



MDMR Office of Marine Fisheries
Deepwater Horizon Oil Spill
Seafood
Monitoring and Testing Program



Partners

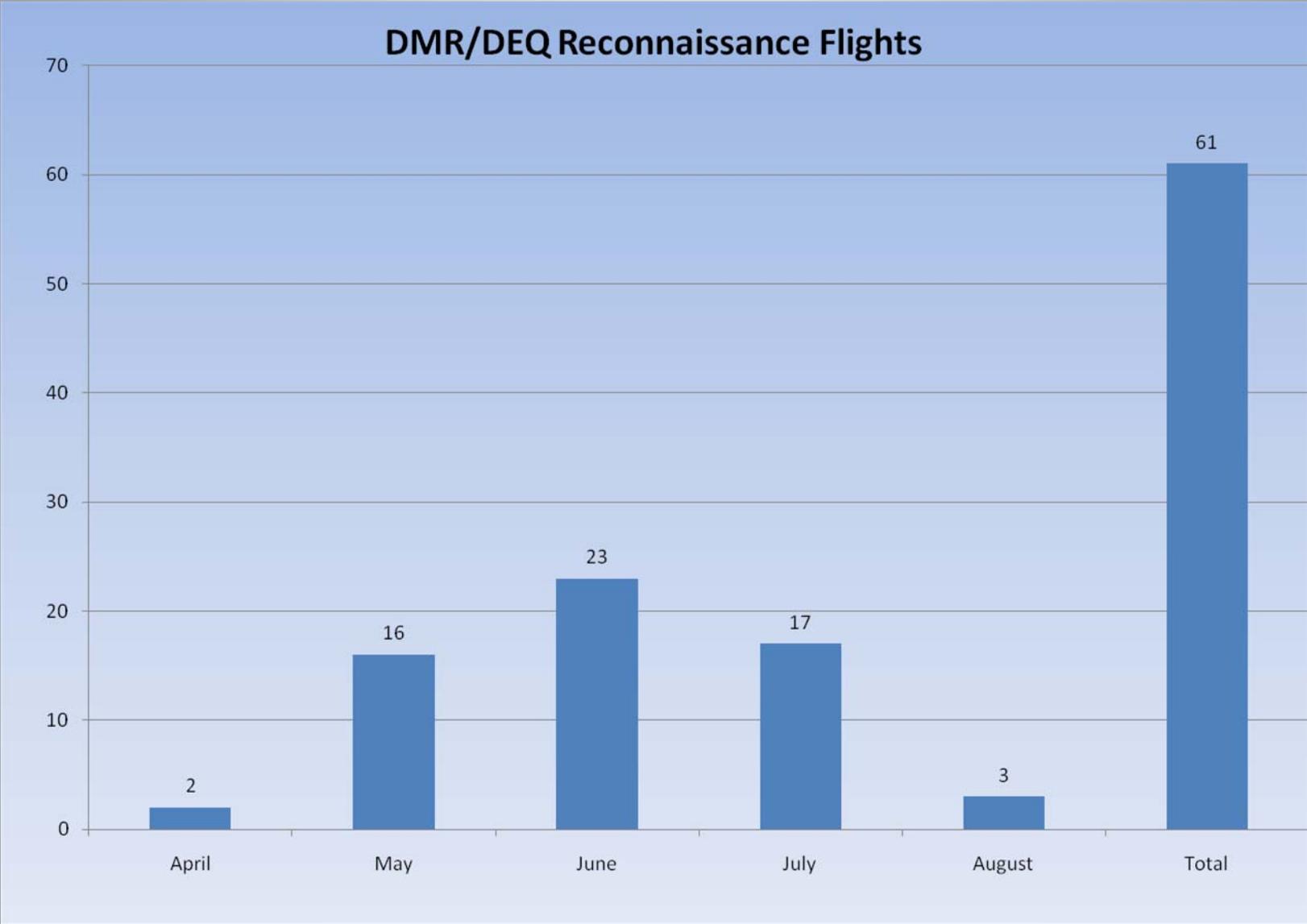
Mississippi Department of Environmental Quality (MDEQ)
Mississippi State Department of Health (MSDH)
Mississippi National Guard (MNG)
National Oceanic and Atmospheric Administration (NOAA)
US Food and Drug Administration (FDA)
US Environmental Protection Agency (EPA)
US Coast Guard (USCG)



Seafood Safety Efforts

1. Flight Operations
2. Water Sampling
3. Precautionary Fishery Closures
4. Fisheries Reopening Protocols
5. Seafood Testing
6. Dealers/Processors/Retailers Inspections.

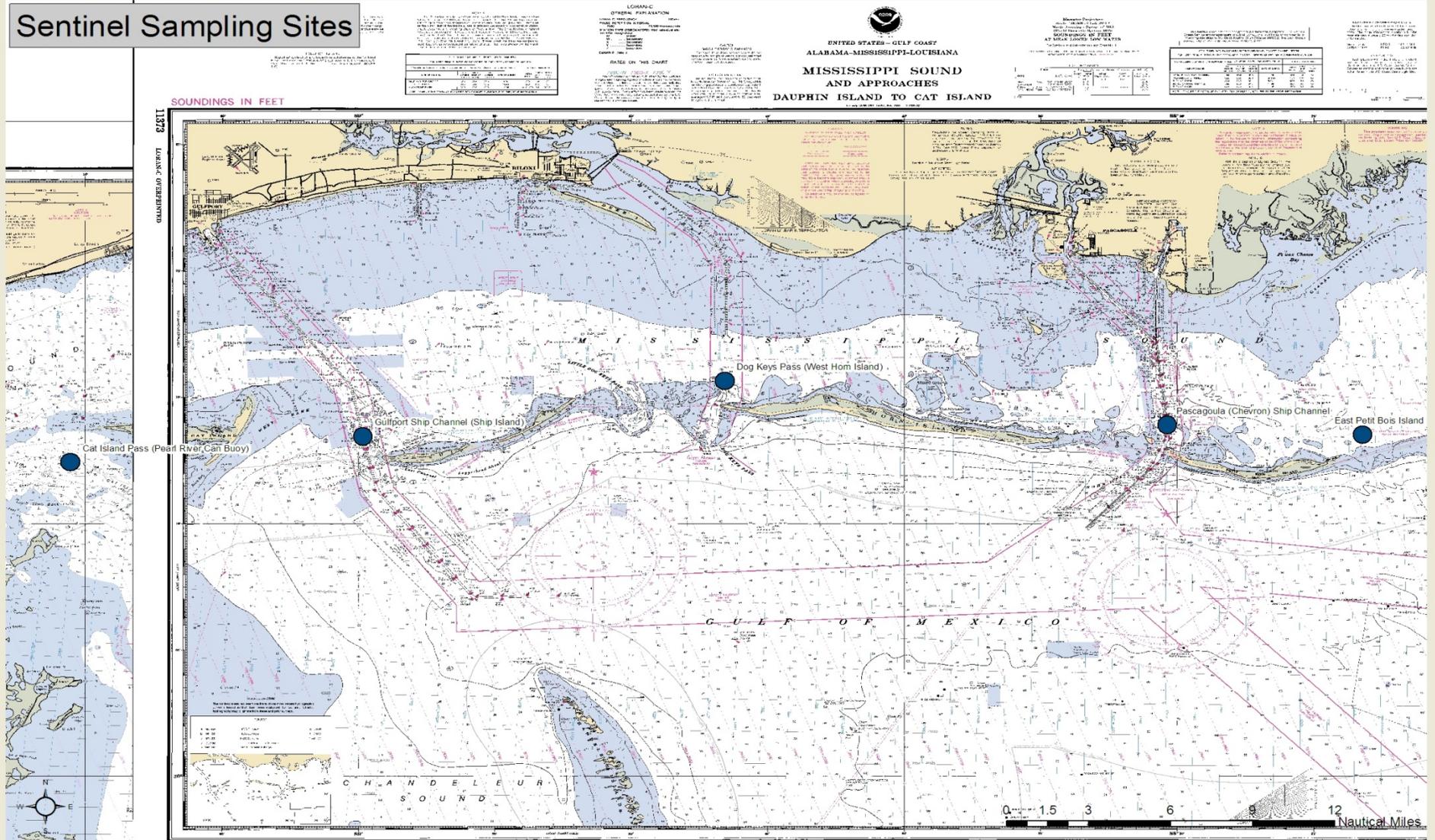
DMR/DEQ Joint Flight Inspections





Sentinel Sampling Islands Passes Started May 19 – Ended August 6, 2010 296 Water Samples Collected

Sentinel Sampling Sites

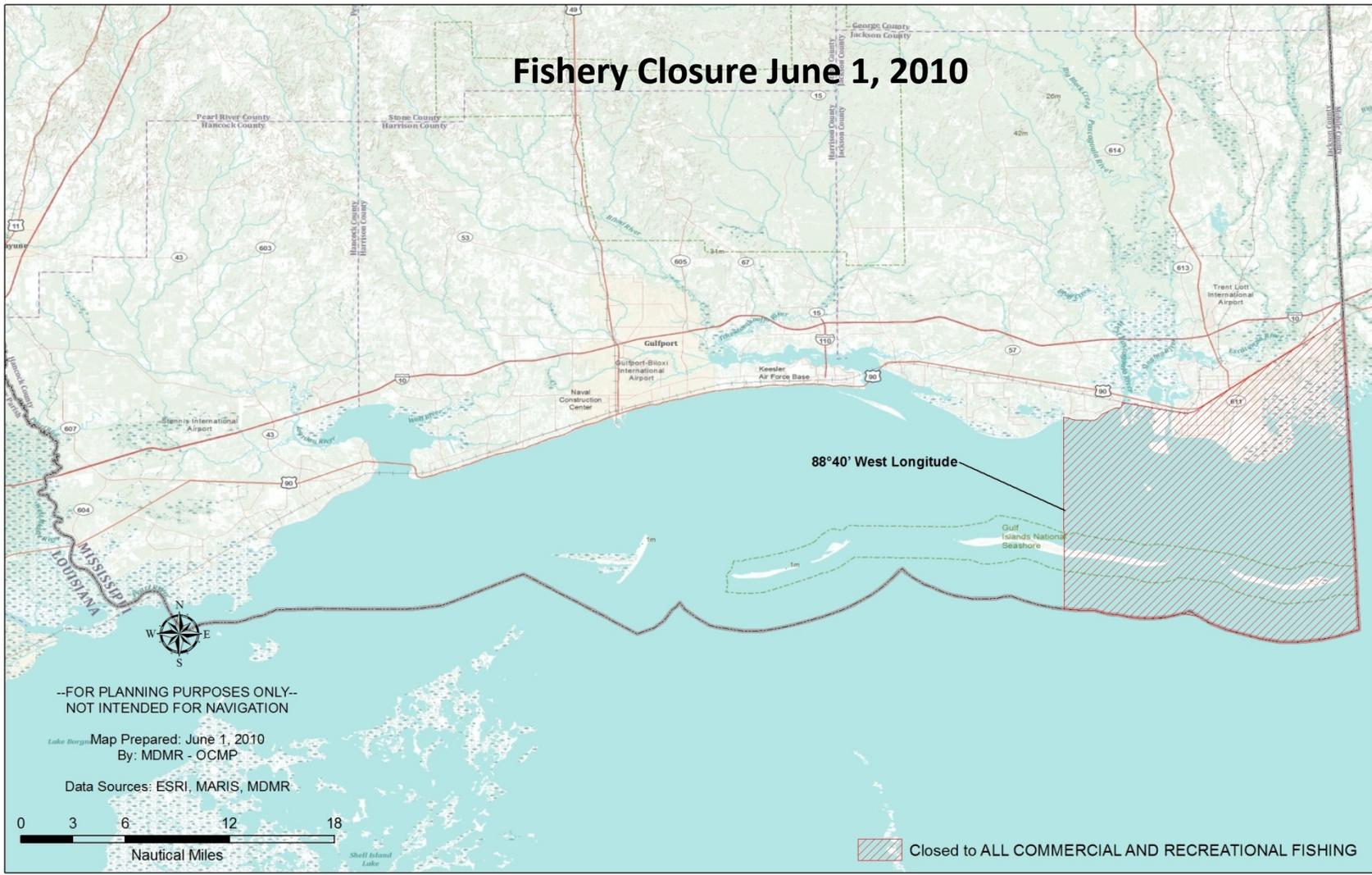


**Maps of 11 Precautionary
Fisheries Closures**

Starting June 1, 2010 through July 1, 2010

**No Seafood Samples Tested Have
Approached Levels of Concern**

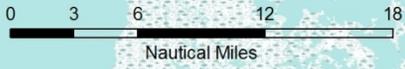
Fishery Closure June 1, 2010



--FOR PLANNING PURPOSES ONLY--
NOT INTENDED FOR NAVIGATION

Map Prepared: June 1, 2010
By: MDMR - OCMP

Data Sources: ESRI, MARIS, MDMR

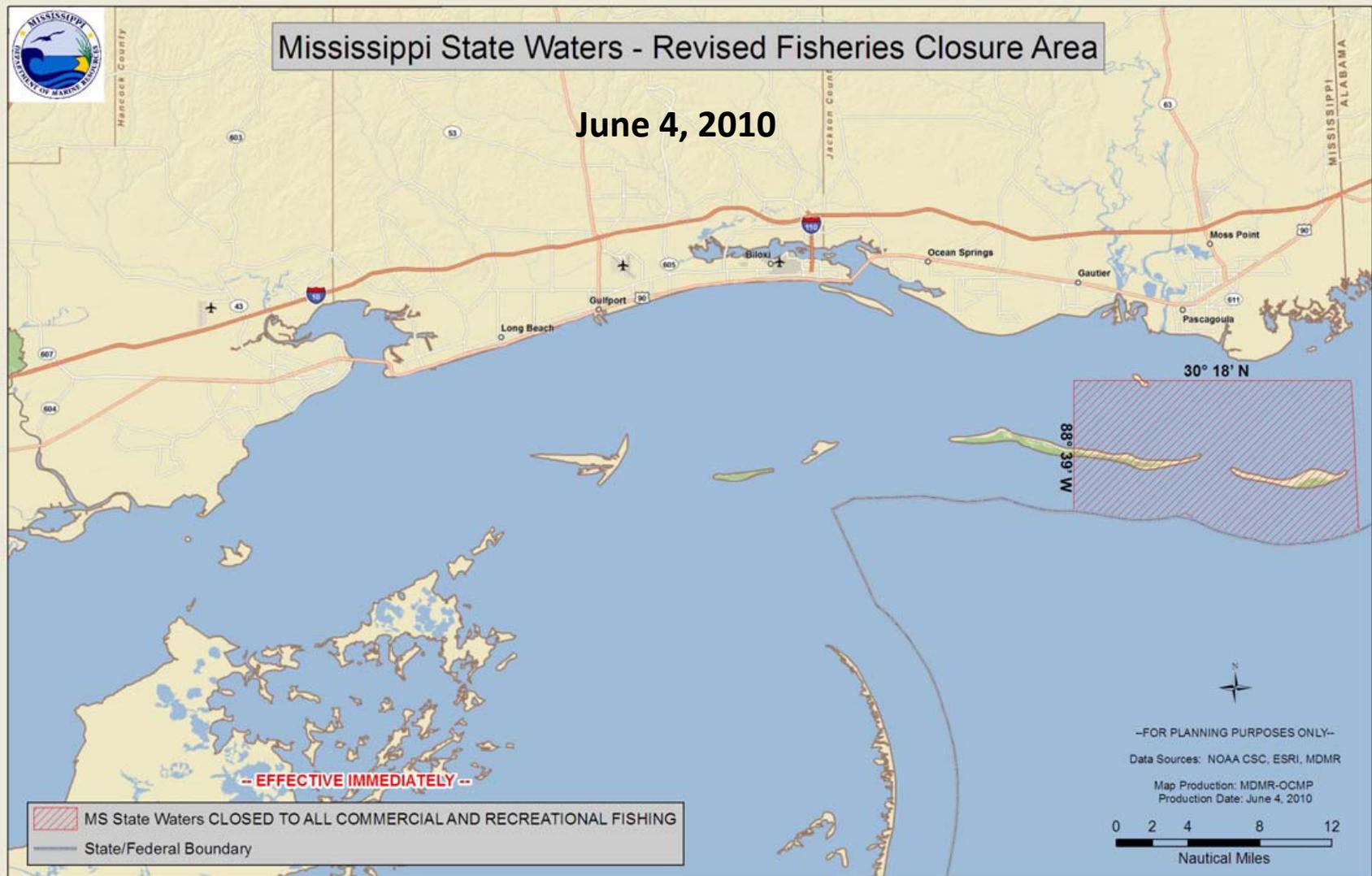


 Closed to ALL COMMERCIAL AND RECREATIONAL FISHING



Mississippi State Waters - Revised Fisheries Closure Area

June 4, 2010



-- EFFECTIVE IMMEDIATELY --

MS State Waters CLOSED TO ALL COMMERCIAL AND RECREATIONAL FISHING
 State/Federal Boundary

-FOR PLANNING PURPOSES ONLY-

Data Sources: NOAA CSC, ESRI, MDMR

Map Production: MDMR-OCMP

Production Date: June 4, 2010

0 2 4 8 12
Nautical Miles

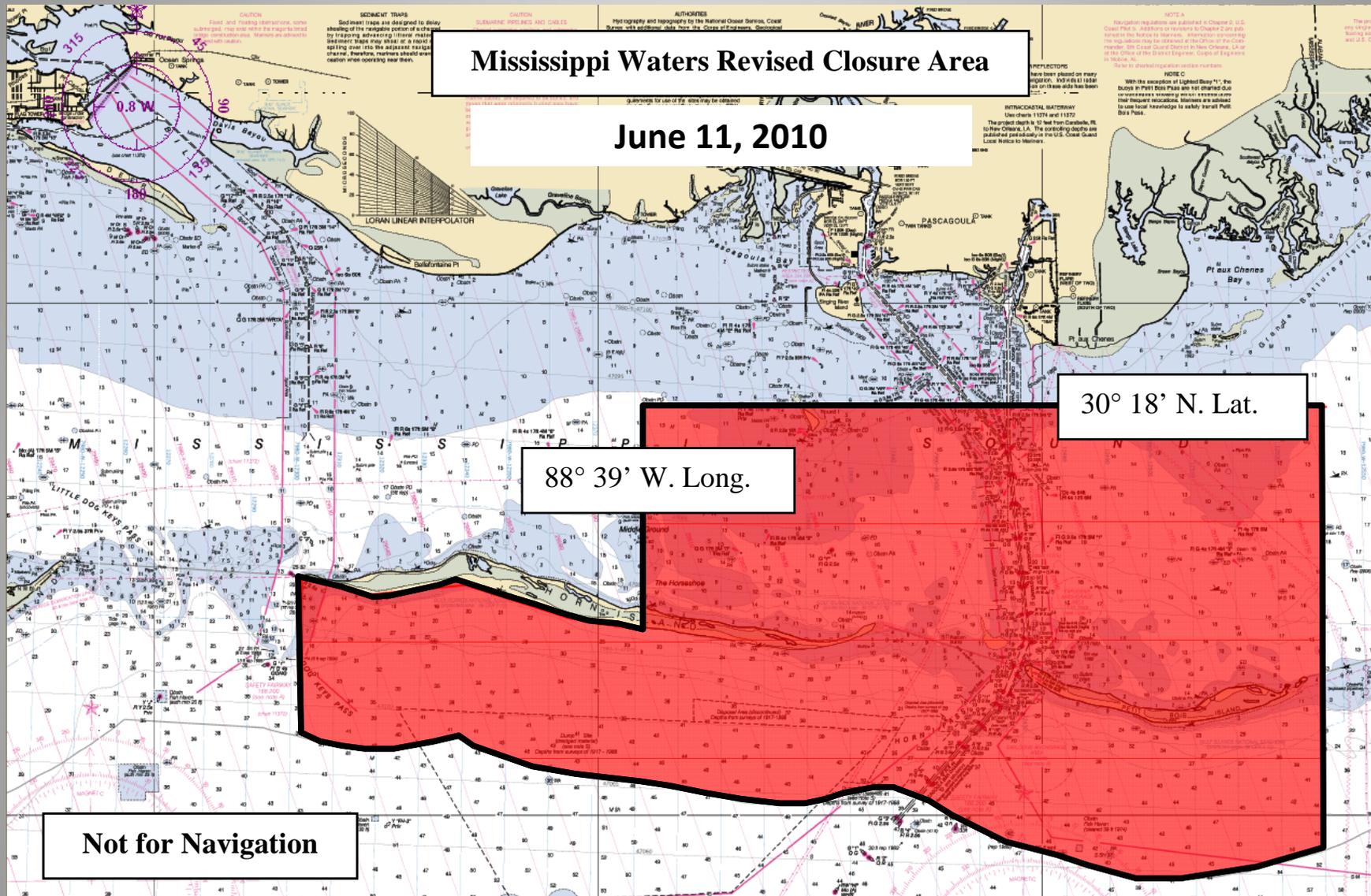
Mississippi Waters Revised Closure Area

June 11, 2010

30° 18' N. Lat.

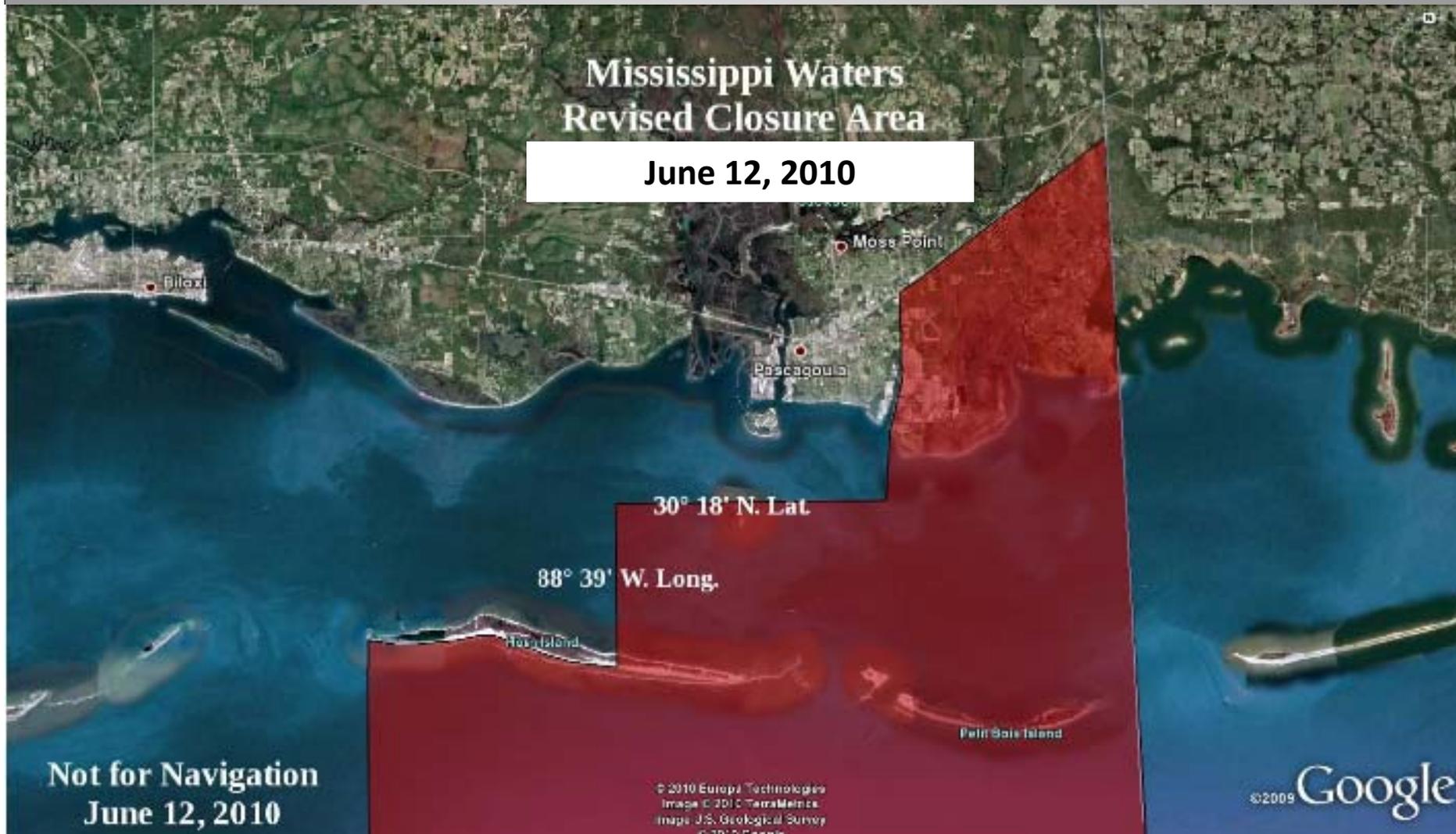
88° 39' W. Long.

Not for Navigation



Mississippi Waters Revised Closure Area

June 12, 2010

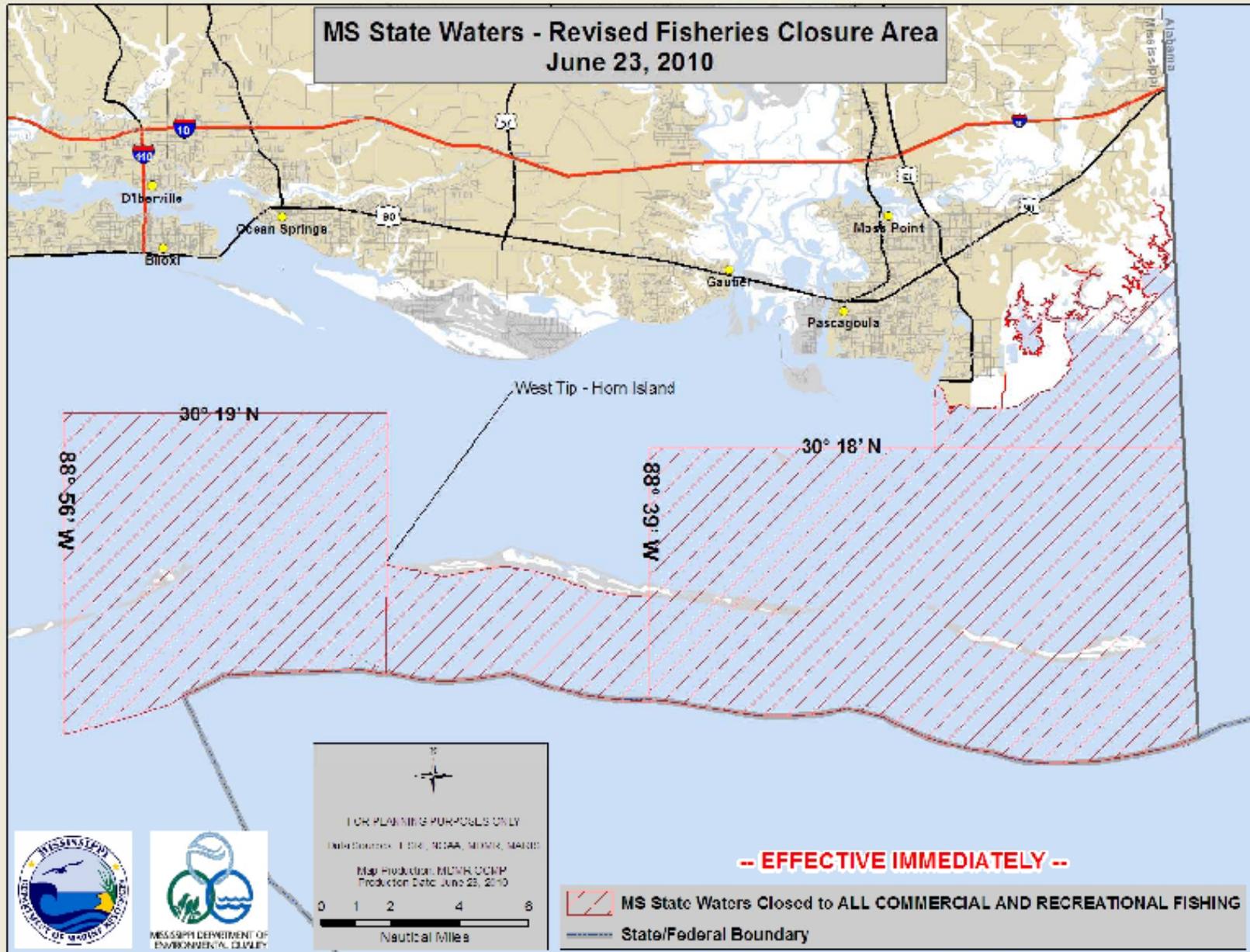


Not for Navigation
June 12, 2010

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MS State Waters - Revised Fisheries Closure Area June 23, 2010



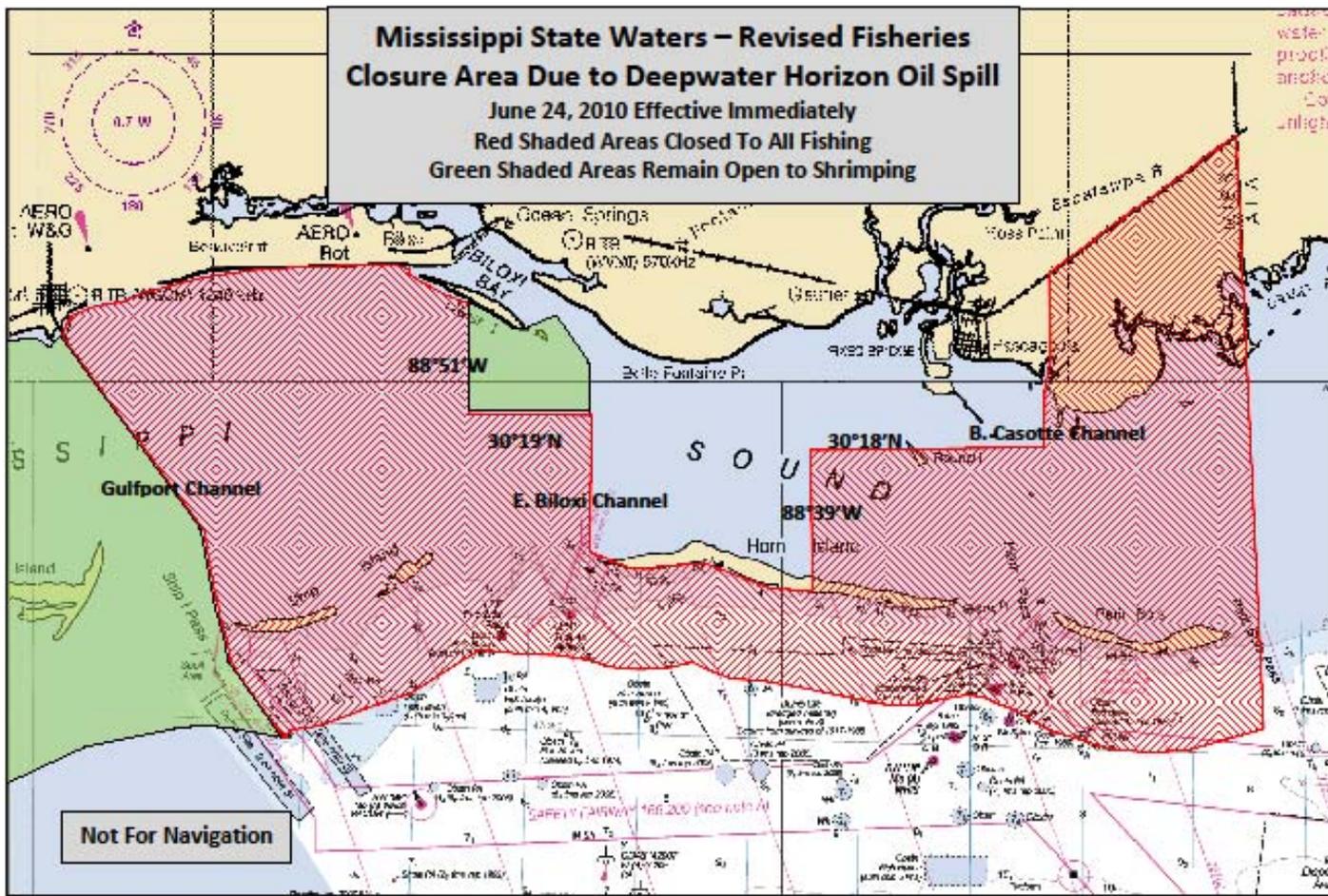
FOR PLANNING PURPOSES ONLY
Data Sources: USGS, NOAA, MDR, MDEQ
Map Production: MDR/DCMP
Production Date: June 23, 2010

0 1 2 4 8
Nautical Miles

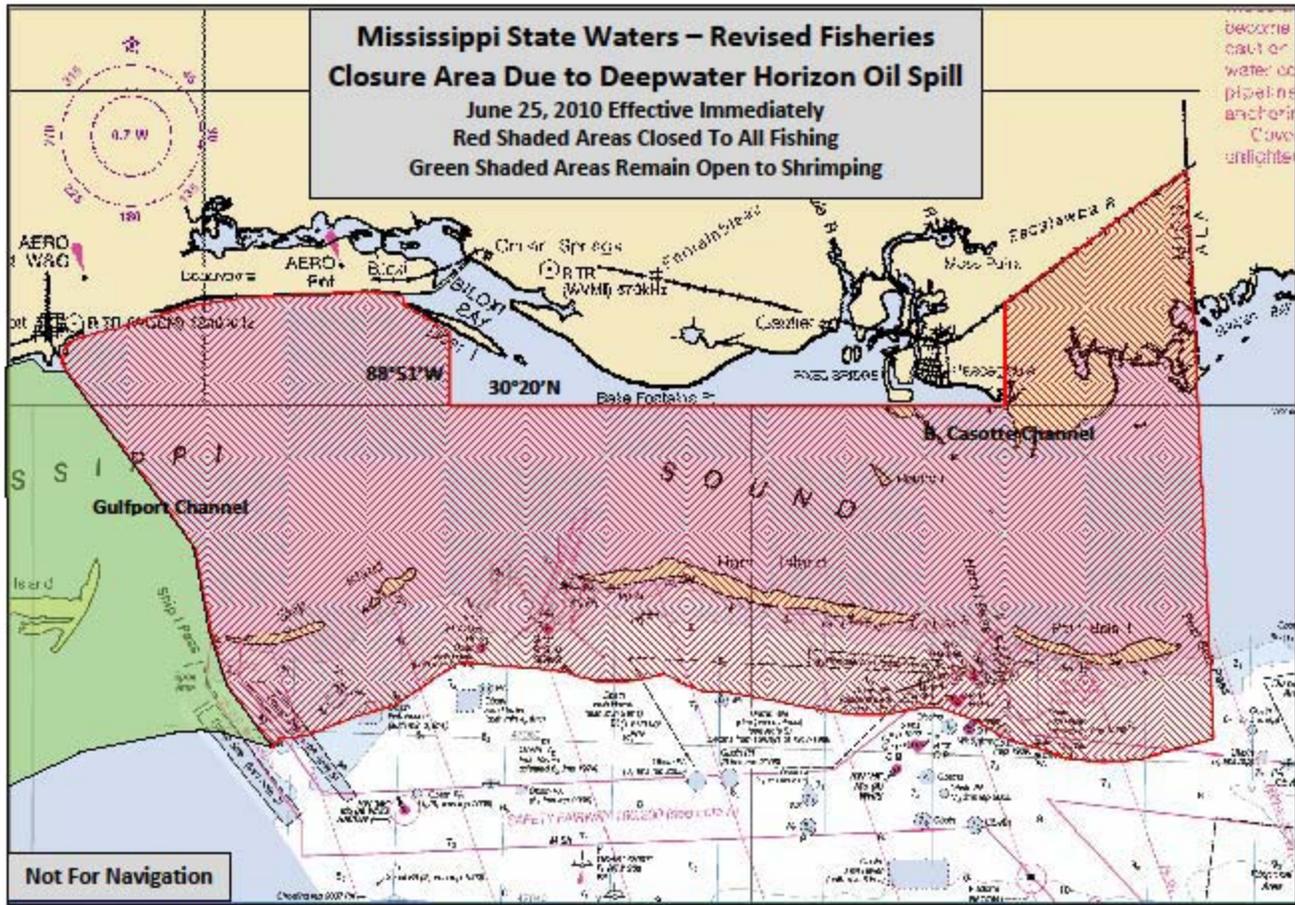
-- EFFECTIVE IMMEDIATELY --

- MS State Waters Closed to ALL COMMERCIAL AND RECREATIONAL FISHING
- State/Federal Boundary

**Mississippi State Waters – Revised Fisheries
Closure Area Due to Deepwater Horizon Oil Spill**
June 24, 2010 Effective Immediately
Red Shaded Areas Closed To All Fishing
Green Shaded Areas Remain Open to Shrimping

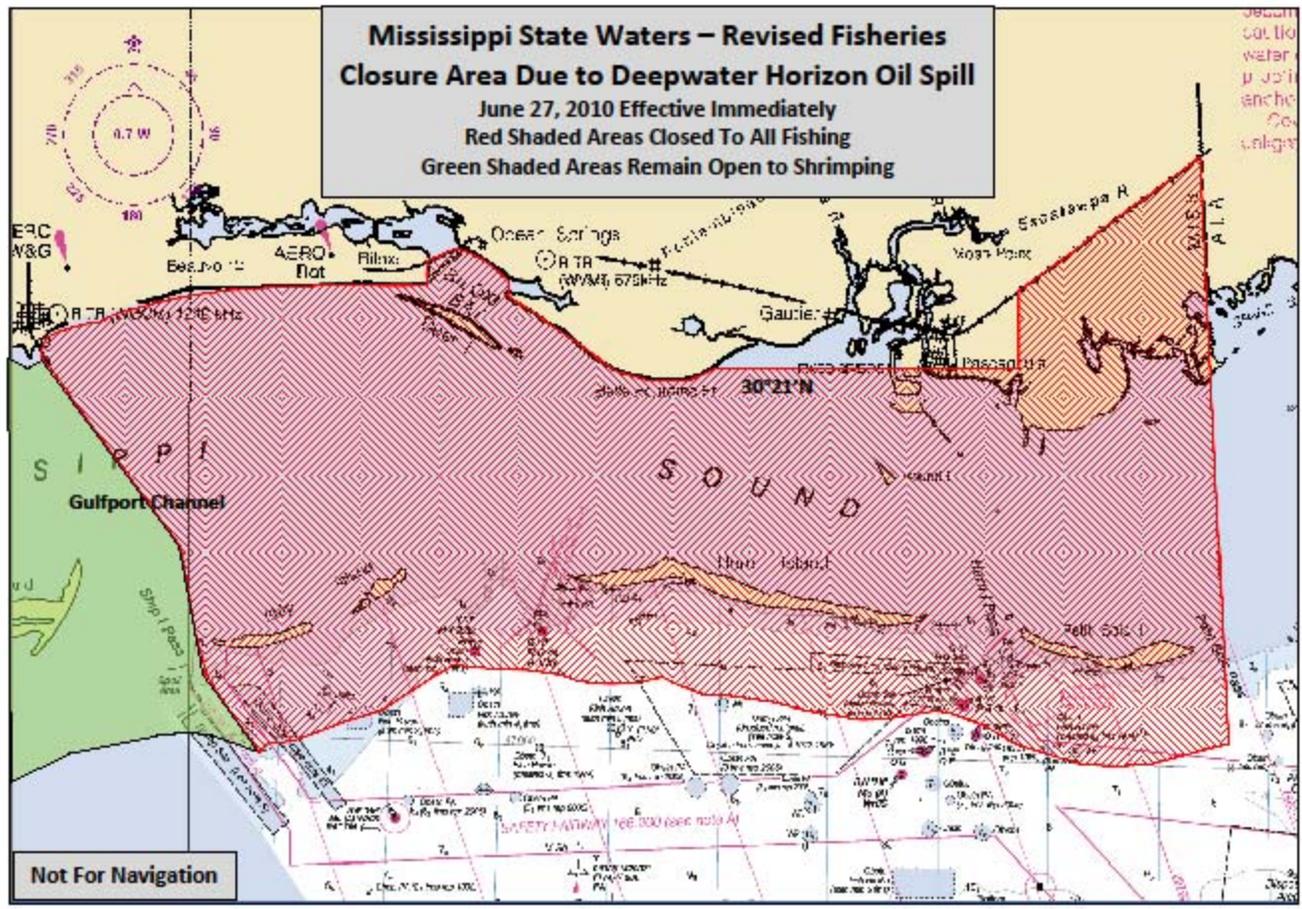


**Mississippi State Waters – Revised Fisheries
Closure Area Due to Deepwater Horizon Oil Spill**
June 25, 2010 Effective Immediately
Red Shaded Areas Closed To All Fishing
Green Shaded Areas Remain Open to Shrimping



Not For Navigation

**Mississippi State Waters – Revised Fisheries
Closure Area Due to Deepwater Horizon Oil Spill
June 27, 2010 Effective Immediately
Red Shaded Areas Closed To All Fishing
Green Shaded Areas Remain Open to Shrimping**



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**MS State Waters - Revised Fisheries Closure Area
Due to Deepwater Horizon Oil Spill
June 29, 2010**



89° 9.22'



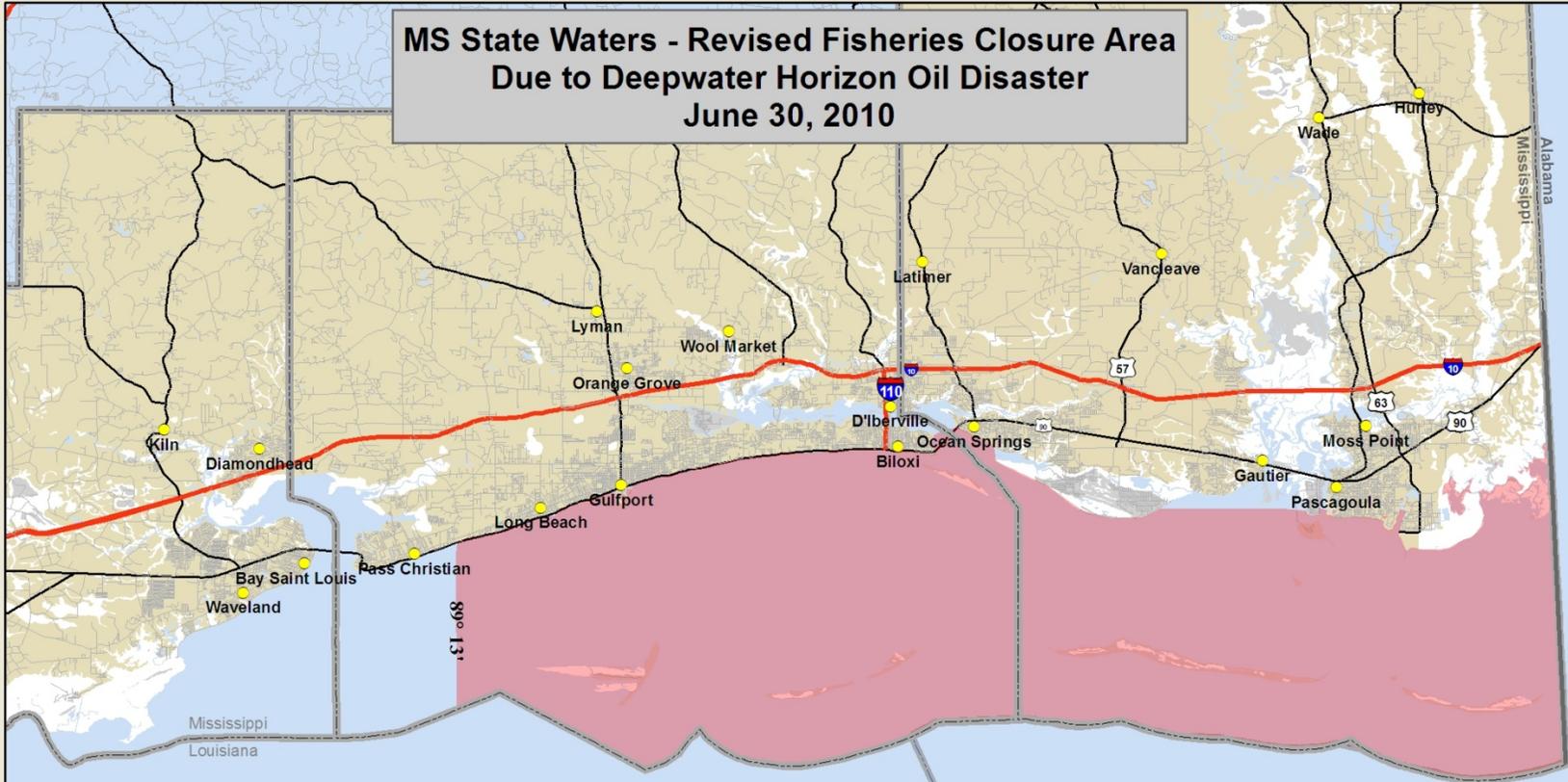
FOR PLANNING PURPOSES ONLY
 Data Source: NOAA, MDEQ, MARD
 Map Projection: NAD 83 UTM
 Production Date: June 26, 2010

Nautical Miles

-- EFFECTIVE IMMEDIATELY --

- MS State Waters Closed to ALL COMMERCIAL AND RECREATIONAL FISHING
- Open to Commercial and Recreational Shrimping - Effective 29 June 2010
- State/Federal Boundary

MS State Waters - Revised Fisheries Closure Area Due to Deepwater Horizon Oil Disaster June 30, 2010



N

--FOR PLANNING PURPOSES ONLY--

Data Sources: ESRI, NOAA, MDMR, MARIS

Map Production: MDMR-OCMP
Production Date: June 30, 2010

0 1.5 3 6 9
Nautical Miles



-- EFFECTIVE IMMEDIATELY --

- MS State Waters Closed to ALL COMMERCIAL AND RECREATIONAL FISHING
- County/State Boundary
- State/Federal Boundary

**MS State Waters - Revised Fisheries Closure Area
Due to Deepwater Horizon Oil Disaster
July 1, 2010**



-- EFFECTIVE IMMEDIATELY --



FOR PLANNING PURPOSES ONLY
 Data Sources: ESRI, NOAA, MDMR, VARIS
 Map Production: MDMR-DCMP
 Production Date: July 1, 2010

- MS State Waters Closed to ALL COMMERCIAL AND RECREATIONAL FISHING
- County/State Boundary
- State/Federal Boundary

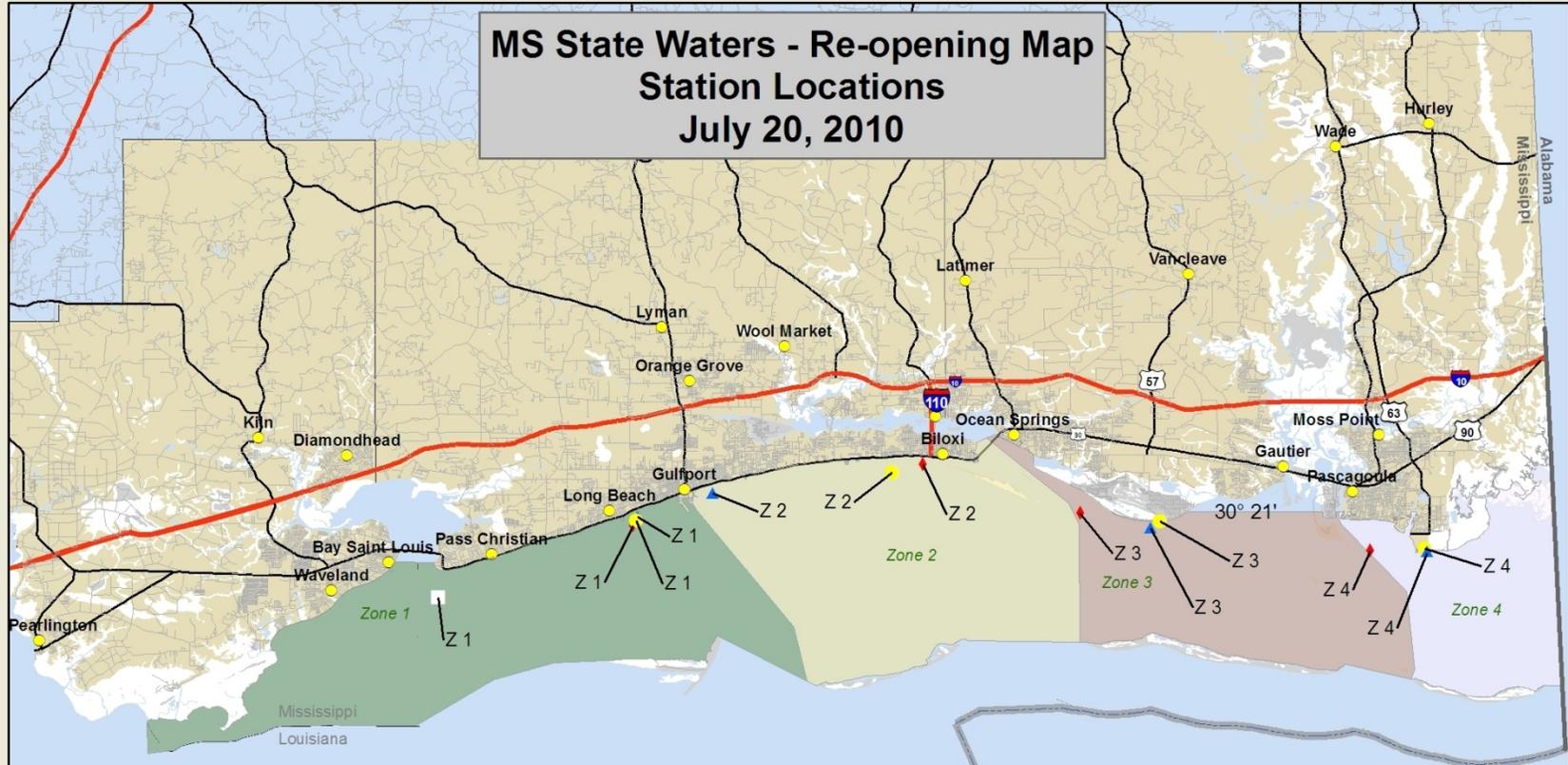
Laboratories Used to Analyze
Tissue Samples:
NOAA Pascagoula Laboratory
FDA Laboratory
Mississippi State University
Micro-Methods

Fisheries Reopening Protocol

The procedures for reopening a fishery or proving seafood tissue samples are safe for consumption involve a comprehensive and concerted effort based on extensive sampling and testing conducted by the MDMR, MDEQ, NOAA and FDA. The steps involved in the process of reopening of a fishery that was closed as a precaution due to oil in the area are as follows:

1. There must be a low threat of oil exposure; the threat of exposure will be based on past observations and the status of the spill and conditions.
2. Evaluation of oil movement based on confirmation that the closure area is free of visible oil on the surface by visual observation and/or aerial reconnaissance or water testing.
3. Assessment of seafood contamination by sensory testing – Determine if the seafood is contaminated by tissue collection and sensory testing. The acceptable condition is that all specimens must pass sensory testing conducted by a NOAA-FDA expert sensory panel or a NOAA-FDA trained panel of state assessors.
4. Assessment of seafood contamination by chemical analyses – Chemical analyses are performed on samples that pass sensory assessment to confirm that PAH concentrations are below the applicable FDA levels of concern for human health. Tissue samples will continue to be tested to insure seafood quality.

MS State Waters - Re-opening Map Station Locations July 20, 2010



Tissue Sampling Sites		FISHERIES OPENING ZONES	
▲	Crab	Zone 1	1
●	Fish	Zone 2	2
□	Oyster	Zone 3	3
◆	Shrimp	Zone 4	4
		State/Federal Boundary	

N

--FOR PLANNING PURPOSES ONLY--

Data Sources: ESRI, NOAA, MDMR, MARIS

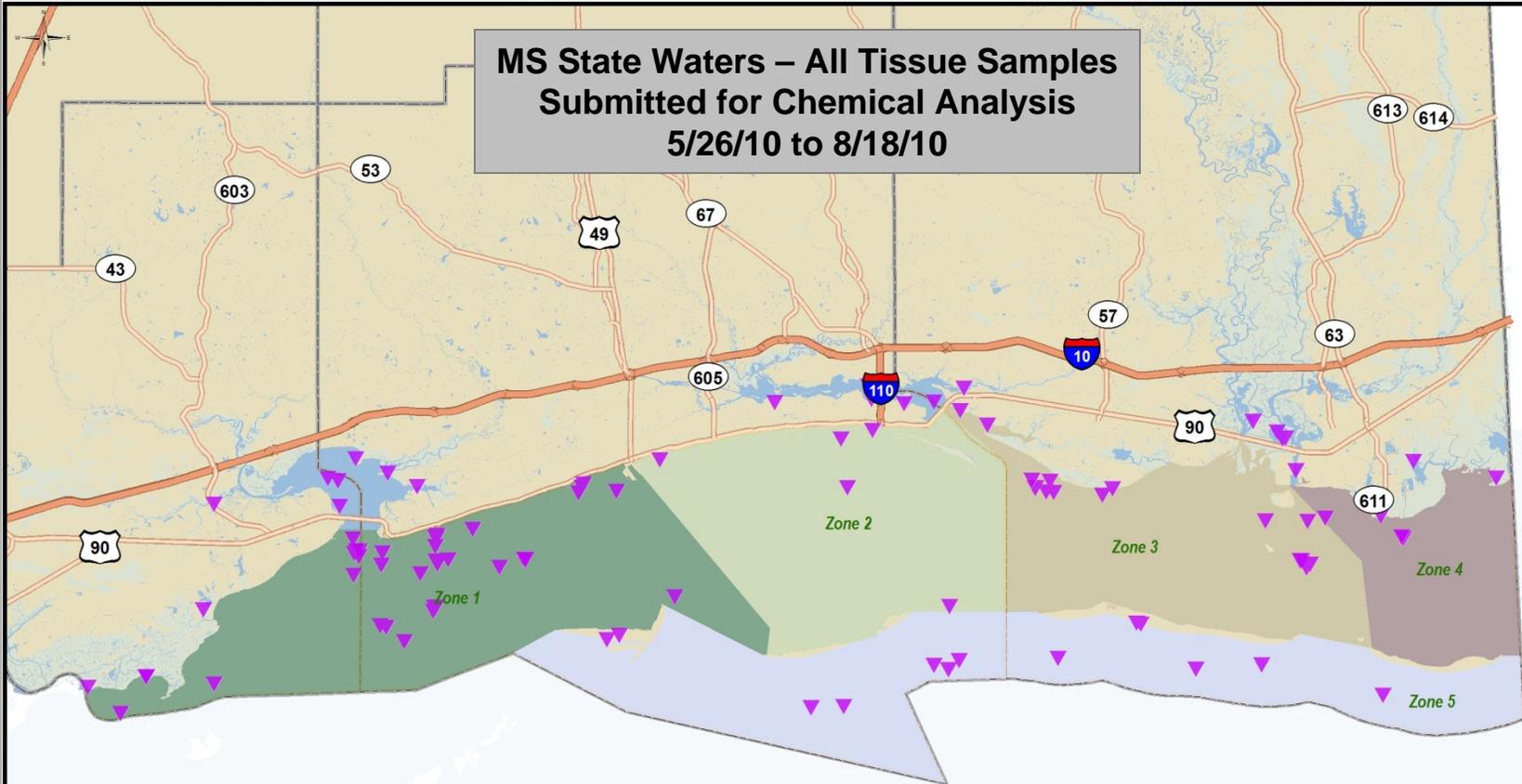
Map Production: MDMR-OCMP
Production Date: July 20, 2010

0 1.5 3 6 9
Nautical Miles



Tuesday, July 20, 2010 1:33:48 PM
C:\Documents and Settings\james\My Documents\MS State Waters\Map\msstatewaters.docx

MS State Waters – All Tissue Samples Submitted for Chemical Analysis 5/26/10 to 8/18/10



This map produced by the Department of Environmental Quality (MDEQ), Office of Pollution Control.
All map data are from MDMR and MDEQ.
Map Projection: WGS1984
The Mississippi Department of Environmental Quality makes no warranties, expressed or implied, as to the accuracy, completeness, currentness, reliability, or suitability for any particular purpose of the data contained on this map.

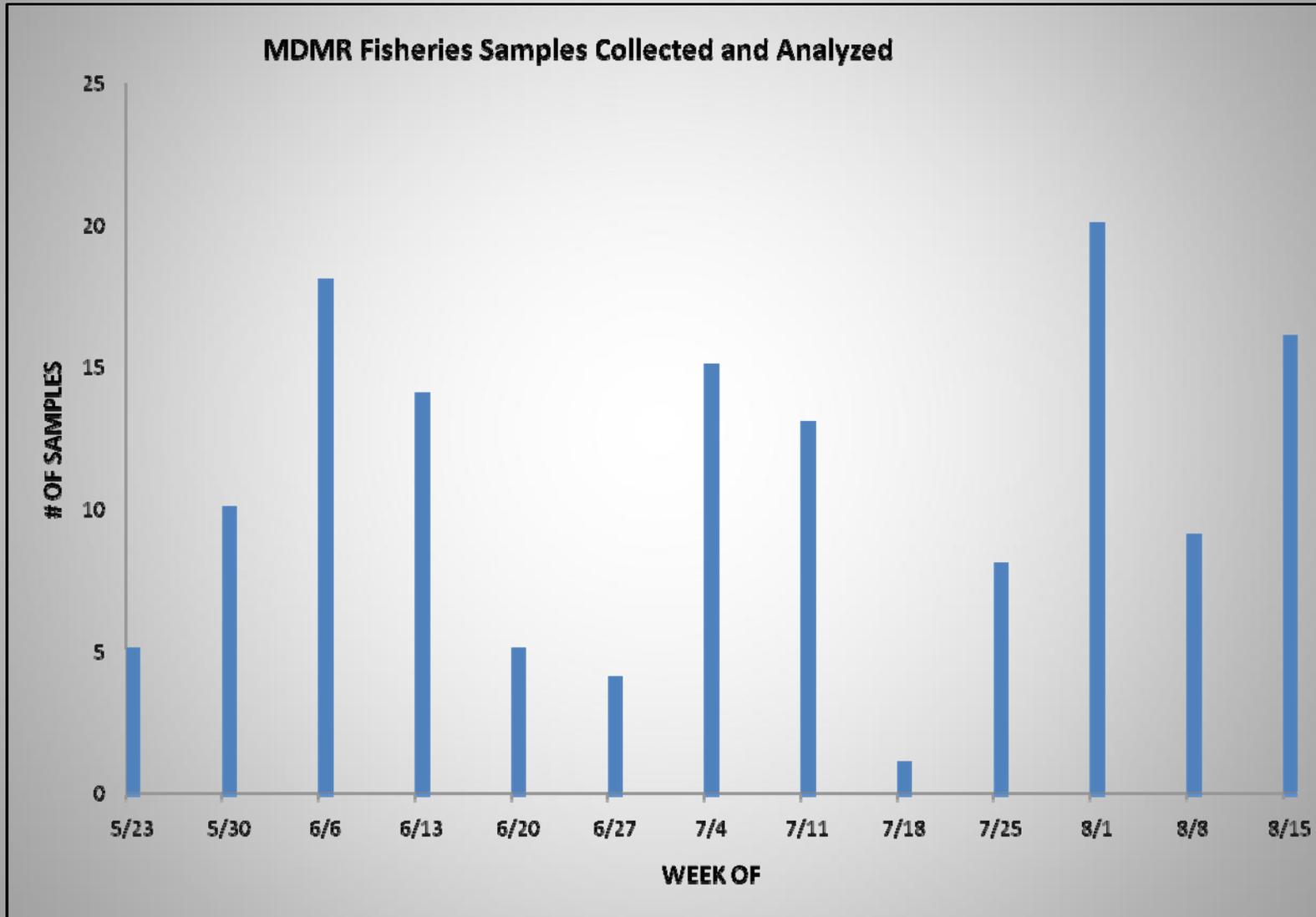


▼ Tissue Sampling Sites

0 5 10 Miles

Map prepared on 27Aug2010

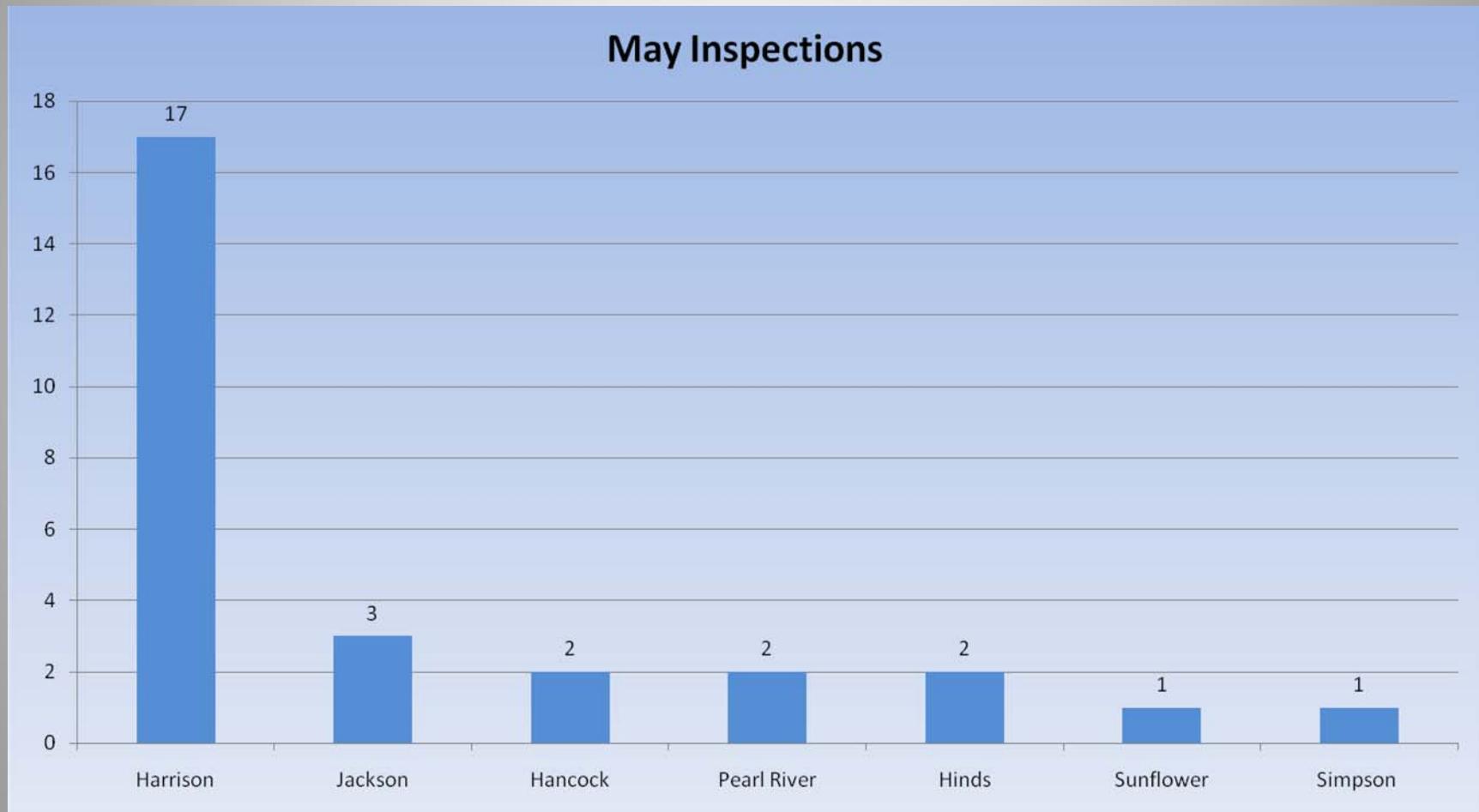
Fisheries Reopening Tissue Samples



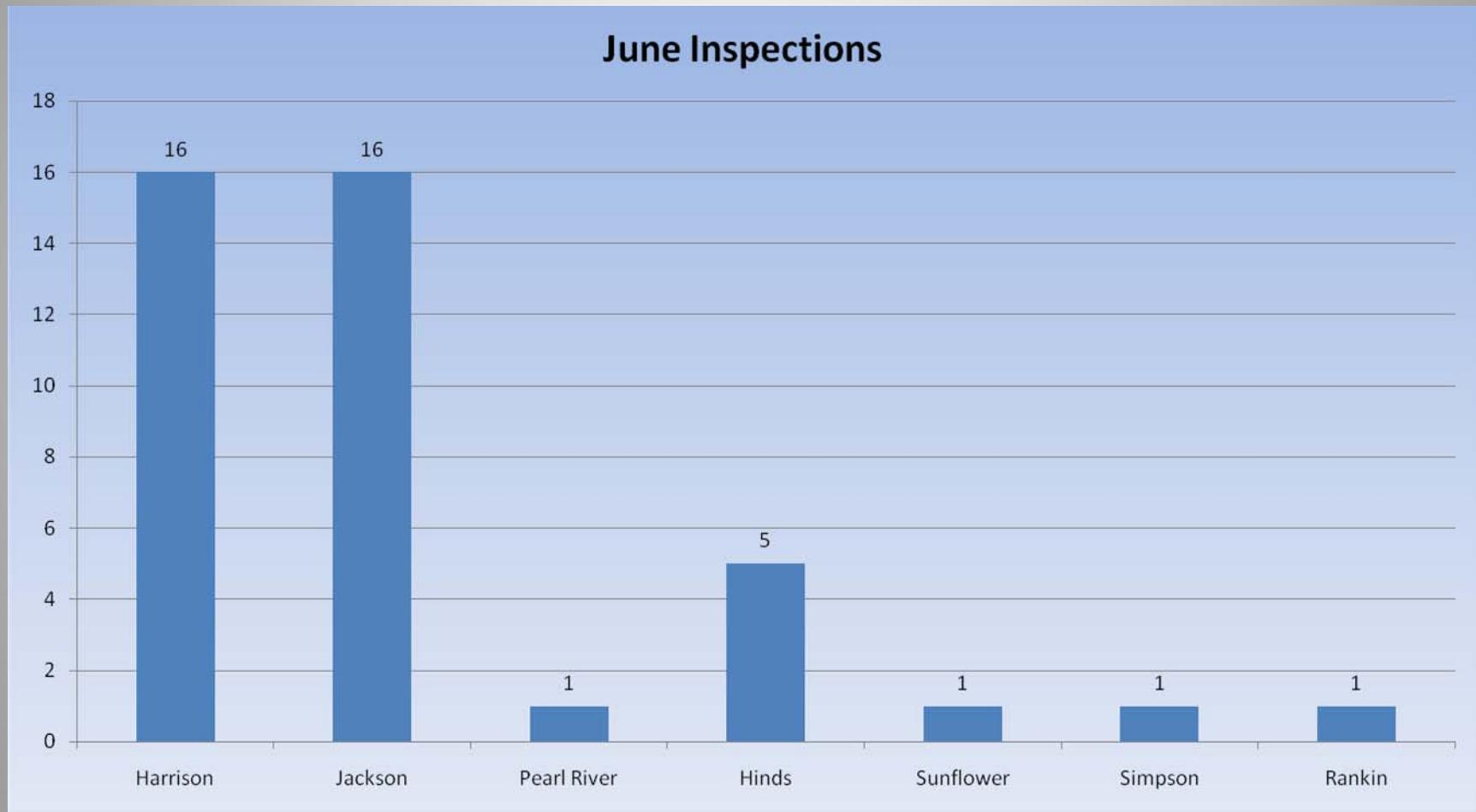
Seafood Sampling Results

Sample Dates: 5/26/10- 8/18/10	Total	Analyzed	Above Levels of Concern	Lab Results Pending
Shrimp	37	31	0	6
Crab	27	19	0	8
Finfish	51	35	0	16
Oysters	27	21	0	6
All Seafood	142	106	0	36

Dealers/Processors/Retailers Inspections



Dealers/Processors/Retailers Inspections



Dealers/Processors/Retailers Inspections

