41010 IP

See P. Chang

Lead Project Scientist

J0409 25 M1

Preflight

1. Participate in general mission briefing.
2. Determine specific mission and flight requirements for assigned aircraft.
3. Determine from field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist unless briefed otherwise by field program director.
4. Contact HRD members of crew to:
   a. Assure availability for mission.
   b. Review field program safety checklist
   c. Arrange ground transportation schedule when deployed.
   d. Determine equipment status.
5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
5. Meet with AOC flight crew at least 2 hours before take-off for crew briefing. 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).
7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
7. Make sure each HRD flight crew members have life vests
7. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.
8. Collect "mess" fee ($2.00) from all on-board HRD flight crew members.

In-Flight

1. Confirm from AOC flight director that satellite data link is operative (information).
2. Confirm camera mode of operation.
3. Confirm data recording rate.
4. Complete Lead Project Scientist Form.
5. Check in with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made).

Post flight

1. Debrief scientific crew.
2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, *etc.*) remaining aboard the aircraft to MGOC.
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 AOC flight director.]
4. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
5. Obtain a copy of the radar DAT tapes. Turn in with completed forms.
6. Obtain a copy of the all VHS videos form aircraft cameras (3-4 approx.). Turn in with completed forms.
7. Obtain a copy of CD with all flight data. Turn in with completed forms.
8. Determine next mission status, if any, and brief crews as necessary.
9. Notify MGOC as to where you can be contacted and arrange for any further coordination required.
10. Prepare written mission summary using **Mission Summary** form (due to Field Program Director a week after the flight).

Lead Project Scientist Check List

Date 25 Sep 04 **Aircraft** N42f **Flight ID** 040925H1

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	~~P. Leighton~~	Flight Director	Paul Flaherty
Radar	P. Chang P. Leighton	Pilots	Phil Kennedy
Workstation	N/A	Navigator	
Cloud Physics	N/A	Systems Engineer	Greg Bast
Photographer/Observer /Guests	N/A	Data Technician	Seem McMillan Bobby McPeek
Dropwindsonde	P. Leighton	Electronics Technician	M
AXBT/AXCP	P. Leighton	~~Other~~ Sondes	Mark Rogers

B. Take-off and Landing Locations:

Take-Off MacDill Location: _____

Landing: New Orleans Location: _____
Lake Front

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
1500 25/1500Z	26.6	77.6		100kt
12hr 26/0000Z	27.0	79.5		110 kt
24hr 26 1200Z	26.0	81.5		75kt inland

D. Mission Briefing:

26.7 77.8

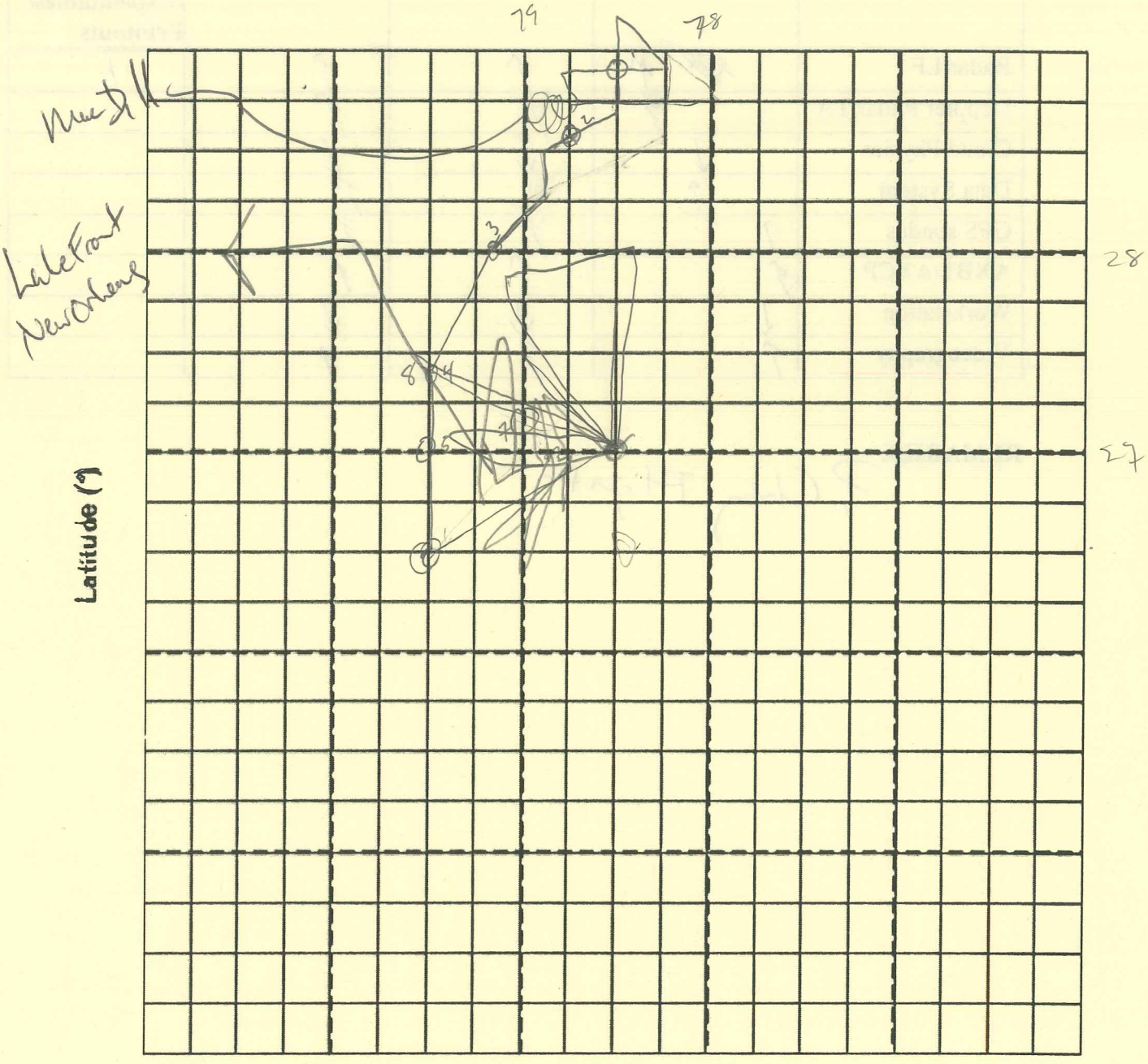
E. —Equipment Status (Up ↑, Down ↓, Not Available —, Not Used **O**)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
Radar/LF	↑	↑	↑	1
Doppler Radar/TA	↑	↑	↑	
Cloud Physics	↓	↓	↓	
Data System	↑	↑	↑	
GPS sondes	↑	↑	↑	
AXBT/AXCP	↑	↑	↑	
Workstation	↓	↓	↓	
Videography	↑	↑	↑	

REMARKS: Pre Chem Flight

Observer's Flight Track Worksheet

Date 25 Sep 04 Flight J040925H1 Observer P. Leighton



Mission Summary

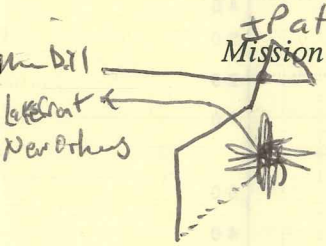
Storm name

YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)

Lead Project Scientist P. Chang
Radar Scientist P. Leighton
Cloud Physics Scientist N/A
Dropwindsonde Scientist P. Leighton
Boundary-Layer Scientist P. Leighton
Workstation Scientist N/A
Observers N/A

Mission Briefing: (include sketch of proposed flight track or page #) Pat Buoy 41010



Lig 4 @ Buoy 41010
SW Diag ~ 26.5, 79.5
S to 25° then
High winds pattern
and BT Drops

Mission Synopsis: (include plot of actual flight track)

Evaluation: (did the experiment meet the proposed objectives?) Yes

Problems:(list all problems)

Expendables used in mission:
GPS sondes : 22
AXBTs : 15 + 1 No launch
Sonobuoys: _____

040925 H1 Jeanne

Centers ↓

9 1956 Comp1 1942 _ 2002

9 2032 Comp2 2020 _ 2040

040925 I1

9 2032 comp1 2020 _ 2040

→ 9 2158 comp2 2146 _ 2206 ← do over

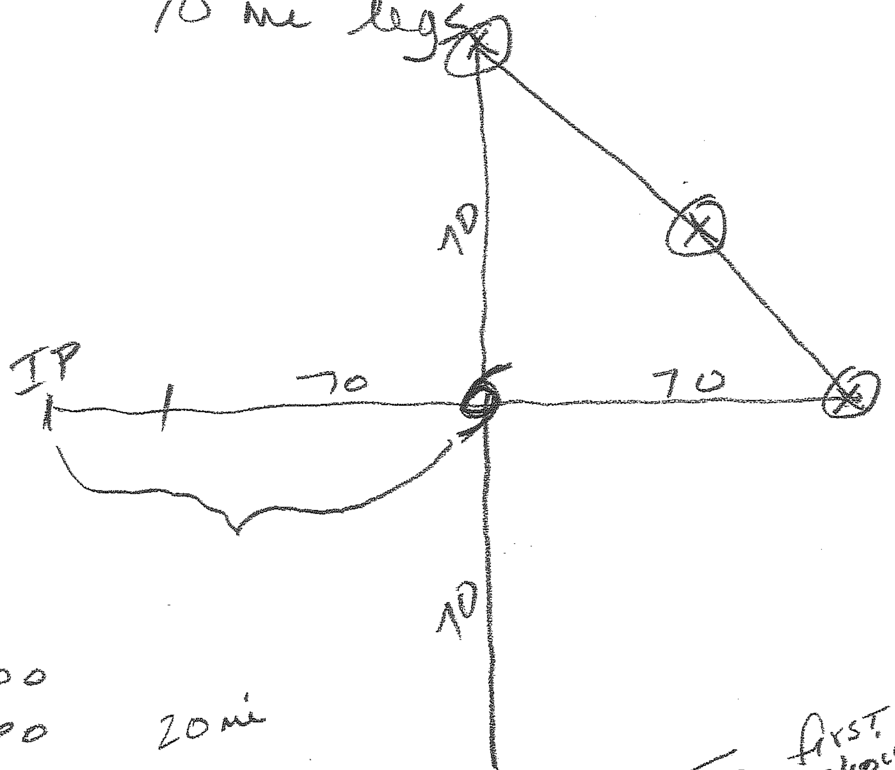
9 2315 comp3 2303 _ 2323

9 2428 comp4 2416 _ 2436

IP DUE WEST

100 mi west of 26.3 68.8

70 mi legs



42 Stepped descent
O S begin/end
O only @ 5mi

(X) CH12
N 43

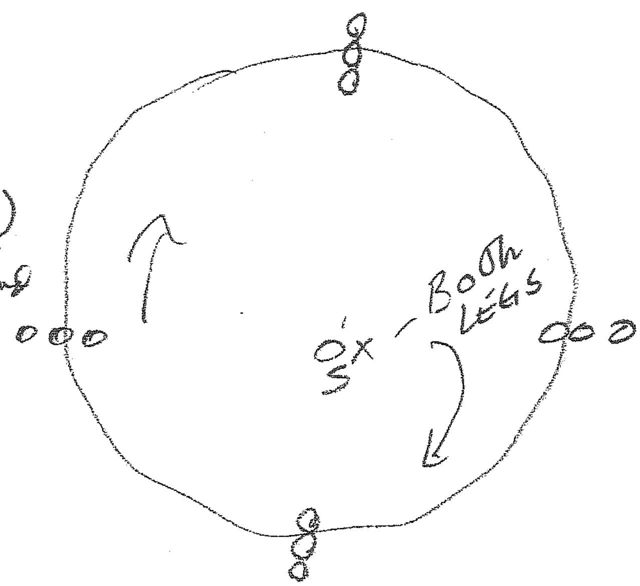
43
14
16

2400
1200
900
600
400

20 mi

first choice

IF shorter (12-15 mi)
Do upwind/downwind
at each altitude



MIKE
TOM
BARRY
Greg
JOE
Tim
ME
Lynch
Smith
Sans Souci
McFADDEN

Rogers
ULHORN
LEIGHTON

LASWELL
WALSH
Lichendorf
French

O - 42
X - BT
S - Sonobuoy

Paul Chang
301-807-9795

• – BT drop

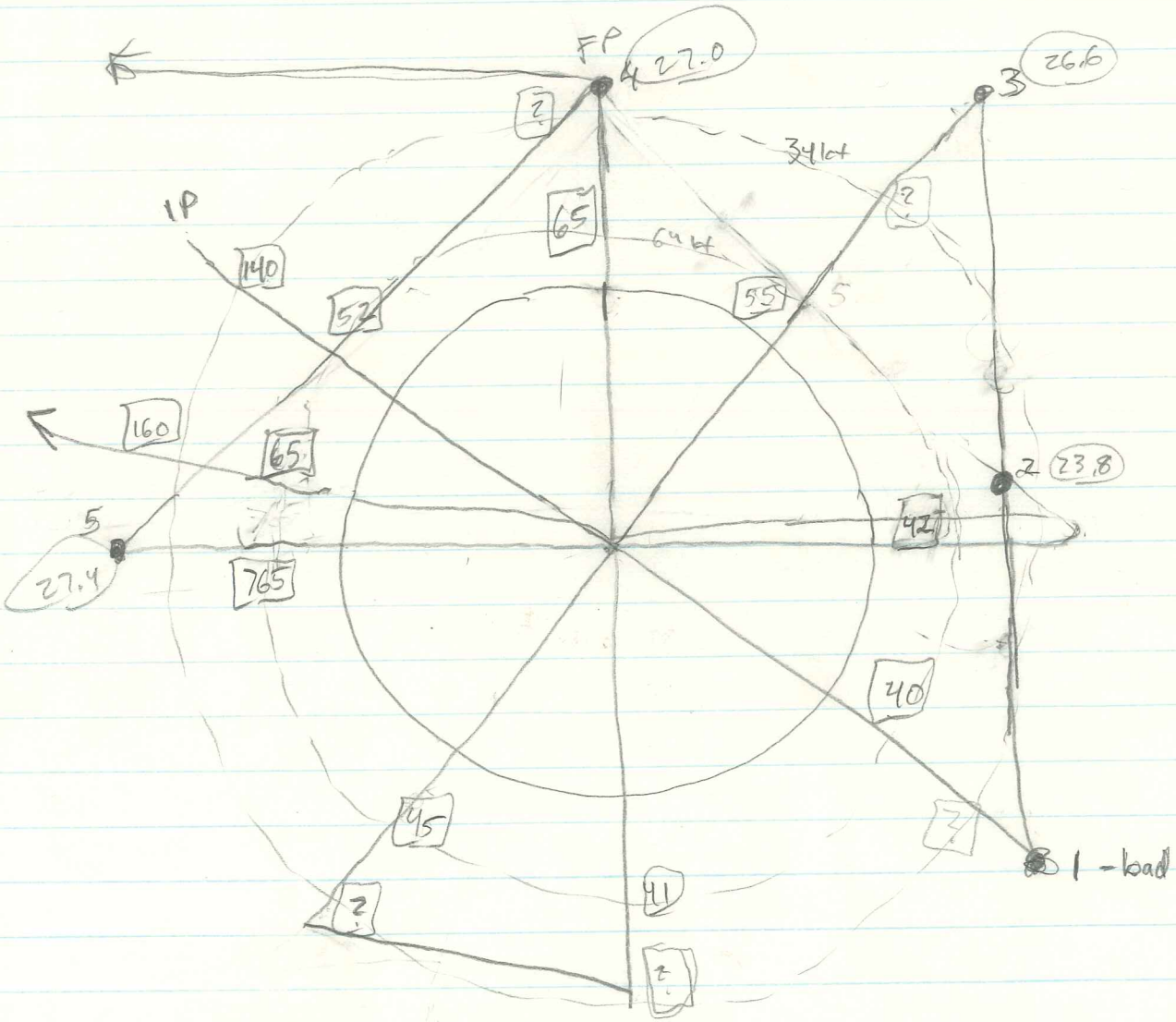
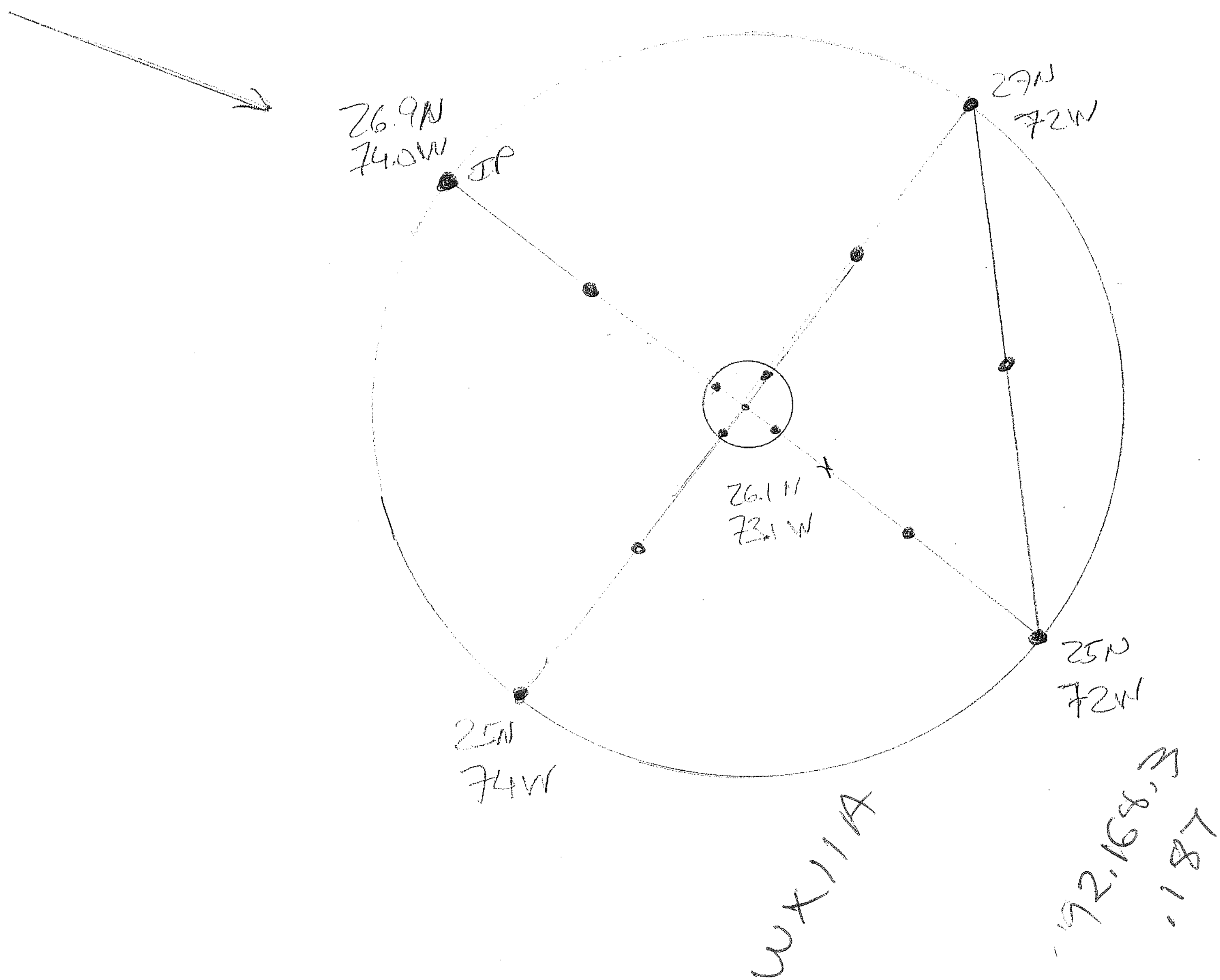
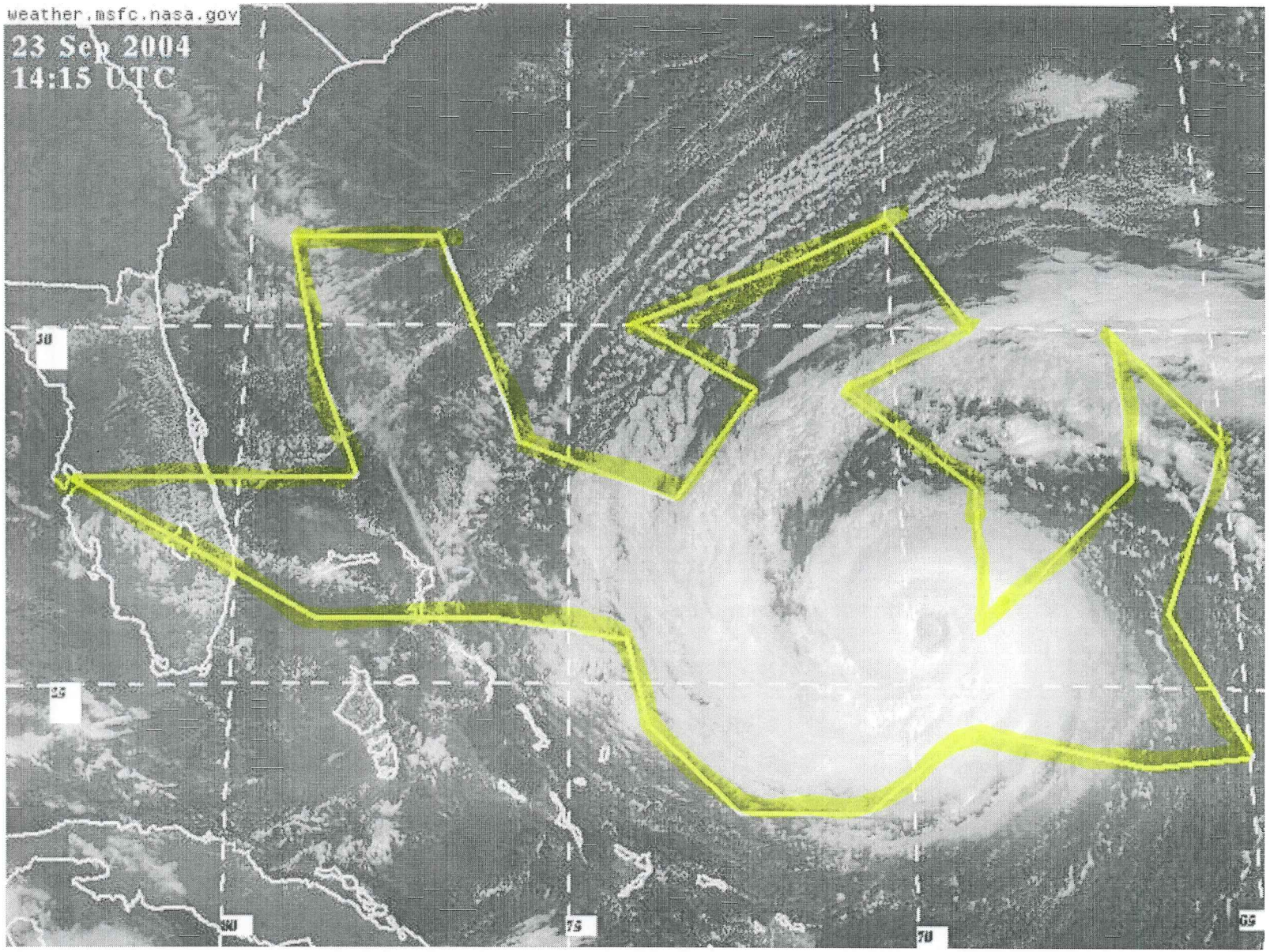
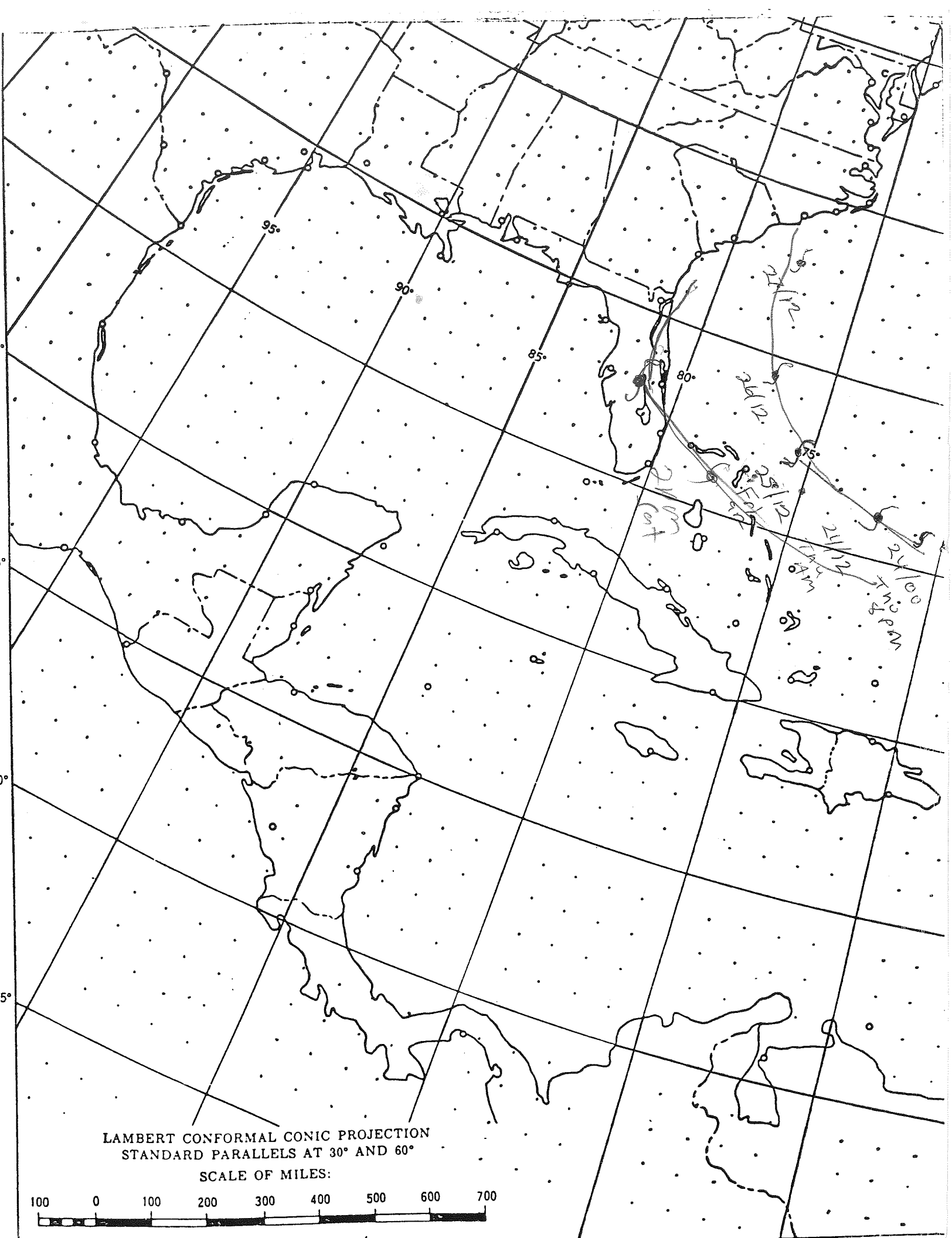


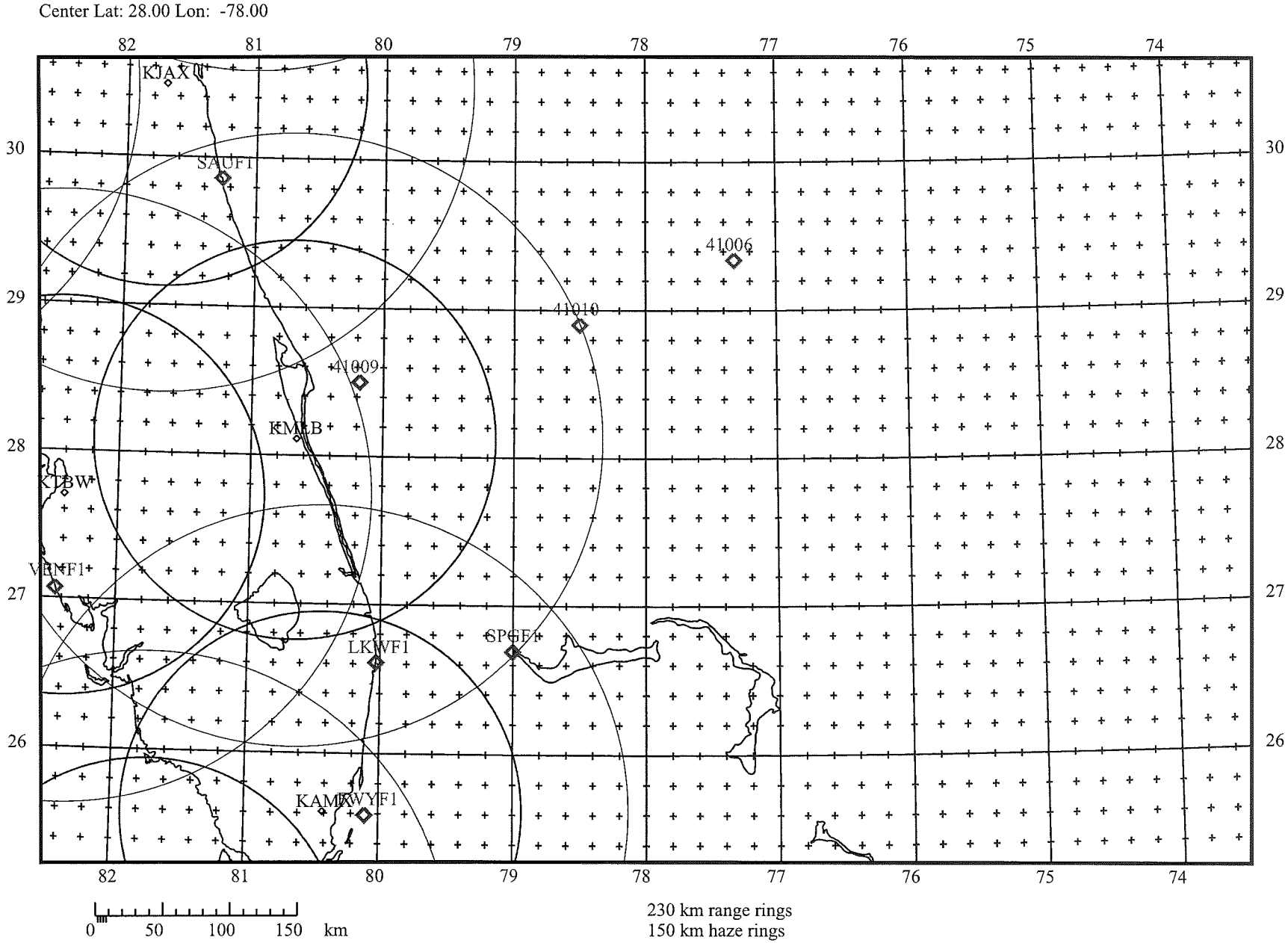
Figure 1

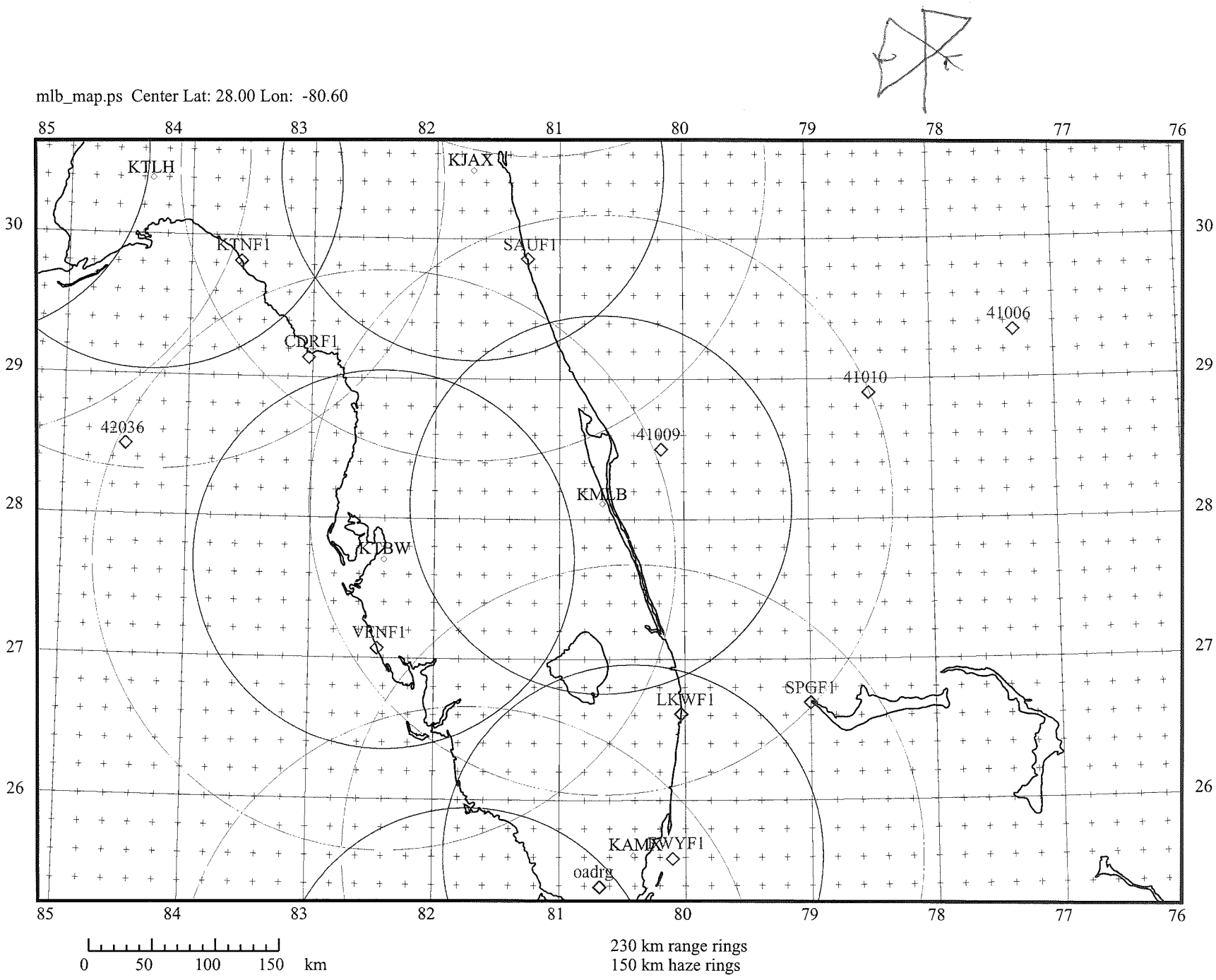

26.9N
74.0W
IP
27N
72W
26.1N
73.1W
25N
74W
25N
72W
WX11A
192.168.3
.187

Thu	23/21	25.9	70.3
Fr	24/18	25.8	73.4
Sat	25/18	26.1	77.8
Sun	26/18	27.9	81.3
mon	27/18	31.5	81.5


weather.msfc.nasa.gov
23 Sep 2004
14:15 UTC
30
25
80
75
70
65


95°
90°
85°
80°
75°
LAMBERT CONFORMAL CONIC PROJECTION
STANDARD PARALLELS AT 30° AND 60°
SCALE OF MILES:
100 0 100 200 300 400 500 600 700


Center Lat: 28.00 Lon: -78.00
82
81
80
79
78
77
76
75
74
30
29
28
27
26
KJAX
SAUF1
41006
41010
41009
KMLB
KTBW
VRNF1
LKWF1
SPGF1
KAMWYF1
0
50
100
150
km
230 km range rings
150 km haze rings


mlb_map.ps Center Lat: 28.00 Lon: -80.60
85
84
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KJAX
KTNF1
SAUF1
CDRF1
41006
41010
42036
41009
KMLB
KTBW
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SPGF1
KAMXWYF1
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50
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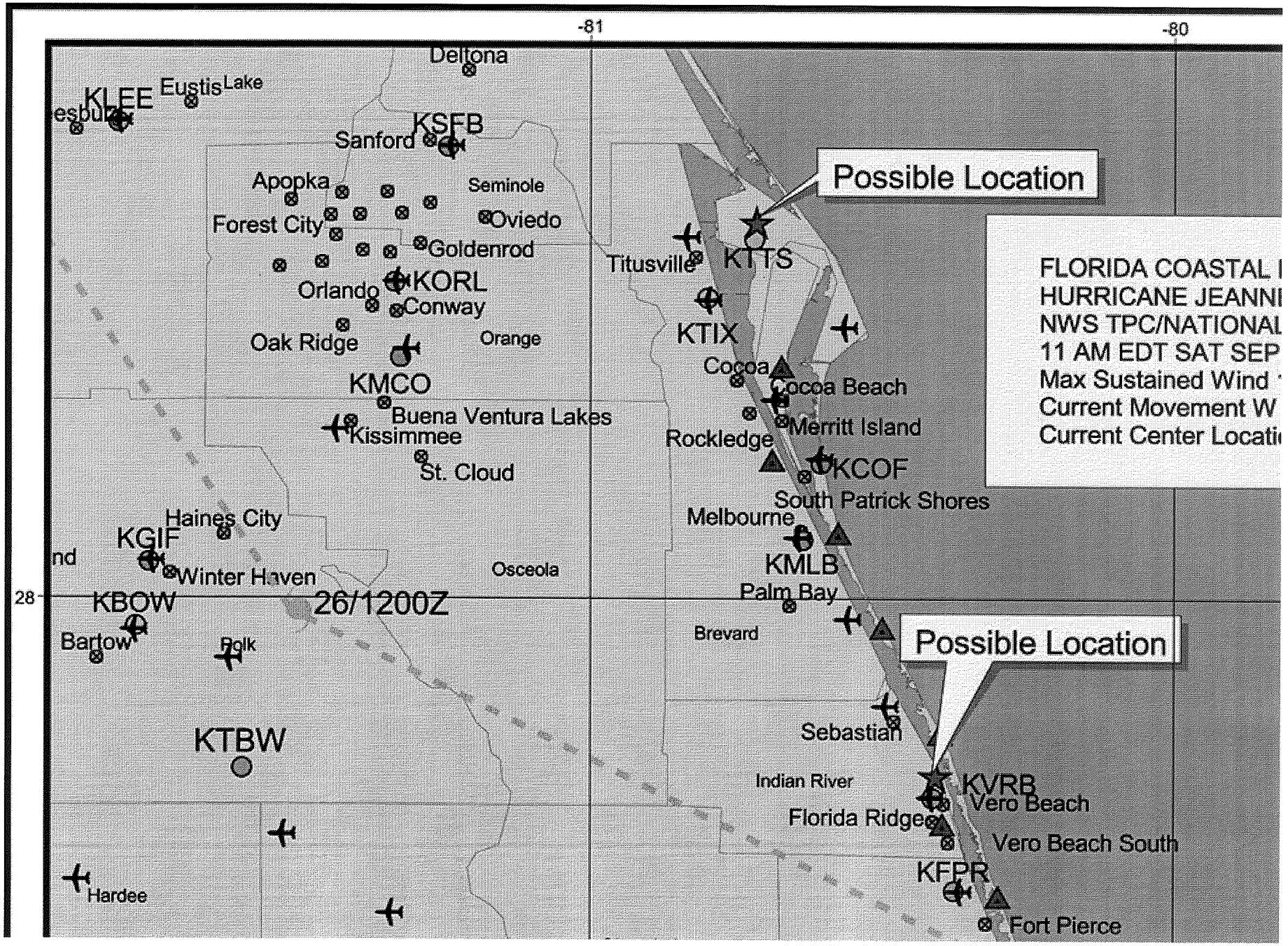
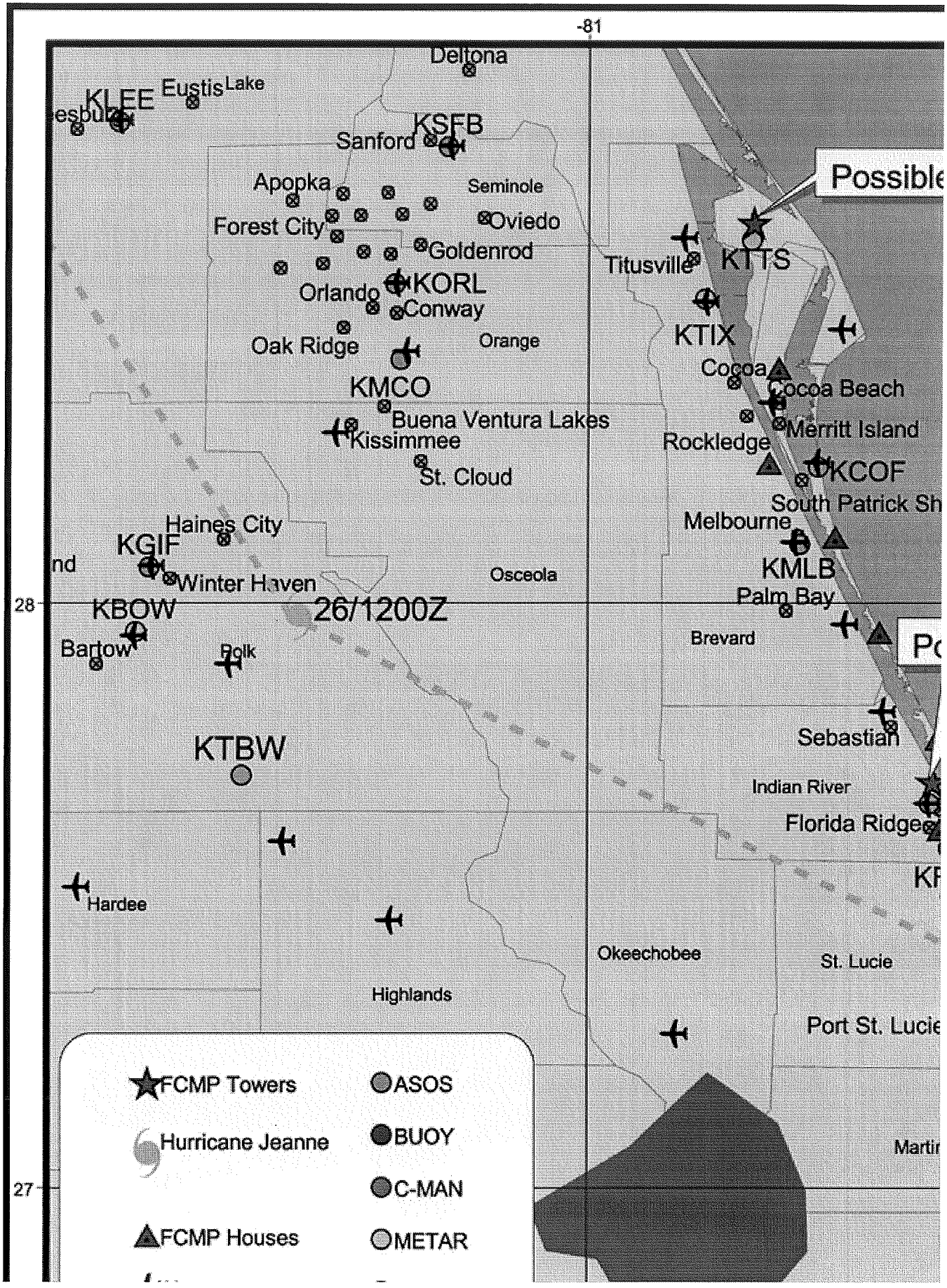
150
km
230 km range rings
150 km haze rings


-81
-80
28
Deltona
Eustis
Lake
KLEE
KSFB
Sanford
Apopka
Seminole
Forest City
Oviedo
Goldenrod
Orlando
KORL
Conway
Oak Ridge
Orange
KMCO
Buena Ventura Lakes
Kissimmee
St. Cloud
Haines City
KGIF
Winter Haven
Osceola
KBOW
26/1200Z
Bartow
Polk
KTBW
Hardee
Titusville
KTTS
KTIX
Cocoa
Cocoa Beach
Merritt Island
Rockledge
KCOF
South Patrick Shores
Melbourne
KMLB
Palm Bay
Brevard
Sebastian
Indian River
KVRB
Vero Beach
Florida Ridge
Vero Beach South
KFPR
Fort Pierce
Possible Location
Possible Location
FLORIDA COASTAL
HURRICANE JEANNI
NWS TPC/NATIONAL
11 AM EDT SAT SEP
Max Sustained Wind
Current Movement W
Current Center Locati


-81
Deltona
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Buena Ventura Lakes
Kissimmee
St. Cloud
Haines City
KGIF
Winter Haven
Osceola
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KTTS
KTIX
Cocoa
Cocoa Beach
Merritt Island
Rockledge
KCOF
South Patrick Sh
Melbourne
KMLB
Palm Bay
Brevard
Sebastian
Indian River
Florida Ridge
St. Lucie
Port St. Lucie
Martin
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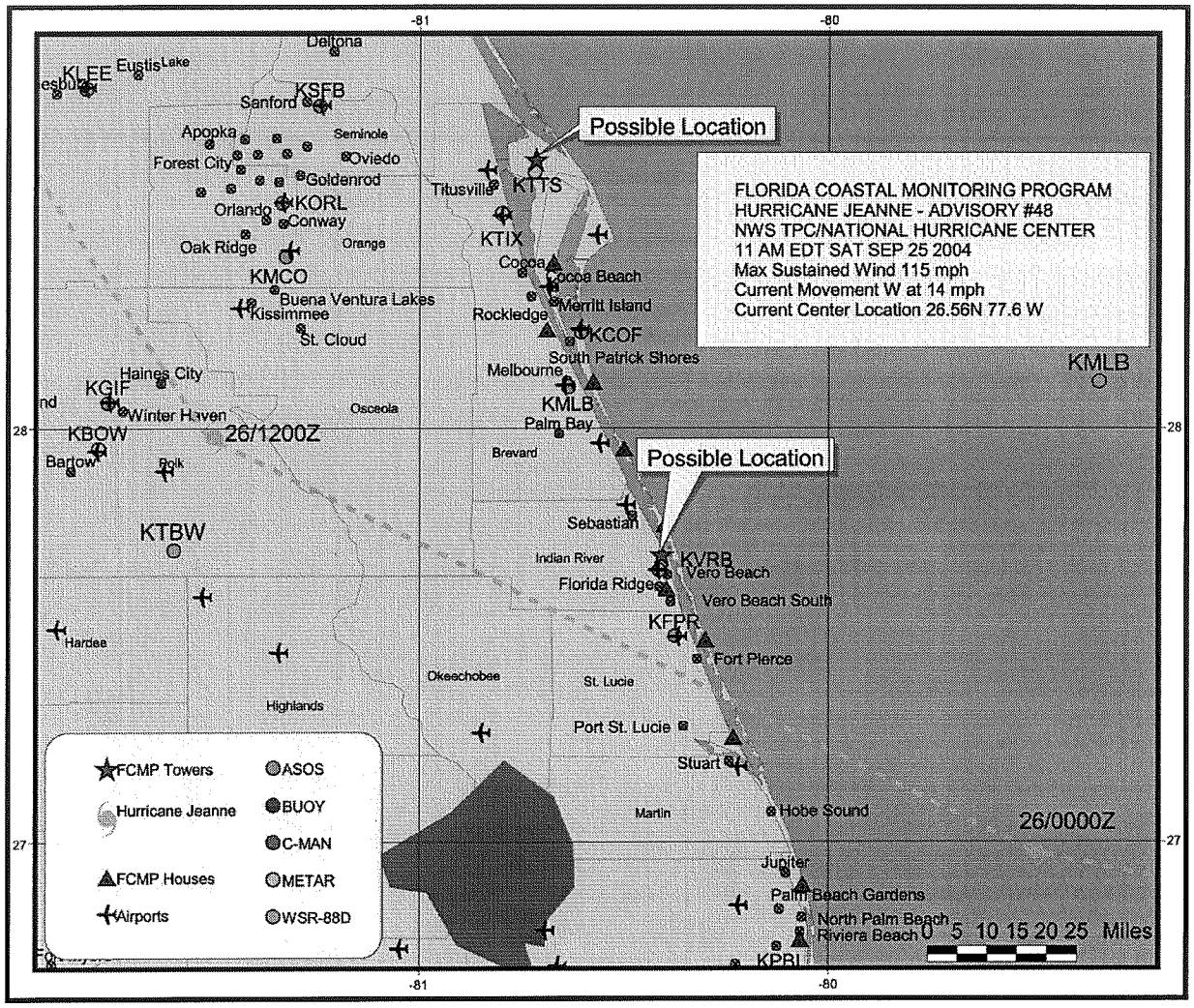
FCMP Towers
ASOS
Hurricane Jeanne
BUOY
C-MAN
FCMP Houses
METAR


Possible Location
FLORIDA COASTAL MONITORING PROGRAM
HURRICANE JEANNE - ADVISORY #48
NWS TPC/NATIONAL HURRICANE CENTER
11 AM EDT SAT SEP 25 2004
Max Sustained Wind 115 mph
Current Movement W at 14 mph
Current Center Location 26.56N 77.6 W
Possible Location
26/1200Z
26/0000Z
KTTS
KTIX
KCOF
KMLB
KVRB
KFPR
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KBOW
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Sanford
Apopka
Seminole
Forest City
Oviedo
Goldenrod
Orlando
Conway
Oak Ridge
Orange
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Cocoa Beach
Merritt Island
Rockledge
South Patrick Shores
Melbourne
Palm Bay
Brevard
Buena Ventura Lakes
Kissimmee
St. Cloud
Osceola
Haines City
Winter Haven
Bartow
Polk
Sebastian
Indian River
Vero Beach
Florida Ridge
Vero Beach South
Fort Pierce
Okeechobee
St. Lucie
Port St. Lucie
Stuart
Martin
Hobe Sound
Jupiter
Palm Beach Gardens
North Palm Beach
Riviera Beach
Hardee
Highlands
FCMP Towers
Hurricane Jeanne
FCMP Houses
Airports
ASOS
BUOY
C-MAN
METAR
WSR-88D
0 5 10 15 20 25 Miles
-81
-80
28
27

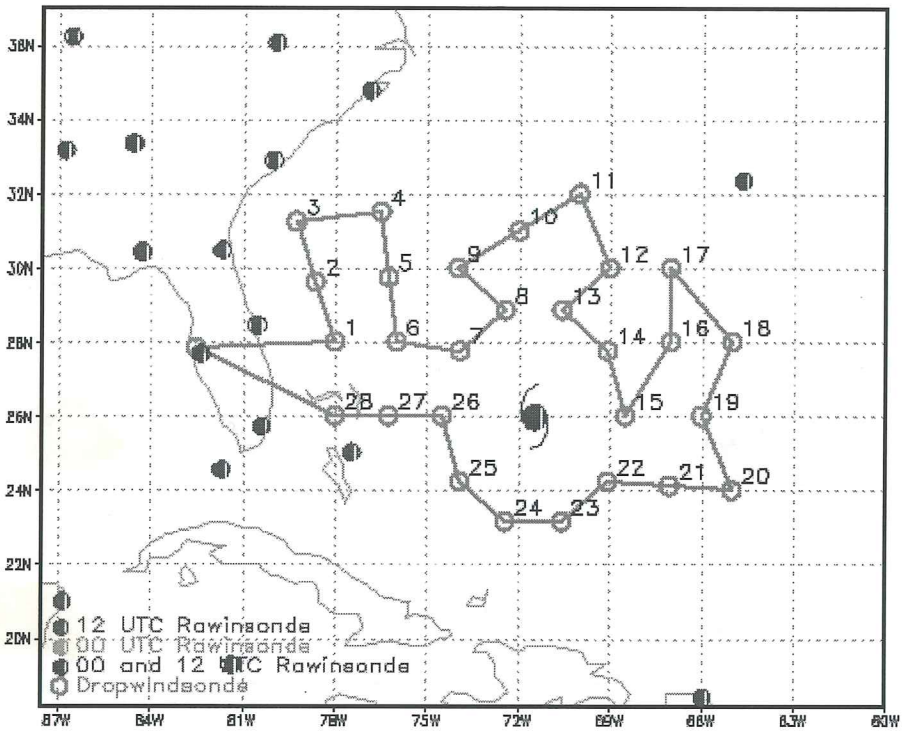
HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: JEANNE

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 23/1730Z

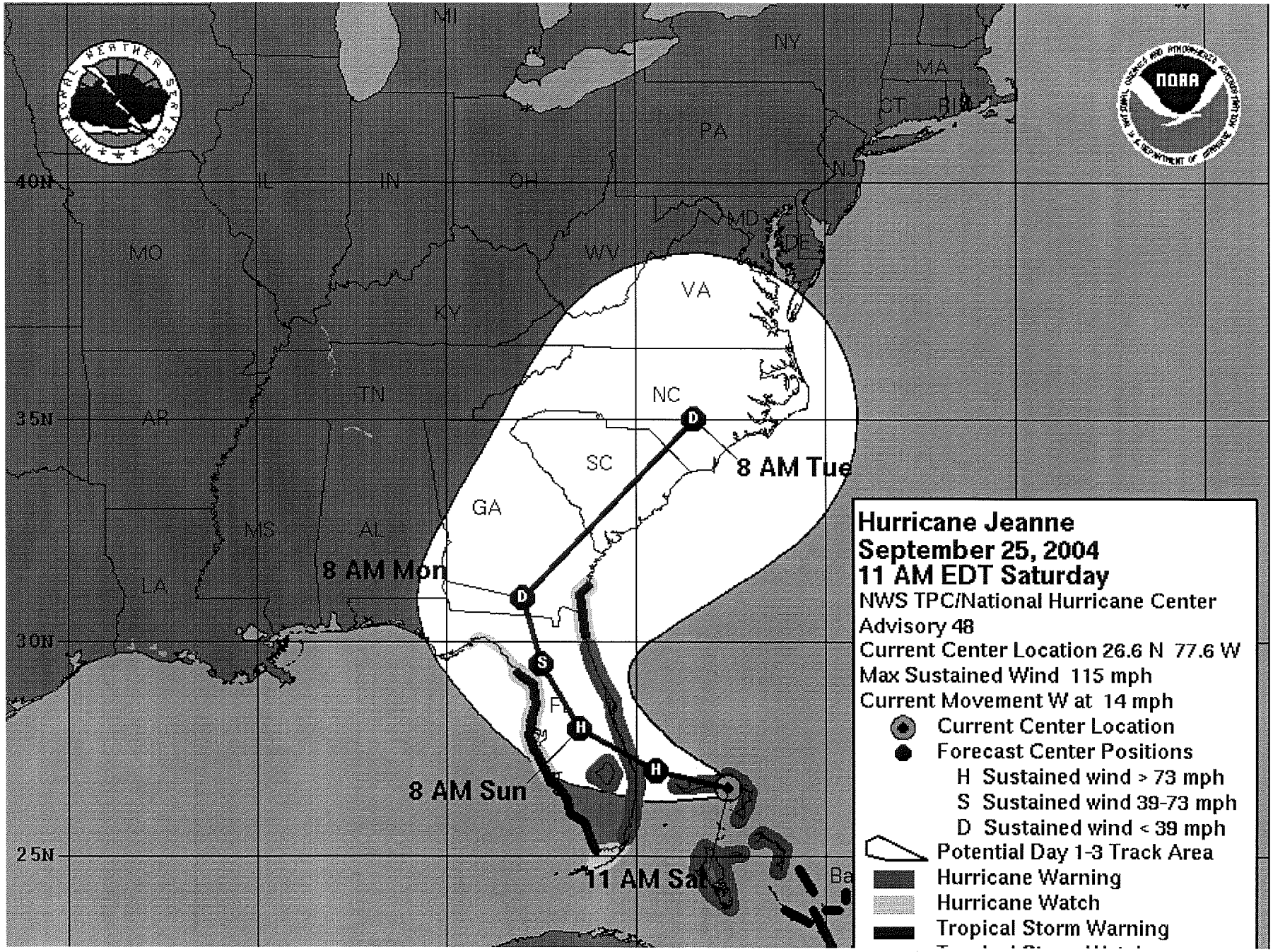
DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	28 00	78 00		0:43
2	29 38	78 38		0:57
3	31 15	79 15		1:11
4	31 30	76 30		1:30
5	29 45	76 15		1:44
6	28 00	76 00		1:59
7	27 46	73 56		2:14
8	28 51	72 26		2:28
9	30 00	74 00		2:42
10	31 00	72 00		2:59
11	32 00	70 00		3:15
12	30 00	69 00		3:32
13	28 51	70 34		3:47
14	27 46	69 04		4:01
15	26 00	68 30		4:16
16	28 00	67 00		4:36
17	30 00	67 00		4:52
18	28 00	65 00		5:14
19	26 00	66 00		5:31
20	24 00	65 00		5:49
21	24 07	67 02		6:05
22	24 14	69 04		6:20
23	23 09	70 34		6:34
24	23 09	72 26		6:48
25	24 14	73 56		7:02
26	26 00	74 30		7:17
27	26 00	76 15		7:30
28	26 00	78 00		7:43



GrADS: COLA/IGES 2004-09-22-20:05

ftp://ftp.aoml.noaa.gov/pub/hrd/aberson/surveillance/040923N.gif 9/23/2004


MI
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AL
MS
AR
LA
40N
35N
30N
25N
8 AM Tue
8 AM Mon
8 AM Sun
11 AM Sat
Hurricane Jeanne
September 25, 2004
11 AM EDT Saturday
NWS TPC/National Hurricane Center
Advisory 48
Current Center Location 26.6 N 77.6 W
Max Sustained Wind 115 mph
Current Movement W at 14 mph
Current Center Location
Forecast Center Positions
H Sustained wind > 73 mph
S Sustained wind 39-73 mph
D Sustained wind < 39 mph
Potential Day 1-3 Track Area
Hurricane Warning
Hurricane Watch
Tropical Storm Warning

Disclaimer

NRL Monterey Marine Meteorology Division (Code 7500) Tropical Cyclone Page
(Ver: 3.7.3)

Development Team

NOTE: this page is short lived (10 m). **DO NOT** bookmark it or save it to Favorites. Instead, bookmark
http://www.nrlmry.navy.mil/tc_pages/tc_home.html

NOTE: Check out the new NexSat page!

2004 Storms

All | Active | Year

Atlantic
- 13L.LISA
- 11L.JEANNE

East Pacific

Central Pacific

West Pacific
- 25W.MEARI

Indian Ocean
- 93A.INVEST

Southern Hemisphere Season: 05
- 91S.INVEST

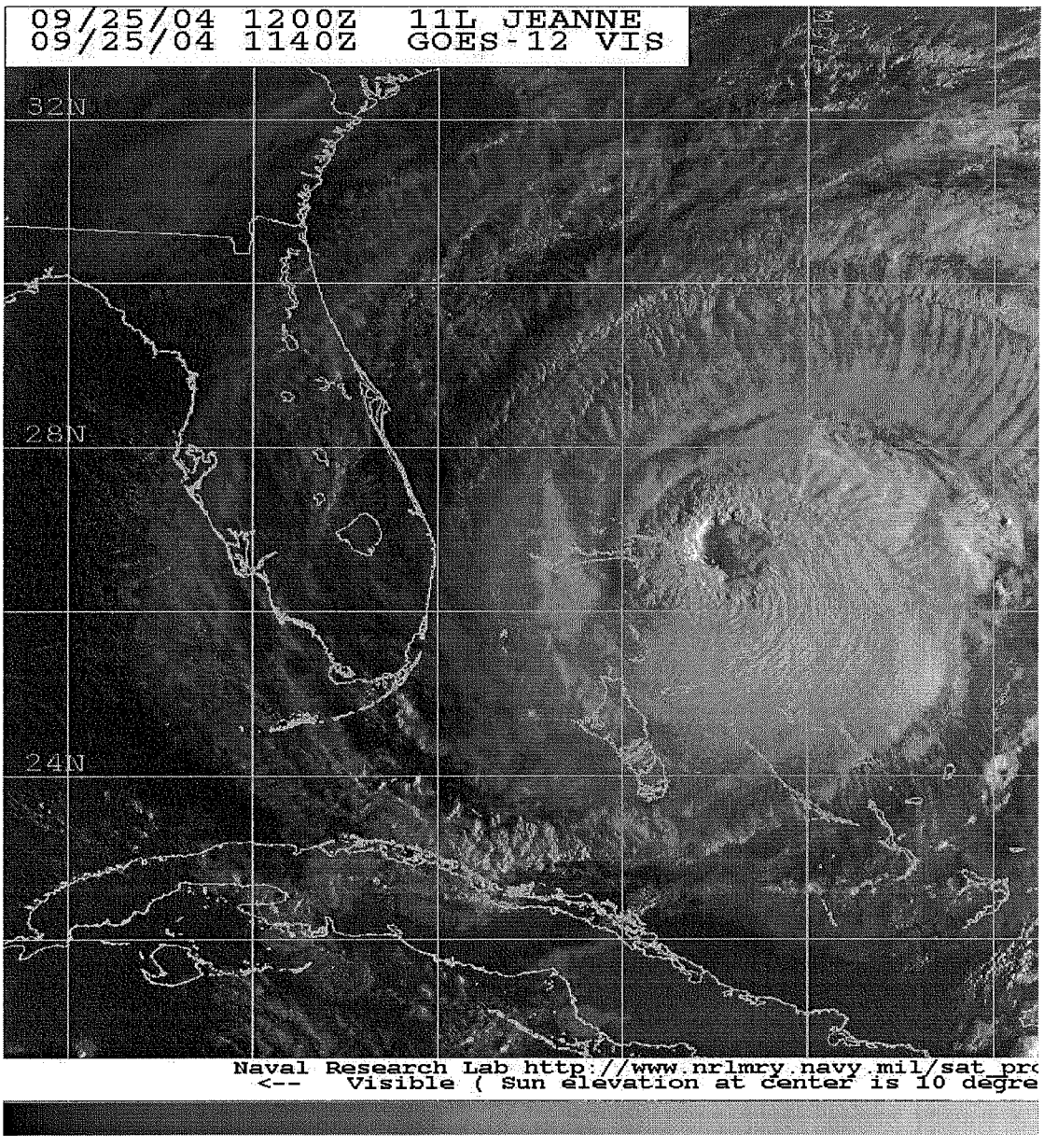
Display: Latest | Pass_Mosaic | Prev. Mosaic | Animate | Warn: ATCF | 1_km: Track&Image | VIS | IR

	VIS	IR	IR-BD	Multi-Sensor	85GHz-H	85GHz-H weak	PCT	Color	Rain	Wind
SSMI:	●	●	●	●	●	●	●	●	●	●
TMI:	●	●	●	●	●	●	●	●	●	●
AMSR-E:	●	●	●	●	●	.	●	●	.	.

●<= 6 hrs. old, ●<= 12 hrs. old, ●> 12 hrs. old

11L.JEANNE, VIS1KM, 25 SEP 2004 1140Z 13:04:25 UTC (Z)

Previous ● | 20040925.1140.goes12.x.vis1km.11LJEANNE.90kts-957mb-265N-770W.jpg | Latest Image



Hurricane JEANNE

Home Public Advisory Forecast/Advisory Discussion Probabilities Maps/Charts Archive

000
WTNT41 KNHC 240843
TCDAT1
HURRICANE JEANNE DISCUSSION NUMBER 43
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL
5 AM EDT FRI SEP 24 2004

THE INTENSITY OF JEANNE IS A BIT OF A PUZZLE THIS MORNING. AN AIR FORCE RESERVE HURRICANE HUNTER AIRCRAFT MEASURED A CENTRAL PRESSURE OF 969 MB...WHICH WOULD NORMALLY SUPPORT WINDS OF NEAR 90 KT. HOWEVER...THE MAXIMUM FLIGHT-LEVEL WINDS REPORTED BY THE AIRCRAFT AT 700 MB WERE ONLY 74 KT...WHICH WOULD SUPPORT CLOSER TO 65 KT SURFACE WINDS. POST-ECLIPSE SATELLITE IMAGES SHOW SOME COOLING OF THE CLOUD TOPS OVER THE SOUTH QUADRANT...BUT ALSO SHOW A MUCH LESS DEFINED EYE. BASED MAINLY ON THE CENTRAL PRESSURE...THE INITIAL INTENSITY IS SET TO 85 KT. HOWEVER...THIS MAY BE GENEROUS.

THE INITIAL MOTION IS NOW 270/7. WATER VAPOR IMAGERY SHOWS THAT A DEEP-LAYER ANTICYCLONE OVER THE EASTERN UNITED STATES IS NOW CENTERED NEAR THE DELMARVA PENINSULA. LARGE-SCALE MODELS INDICATE THIS SYSTEM WILL CONTINUE TO SHIFT TO THE SOUTHEAST AND ELONGATE SOUTHWARD WITH TIME. THIS PATTERN EVOLUTION SHOULD KEEP JEANNE ON A GENERAL WESTWARD COURSE FOR 36-48 HR...FOLLOWED BY A TURN TOWARD THE NORTHWEST AND EVENTUAL RECURVATURE INTO THE WESTERLIES. THE TIMING OF THE TURN IS STILL IN QUESTION...AS THE GFDL HAS SHIFTED FAR ENOUGH TO THE EAST TO MISS THE FLORIDA COAST...WHILE THE NOGAPS DRIVES JEANNE ACROSS SOUTHERN FLORIDA TO THE GULF OF MEXICO BEFORE RECURVATURE. THE OTHER DYNAMICAL MODELS ARE BETWEEN THESE TWO EXTREMES. THE OFFICIAL FORECAST TRACK KEEPS JEANNE ON THE LEFT SIDE OF THE GUIDANCE DURING THE FIRST 36-48 HR...AS THE RIDGE TO THE NORTH MAY NOT ALLOW AS MUCH NORTHWARD MOTION AS SHOWN BY THE GFDL AND GFS. AFTER THAT...THE TRACK FOLLOWS THE MODEL CONSENSUS. IT SHOULD BE NOTED THAT THE UKMET AGAIN APPEARS TO BE TOO FAST IN THE FIRST 12 HR.

THE AIRCRAFT DATA INDICATES THAT JEANNE CURRENTLY HAS A BROAD WIND FIELD...WITH A RADIUS OF MAXIMUM WINDS OF 35-45 NM. BETWEEN THAT AND THE COLD UPWELLING WATER THE HURRICANE IS CURRENTLY OVER... LITTLE CHANGE IN STRENGTH IS LIKELY FOR 12 HR OR SO. BEYOND THAT TIME...JEANNE SHOULD MOVE OVER 82F WATER AND REACH 83-84F WATER BY 36 HR. THIS COULD ALLOW FOR MORE SIGNIFICANT STRENGTHENING IF THE STORM STRUCTURE HAS REORGANIZED BY THAT TIME...AND THE INTENSITY FORECAST CALLS FOR JEANNE TO REACH 100 KT INTENSITY IN 48 HR. THIS IS SLIGHTLY HIGHER THAN BOTH SHIPS AND THE GFDL. AFTER 48 HR...A COMBINATION OF INCREASING SOUTHWESTERLY VERTICAL SHEAR AND LAND INTERACTION SHOULD PRODUCE STEADY WEAKENING.

THE FORECAST TRACK AND WIND RADII REQUIRE A HURRICANE WARNING FOR THE NORTHWESTERN BAHAMAS...A TROPICAL STORM WARNING FOR THE CENTRAL

Centers
TPC Personnel
NOAA Locator
Visitor Information
NHC Library
Joint Hurricane Testbed
WX4NHC Amateur Radio Station
TPC Anonymous FTP Server
Contact Us
Webmaster

BAHAMAS...AND A HURRICANE WATCH FOR PORTIONS OF THE FLORIDA EAST COAST AT THIS TIME.

FORECASTER BEVEN

FORECAST POSITIONS AND MAX WINDS

INITIAL	24/0900Z	26.1N	71.6W	85 KT
12HR VT	24/1800Z	26.1N	73.1W	85 KT
24HR VT	25/0600Z	26.2N	75.4W	90 KT
36HR VT	25/1800Z	26.6N	77.6W	95 KT
48HR VT	26/0600Z	27.1N	79.5W	100 KT
72HR VT	27/0600Z	30.0N	81.5W	80 KT...INLAND
96HR VT	28/0600Z	34.0N	78.5W	50 KT...INLAND
120HR VT	29/0600Z	39.5N	69.5W	35 KT...OVER WATER

$$

Tropical Cyclone, Tropical Weather, & TPC Information Topics:
Storm Information, Hurricane Awareness, Historical Information,
Tropical Analysis and Forecasting Branch, About Us, Contact Us

NOAA/ National Weather Service
National Centers for Environmental Prediction
National Hurricane Center
Tropical Prediction Center
11691 SW 17th Street
Miami, Florida, 33165-2149 USA
Page last modified: Friday, 24-Sep-2004 02:48:24 MDT

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Comments/Feedback

Hurricane JEANNE

Home Public Advisory Forecast/Advisory Discussion Probabilities Maps/Charts Archive

UPDATE Position Estimate

000
WTNT41 KNHC 251508
TCDAT1
HURRICANE JEANNE DISCUSSION NUMBER 48
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL
11 AM EDT SAT SEP 25 2004

HIGH RESOLUTION SATELLITE IMAGES AND SURFACE OBSERVATIONS SHOW THE EYE IS OVER MARSH HARBOR ON THE ABACO ISLAND. THE CLOUD PATTERN IS MUCH BETTER ORGANIZED WITH VERY DEEP CONVECTION SURROUNDING THE EYE AND EXCELLENT OUTFLOW. IN FACT...T-NUMBERS FROM BOTH TAFB AND SAB ARE 6.5 ON THE DVORAK SCALE SUGGESTING WINDS OF 127 KNOTS. AN AIR FORCE PLANE HAS BEEN FLYING ACROSS THE HURRICANE AND REPORTED MAXIMUM WINDS OF 113 KNOT AT FLIGHT LEVEL. INITIAL INTENSITY HAS BEEN INCREASED TO 100 KNOTS. THIS MAKES JEANNE A CATEGORY THREE HURRICANE ON THE SAFFIR/SIMPSON HURRICANE SCALE. THERE IS A CHANCE THAT THE HURRICANE COULD BECOME A CATEGORY FOUR BEFORE LANDFALL IN FLORIDA.

JEANNE CONTINUES TO MOVE TOWARD THE WEST OR 270 DEGREES AT 12 KNOTS. A HIGH PRESSURE SYSTEM CONTINUES TO BE ESTABLISHED TO THE NORTH OF THE HURRICANE. THIS PATTERN WILL CONTINUE TO STEER JEANNE TOWARD THE WEST WITH A GRADUAL TURN TO THE NORTHWEST AROUND THE HIGH DURING THE NEXT 24 HOURS. THIS MOTION WOULD BRING THE CORE OF JEANNE TO THE EAST COAST OF FLORIDA WITHIN THE WARNING AREA LATE TONIGHT OR EARLY SUNDAY. THEREAFTER THE HURRICANE SHOULD CONTINUE ACROSS THE FLORIDA PENINSULA IN AGREEMENT WITH MOST OF THE TRACK MODELS WHICH CONSISTENTLY TURN THE HURRICANE NORTHWESTWARD AROUND THE HIGH. THE OFFICIAL FORECAST IS VERY CLOSE TO THE GLOBAL MODEL CONSENSUS AND THE FSU SUPERENSEMBLE.

FORECASTER AVILA

FORECAST POSITIONS AND MAX WINDS

INITIAL	25/1500Z	26.6N	77.6W	100 KT
12HR VT	26/0000Z	27.0N	79.5W	110 KT
24HR VT	26/1200Z	28.0N	81.5W	75 KT...INLAND
36HR VT	27/0000Z	29.5N	82.5W	45 KT...INLAND
48HR VT	27/1200Z	31.0N	83.0W	30 KT...INLAND
72HR VT	28/1200Z	35.0N	78.5W	25 KT...INLAND
96HR VT	29/1200Z	40.0N	67.0W	30 KT...OVER WATER
120HR VT	30/1200Z	46.0N	54.0W	30 KT...OVER WATER

$$

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Vortex Data Message

```
000
URNT12 KNHC 251750
VORTEX DATA MESSAGE
A. 25/1750Z
B. 26 DEG 51 MIN N
   78 DEG 10 MIN W
C. 700 MB 2673 M
D. 30 KT
E. 216 DEG 107 NM
F. 298 DEG 81 KT
G. 197 DEG 019 NM
H. 953 MB
I. 12 C/ 3075 M
J. 16 C/ 3093 M
K. 13 C/ NA
L. CLOSED WALL
M. C30
N. 12345/7
O. 0.1/3 NM
P. AF963 2111A JEANNE OB 26
   MAX FL WIND 113 KT NE QUAD 1420Z. MAX FL TEMP 17C 318/12NM FROM
   FL CNTR. EYEWALL APPEARS BETTER ORGANIZED. EYE CLOUD FILLED.

;
```

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type, and select the Bound checkbox. Now you can set the dialog to generate not just the field and methods for the property, but also the property change support code. Click OK to generate the following code in the Source Editor:

```
private int red;

private java.beans.PropertyChangeSupport propertyChangeSupport =  new java.beans.Propert

public void addPropertyChangeListener(java.beans.PropertyChangeListener l) {
    propertyChangeSupport.addPropertyChangeListener(l);
}

public void removePropertyChangeListener(java.beans.PropertyChangeListener l) {
    propertyChangeSupport.removePropertyChangeListener(l);
}

public int getRed() {
    return this.red;
}

public void setRed(int red) {
    int oldRed = this.red;
    this.red = red;
    propertyChangeSupport.firePropertyChange("red", new Integer(oldRed), new Integer(red
}
```

Then all you have to do is repeat the process for the `green` and `blue` properties and change the `ColorPreview` constructor to the following:

```
public ColorPreview() {
    propertyChangeSupport = new java.beans.PropertyChangeSupport(this);
}
```

And that's it! You've got a nice working bean ready to be used by the `ColorPicker` program.

Working With Import Statements

Whenever the IDE generates Java source code, it uses the fully qualified names for all the elements it creates. There are two tools that you can use to add import statements to your code and change between simple names and fully qualified names: the Fast Import command and the Import Management Tool.

To use the Fast Import command, place the insertion point on any class name and press Alt-Shift-I. In the following dialog box, specify whether to import the class or the entire package.

Unfortunately, the Fast Import command does not change all fully qualified names for the class to simple names. A more complete tool for handling import statements is the Import Management Tool (IMT). By default, the IMT changes all occurrences of fully qualified names into simple names and creates a single-name import statement for each.

Right-click anywhere in the `ColorPicker` file in the Source Editor and choose Tools > Import Management Tool. The first page of the IMT shows any unresolved identifiers in your file. These can occur when you incorrectly enter the class name or when you are referencing code that you do not have mounted in your project yet. You can enter a new package name to import for the classes, or import the classes as they are written.

At this point, you can click Finish immediately to run the IMT with its default settings. You can also click Next to further customize the tool's actions. For example, if you are importing several classes from a single package, you may want to import the entire package. You can do so on the Removed Unused Imports page of the wizard. Change the Action column for the package from Use Single-Name Import to Use Package

set the Auto Popup Completion Window property and the Delay of Completion Window Auto Popup property accordingly.

You can also turn off the Javadoc preview box for code completion. Select Java Editor and uncheck the Auto Popup Javadoc Window property.

Adding Fields, Bean Properties, and Event Listeners

Even if you prefer to write your code the old-fashioned way, the NetBeans Java editor has some cool code generation features that you may find handy, especially when dealing with bean properties and event listeners.

Let's start by adding some of the fields for our colors in `ColorPreview`. Go to the first line after the class declaration and type in the following code:

```
private int red;
```

Now let's turn this ordinary field into a bean property by making some getter and setter methods for it. Right-click anywhere in the field declaration and choose Tools > Generate R/W Property for Field. The following code is generated in the file:

```
public int getRed() {
    return red;
}

public void setRed(int red) {
    this.red = red;
}
```

The methods now show up under the Methods node. The Bean Patterns node now also contains a bean property node for `red`.

Now let's add both the field and the get and set methods at the same time. In the Filesystems window, right-click the Bean Patterns node for `ColorPreview` and choose Add > Property. In the dialog, enter `green` for the name and `int` for the type, then check Generate Field, Generate Get Method, and Generate Set Method and click OK. The following code is added to the file:

```
private int green;

public int getGreen() {
    return this.green;
}

public void setGreen(int green) {
    this.green = green;
}
```

So far, so good. But to fully generate a working bean that can get and set the value of each of the color bean properties and notify the caller of its changes, we have to add event listeners to each of the set methods. There are two ways to do this. You could right-click the Bean Patterns node and choose Add > Multicast Event Source to add the `java.beans.propertyChangeListener` methods, then enter the rest of the source by hand.

An easier way is to generate all of the necessary code when you create the bean properties. First, let's get rid of all of the methods and fields we have created so far. You can do so by deleting the nodes from the Filesystems window or just by deleting the code in the Source Editor.

Next, right-click the Bean Patterns node and choose Add > Property. Enter `red` for the name, `int` for the

- **Maximize the Source Editor**. Double-click any document tab or press Shift-Escape to hide all other IDE windows. If you have split the Source Editor, only the partition you maximize is displayed.
- **Clone a document.** Right-click the document in the Source Editor and choose Clone Document.
- **Split the Source Editor.** Grabbing any document tab and drag it to the left or bottom margin of the Source Editor. A red box shows you where the new Source Editor partition will reside once you drop the document. Any Source Editor partition can also be split any number of times.
- **Move documents between Source Editor partitions.** Grab the document tab and drag it to the row of tabs in the destination partition.

Configuring the Editor

To configure Source Editor settings, open the Options window and expand Editing > Editor Settings. The Editor Settings node has subnodes for the editors used for each different file type. In this section, we will be looking at configuring the Java editor, but many of the settings are the same for all editors.

Here is a quick overview of some of the more common customizations to the Source Editor:

- **View or change abbreviations.** Open the property editor for the Abbreviations property and make any changes to the list.
- **View or change all keyboard shortcuts for the IDE.** Open the property editor for the Key Bindings property.
- **View or change all recorded macros.** Open the property editor for the Key Bindings property.
- **Turn off code completion.** Set the Auto Popup Completion Window property to False.
- **Set the font size and color for code.** Use the Font Size property to quickly change the font size for all Java code in the Source Editor. Open the property editor for Fonts and Colors to change the font and color of each type of Java code, like method names or strings.
- **Change the indentation used in your code.** You can switch between indentation engines by choosing a new engine from the Indentation Engine property. You can also configure each indentation engine by opening the property editor for the property.
- **Set how many spaces are inserted for each tab in your code.** Set the Tab Size property accordingly.
- **Turn off Javadoc for code completion.** Go to the Expert tab and set the Auto Popup Javadoc Window to False.

Previous - TOC - Next
NetBeans IDE 3.5 version of this guide

From "Peter Black" <Peter.Black@noaa.gov>

Date Saturday, September 25, 2004 1:47 pm

To aoml.hfp@noaa.gov,aoml.cblast@noaa.gov

Subject HRD Field Operations Saturday, 1pm EDT 25 Sept, 2004

OPERATIONS

NOAA P-3s:

NOAA42 took off today from MacDill AFB at 1 pm EDT for an Ocean Winds/ AXBT flight into Hurricane Jeanne. Landing will be at 10 pm tonight at New Orleans Lakeside airport. HRD crew is Paul Leighton operating the radars, CBLAST crew is Trina Lichendorf operating the PDA. Paul Chang is LPS and together with Paul Leighton will coordinate AXBT drops with previous positions coordinated by Joe Cione at HRD yesterday. Joe will be monitoring the flight today via the internet real time link. SFMR surface wind dat will be transimited via ASDL in real time.

NOAA43 will take off this afternoon from MacDill AFB at 3 pm EDT for a tasked reconnaissance and SFMR surface wind mission. Landing will be at New Orleans Lakeside AP around 12:30 am EDT, 9/26. Mike Black from HRD will accompany the mission to monitor the radars and to coordinate AXBT and GPS sonde drops for a possible landfall module on a not to infere basis with the operational mission, which has been coordinated with pete dodge this morning. Trina L. will operate the PDA and Ward Seguin will assist in dropsonde operations.

AOC and HRD crew will be staying tonight at the New Orleans Marriott JW downtown, phone 504-581-1000.

Chris Landsea and Neal Dorst left Tampa this morning at 10 am to drive via GOV white minivan to Miami. Peter Ortner departed Tampa this morning at 8 am for Miami via commercial aircraft. Wen-Chau Lee, Ed Walsh and Jim Lasswell planned to depart Tampa this moring. Rob Rogers left Tampa at noon fro Miami in the GOV Suburban caravaning back to Miami with Eric Uhlhorn who was driving Mike Black's car.

Peter Black will br the last of the HRD contingent to leave Tampa with planned departure this afternoon at 3 pm EDT for Miami driving his Explorer, carrying the flag, water bottles and survival rations. Backup plan is to hunker down in Paul Cahng's room at the Westshore, which he retained. Peter Dodge left Miami for Palm Beach at about noon to be with family.

NOAA G-IV:

The GIV mission for today were was cancelled. No GIV missions are planned for the next 24 hr.

AEROSONDE:

The AEROSONDE will stand down for the time being. Flights are being considered if Jeanne recurves off shore and is still at hurricane strength.

CONFERENCE CALL STATUS:

No conference calls are planned for the next 24 hr

SYNOPTIC SITUATION

Jeanne has intensified this morning with Pmin of 956 mb and Vmax at flight level of 113kt. NHC has classified Jeanne as a CAT3 storm on this basis. Gale force wind radii is at about 200 nm and growing. RMAX is 27 nm and eye diameter is about 30-35 nm. Outer rainbands are beginning to move ashore around Palm Beach and Ft Lauderdale. Jeanne is still moving west at 12 kt, and is now centered at 26.7N, 77.7W- roughly over the extreme west end of Abaco, and the east end of Grand Bahama.

Bon voyage to all Hurricane Hunters and God bless the folks along the Bahamas and Florida East Coast.

Pete Black

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