080721H Dolly

Lead Project Scientist

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 8/21/08 **Aircraft** 42 **Flight ID** 080721H
Dolly

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	M. Black	Flight Director	Barry Damiano
Radar	Sylvie Lorsolo	Pilots	Barry Choy, AL Grammute
Workstation	Sylvie Lorsolo	Navigator	Tim Gallagher, Kiddy
Cloud Physics		Systems Engineer	Steve Wade, Bast
Photographer/Observer /Guests		Data Technician	Bobby Peck
Dropwindsonde	M. Black	Electronics Technician	Bill Olney
AXBT/AXCP	M. Black/Lorsolo	Other	

B. Take-off and Landing Locations:

Take-Off: _____ Location: MacDill

Landing: _____ Location: _____

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
21/12Z	22	88	NW tip of Yucatan	

D. Mission Briefing: Recco, AXBT, Doppler Mission
Fix at 12Z @ 15,500 ft, Doppler legs
@ 5kft, 12 AXBTs - 3-4 lines
ahead of storm at 24 hr fcst,
36 hr fcst

Lead Project Scientist Event Log

Date 7/21/08 Flight 080721 H LPS M. Black

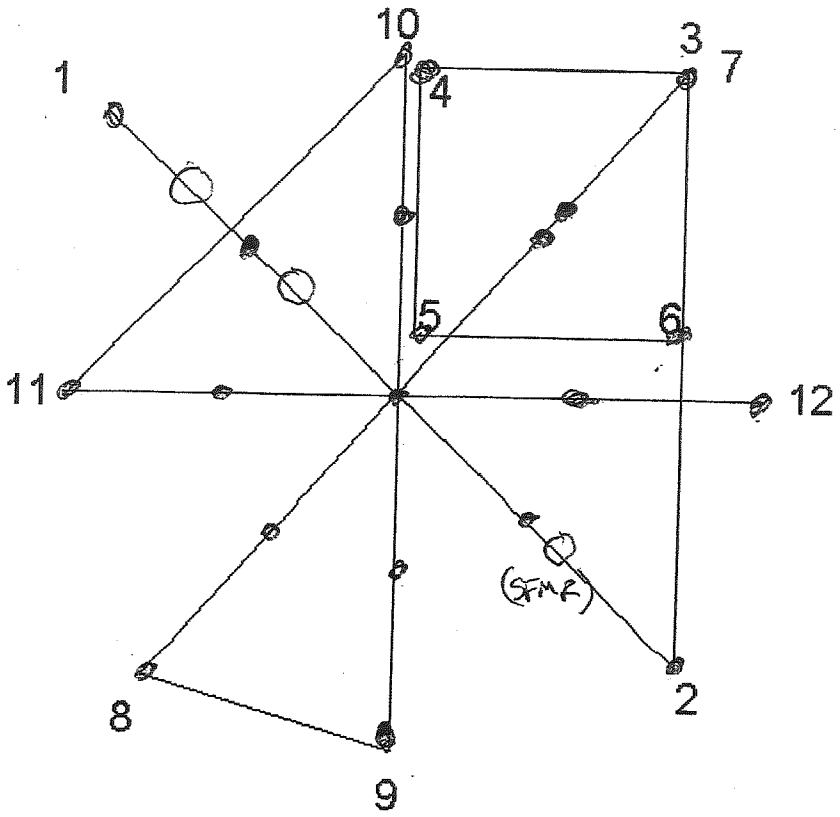
Time	Event	Position	Comments
0857	Take off	MacDill	Delayed 1hr for 12z fix
1027		23 6'N, 86 42'W	IP
1029	Descend to 1,500 ft		
1105	No real center		
1120	105 miles west of cts		
1120	Impressive band oriented N/S		
1122	Turn around head east back		
	to supposed center		
12~~4~~	Center		
1219	East of center		turning to N
1256	NE of center		
1310	Center	~~22~~ 22°04' 89 10'	
1320	west of center		
1321	Climb to	5,000 ft	hdg WNW
	to AXBT grid		
134430	AXBT#1	22.5 91.5	28.4° 35m (?)
Failed 135716	~~AXBT #2~~	23.0 91.0	20 kts SFC ML
135717	Drop #1	Fast Fall	Drop 2 OK
Drop 2 141341	AXBT#3	Ch. 12 23.75 90.5	28.2° 45m ML
Drop 3 142133	AXBT #4	Ch. 12	28.2° 50m ML
Drop 4 143100	AXBT #5	Ch. 12	28.2° 50m ML

Lead Project Scientist Event Log

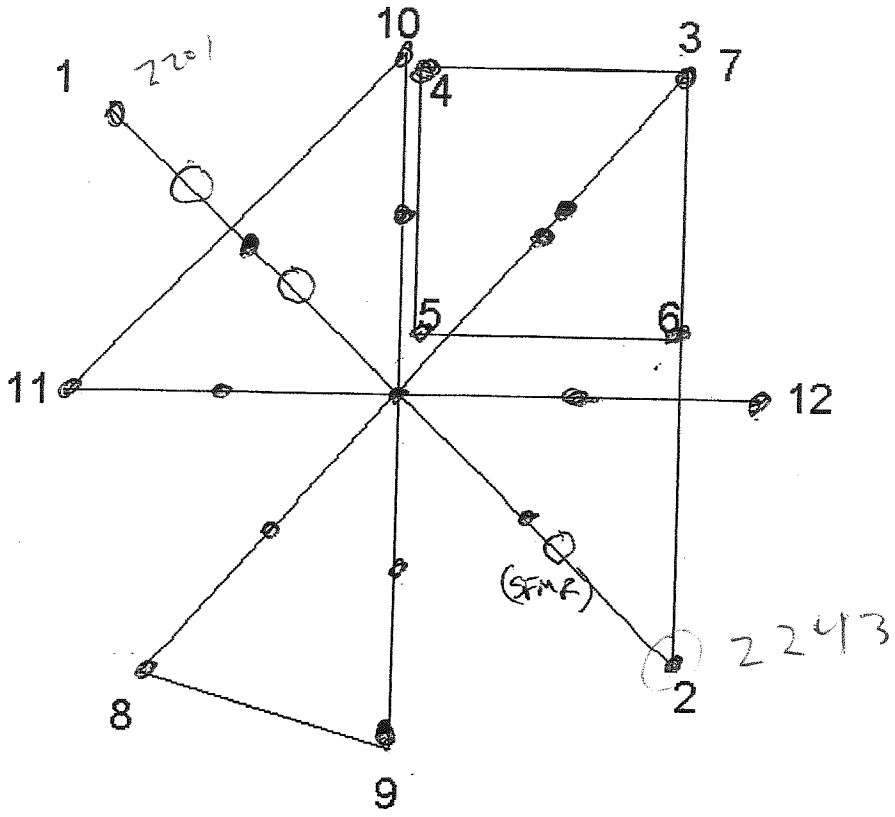
Date _____ Flight _____ LPS _____

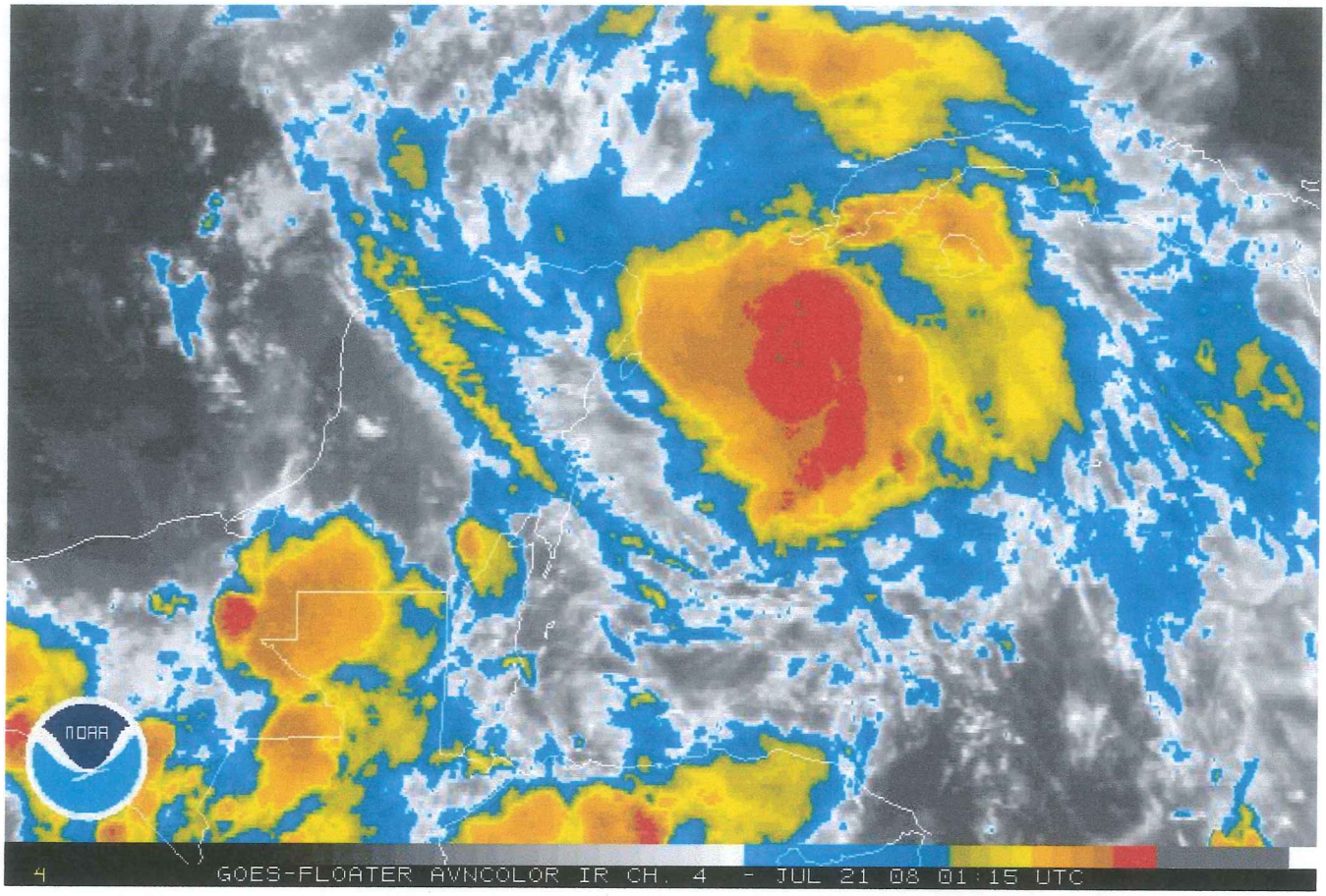
22/00Z Fest BTs 1-2

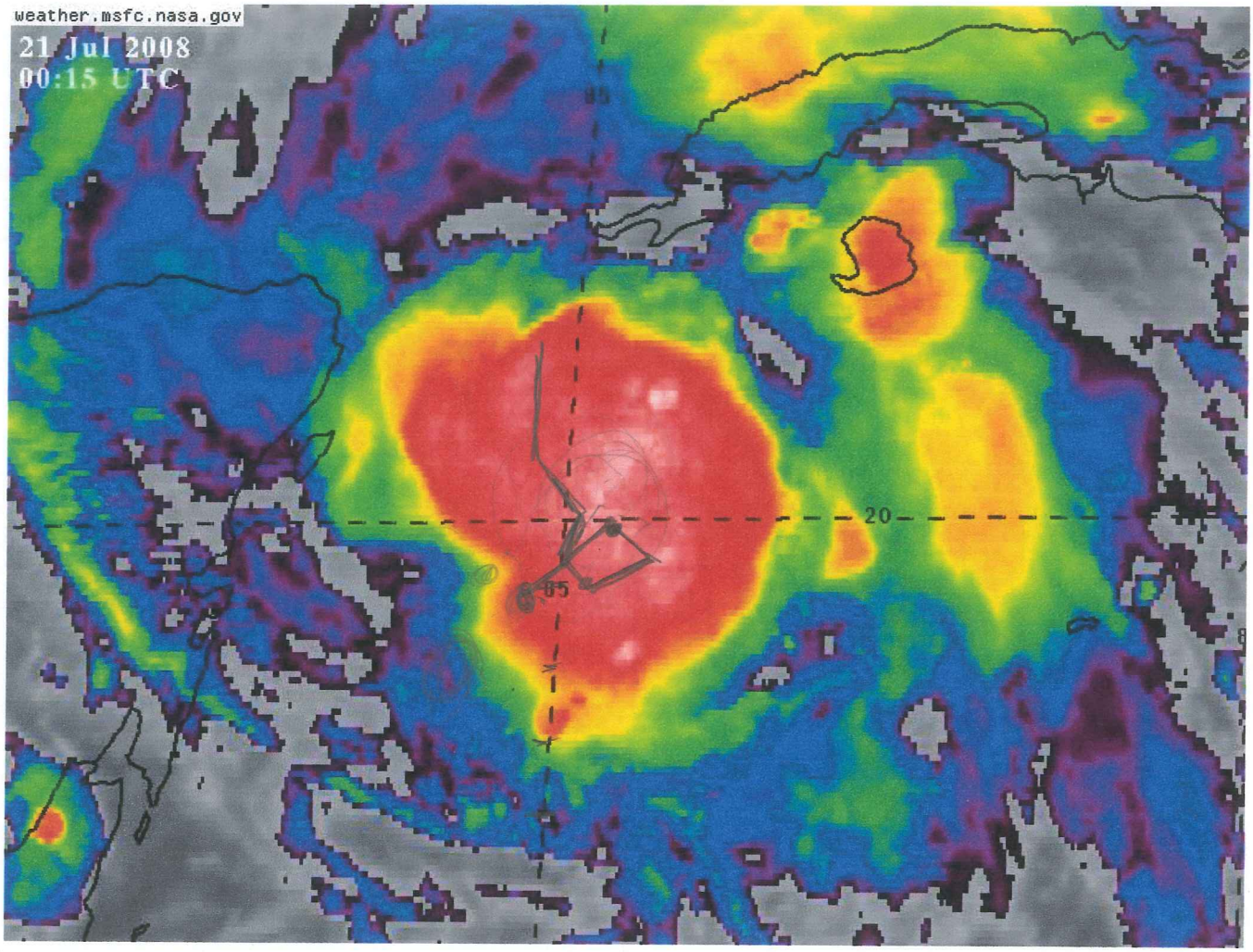
Time	Event	Position	Comments
14307	AXBT #6	28.2° 22.75° 92.0°	
	AXBT #7	22/12Z Fest	24.0 93.0 28.2°
150638	45m MLD 24°	111 92°32'	
151349	AXBT #8	Ch 14 No sonde, 28°	
152058	AXBT #9	24.4 93.15	28.5 Ch. 12
1527	AXBT #10	24.5 91.7	Bad BT Ch. 14
1535	AXBT #11	24.75 91.20	Ch 14 Bad
154140	AXBT #12	24.9 90.8	Ch 14 Bad
	Grab out — head to MacDill		
	Landing 1728		

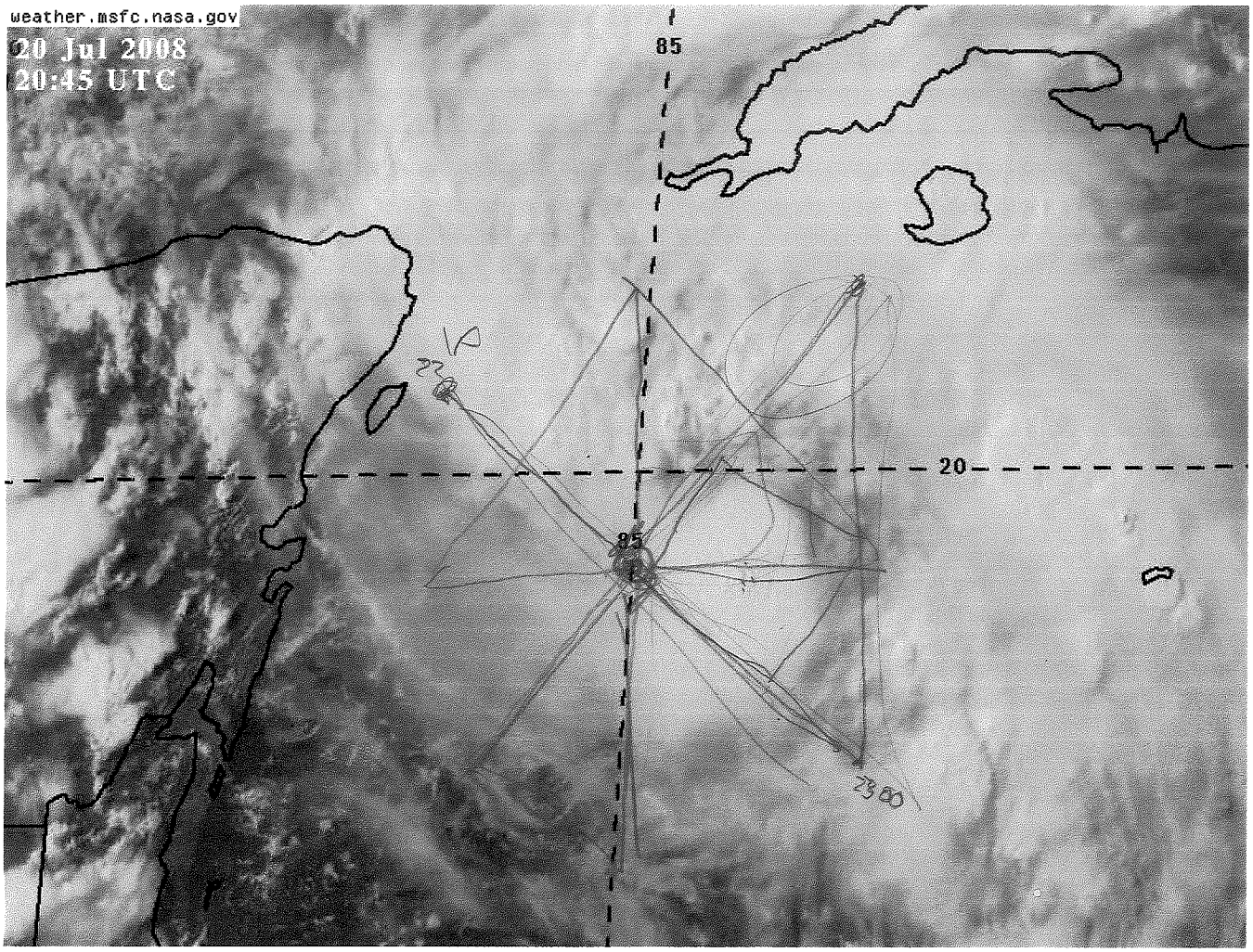

10
3
7
1
4
5
6
11
12
(SFMF)
2
8
9

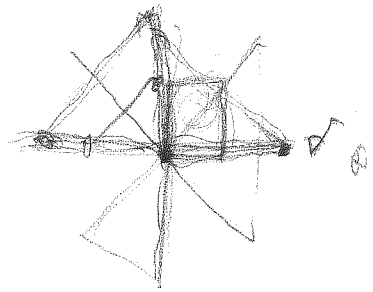
Istart, 2221




NOAA
4
GOES-FLOATER AVNCOLOR IR CH. 4 - JUL 21 08 01:15 UTC


weather.msfc.nasa.gov
21 Jul 2008
00:15 UTC
95
20
85

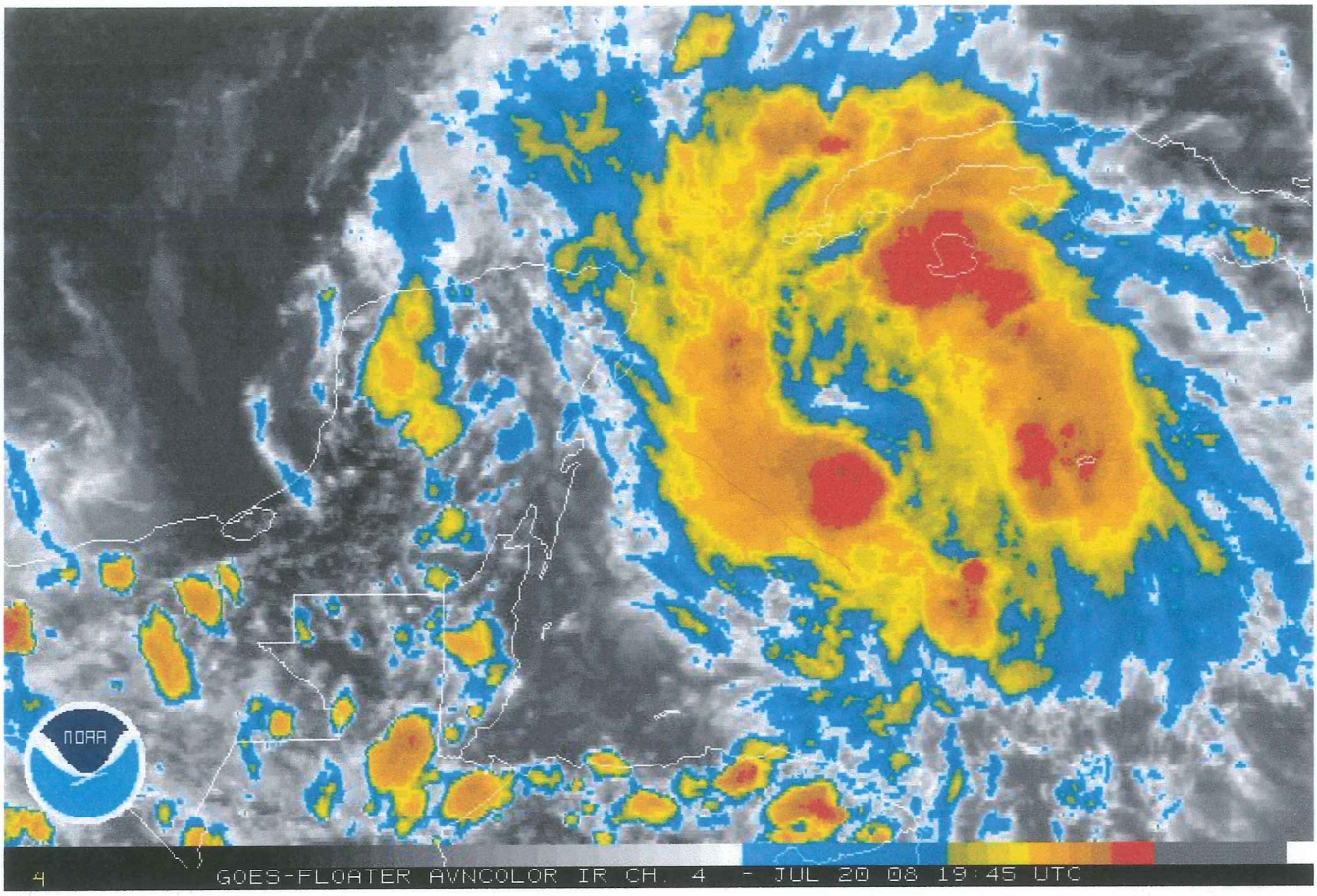




45 min / 4 nm/min

120° 75 nm

(4 nm/min)(45 min) = 180 nm / 4 sides = 45 nm on a side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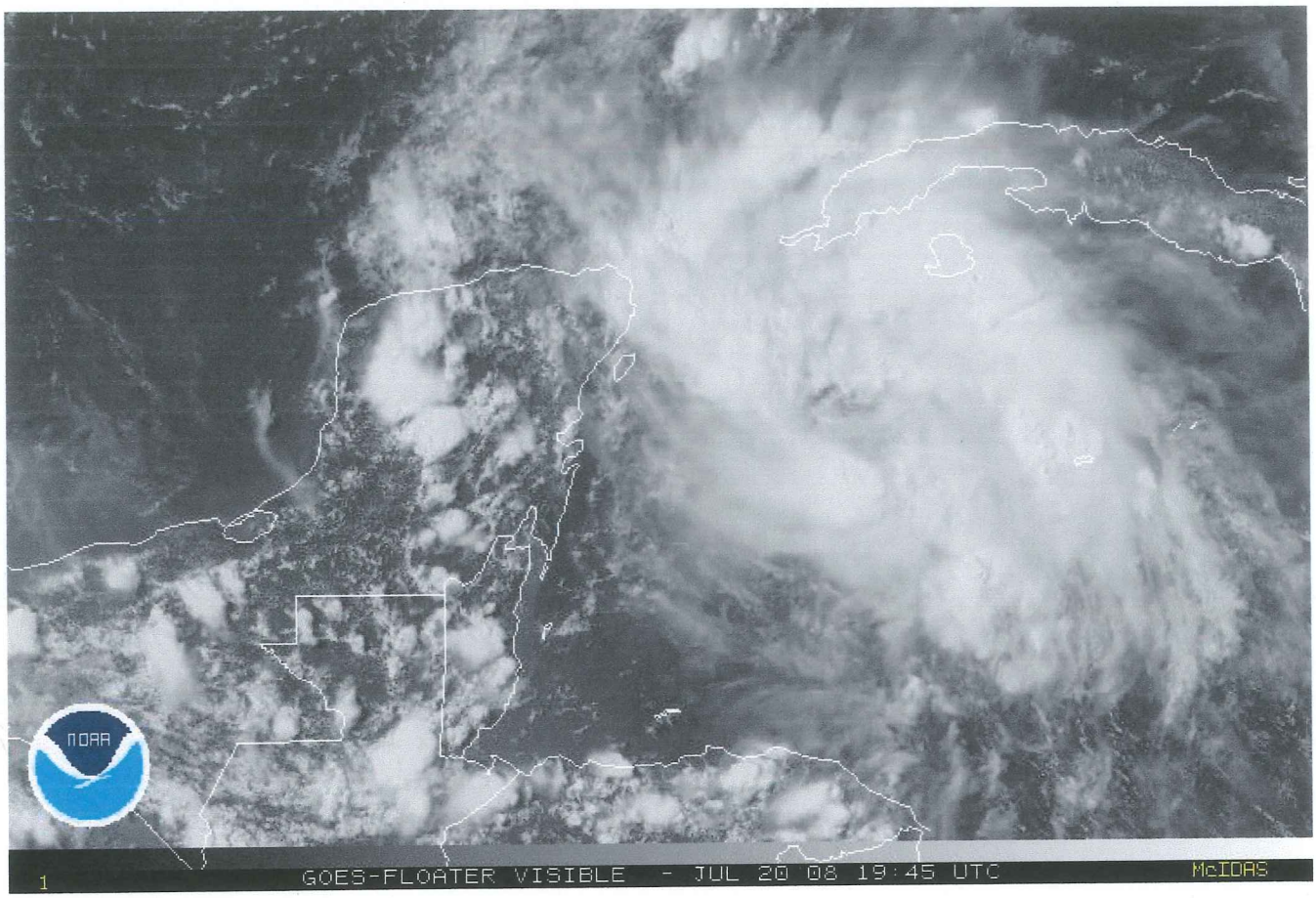
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1
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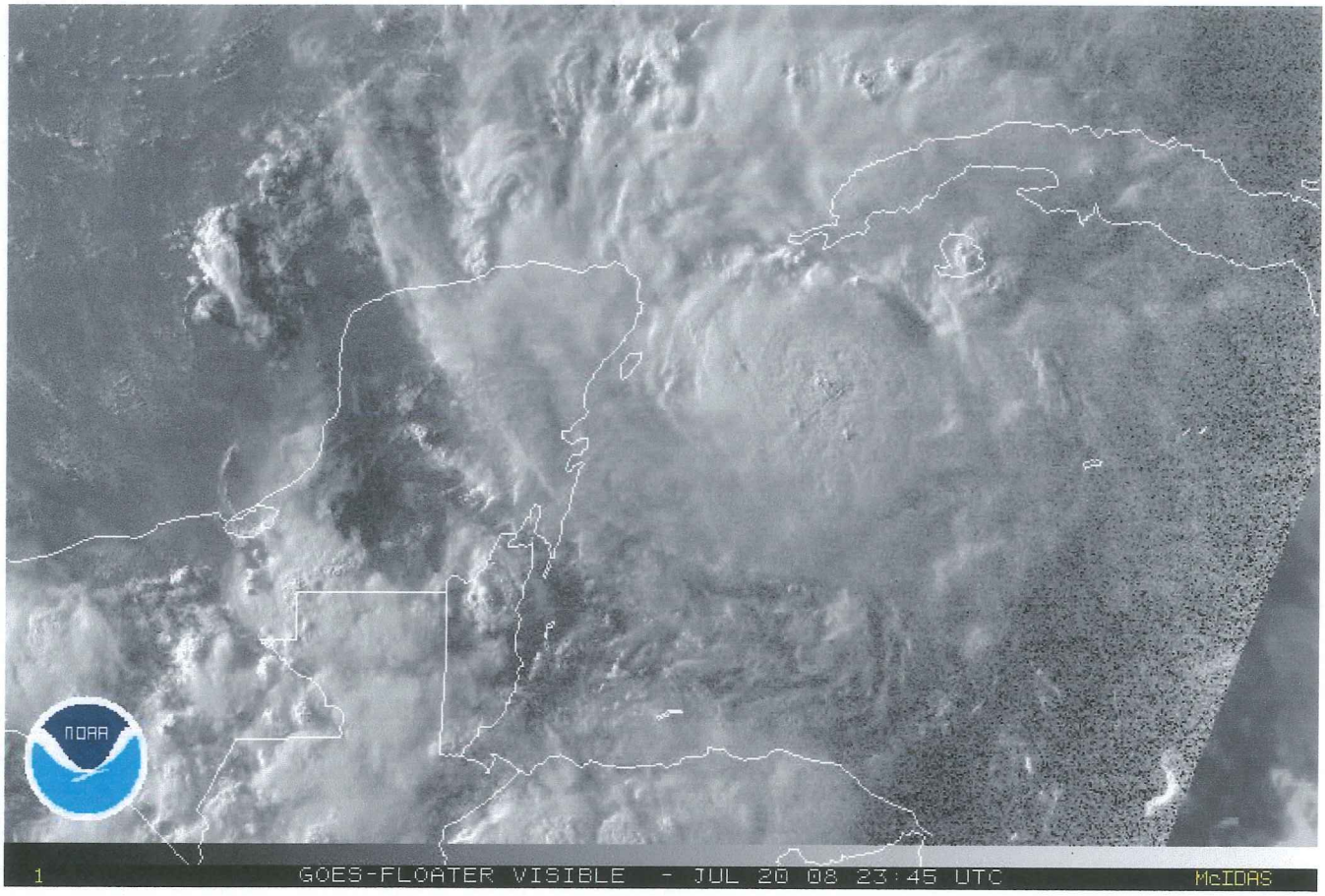
McIDAS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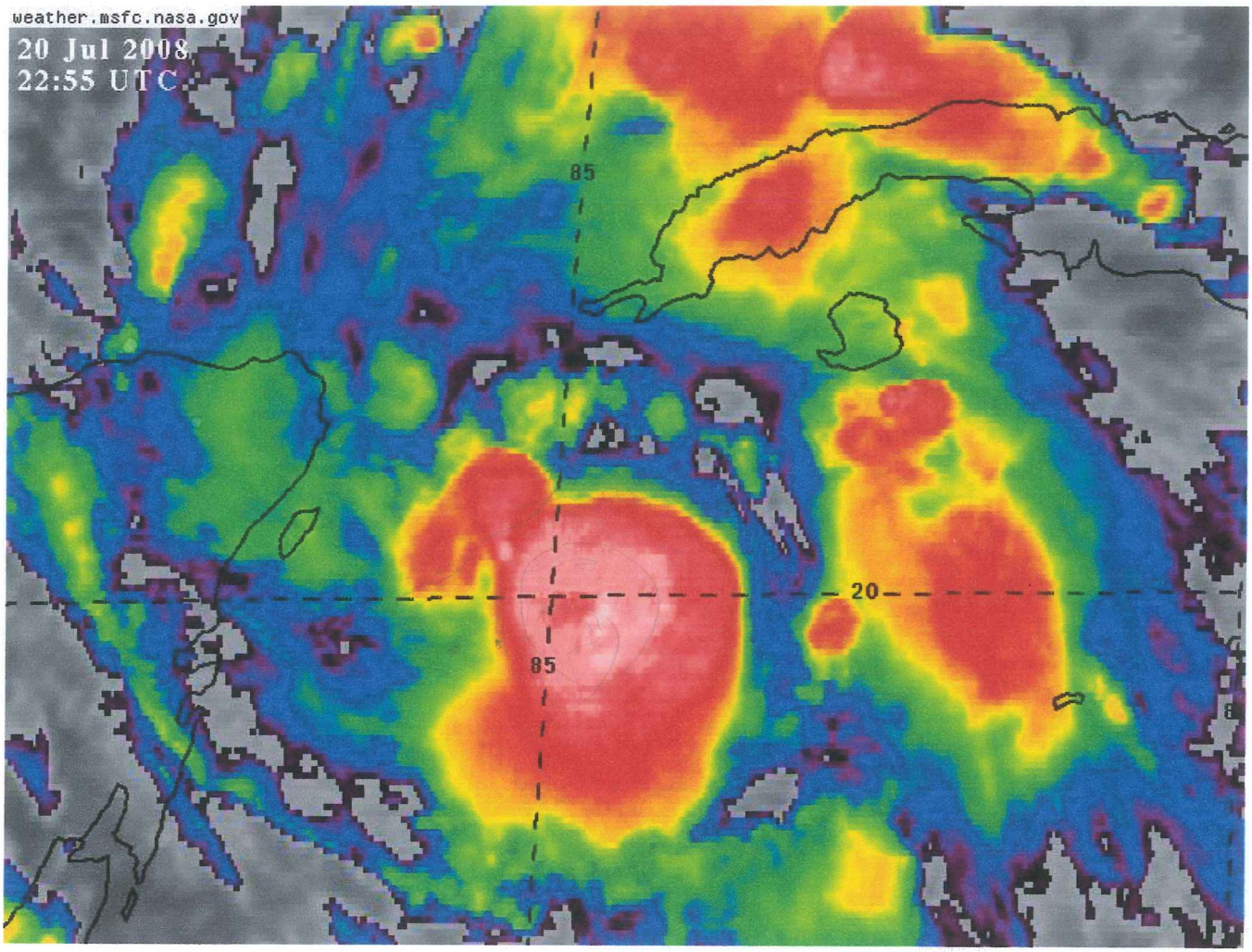
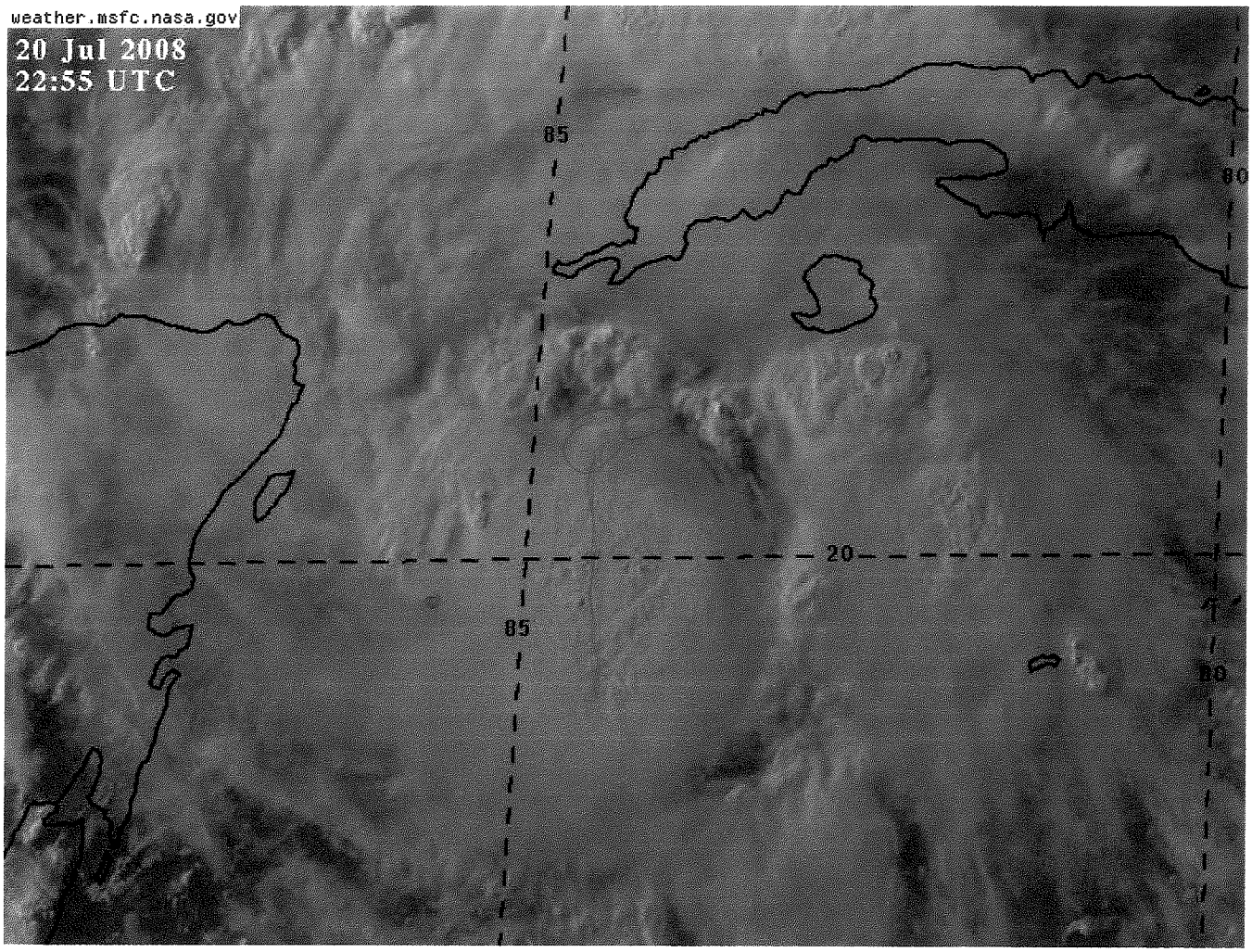
McIDAS


weather.msfc.nasa.gov
20 Jul 2008
22:55 UTC
85
20
85


weather.msfc.nasa.gov
20 Jul 2008
22:55 UTC
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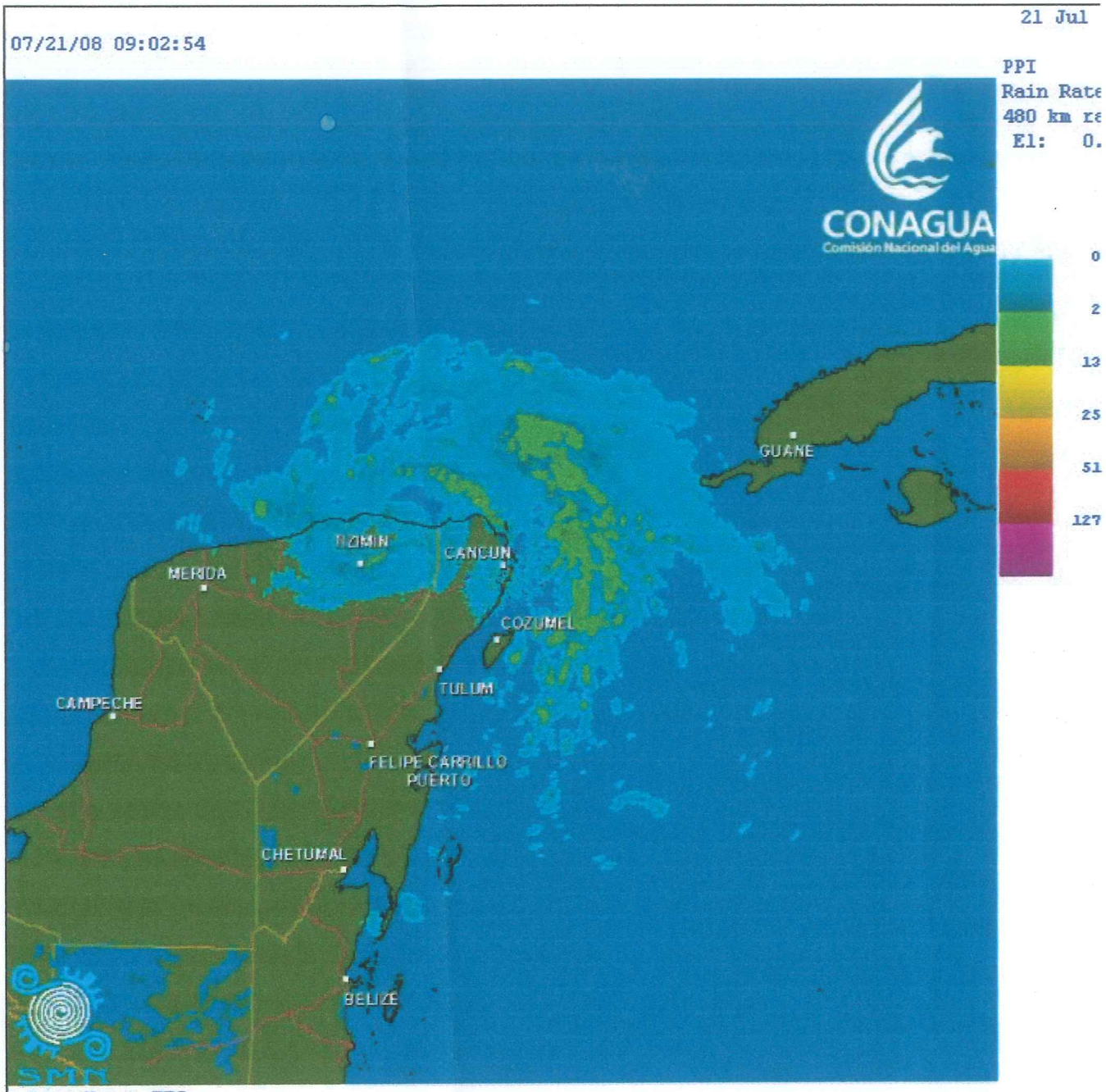
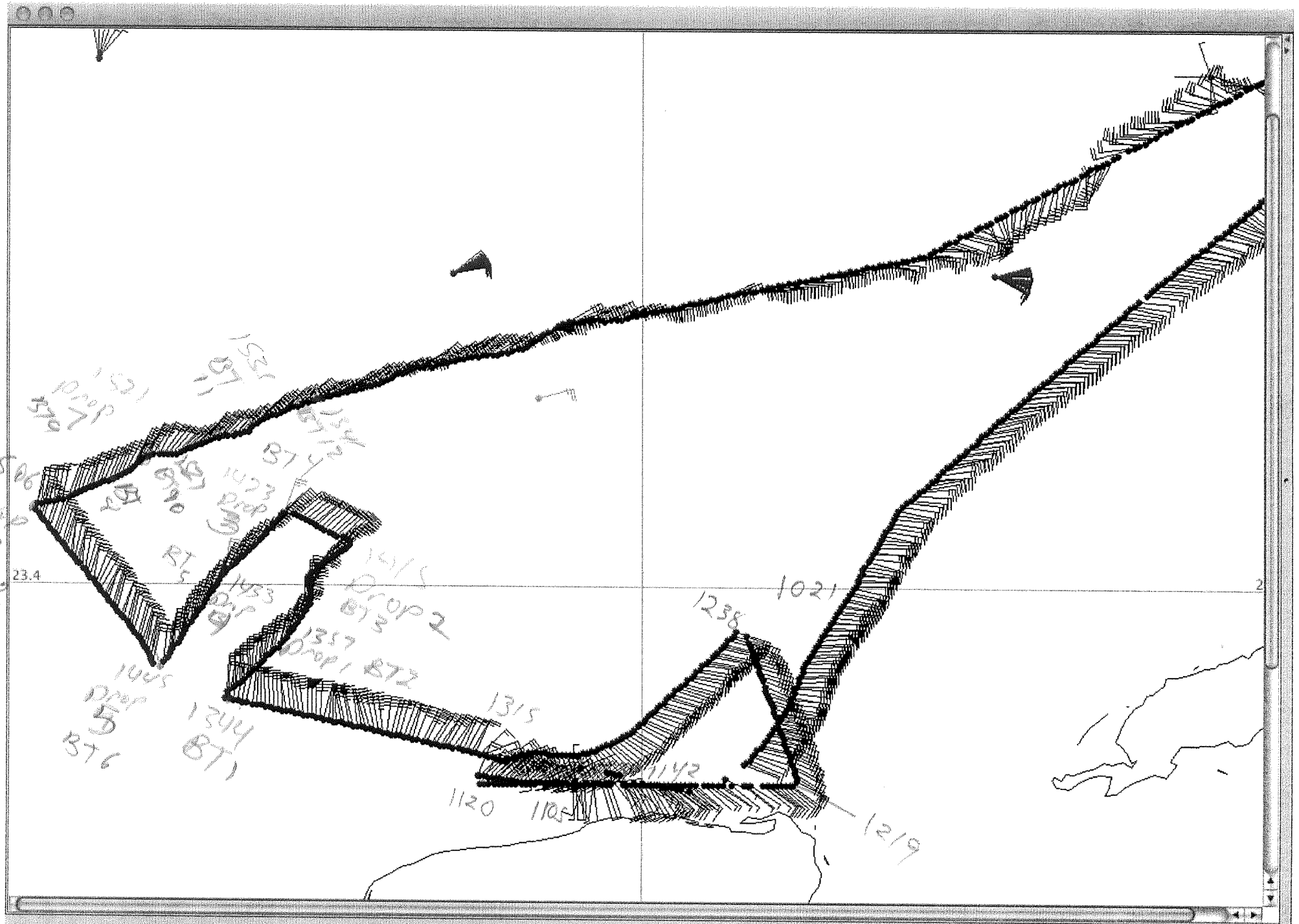
80
20
85
80


21 Jul
07/21/08 09:02:54
PPI
Rain Rate
480 km re
El: 0.
CONAGUA
Comisión Nacional del Agua
0
2
13
25
51
127
GUANE
TIZIMIN
CANCUN
MERIDA
COZUMEL
TULUM
CAMPECHE
FELIPE CARRILLO PUERTO
CHETUMAL
BELIZE
SMN
Site Name: EEC
PRF : 250 Hz
PW : 2 µSec
Range : 480 km
Gates : 240
Gatewidth: 2000 m
Samples : 20
Filter : 0
Normalize: ON

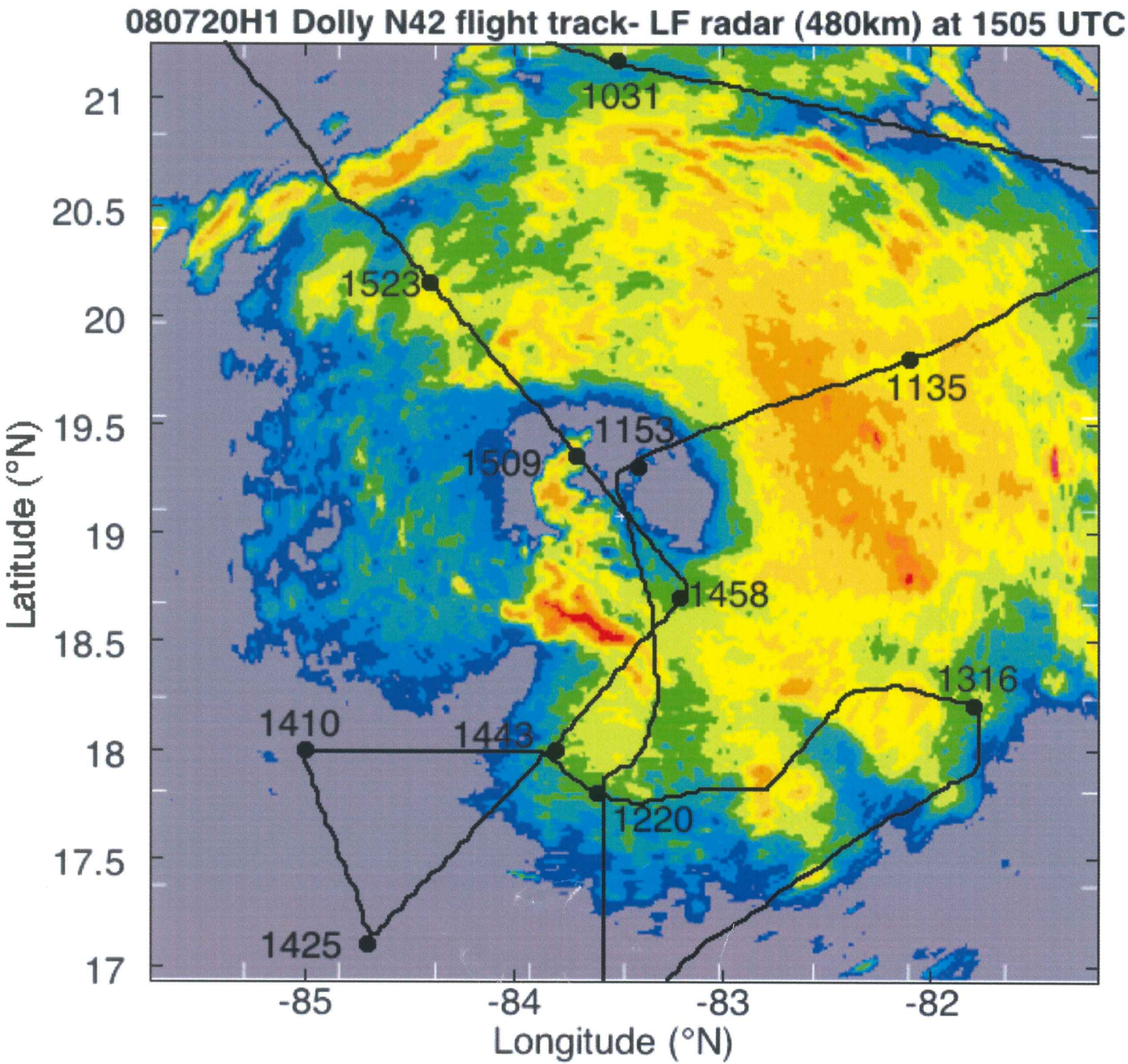


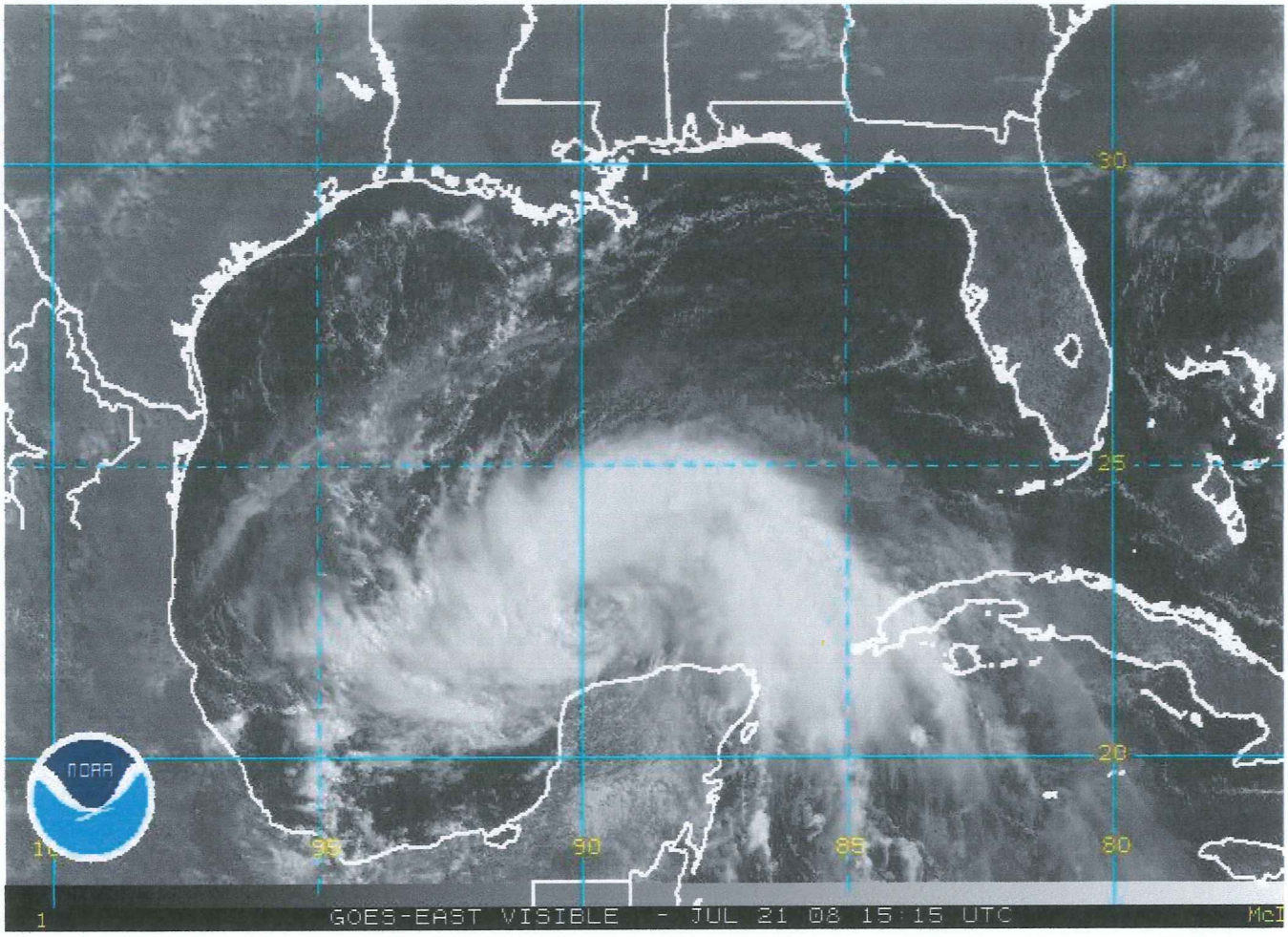
Maximum Wind 52.06 kt at 22.367, -90.850; 13:35z (SFMR42)

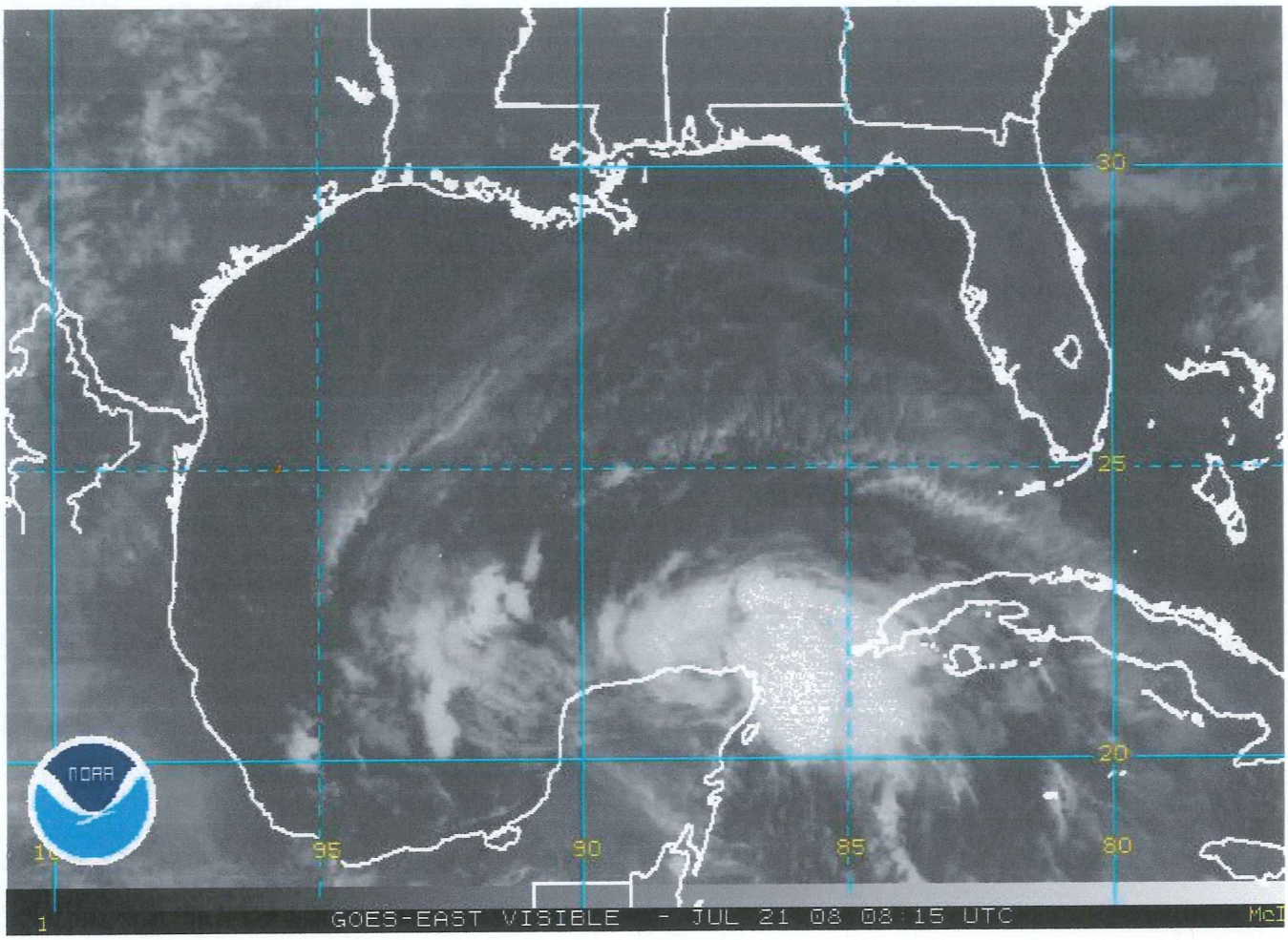
Track: Begin Center End

mblack [*hrd*] logged in. Logout LOCATION: 20.925 lat, -90.190 lon

Auto Pilot for none Check New Data Now


080720H1 Dolly N42 flight track- LF radar (480km) at 1505 UTC
1031
1523
1135
1153
1509
1458
1316
1410
1443
1220
1425
21
20.5
20
19.5
19
18.5
18
17.5
17
-85
-84
-83
-82
Latitude (°N)
Longitude (°N)


30
25
20
95
90
85
80
NOAA
GOES-EAST VISIBLE - JUL 21 08 15:15 UTC


30
25
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95
90
85
80
NOAA
GOES-EAST VISIBLE - JUL 21 08 08:15 UTC

Tropical Storm DOLLY Forecast Discussion

Home Public Adv Fcst/Adv Discussion Wind Probs Maps/Charts Archive

000
WTNT44 KNHC 202053
TCDAT4
TROPICAL STORM DOLLY DISCUSSION NUMBER 2
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL042008
500 PM EDT SUN JUL 20 2008

DOLLY APPEARS TO BE SLOWLY ORGANIZING OVER THE VERY WARM WATERS OF THE NORTHWESTERN CARIBBEAN...ALTHOUGH DATA FROM THE AIR FORCE RECONNAISSANCE AIRCRAFT INDICATE THE LOW-LEVEL CIRCULATION IS NOT QUITE AS WELL-DEFINED AS IT WAS THIS MORNING. DEEP CONVECTION HAS BEEN PERSISTENT THROUGHOUT THE DAY...AND SFMR AND FLIGHT-LEVEL WINDS SUPPORT MAINTAINING THE INTENSITY AT 40 KT. UPPER-LEVEL OUTFLOW IS GRADUALLY EXPANDING...EVEN TO THE WEST...AS WATER VAPOR IMAGERY SHOWS THAT THE UPPER-LEVEL LOW JUST WEST OF DOLLY IS HEADED RAPIDLY SOUTHWESTWARD AND IS WEAKENING. DOLLY IS NOT EXPECTED TO STRENGTHEN MUCH...IF AT ALL...AS IT CROSSES THE YUCATAN PENINSULA EARLY TOMORROW. ONCE IT EMERGES OVER THE SOUTHERN GULF... HOWEVER...IT WILL BE SITUATED BENEATH A LARGE UPPER-LEVEL ANTICYCLONE AND OVER SEA-SURFACE TEMPERATURES OF AT LEAST 28 CELSIUS. GIVEN THESE CONDITIONS...AND ASSUMING THE CYCLONE REMAINS INTACT AND VERTICALLY ALIGNED AFTER ITS PASSAGE OVER YUCATAN... STRENGTHENING OVER THE GULF APPEARS TO BE THE MOST LIKELY SCENARIO. ALL OF THE PRIMARY OBJECTIVE INTENSITY MODELS FORECAST THAT TO HAPPEN...AND ALL FORECAST DOLLY TO ATTAIN HURRICANE STATUS OVER THE WESTERN GULF. THE NEW OFFICIAL INTENSITY FORECAST FOLLOWS THAT GUIDANCE...BUT IT IS IMPORTANT TO REMEMBER THAT LONG-RANGE INTENSITY FORECASTS HAVE A SIGNIFICANT AMOUNT OF UNCERTAINTY.

EVEN WITH THE AIRCRAFT DATA...THE INITIAL MOTION HAS BEEN A LITTLE DIFFICULT TO GAUGE...BUT IT IS ESTIMATED TO BE 305/12. THE MODELS FORECAST A SOMEWHAT FASTER FORWARD MOTION DURING THE NEXT 24-36 HOURS...BUT THE OFFICIAL FORECAST LAGS A LITTLE BEHIND THE CONSENSUS DURING THAT PERIOD...GIVEN THE SLOWER INITIAL MOTION AND THAT THERE IS NO STRONG INDICATION FROM THE MODEL FIELDS THAT DOLLY SHOULD ACCELERATE MUCH. THE MID-LEVEL RIDGE ALONG THE GULF COAST IS FORECAST BY ALL OF THE MODELS TO GRADUALLY WEAKEN AFTER DOLLY REACHES THE GULF...SO THEY ALL FORECAST A DECREASE IN FORWARD MOTION STARTING IN A COUPLE OF DAYS. THE TRACK MODEL SPREAD IS NOT ALL THAT LARGE THROUGH 72 HOURS...AND THE CONSENSUS HAS NOT MOVED MUCH SINCE THIS MORNING...SO THE NEW OFFICIAL TRACK IS VERY SIMILAR TO THE PREVIOUS ONE...JUST PERHAPS A LITTLE FASTER AT THE END. IT IS FAR TOO EARLY TO DETERMINE EXACTLY WHERE DOLLY WILL MAKE FINAL LANDFALL.

19.33 85.25 at 00 UTC

FORECAST POSITIONS AND MAX WINDS

INITIAL	20/2100Z	18.9N	85.0W	40 KT
12HR VT	21/0600Z	20.1N	86.9W	45 KT
24HR VT	21/1800Z	21.6N	89.8W	45 KT
36HR VT	22/0600Z	22.9N	92.4W	50 KT
48HR VT	22/1800Z	23.8N	94.1W	55 KT
72HR VT	23/1800Z	25.0N	96.5W	65 KT
96HR VT	24/1800Z	26.0N	99.0W	35 KT...INLAND
120HR VT	25/1800Z	27.0N	101.5W	25 KT...INLAND

19.3 85.65 interp

.4

40kts at 25 nm

$$
FORECASTER KNABB

Local forecast by "City, St" or "ZIP"
Go
Text-only | Cell
Get Storm Info
Satellite | Radar
Aircraft Recon
Advisory Archive
Experimental
Mobile Products
E-mail Advisories
Audio/Podcasts
GIS Data | RSS
Help with Advisories
Marine Forecasts
Atlantic and E Pacific
Forecast and Analysis Tools
Help with Marine
Hurricane Awareness
Be Prepared | Learn
Frequent Questions
AOML Research
Hurricane Hunters
Saffir-Simpson Scale
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Tropical Storm DOLLY

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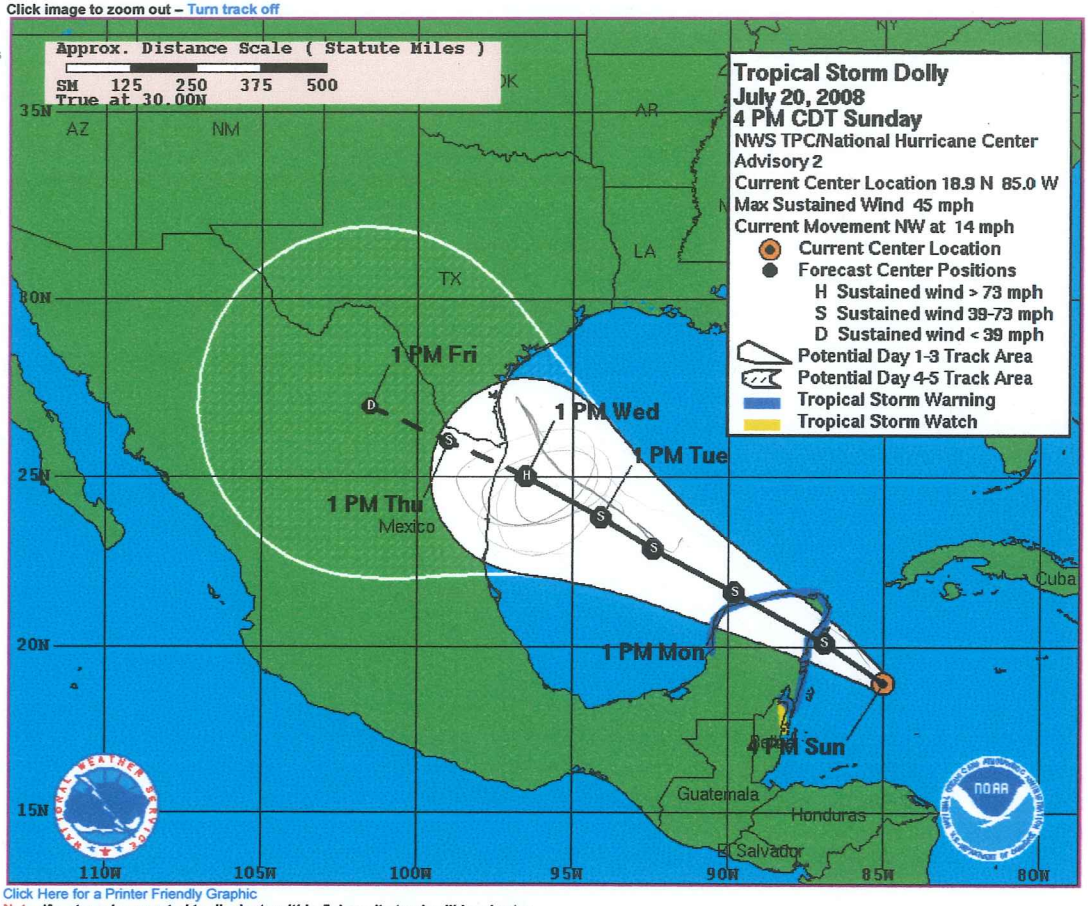
Hurricane Wind Speed Probability
50-knot Wind Speed Probability
Trop Storm Wind Speed Probability
Maximum Wind Speed Probability
Warnings and 3-Day Cone
Warnings and 5-Day Cone
Experimental
Warnings and Surface Wind
Mariner's 1-2-3 Rule
Wind History

Coastal Watches/Warnings and 5-Day Track Forecast Cone

Click image to zoom out – Turn track off



Click Here for a Printer Friendly Graphic

Note: If a storm is expected to dissipate within 5 days, its track will be shorter

About this product:

This graphic shows an approximate representation of coastal areas under a hurricane warning (red), hurricane watch (pink), tropical storm warning (blue) and tropical storm show the National Hurricane Center (NHC) forecast track of the center at the times indicated. The dot indicating the forecast center location will be black if the cyclone is fo then the system is forecast to be a remnant low. The letter inside the dot indicates the NHC's forecast intensity for that time.

NHC forecast tracks of the center can be in error; track forecast errors in recent years were used to construct the areas of uncertainty for the first 3 days (solid white area) a circles (not shown) along the forecast track (at 12, 24, 36 hours, etc). The size of each circle is set so that two-thirds of historical official forecast errors over a 5-year sampl the outer uncertainty area about 60-70% of the time. There is also uncertainty in the NHC intensity forecasts. The Maximum 1-minute Wind Speed Probability Table provid

It is also important to realize that a tropical cyclone is not a point. Their effects can span many hundreds of miles from the center. The area experiencing hurricane force (o winds can extend well beyond the white areas shown enclosing the most likely track area of the center. The distribution of hurricane and tropical storm force winds in this tr

Considering the combined forecast uncertainties in track, intensity, and size, the chances that any particular location will experience winds of 34 kt (tropical storm force), 5(positions. This information is also presented in graphical form for the 34 kt, 50 kt, and 64 kt thresholds.

Note: A detailed definition of the NHC track forecast cone is also available.

Local forecast by "City, St" or "ZIP"
Go
Text-only | Cell

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Atlantic and E Pacific
Forecast and
Analysis Tools
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Hurricane Awareness
Be Prepared | Learn
Frequent Questions
AOML Research
Hurricane Hunters
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Most Extreme

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The NCEP Centers

Contact Us – Help

Vortex Data Message

```
000
URNT12 KNHC 201949
VORTEX DATA MESSAGE AL042008
A. 20/19:21:00Z
B. 18 deg 38 min N
   084 deg 44 min W
C. NA mb NA m
D. 20 kt
E. 129 deg 41 nm
F. 167 deg 024 kt
G. 130 deg 053 nm
H. EXTRAP 1008 mb
I. 24 C/ 400 m
J. 23 C/ 398 m
K. 20 C/ NA
L. NA
M. NA
N. 134/1
O. 0.02 / 5 nm
P. AF304 0604A DOLLY        OB 09
MAX FL WIND 45 KT NE QUAD 17:12:20 Z
MAX FL TEMP 24 C, 130 / 52NM
SLP EXTRAP FROM 1500 FT
MAX OUTBOUND FL WIND 24KT NW QUAD 1931Z
```

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NOAA/ National Weather Service
National Centers for Environmental Prediction
National Hurricane Center
Tropical Prediction Center
11691 SW 17th Street
Miami, Florida 33165-2149 USA
nhcwebmaster@noaa.gov
Page last modified: Sunday, 20-Jul-2008 19:50:19 GMT

Tropical Storm DOLLY Forecast Discussion

000
WTNT44 KNHC 210856
TCDAT4
TROPICAL STORM DOLLY DISCUSSION NUMBER 4
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL042008
500 AM EDT MON JUL 21 2008

SATELLITE IMAGERY AND RADAR OBSERVATIONS FROM CANCUN MEXICO INDICATE THAT THE MID-LEVEL CENTER OF THE TROPICAL CYCLONE REFORMED TO THE NORTH OF THE PREVIOUS TRACK. HOWEVER...SYNOPTIC DATA CAST DOUBT ON THE EXISTENCE OF A SURFACE CIRCULATION CENTER. SINCE THE SYSTEM CONTINUES TO GENERATE VIGOROUS CONVECTION AND STRONG WINDS...AND IT APPEARS LIKELY THAT THE SURFACE CENTER WILL SOON REAPPEAR...IT IS PRUDENT TO CONTINUE ISSUING ADVISORIES AND WARNINGS ON DOLLY.

THE CURRENT INTENSITY ESTIMATE IS 45 KT...IN LINE WITH THE LATEST DVORAK ANALYSES FROM TAFB. AN UPPER-LEVEL LOW IS MOVING INTO THE BAY OF CAMPECHE AND SEEMS TO BE INCREASING ITS SEPARATION DISTANCE FROM THE TROPICAL CYCLONE...AND ALSO DIMINISHING ITS SHEARING INFLUENCE. UPPER-LEVEL OUTFLOW IS EXPANDING OVER THE NORTHERN SEMICIRCLE OF DOLLY AND THIS...COMBINED WITH THE WARM WATERS OF THE GULF OF MEXICO...PRESAGES INTENSIFICATION. THE CURRENT NHC INTENSITY FORECAST IS SIMILAR TO THE PREVIOUS ONE AND ALSO SIMILAR TO THE DYNAMICAL INTENSITY MODEL CONSENSUS.

WITH THE LACK OF A SURFACE CENTER AND THE REFORMATION...INITIAL MOTION IS SOMEWHAT UNCERTAIN. MY BEST GUESS...305/13...IS NOT MUCH DIFFERENT THAN IN THE PREVIOUS PACKAGE. A MID-LEVEL RIDGE TO THE NORTH OF THE STORM IS FORECAST TO WEAKEN IN A COUPLE OF DAYS AND THE TRACK GUIDANCE IS FAIRLY CONSISTENT IN CALLING FOR A SLOWING OF FORWARD SPEED BY 48 HOURS...THEREAFTER...THE KEY PLAYER IN THE STEERING PATTERN FOR DOLLY IS A MID-LEVEL RIDGE OVER THE SOUTHERN PLAINS. GLOBAL MODELS SHOW SLIGHTLY DIFFERENT STRENGTHS AND CONFIGURATIONS OF THIS RIDGE AROUND 72 HOURS AND DIFFERENT LATITUDES OF LANDFALL ALONG THE WESTERN GULF OF MEXICO COAST. ALTHOUGH ONE SHOULD NOT FOCUS ON THE EXACT LANDFALL POINT IN 2 TO 3 DAYS TIME...INTERESTS IN THE WESTERN GULF OF MEXICO SHOULD MONITOR THE PROGRESS OF DOLLY.

ANOTHER NOAA P3 AIRCRAFT IS SCHEDULED TO INVESTIGATE THE STORM LATER THIS MORNING.

FORECAST POSITIONS AND MAX WINDS

INITIAL	21/0900Z	21.3N	87.4W	45 KT
12HR VT	21/1800Z	22.6N	89.6W	50 KT
24HR VT	22/0600Z	23.6N	92.2W	55 KT
36HR VT	22/1800Z	24.4N	94.2W	65 KT
48HR VT	23/0600Z	25.0N	95.5W	75 KT

```
 72HR VT     24/0600Z 26.0N  98.0W     65 KT...INLAND
 96HR VT     25/0600Z 26.5N 100.5W     30 KT...INLAND
120HR VT     26/0600Z...DISSIPATED

$$
FORECASTER PASCH
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National Centers for Environmental Prediction
National Hurricane Center
Tropical Prediction Center
11691 SW 17th Street
Miami, Florida 33165-2149 USA
nhcwebmaster@noaa.gov
Page last modified: Monday, 21-Jul-2008 08:56:38 GMT

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Tropical Storm DOLLY Forecast Discussion

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WTNT44 KNHC 211500
TCDAT4
TROPICAL STORM DOLLY DISCUSSION NUMBER 5
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL042008
1100 AM EDT MON JUL 21 2008

THERE IS LITTLE DOUBT NOW THAT DOLLY HAS A CLOSED SURFACE CIRCULATION...WHICH HAS BECOME EVIDENT IN VISIBLE SATELLITE IMAGERY OVER THE GULF OF MEXICO JUST OFF THE NORTHERN COAST OF THE YUCATAN PENINSULA. A NOAA RECONNAISSANCE AIRCRAFT RECENTLY CONFIRMED THE EXISTENCE OF THE CLOSED CIRCULATION IN THE LOW-LEVEL WIND FIELD...AND FOUND THAT MAXIMUM WINDS REMAIN ABOUT 45 KT. THE DEEP CONVECTION IS NOW STARTING TO WRAP AROUND THE WESTERN SIDE OF THE CIRCULATION...AND OUTFLOW CONTINUES TO EXPAND IN ALL QUADRANTS. A LARGE UPPER-LEVEL ANTICYCLONE COVERS MOST OF THE GULF OF MEXICO...SO THE ATMOSPHERIC ENVIRONMENT APPEARS QUITE CONDUCIVE FOR STRENGTHENING...AND THE SEA-SURFACE TEMPERATURES ALONG THE ENTIRE OVER-WATER FORECAST TRACK ARE QUITE WARM. IN ABOUT 18-24 HOURS...DOLLY IS EXPECTED TO PASS OVER SSTS GREATER THAN 29 CELSIUS...AND A RELATIVE MAXIMUM IN OCEAN HEAT CONTENT...AN AREA WITH A SOMEWHAT DEEPER RESERVOIR OF WARM WATER BENEATH THE SURFACE. AS A RESULT OF THESE CONDITIONS...STRENGTHENING APPEARS LIKELY...BUT GIVEN THE CURRENT SPRAWLING NATURE OF THE CIRCULATION...THE RATE OF INTENSIFICATION IS DIFFICULT TO FORECAST...SINCE IT IS UNCERTAIN HOW LONG IT WILL TAKE FOR A TRUE INNER CORE TO DEVELOP. THE NEW OFFICIAL FORECAST LEANS TOWARD THE HIGHER END OF THE INTENSITY GUIDANCE...CLOSE TO THE GFDL SOLUTION...IN CALLING FOR A SLIGHTLY HIGHER PEAK INTENSITY THAN THE PREVIOUS ADVISORY. SINCE THE EXACT TIMING AND LOCATION OF LANDFALL ARE UNCERTAIN...THE FORECAST WEAKENING BETWEEN 48 AND 72 HOURS ONLY RESULTS FROM THE 72-HOUR POINT BEING INLAND...AND A STRENGTHENING TREND IS FORECAST UP TO THE TIME OF FINAL LANDFALL.

DOLLY IS STILL MOVING RATHER QUICKLY...300/16...TO THE SOUTH OF A MID-LEVEL RIDGE OVER THE SOUTHEASTERN UNITED STATES. ALL OF THE DYNAMICAL MODELS FORECAST THIS RIDGE TO GRADUALLY WEAKEN DURING THE NEXT FEW DAYS...RESULTING IN TRACK GUIDANCE SHOWING A SIGNIFICANT SLOWING OF THE FORWARD MOTION AS THE CYCLONE PROCEEDS INTO THE WESTERN GULF. MOST OF THE GUIDANCE HAS SHIFTED A LITTLE NORTHWARD OVER THE WESTERN GULF...AND SO HAS THE OFFICIAL FORECAST...WHICH REMAINS DOWN THE MIDDLE OF THE GUIDANCE ENVELOPE. THERE ARE VERY RELIABLE MODELS ON BOTH SIDES OF THE OFFICIAL TRACK...SO IT IS IMPORTANT NOT TO FOCUS ON THE EXACT LOCATION OF LANDFALL IMPLIED BY THE OFFICIAL TRACK.

THE NEW FORECAST REQUIRES THE ISSUANCE OF HURRICANE AND TROPICAL

STORM WATCHES FOR THE COAST OF THE WESTERN GULF OF MEXICO.

FORECAST POSITIONS AND MAX WINDS

INITIAL	21/1500Z	22.1N	89.5W	45 KT
12HR VT	22/0000Z	23.0N	91.6W	55 KT
24HR VT	22/1200Z	24.2N	93.8W	60 KT
36HR VT	23/0000Z	25.1N	95.2W	70 KT
48HR VT	23/1200Z	25.9N	96.4W	80 KT
72HR VT	24/1200Z	26.5N	98.5W	50 KT...INLAND
96HR VT	25/1200Z	27.0N	100.5W	30 KT...INLAND
120HR VT	26/1200Z...DISSIPATED			

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nhcwebmaster@noaa.gov
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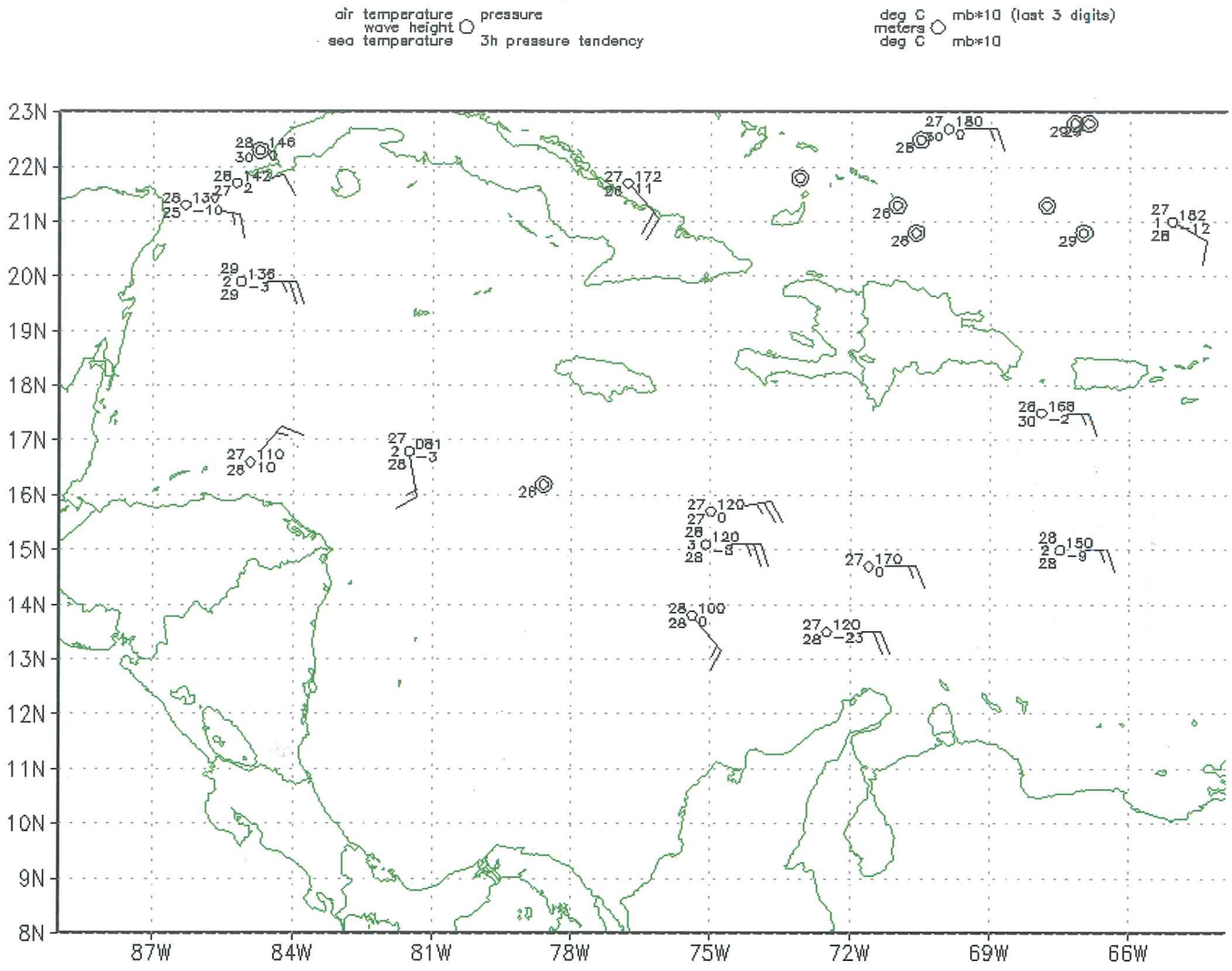

Offshore Surface Plot at 06Z / JUL 20, 2008

STORM WATCHES FOR THE COAST OF THE WESTERN GULF OF MEXICO.

FORECAST POSITIONS AND MAX WINDS

INITIAL	21/1500Z	22.1N	89.5W	45 KT
12HR VT	22/0000Z	23.0N	91.6W	55 KT
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72HR VT	24/1200Z	26.5N	98.5W	50 KT...INLAND
96HR VT	25/1200Z	27.0N	100.5W	30 KT...INLAND
120HR VT	26/1200Z...DISSIPATED			

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Miami, Florida 33165-2149 USA
nhcwebmaster@noaa.gov
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1. 5 m/s.

Flight ID: H080721

Take off time:
~~09~~ 08:57 Z

PRF1 = PRF2 = 2100 Hz

Start recording
lat

Mission IP 0904A Dolly

LF stopped @ 9:51
Restarted @ 9:55:42.

cells @ ~40 dBZ @ 1007, lat: 24° 1'N, long: 80° 10'W
~LF

Descent to 1500 ft @ 1014 Z

~~8855~~
~~12~~ 12:56 → Track. Leg start. 23T° track
1258 → 24T° Track
1301 25T

Fix: 22° 04',
-89° 10' @ 1310 Z

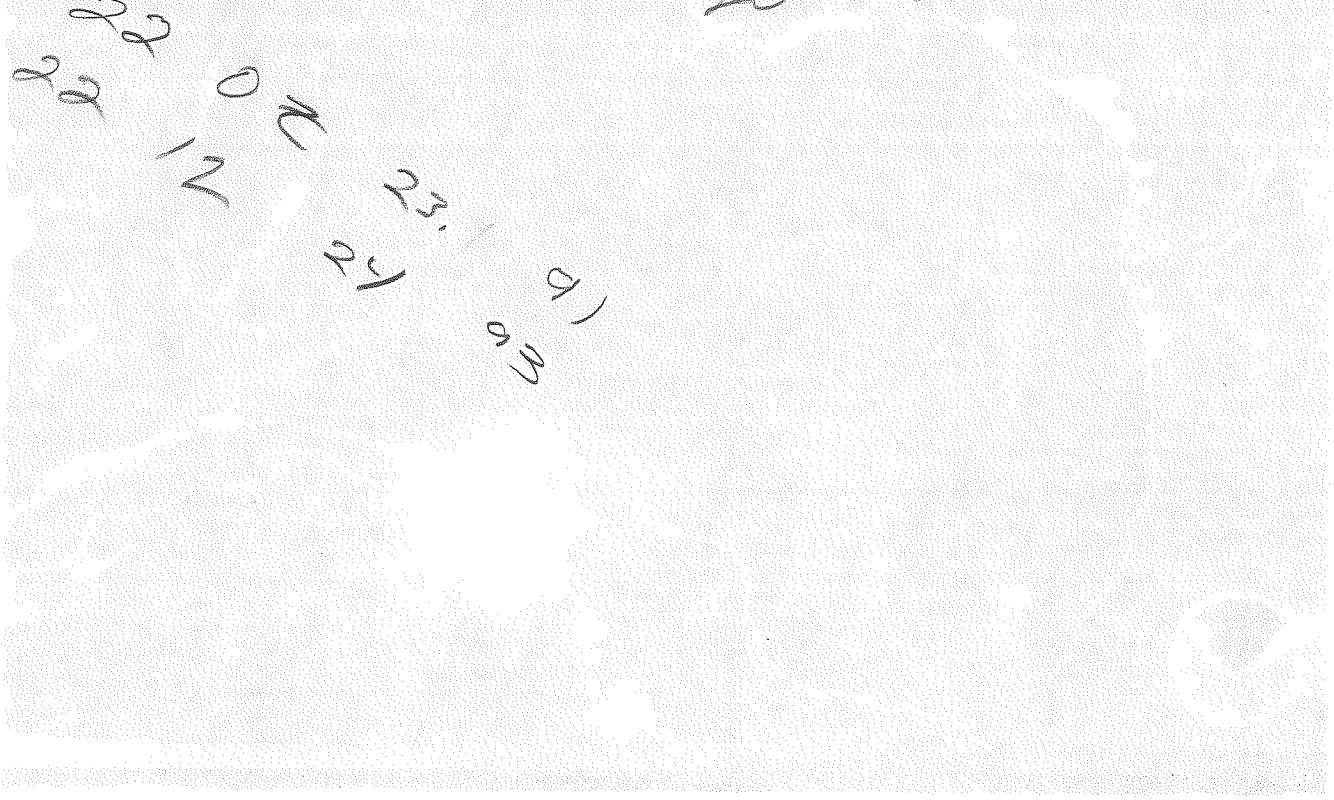
LF stopped 13:15
Restarted 13:16

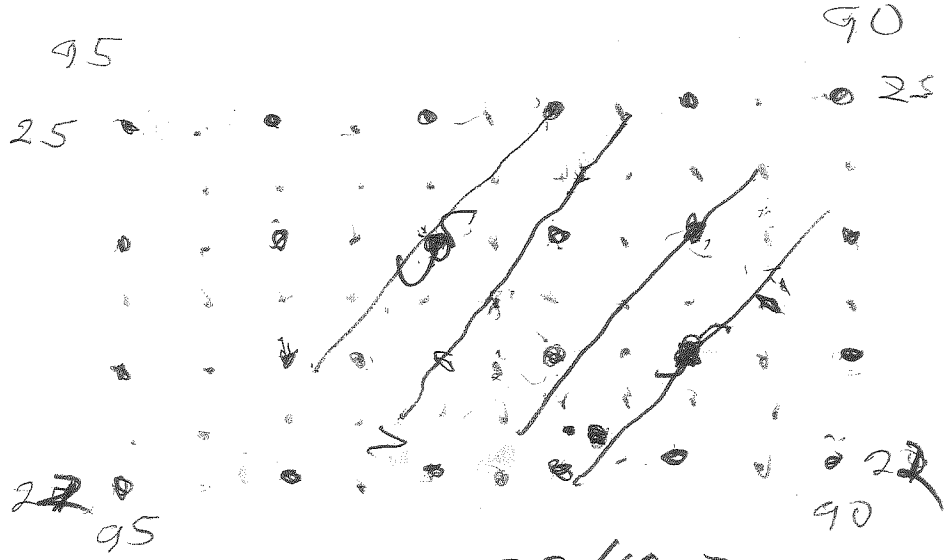
Landing Time 17:28

JATB125@yahoo.com

Tropical Atlantic
.com

21	18	22.6	89.6
22	06	23.6	92.5
23	06	25.0	95





22/00z

1	22.5	91.5
2	23	91.0
3	23.75	90.5
4	24	91
5	23.5	91.5
6	23.75	92

22/12z

7	22.75	93.25
8	23.5	92.5
9	24.0	91.0
10	25.0	92.0
11	24.0	93.0
12	23.0	93.75