EXPERIMENTAL MARINE POLLUTION SURVEILLANCE REPORT

Analysis Provided by: The National Oceanic and Atmospheric Administration/National Environmental Satellite, Data and Information Service (NOAA/NESDIS)

REPORT DATE: MAY 12, 2010
REPORT TIME: 0145Z (2045 CDT)
ANALYST: LIDDICK

DATA SOURCE: COSMO SKYMED
MODE: SCANSAR, VV
RESOLUTION: 30 METER
IMAGE DATE/TIME: 05/11/2010 2357Z (1857 CDT)

Legend

Anomaly

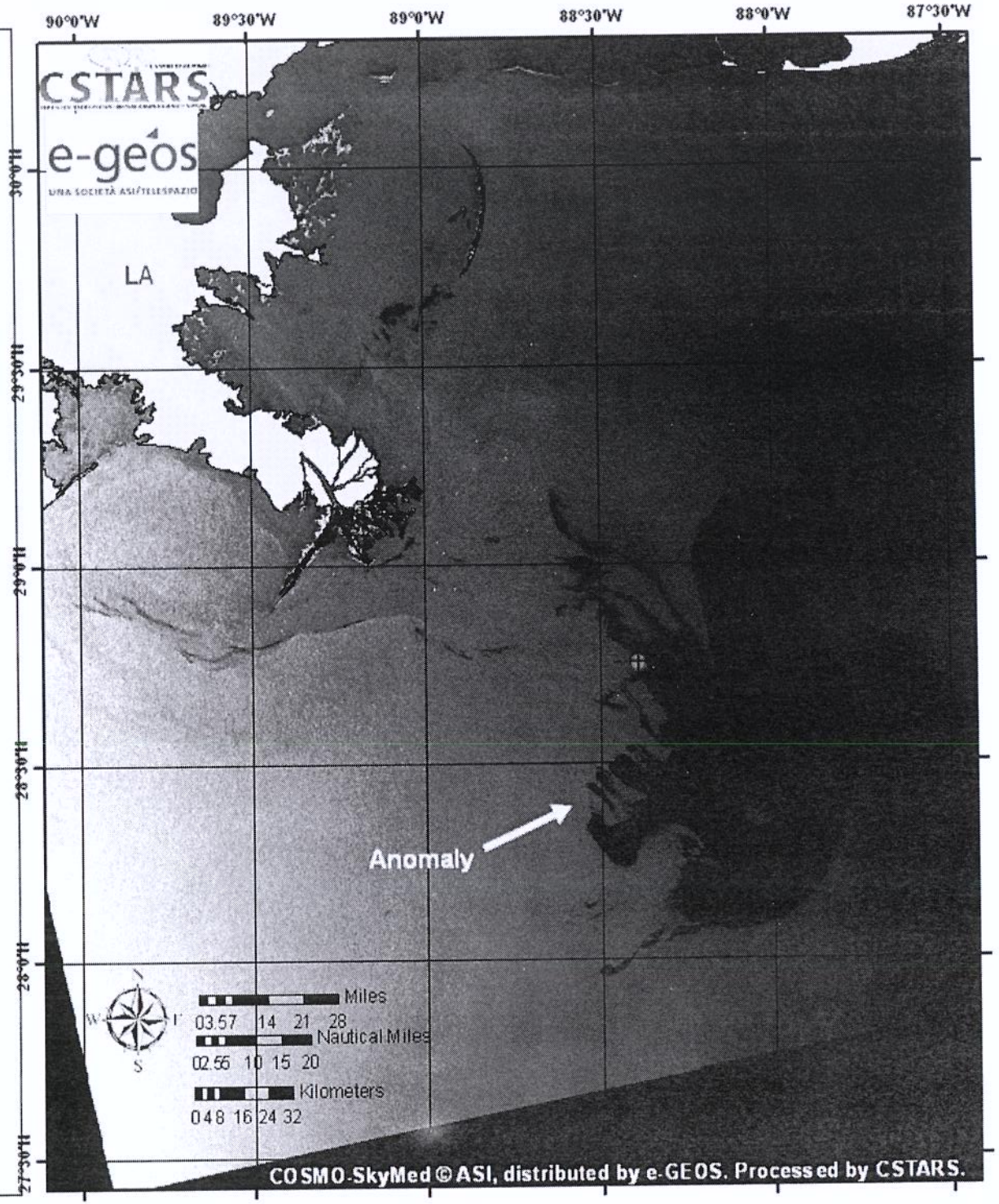
Location of Deepwater Horizon Platform: [28°44'12" N / 88°23'14" W]

NA km² — Estimated Area of Anomaly

REMARKS:

LARGE ANOMALY LOCATED NEAR THE DEEPWATER HORIZON SITE WITH SMALLER SLICKS LOCATED CLOSER TO THE COAST AND NEAR THE CHANDELEUR ISLANDS. LONGER STREAKS NOTED NEAR THE GARDEN ISLAND AND REDFIST BAYS AS WELL AS THE EAST BAY IN SOUTHEAST LA.

This is an experimental product of the Satellite Analysis Branch and not operationally maintained. We will do our best to make it available in a timely manner.



EXPERIMENTAL MARINE POLLUTION SURVEILLANCE REPORT

Analysis Provided by: The National Oceanic and Atmospheric Administration/National Environmental Satellite, Data and Information Service (NOAA/NESDIS)

REPORT DATE: May 12, 2010
REPORT TIME: 2120Z (1620 CDT)
ANALYST: EVANS

DATA SOURCE: ESA ENVISAT ASAR VV © ESA 2010
MODE: WIDE SWATH
RESOLUTION: 150 Meters
IMAGE DATE/TIME: 05/12/2010 1555Z (1055 CDT)

Legend

Anomaly

Location of Deepwater Horizon Platform: [28°44'12" N / 88°23'14" W]

N/A Estimated Area of Anomaly

REMARKS:

Main oil slick is currently to the east of the Deepwater Horizon oil spill site, however numerous oil slicks are present to the west of the Chandeleur Islands. Also, smaller oil slicks can be seen in and around Timbalier Bay and Terrebonne Bay. Oil can be seen as far west as roughly 30 miles south of Caillou Bay. This image does not extend any further west so there is a possibility of oil being west of 91° W.

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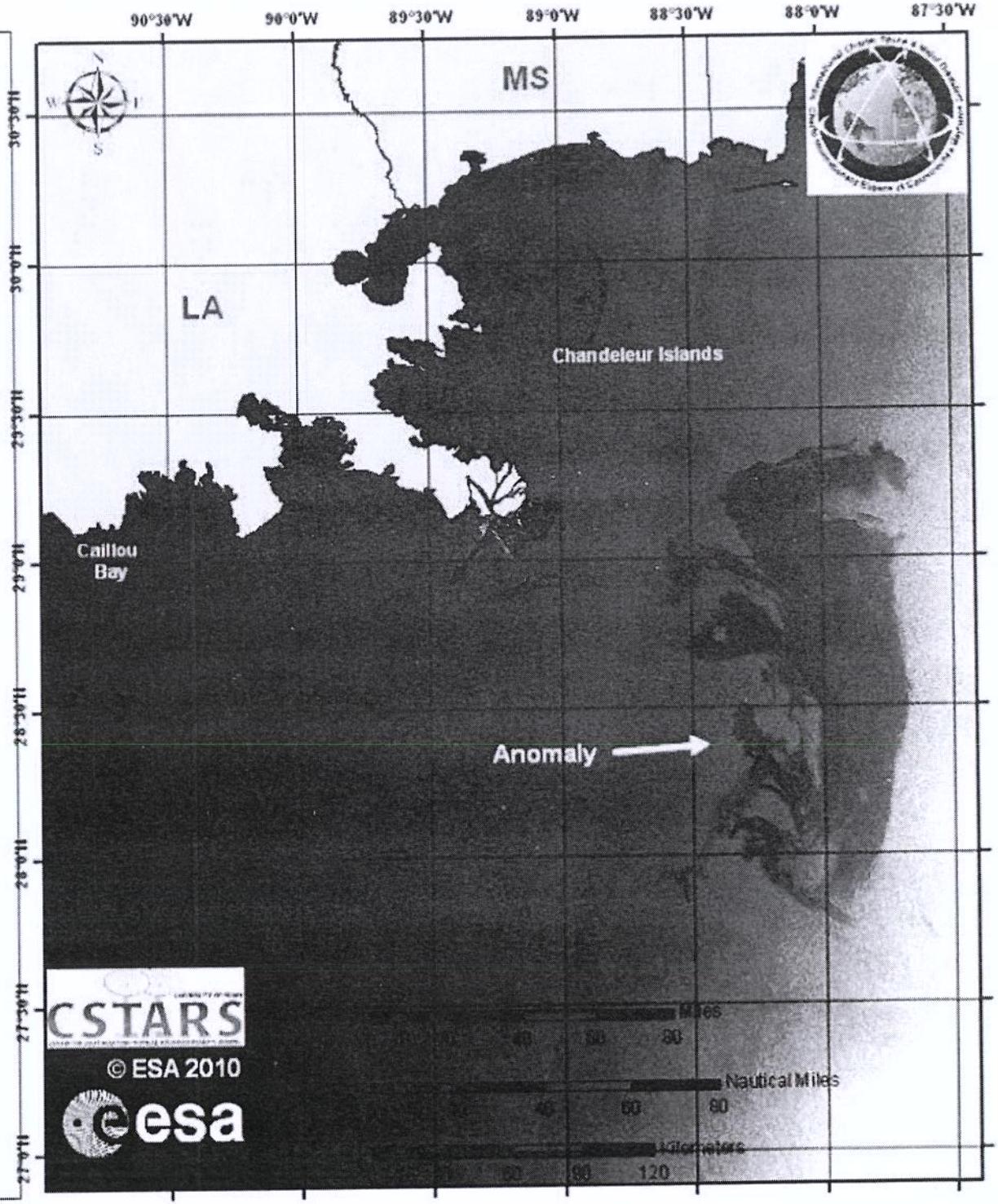
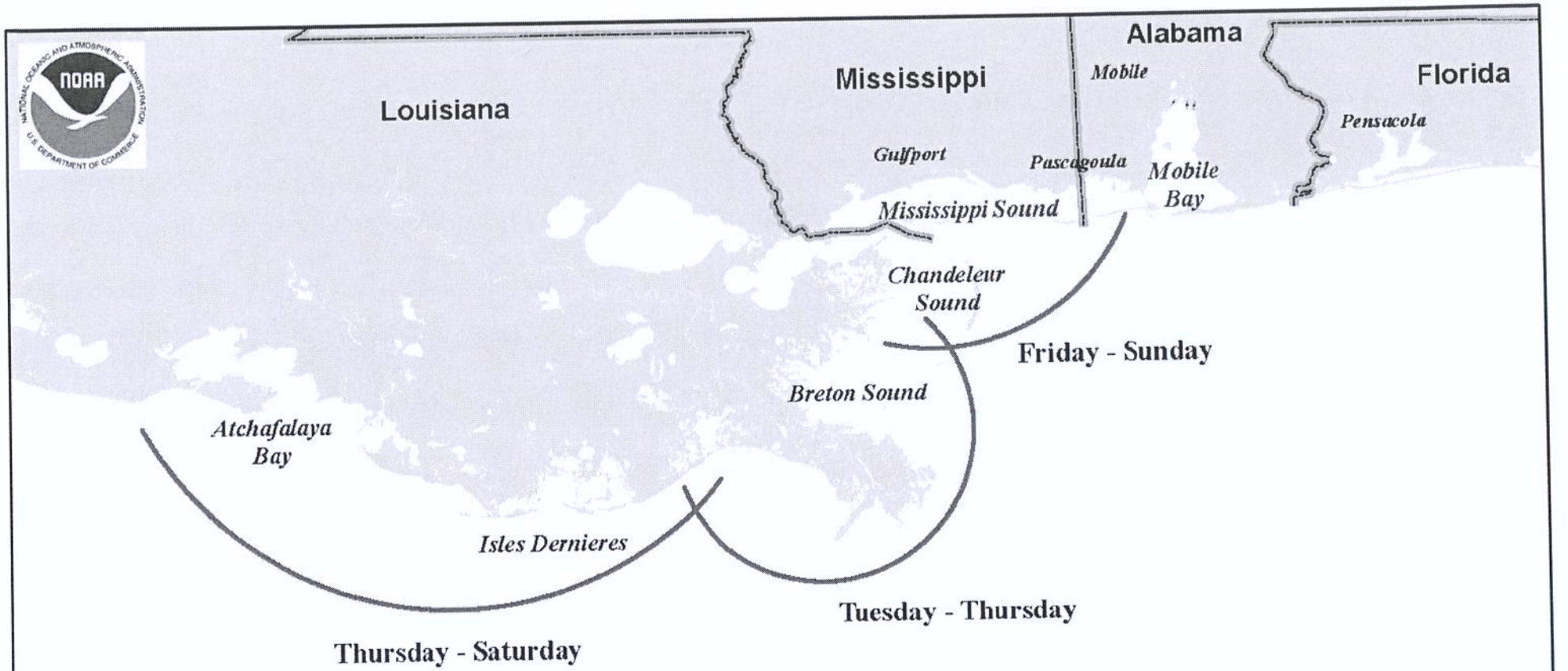




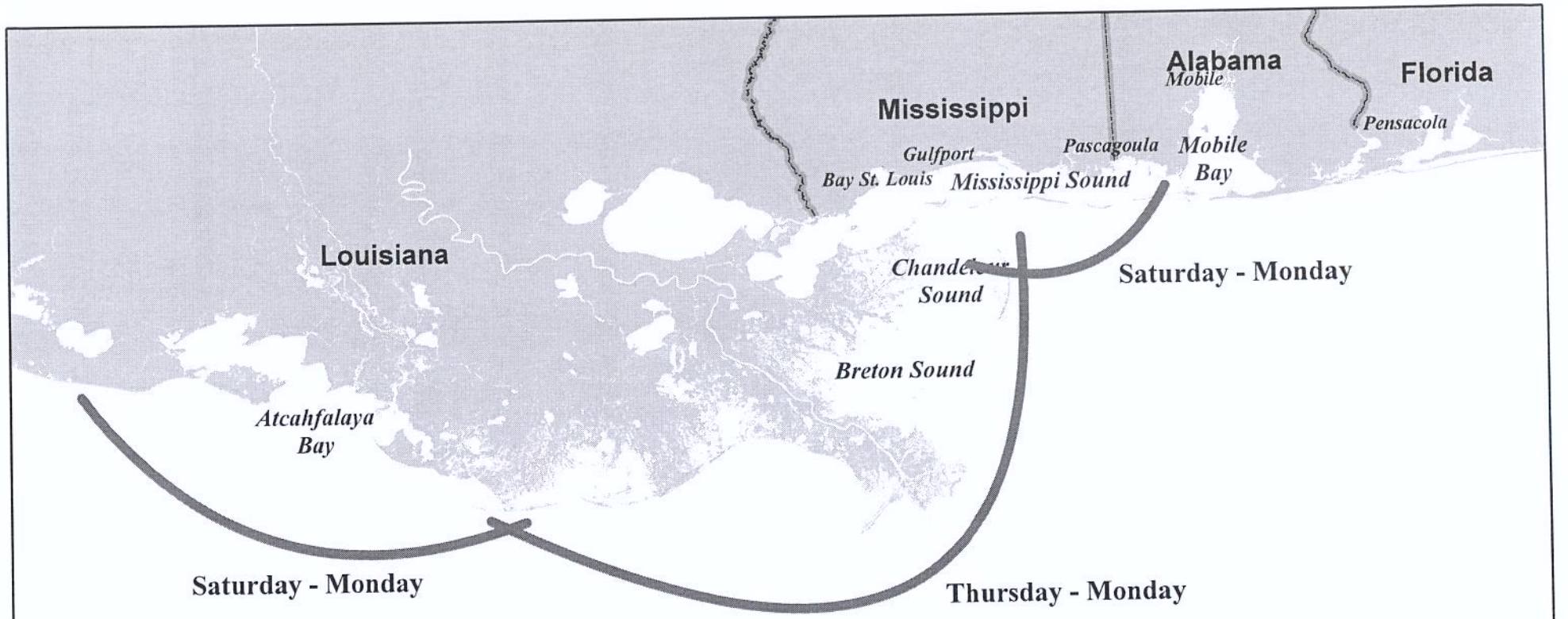
Shoreline Impact Outlook

Prepared Tuesday May 11, 2010

This map delineates threatened shorelines for the period of May 12th - May 15th 2010. With the expected winds from the SE for the rest of the week, we expect oil to be driven into the Delta, Breton Sound, and Chandelier Sound for the rest of the week. If the patches of oil to the west persist, it could result in tarball impacts from Timbalier Bay to Achafalya Bay. Scattered tarballs which are not observable from reconnaissance overlights may impact shoreline ahead of the indicated dates.

0 30 60 120
Miles

FOR INTERNAL USE ONLY



Shoreline Impact Outlook

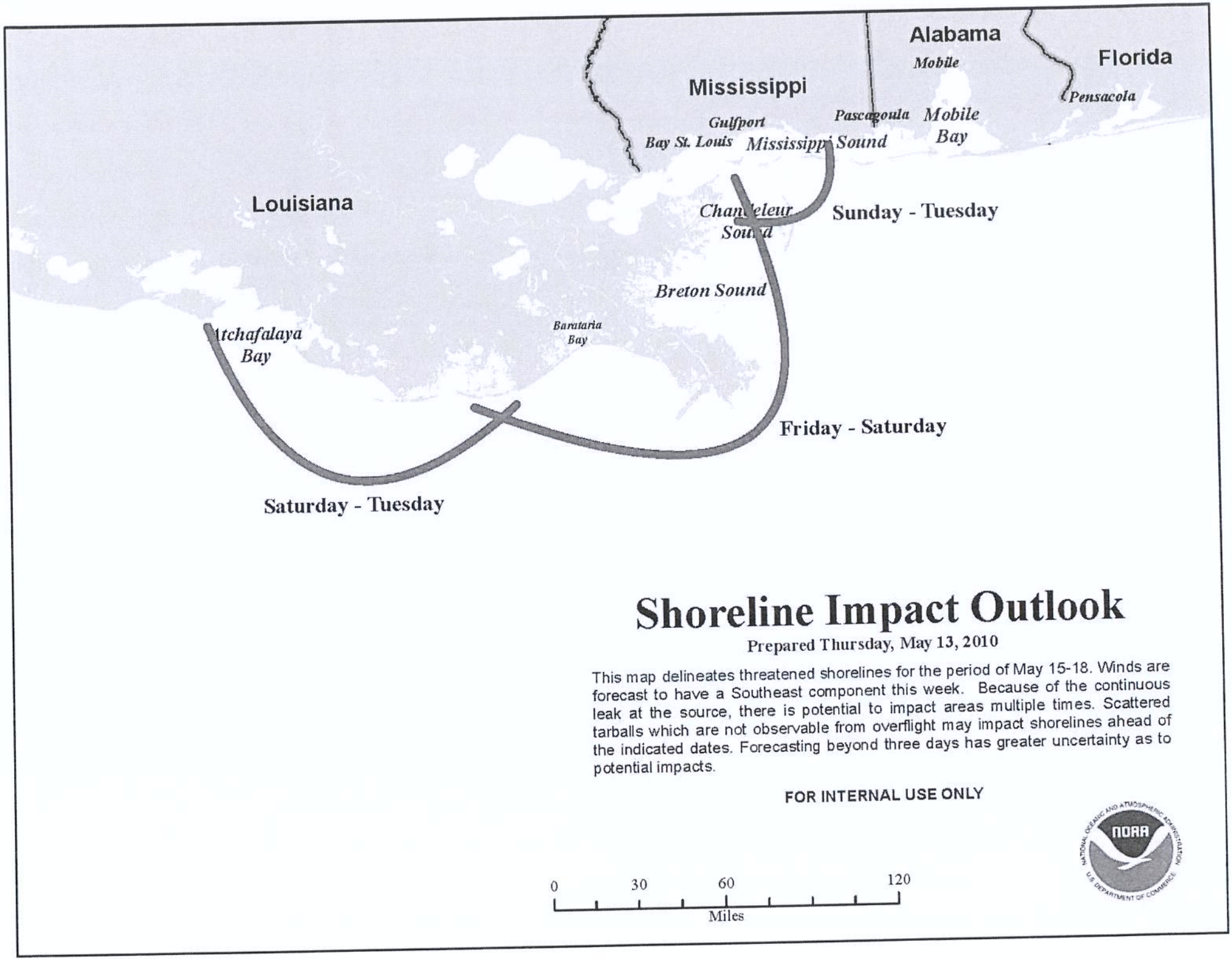
Prepared Wednesday, May 12, 2010

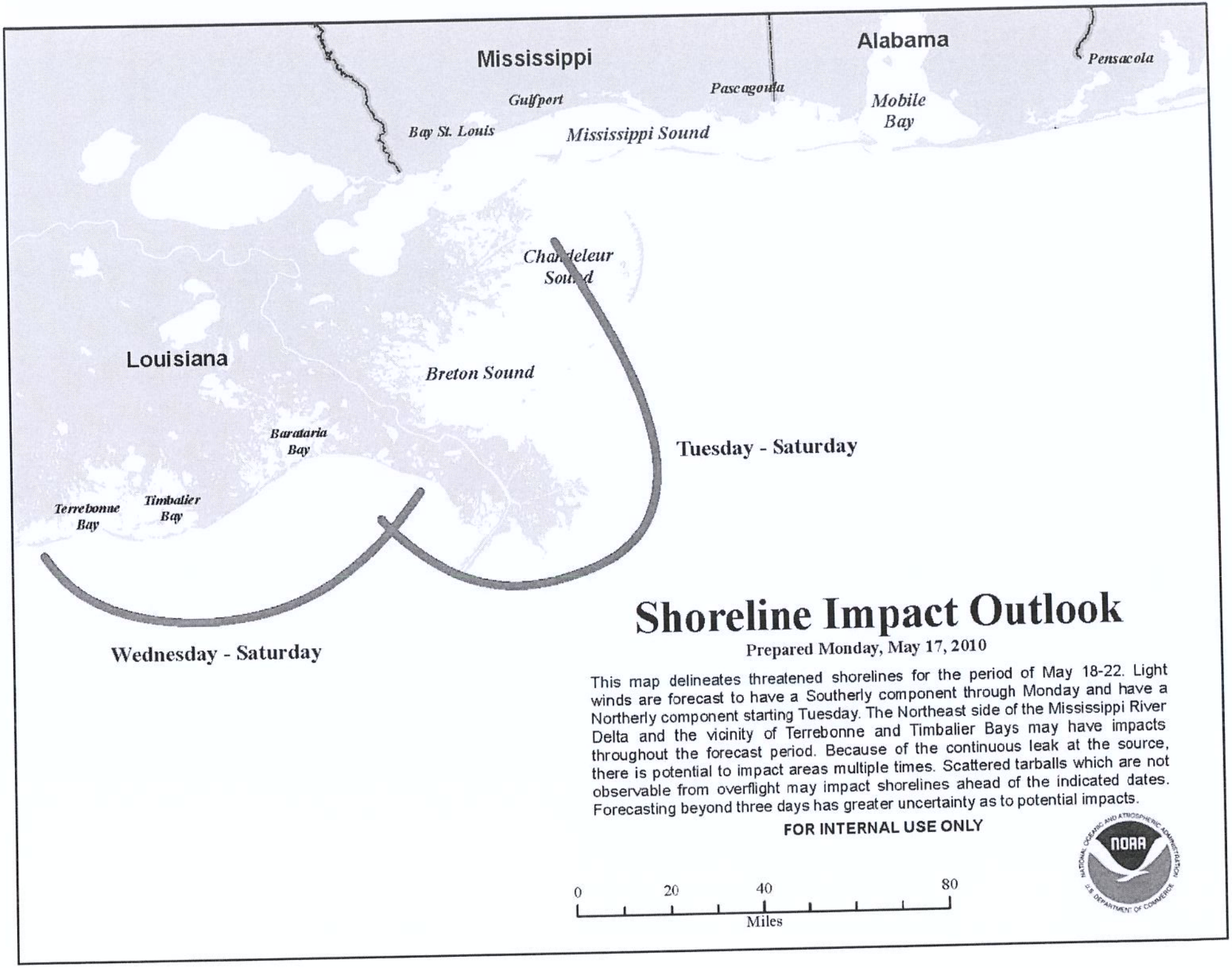
This map delineates threatened shorelines for the period of May 13-17. Winds are forecast to have a Southeast component this week. Because of the continuous leak at the source, there is potential to impact areas multiple times. Scattered tarballs which are not observable from overflight may impact shorelines ahead of the indicated dates. Forecasting beyond three days has greater uncertainty as to potential impacts.

FOR INTERNAL USE ONLY

0 30 60 120

Miles


Alabama
Mobile
Florida
Pensacola
Mississippi
Gulfport
Pascagoula
Mobile Bay
Bay St. Louis
Mississippi Sound
Louisiana
Chandeleur Sound
Sunday - Tuesday
Breton Sound
Barataria Bay
Atchafalaya Bay
Friday - Saturday
Saturday - Tuesday
Shoreline Impact Outlook
Prepared Thursday, May 13, 2010
This map delineates threatened shorelines for the period of May 15-18. Winds are forecast to have a Southeast component this week. Because of the continuous leak at the source, there is potential to impact areas multiple times. Scattered tarballs which are not observable from overflight may impact shorelines ahead of the indicated dates. Forecasting beyond three days has greater uncertainty as to potential impacts.
FOR INTERNAL USE ONLY
0
30
60
120
Miles
NOAA

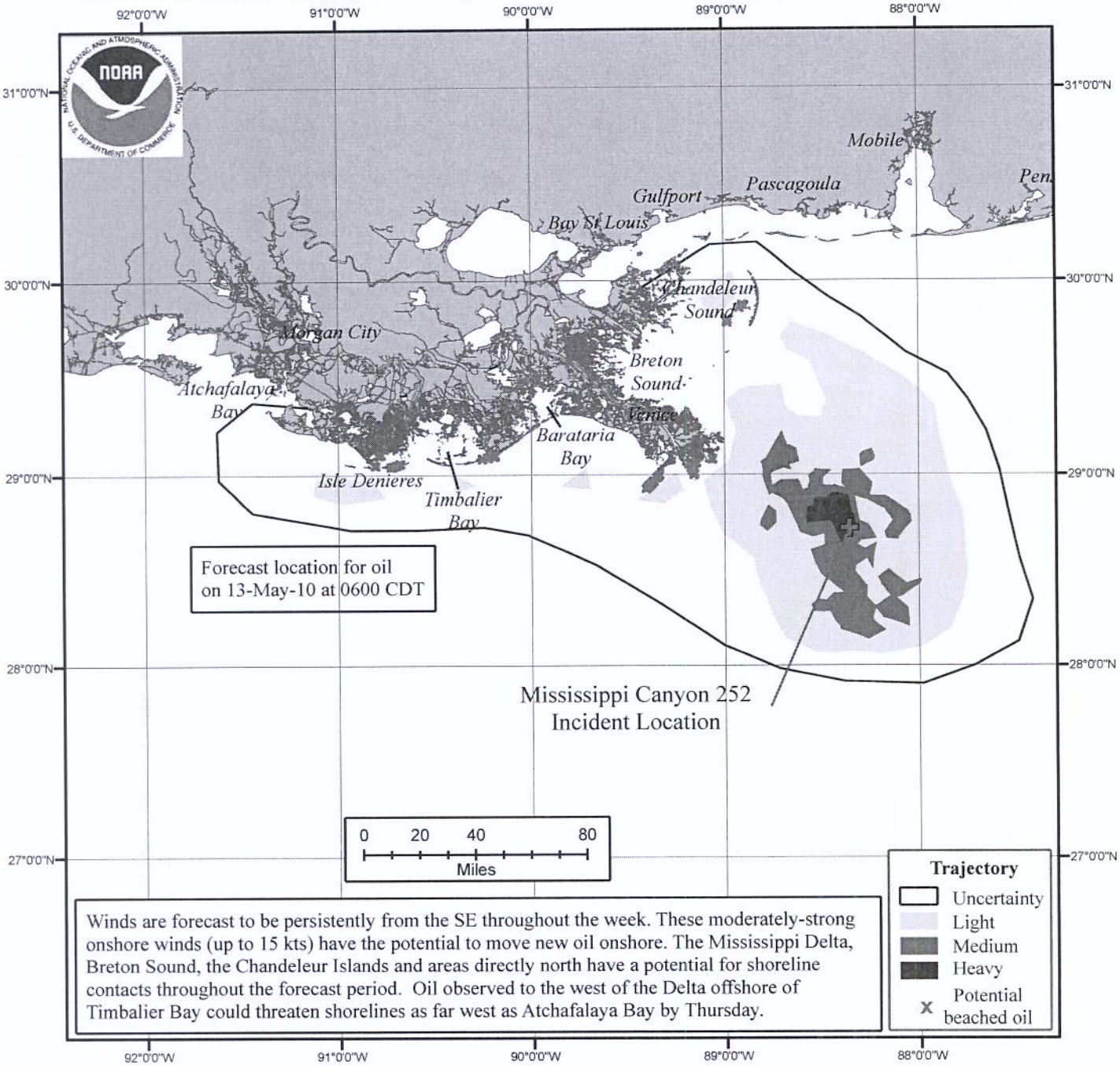

Mississippi
Alabama
Pensacola
Pascagoula
Gulfport
Mobile Bay
Bay St. Louis
Mississippi Sound
Chandeleur Sound
Louisiana
Breton Sound
Barataria Bay
Tuesday - Saturday
Terrebonne Bay
Timbalier Bay
Wednesday - Saturday
Shoreline Impact Outlook
Prepared Monday, May 17, 2010
This map delineates threatened shorelines for the period of May 18-22. Light winds are forecast to have a Southerly component through Monday and have a Northerly component starting Tuesday. The Northeast side of the Mississippi River Delta and the vicinity of Terrebonne and Timbalier Bays may have impacts throughout the forecast period. Because of the continuous leak at the source, there is potential to impact areas multiple times. Scattered tarballs which are not observable from overflight may impact shorelines ahead of the indicated dates. Forecasting beyond three days has greater uncertainty as to potential impacts.
FOR INTERNAL USE ONLY
0
20
40
80
Miles
NOAA

Trajectory Forecast
Mississippi Canyon 252

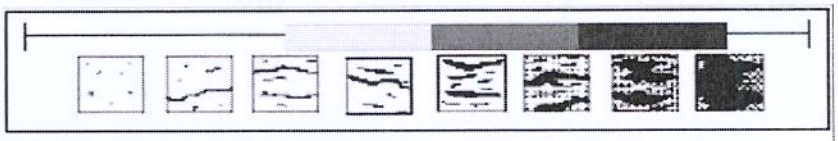
NOAA/NOS/OR&R

Estimate for: 0600 CDT, Thursday, 5/13/10
Date Prepared: 1300 CDT, Wednesday, 5/12/10

This forecast is based on the NWS spot forecast from Wednesday, May 12 AM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Wednesday AM satellite imagery analysis (NOAA/NESDIS) and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



Winds are forecast to be persistently from the SE throughout the week. These moderately-strong onshore winds (up to 15 kts) have the potential to move new oil onshore. The Mississippi Delta, Breton Sound, the Chandeleur Islands and areas directly north have a potential for shoreline contacts throughout the forecast period. Oil observed to the west of the Delta offshore of Timbalier Bay could threaten shorelines as far west as Atchafalaya Bay by Thursday.



this scale bar shows the meaning of the distribution terms at the current time

Next Forecast: May 13th AM

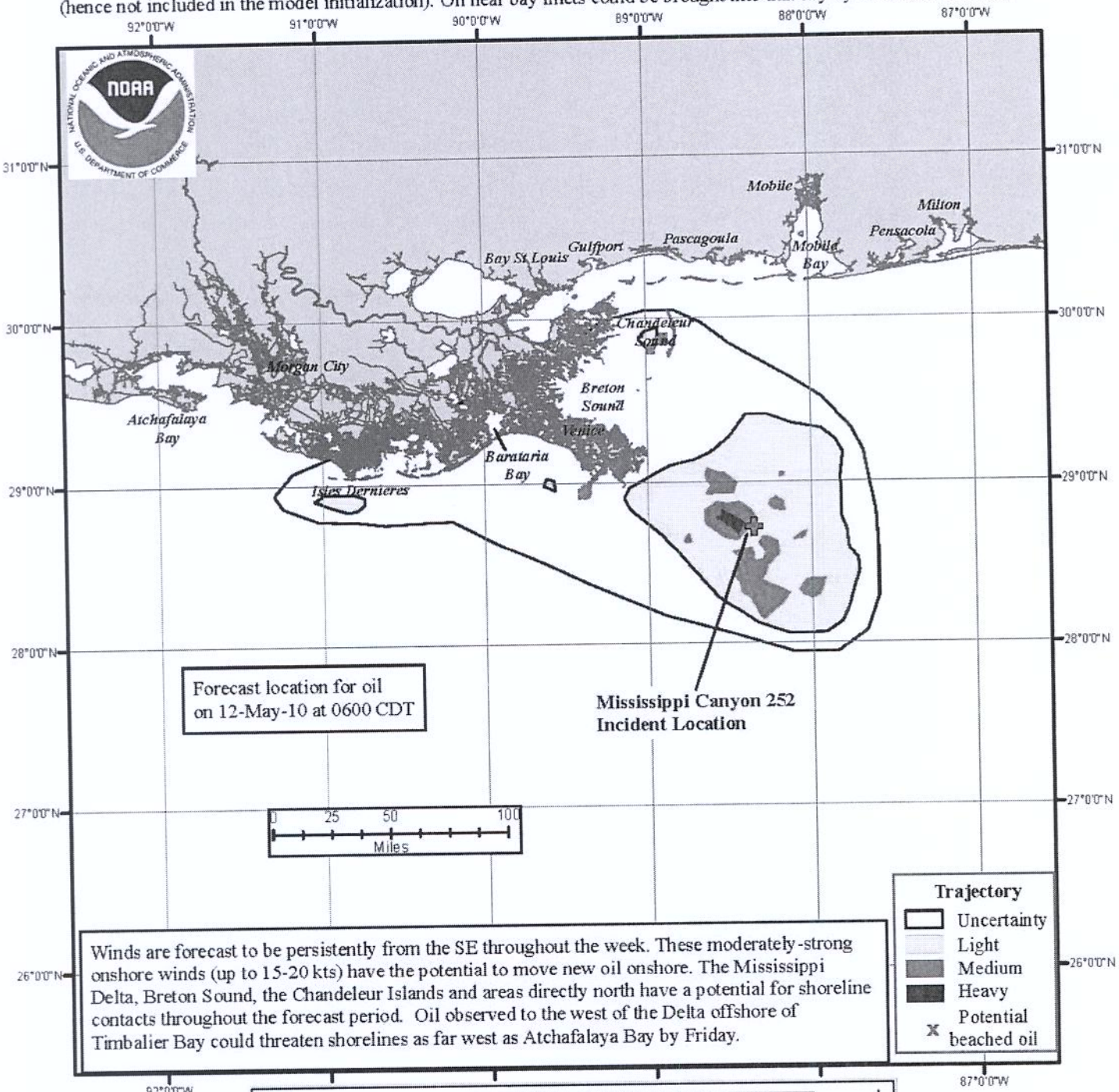
Trajectory Forecast
Mississippi Canyon 252

NOAA/NOS/OR&R

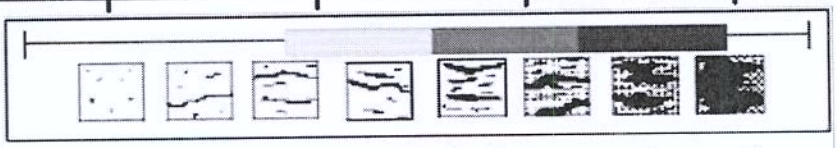
Estimate for: 0600 CDT, Wednesday 5/12/10

Date Prepared: 1300 CDT, Tuesday 5/11/10

This forecast is based on the NWS spot forecast from Tuesday, May 11 AM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Tuesday morning satellite/aerial imagery and analysis provided by NOAA/NESDIS and Transport Canada and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



Winds are forecast to be persistently from the SE throughout the week. These moderately-strong onshore winds (up to 15-20 kts) have the potential to move new oil onshore. The Mississippi Delta, Breton Sound, the Chandeleur Islands and areas directly north have a potential for shoreline contacts throughout the forecast period. Oil observed to the west of the Delta offshore of Timbalier Bay could threaten shorelines as far west as Atchafalaya Bay by Friday.



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Next Forecast: May 12th AM

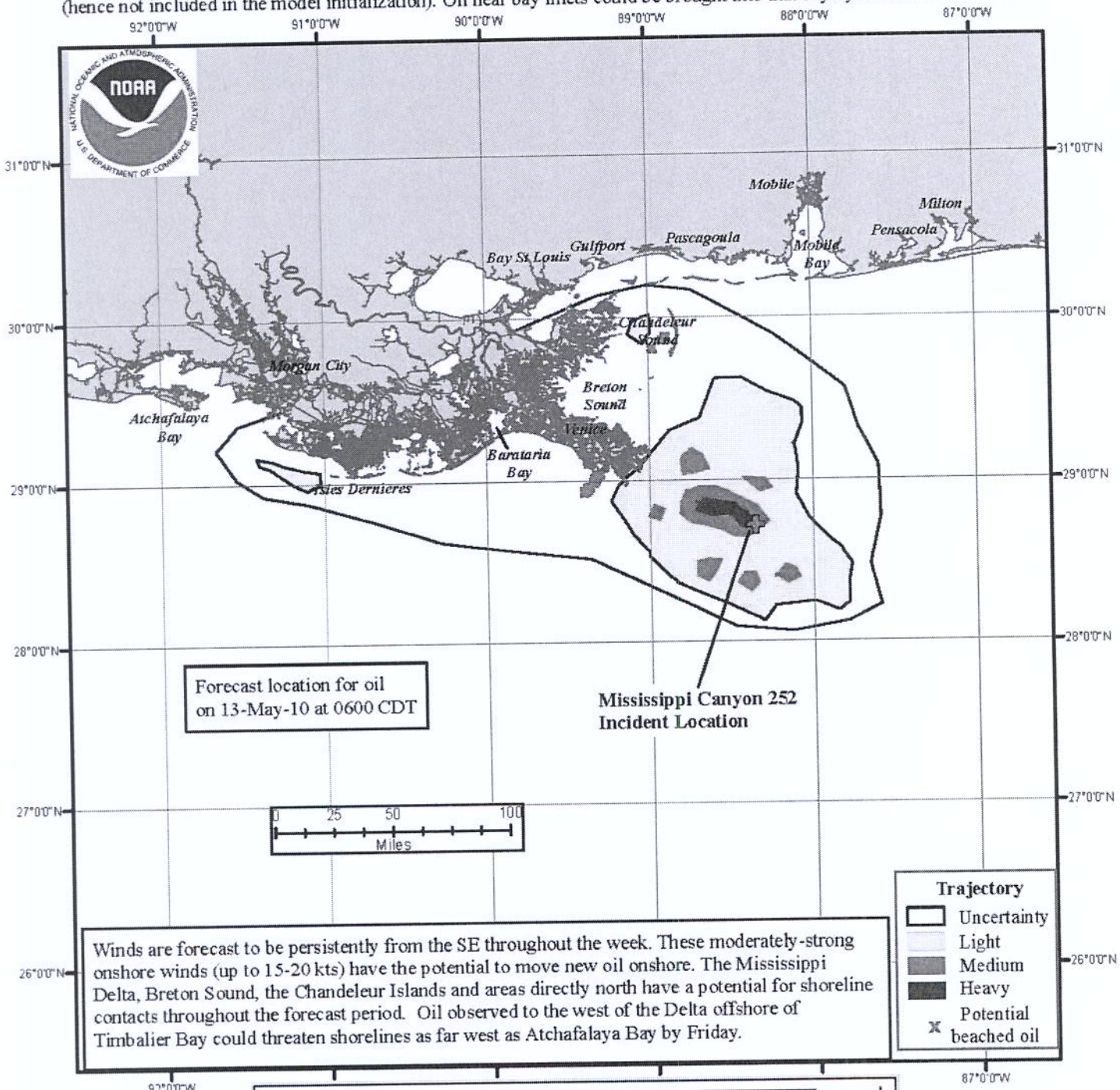
Trajectory Forecast
Mississippi Canyon 252

NOAA/NOS/OR&R

Estimate for: 0600 CDT, Thursday 5/13/10

Date Prepared: 1300 CDT, Tuesday 5/11/10

This forecast is based on the NWS spot forecast from Tuesday, May 11 AM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Tuesday morning satellite/aerial imagery and analysis provided by NOAA/NESDIS and Transport Canada and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



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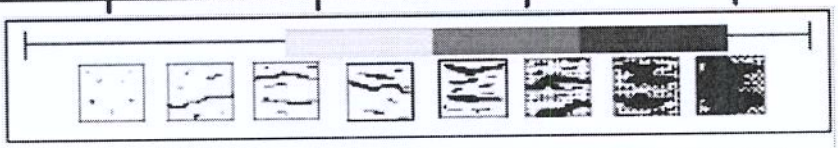

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Next Forecast: May 12th AM

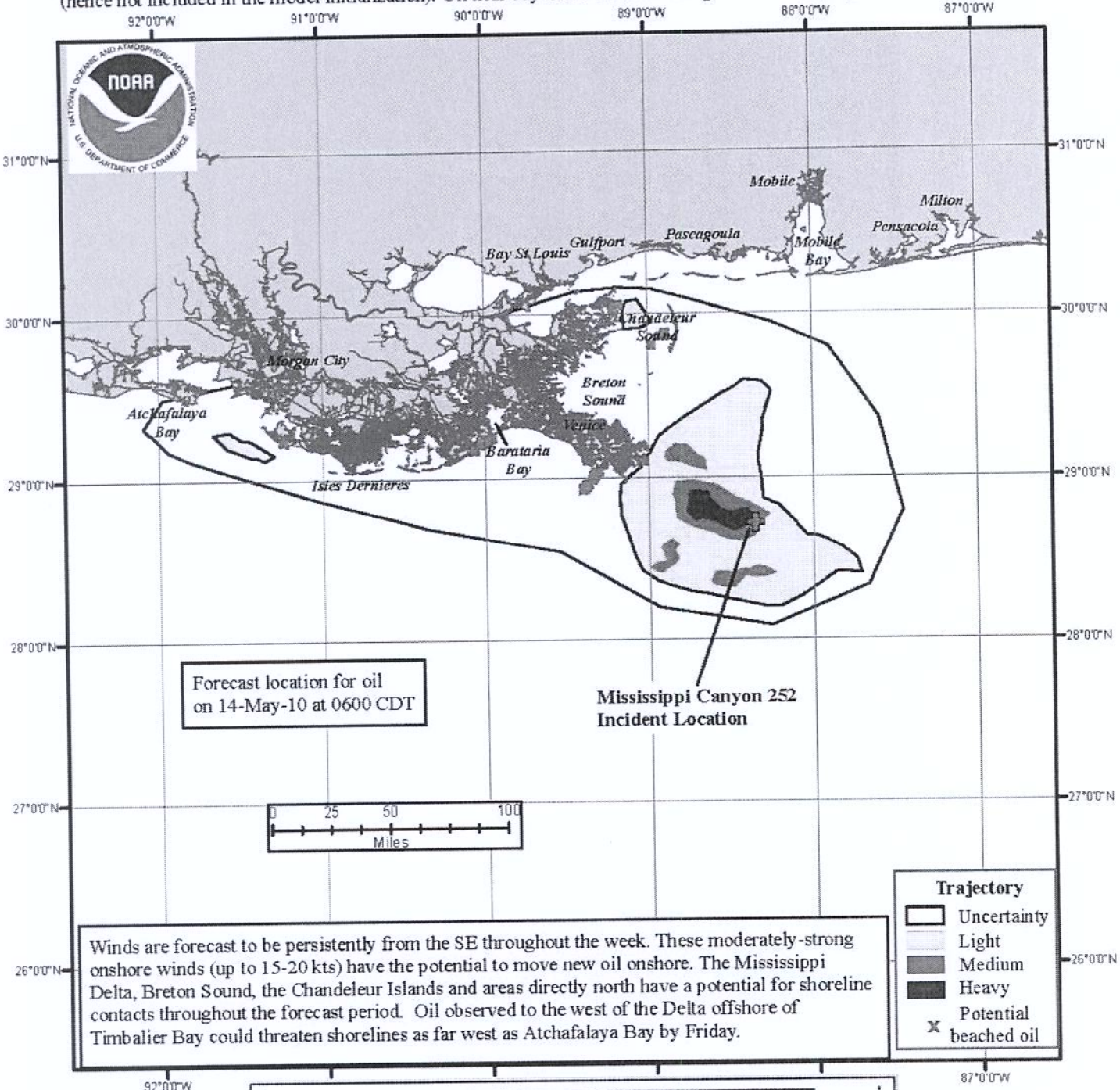
Trajectory Forecast
Mississippi Canyon 252

NOAA/NOS/OR&R

Estimate for: 0600 CDT, Friday 5/14/10

Date Prepared: 1300 CDT, Tuesday 5/11/10

This forecast is based on the NWS spot forecast from Tuesday, May 11 AM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Tuesday morning satellite/aerial imagery and analysis provided by NOAA/NESDIS and Transport Canada and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



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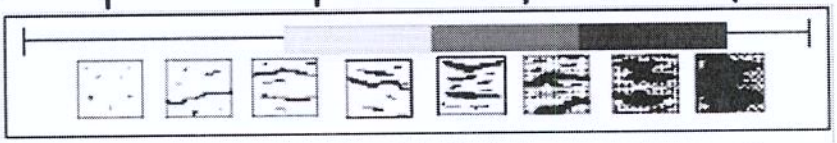

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Next Forecast: May 12th AM

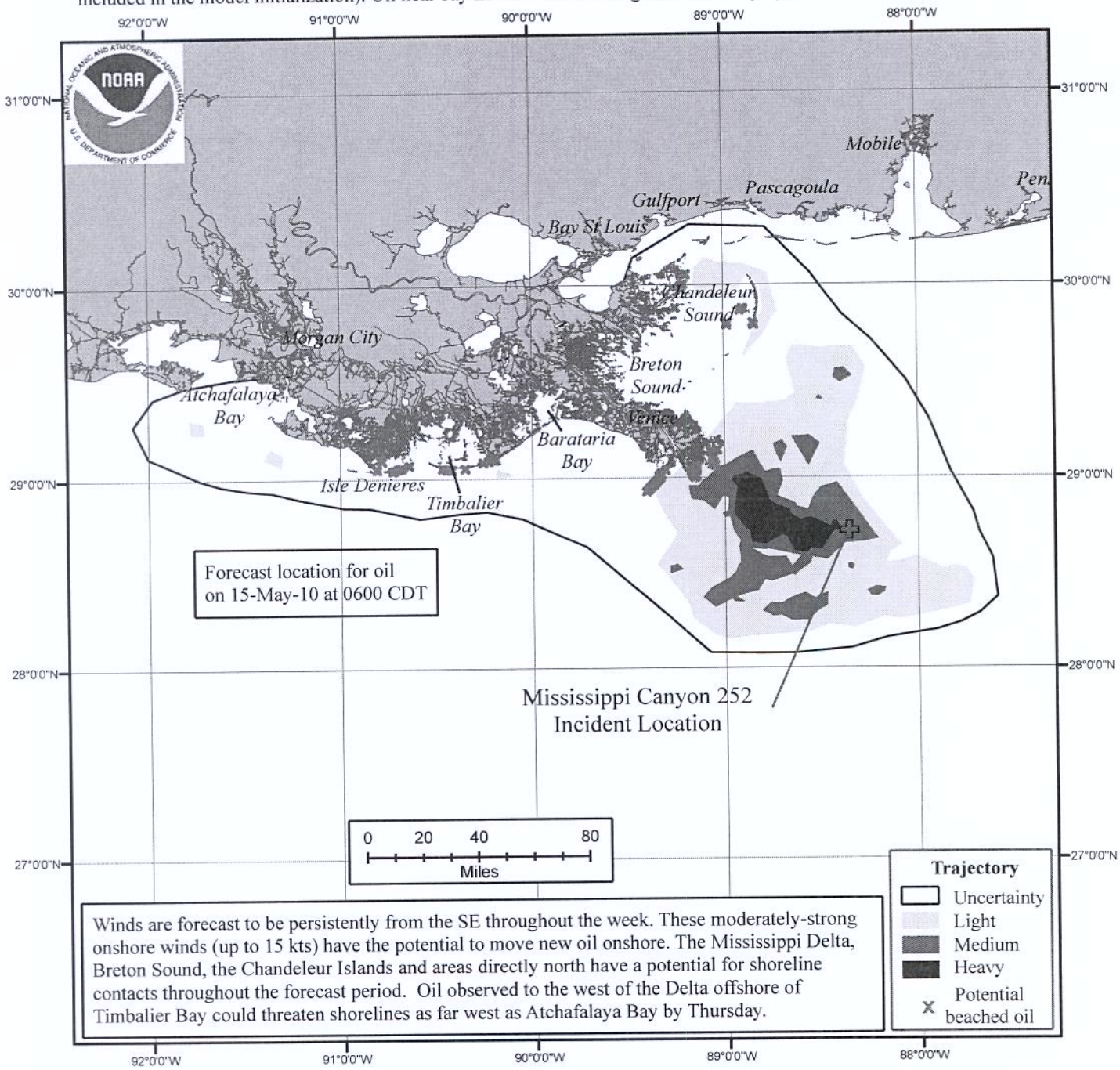
Trajectory Forecast
Mississippi Canyon 252

NOAA/NOS/OR&R

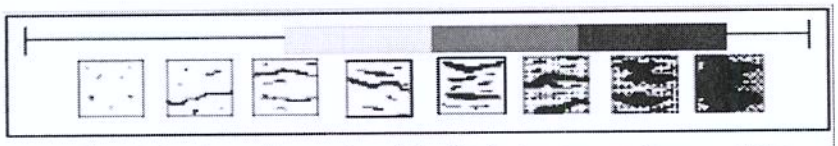
Estimate for: 0600 CDT, Saturday, 5/15/10

Date Prepared: 1300 CDT, Wednesday, 5/12/10

This forecast is based on the NWS spot forecast from Wednesday, May 12 AM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Wednesday AM satellite imagery analysis (NOAA/NESDIS) and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



Winds are forecast to be persistently from the SE throughout the week. These moderately-strong onshore winds (up to 15 kts) have the potential to move new oil onshore. The Mississippi Delta, Breton Sound, the Chandeleur Islands and areas directly north have a potential for shoreline contacts throughout the forecast period. Oil observed to the west of the Delta offshore of Timbalier Bay could threaten shorelines as far west as Atchafalaya Bay by Thursday.



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Next Forecast: May 13th AM

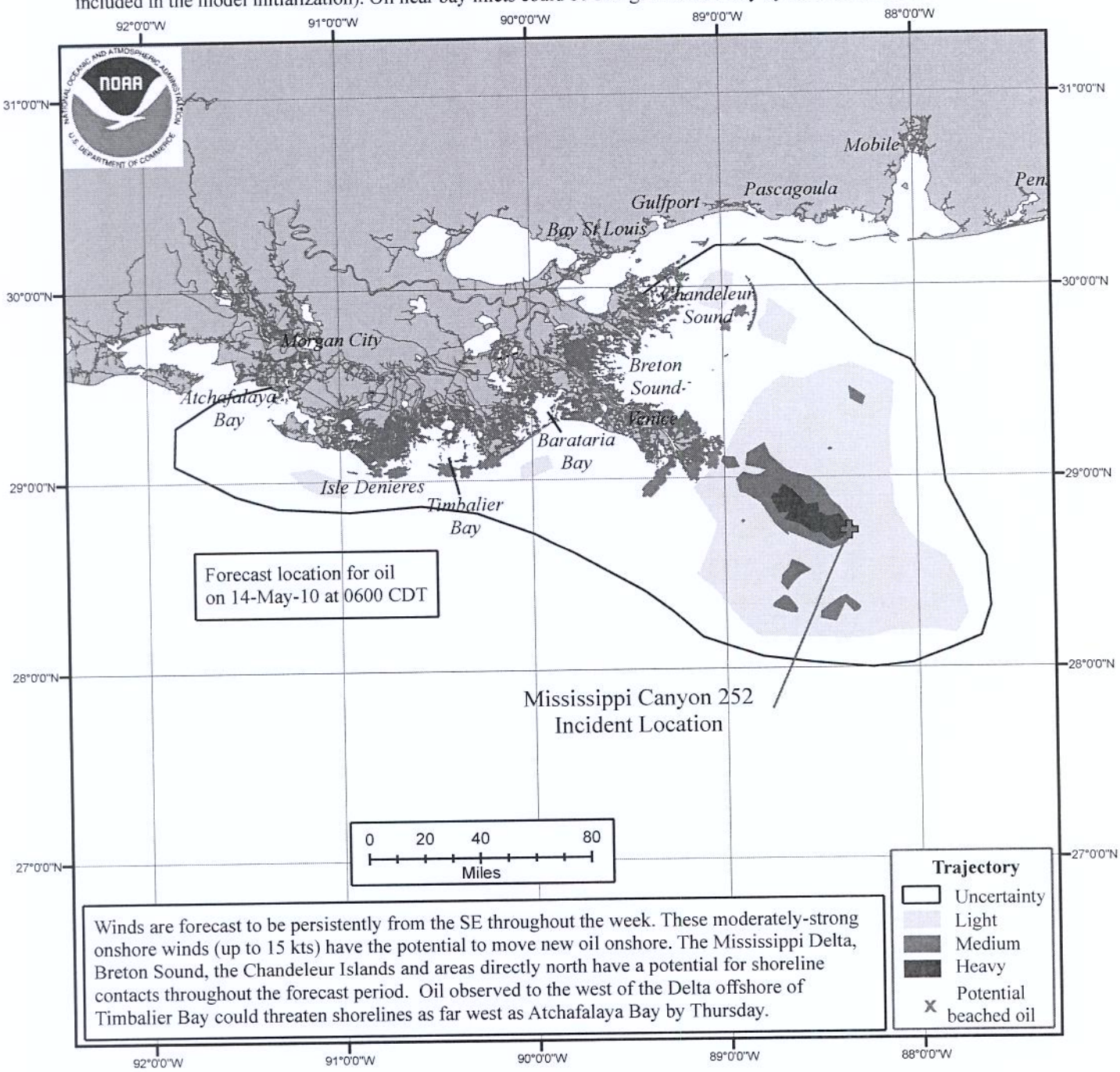
Trajectory Forecast
Mississippi Canyon 252

NOAA/NOS/OR&R

Estimate for: 0600 CDT, Friday, 5/14/10

Date Prepared: 1300 CDT, Wednesday, 5/12/10

This forecast is based on the NWS spot forecast from Wednesday, May 12 AM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Wednesday AM satellite imagery analysis (NOAA/NESDIS) and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



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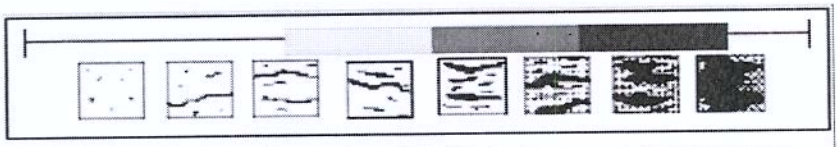

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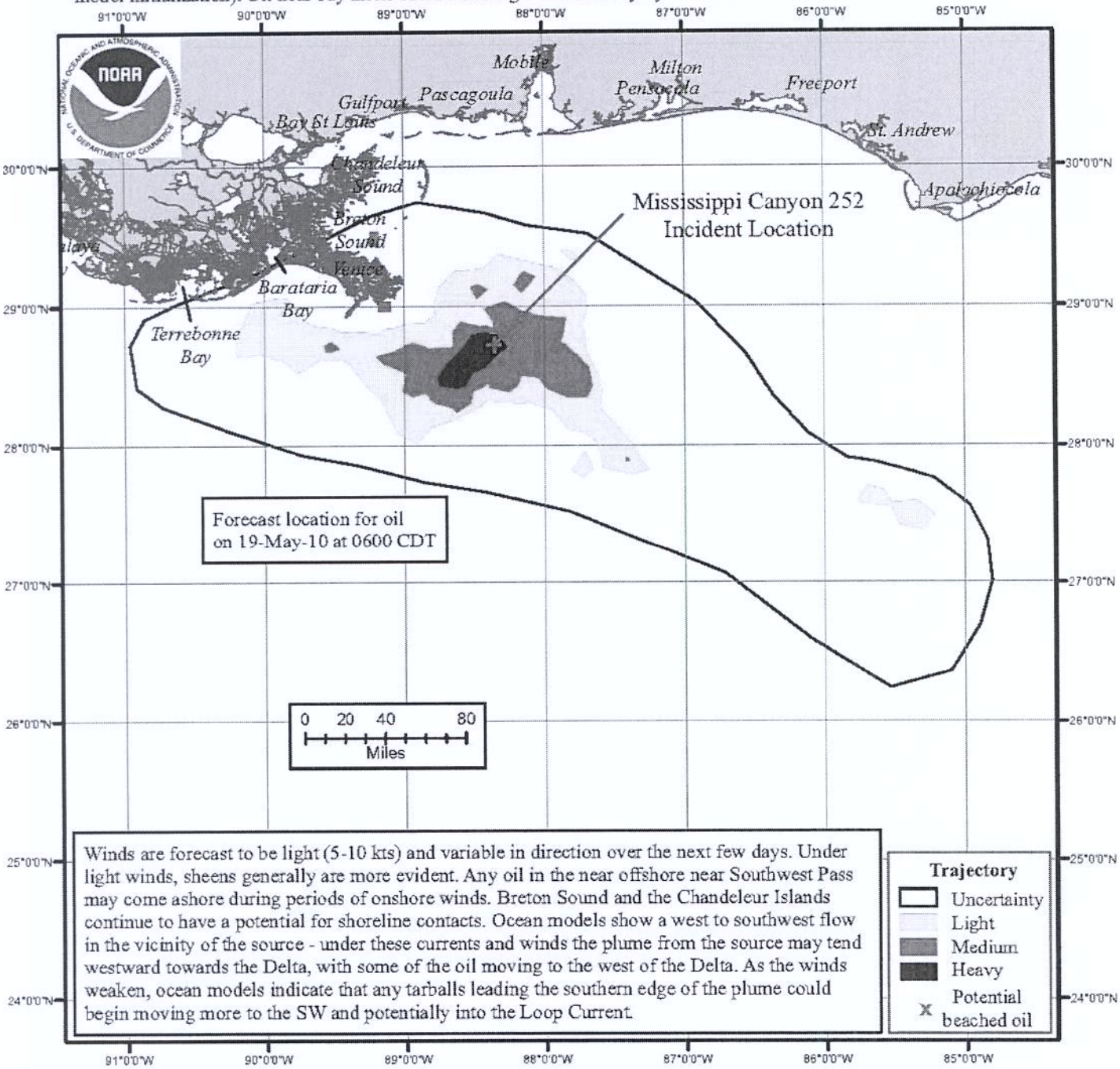
Next Forecast: May 13th AM

Trajectory Forecast
Mississippi Canyon 252

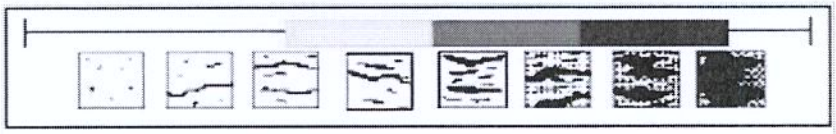
NOAA/NOS/OR&R

Estimate for: 0600 CDT, Wednesday, 5/19/10
Date Prepared: 1300 CDT, Monday, 5/17/10

This forecast is based on the NWS spot forecast from Monday, May 17 AM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Sunday PM satellite imagery analysis (NOAA/NESDIS) and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



Winds are forecast to be light (5-10 kts) and variable in direction over the next few days. Under light winds, sheens generally are more evident. Any oil in the near offshore near Southwest Pass may come ashore during periods of onshore winds. Breton Sound and the Chandeleur Islands continue to have a potential for shoreline contacts. Ocean models show a west to southwest flow in the vicinity of the source - under these currents and winds the plume from the source may tend westward towards the Delta, with some of the oil moving to the west of the Delta. As the winds weaken, ocean models indicate that any tarballs leading the southern edge of the plume could begin moving more to the SW and potentially into the Loop Current.



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Next Forecast: May 18th AM

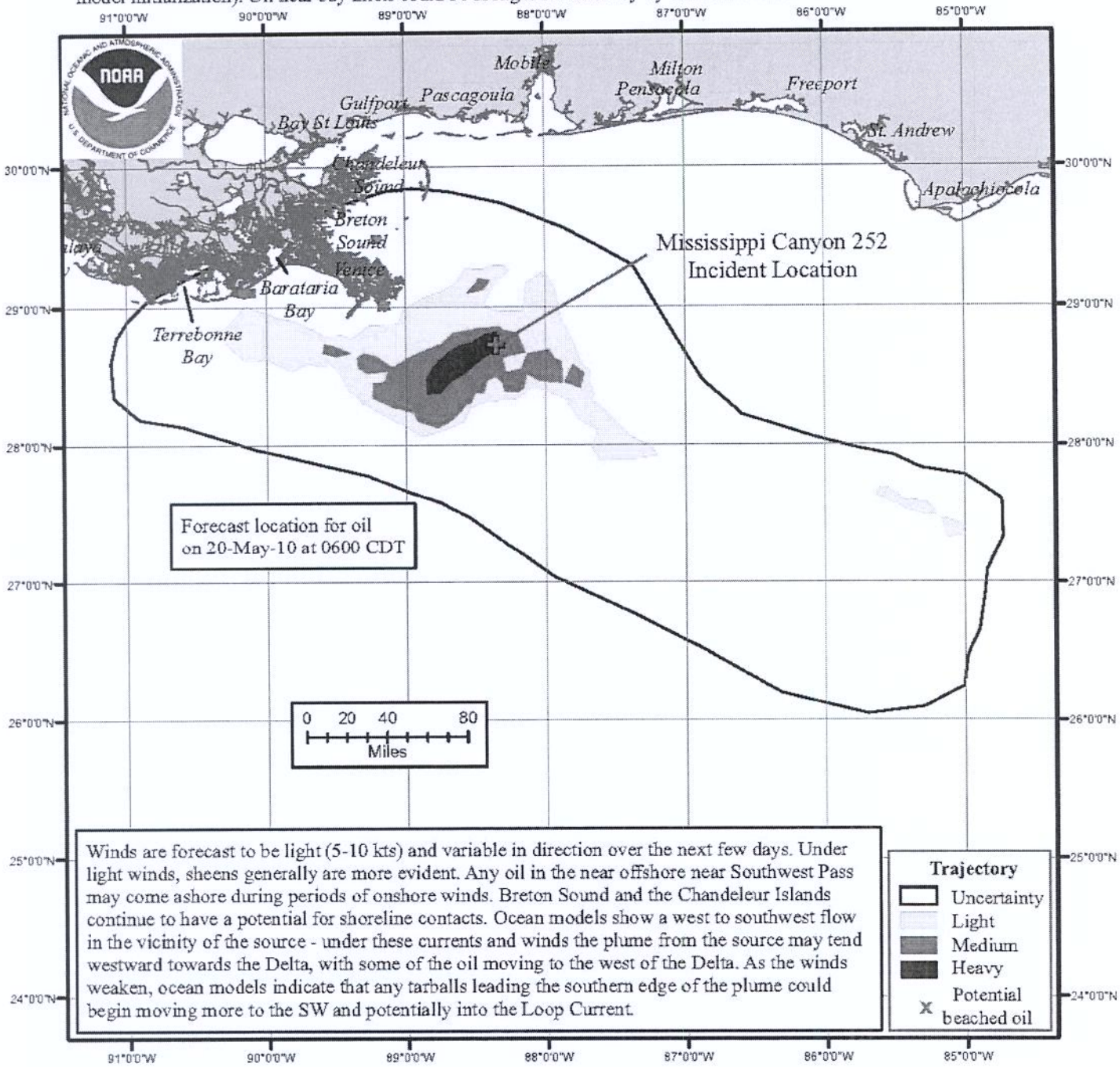
Trajectory Forecast
Mississippi Canyon 252

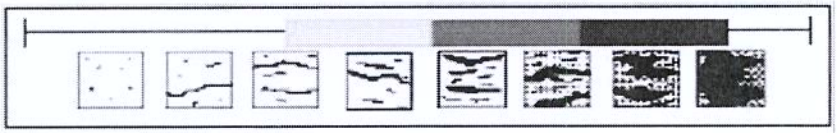
NOAA/NOS/OR&R

Estimate for: 0600 CDT, Thursday, 5/20/10

Date Prepared: 1300 CDT, Monday, 5/17/10

This forecast is based on the NWS spot forecast from Monday, May 17 AM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Sunday PM satellite imagery analysis (NOAA/NESDIS) and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.





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Next Forecast: May 18th AM

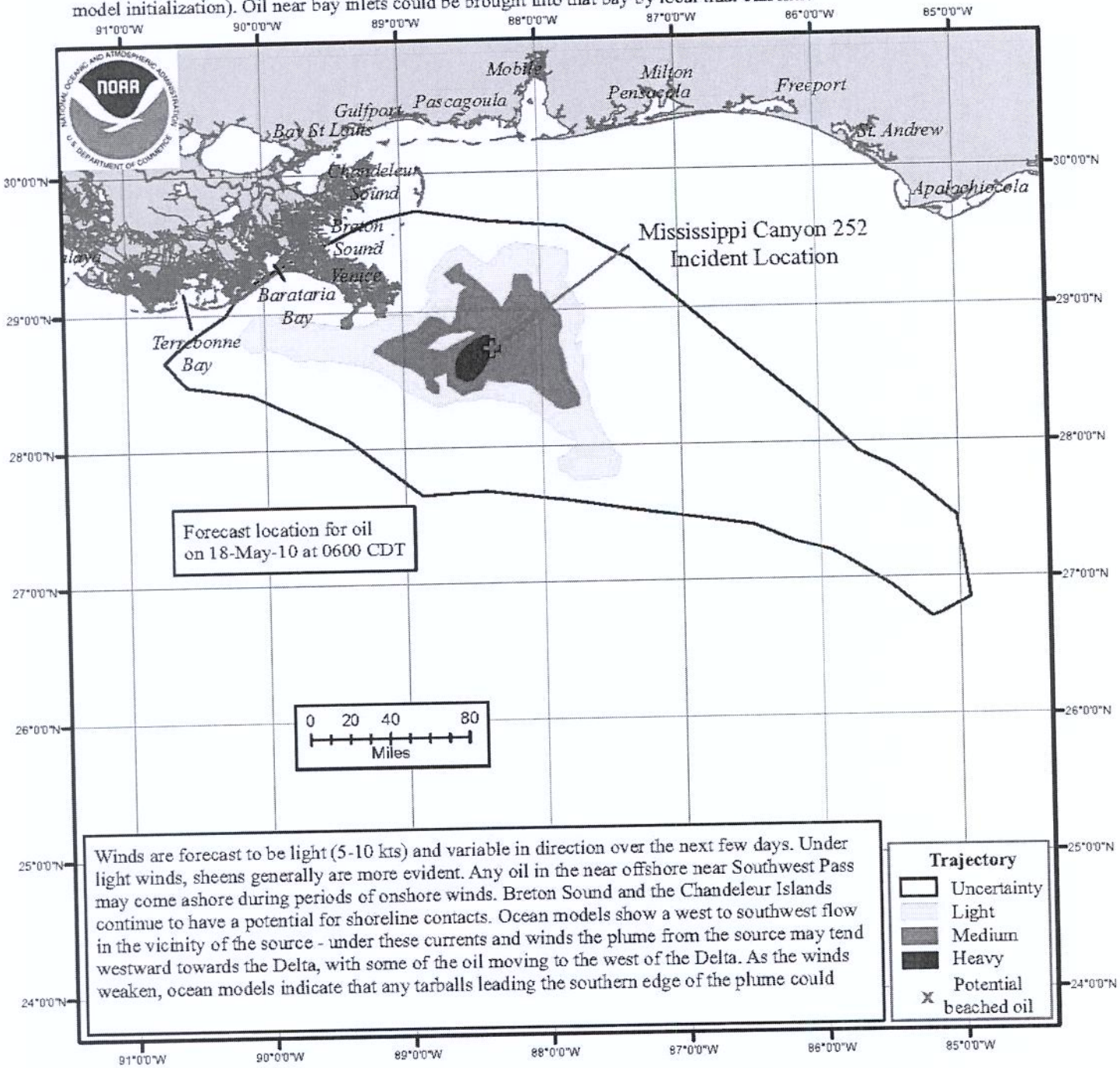
Trajectory Forecast Mississippi Canyon 252

NOAA/NOS/OR&R

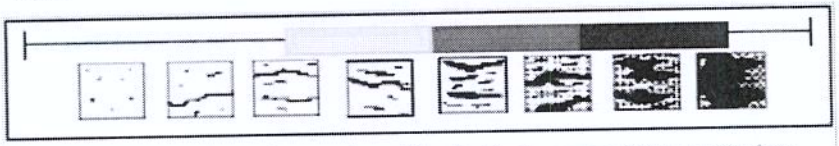
Estimate for: 0600 CDT, Tuesday, 5/18/10

Date Prepared: 1300 CDT, Monday, 5/17/10

This forecast is based on the NWS spot forecast from Monday, May 17 AM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Sunday PM satellite imagery analysis (NOAA/NESDIS) and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



Winds are forecast to be light (5-10 kts) and variable in direction over the next few days. Under light winds, sheens generally are more evident. Any oil in the near offshore near Southwest Pass may come ashore during periods of onshore winds. Breton Sound and the Chandeleur Islands continue to have a potential for shoreline contacts. Ocean models show a west to southwest flow in the vicinity of the source - under these currents and winds the plume from the source may tend westward towards the Delta, with some of the oil moving to the west of the Delta. As the winds weaken, ocean models indicate that any tarballs leading the southern edge of the plume could



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Next Forecast: May 18th AM

EXPERIMENTAL MARINE POLLUTION SURVEILLANCE REPORT

Analysis Provided by: The National Oceanic and Atmospheric Administration/National Environmental Satellite, Data and Information Service (NOAA/NESDIS)

REPORT DATE: May 18, 2010
REPORT TIME: 0230Z (2130 CDT)
ANALYST: SPAMPATA

DATA SOURCE: ENVISAT MERIS © ESA 2010
MODE: VISIBLE
IMAGE DATE/TIME: 05/17/2010 1636Z (1136 CDT)

Legend

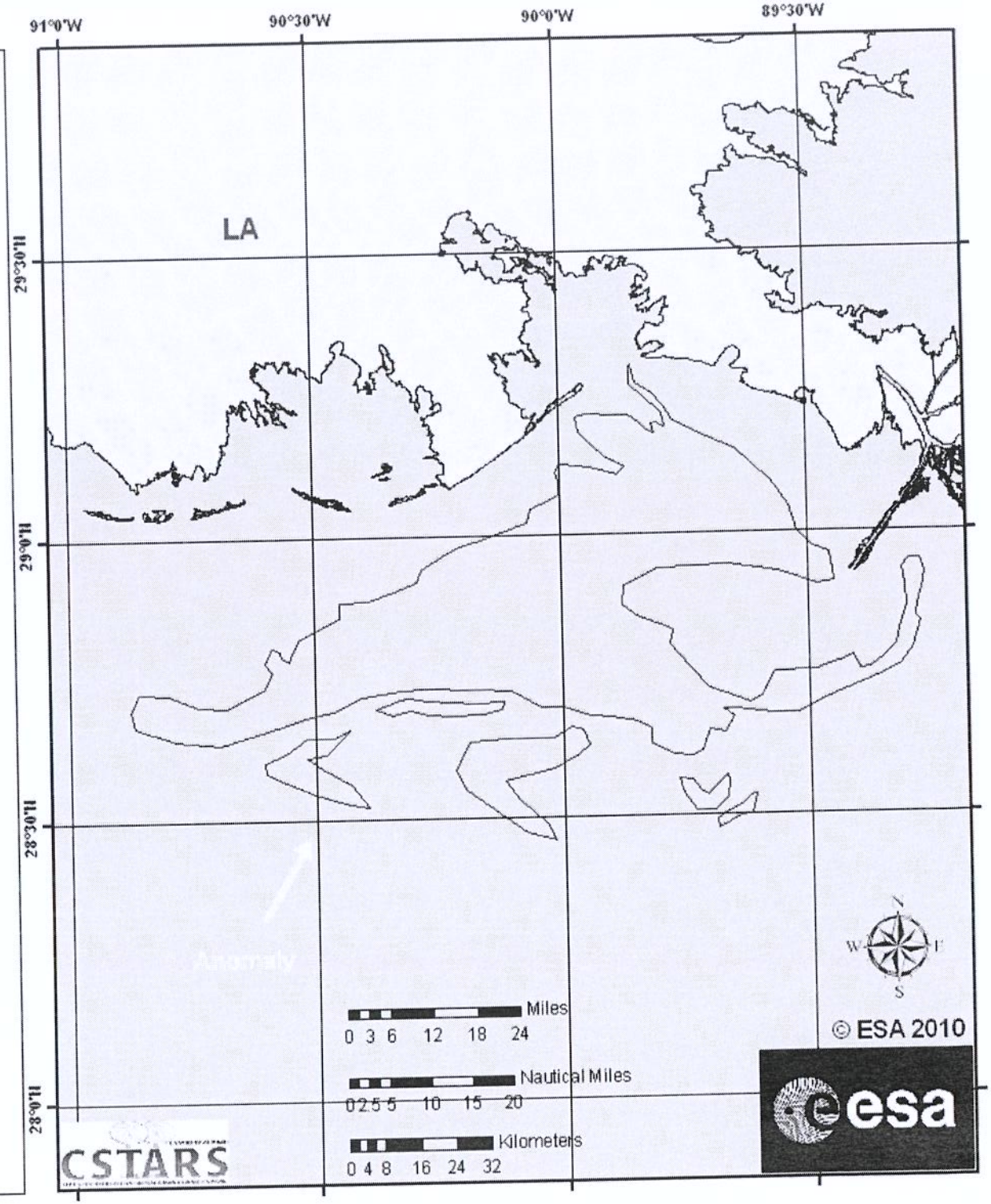
Anomaly

Location of Deepwater Horizon Platform: [28°44'12" N / 88°23'14" W]

REMARKS:

This visible image from late morning shows the western extent of the oil slick. The southern extent of the slick shown in this image appears very thin and wispy. There are also some thin clouds in the area obscuring the boundary.

This is an experimental product of the Satellite Analysis Branch and not operationally maintained. We will do our best to make it available in a timely manner.



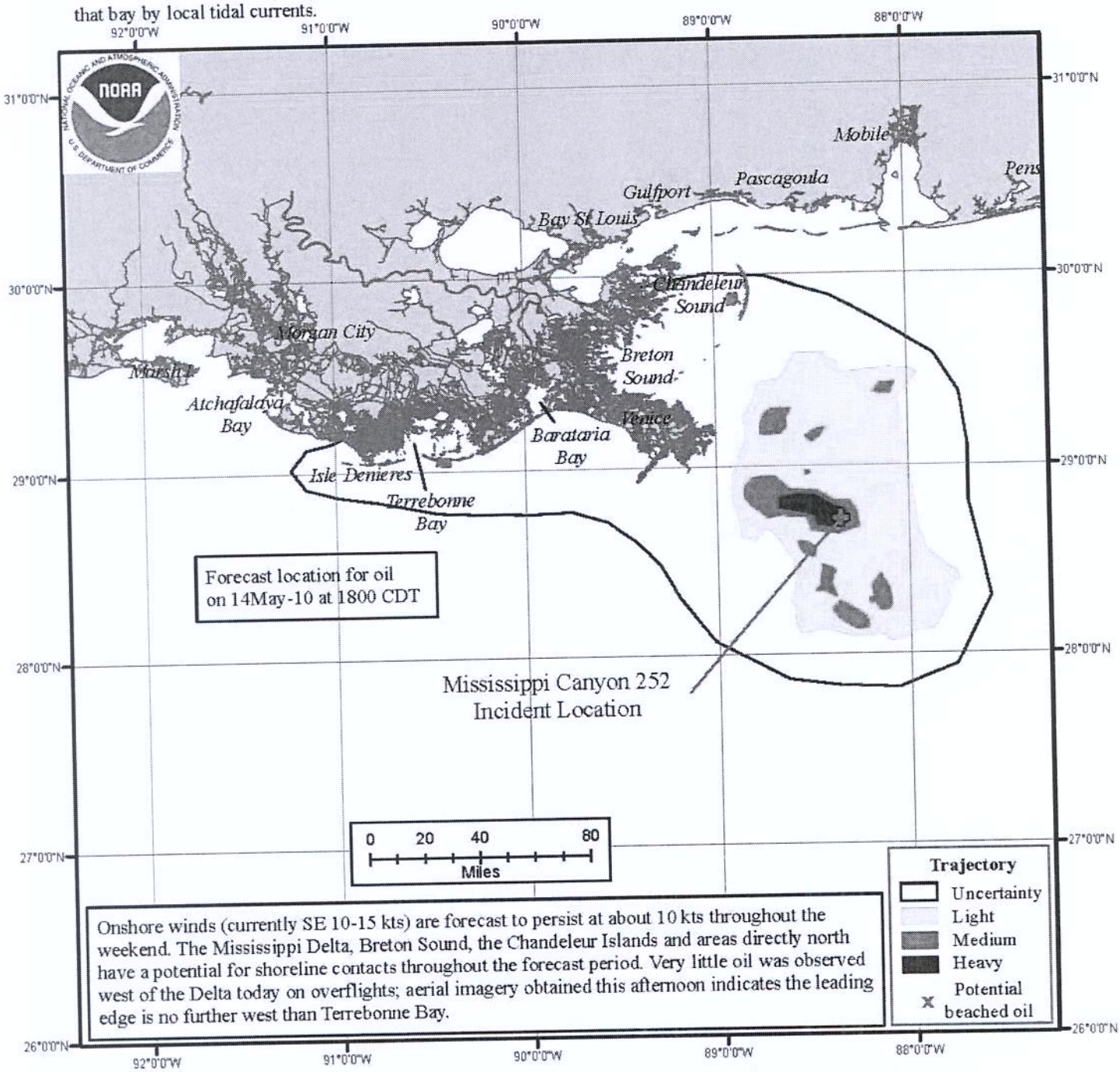
Trajectory Forecast
Mississippi Canyon 252

NOAA/NOS/OR&R

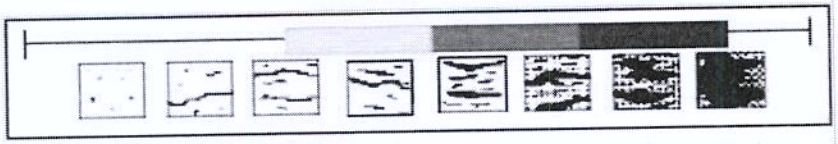
Estimate for: 1800 CDT, Friday, 5/14/10

Date Prepared: 2000 CDT, Thursday, 5/13/10

This forecast is based on the NWS spot forecast from Thursday, May 13 PM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Thursday morning satellite imagery analysis (NOAA/NESDIS), afternoon aerial imagery (Transport Canada), and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



Onshore winds (currently SE 10-15 kts) are forecast to persist at about 10 kts throughout the weekend. The Mississippi Delta, Breton Sound, the Chandeleur Islands and areas directly north have a potential for shoreline contacts throughout the forecast period. Very little oil was observed west of the Delta today on overflights; aerial imagery obtained this afternoon indicates the leading edge is no further west than Terrebonne Bay.



this scale bar shows the meaning of the distribution terms at the current time

Next Forecast: May 14th PM

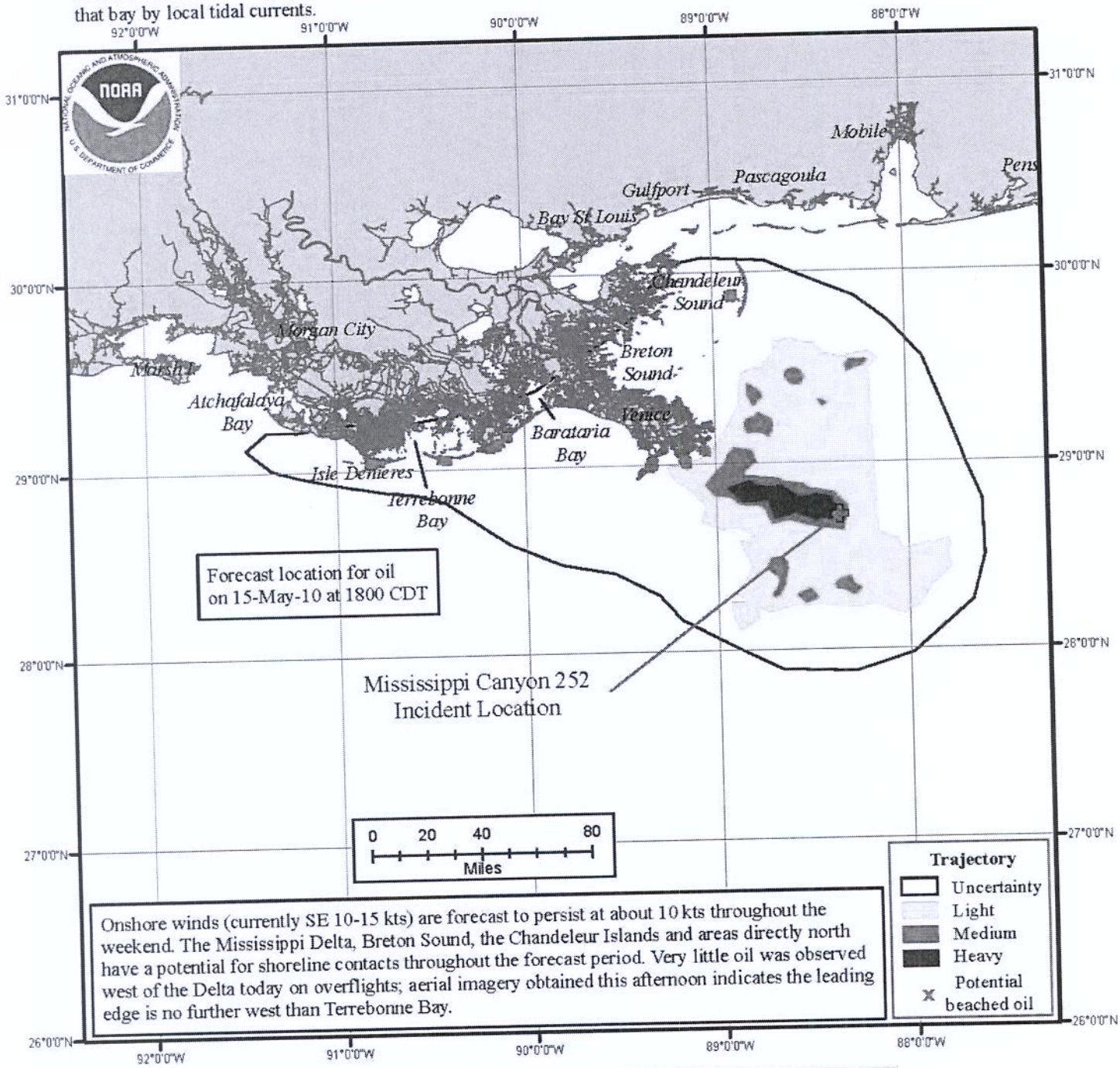
Trajectory Forecast
Mississippi Canyon 252

NOAA/NOS/OR&R

Estimate for: 1800 CDT, Saturday, 5/15/10

Date Prepared: 2000 CDT, Thursday, 5/13/10

This forecast is based on the NWS spot forecast from Thursday, May 13 PM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Thursday morning satellite imagery analysis (NOAA/NESDIS), afternoon aerial imagery (Transport Canada), and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



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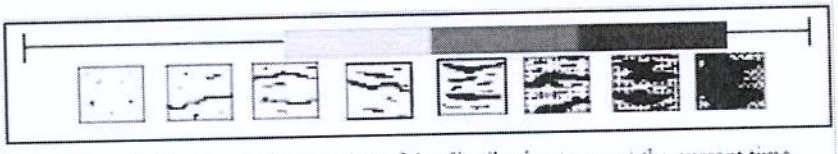


this scale bar shows the meaning of the distribution terms at the current time

Next Forecast: May 14th PM

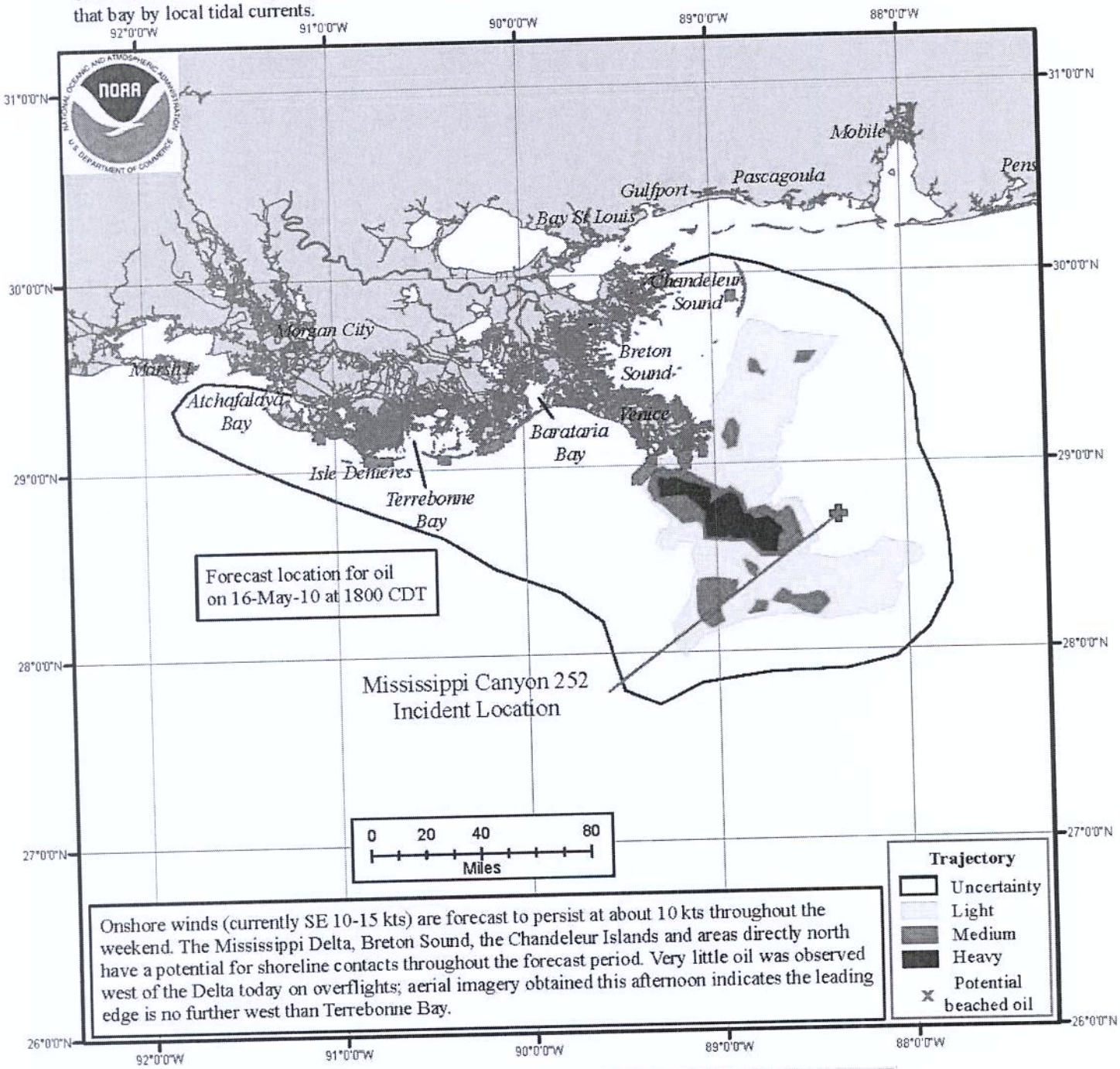
Trajectory Forecast
Mississippi Canyon 252

NOAA/NOS/OR&R

Estimate for: 1800 CDT, Sunday, 5/16/10

Date Prepared: 2000 CDT, Thursday, 5/13/10

This forecast is based on the NWS spot forecast from Thursday, May 13 PM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Thursday morning satellite imagery analysis (NOAA/NESDIS), afternoon aerial imagery (Transport Canada), and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



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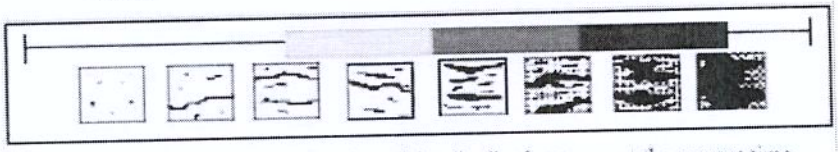

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Next Forecast: May 14th PM

ResponseLINK DEEPWATER HORIZON Incident Dispersant Operations 22APR10.txt
ResponseLINK: DEEPWATER HORIZON Incident: Dispersant Operations 22APR10Skip to main content ResponseLINK Home >> Hotline >> Incident >> Entry

DEEPWATER HORIZON Incident, Gulf of Mexico
SubjectDispersant Operations 22APR10
Frommary.gill@noaa.gov
DateApr-23-2010 05:10 AM
CategorySituation Reports
IDIncident #8220, Entry #526087

Entry is PRIVATE.
One dispersant aircraft made five passes over the east side of the oil slick yesterday afternoon, 22APR10. 1900 gallons of Corexit 9527 was applied to a preidentified area. Visual observations after the application looked promising that the dispersant was quite effective. SMART Tier 1 and Tier 2 were on-scene. Overflights this morning will confirm the efficacy and update slick information. Photos have been added and additional information will be posted as it becomes available.You are user cg.hq with Responder permissions. [Logout]

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