

# *System Operations Security*



## **Air Security After The Storm**

By: Joseph M. Miller, Air Traffic Security Coordinator

Date: March 22, 2006



**Federal Aviation  
Administration**



# System Operations Security

## Temporary Flight Restrictions (TFR)

**A Temporary Flight Restriction (TFR) is a regulatory action issued via the U.S. Notice to Airmen (NOTAM) system to restrict certain aircraft from operating within a defined area, on a temporary basis, to protect persons or property in the air or on the ground.**



# System Operations Security Temporary Flight Restrictions (TFR)

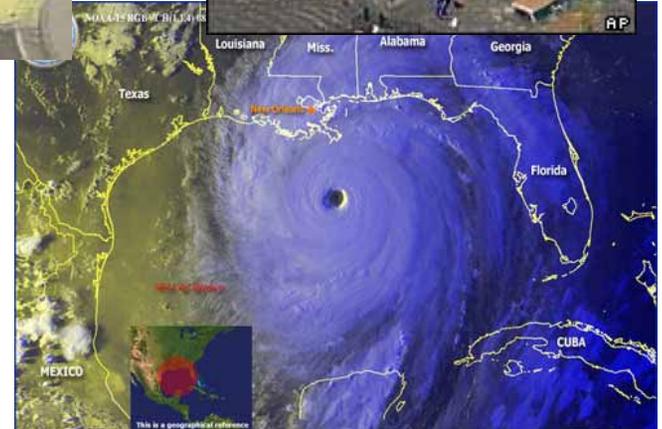
Protect persons and property in the air or on the surface from an existing or imminent hazard associated with an incident on the surface when the presence of low flying aircraft would magnify, alter, spread, or compound that hazard (14 CFR Section 91.137(a)(1))



# System Operations Security

## Temporary Flight Restrictions (TFR)

Provide a safe environment for the operation of disaster relief aircraft (14 CFR Section 91.137(a)(2))



# System Operations Security

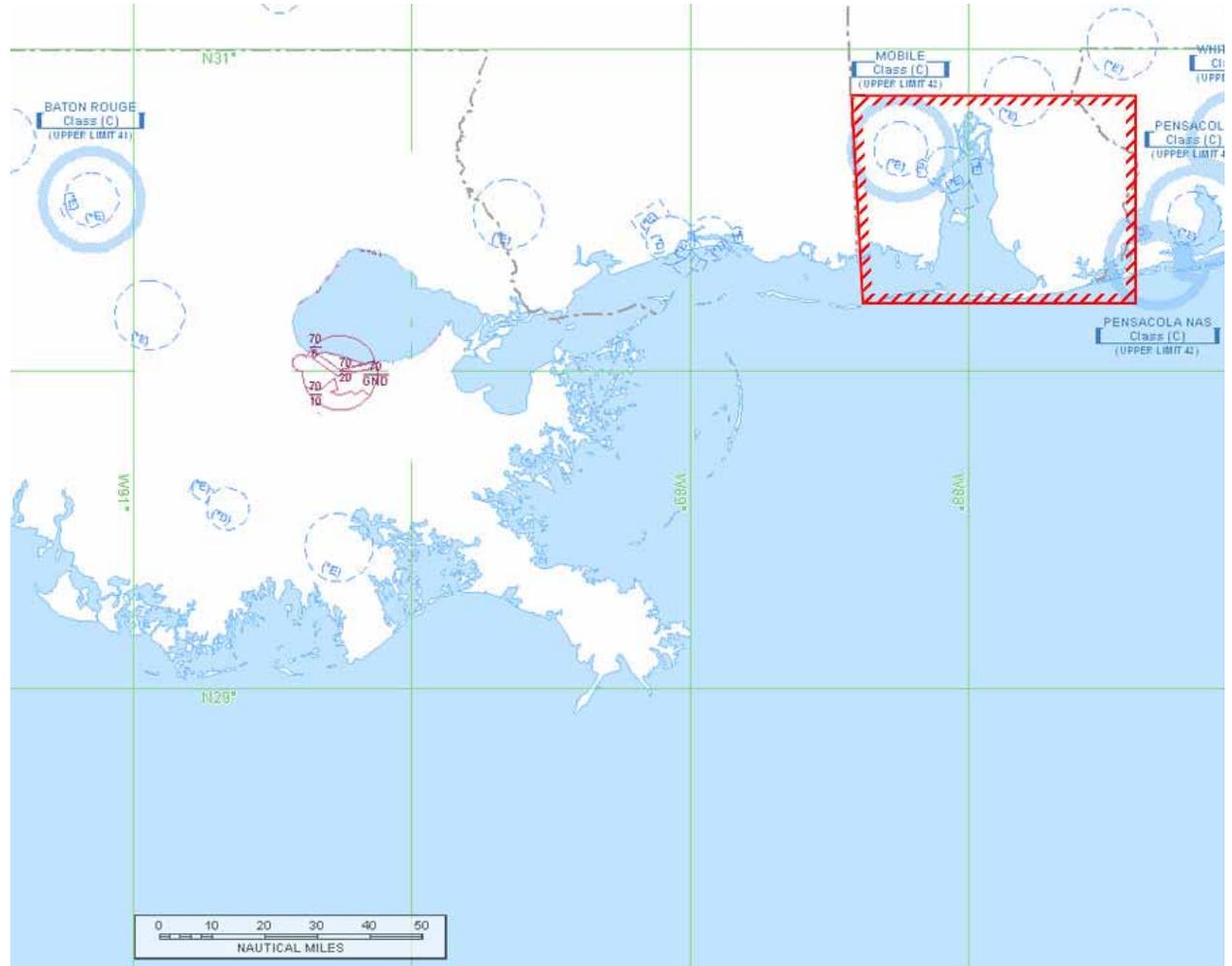
## Temporary Flight Restrictions (TFR)

Prevent an unsafe congestion of sightseeing aircraft above an incident or event which may generate a high degree of public interest (14 CFR Section 91.137(a)(3))



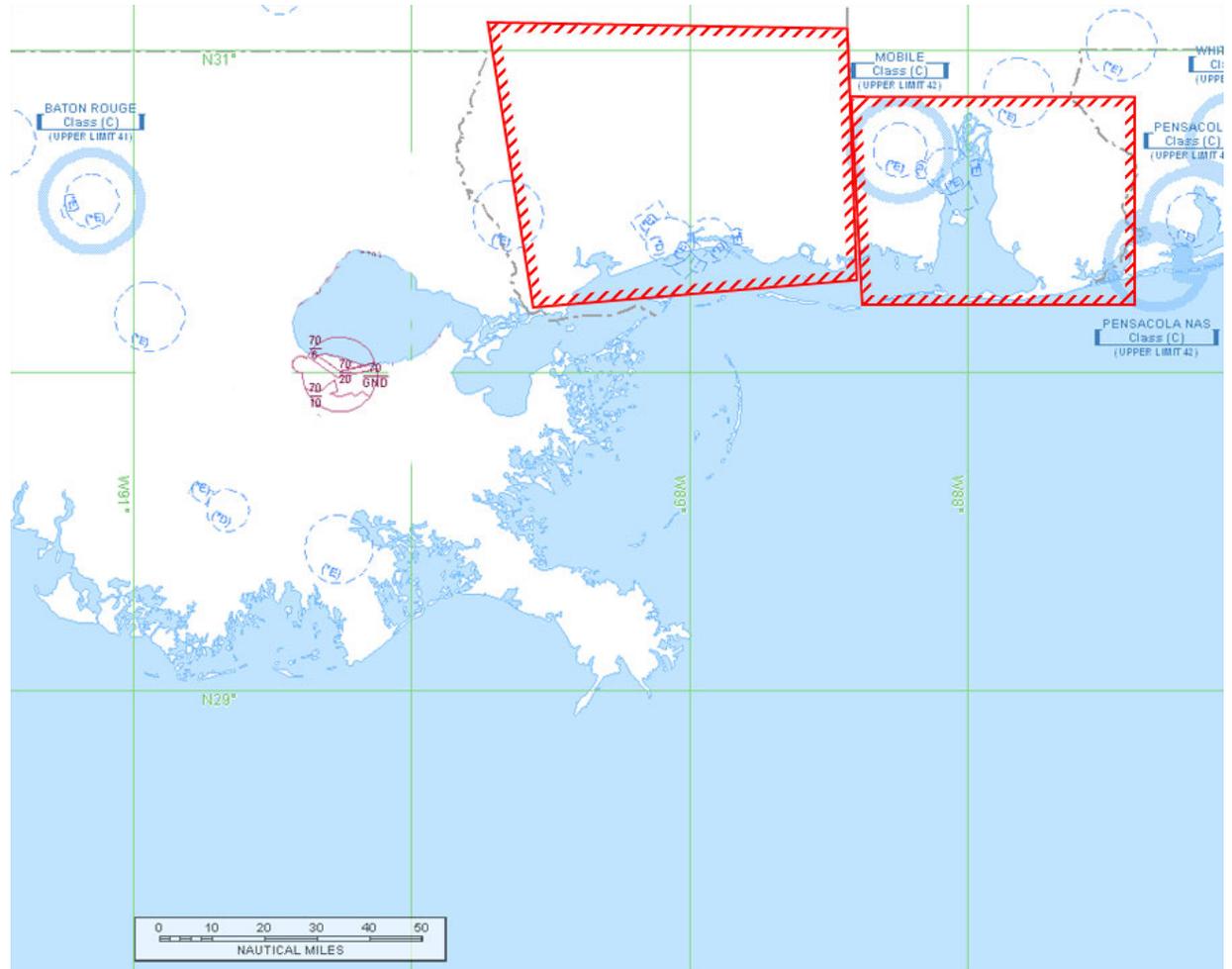
# System Operations Security

14 Hours After  
First Gulf Landfall



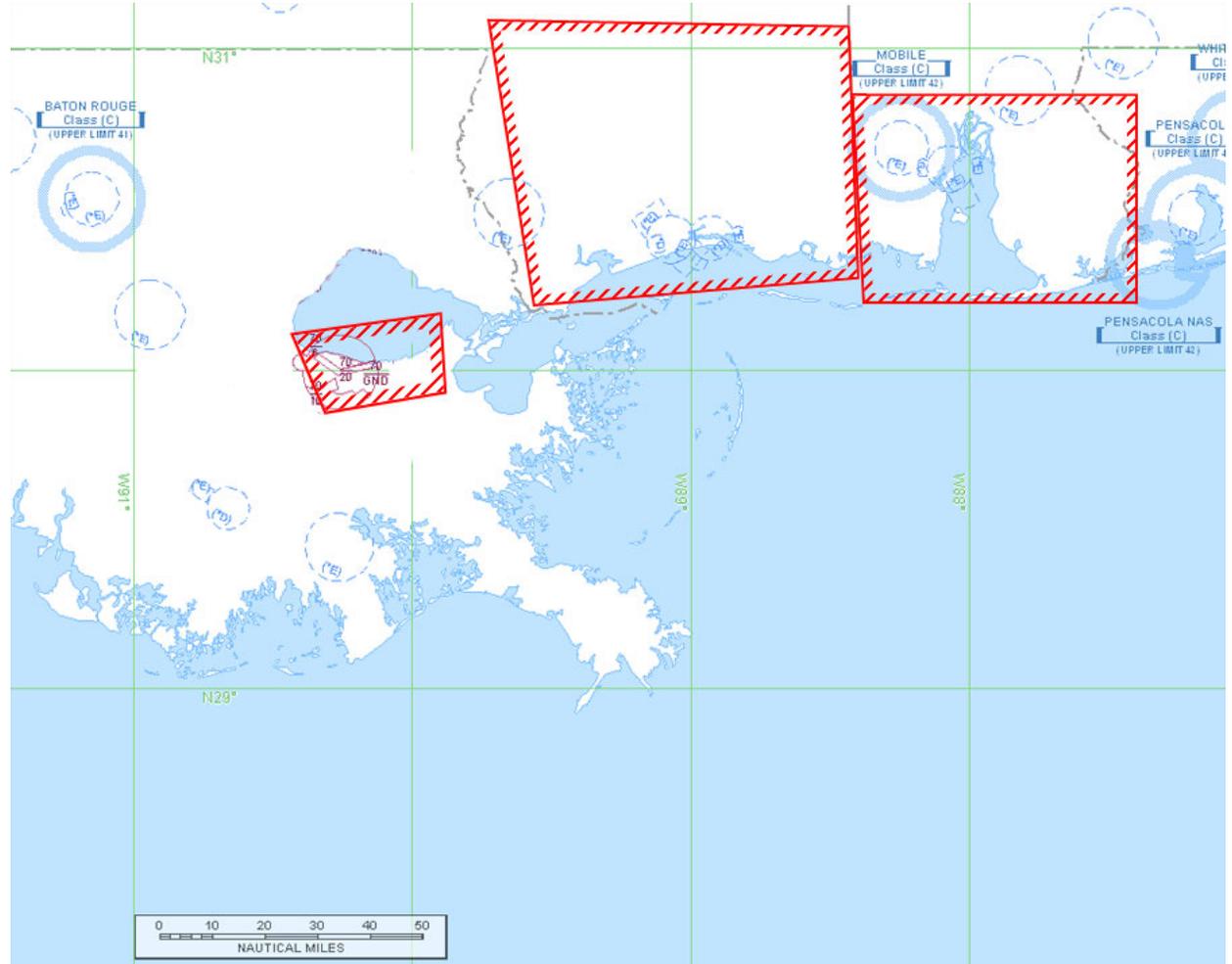
# System Operations Security

**1 Day,  
17 Hours  
After First Gulf  
Landfall**



# System Operations Security

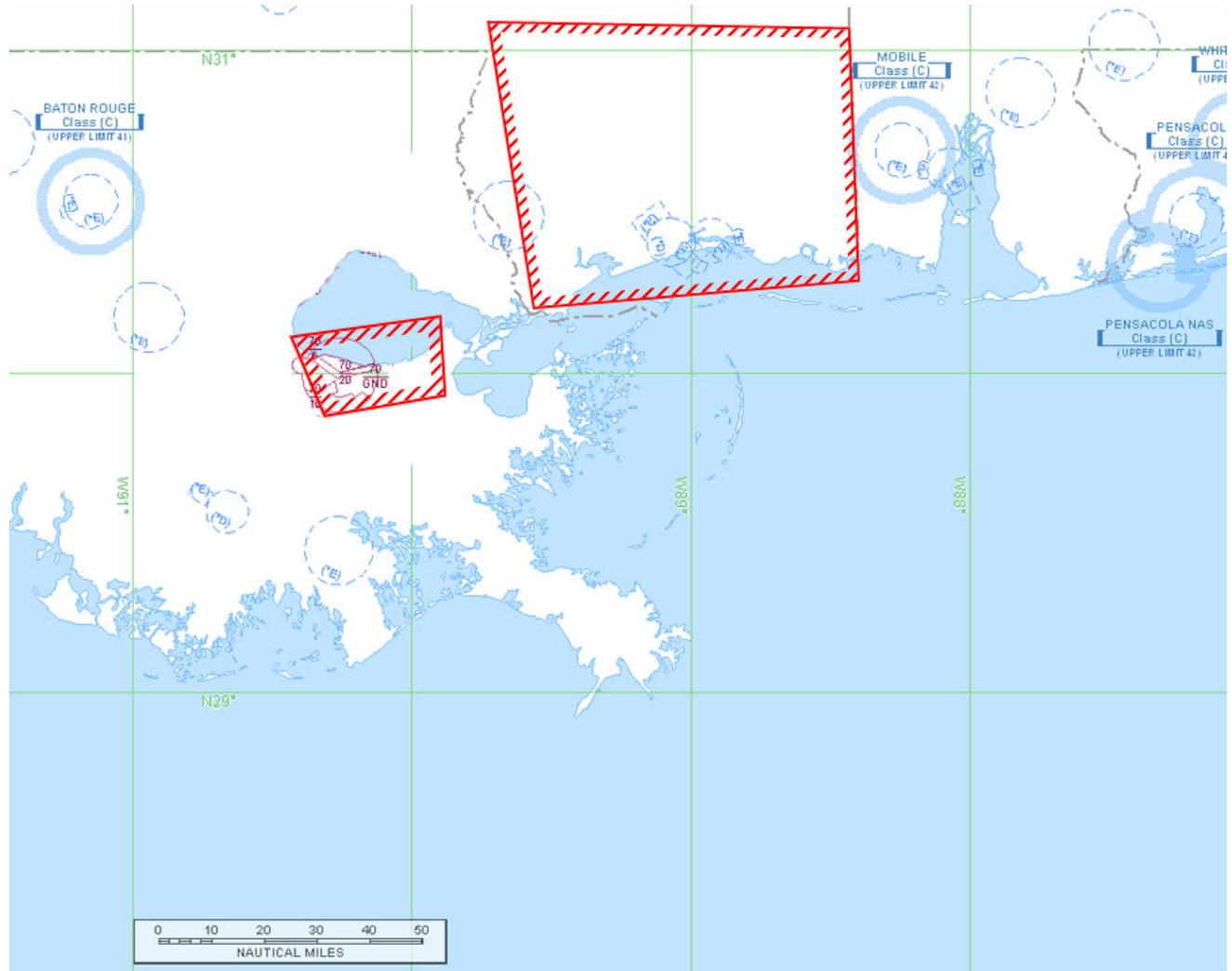
**1 Day,  
17 Hours,  
3 Minutes After  
First Gulf  
Landfall**



# System Operations Security

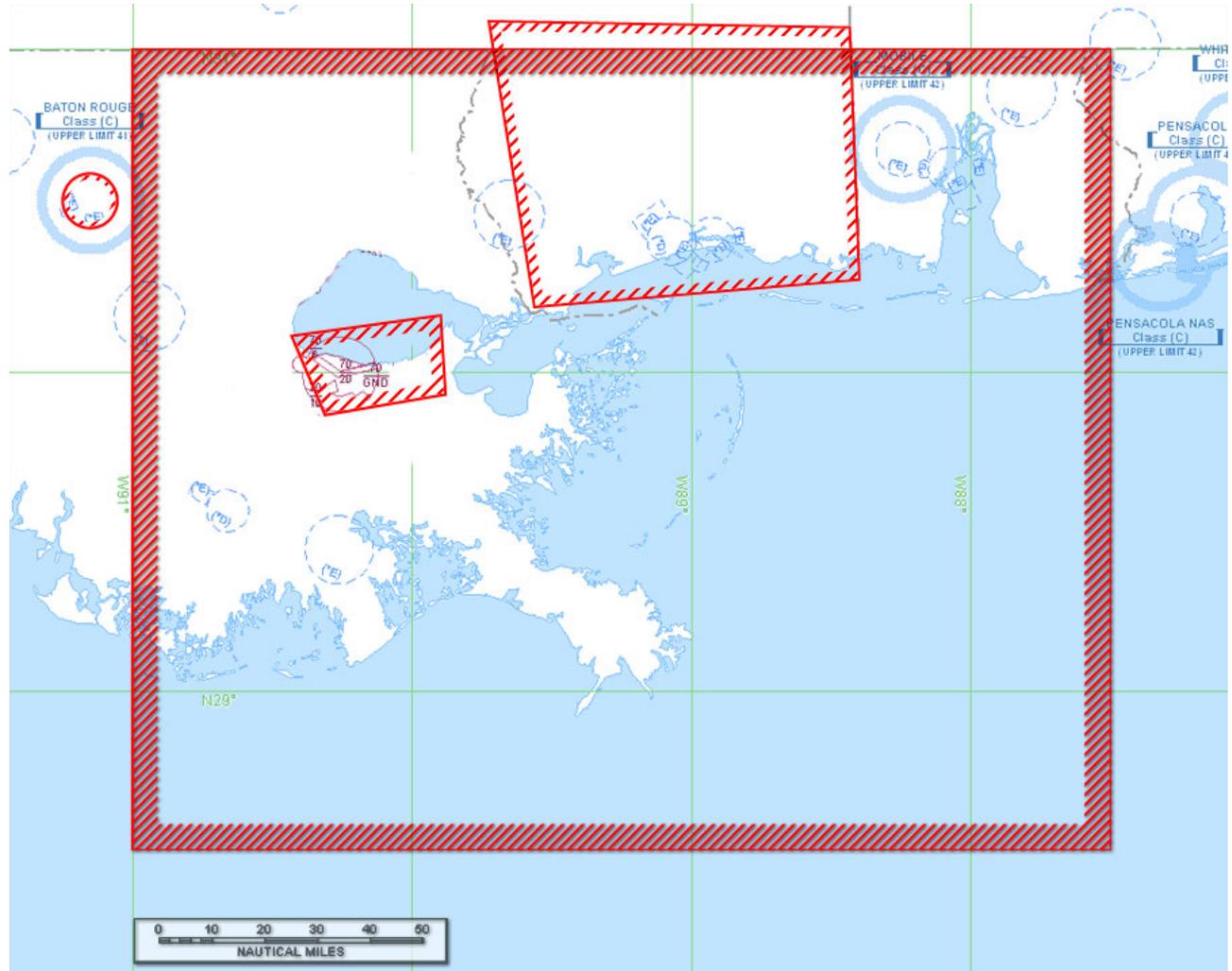
**2 Day,  
6 Hours After  
First Gulf  
Landfall**

**Alabama TFR in  
effect for only  
13 Hours**



# System Operations Security

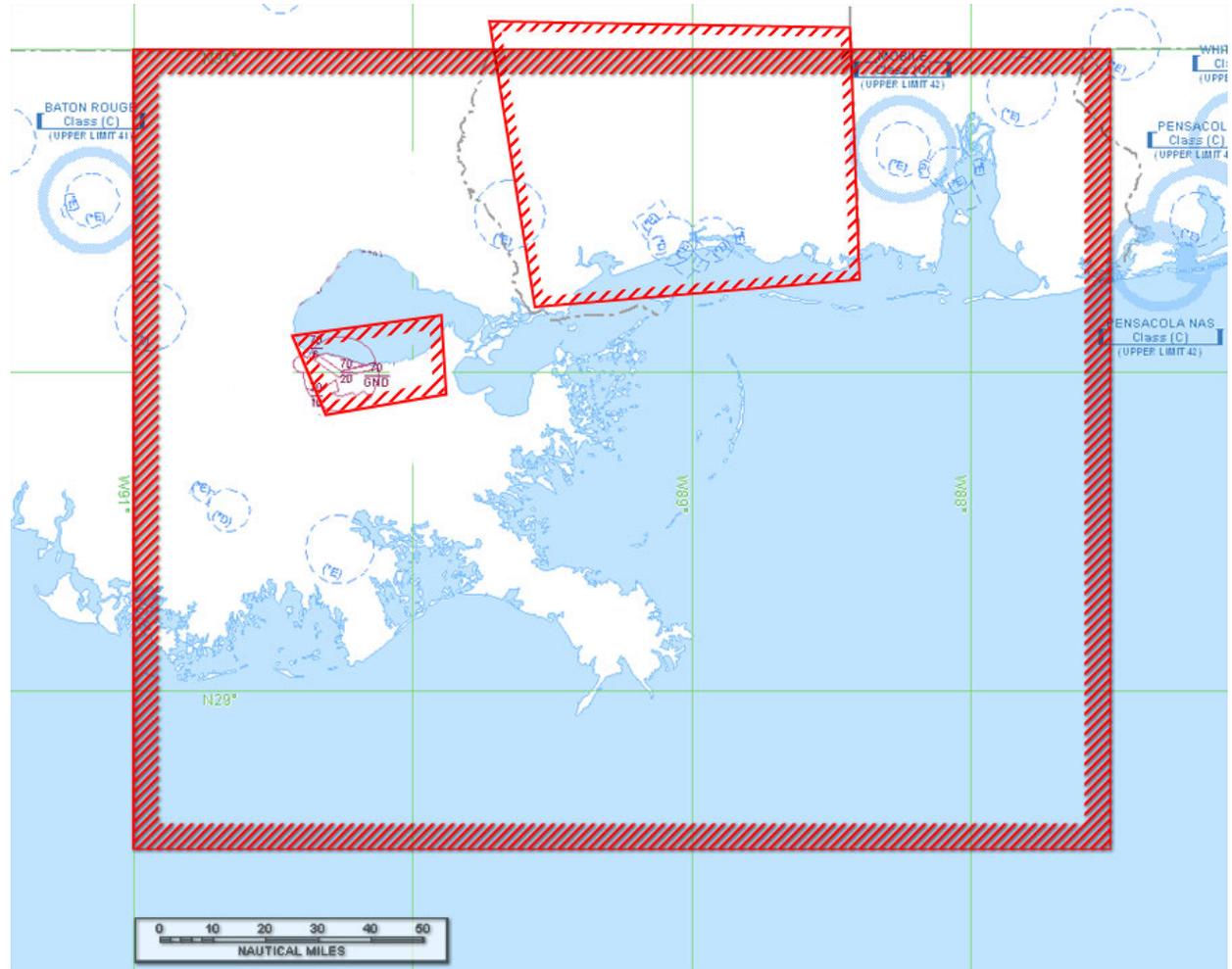
4 Days,  
19 Hours After  
First Gulf  
Landfall



# System Operations Security

**5 Days,  
11 Hours After  
First Gulf  
Landfall**

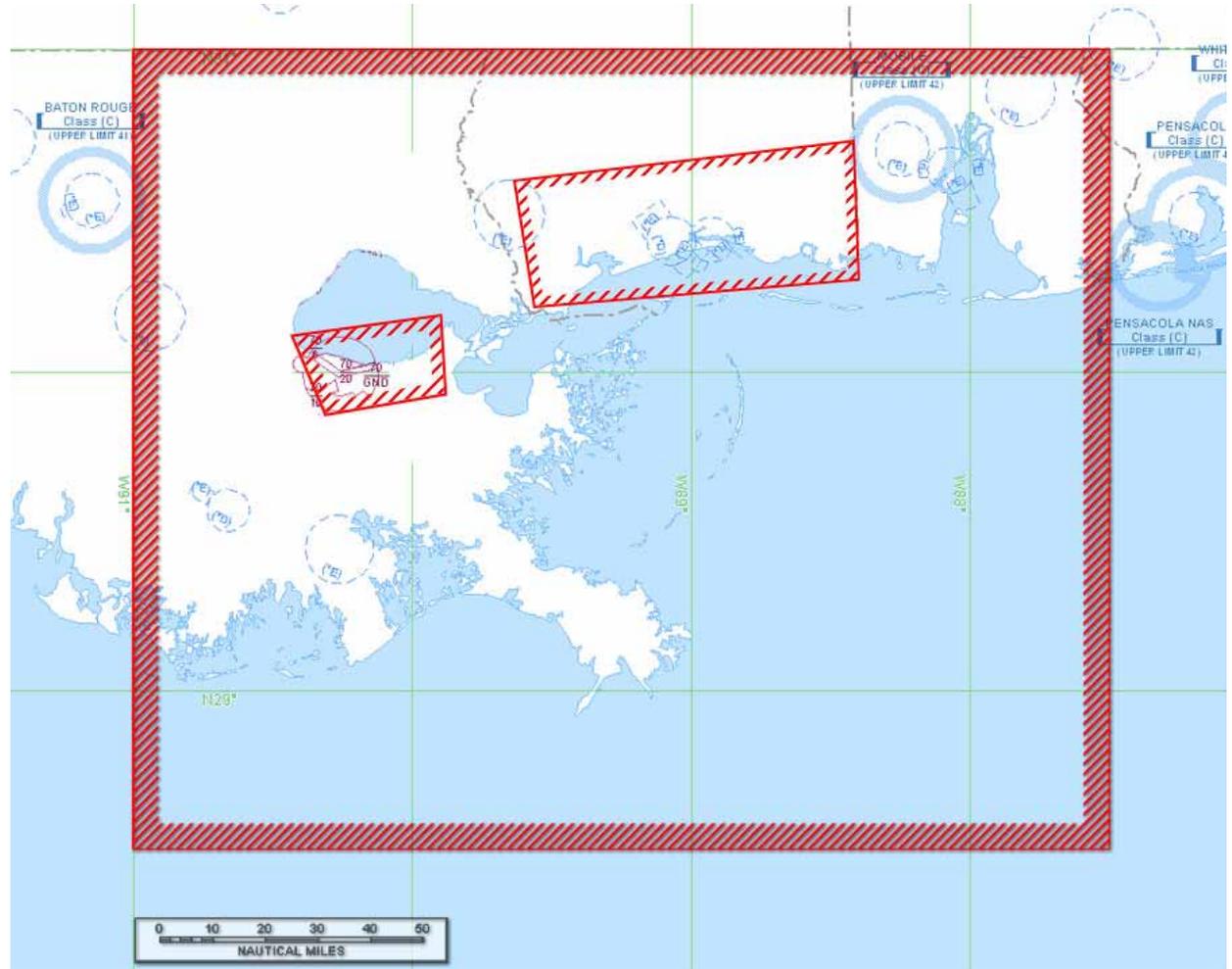
**Baton Rouge  
TFR in effect for  
only 1 Day, 21  
Hours**



# System Operations Security

**5 Days,  
17 Hours After  
First Gulf  
Landfall**

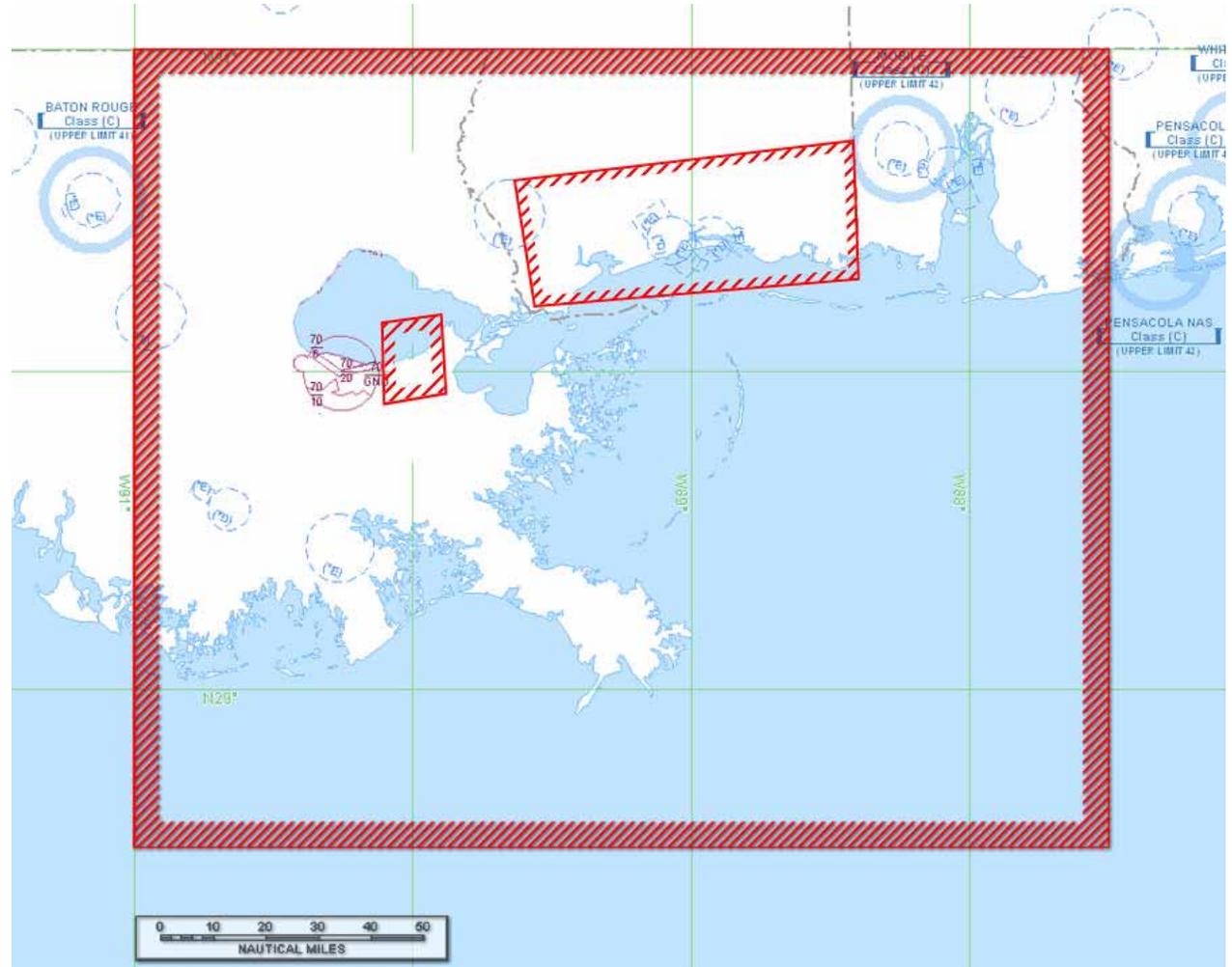
**Coastal  
Mississippi TFR  
Reduced in size  
after 3 Days, 23  
Hours**



# System Operations Security

**5 Days,  
23 Hours After  
First Gulf  
Landfall**

**New Orleans  
TFR Reduced  
in size after 3  
Days, 19 Hours**



# System Operations Security Goals

- Provide a Safe and Secure Environment for Recovery Efforts
- Foster Timely Information Exchange
- Size and Time Restrictions to have Minimal Impact to Air Commerce
- Reduce or Eliminate Restrictions as Required



# System Operations Security Requirements

- Near Real Time Storm Data
  - Landfall
  - Storm Surge
  - Wind Projections
  - Usable Format (ESRI Shape Files)
- Accurate Post Storm Assessments
- Don't Follow The Storm, BE THE STORM!





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# Questions?

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