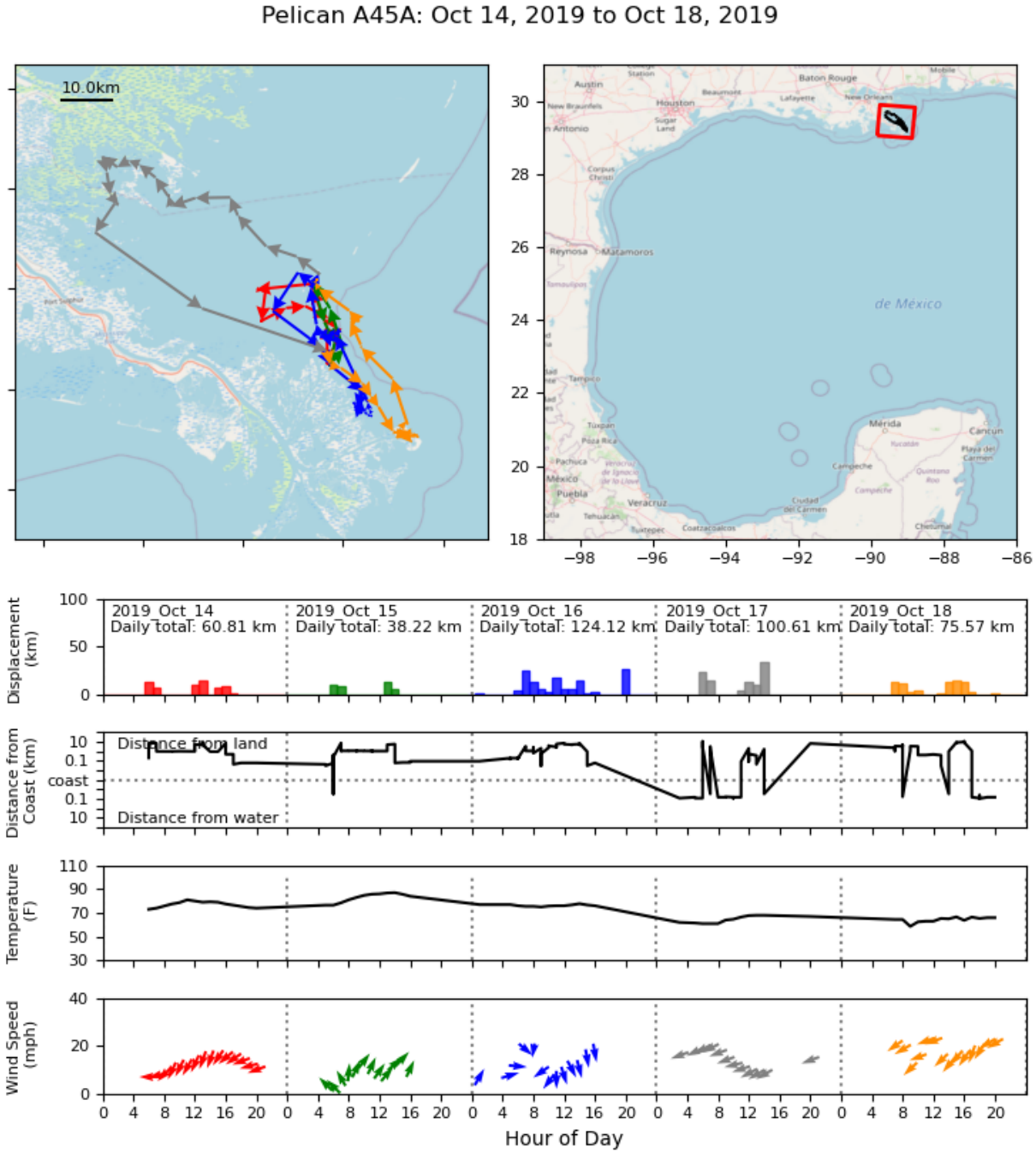

Figure 1046 - Maps and graphs showing movements of A45A between 2019-10-14 and 2019-10-17 inclusive.

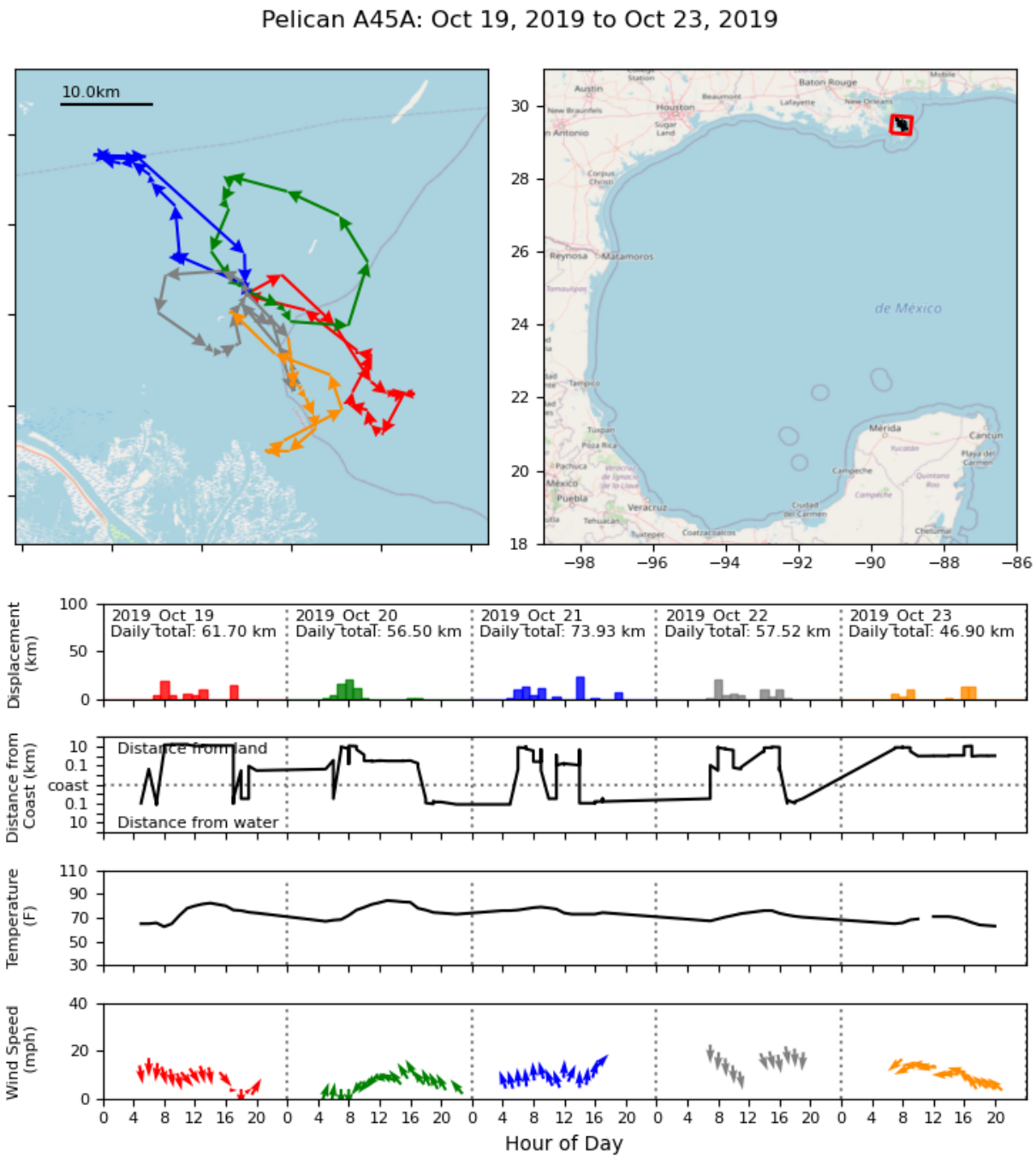

Figure 1047 - Maps and graphs showing movements of A45A between 2019-10-19 and 2019-10-22 inclusive.

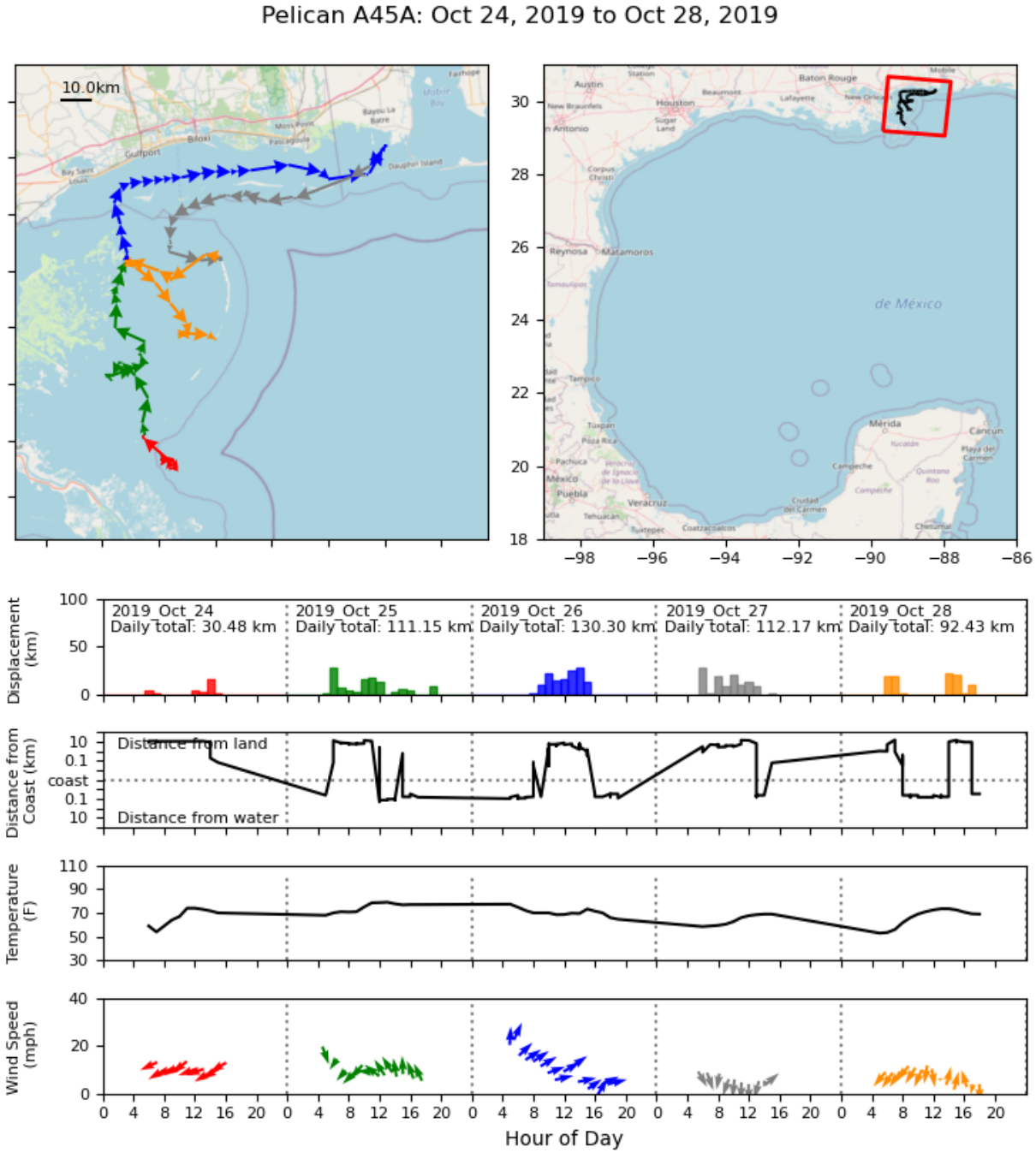

Figure 1048 - Maps and graphs showing movements of A45A between 2019-10-24 and 2019-10-27 inclusive.

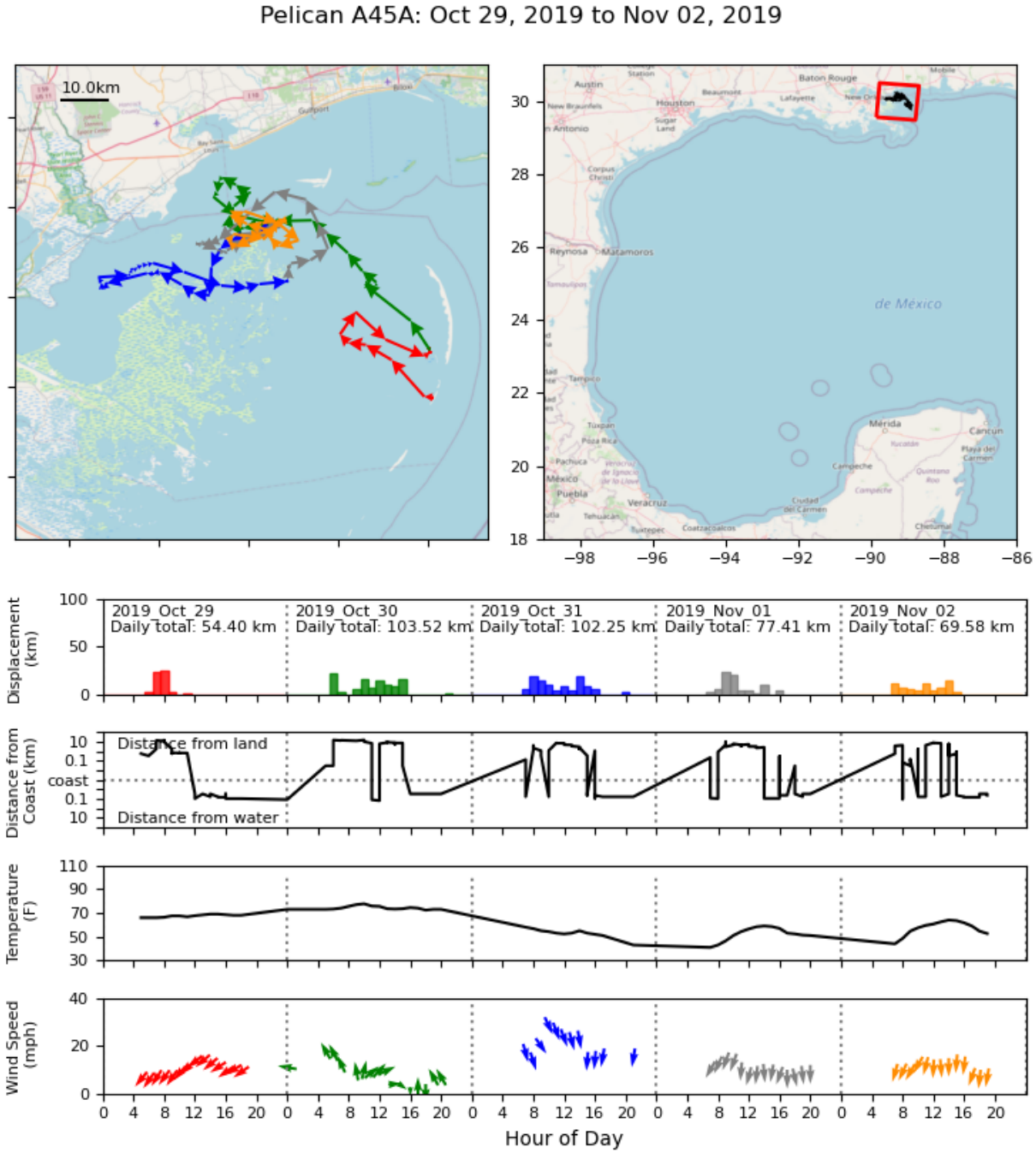

Figure 1049 - Maps and graphs showing movements of A45A between 2019-10-29 and 2019-11-01 inclusive.

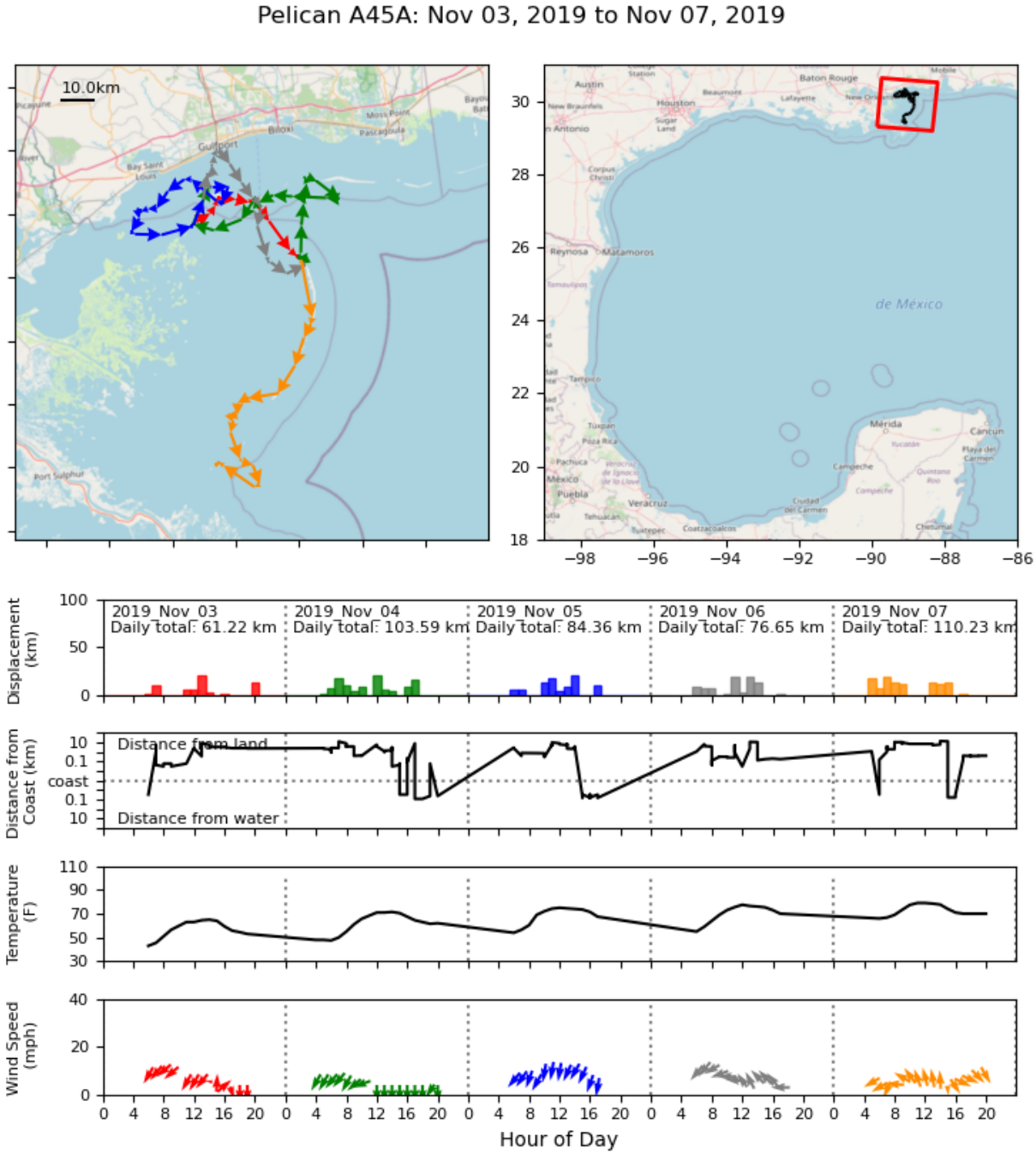

Figure 1050 - Maps and graphs showing movements of A45A between 2019-11-03 and 2019-11-06 inclusive.

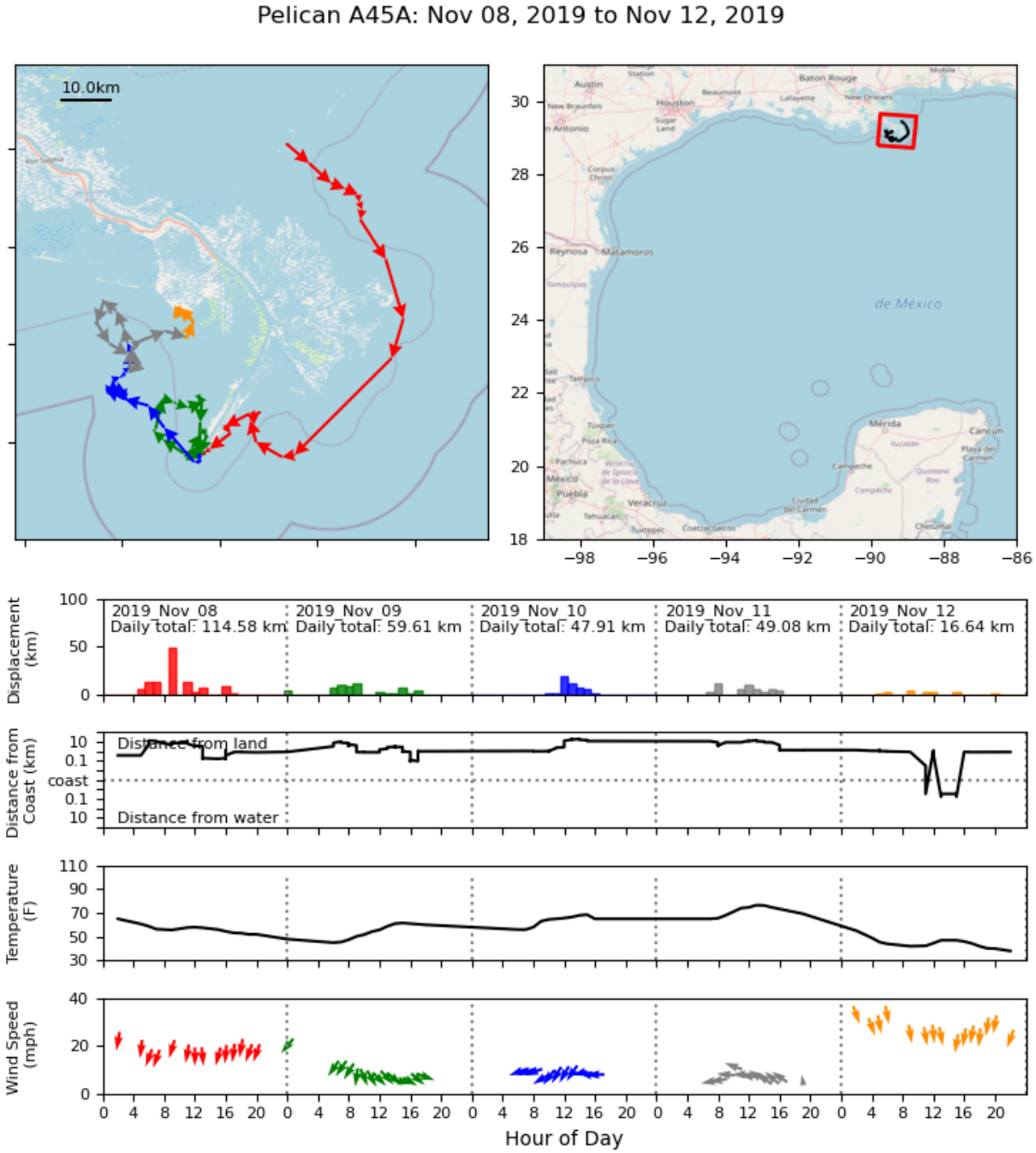

Figure 1051 - Maps and graphs showing movements of A45A between 2019-11-08 and 2019-11-11 inclusive.

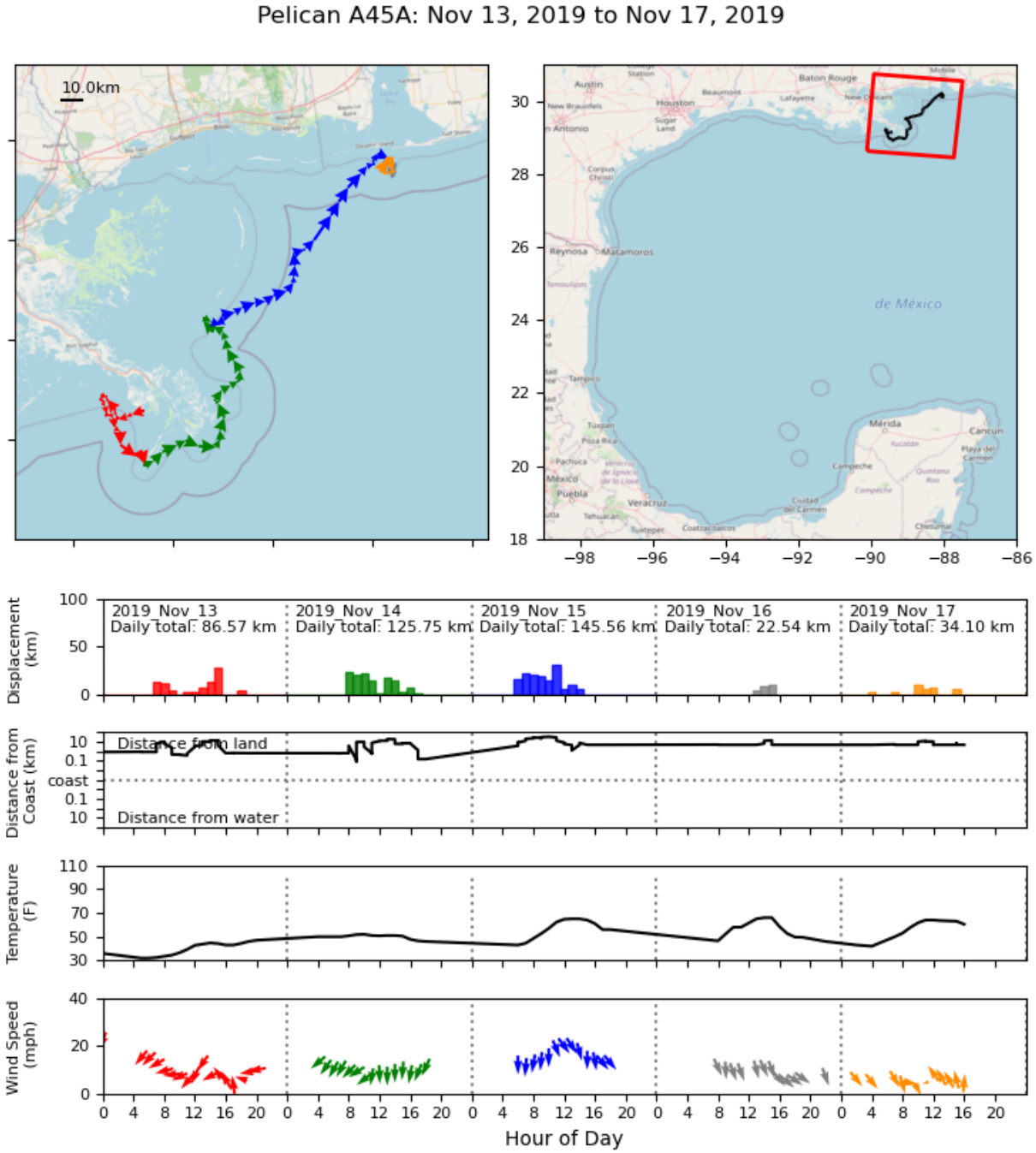

Figure 1052 - Maps and graphs showing movements of A45A between 2019-11-13 and 2019-11-16 inclusive.

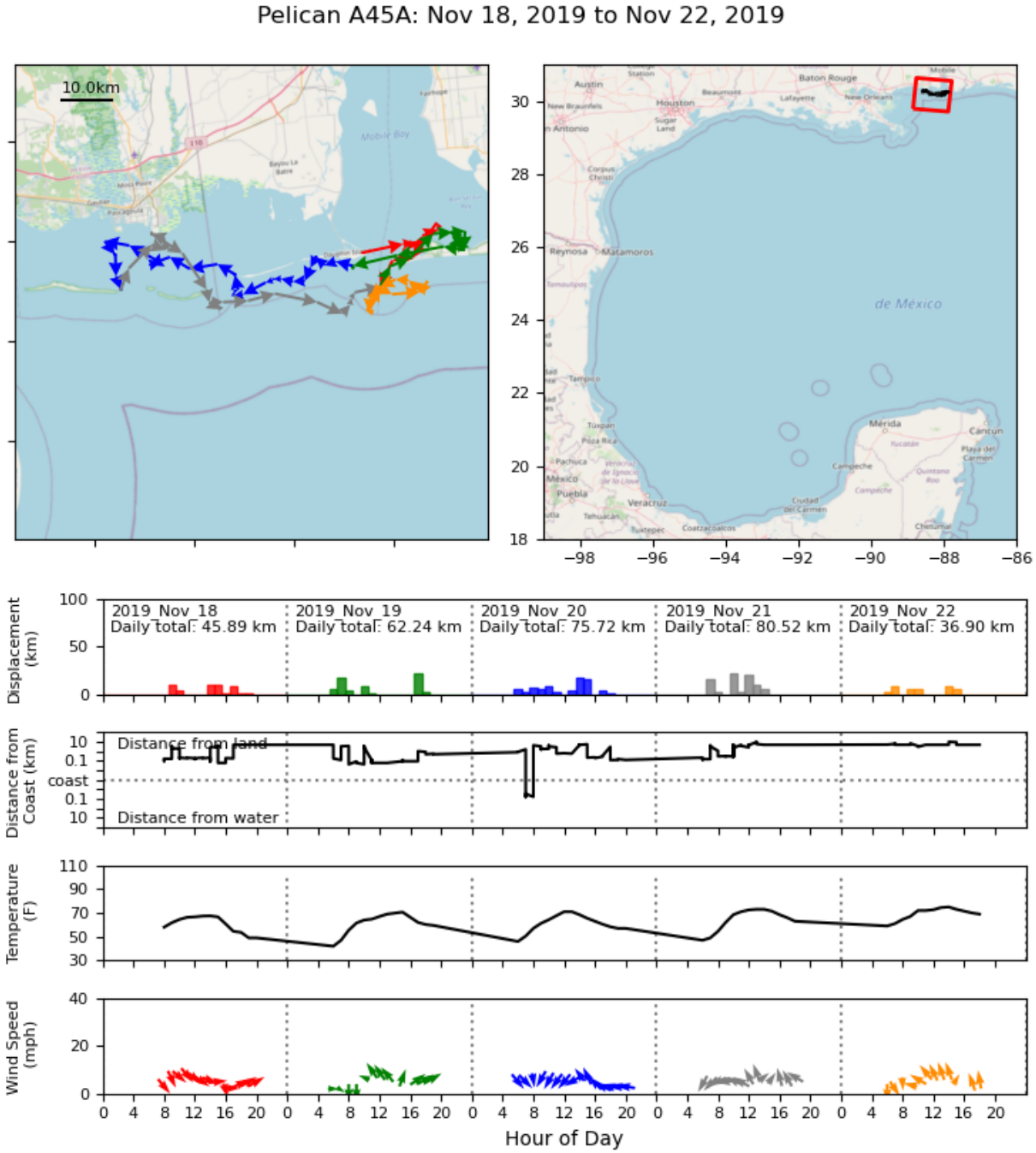

Figure 1053 - Maps and graphs showing movements of A45A between 2019-11-18 and 2019-11-21 inclusive.

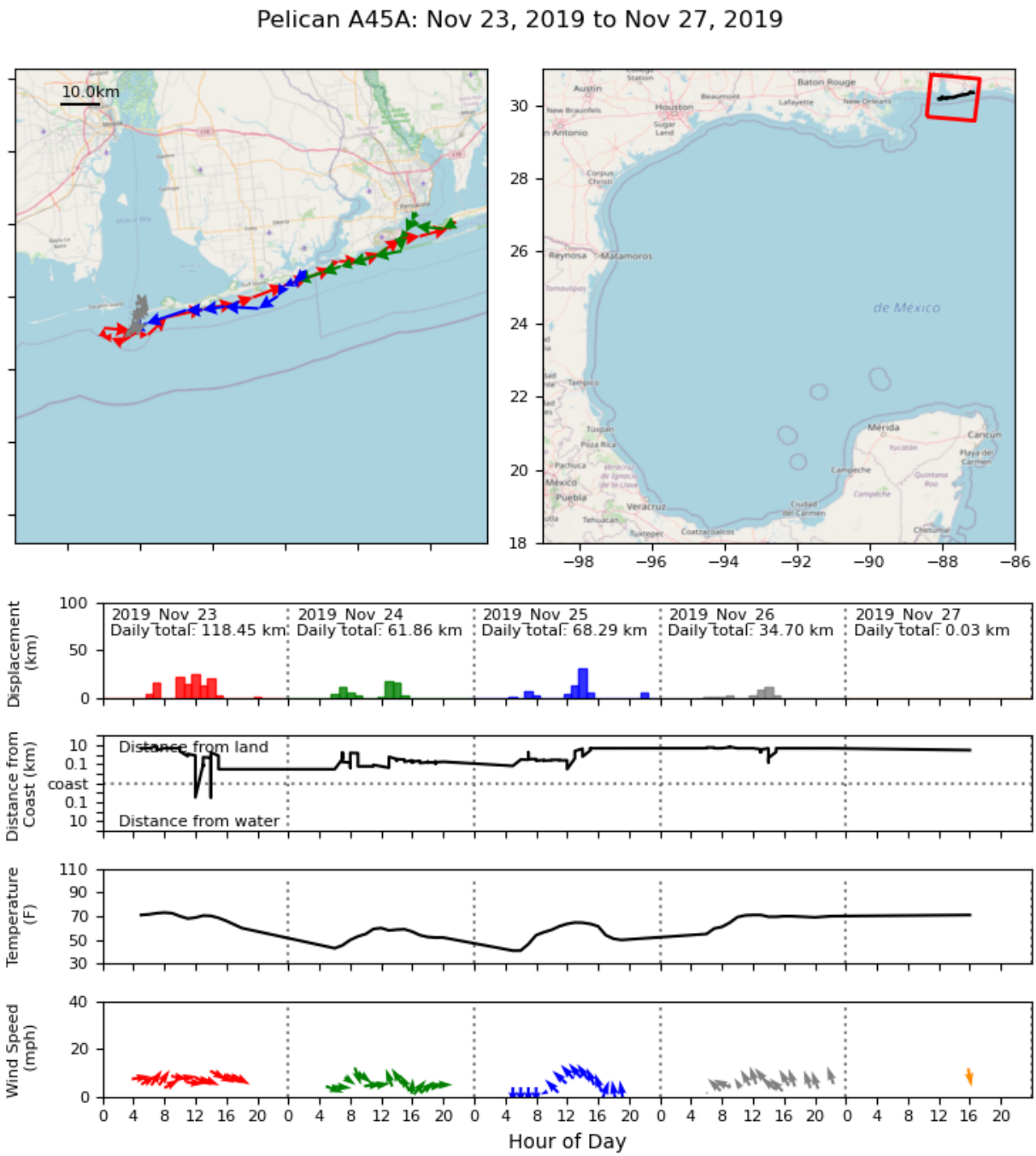

Figure 1054 - Maps and graphs showing movements of A45A between 2019-11-23 and 2019-11-26 inclusive.

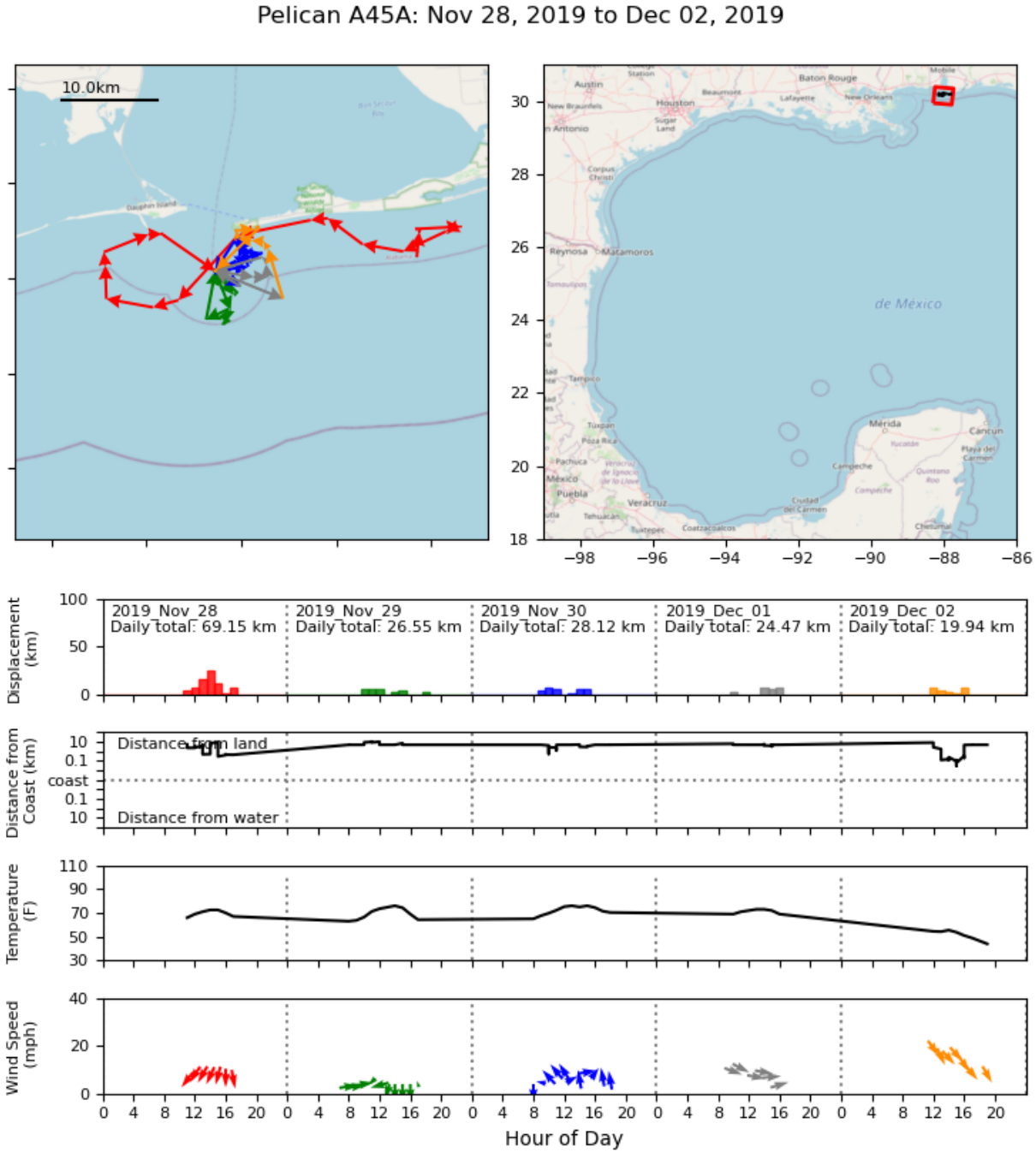

Figure 1055 - Maps and graphs showing movements of A45A between 2019-11-28 and 2019-12-01 inclusive.

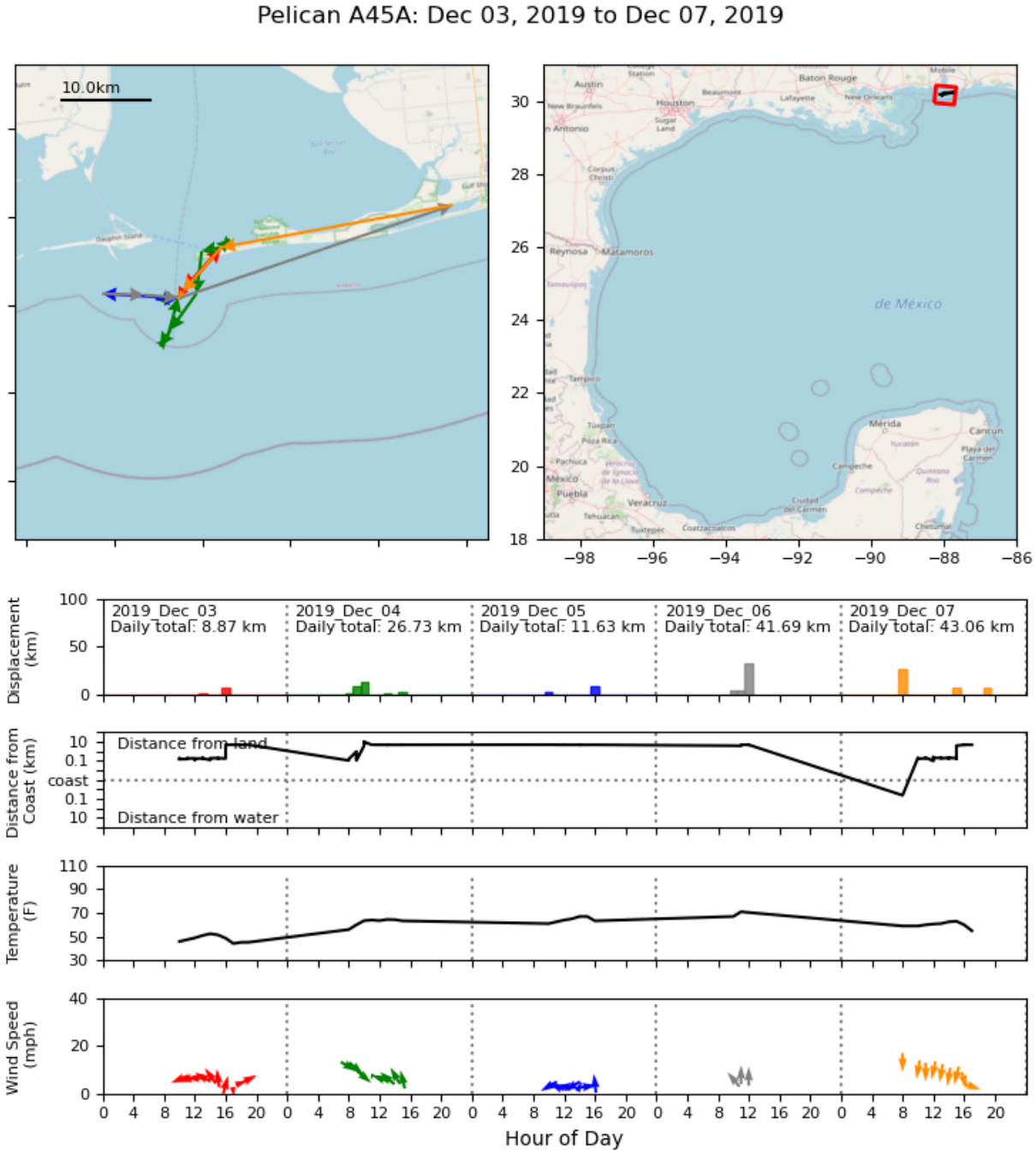

Figure 1056 - Maps and graphs showing movements of A45A between 2019-12-03 and 2019-12-06 inclusive.

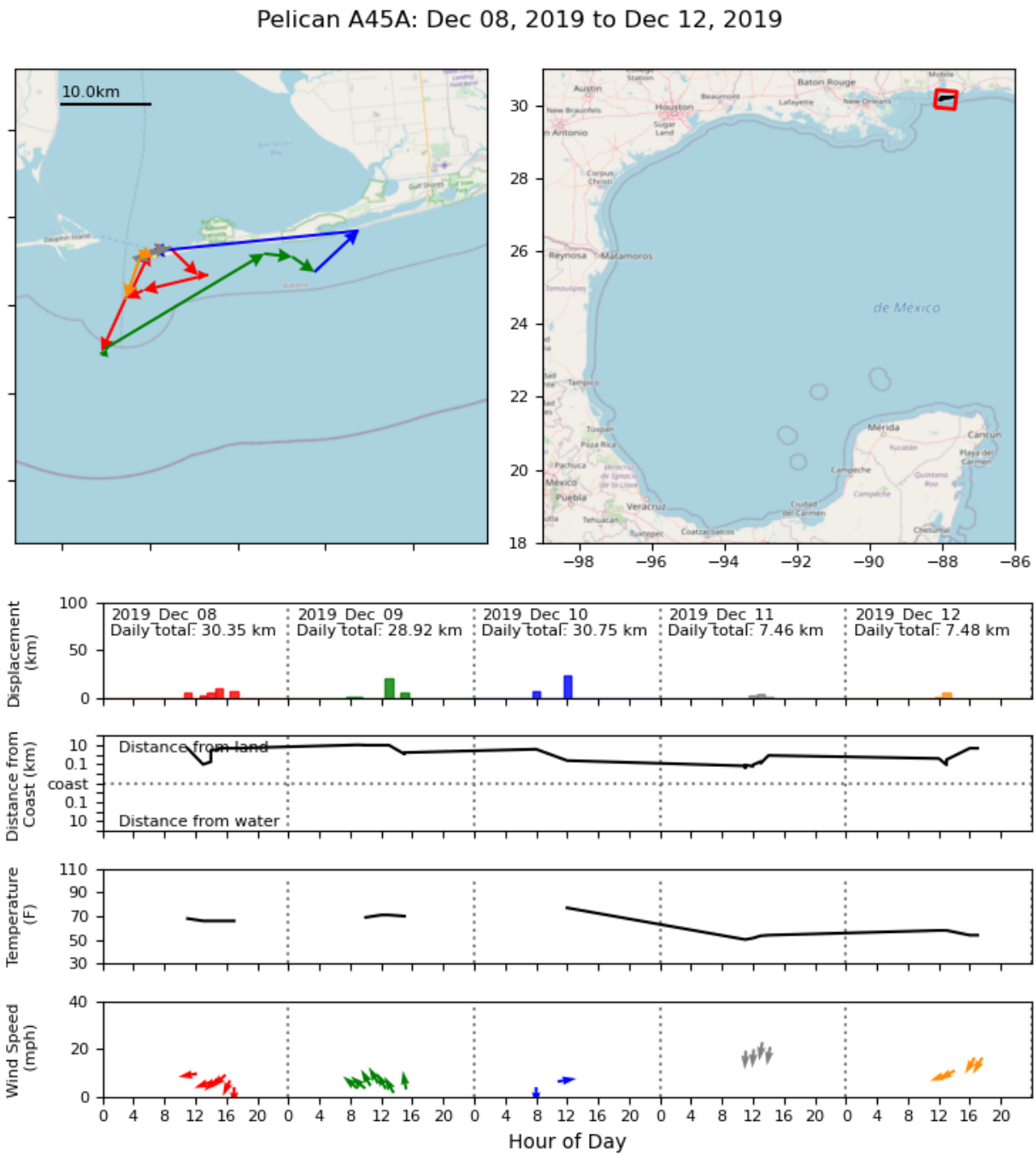

Figure 1057 - Maps and graphs showing movements of A45A between 2019-12-08 and 2019-12-11 inclusive.

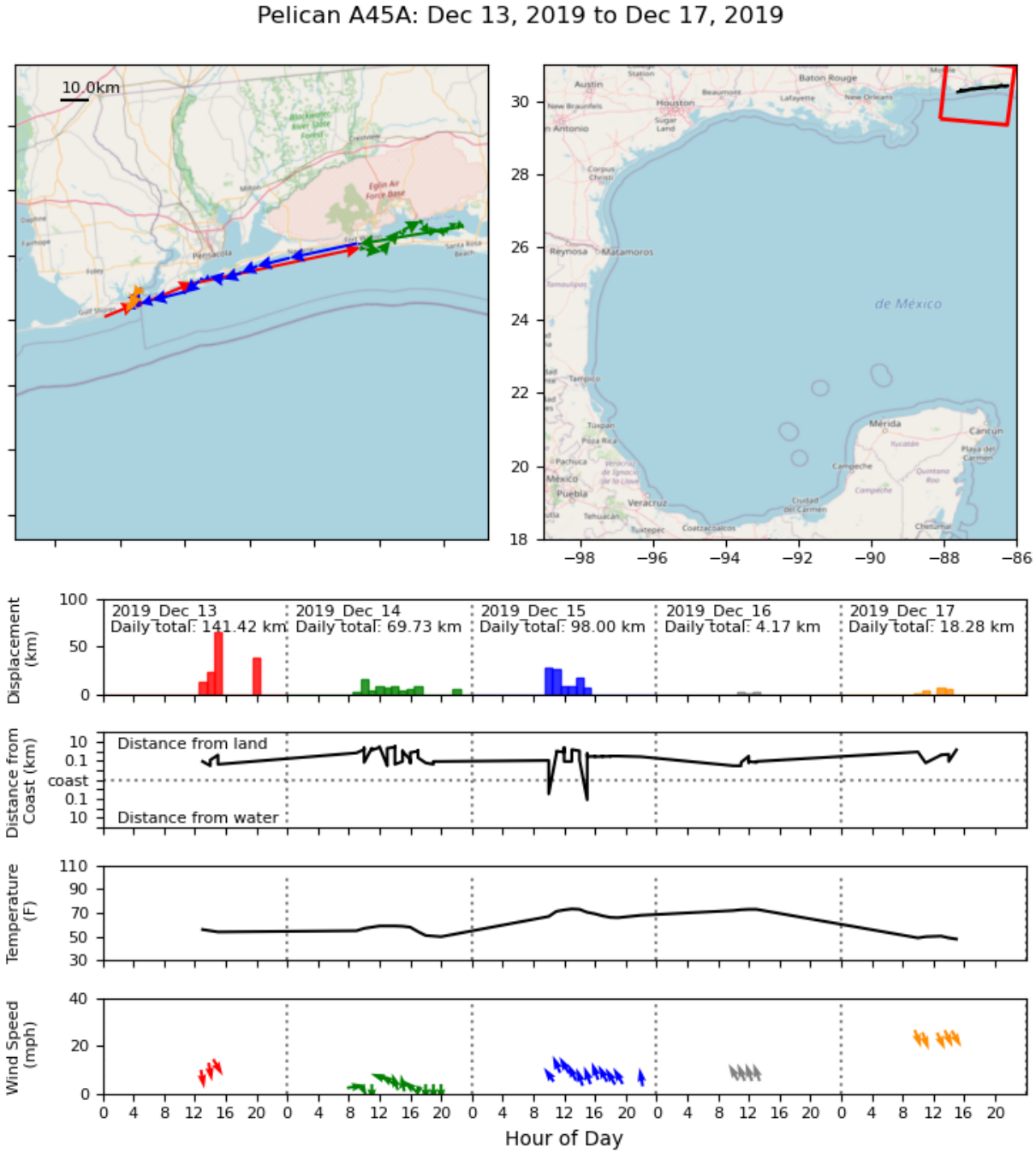

Figure 1058 - Maps and graphs showing movements of A45A between 2019-12-13 and 2019-12-16 inclusive.

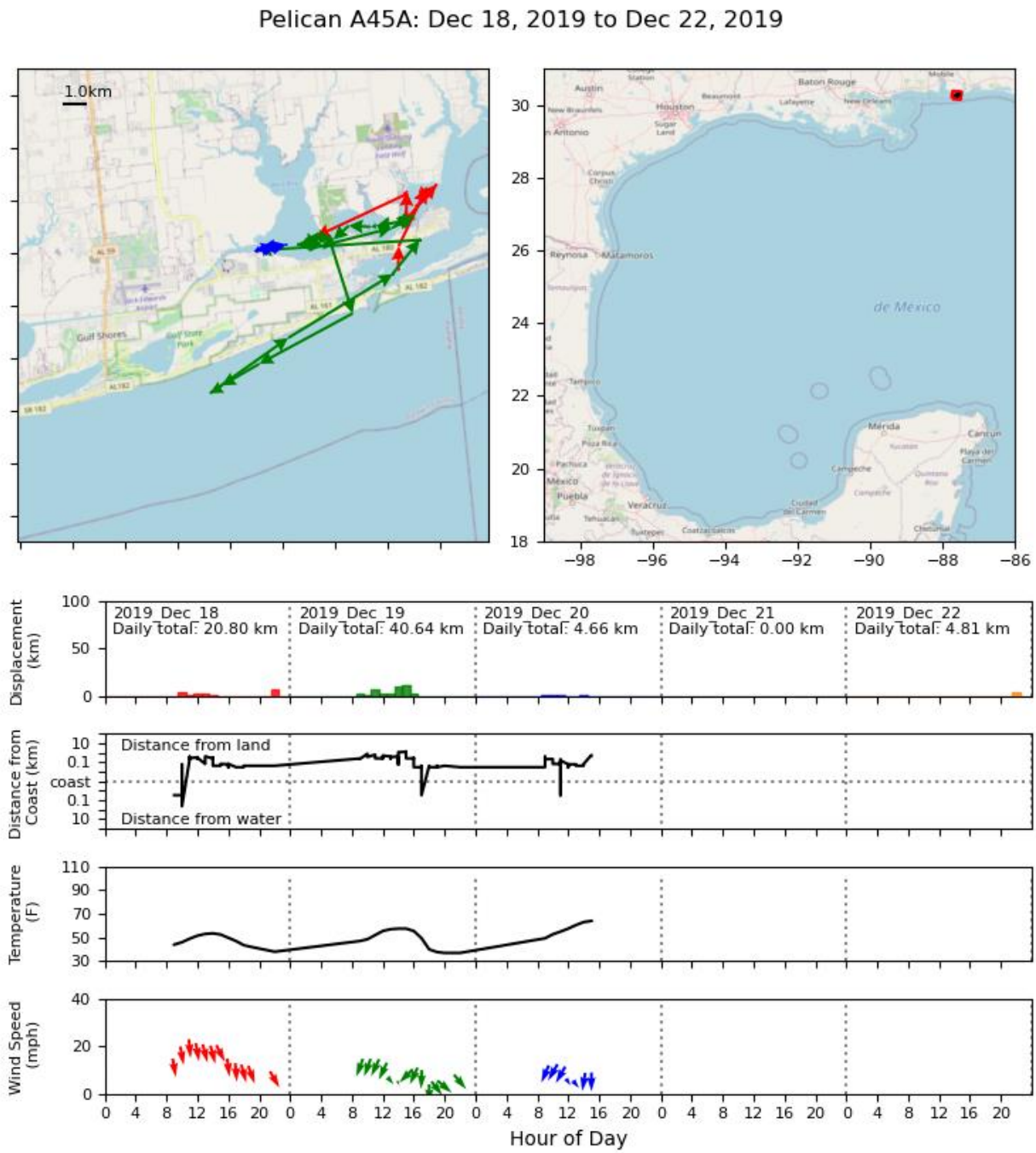

Figure 1059 - Maps and graphs showing movements of A45A between 2019-12-18 and 2019-12-21 inclusive.

Pelican BBA6 - Active from December 27, 2018 to January 09, 2019

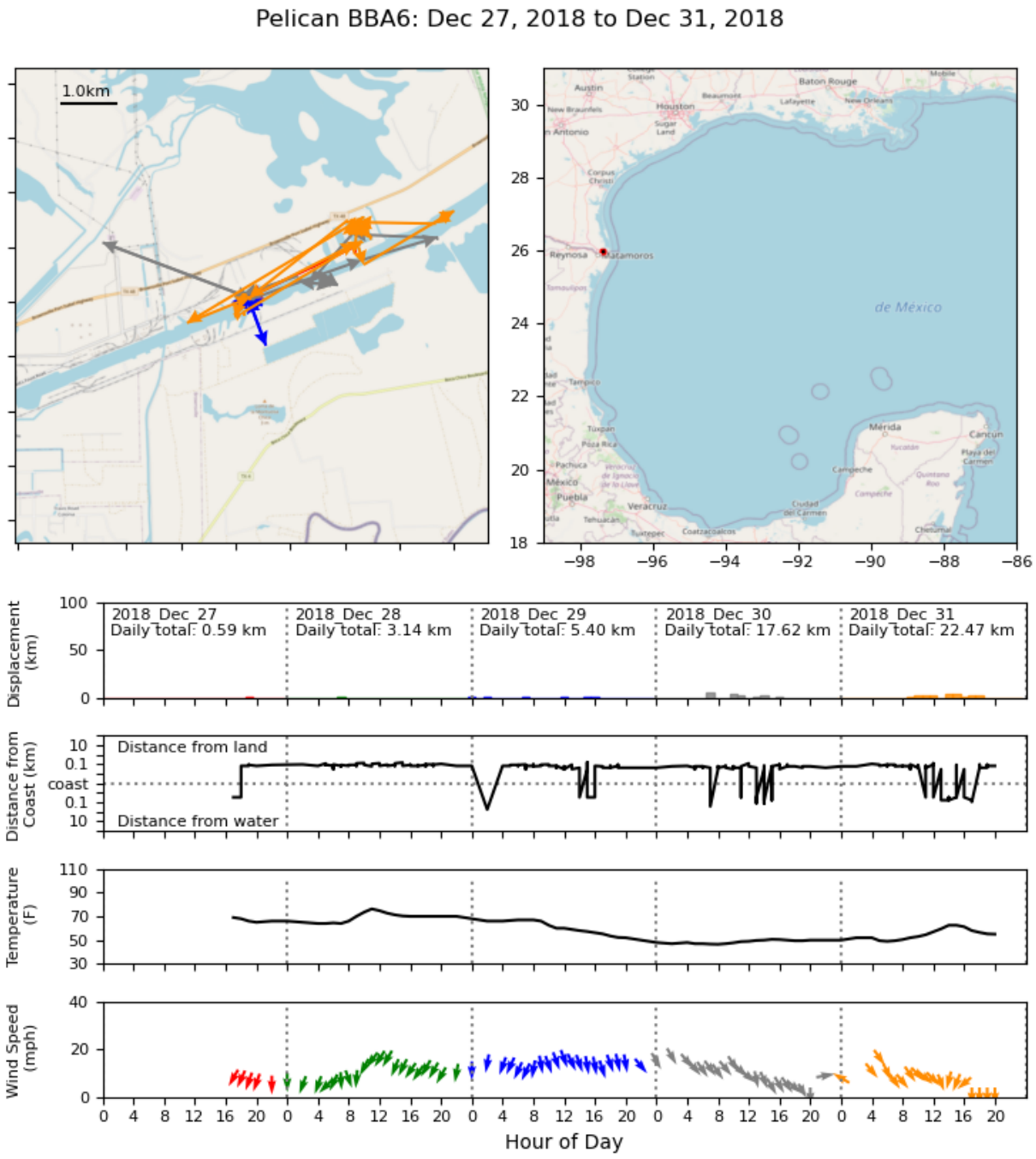

Figure 1060 - Maps and graphs showing movements of BBA6 between 2018-12-27 and 2018-12-30 inclusive.

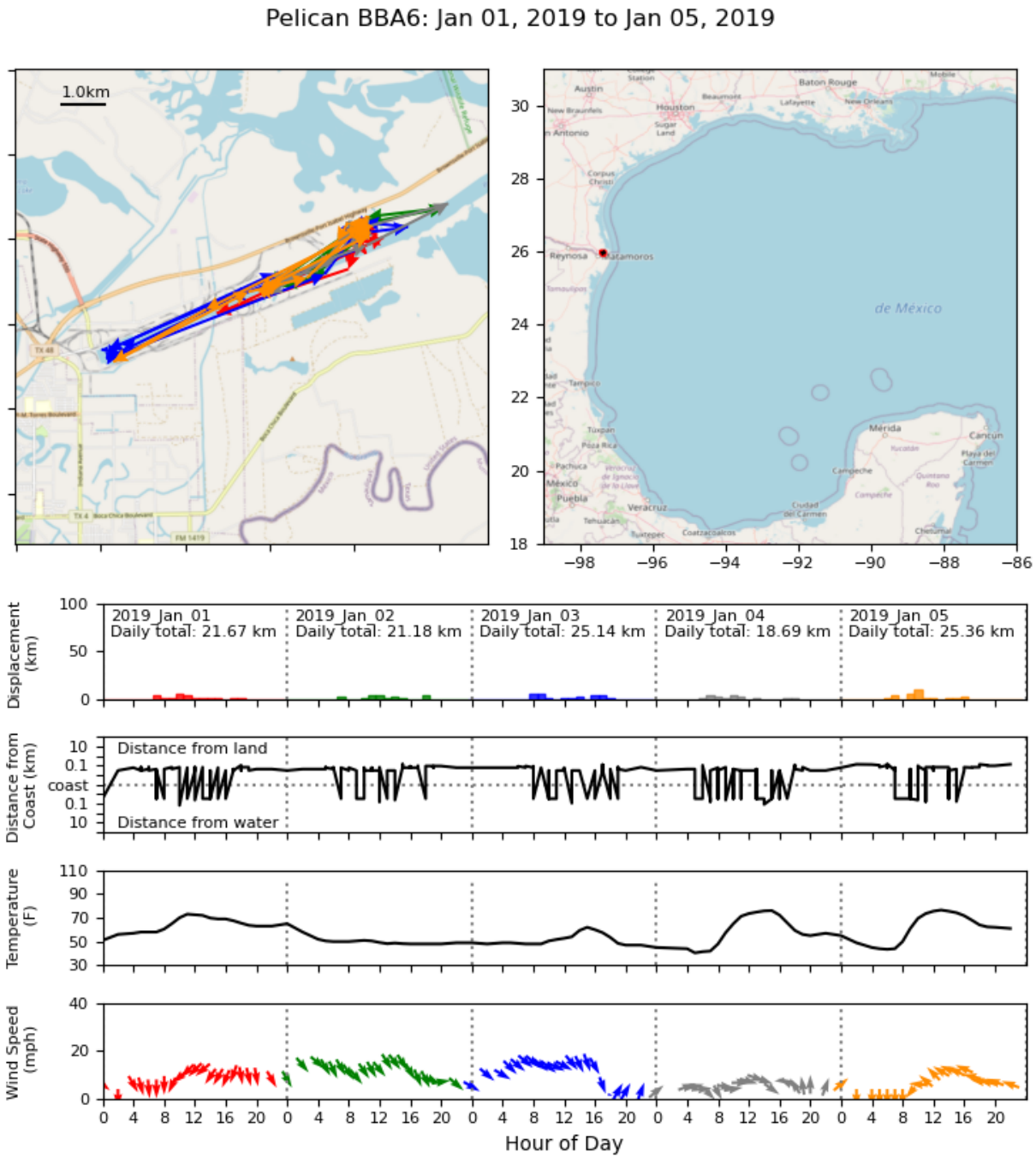

Figure 1061 - Maps and graphs showing movements of BBA6 between 2019-01-01 and 2019-01-04 inclusive.

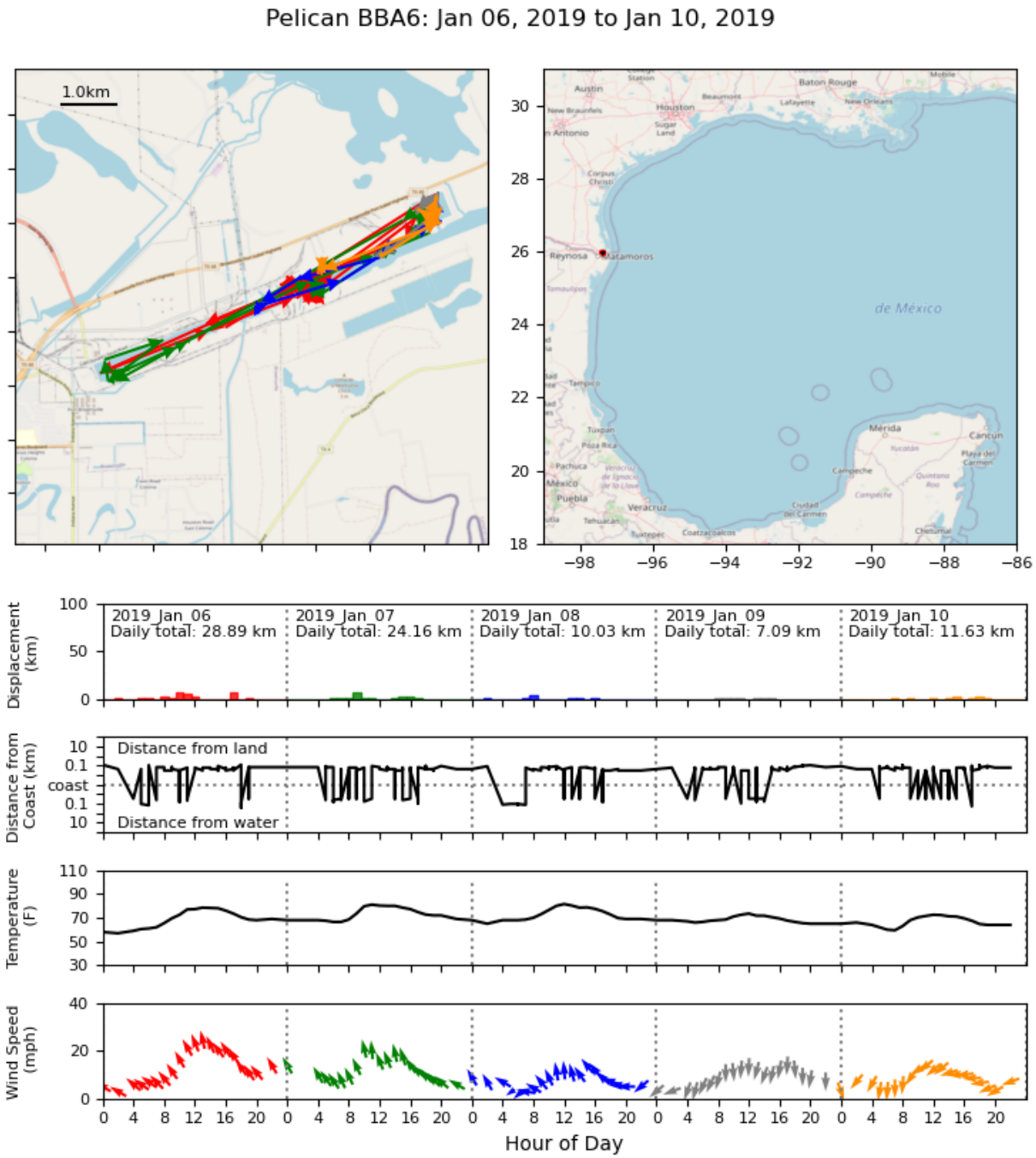

Figure 1062 - Maps and graphs showing movements of BBA6 between 2019-01-06 and 2019-01-09 inclusive.

Pelican A05A - Active from January 01, 2019 to August 02, 2019

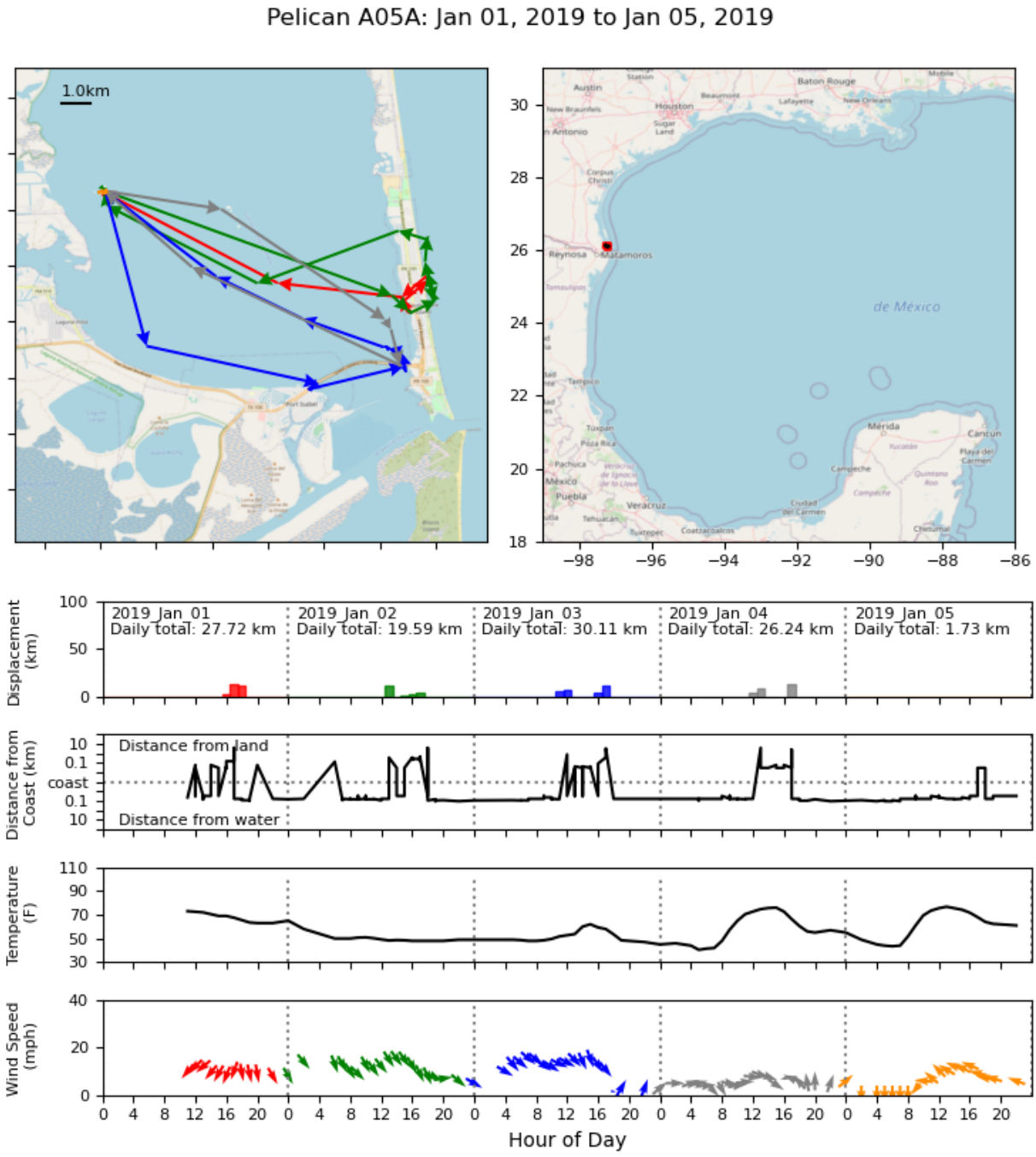

Figure 1063 - Maps and graphs showing movements of A05A between 2019-01-01 and 2019-01-04 inclusive.

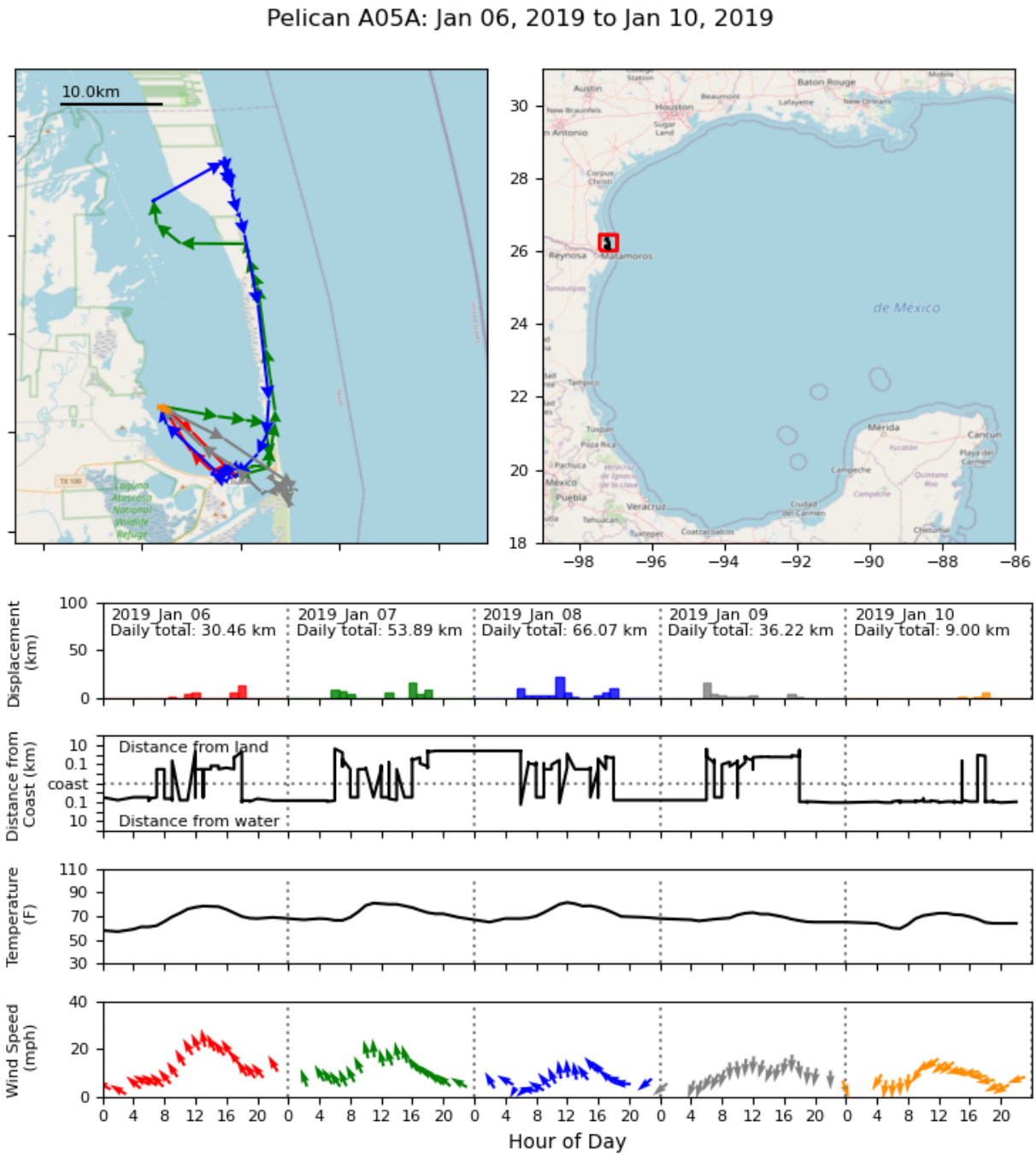

Figure 1064 - Maps and graphs showing movements of A05A between 2019-01-06 and 2019-01-09 inclusive.

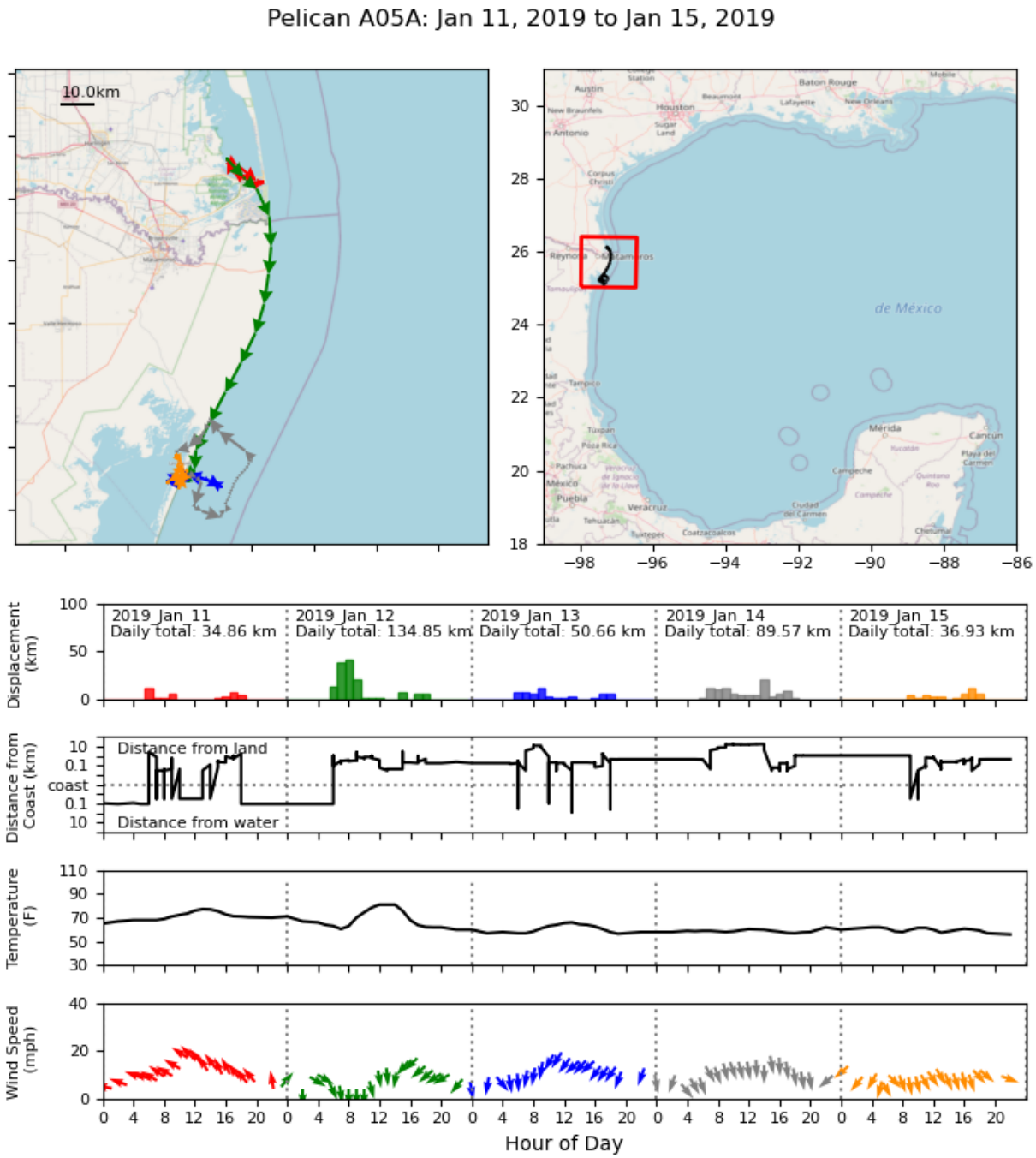

Figure 1065 - Maps and graphs showing movements of A05A between 2019-01-11 and 2019-01-14 inclusive.

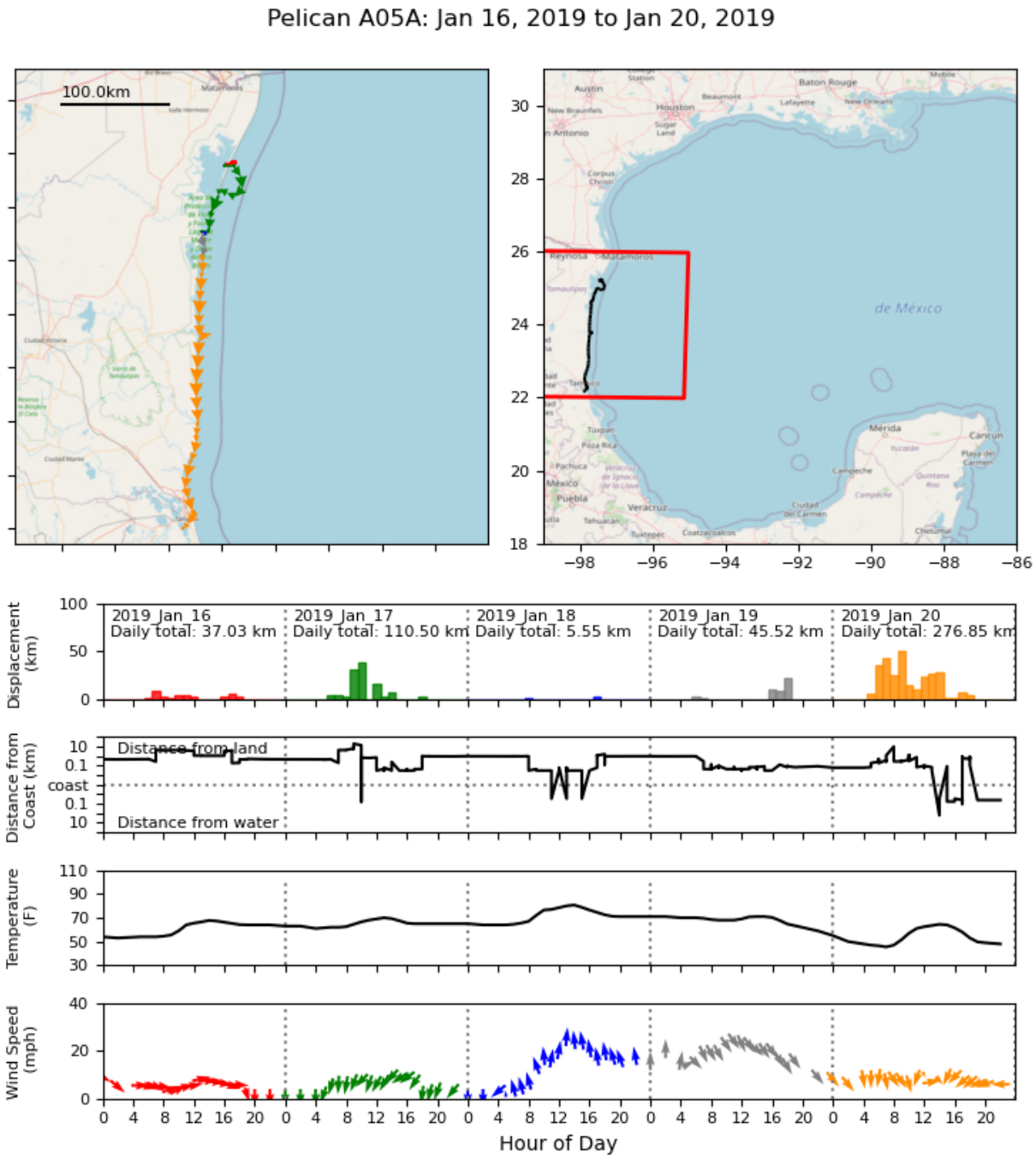

Figure 1066 - Maps and graphs showing movements of A05A between 2019-01-16 and 2019-01-19 inclusive.

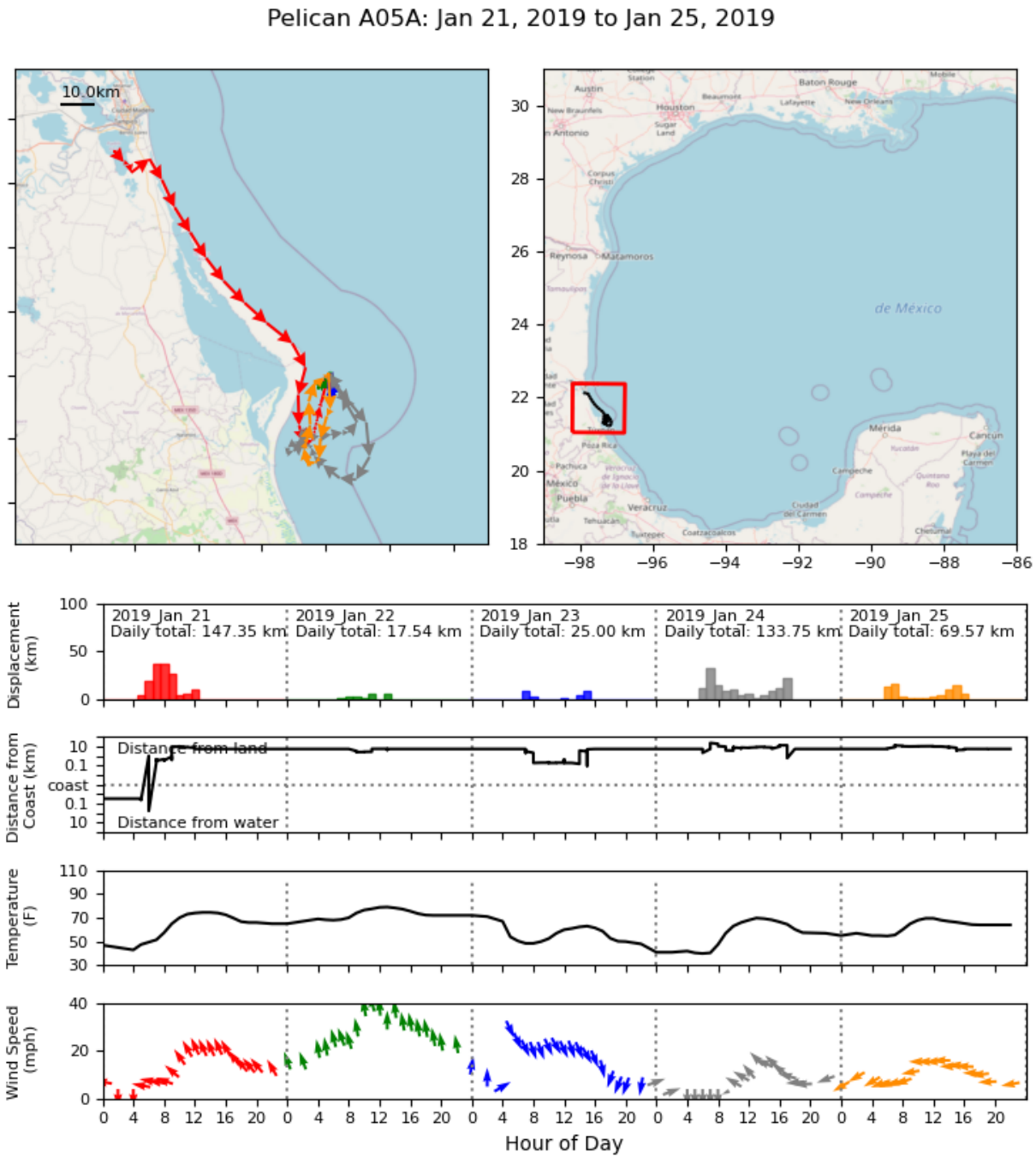

Figure 1067 - Maps and graphs showing movements of A05A between 2019-01-21 and 2019-01-24 inclusive.

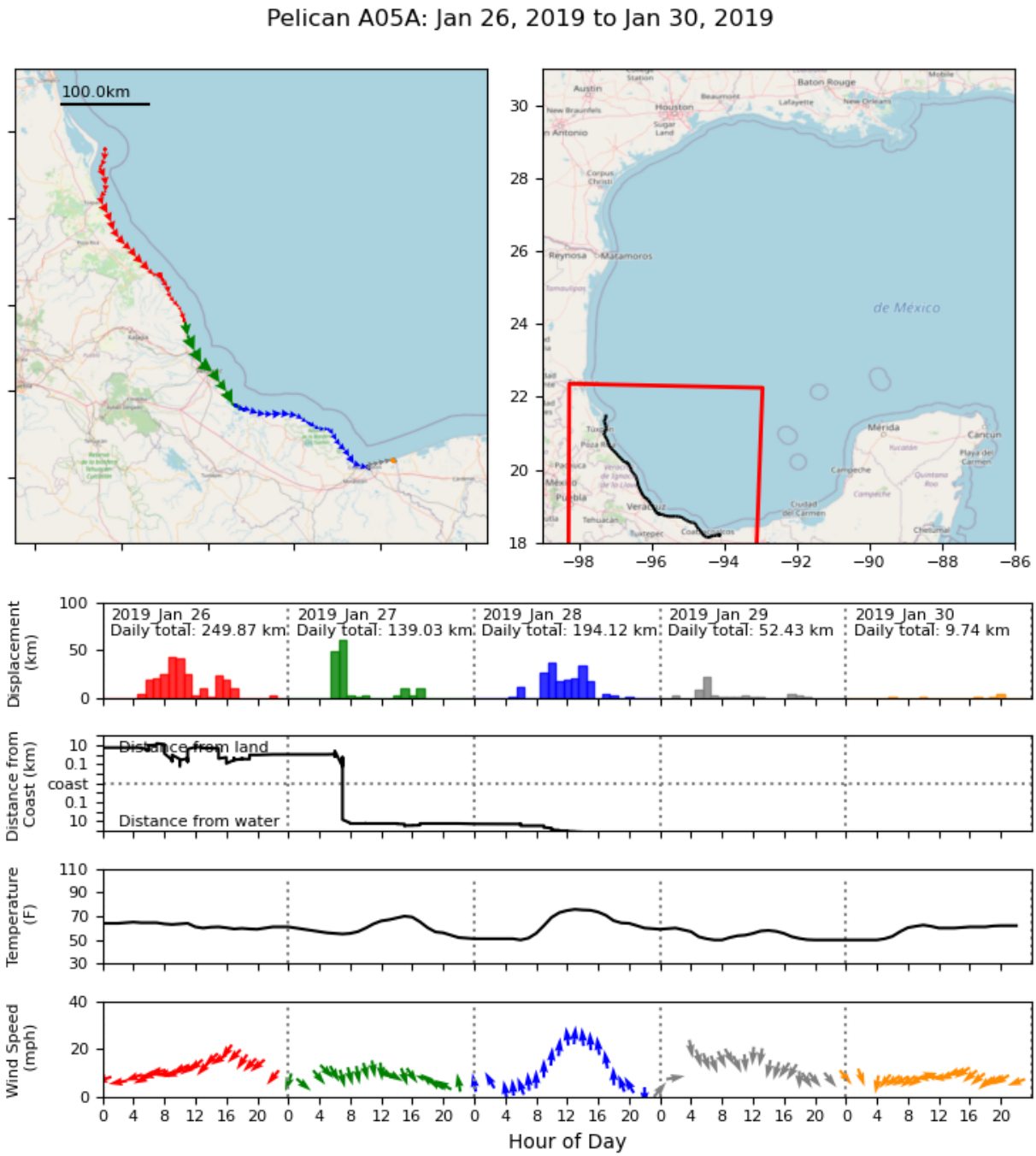

Figure 1068 - Maps and graphs showing movements of A05A between 2019-01-26 and 2019-01-29 inclusive.

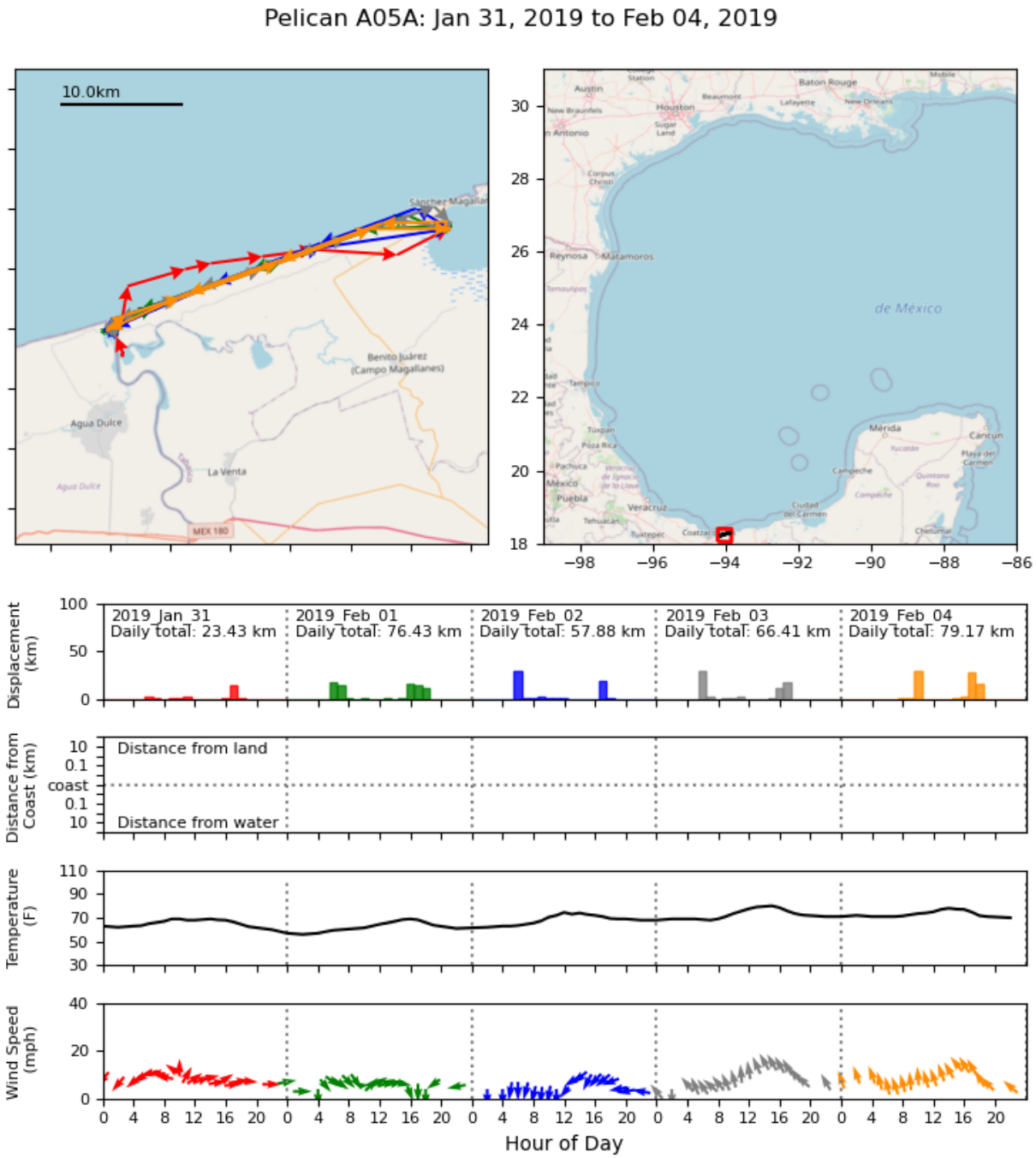

Figure 1069 - Maps and graphs showing movements of A05A between 2019-01-31 and 2019-02-03 inclusive.

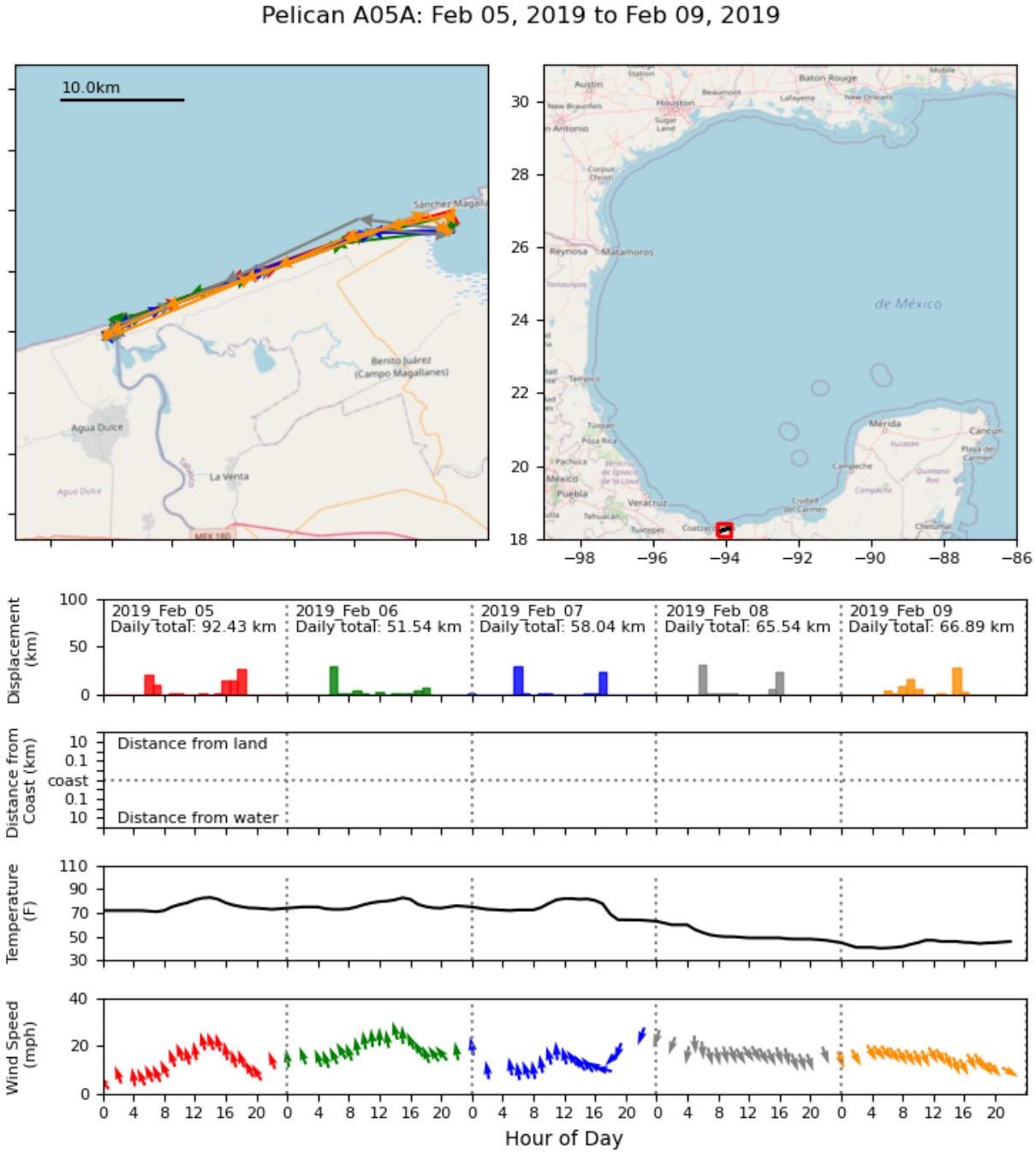

Figure 1070 - Maps and graphs showing movements of A05A between 2019-02-05 and 2019-02-08 inclusive.

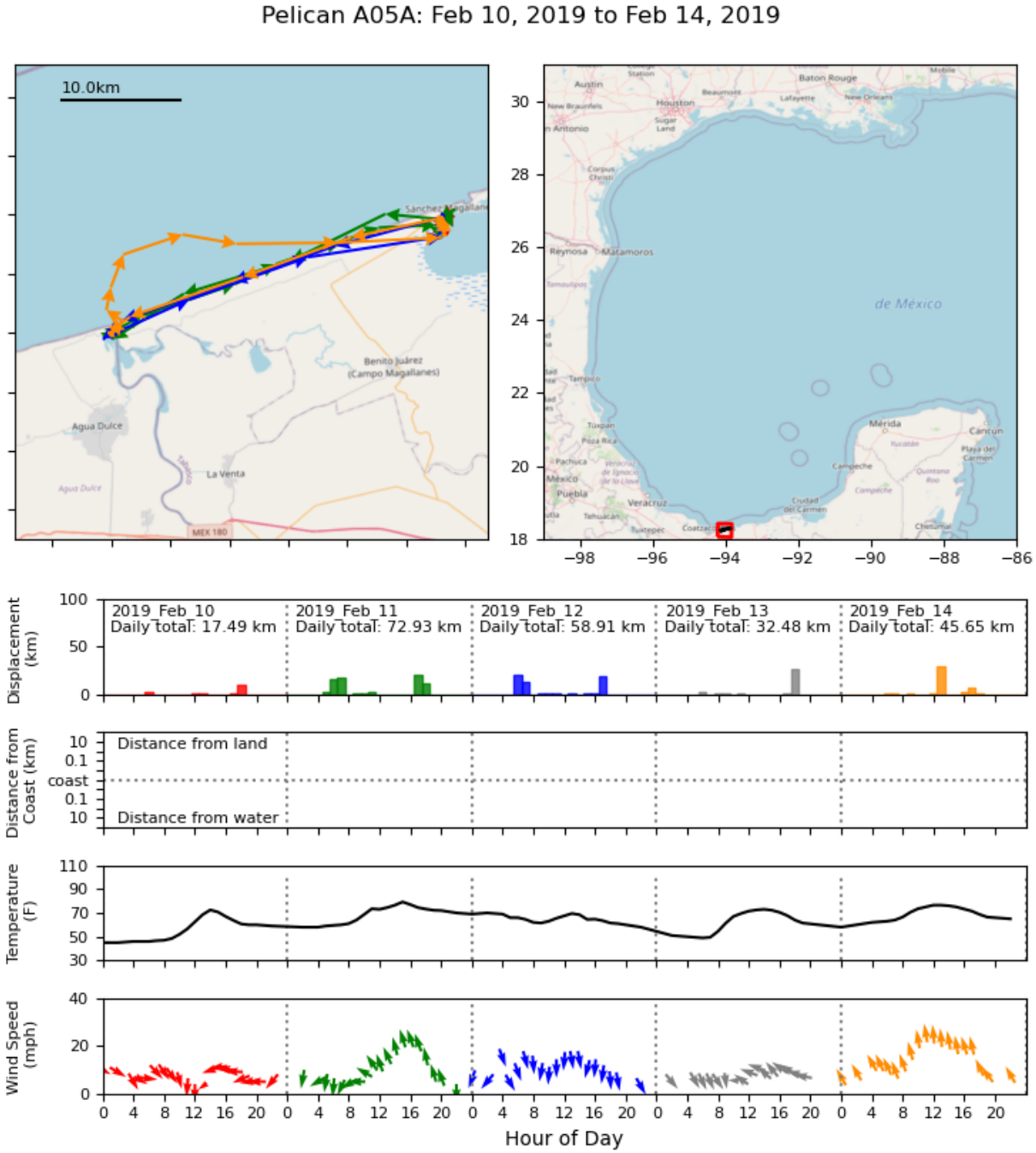

Figure 1071 - Maps and graphs showing movements of A05A between 2019-02-10 and 2019-02-13 inclusive.

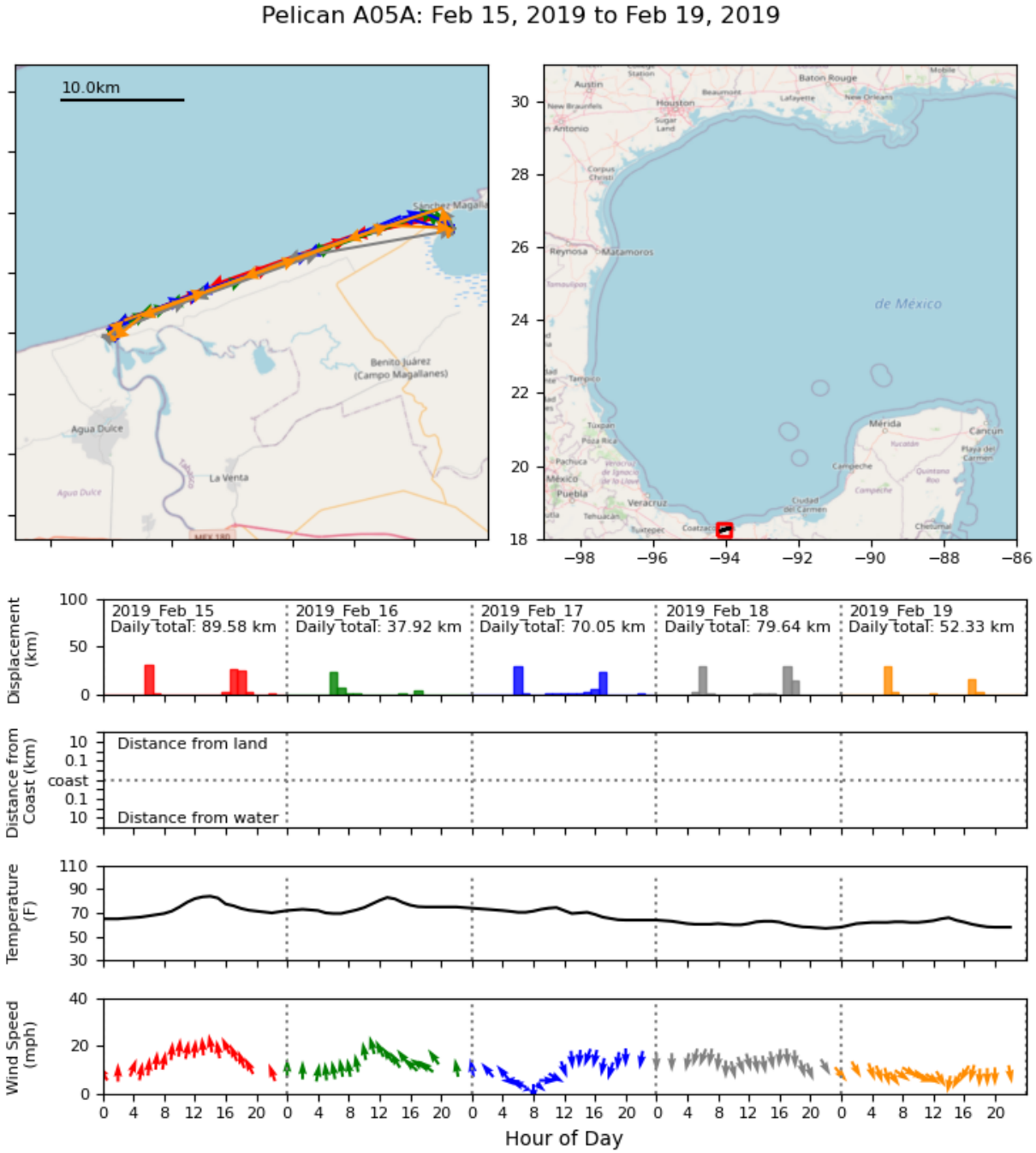

Figure 1072 - Maps and graphs showing movements of A05A between 2019-02-15 and 2019-02-18 inclusive.

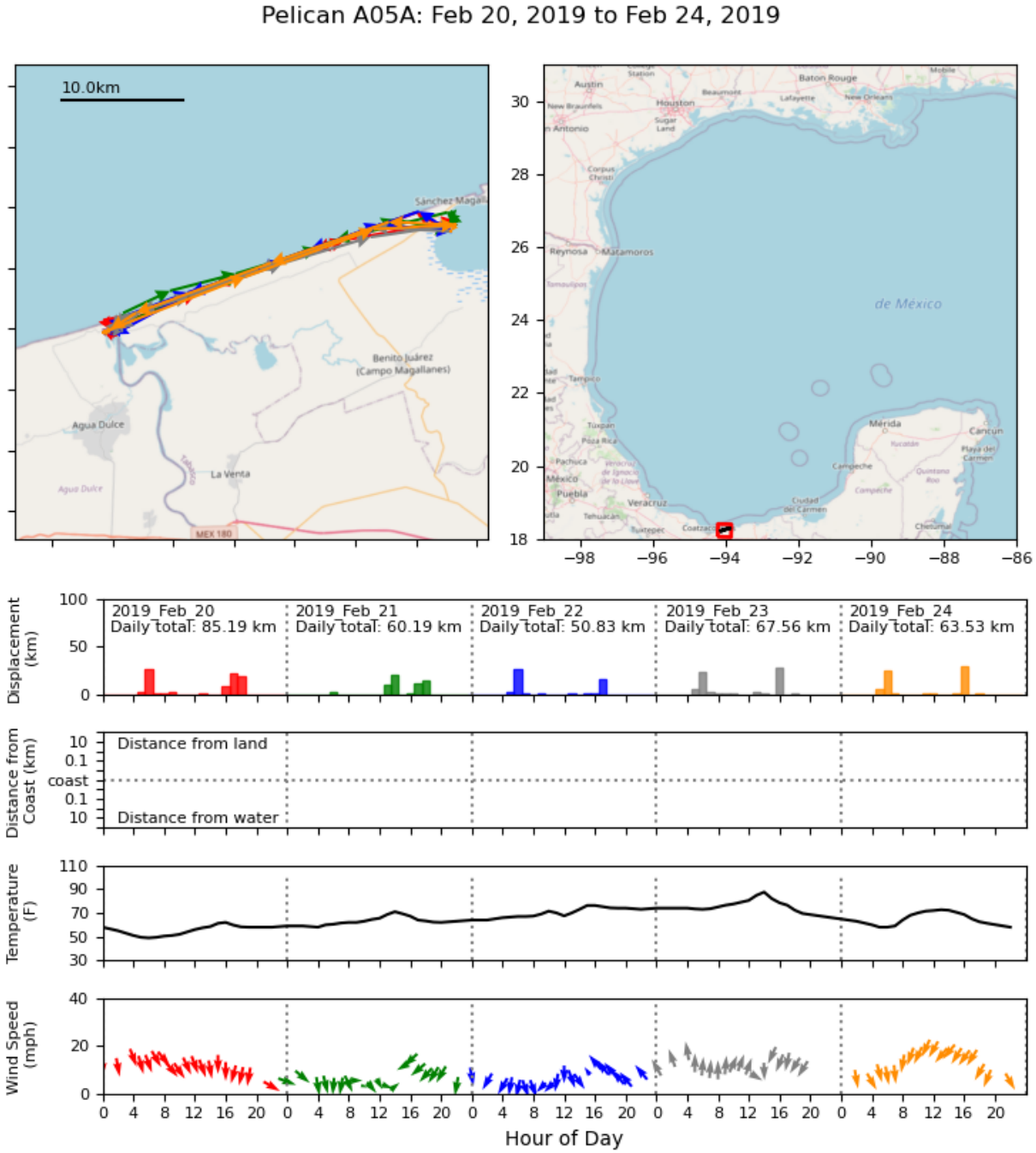

Figure 1073 - Maps and graphs showing movements of A05A between 2019-02-20 and 2019-02-23 inclusive.

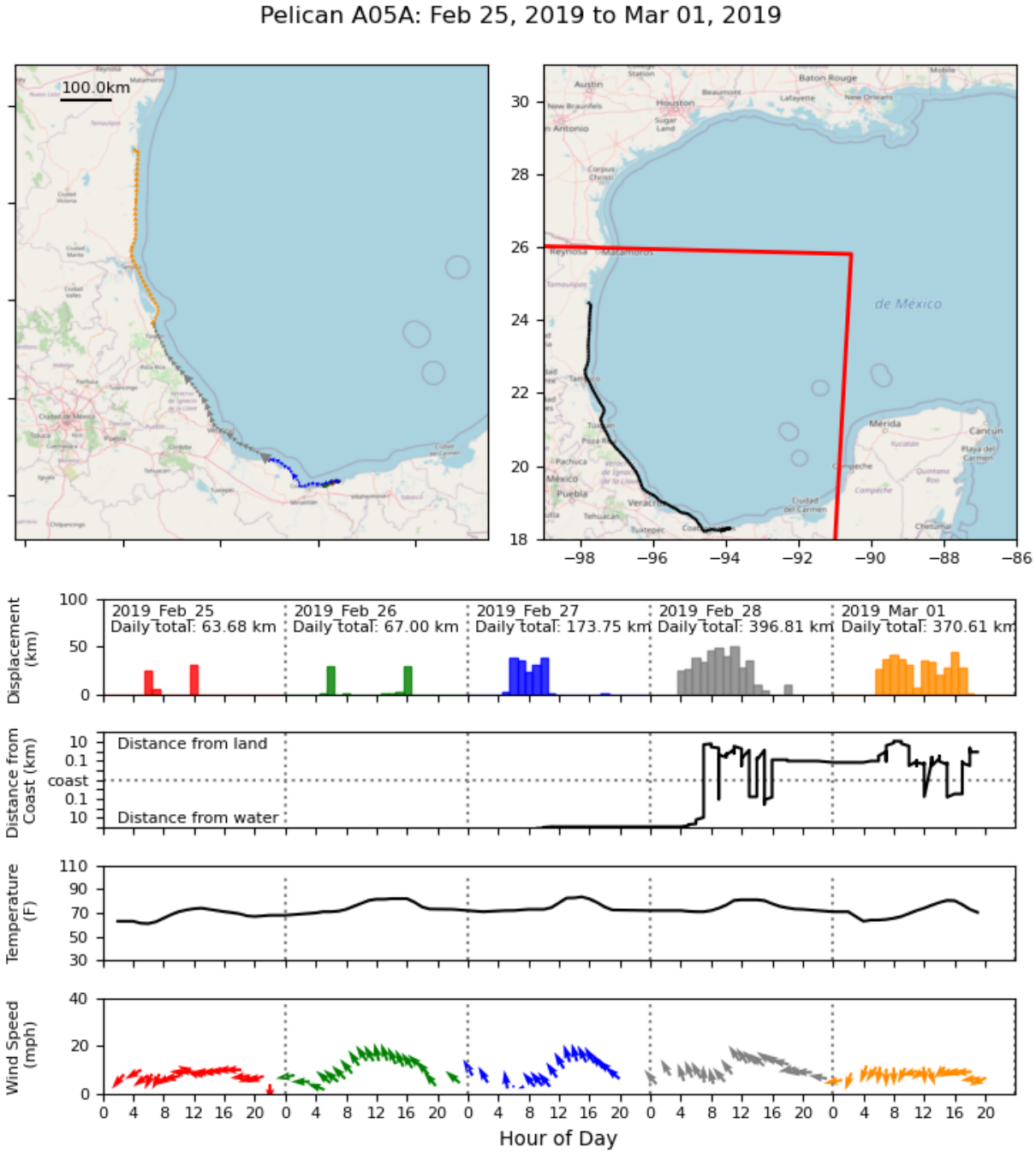

Figure 1074 - Maps and graphs showing movements of A05A between 2019-02-25 and 2019-02-28 inclusive.

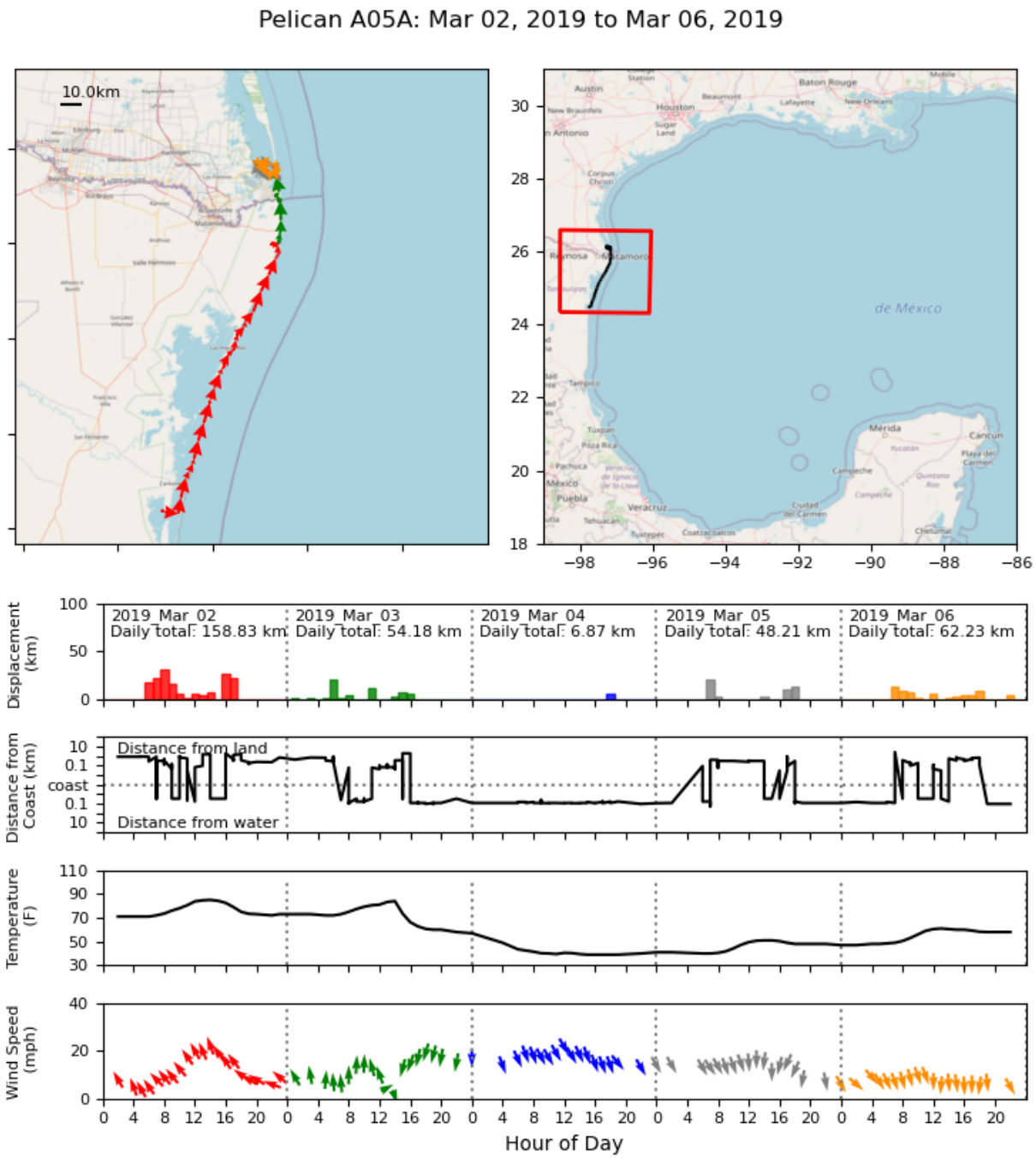

Figure 1075 - Maps and graphs showing movements of A05A between 2019-03-02 and 2019-03-05 inclusive.

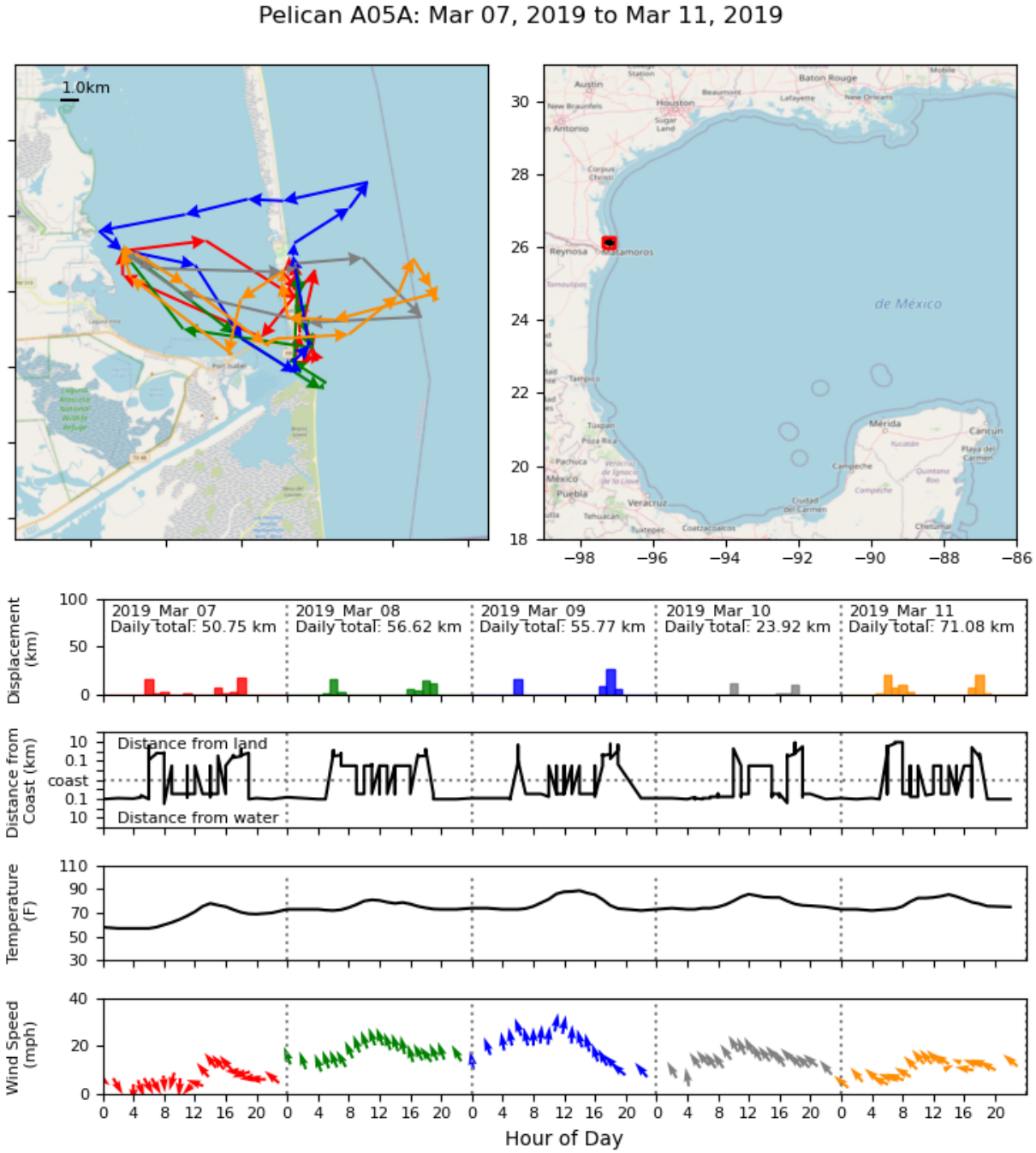

Figure 1076 - Maps and graphs showing movements of A05A between 2019-03-07 and 2019-03-10 inclusive.

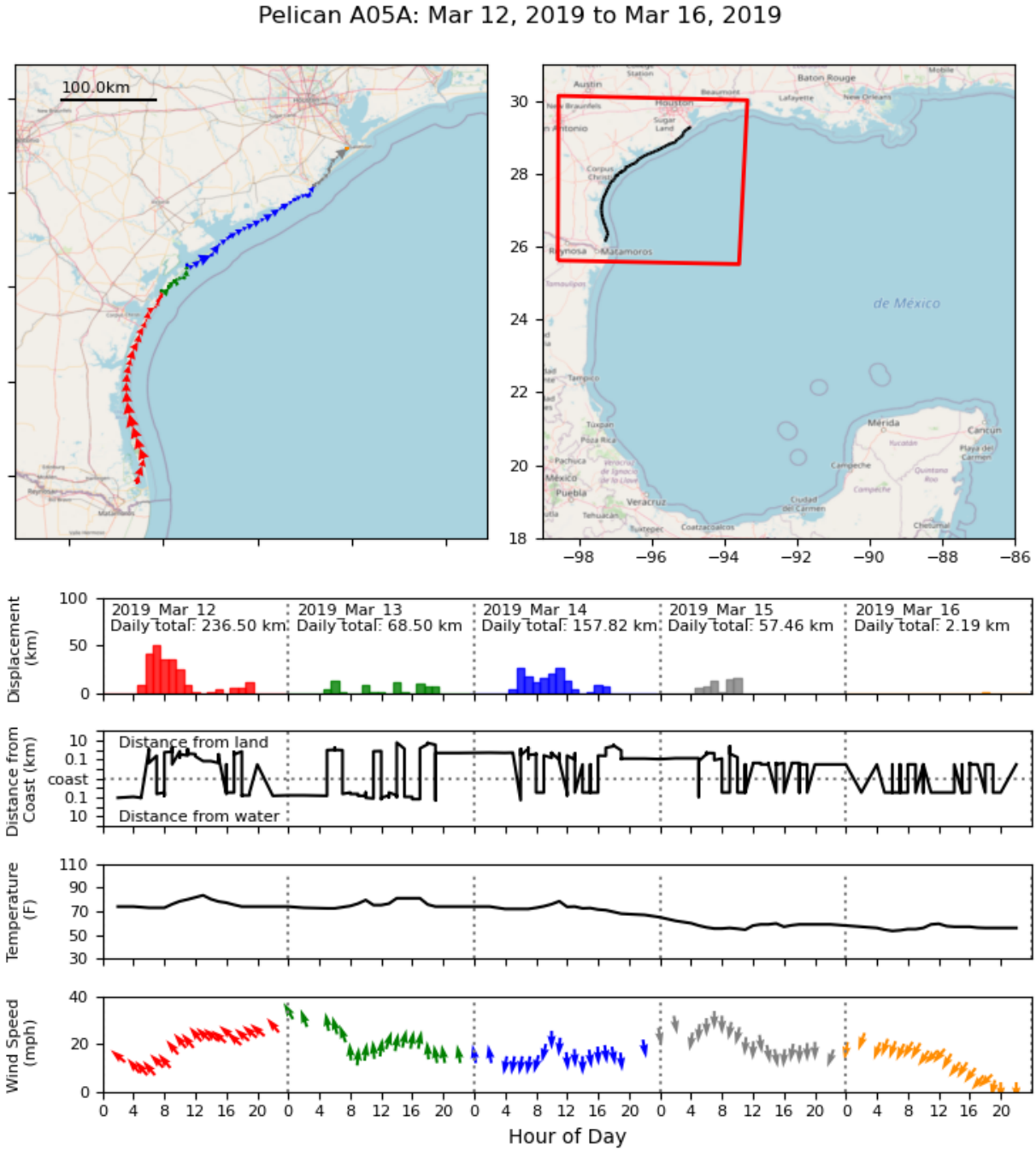

Figure 1077 - Maps and graphs showing movements of A05A between 2019-03-12 and 2019-03-15 inclusive.

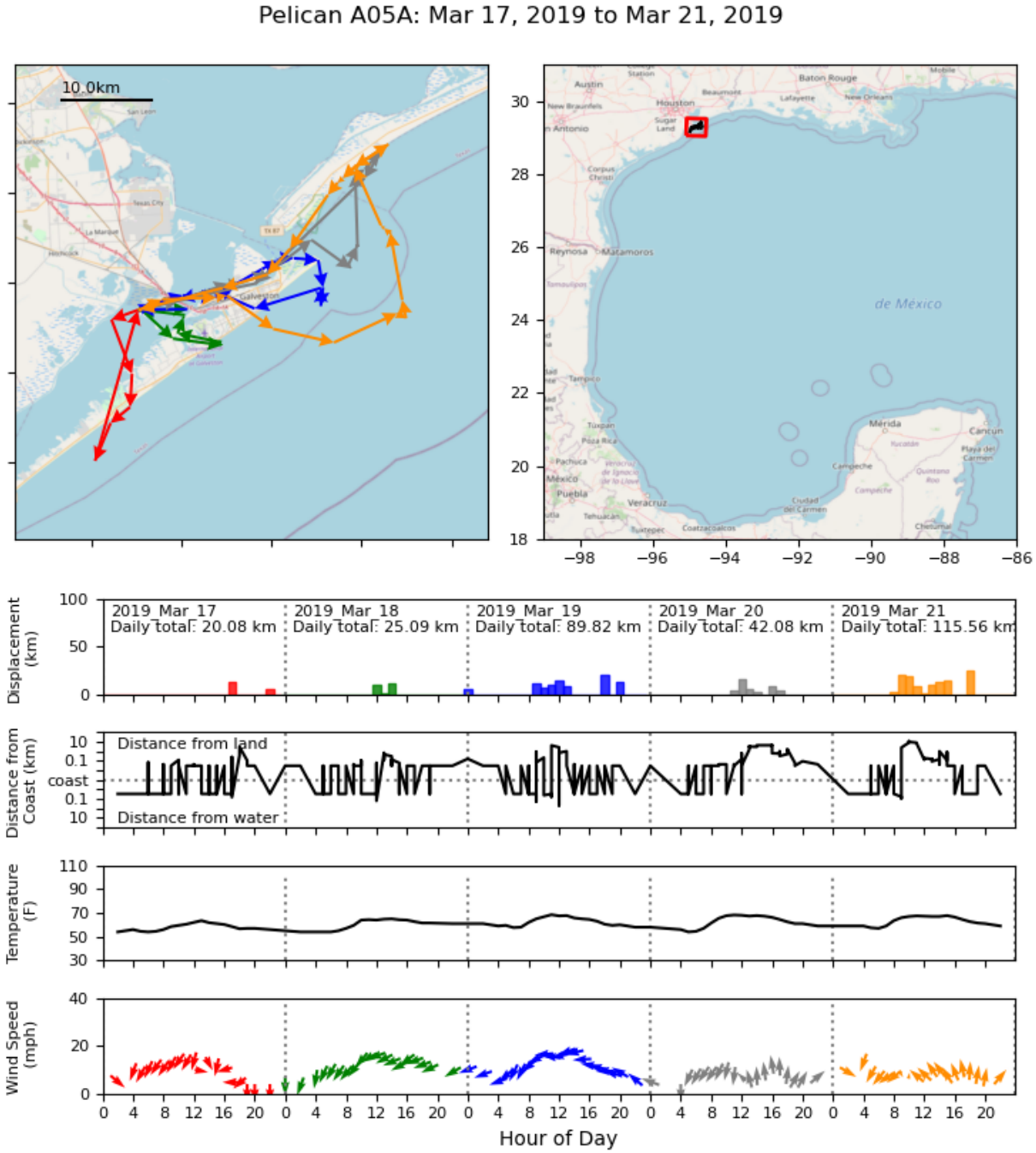

Figure 1078 - Maps and graphs showing movements of A05A between 2019-03-17 and 2019-03-20 inclusive.

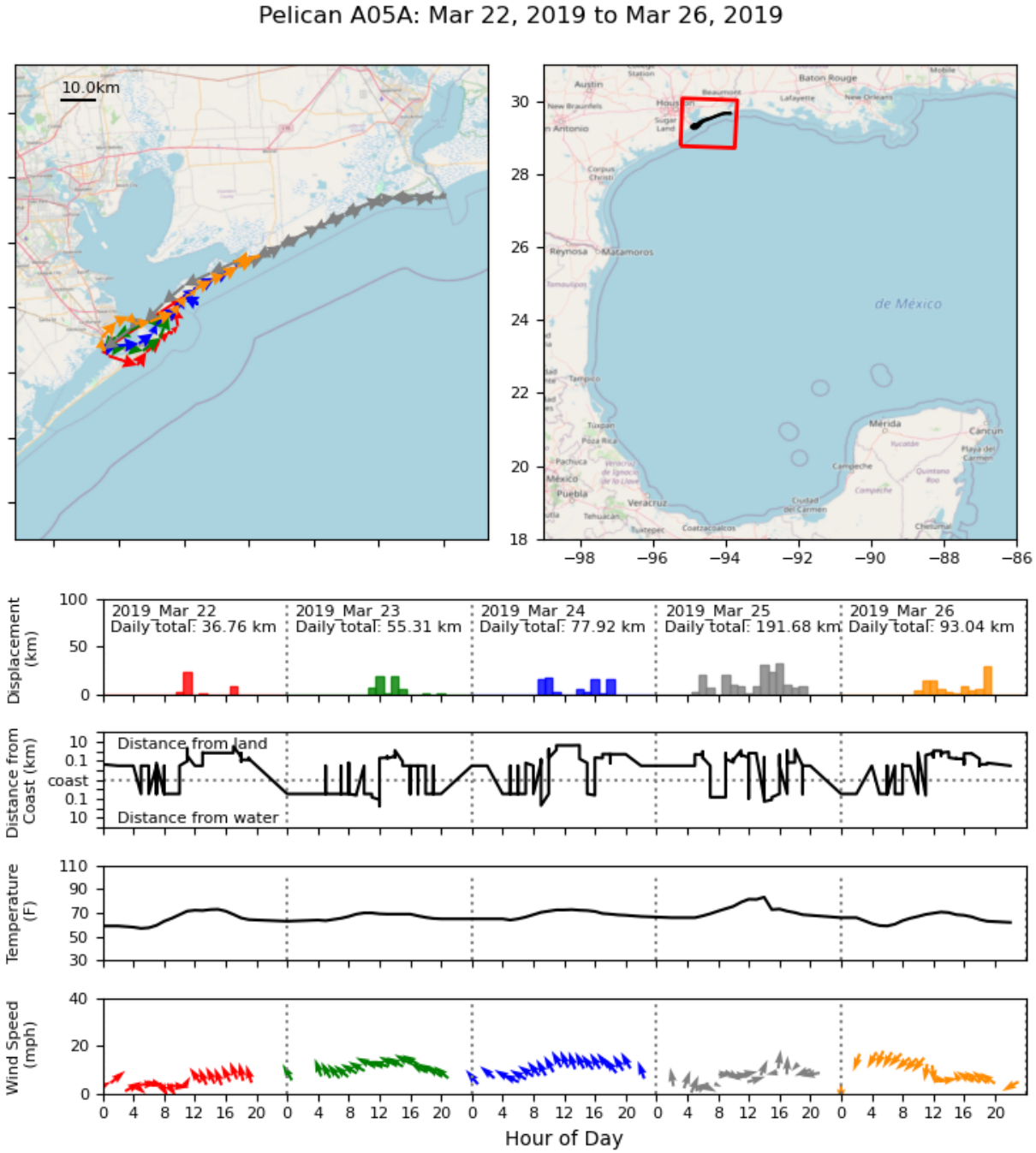

Figure 1079 - Maps and graphs showing movements of A05A between 2019-03-22 and 2019-03-25 inclusive.

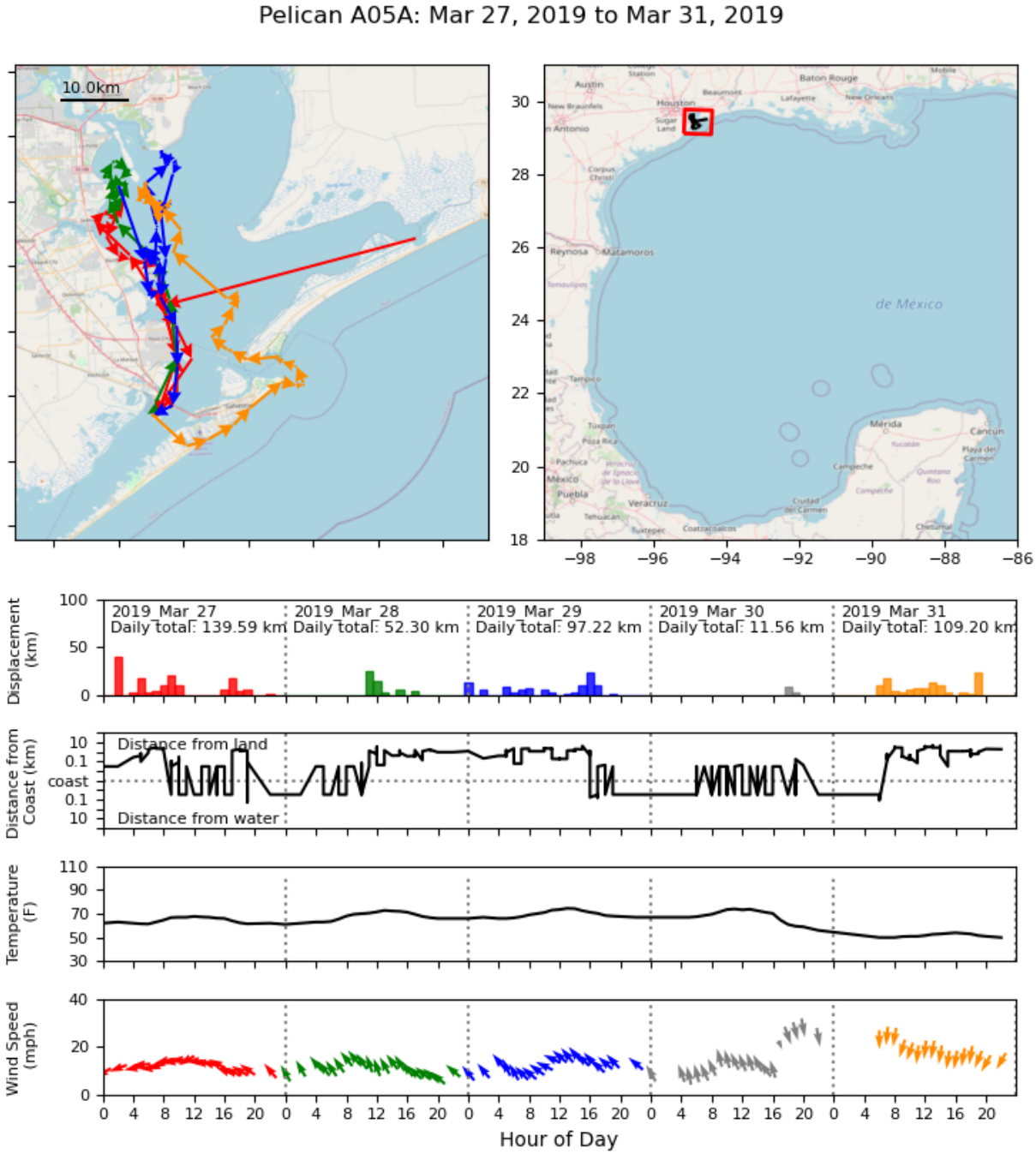

Figure 1080 - Maps and graphs showing movements of A05A between 2019-03-27 and 2019-03-30 inclusive.

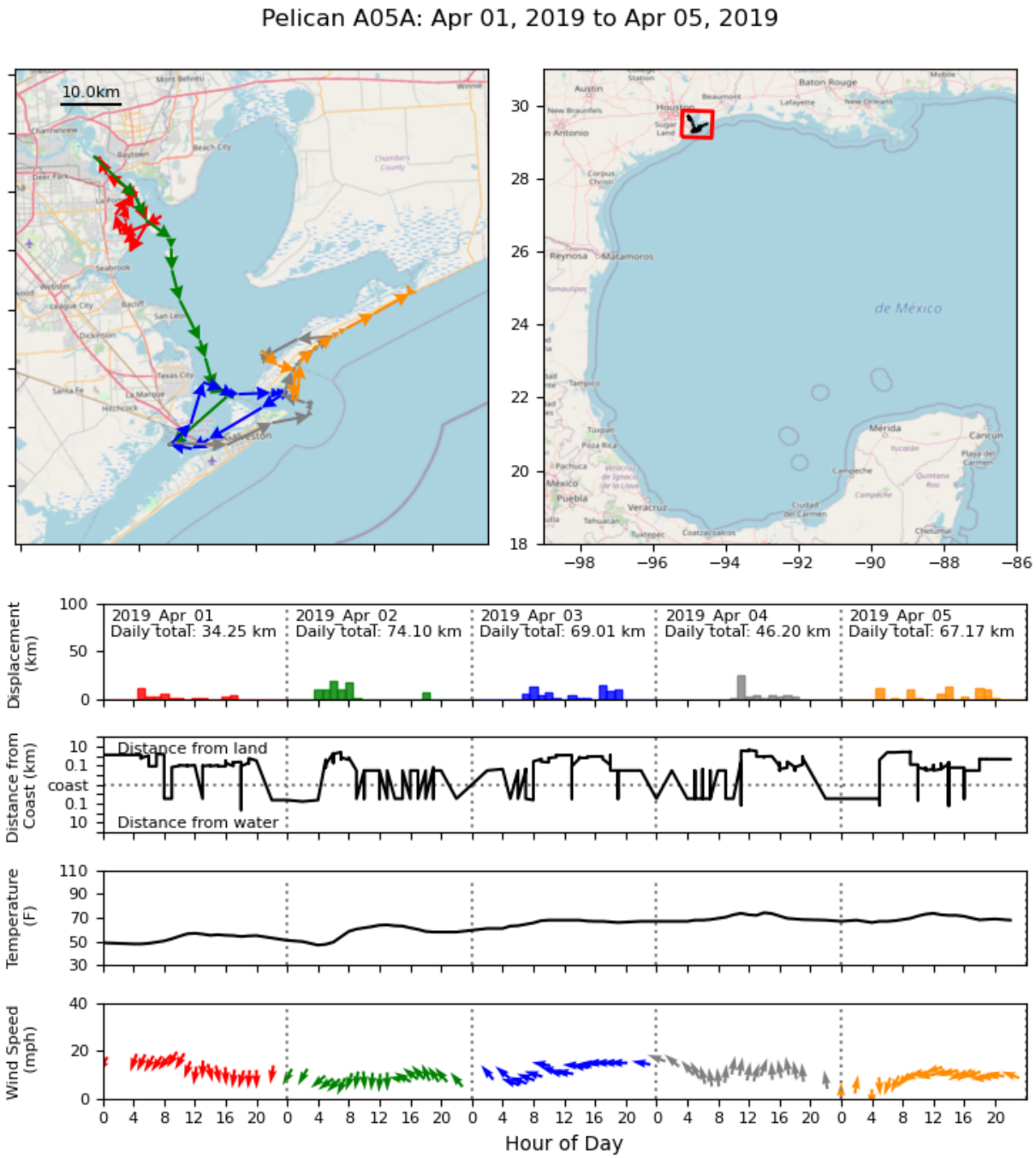

Figure 1081 - Maps and graphs showing movements of A05A between 2019-04-01 and 2019-04-04 inclusive.

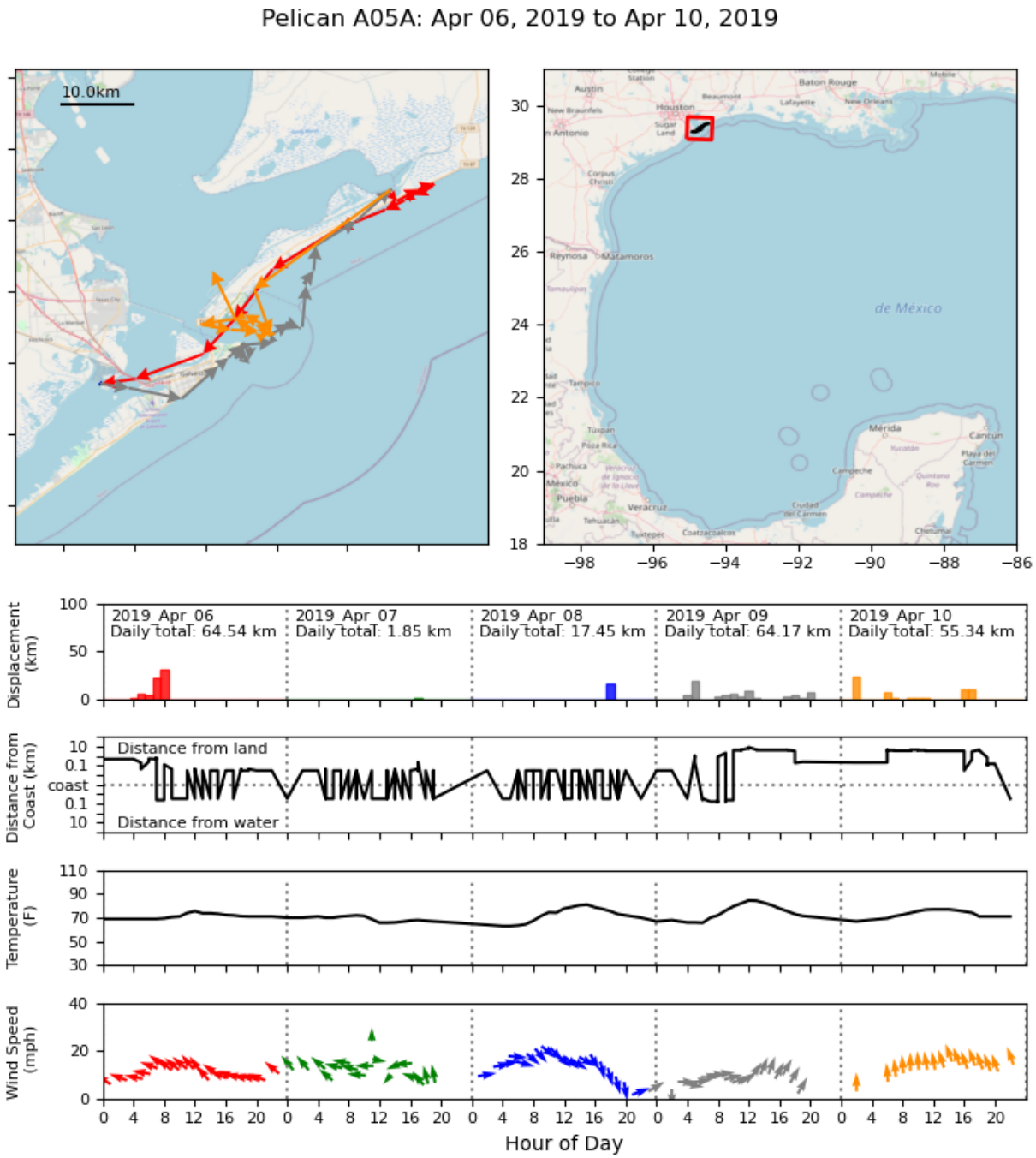

Figure 1082 - Maps and graphs showing movements of A05A between 2019-04-06 and 2019-04-09 inclusive.

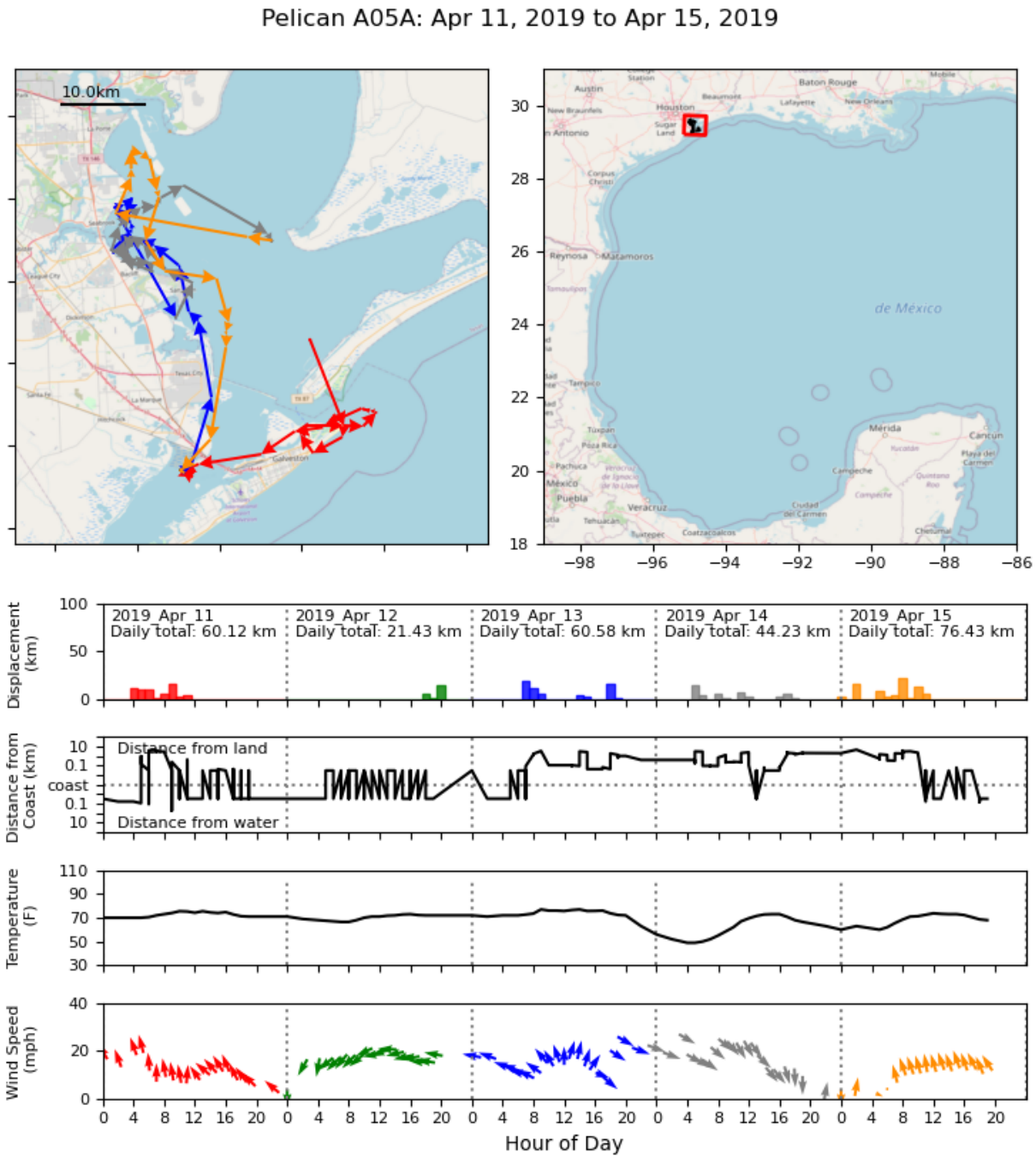

Figure 1083 - Maps and graphs showing movements of A05A between 2019-04-11 and 2019-04-14 inclusive.

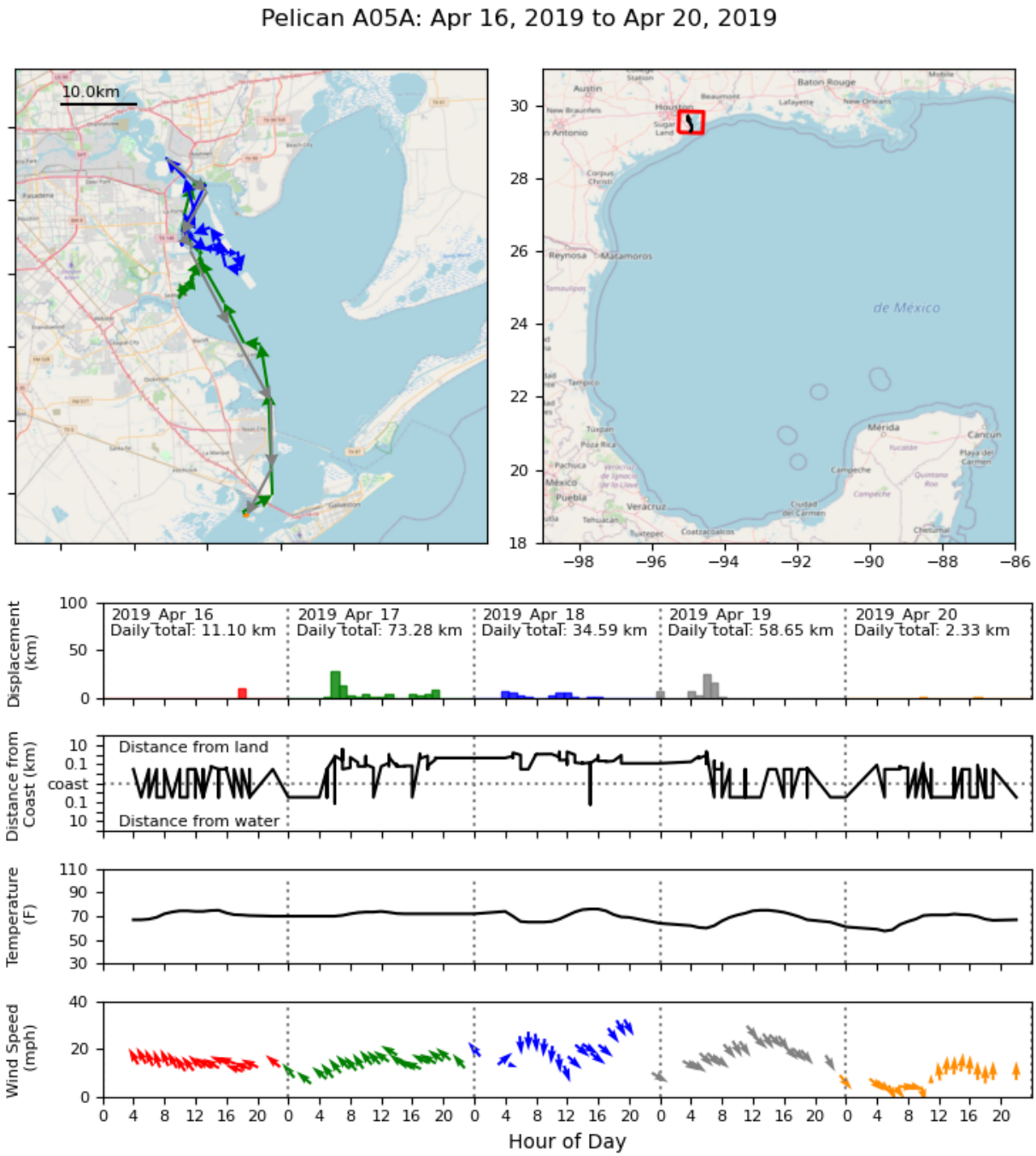

Figure 1084 - Maps and graphs showing movements of A05A between 2019-04-16 and 2019-04-19 inclusive.

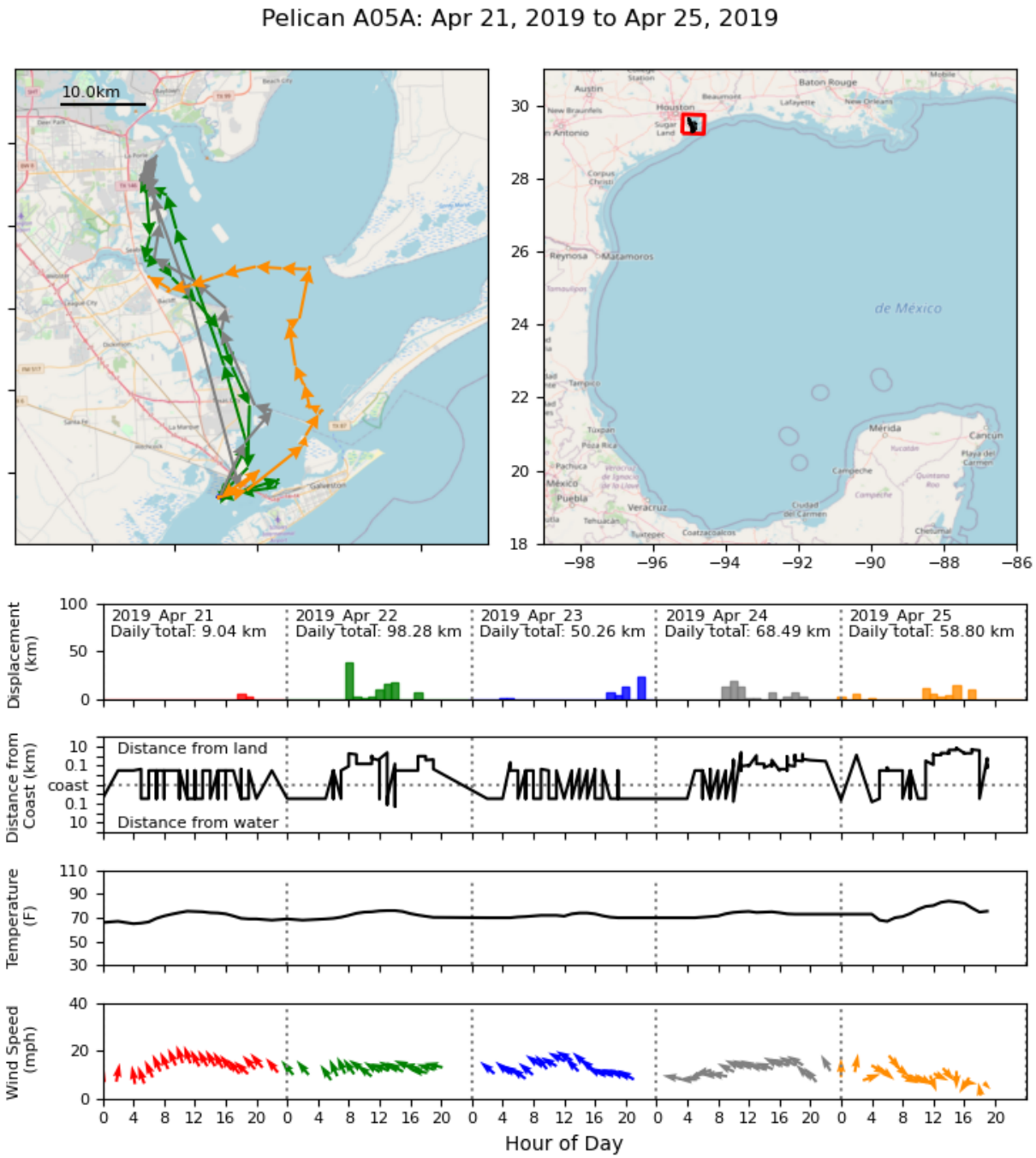

Figure 1085 - Maps and graphs showing movements of A05A between 2019-04-21 and 2019-04-24 inclusive.

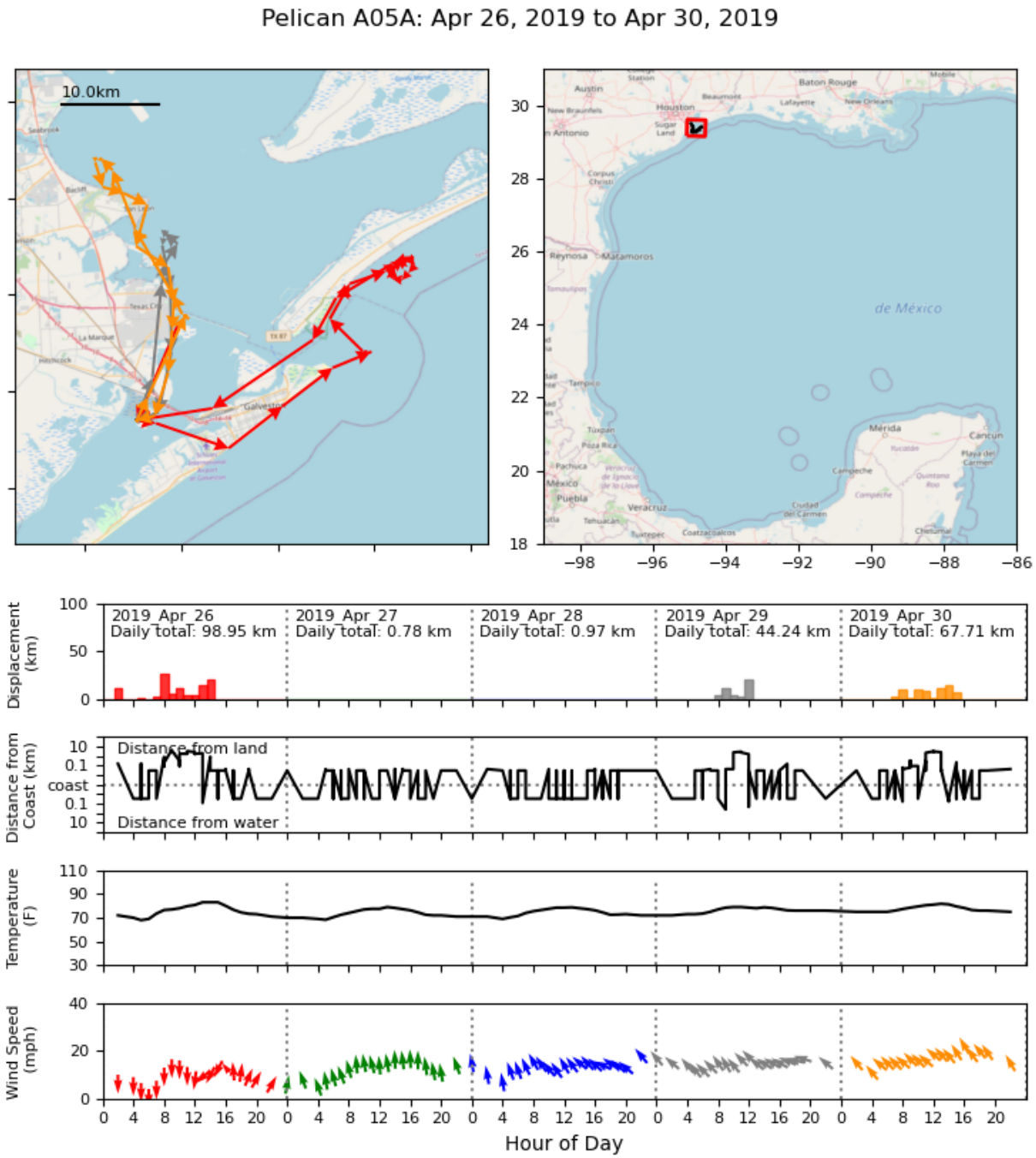

Figure 1086 - Maps and graphs showing movements of A05A between 2019-04-26 and 2019-04-29 inclusive.

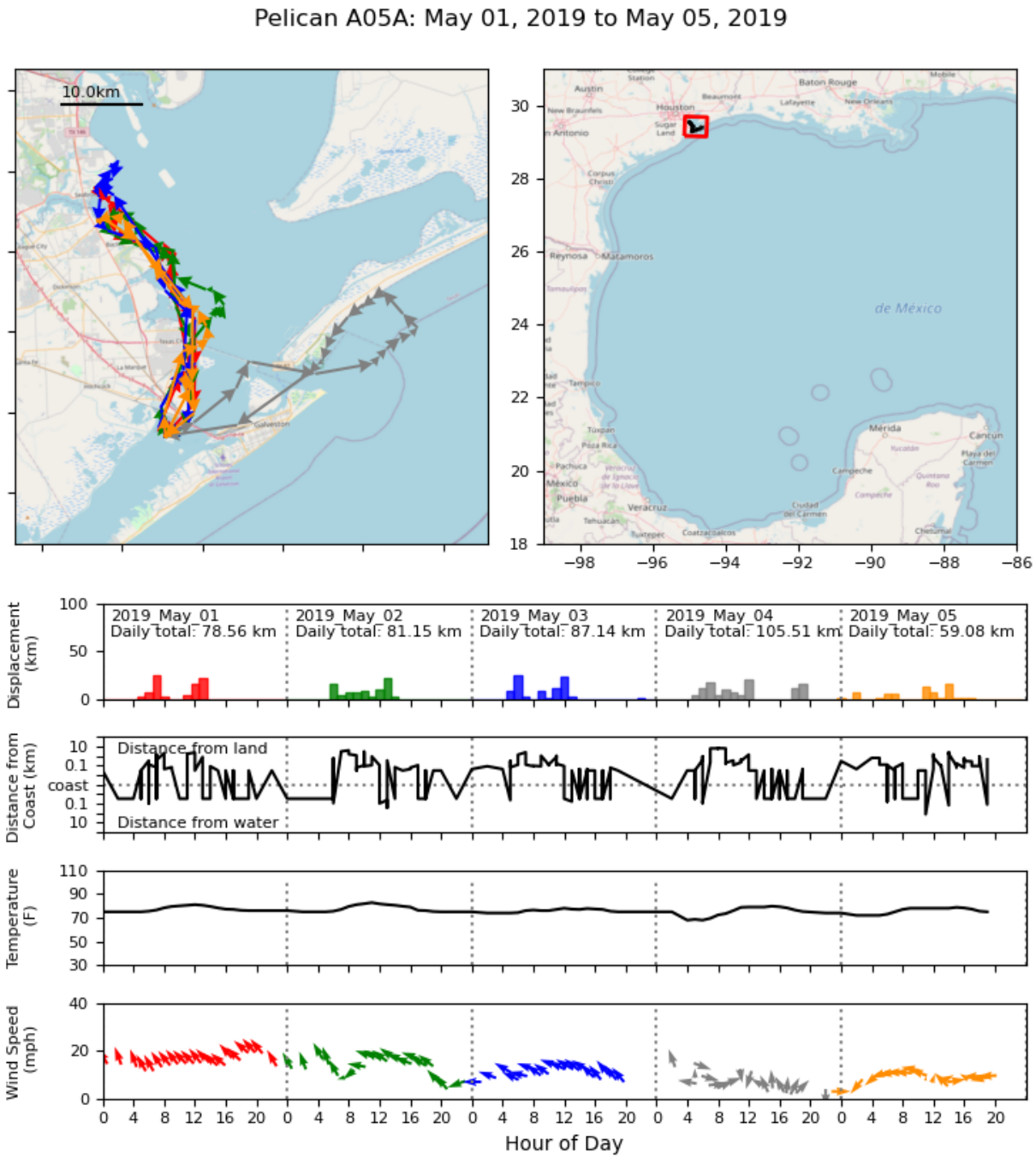

Figure 1087 - Maps and graphs showing movements of A05A between 2019-05-01 and 2019-05-04 inclusive.

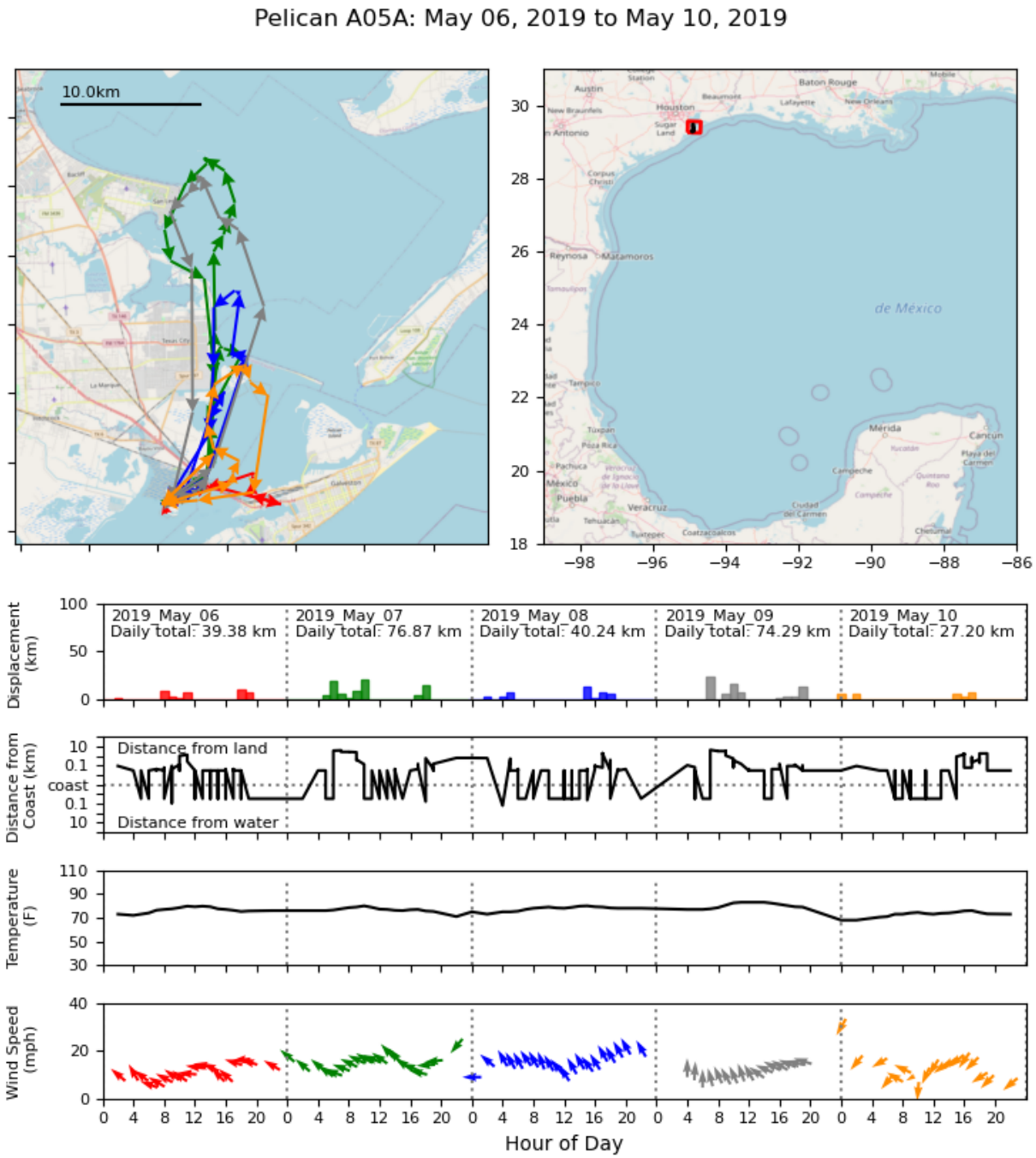

Figure 1088 - Maps and graphs showing movements of A05A between 2019-05-06 and 2019-05-09 inclusive.

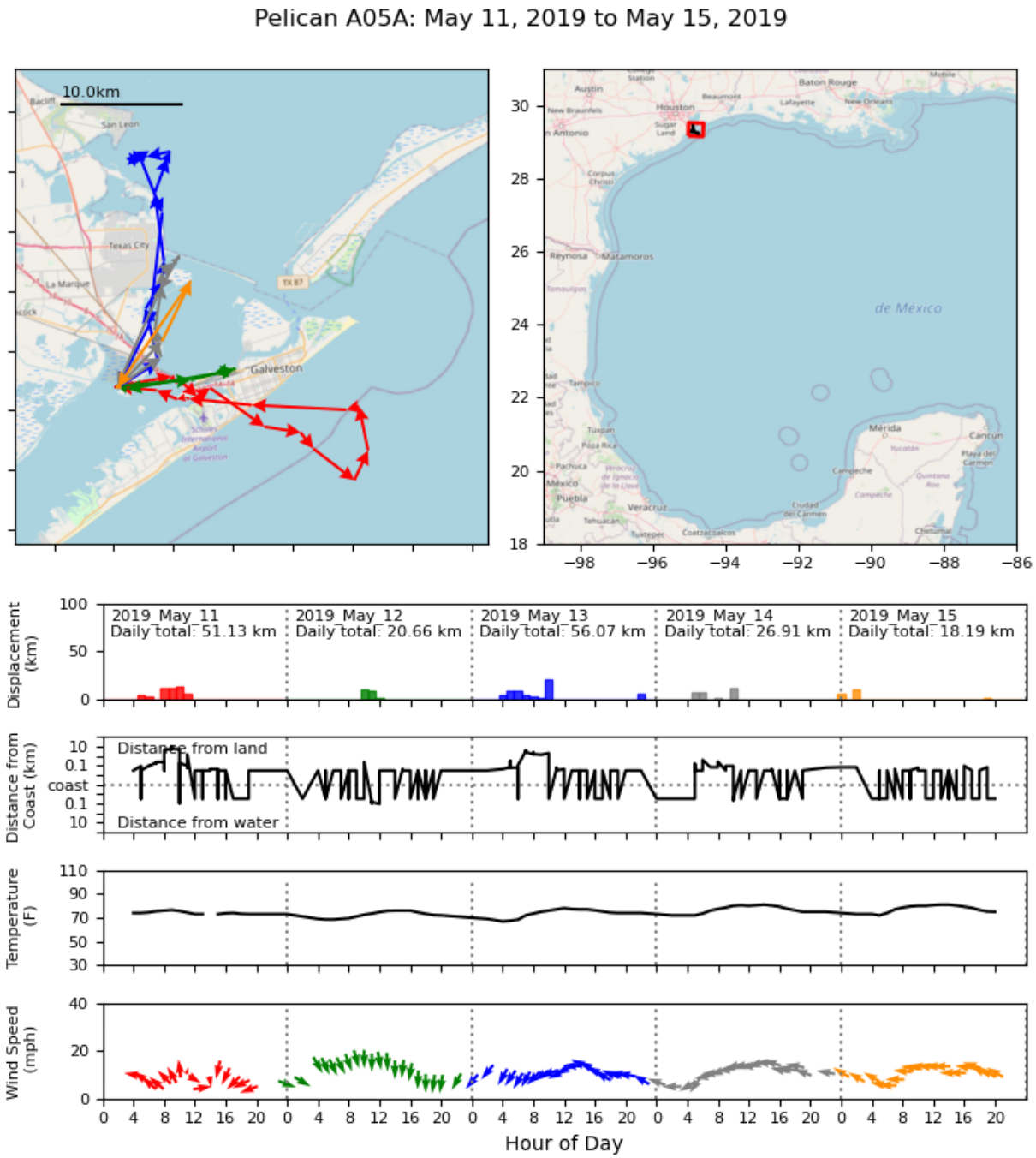

Figure 1089 - Maps and graphs showing movements of A05A between 2019-05-11 and 2019-05-14 inclusive.

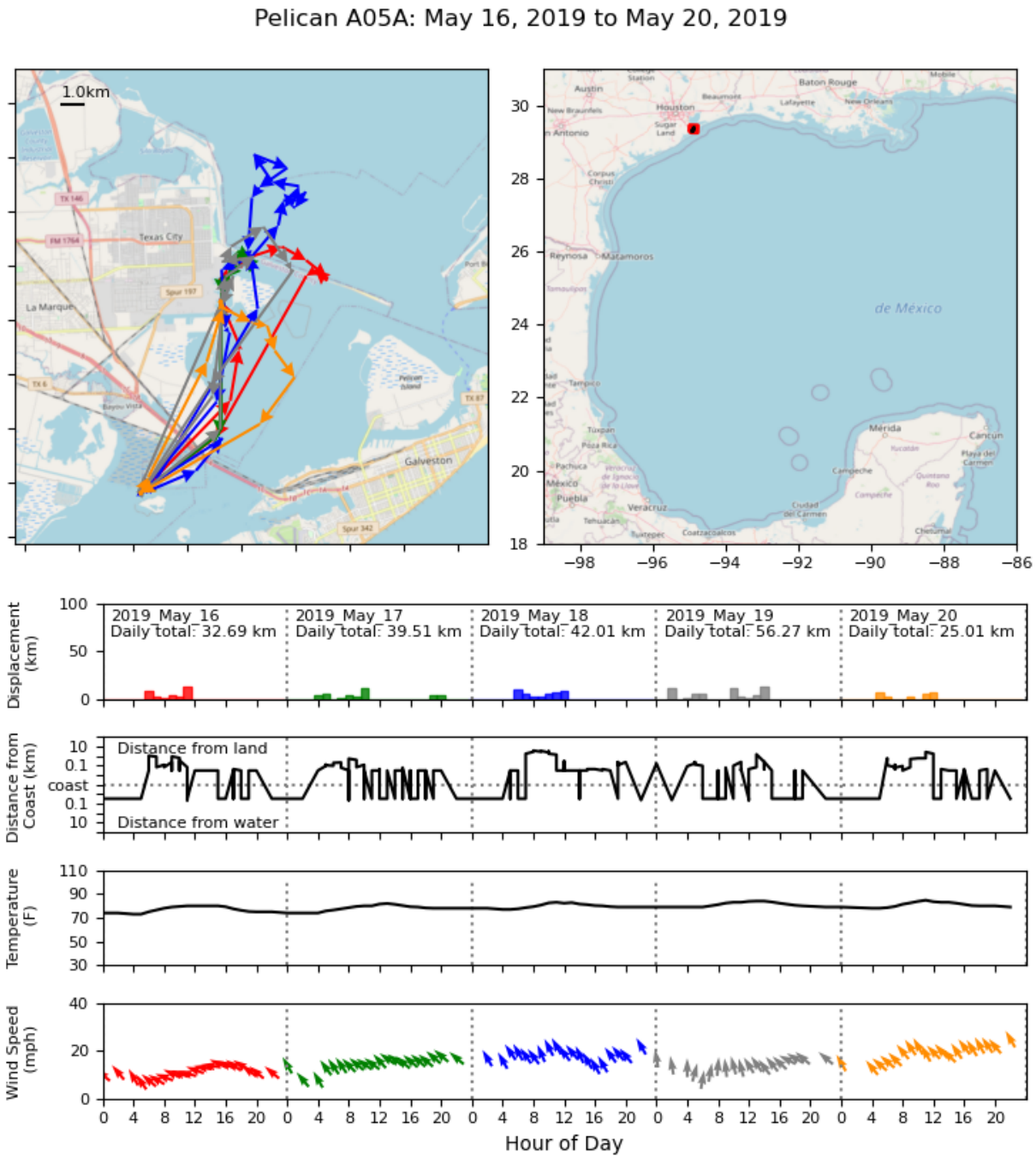

Figure 1090 - Maps and graphs showing movements of A05A between 2019-05-16 and 2019-05-19 inclusive.

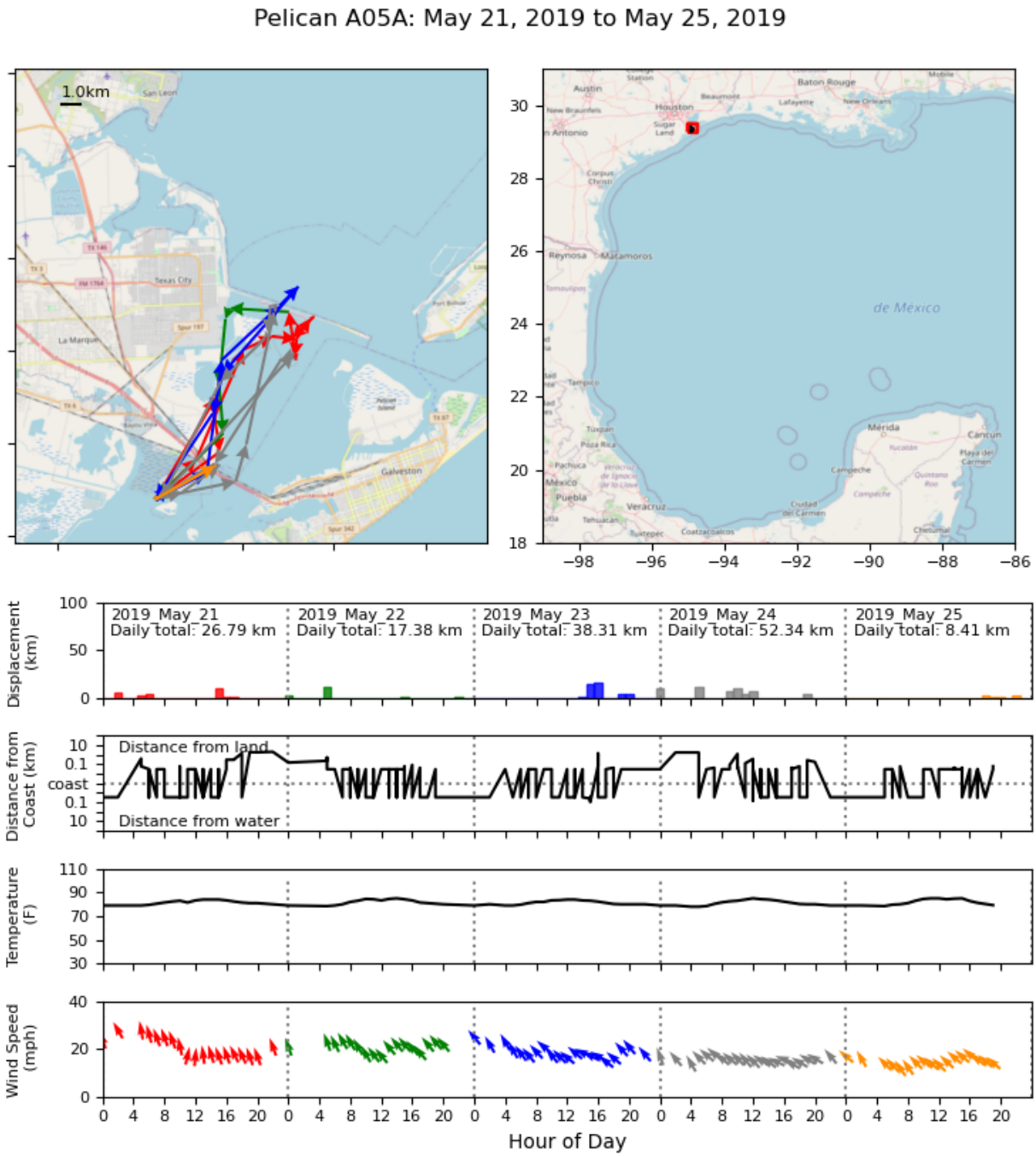

Figure 1091 - Maps and graphs showing movements of A05A between 2019-05-21 and 2019-05-24 inclusive.

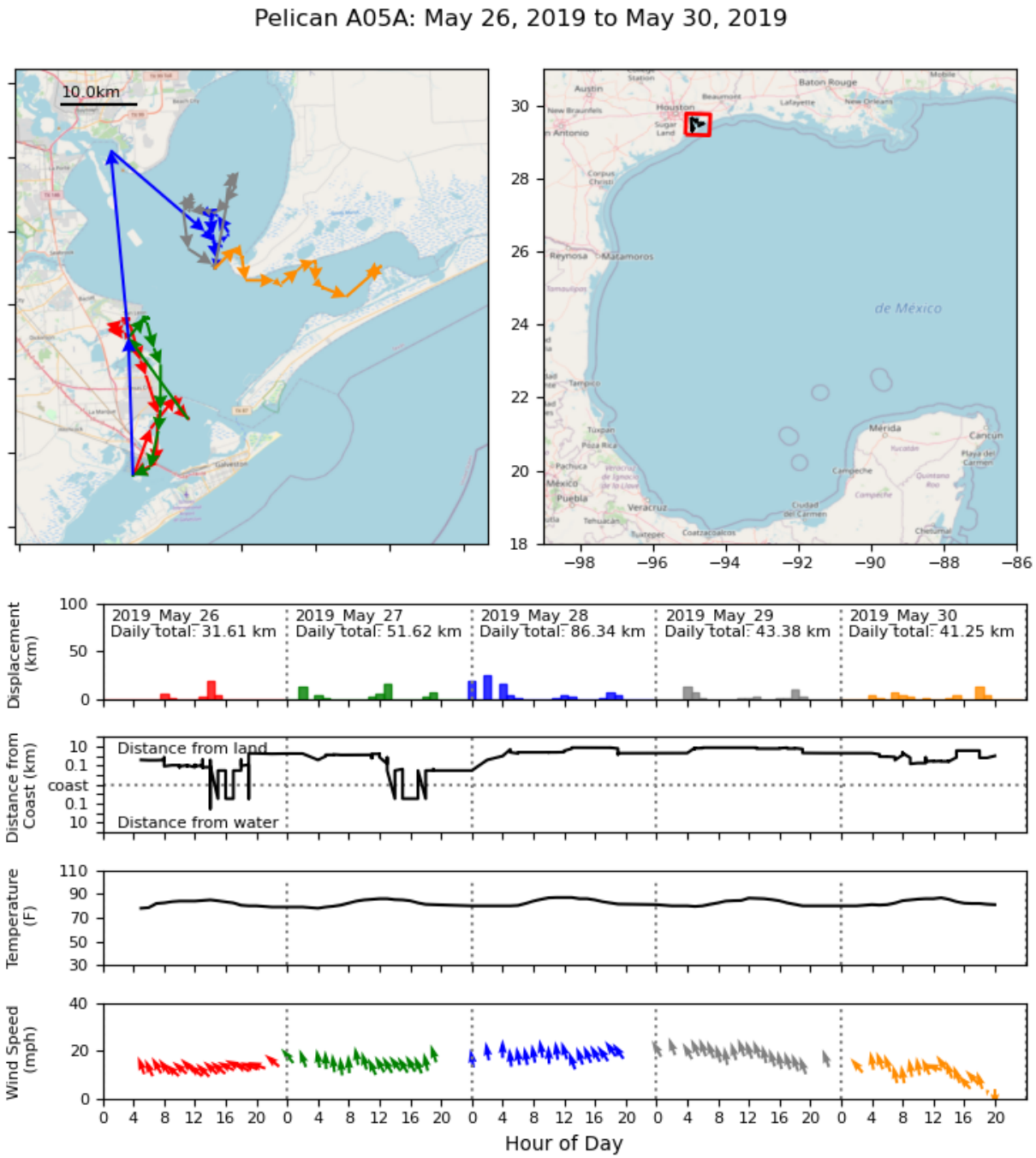

Figure 1092 - Maps and graphs showing movements of A05A between 2019-05-26 and 2019-05-29 inclusive.

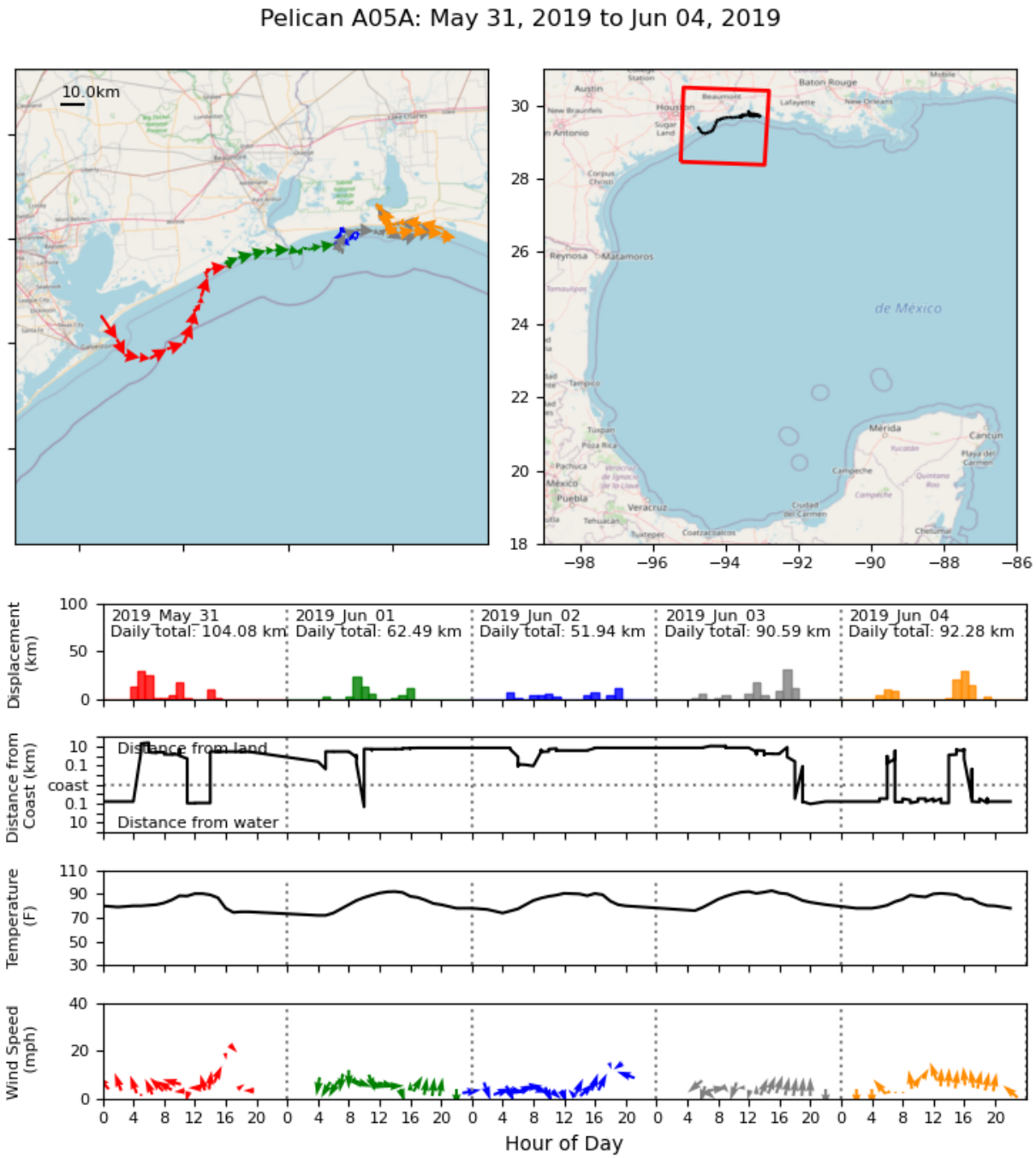

Figure 1093 - Maps and graphs showing movements of A05A between 2019-05-31 and 2019-06-03 inclusive.

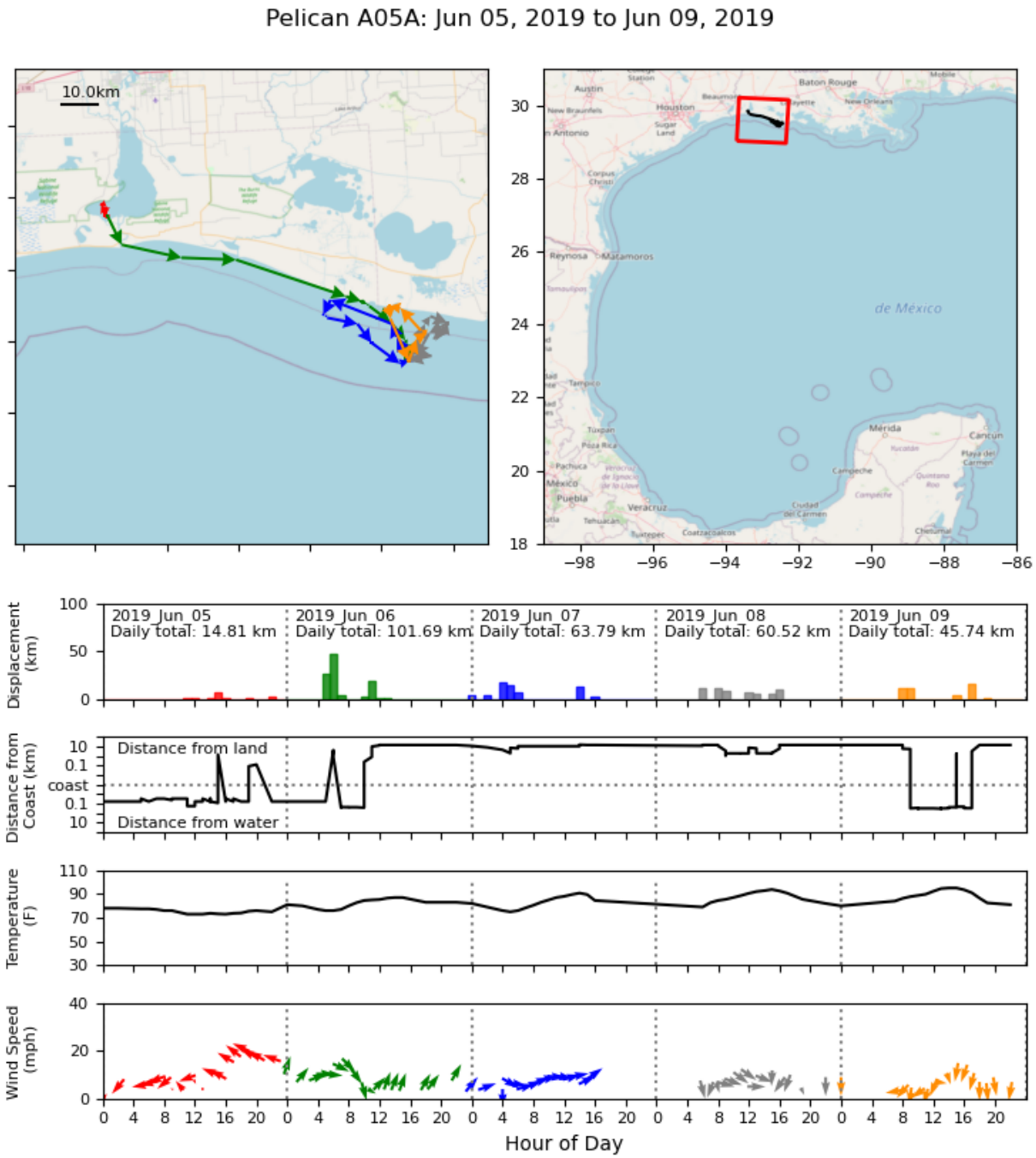

Figure 1094 - Maps and graphs showing movements of A05A between 2019-06-05 and 2019-06-08 inclusive.

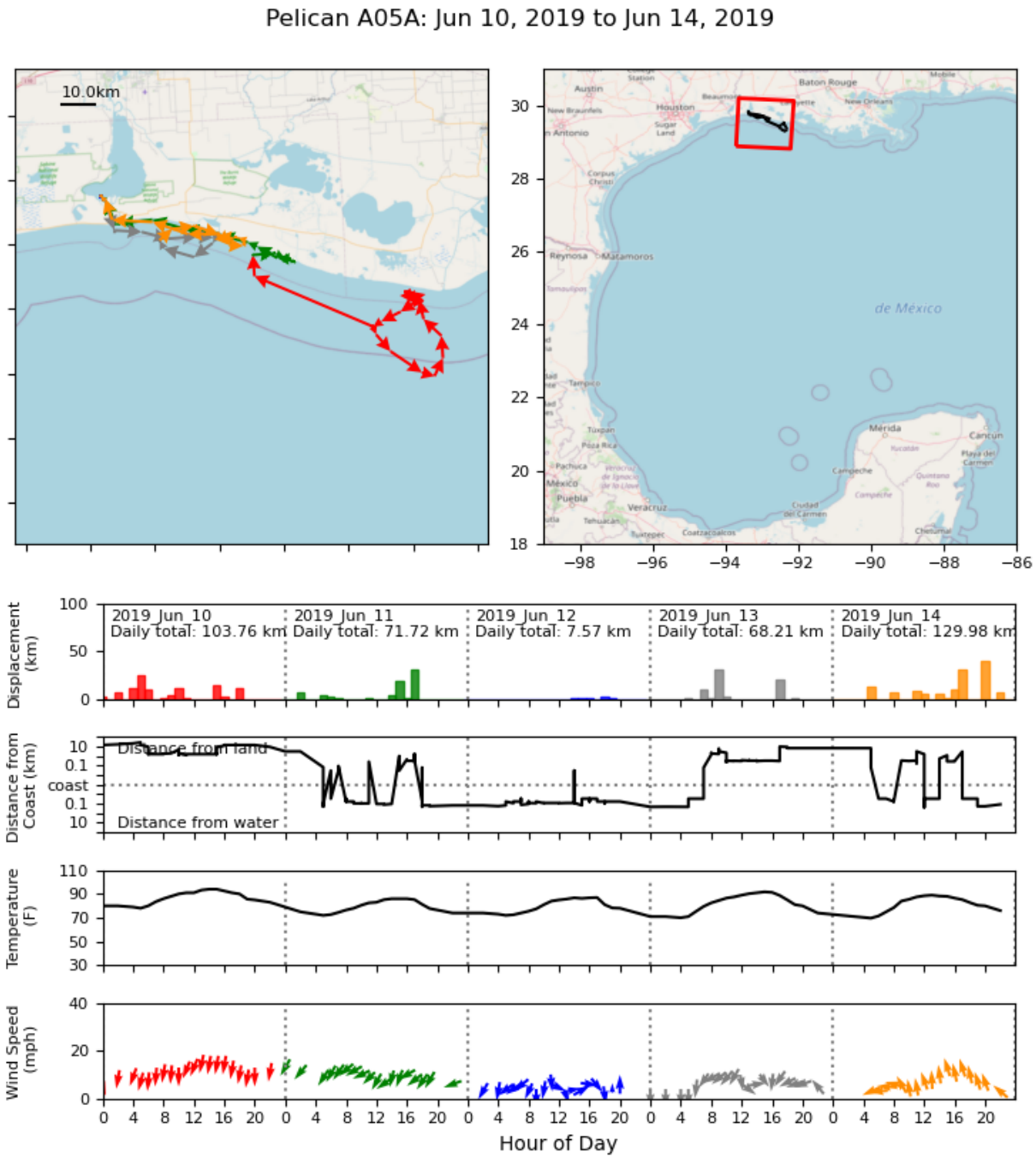

Figure 1095 - Maps and graphs showing movements of A05A between 2019-06-10 and 2019-06-13 inclusive.

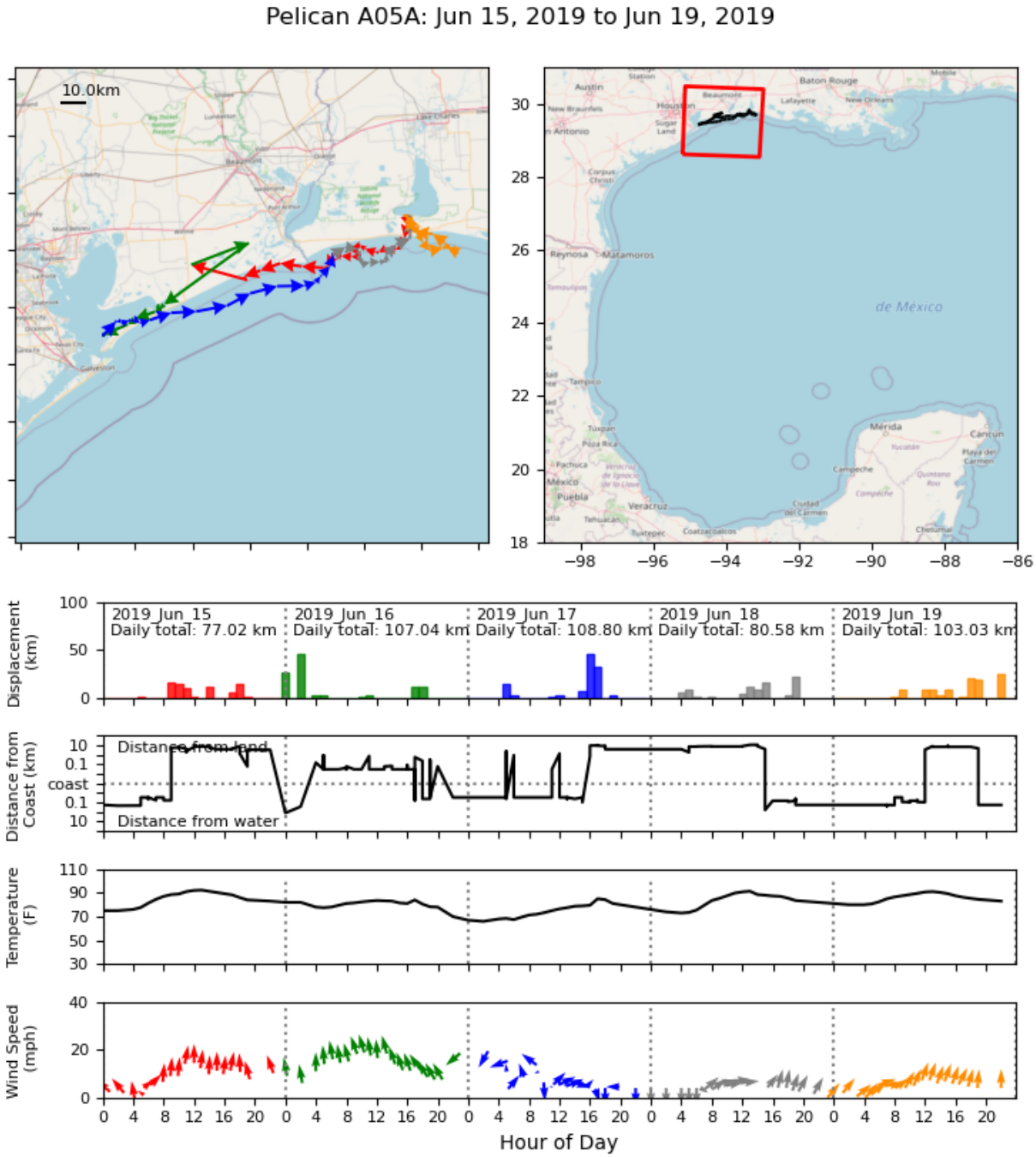

Figure 1096 - Maps and graphs showing movements of A05A between 2019-06-15 and 2019-06-18 inclusive.

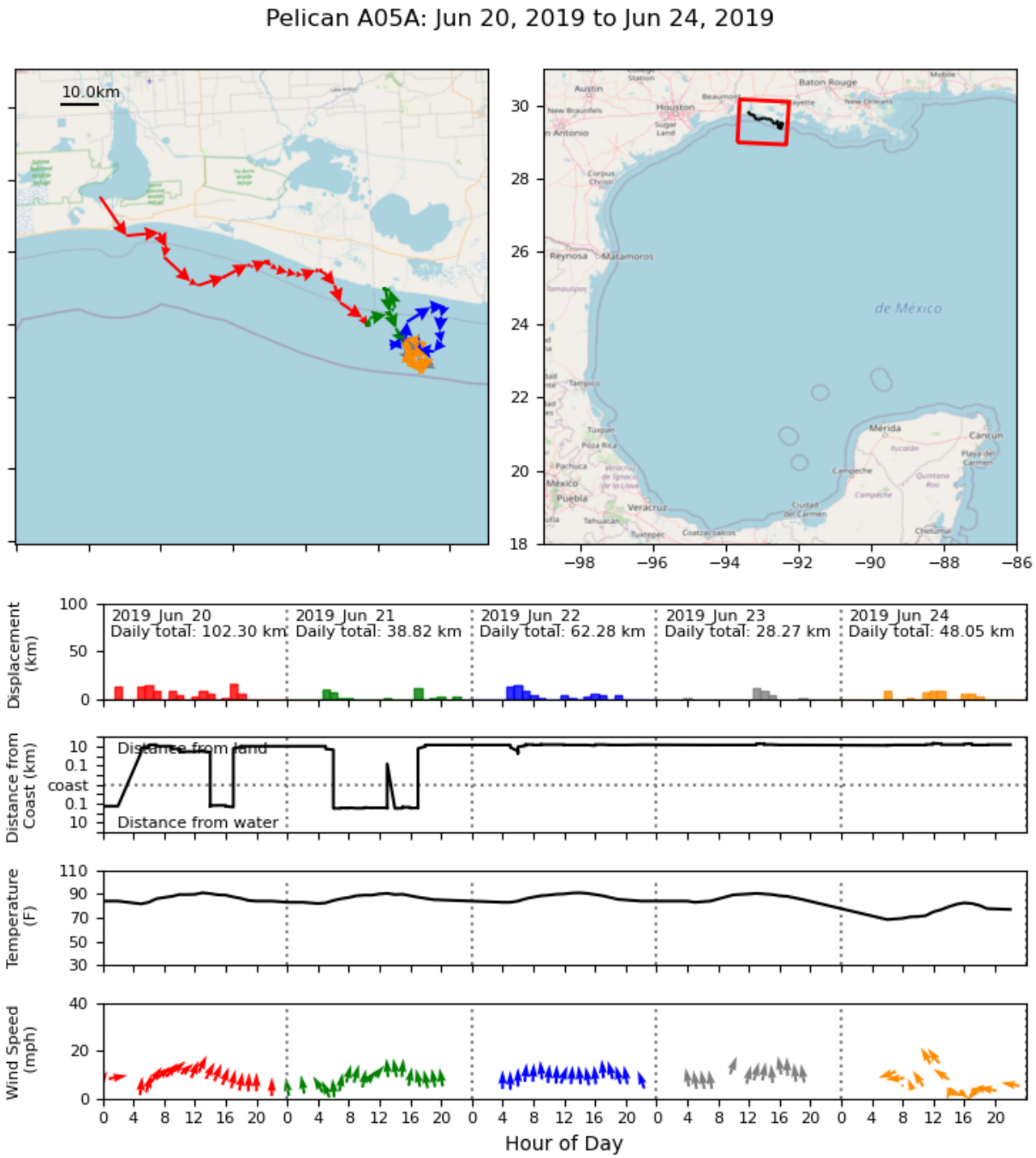

Figure 1097 - Maps and graphs showing movements of A05A between 2019-06-20 and 2019-06-23 inclusive.

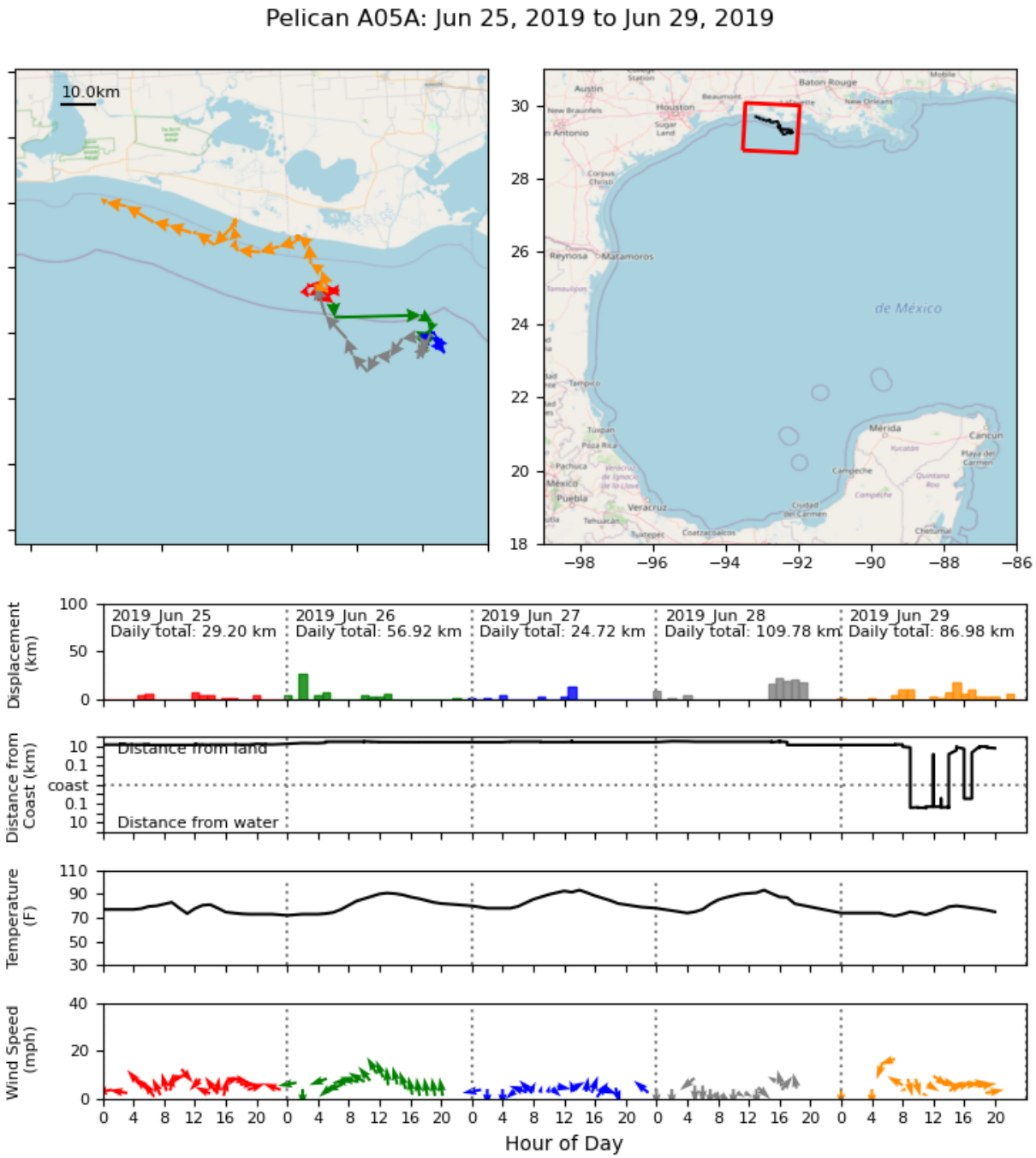

Figure 1098 - Maps and graphs showing movements of A05A between 2019-06-25 and 2019-06-28 inclusive.

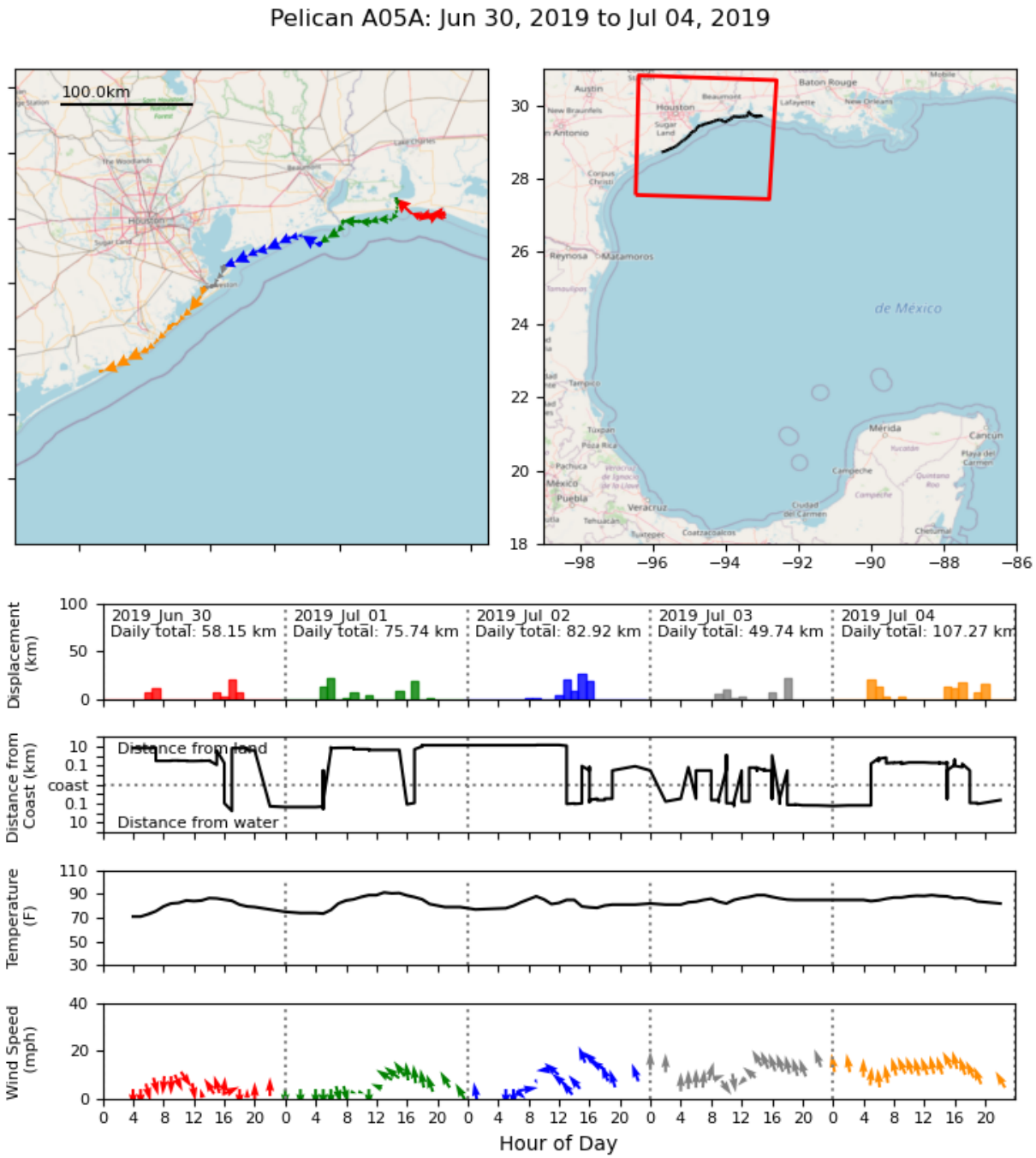

Figure 1099 - Maps and graphs showing movements of A05A between 2019-06-30 and 2019-07-03 inclusive.

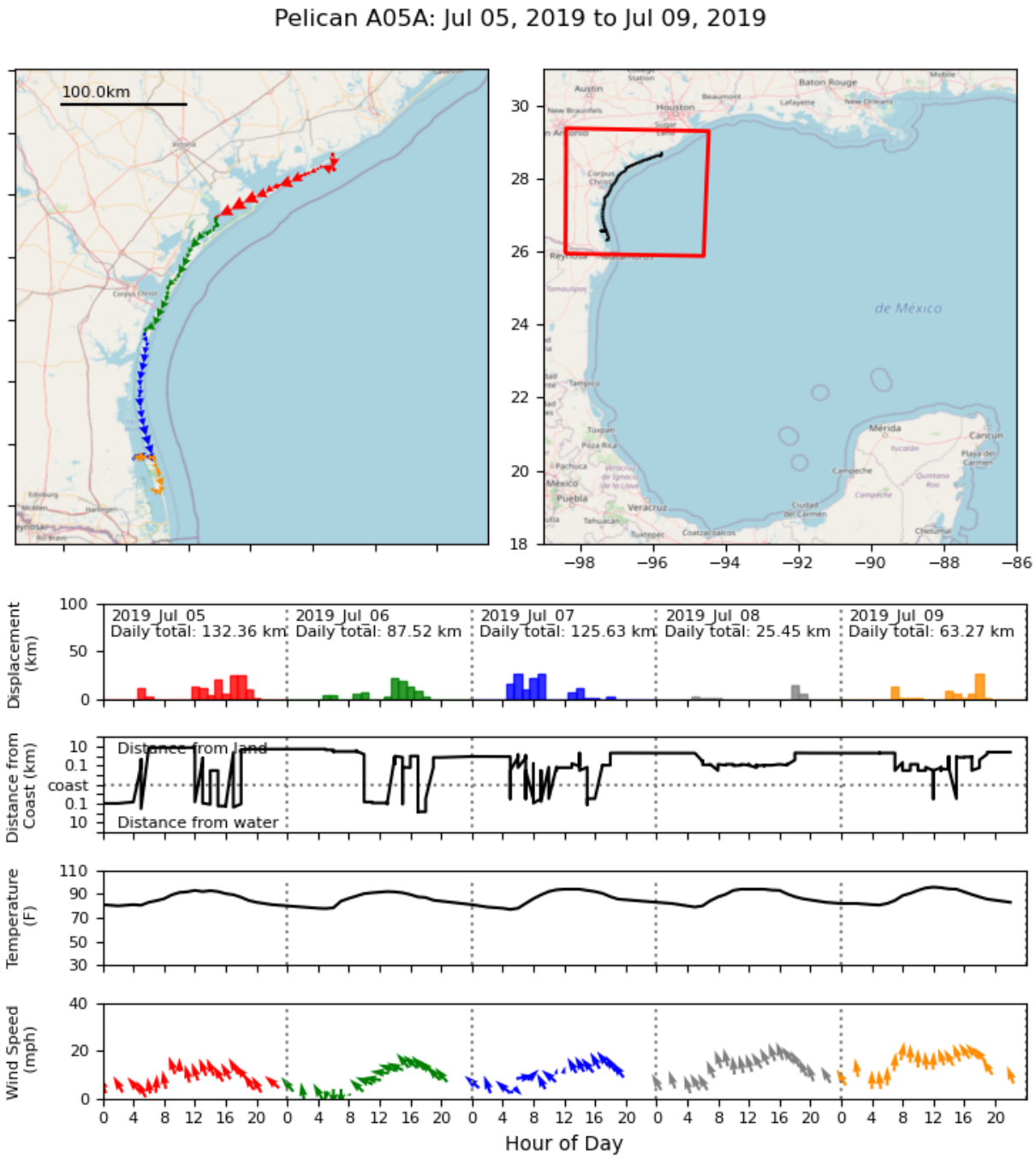

Figure 1100 - Maps and graphs showing movements of A05A between 2019-07-05 and 2019-07-08 inclusive.

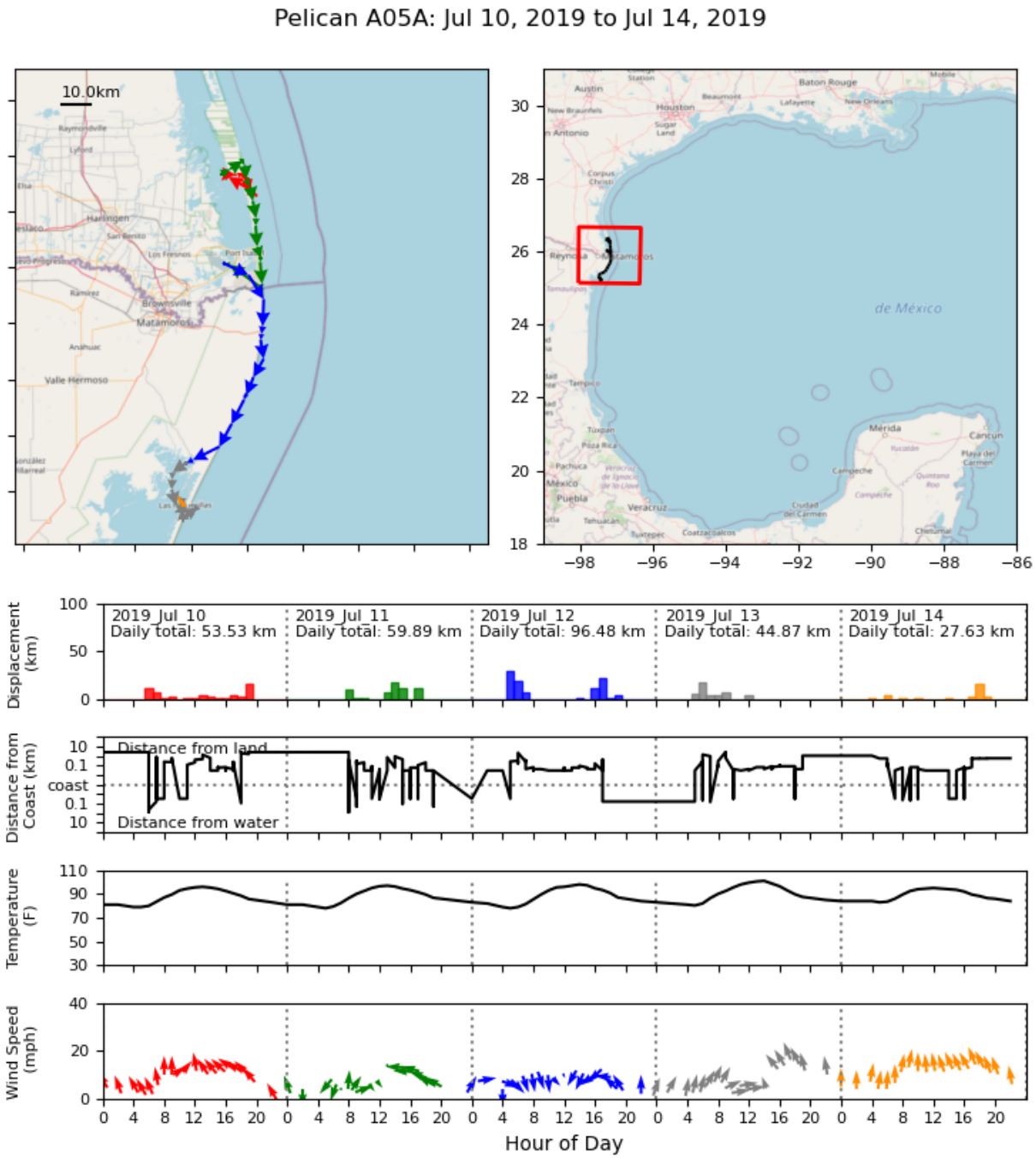

Figure 1101 - Maps and graphs showing movements of A05A between 2019-07-10 and 2019-07-13 inclusive.

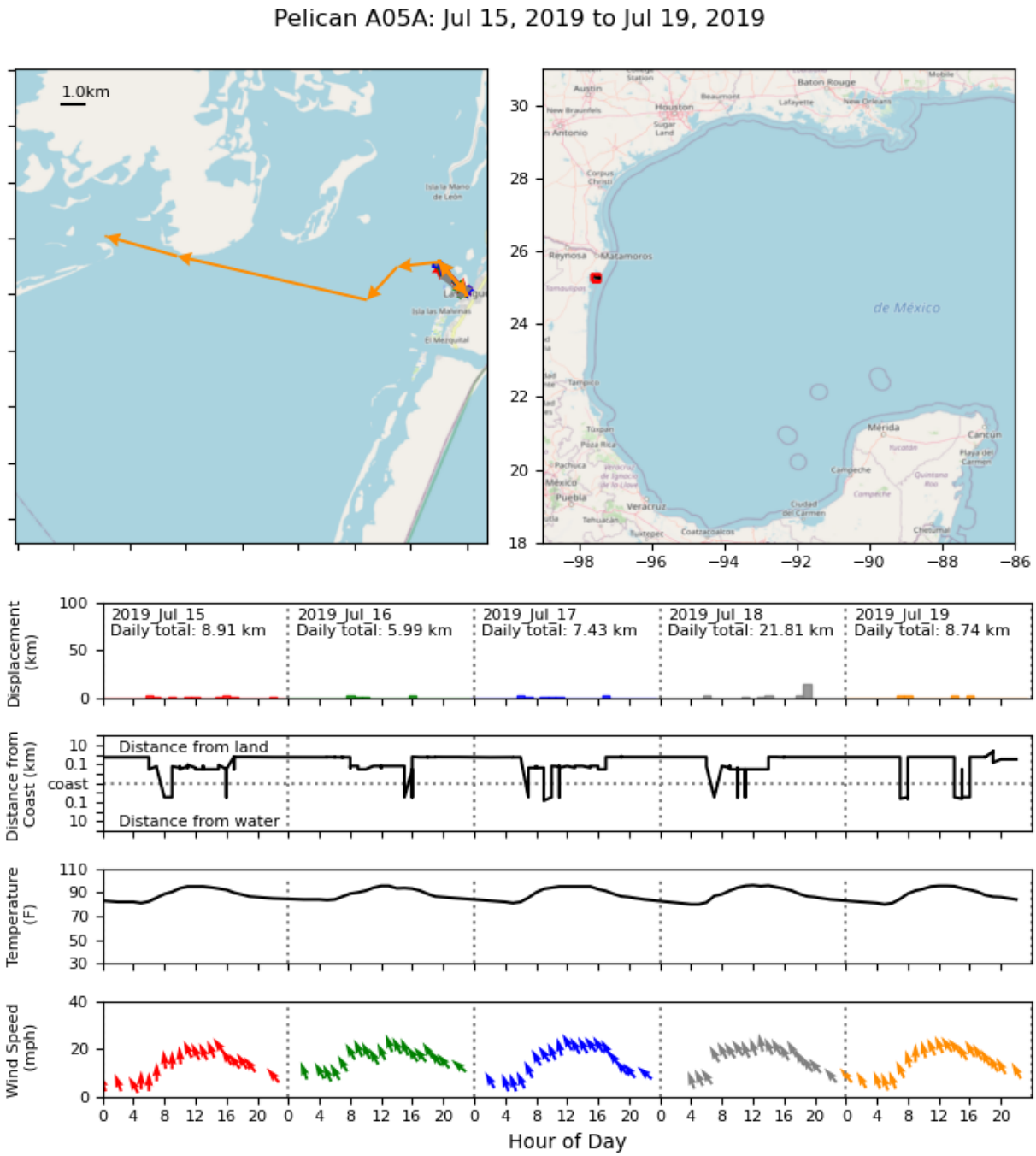

Figure 1102 - Maps and graphs showing movements of A05A between 2019-07-15 and 2019-07-18 inclusive.

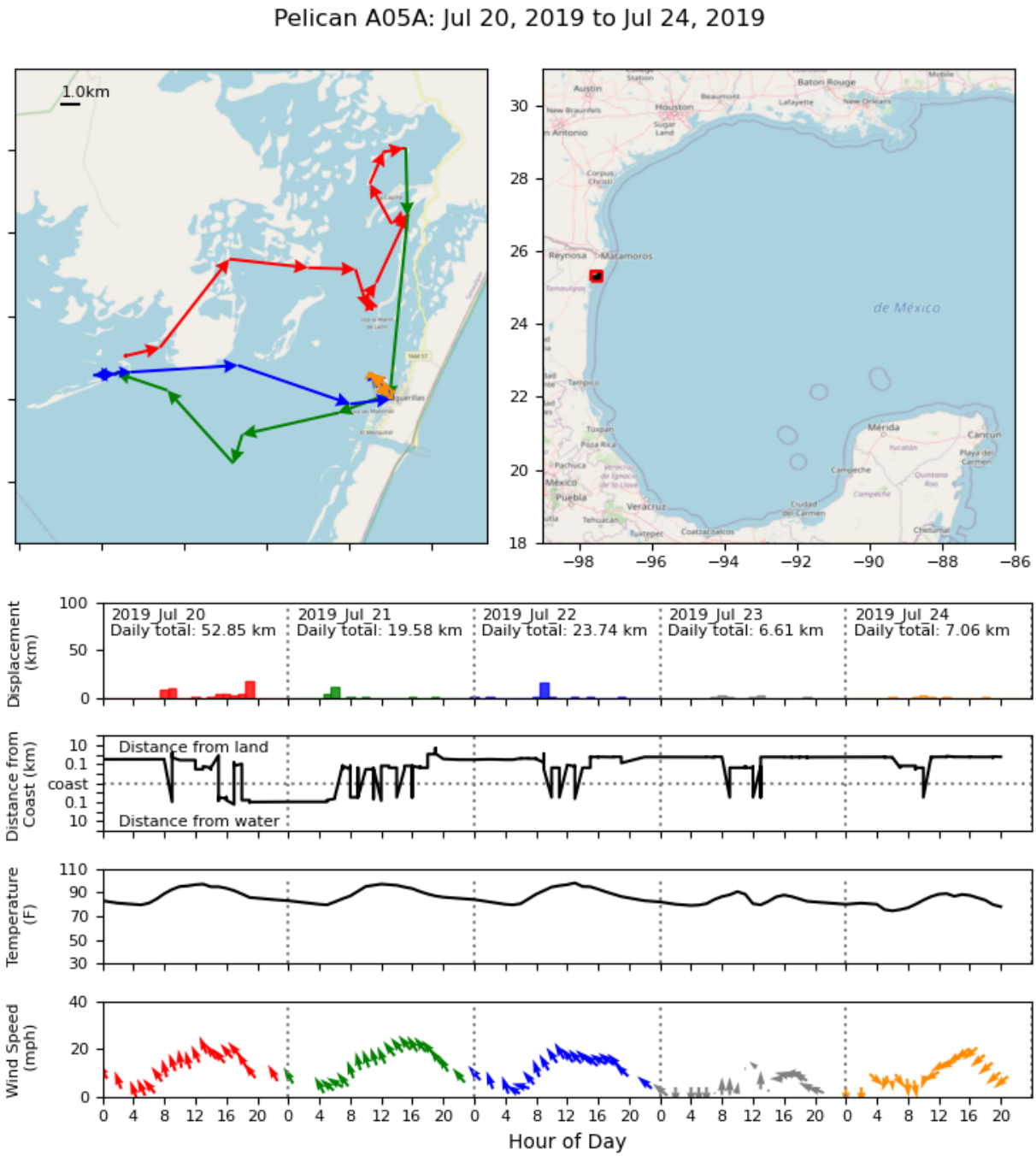

Figure 1103 - Maps and graphs showing movements of A05A between 2019-07-20 and 2019-07-23 inclusive.

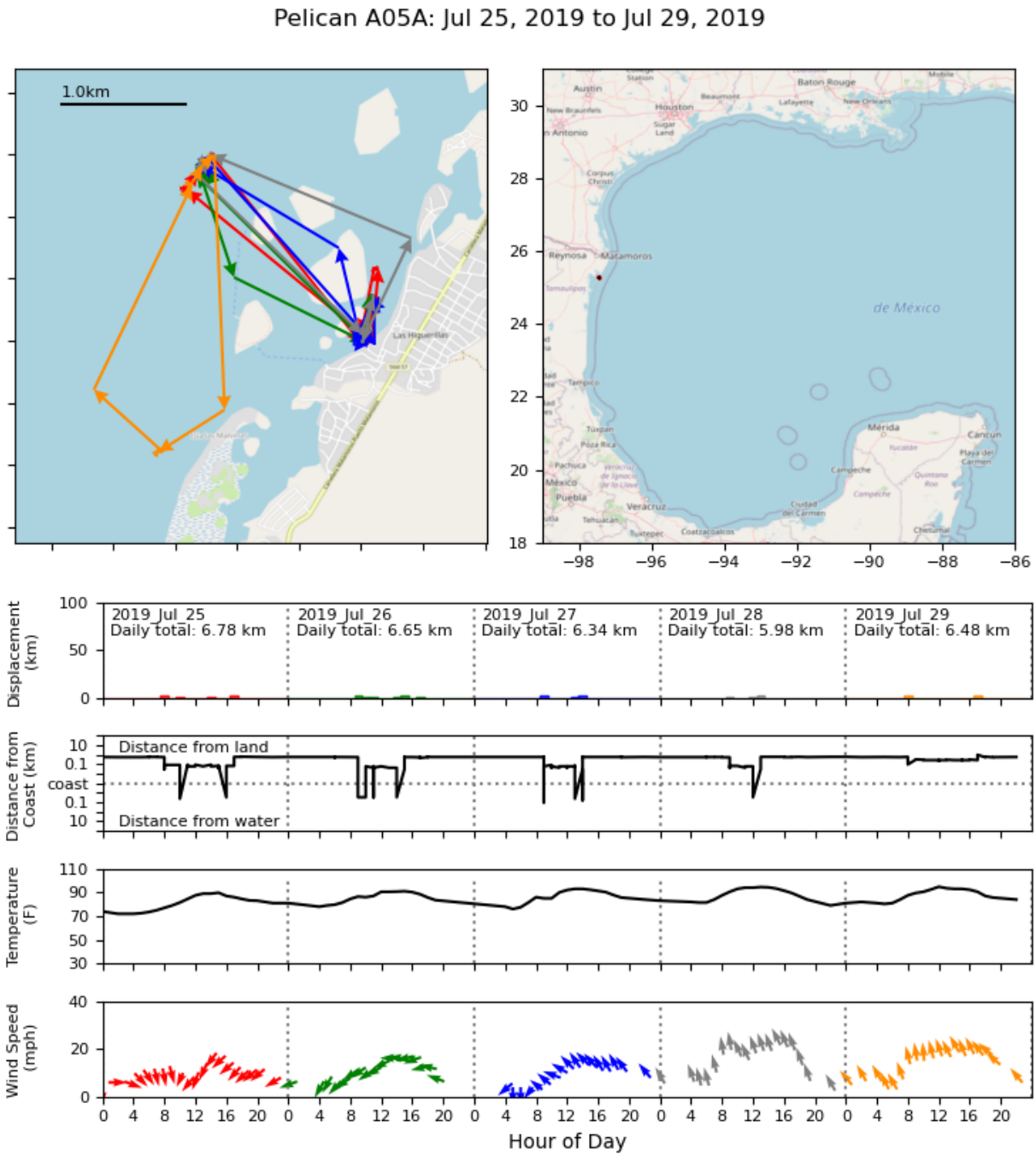

Figure 1104 - Maps and graphs showing movements of A05A between 2019-07-25 and 2019-07-28 inclusive.

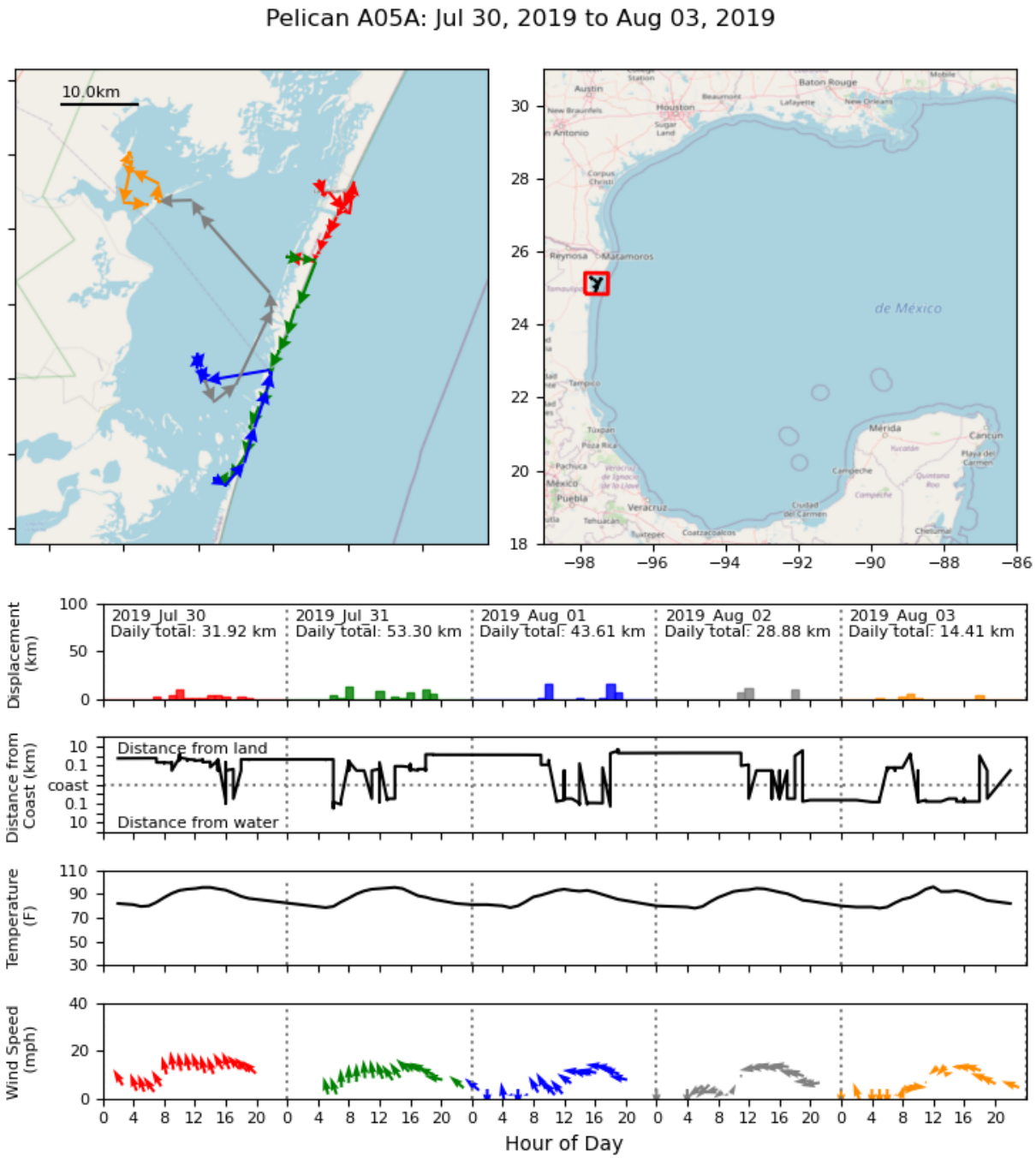

Figure 1105 - Maps and graphs showing movements of A05A between 2019-07-30 and 2019-08-02 inclusive.

Pelican A35A - Active from January 04, 2019 to January 22, 2019

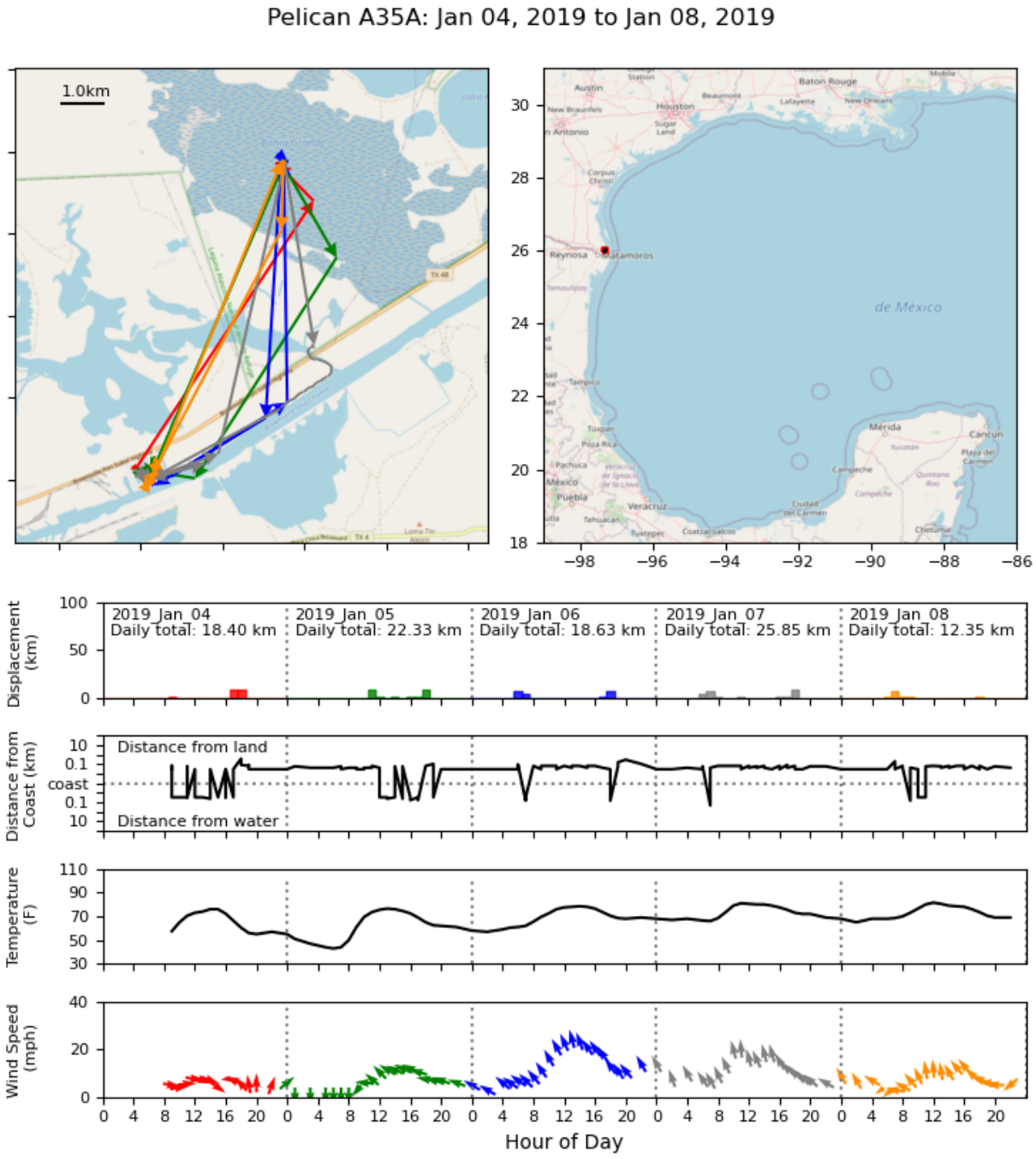

Figure 1106 - Maps and graphs showing movements of A35A between 2019-01-04 and 2019-01-07 inclusive.

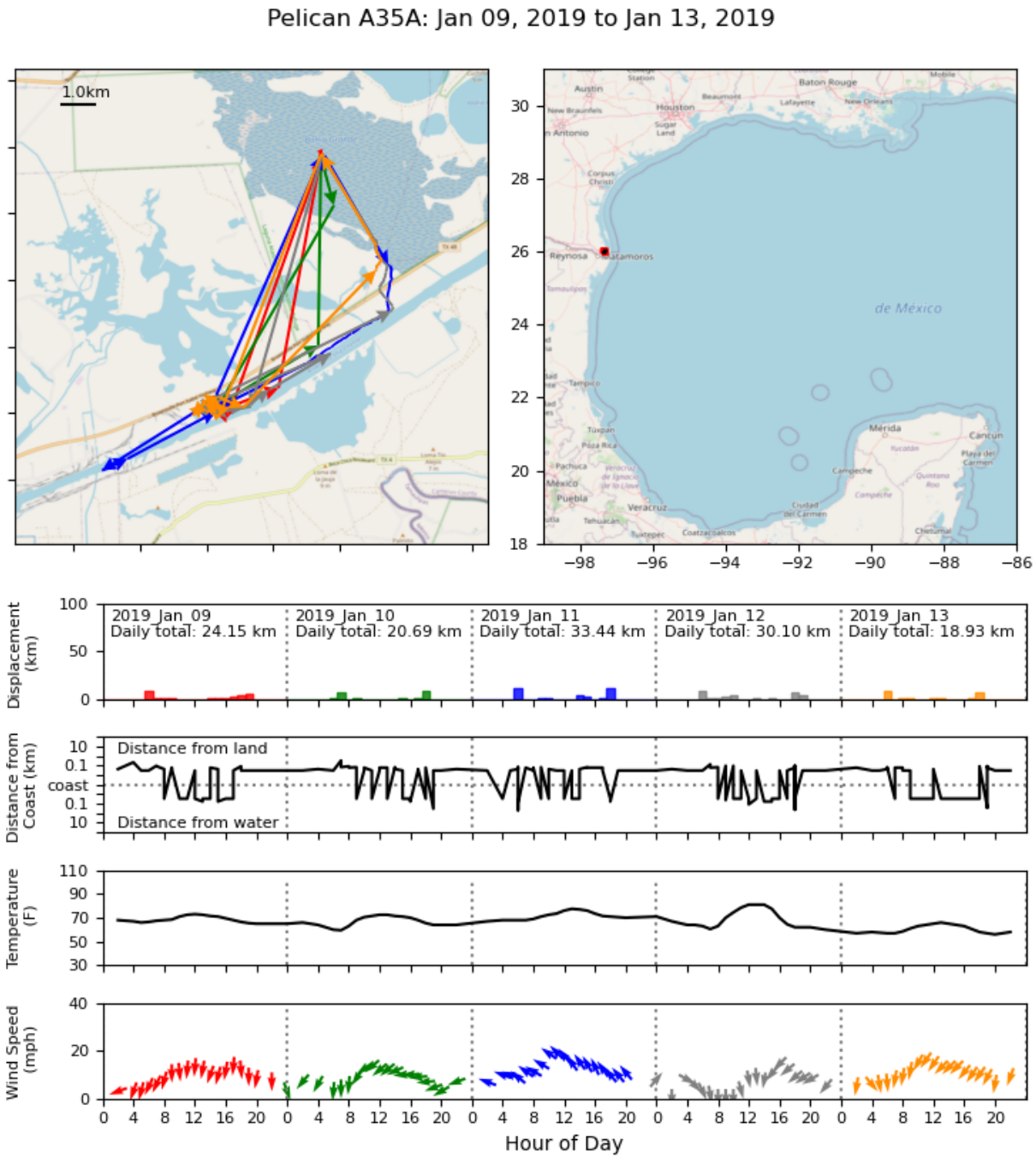

Figure 1107 - Maps and graphs showing movements of A35A between 2019-01-09 and 2019-01-12 inclusive.

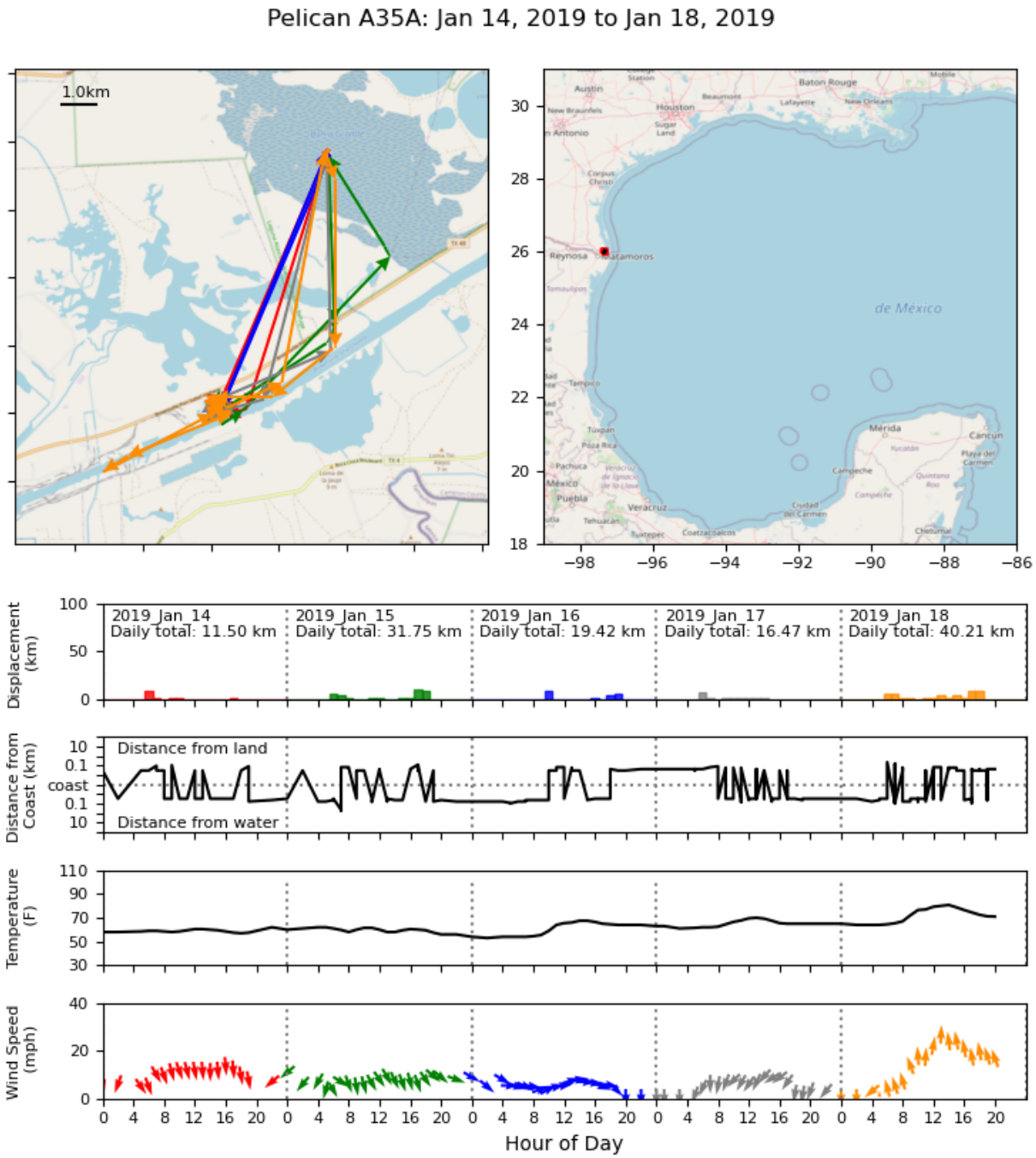

Figure 1108 - Maps and graphs showing movements of A35A between 2019-01-14 and 2019-01-17 inclusive.

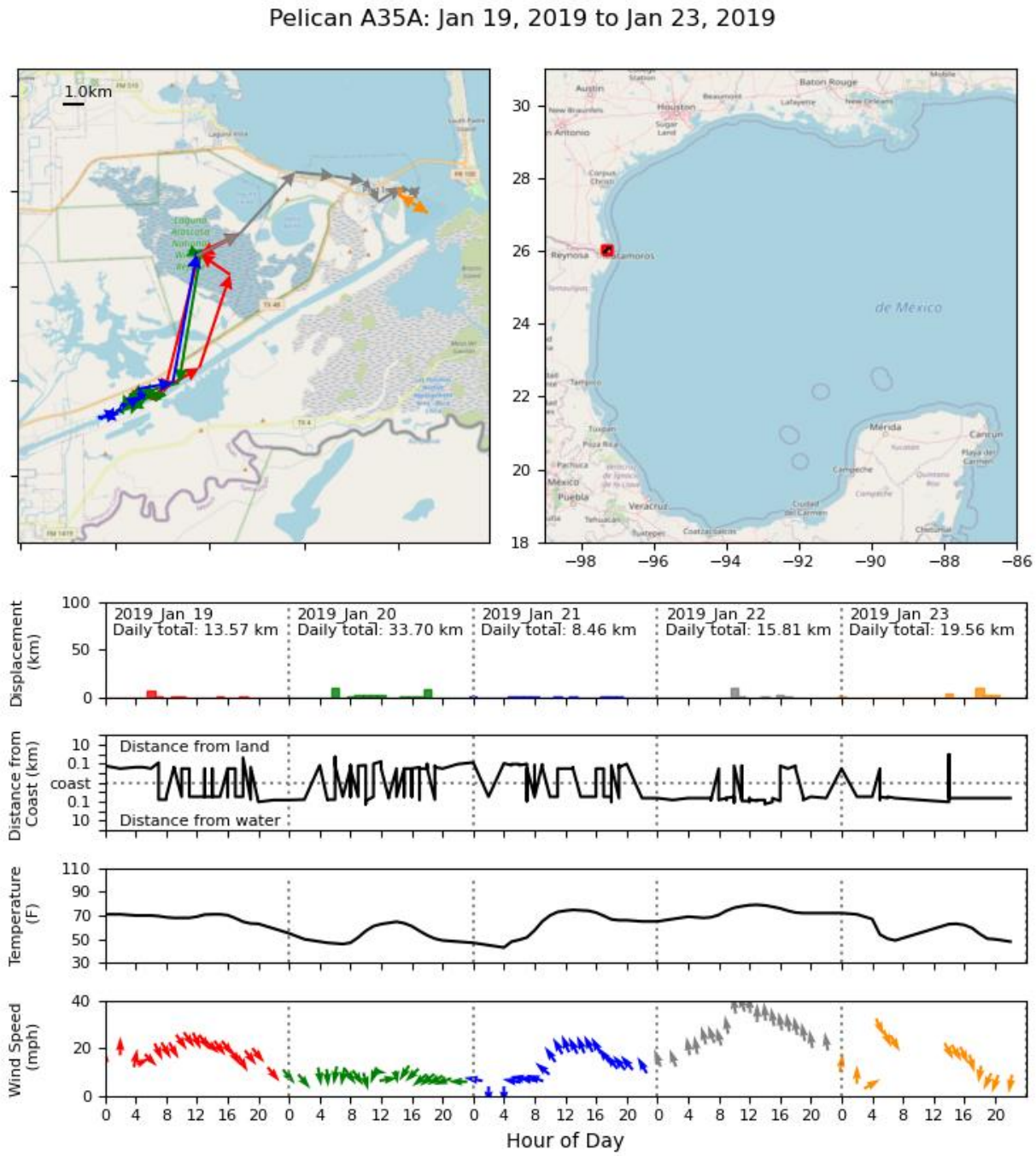

Figure 1109 - Maps and graphs showing movements of A35A between 2019-01-19 and 2019-01-22 inclusive.

Pelican BCA6 - Active from January 28, 2019 to April 30, 2020

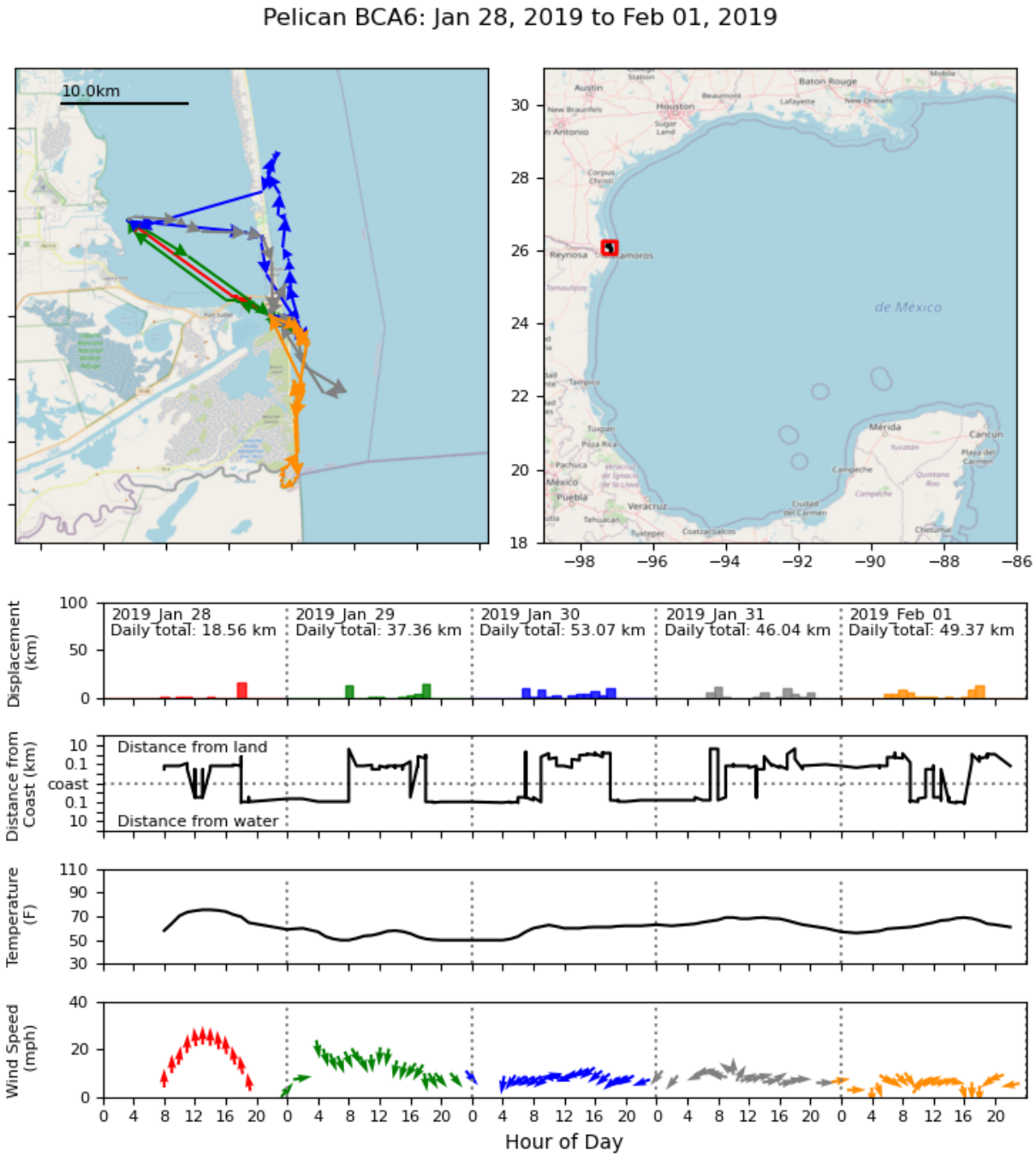

Figure 1110 - Maps and graphs showing movements of BCA6 between 2019-01-28 and 2019-01-31 inclusive.

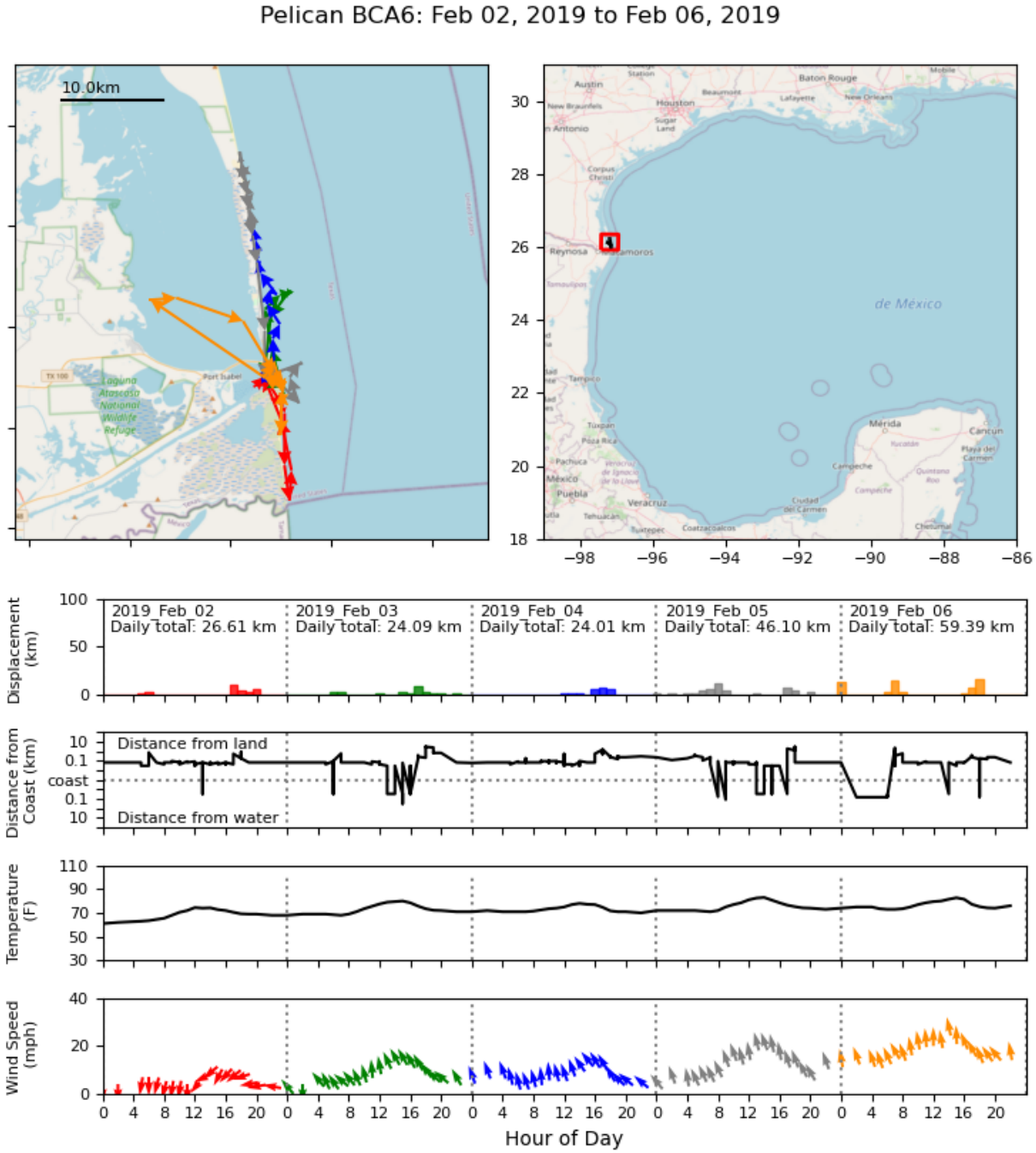

Figure 1111 - Maps and graphs showing movements of BCA6 between 2019-02-02 and 2019-02-05 inclusive.

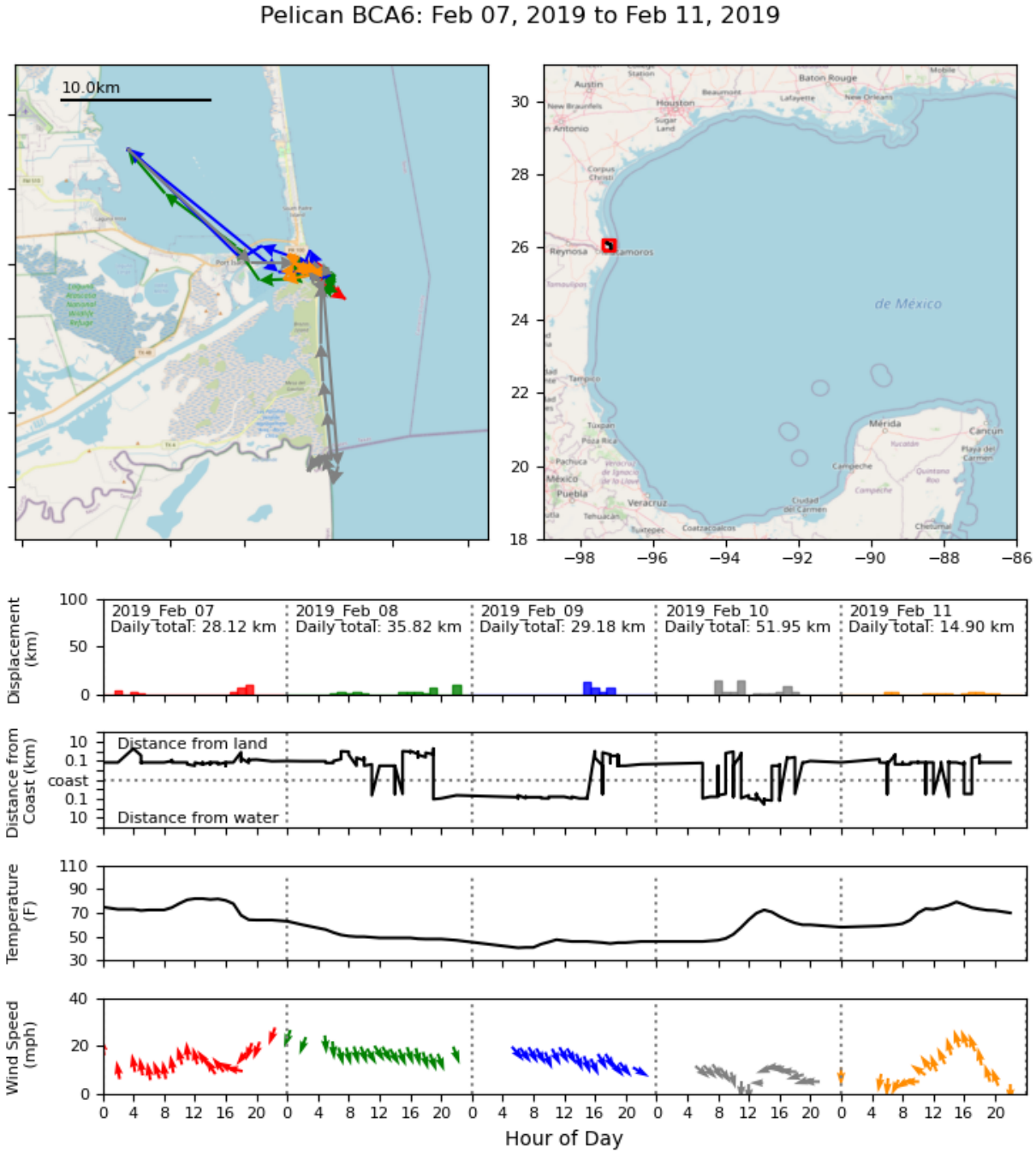

Figure 1112 - Maps and graphs showing movements of BCA6 between 2019-02-07 and 2019-02-10 inclusive.

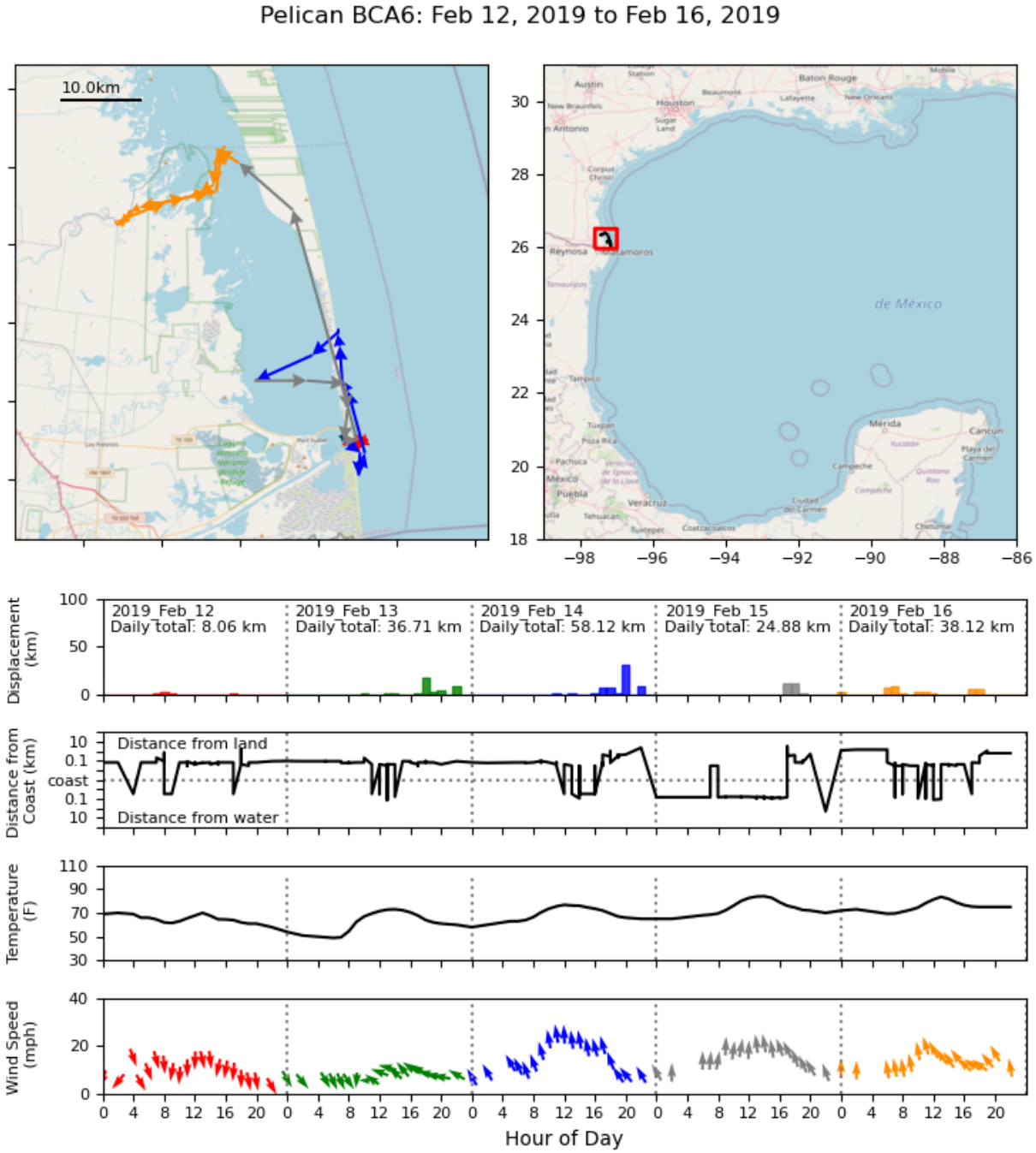

Figure 1113 - Maps and graphs showing movements of BCA6 between 2019-02-12 and 2019-02-15 inclusive.

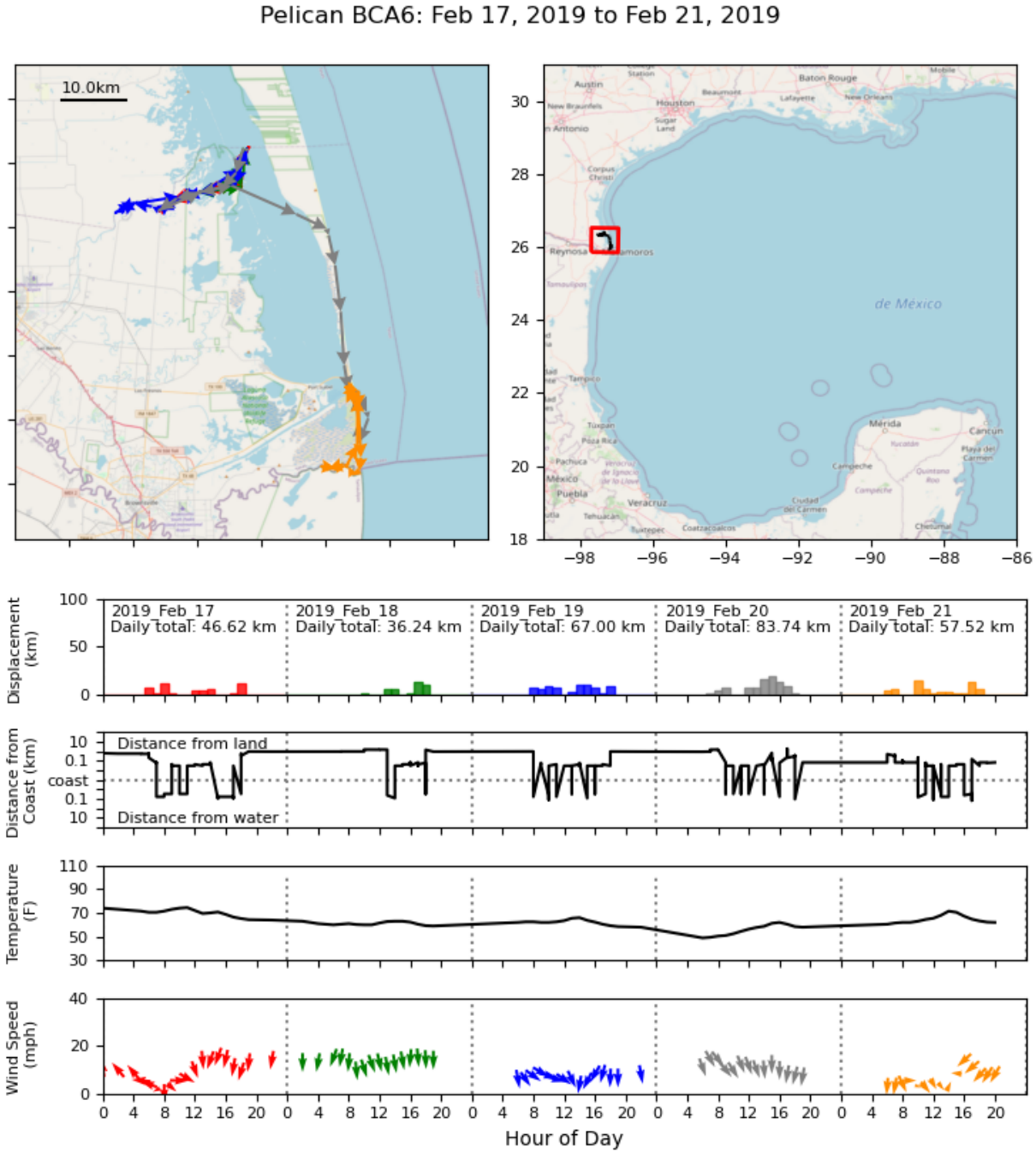

Figure 1114 - Maps and graphs showing movements of BCA6 between 2019-02-17 and 2019-02-20 inclusive.

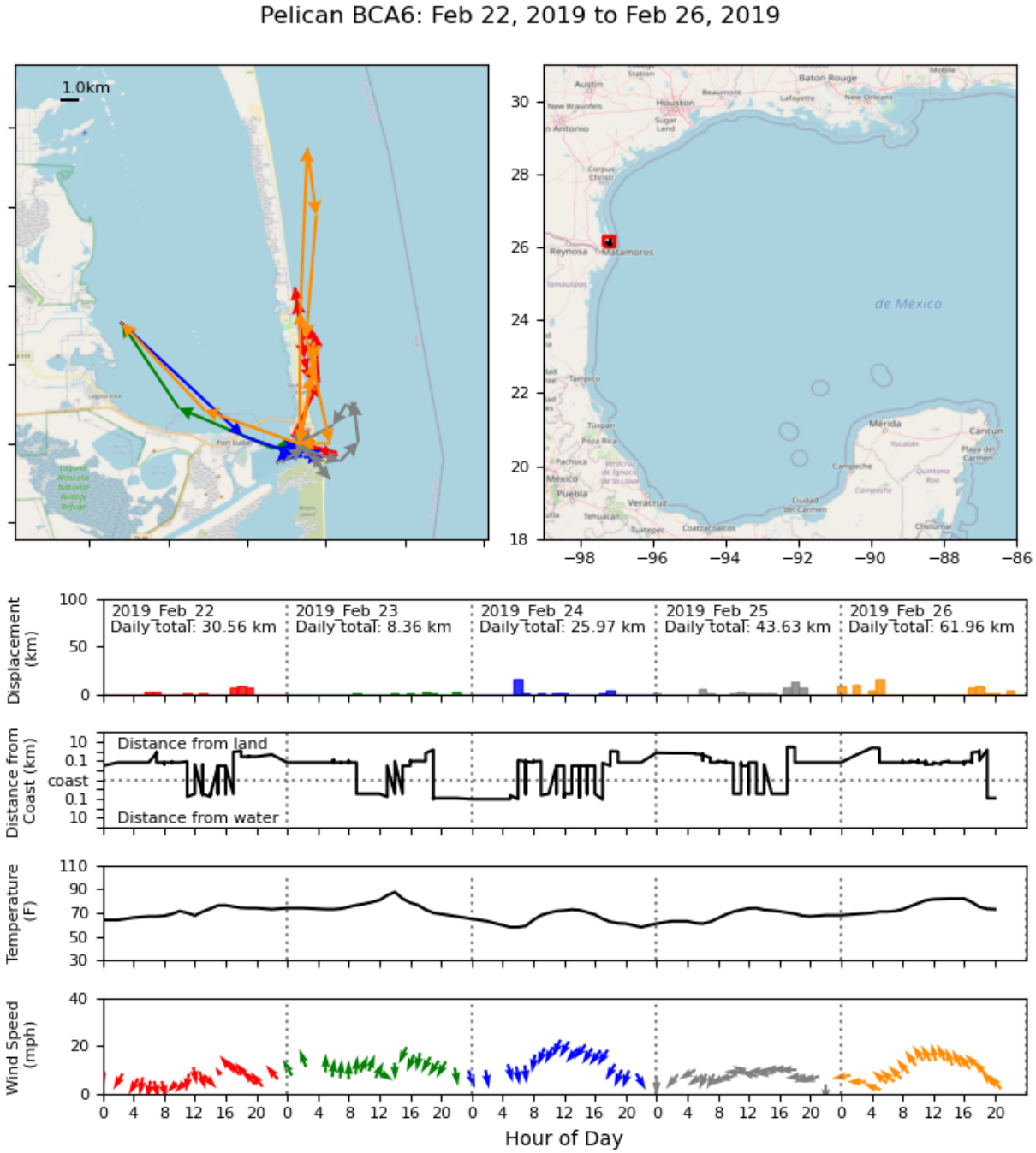

Figure 1115 - Maps and graphs showing movements of BCA6 between 2019-02-22 and 2019-02-25 inclusive.

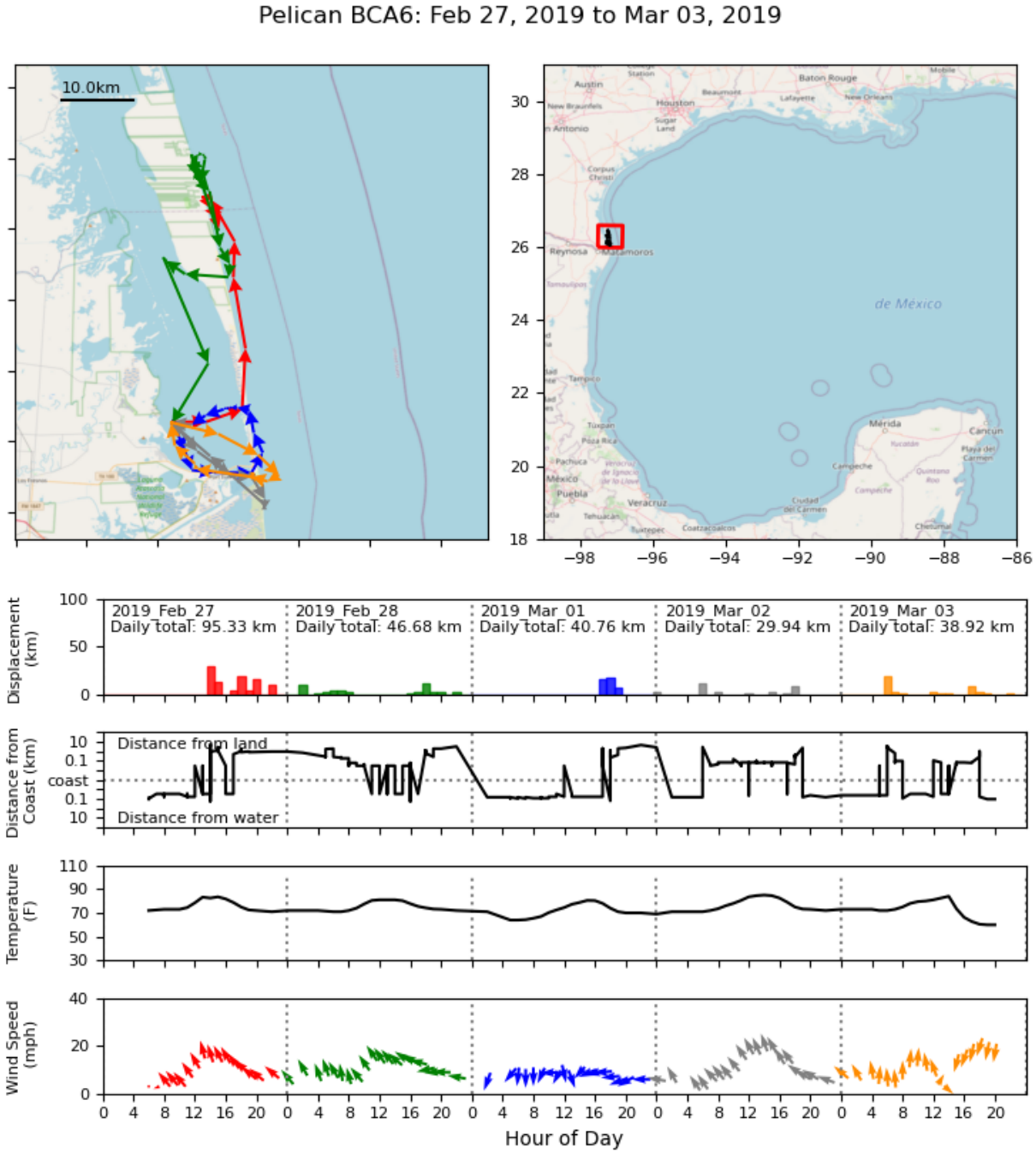

Figure 1116 - Maps and graphs showing movements of BCA6 between 2019-02-27 and 2019-03-02 inclusive.

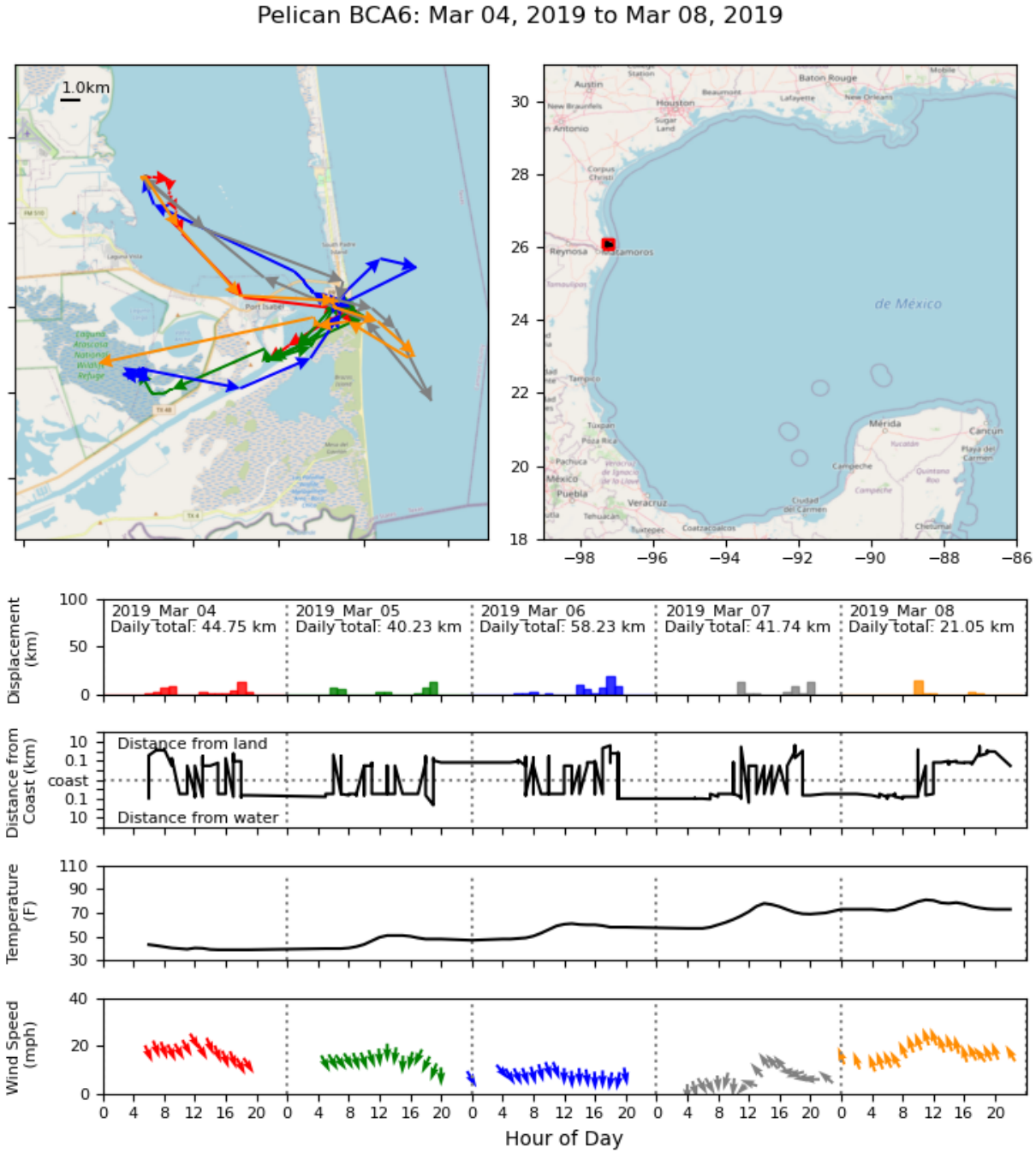

Figure 1117 - Maps and graphs showing movements of BCA6 between 2019-03-04 and 2019-03-07 inclusive.

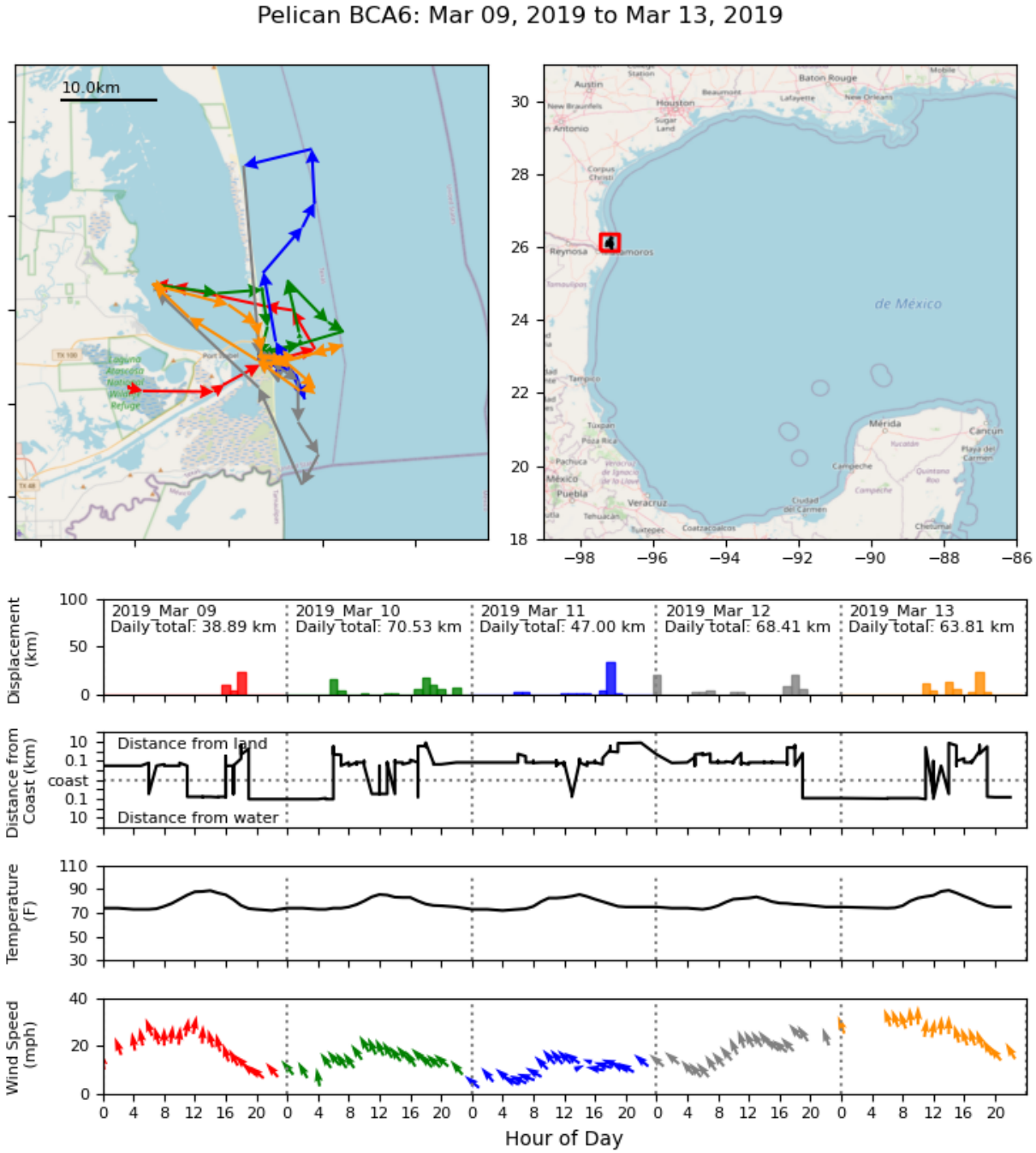

Figure 1118 - Maps and graphs showing movements of BCA6 between 2019-03-09 and 2019-03-12 inclusive.

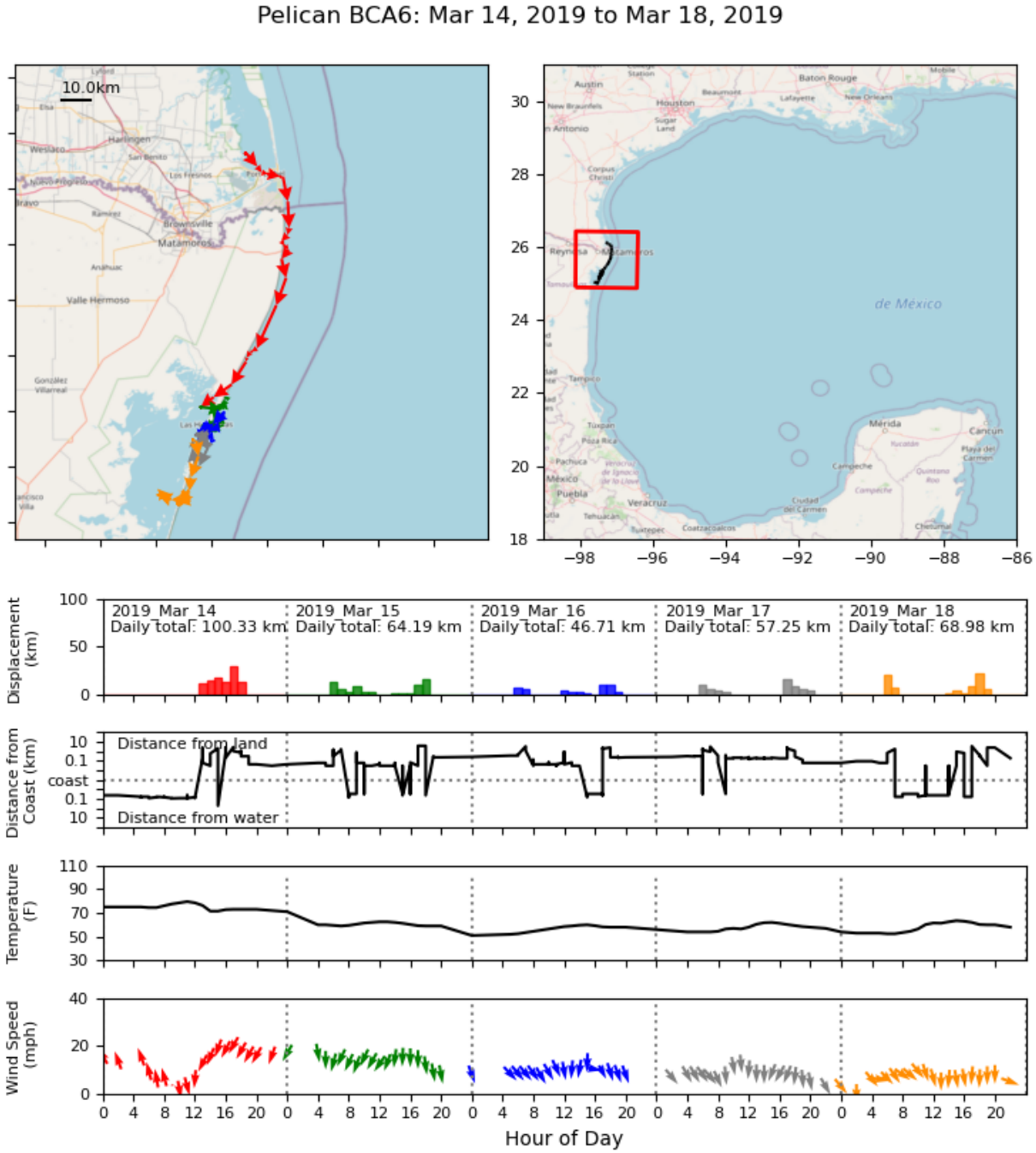

Figure 1119 - Maps and graphs showing movements of BCA6 between 2019-03-14 and 2019-03-17 inclusive.

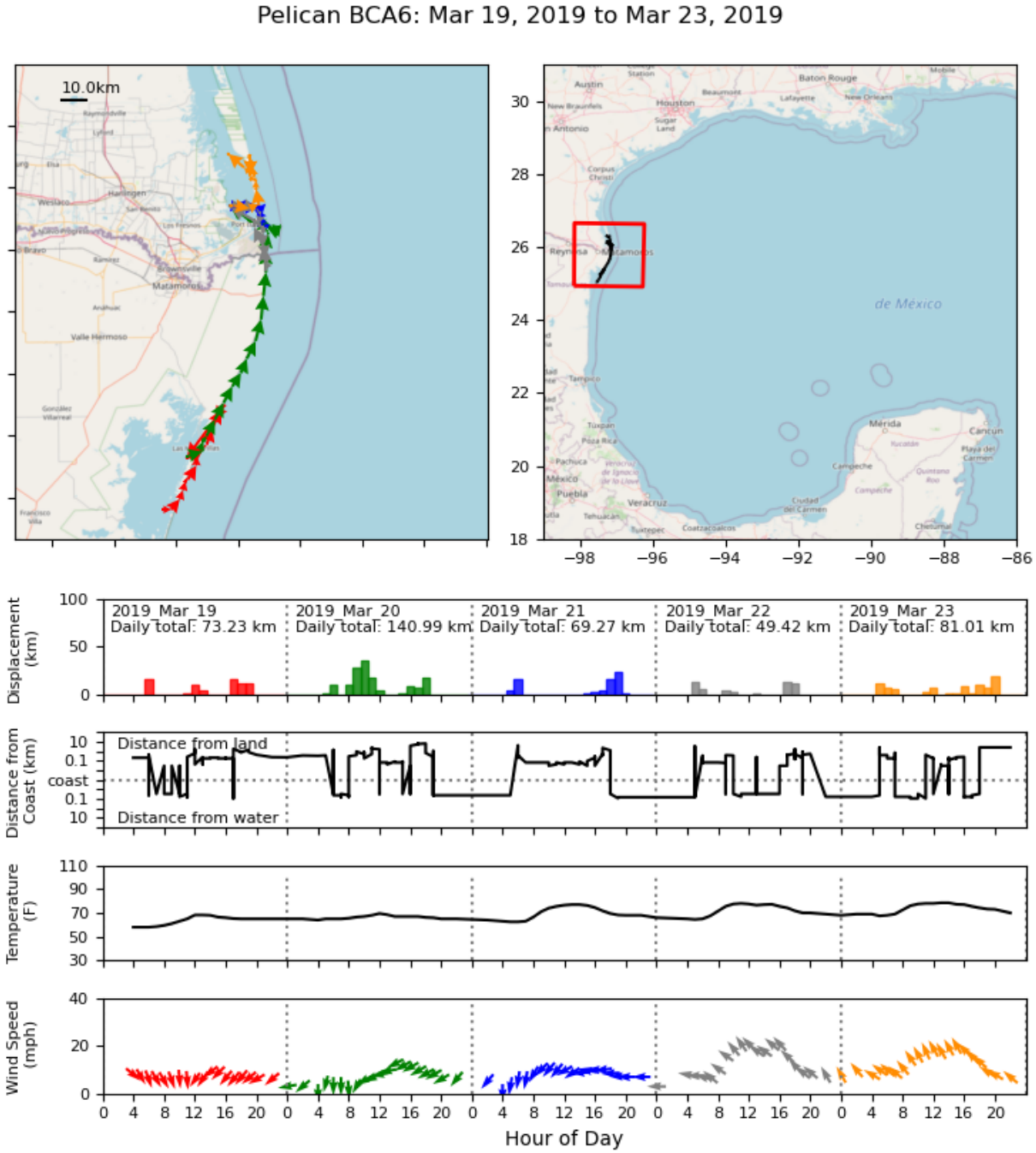

Figure 1120 - Maps and graphs showing movements of BCA6 between 2019-03-19 and 2019-03-22 inclusive.

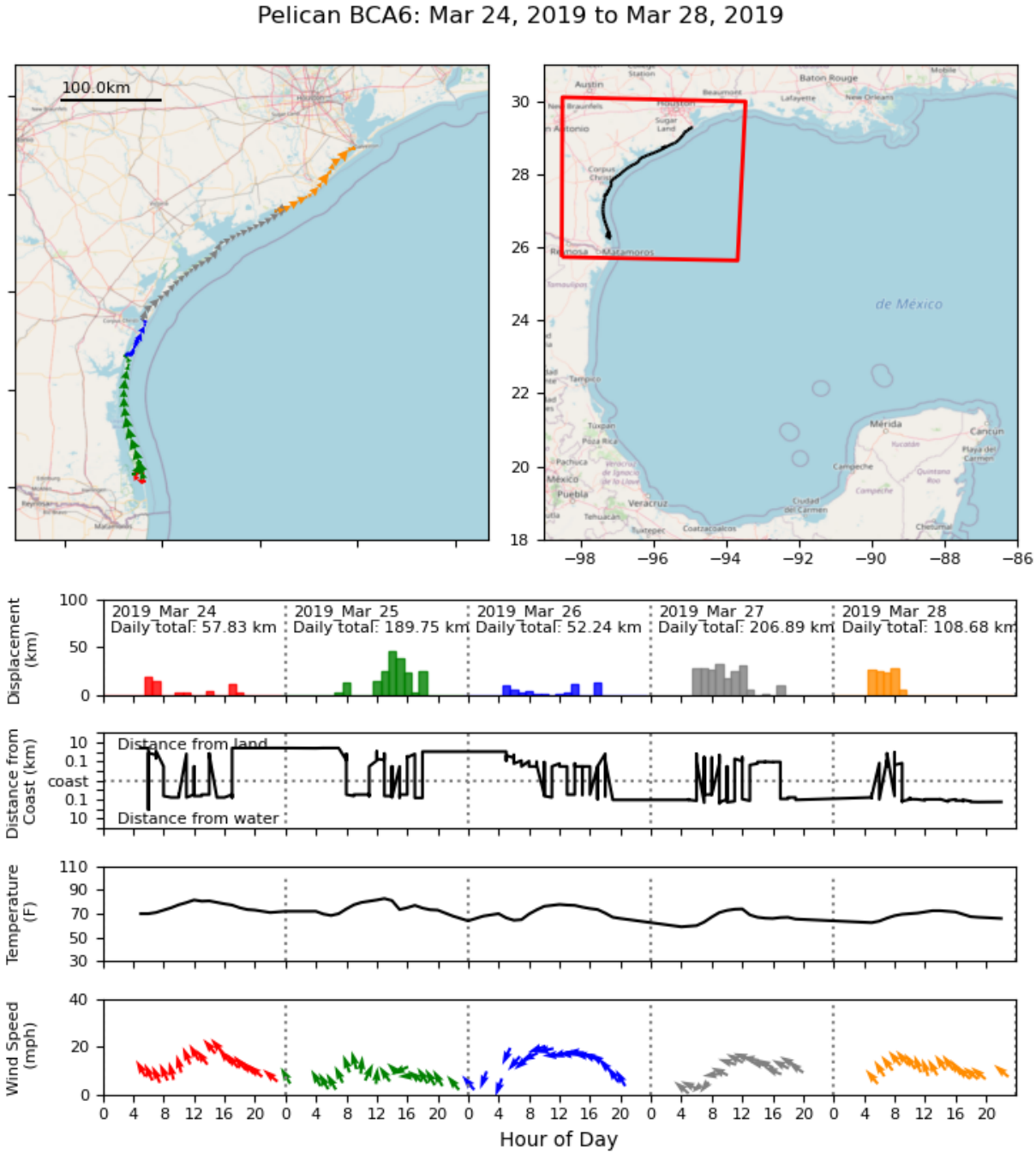

Figure 1121 - Maps and graphs showing movements of BCA6 between 2019-03-24 and 2019-03-27 inclusive.

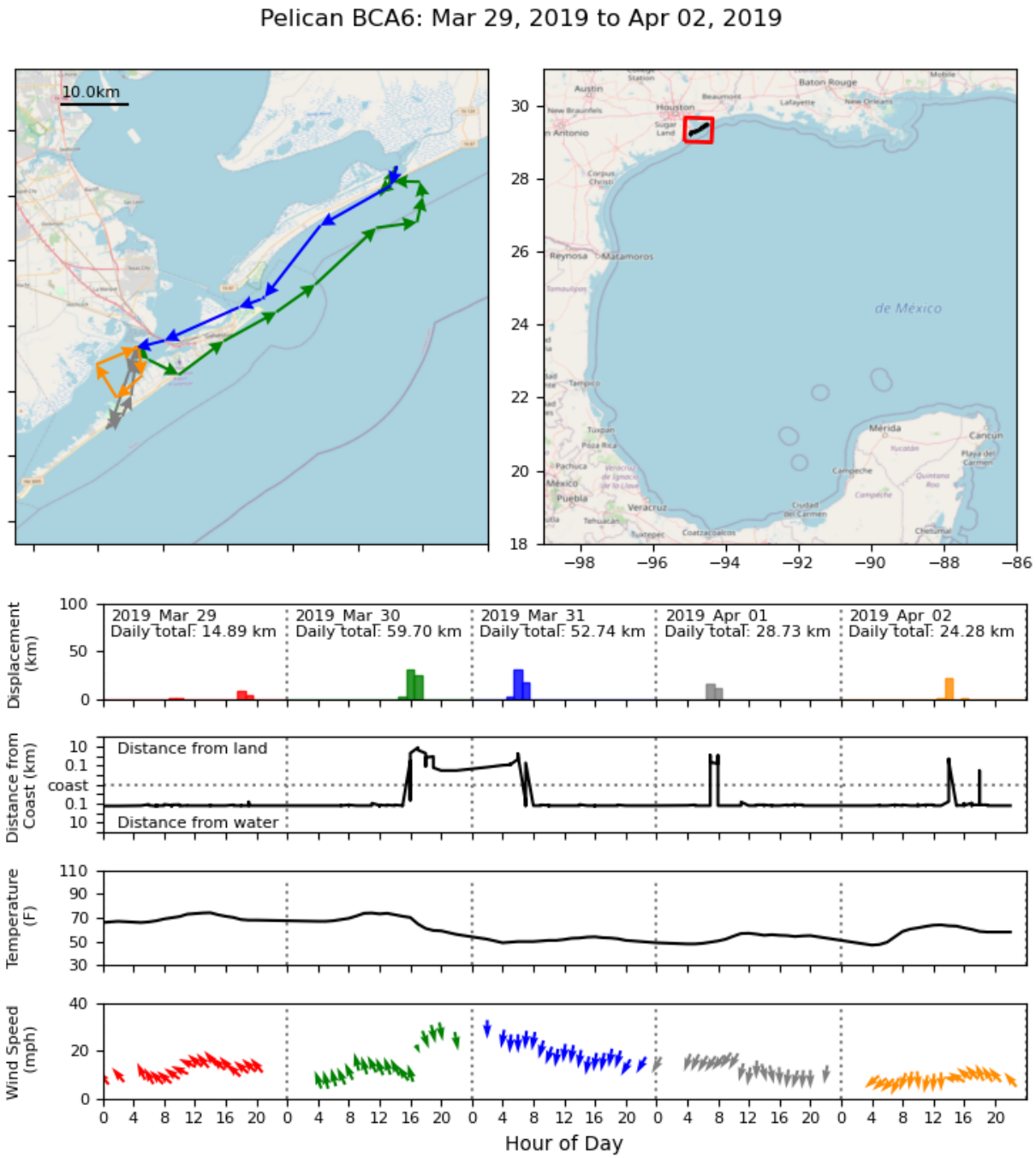

Figure 1122 - Maps and graphs showing movements of BCA6 between 2019-03-29 and 2019-04-01 inclusive.

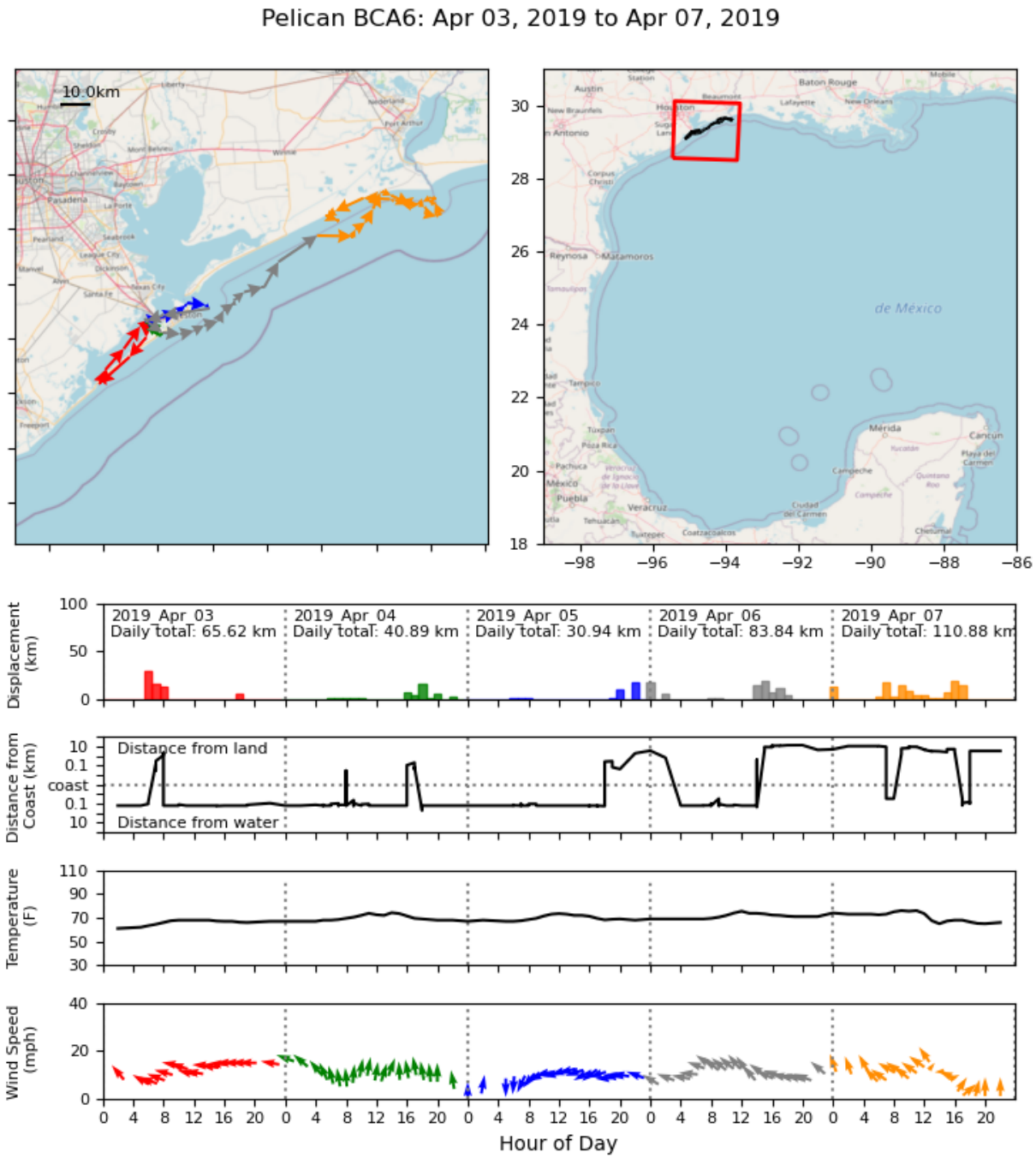

Figure 1123 - Maps and graphs showing movements of BCA6 between 2019-04-03 and 2019-04-06 inclusive.

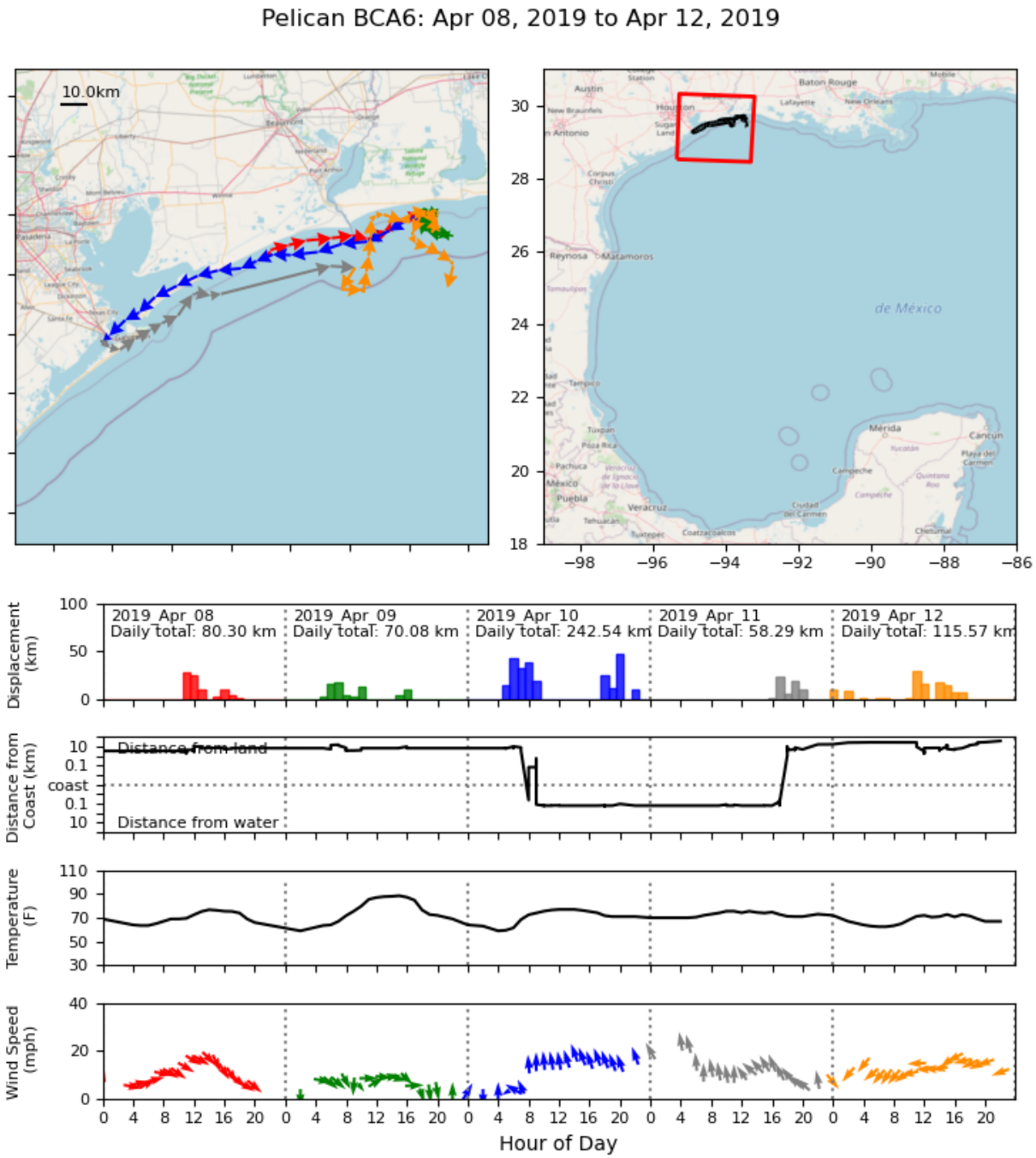

Figure 1124 - Maps and graphs showing movements of BCA6 between 2019-04-08 and 2019-04-11 inclusive.

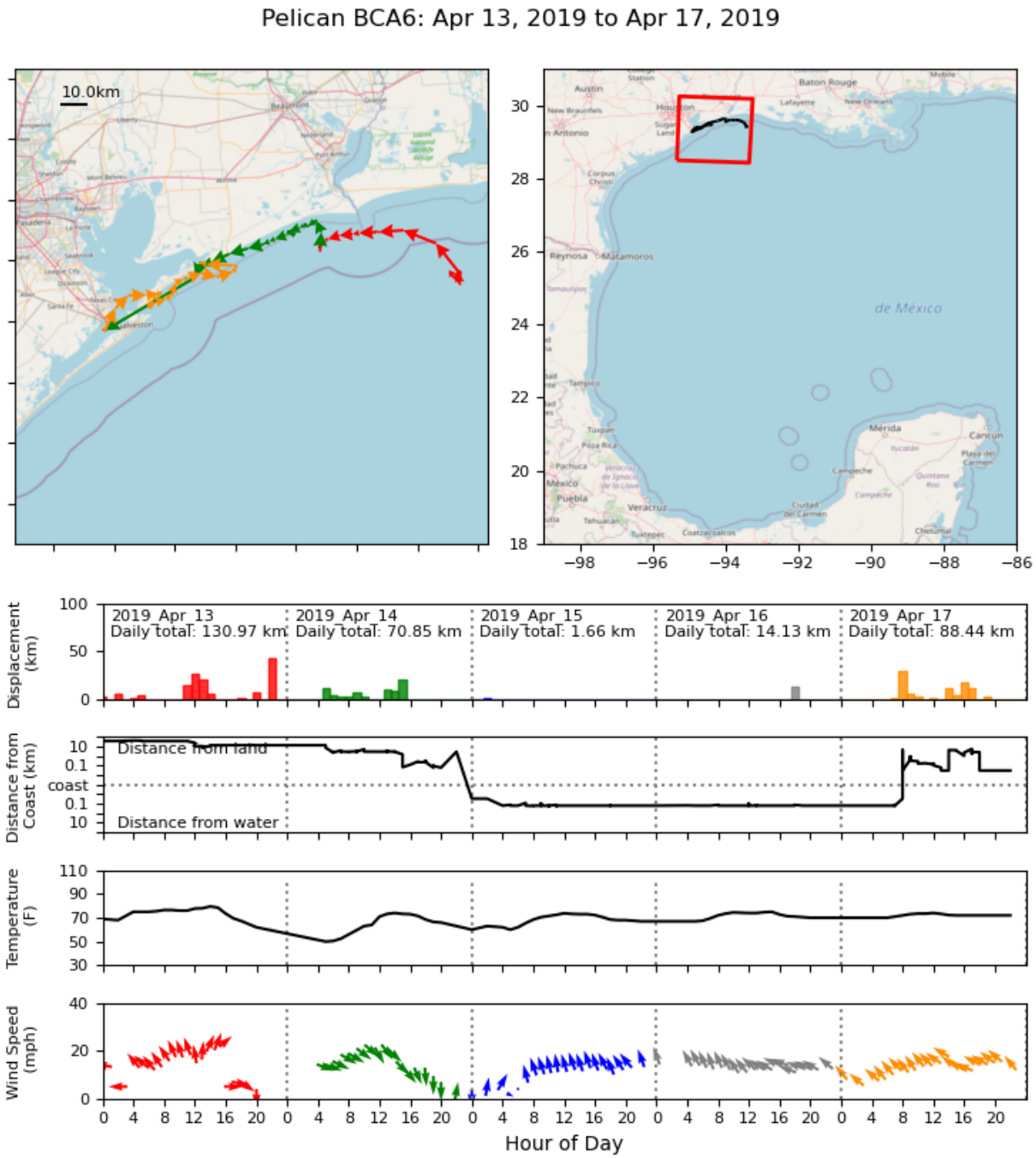

Figure 1125 - Maps and graphs showing movements of BCA6 between 2019-04-13 and 2019-04-16 inclusive.

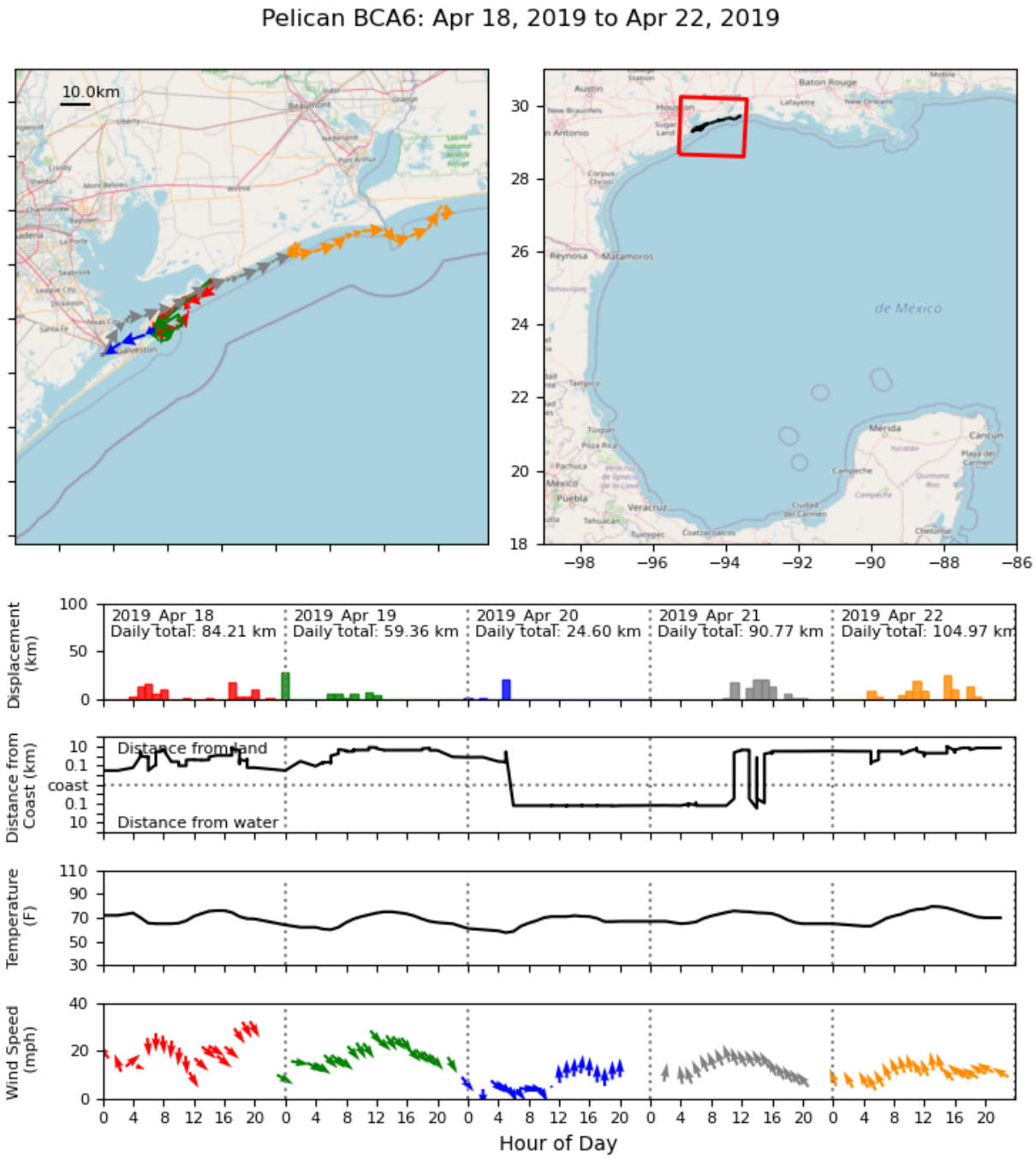

Figure 1126 - Maps and graphs showing movements of BCA6 between 2019-04-18 and 2019-04-21 inclusive.

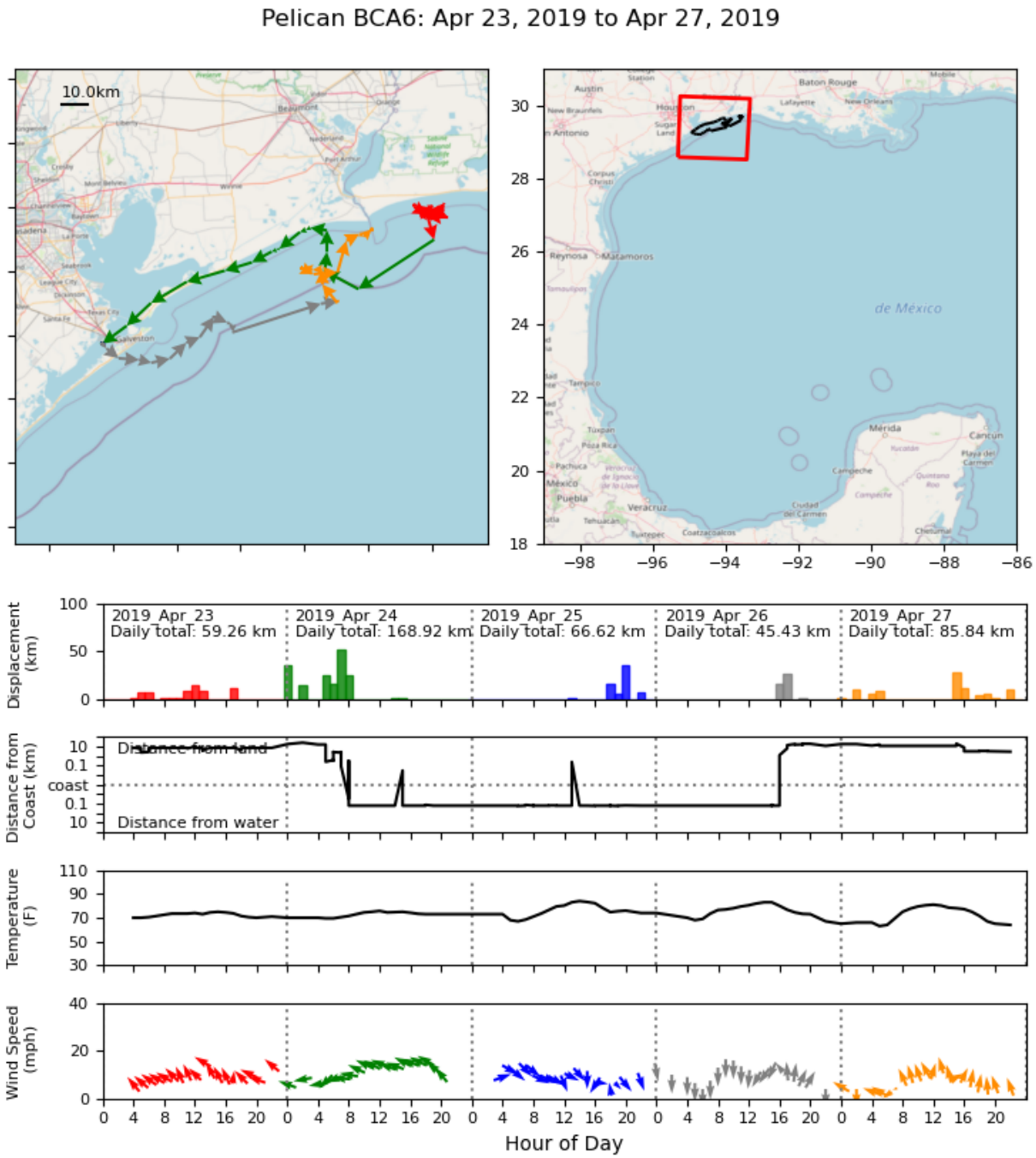

Figure 1127 - Maps and graphs showing movements of BCA6 between 2019-04-23 and 2019-04-26 inclusive.

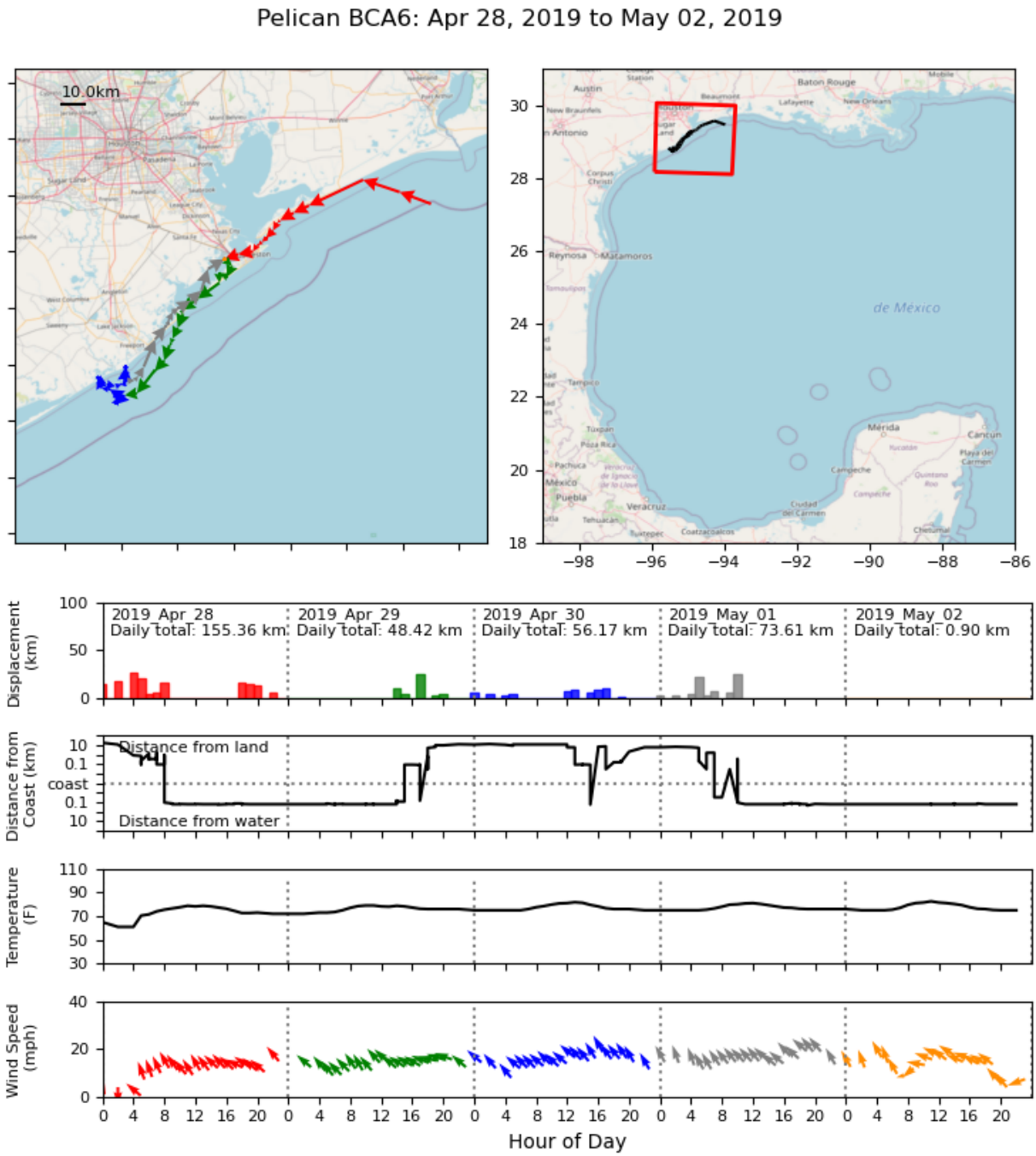

Figure 1128 - Maps and graphs showing movements of BCA6 between 2019-04-28 and 2019-05-01 inclusive.

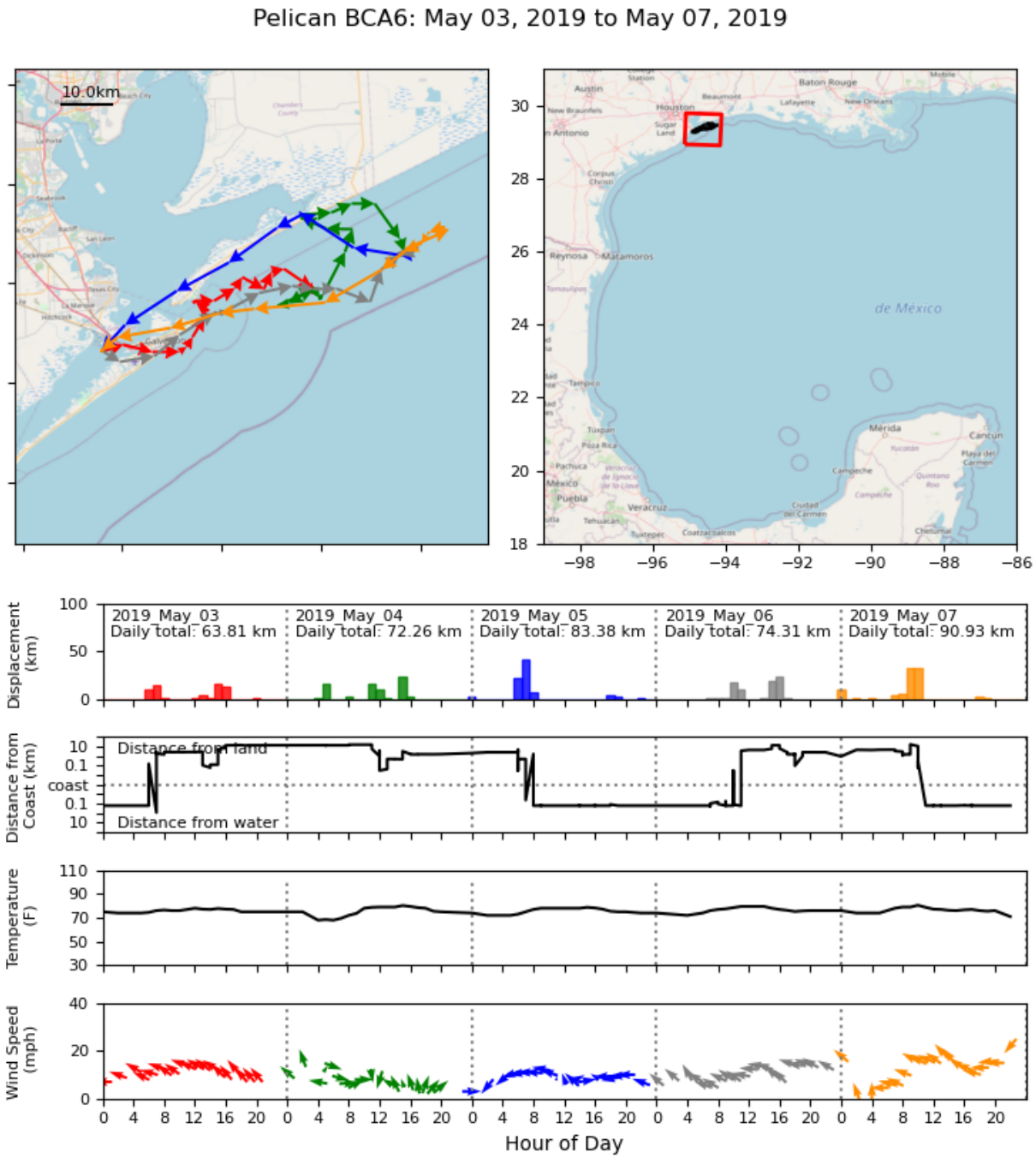

Figure 1129 - Maps and graphs showing movements of BCA6 between 2019-05-03 and 2019-05-06 inclusive.

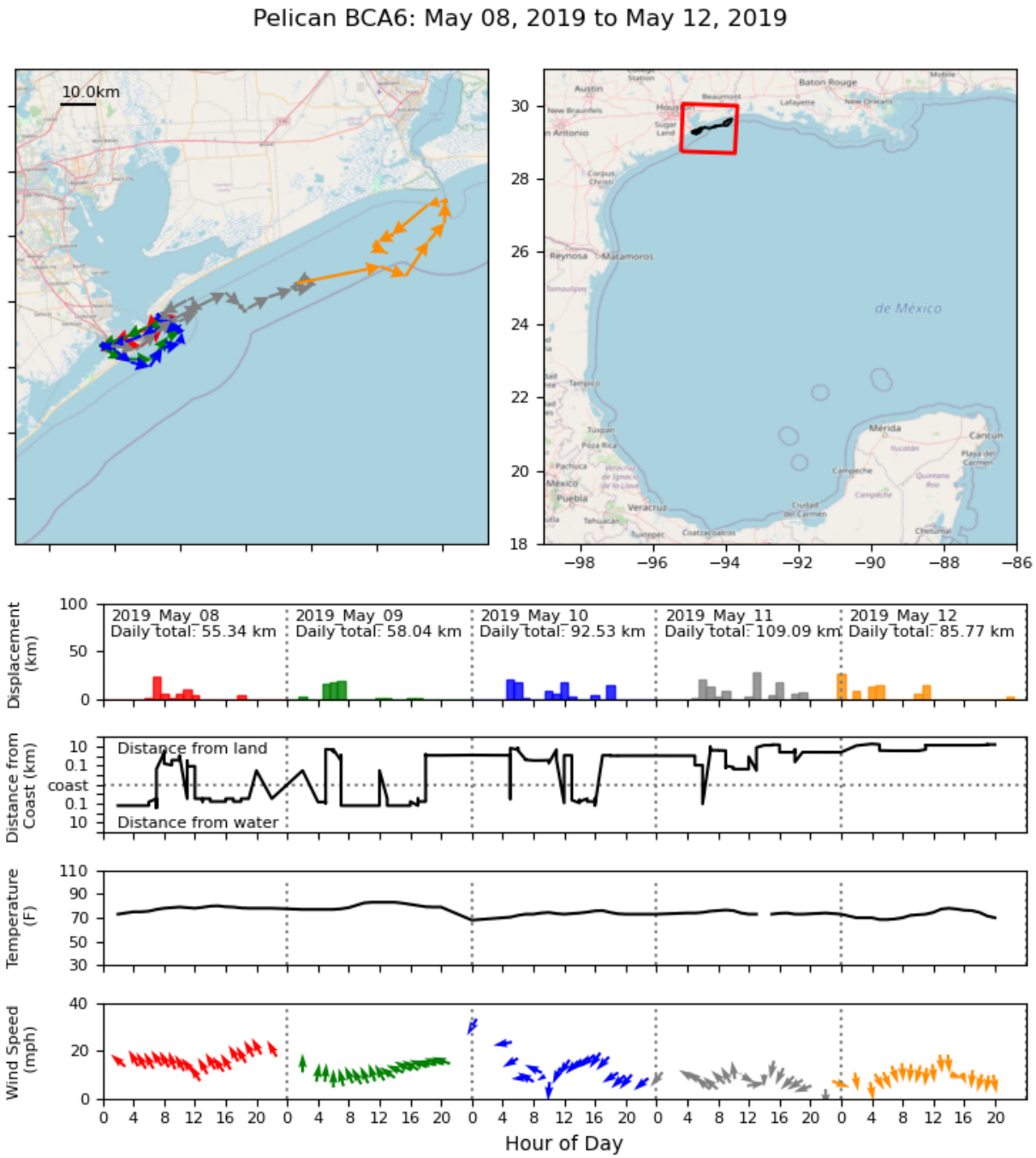

Figure 1130 - Maps and graphs showing movements of BCA6 between 2019-05-08 and 2019-05-11 inclusive.

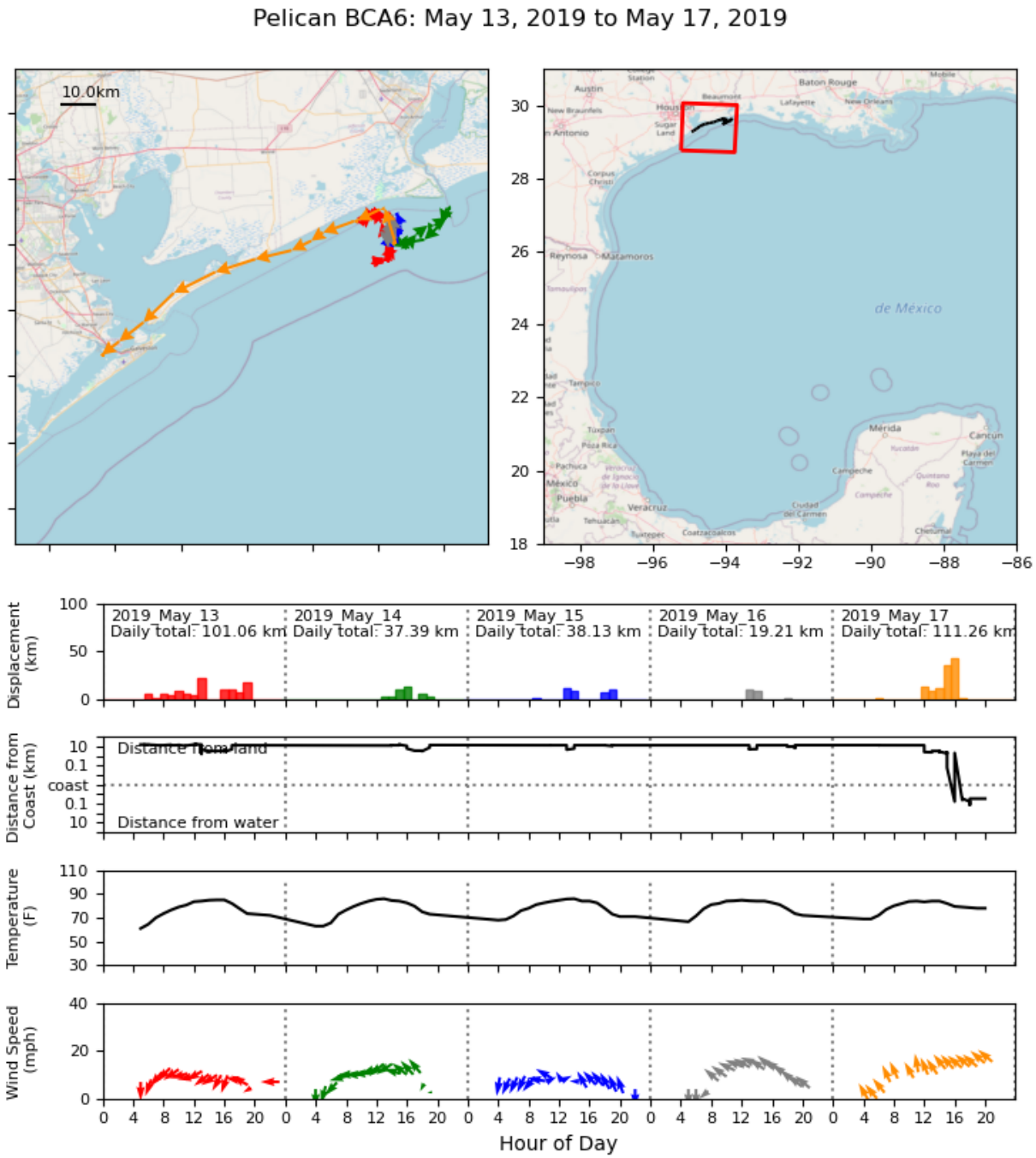

Figure 1131 - Maps and graphs showing movements of BCA6 between 2019-05-13 and 2019-05-16 inclusive.

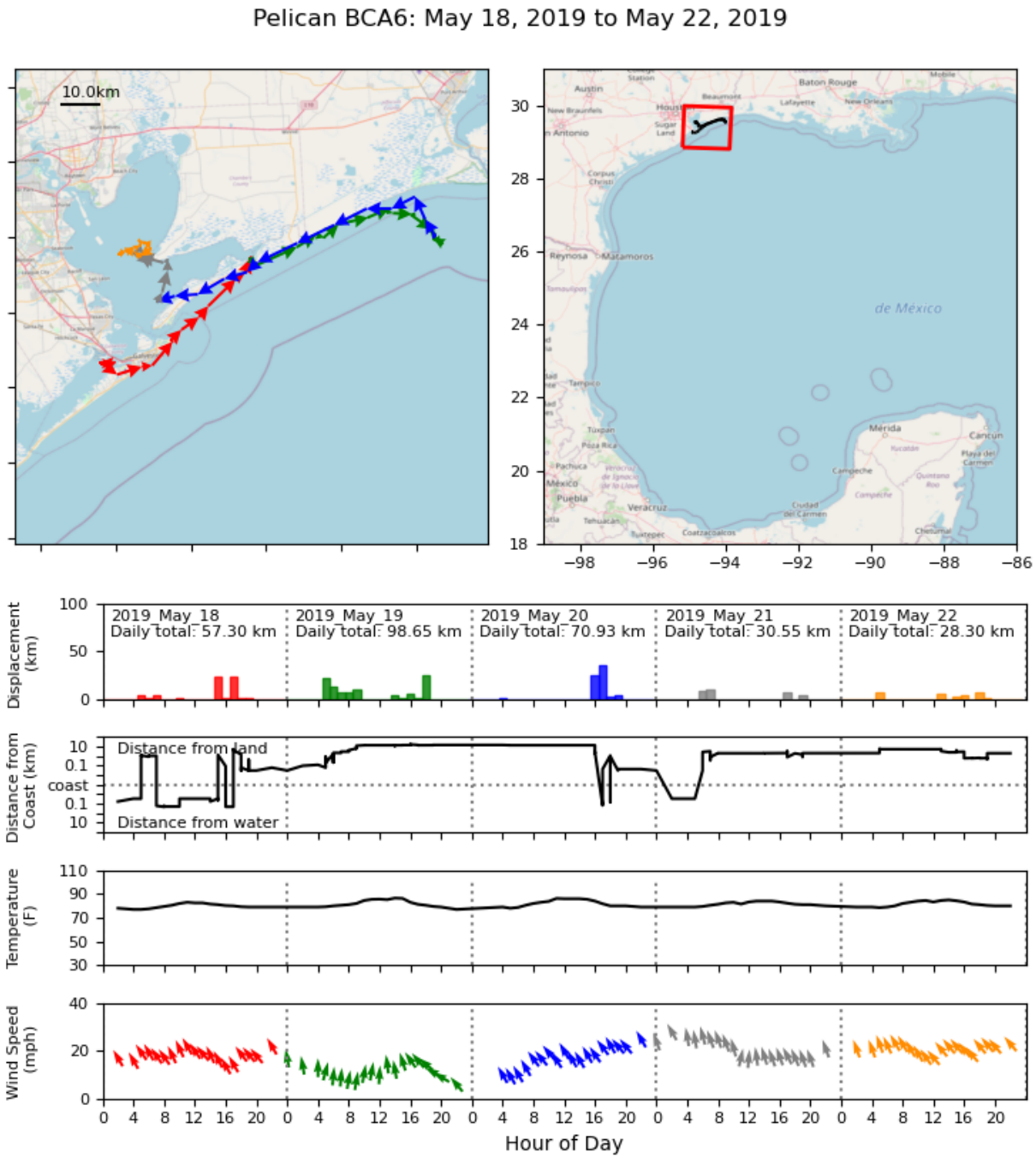

Figure 1132 - Maps and graphs showing movements of BCA6 between 2019-05-18 and 2019-05-21 inclusive.

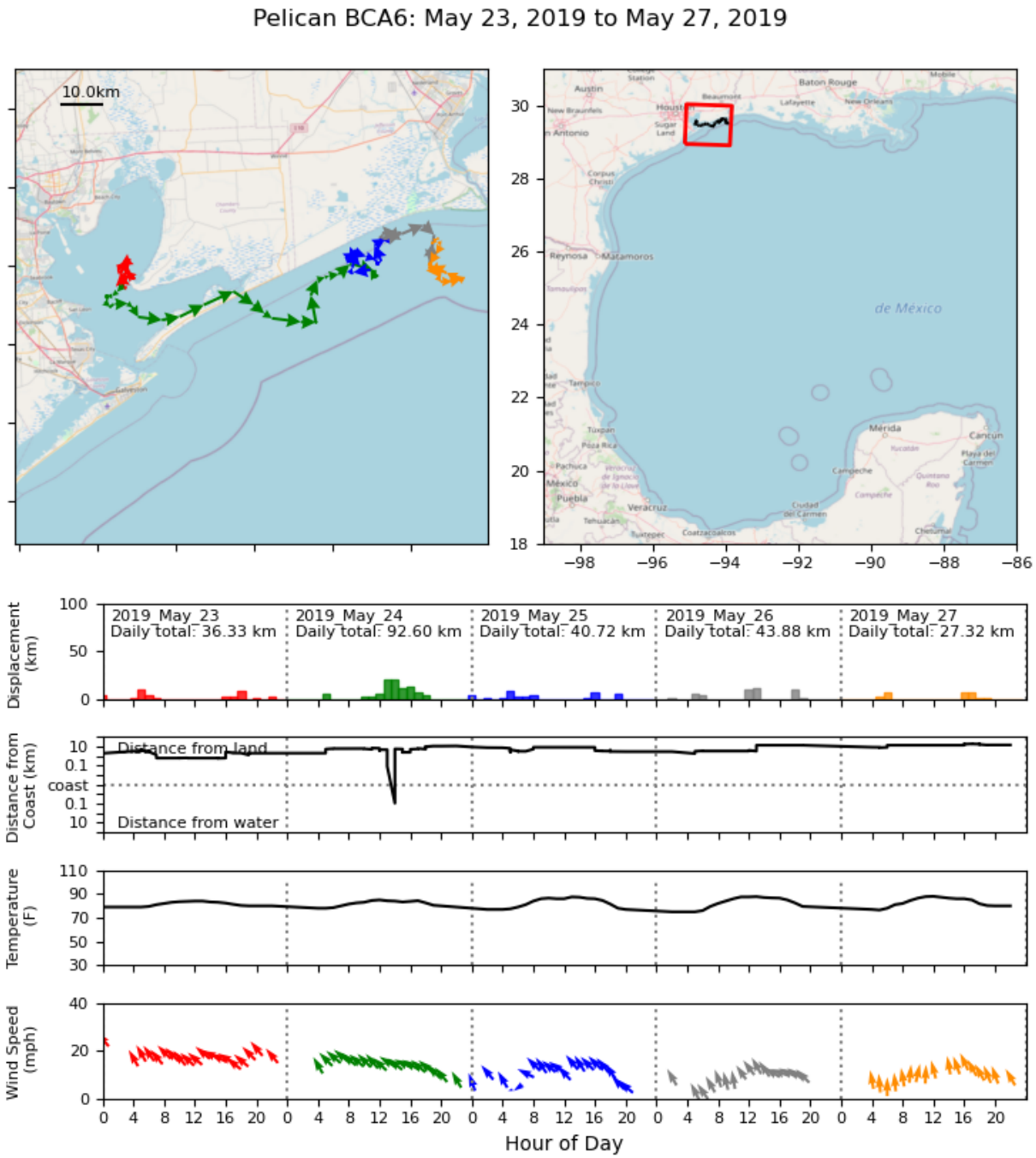

Figure 1133 - Maps and graphs showing movements of BCA6 between 2019-05-23 and 2019-05-26 inclusive.

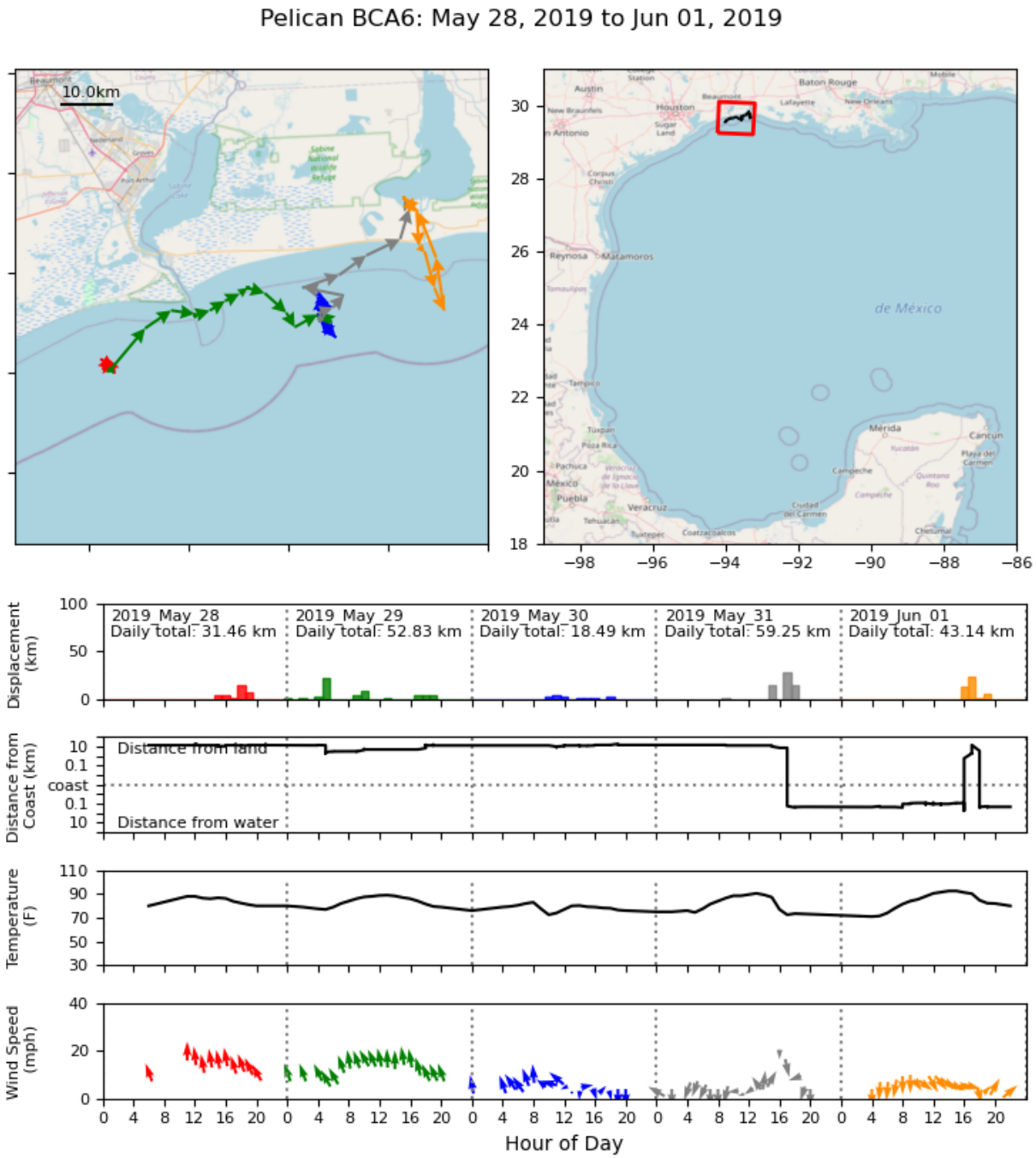

Figure 1134 - Maps and graphs showing movements of BCA6 between 2019-05-28 and 2019-05-31 inclusive.

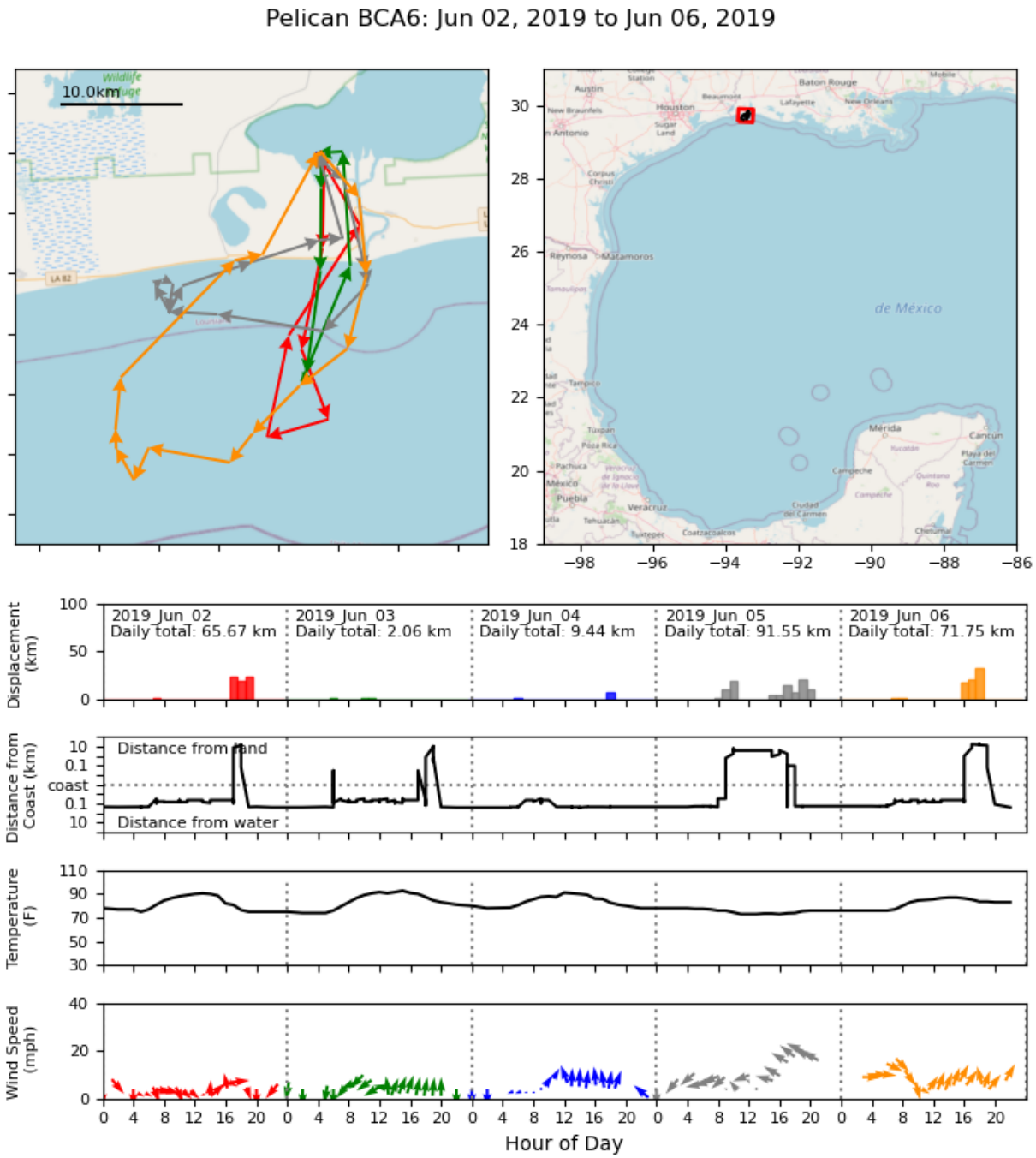

Figure 1135 - Maps and graphs showing movements of BCA6 between 2019-06-02 and 2019-06-05 inclusive.

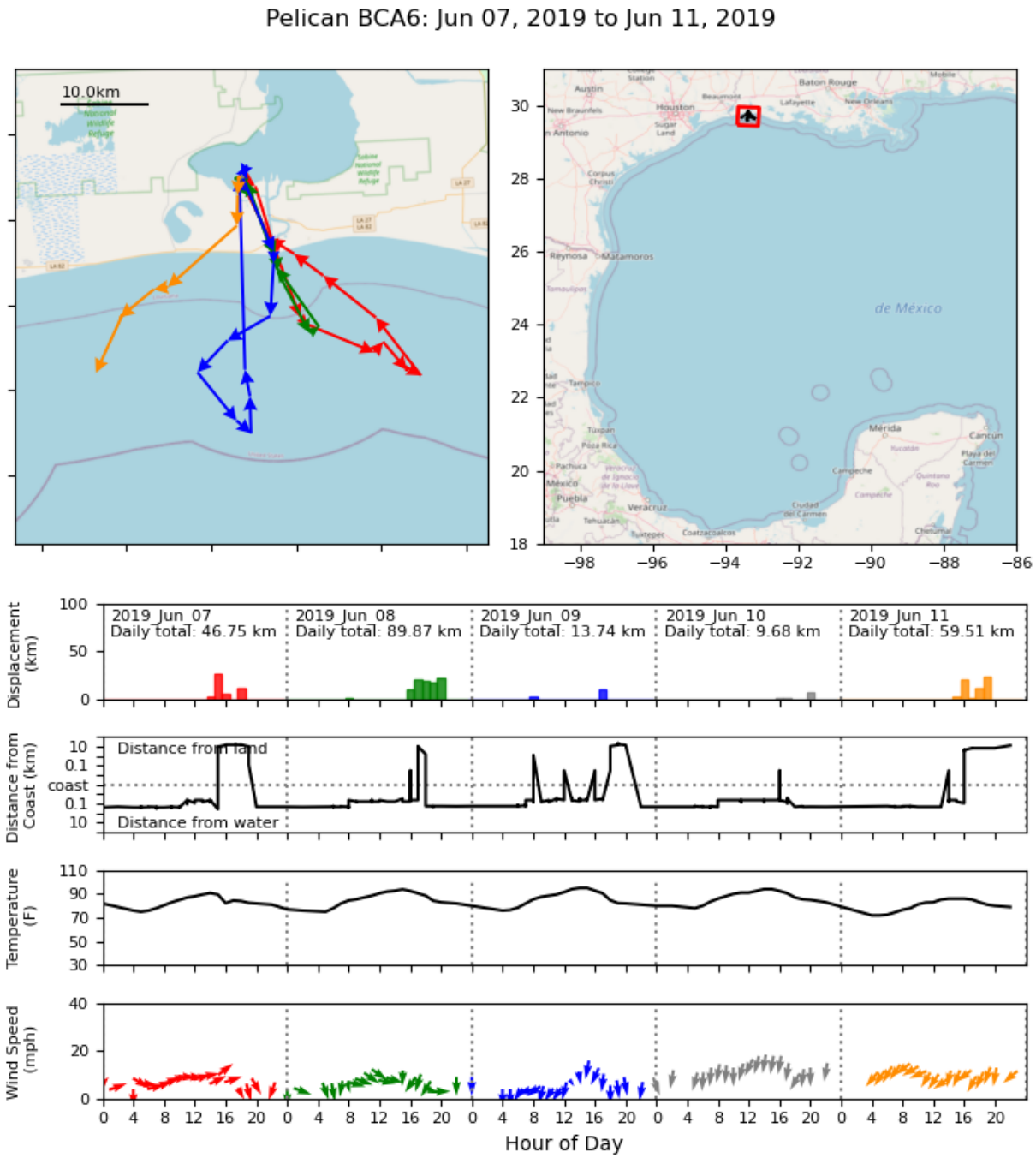

Figure 1136 - Maps and graphs showing movements of BCA6 between 2019-06-07 and 2019-06-10 inclusive.

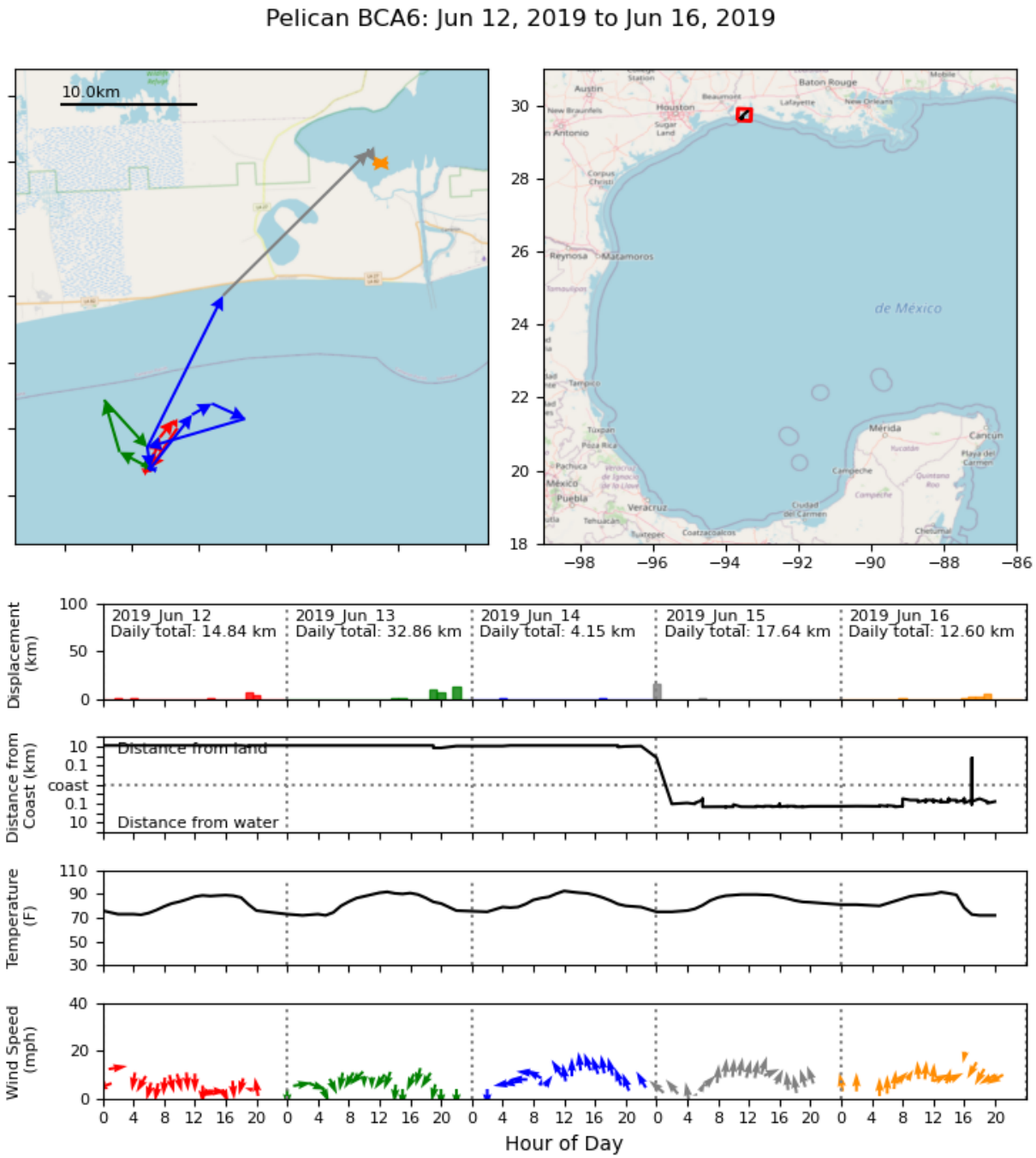

Figure 1137 - Maps and graphs showing movements of BCA6 between 2019-06-12 and 2019-06-15 inclusive.

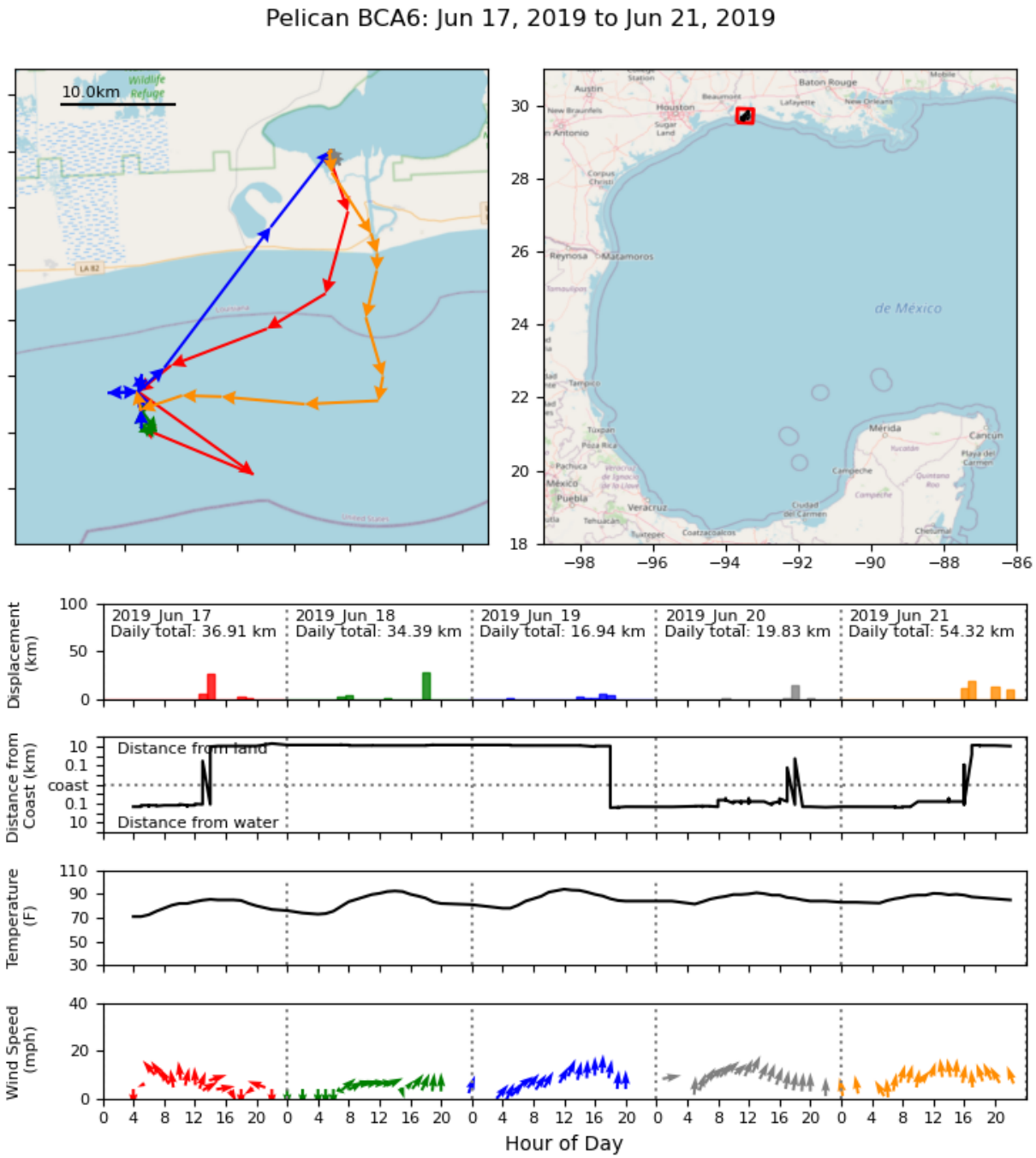

Figure 1138 - Maps and graphs showing movements of BCA6 between 2019-06-17 and 2019-06-20 inclusive.

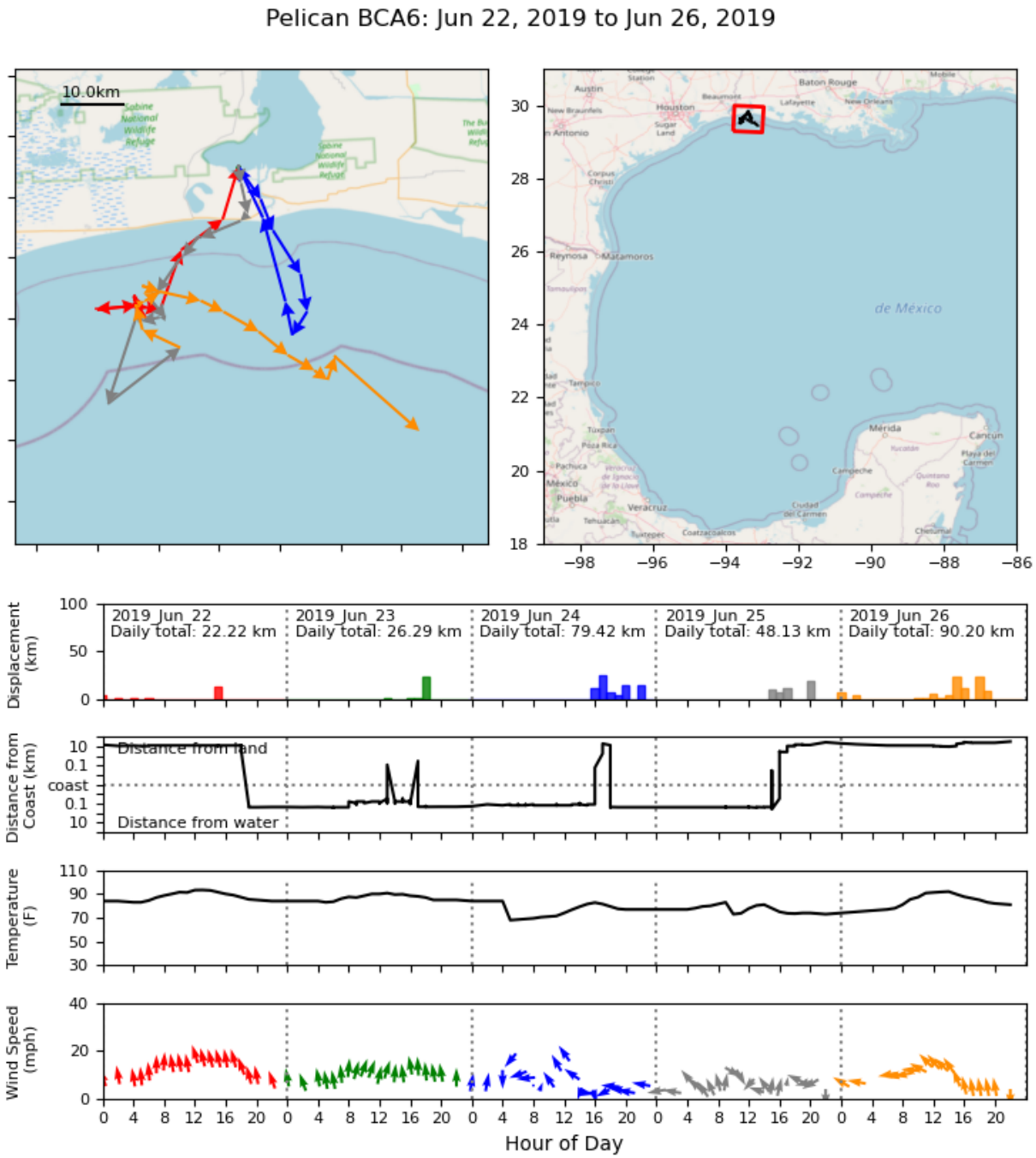

Figure 1139 - Maps and graphs showing movements of BCA6 between 2019-06-22 and 2019-06-25 inclusive.

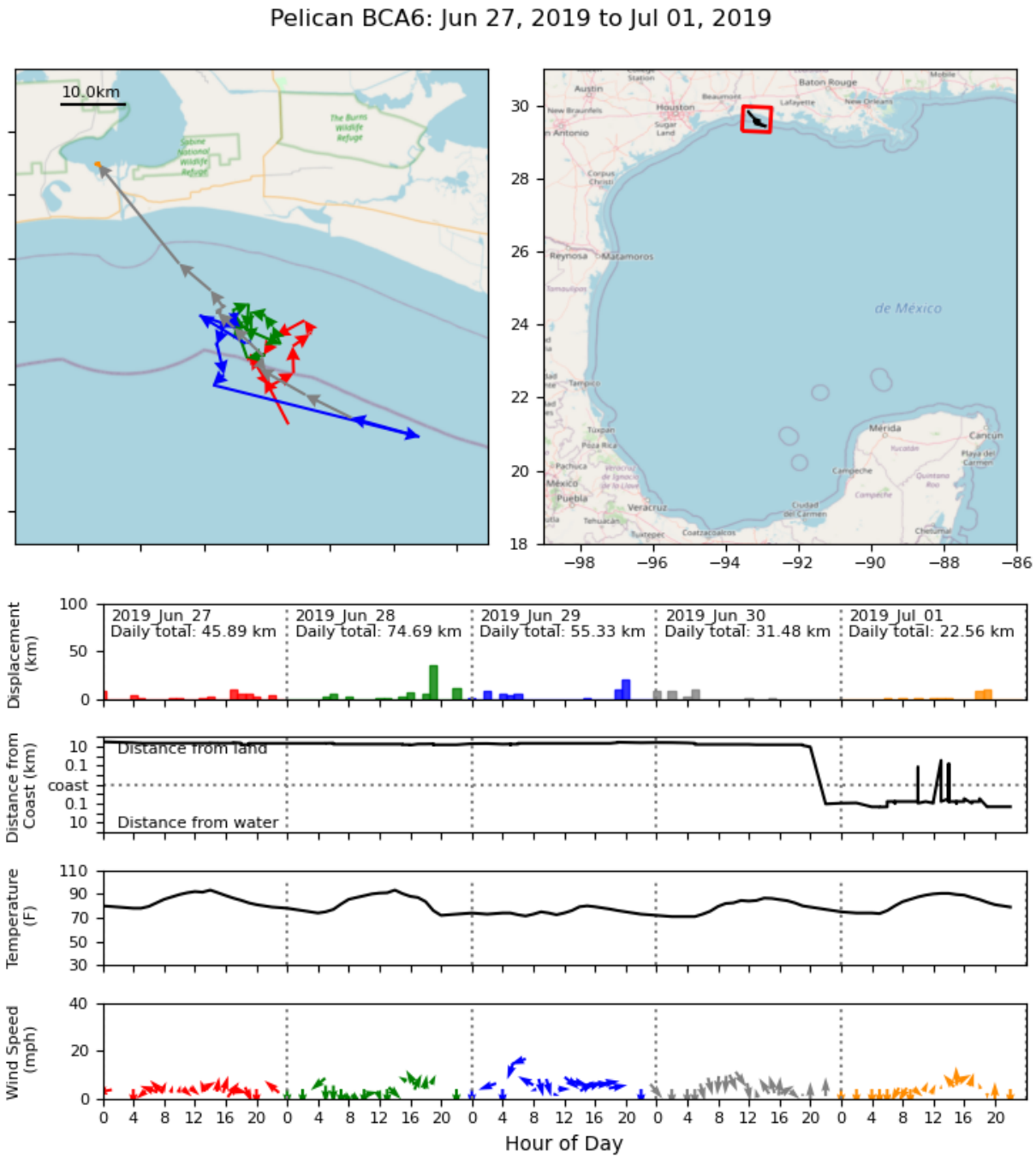

Figure 1140 - Maps and graphs showing movements of BCA6 between 2019-06-27 and 2019-06-30 inclusive.

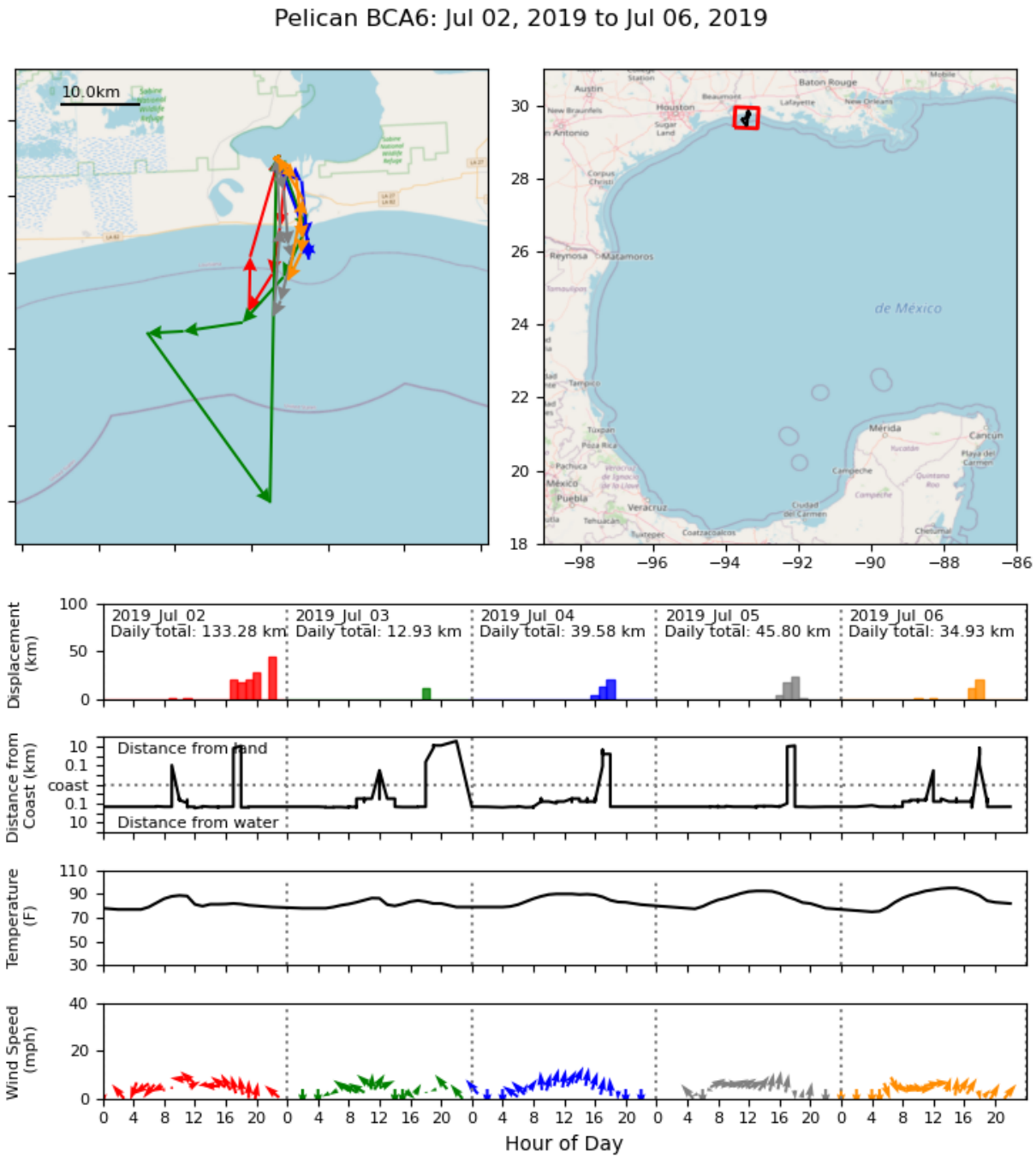

Figure 1141 - Maps and graphs showing movements of BCA6 between 2019-07-02 and 2019-07-05 inclusive.

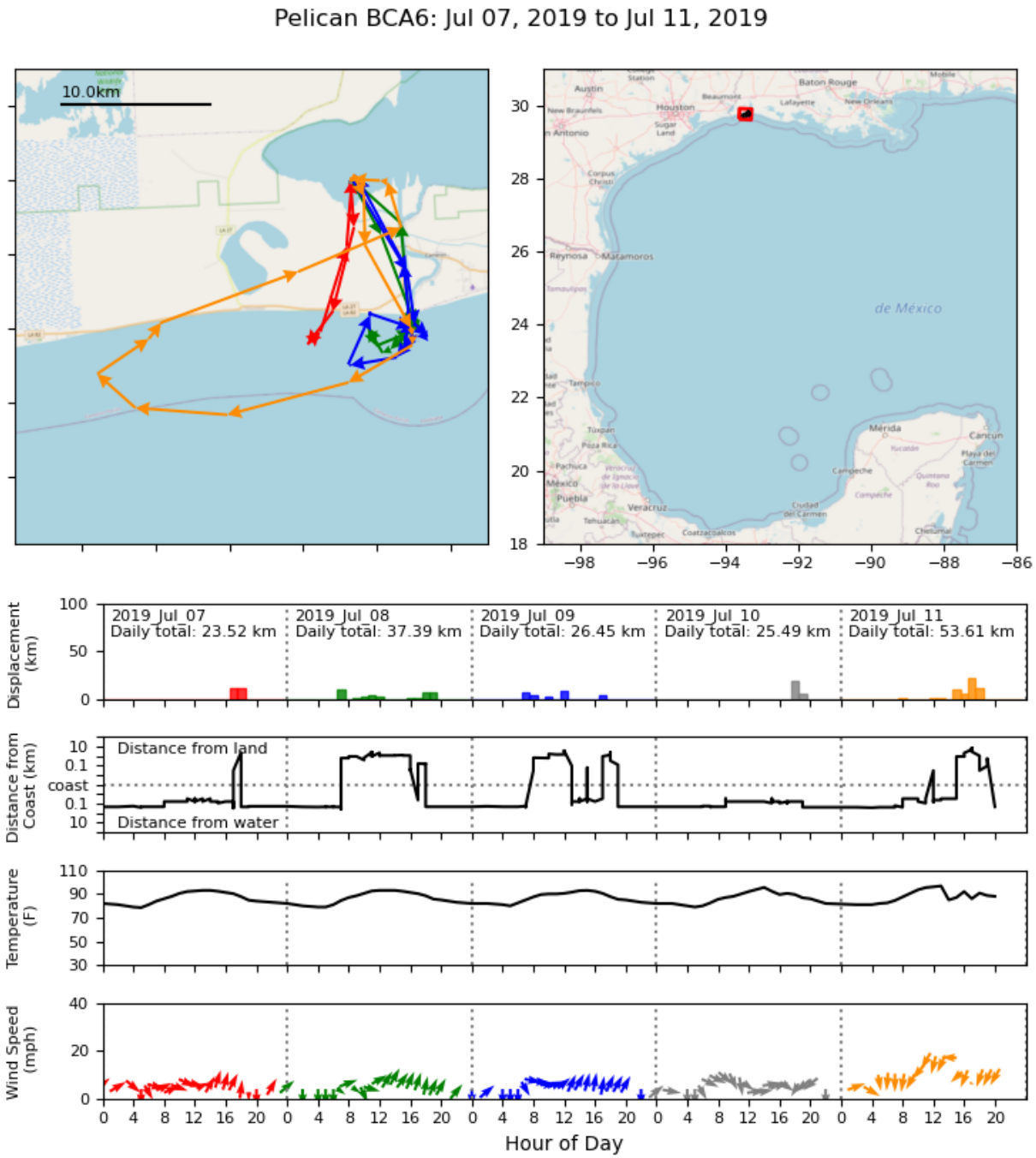

Figure 1142 - Maps and graphs showing movements of BCA6 between 2019-07-07 and 2019-07-10 inclusive.

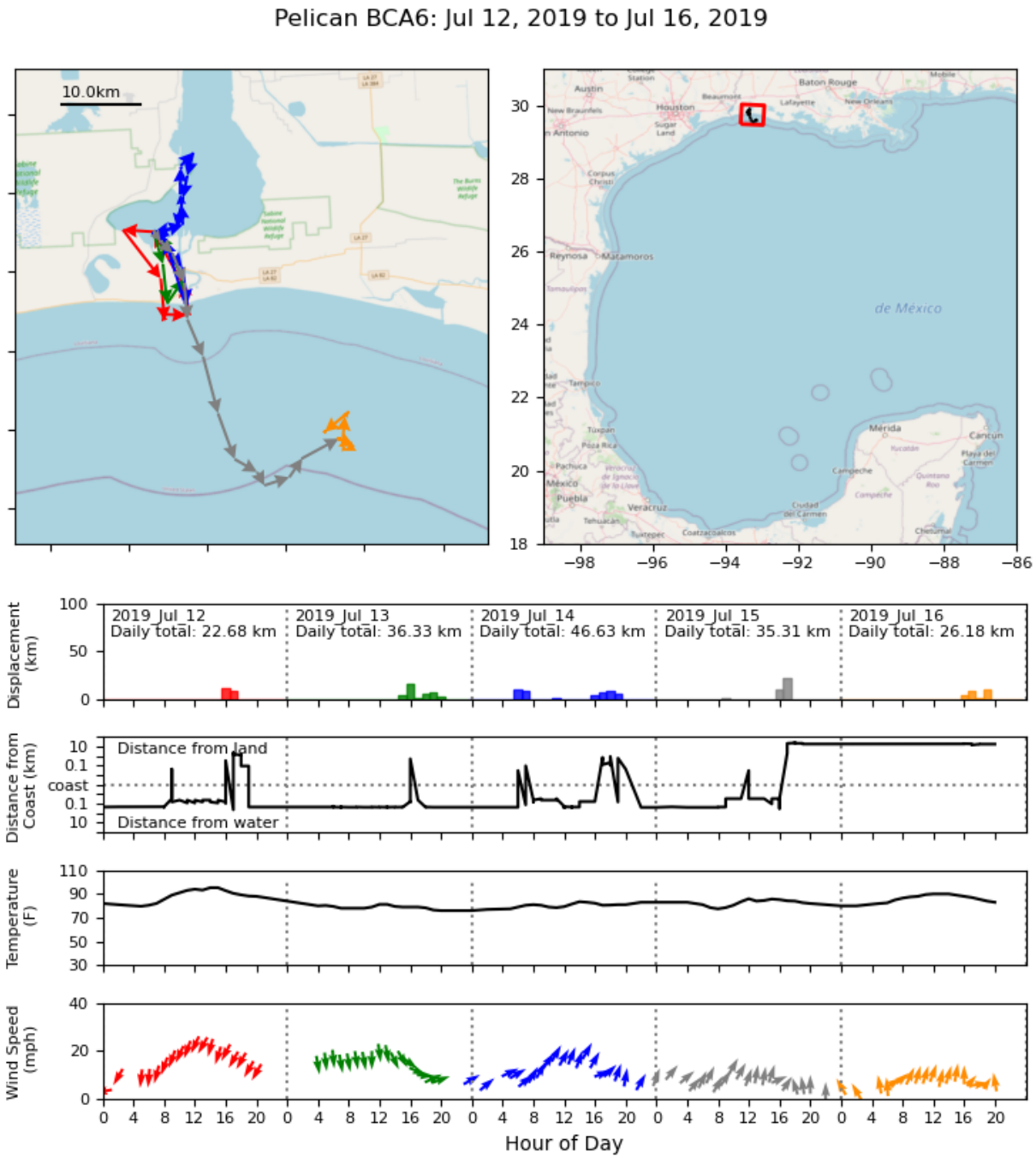

Figure 1143 - Maps and graphs showing movements of BCA6 between 2019-07-12 and 2019-07-15 inclusive.

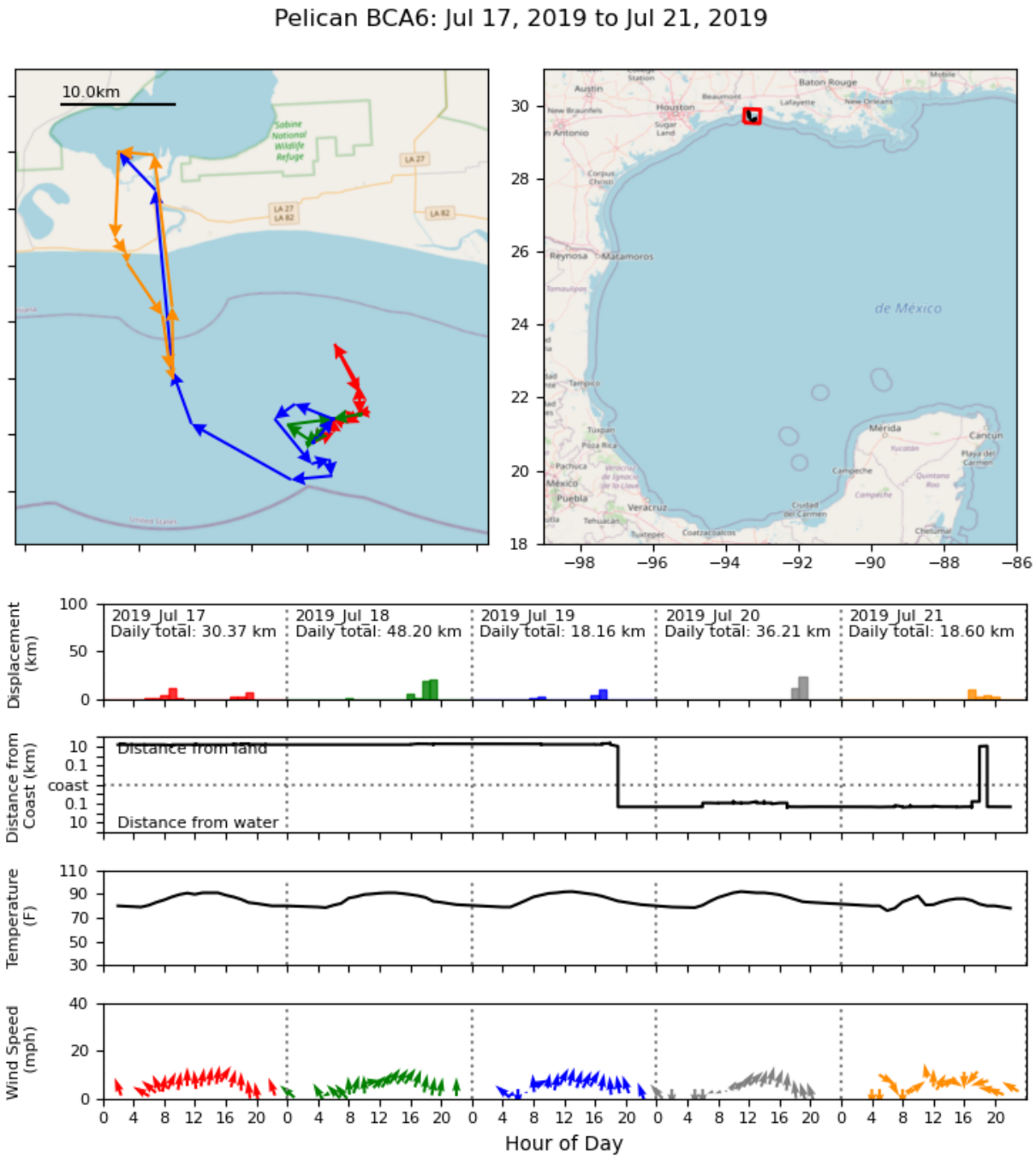

Figure 1144 - Maps and graphs showing movements of BCA6 between 2019-07-17 and 2019-07-20 inclusive.

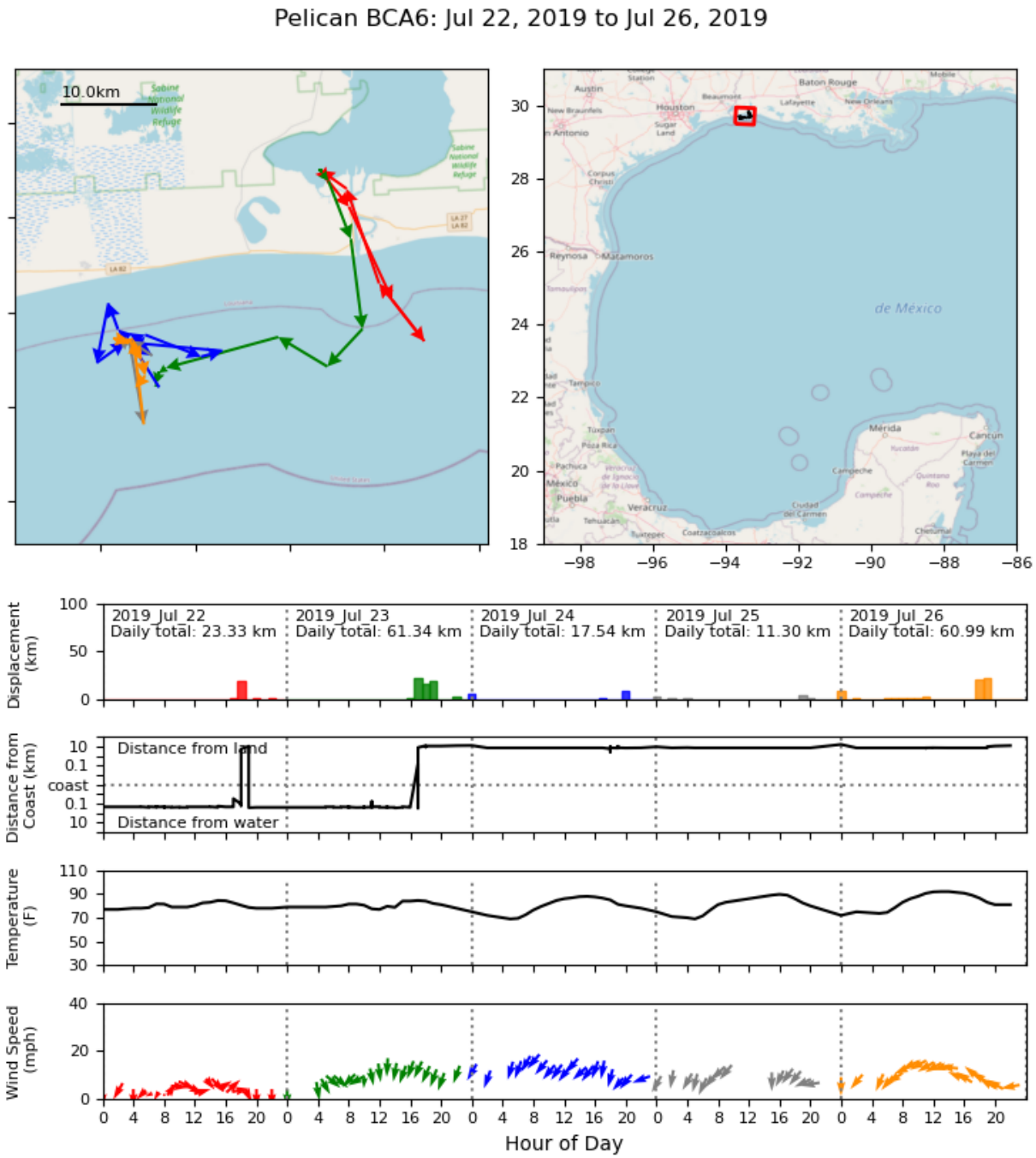

Figure 1145 - Maps and graphs showing movements of BCA6 between 2019-07-22 and 2019-07-25 inclusive.

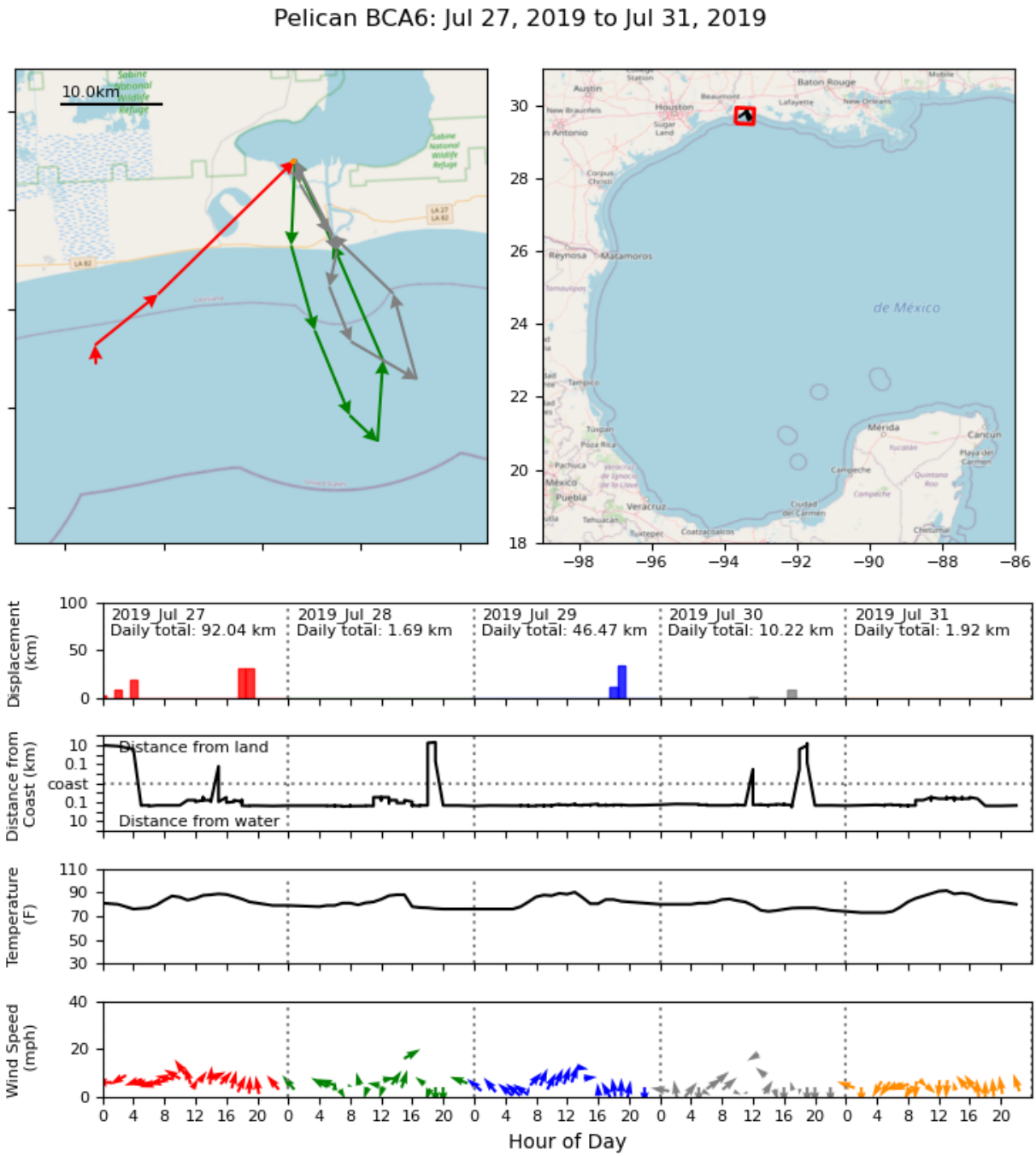

Figure 1146 - Maps and graphs showing movements of BCA6 between 2019-07-27 and 2019-07-30 inclusive.

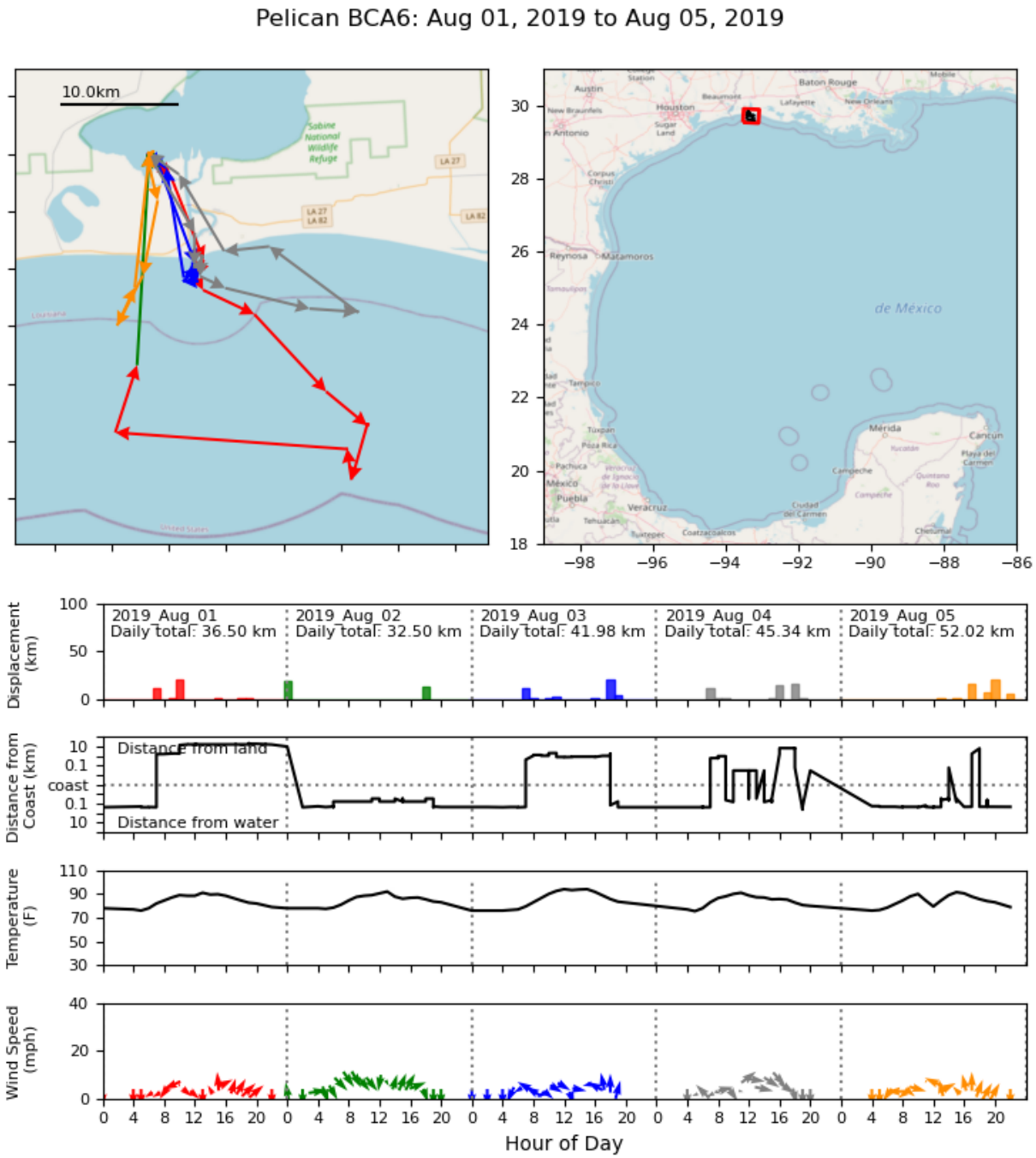

Figure 1147 - Maps and graphs showing movements of BCA6 between 2019-08-01 and 2019-08-04 inclusive.

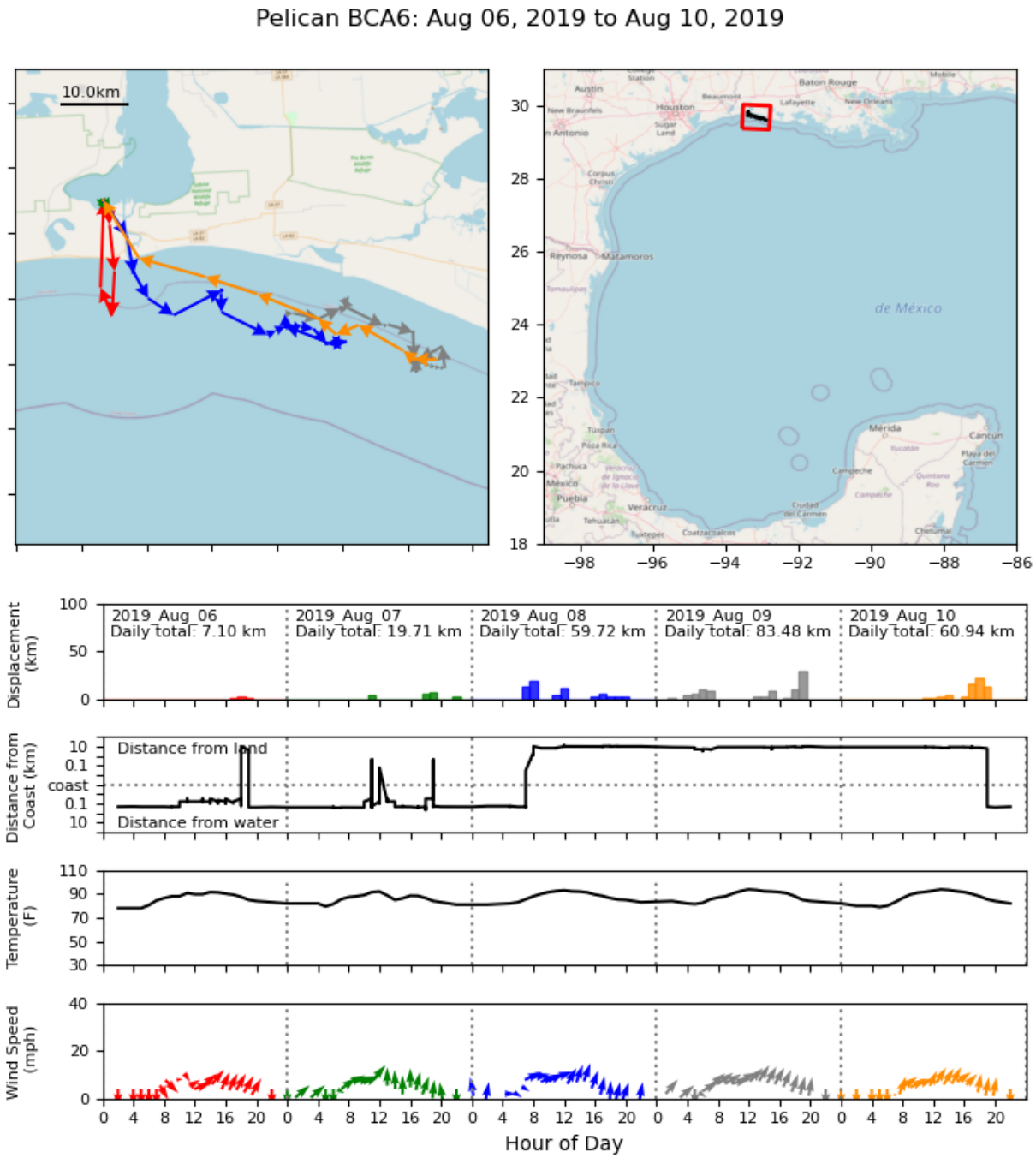

Figure 1148 - Maps and graphs showing movements of BCA6 between 2019-08-06 and 2019-08-09 inclusive.

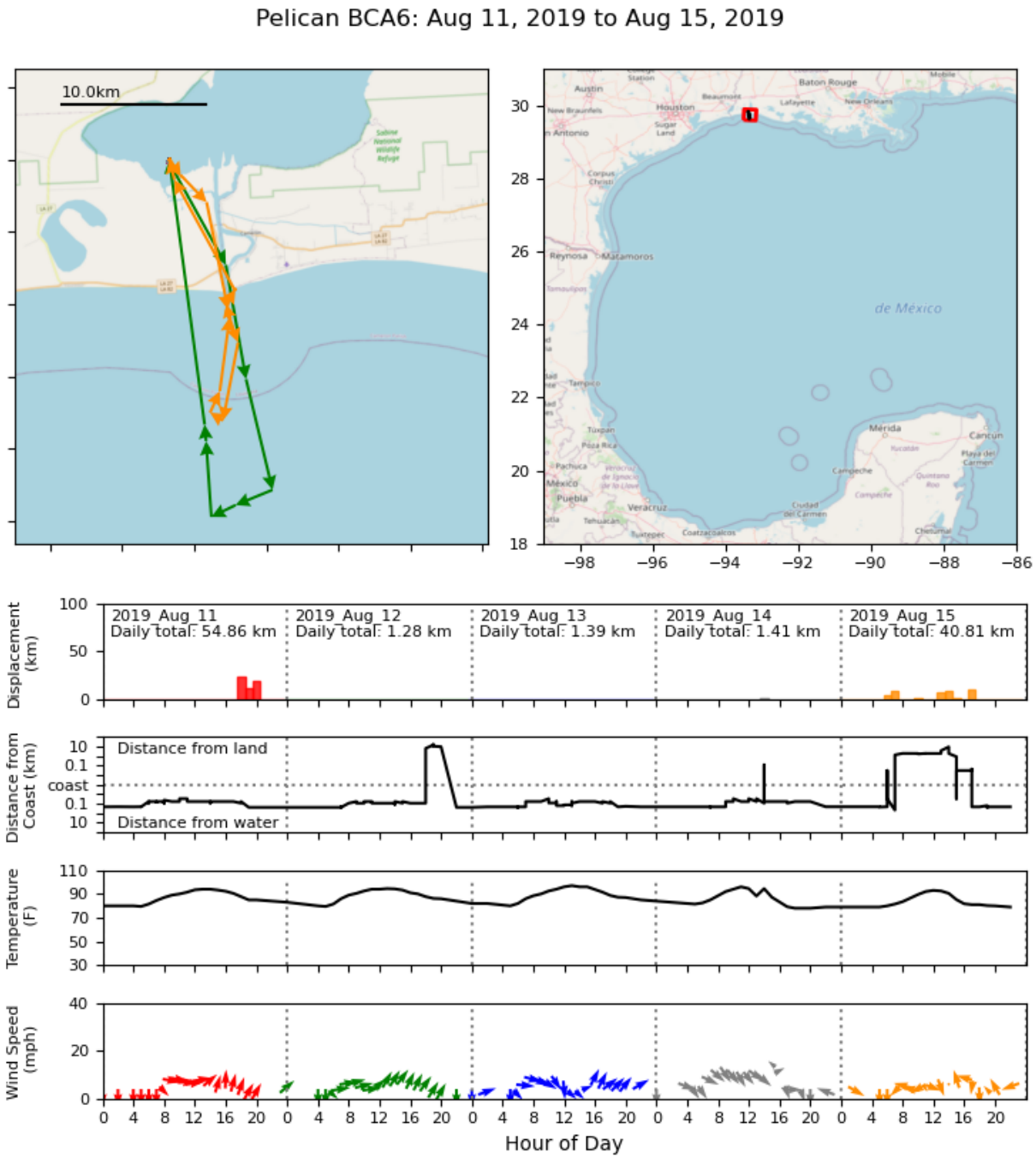

Figure 1149 - Maps and graphs showing movements of BCA6 between 2019-08-11 and 2019-08-14 inclusive.

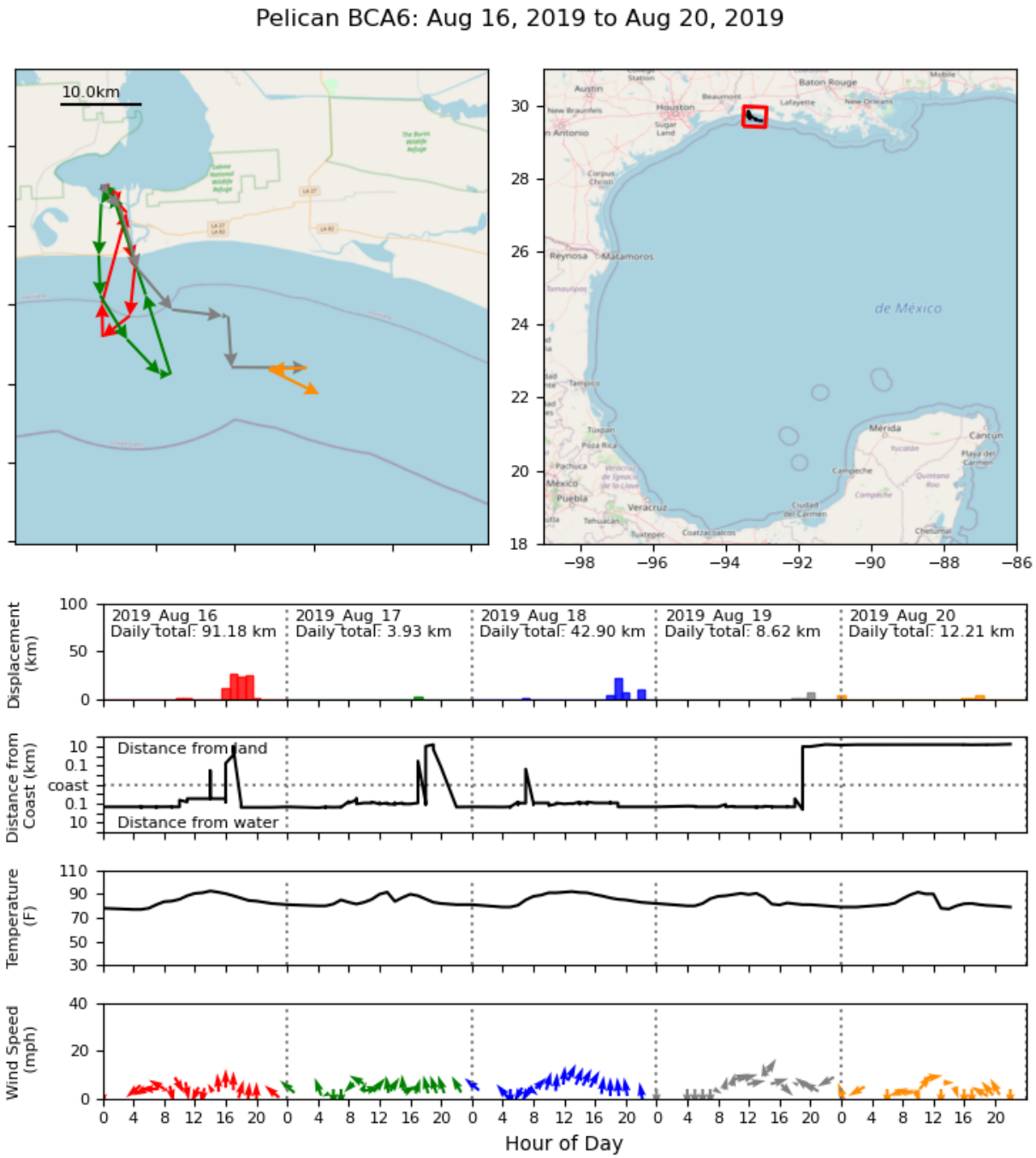

Figure 1150 - Maps and graphs showing movements of BCA6 between 2019-08-16 and 2019-08-19 inclusive.

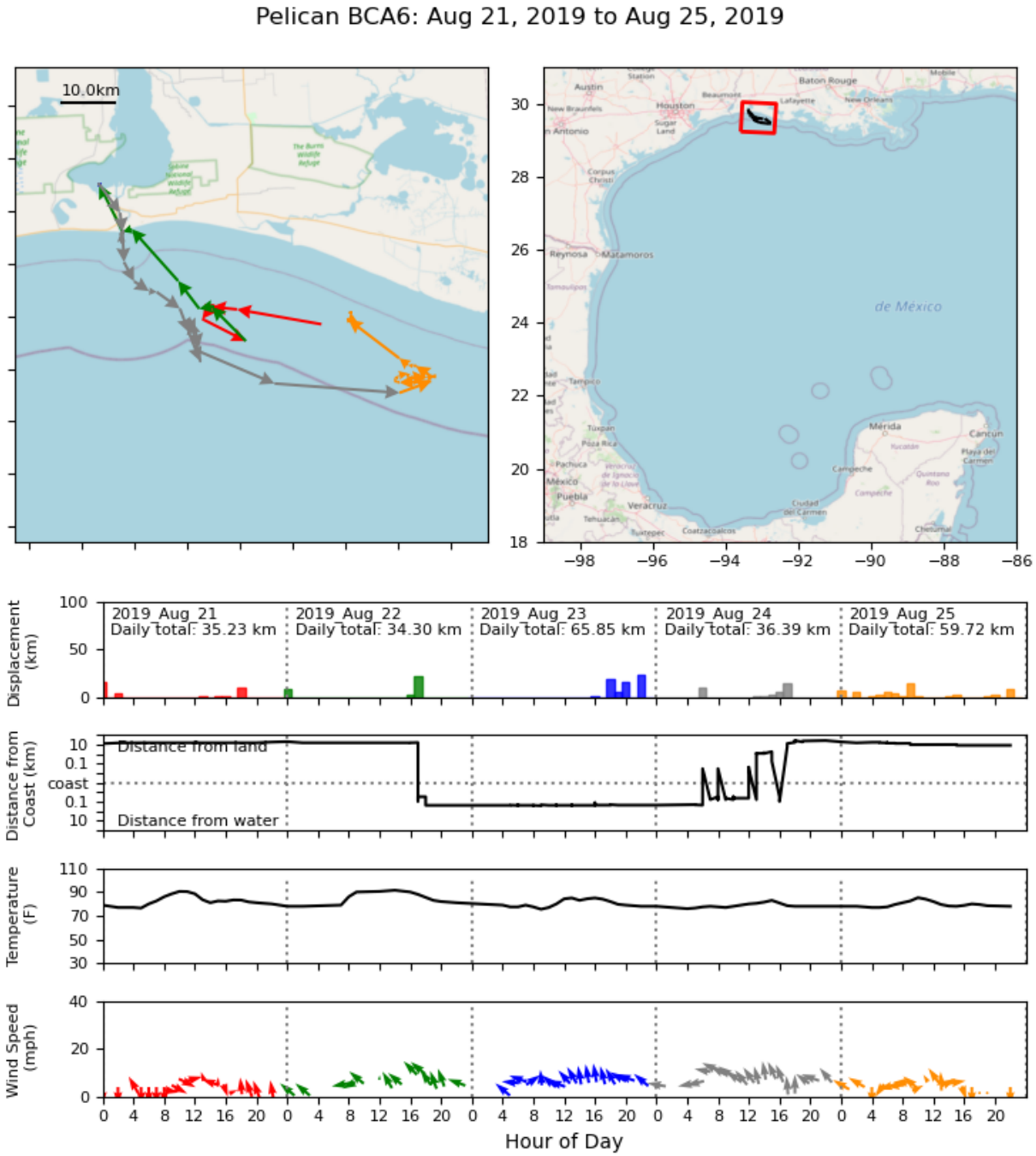

Figure 1151 - Maps and graphs showing movements of BCA6 between 2019-08-21 and 2019-08-24 inclusive.

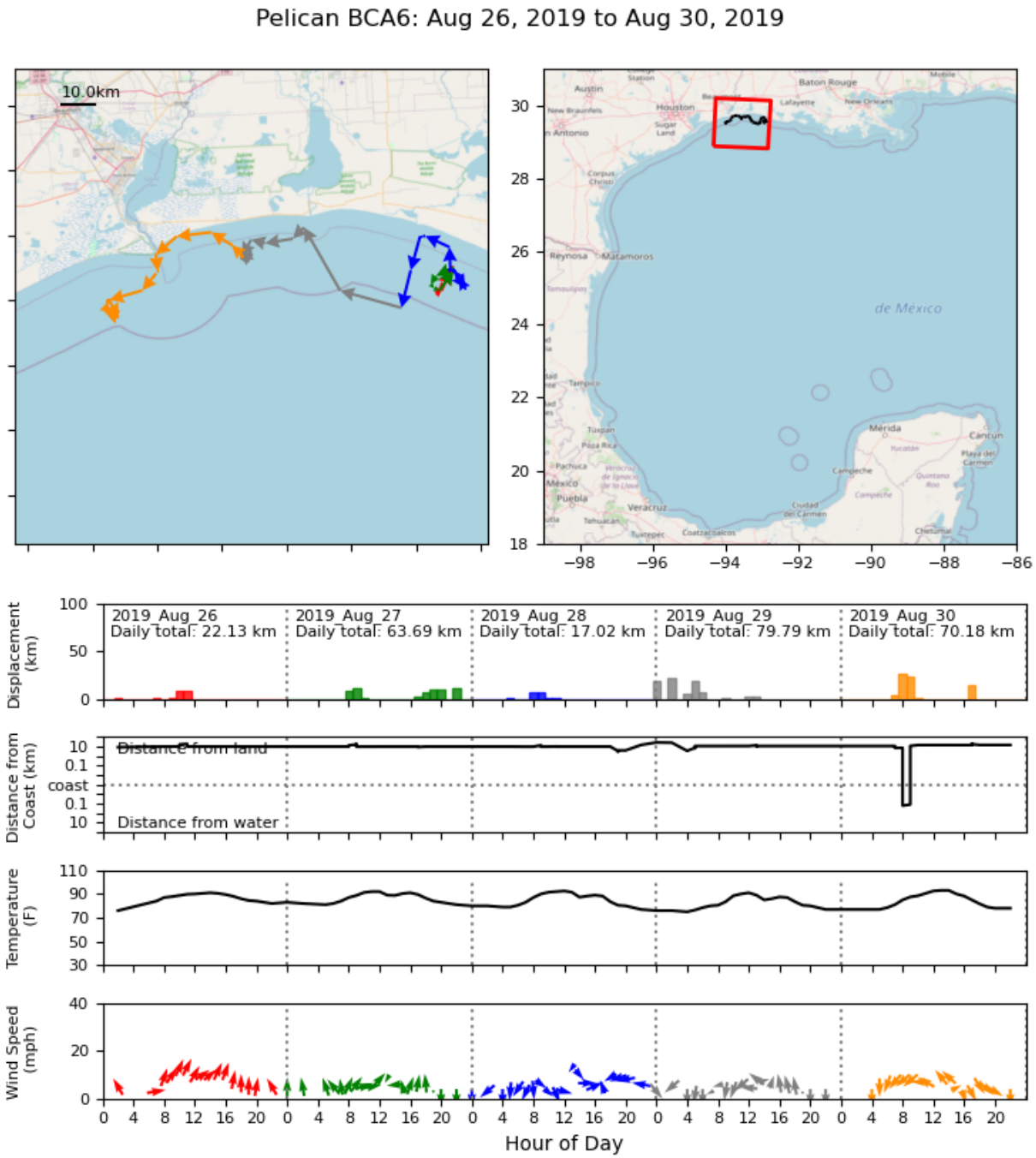

Figure 1152 - Maps and graphs showing movements of BCA6 between 2019-08-26 and 2019-08-29 inclusive.

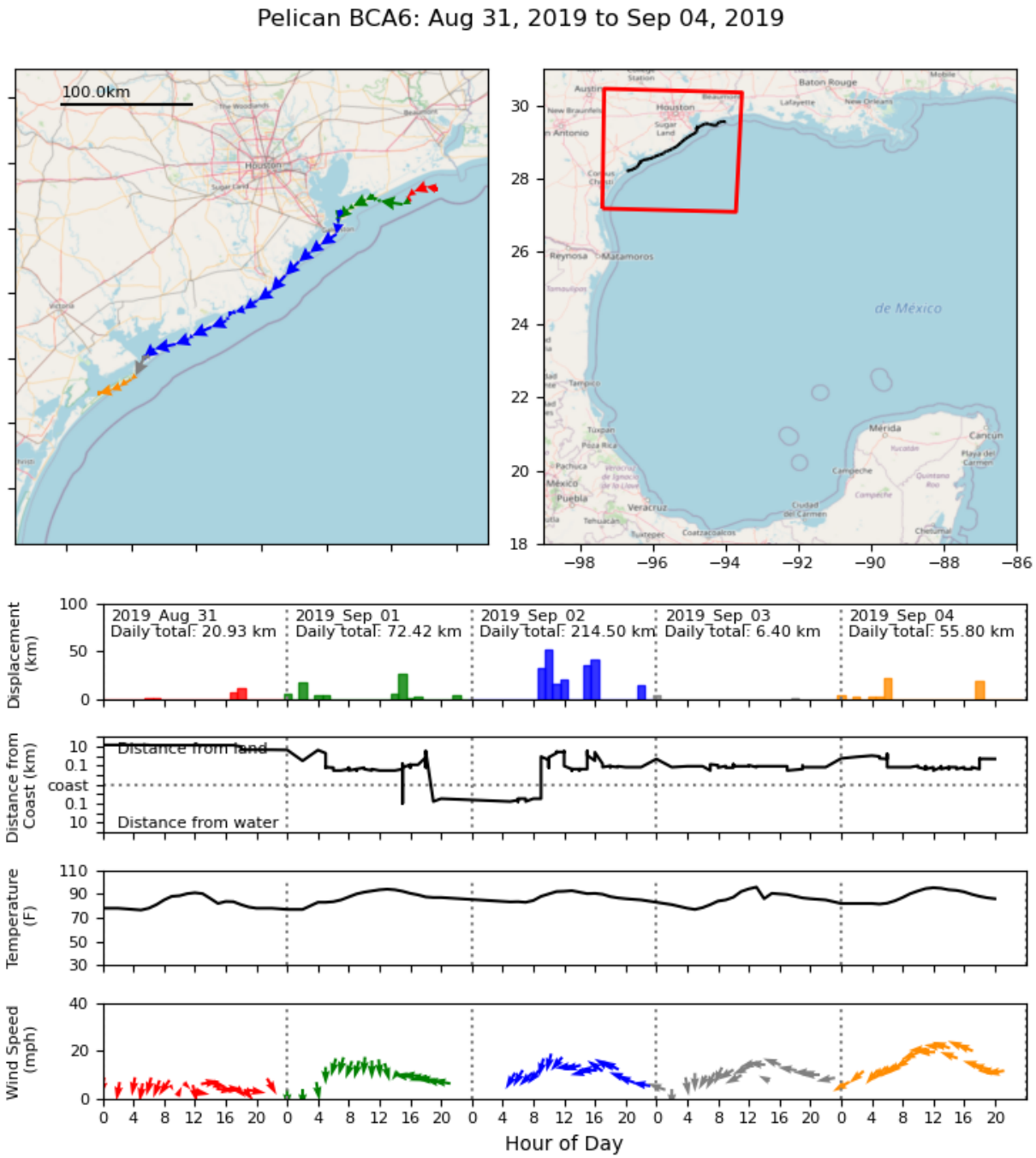

Figure 1153 - Maps and graphs showing movements of BCA6 between 2019-08-31 and 2019-09-03 inclusive.

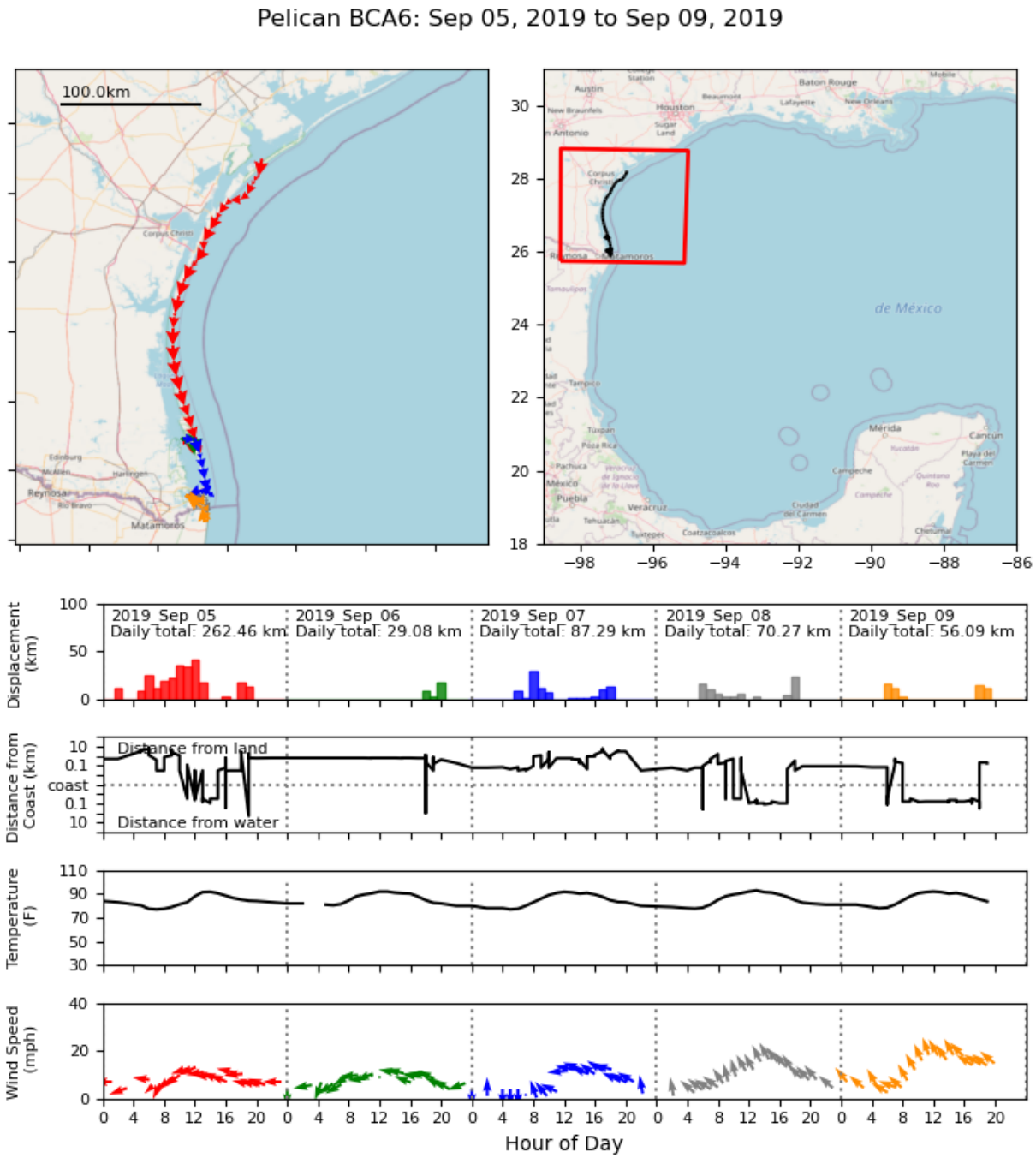

Figure 1154 - Maps and graphs showing movements of BCA6 between 2019-09-05 and 2019-09-08 inclusive.

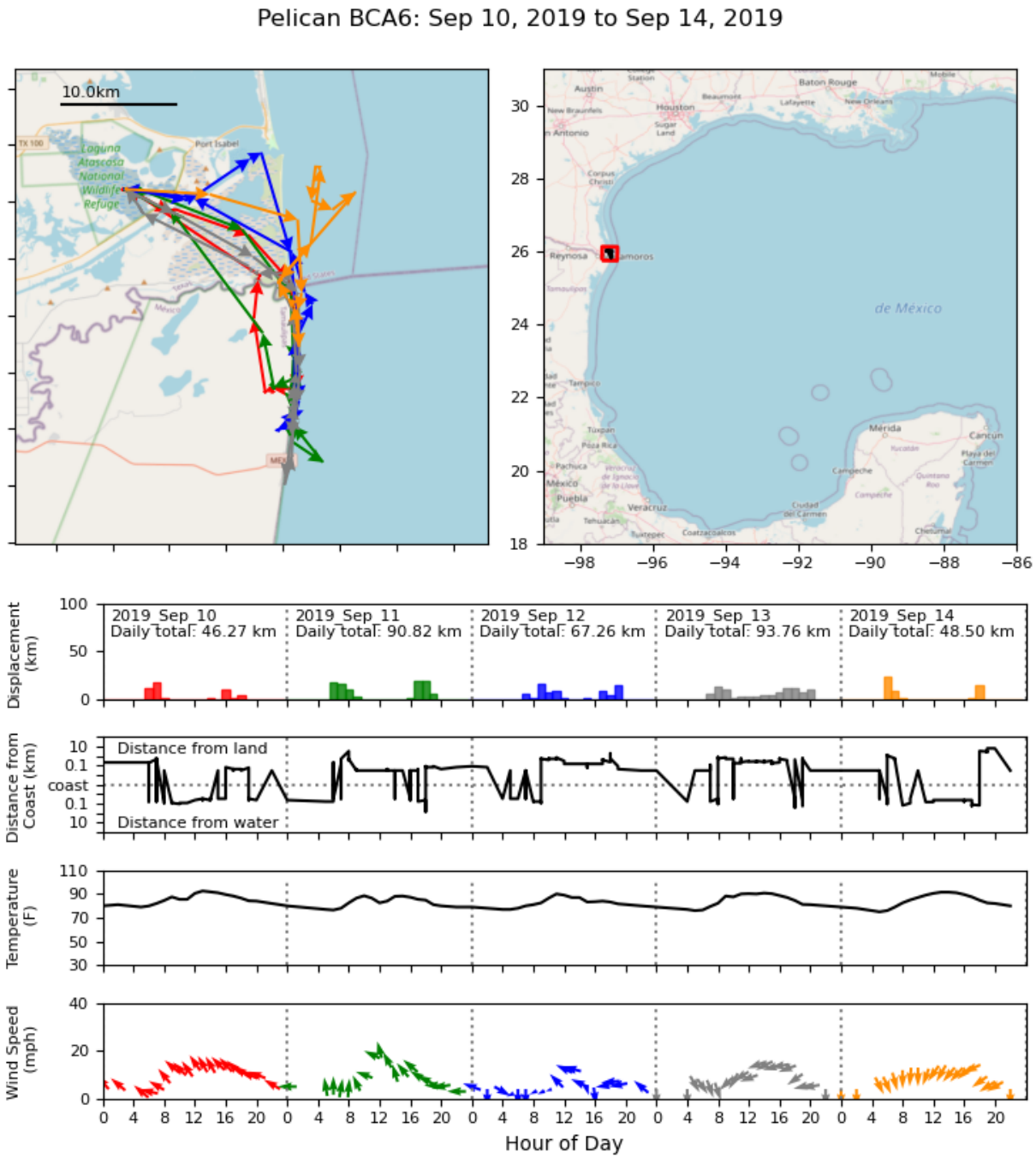

Figure 1155 - Maps and graphs showing movements of BCA6 between 2019-09-10 and 2019-09-13 inclusive.

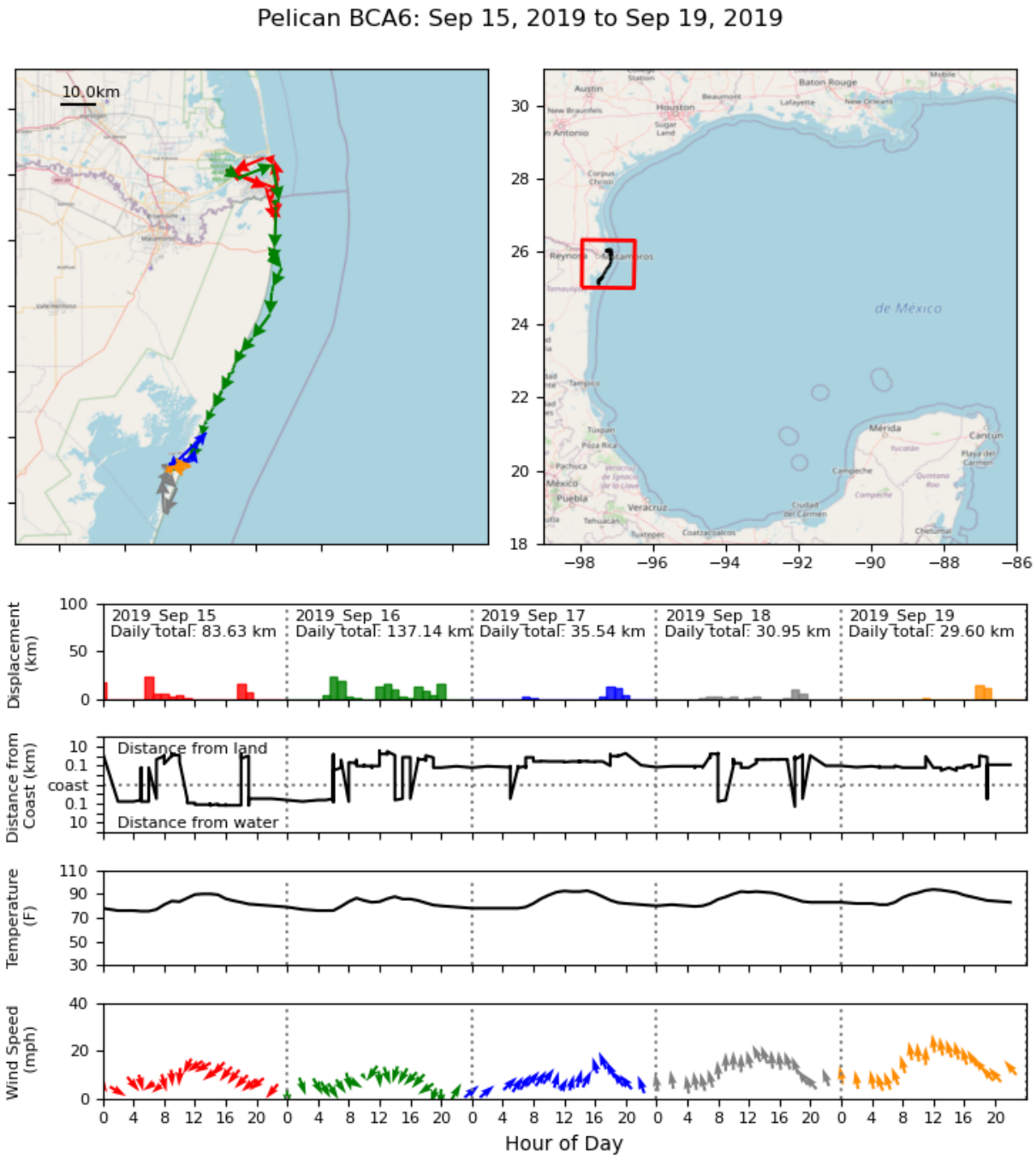

Figure 1156 - Maps and graphs showing movements of BCA6 between 2019-09-15 and 2019-09-18 inclusive.

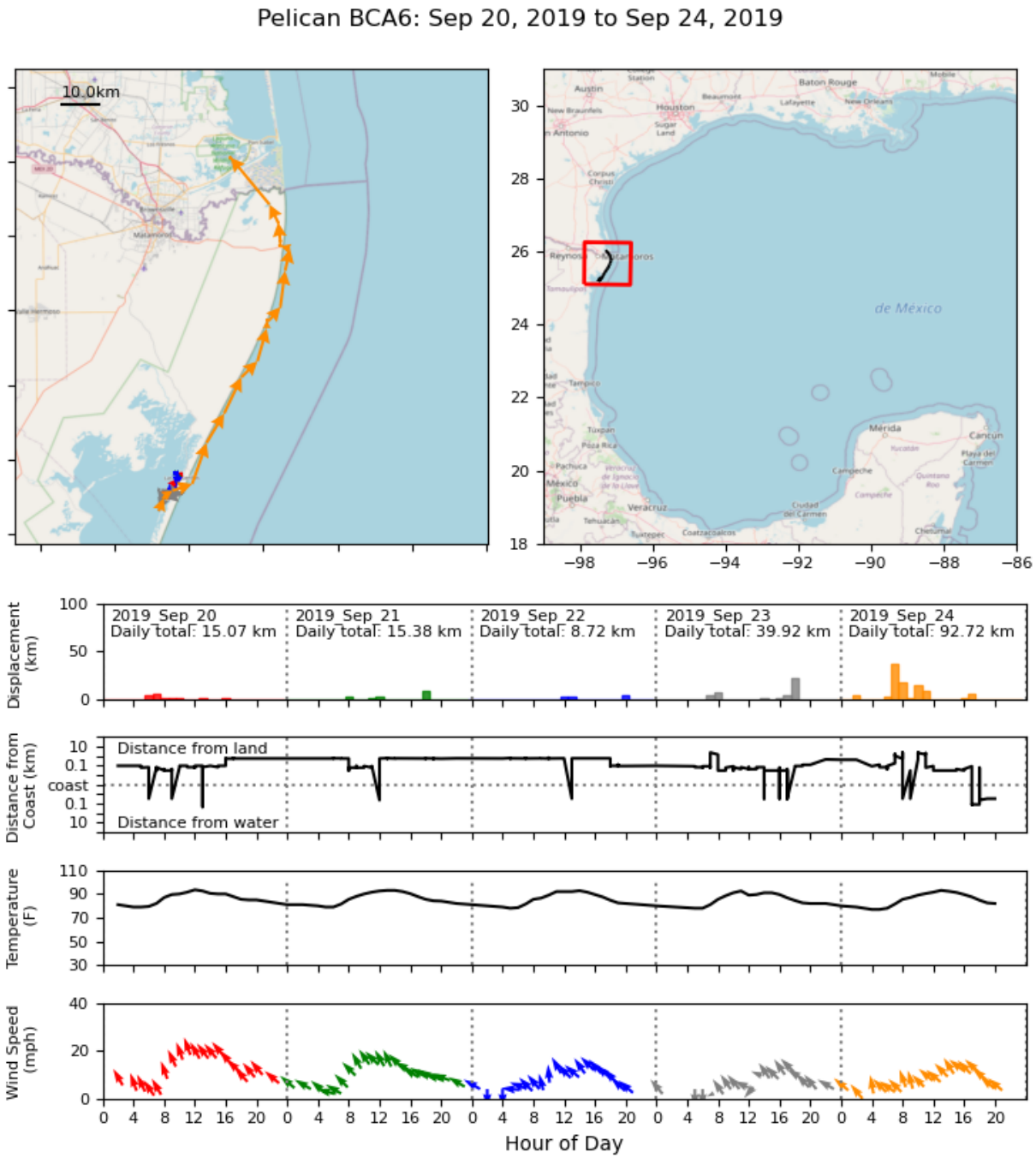

Figure 1157 - Maps and graphs showing movements of BCA6 between 2019-09-20 and 2019-09-23 inclusive.

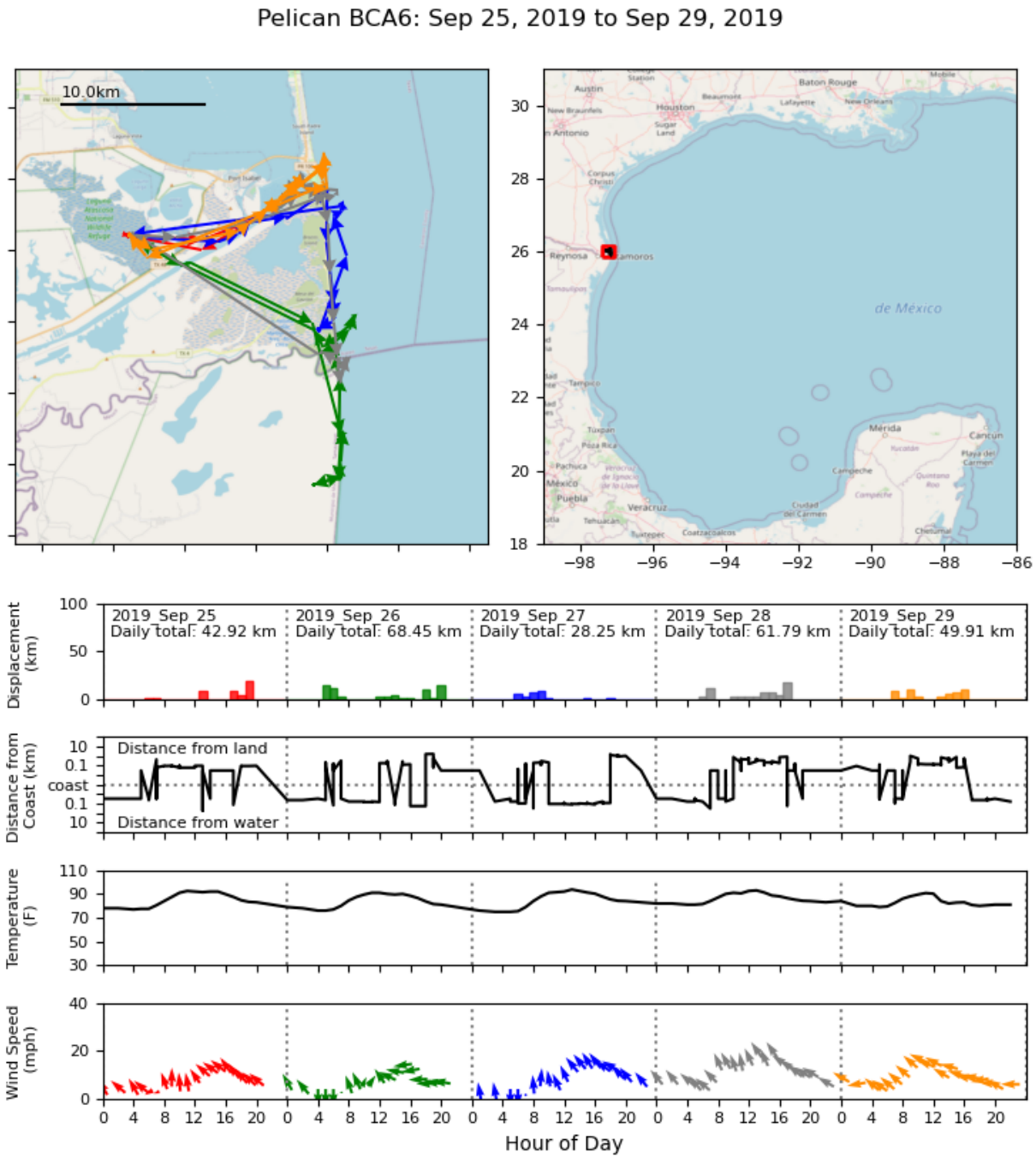

Figure 1158 - Maps and graphs showing movements of BCA6 between 2019-09-25 and 2019-09-28 inclusive.

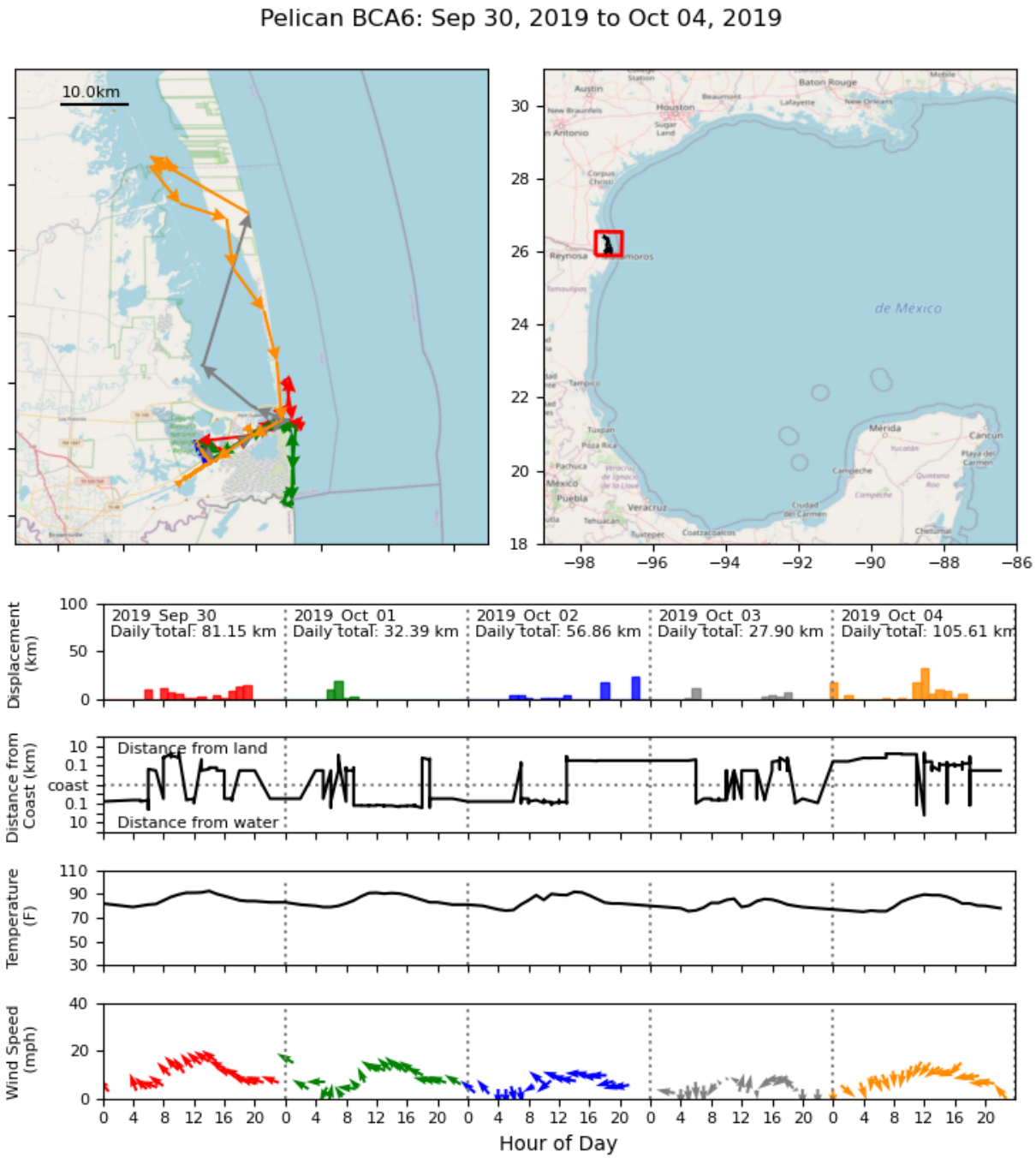

Figure 1159 - Maps and graphs showing movements of BCA6 between 2019-09-30 and 2019-10-03 inclusive.

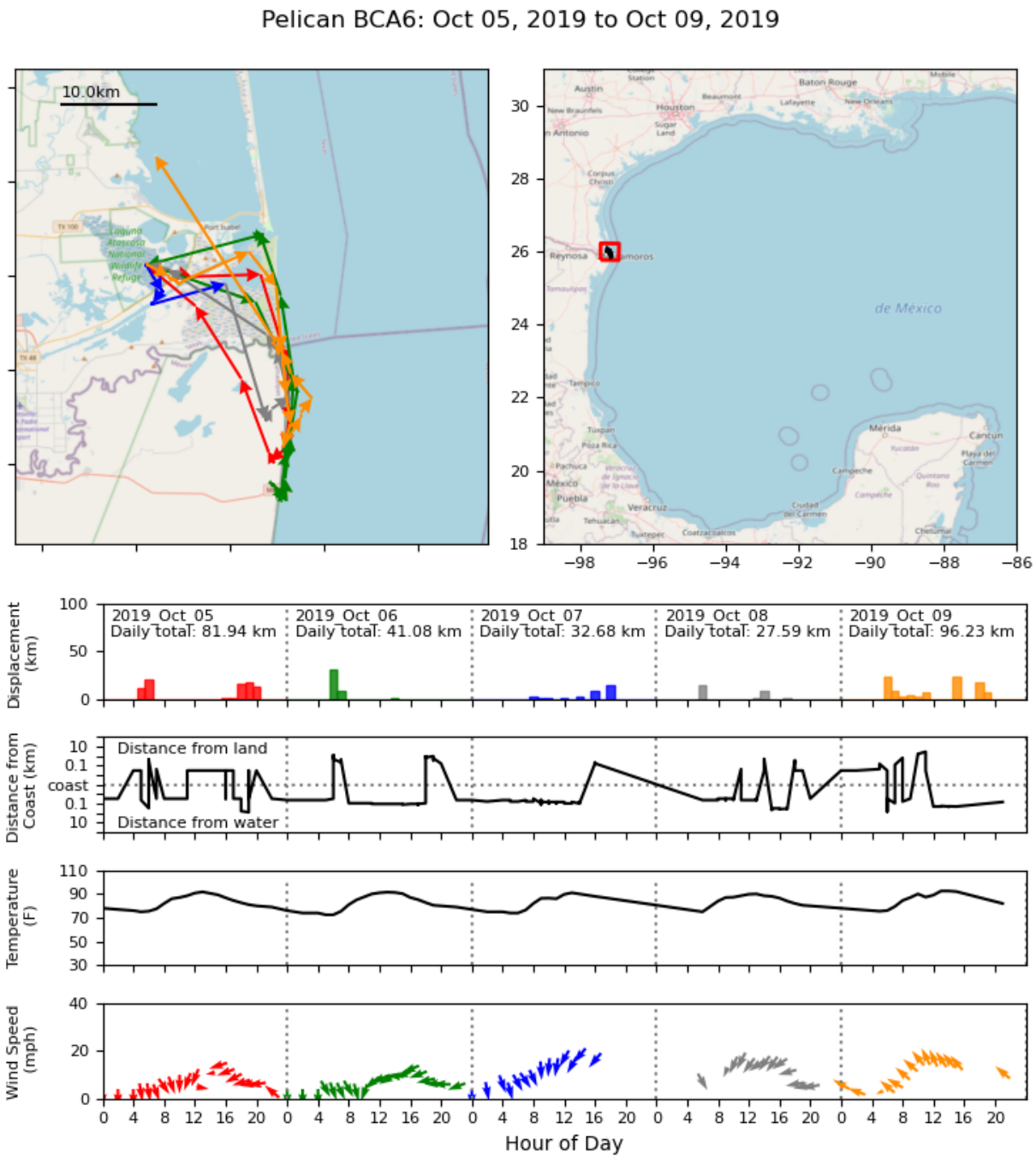

Figure 1160 - Maps and graphs showing movements of BCA6 between 2019-10-05 and 2019-10-08 inclusive.

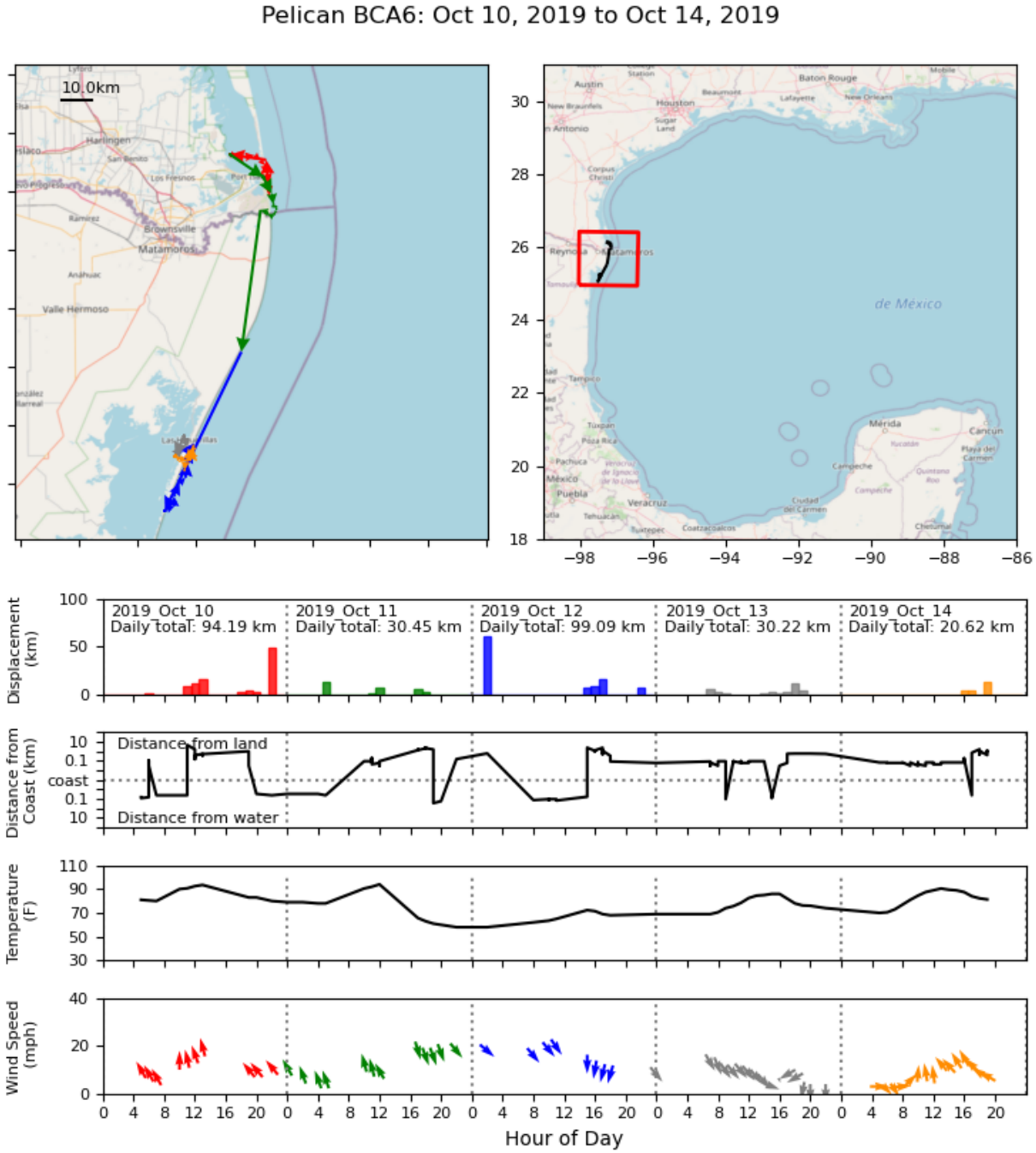

Figure 1161 - Maps and graphs showing movements of BCA6 between 2019-10-10 and 2019-10-13 inclusive.

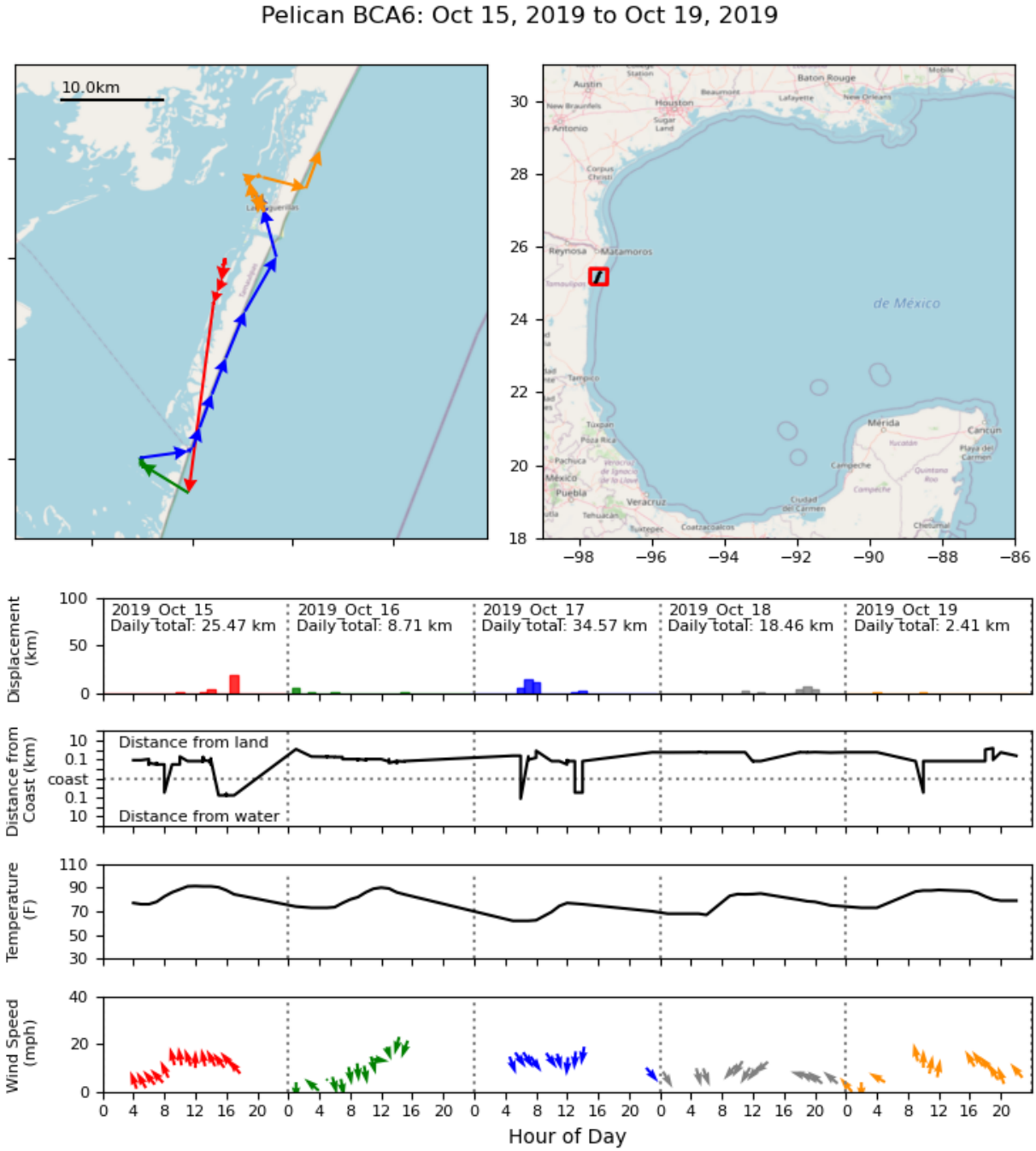

Figure 1162 - Maps and graphs showing movements of BCA6 between 2019-10-15 and 2019-10-18 inclusive.

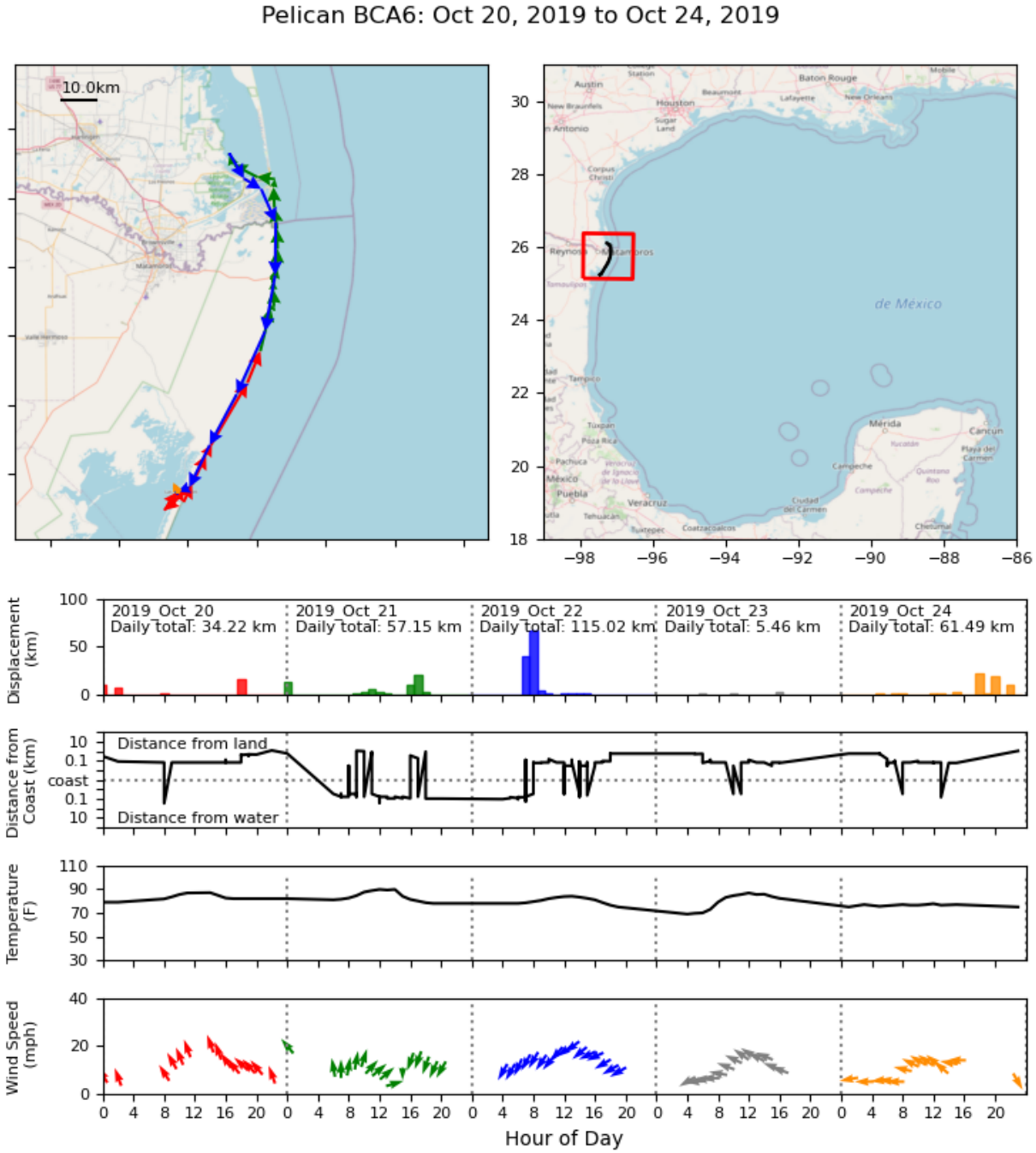

Figure 1163 - Maps and graphs showing movements of BCA6 between 2019-10-20 and 2019-10-23 inclusive.

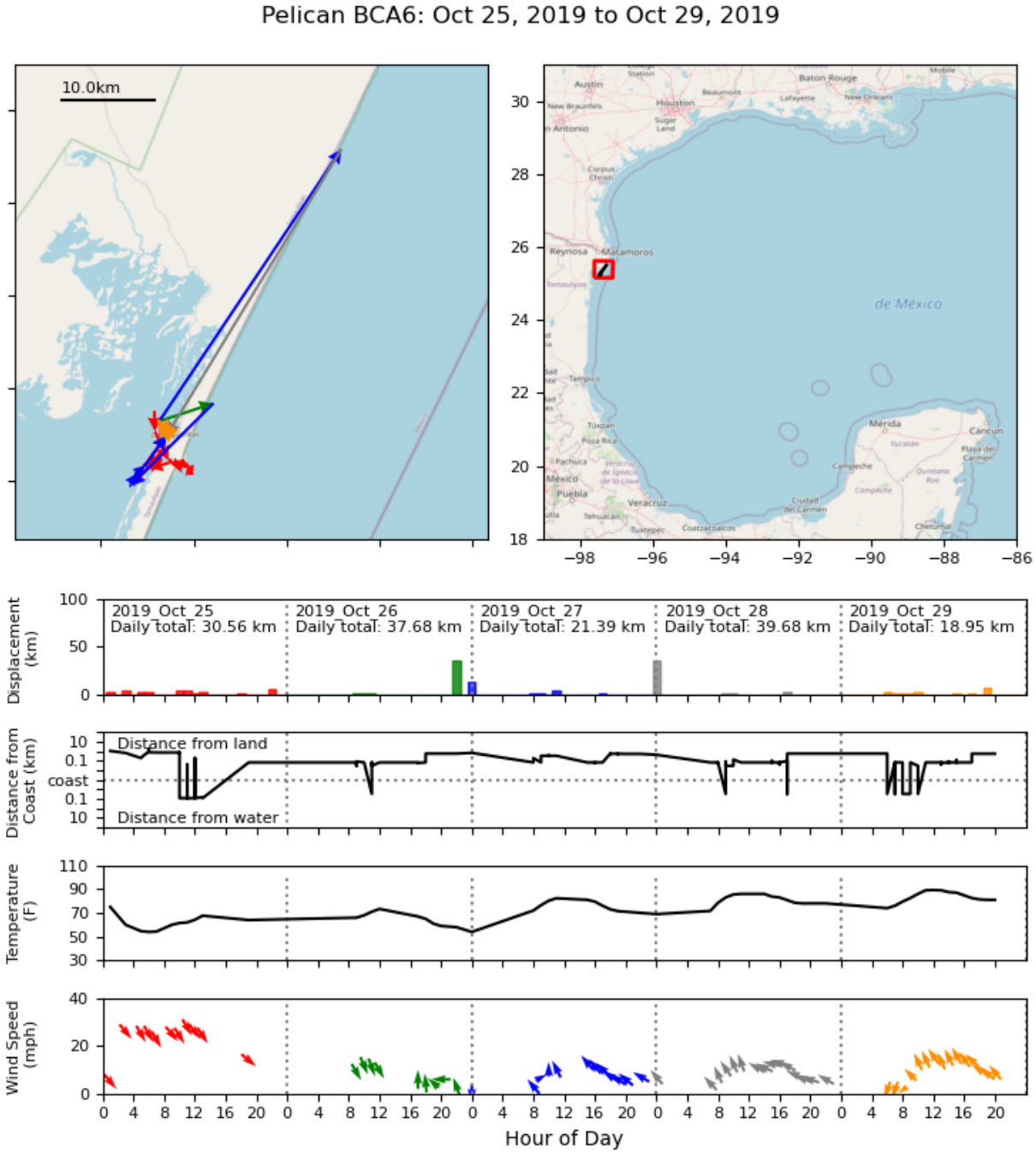

Figure 1164 - Maps and graphs showing movements of BCA6 between 2019-10-25 and 2019-10-28 inclusive.

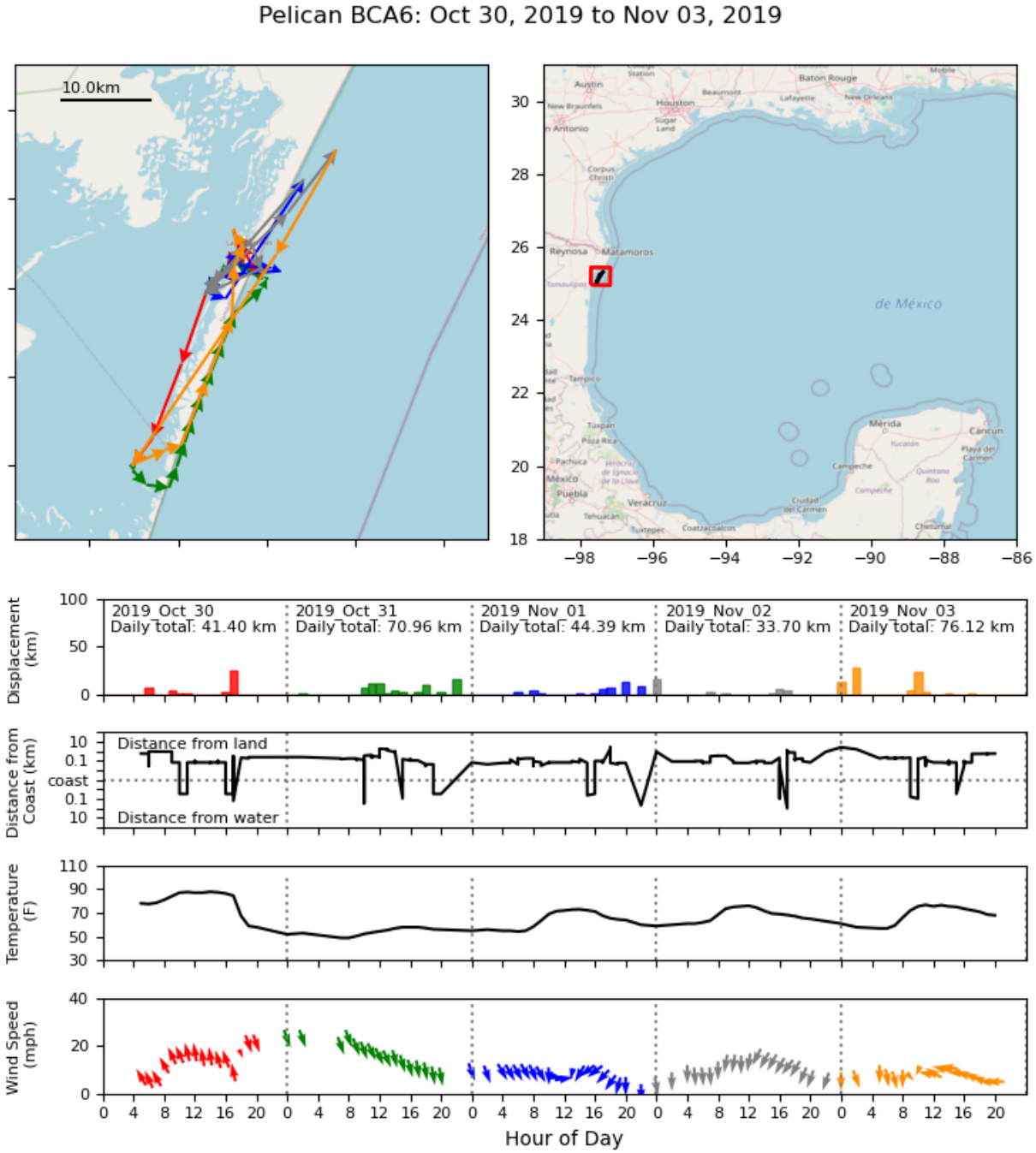

Figure 1165 - Maps and graphs showing movements of BCA6 between 2019-10-30 and 2019-11-02 inclusive.

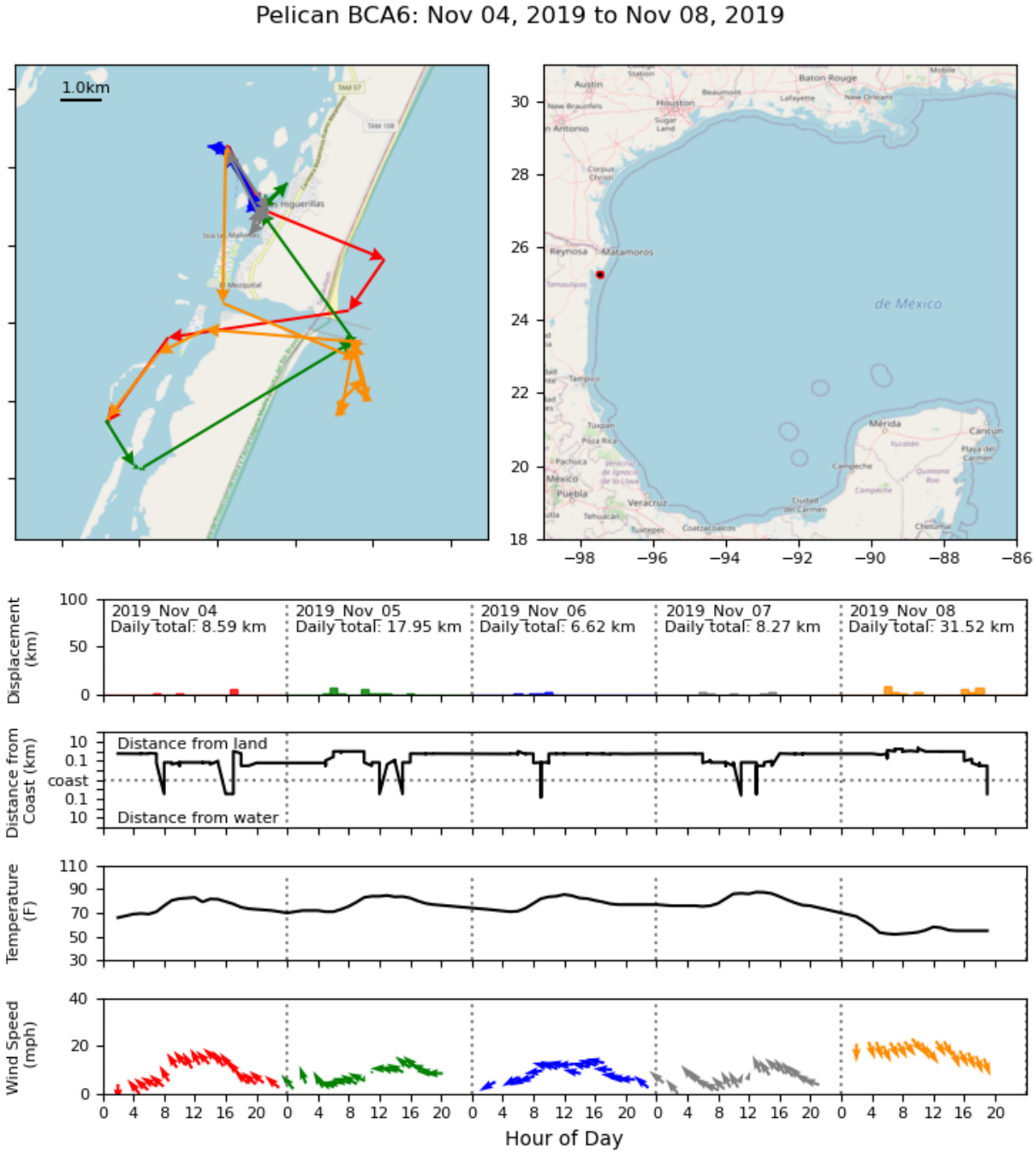

Figure 1166 - Maps and graphs showing movements of BCA6 between 2019-11-04 and 2019-11-07 inclusive.

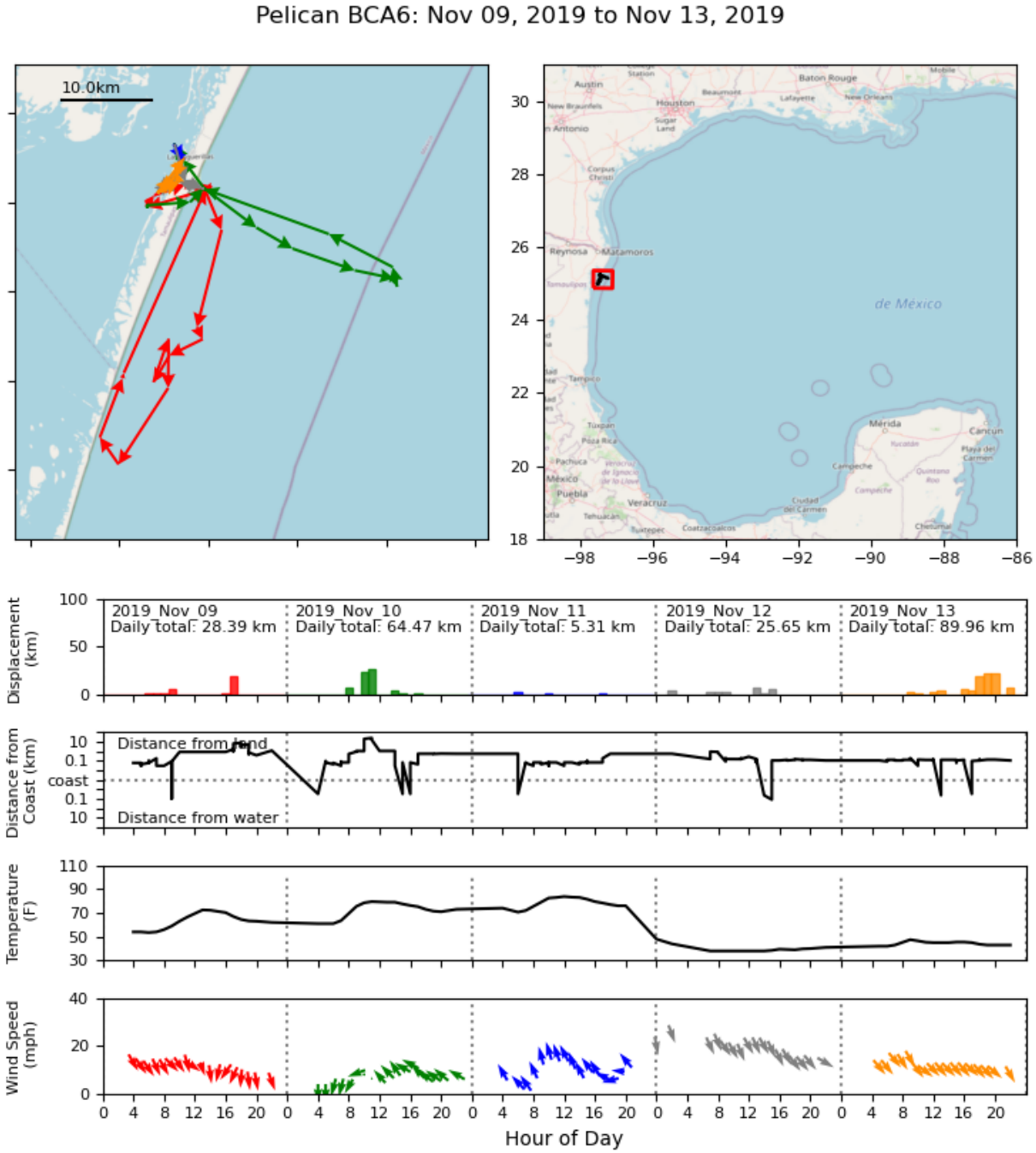

Figure 1167 - Maps and graphs showing movements of BCA6 between 2019-11-09 and 2019-11-12 inclusive.

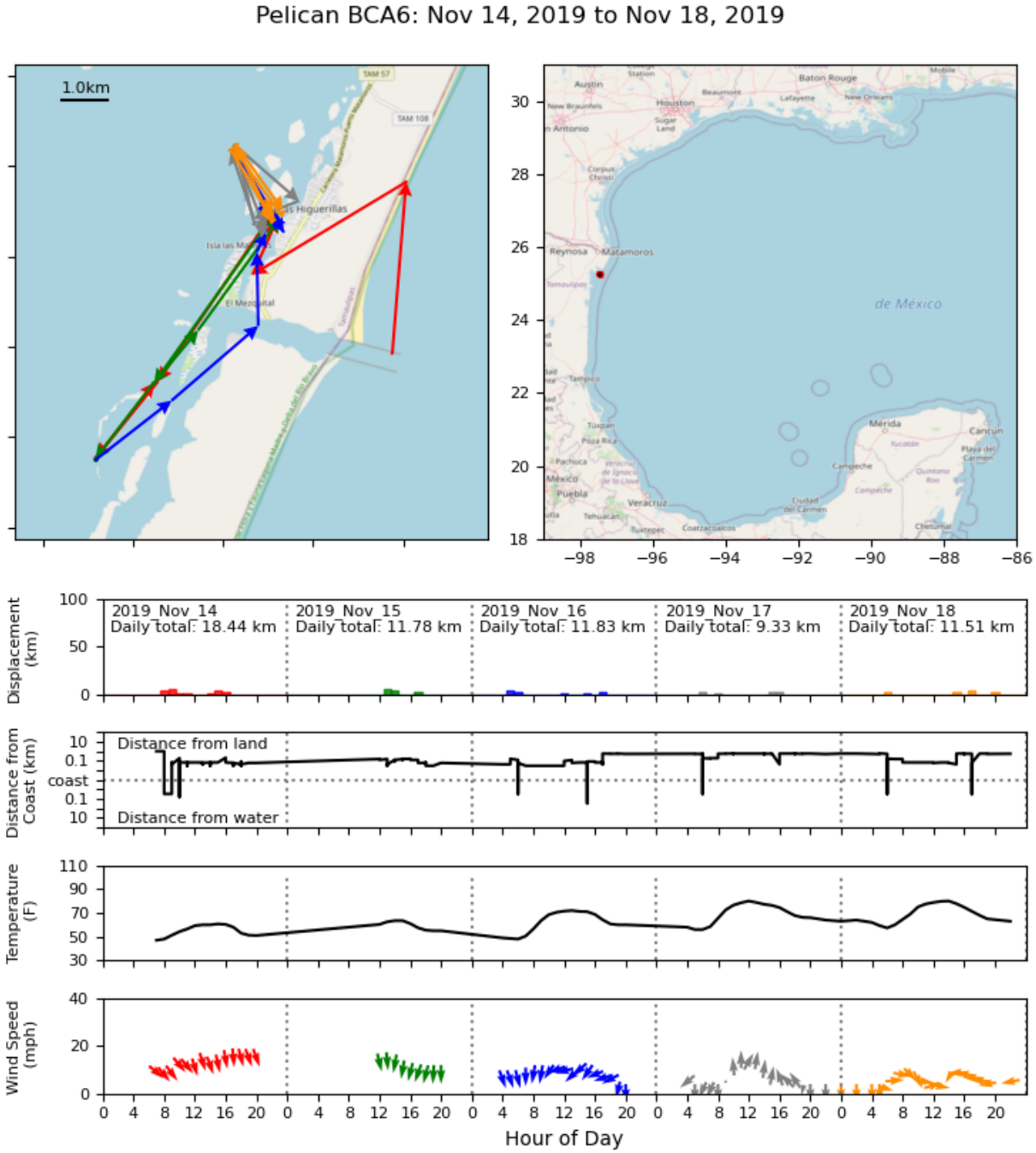

Figure 1168 - Maps and graphs showing movements of BCA6 between 2019-11-14 and 2019-11-17 inclusive.

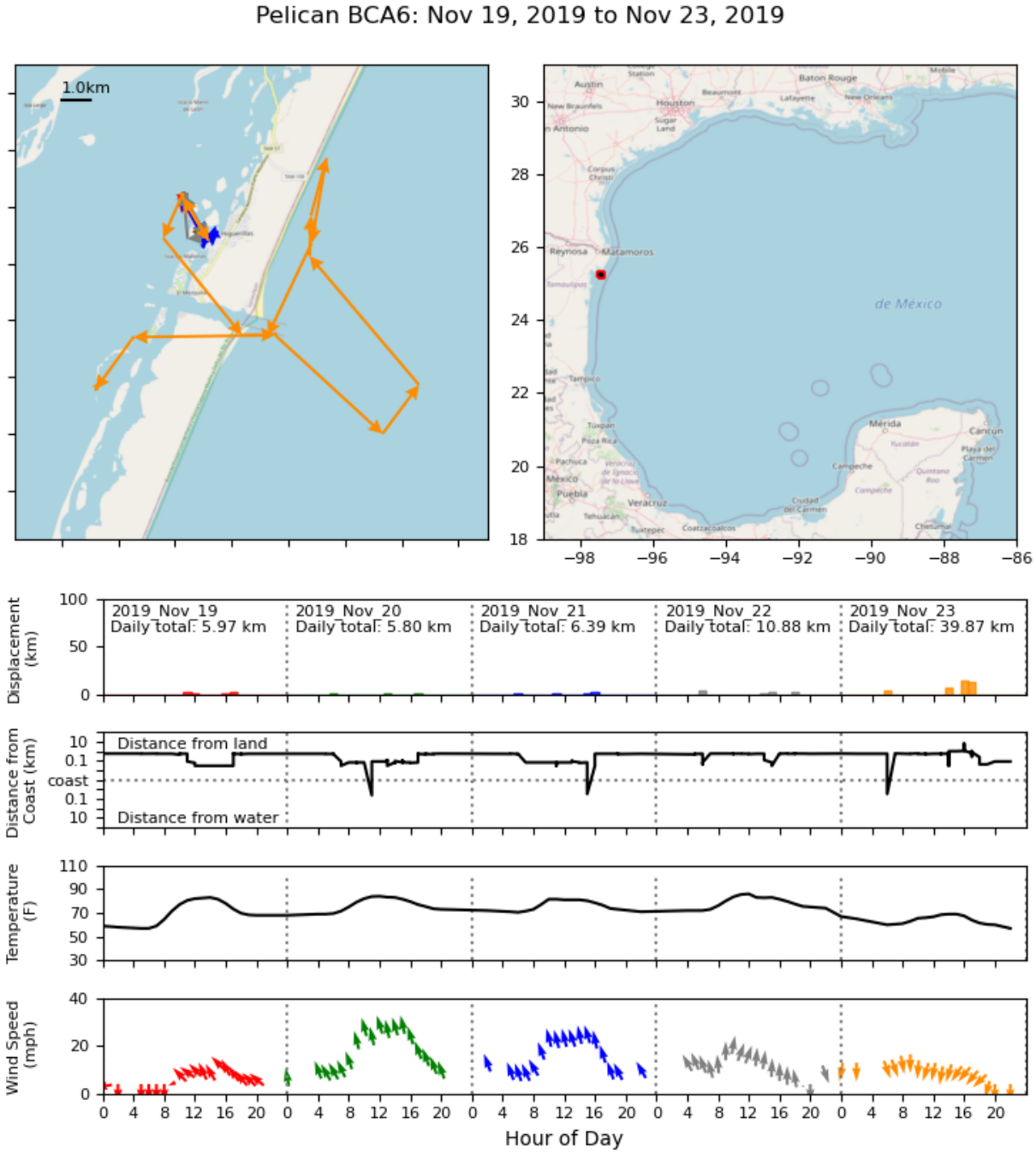

Figure 1169 - Maps and graphs showing movements of BCA6 between 2019-11-19 and 2019-11-22 inclusive.

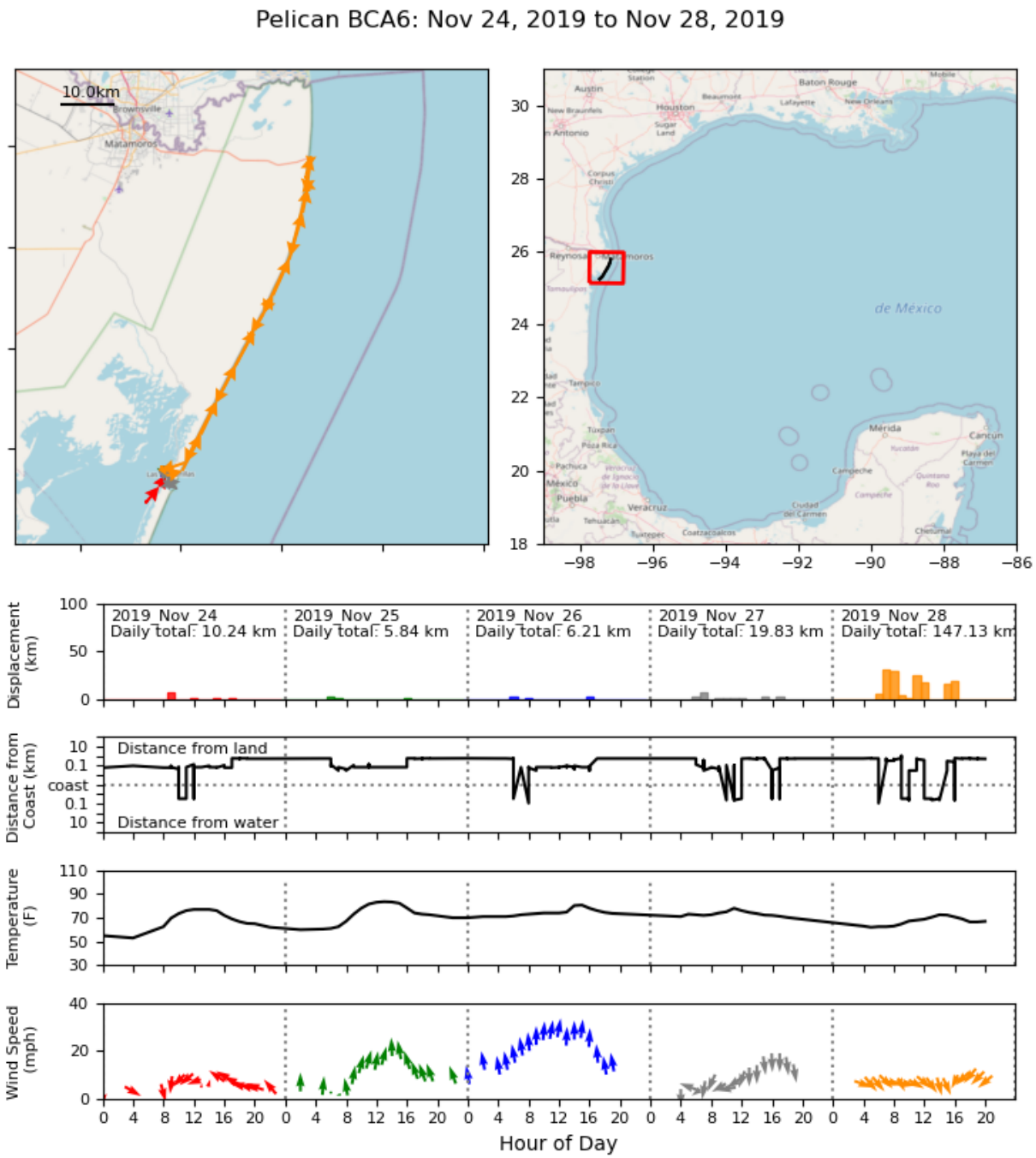

Figure 1170 - Maps and graphs showing movements of BCA6 between 2019-11-24 and 2019-11-27 inclusive.

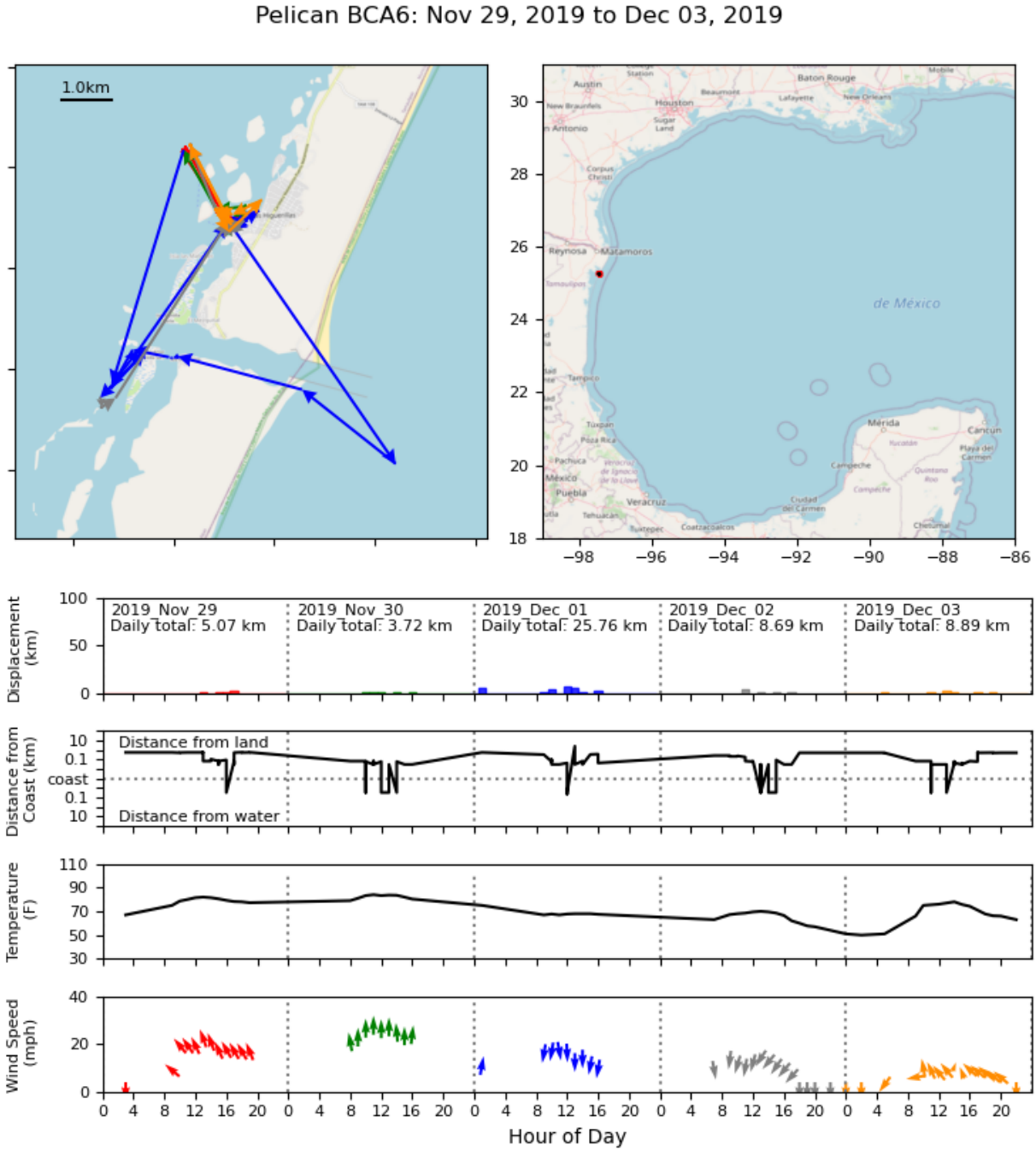

Figure 1171 - Maps and graphs showing movements of BCA6 between 2019-11-29 and 2019-12-02 inclusive.

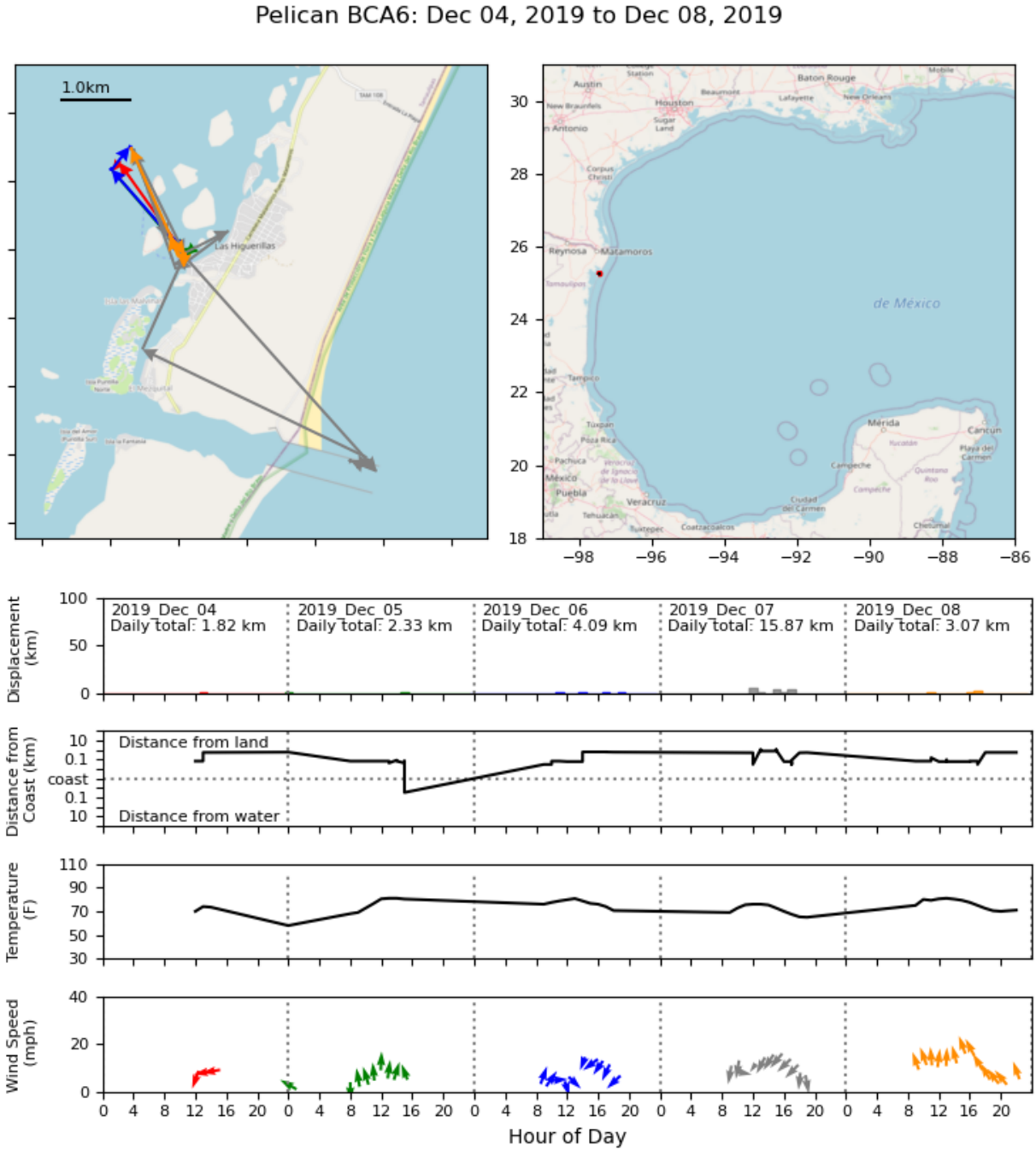

Figure 1172 - Maps and graphs showing movements of BCA6 between 2019-12-04 and 2019-12-07 inclusive.

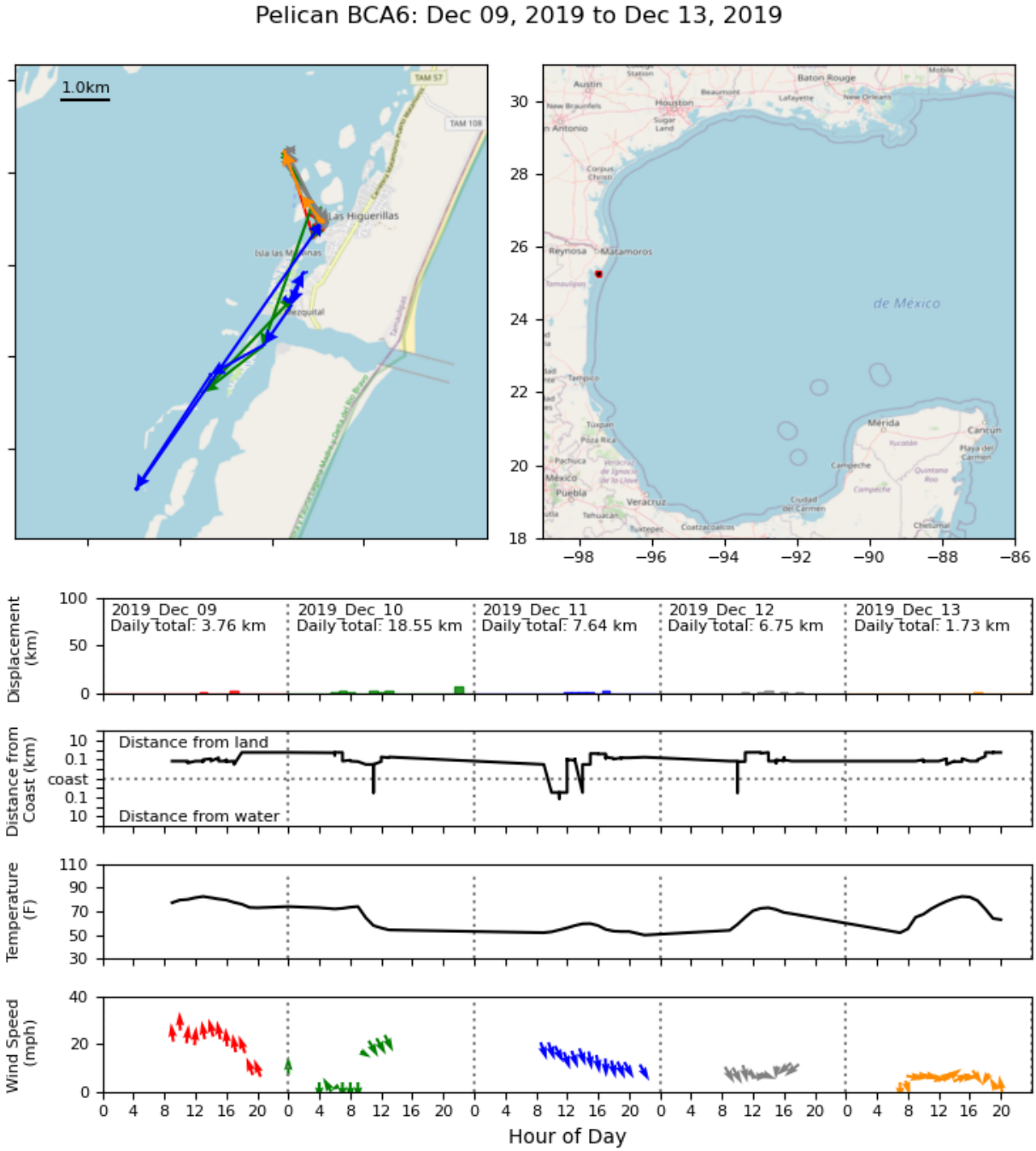

Figure 1173 - Maps and graphs showing movements of BCA6 between 2019-12-09 and 2019-12-12 inclusive.

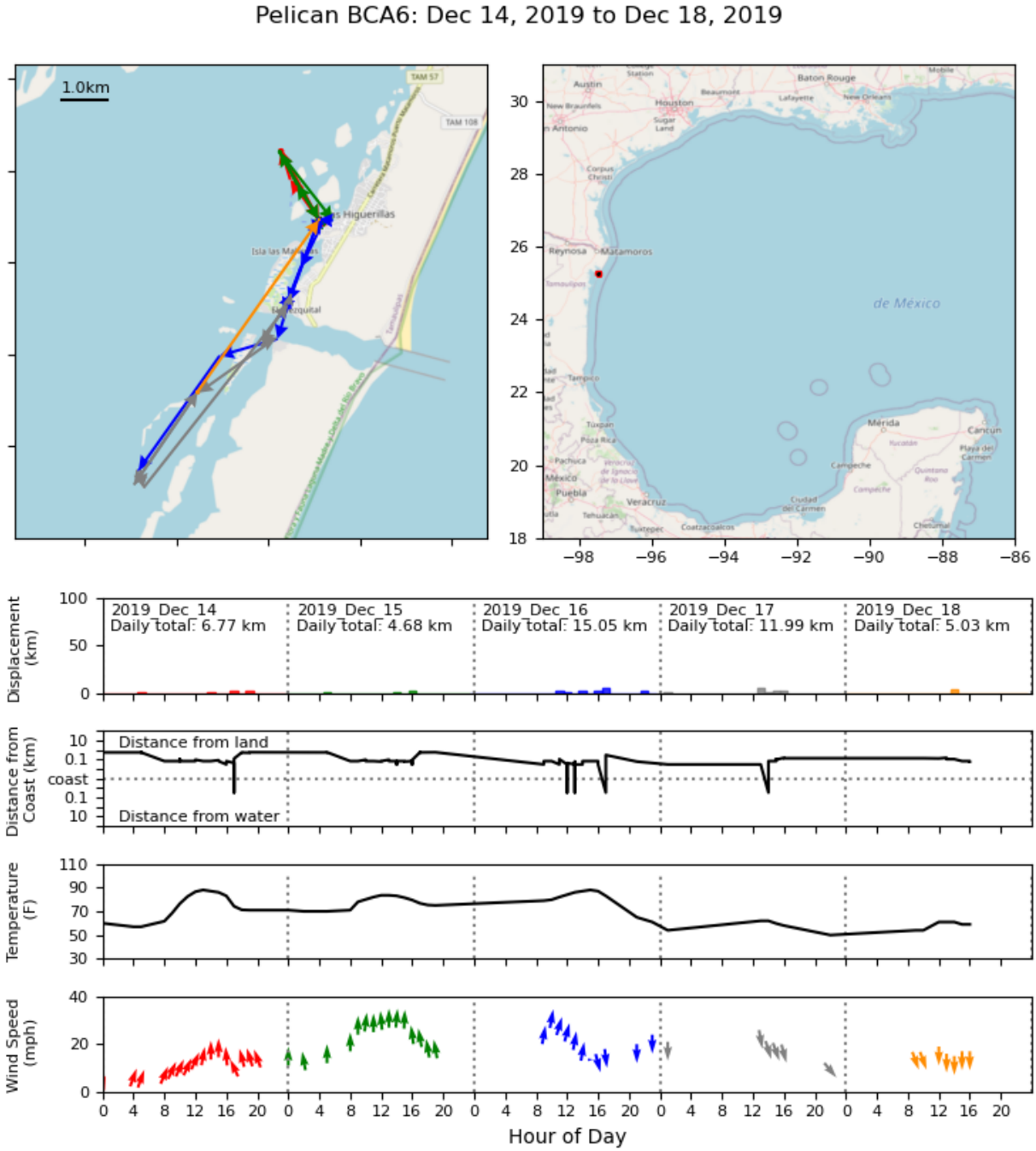

Figure 1174 - Maps and graphs showing movements of BCA6 between 2019-12-14 and 2019-12-17 inclusive.

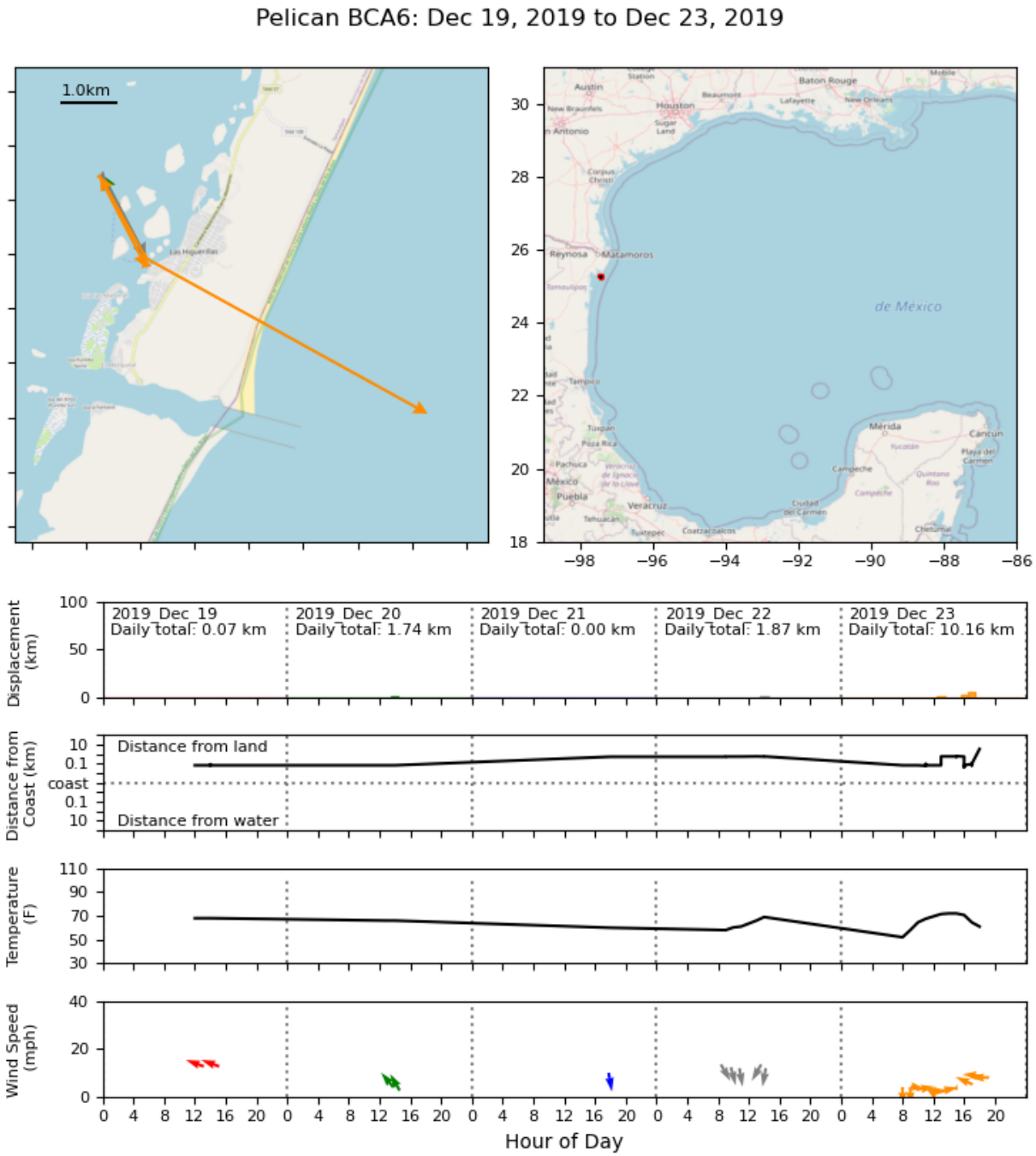

Figure 1175 - Maps and graphs showing movements of BCA6 between 2019-12-19 and 2019-12-22 inclusive.

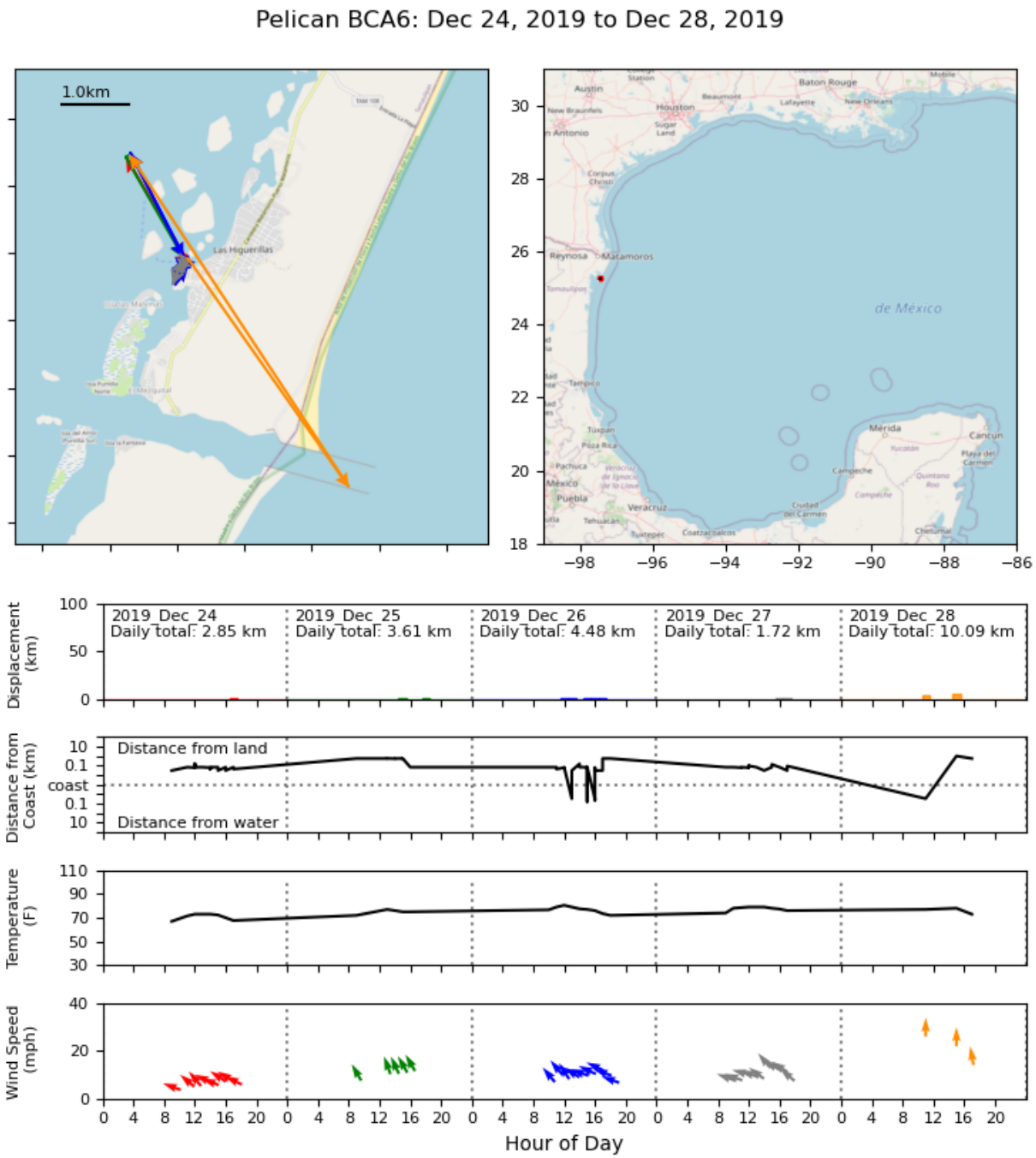

Figure 1176 - Maps and graphs showing movements of BCA6 between 2019-12-24 and 2019-12-27 inclusive.

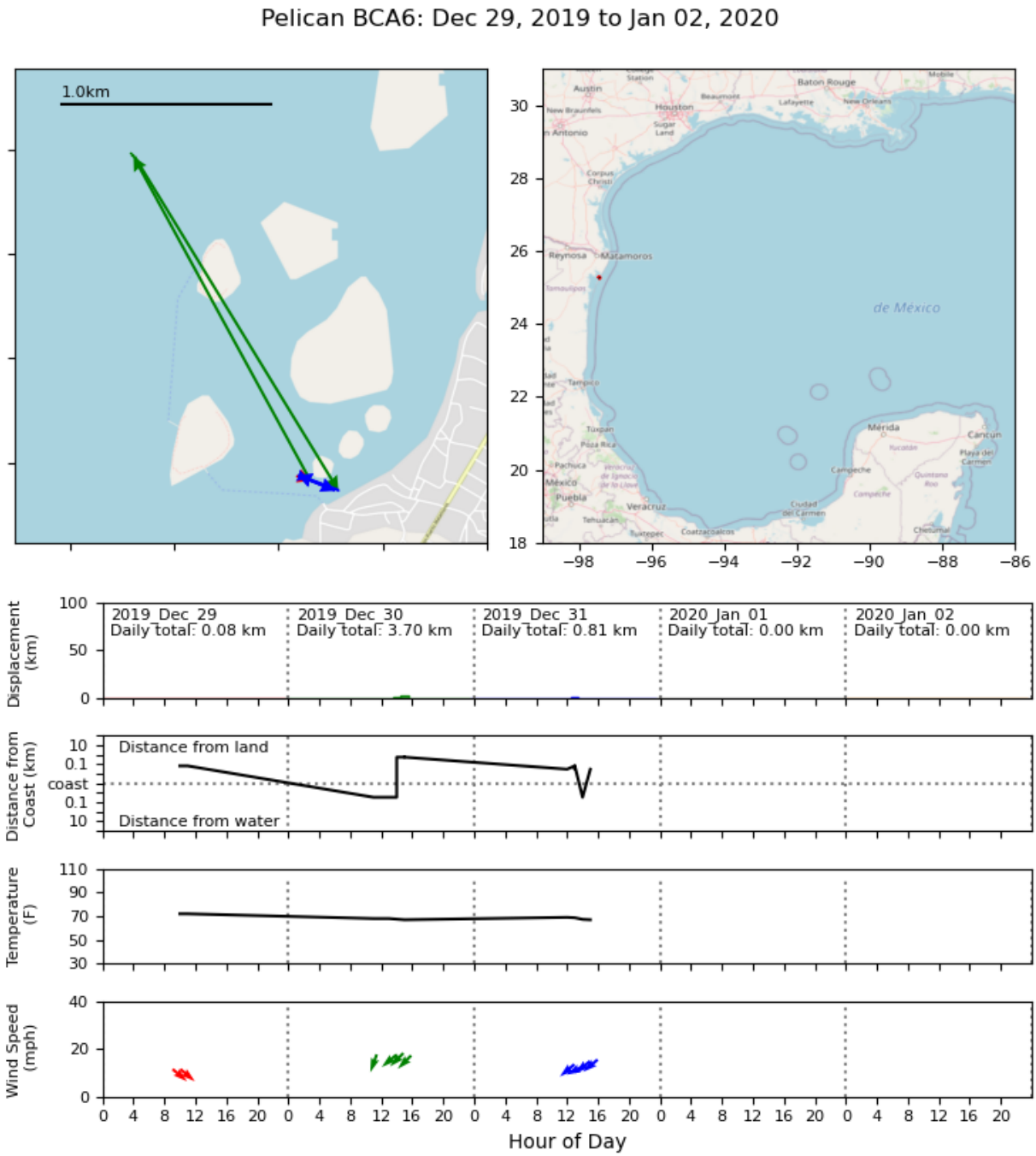

Figure 1177 - Maps and graphs showing movements of BCA6 between 2019-12-29 and 2020-01-01 inclusive.

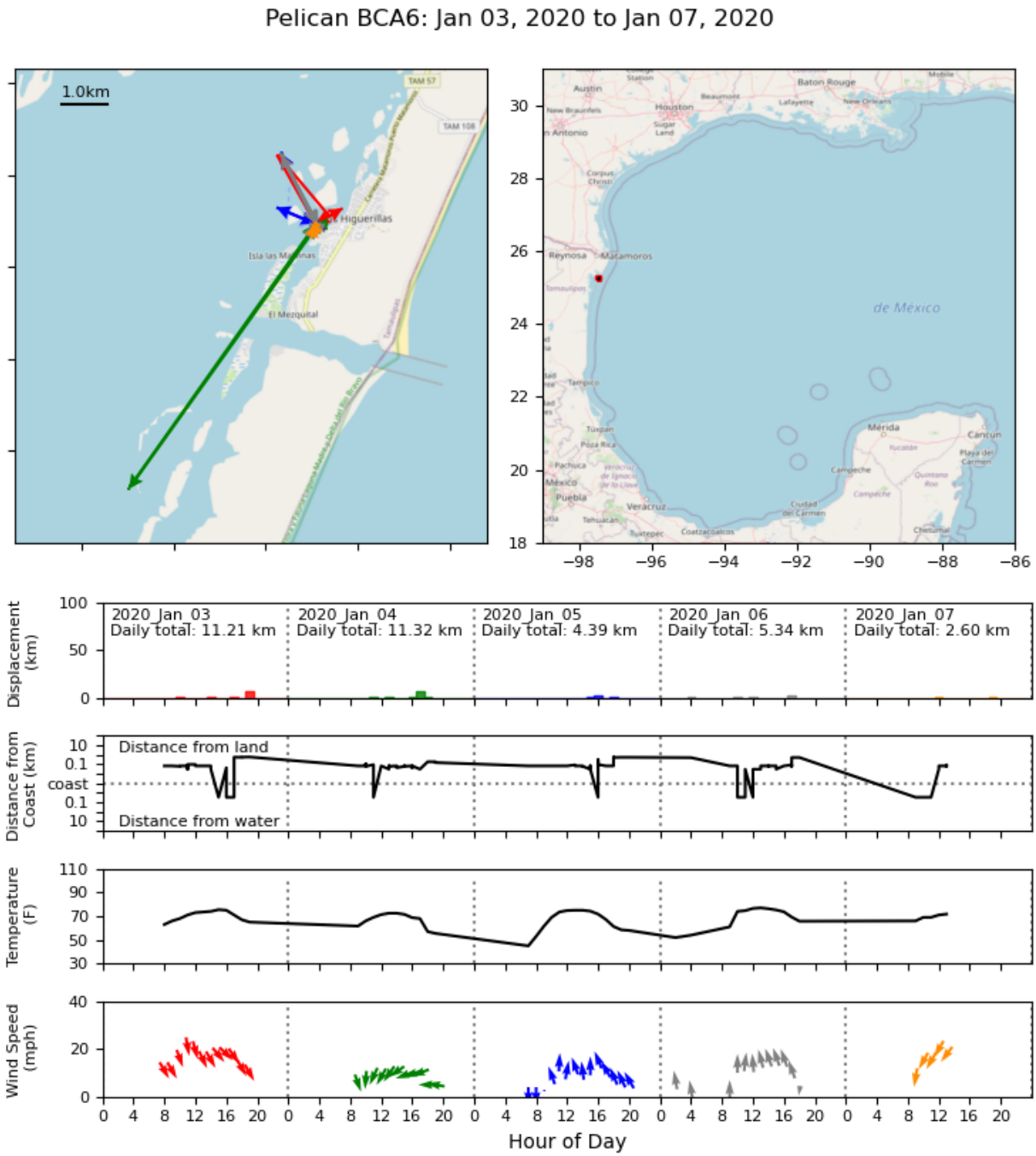

Figure 1178 - Maps and graphs showing movements of BCA6 between 2020-01-03 and 2020-01-06 inclusive.

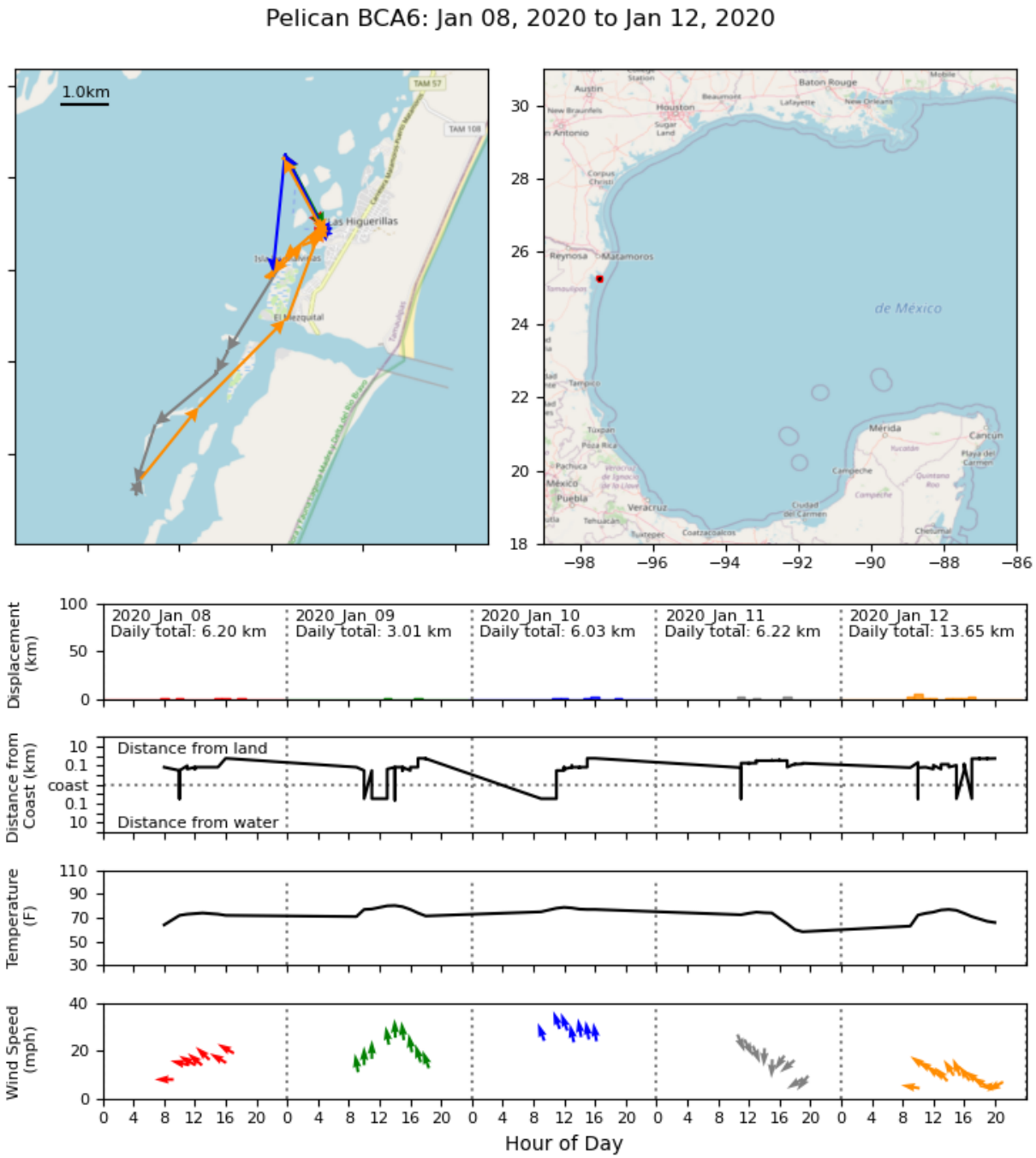

Figure 1179 - Maps and graphs showing movements of BCA6 between 2020-01-08 and 2020-01-11 inclusive.

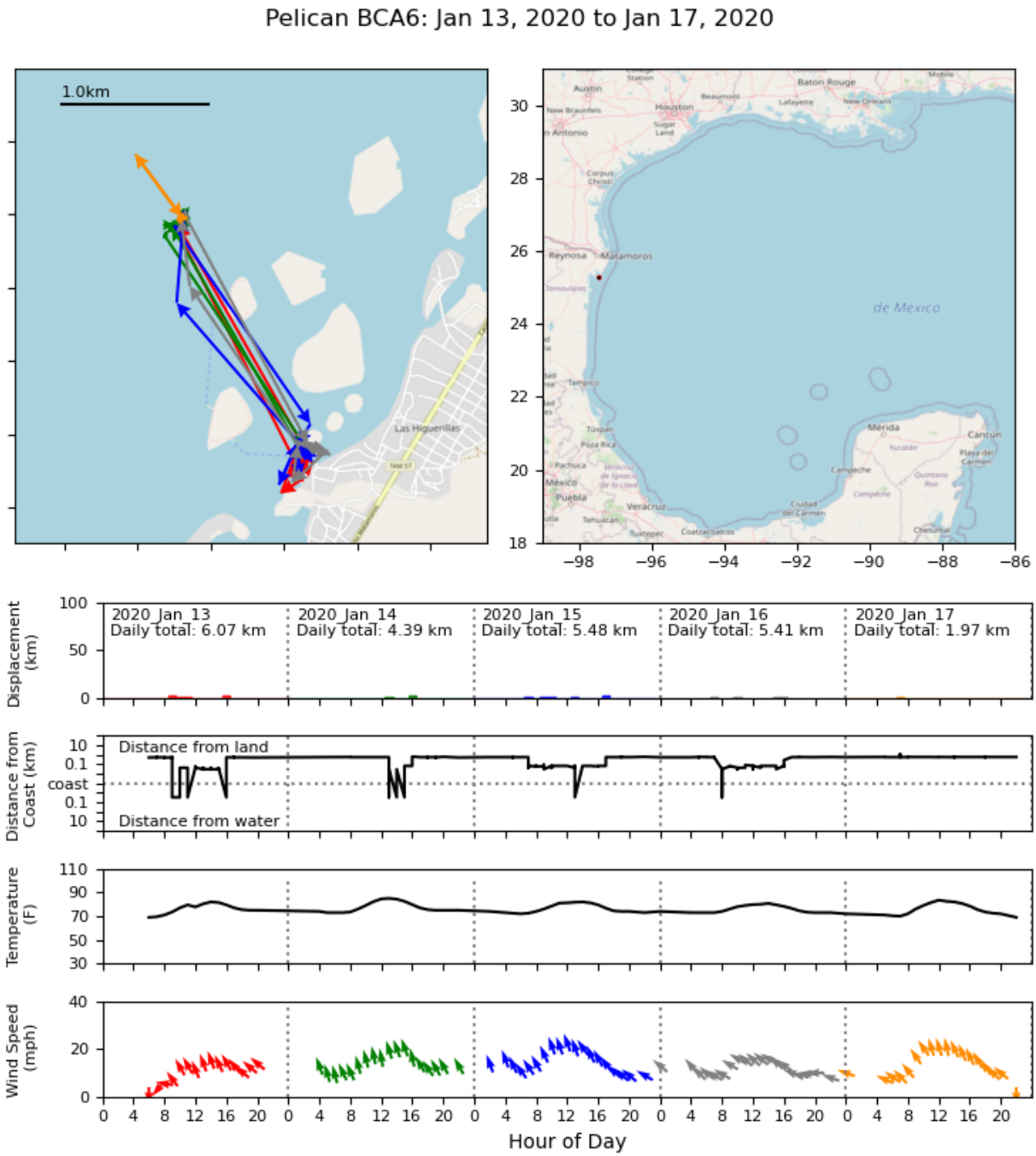

Figure 1180 - Maps and graphs showing movements of BCA6 between 2020-01-13 and 2020-01-16 inclusive.

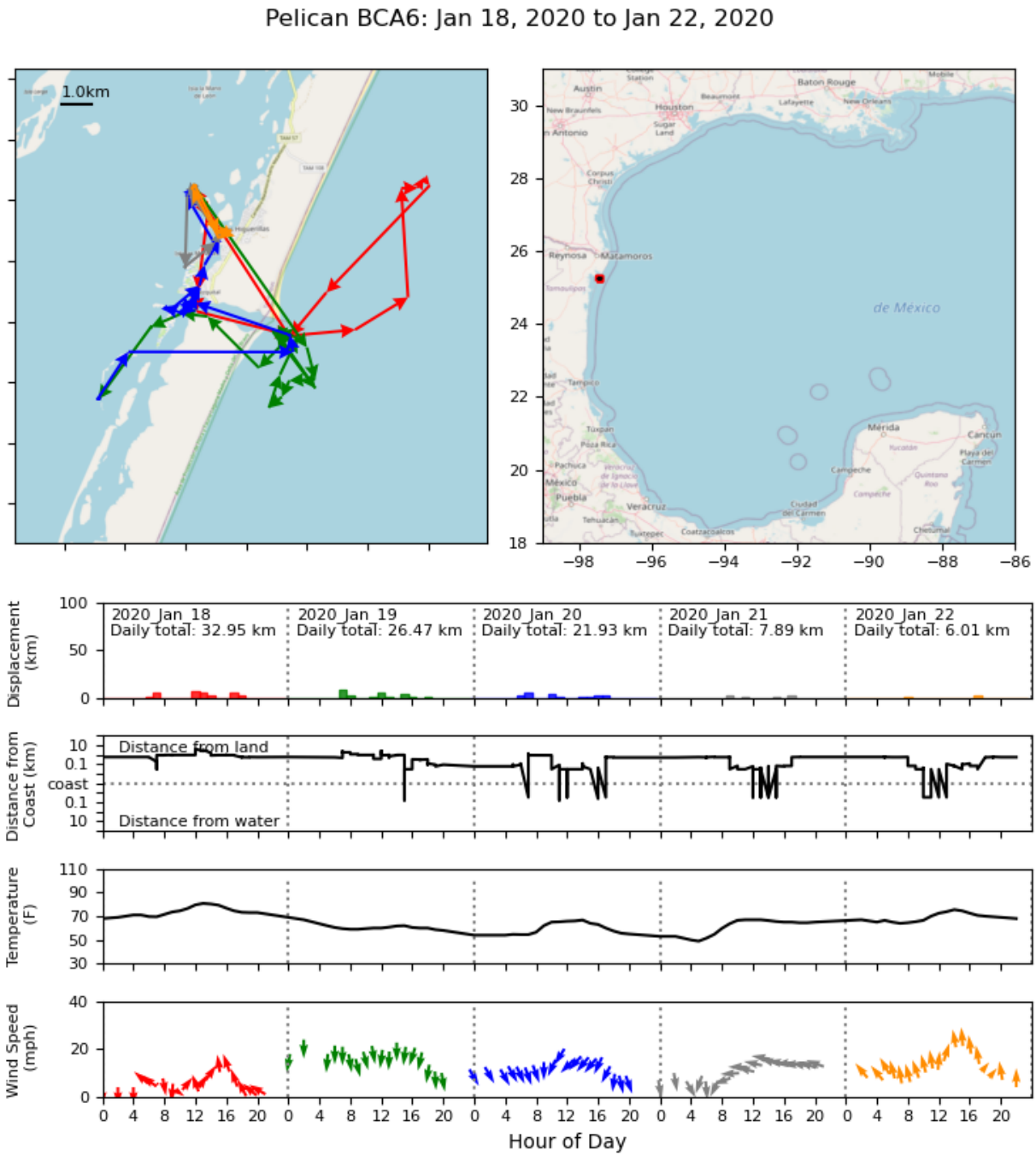

Figure 1181 - Maps and graphs showing movements of BCA6 between 2020-01-18 and 2020-01-21 inclusive.

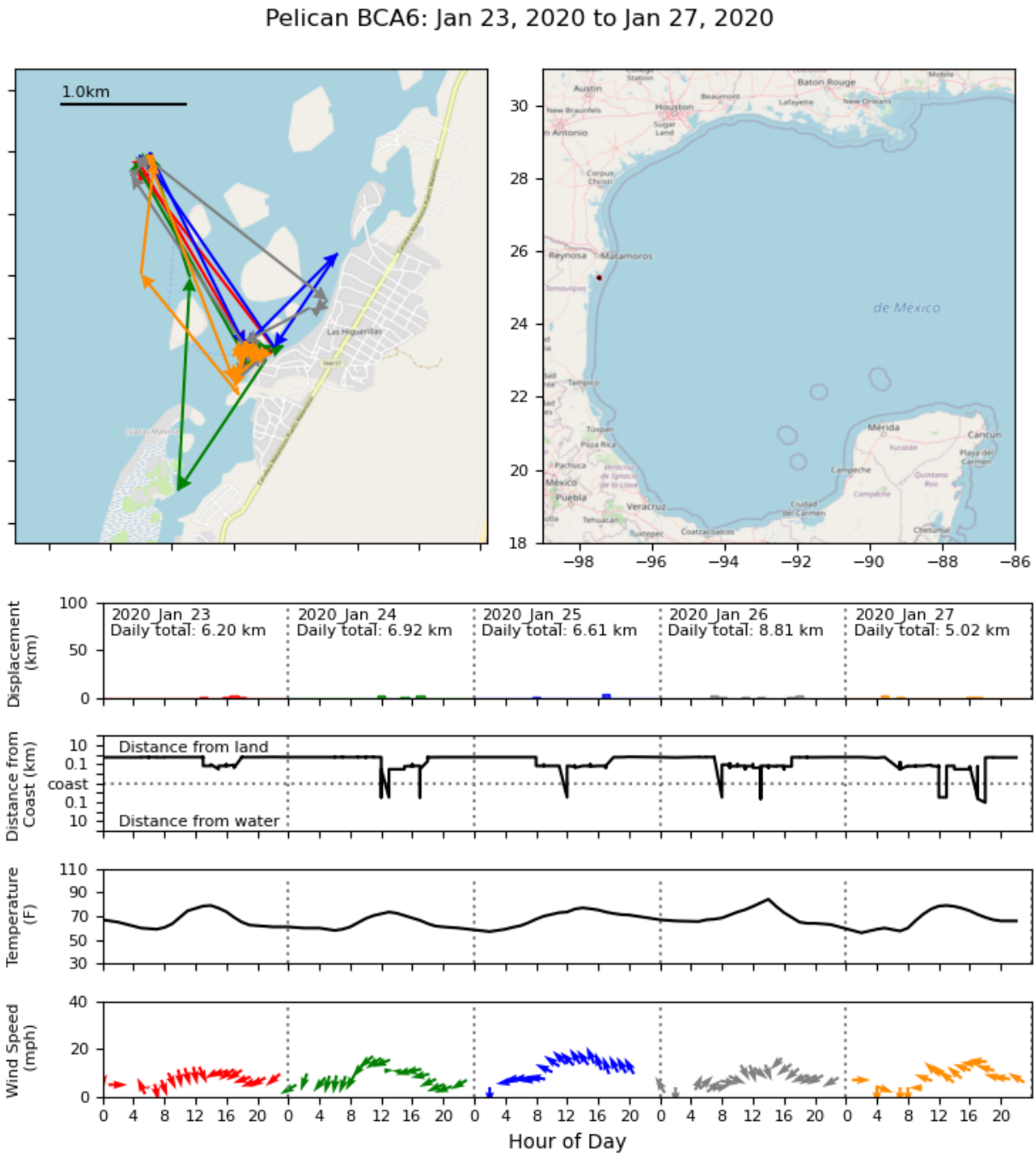

Figure 1182 - Maps and graphs showing movements of BCA6 between 2020-01-23 and 2020-01-26 inclusive.

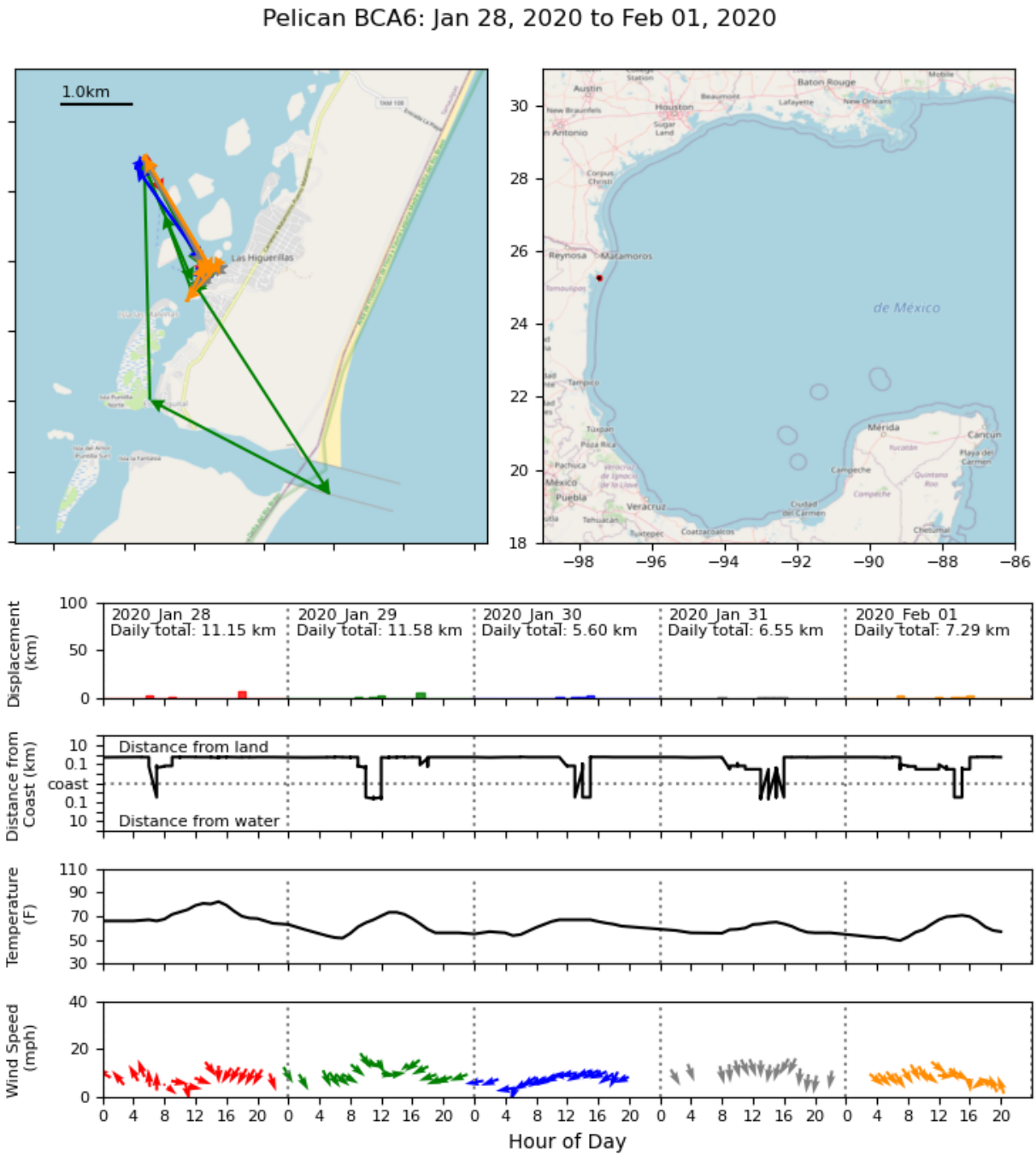

Figure 1183 - Maps and graphs showing movements of BCA6 between 2020-01-28 and 2020-01-31 inclusive.

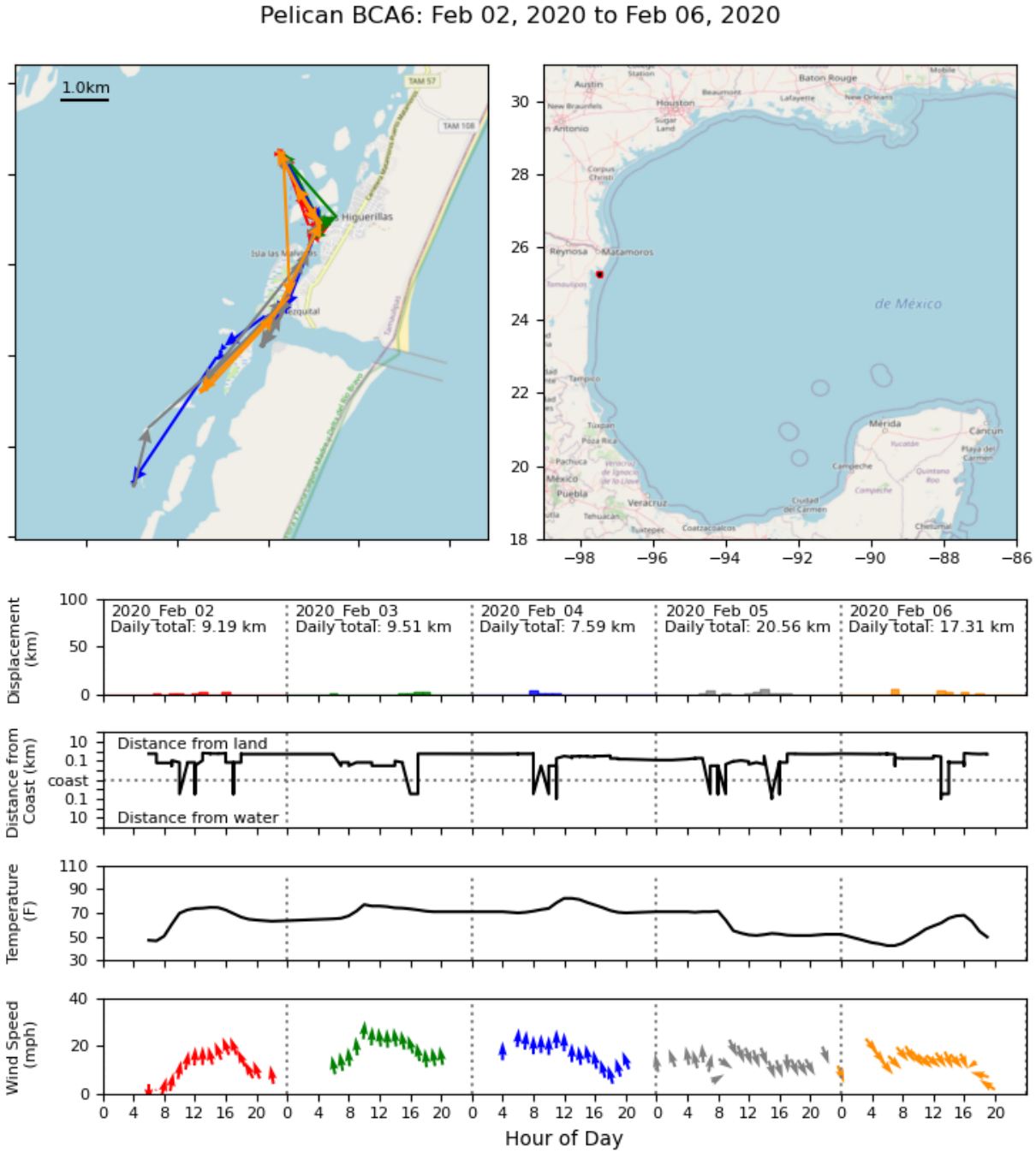

Figure 1184 - Maps and graphs showing movements of BCA6 between 2020-02-02 and 2020-02-05 inclusive.

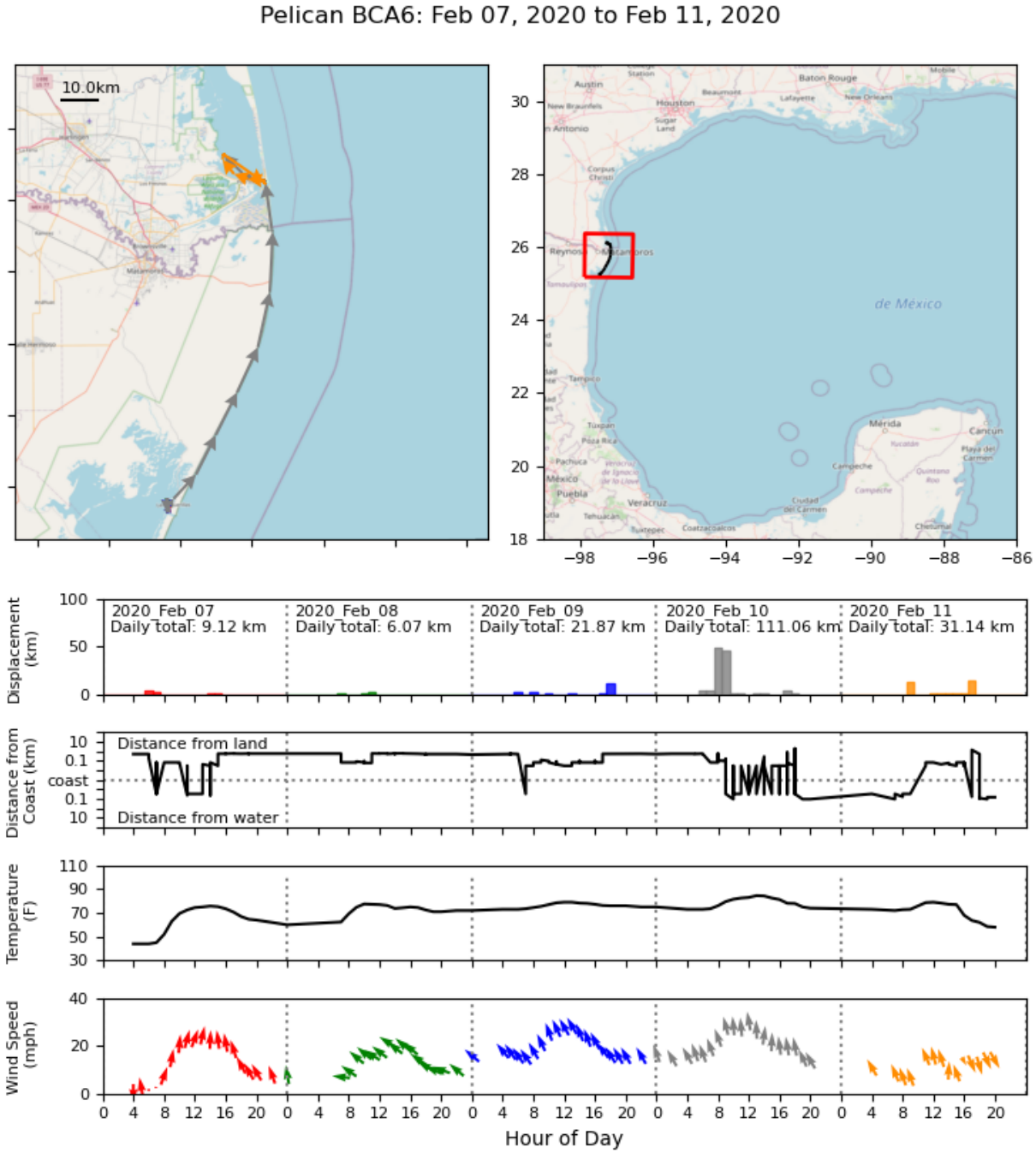

Figure 1185 - Maps and graphs showing movements of BCA6 between 2020-02-07 and 2020-02-10 inclusive.

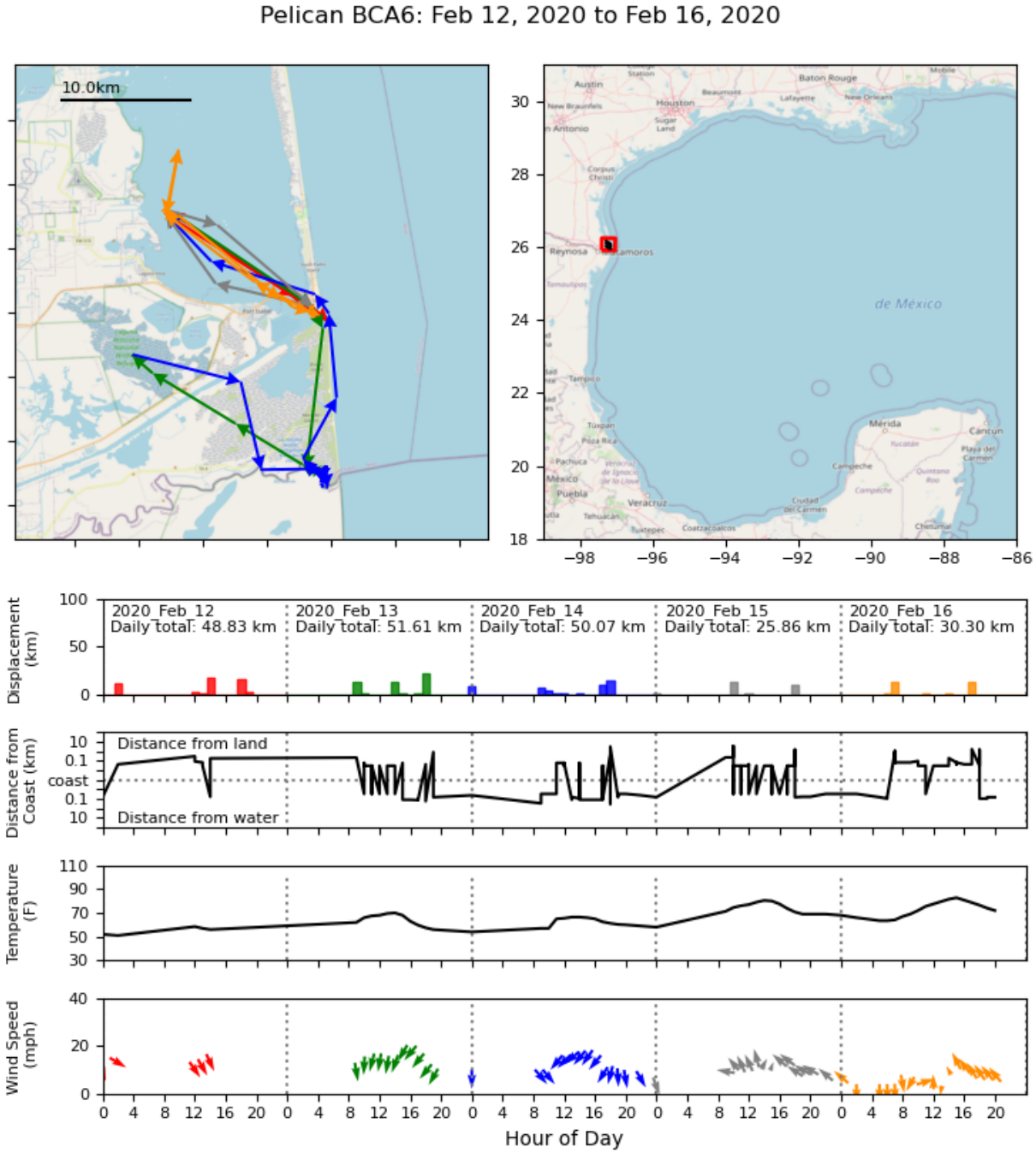

Figure 1186 - Maps and graphs showing movements of BCA6 between 2020-02-12 and 2020-02-15 inclusive.

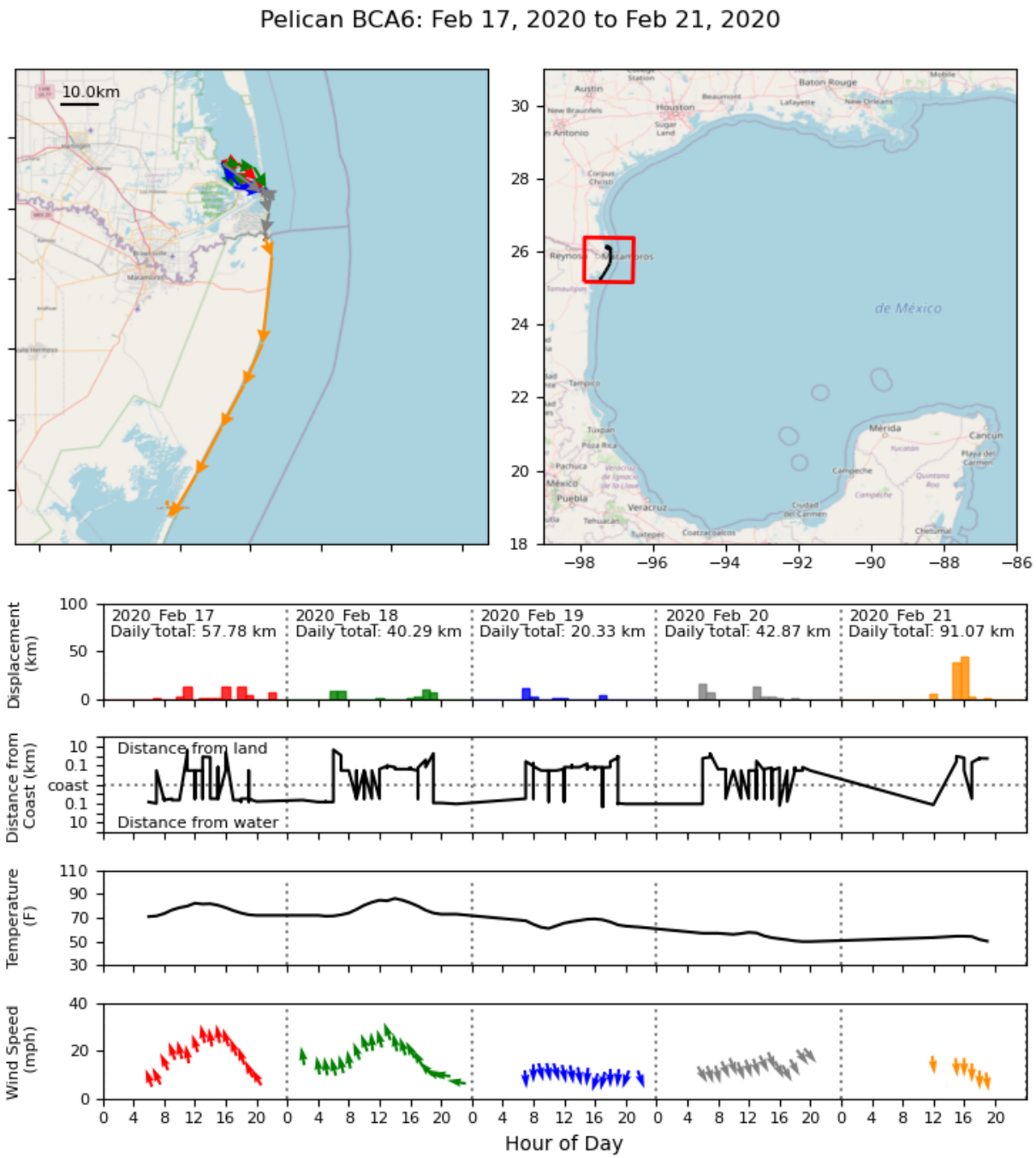

Figure 1187 - Maps and graphs showing movements of BCA6 between 2020-02-17 and 2020-02-20 inclusive.

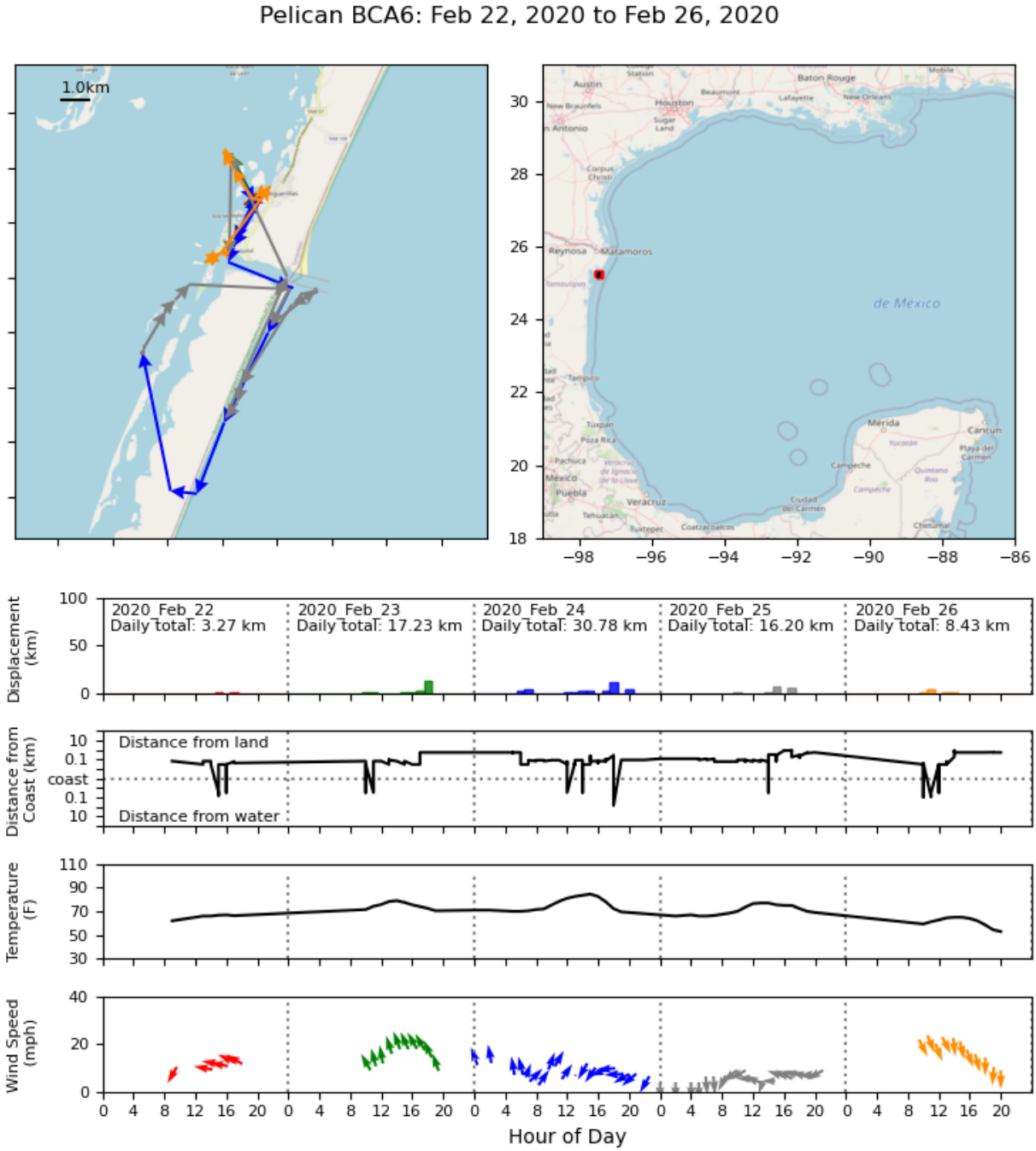

Figure 1188 - Maps and graphs showing movements of BCA6 between 2020-02-22 and 2020-02-25 inclusive.

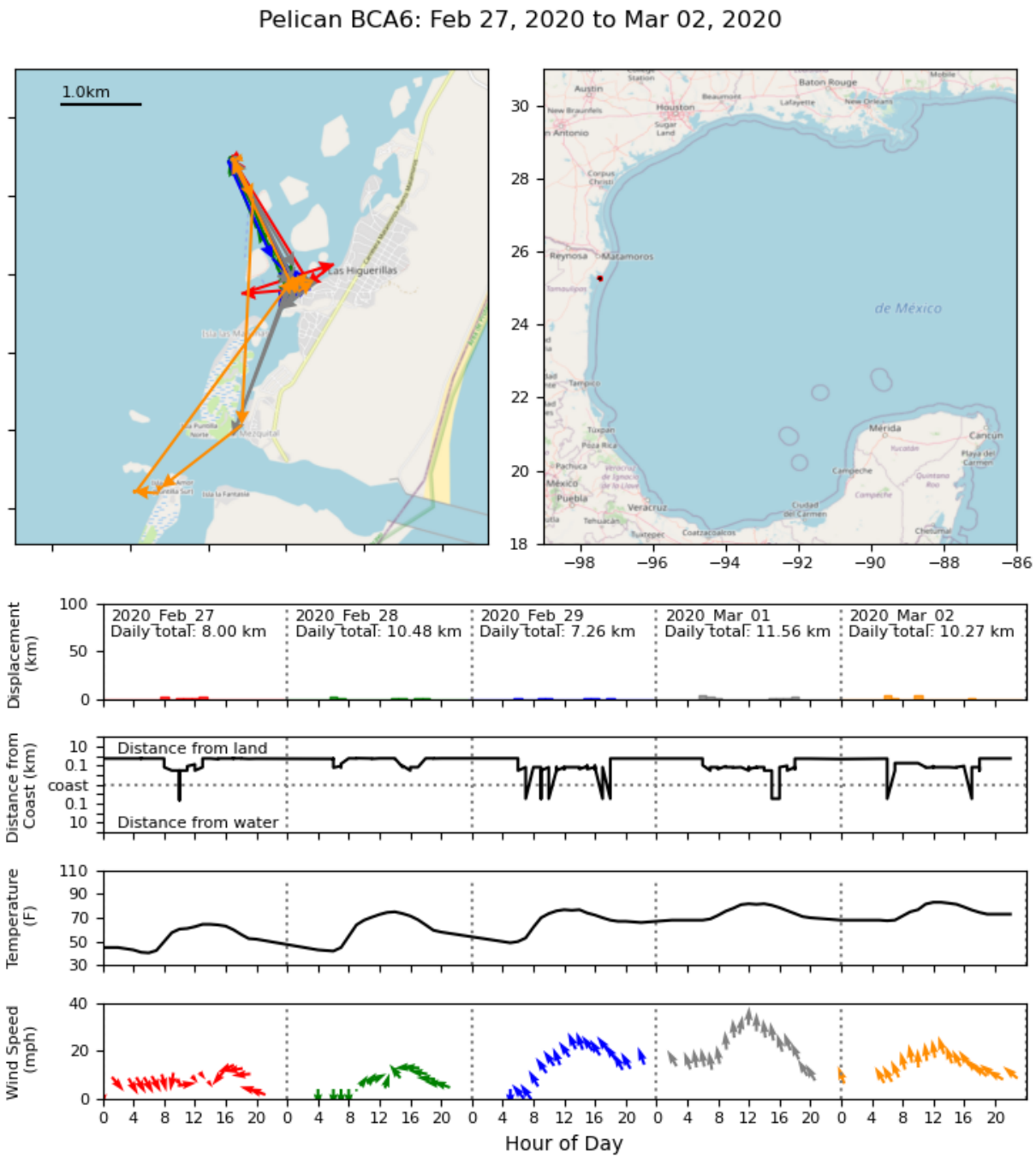

Figure 1189 - Maps and graphs showing movements of BCA6 between 2020-02-27 and 2020-03-01 inclusive.

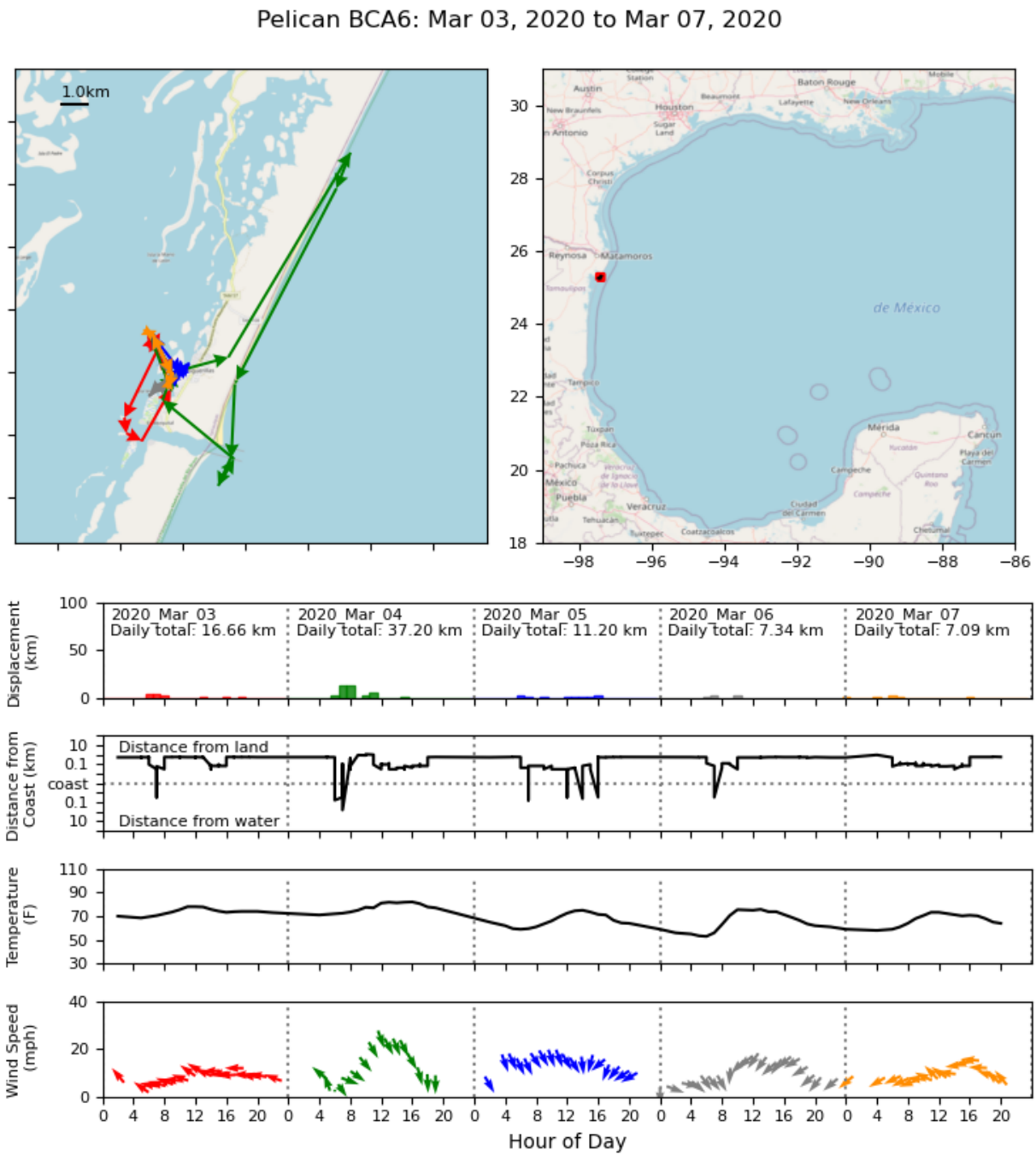

Figure 1190 - Maps and graphs showing movements of BCA6 between 2020-03-03 and 2020-03-06 inclusive.

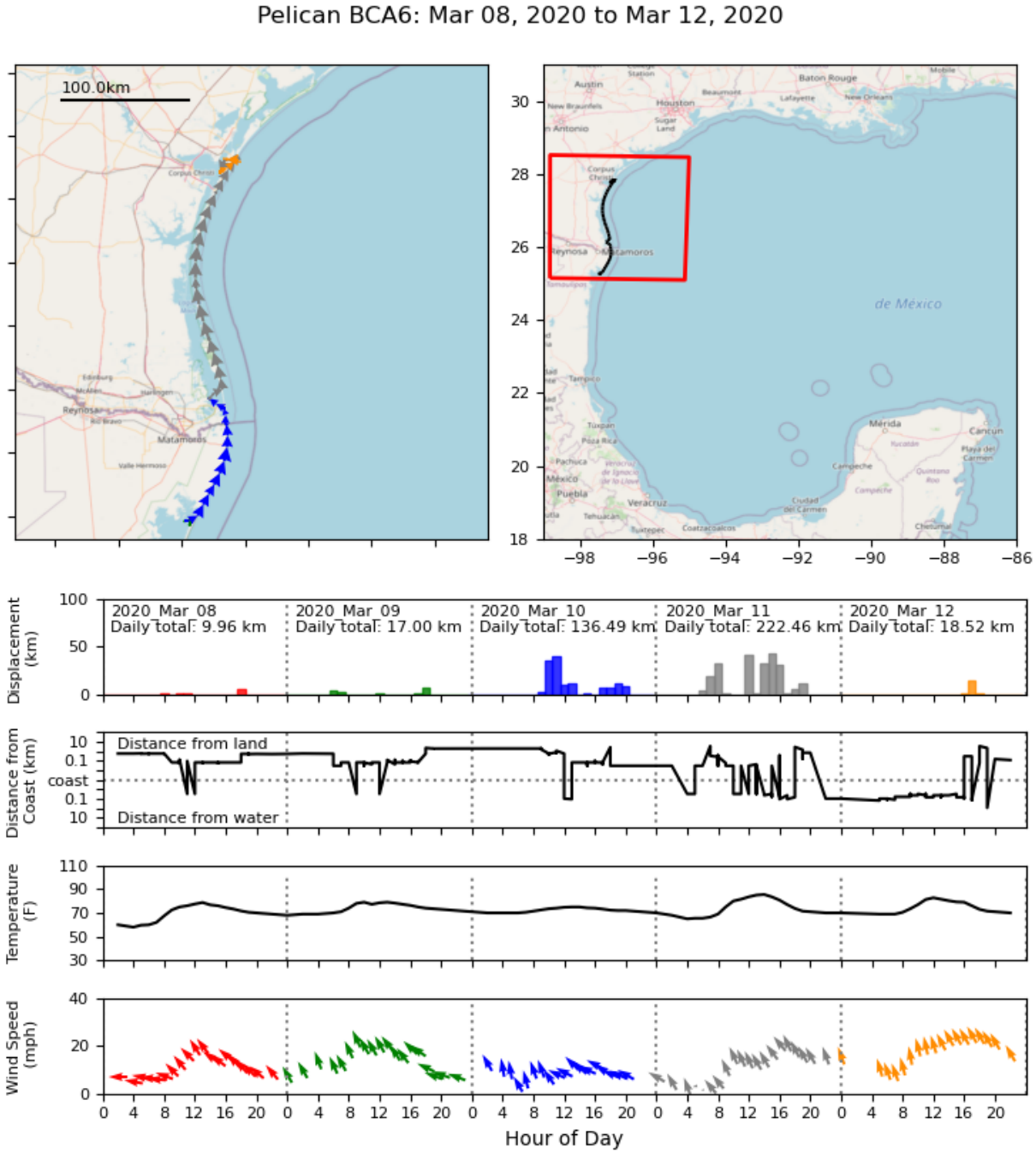

Figure 1191 - Maps and graphs showing movements of BCA6 between 2020-03-08 and 2020-03-11 inclusive.

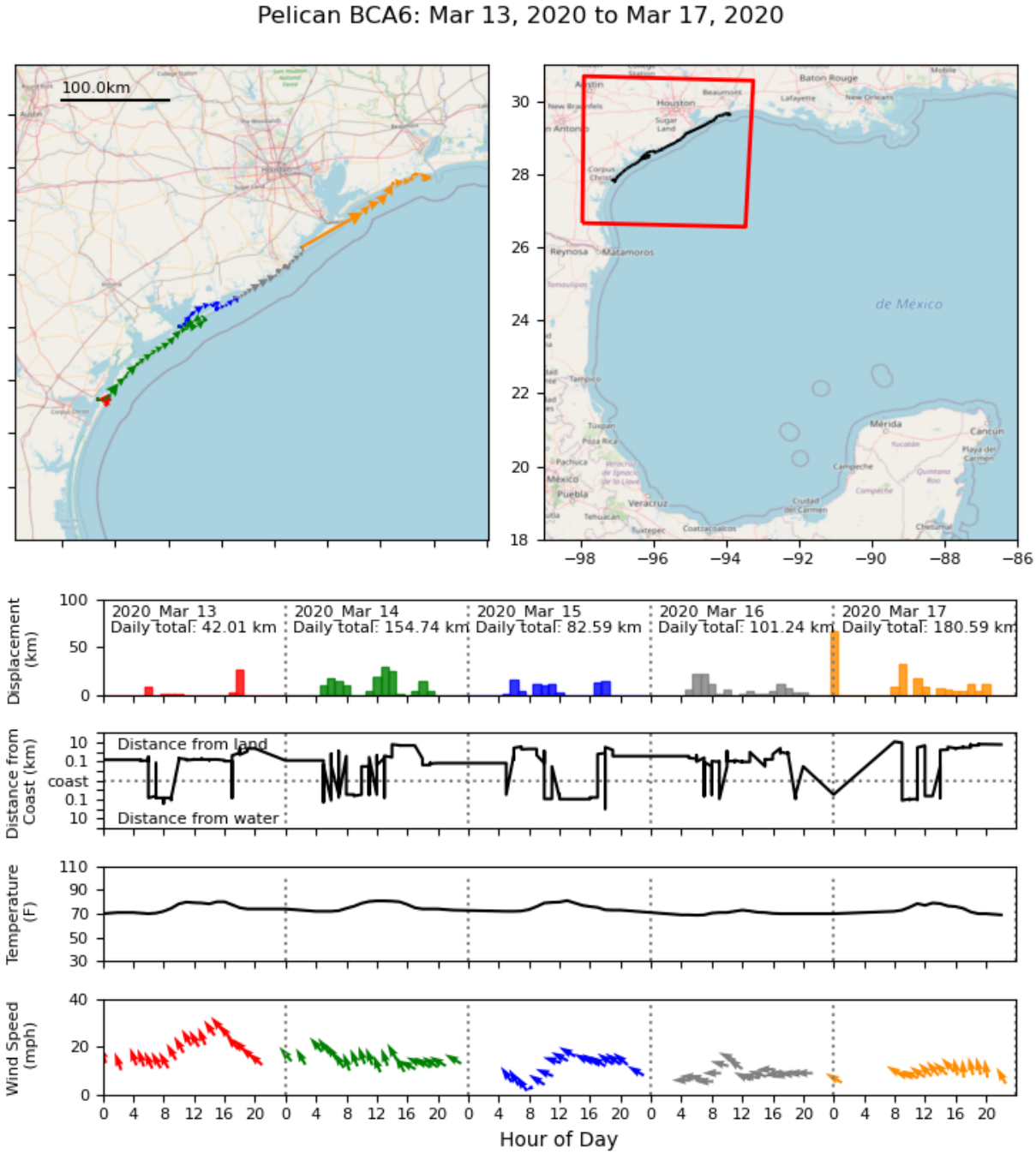

Figure 1192 - Maps and graphs showing movements of BCA6 between 2020-03-13 and 2020-03-16 inclusive.

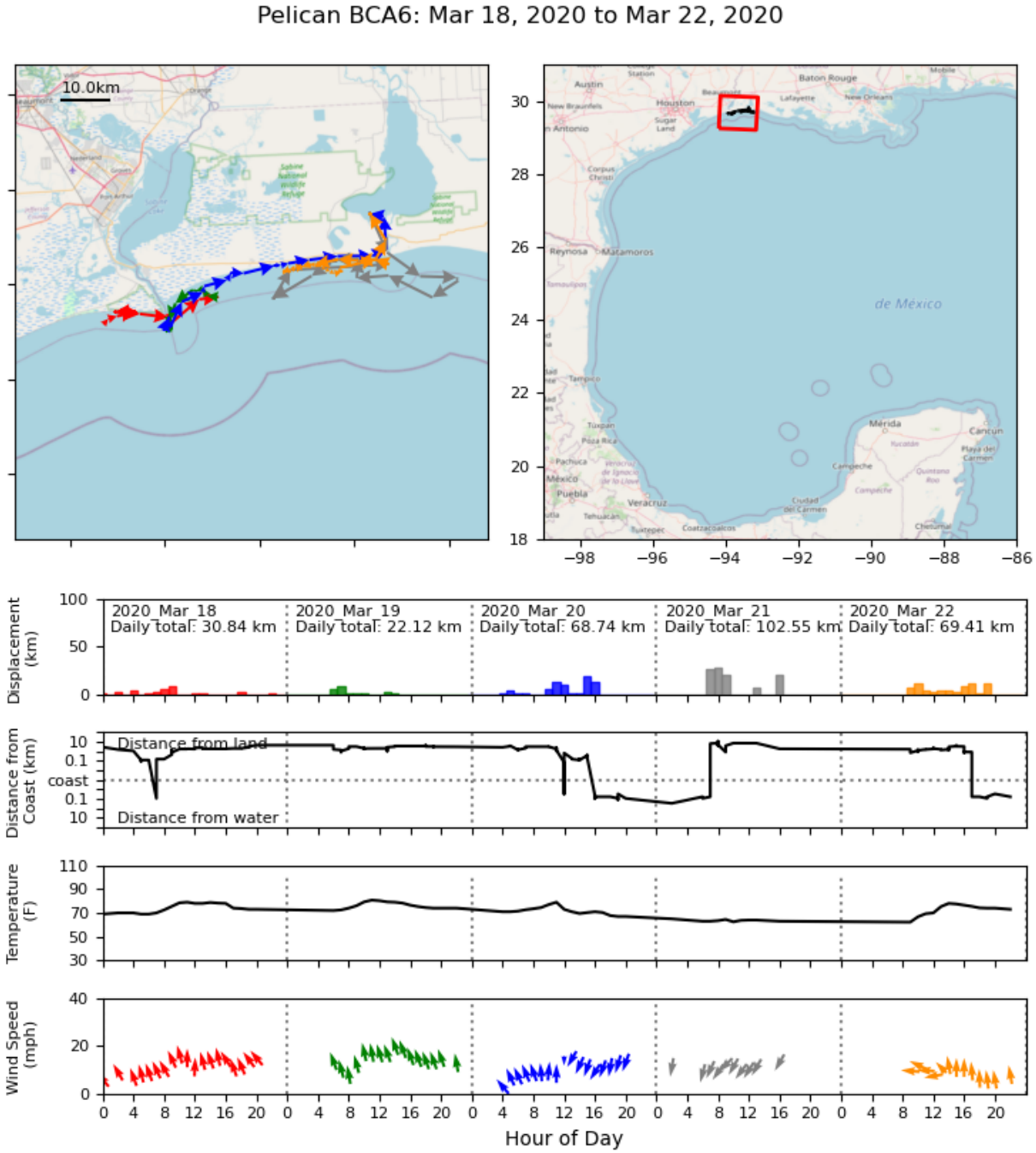

Figure 1193 - Maps and graphs showing movements of BCA6 between 2020-03-18 and 2020-03-21 inclusive.

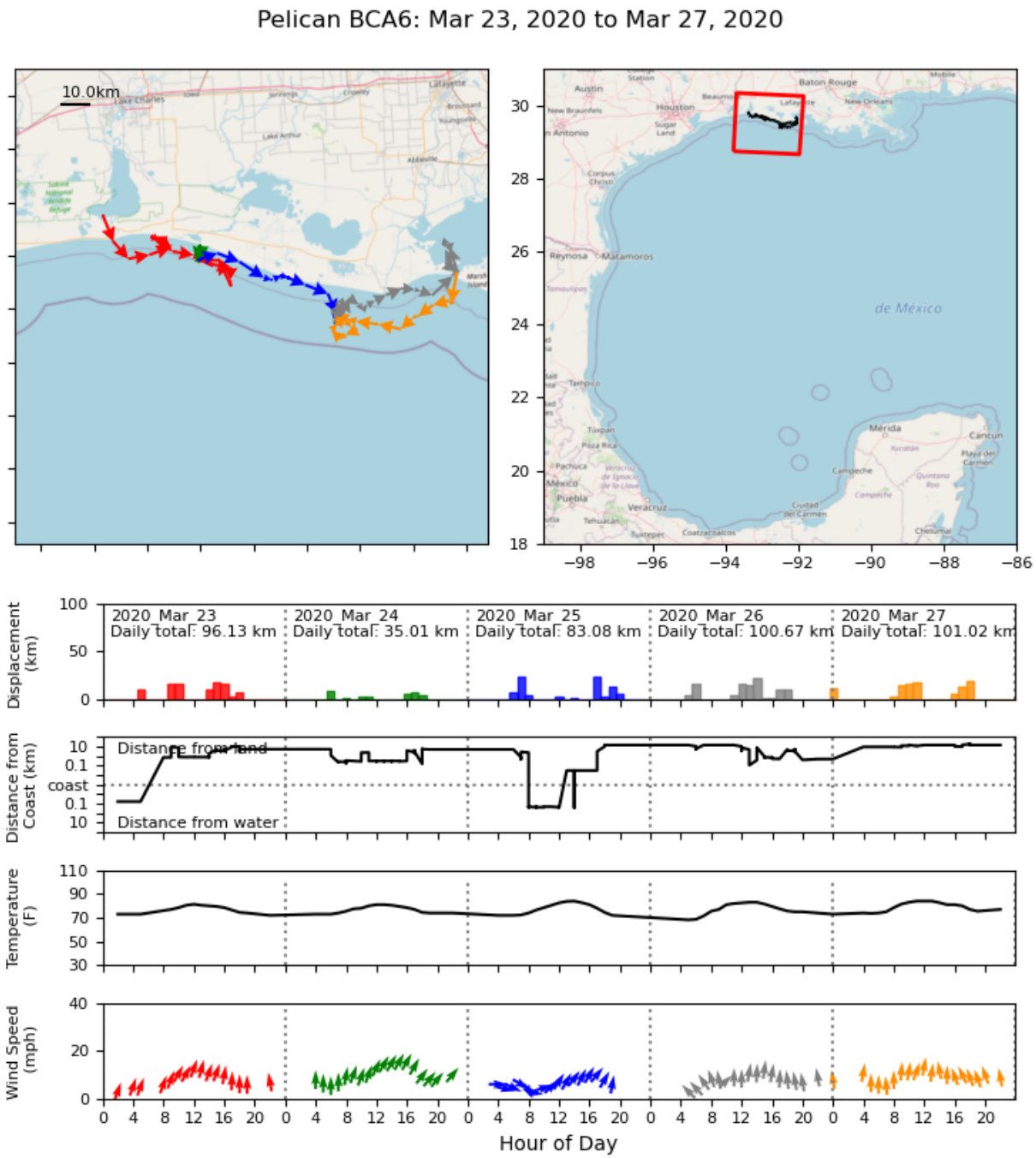

Figure 1194 - Maps and graphs showing movements of BCA6 between 2020-03-23 and 2020-03-26 inclusive.

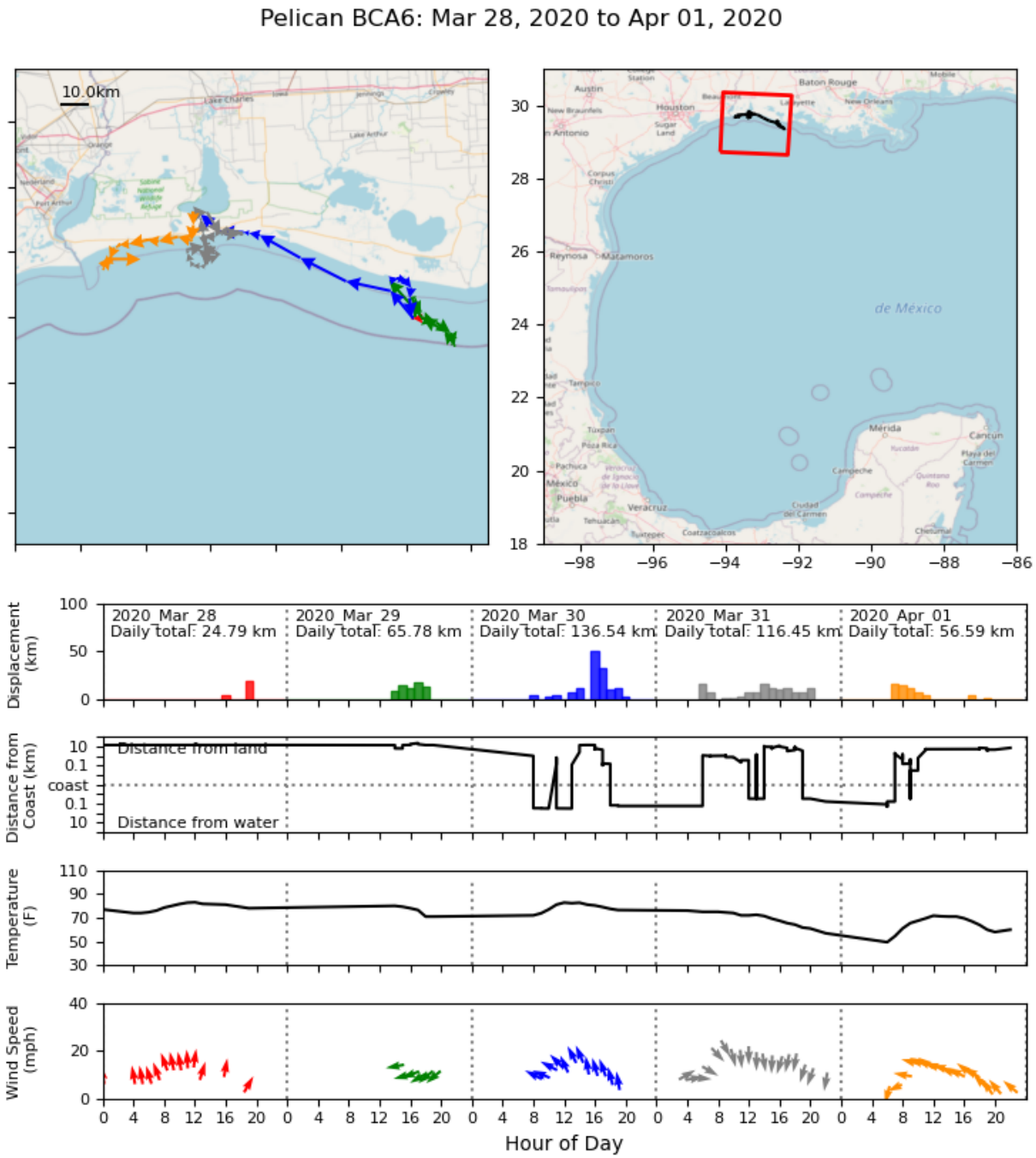

Figure 1195 - Maps and graphs showing movements of BCA6 between 2020-03-28 and 2020-03-31 inclusive.

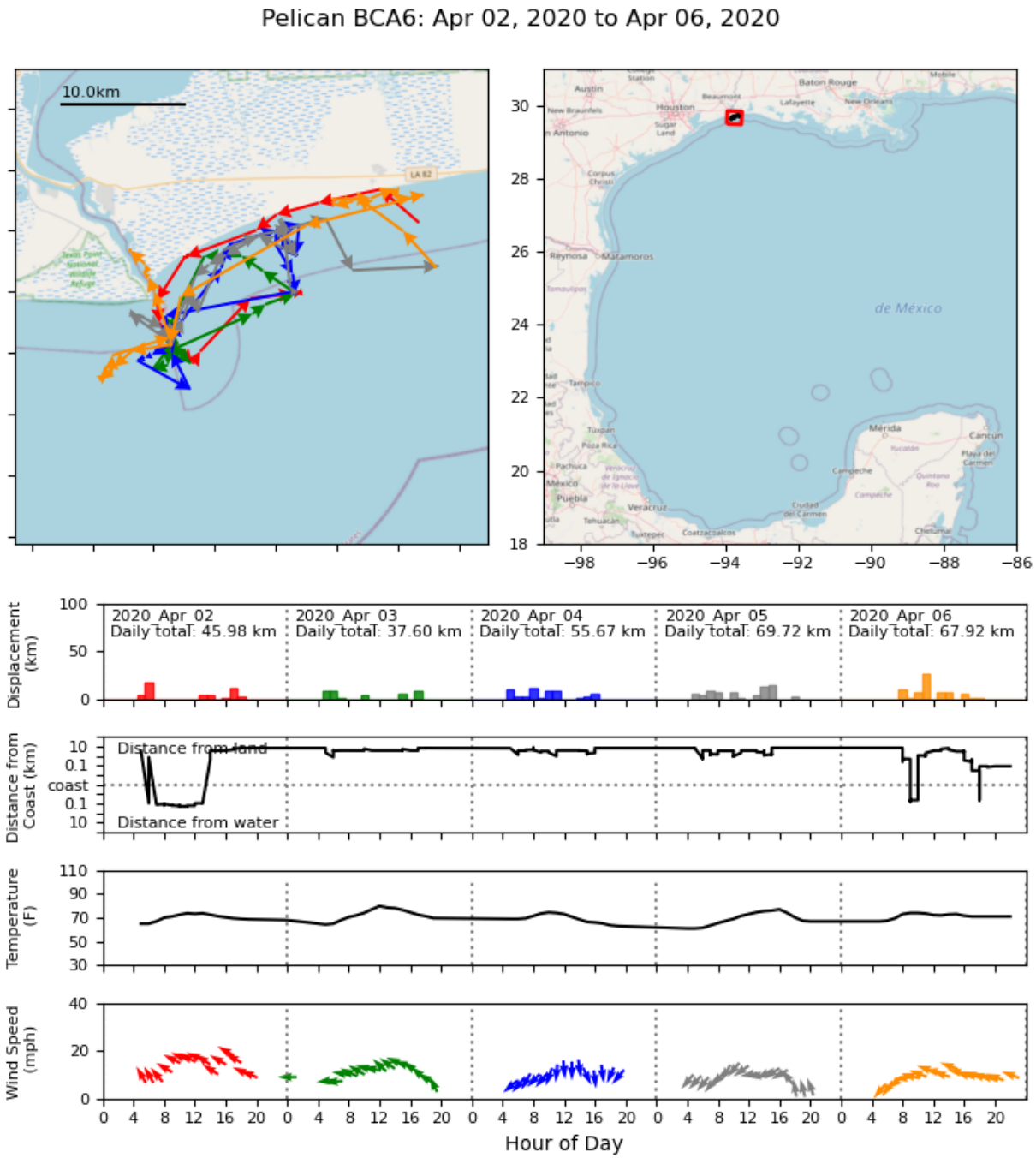

Figure 1196 - Maps and graphs showing movements of BCA6 between 2020-04-02 and 2020-04-05 inclusive.

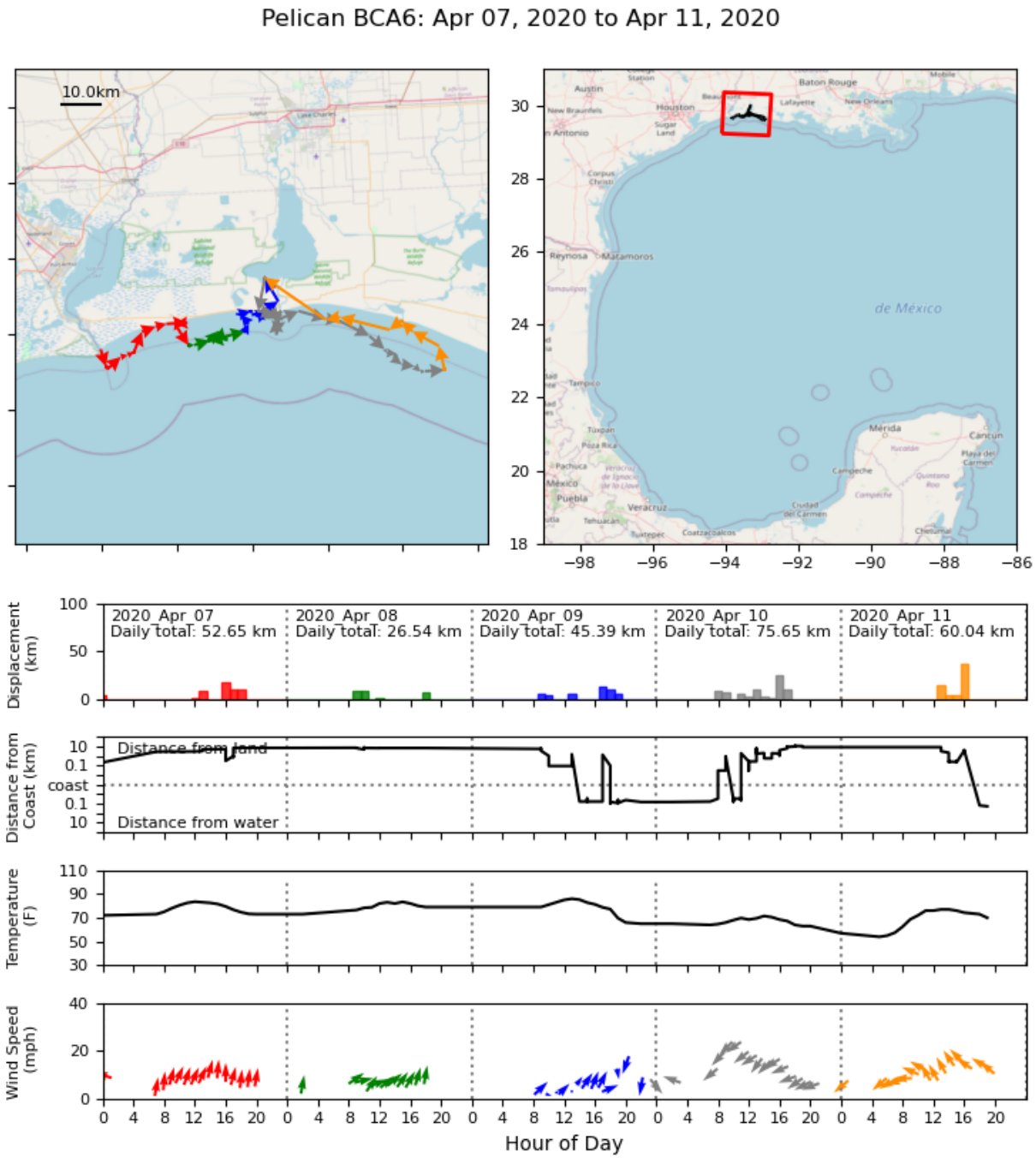

Figure 1197 - Maps and graphs showing movements of BCA6 between 2020-04-07 and 2020-04-10 inclusive.

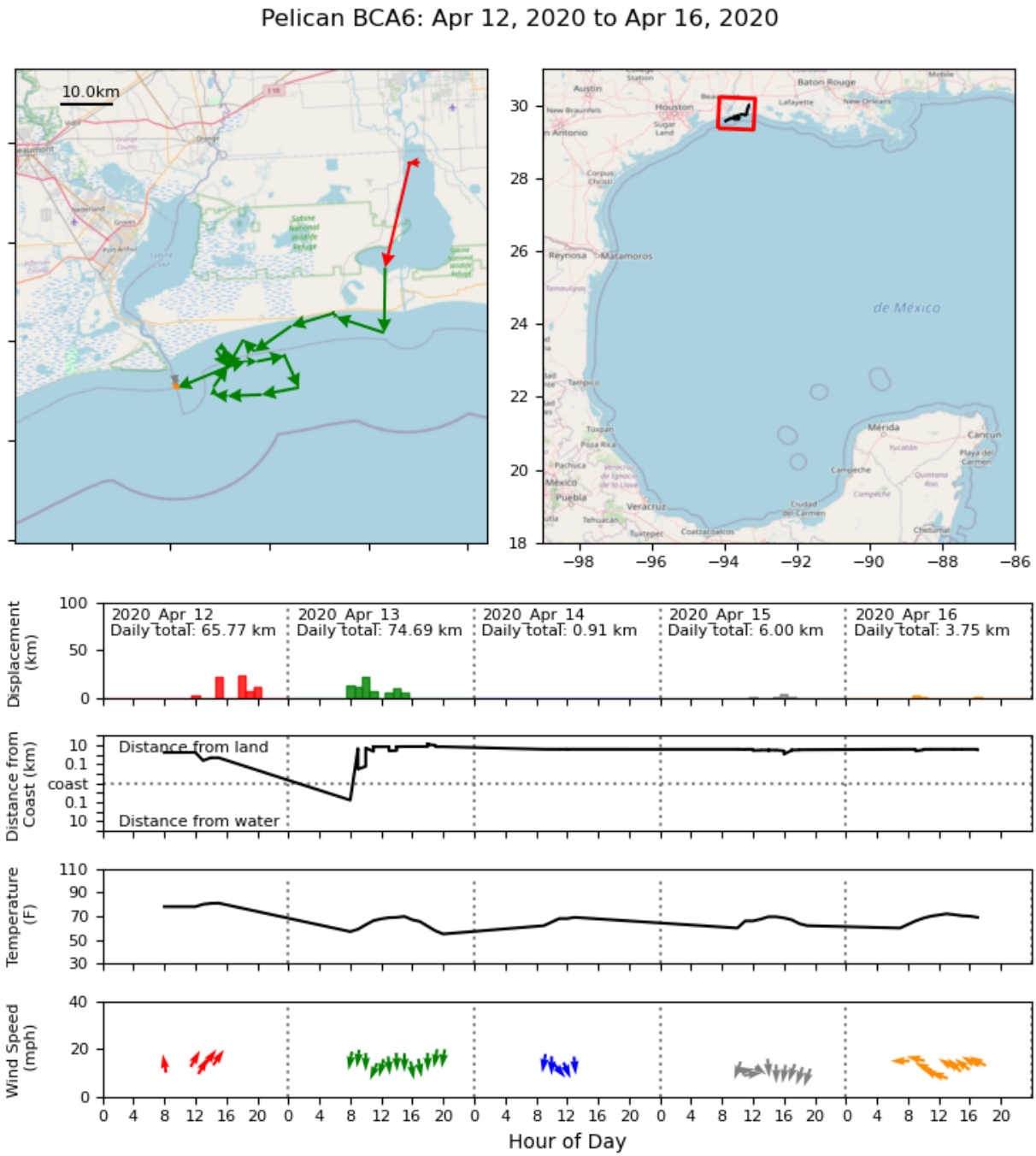

Figure 1198 - Maps and graphs showing movements of BCA6 between 2020-04-12 and 2020-04-15 inclusive.

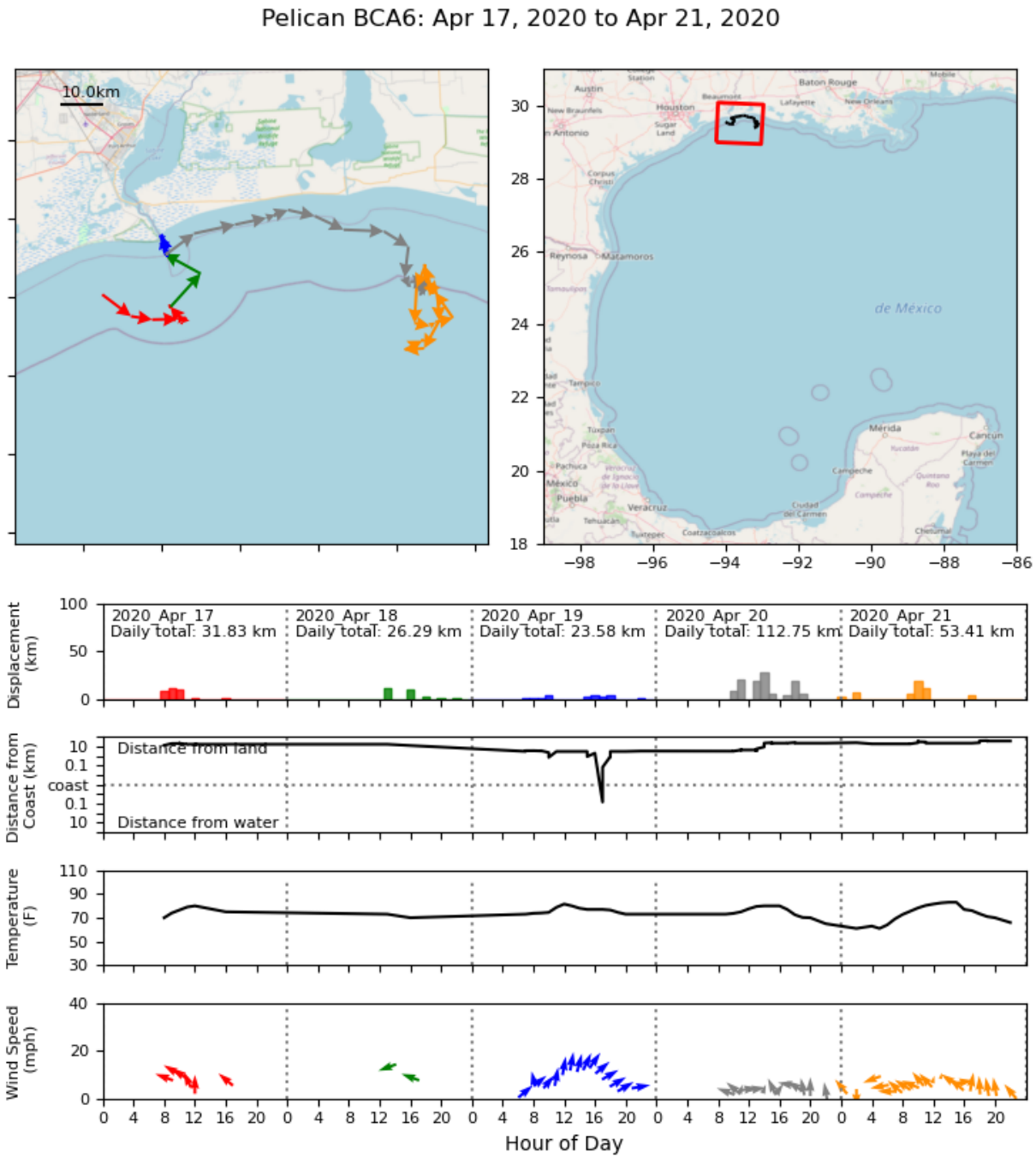

Figure 1199 - Maps and graphs showing movements of BCA6 between 2020-04-17 and 2020-04-20 inclusive.

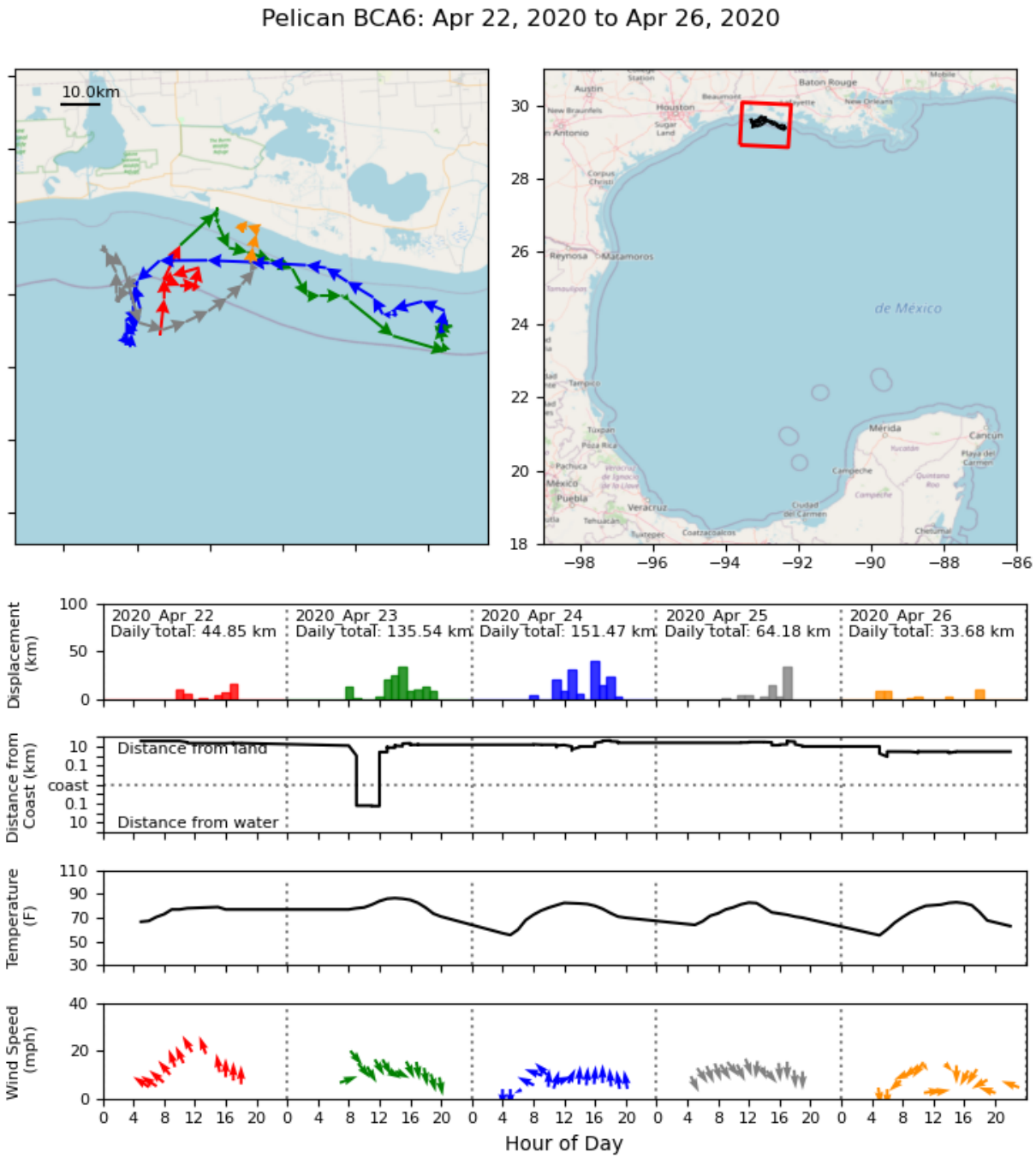

Figure 1200 - Maps and graphs showing movements of BCA6 between 2020-04-22 and 2020-04-25 inclusive.

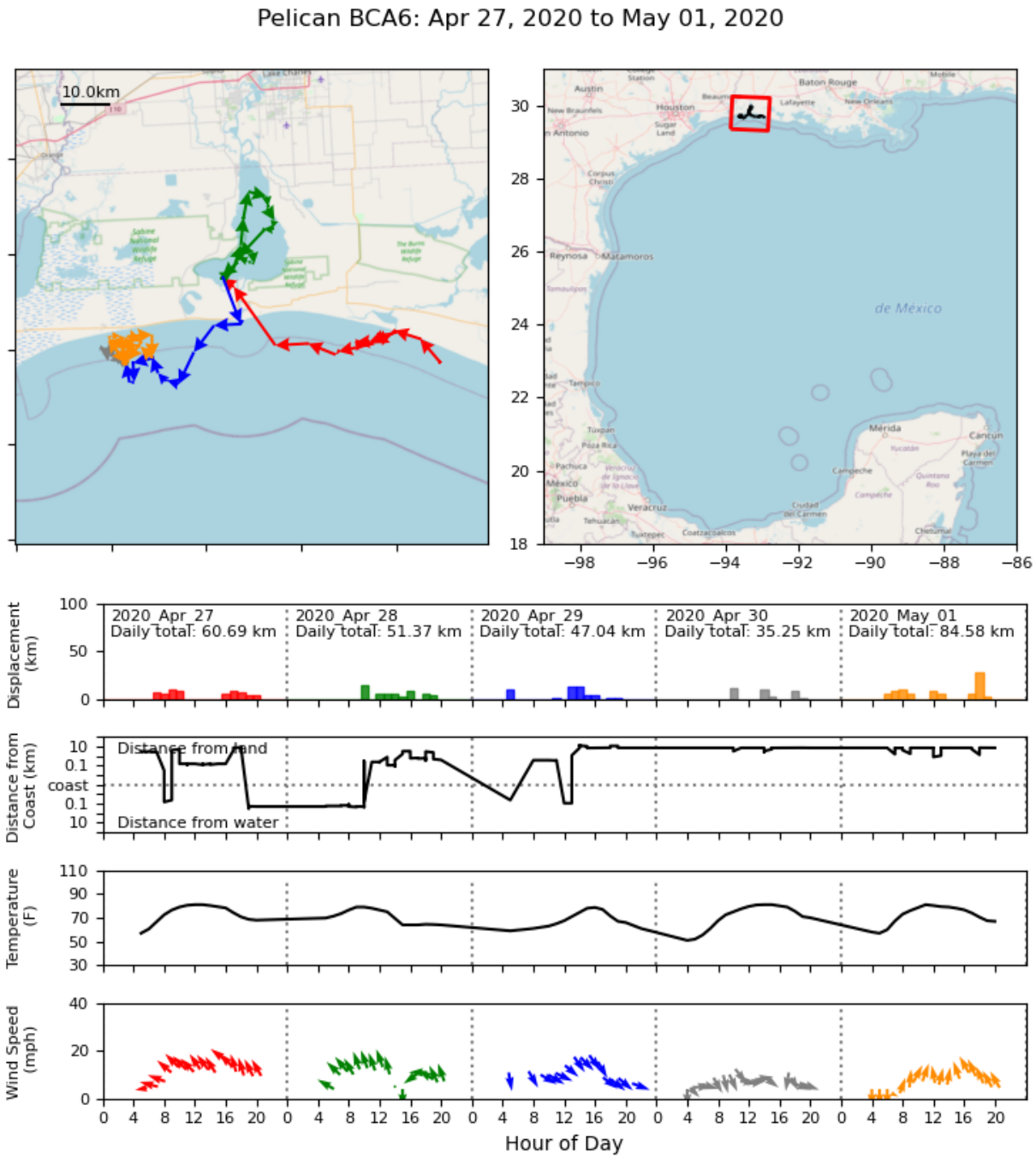

Figure 1201 - Maps and graphs showing movements of BCA6 between 2020-04-27 and 2020-04-30 inclusive.

Pelican BDA6 - Active from January 30, 2019 to February 27, 2019

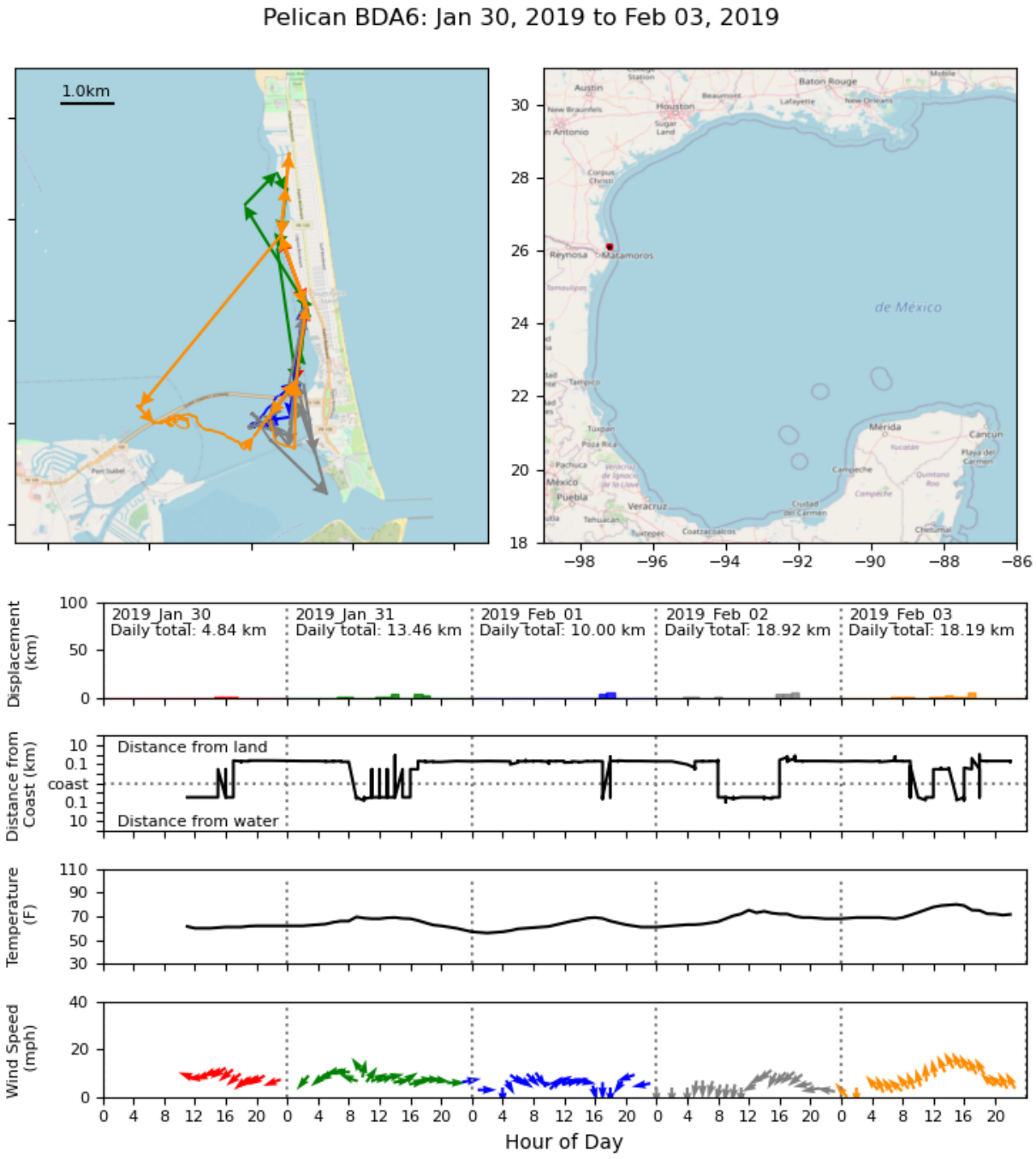

Figure 1202 - Maps and graphs showing movements of BDA6 between 2019-01-30 and 2019-02-02 inclusive.

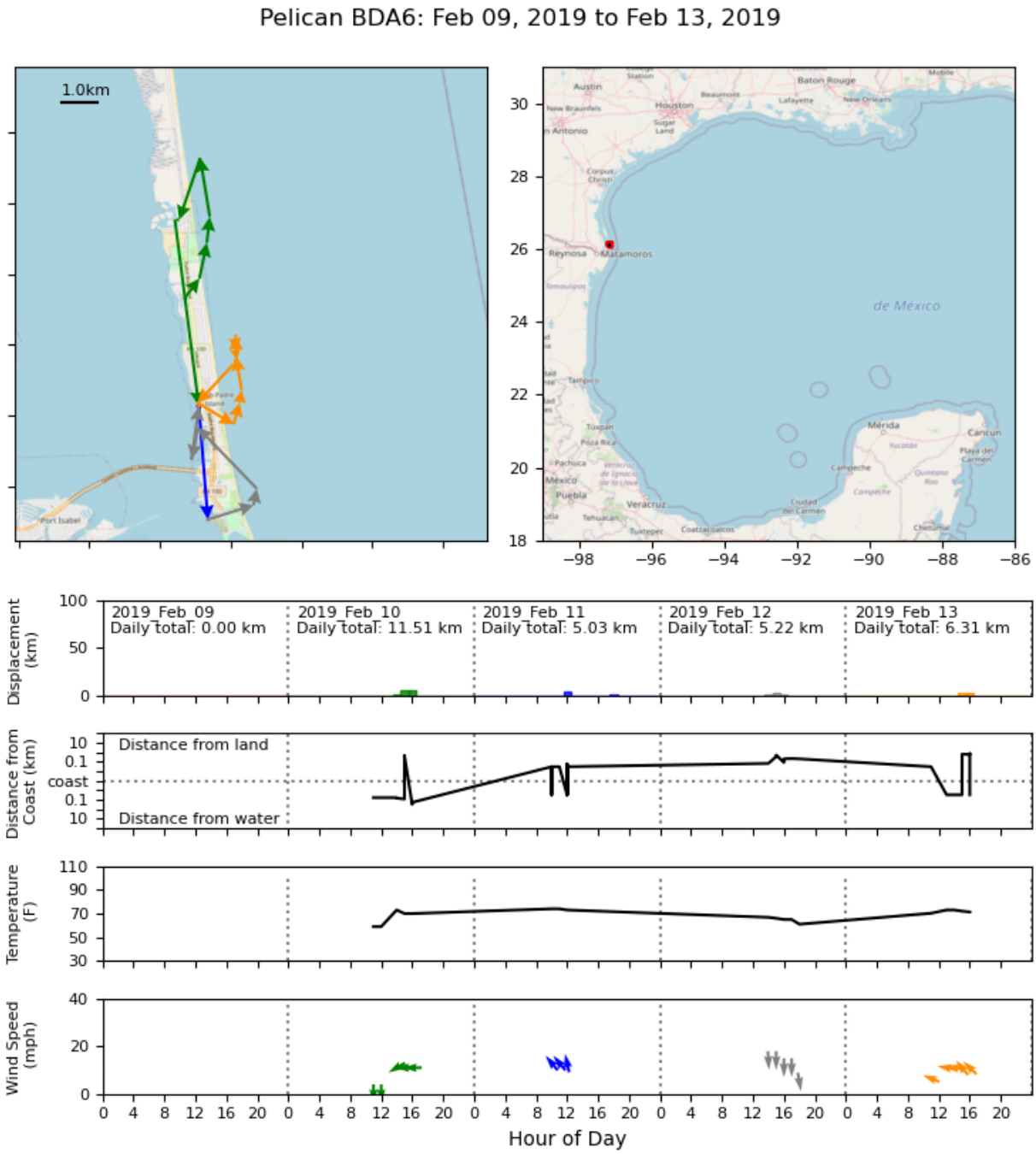

Figure 1203 - Maps and graphs showing movements of BDA6 between 2019-02-09 and 2019-02-12 inclusive.

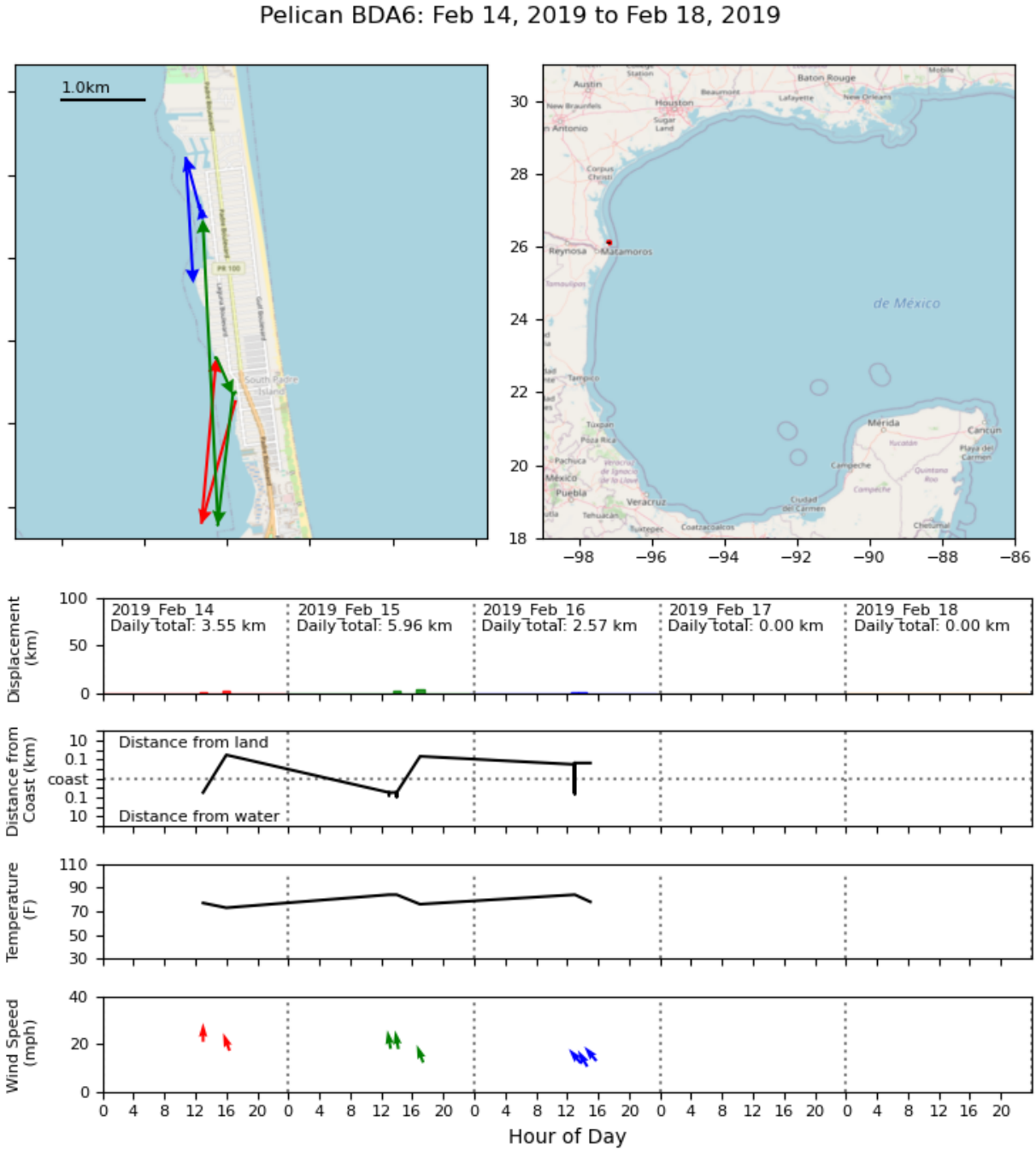

Figure 1204 - Maps and graphs showing movements of BDA6 between 2019-02-14 and 2019-02-17 inclusive.

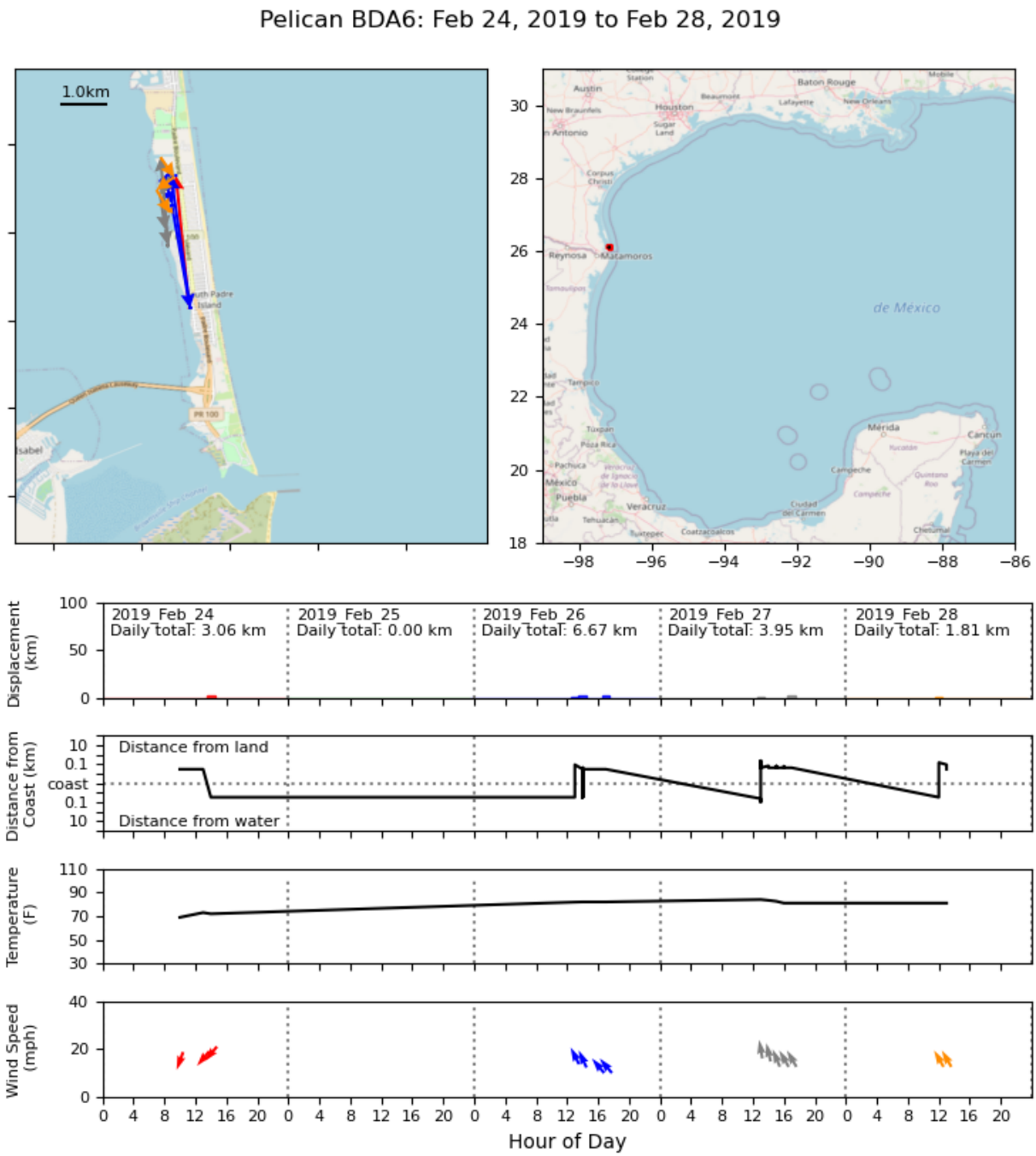

Figure 1205 - Maps and graphs showing movements of BDA6 between 2019-02-24 and 2019-02-27 inclusive.

Pelican A25A - Active from January 30, 2019 to November 09, 2019

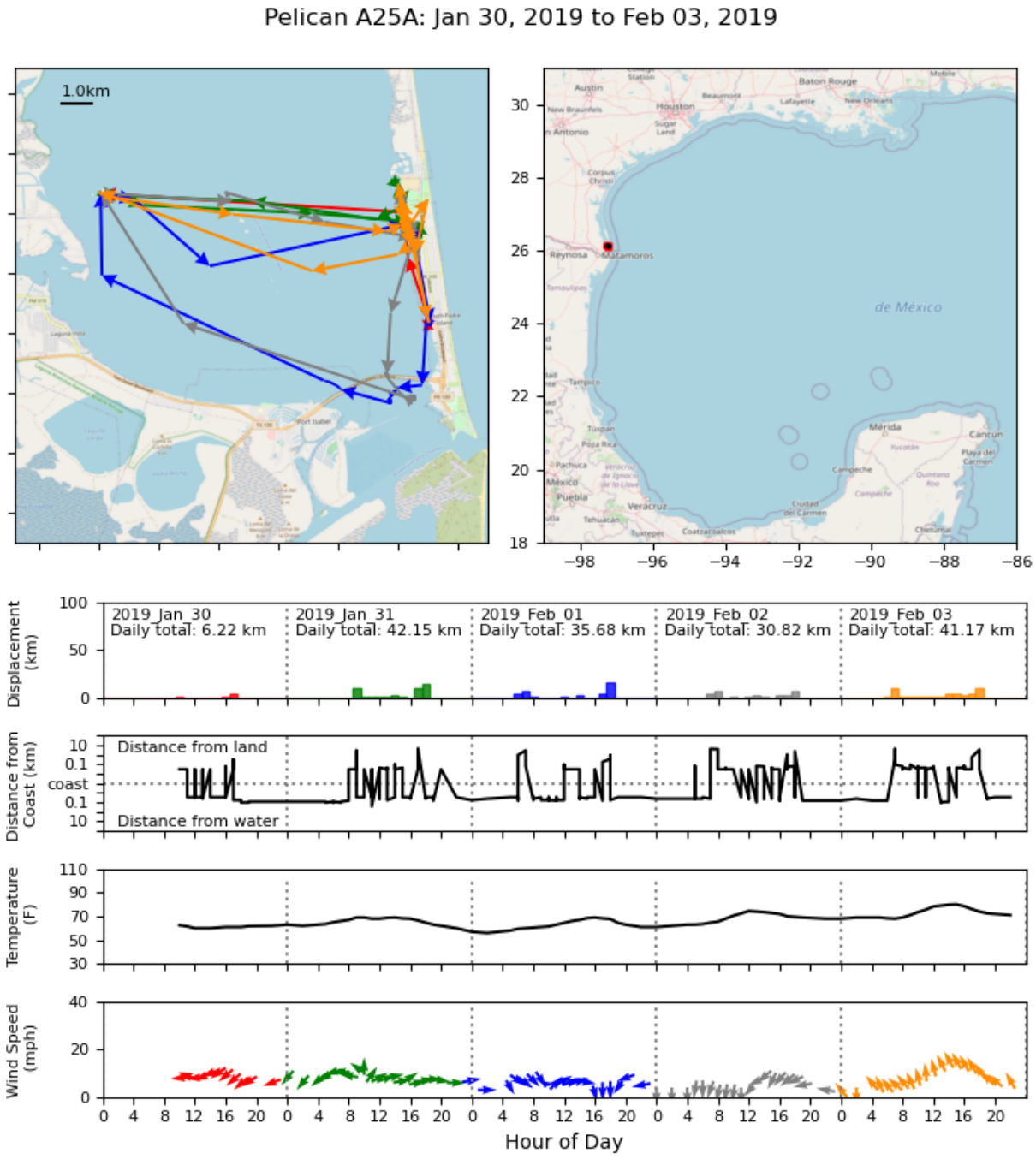

Figure 1206 - Maps and graphs showing movements of A25A between 2019-01-30 and 2019-02-02 inclusive.

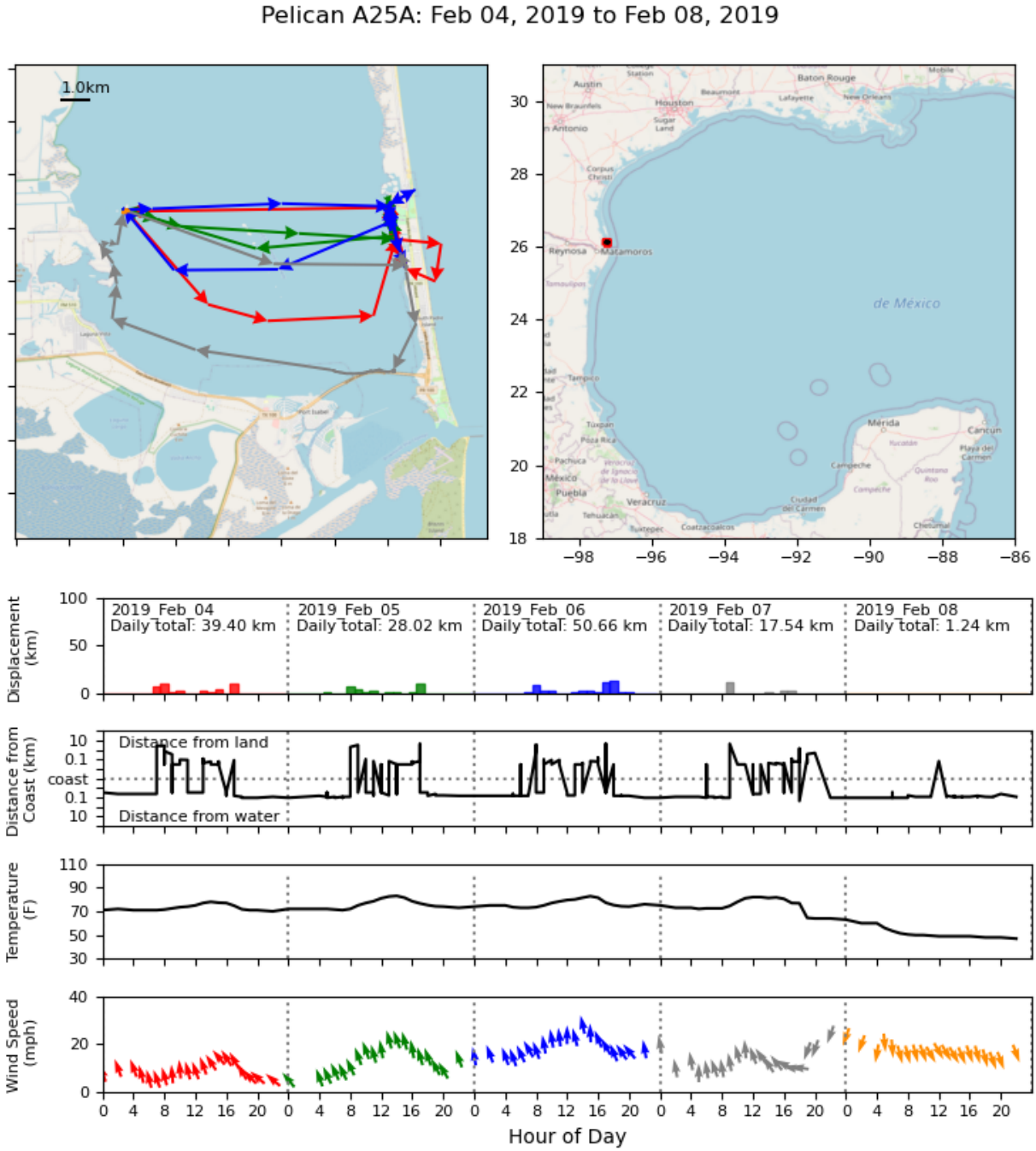

Figure 1207 - Maps and graphs showing movements of A25A between 2019-02-04 and 2019-02-07 inclusive.

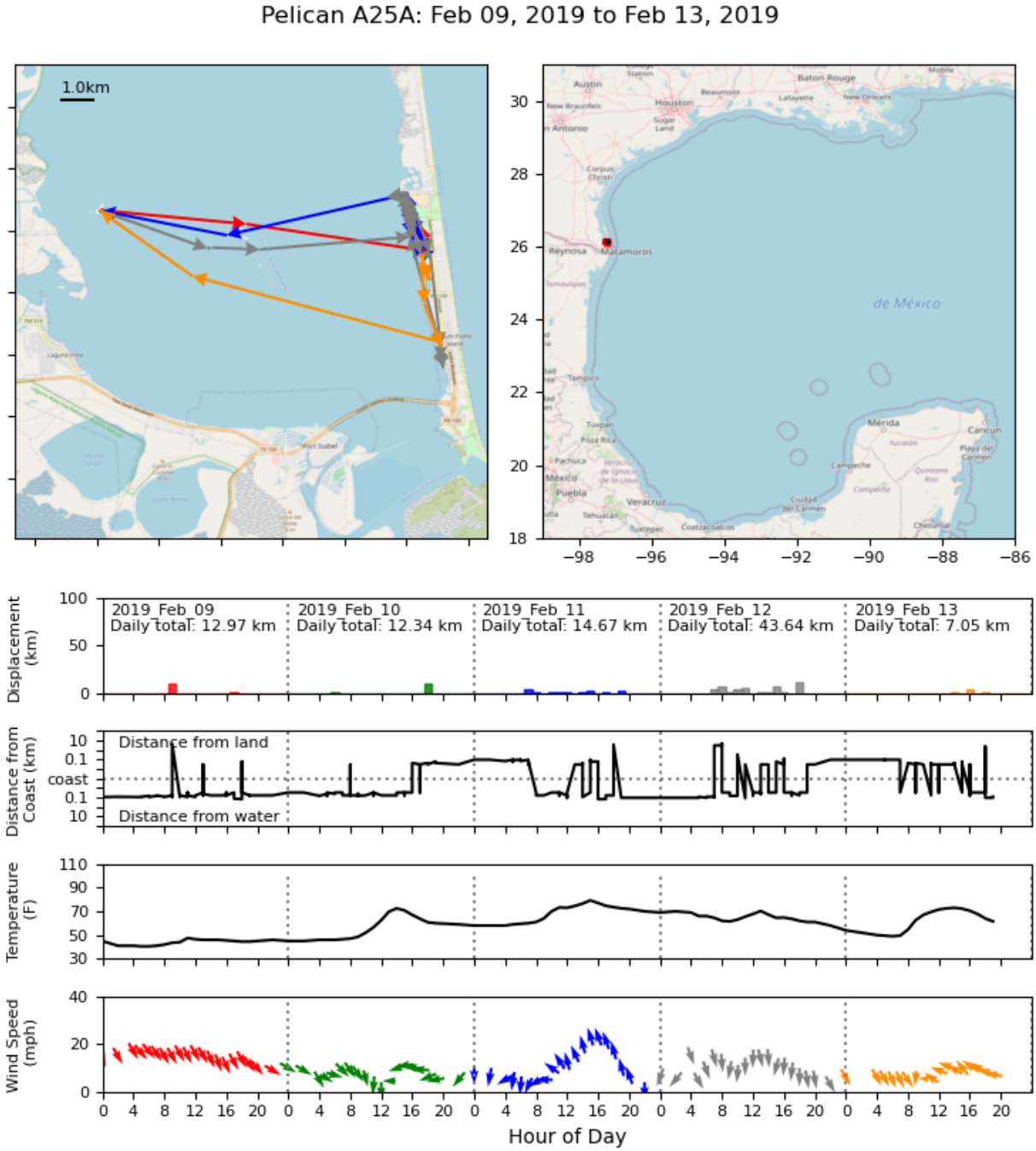

Figure 1208 - Maps and graphs showing movements of A25A between 2019-02-09 and 2019-02-12 inclusive.

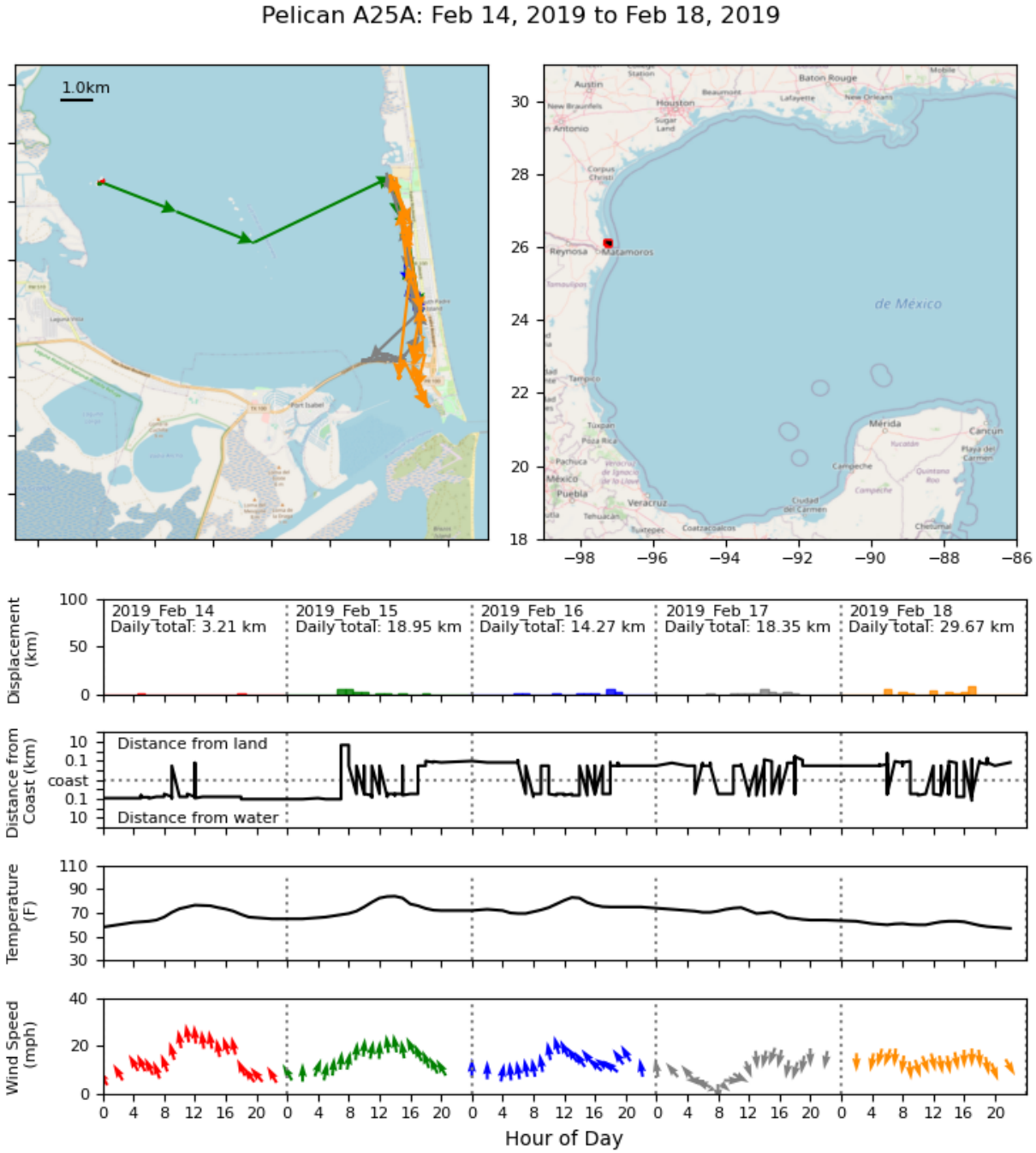

Figure 1209 - Maps and graphs showing movements of A25A between 2019-02-14 and 2019-02-17 inclusive.

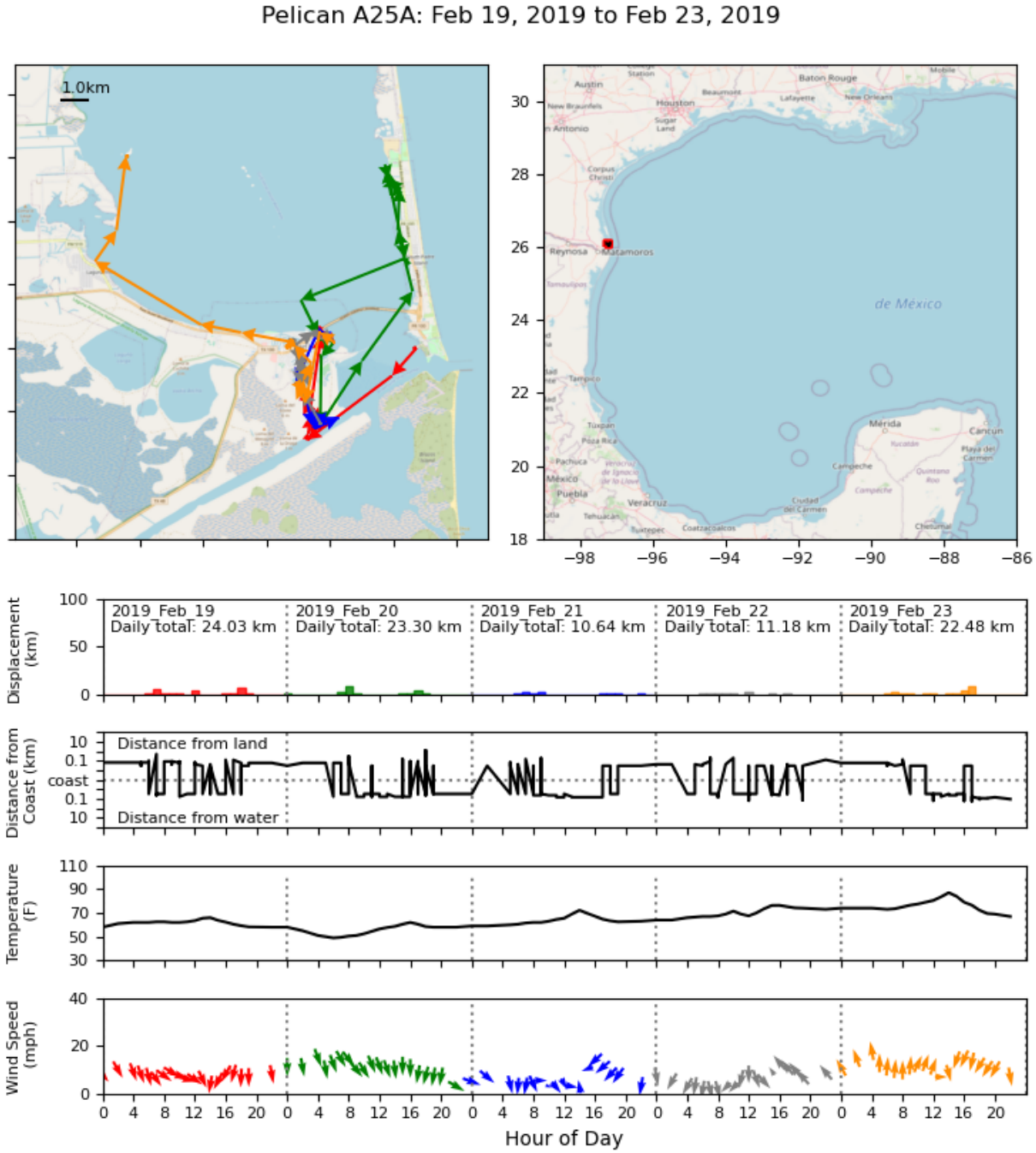

Figure 1210 - Maps and graphs showing movements of A25A between 2019-02-19 and 2019-02-22 inclusive.

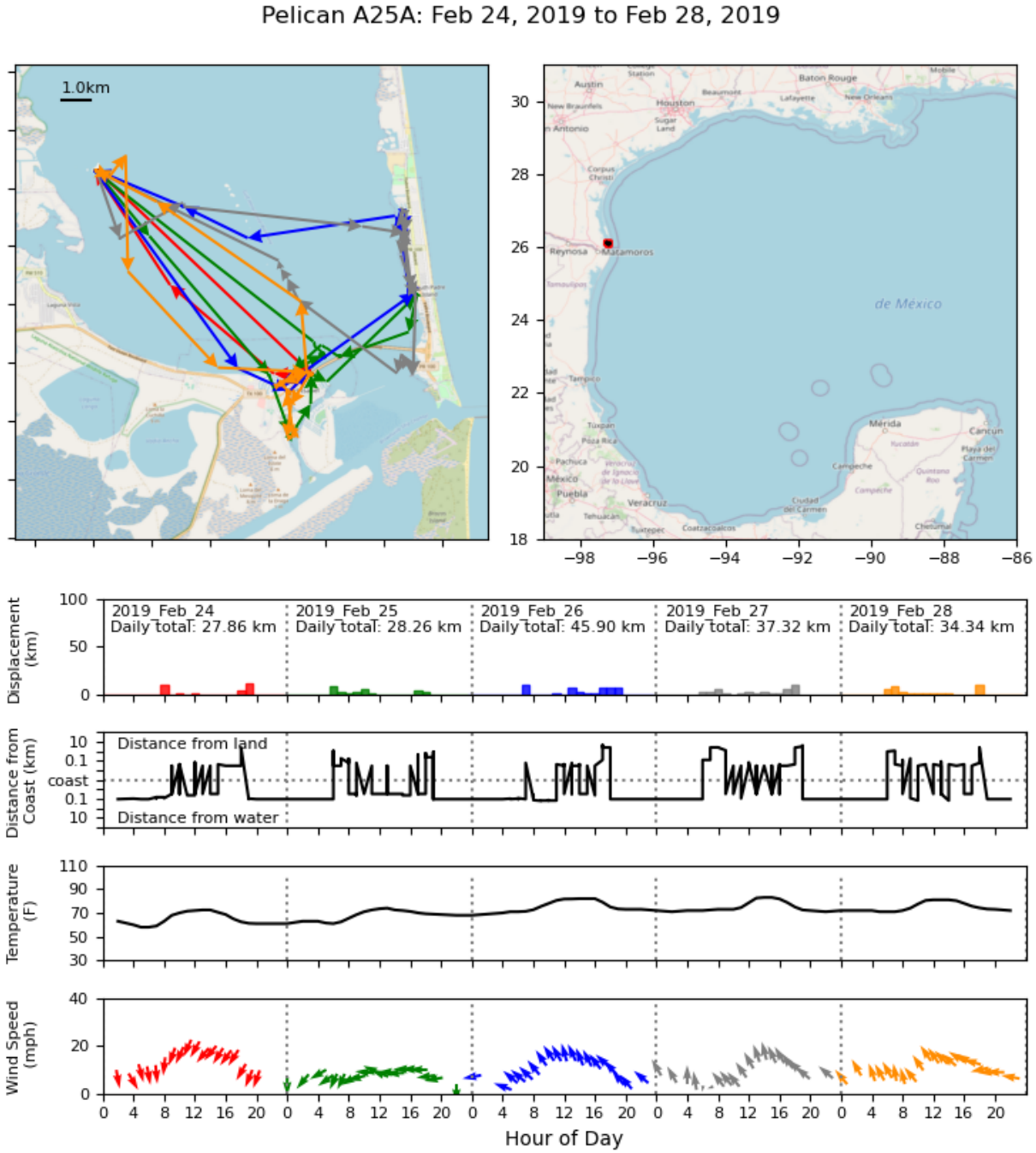

Figure 1211 - Maps and graphs showing movements of A25A between 2019-02-24 and 2019-02-27 inclusive.

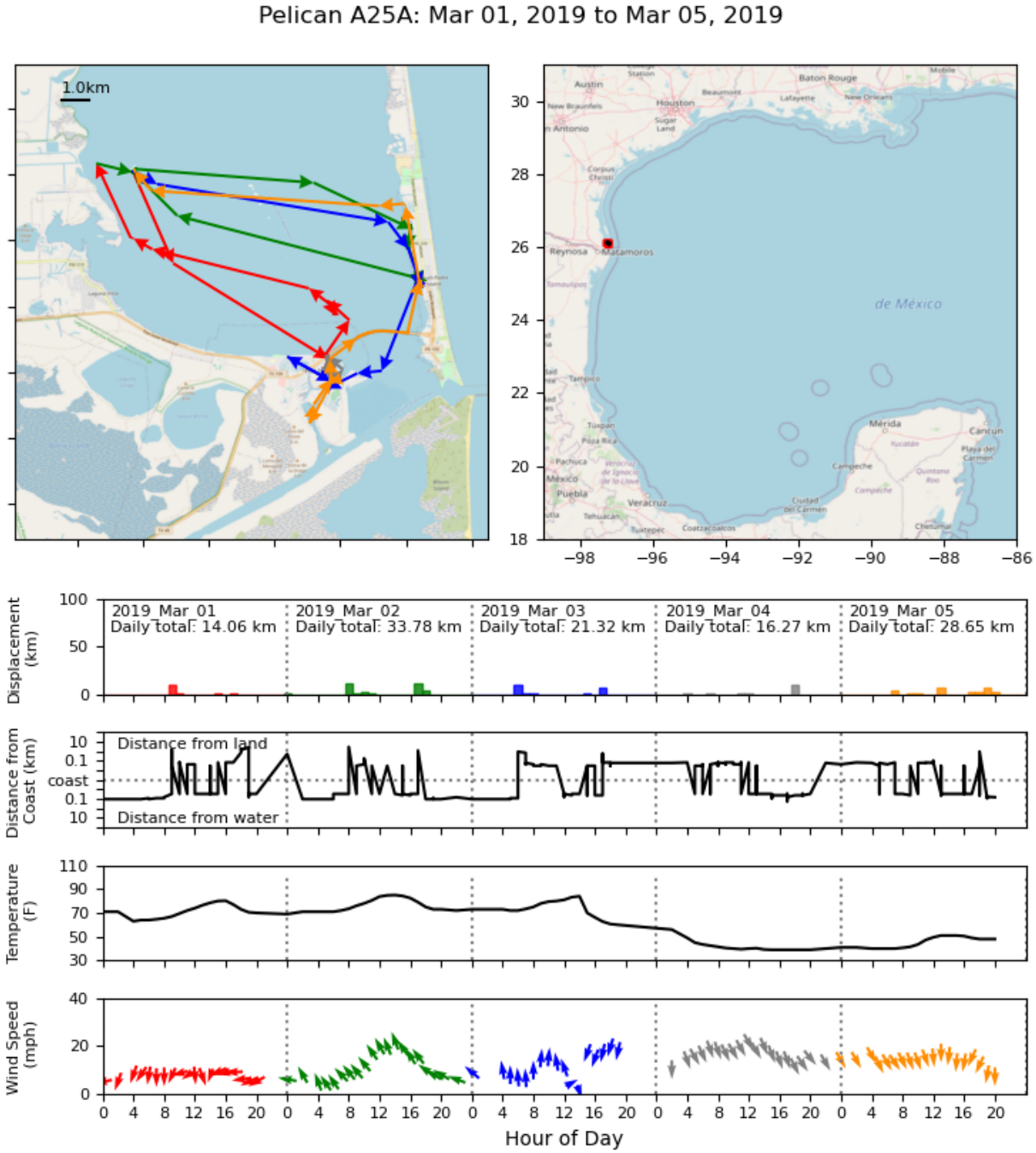

Figure 1212 - Maps and graphs showing movements of A25A between 2019-03-01 and 2019-03-04 inclusive.

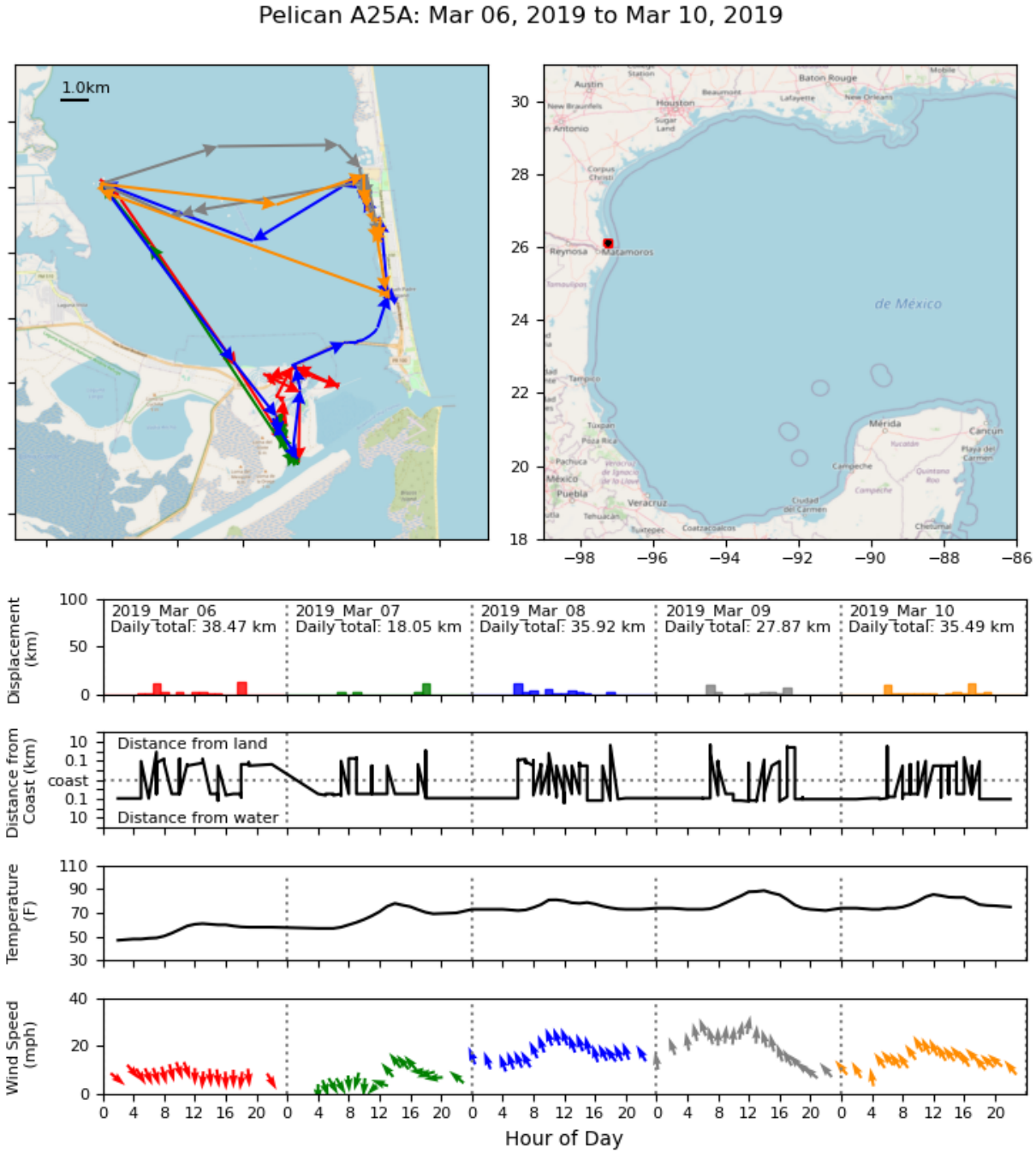

Figure 1213 - Maps and graphs showing movements of A25A between 2019-03-06 and 2019-03-09 inclusive.

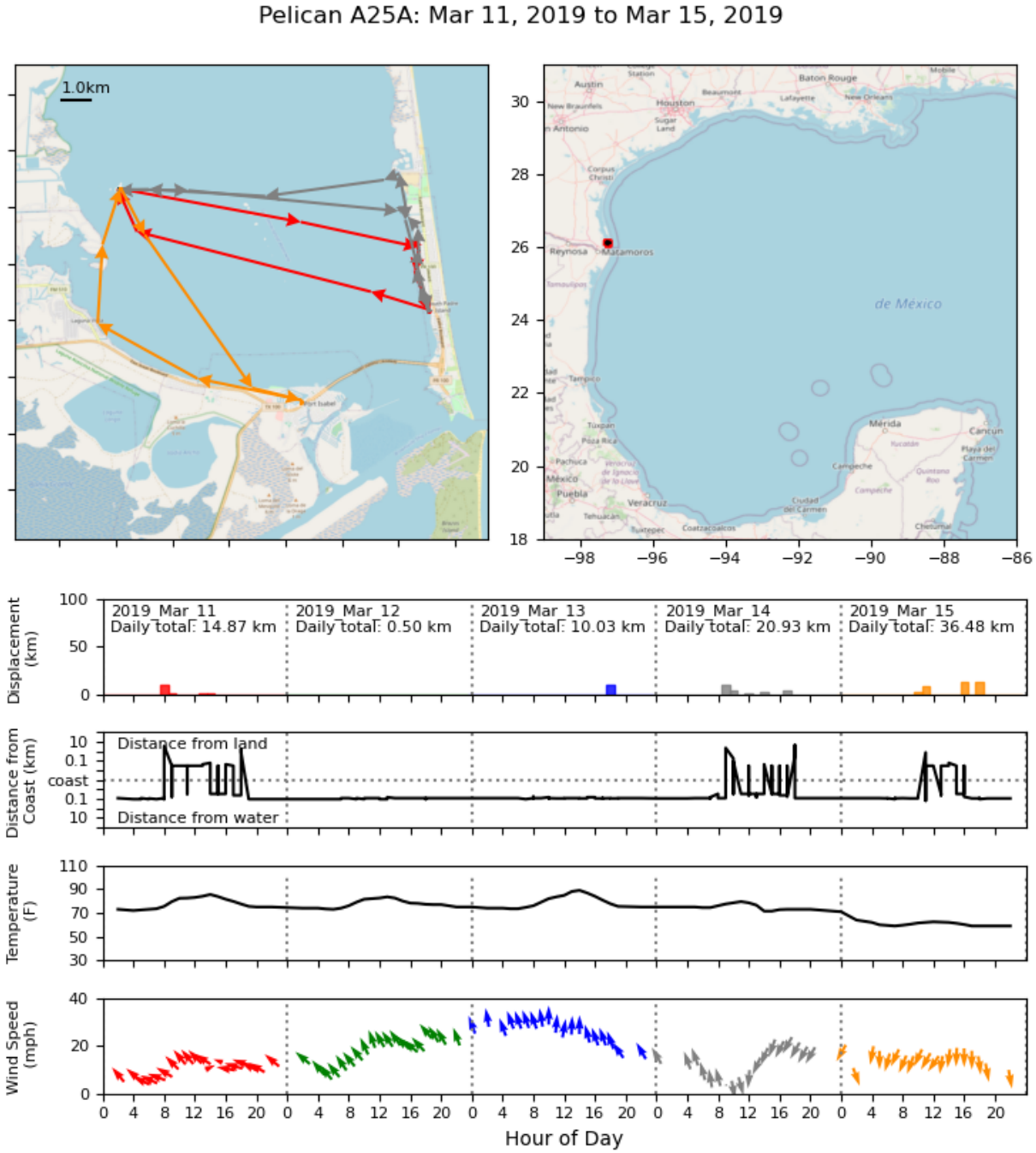

Figure 1214 - Maps and graphs showing movements of A25A between 2019-03-11 and 2019-03-14 inclusive.

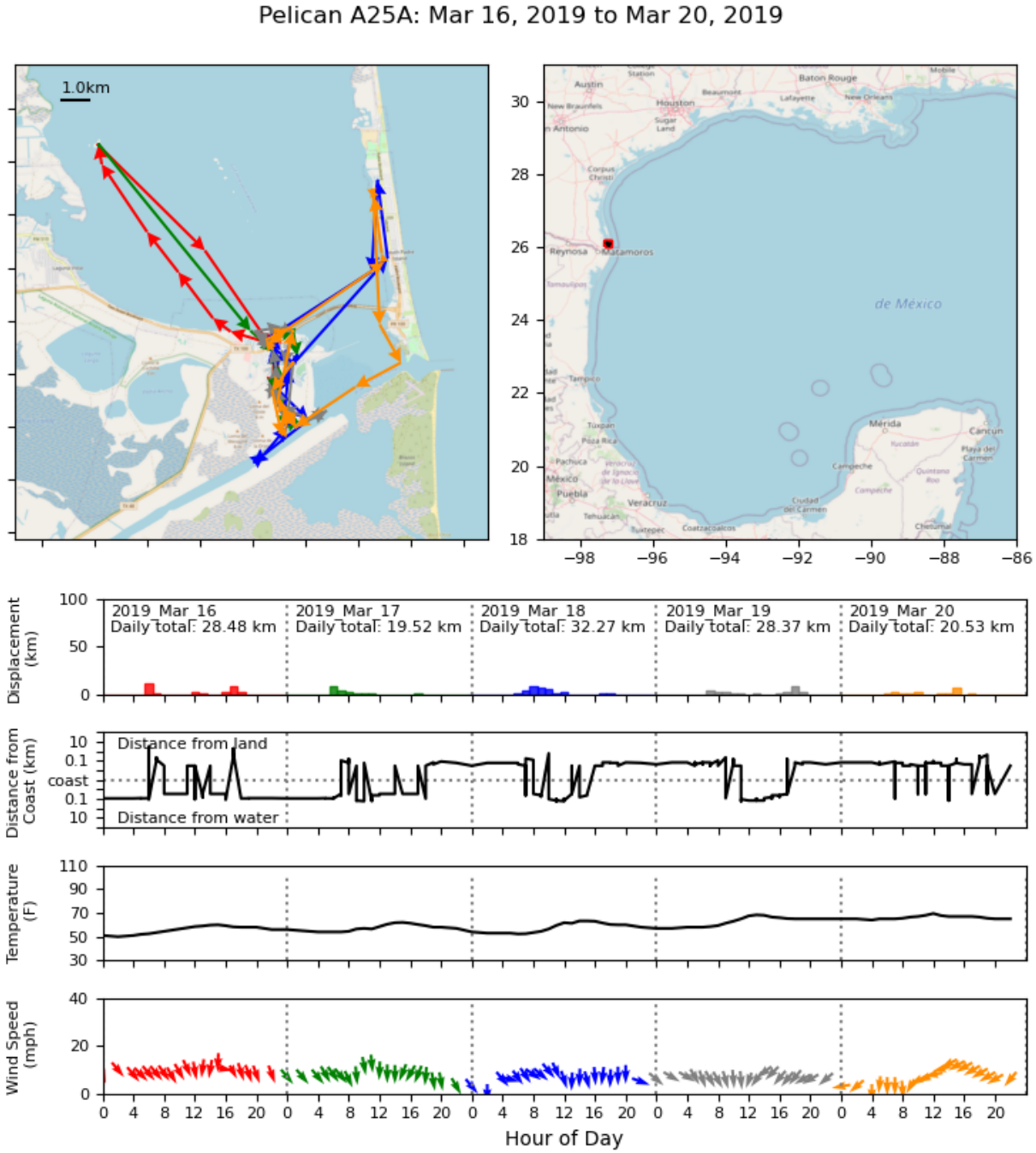

Figure 1215 - Maps and graphs showing movements of A25A between 2019-03-16 and 2019-03-19 inclusive.

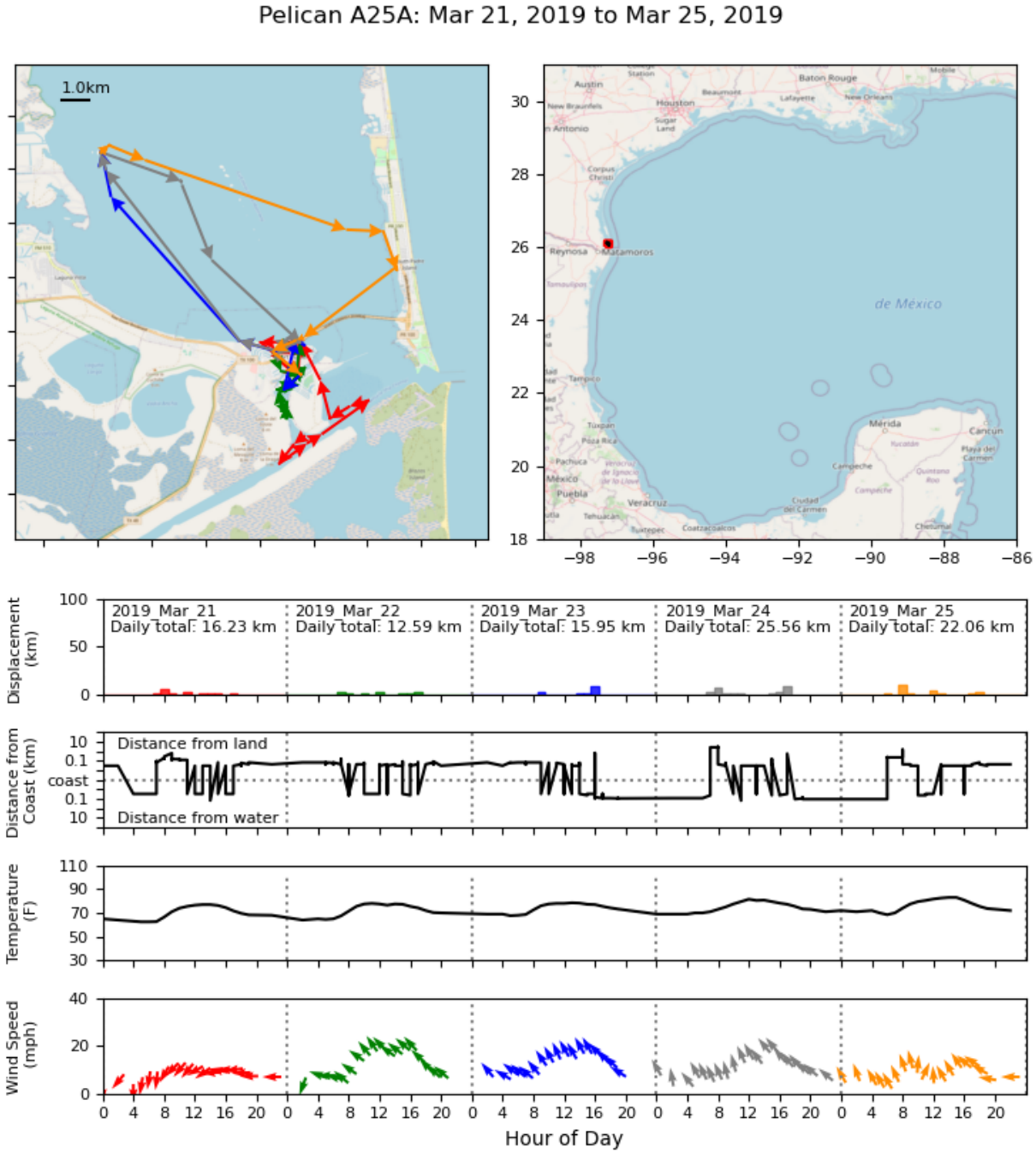

Figure 1216 - Maps and graphs showing movements of A25A between 2019-03-21 and 2019-03-24 inclusive.

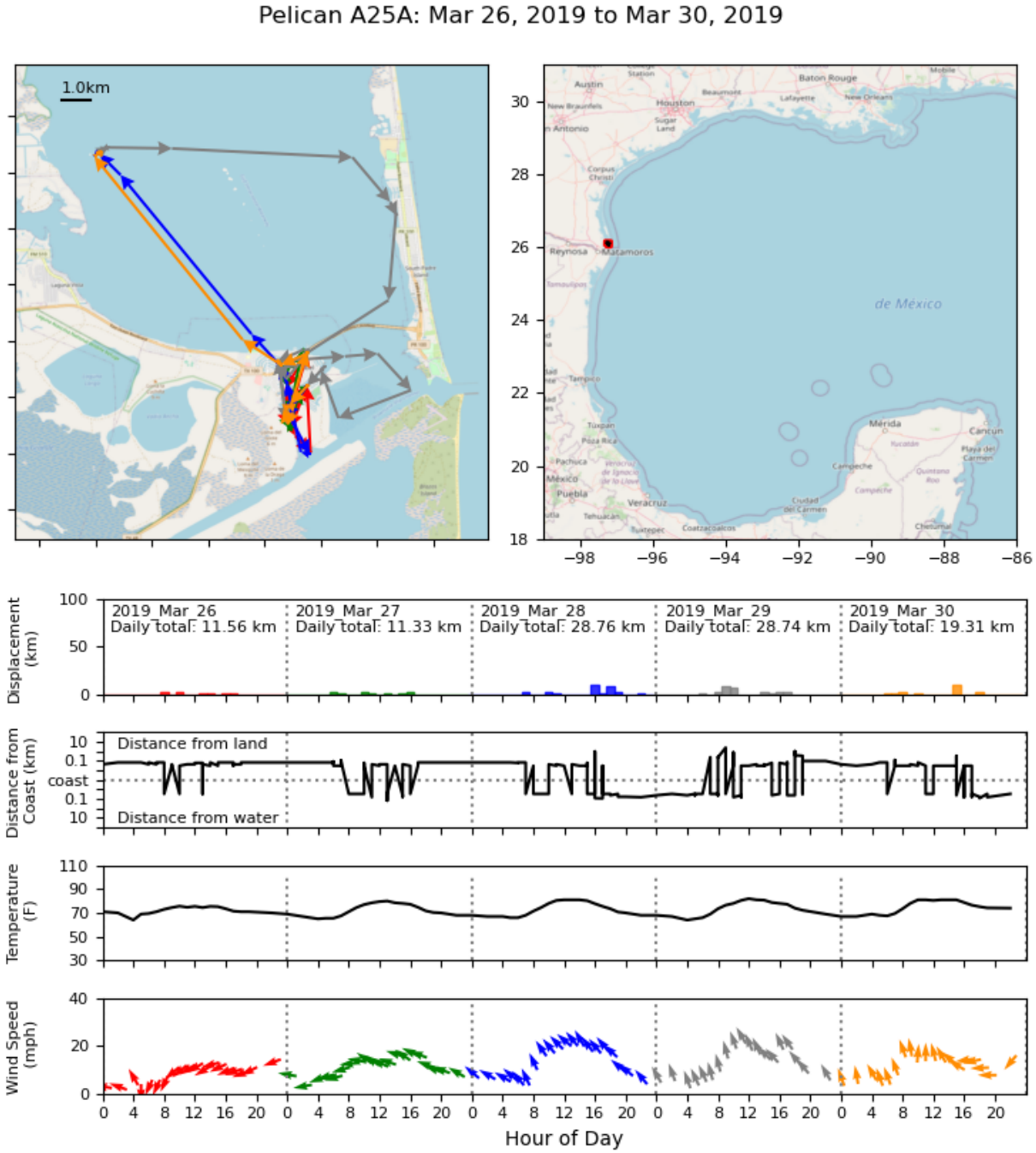

Figure 1217 - Maps and graphs showing movements of A25A between 2019-03-26 and 2019-03-29 inclusive.

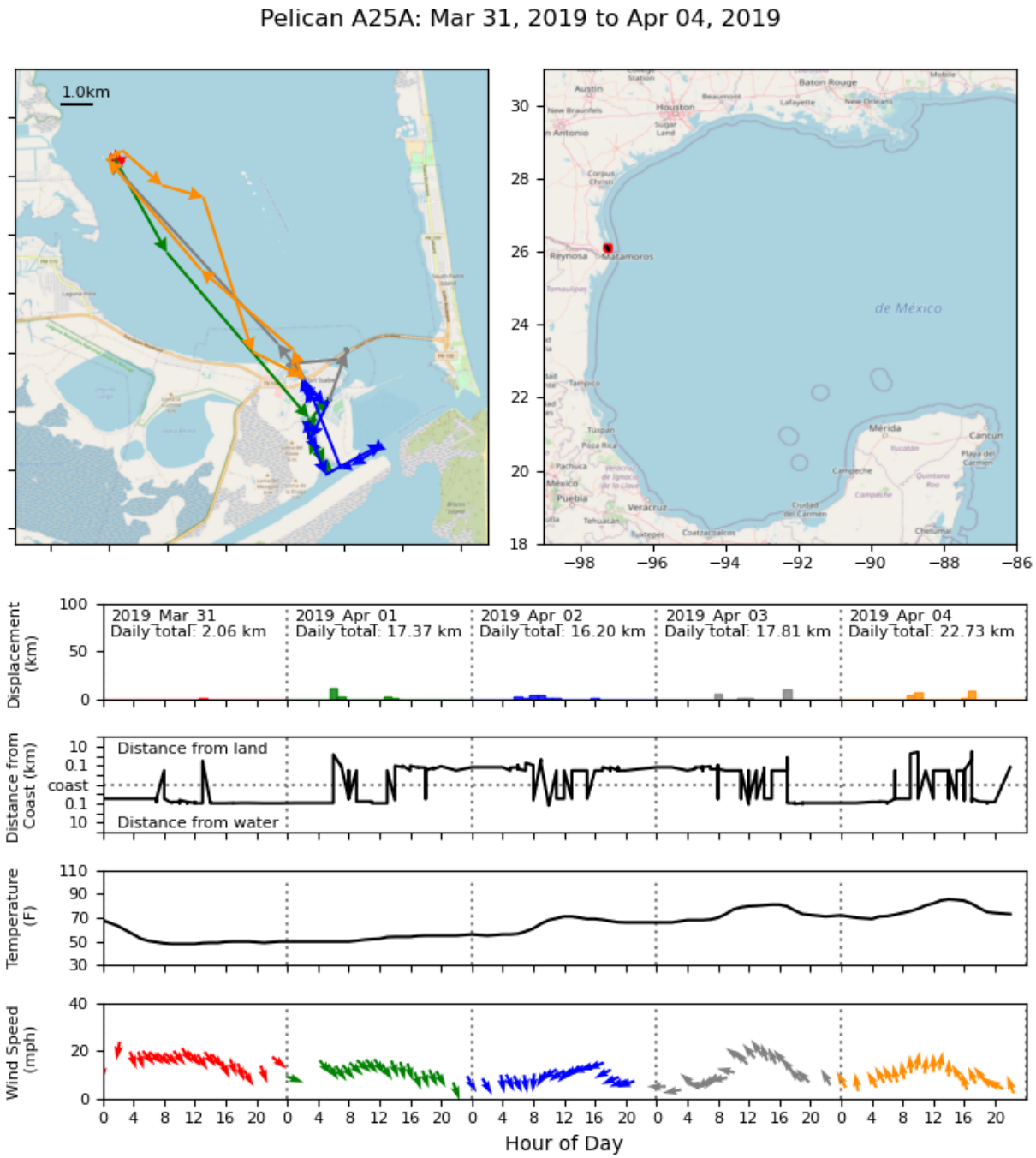

Figure 1218 - Maps and graphs showing movements of A25A between 2019-03-31 and 2019-04-03 inclusive.

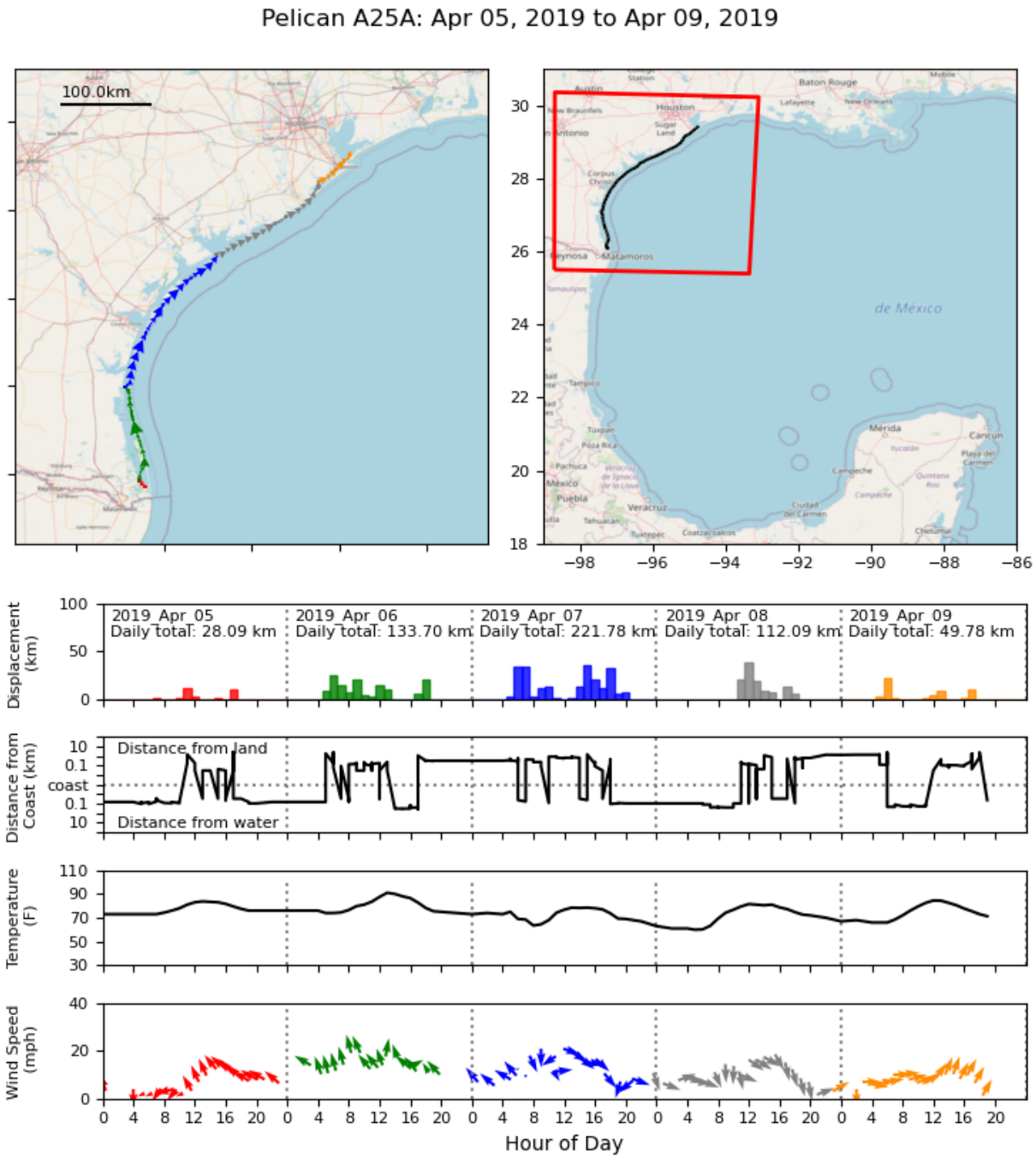

Figure 1219 - Maps and graphs showing movements of A25A between 2019-04-05 and 2019-04-08 inclusive.

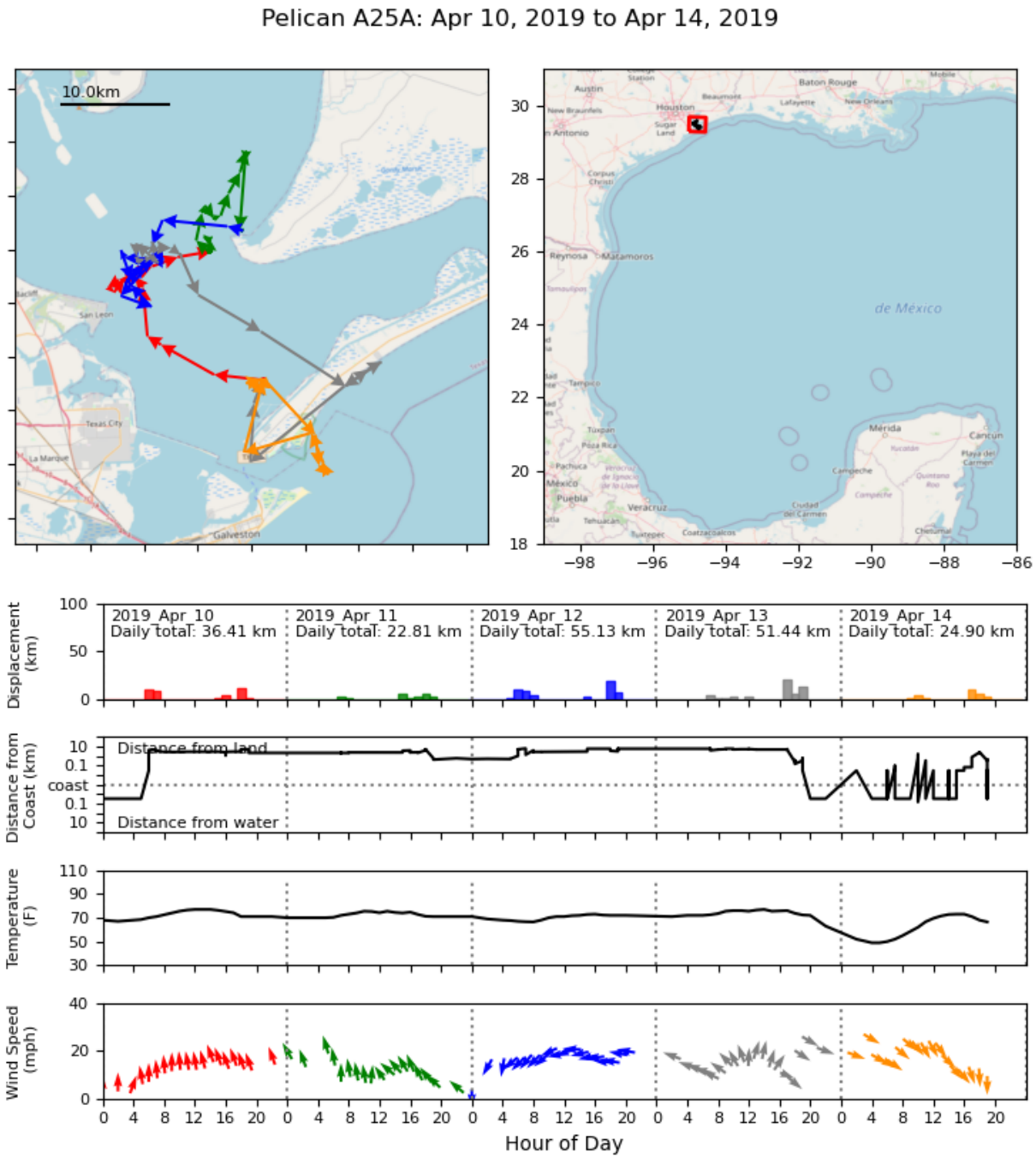

Figure 1220 - Maps and graphs showing movements of A25A between 2019-04-10 and 2019-04-13 inclusive.

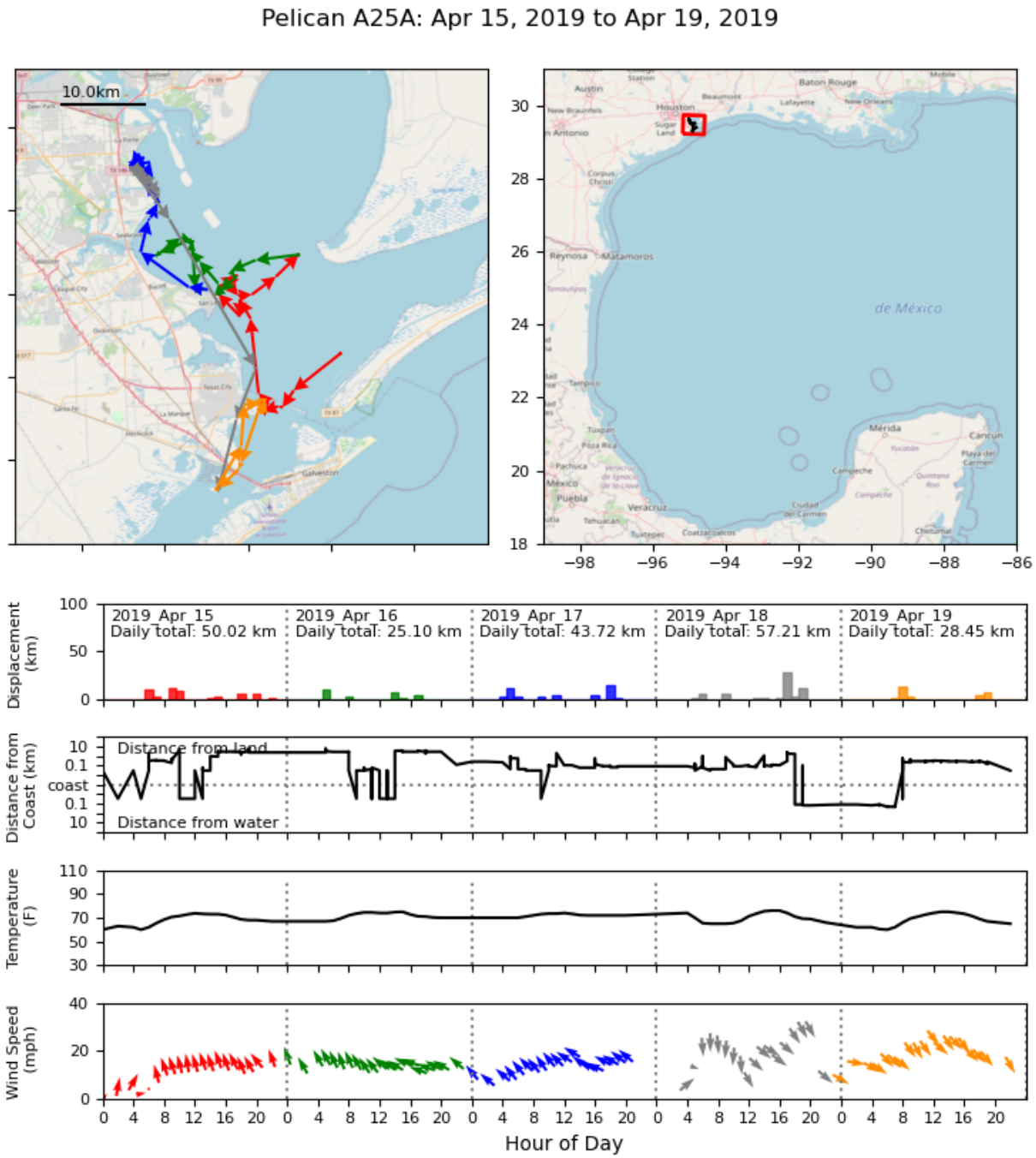

Figure 1221 - Maps and graphs showing movements of A25A between 2019-04-15 and 2019-04-18 inclusive.

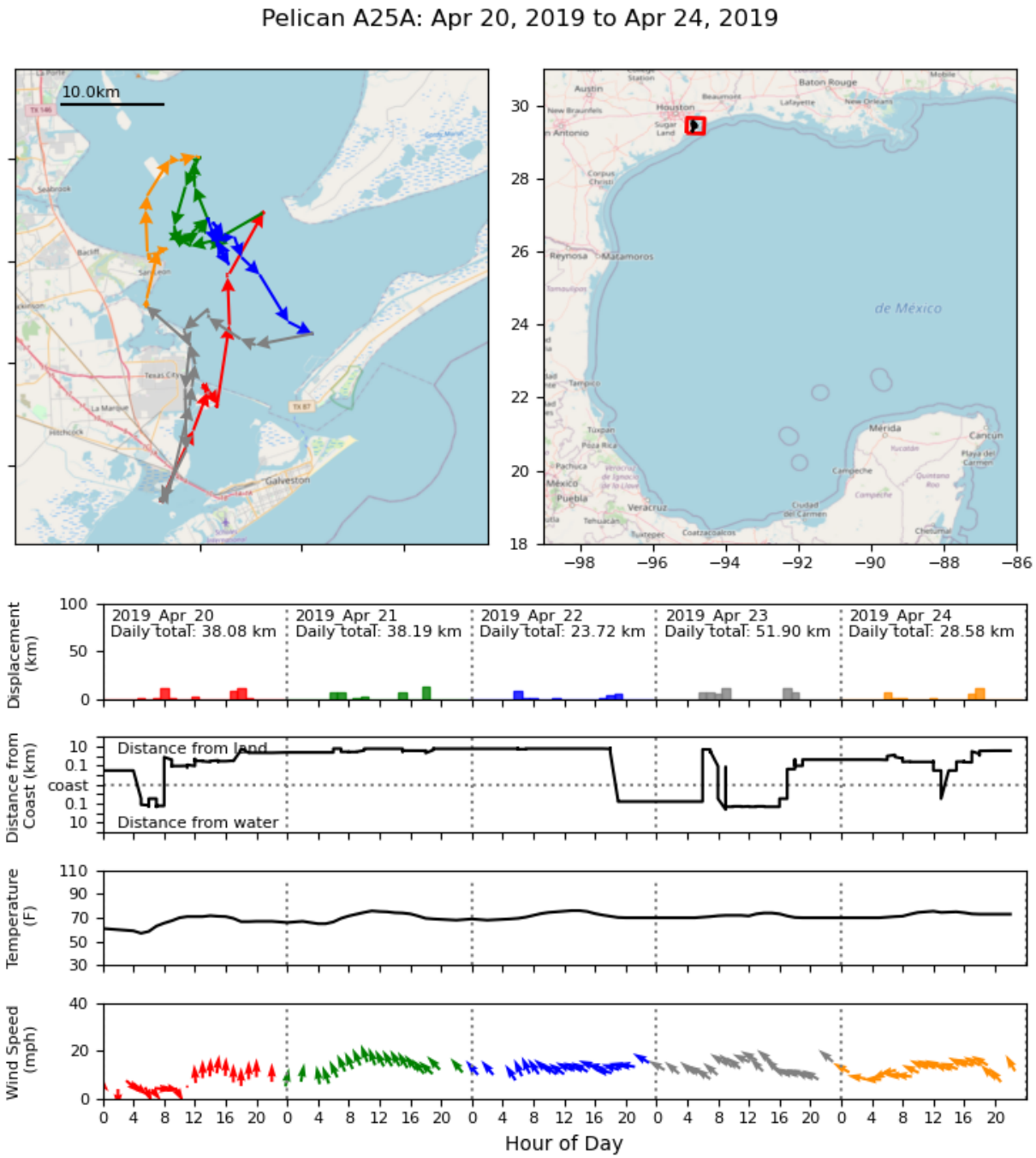

Figure 1222 - Maps and graphs showing movements of A25A between 2019-04-20 and 2019-04-23 inclusive.

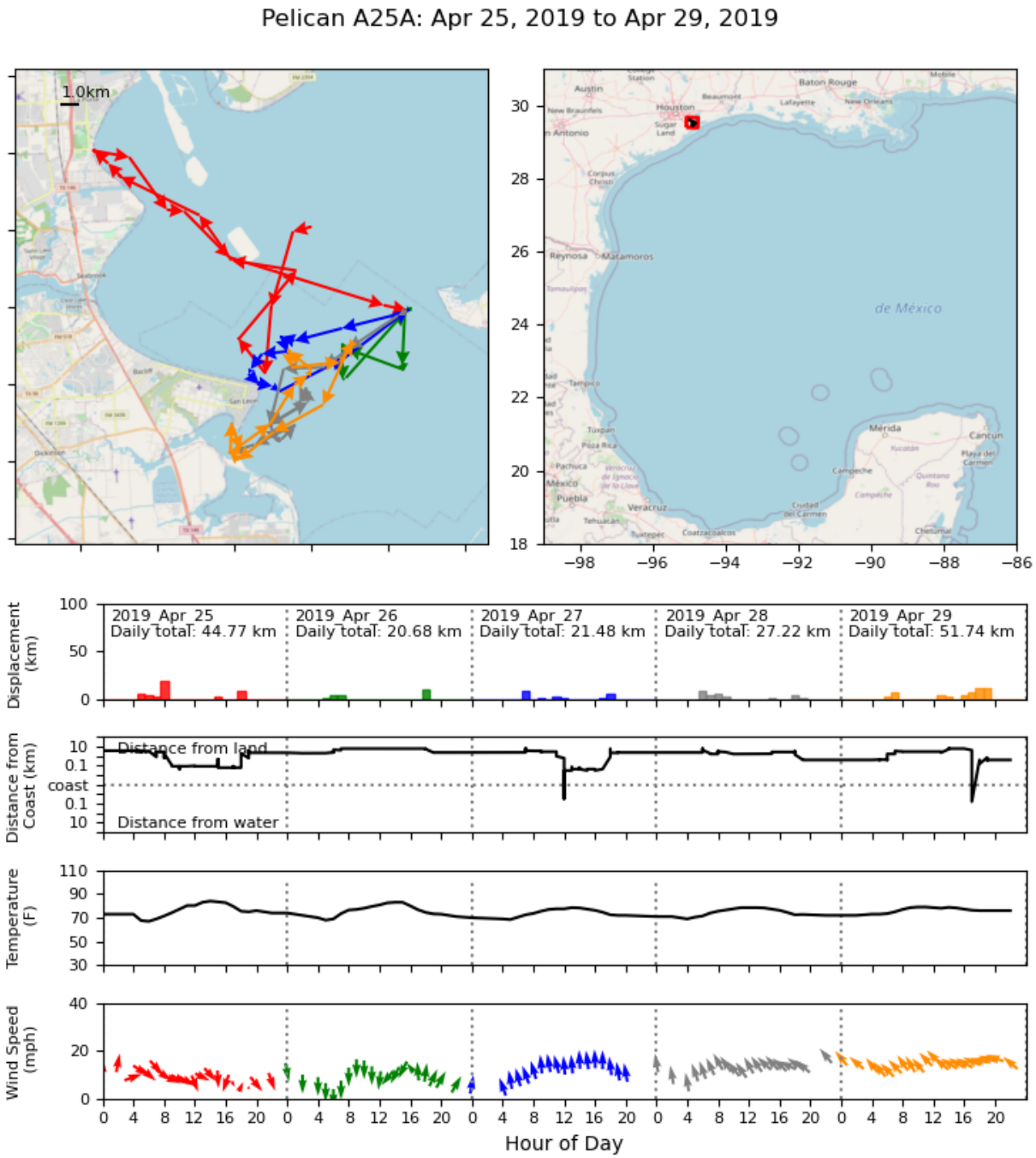

Figure 1223 - Maps and graphs showing movements of A25A between 2019-04-25 and 2019-04-28 inclusive.

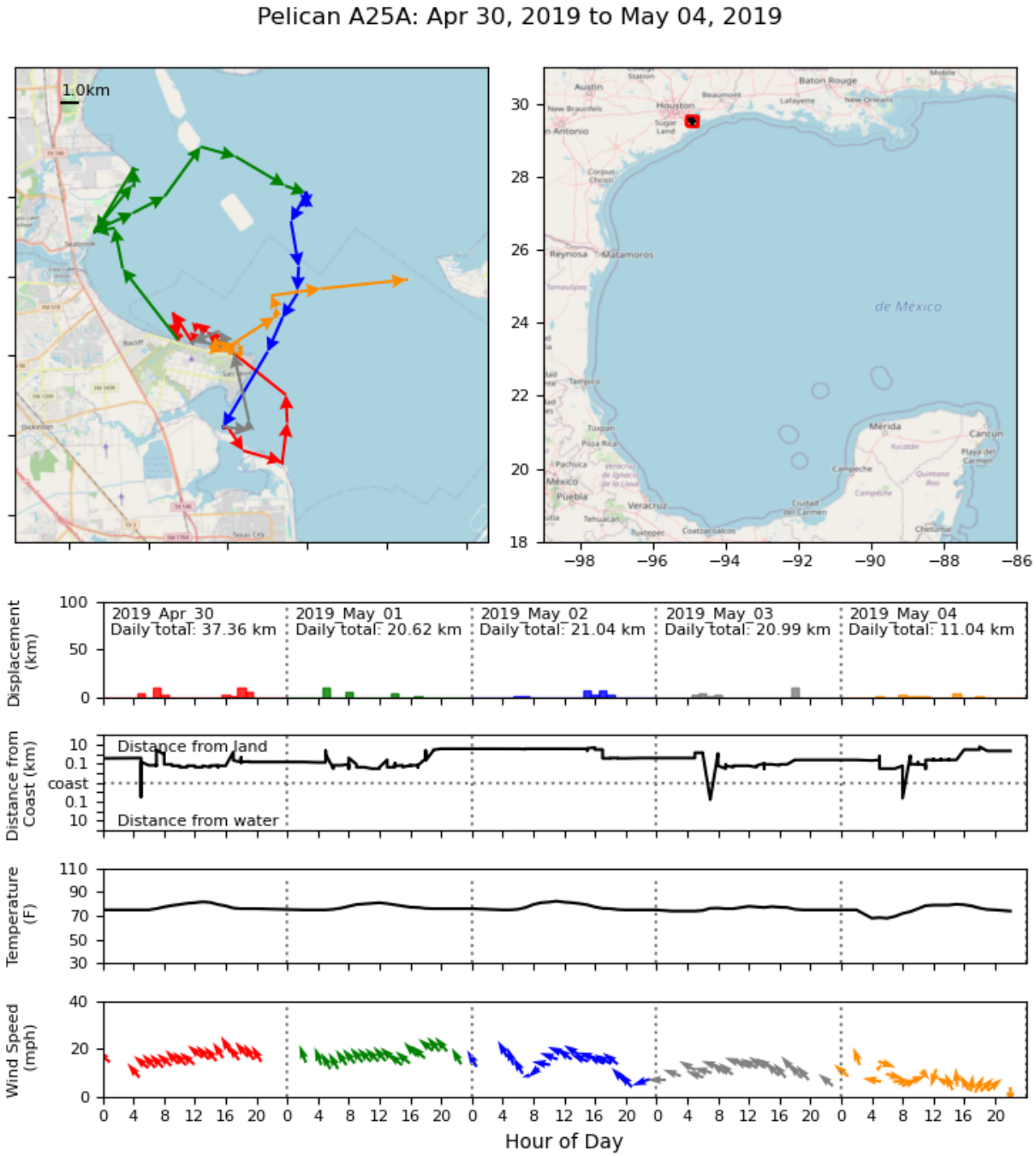

Figure 1224 - Maps and graphs showing movements of A25A between 2019-04-30 and 2019-05-03 inclusive.

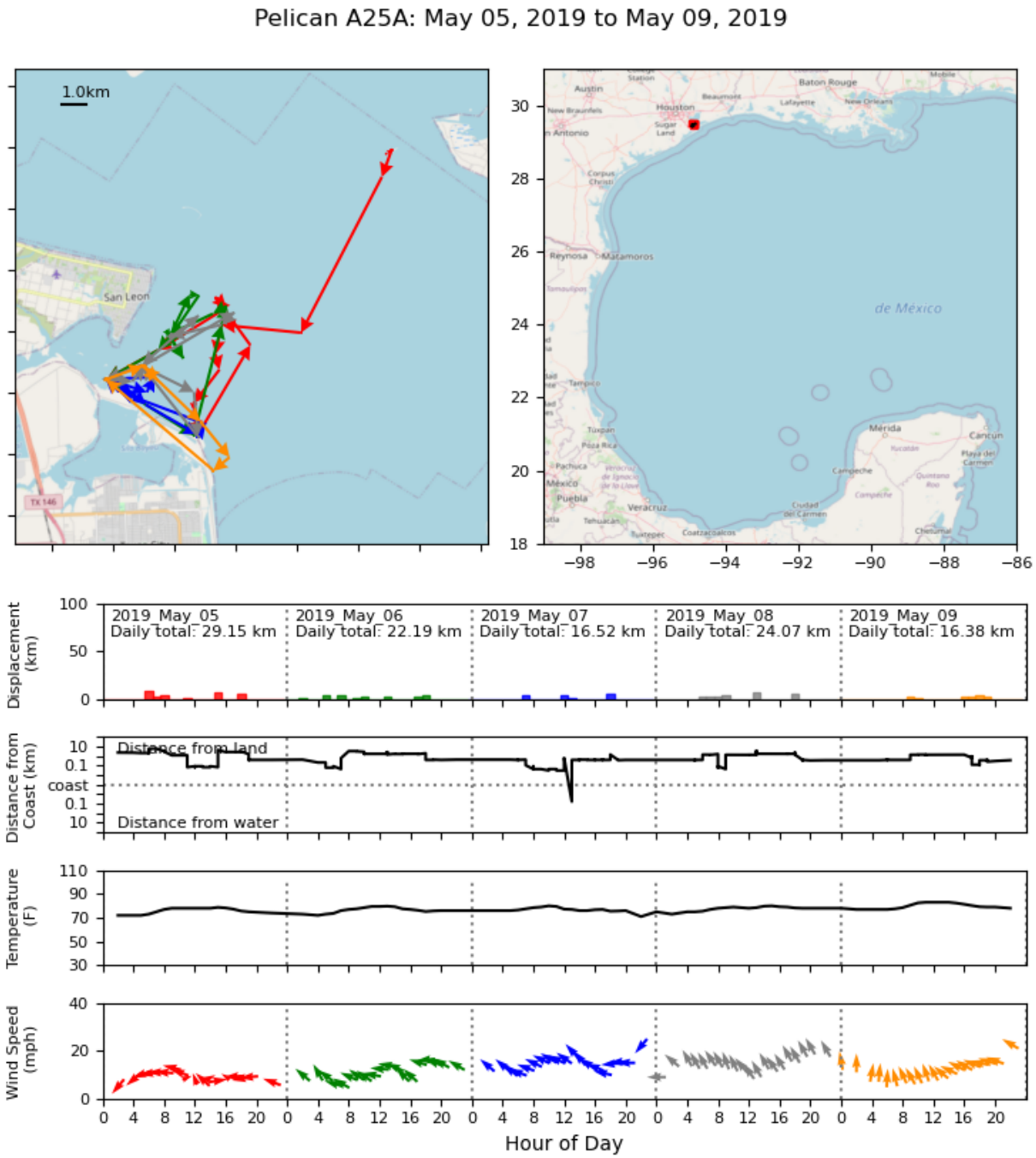

Figure 1225 - Maps and graphs showing movements of A25A between 2019-05-05 and 2019-05-08 inclusive.

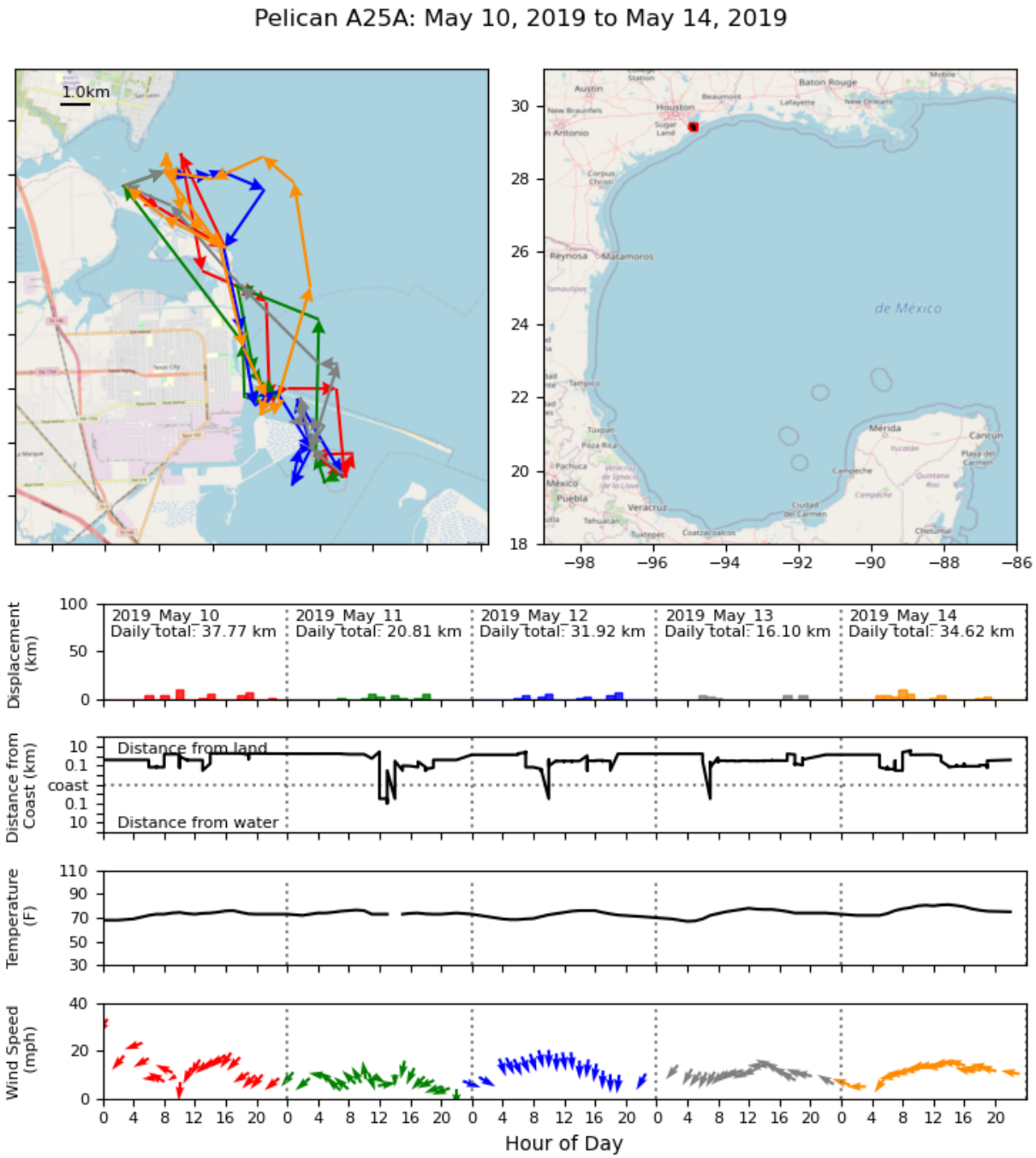

Figure 1226 - Maps and graphs showing movements of A25A between 2019-05-10 and 2019-05-13 inclusive.

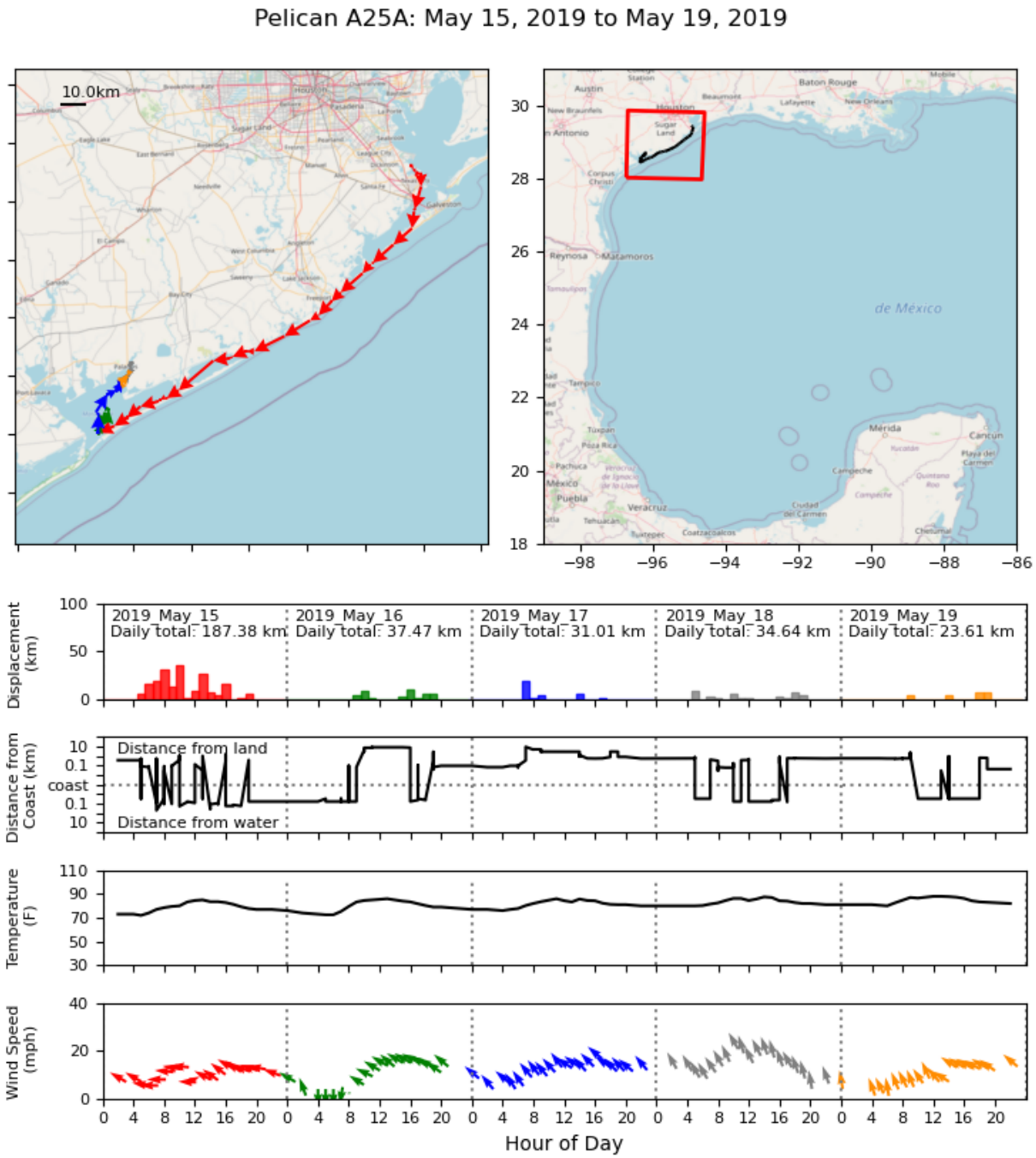

Figure 1227 - Maps and graphs showing movements of A25A between 2019-05-15 and 2019-05-18 inclusive.

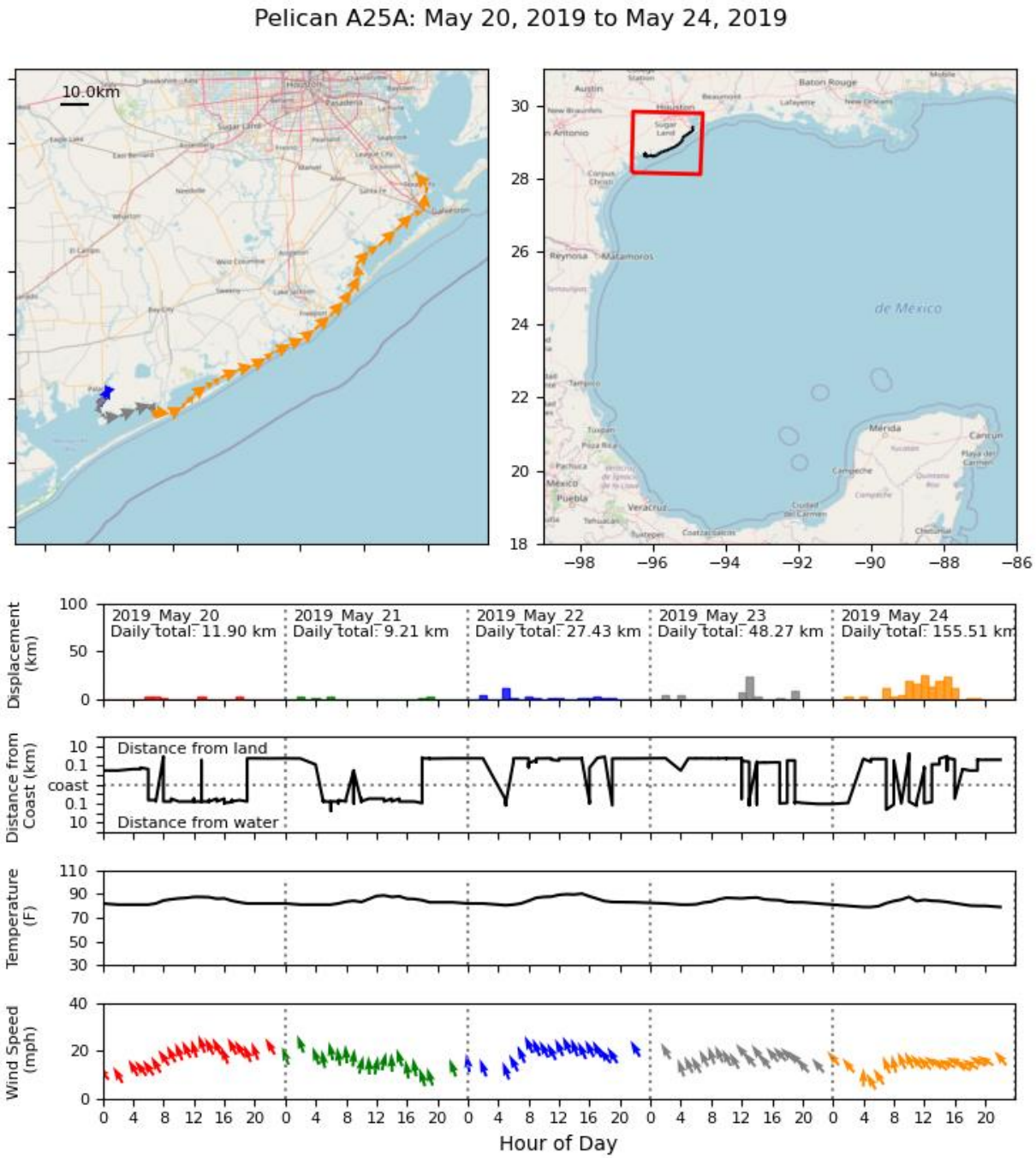

Figure 1228 - Maps and graphs showing movements of A25A between 2019-05-20 and 2019-05-23 inclusive.

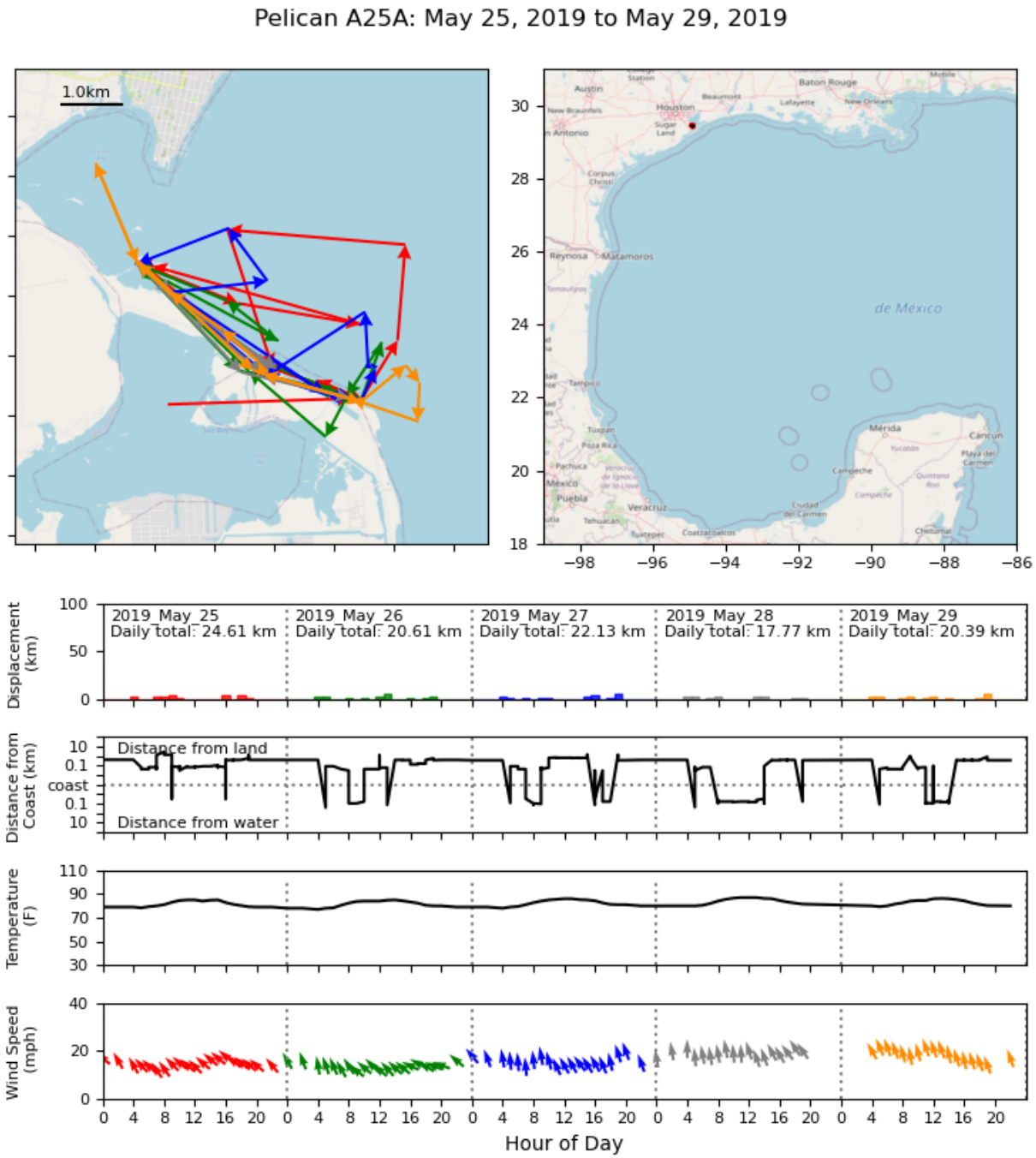

Figure 1229 - Maps and graphs showing movements of A25A between 2019-05-25 and 2019-05-28 inclusive.

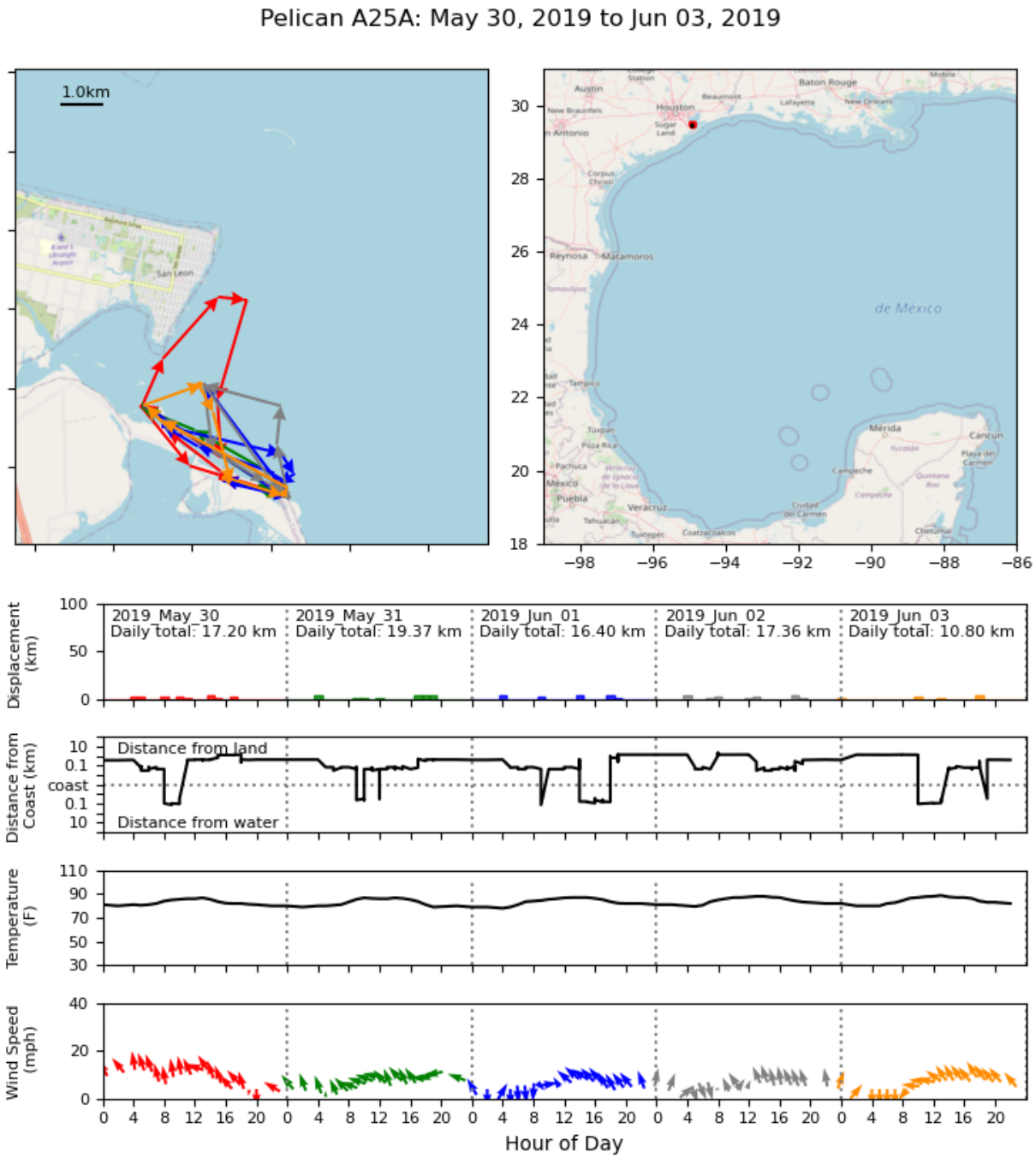

Figure 1230 - Maps and graphs showing movements of A25A between 2019-05-30 and 2019-06-02 inclusive.

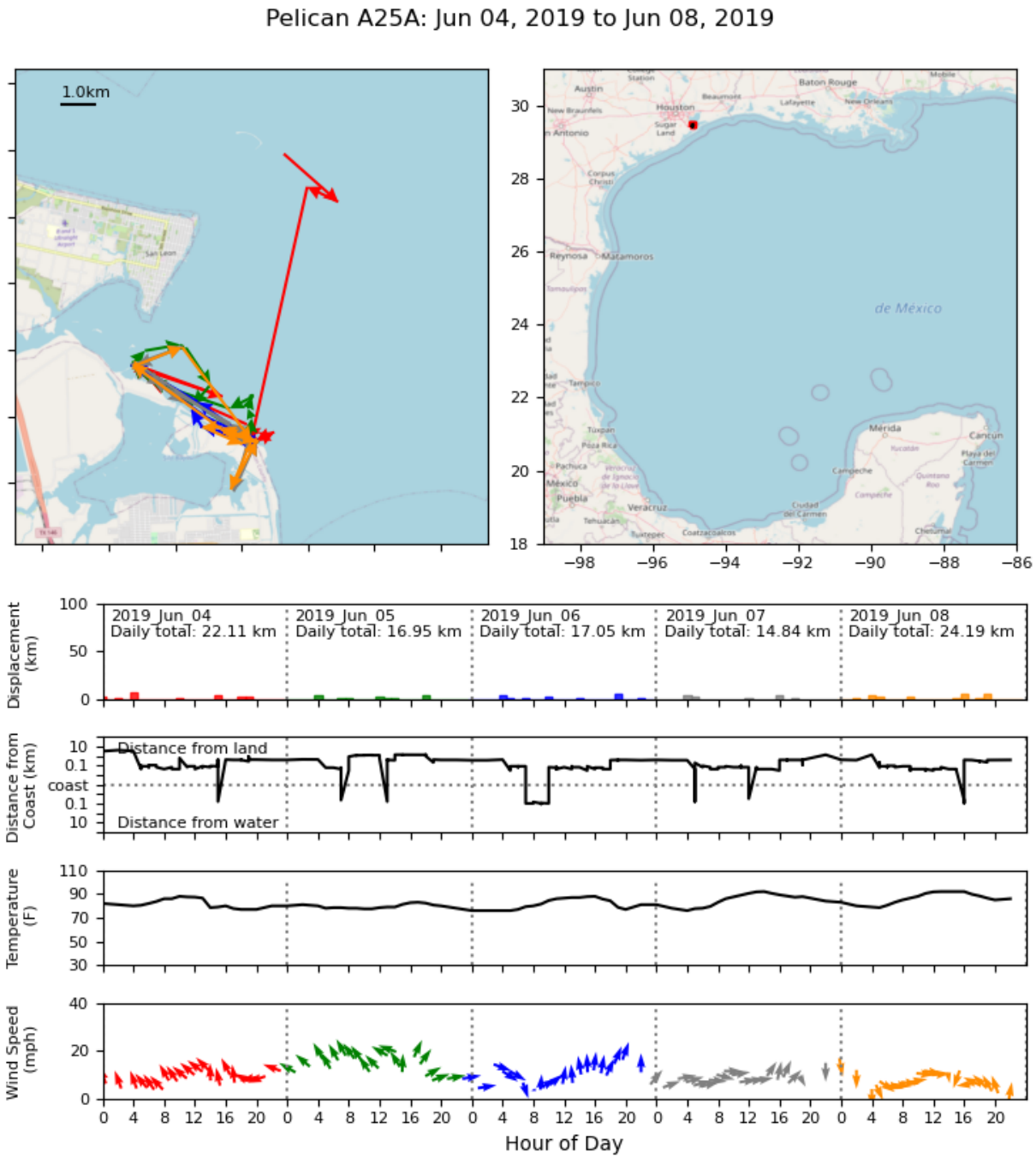

Figure 1231 - Maps and graphs showing movements of A25A between 2019-06-04 and 2019-06-07 inclusive.

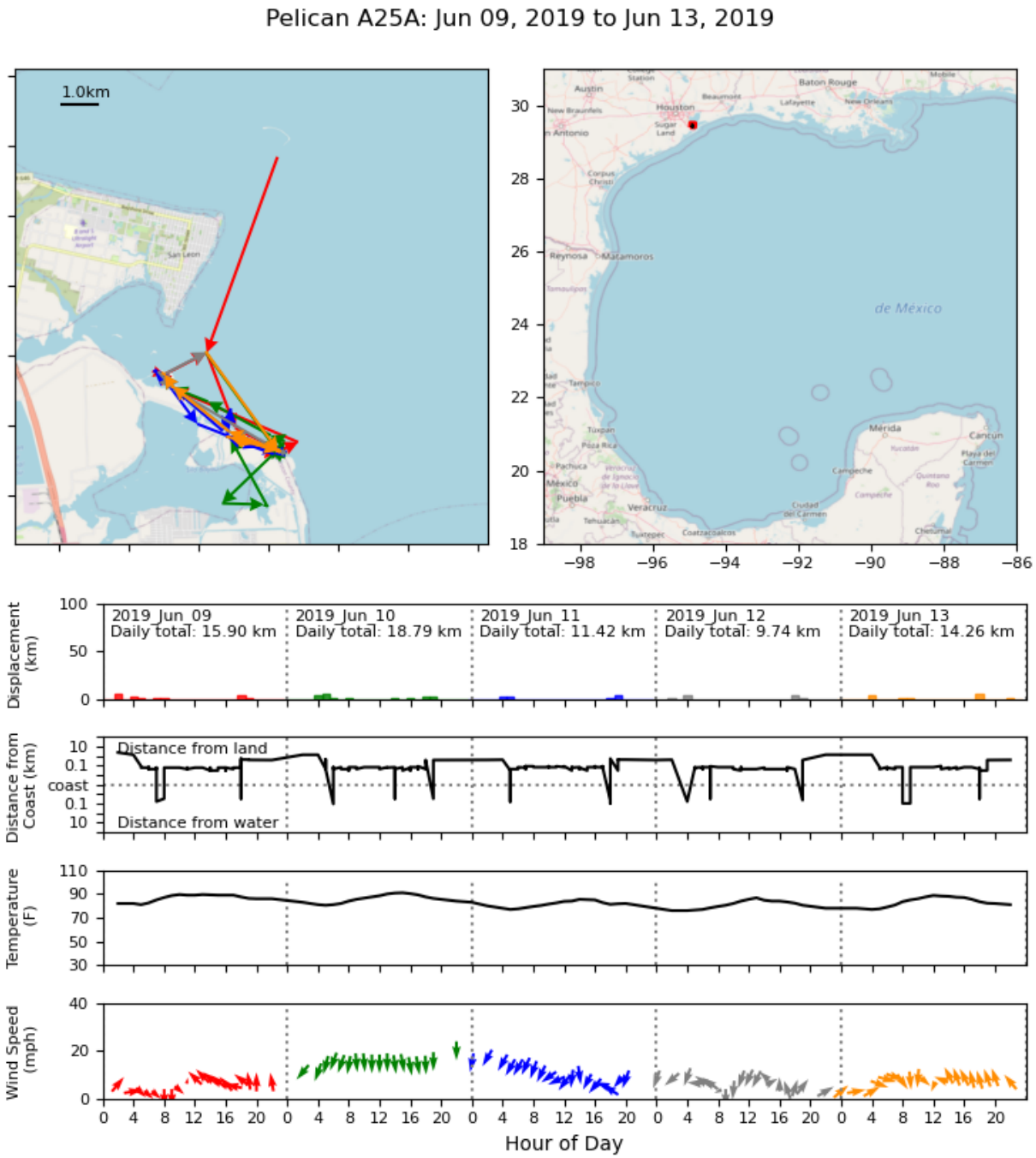

Figure 1232 - Maps and graphs showing movements of A25A between 2019-06-09 and 2019-06-12 inclusive.

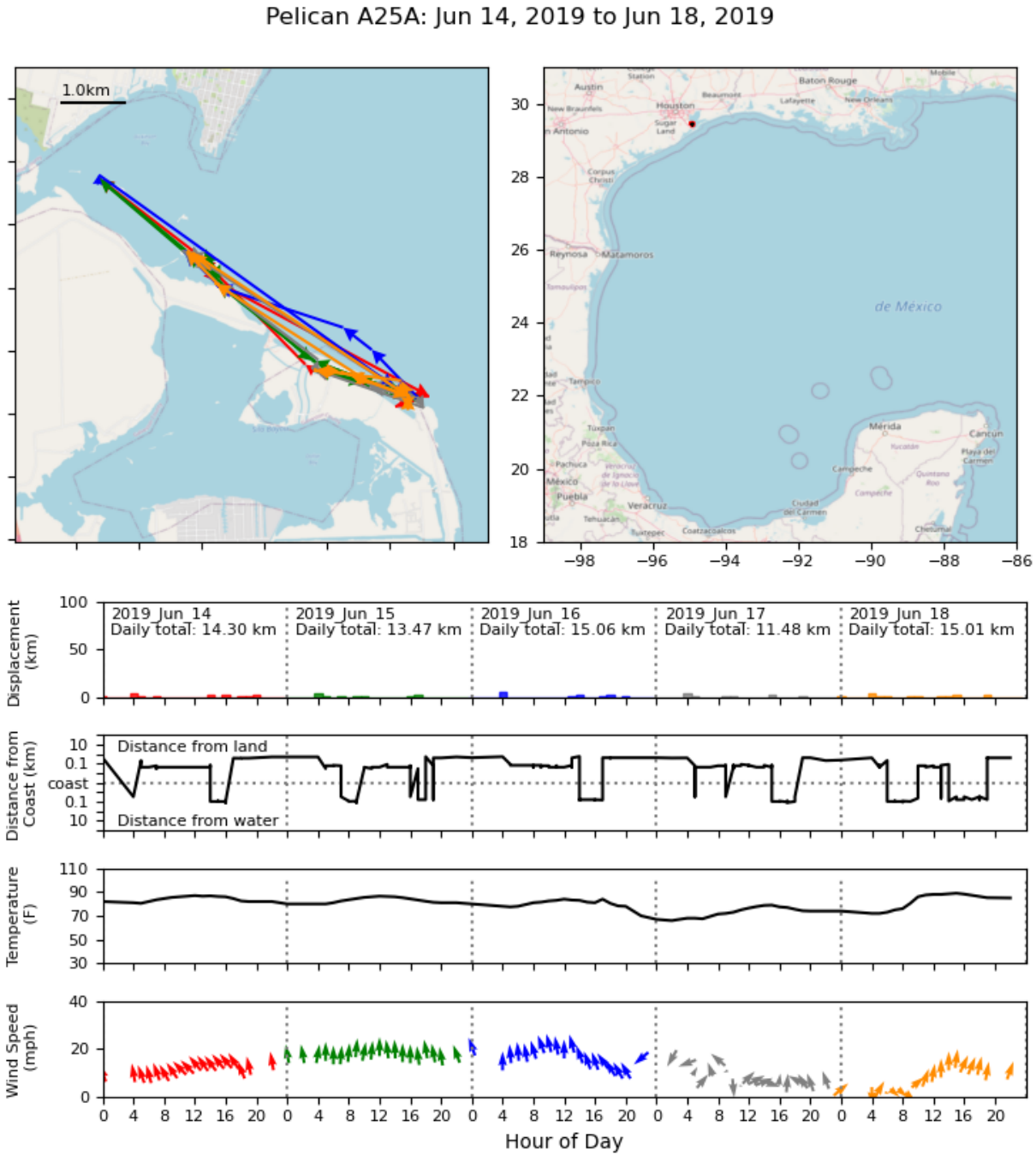

Figure 1233 - Maps and graphs showing movements of A25A between 2019-06-14 and 2019-06-17 inclusive.

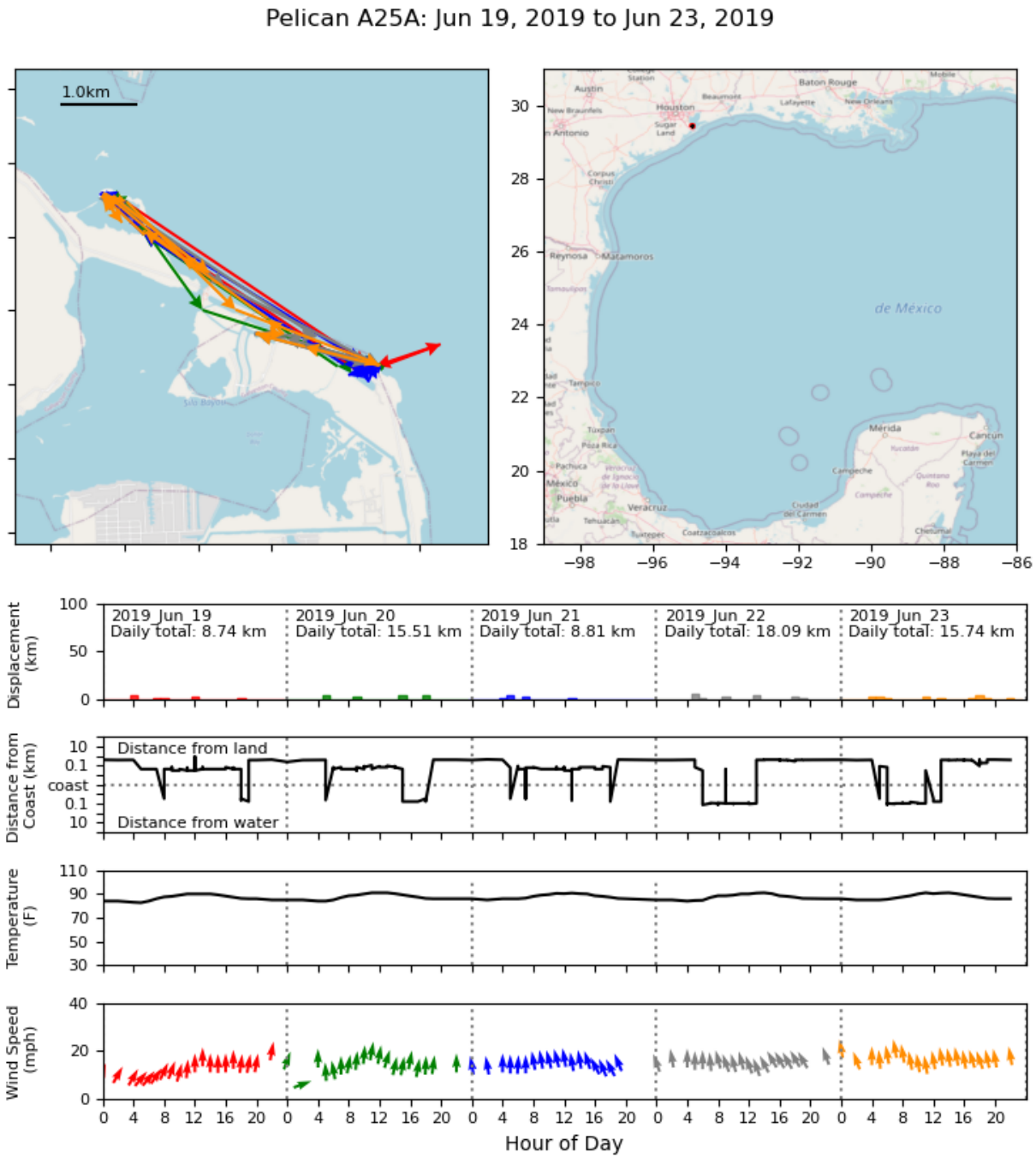

Figure 1234 - Maps and graphs showing movements of A25A between 2019-06-19 and 2019-06-22 inclusive.

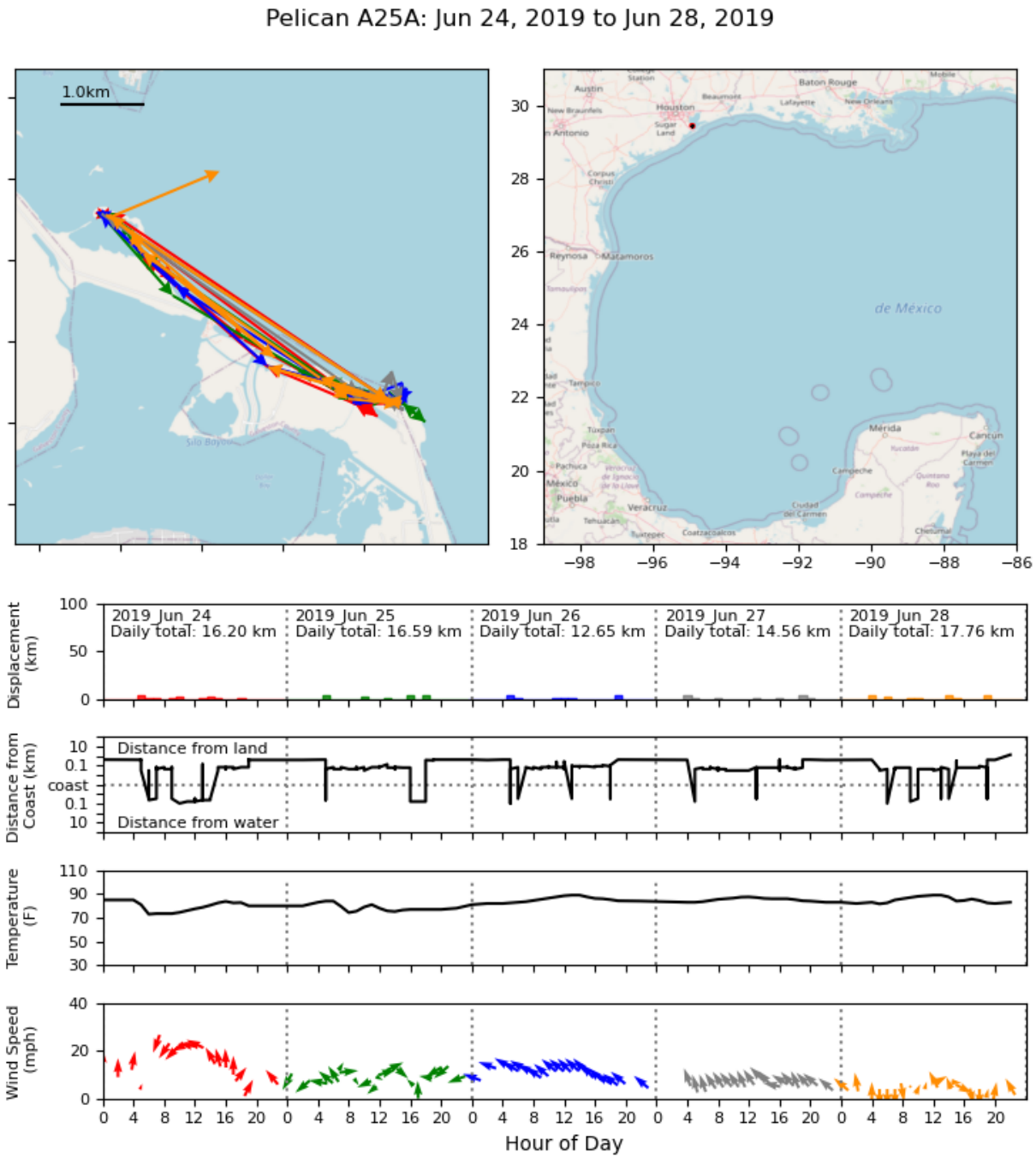

Figure 1235 - Maps and graphs showing movements of A25A between 2019-06-24 and 2019-06-27 inclusive.

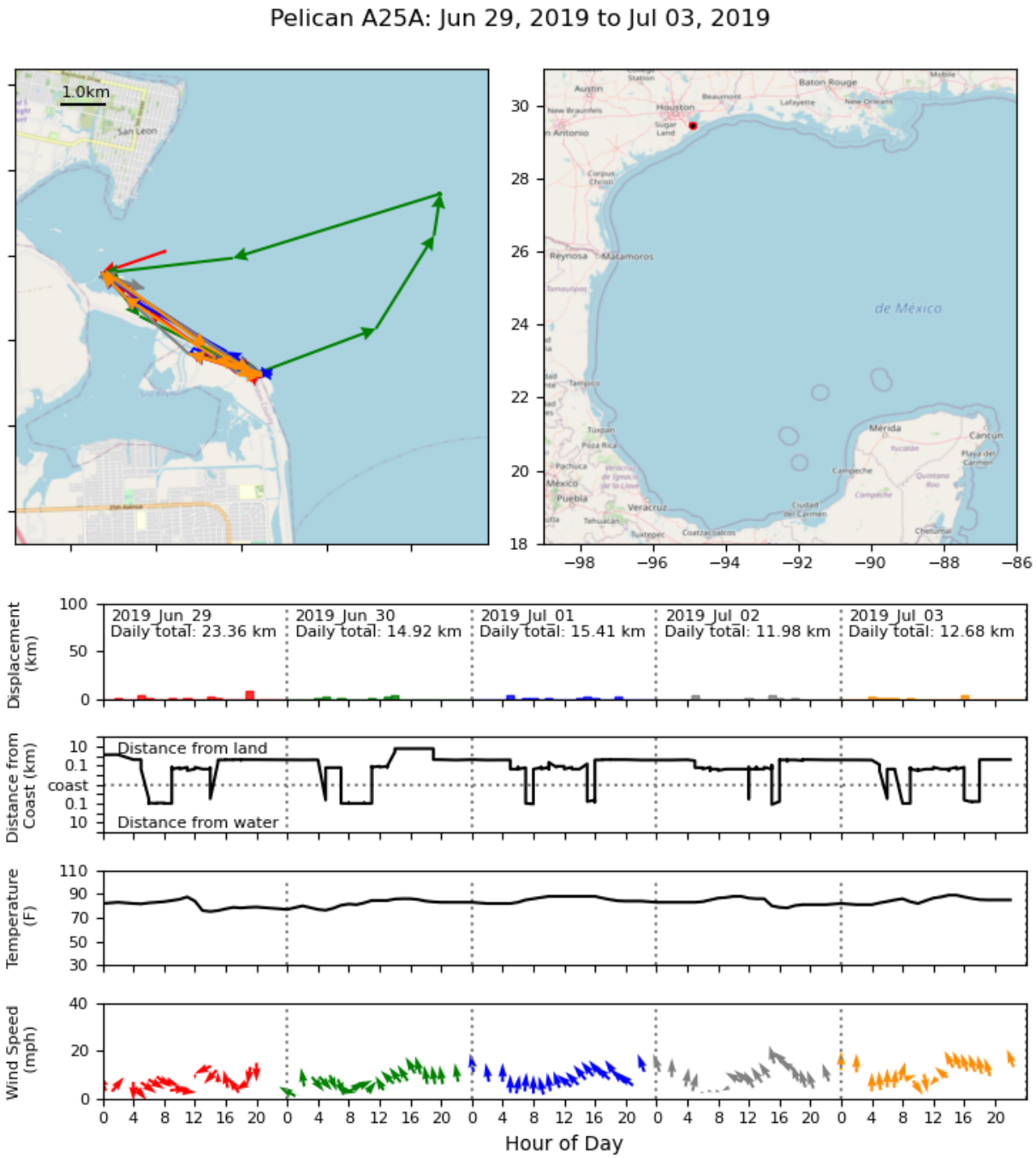

Figure 1236 - Maps and graphs showing movements of A25A between 2019-06-29 and 2019-07-02 inclusive.

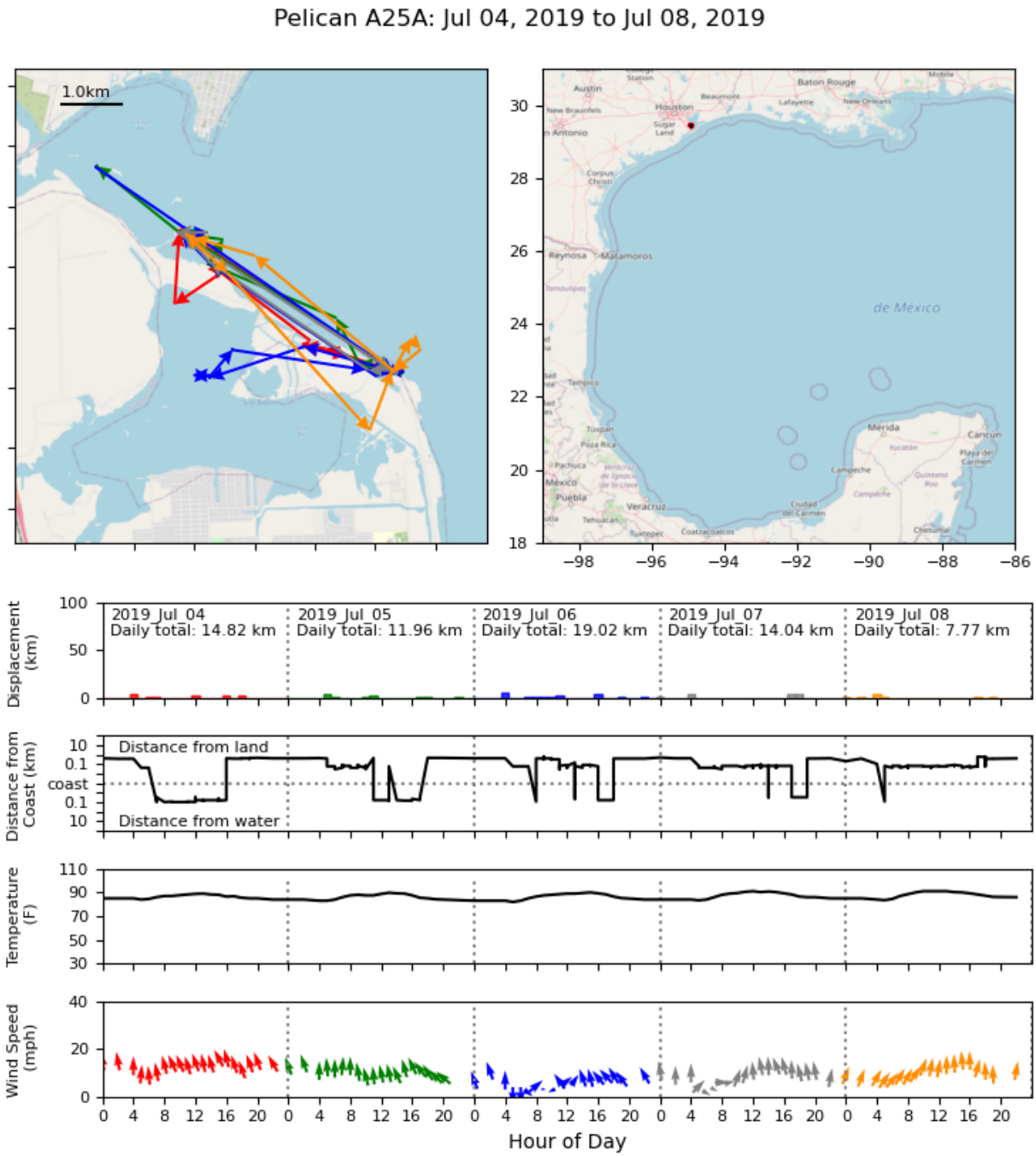

Figure 1237 - Maps and graphs showing movements of A25A between 2019-07-04 and 2019-07-07 inclusive.

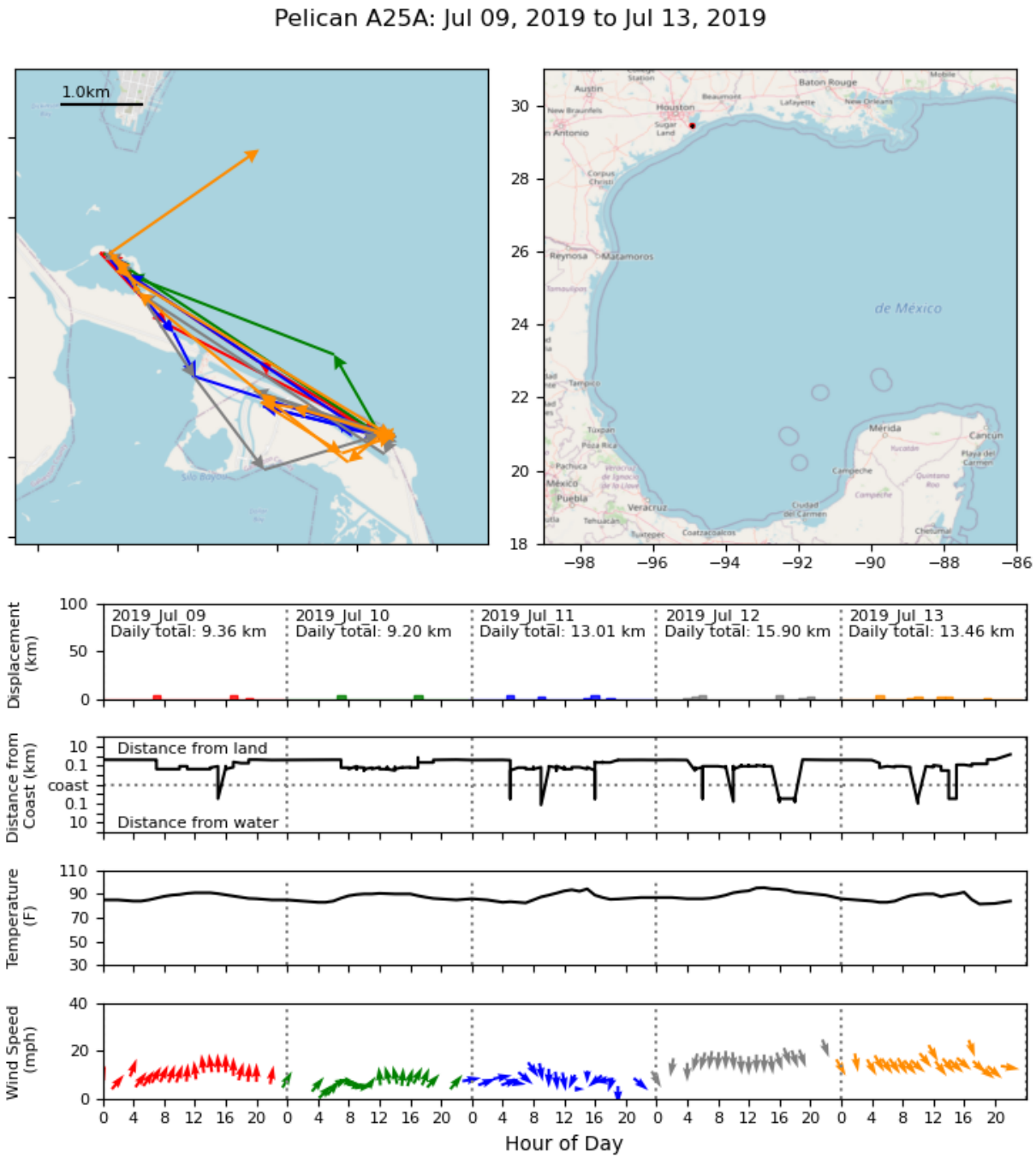

Figure 1238 - Maps and graphs showing movements of A25A between 2019-07-09 and 2019-07-12 inclusive.

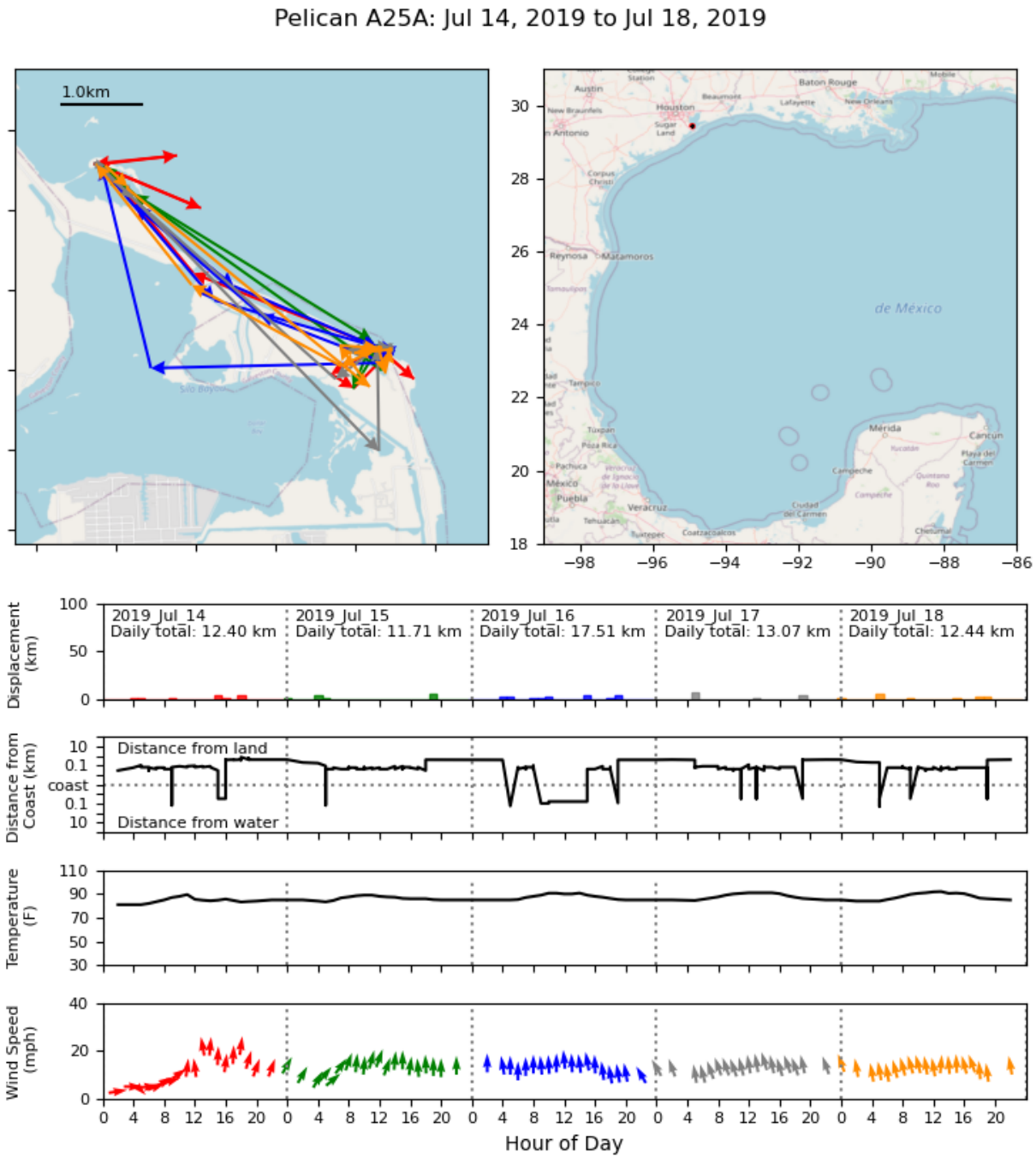

Figure 1239 - Maps and graphs showing movements of A25A between 2019-07-14 and 2019-07-17 inclusive.

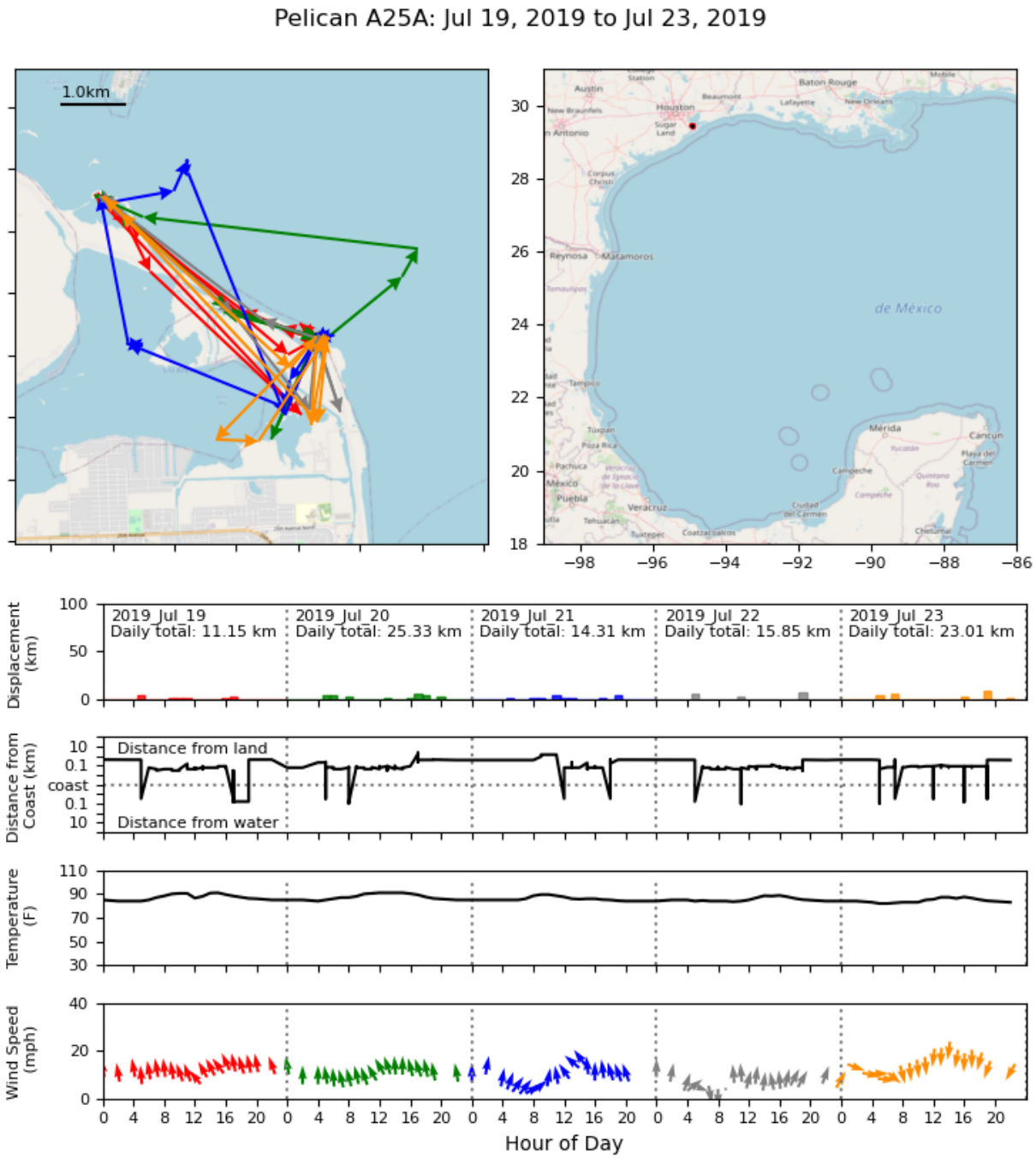

Figure 1240 - Maps and graphs showing movements of A25A between 2019-07-19 and 2019-07-22 inclusive.

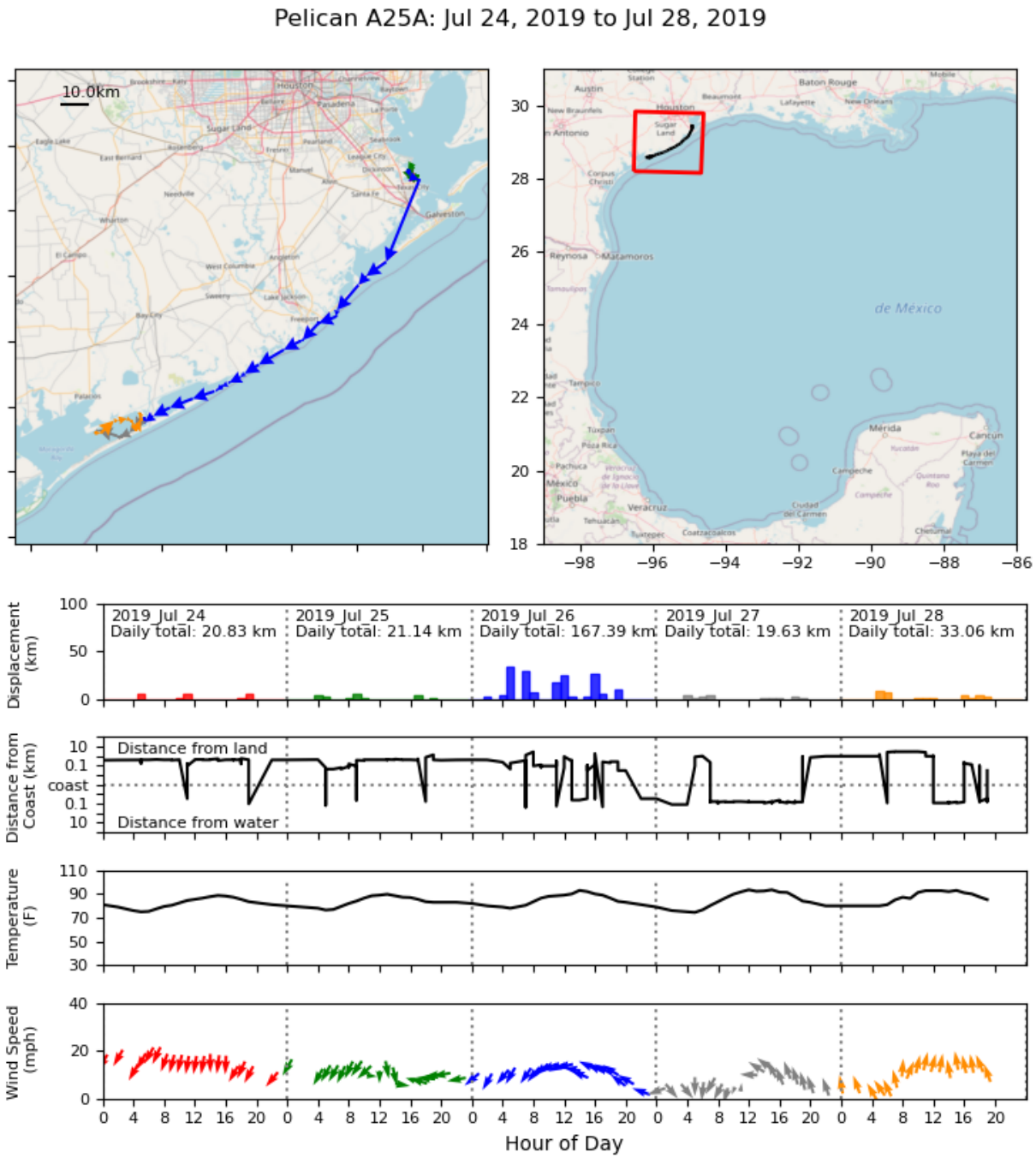

Figure 1241 - Maps and graphs showing movements of A25A between 2019-07-24 and 2019-07-27 inclusive.

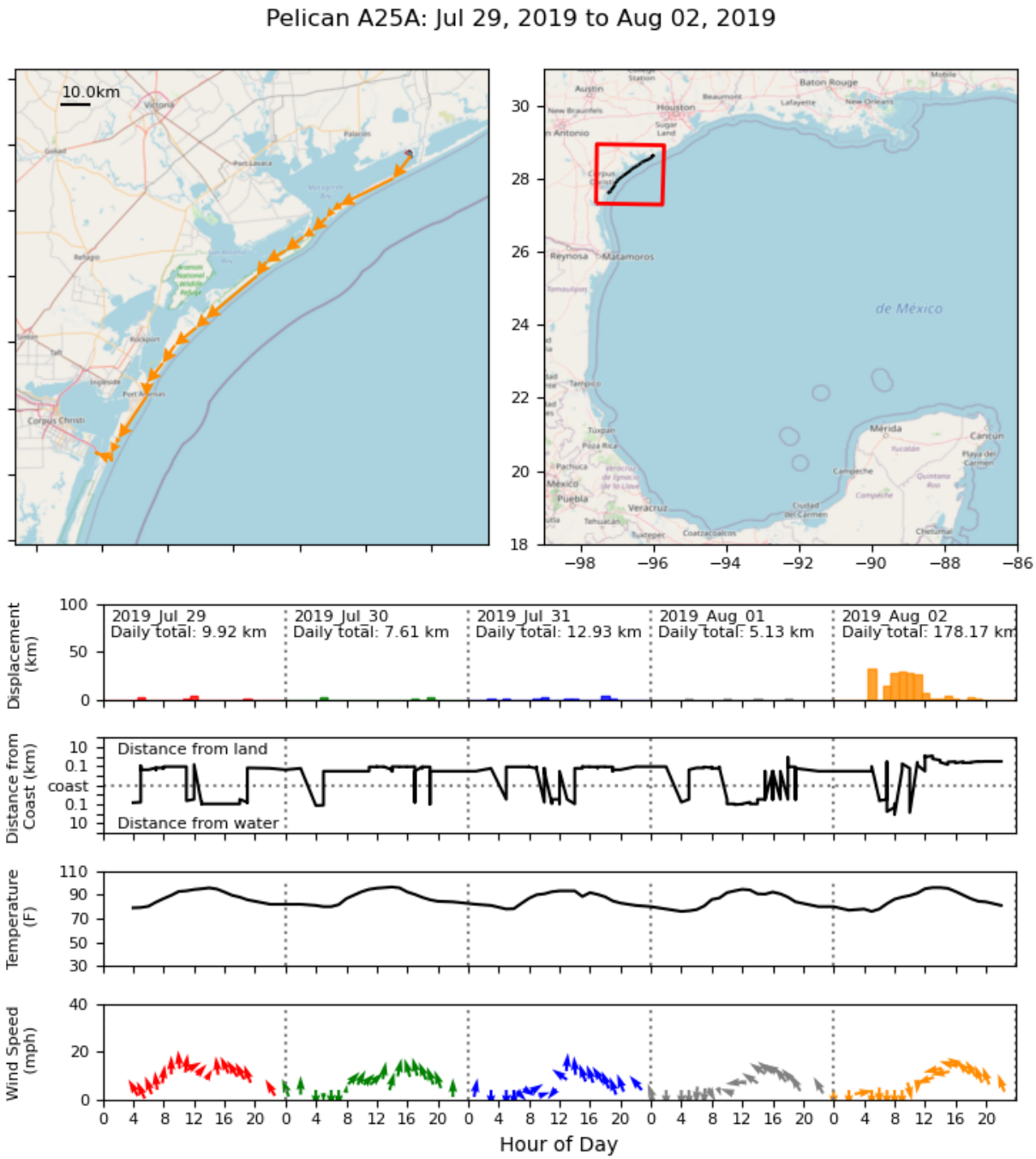

Figure 1242 - Maps and graphs showing movements of A25A between 2019-07-29 and 2019-08-01 inclusive.

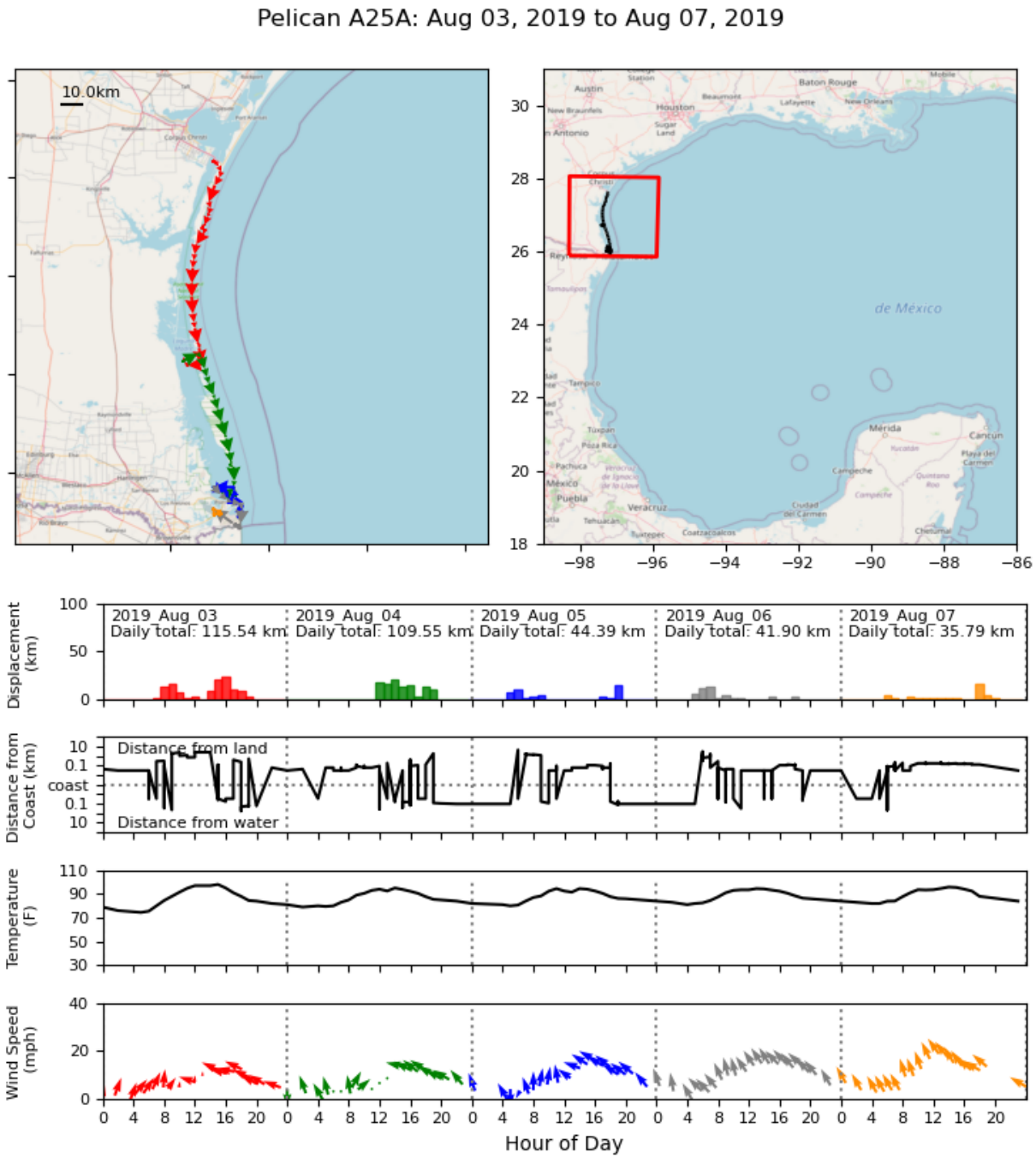

Figure 1243 - Maps and graphs showing movements of A25A between 2019-08-03 and 2019-08-06 inclusive.

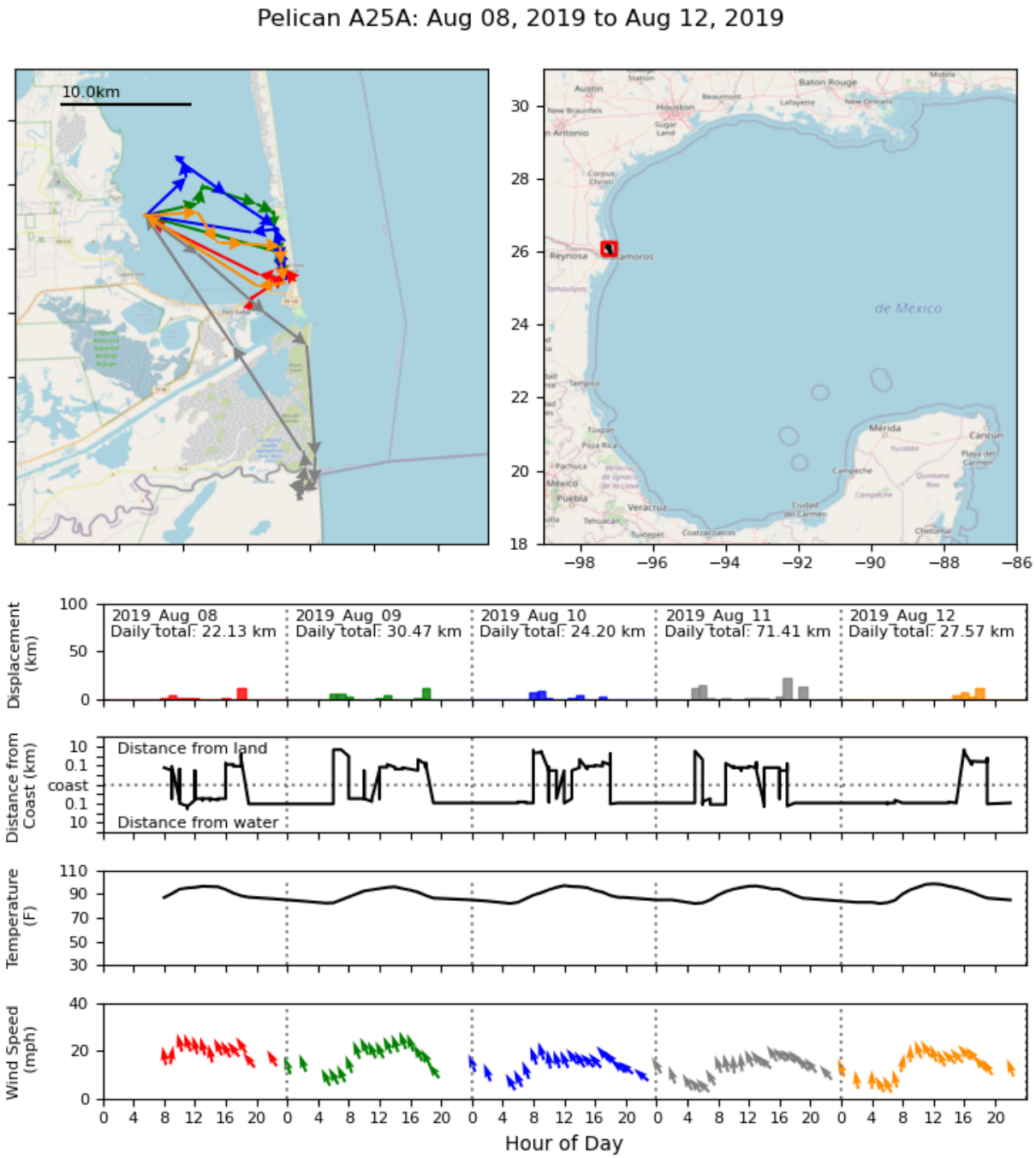

Figure 1244 - Maps and graphs showing movements of A25A between 2019-08-08 and 2019-08-11 inclusive.

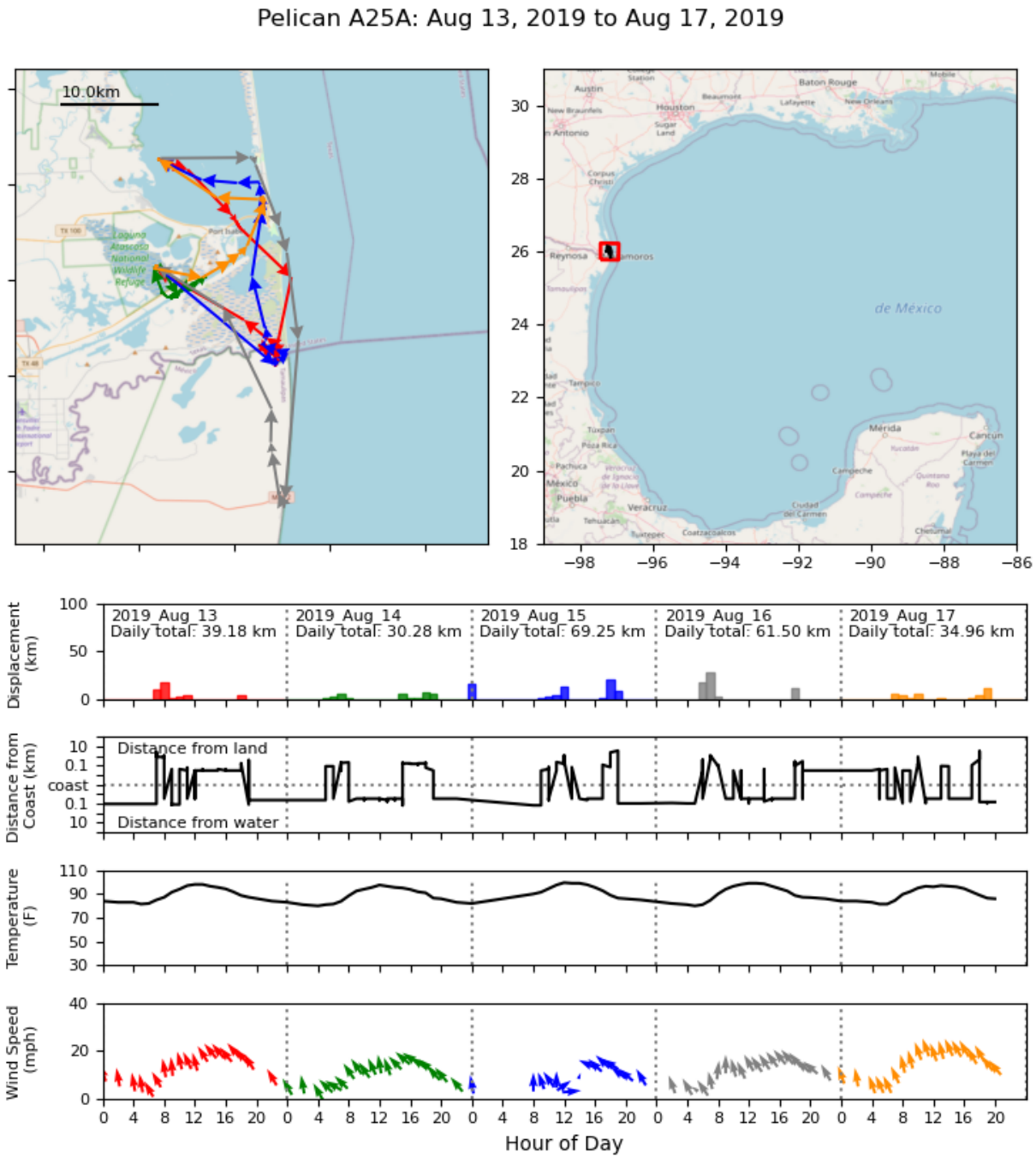

Figure 1245 - Maps and graphs showing movements of A25A between 2019-08-13 and 2019-08-16 inclusive.

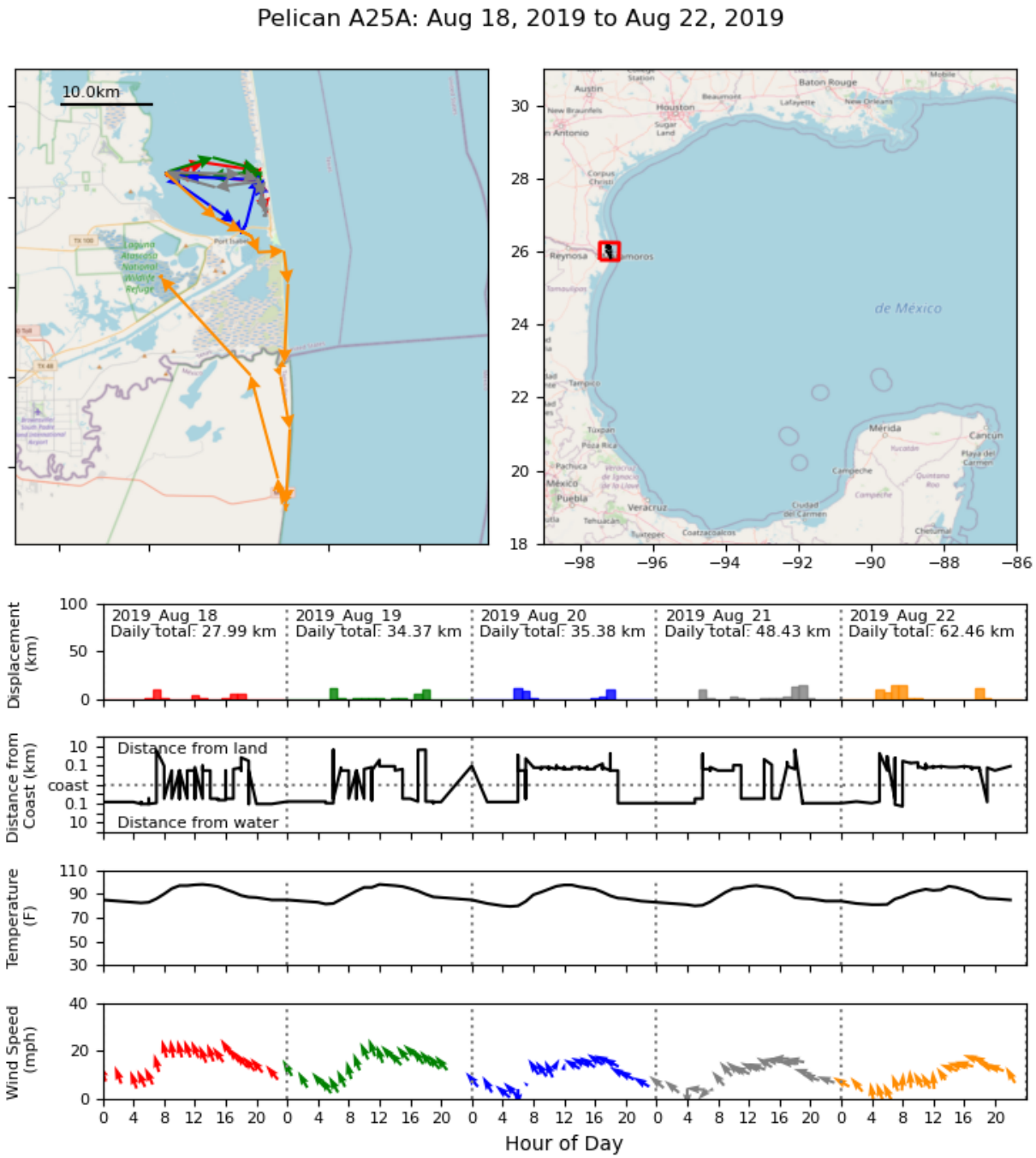

Figure 1246 - Maps and graphs showing movements of A25A between 2019-08-18 and 2019-08-21 inclusive.

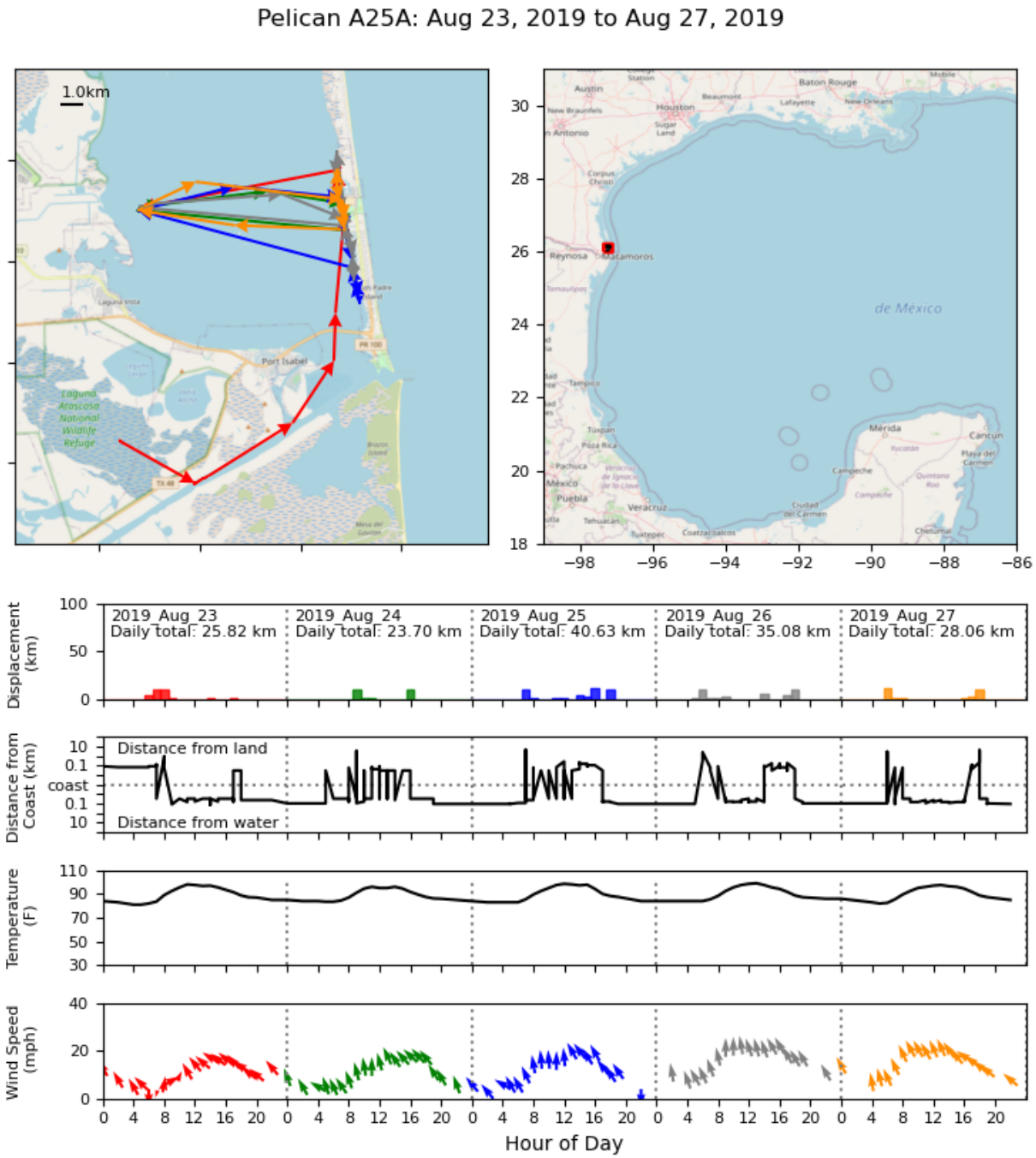

Figure 1247 - Maps and graphs showing movements of A25A between 2019-08-23 and 2019-08-26 inclusive.

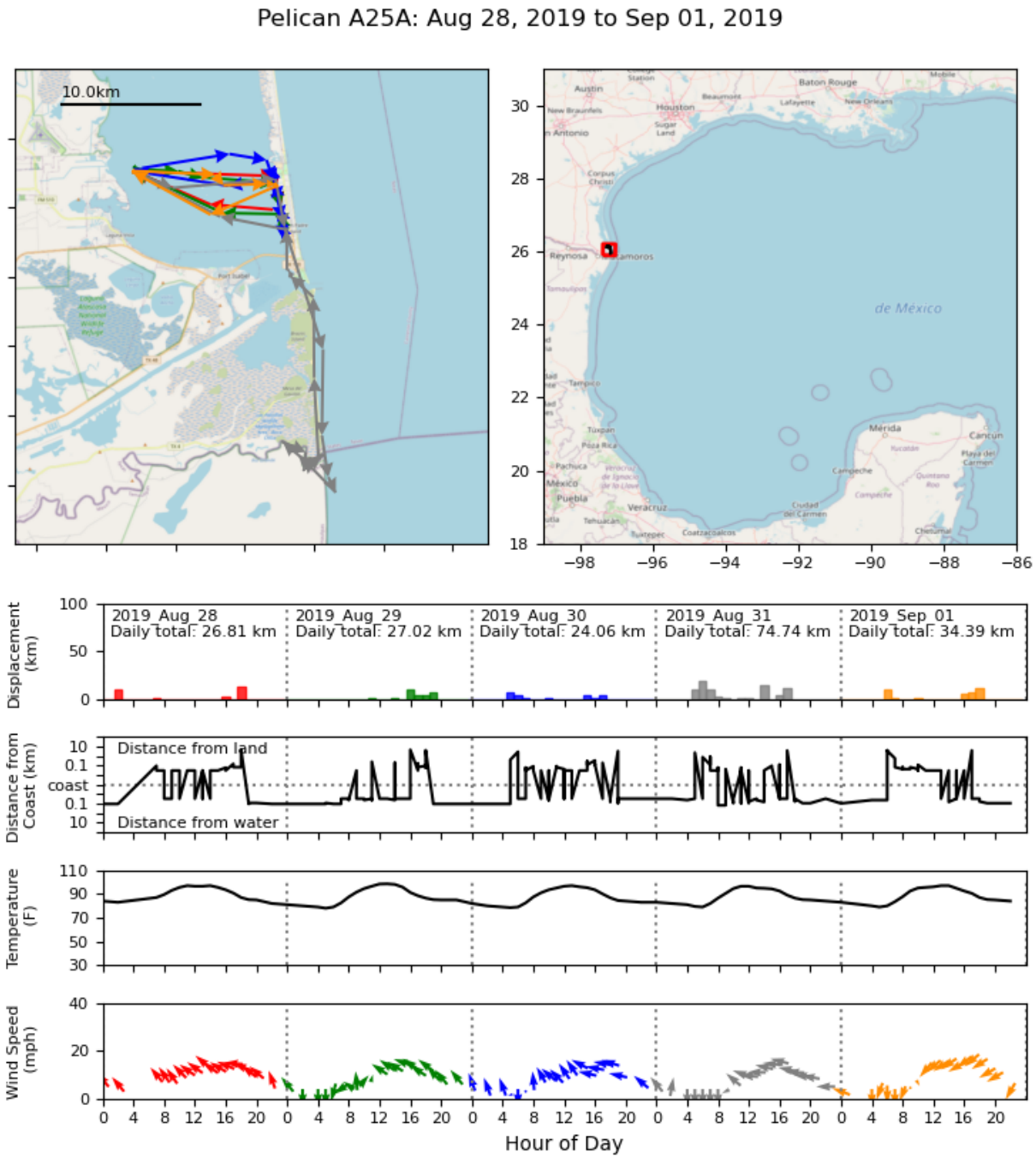

Figure 1248 - Maps and graphs showing movements of A25A between 2019-08-28 and 2019-08-31 inclusive.

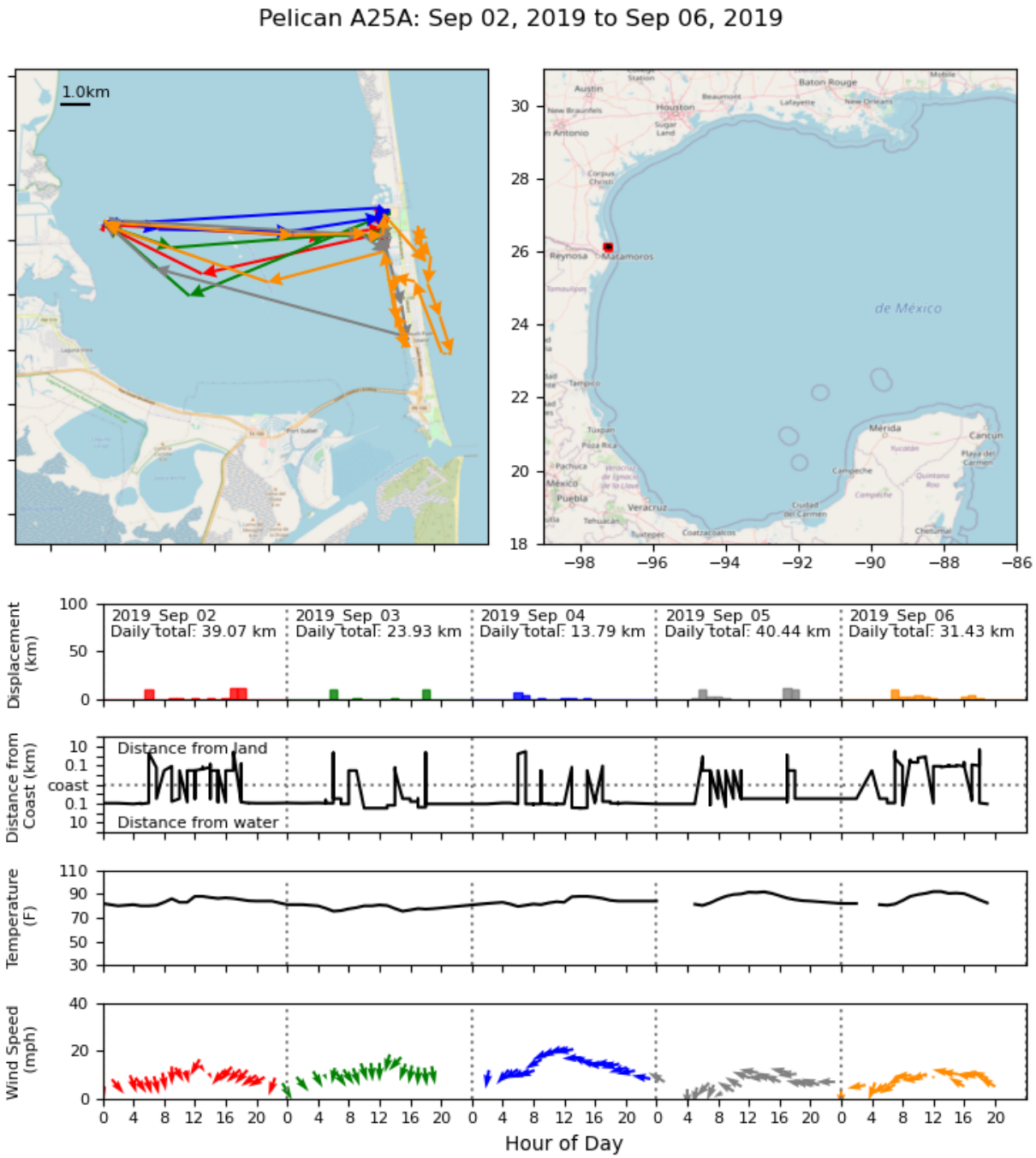

Figure 1249 - Maps and graphs showing movements of A25A between 2019-09-02 and 2019-09-05 inclusive.

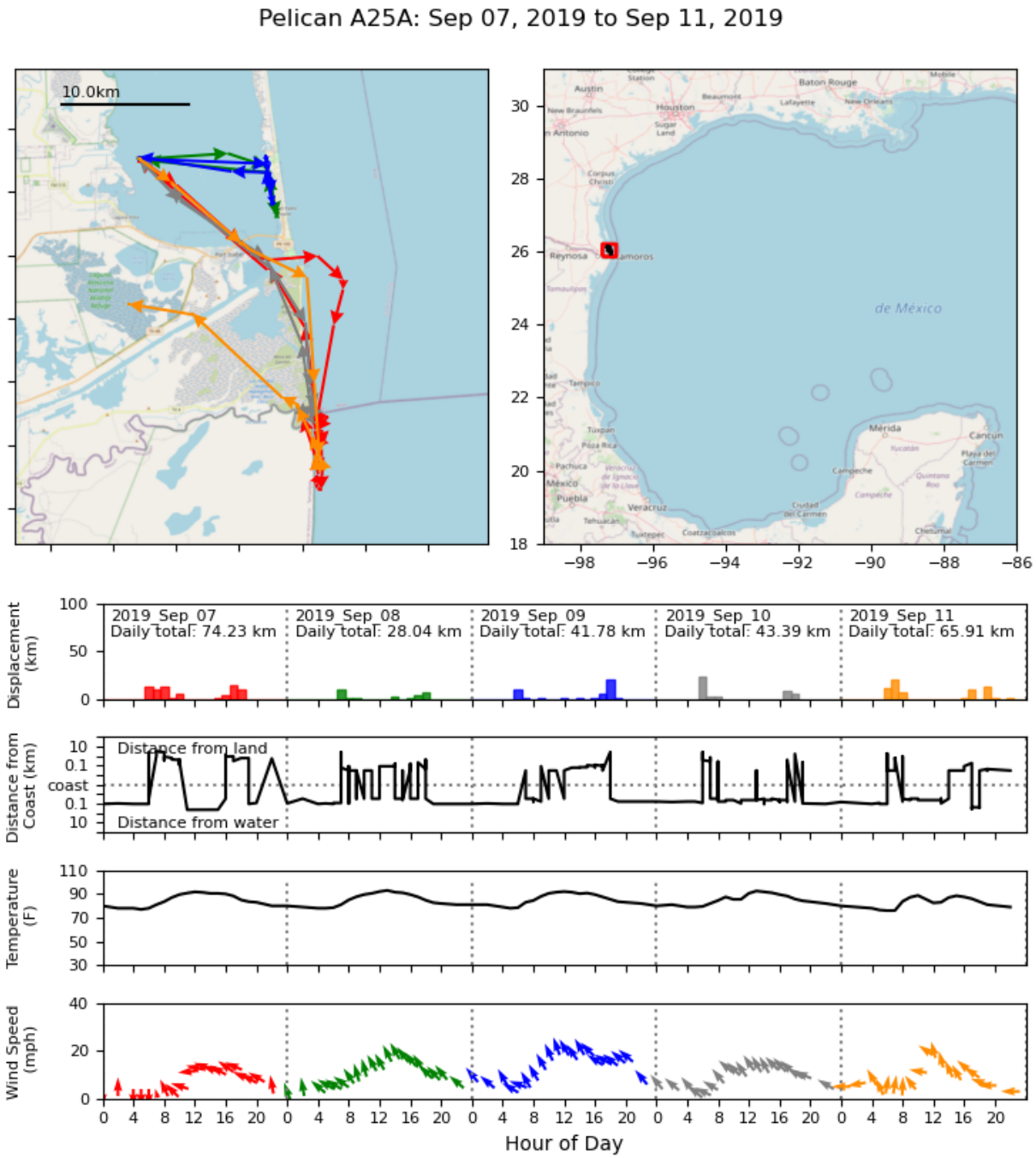

Figure 1250 - Maps and graphs showing movements of A25A between 2019-09-07 and 2019-09-10 inclusive.

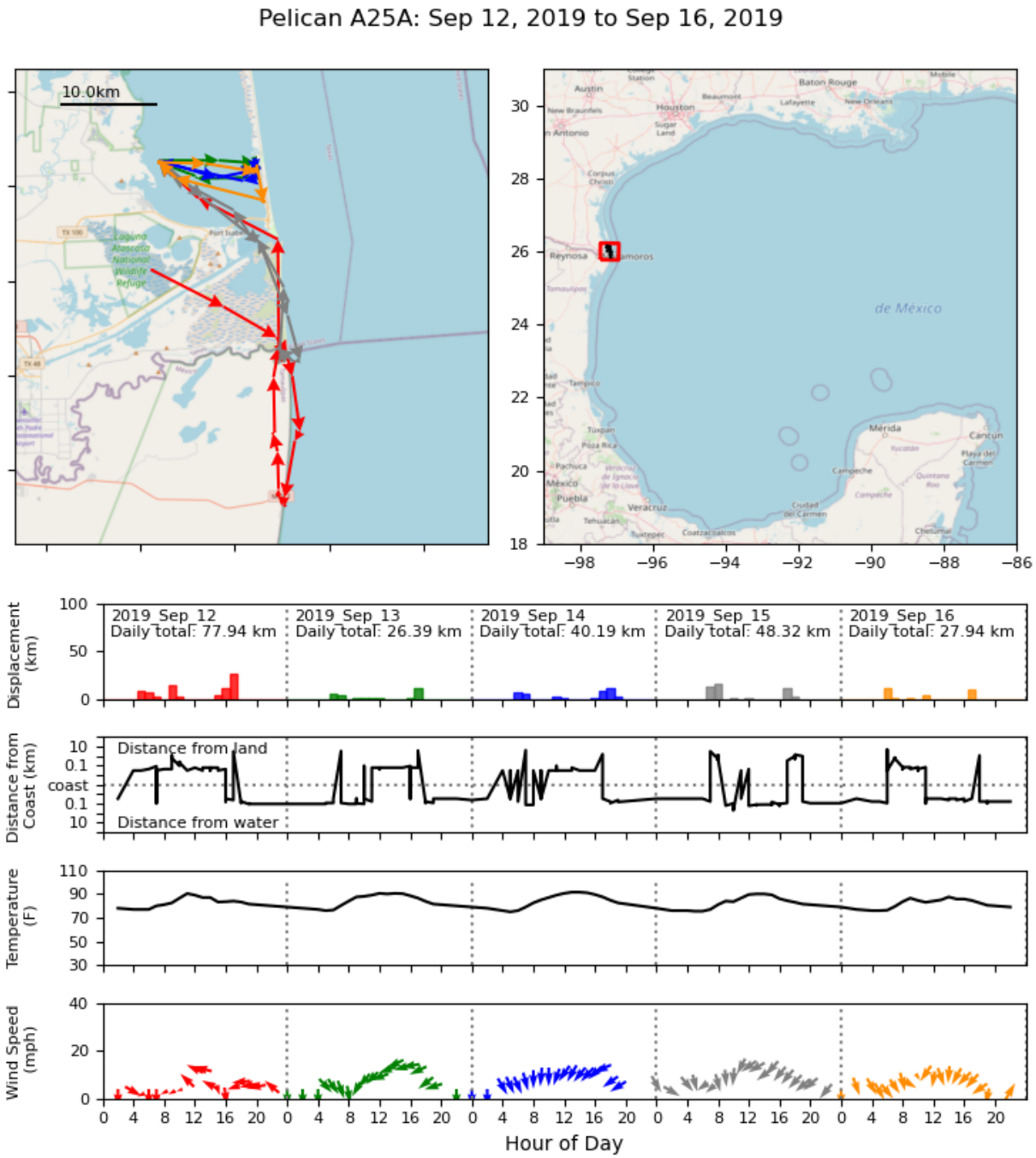

Figure 1251 - Maps and graphs showing movements of A25A between 2019-09-12 and 2019-09-15 inclusive.

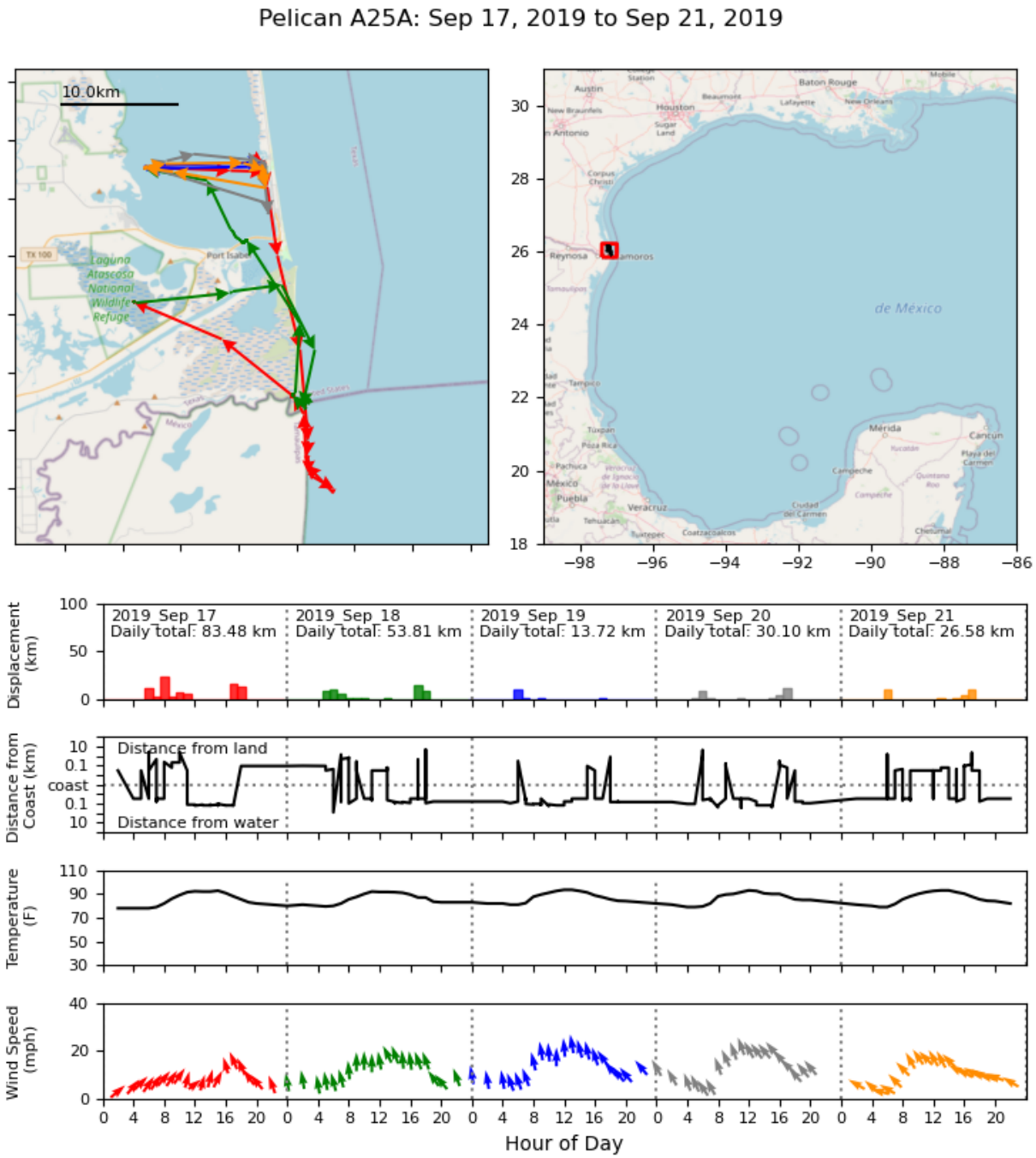

Figure 1252 - Maps and graphs showing movements of A25A between 2019-09-17 and 2019-09-20 inclusive.

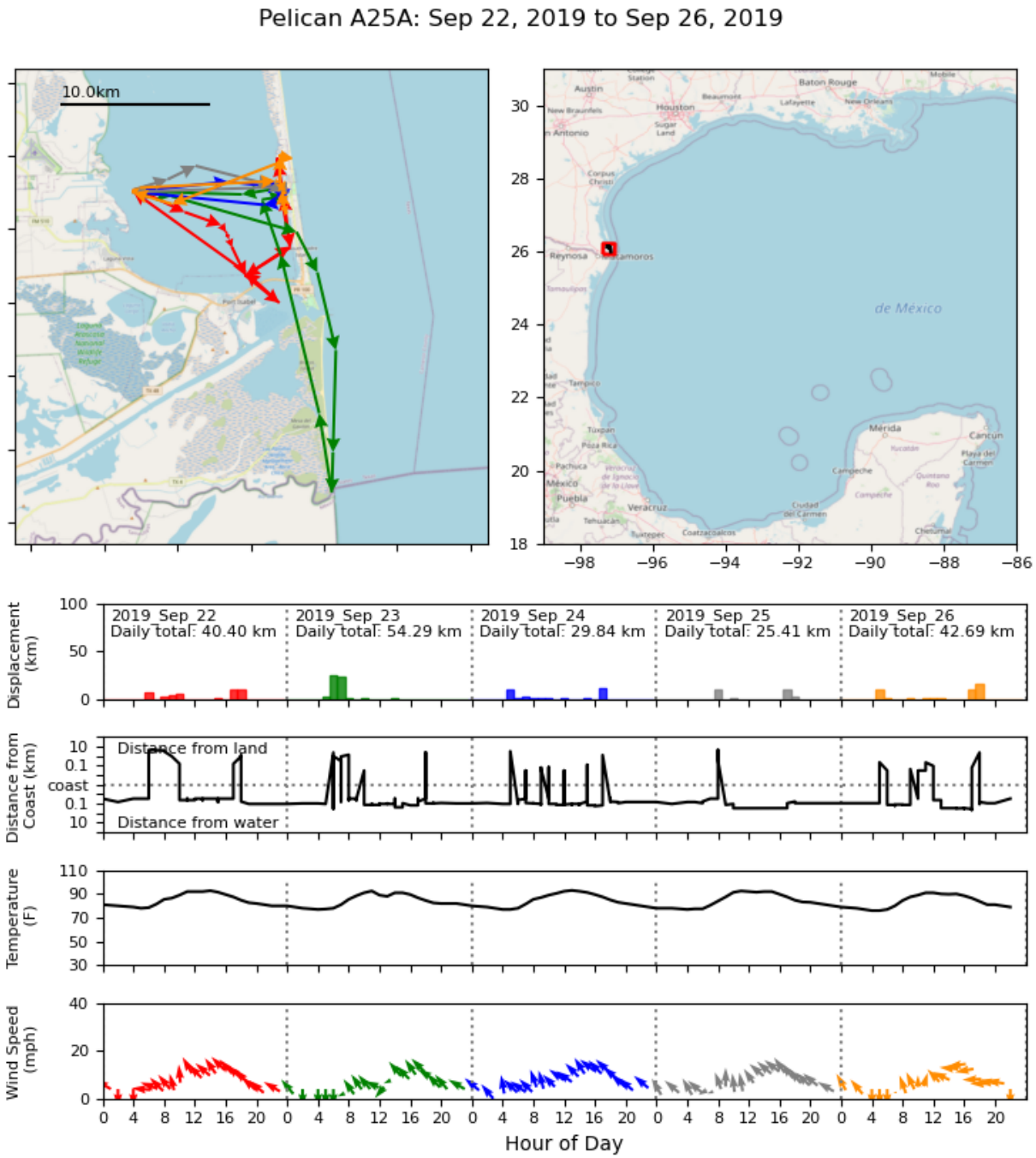

Figure 1253 - Maps and graphs showing movements of A25A between 2019-09-22 and 2019-09-25 inclusive.

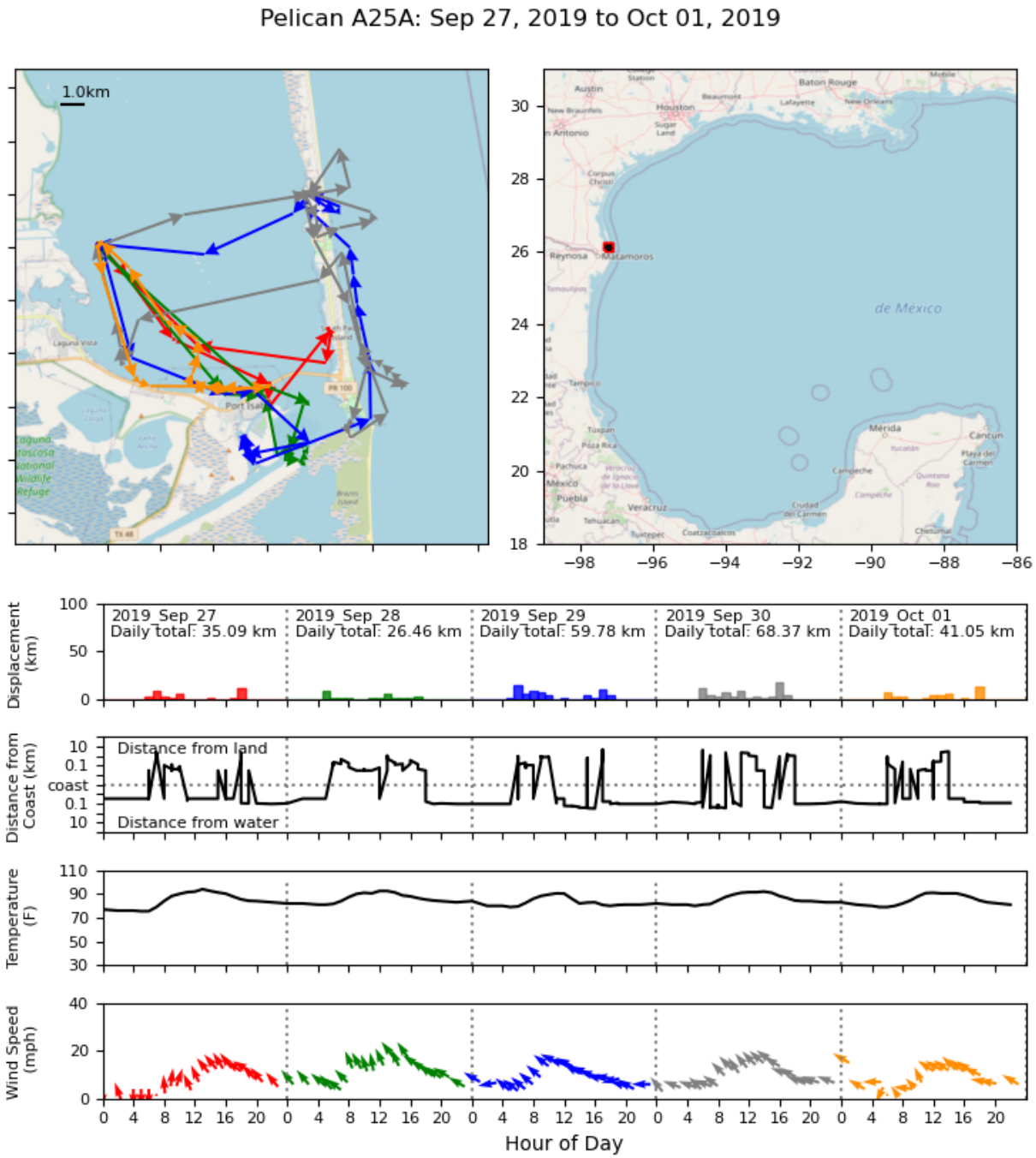

Figure 1254 - Maps and graphs showing movements of A25A between 2019-09-27 and 2019-09-30 inclusive.

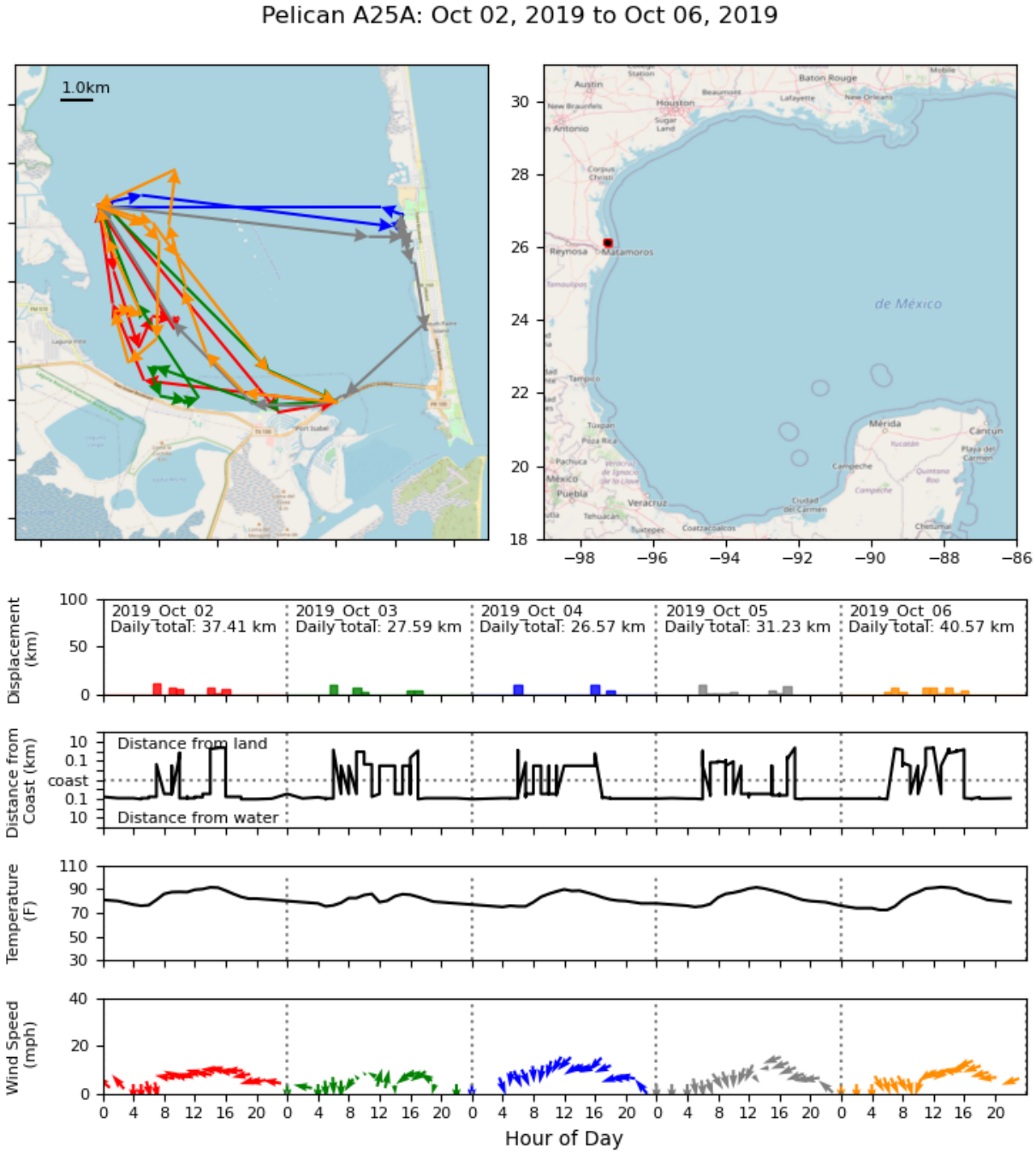

Figure 1255 - Maps and graphs showing movements of A25A between 2019-10-02 and 2019-10-05 inclusive.

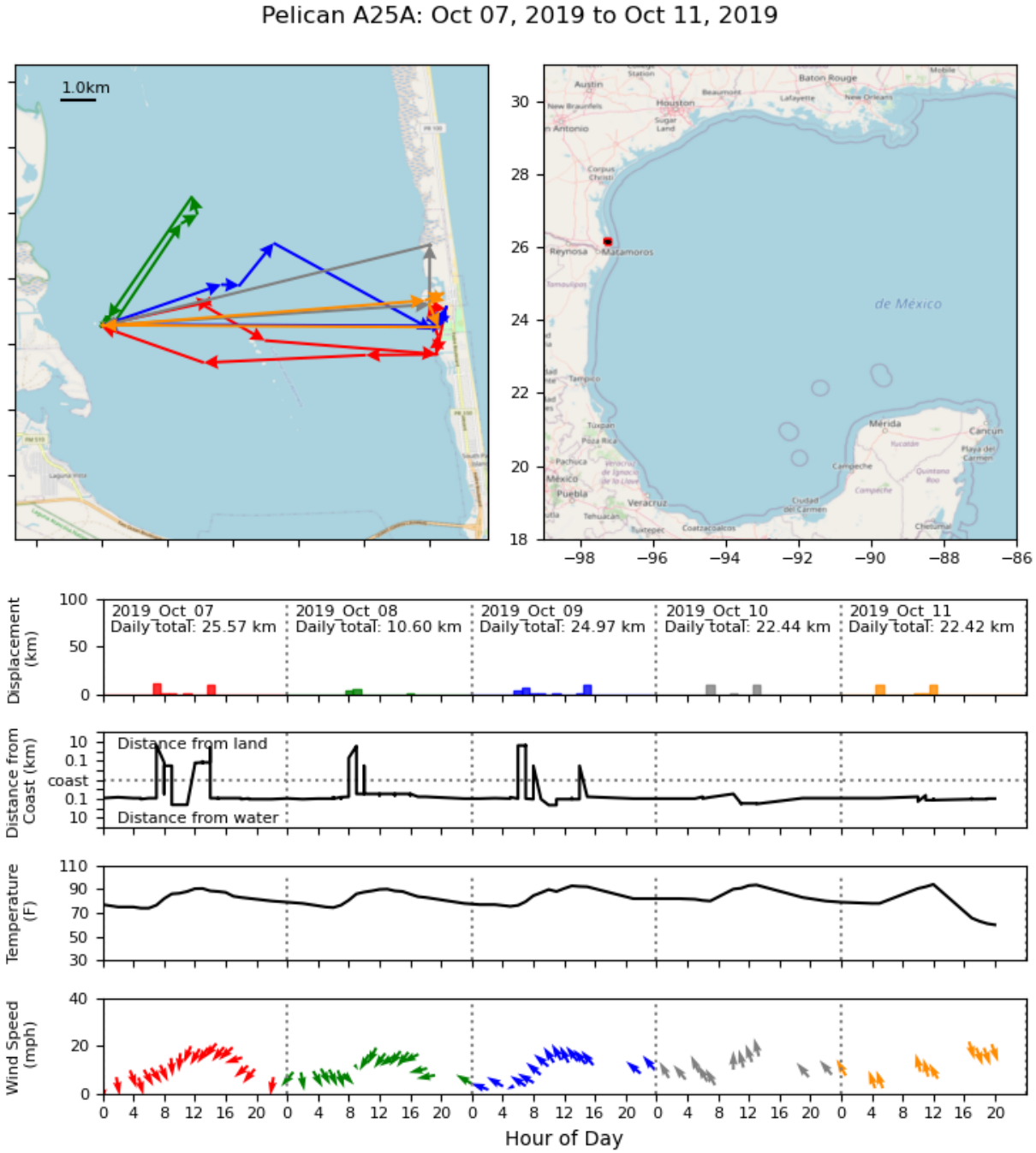

Figure 1256 - Maps and graphs showing movements of A25A between 2019-10-07 and 2019-10-10 inclusive.

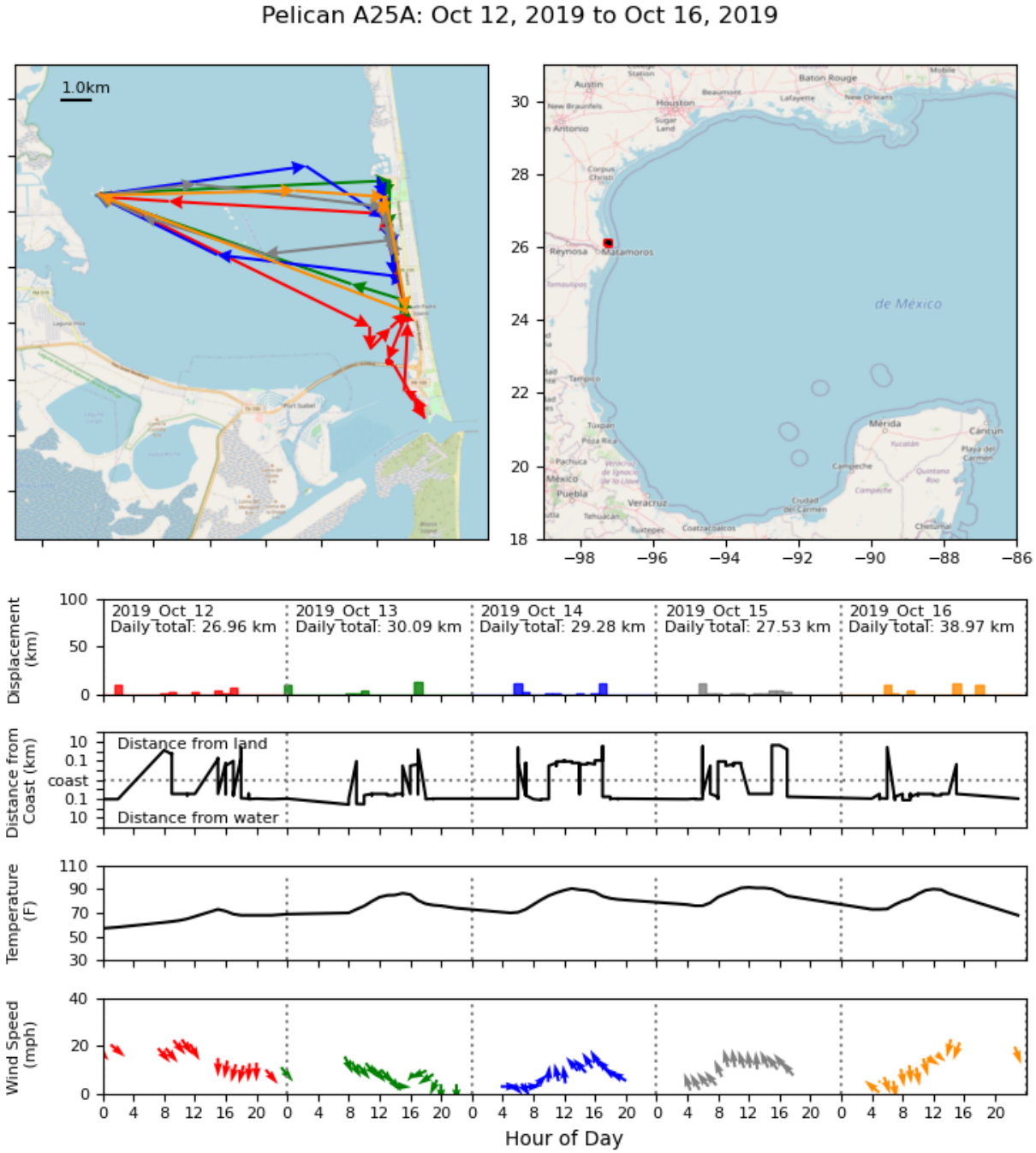

Figure 1257 - Maps and graphs showing movements of A25A between 2019-10-12 and 2019-10-15 inclusive.

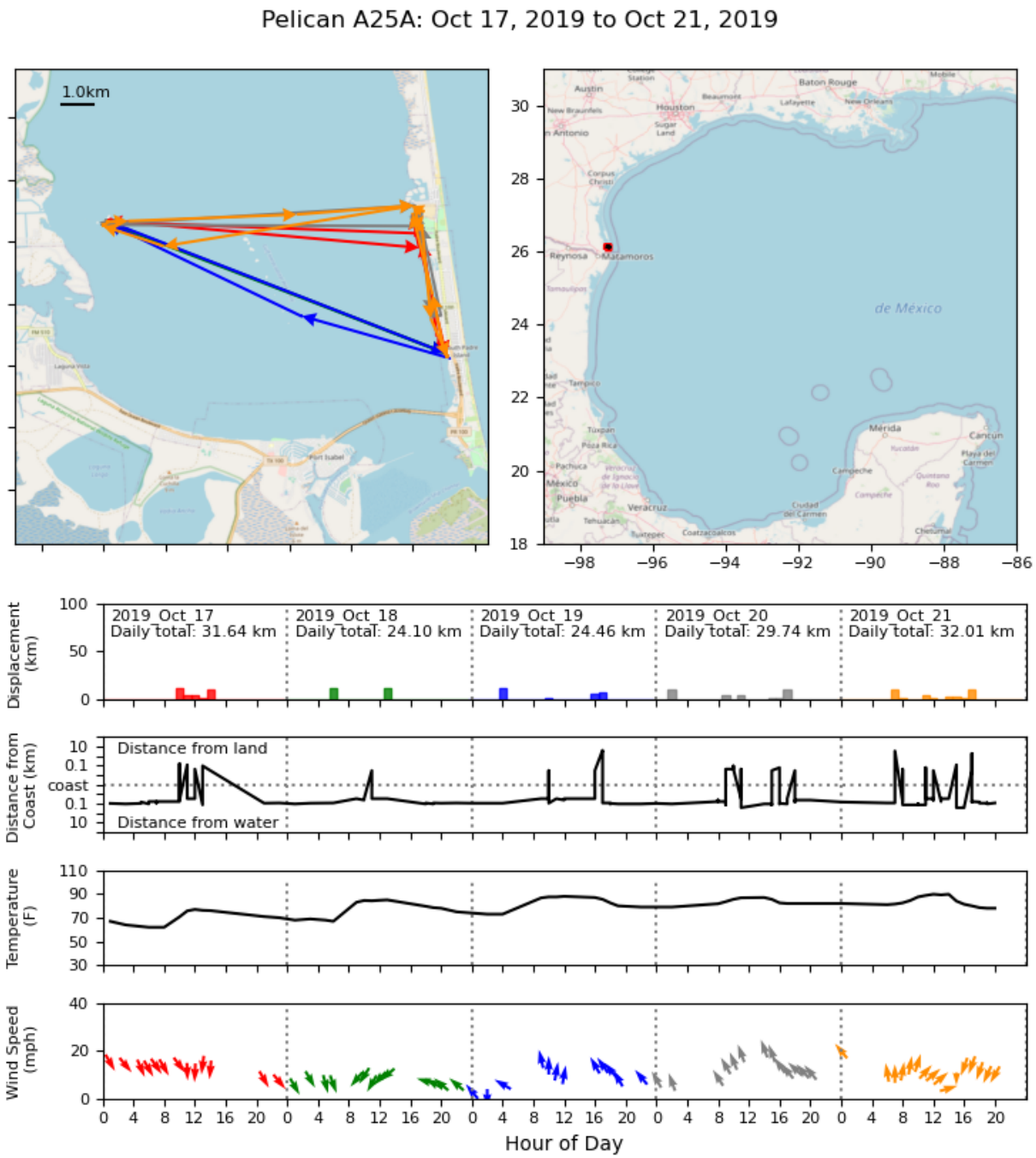

Figure 1258 - Maps and graphs showing movements of A25A between 2019-10-17 and 2019-10-20 inclusive.

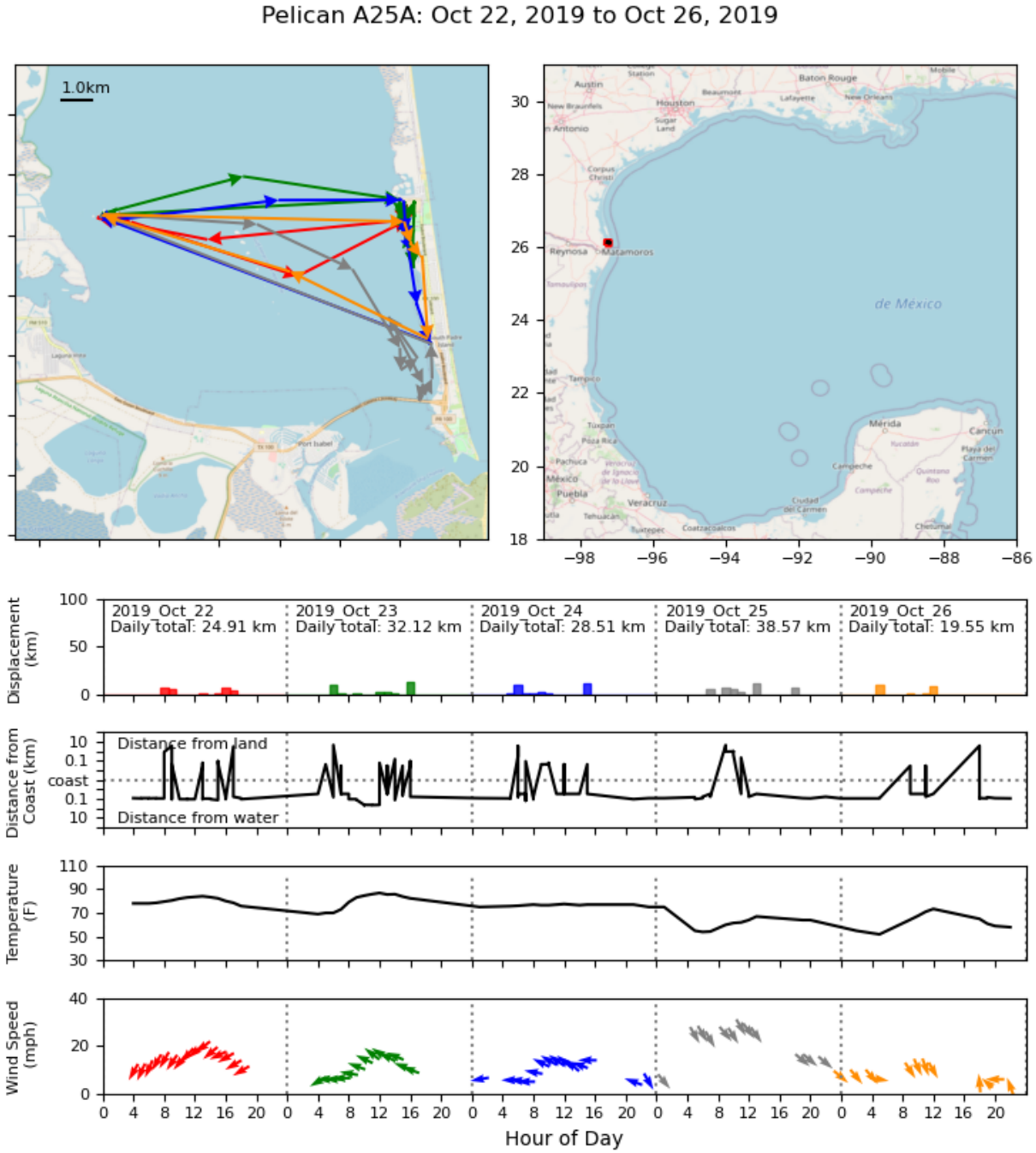

Figure 1259 - Maps and graphs showing movements of A25A between 2019-10-22 and 2019-10-25 inclusive.

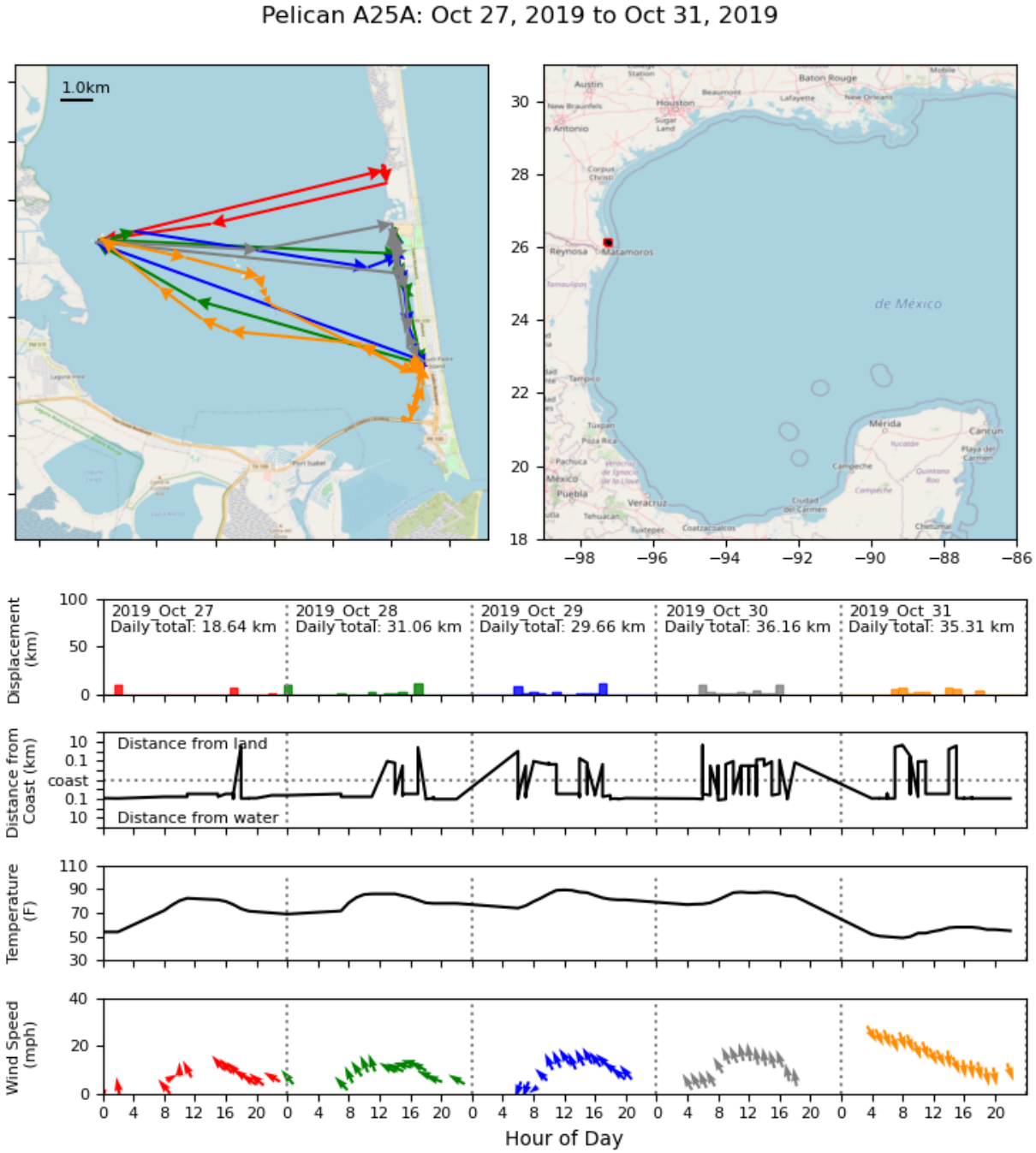

Figure 1260 - Maps and graphs showing movements of A25A between 2019-10-27 and 2019-10-30 inclusive.

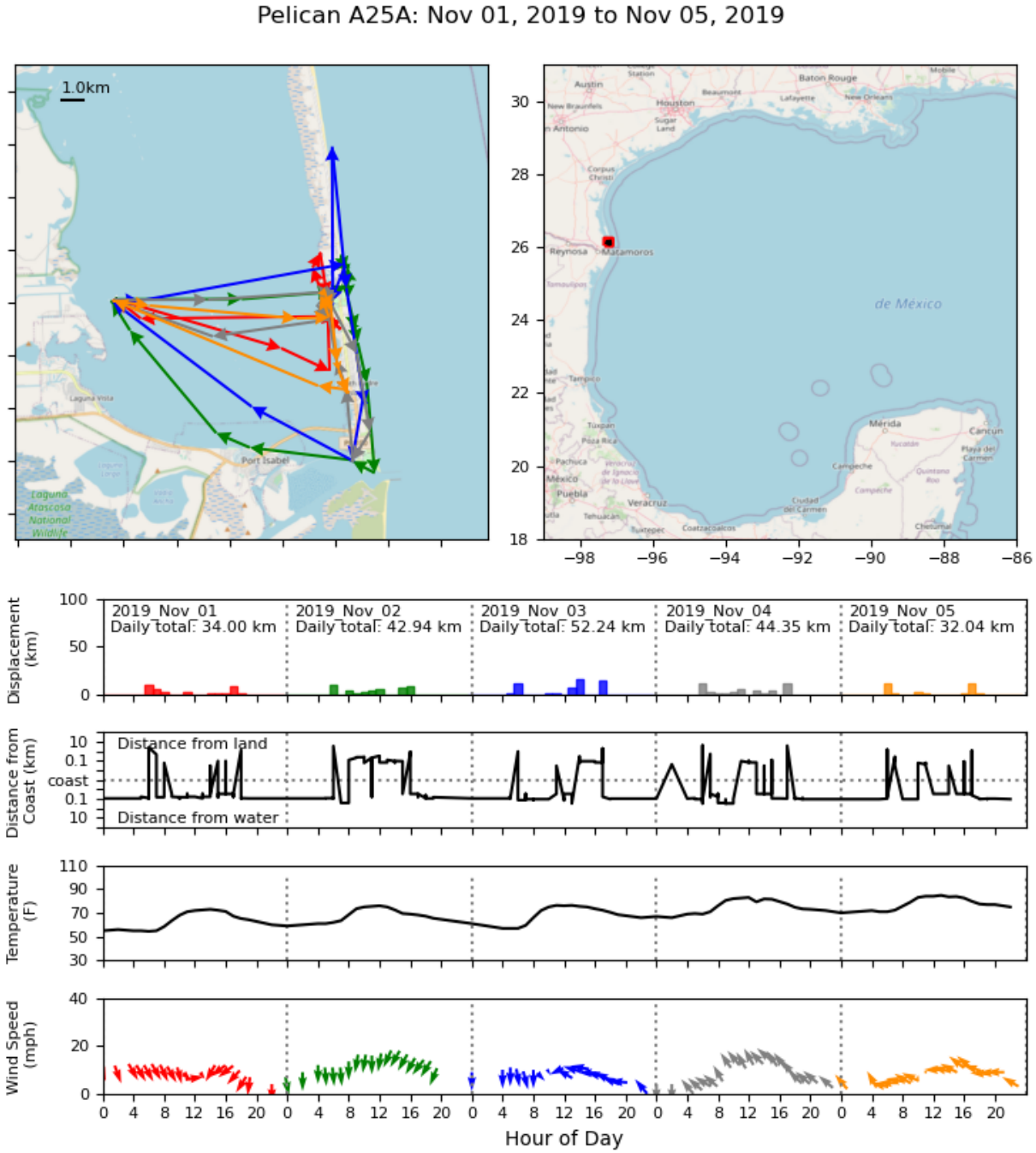

Figure 1261 - Maps and graphs showing movements of A25A between 2019-11-01 and 2019-11-04 inclusive.

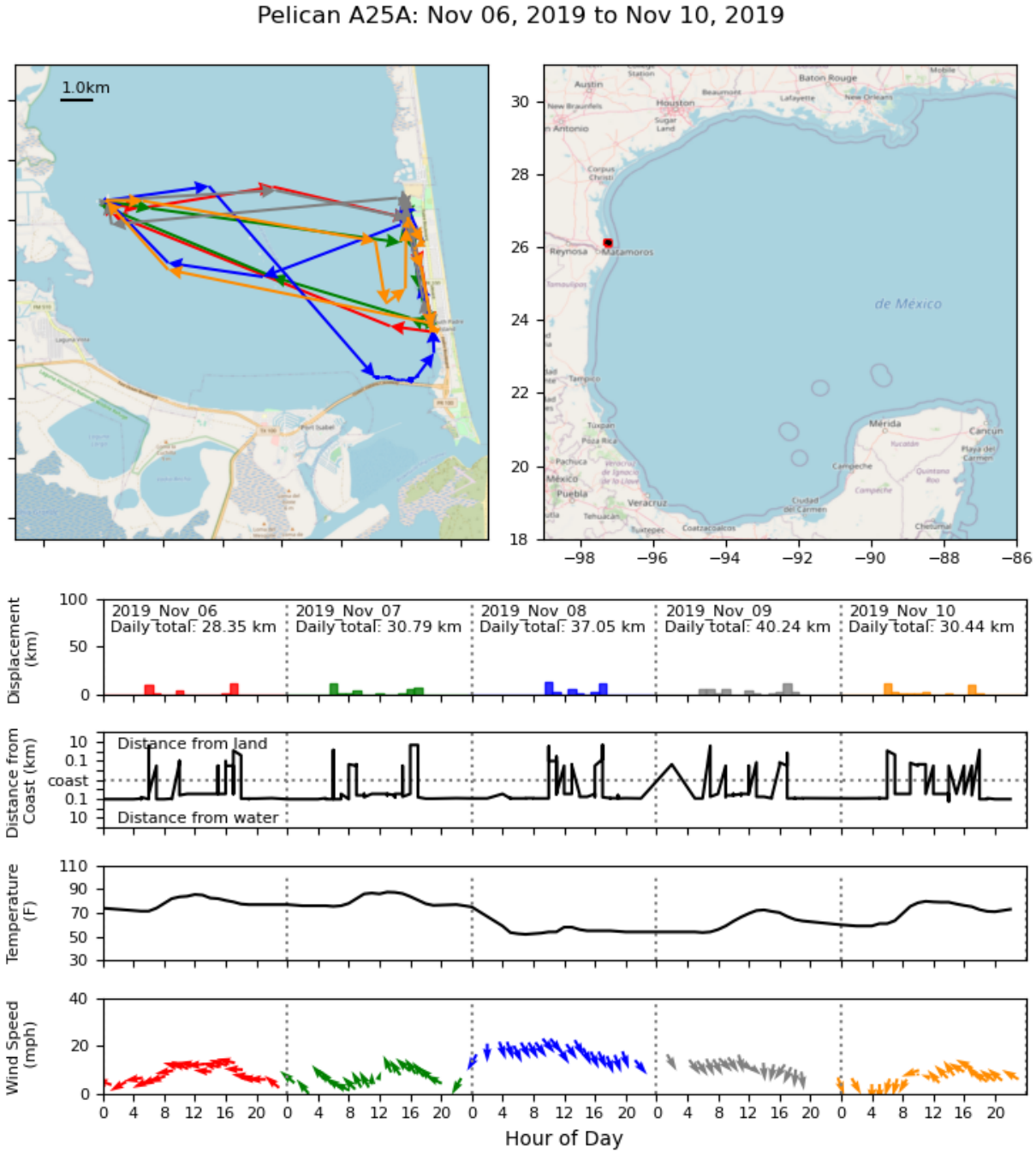

Figure 1262 - Maps and graphs showing movements of A25A between 2019-11-06 and 2019-11-09 inclusive.

Pelican A15A - Active from February 18, 2019 to June 26, 2019

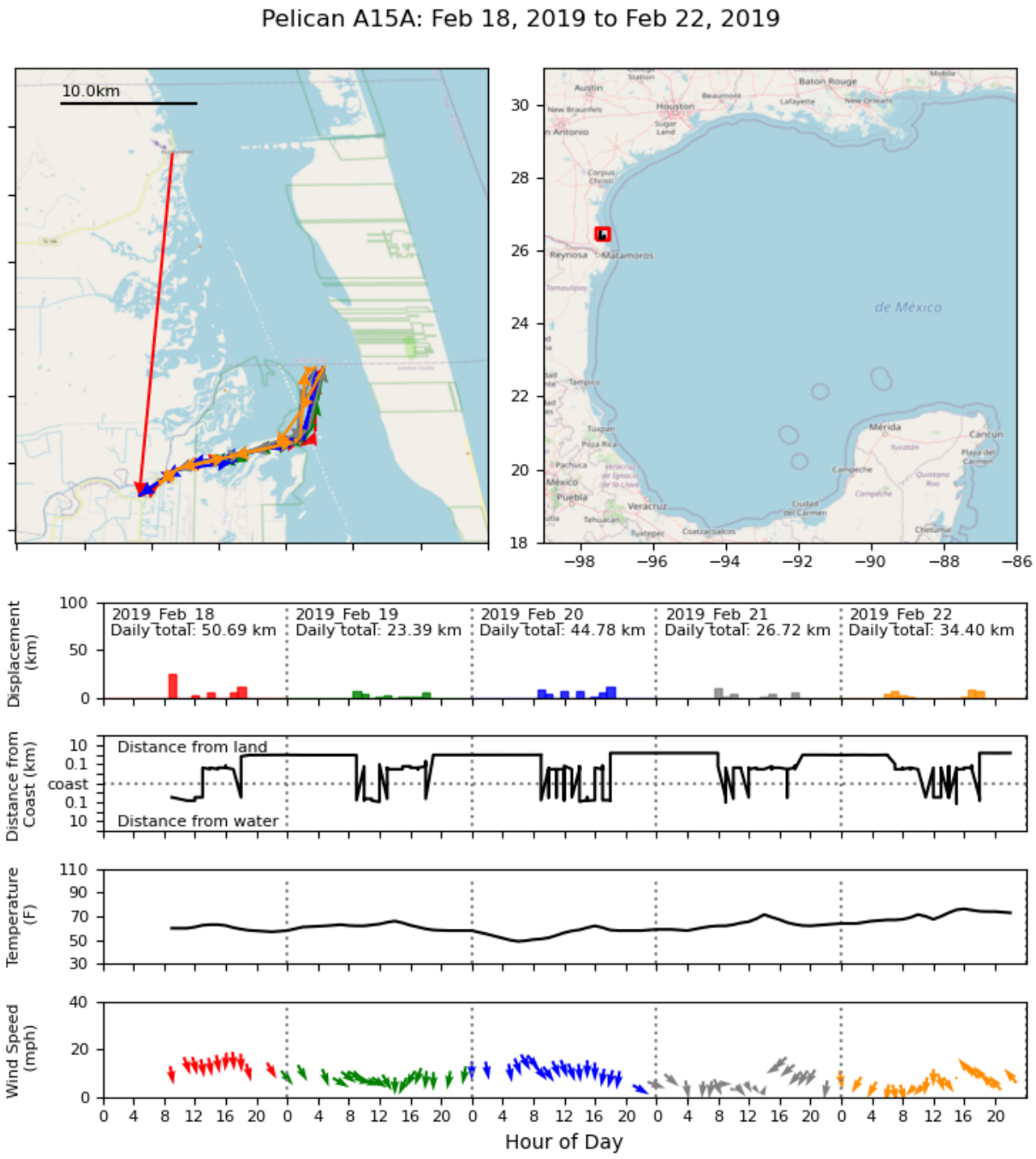

Figure 1263 - Maps and graphs showing movements of A15A between 2019-02-18 and 2019-02-21 inclusive.

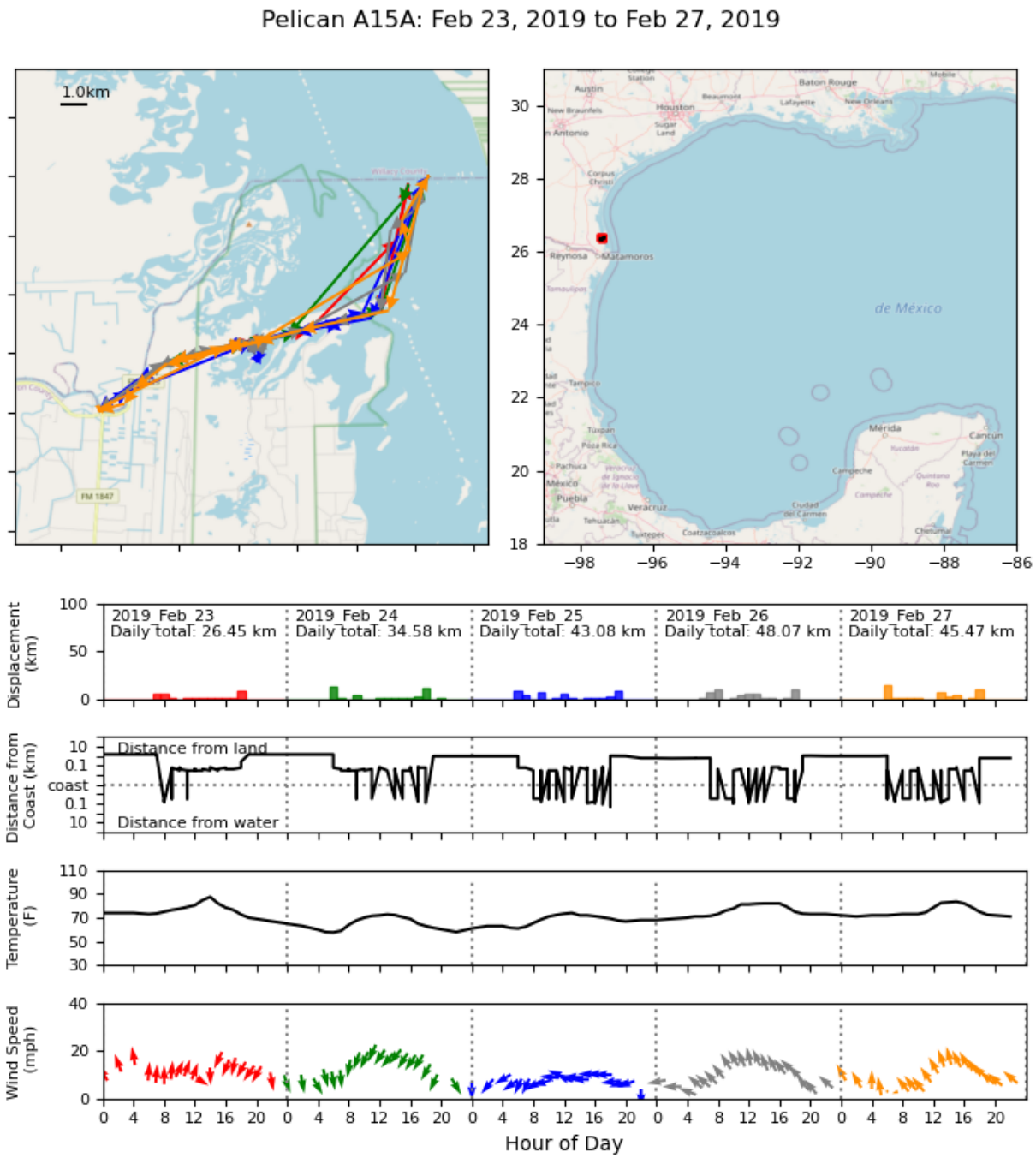

Figure 1264 - Maps and graphs showing movements of A15A between 2019-02-23 and 2019-02-26 inclusive.

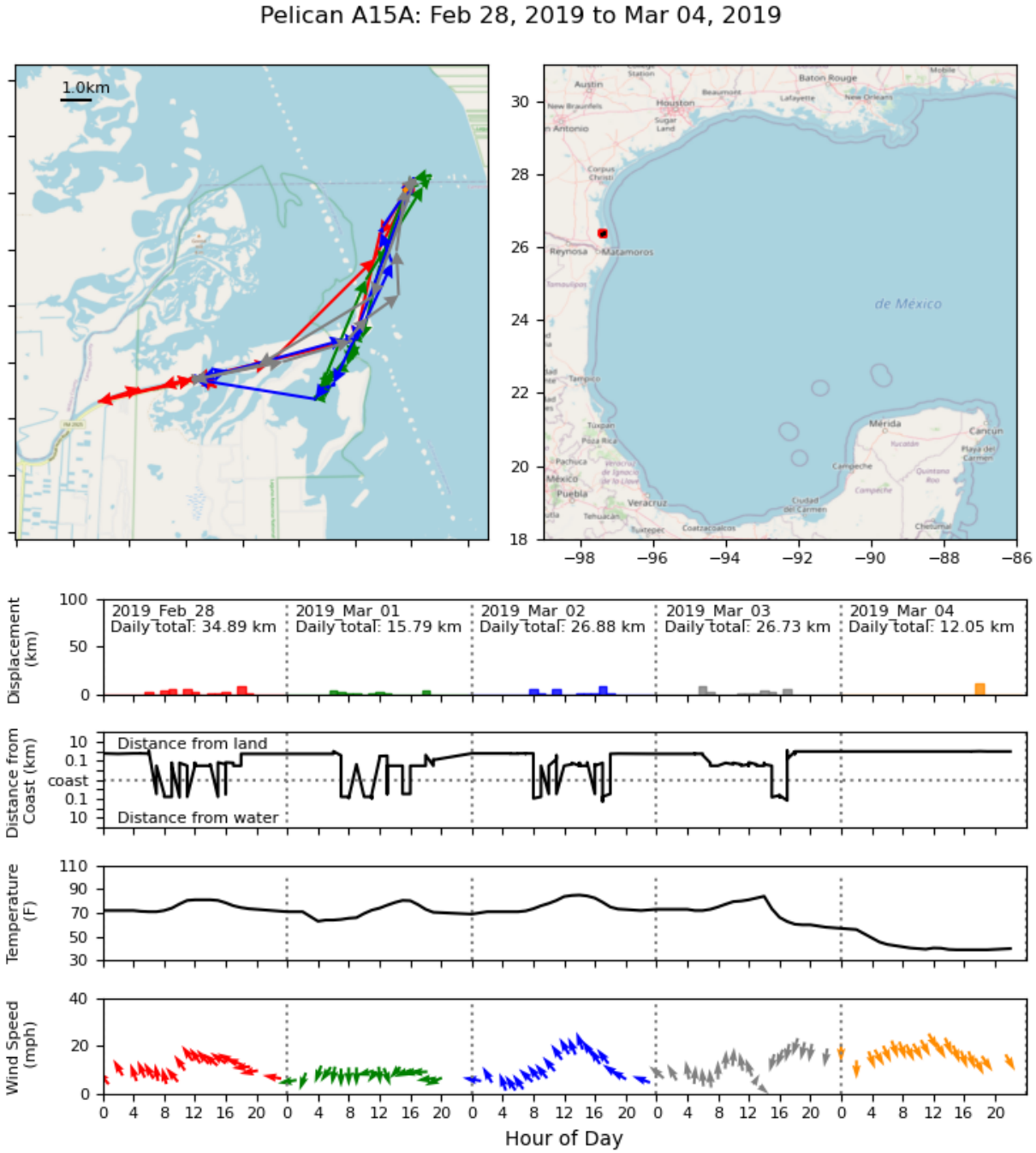

Figure 1265 - Maps and graphs showing movements of A15A between 2019-02-28 and 2019-03-03 inclusive.

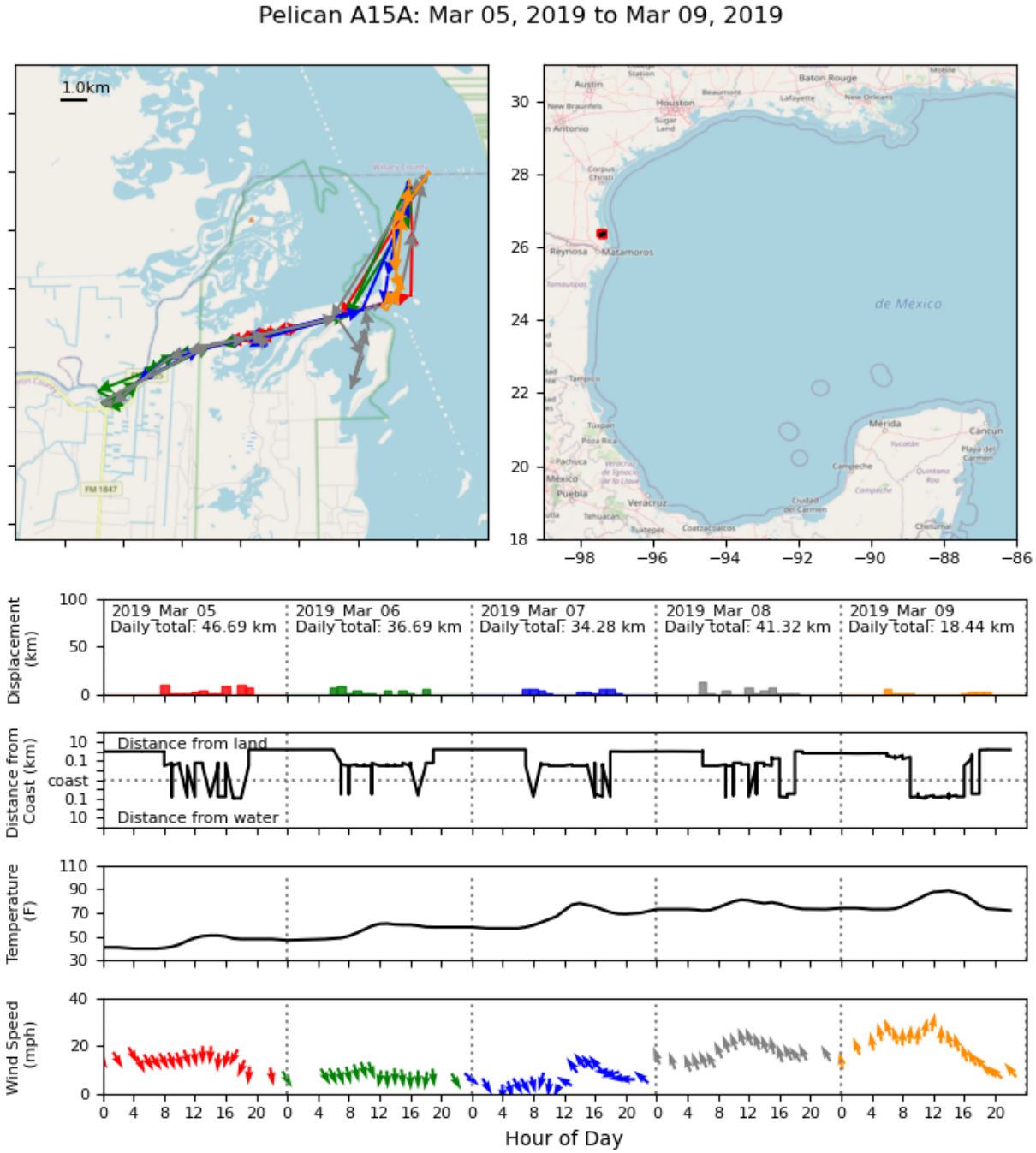

Figure 1266 - Maps and graphs showing movements of A15A between 2019-03-05 and 2019-03-08 inclusive.

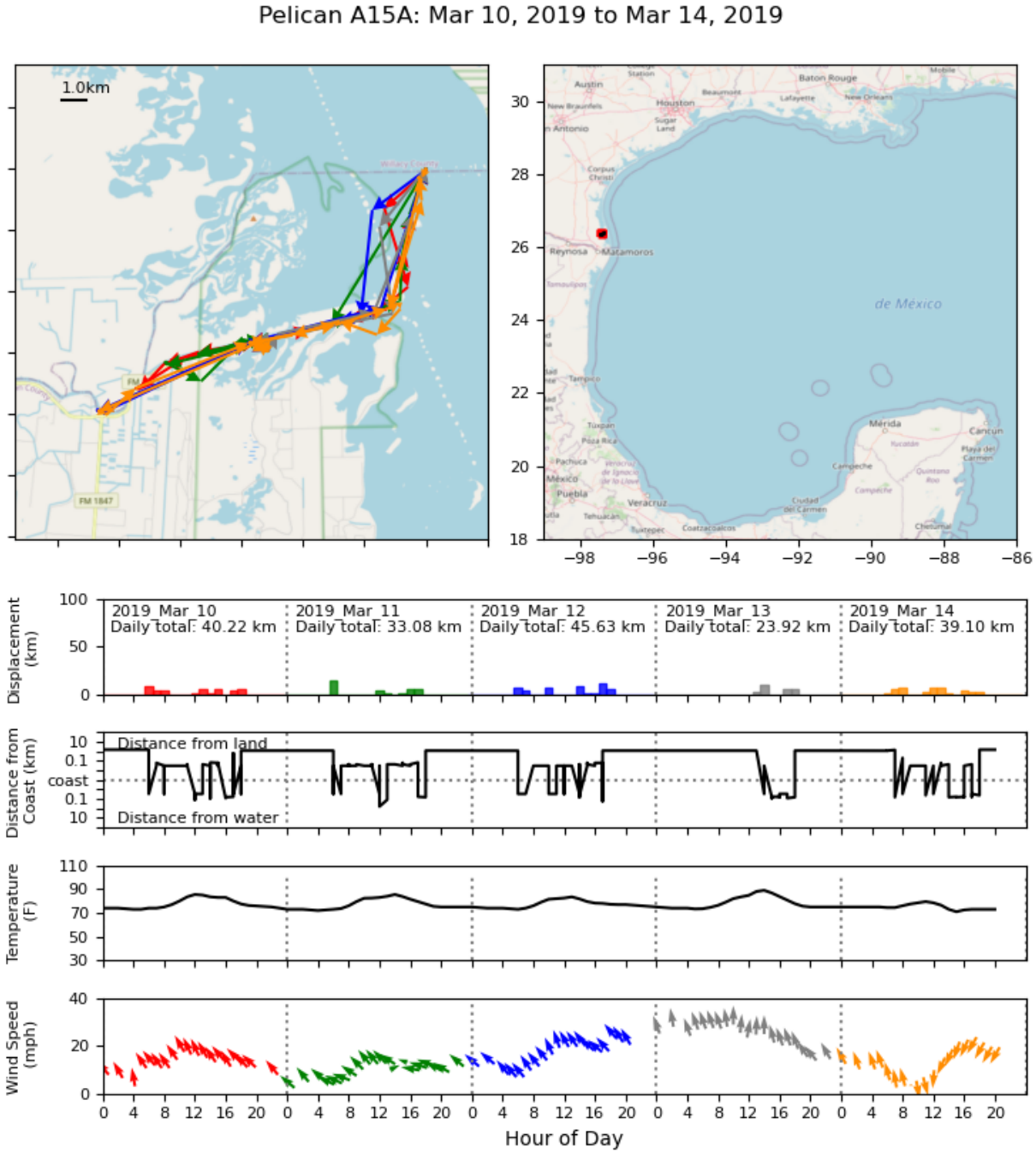

Figure 1267 - Maps and graphs showing movements of A15A between 2019-03-10 and 2019-03-13 inclusive.

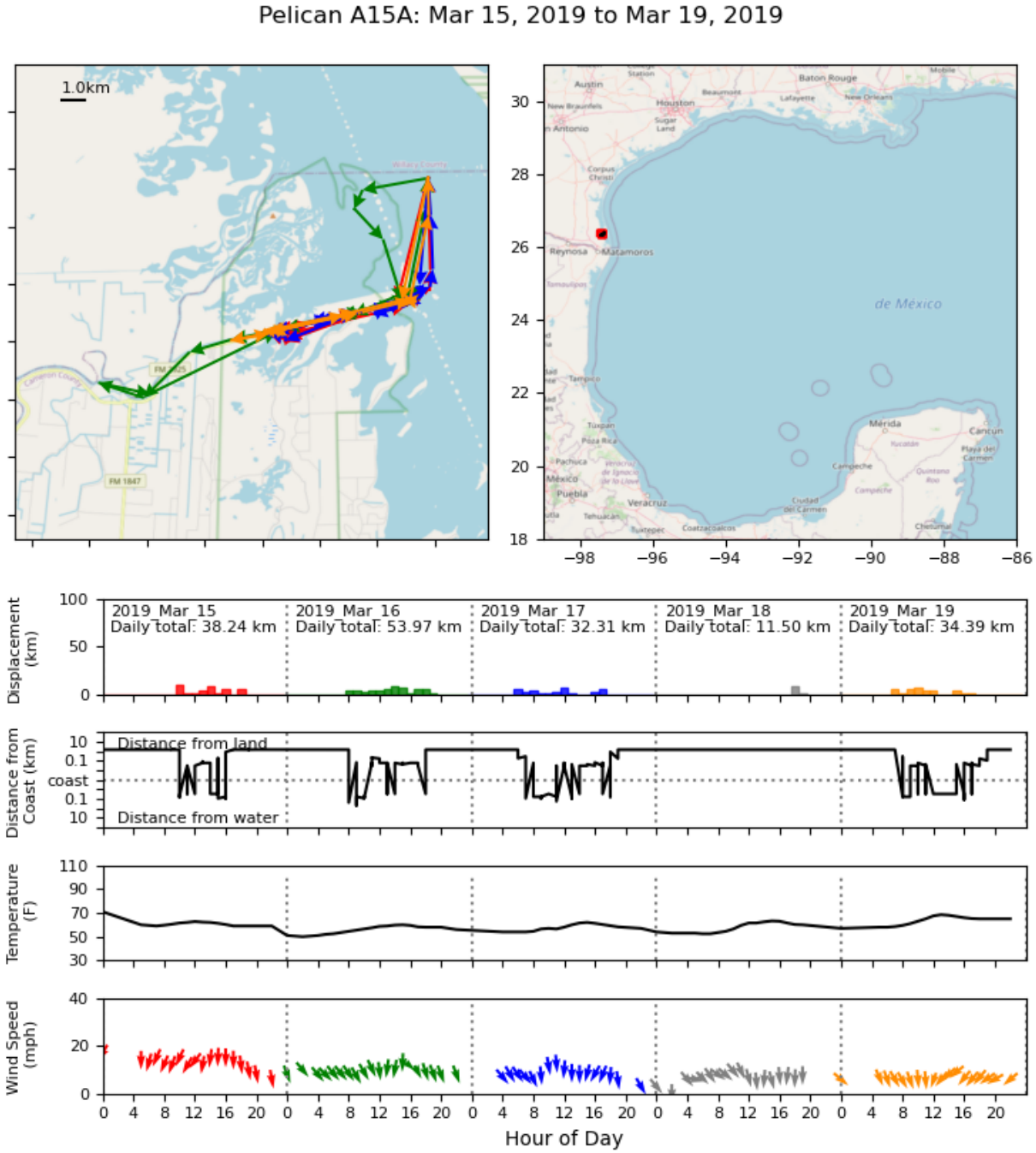

Figure 1268 - Maps and graphs showing movements of A15A between 2019-03-15 and 2019-03-18 inclusive.

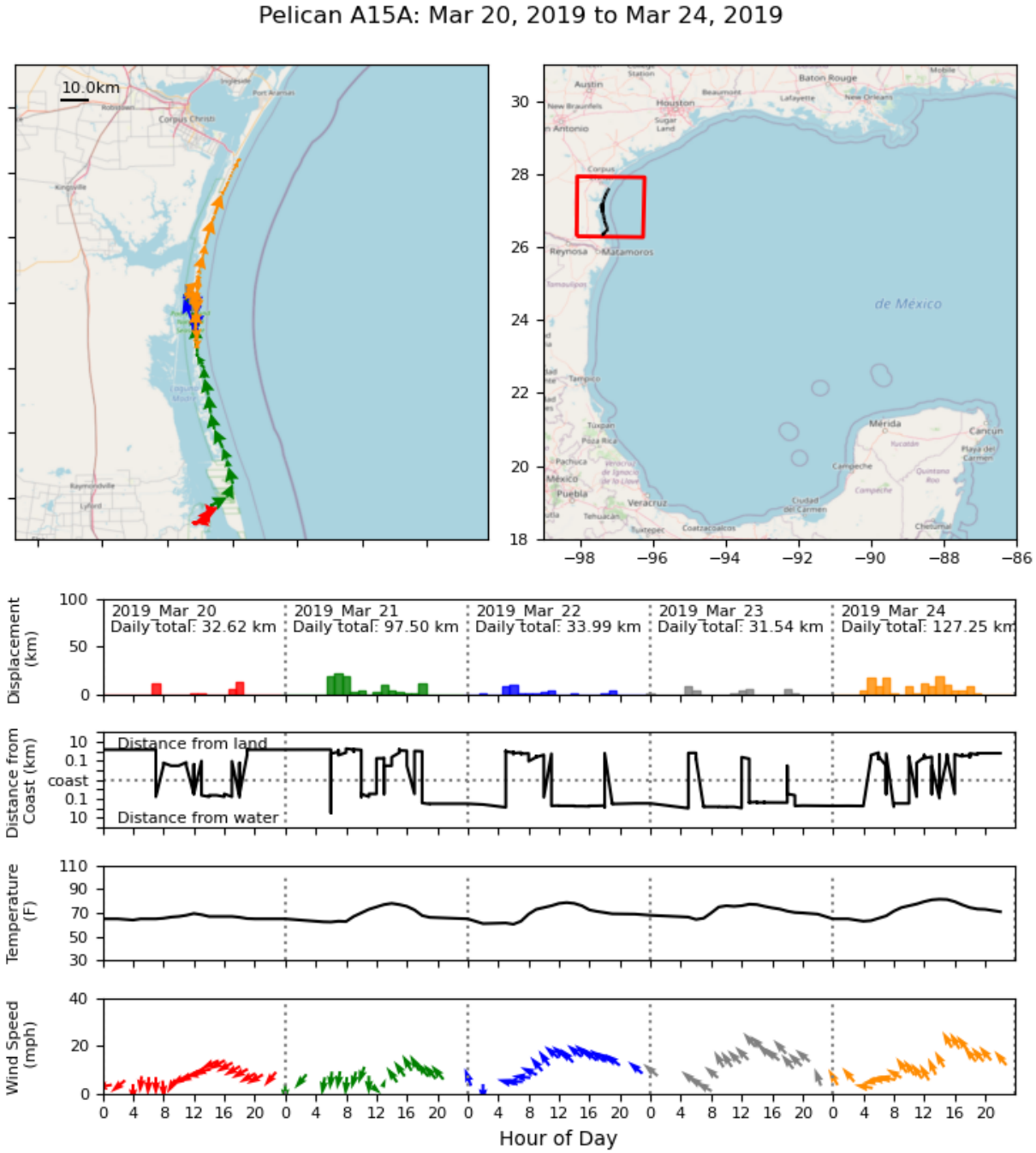

Figure 1269 - Maps and graphs showing movements of A15A between 2019-03-20 and 2019-03-23 inclusive.

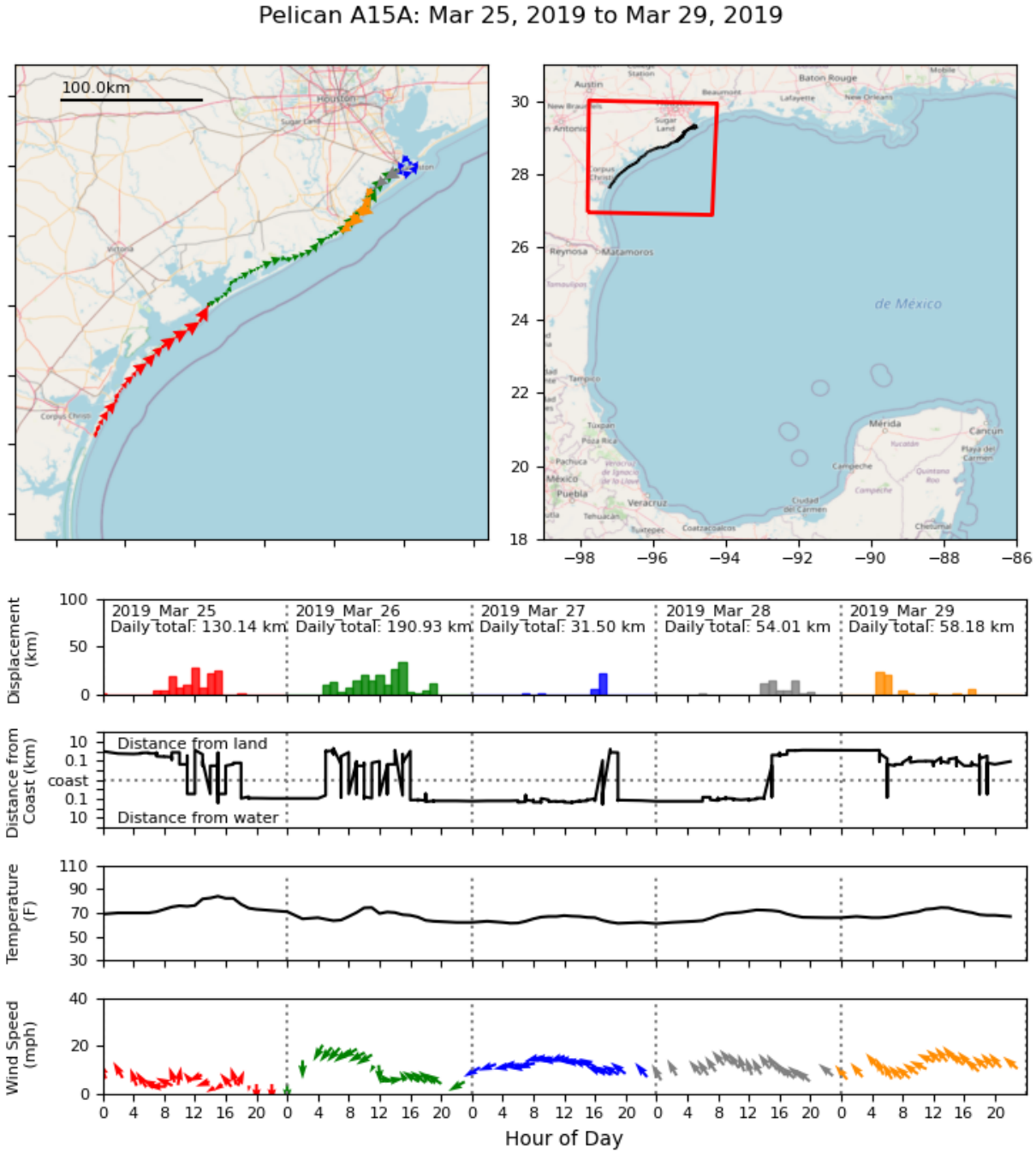

Figure 1270 - Maps and graphs showing movements of A15A between 2019-03-25 and 2019-03-28 inclusive.

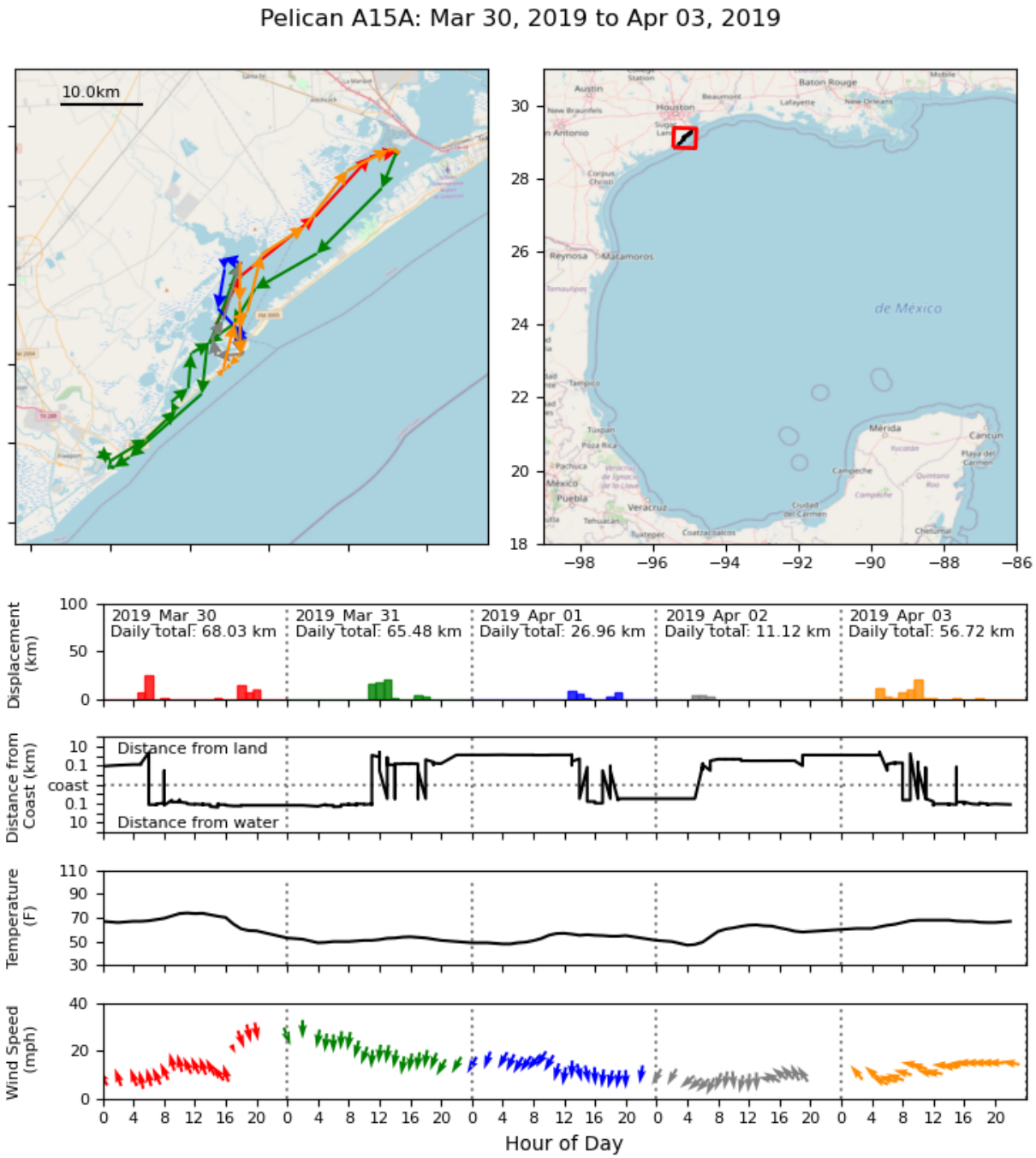

Figure 1271 - Maps and graphs showing movements of A15A between 2019-03-30 and 2019-04-02 inclusive.

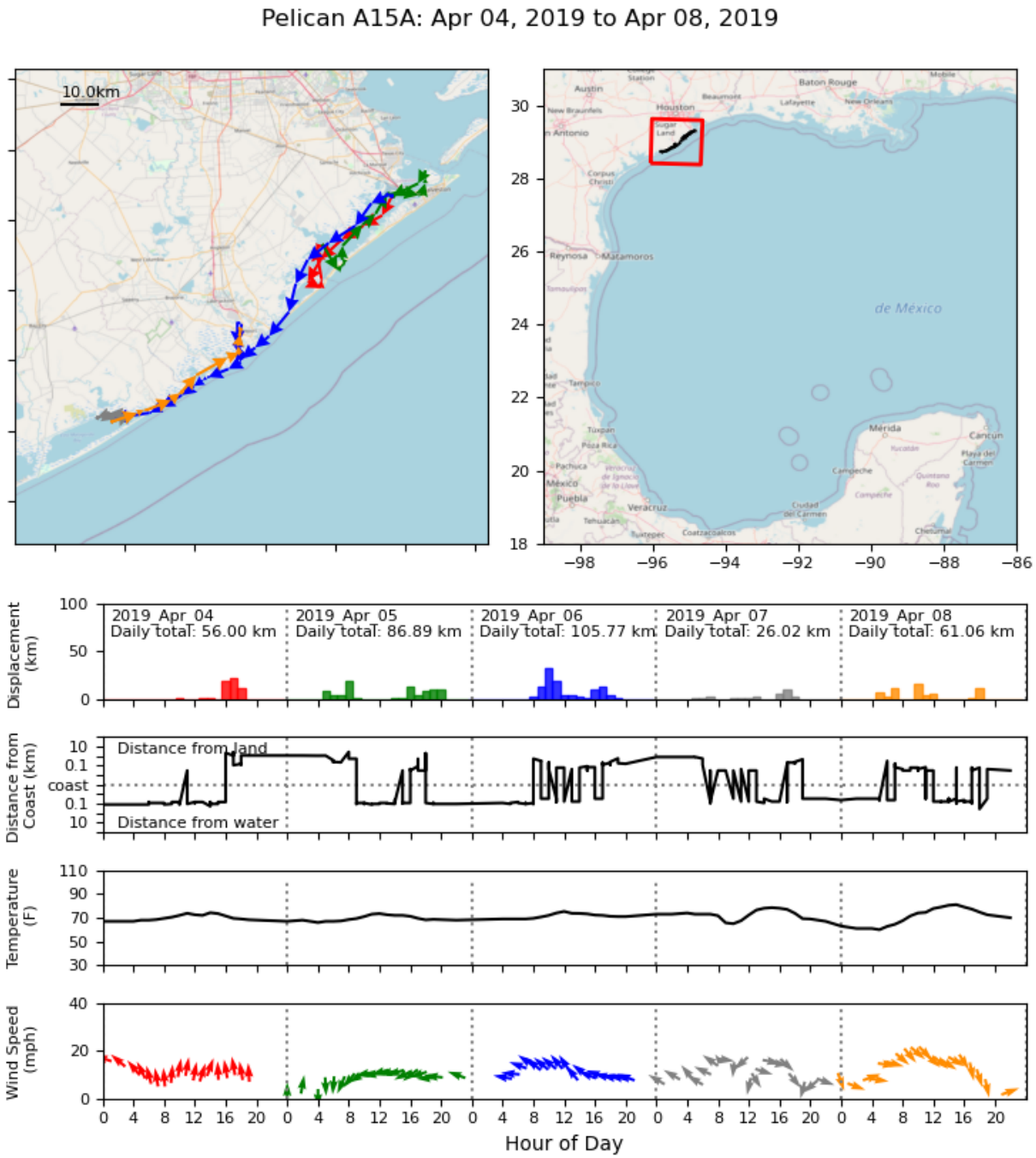

Figure 1272 - Maps and graphs showing movements of A15A between 2019-04-04 and 2019-04-07 inclusive.

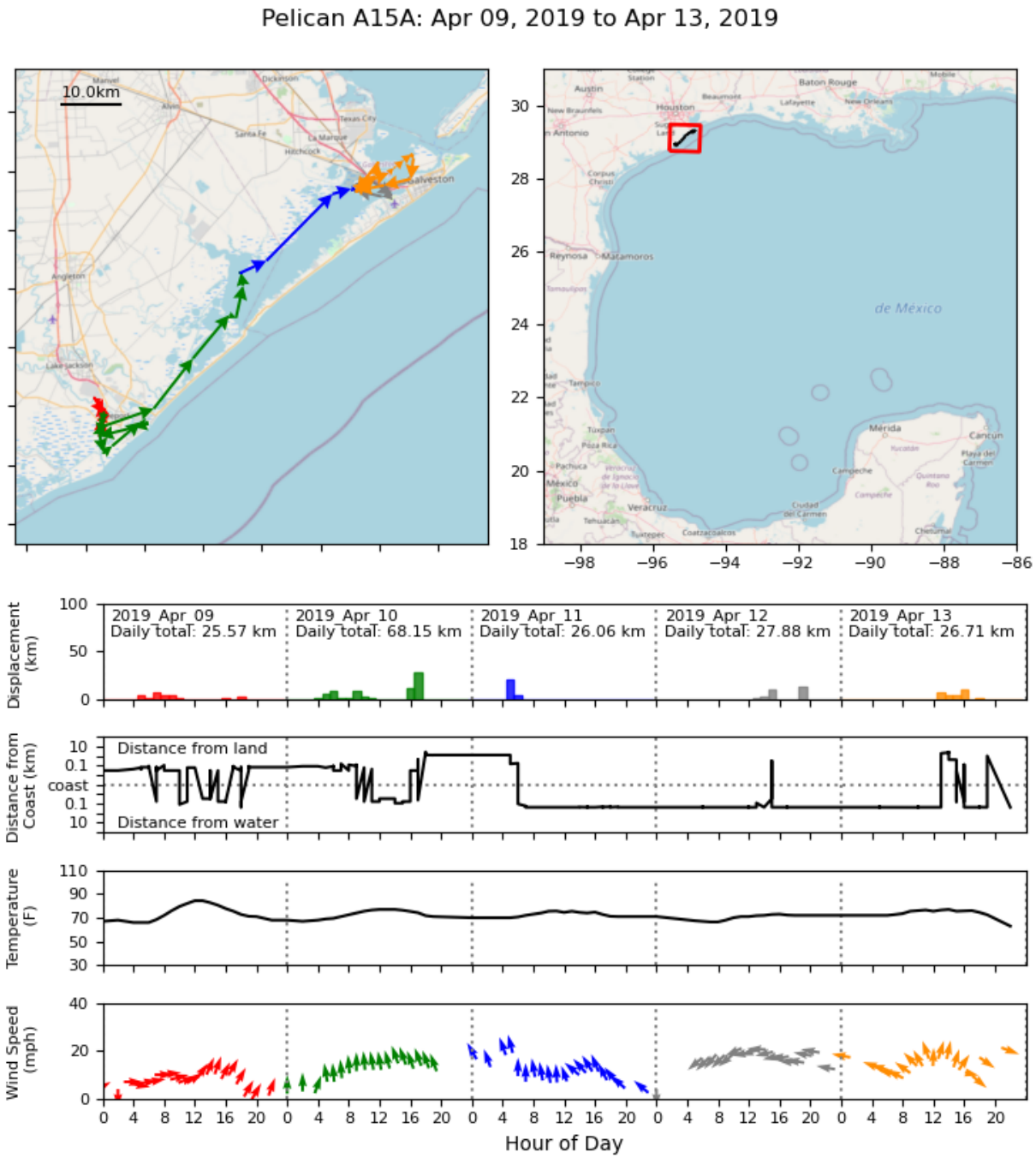

Figure 1273 - Maps and graphs showing movements of A15A between 2019-04-09 and 2019-04-12 inclusive.

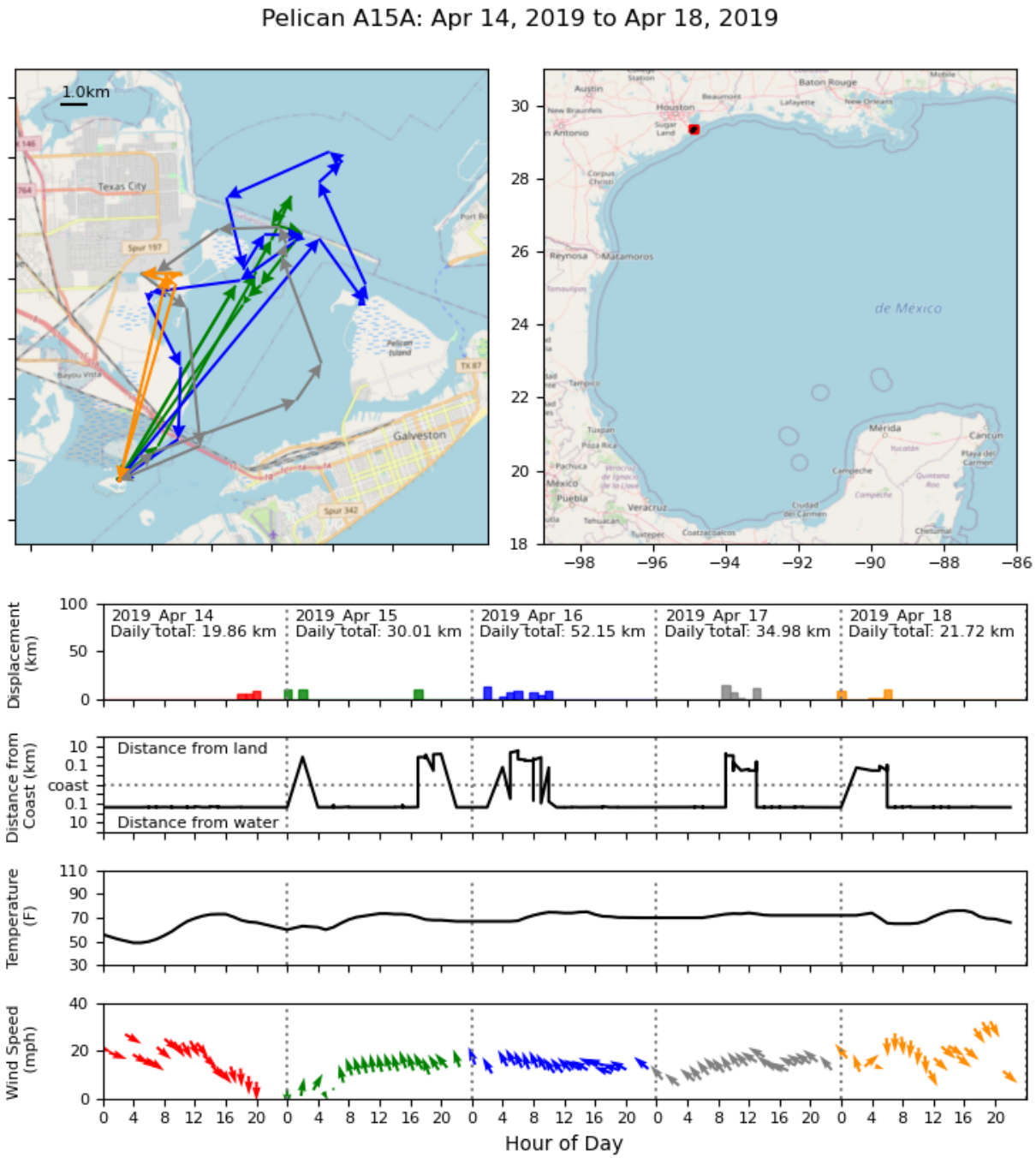

Figure 1274 - Maps and graphs showing movements of A15A between 2019-04-14 and 2019-04-17 inclusive.

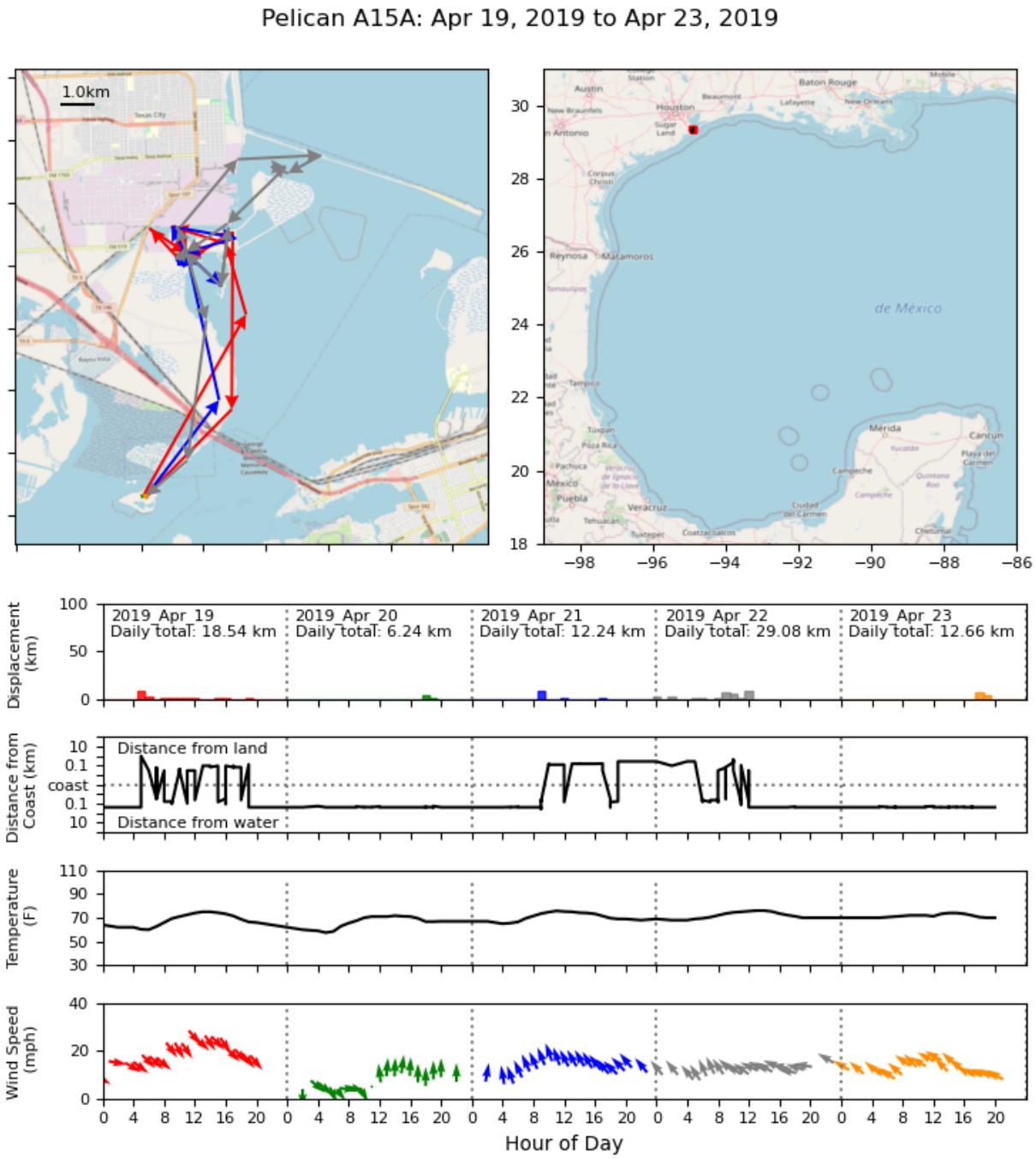

Figure 1275 - Maps and graphs showing movements of A15A between 2019-04-19 and 2019-04-22 inclusive.

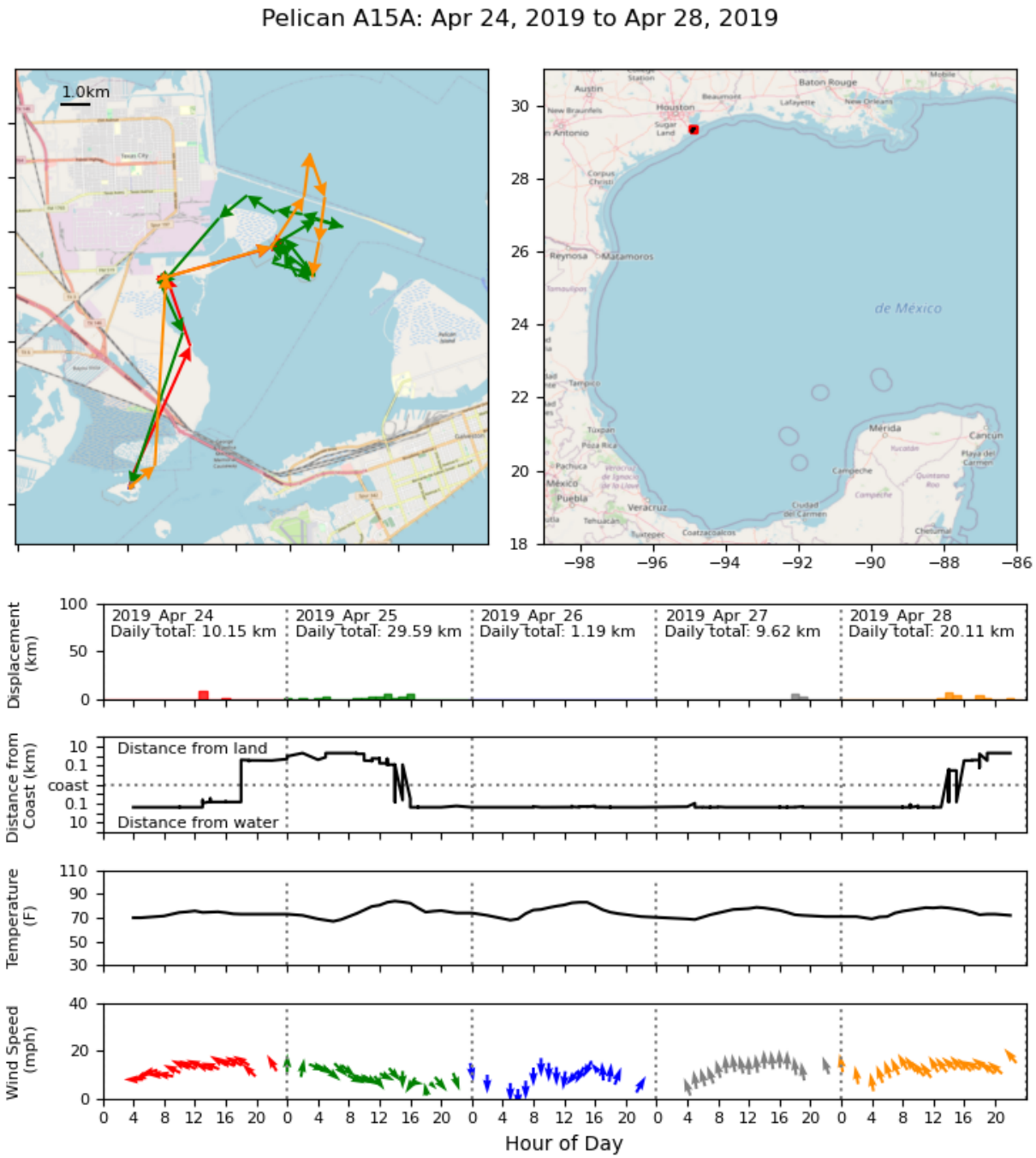

Figure 1276 - Maps and graphs showing movements of A15A between 2019-04-24 and 2019-04-27 inclusive.

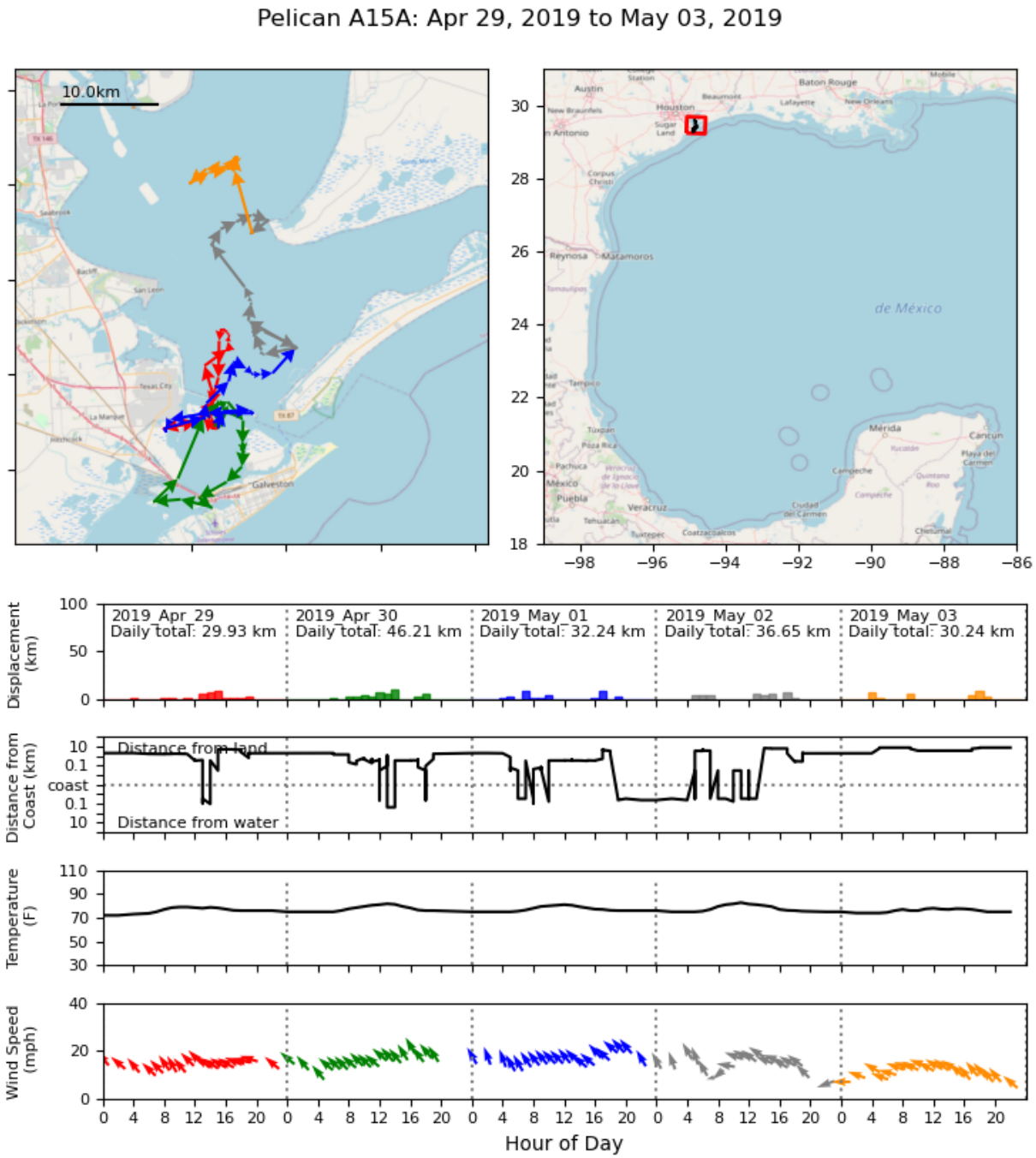

Figure 1277 - Maps and graphs showing movements of A15A between 2019-04-29 and 2019-05-02 inclusive.

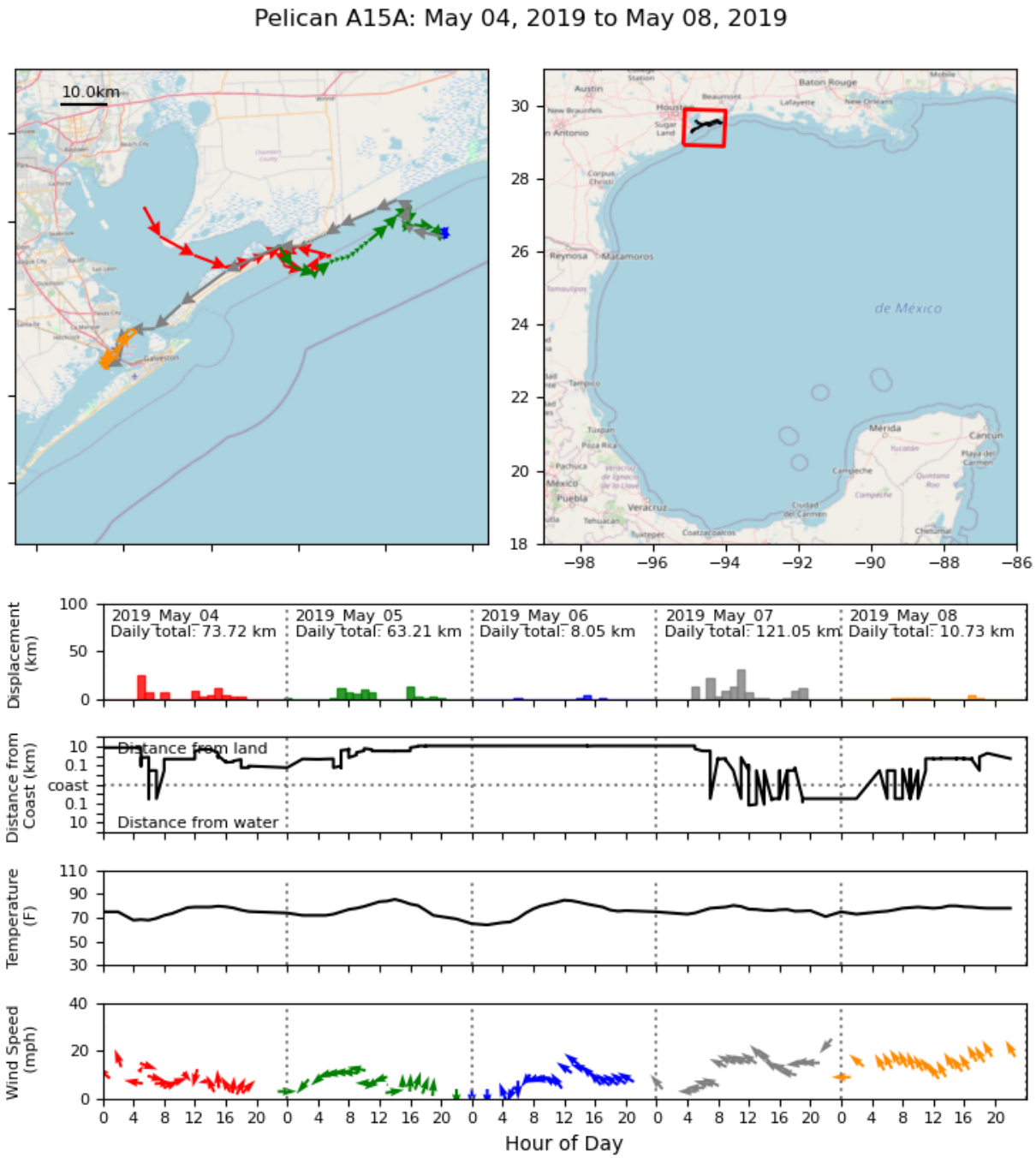

Figure 1278 - Maps and graphs showing movements of A15A between 2019-05-04 and 2019-05-07 inclusive.

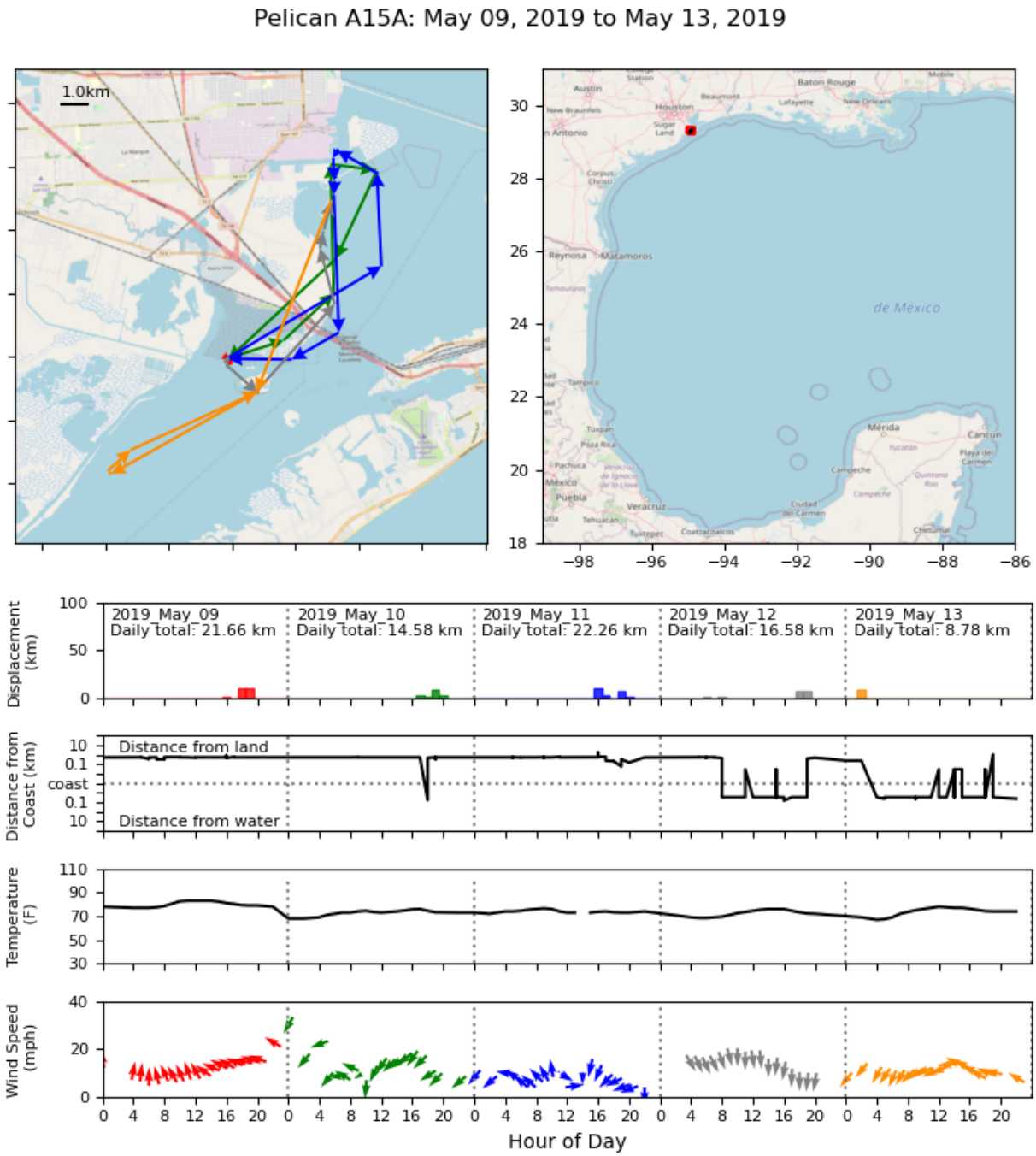

Figure 1279 - Maps and graphs showing movements of A15A between 2019-05-09 and 2019-05-12 inclusive.

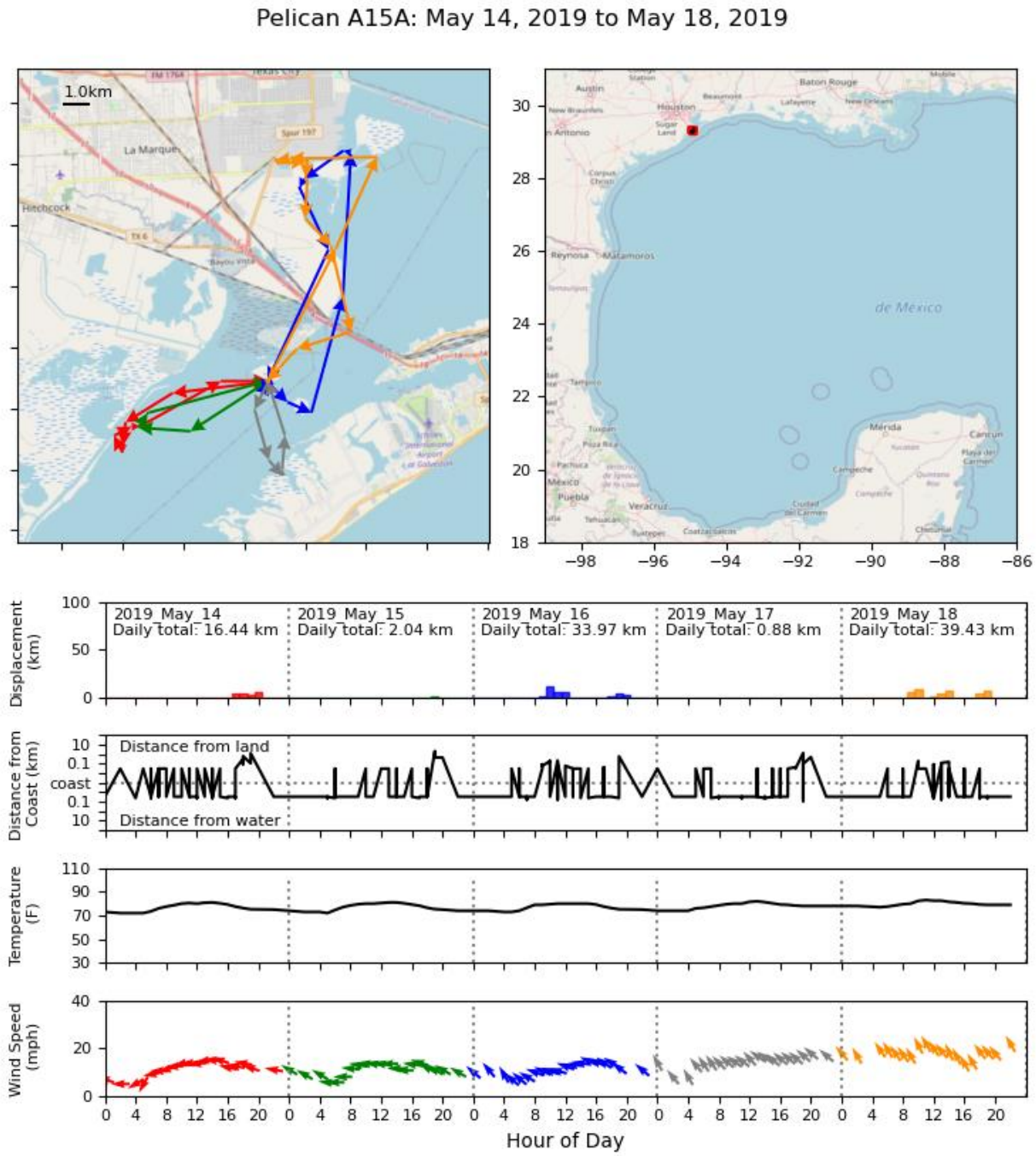

Figure 1280 - Maps and graphs showing movements of A15A between 2019-05-14 and 2019-05-17 inclusive.

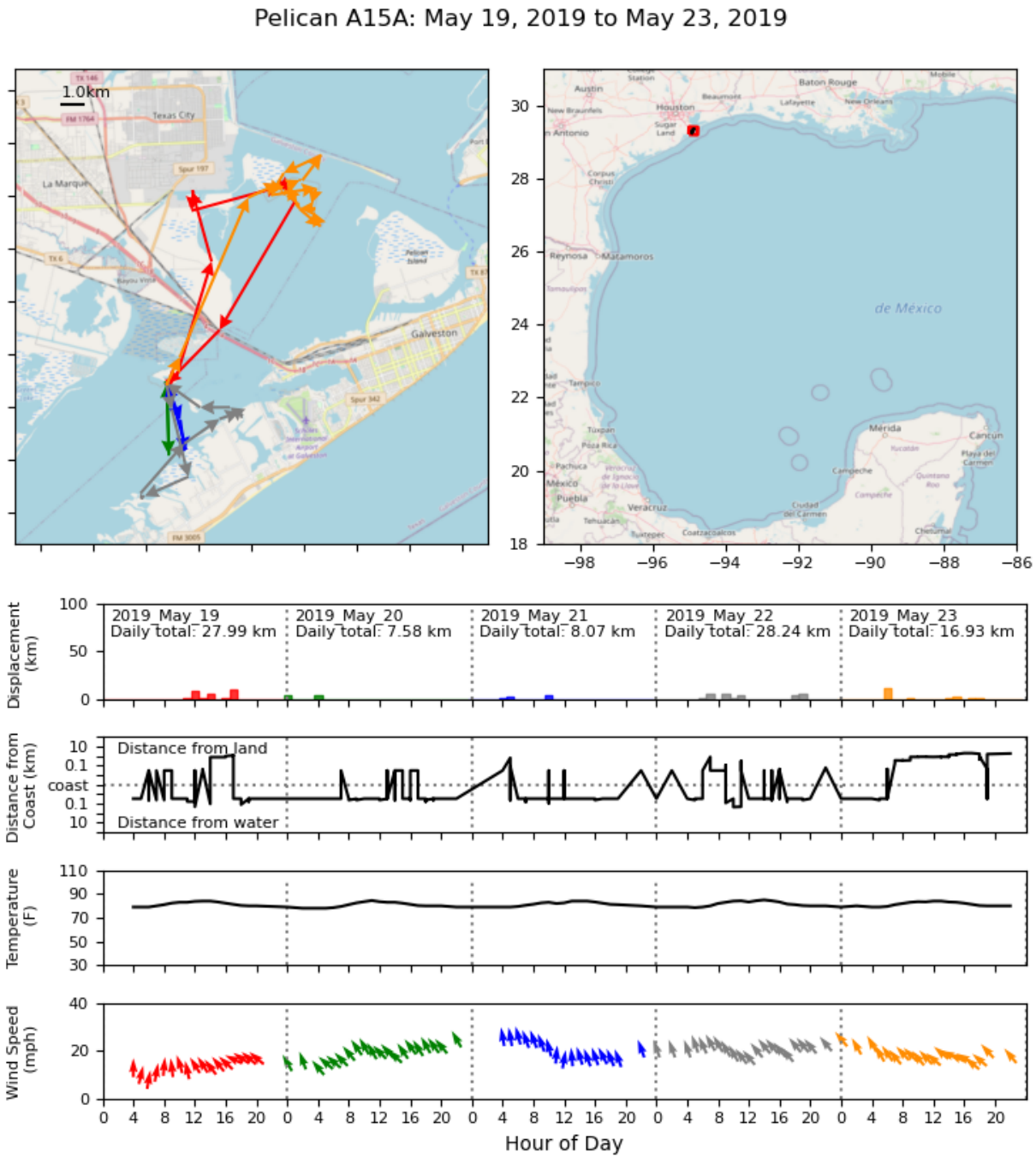

Figure 1281 - Maps and graphs showing movements of A15A between 2019-05-19 and 2019-05-22 inclusive.

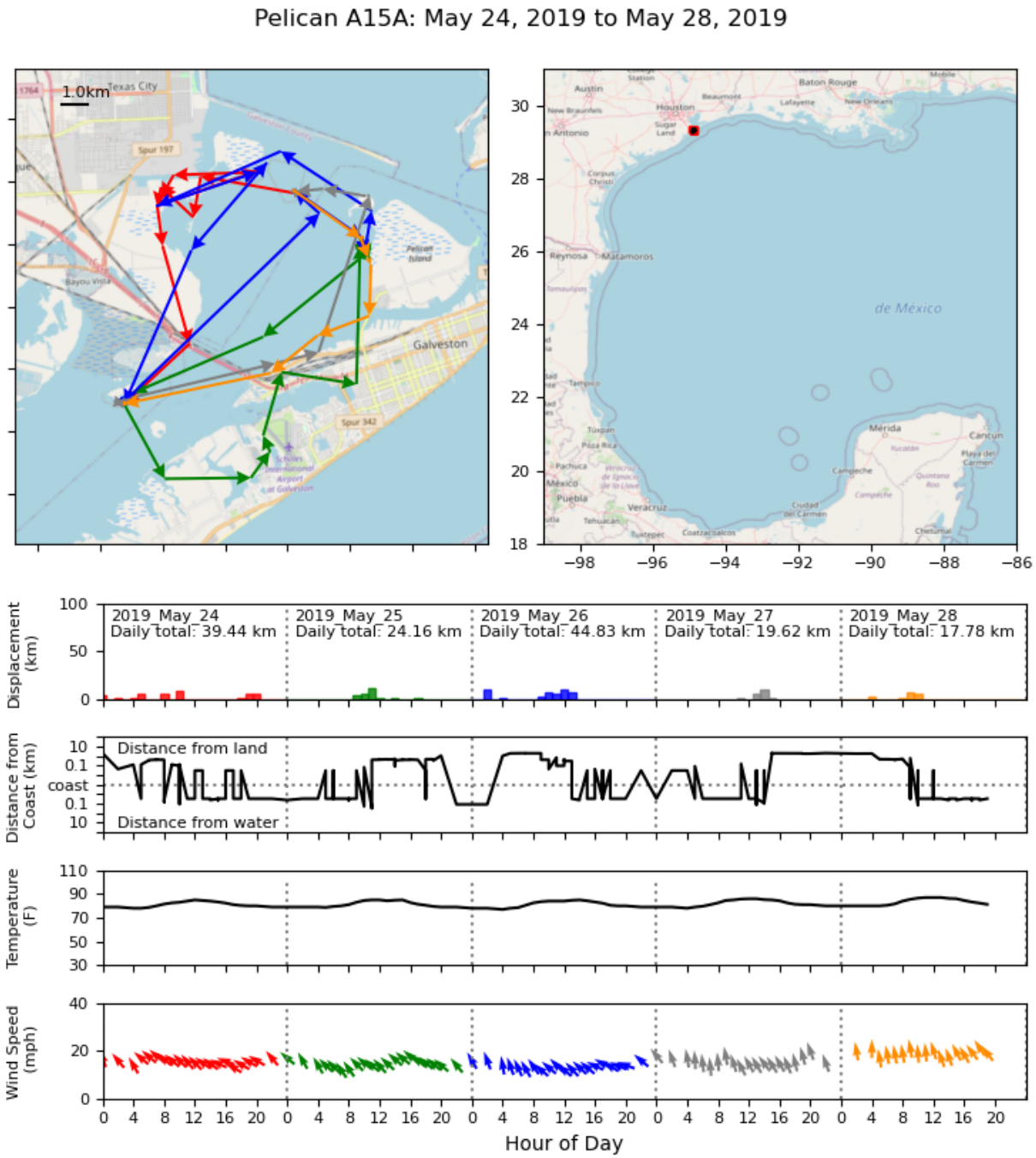

Figure 1282 - Maps and graphs showing movements of A15A between 2019-05-24 and 2019-05-27 inclusive.

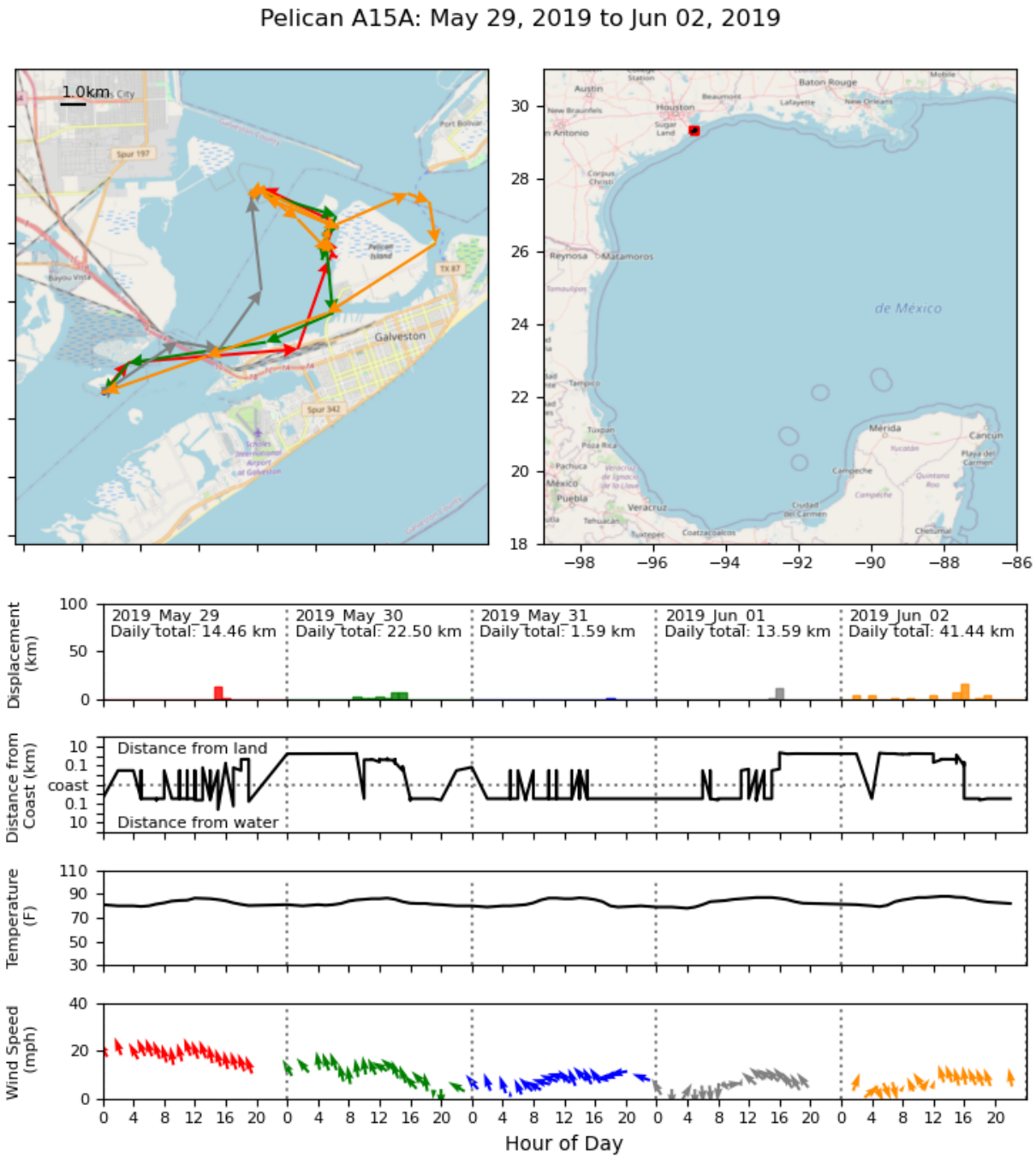

Figure 1283 - Maps and graphs showing movements of A15A between 2019-05-29 and 2019-06-01 inclusive.

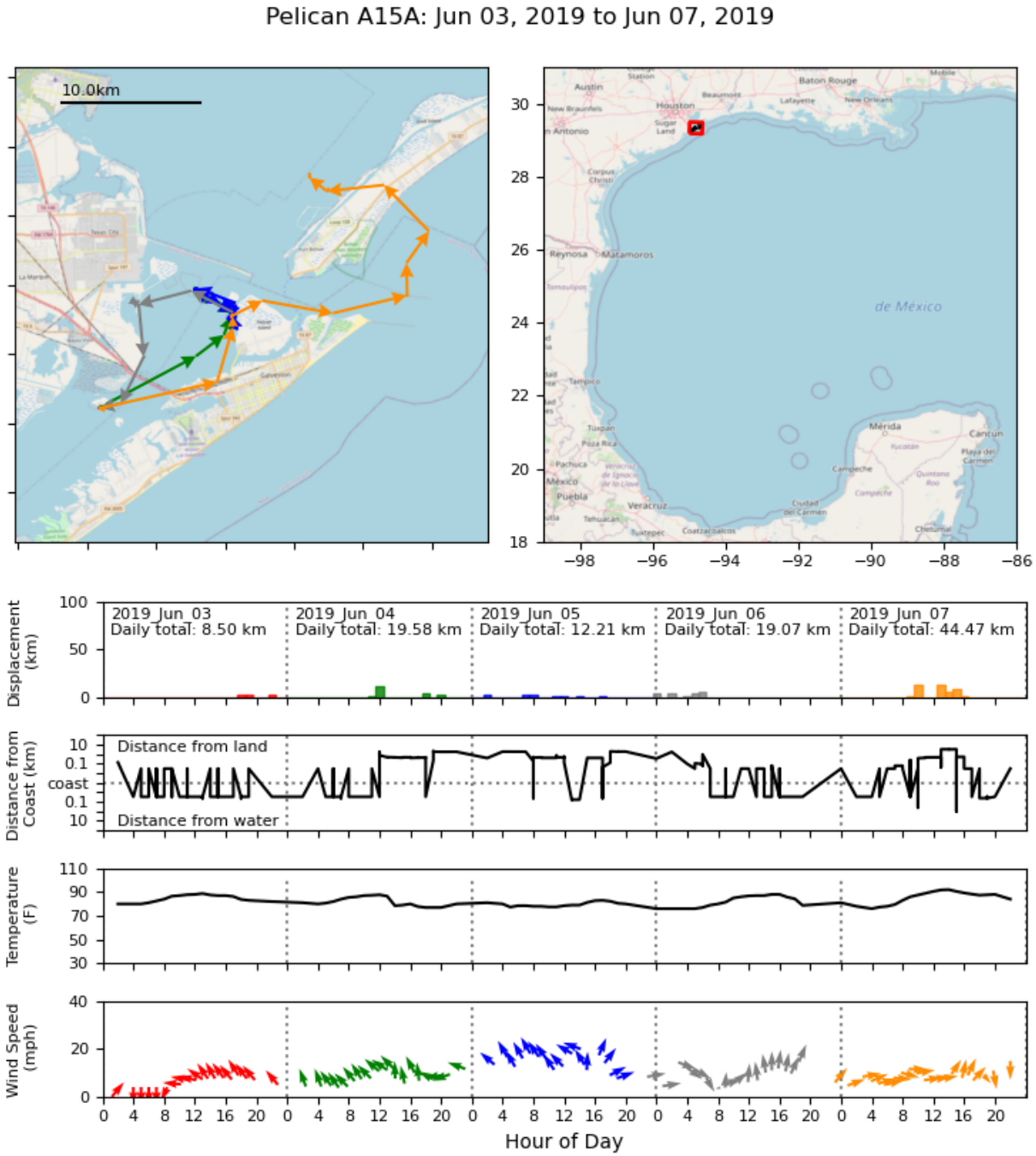

Figure 1284 - Maps and graphs showing movements of A15A between 2019-06-03 and 2019-06-06 inclusive.

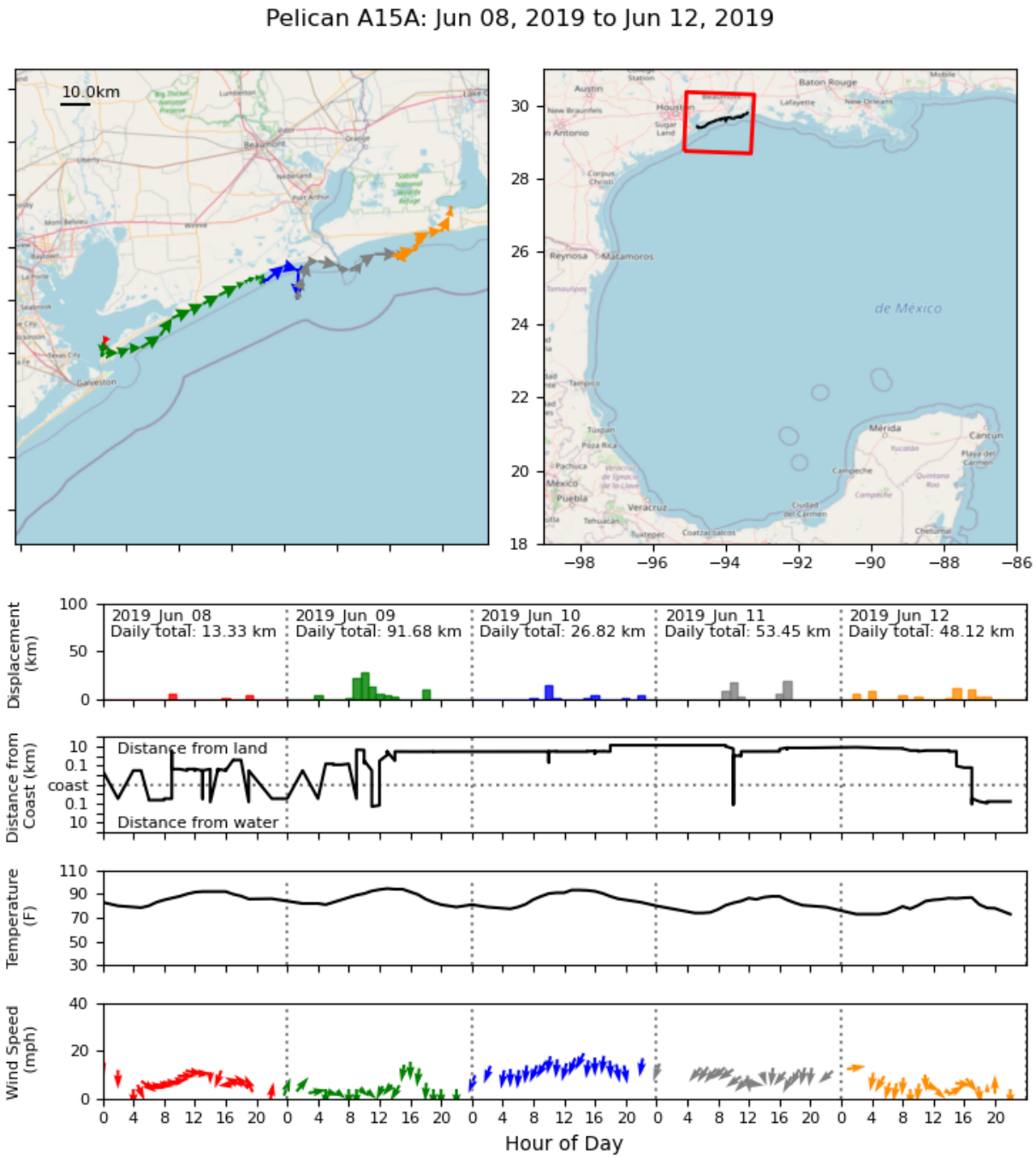

Figure 1285 - Maps and graphs showing movements of A15A between 2019-06-08 and 2019-06-11 inclusive.

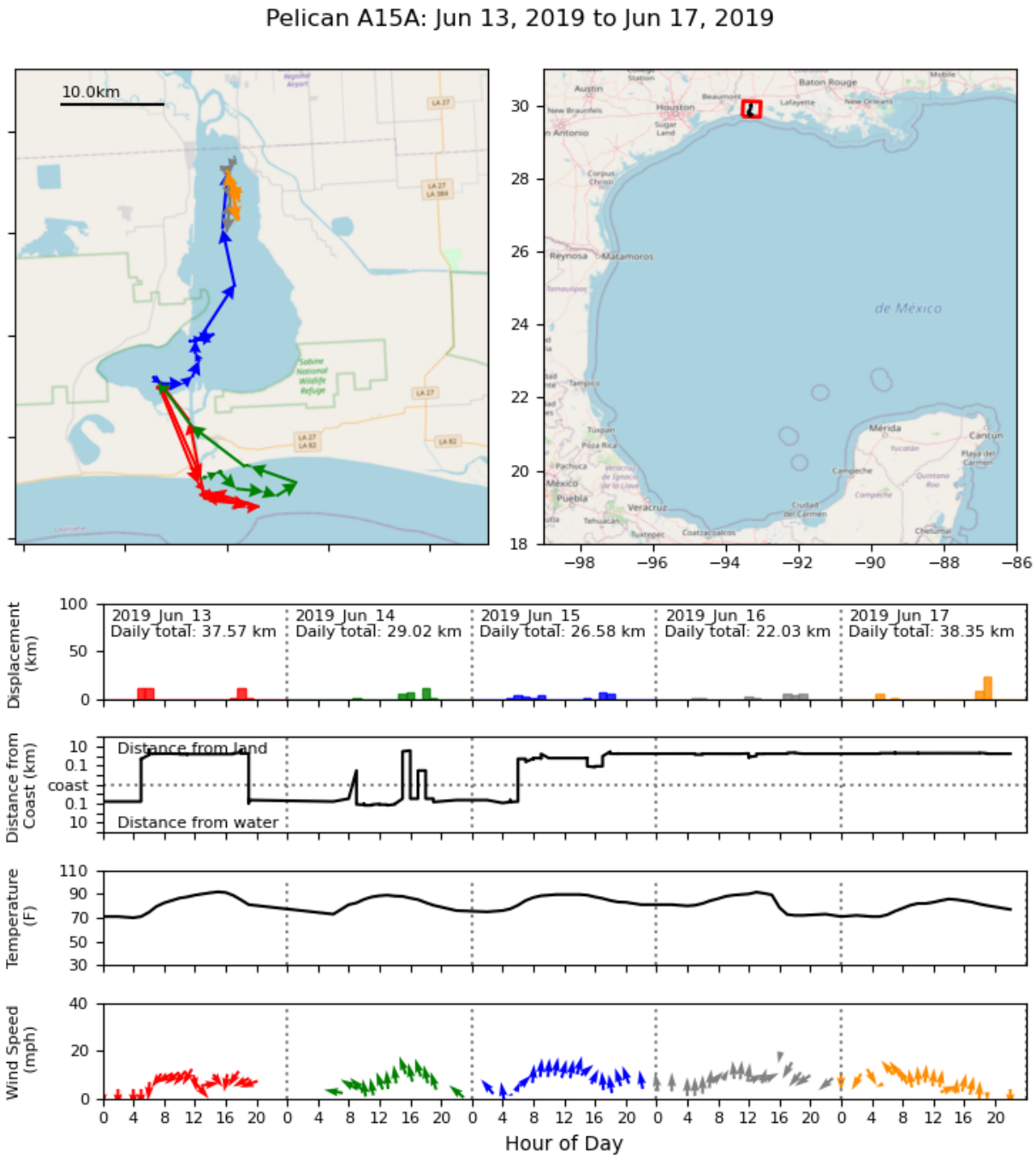

Figure 1286 - Maps and graphs showing movements of A15A between 2019-06-13 and 2019-06-16 inclusive.

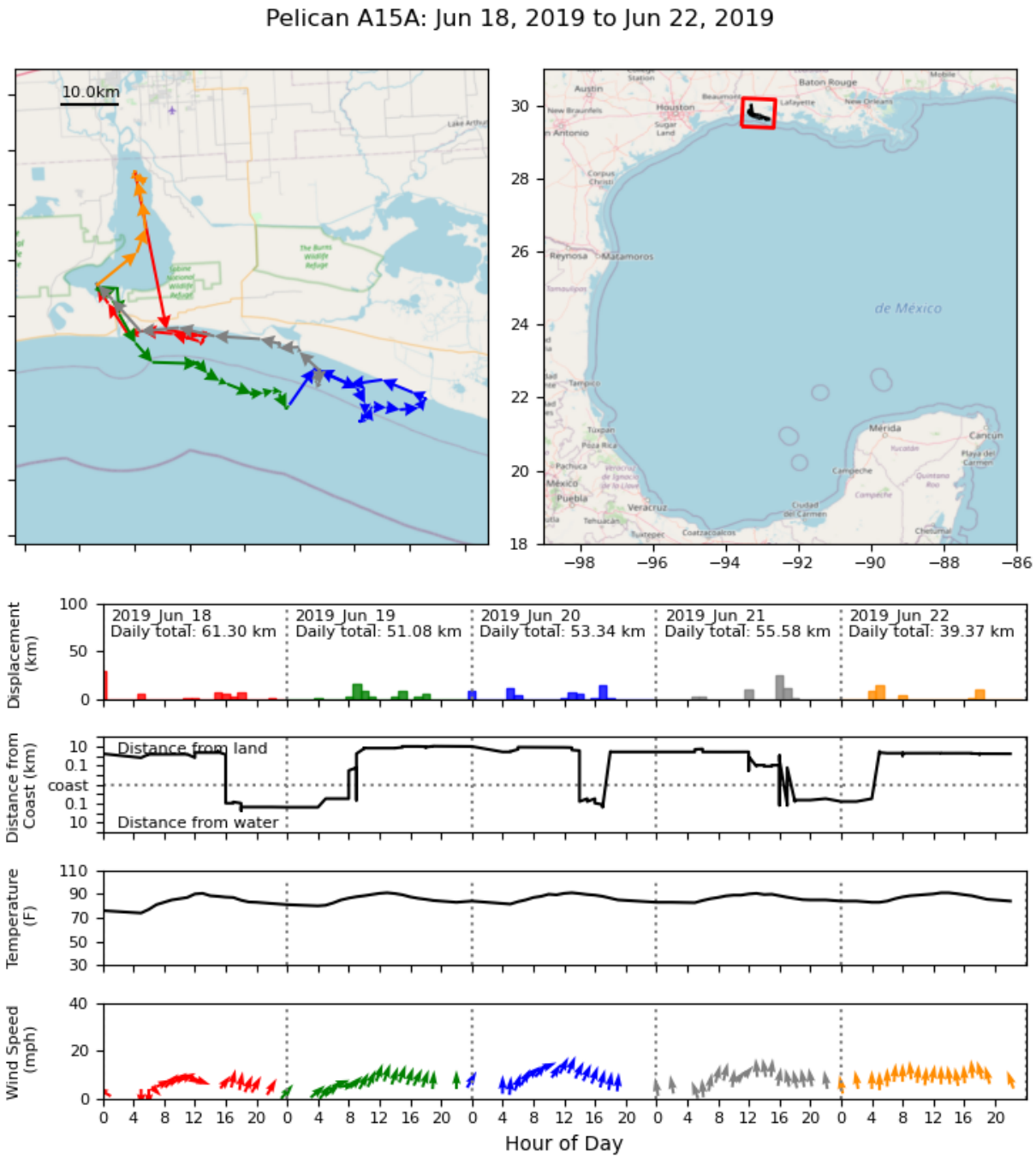

Figure 1287 - Maps and graphs showing movements of A15A between 2019-06-18 and 2019-06-21 inclusive.

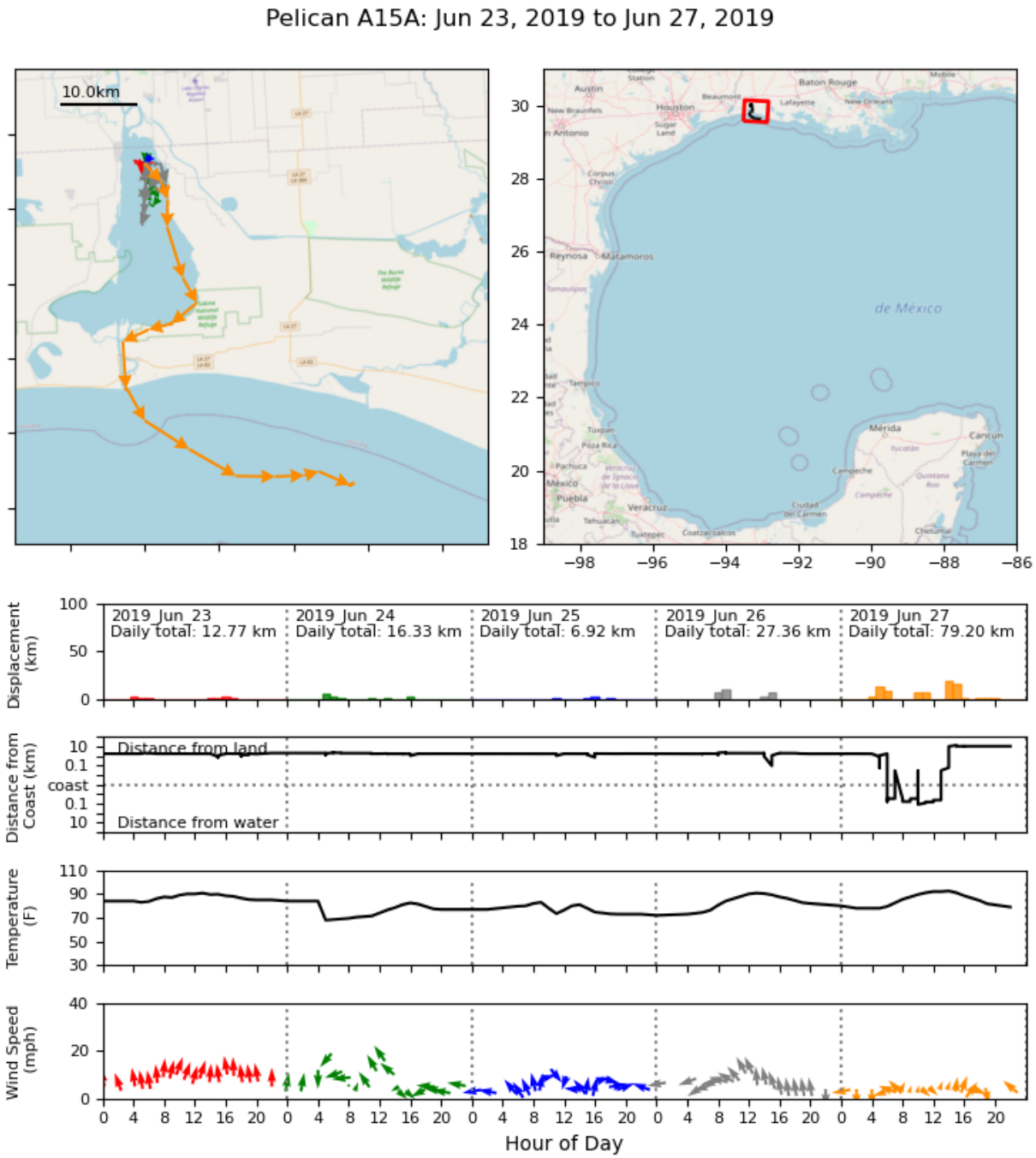

Figure 1288 - Maps and graphs showing movements of A15A between 2019-06-23 and 2019-06-26 inclusive.

Pelican BBA6C - Active from February 19, 2019 to November 19, 2019

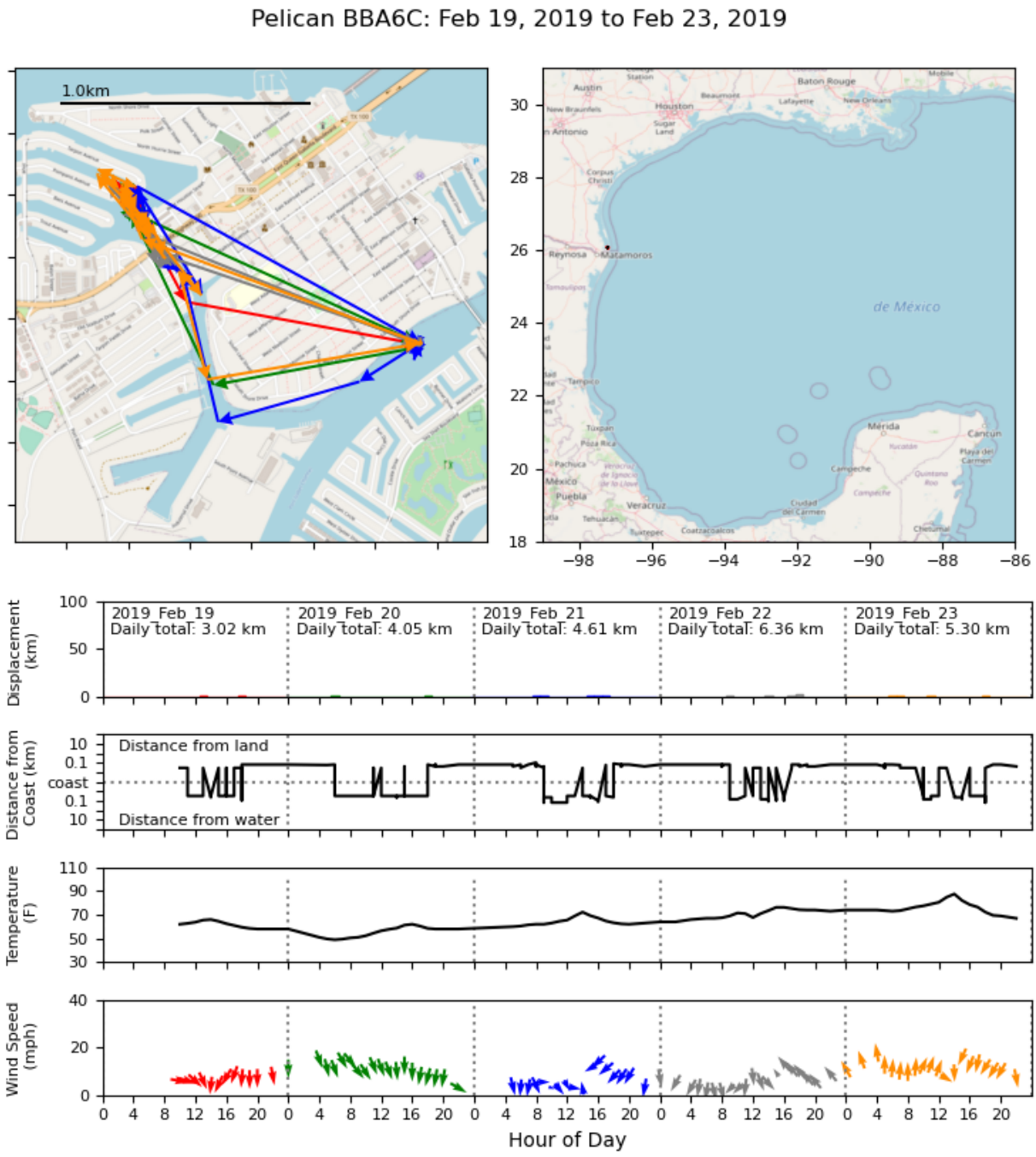

Figure 1289 - Maps and graphs showing movements of BBA6C between 2019-02-19 and 2019-02-22 inclusive.

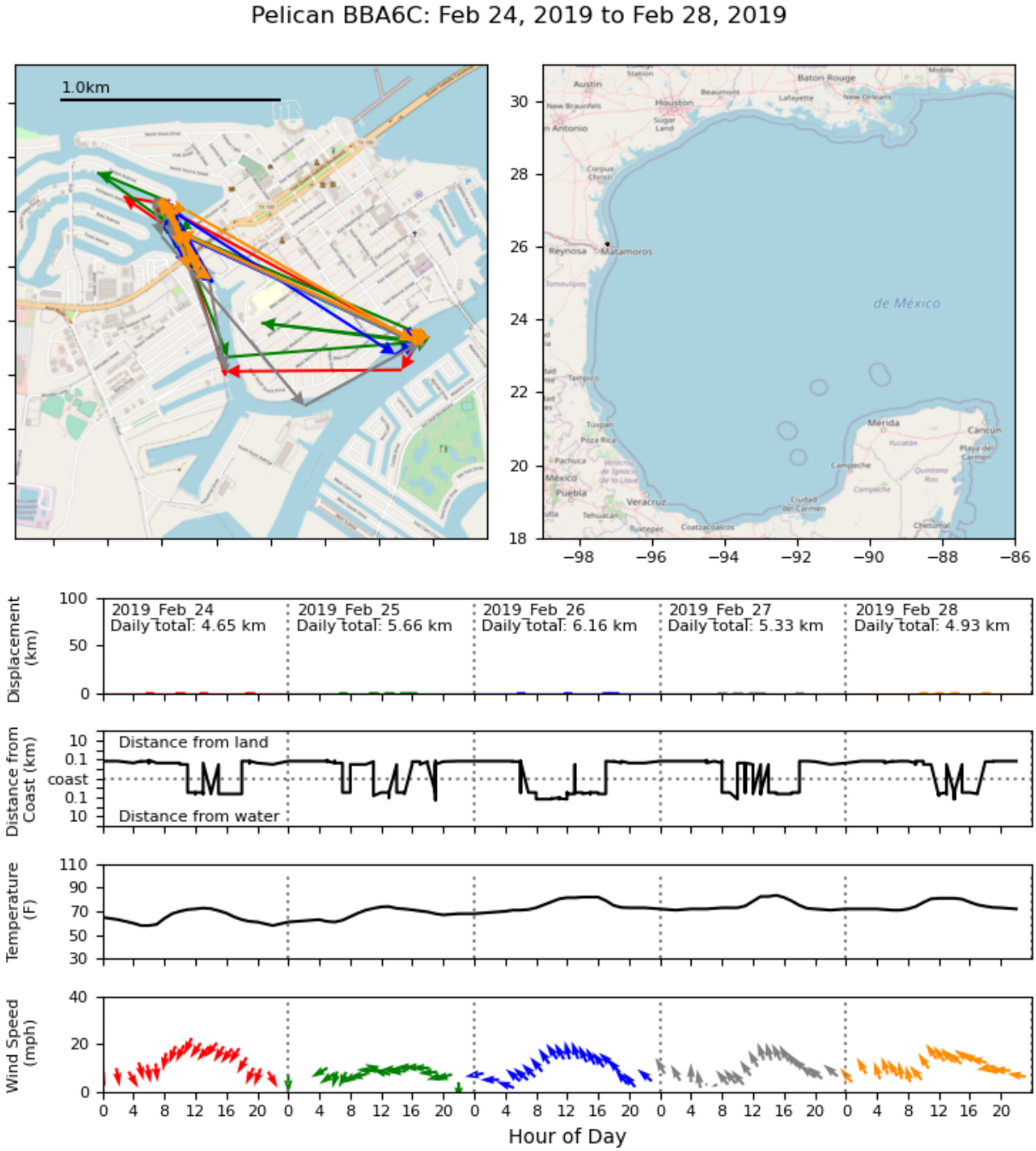

Figure 1290 - Maps and graphs showing movements of BBA6C between 2019-02-24 and 2019-02-27 inclusive.

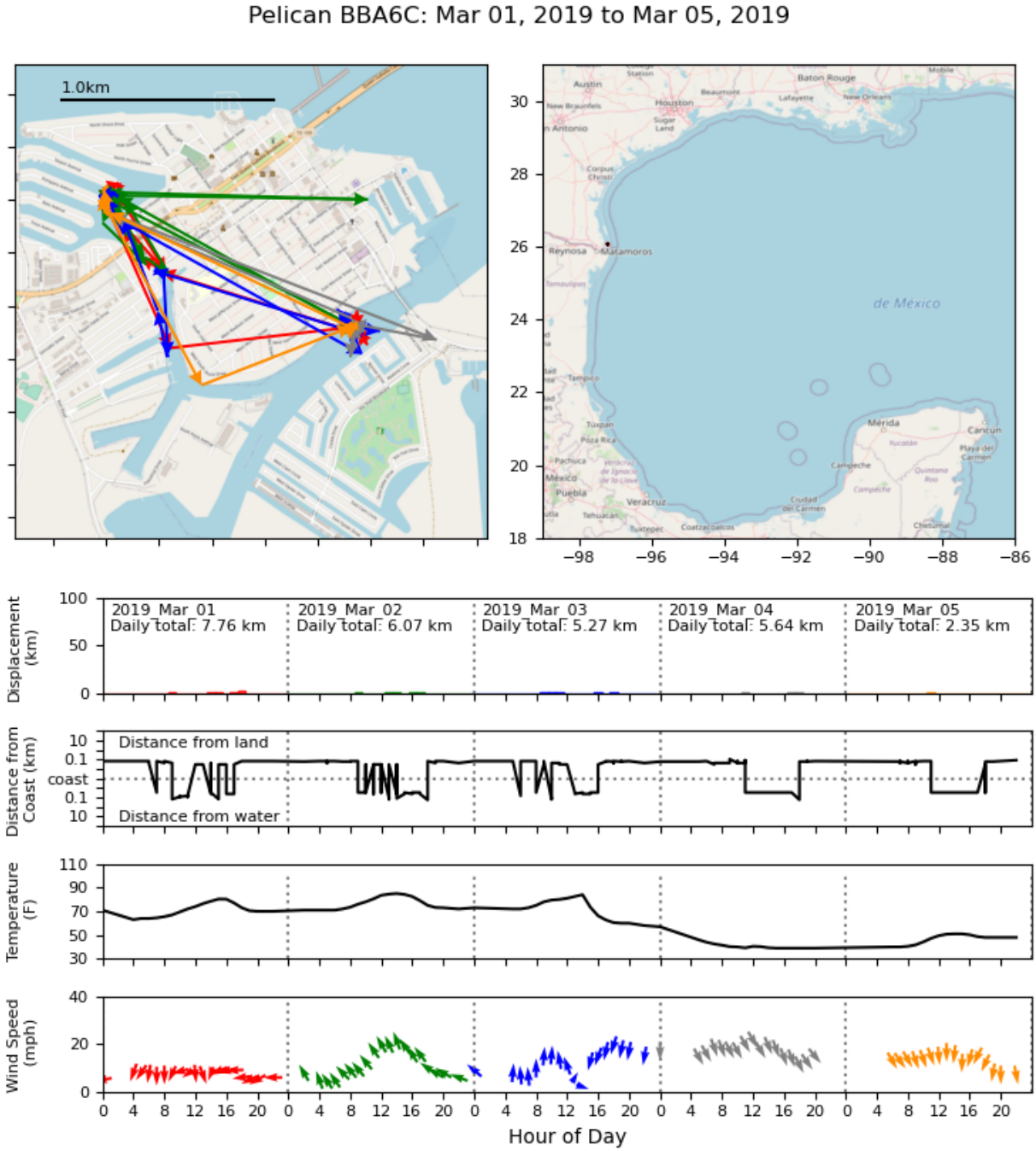

Figure 1291 - Maps and graphs showing movements of BBA6C between 2019-03-01 and 2019-03-04 inclusive.

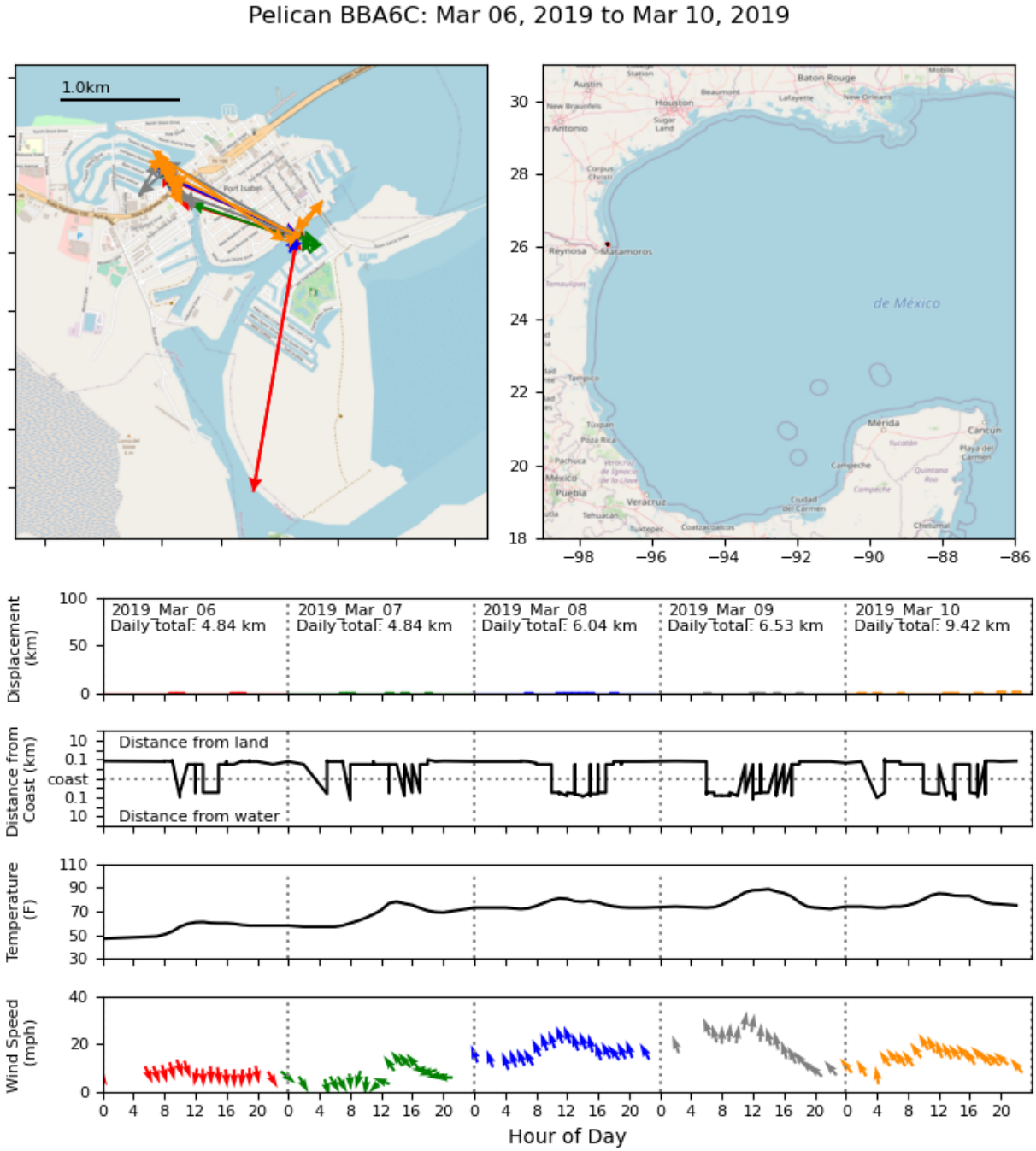

Figure 1292 - Maps and graphs showing movements of BBA6C between 2019-03-06 and 2019-03-09 inclusive.

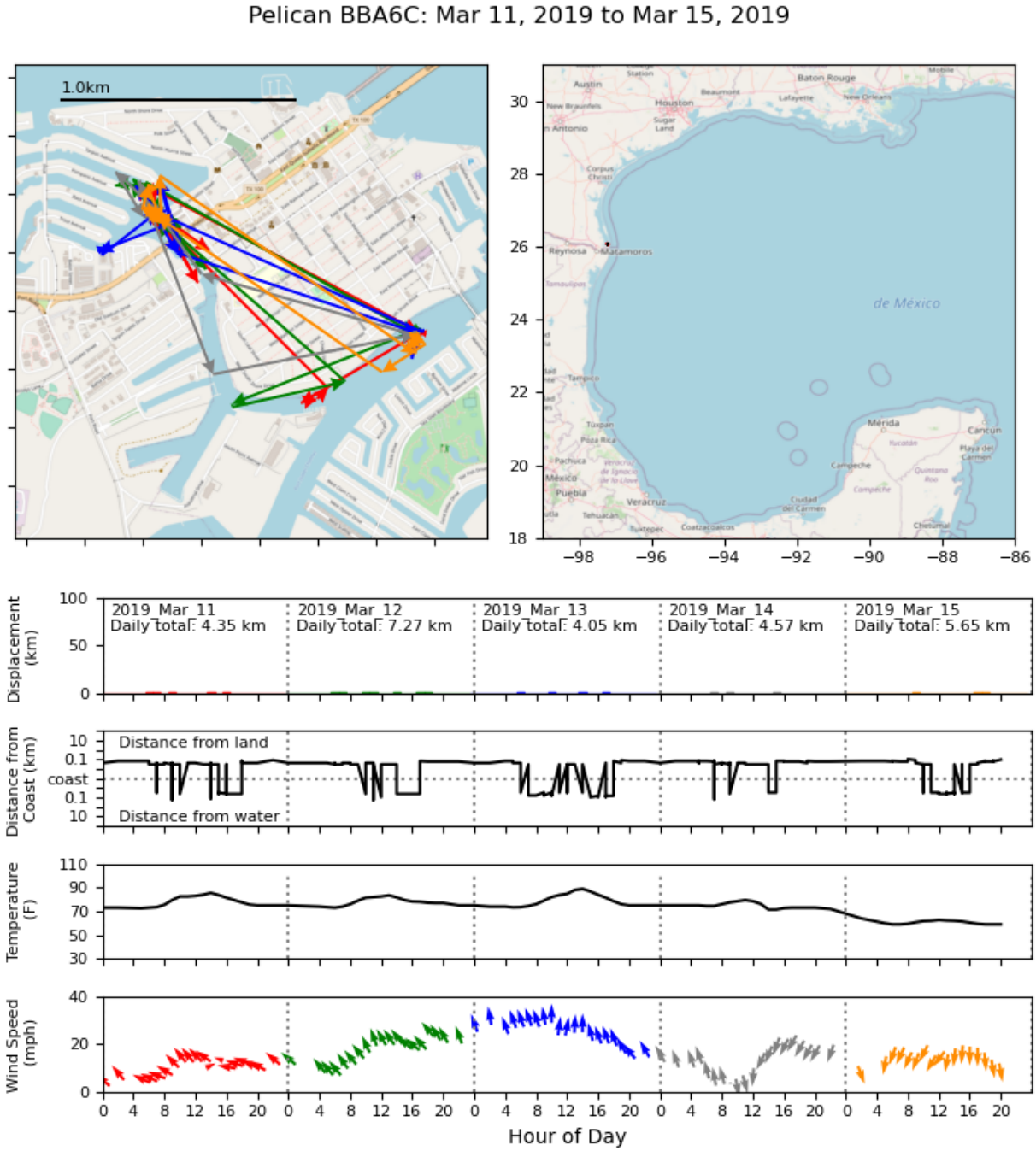

Figure 1293 - Maps and graphs showing movements of BBA6C between 2019-03-11 and 2019-03-14 inclusive.

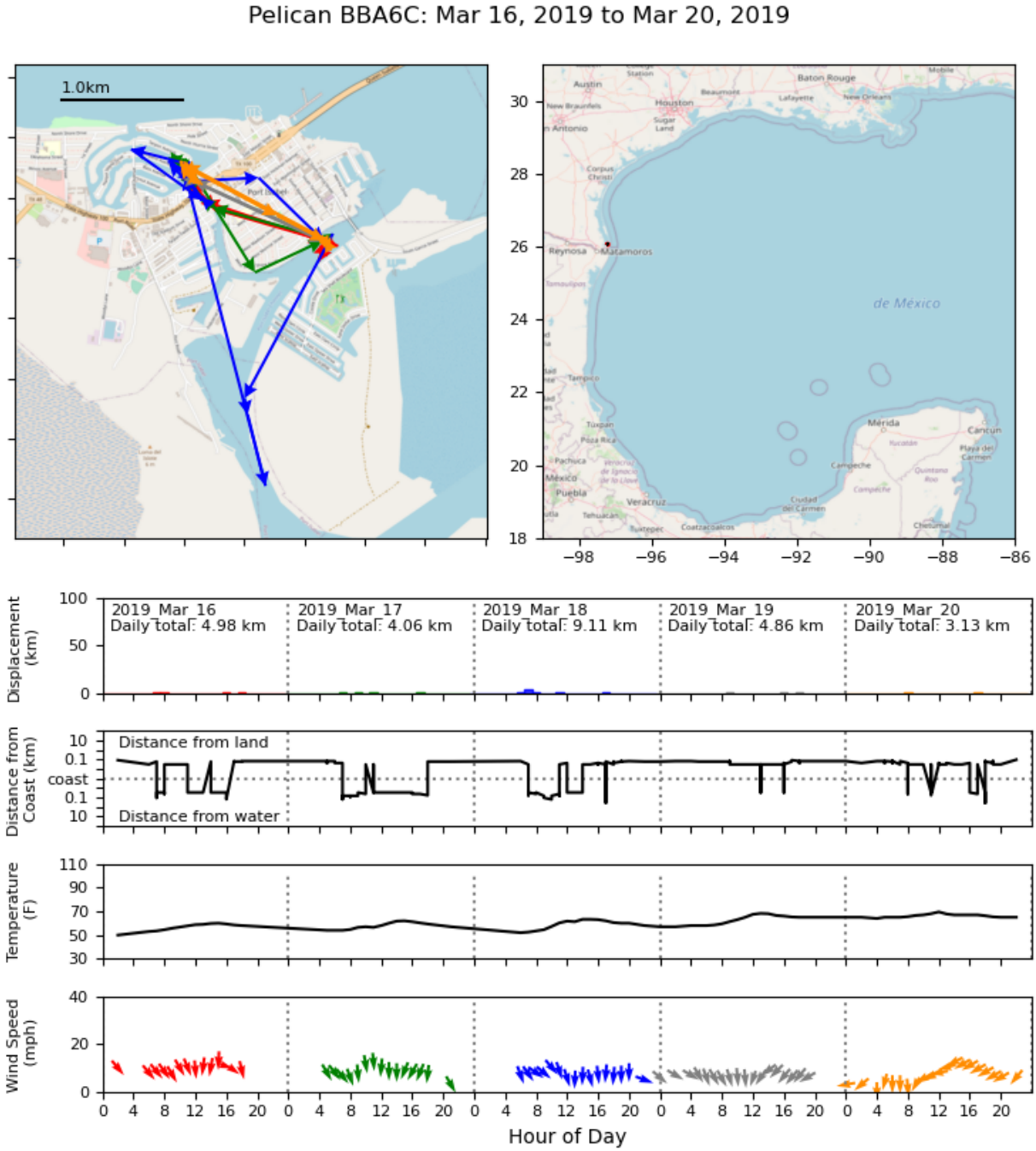

Figure 1294 - Maps and graphs showing movements of BBA6C between 2019-03-16 and 2019-03-19 inclusive.

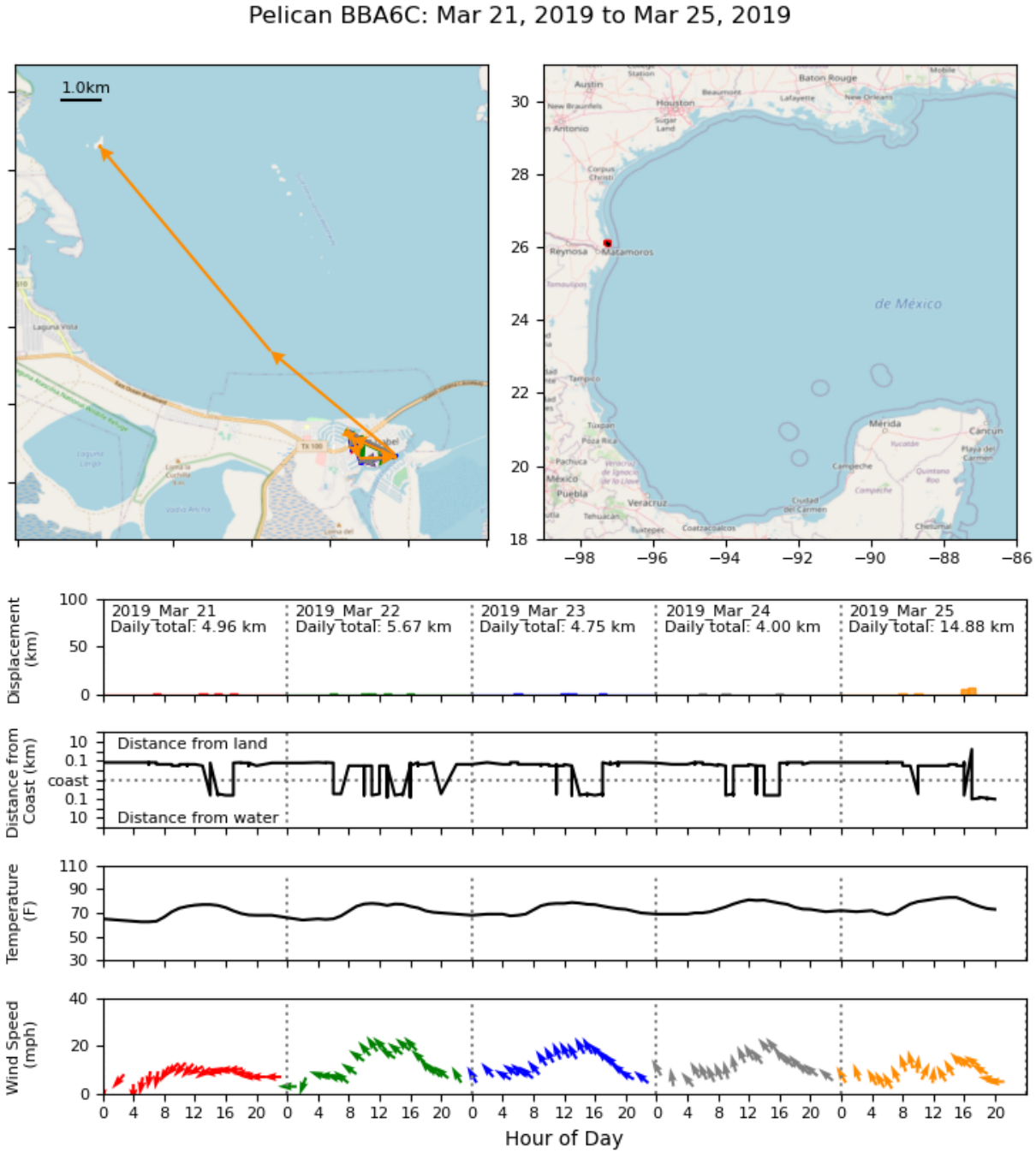

Figure 1295 - Maps and graphs showing movements of BBA6C between 2019-03-21 and 2019-03-24 inclusive.

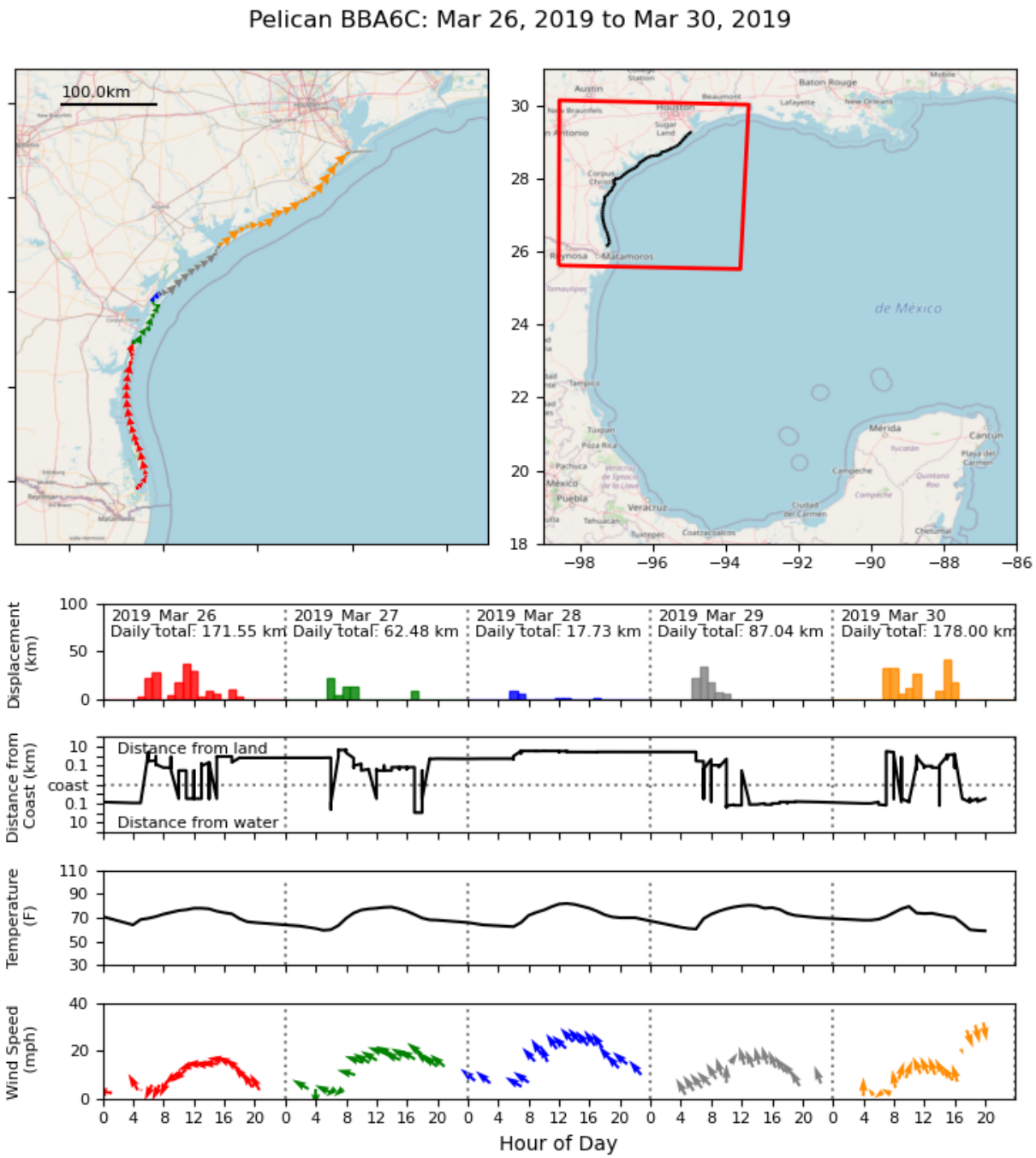

Figure 1296 - Maps and graphs showing movements of BBA6C between 2019-03-26 and 2019-03-29 inclusive.

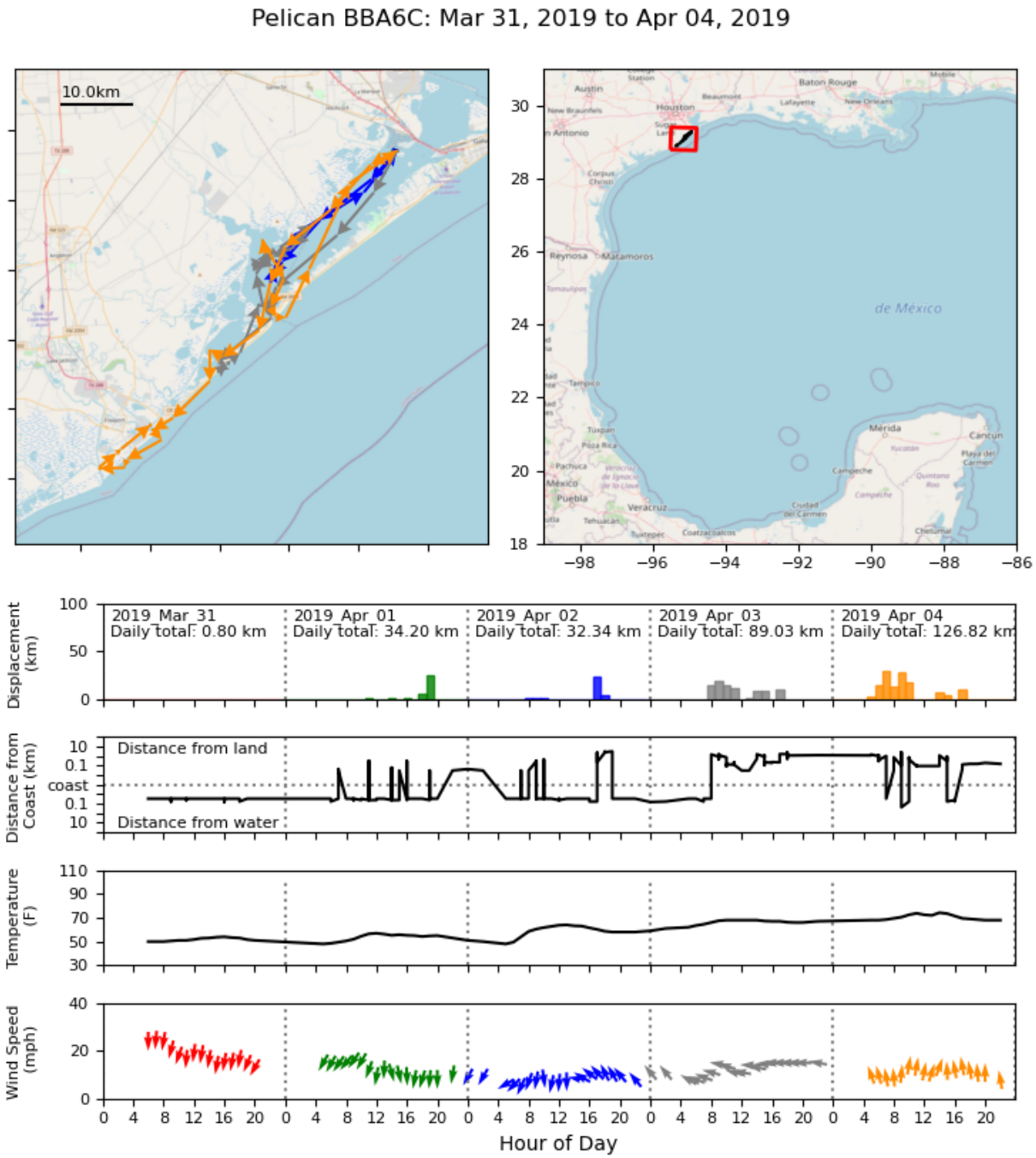

Figure 1297 - Maps and graphs showing movements of BBA6C between 2019-03-31 and 2019-04-03 inclusive.

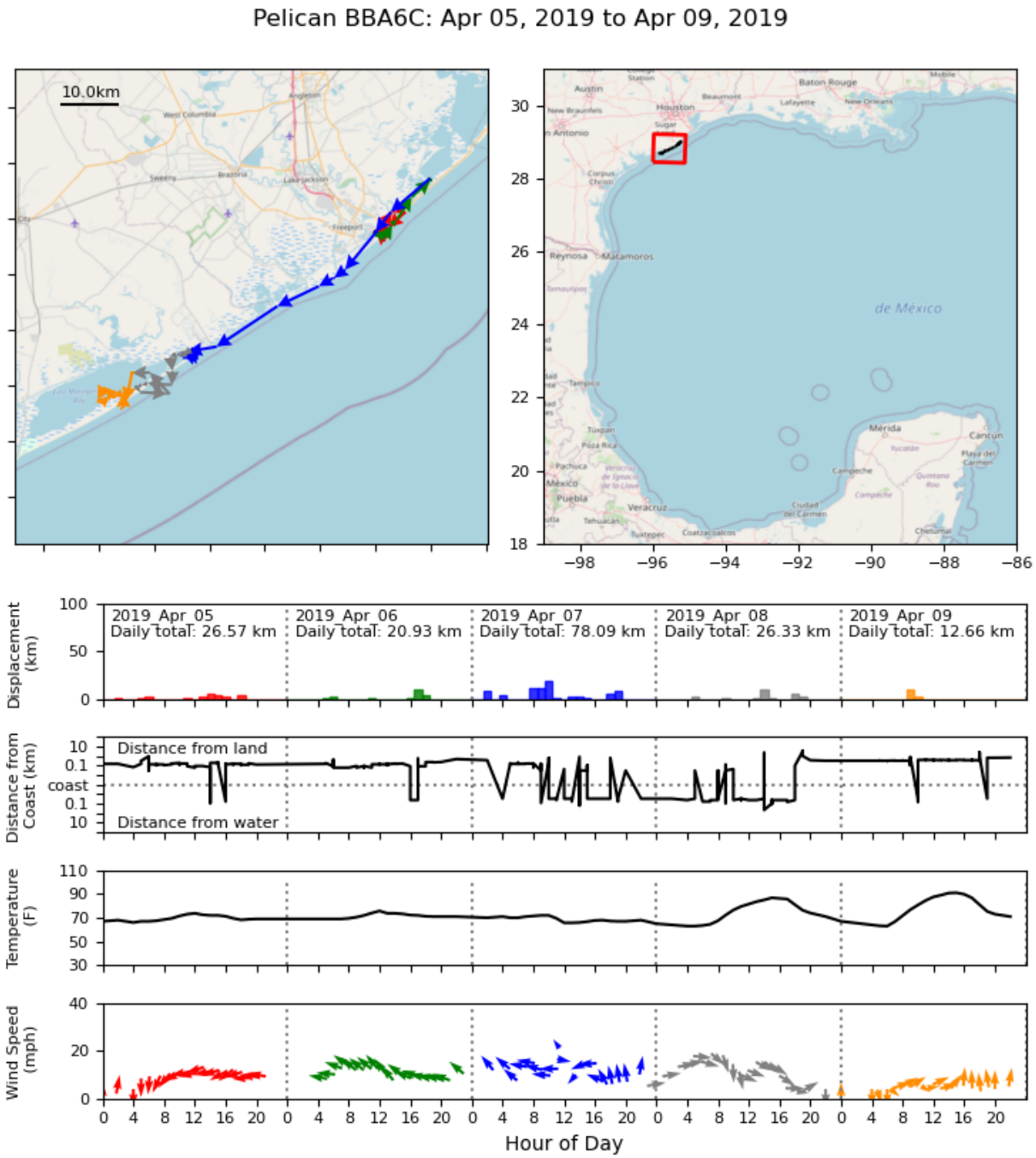

Figure 1298 - Maps and graphs showing movements of BBA6C between 2019-04-05 and 2019-04-08 inclusive.

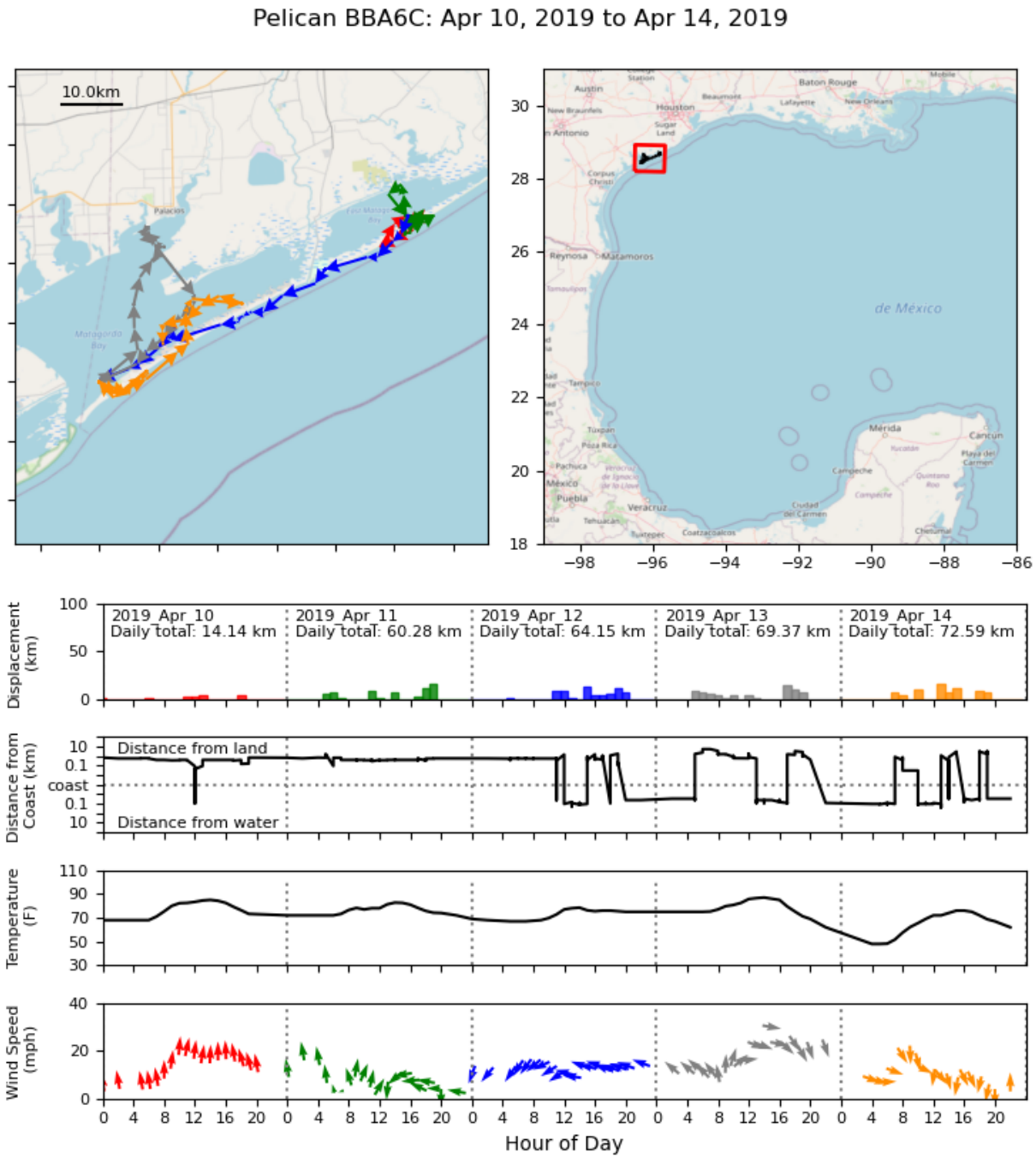

Figure 1299 - Maps and graphs showing movements of BBA6C between 2019-04-10 and 2019-04-13 inclusive.

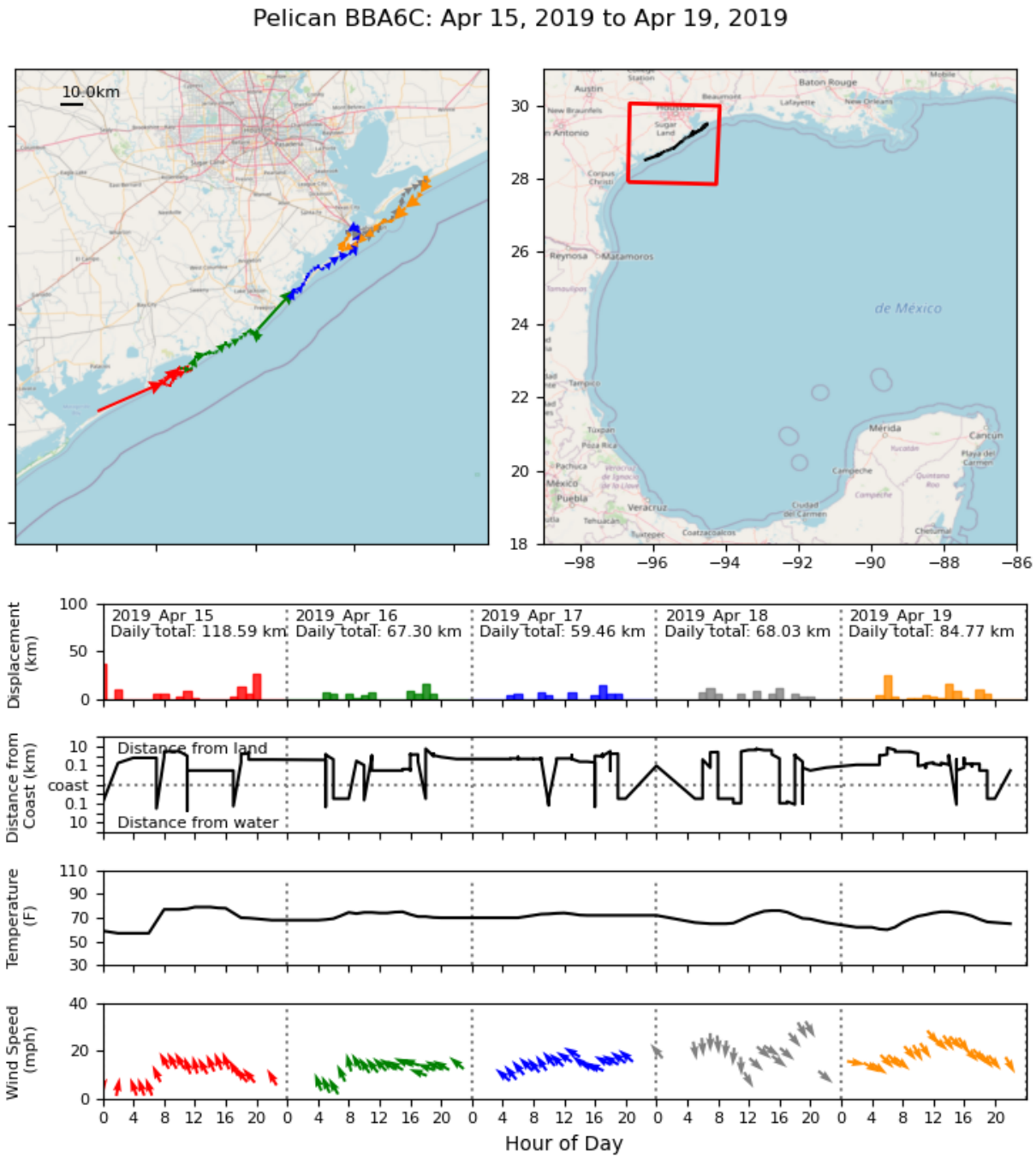

Figure 1300 - Maps and graphs showing movements of BBA6C between 2019-04-15 and 2019-04-18 inclusive.

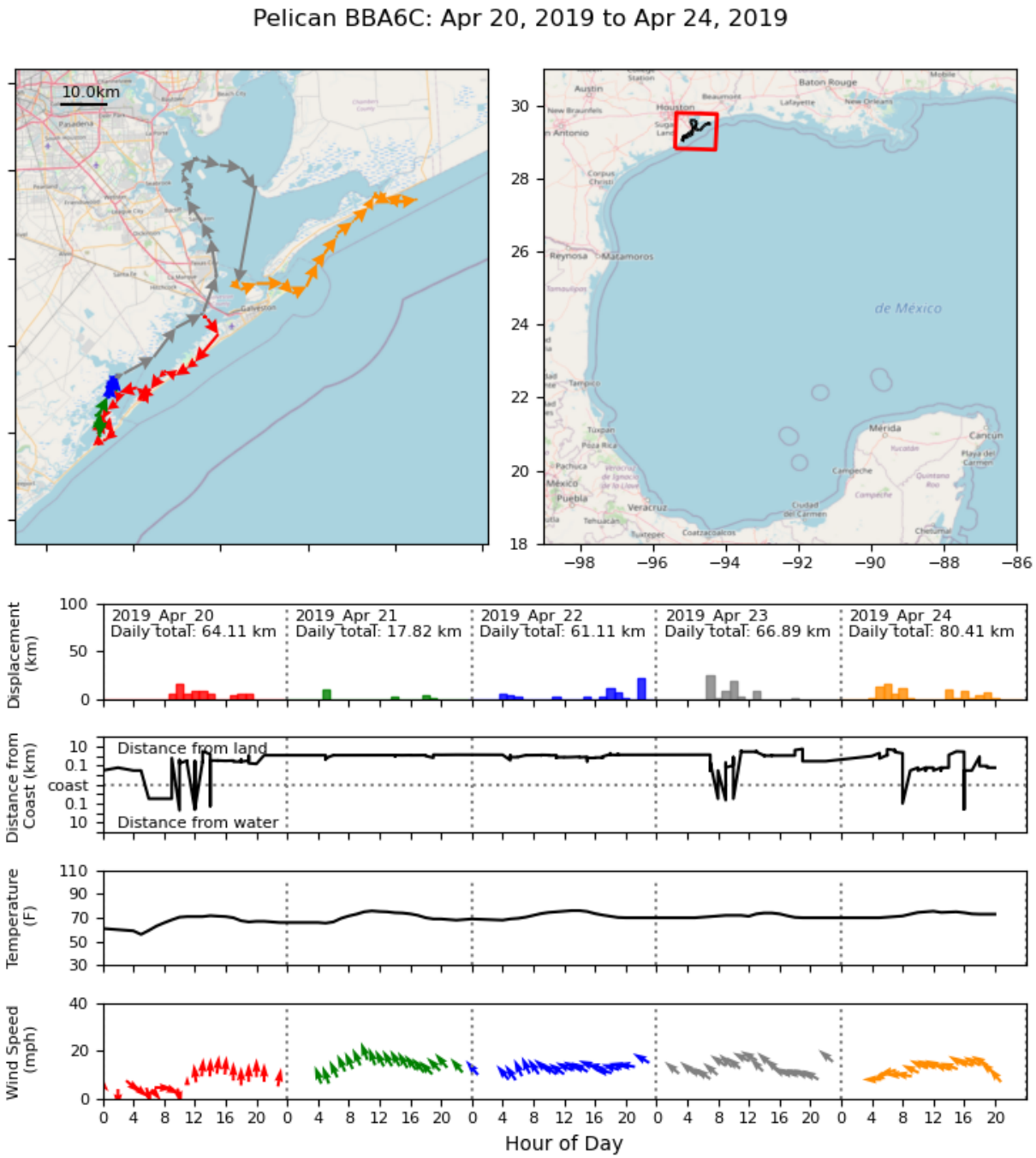

Figure 1301 - Maps and graphs showing movements of BBA6C between 2019-04-20 and 2019-04-23 inclusive.

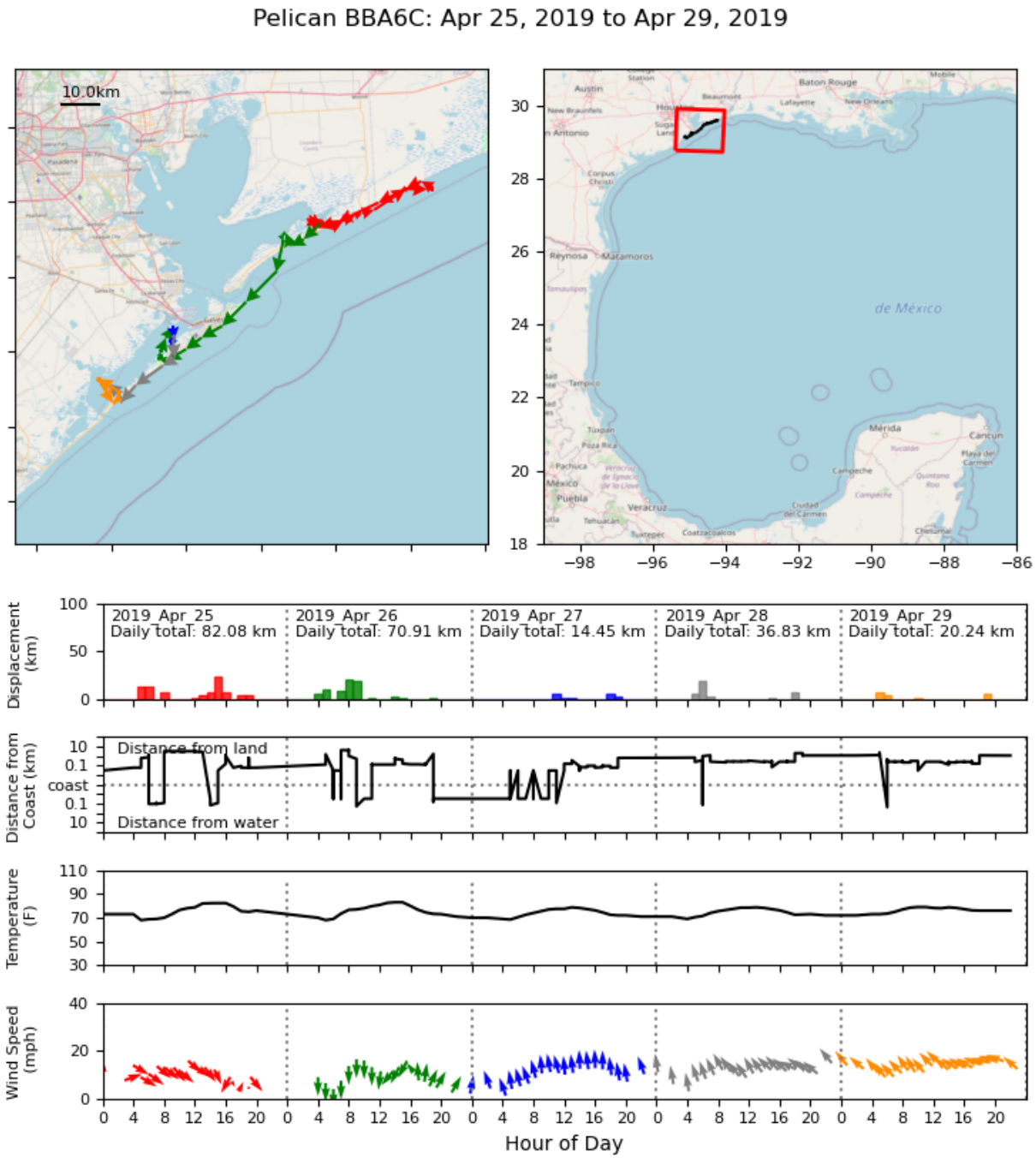

Figure 1302 - Maps and graphs showing movements of BBA6C between 2019-04-25 and 2019-04-28 inclusive.

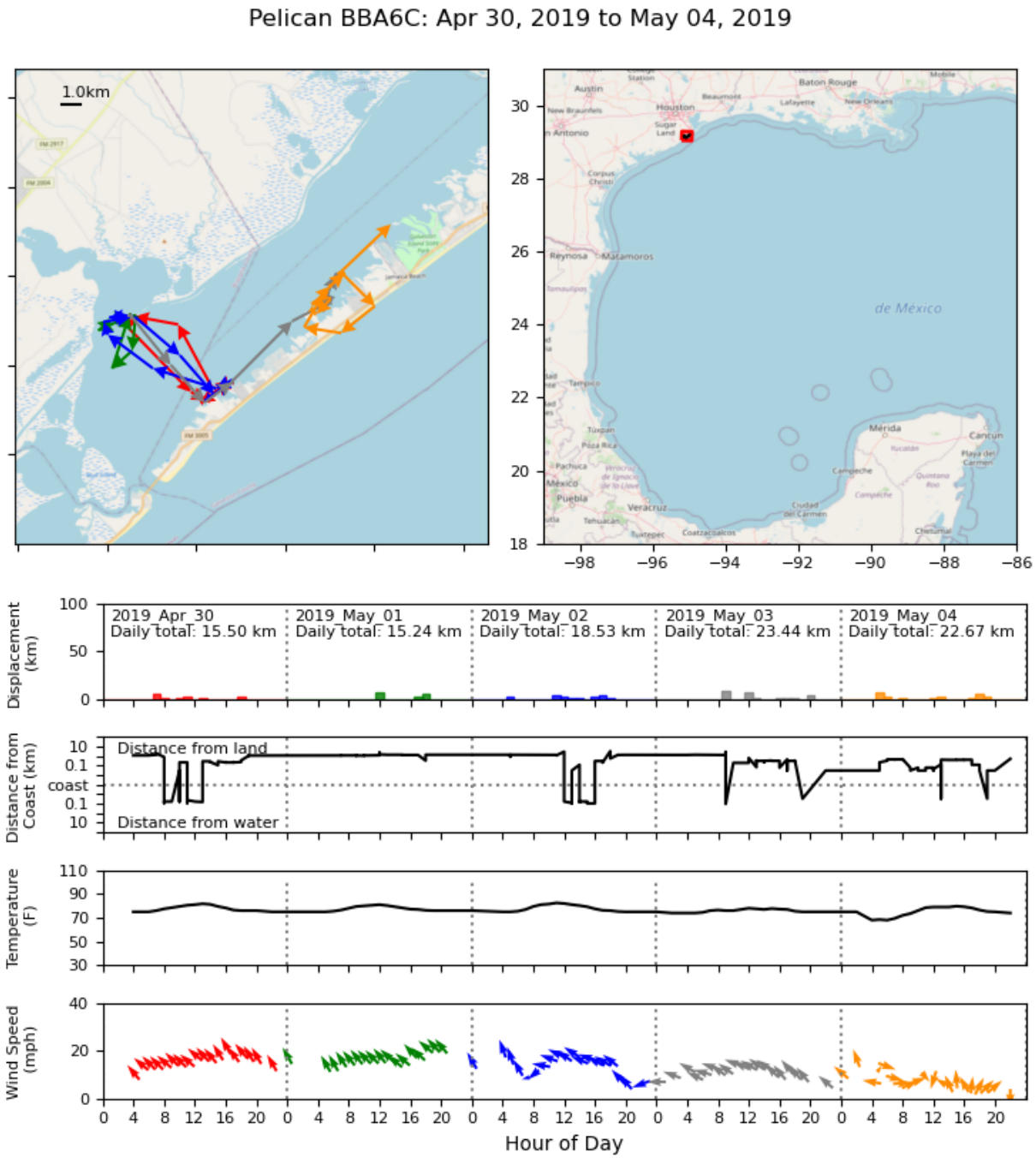

Figure 1303 - Maps and graphs showing movements of BBA6C between 2019-04-30 and 2019-05-03 inclusive.

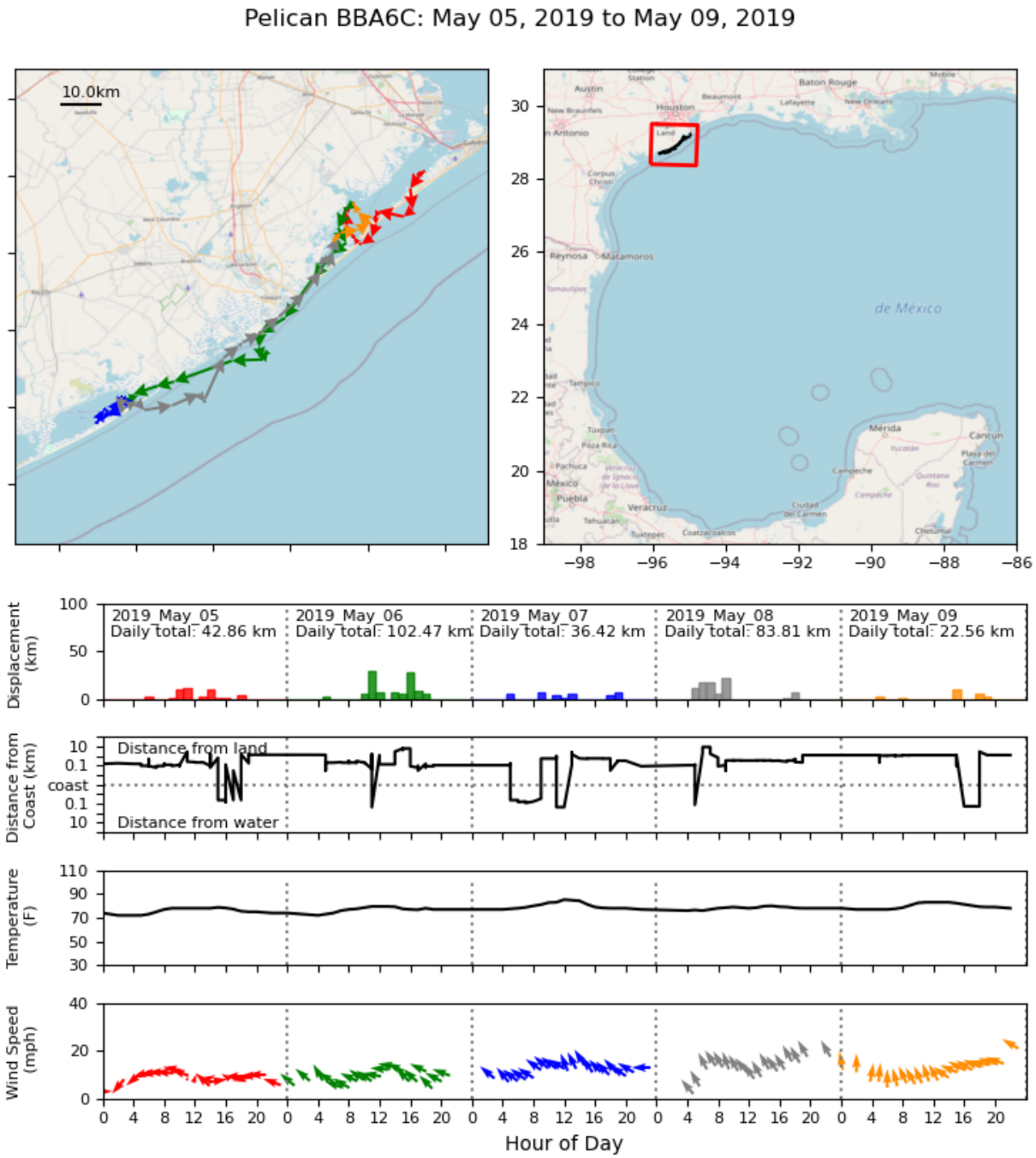

Figure 1304 - Maps and graphs showing movements of BBA6C between 2019-05-05 and 2019-05-08 inclusive.

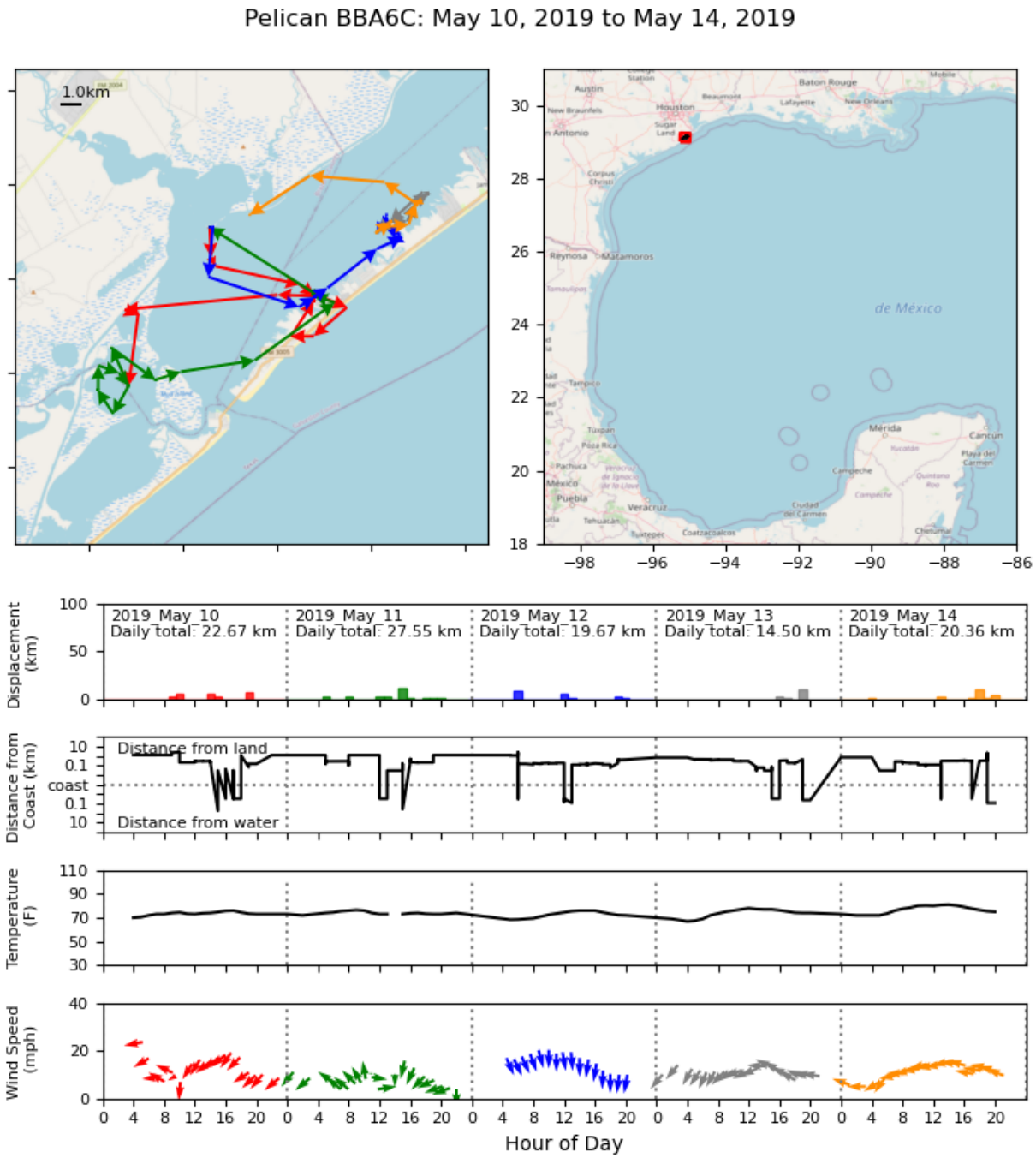

Figure 1305 - Maps and graphs showing movements of BBA6C between 2019-05-10 and 2019-05-13 inclusive.

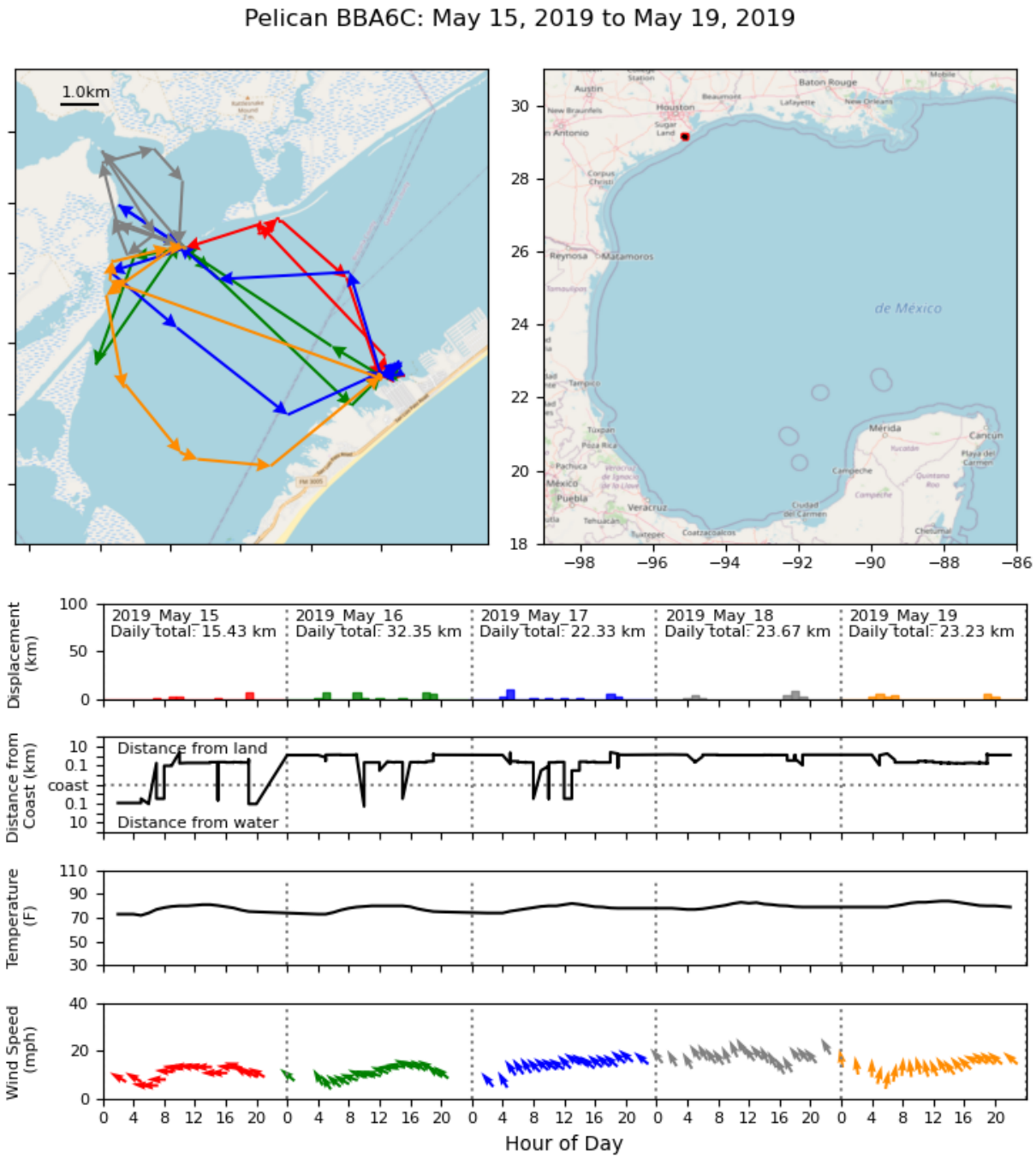

Figure 1306 - Maps and graphs showing movements of BBA6C between 2019-05-15 and 2019-05-18 inclusive.

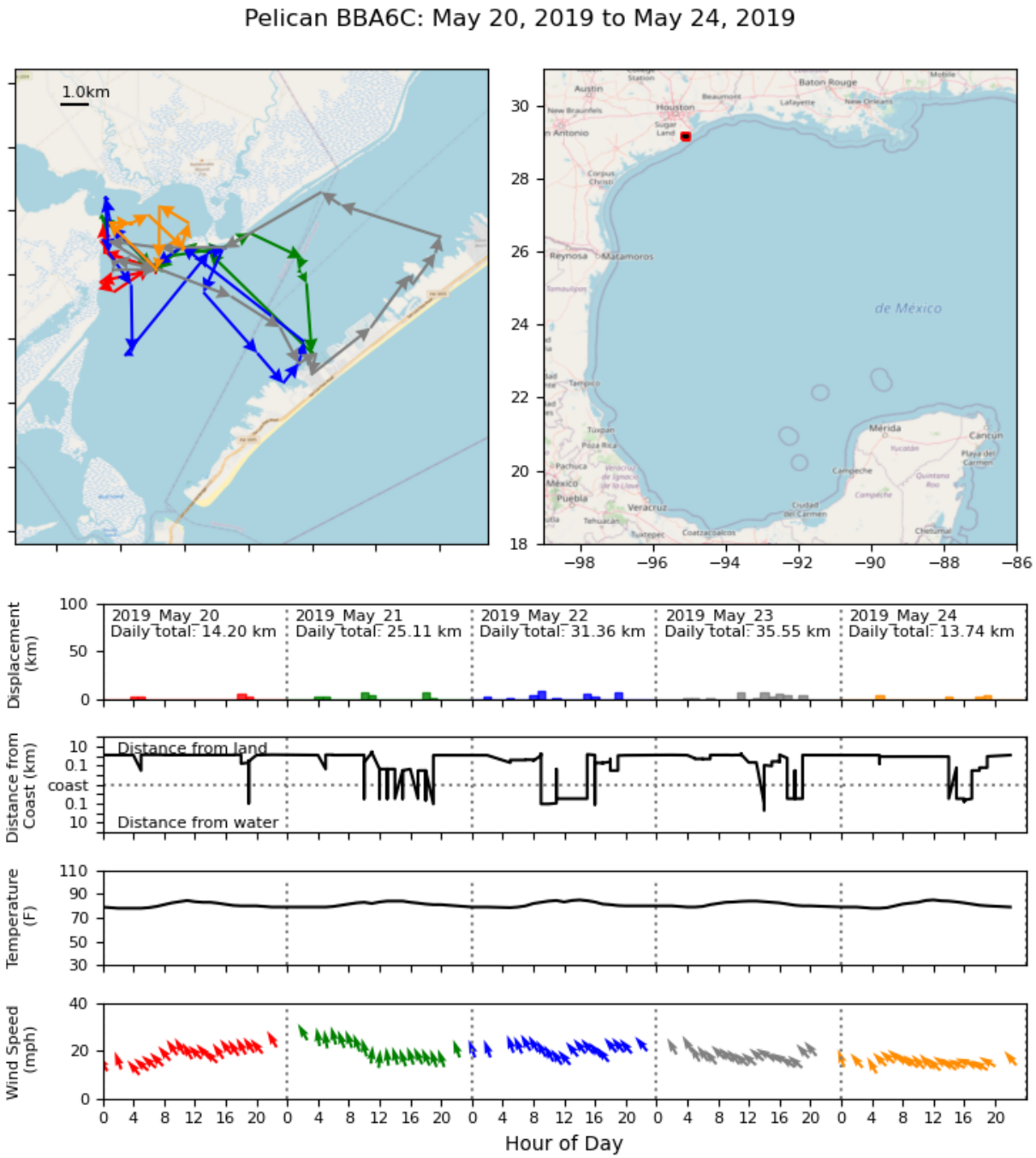

Figure 1307 - Maps and graphs showing movements of BBA6C between 2019-05-20 and 2019-05-23 inclusive.

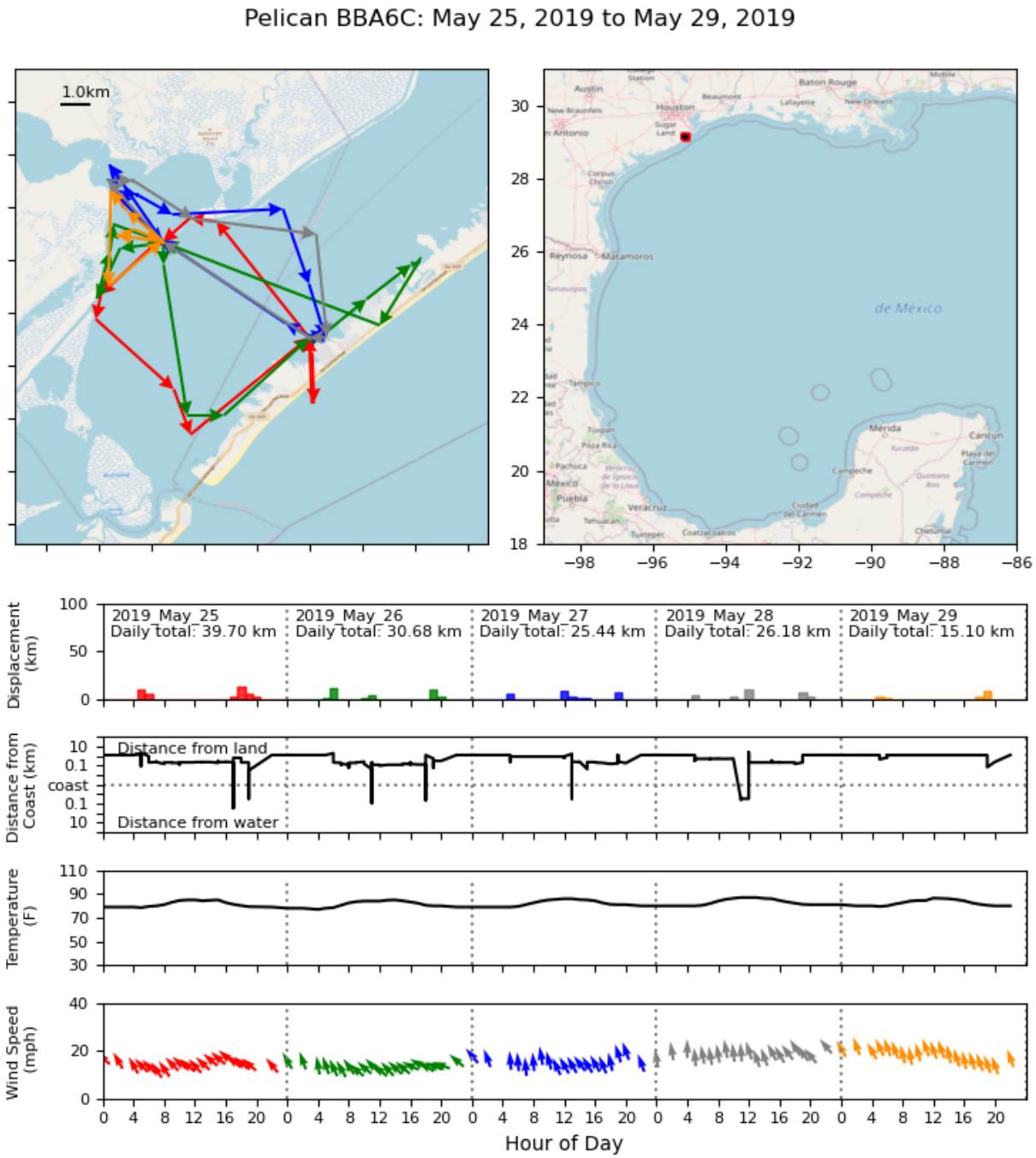

Figure 1308 - Maps and graphs showing movements of BBA6C between 2019-05-25 and 2019-05-28 inclusive.

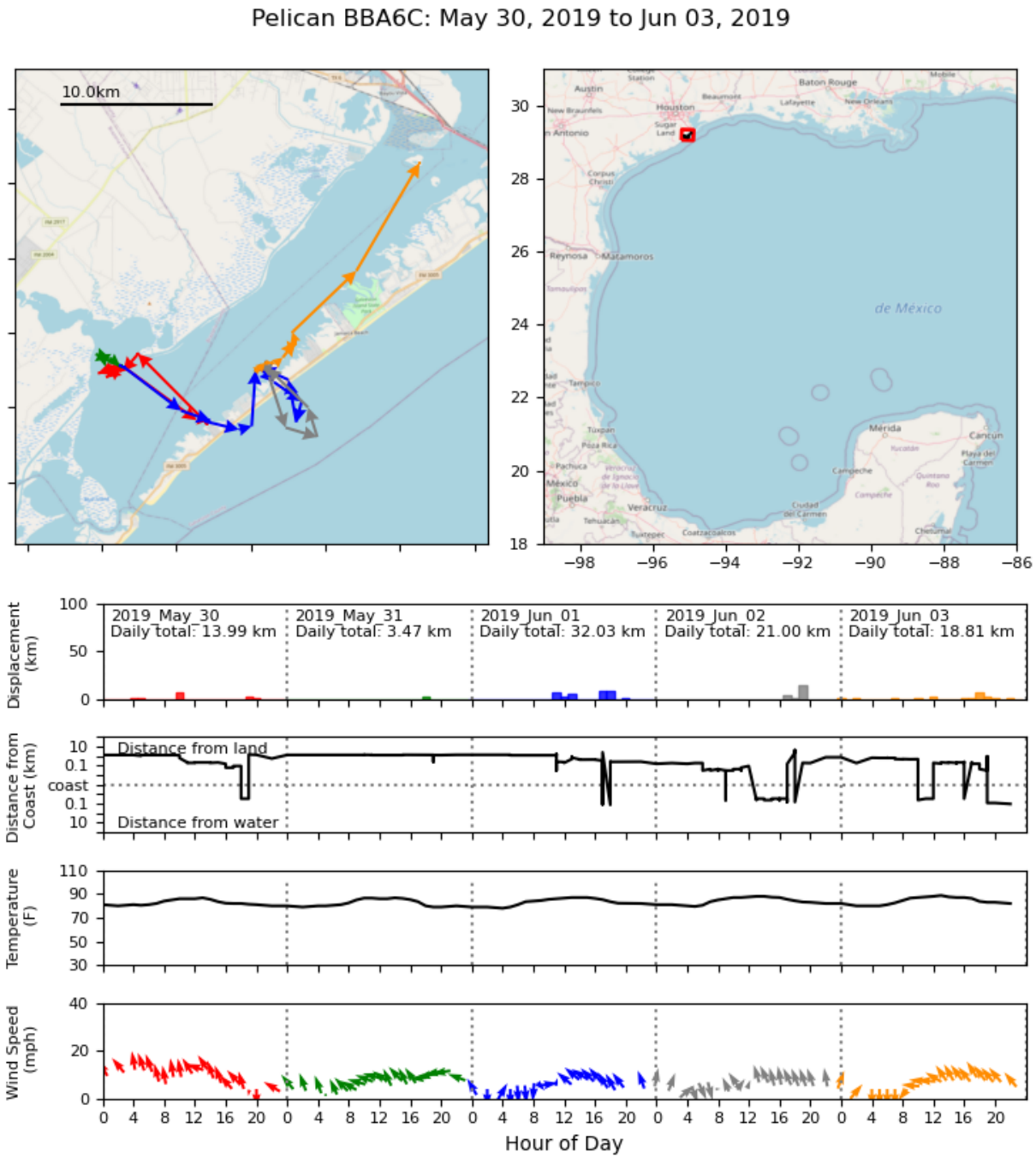

Figure 1309 - Maps and graphs showing movements of BBA6C between 2019-05-30 and 2019-06-02 inclusive.

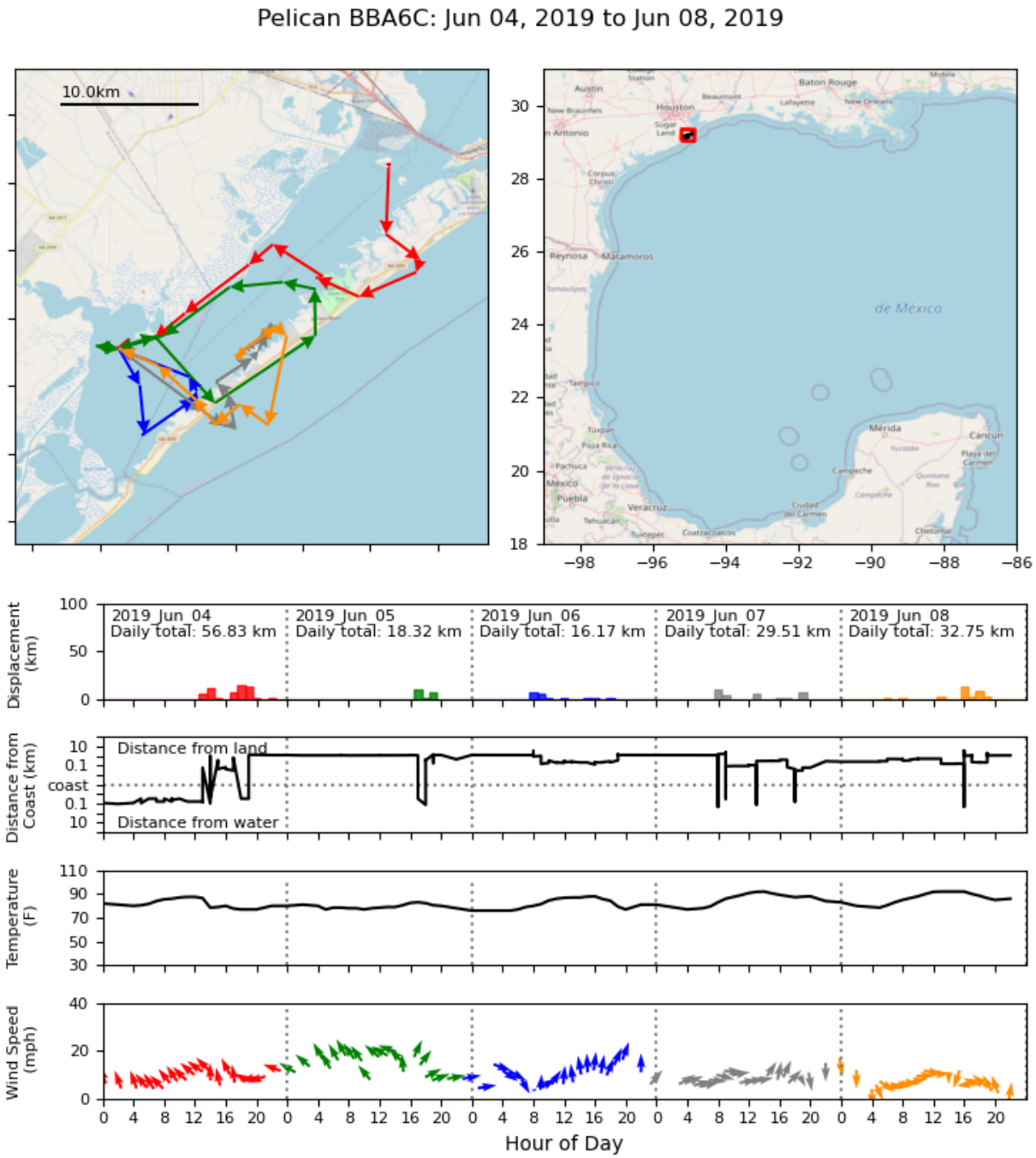

Figure 1310 - Maps and graphs showing movements of BBA6C between 2019-06-04 and 2019-06-07 inclusive.

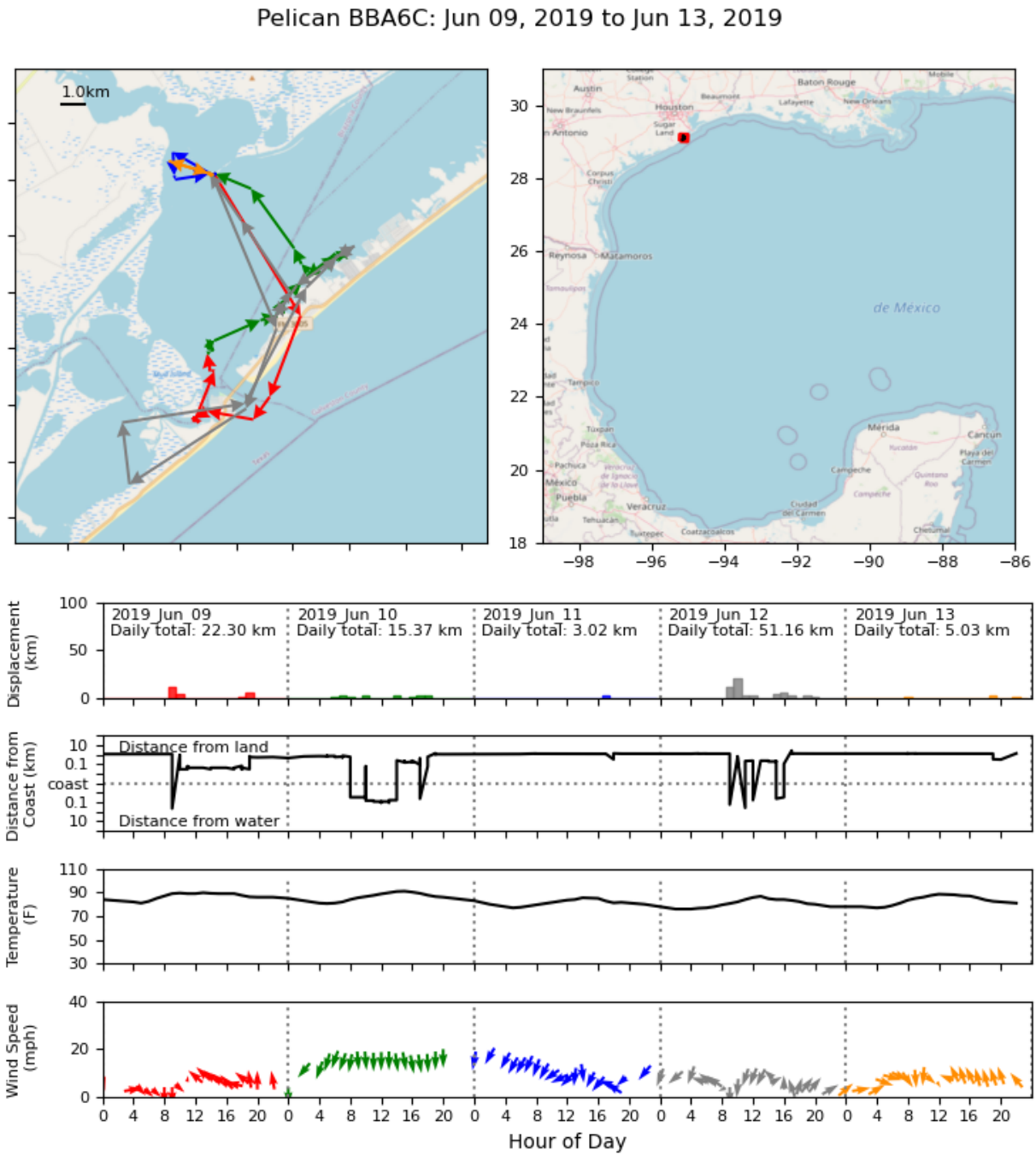

Figure 1311 - Maps and graphs showing movements of BBA6C between 2019-06-09 and 2019-06-12 inclusive.

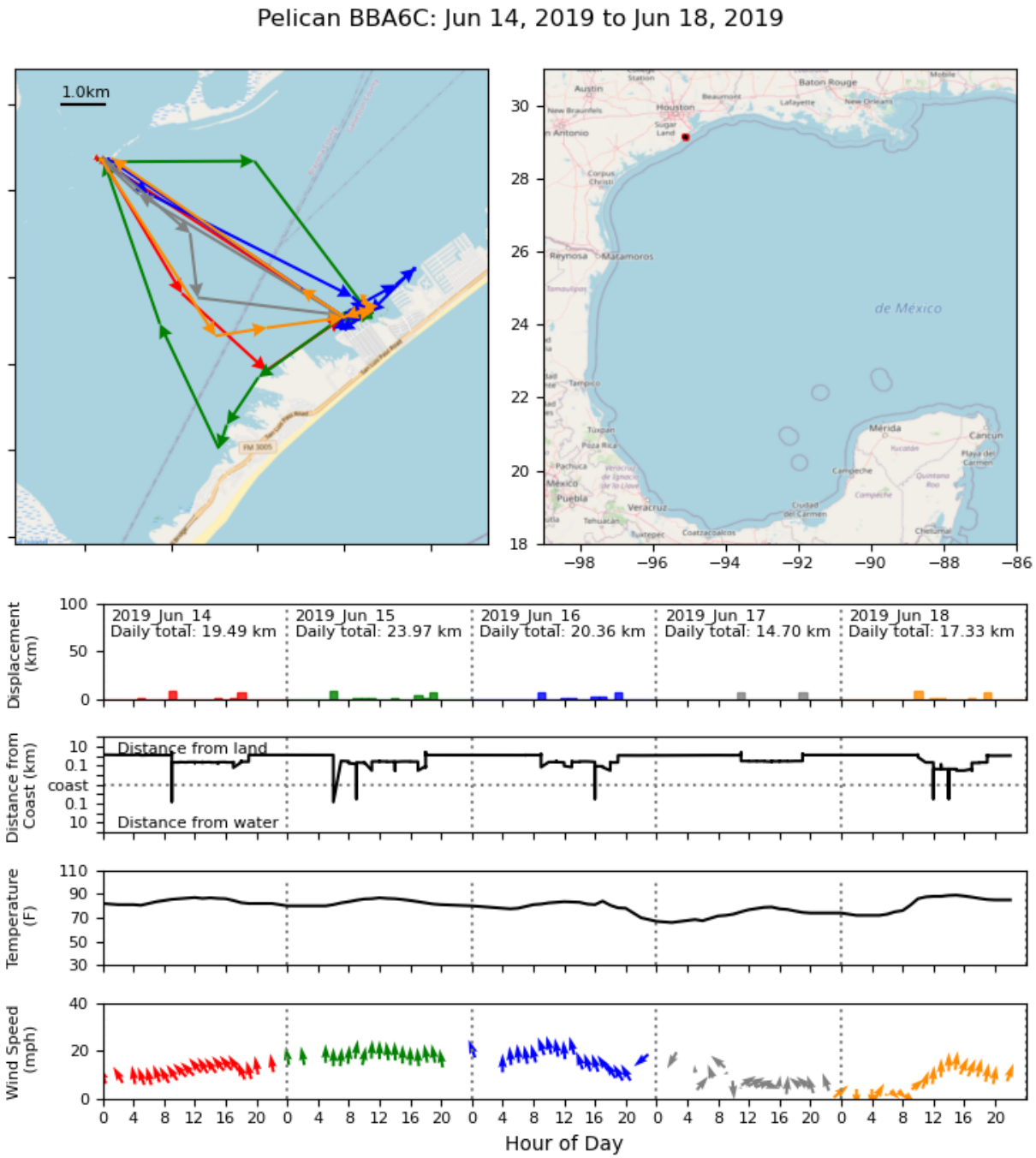

Figure 1312 - Maps and graphs showing movements of BBA6C between 2019-06-14 and 2019-06-17 inclusive.

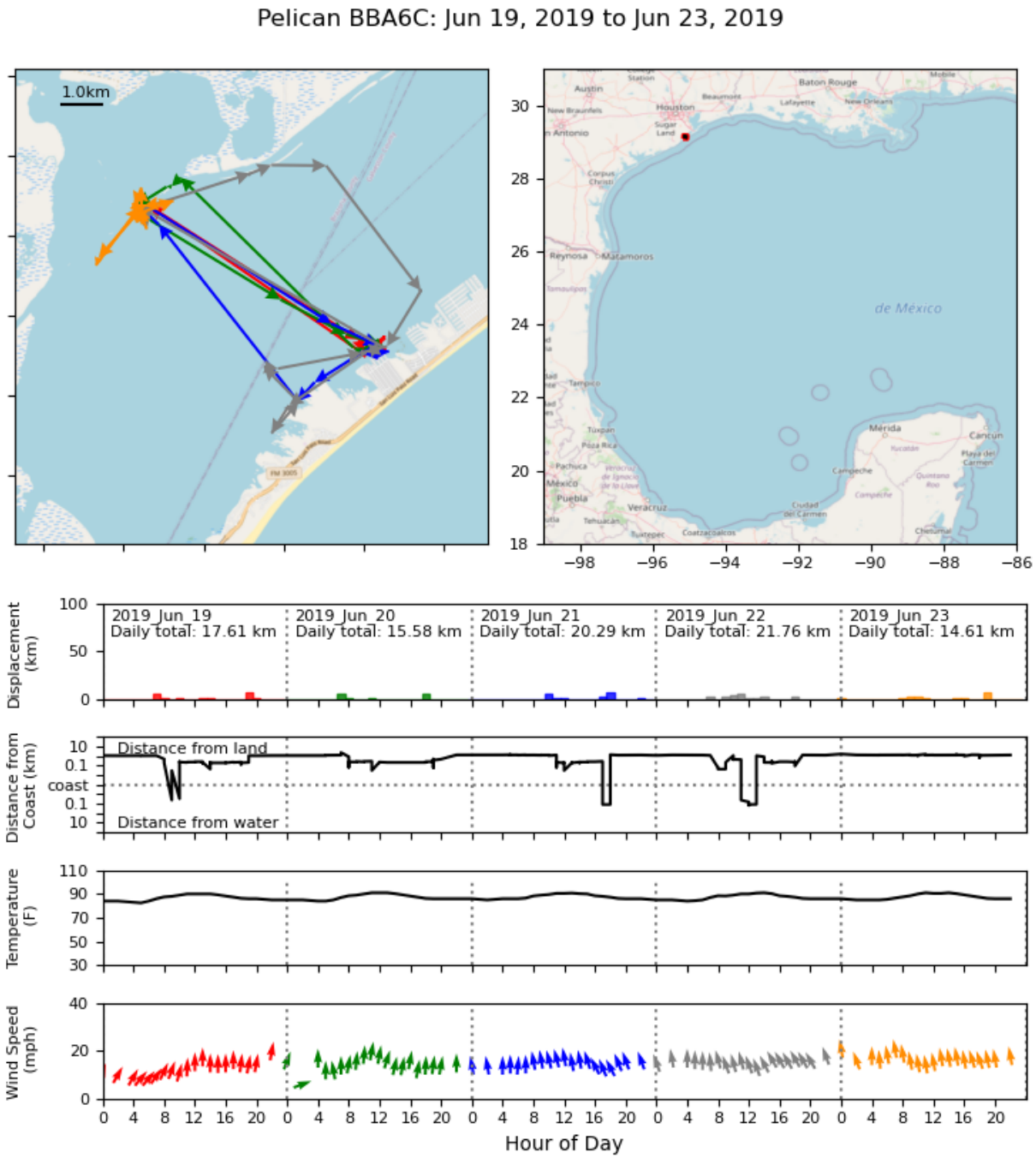

Figure 1313 - Maps and graphs showing movements of BBA6C between 2019-06-19 and 2019-06-22 inclusive.

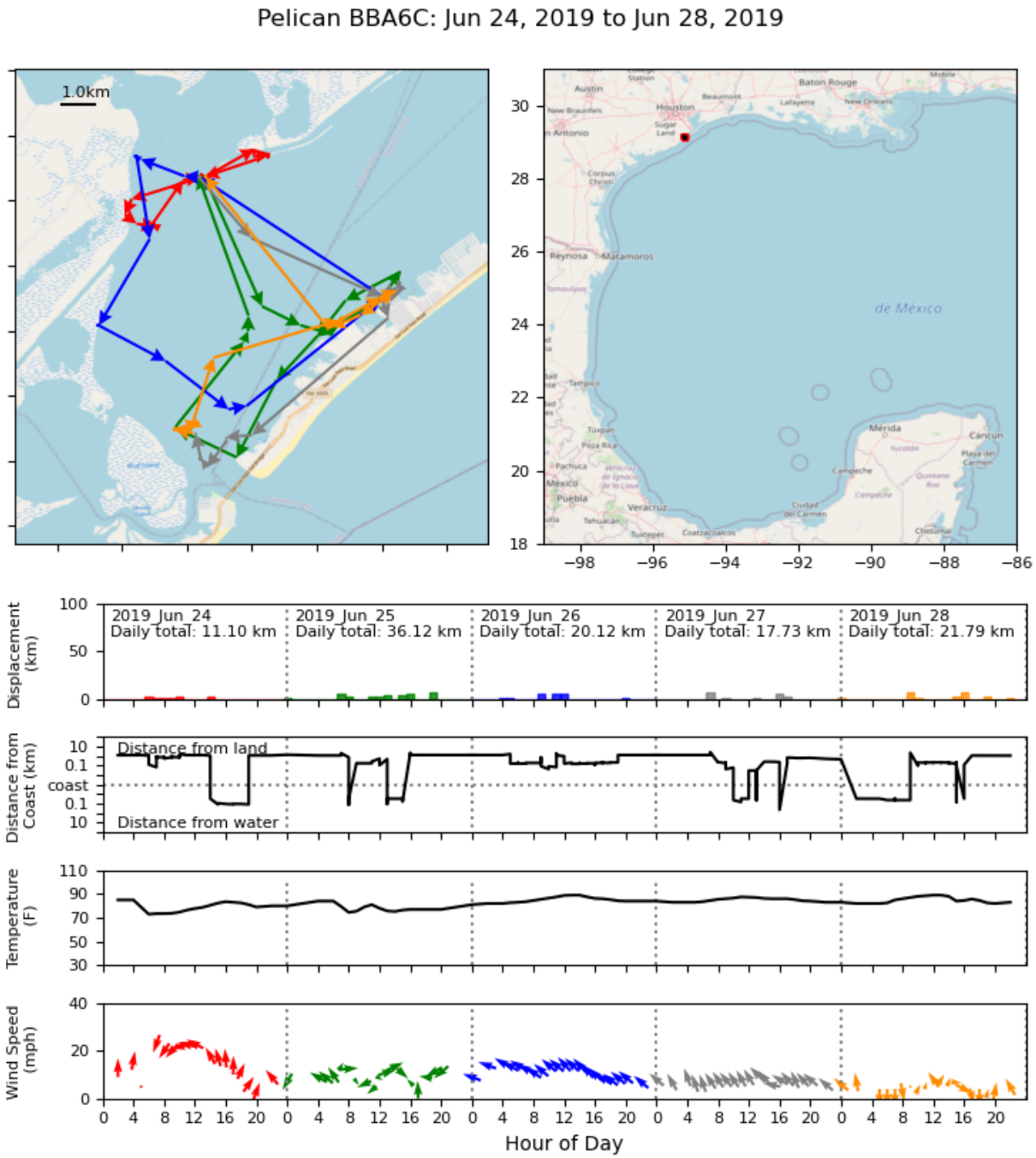

Figure 1314 - Maps and graphs showing movements of BBA6C between 2019-06-24 and 2019-06-27 inclusive.

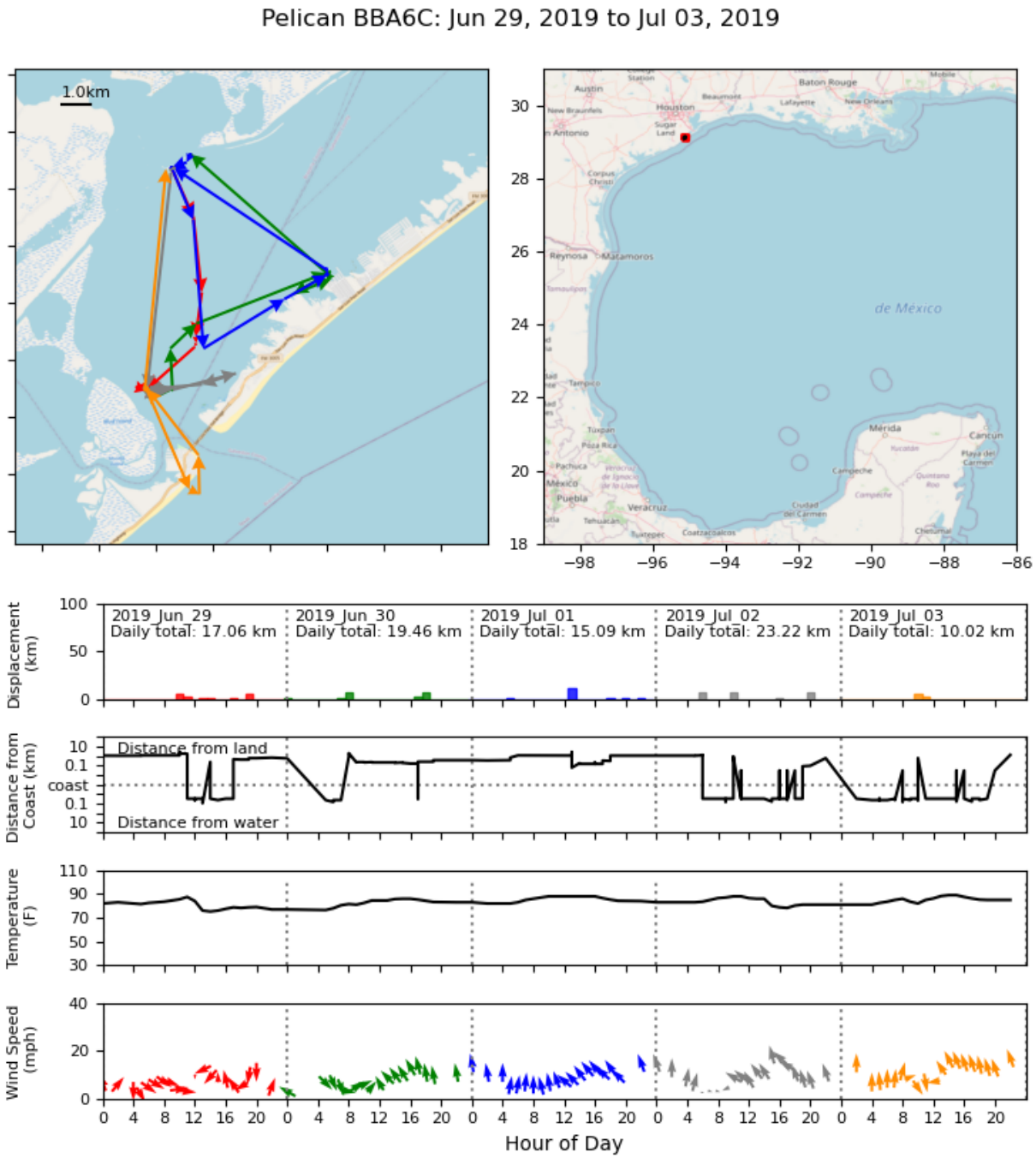

Figure 1315 - Maps and graphs showing movements of BBA6C between 2019-06-29 and 2019-07-02 inclusive.

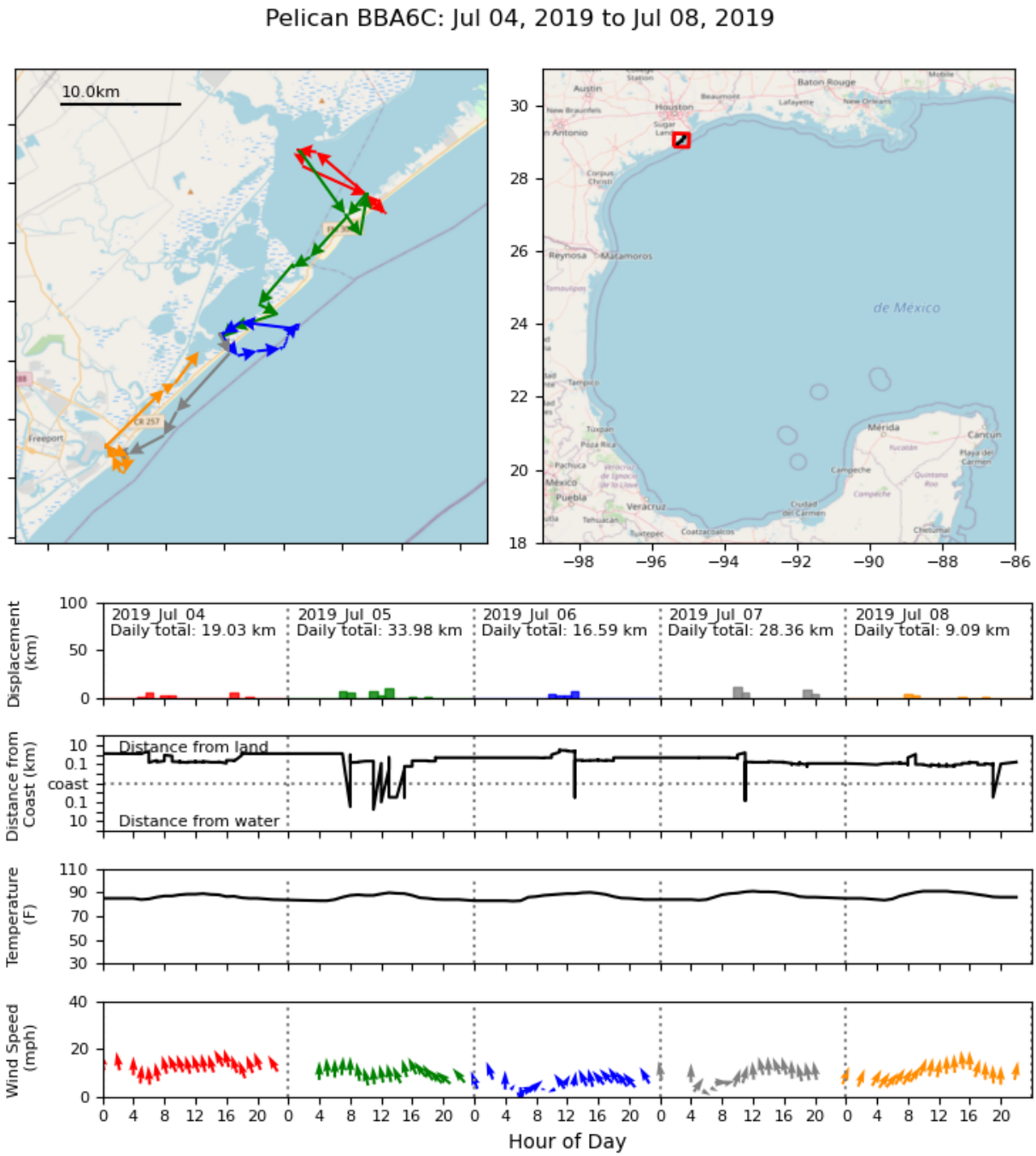

Figure 1316 - Maps and graphs showing movements of BBA6C between 2019-07-04 and 2019-07-07 inclusive.

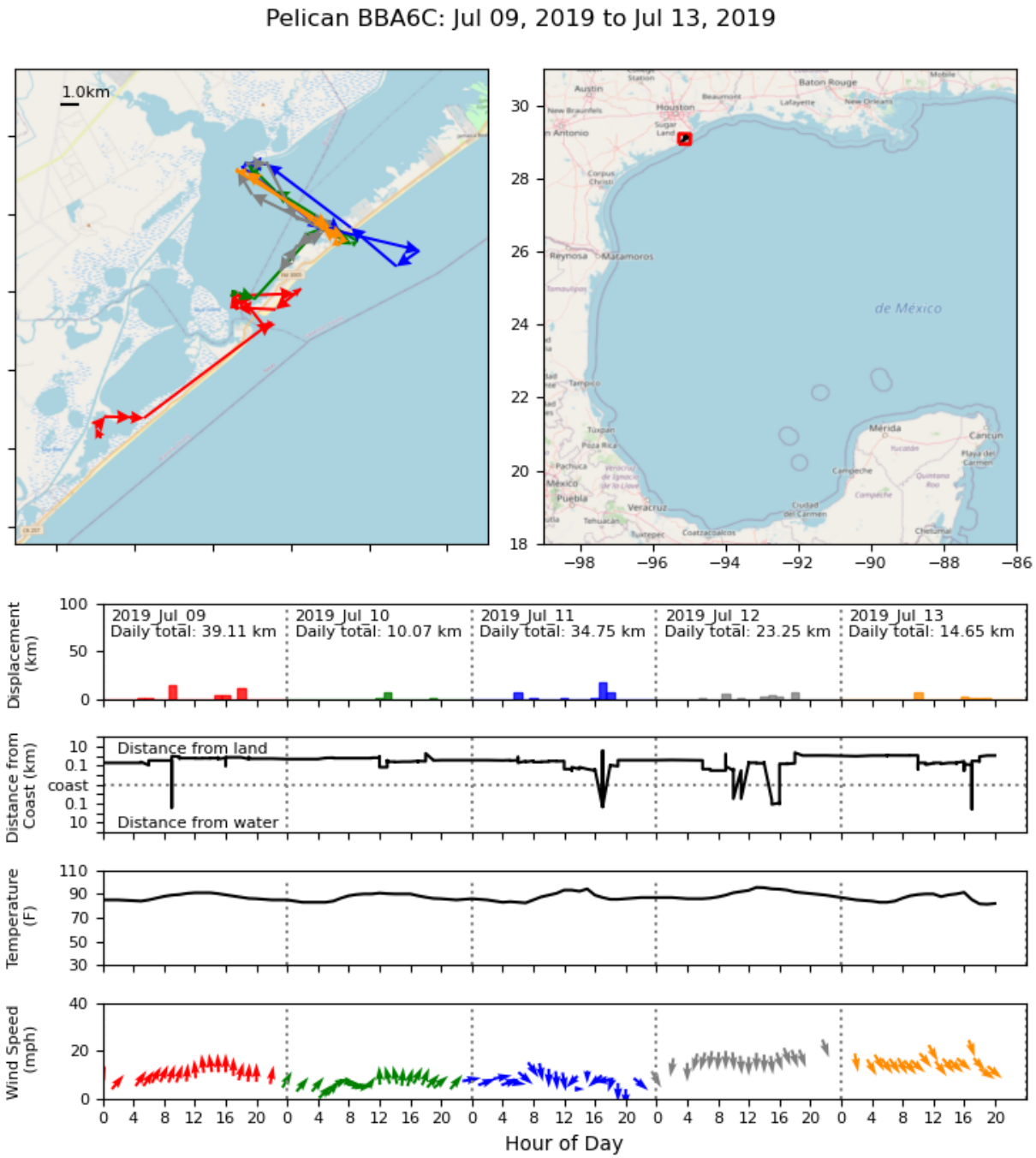

Figure 1317 - Maps and graphs showing movements of BBA6C between 2019-07-09 and 2019-07-12 inclusive.

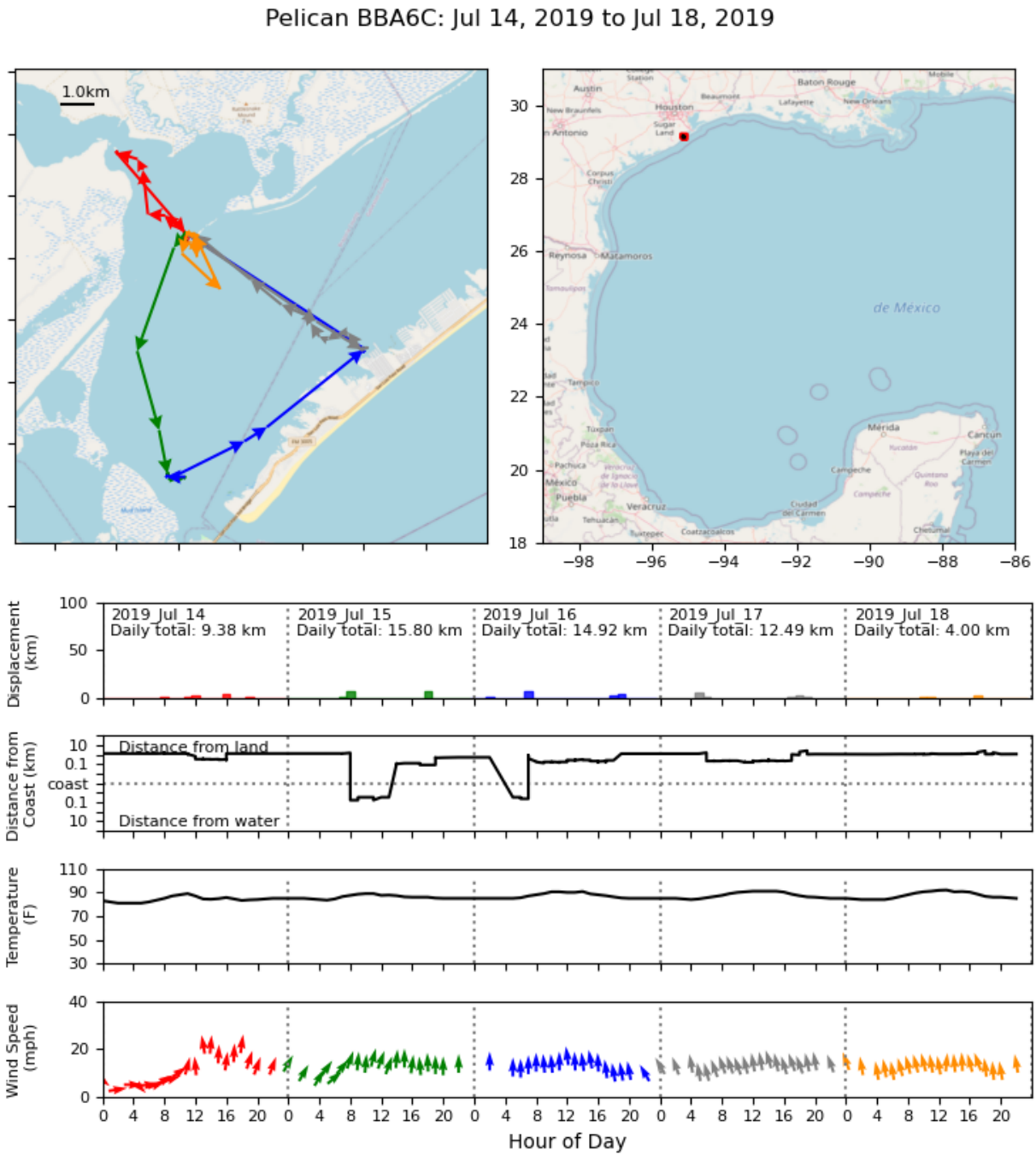

Figure 1318 - Maps and graphs showing movements of BBA6C between 2019-07-14 and 2019-07-17 inclusive.

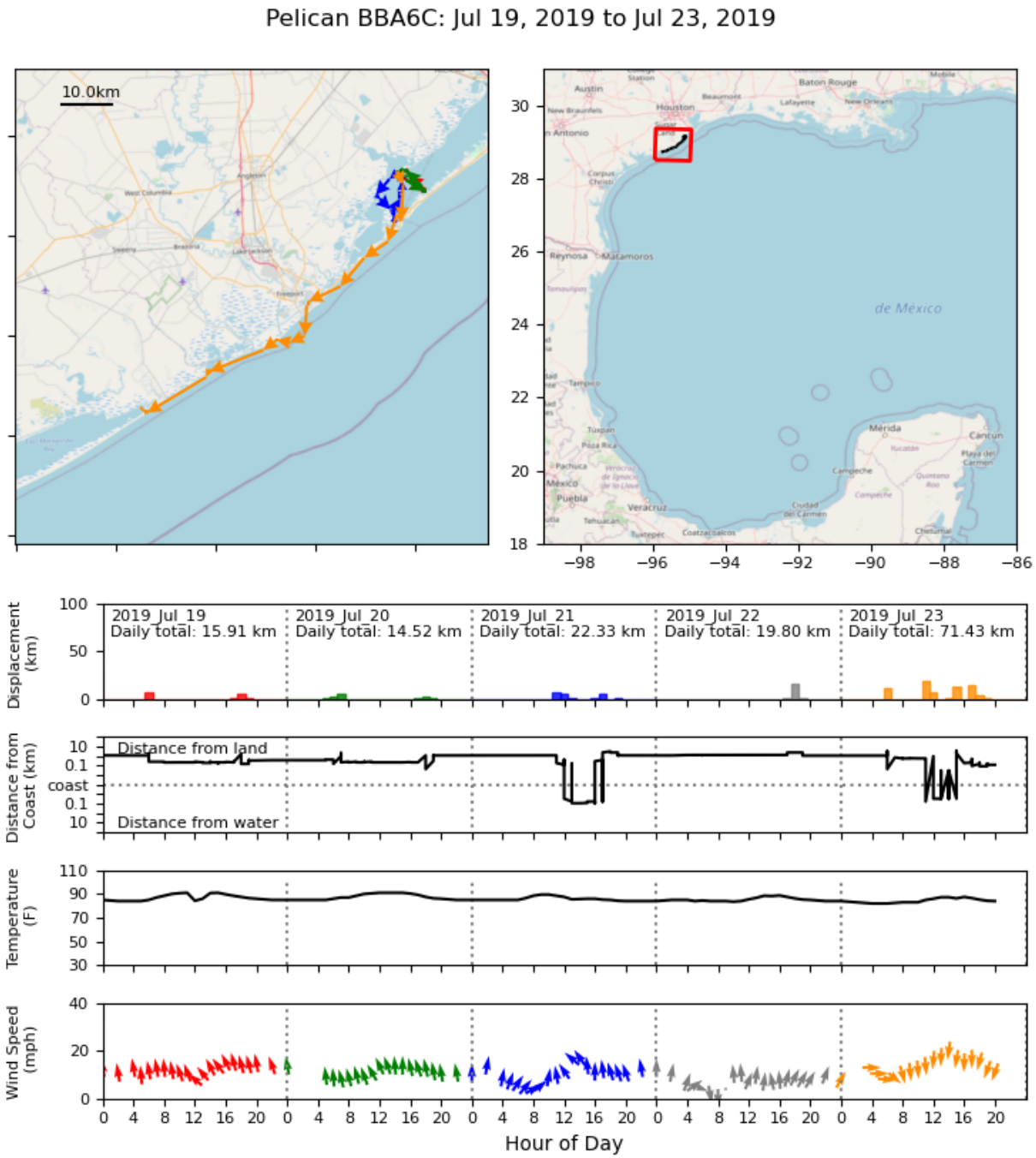

Figure 1319 - Maps and graphs showing movements of BBA6C between 2019-07-19 and 2019-07-22 inclusive.

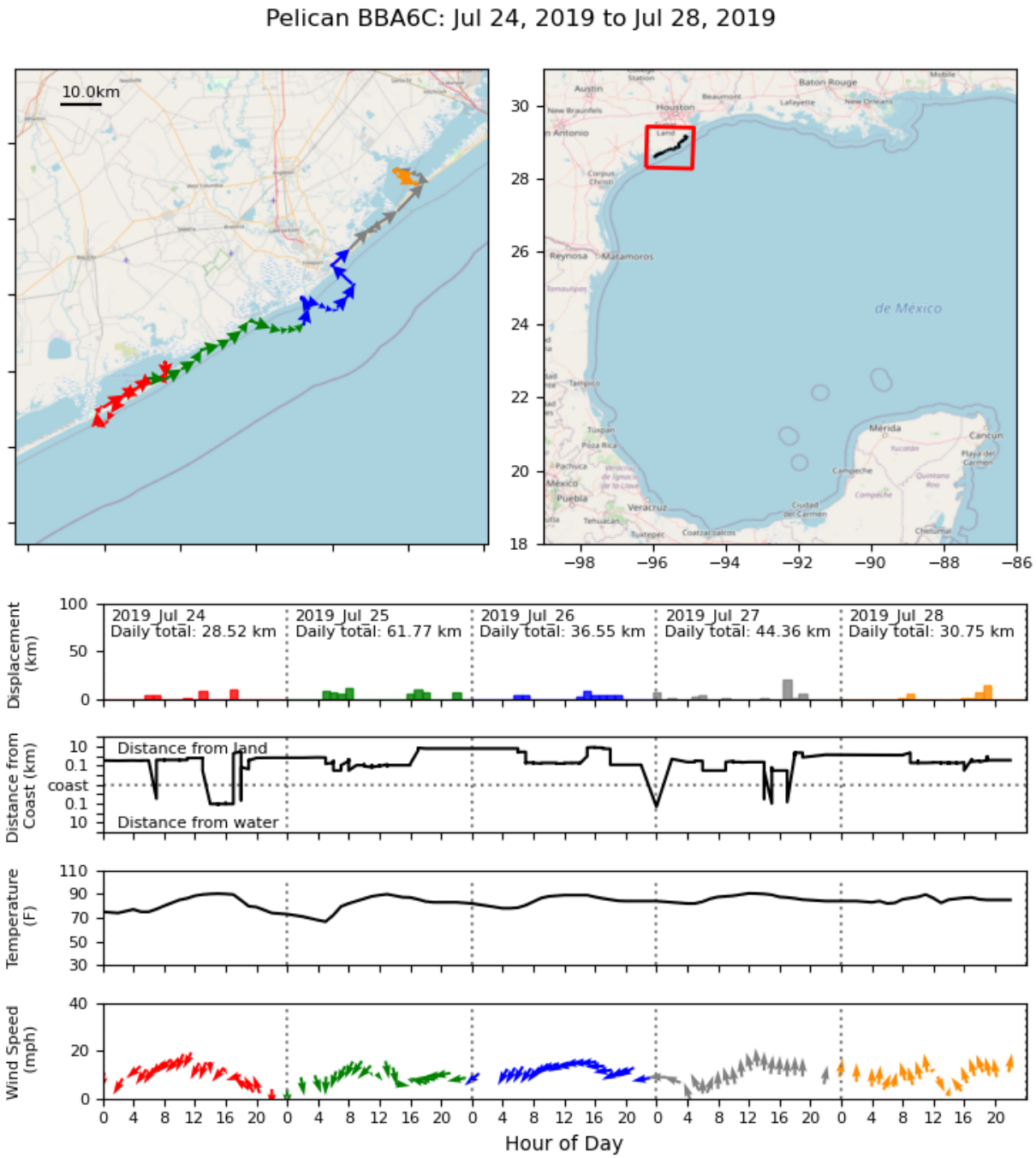

Figure 1320 - Maps and graphs showing movements of BBA6C between 2019-07-24 and 2019-07-27 inclusive.

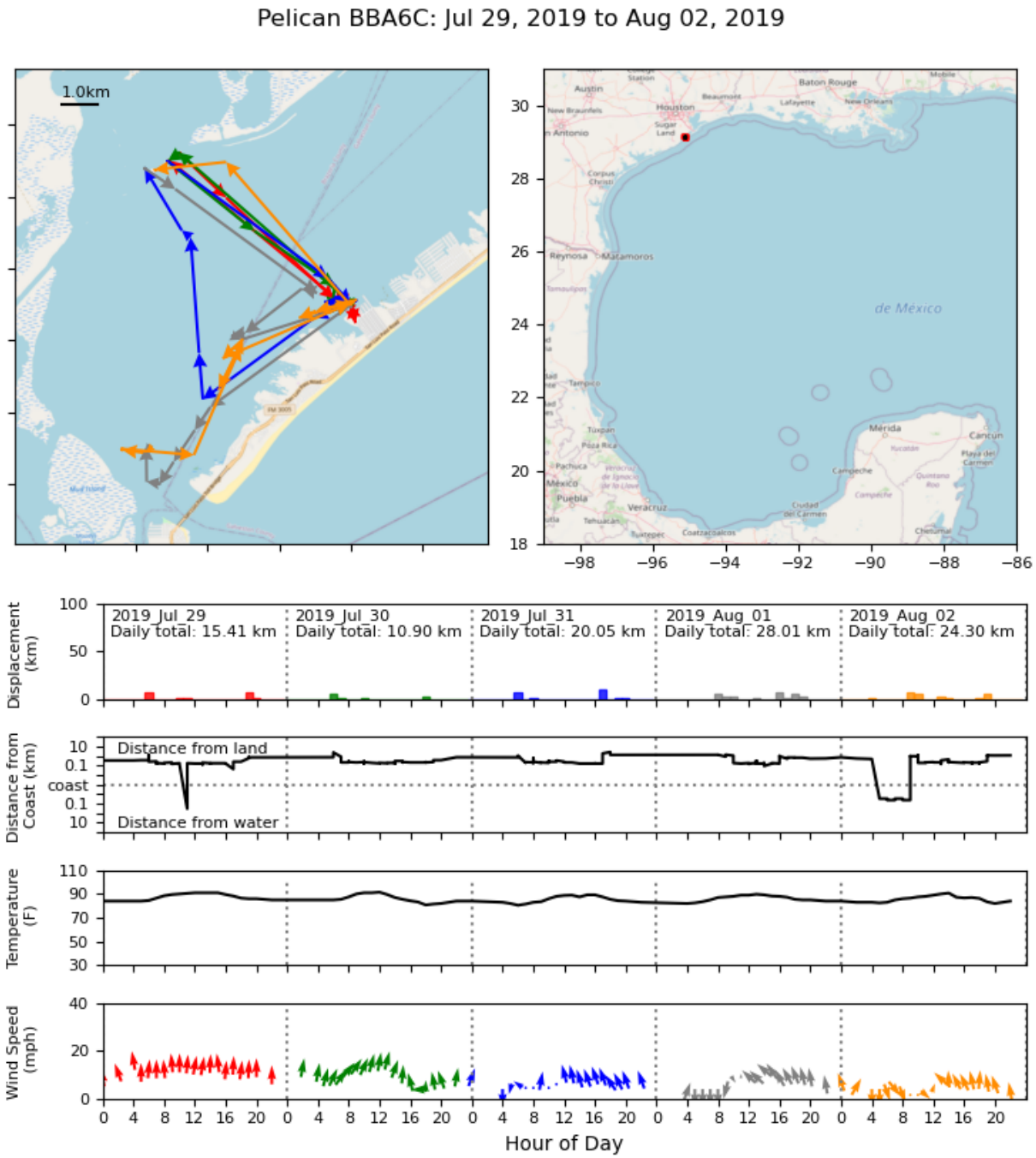

Figure 1321 - Maps and graphs showing movements of BBA6C between 2019-07-29 and 2019-08-01 inclusive.

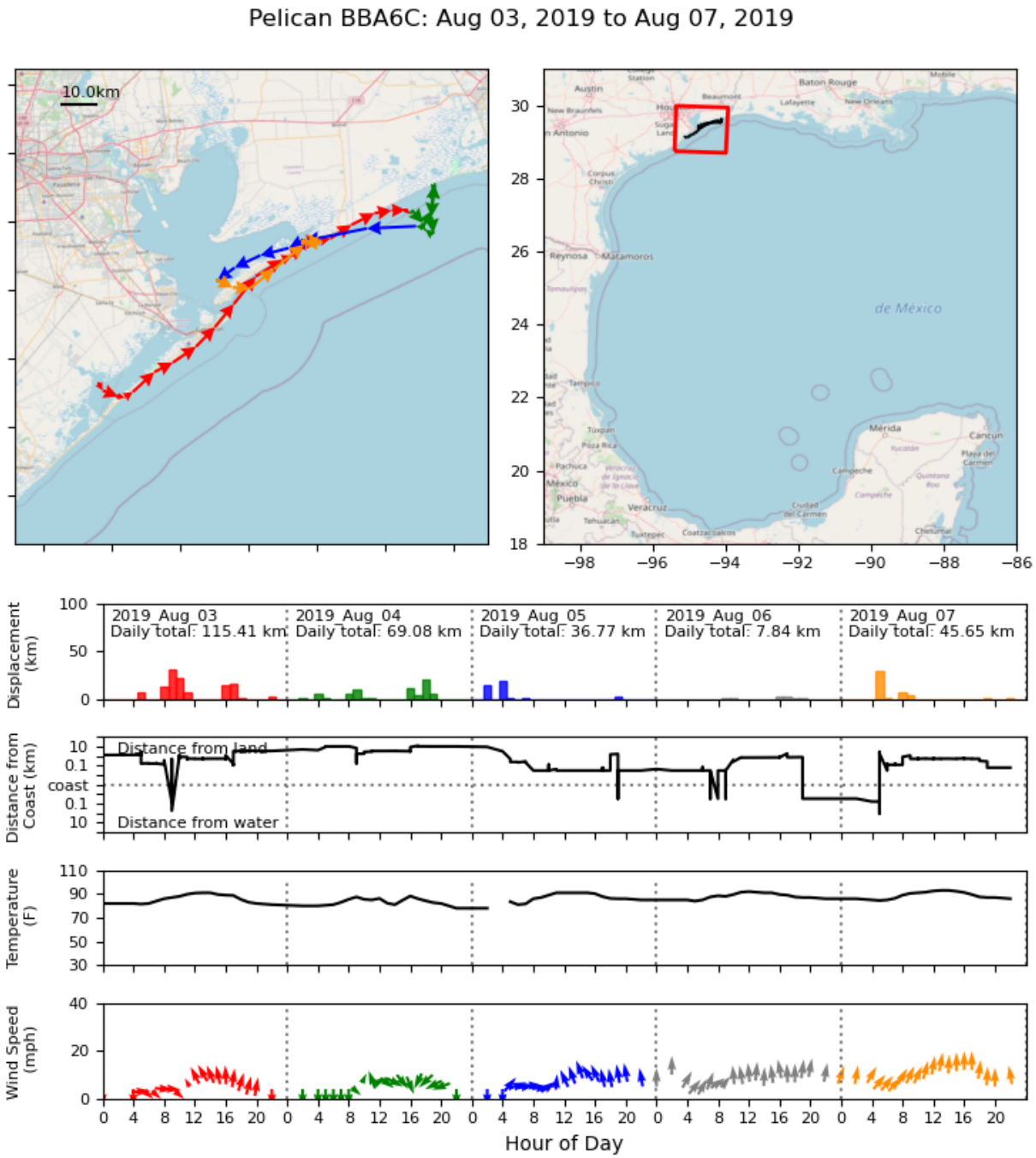

Figure 1322 - Maps and graphs showing movements of BBA6C between 2019-08-03 and 2019-08-06 inclusive.

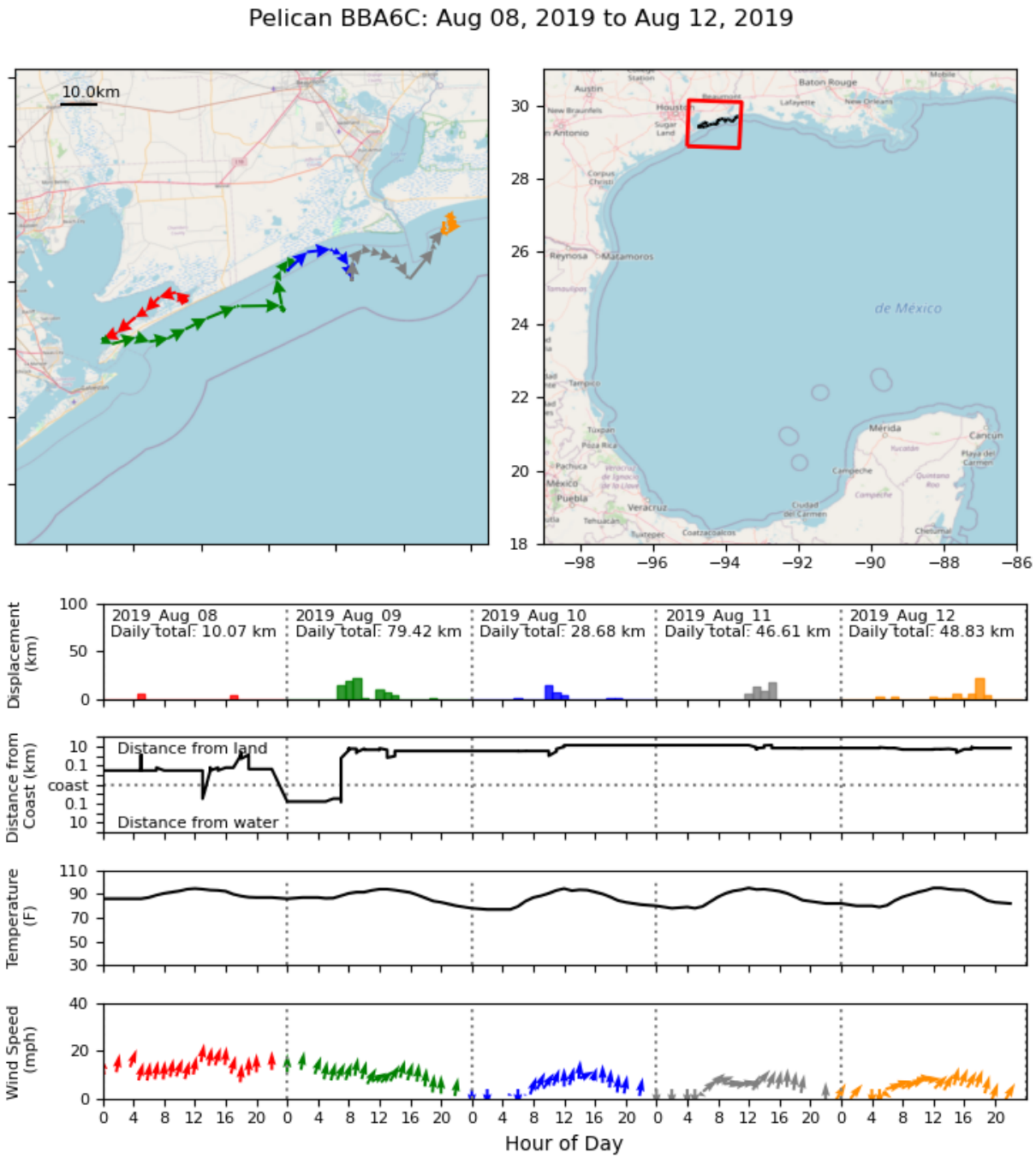

Figure 1323 - Maps and graphs showing movements of BBA6C between 2019-08-08 and 2019-08-11 inclusive.

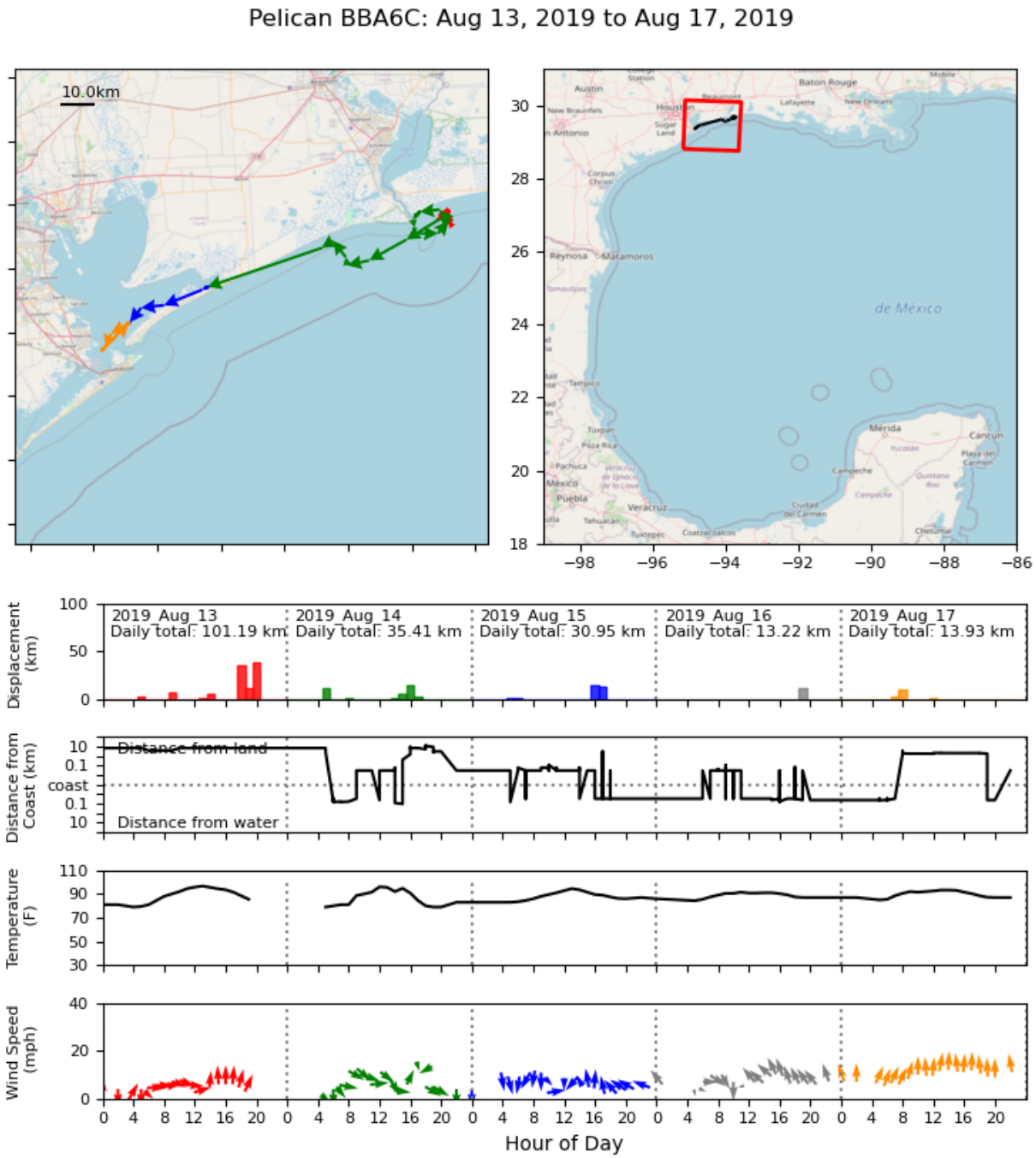

Figure 1324 - Maps and graphs showing movements of BBA6C between 2019-08-13 and 2019-08-16 inclusive.

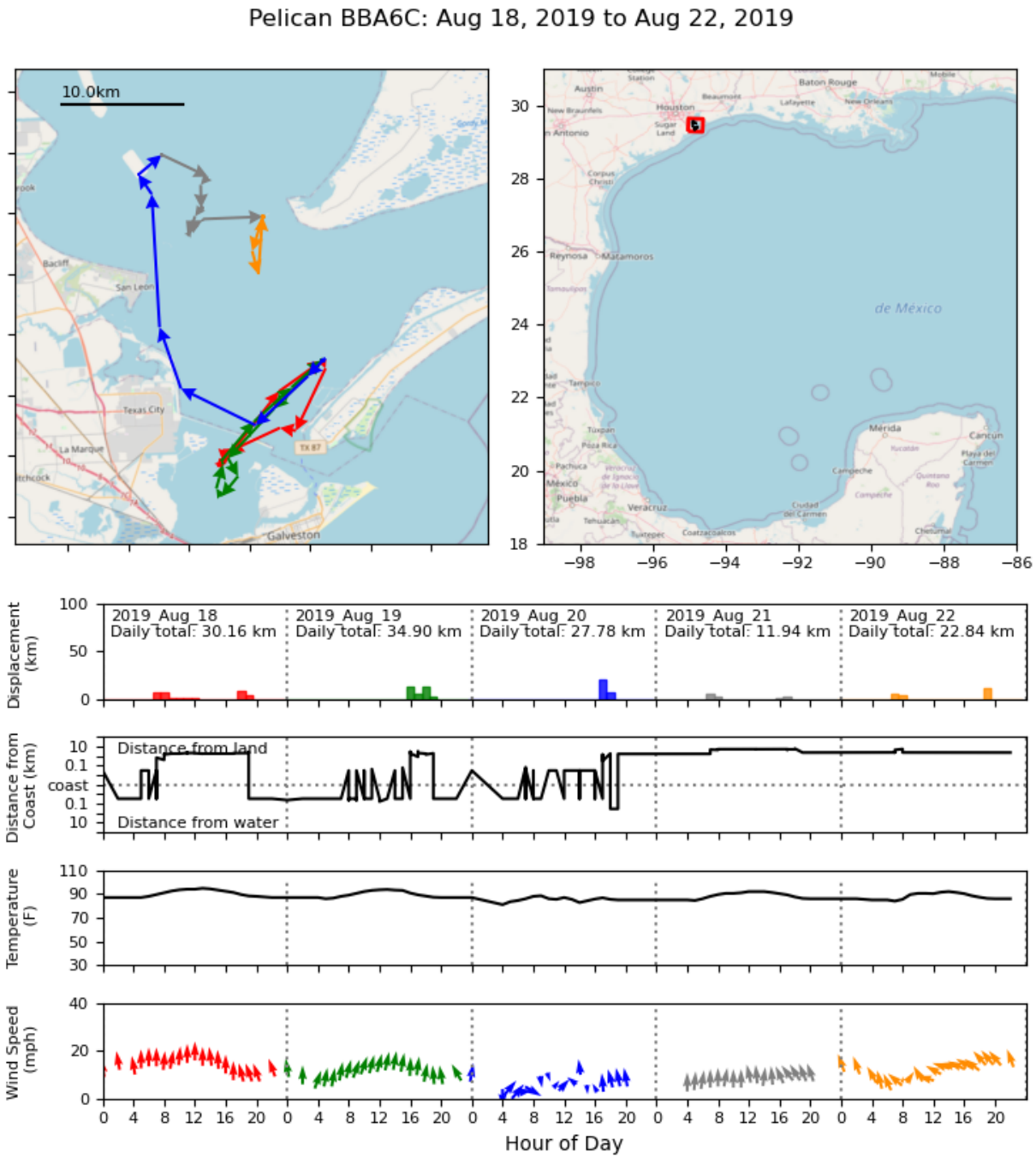

Figure 1325 - Maps and graphs showing movements of BBA6C between 2019-08-18 and 2019-08-21 inclusive.

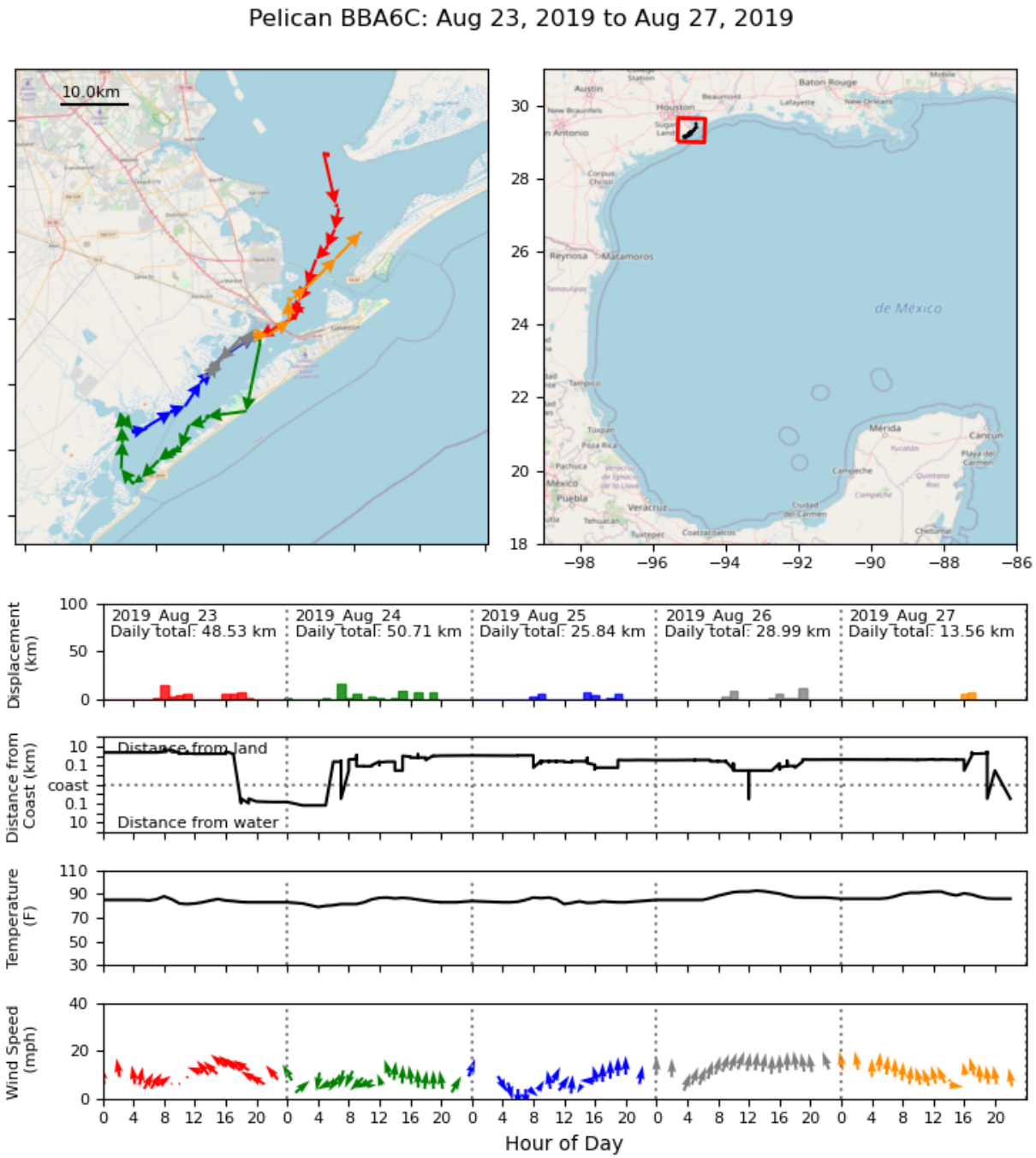

Figure 1326 - Maps and graphs showing movements of BBA6C between 2019-08-23 and 2019-08-26 inclusive.

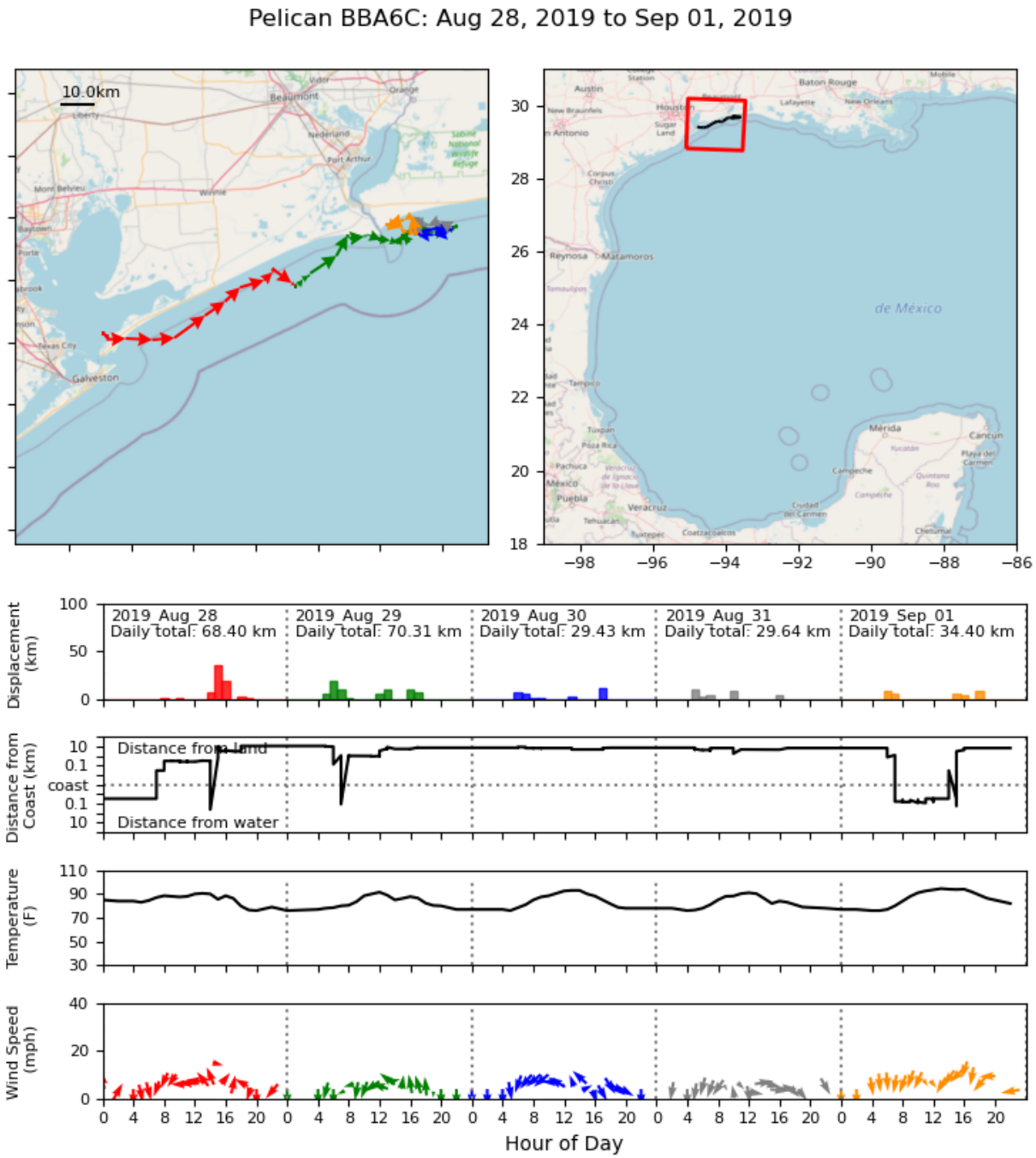

Figure 1327 - Maps and graphs showing movements of BBA6C between 2019-08-28 and 2019-08-31 inclusive.

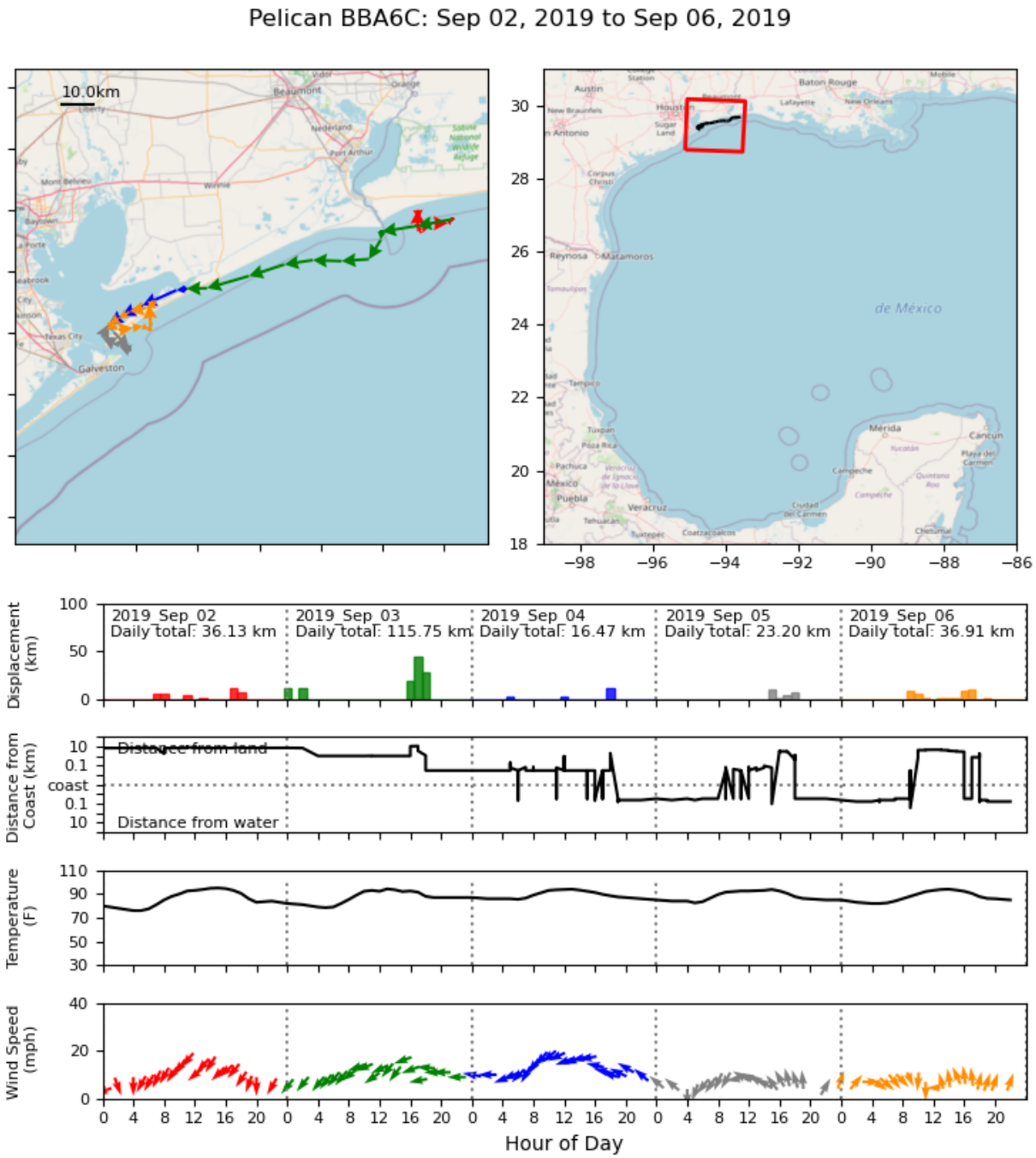

Figure 1328 - Maps and graphs showing movements of BBA6C between 2019-09-02 and 2019-09-05 inclusive.

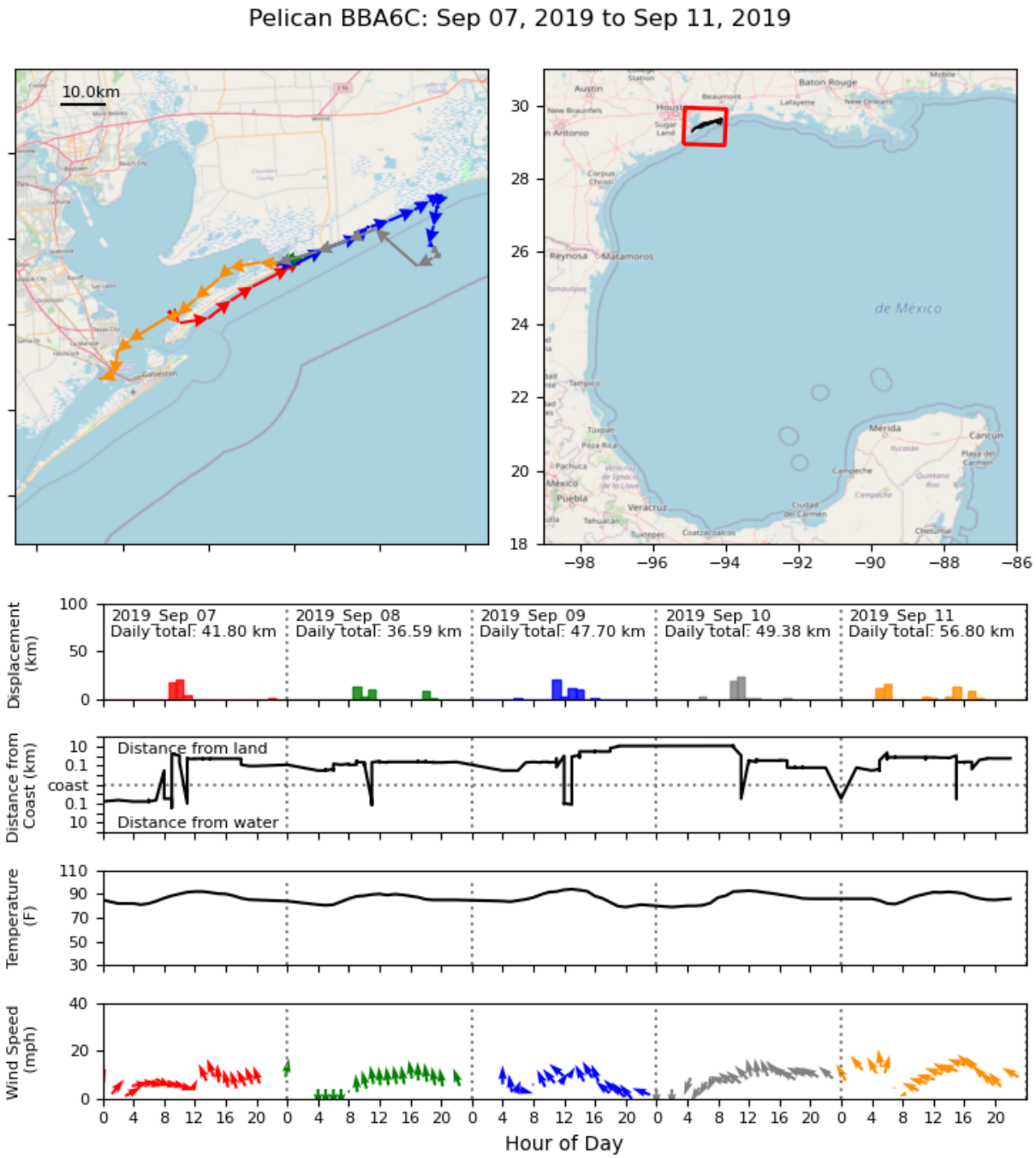

Figure 1329 - Maps and graphs showing movements of BBA6C between 2019-09-07 and 2019-09-10 inclusive.

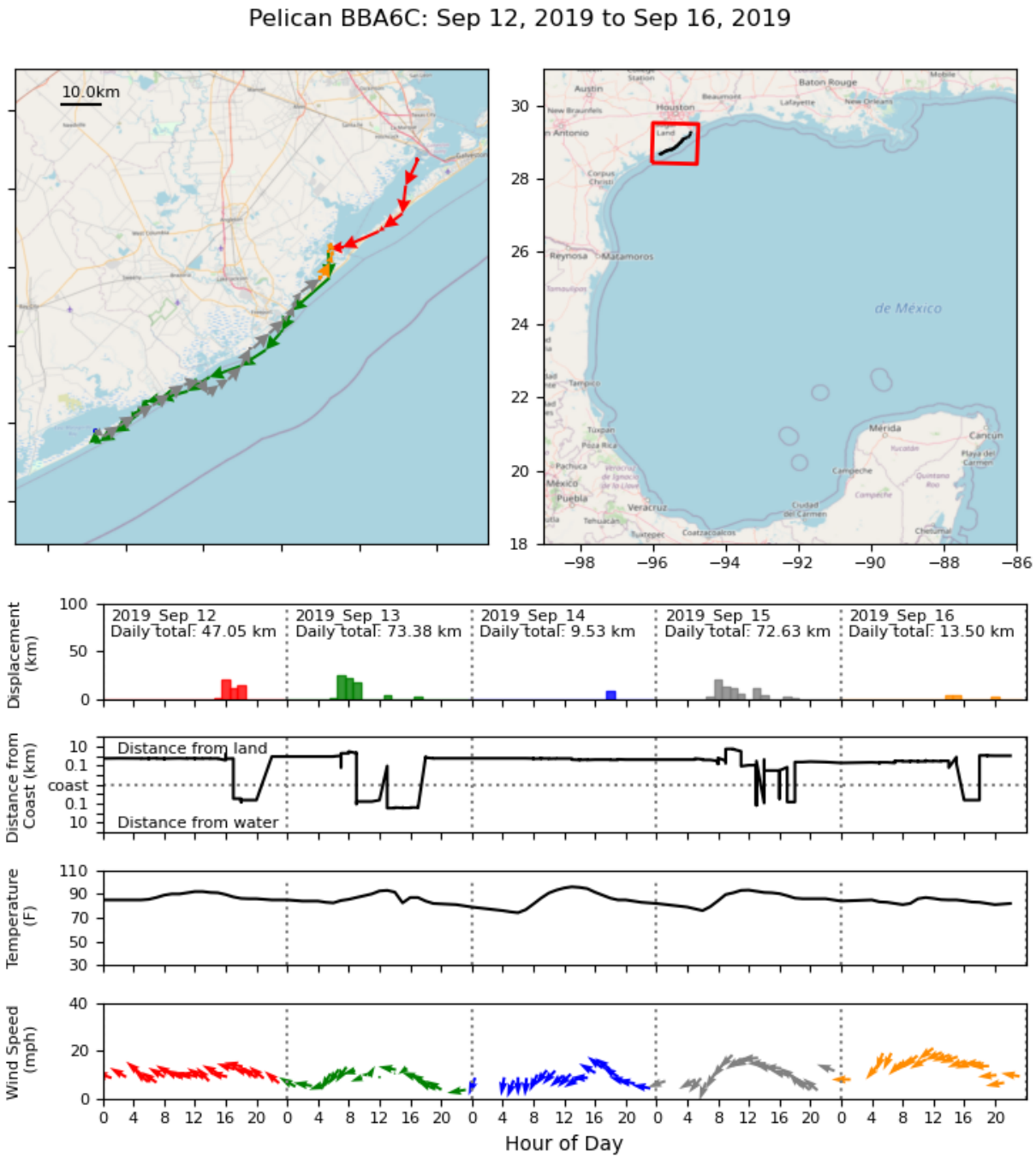

Figure 1330 - Maps and graphs showing movements of BBA6C between 2019-09-12 and 2019-09-15 inclusive.

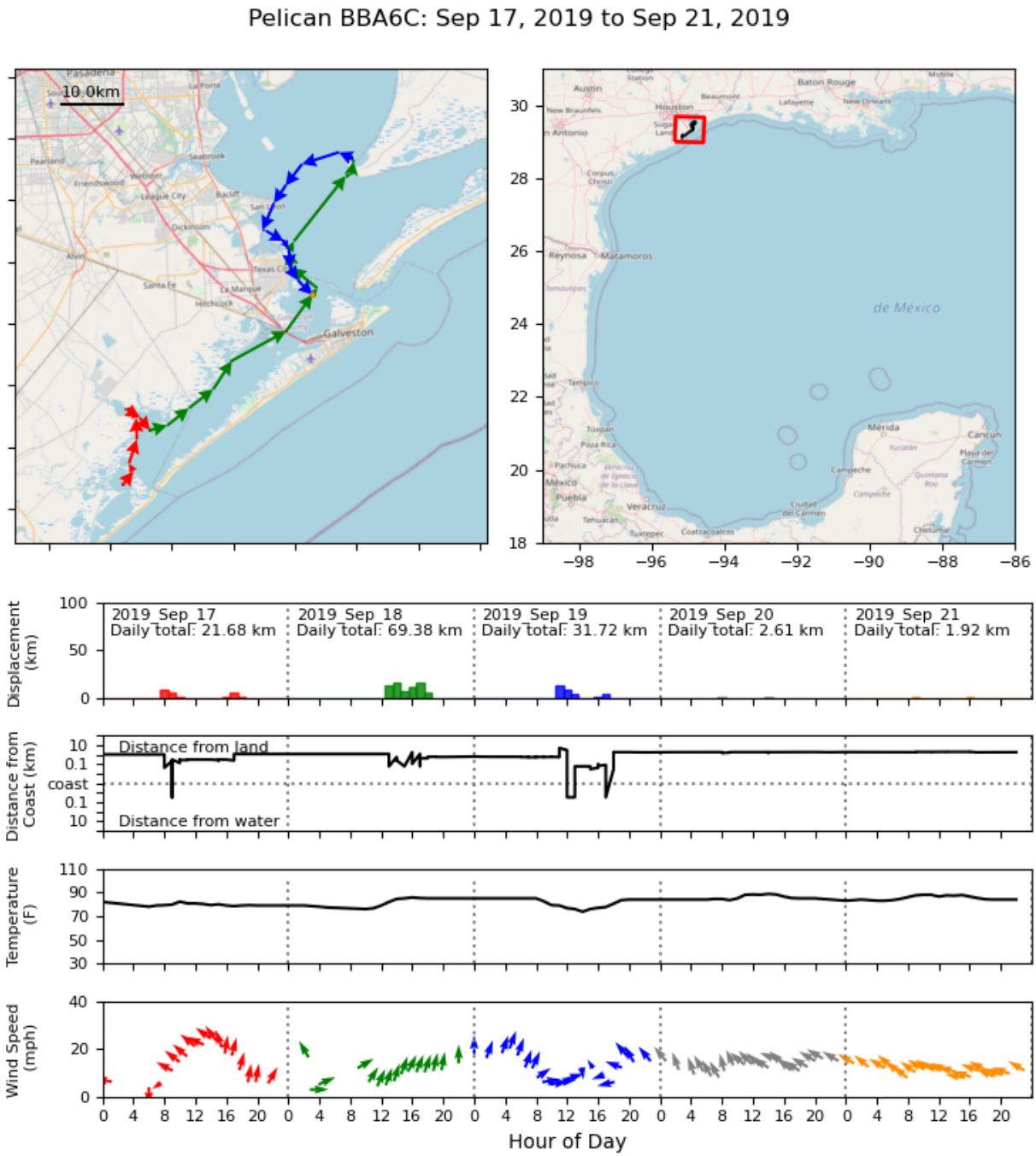

Figure 1331 - Maps and graphs showing movements of BBA6C between 2019-09-17 and 2019-09-20 inclusive.

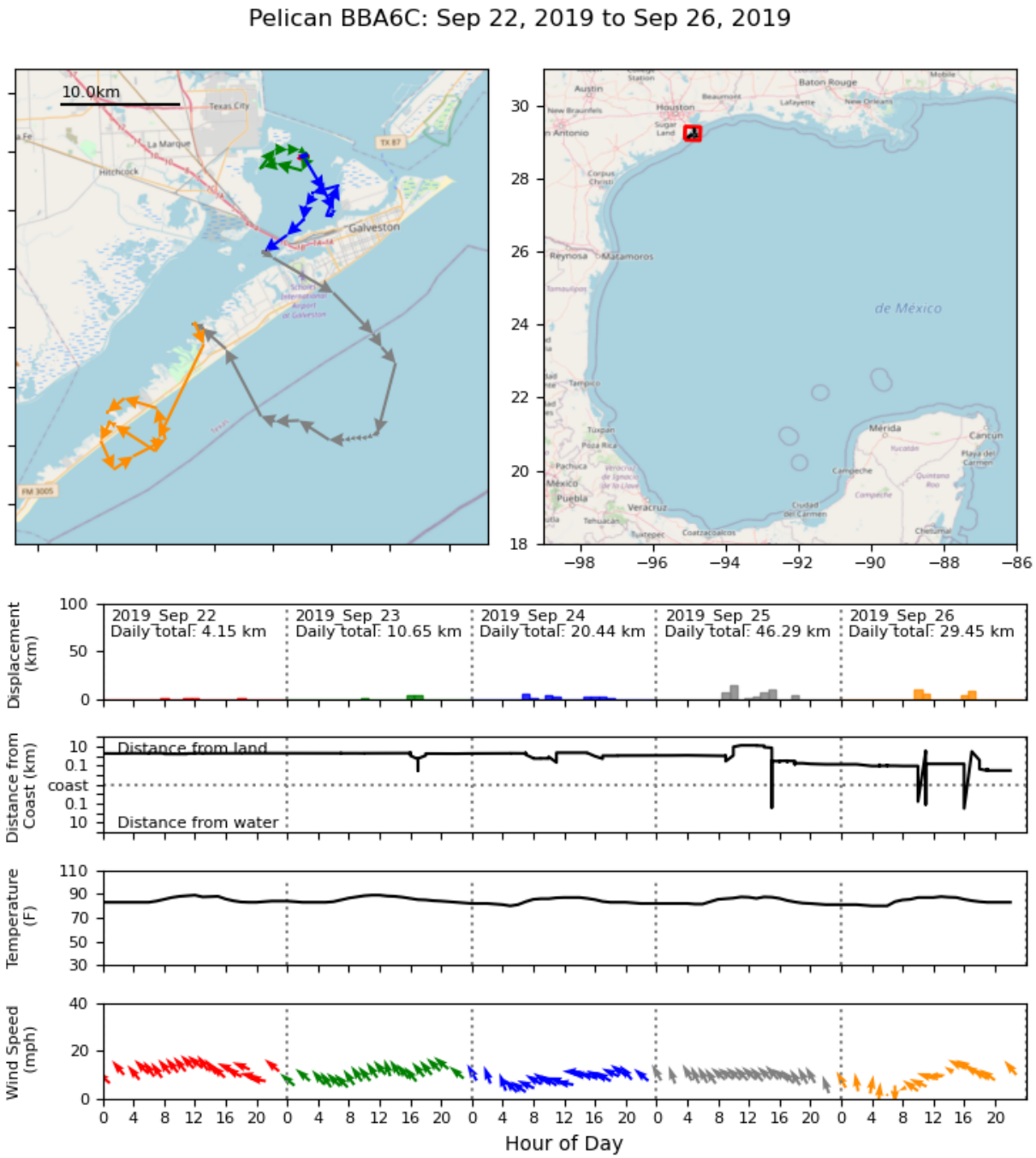

Figure 1332 - Maps and graphs showing movements of BBA6C between 2019-09-22 and 2019-09-25 inclusive.

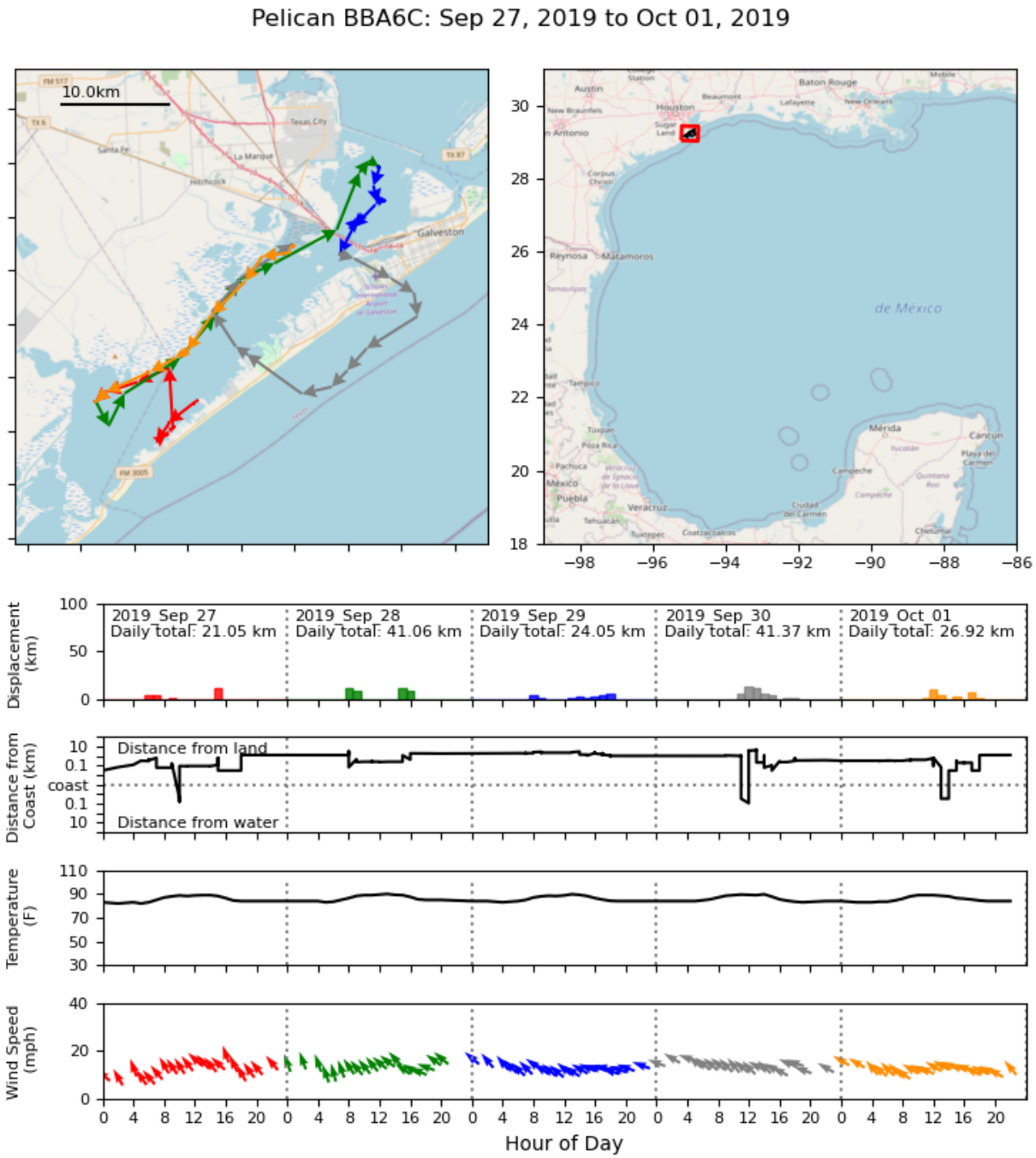

Figure 1333 - Maps and graphs showing movements of BBA6C between 2019-09-27 and 2019-09-30 inclusive.

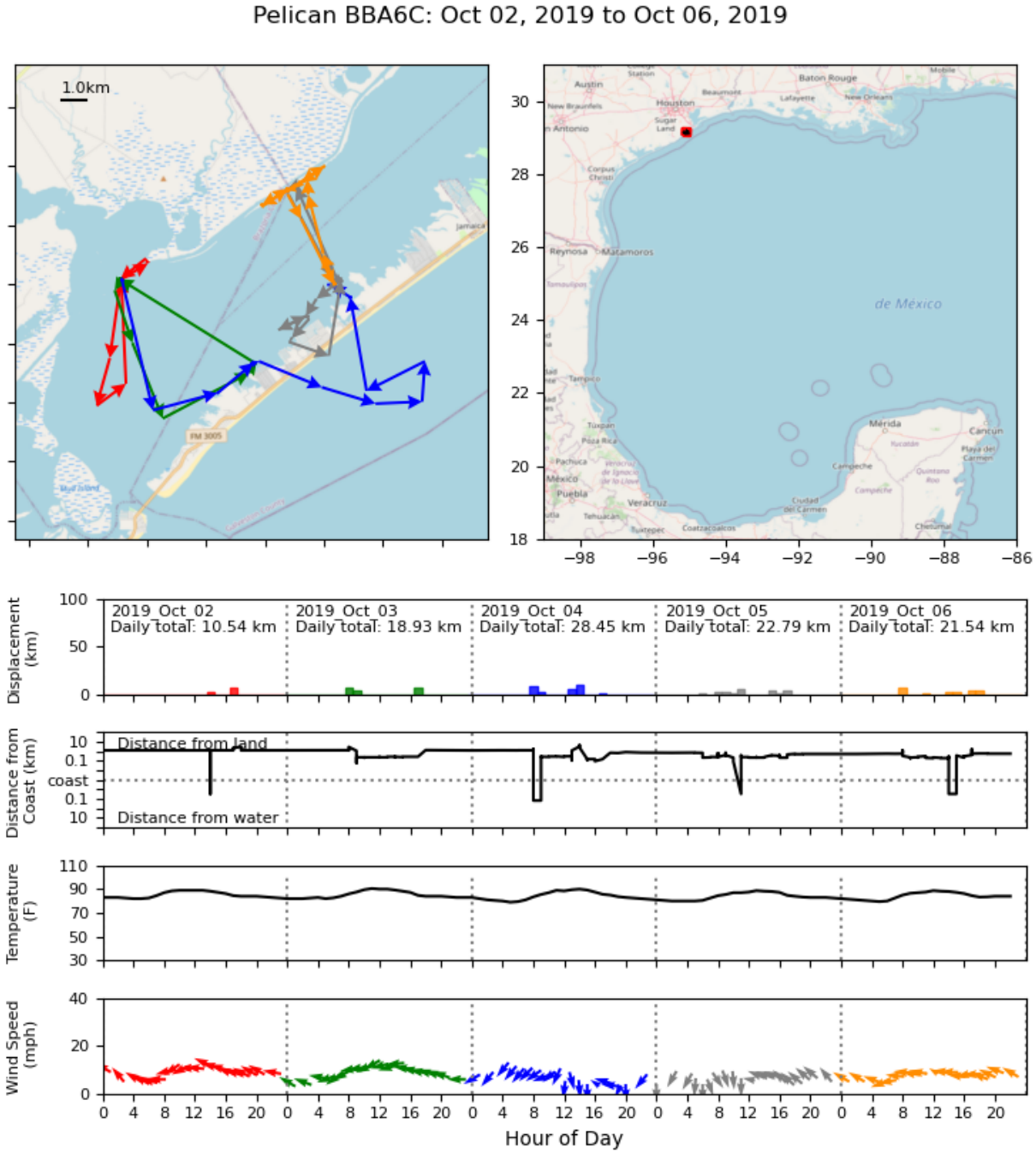

Figure 1334 - Maps and graphs showing movements of BBA6C between 2019-10-02 and 2019-10-05 inclusive.

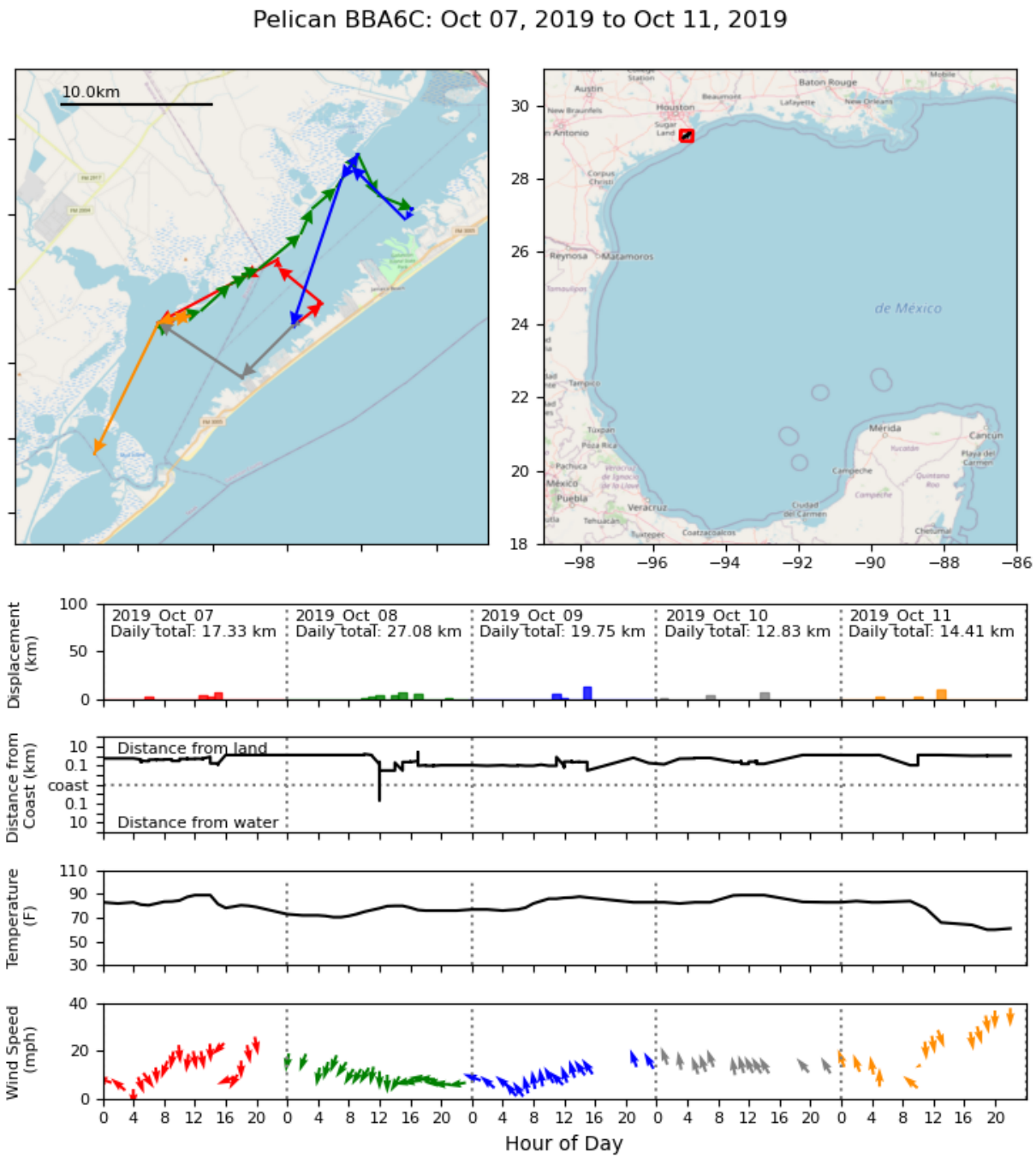

Figure 1335 - Maps and graphs showing movements of BBA6C between 2019-10-07 and 2019-10-10 inclusive.

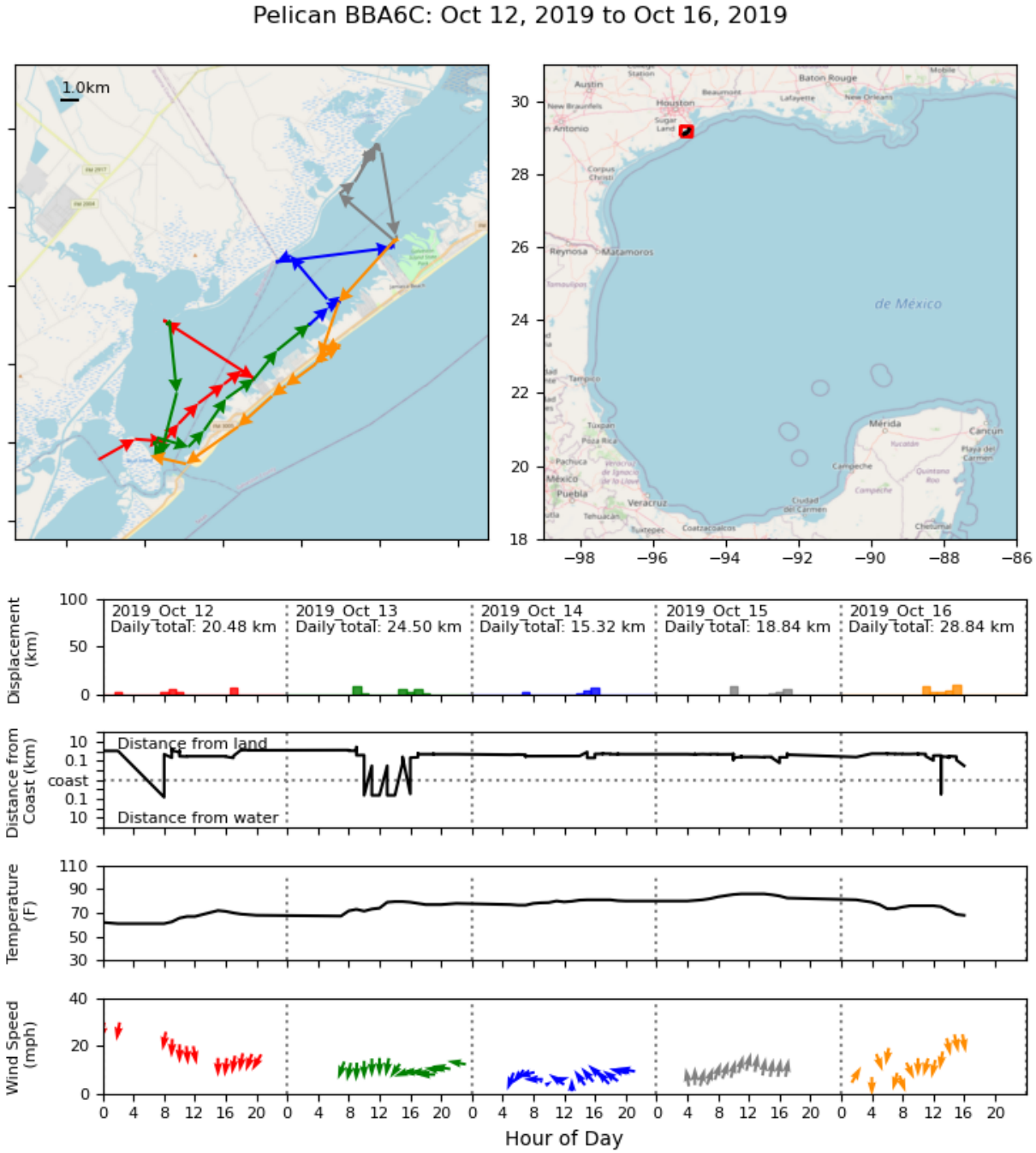

Figure 1336 - Maps and graphs showing movements of BBA6C between 2019-10-12 and 2019-10-15 inclusive.

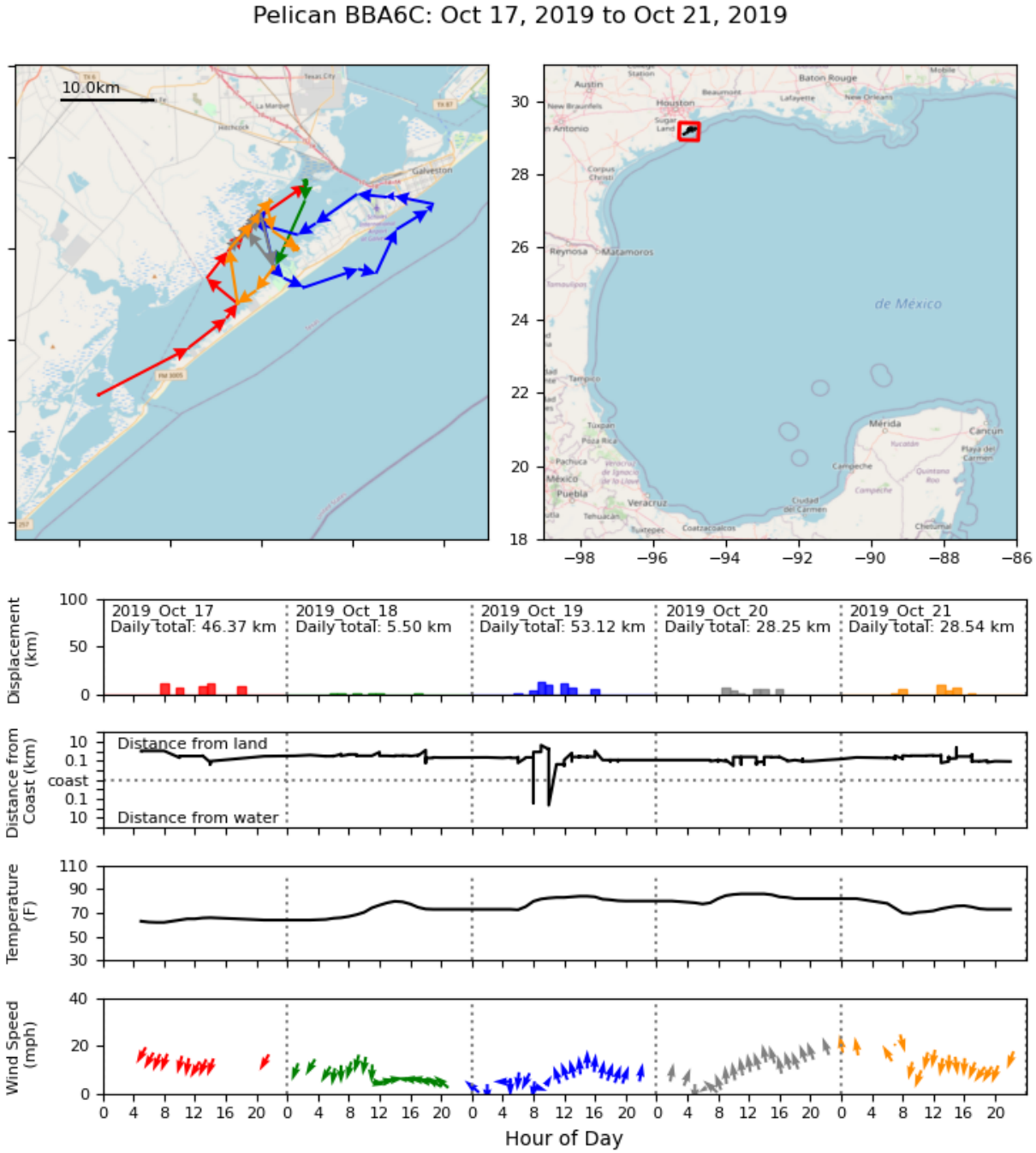

Figure 1337 - Maps and graphs showing movements of BBA6C between 2019-10-17 and 2019-10-20 inclusive.

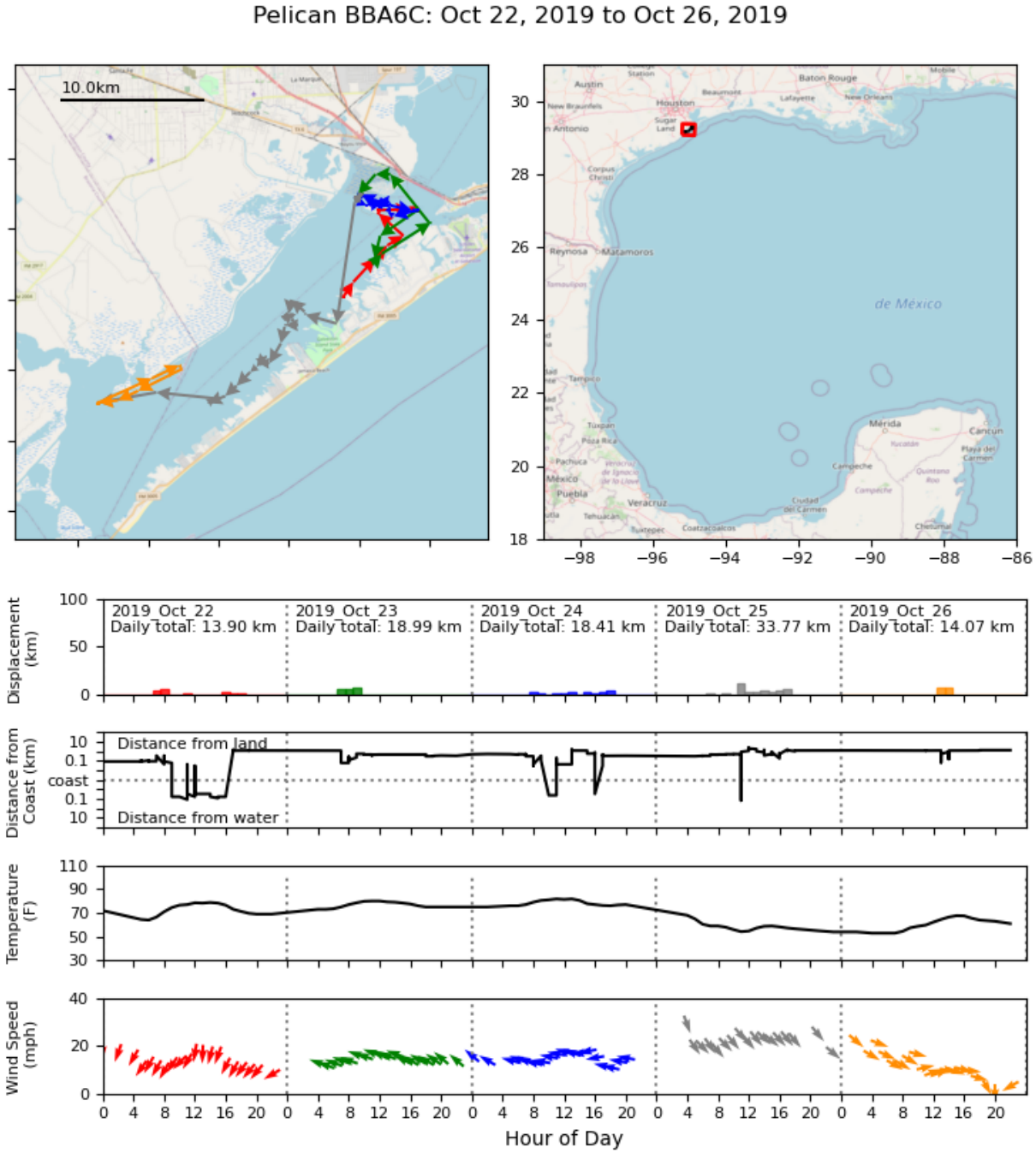

Figure 1338 - Maps and graphs showing movements of BBA6C between 2019-10-22 and 2019-10-25 inclusive.

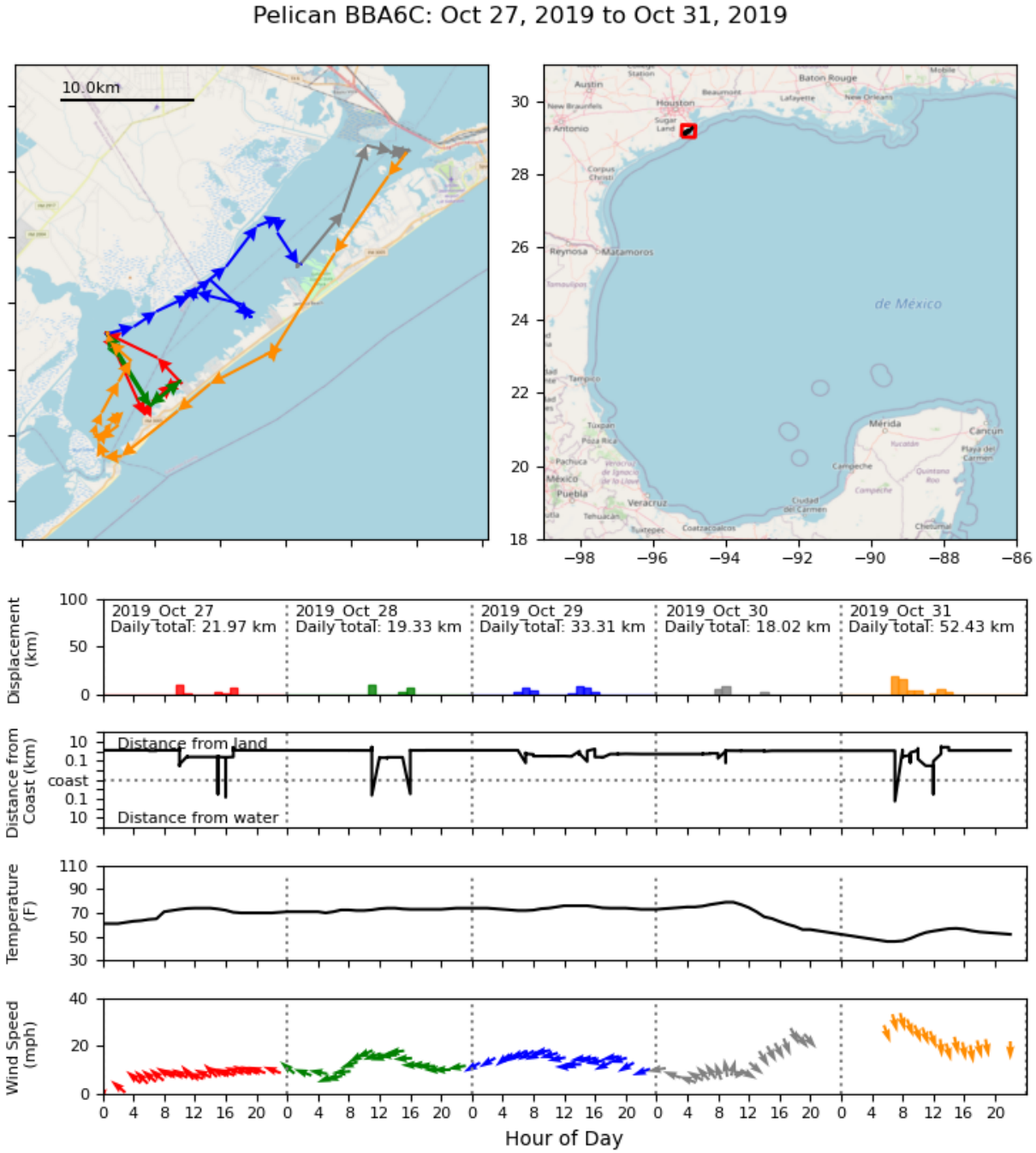

Figure 1339 - Maps and graphs showing movements of BBA6C between 2019-10-27 and 2019-10-30 inclusive.

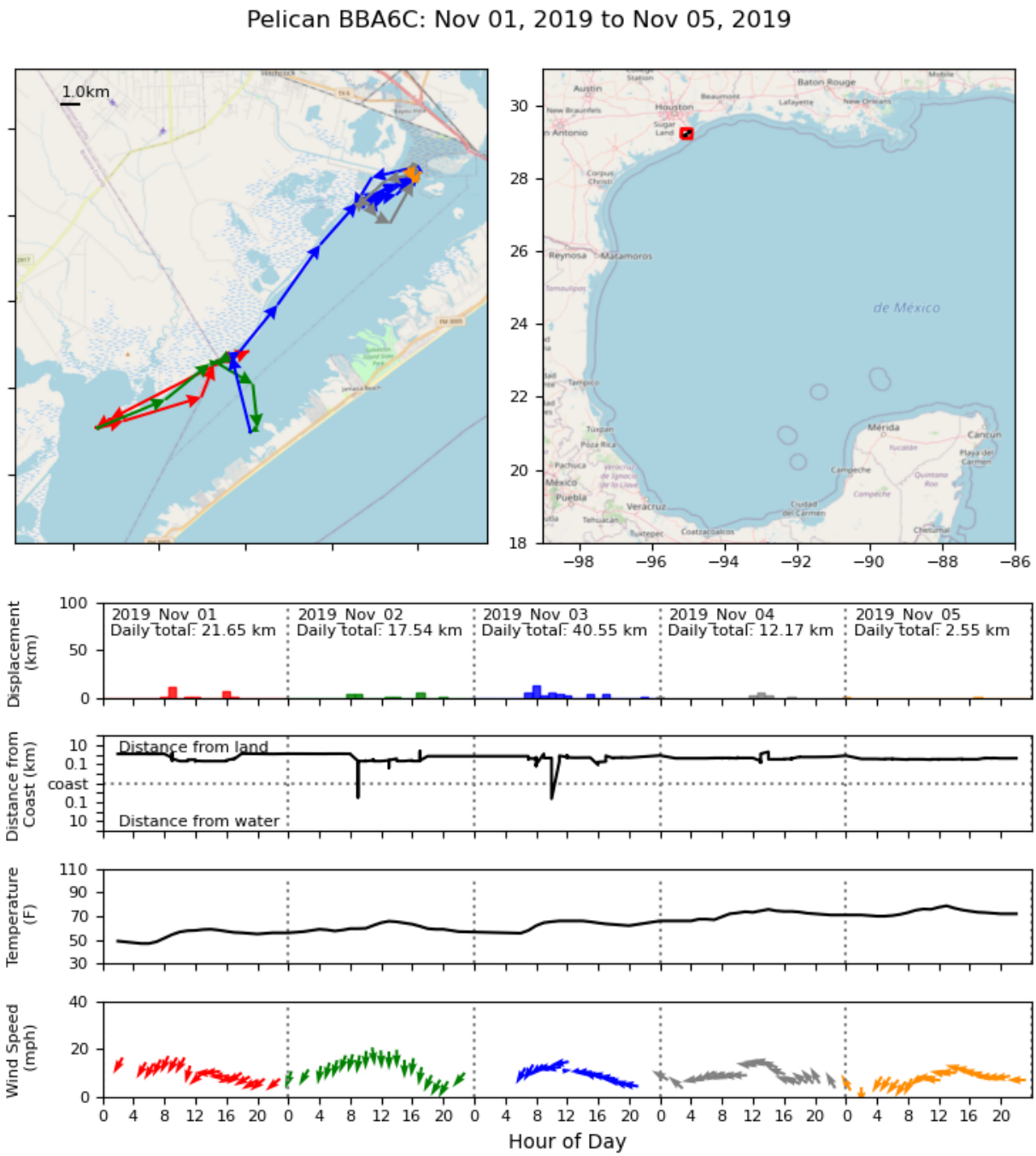

Figure 1340 - Maps and graphs showing movements of BBA6C between 2019-11-01 and 2019-11-04 inclusive.

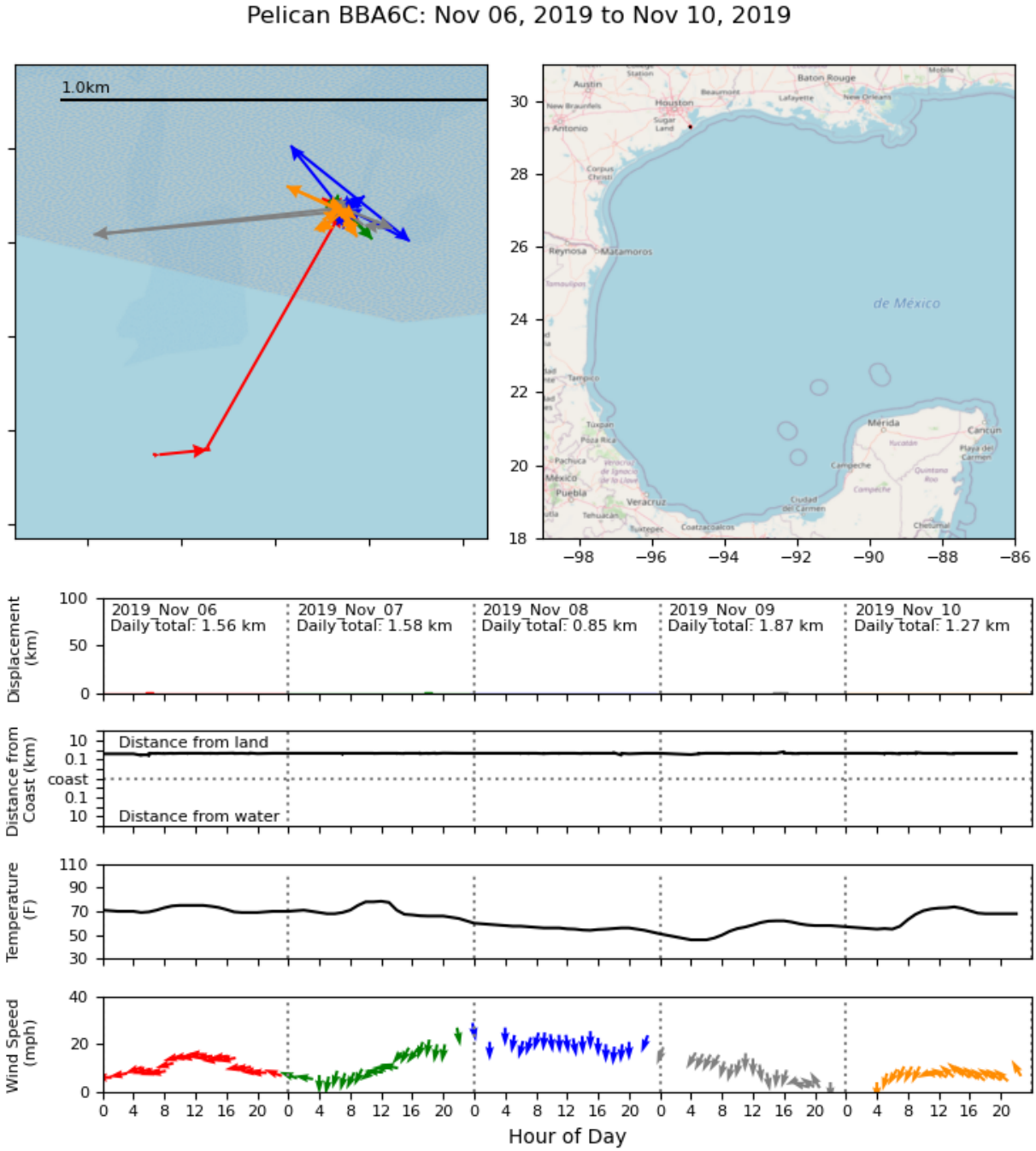

Figure 1341 - Maps and graphs showing movements of BBA6C between 2019-11-06 and 2019-11-09 inclusive.

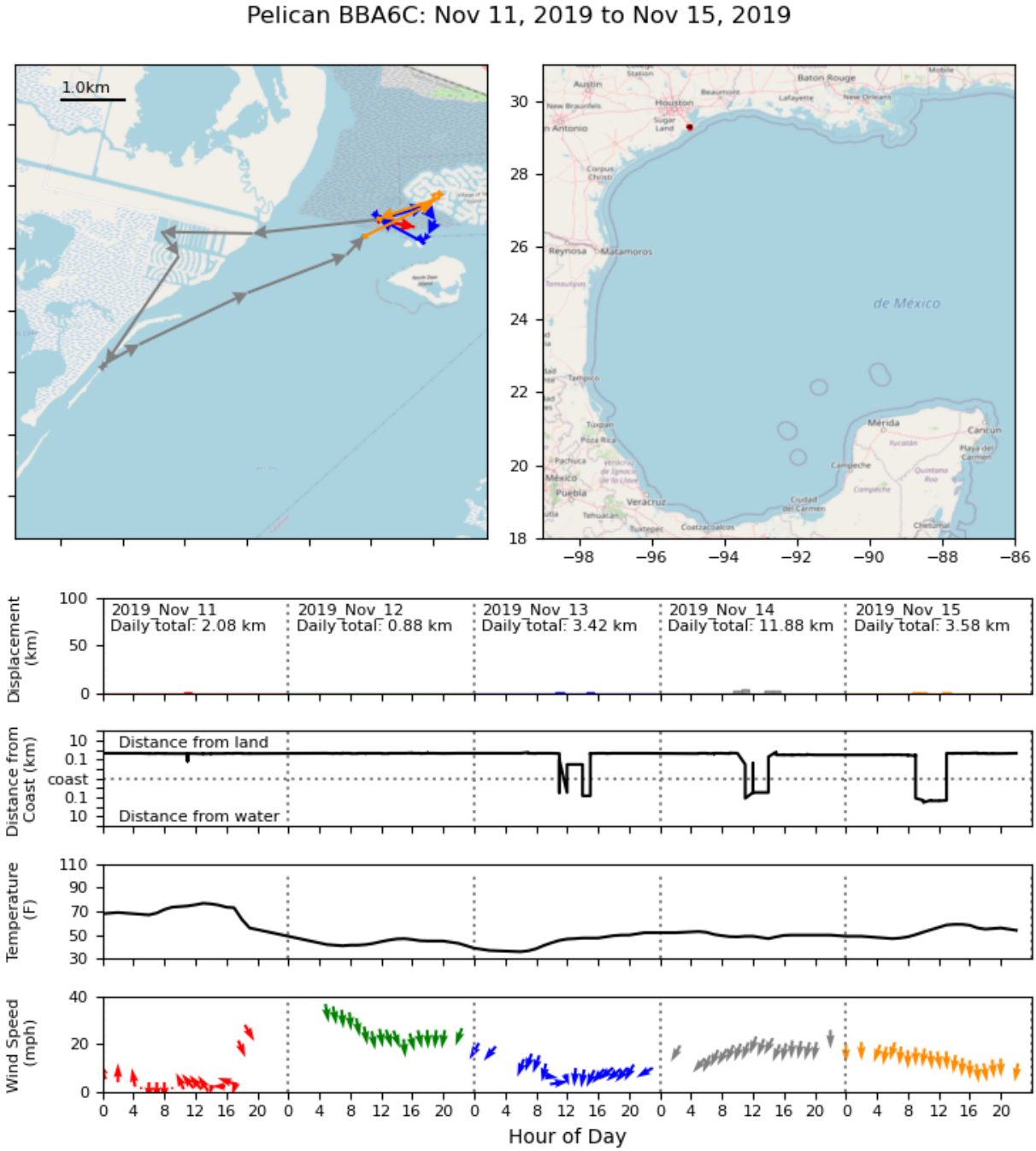

Figure 1342 - Maps and graphs showing movements of BBA6C between 2019-11-11 and 2019-11-14 inclusive.

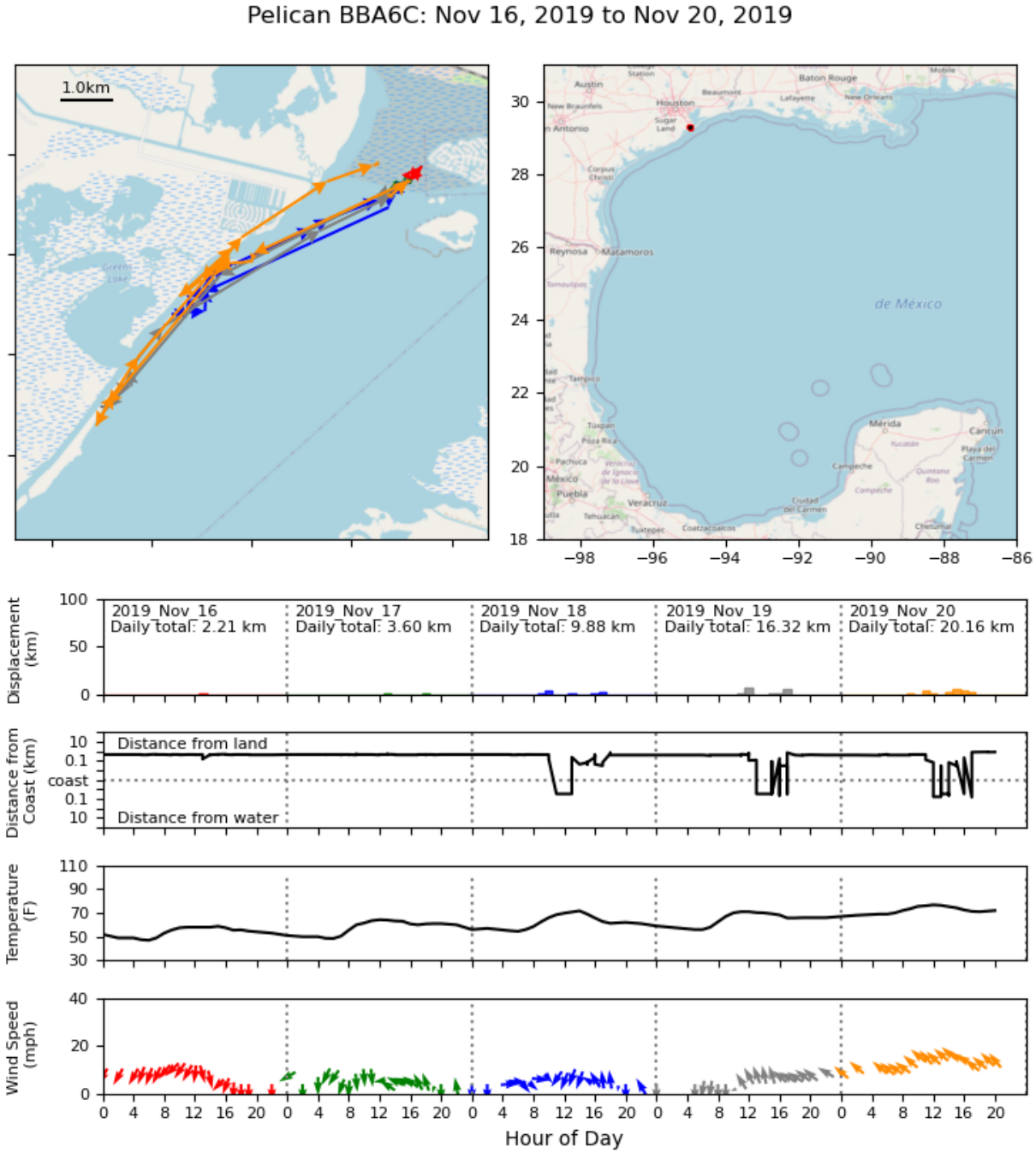

Figure 1343 - Maps and graphs showing movements of BBA6C between 2019-11-16 and 2019-11-19 inclusive.

Pelican B8A6 - Active from February 19, 2019 to March 14, 2019

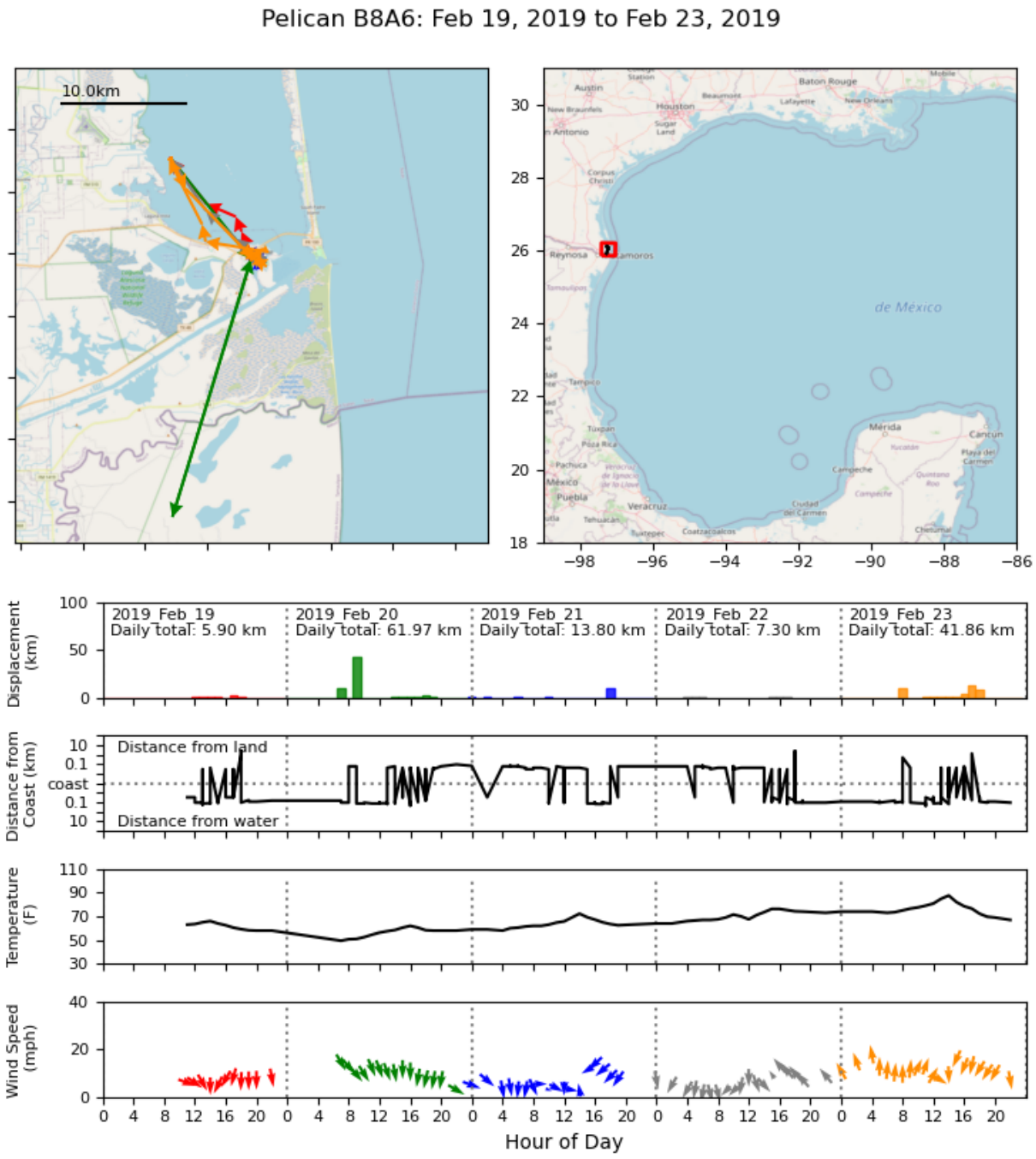

Figure 1344 - Maps and graphs showing movements of B8A6 between 2019-02-19 and 2019-02-22 inclusive.

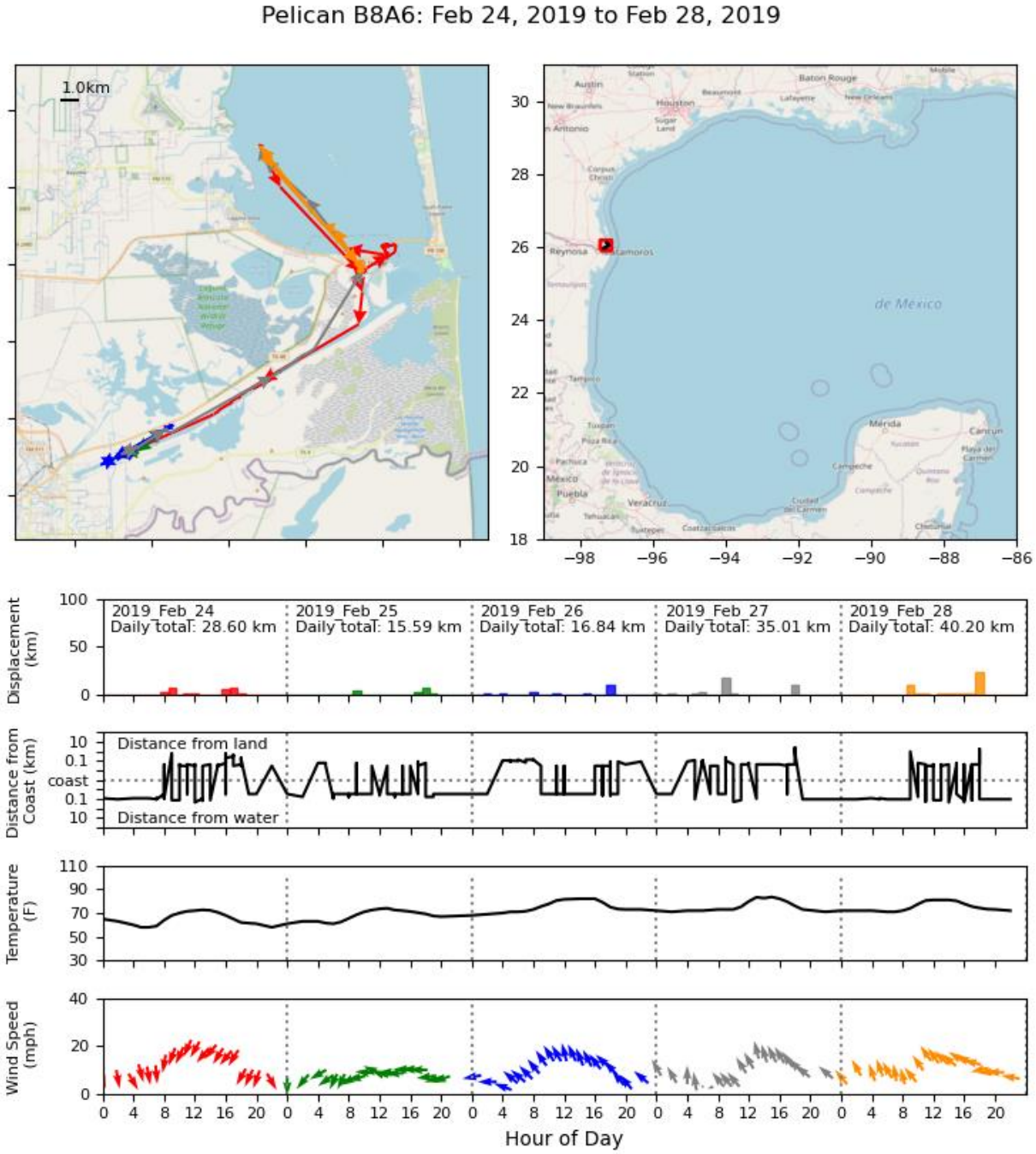

Figure 1345 - Maps and graphs showing movements of B8A6 between 2019-02-24 and 2019-02-27 inclusive.

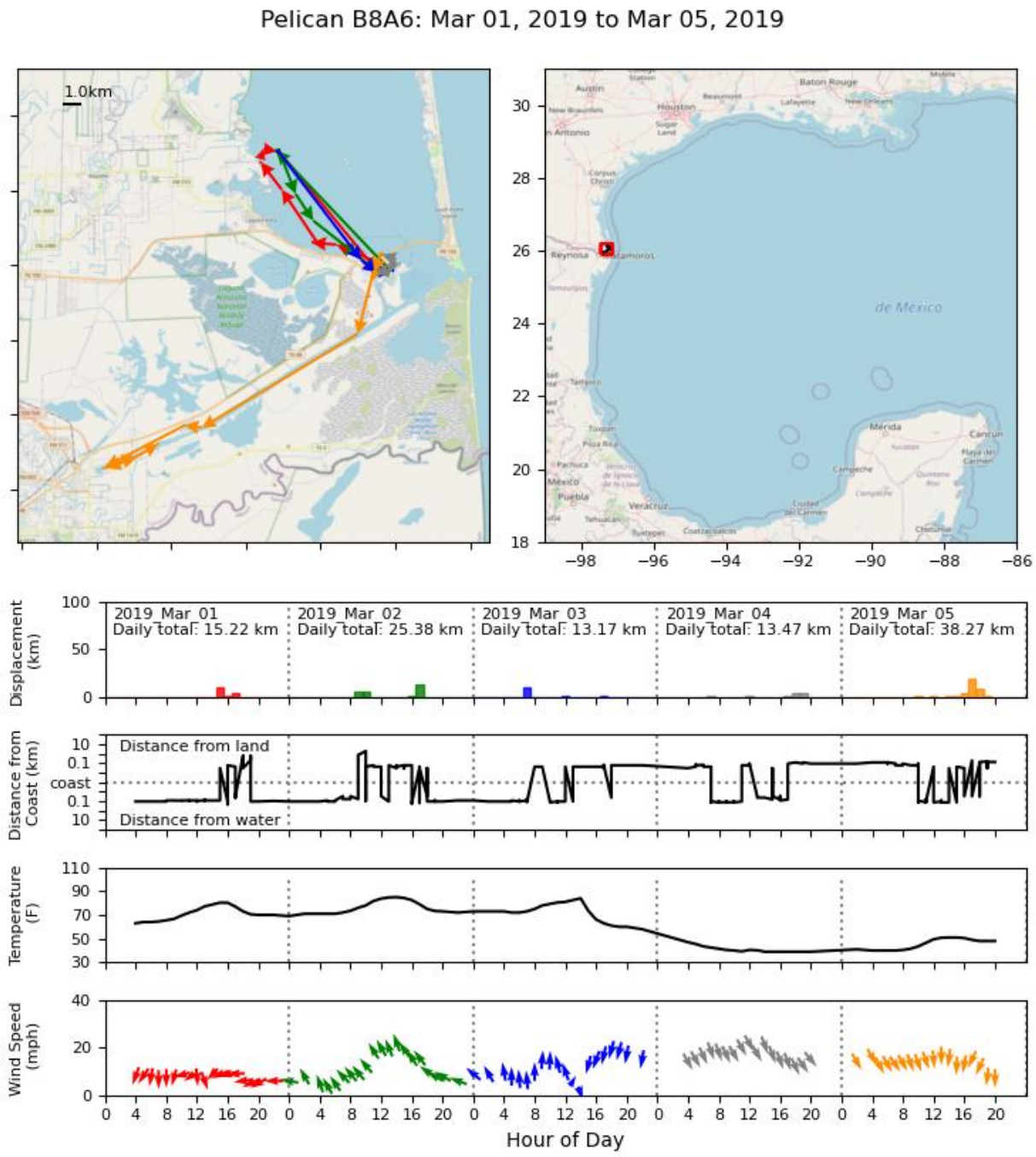

Figure 1346 - Maps and graphs showing movements of B8A6 between 2019-03-01 and 2019-03-04 inclusive.

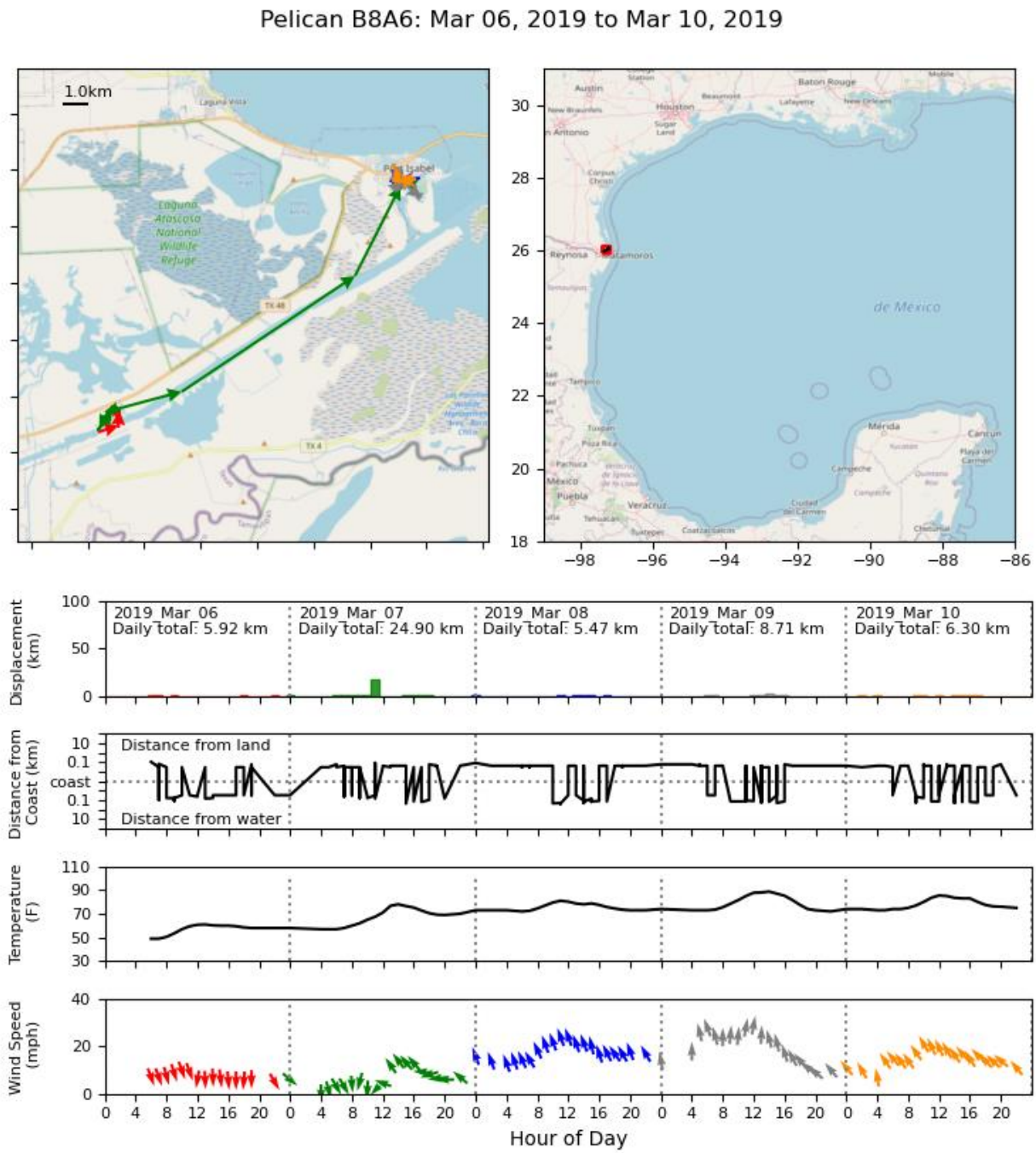

Figure 1347 - Maps and graphs showing movements of B8A6 between 2019-03-06 and 2019-03-09 inclusive.

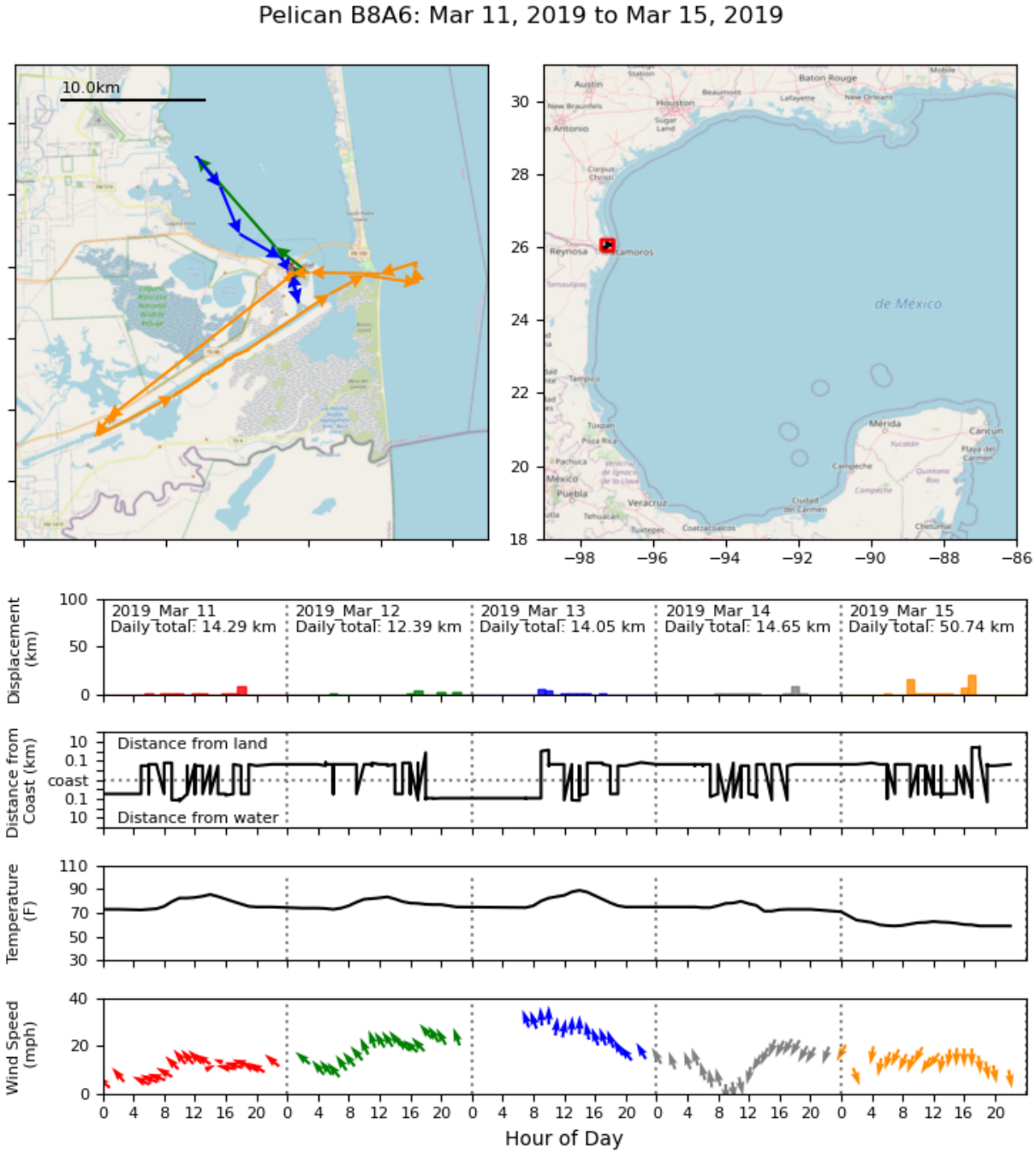

Figure 1348 - Maps and graphs showing movements of B8A6 between 2019-03-11 and 2019-03-14 inclusive.

Pelican BAA6 - Active from February 21, 2019 to June 04, 2019

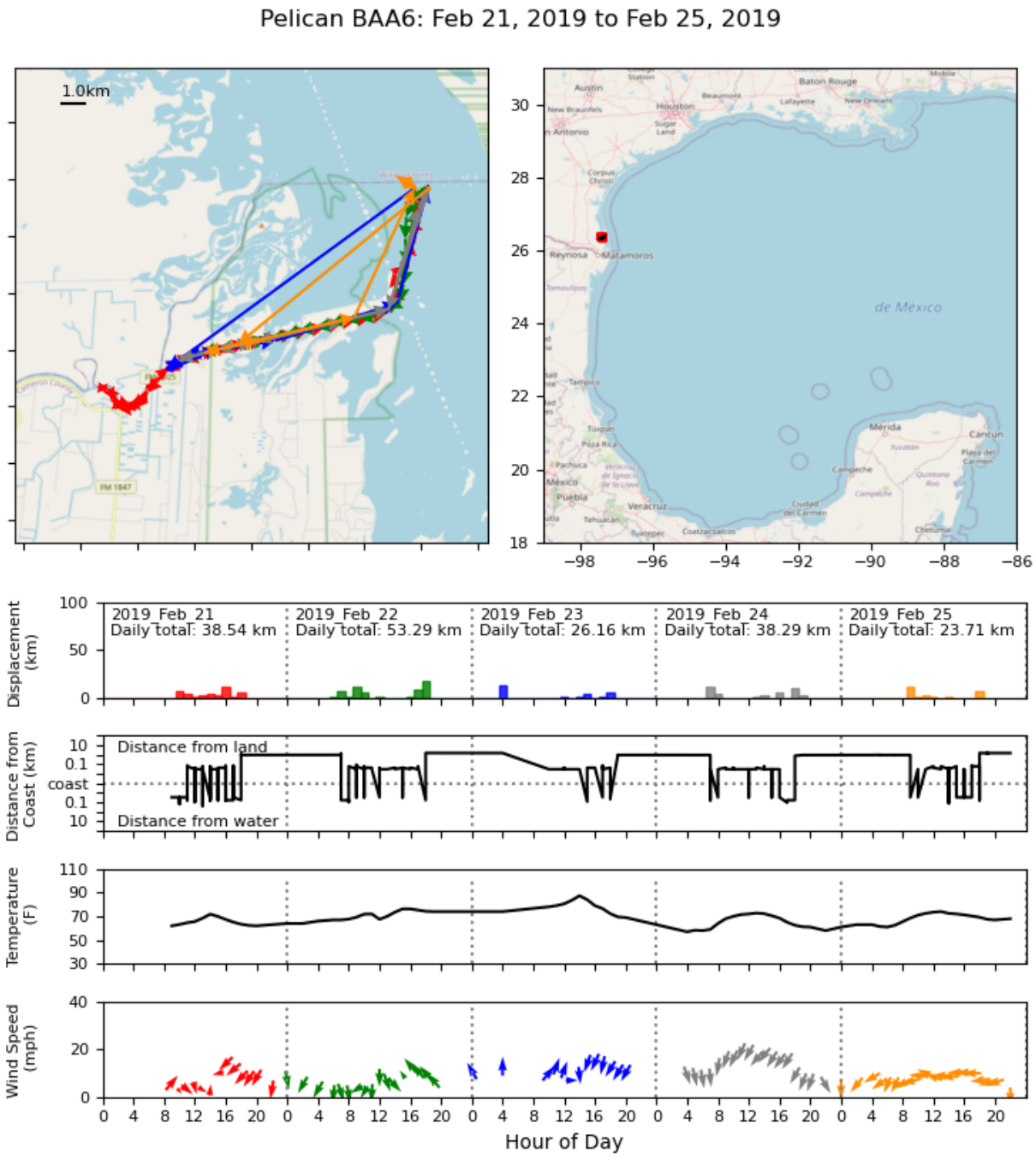

Figure 1349 - Maps and graphs showing movements of BAA6 between 2019-02-21 and 2019-02-24 inclusive.

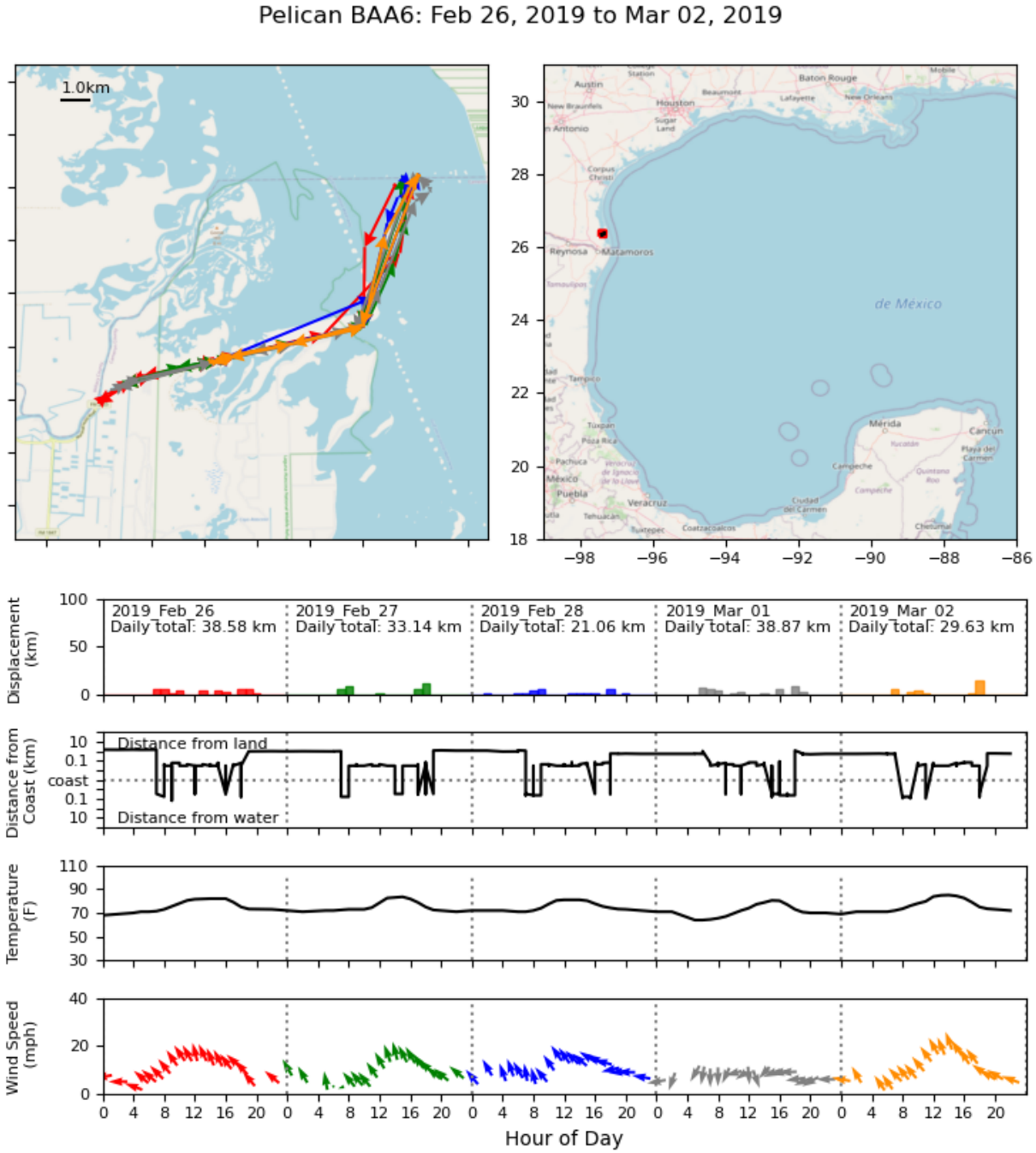

Figure 1350 - Maps and graphs showing movements of BAA6 between 2019-02-26 and 2019-03-01 inclusive.

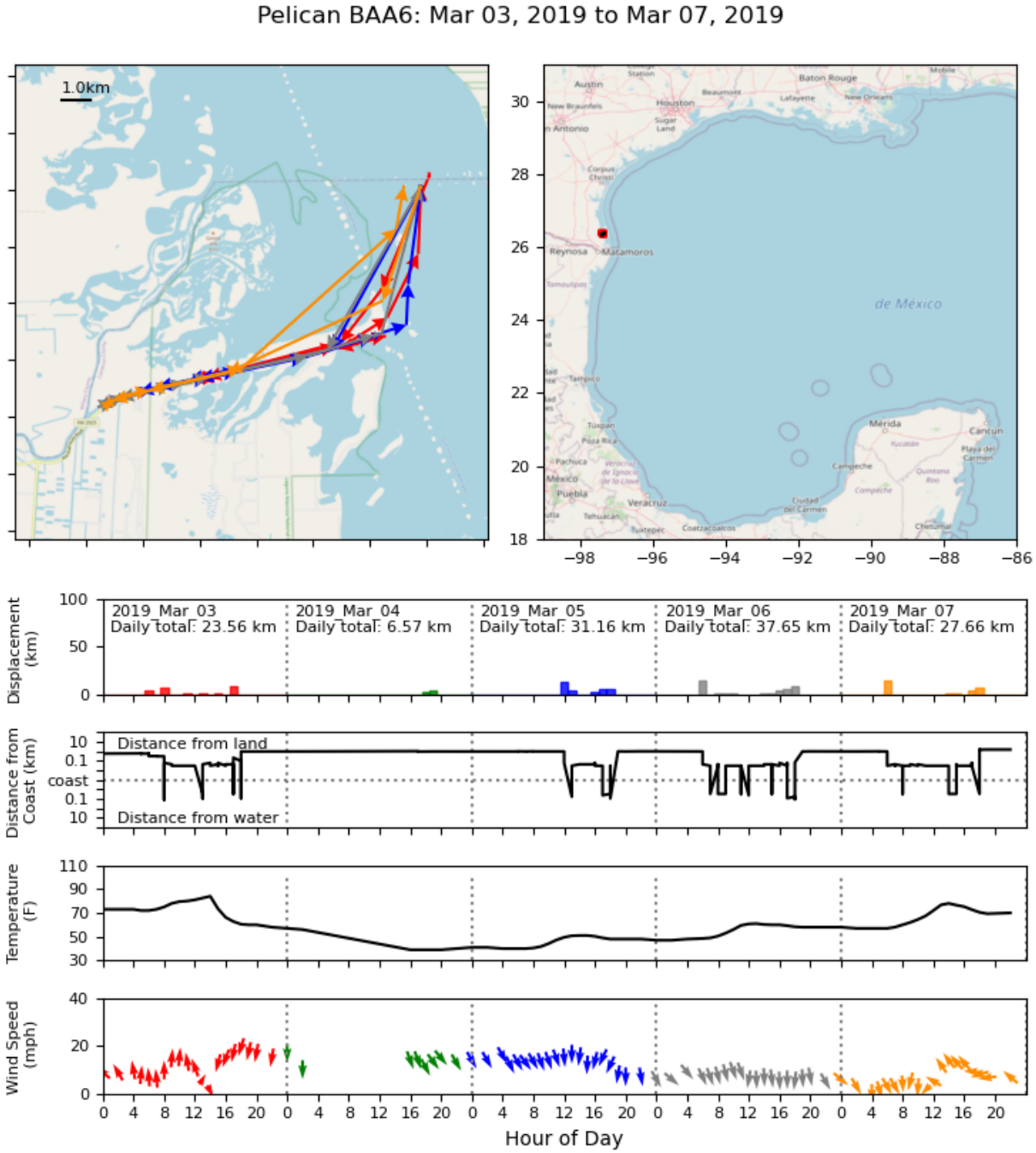

Figure 1351 - Maps and graphs showing movements of BAA6 between 2019-03-03 and 2019-03-06 inclusive.

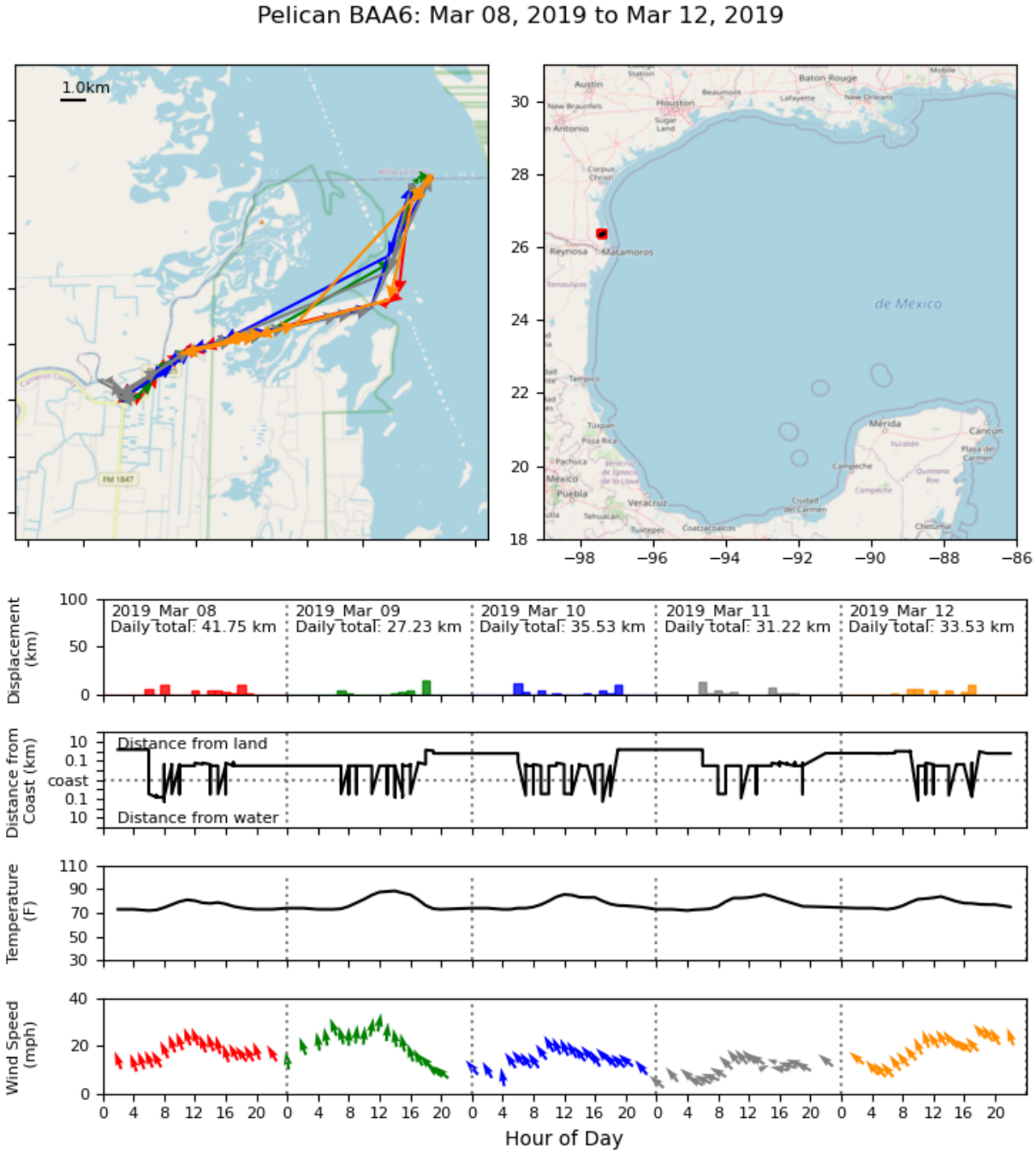

Figure 1352 - Maps and graphs showing movements of BAA6 between 2019-03-08 and 2019-03-11 inclusive.

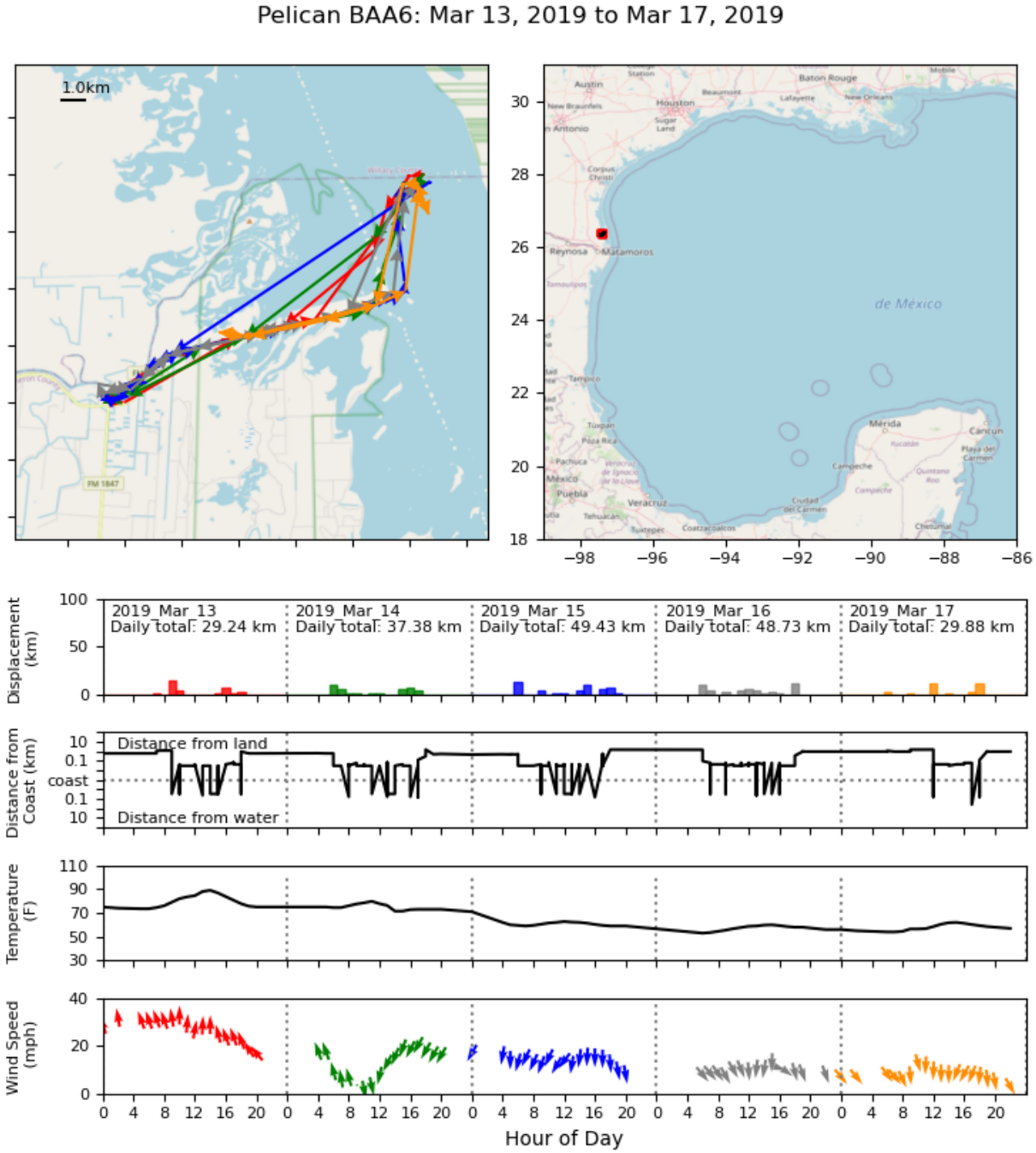

Figure 1353 - Maps and graphs showing movements of BAA6 between 2019-03-13 and 2019-03-16 inclusive.

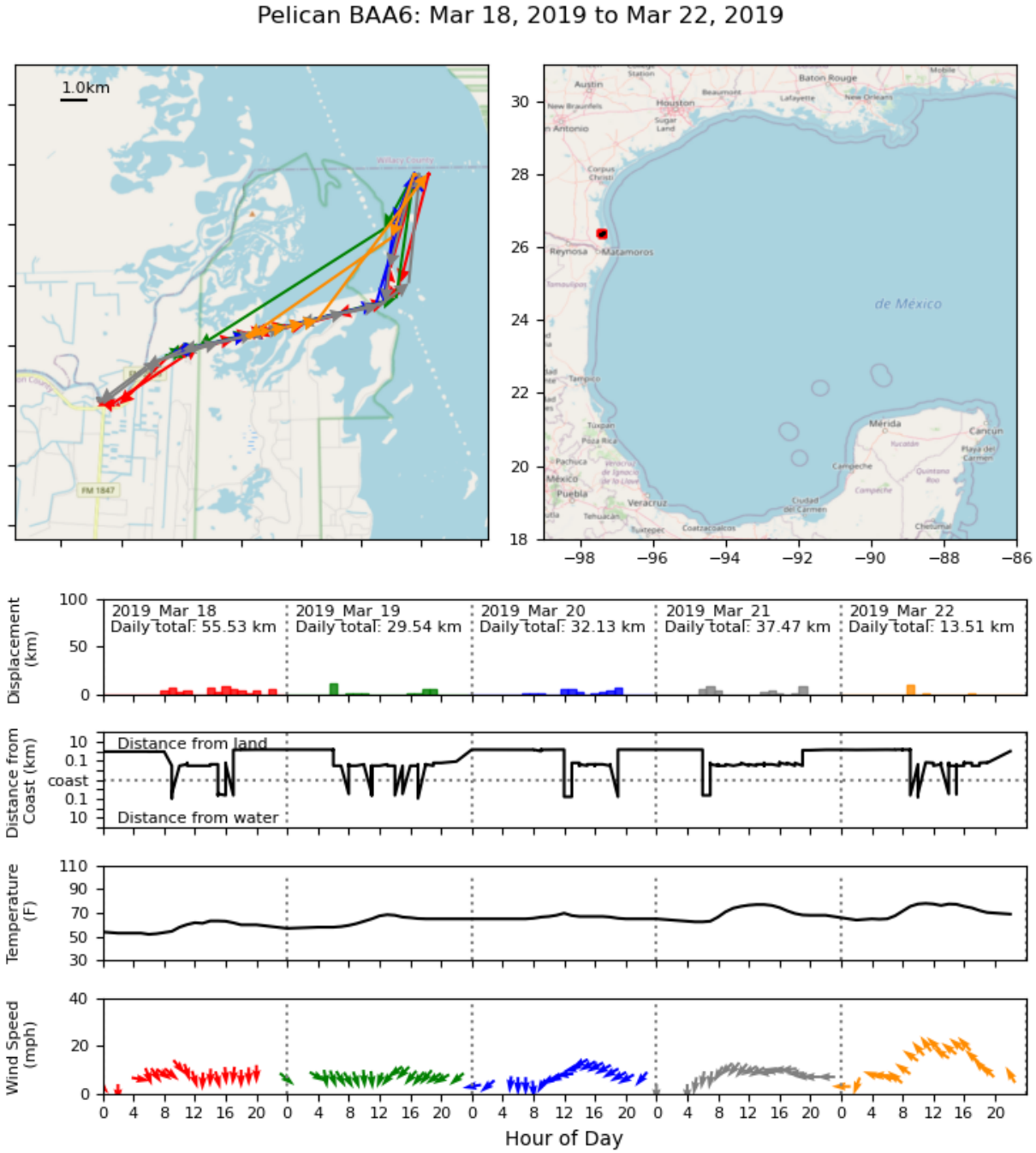

Figure 1354 - Maps and graphs showing movements of BAA6 between 2019-03-18 and 2019-03-21 inclusive.

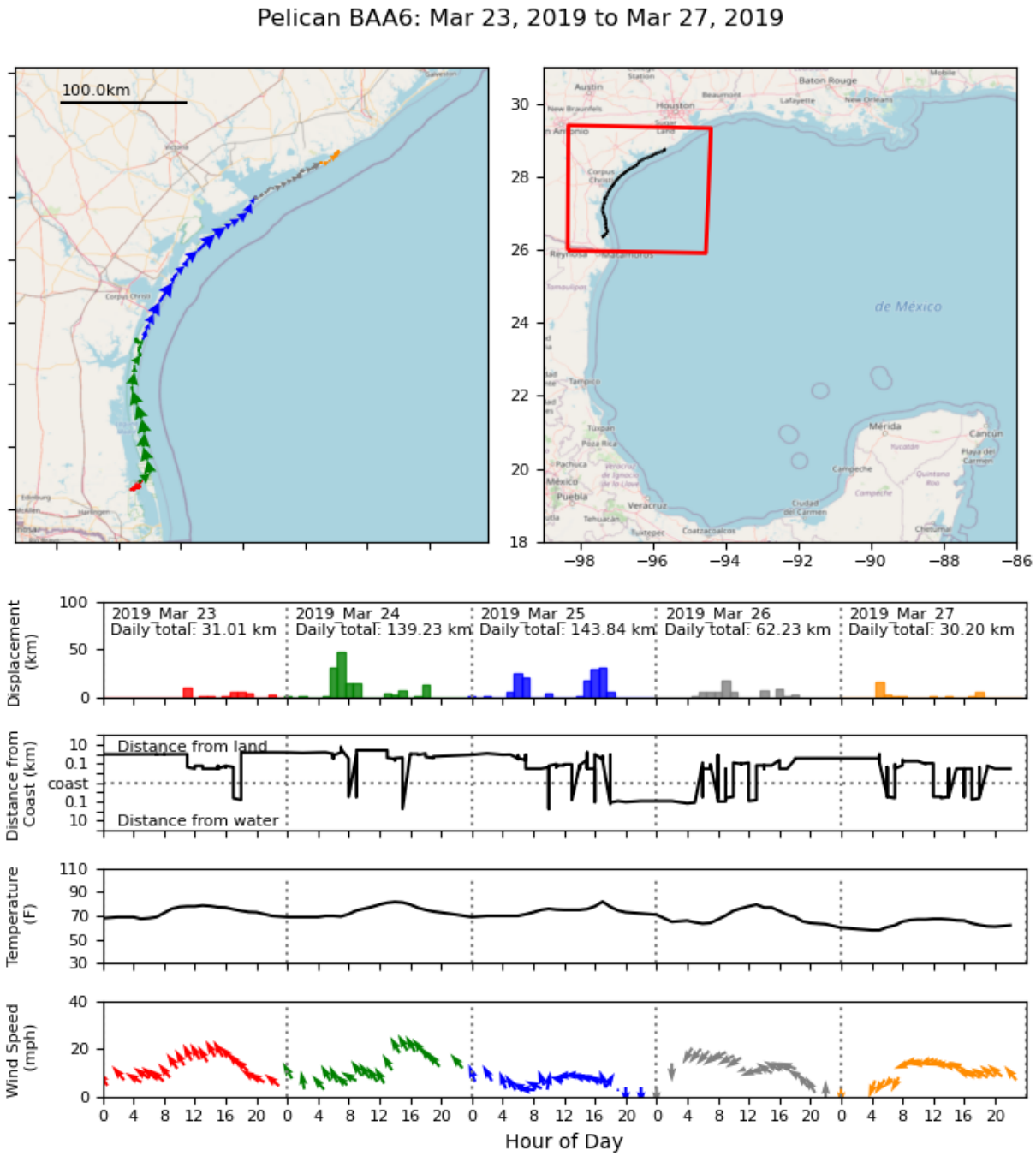

Figure 1355 - Maps and graphs showing movements of BAA6 between 2019-03-23 and 2019-03-26 inclusive.

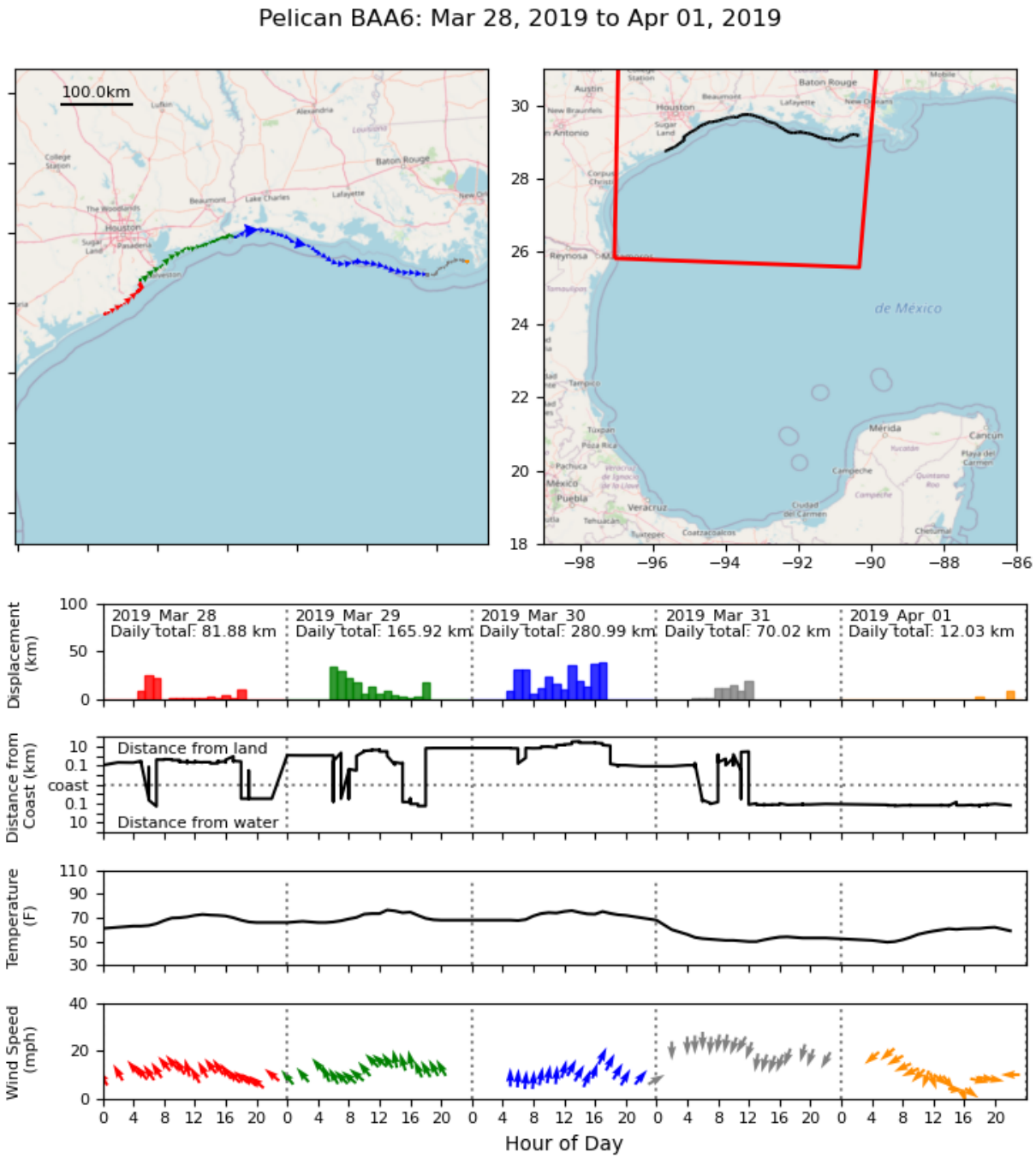

Figure 1356 - Maps and graphs showing movements of BAA6 between 2019-03-28 and 2019-03-31 inclusive.

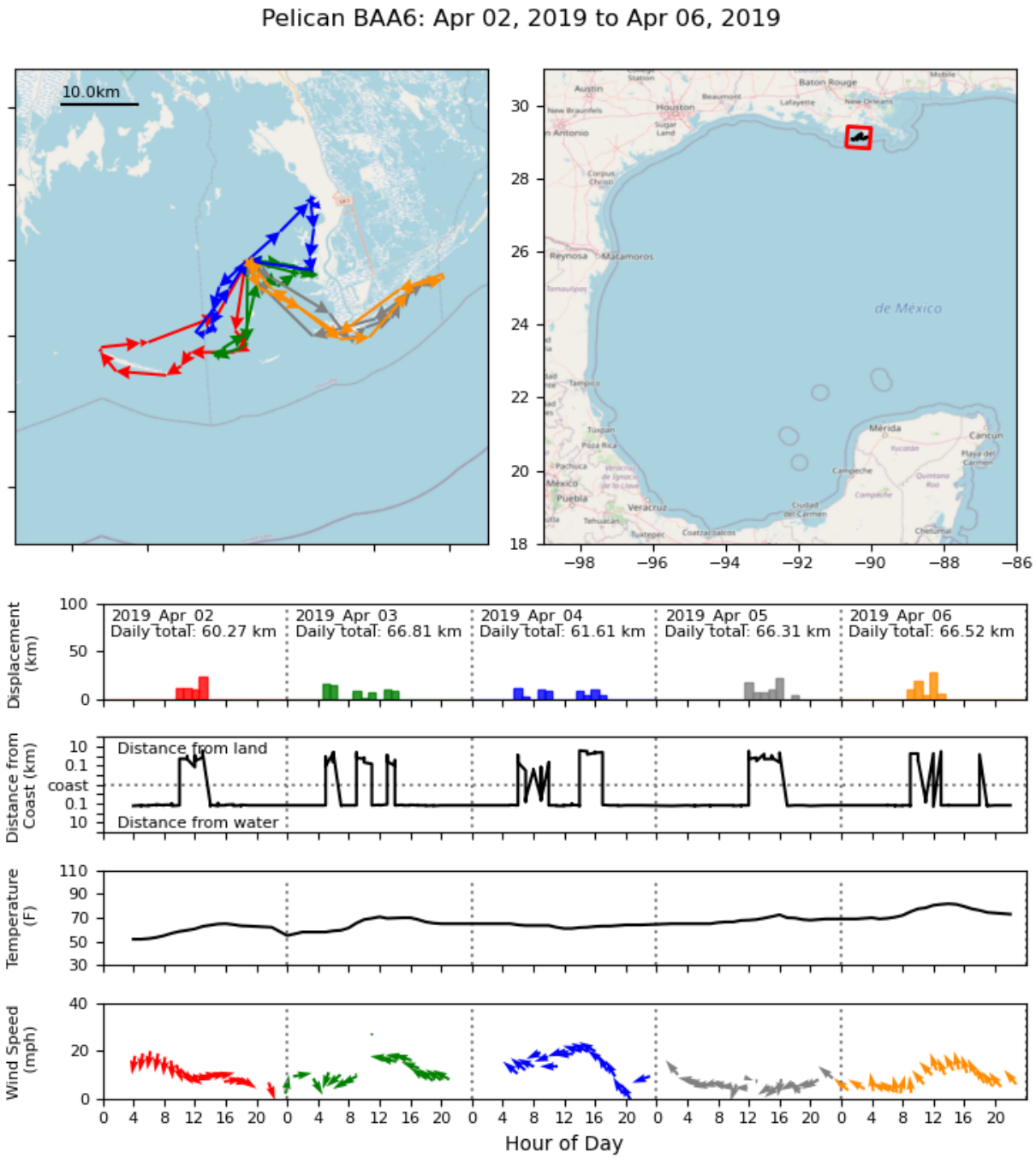

Figure 1357 - Maps and graphs showing movements of BAA6 between 2019-04-02 and 2019-04-05 inclusive.

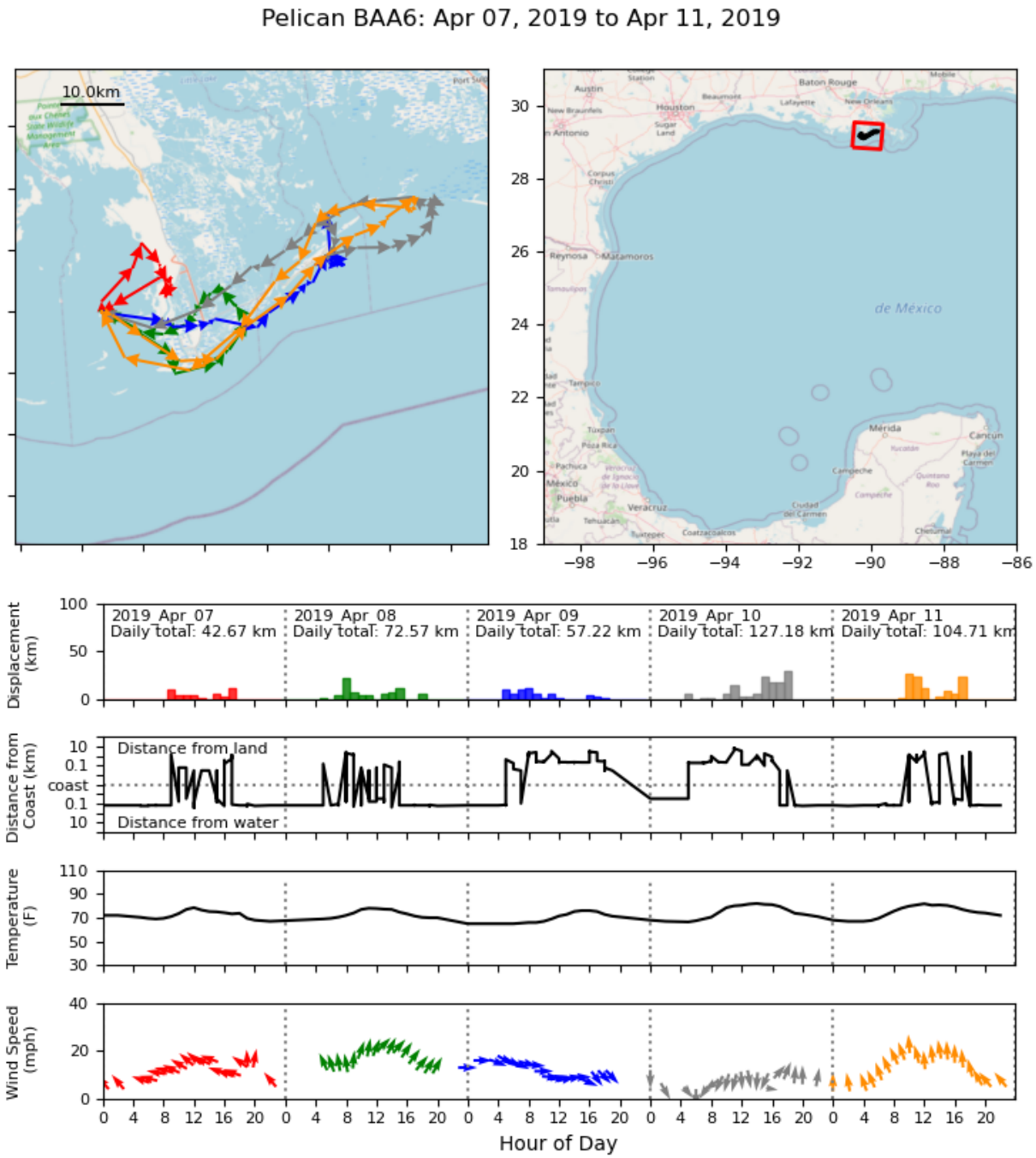

Figure 1358 - Maps and graphs showing movements of BAA6 between 2019-04-07 and 2019-04-10 inclusive.

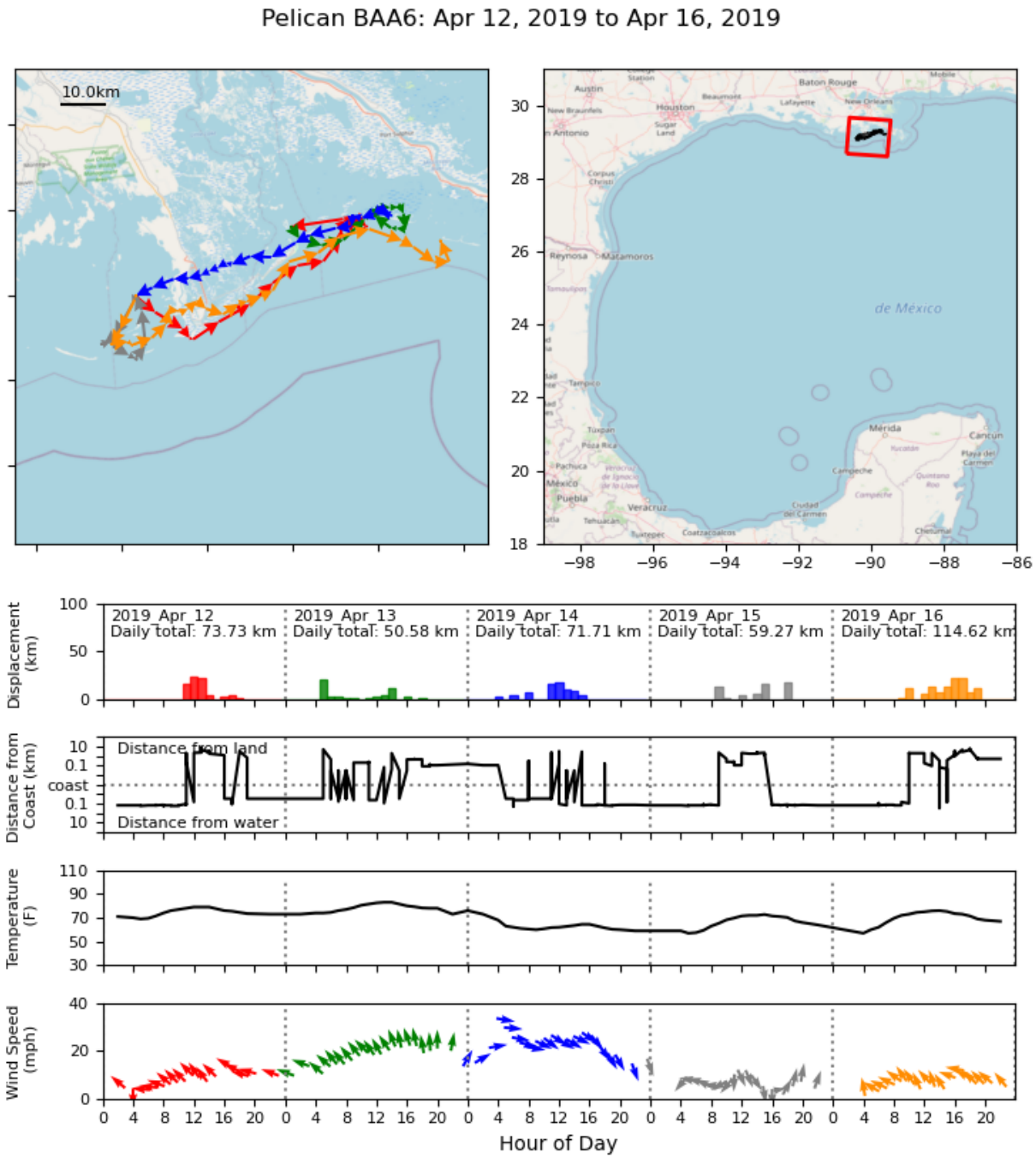

Figure 1359 - Maps and graphs showing movements of BAA6 between 2019-04-12 and 2019-04-15 inclusive.

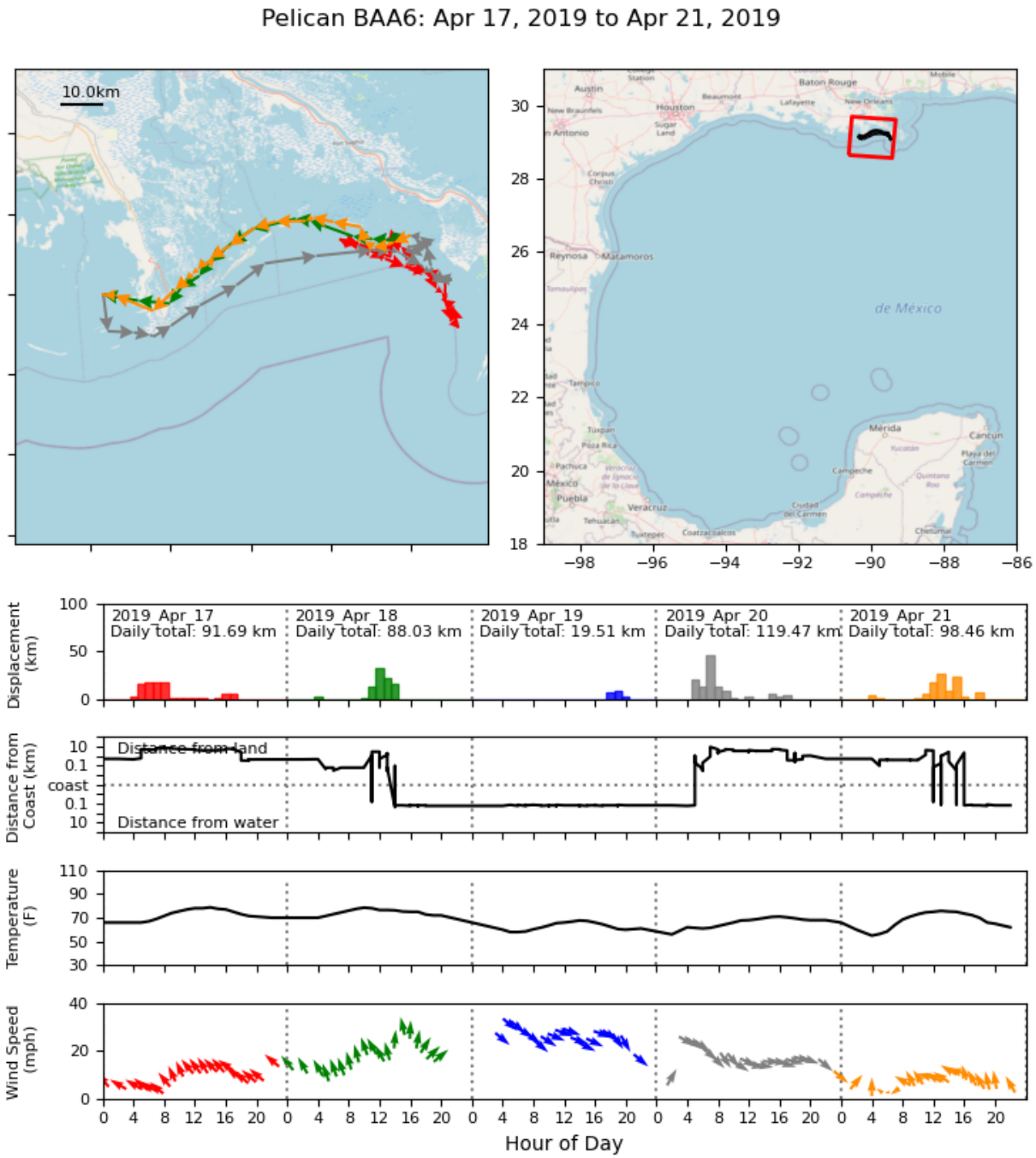

Figure 1360 - Maps and graphs showing movements of BAA6 between 2019-04-17 and 2019-04-20 inclusive.

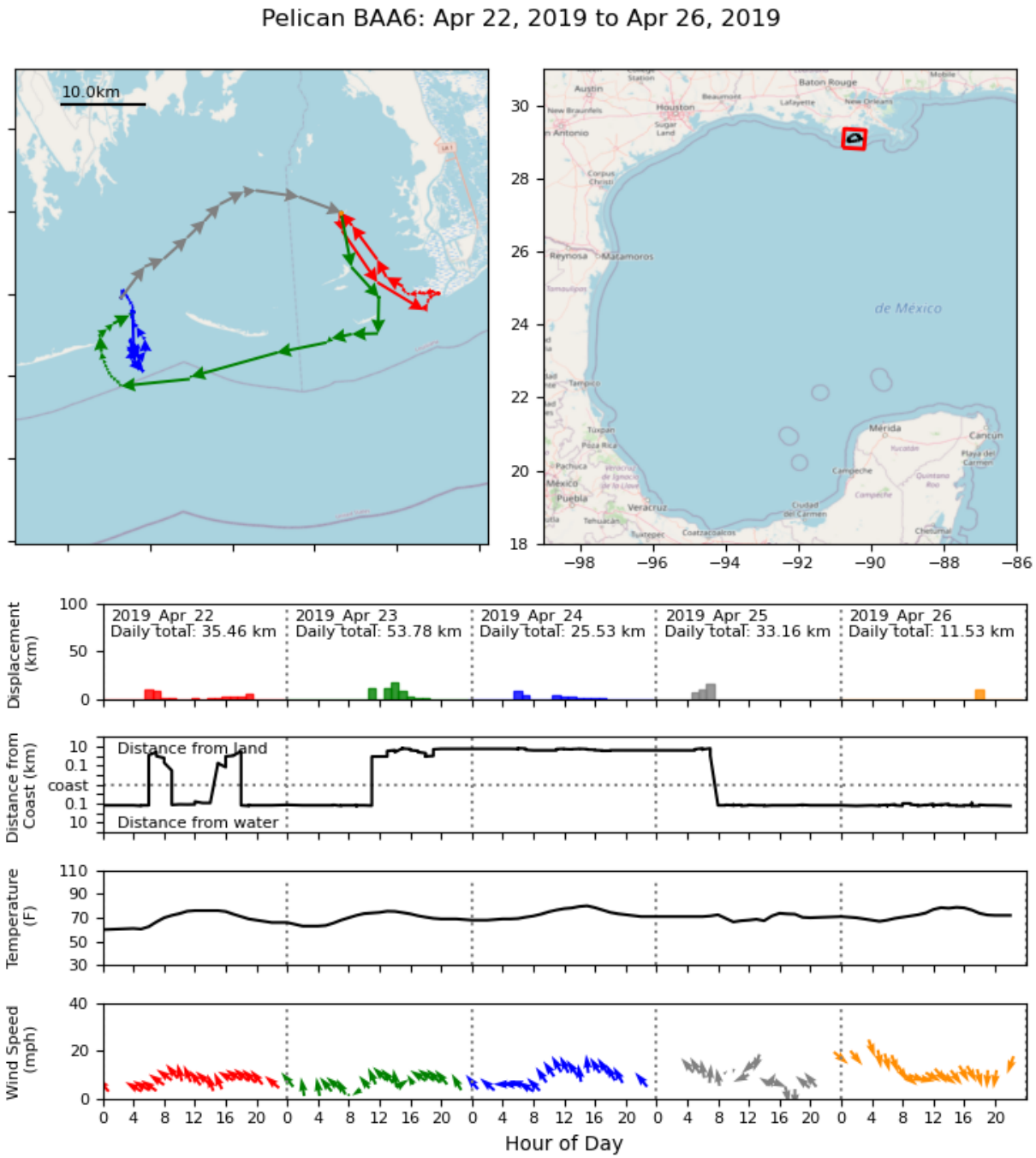

Figure 1361 - Maps and graphs showing movements of BAA6 between 2019-04-22 and 2019-04-25 inclusive.

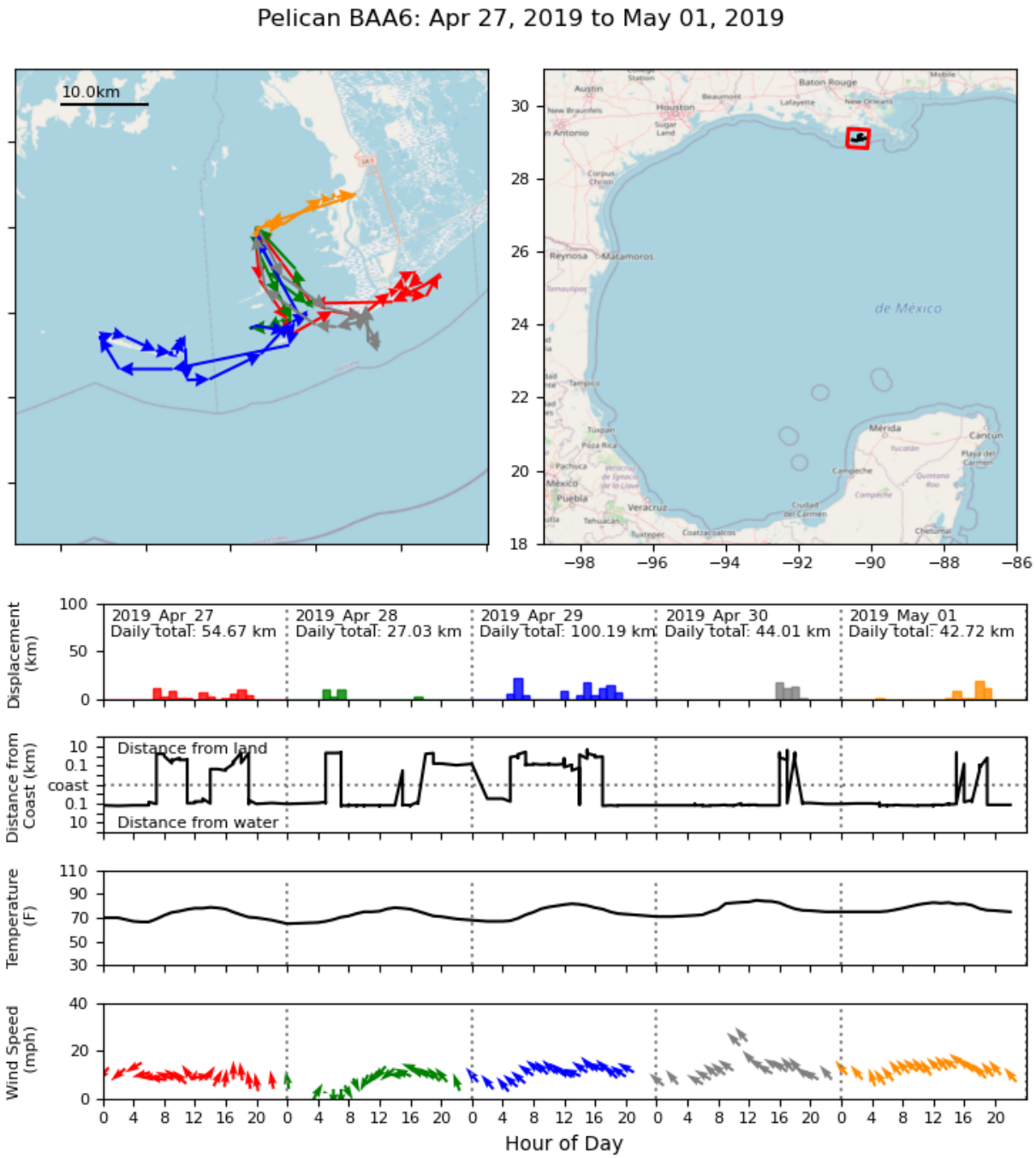

Figure 1362 - Maps and graphs showing movements of BAA6 between 2019-04-27 and 2019-04-30 inclusive.

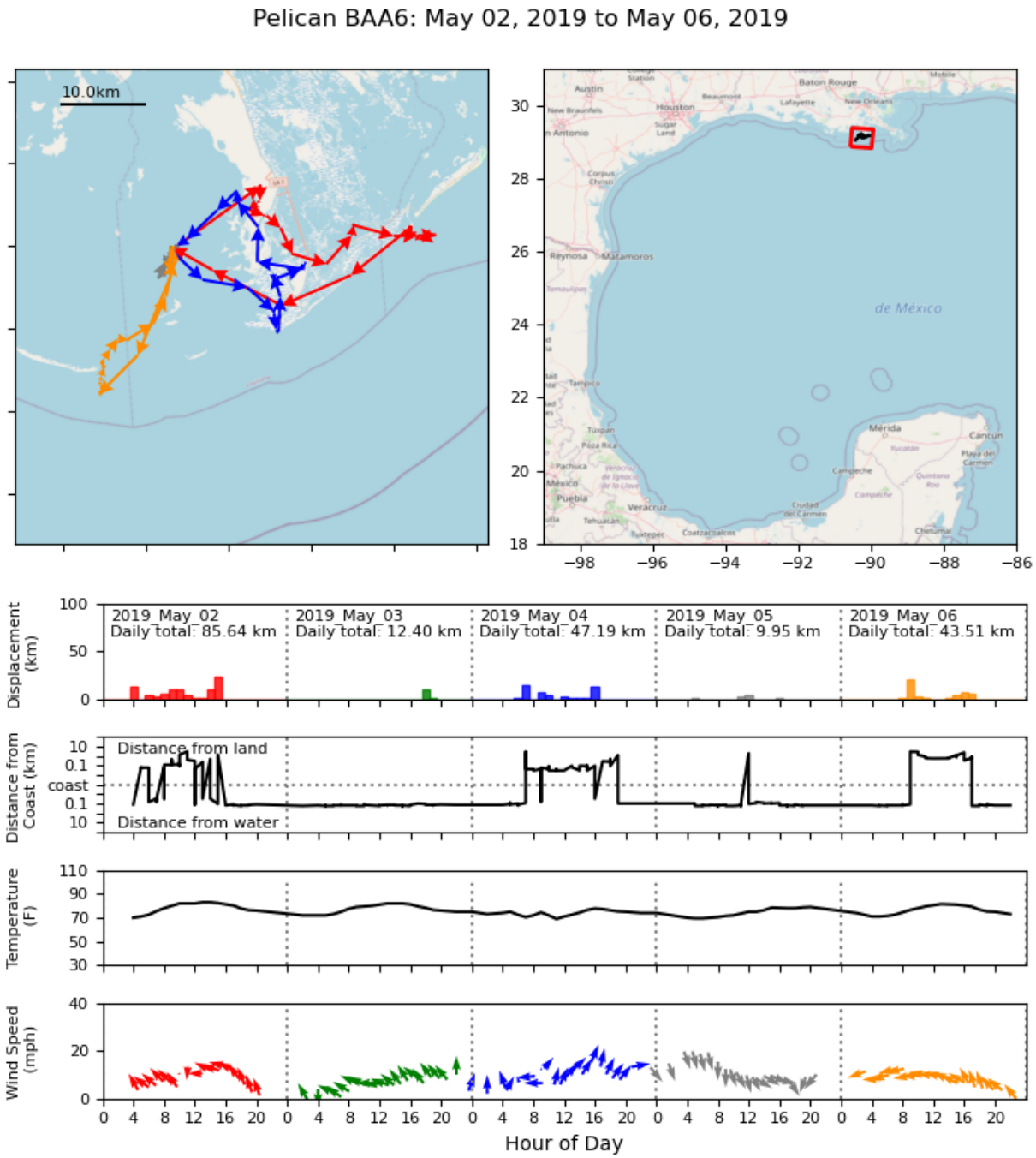

Figure 1363 - Maps and graphs showing movements of BAA6 between 2019-05-02 and 2019-05-05 inclusive.

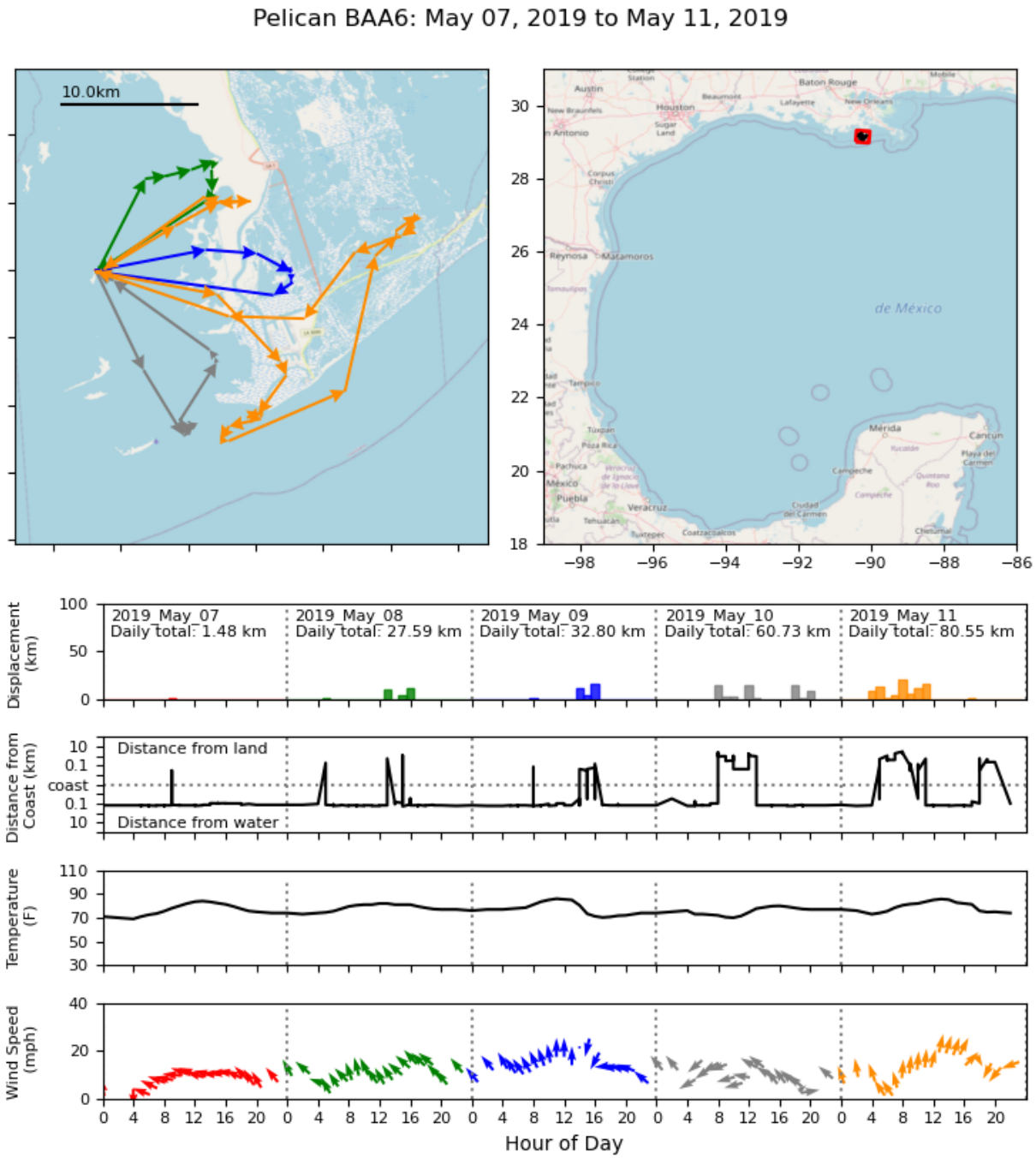

Figure 1364 - Maps and graphs showing movements of BAA6 between 2019-05-07 and 2019-05-10 inclusive.

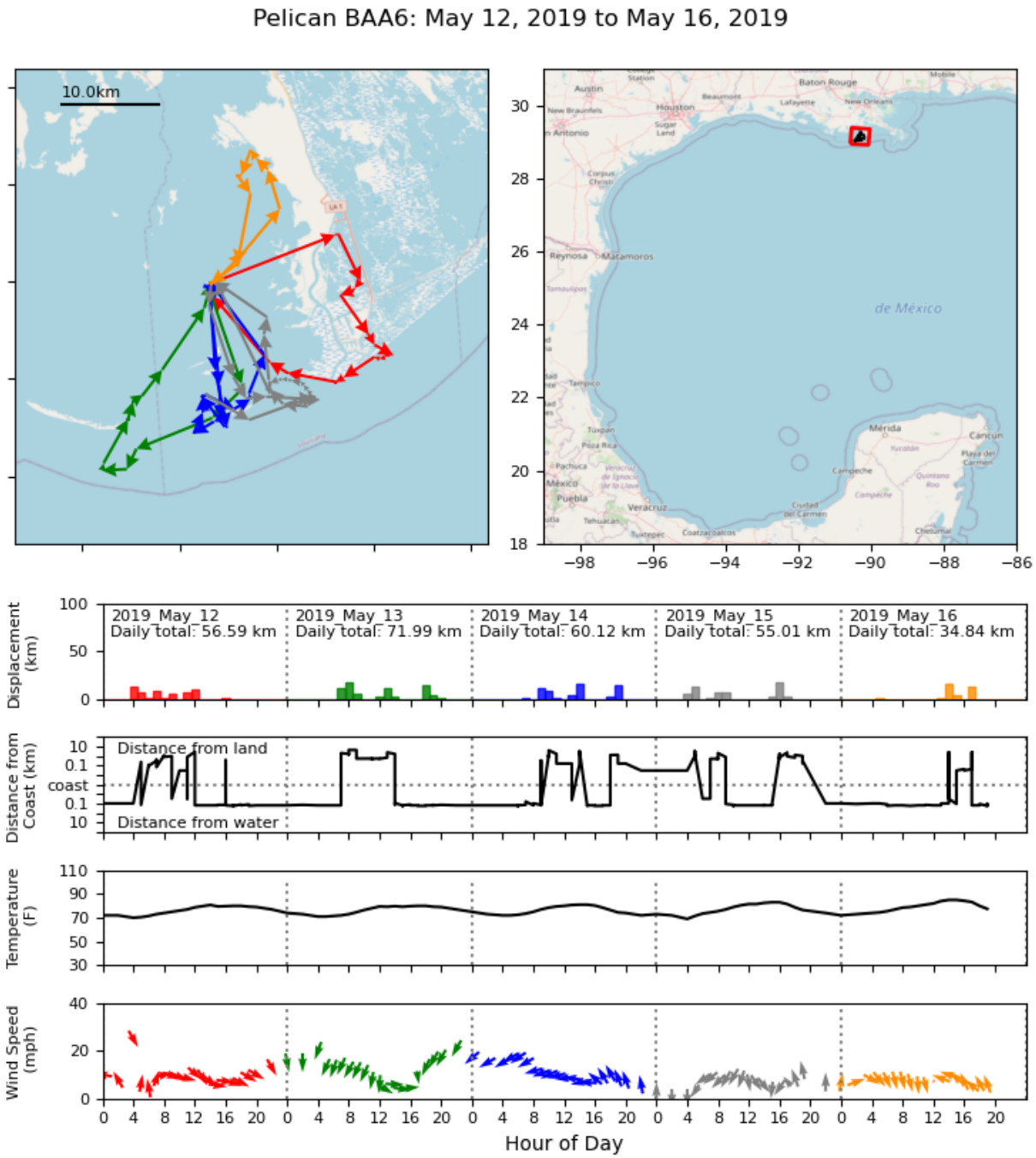

Figure 1365 - Maps and graphs showing movements of BAA6 between 2019-05-12 and 2019-05-15 inclusive.

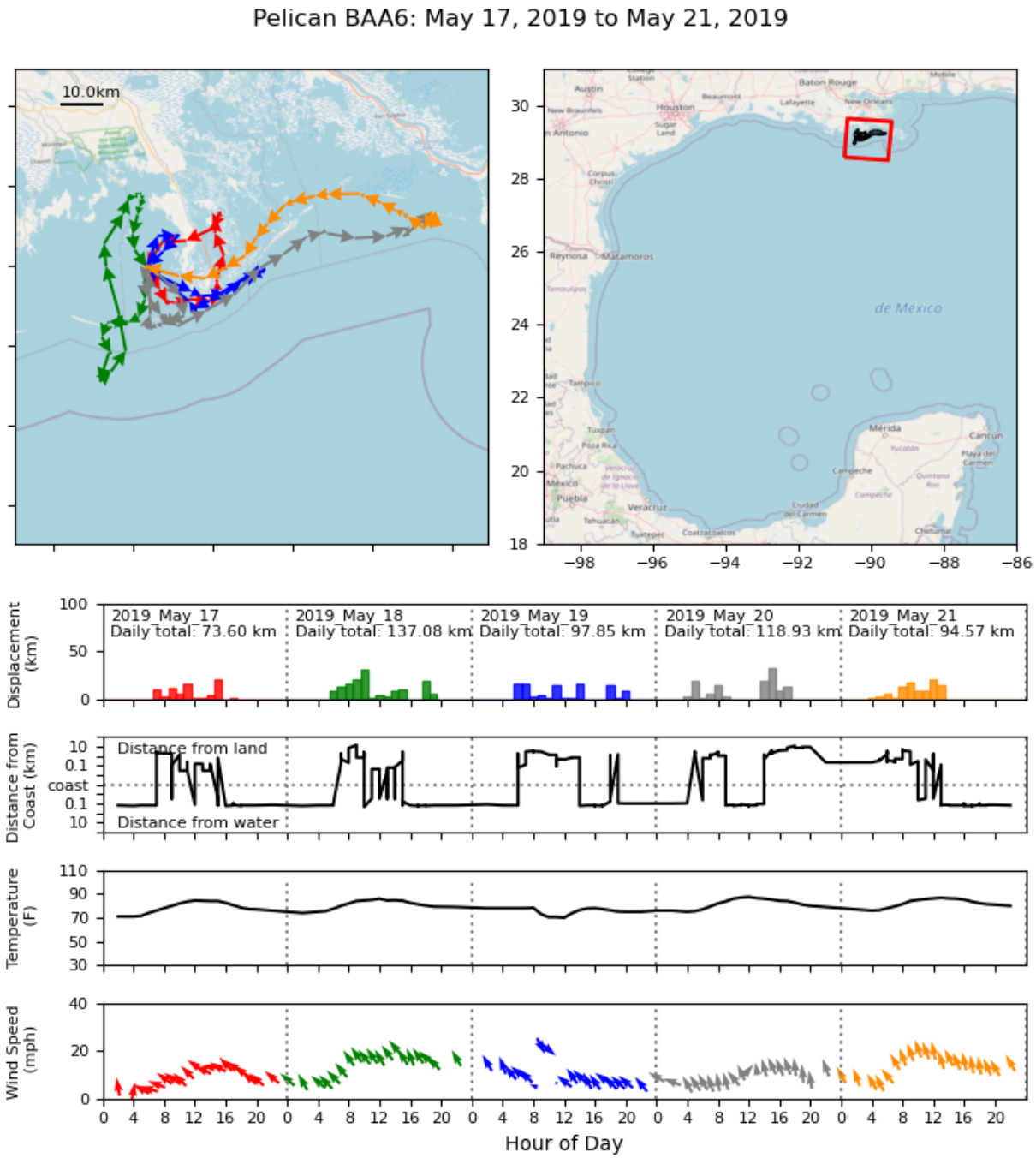

Figure 1366 - Maps and graphs showing movements of BAA6 between 2019-05-17 and 2019-05-20 inclusive.

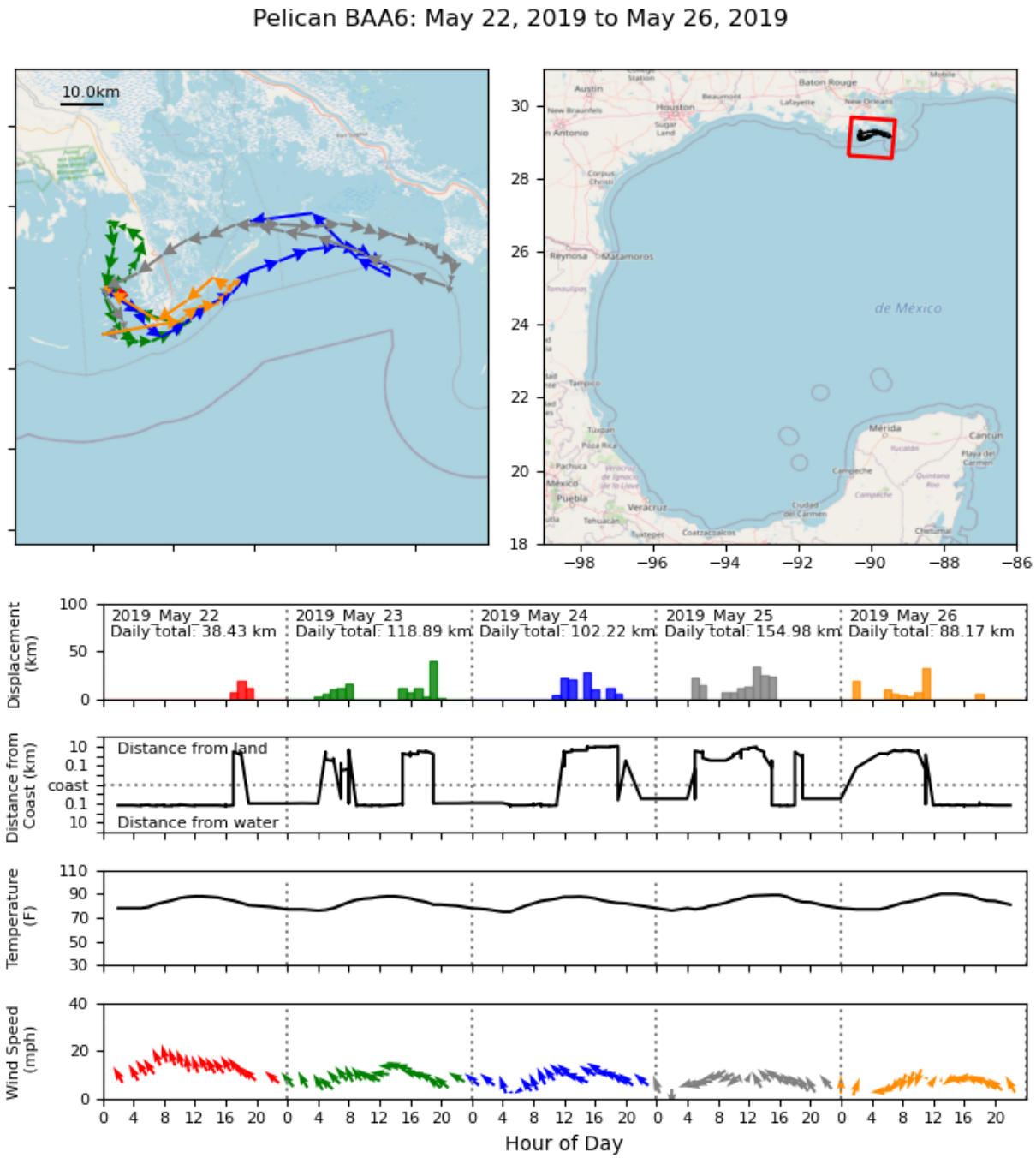

Figure 1367 - Maps and graphs showing movements of BAA6 between 2019-05-22 and 2019-05-25 inclusive.

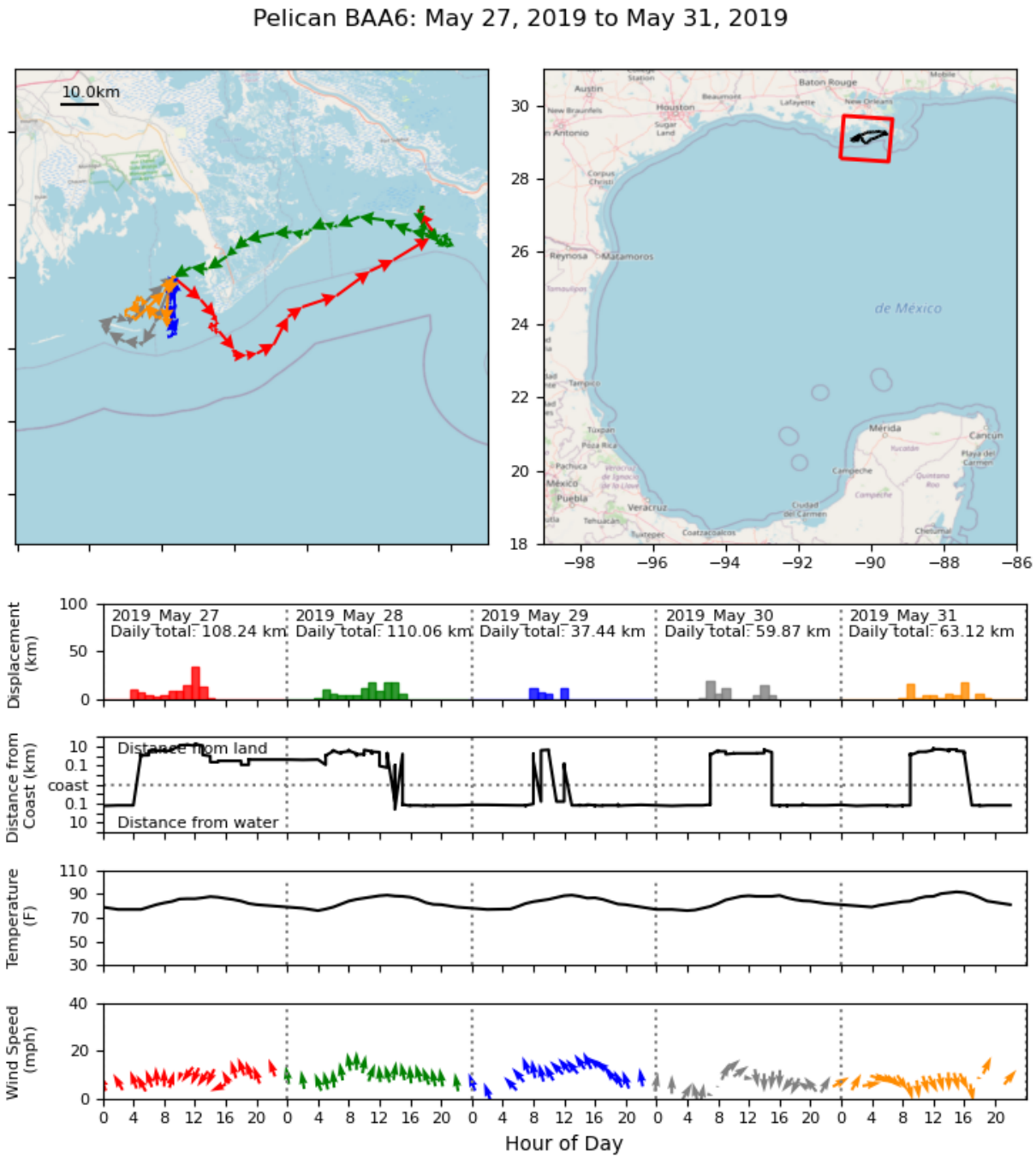

Figure 1368 - Maps and graphs showing movements of BAA6 between 2019-05-27 and 2019-05-30 inclusive.

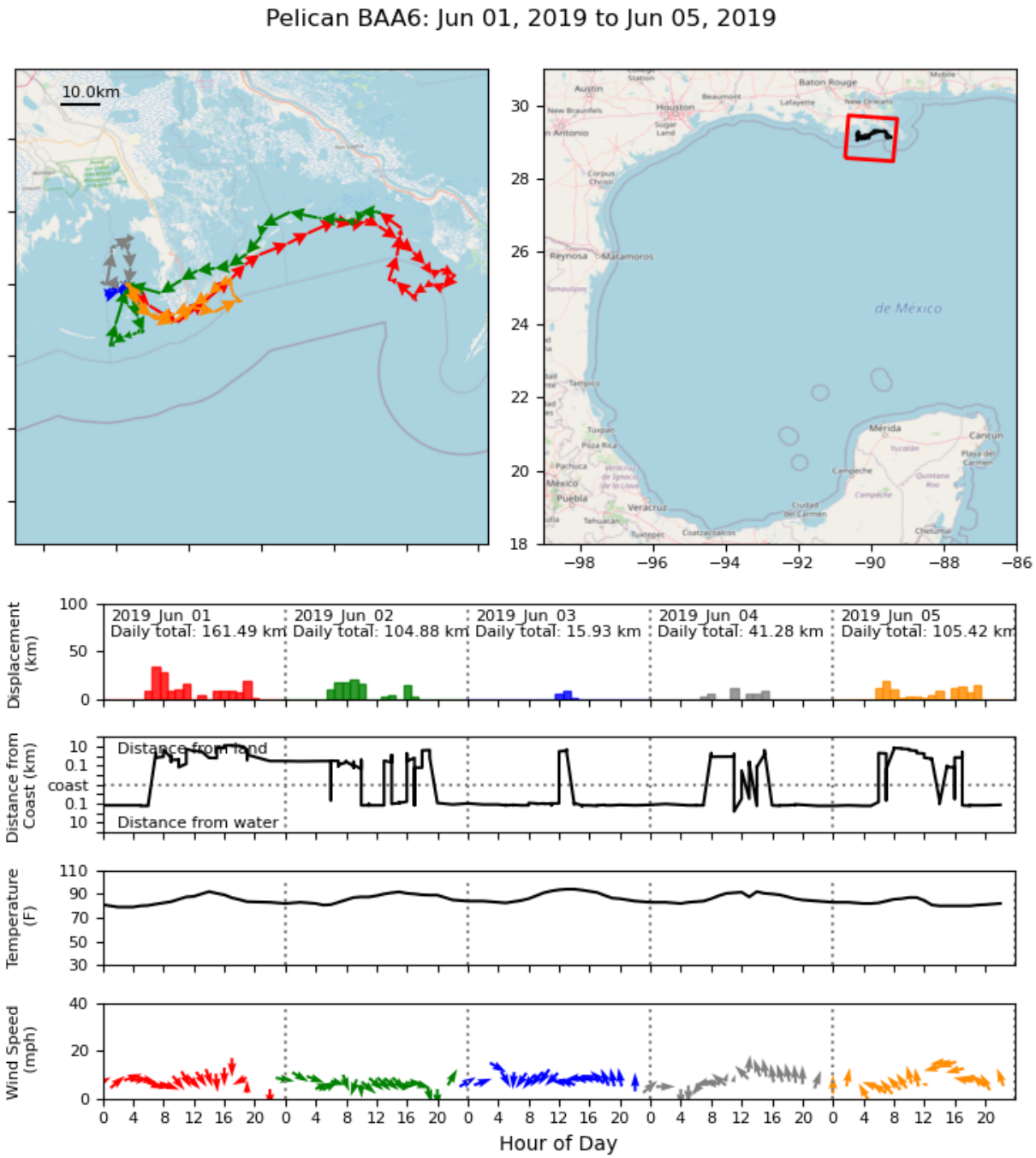

Figure 1369 - Maps and graphs showing movements of BAA6 between 2019-06-01 and 2019-06-04 inclusive.