

## E.2 Lead Project Scientist (On-Board)

### E.2.1 Preflight

- ☒ 1. Participate in general mission briefing.
- ☒ 2. Determine specific mission and flight requirements for assigned aircraft.
- ☒ 3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with OAO flight director/meteorologist and CARCAH unless briefed otherwise by field program director.
- ☒ 4. Contact HRD members of crew to:
  - a. Assure availability for mission.
  - b. Arrange ground transportation schedule when deployed.
  - c. Determine equipment status.
- ☒ 5. Meet with OAO flight crew at least 90 minutes before takeoff, provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
- ☐ 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami or FGOC at remote recovery location).

### E.2.2 In-Flight

- ☐ 1. Confirm from OAO flight director/meteorologist that satellite data link is operative (information).
- ☐ 2. Confirm camera mode of operation.
- ☐ 3. Confirm data recording rate.
- ☐ 4. Complete Form E-2.

### E.2.3 Postflight

- ☐ 1. Debrief scientific crew.
- ☐ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).
- ☐ 3. Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the OAO flight director.]
- ☐ 4. Obtain a copy of the 10-s flight listing from the OAO flight director. Turn in with completed forms.
- ☐ 5. Determine next mission status, if any, and brief crews as necessary.
- ☐ 6. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

2106A Fay

Form E-2  
Page 1 of 5

On-Board Lead Project Scientist Check List

Date 08/19/08 Aircraft 43 Flight ID 080819J

A. Participants

| HRD             |                   | OAO             |                              |
|-----------------|-------------------|-----------------|------------------------------|
| Function        | Participant       | Function        | Participant                  |
| Lead Proj. Sci. | <u>J. Gamache</u> | Flight Director | <u>Purnish</u>               |
| Cloud Physics   | <u>—</u>          | Pilots          | <u>Choy,</u>                 |
| Radar           | <u>J Gamache</u>  | Navigator       | <u>—</u>                     |
| Doppler         | <u>J Gamache</u>  | Sys. Engr.      | <u>—</u>                     |
| Photographer    | <u>—</u>          | Data Tech.      | <u>—</u>                     |
| Omegasonde      | <u>m. Black</u>   | El. Tech.       | <u>—</u>                     |
| AXBT/AXCP       | <u>—</u>          | Other           | <u>Dan Ceel / Huntsville</u> |

| Take-Off    | Location       | Landing  | Location           |
|-------------|----------------|----------|--------------------|
| <u>0317</u> | <u>MacDill</u> | <u>—</u> | <u>New Orleans</u> |

B. Past and Forecast Storm Locations

| Date/Time       | Latitude      | Longitude     | MSLP       | Max. Wind      |
|-----------------|---------------|---------------|------------|----------------|
| <u>19/0110Z</u> | <u>25°03'</u> | <u>81°52'</u> | <u>997</u> | <u>58kt SW</u> |
| <u>—</u>        | <u>—</u>      | <u>—</u>      | <u>—</u>   | <u>—</u>       |
| <u>—</u>        | <u>—</u>      | <u>—</u>      | <u>—</u>   | <u>—</u>       |
| <u>—</u>        | <u>—</u>      | <u>—</u>      | <u>—</u>   | <u>—</u>       |
| <u>—</u>        | <u>—</u>      | <u>—</u>      | <u>—</u>   | <u>—</u>       |

C. Mission Briefing

Fay just offshore Naples/Ft. Meyer  
FL 100 N  
Butterfly, 12kt 105nm. leg, including  
overland, 5kt legs along  
coast for SRA, SRMP  
Drops at leg end points and  
higher frequency for coastal run

# On-Board Lead Project Scientist Check List

Date 080819I Aircraft N43RF Flight ID 080819I

## A. Participants

HRD

OA0

| Function        | Participant          | Function        | Participant                                        |
|-----------------|----------------------|-----------------|----------------------------------------------------|
| Lead Proj. Sci. | <u>GAMACHE</u>       | Flight Director | <u>PARRISH</u>                                     |
| Cloud Physics   |                      | Pilots          | <u>CHOY, NEWMAN, EDHARDT</u><br>FLT ENCL<br>RUPPEL |
| Radar           | <u>GAMACHE</u>       | Navigator       | <u>KODER, SEGEL</u>                                |
| Doppler         | <u>GAMACHE</u>       | Sys. Engr.      | <u>LYNCH</u>                                       |
| Photographer    |                      | Data Tech.      | <u>Daehv</u>                                       |
| Omegasonde      | <u>GAMACHE/MBUCK</u> | El. Tech.       | <u>ISMITH</u>                                      |
| AXBT/AXCP       |                      | Other           |                                                    |
| VISITOR         | <u>D. CECIL</u>      |                 | <u>SANS SAKI BALDI MITCHEL</u>                     |

| Take-Off     | Location       | Landing      | Location           |
|--------------|----------------|--------------|--------------------|
| <u>0317Z</u> | <u>MAEDILL</u> | <u>0947Z</u> | <u>NEW ORLEANS</u> |

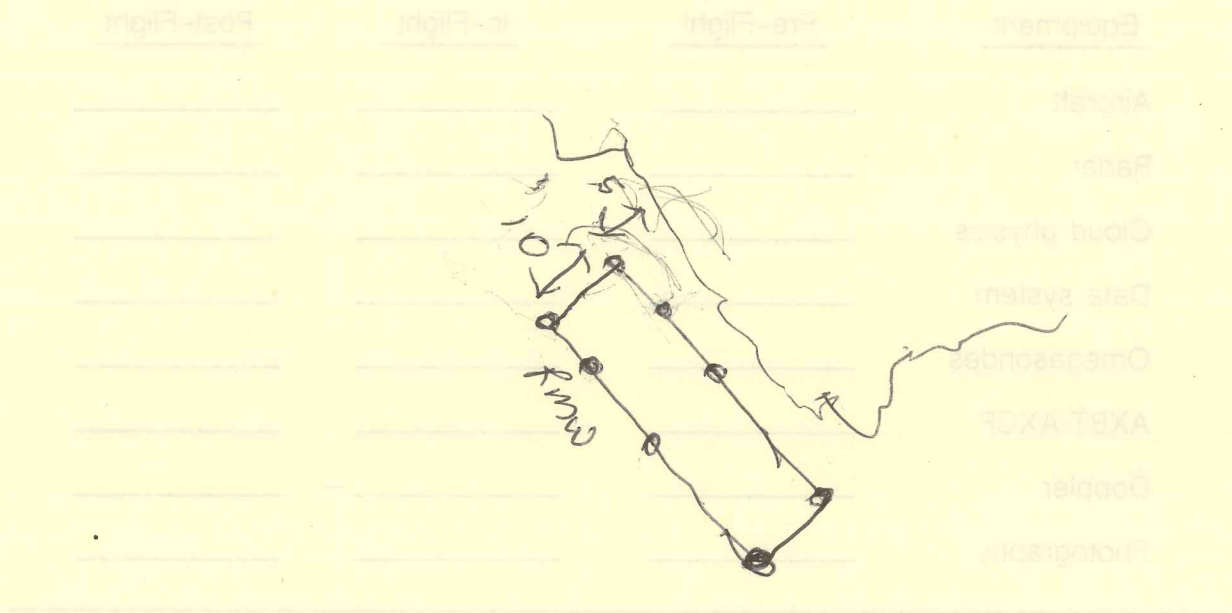
## B. Past and Forecast Storm Locations

| Date/Time      | Latitude      | Longitude     | MSLP       | Max. Wind        |
|----------------|---------------|---------------|------------|------------------|
| <u>19/06</u>   | <u>25.6</u>   | <u>82</u>     | <u>998</u> | <u>50 kts?</u>   |
| <u>19/0110</u> | <u>25°03'</u> | <u>81°52'</u> | <u>997</u> | <u>58 kts SW</u> |
|                |               |               |            |                  |
|                |               |               |            |                  |
|                |               |               |            |                  |

## C. Mission Briefing

WILL DO BUTTERFLY PATTERN EXTRA LEG  
ON ONSHORE FLOW SIDE NEAR TIME 01  
LAUD FALL

E. I. Proposed Flight Pattern (sketch or designate by number)



E. II. Actual Flight Pattern

E. I. Proposed Flight Pattern (sketch or designate by number)

SEE PREVIOUS PAGE

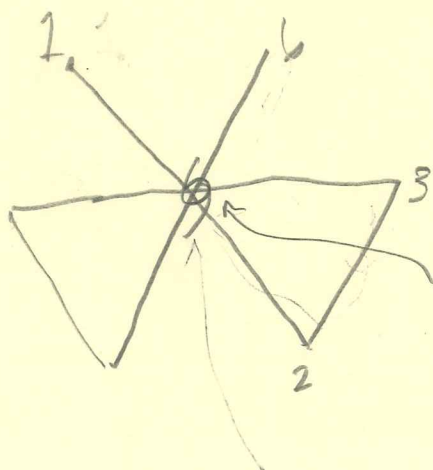
E. II. Actual Flight Pattern



D. Equipment Status

| <u>Equipment</u> | <u>Pre-Flight</u> | <u>In-Flight</u> | <u>Post-Flight</u> |
|------------------|-------------------|------------------|--------------------|
| Aircraft         | _____             | _____            | _____              |
| Radar            | _____             | _____            | _____              |
| Cloud physics    | _____             | _____            | _____              |
| Data system      | _____             | _____            | _____              |
| Omegasondes      | _____             | _____            | _____              |
| AXBT/AXCP        | _____             | _____            | _____              |
| Doppler          | _____             | _____            | _____              |
| Photography      | _____             | _____            | _____              |

REMARKS:

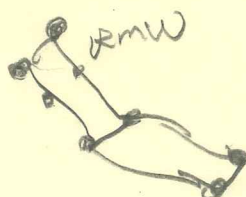


BREAK OFF AFTER 2<sup>nd</sup> or  
3<sup>rd</sup> penetration do flight legs  
to SE of 6. at 5000 ft  
for landfall/bathymetry  
concerns.

# Lead Project Scientist Event Log

Date \_\_\_\_\_ Flight \_\_\_\_\_ LPS \_\_\_\_\_

| Time    | Event                                   | Position                   | Comments         |
|---------|-----------------------------------------|----------------------------|------------------|
| 0335    | IP                                      | 27.6' 82.56'               | 105 nm NW        |
| 0339    | Backup Sonde                            | 26.82' - 82.774            |                  |
| 0400    | meso-cell in eye                        |                            |                  |
| 0410150 | 25°28' 81°53'                           | 991 mb extrap              |                  |
| 042628  | Sonde #3                                | 105 nm SE                  |                  |
|         |                                         | 23.92 80.96                | Turn to E of ctr |
| 0450    | East Point                              | 105 nm                     | Turn to ctr      |
| 051436  | 25°30' 81°53'                           | Center 992 mb              | extrap           |
|         | Sonde - eye #4                          |                            |                  |
| 051734  | Sonde #5                                | W of eye 82°W - 20 m depth |                  |
| 052930  | Sonde #6                                | west of ctr 50 m depth     |                  |
| 053420  | Sonde #7                                | 105 nm W                   |                  |
| 060229  | Sonde #8                                | 105 nm SE                  |                  |
| 062630  | Center                                  | 25°37' 81°50'              |                  |
| 063230  | Descend to 5,000 ft                     | For box                    |                  |
|         | Ft. Meyers to Cape Sable, 5 nm offshore |                            |                  |
|         | and 15 nm offshore                      |                            |                  |
| 063904  | NE corner of box                        | - 5 mi off Ft. M. prs      | - Sonde #8       |
|         |                                         |                            |                  |
|         |                                         |                            |                  |
|         |                                         |                            |                  |

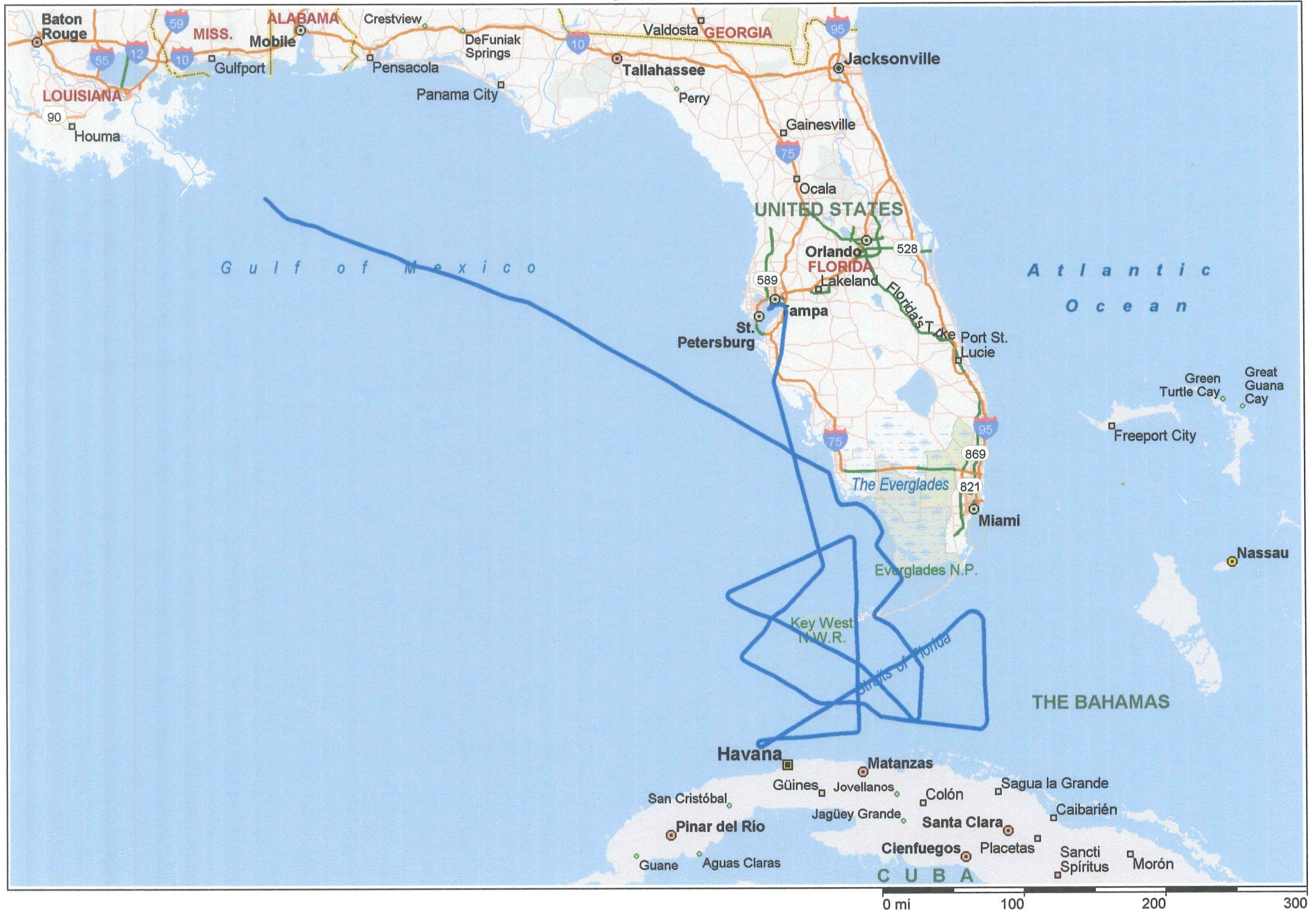


## Event Log

LPS Gaurachh

Note: Local full degrees according to location of the area

TS Fay 18Aug2008



[weather.gov](http://weather.gov)

# National Weather Service Enhanced Radar Image

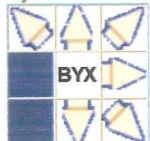
## Key West, FL Radar

Go to: [Standard Version](#)

Local weather forecast by "City, St"  City, St

[Radar Status Message](#)

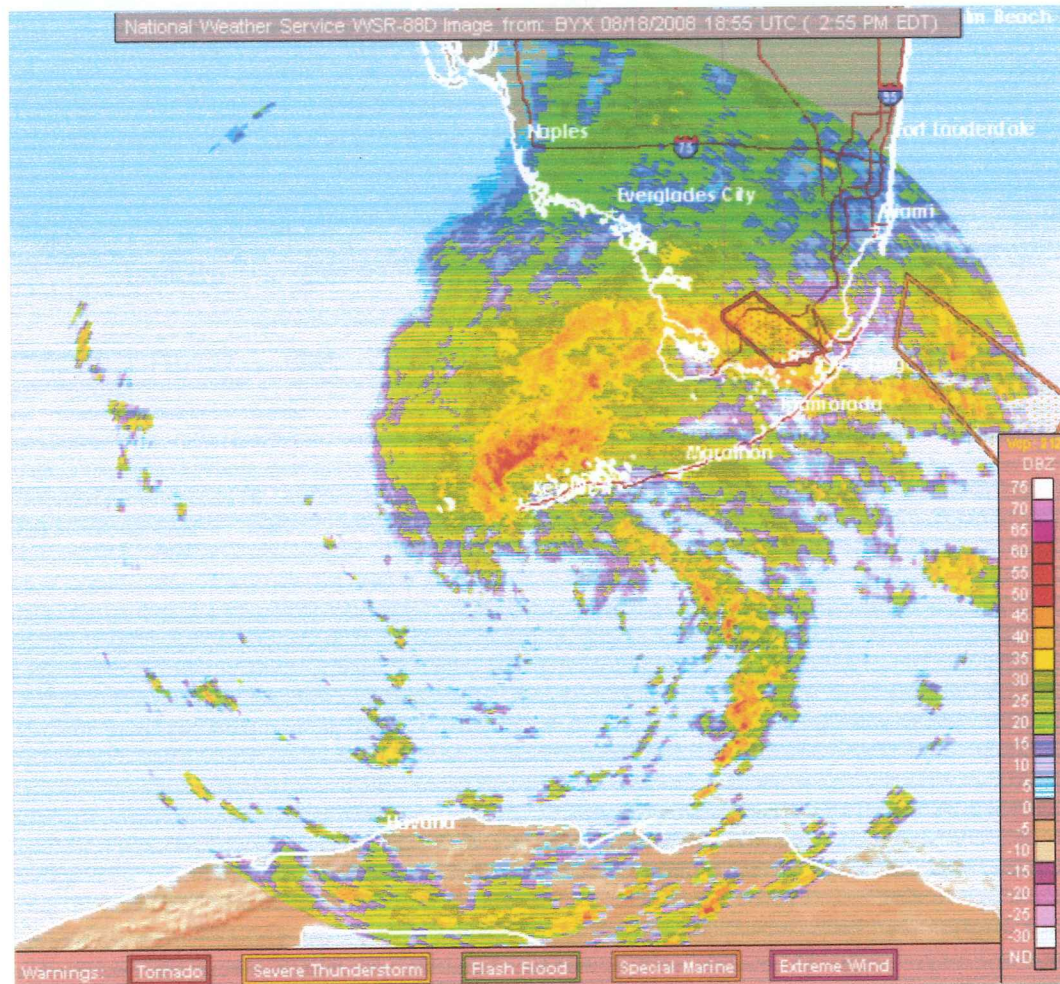
### Adjacent Radars:



### Base Reflectivity

[NWS Key West, FL](#)

02:50 PM EDT Mon Aug 18 2008



### Short Range Images

#### Reflectivity:

Composite Loop  
Base Loop

#### Velocity:

Storm Relative Loop  
Base Loop

#### Rainfall:

1-Hour Total Loop  
Storm Total Loop

### Long Range Images

#### Reflectivity:

Base Loop

### U.S. Views

#### Reflectivity:

National Loop  
Alaska Loop  
Hawaii Loop  
Guam Loop  
Puerto Rico Loop  
Radars by State

### Additional Info:

[Radar FAQ](#)  
[Downloading Images](#)  
[Mobile Users](#)  
[GIS Users](#) [KML](#)  
[Doppler University](#)  
[Color Blindness Tool](#)  
[Credits](#)

☒ Topo ☒ Radar ☒ Counties ☐ Rivers ☒ Highways ☒ Cities ☒ Warnings ☒ Legend

### Range and Bearing Information (left click to select a location): [How does this work?](#)

Distance from Radar, Lat/Lon of selected location

Distance from Selected Location

0 Mi North (0 Deg)

36 Mi Away

West Southwest

248 Degrees

24.593 Deg Lat

-81.699 Deg Lon

24.411

Latitude -82.245

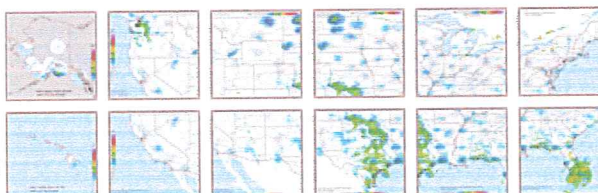
Longitude

Java is necessary for radar looping and is best optimized using Java version 1.4.2 or higher.

Go to [www.java.com/en](http://www.java.com/en) for more information regarding Java.

National  
Radar  
Mosaic  
Sectors

(click image)



National Weather Service, NOAA  
1325 East-West Highway

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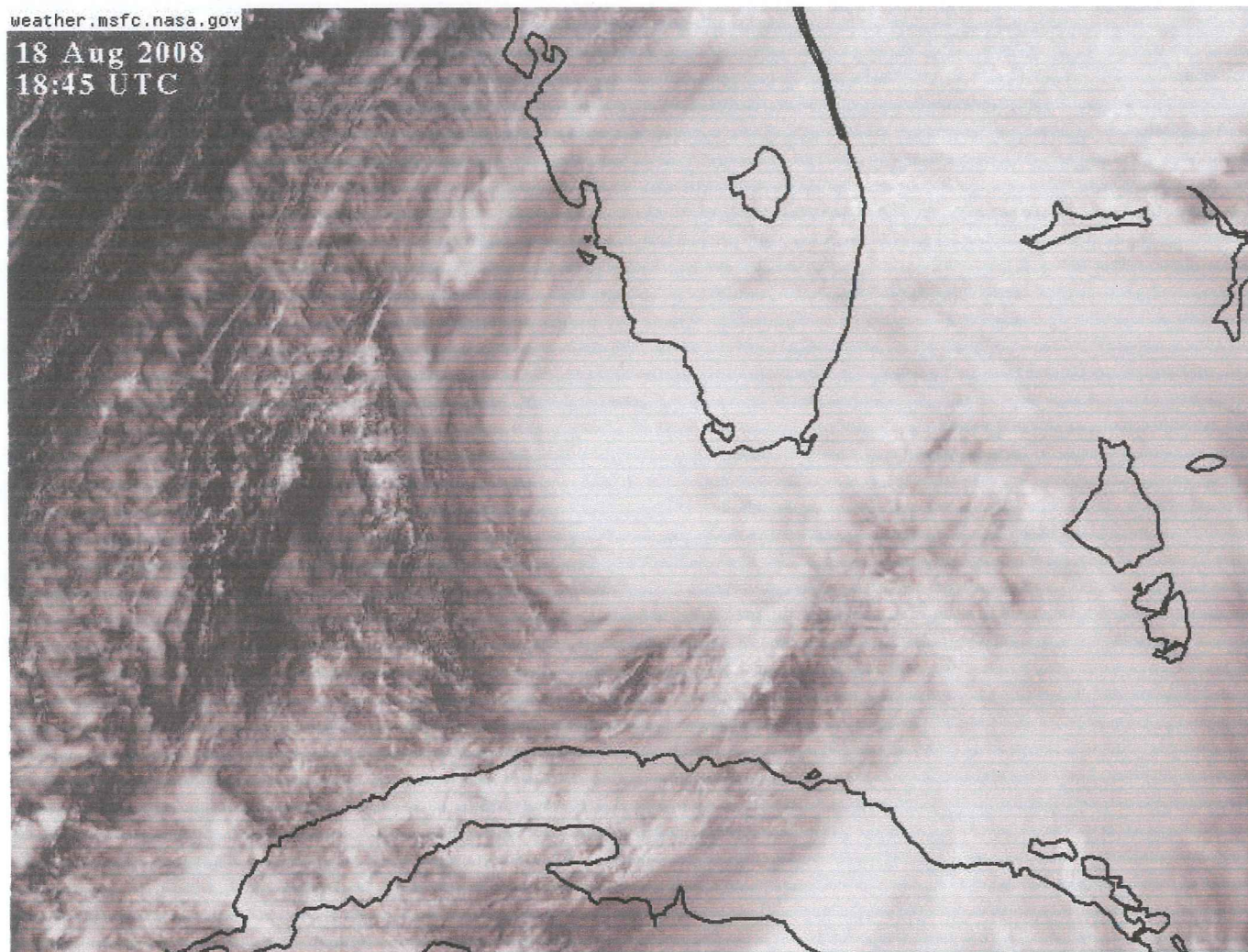


**NASA MSFC Earth Science Office**  
**GOES-E CONUS Visible Satellite Data**

[\[N.Amer. visible\]](#) | [\[N.Amer. infrared\]](#) | [\[N.Amer. water vapor\]](#) | [\[global infrared mosaic\]](#) | [\[global water vapor mosaic\]](#)

**18 Aug 2008 18:45 UTC [1 km resolution]**

Image centered at Latitude= 24.94° N Longitude= 81.66° W (X=309 Y=303)



Raw data courtesy of the NASA MSFC Earth Science Office in Huntsville Alabama

[Infrared processes group](#)  
[NASA MSFC Earth Science Office](#)

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