

080720H
AL94

E.2 Lead Project Scientist (On-Board)

E.2.1 Preflight

- MB 1. Participate in general mission briefing.
- MB 2. Determine specific mission and flight requirements for assigned aircraft.
- MB 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.
- MB 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- MB 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.
- MB 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

- 2 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.

On-Board Lead Project Scientist Check List

Date 7/20/08 Aircraft 42 Flight ID 080720H

A. Participants

HRD

OAD

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>J. Gamache</u>	Flight Director	<u>Barry Damiano</u>
Cloud Physics	<u>—</u>	Pilots	<u>Barry Choy, AL Caramante</u>
Radar	<u>J. Gamache</u>	Navigator	<u>Joe Bishop</u>
Doppler	<u>J. Gamache</u>	Sys. Engr.	<u>Greg Bast</u>
Photographer	<u>—</u>	Data Tech.	<u>Bobby Peek</u>
Omegasonde	<u>M. Black Silverado</u>	El. Tech.	<u>Bill Olney</u>
AXBT/AXCP	<u>—</u>	Other	<u>Elmer W. Kern</u>
	<u>NESD 18 Manus, Chu</u>		<u>Steve Wade, Boston</u>
Take-Off	Location	Landing	Location
<u>0819</u>	<u>Madill</u>		<u>Chuck New</u>

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
<u>20/12</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>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

C. Mission Briefing

Genesis Z17 Zag DeHern
at 1400 ft - truncated due to Rix responsibility
for WAC at 12Z → 1500 ft.

~~CSAAT~~ INQUEST

Form E-2
Page 2 of 5

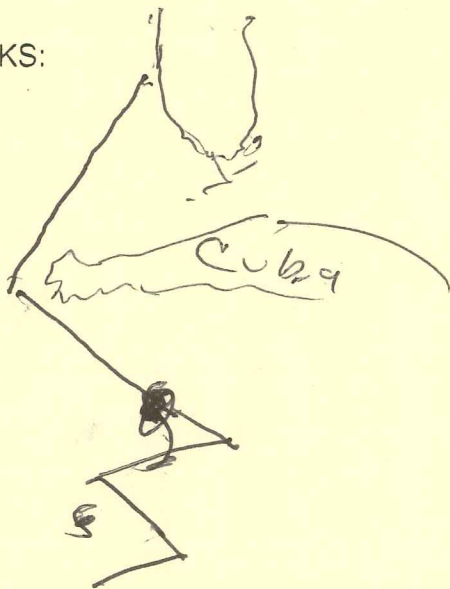
175

83

D. Equipment Status

<u>Equipment</u>	<u>Pre-Flight</u>	<u>In-Flight</u>	<u>Post-Flight</u>
Aircraft	✓	✓	✓
Radar	✓	✓	✓
Cloud physics	—	—	—
Data system	✓ 1/2 of graphics	—	—
Omegasondes	✓	✓	✓
AXBT/AXCP	—	—	—
Doppler	✓	✓	✓
Photography	? no	—	—

REMARKS:



Lead Project Scientist Event Log

Date 7/20/08

Flight 080720H1

LPS J. Gammache / M. B. Bette

Time	Event	Position	Comments
0819	Takeoff	MacDill	20 minutes late
0957	Turn to ESE - Ferry	21.8° 85.8°	- 600mb
1031	Sonde #1	21.1° 83.5°	- 600mb
1114	Sonde #2	20.5° 80.5°	- 600mb
1117	1st	17.53° 83.30°	Center 1500 ft
113520		19.8° 82.01°	Sonde #3 - 600mb
1153		19.3° 83.4°	17.58° 83.50° Sonde #4 Center
1235	Descend to 1500 ft		
1220 1500	Climb from 1500 ft		apparent center 17.8° - 83.6°
1242	South point	18.8° 83.3°	16.8° 83.3°
1316	E of Center		18.2° 81.8°
1347	near Center		17.8° 83.6°
1410	west of center		18.0° 85.0°
1425 1443	sw. of center	17.1° 84.0°	17.98° 83.83°
1458	north of center		18.7° 83.2°
1500	Climb back to 600mb		NE of Ctr
1509	Sonde #5	19.3°	83.7°
1523	Sonde #6	20.1°	84.36°
1536	Sonde #7	20.9°	85.07°
1723	Landing	MacDill	

Pt#2 20°28' 80°30' 128° 19 m/s Turn SW

Drop between Pt#2
& #3

113520 19°50' 82°2' 130 17 m/s 3.1°C 1.5°C
in thin cloud south of strong fair band.

1137 radar reset due to LP not updating.

Pt#3 1154 19°18' 83°28' 2.6°C 3.2 DPT.

Begin invert pattern at 1580 ft.

1827' 83°19' trading South to center 1826' 83°19'

6? 17°53' 83°32' 1008

1238Z turn to NE 1642' 83°33'

1317 turning west to center 1810' 81°47'

1750' 83°1' 1353Z 1009

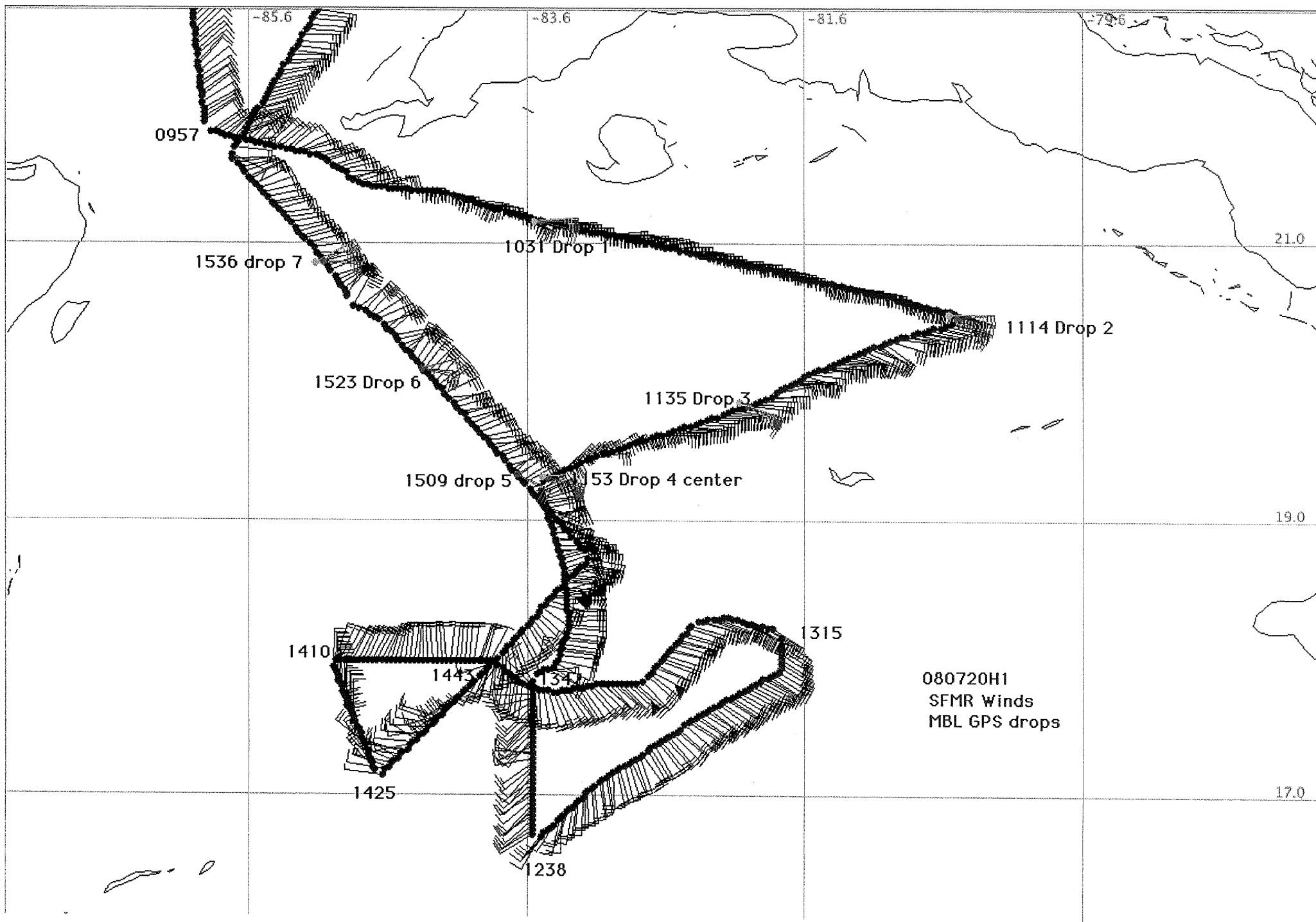
1410 1758' 85°0'

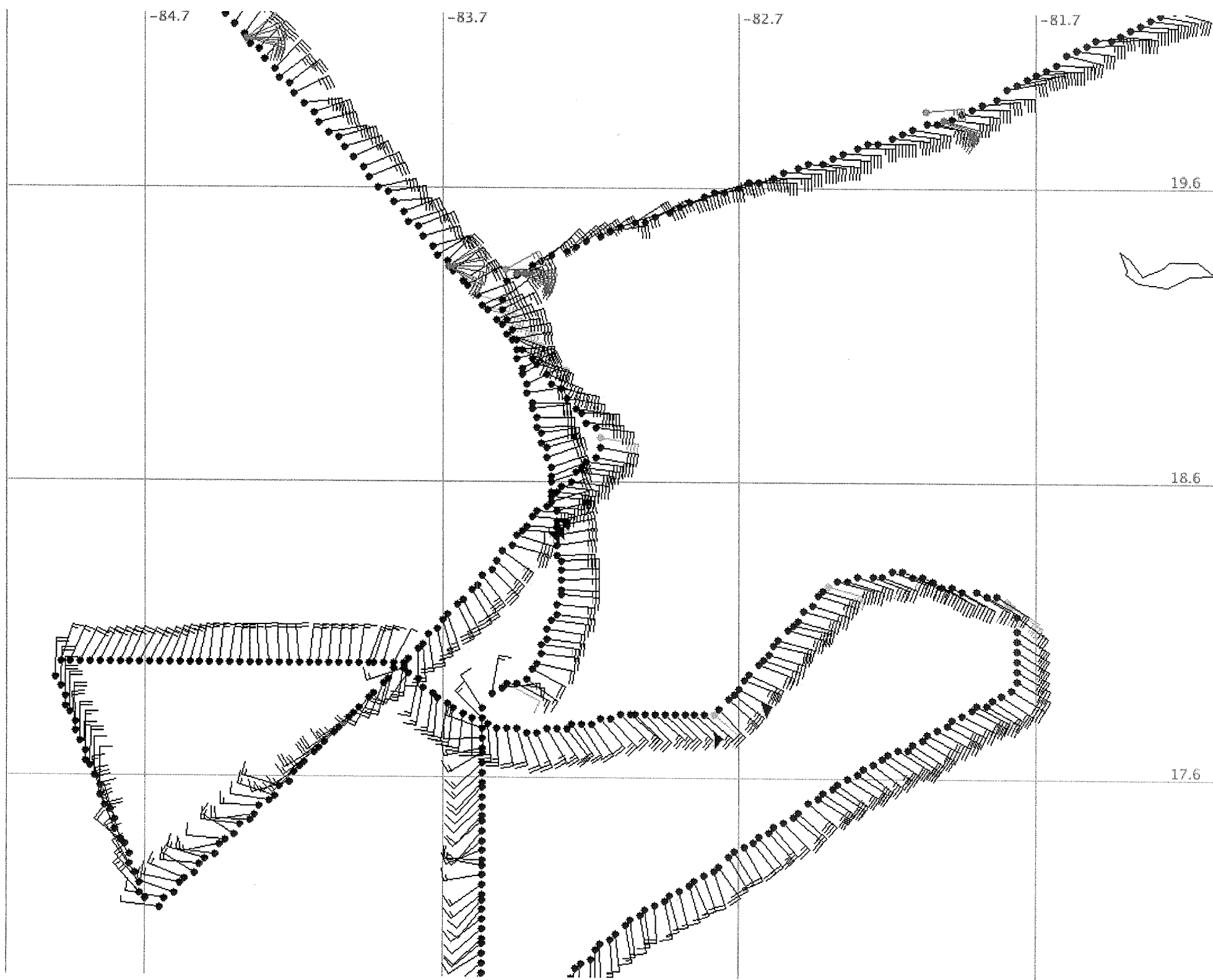
1320

1410

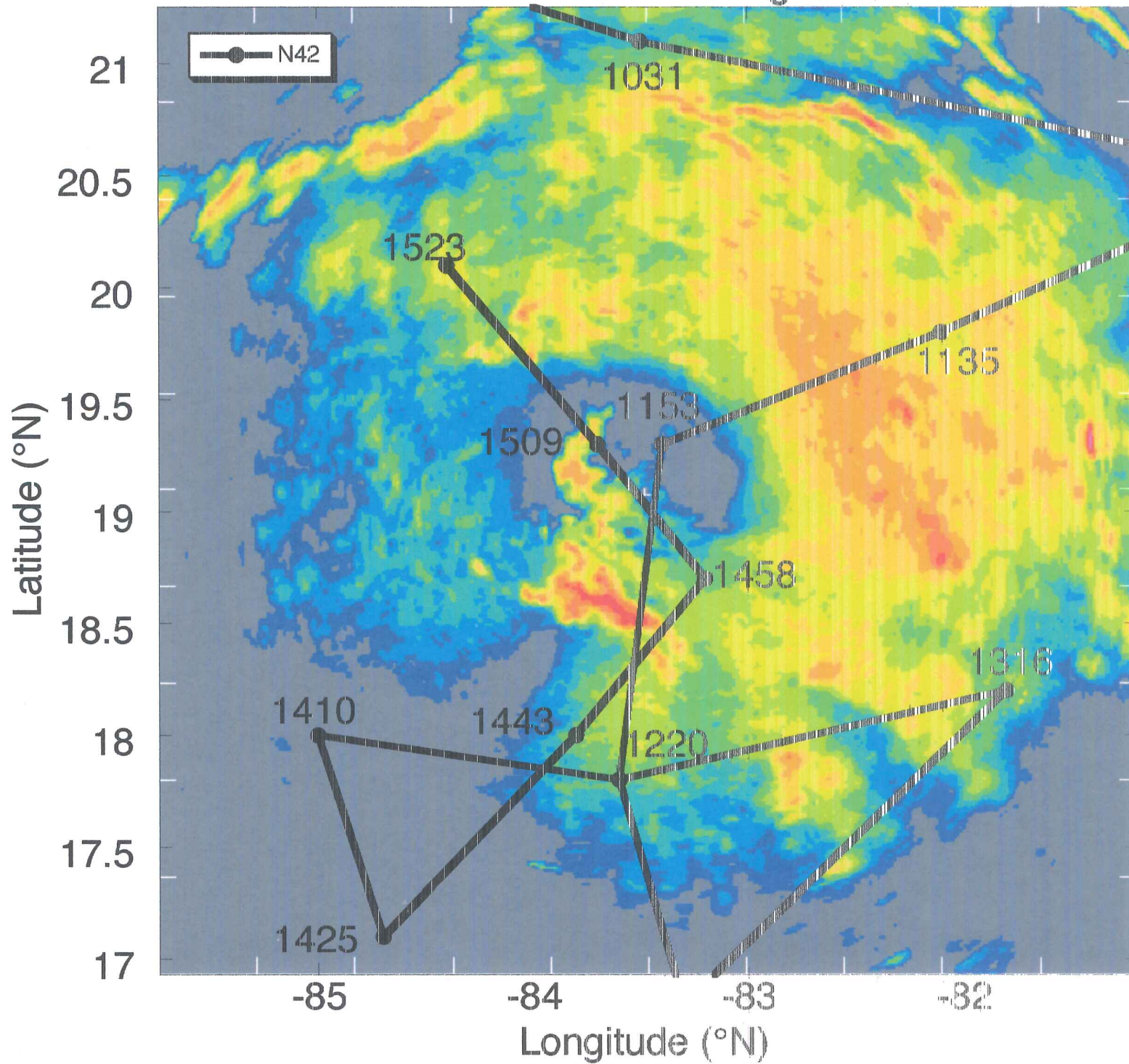
080720H FD Log

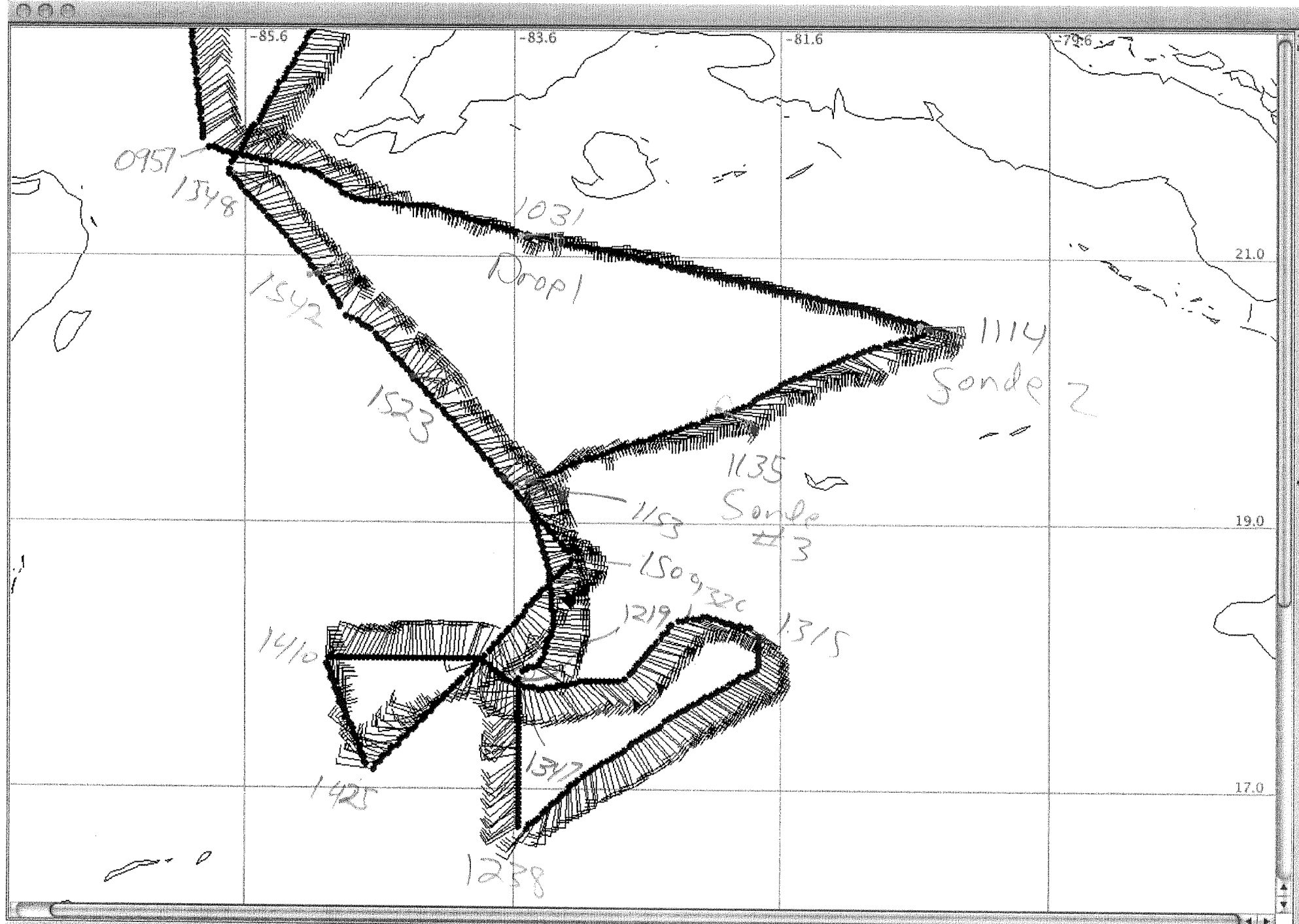
080720H Time Comments	LAT	LON	PS	TA	TD	TK	RA	WD	WS	WZ	SFMR
081847	27.50.94	-82.31.32	1018.2	25.3	23.6	220.4	1.9	49.5	3.4	0.0	t/o
084515	26.28.74	-83.43.08	597.7	1.8	-7.4	223.1	4475.1	83.4	9.0	1.3	clr
091041	25. 0.78	-85.12.30	597.3	1.8	-16.7	219.1	4502.5	68.7	9.9	0.0	clr
092739	23.59.82	-86. 9.06	597.3	2.2	-35.3	174.7	4485.0	80.1	12.5	0.0	clr/lgt
turb											
094656	22.33.30	-85.59.52	596.7	2.2	-29.6	173.5	4488.3	69.7	16.1	5.2	clr
095727	21.48.84	-85.50.34	594.4	-.1	-1.7	111.7	4506.4	79.5	11.3	10.1	pt 1 turn
to ese											
102616	21.15.66	-83.50.58	594.6	1.8	-.4	108.2	4496.4	121.6	10.2	10.7	in/out cld
lgt turb											
103059	21. 9.84	-83.30.48	594.5	2.0	-.7	105.9	4505.1	114.6	11.3	13.7	
103109	21. 9.66	-83.29.76	594.5	2.2	-.7	105.5	4510.1	116.8	11.1	14.1	drop 1
105427	20.48.24	-81.49.62	594.5	2.1	-3.2	103.2	4504.5	120.5	15.5	11.7	in/out
clds recco											
111443	20.28.02	-80.29.94	594.9	.7	.1	188.2	4513.3	129.1	18.8	12.1	drop 2
113520	19.49.68	-82. 0.90	594.7	1.3	2.2	249.7	4484.7	127.5	19.5	17.0	drop 3 in
cld											
115332	19.18.42	-83.26.76	594.6	2.7	2.9	245.4	4496.9	84.4	12.0	13.3	drop 4
124248	16.49.56	-83.22.38	959.1	23.8	21.5	44.9	461.2	222.8	3.0	6.8	tracking
ne											
130017	17.30.06	-82.28.74	958.3	23.4	22.9	54.0	471.8	163.2	17.7	17.0	lgt turb
141510	17.42.54	-84.54.72	958.7	23.3	22.2	159.8	471.8	21.2	7.8	8.8	tkng 160
to sw of cntr											
145830	18.42.78	-83.10.14	957.4	23.1	22.0	33.3	489.0	126.2	21.2	21.0	end ne leg
150941	19.19.50	-83.40.32	593.3	2.2	3.5	321.0	4530.5	63.6	7.0	18.7	drop 5
152239	20. 5.94	-84.21.42	593.6	2.0	2.0	321.9	4534.3	65.2	10.8	17.4	drop 6 clr
blw											
153606	20.52.32	-85. 4.02	594.9	2.1	1.3	325.5	4517.1	98.8	8.2	12.5	drop 7
some clds blw											
155746	22.16.50	-85.21.30	526.0	-2.1	-21.7	28.7	5515.7	107.8	11.6	10.9	btn cld
165305	26.30.24	-83.12.06	484.4	-6.8	-22.3	24.0	6203.3	127.2	4.7	8.4	clr
172257	27.51.60	-82.30.66	1019.5	31.5	21.6	220.5	9.1	111.5	.3	12.0	land





LF RADAR- NOAA 42 Flight Track





Maximum Wind 59.07 kt at 18.433, -83.433; 14:52z (SFMR42)

mblack [hrd] logged in.

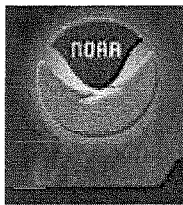
Logout

LOCATION: 18.764 lat, -84.165 lon

Track: Begin Center End

☐ Auto Pilot for

Check New Data Now



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ZCZC MIATCDAT4 ALL

TTAA00 KNHC DDHMM

TROPICAL STORM DOLLY SPECIAL DISCUSSION NUMBER 1

NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL042008

1145 AM EDT SUN JUL 20 2008

WE HAVE BEEN CLOSELY MONITORING THE STRONG TROPICAL WAVE AS IT HAS
CROSSED THE CARIBBEAN SEA DURING THE PAST FEW DAYS...WITH SEVERAL
AIRCRAFT RECONNAISSANCE MISSIONS SEARCHING FOR A WELL-DEFINED
CLOSED SURFACE CIRCULATION. NOT UNTIL THIS MORNING DID THE
AIRCRAFT DETECT SUCH A CIRCULATION. THE SYSTEM IS PRODUCING MORE
THAN ENOUGH DEEP CONVECTION REQUISITE OF A TROPICAL CYCLONE...SO
ADVISORIES ARE BEING INITIATED. THIS SYSTEM HAS BEEN PRODUCING
WINDS OF 35-40 KT FOR THE PAST 24 HOURS OR SO...AND THIS MORNING
THE SFMR ON THE AIRCRAFT REPORTED WINDS AS STRONG AS 42 KT...ALONG
WITH WINDS OF 50 KT AT FLIGHT LEVEL. IN ADDITION...NOAA BUOY
42057...SITUATED SOUTHEAST OF THE CIRCULATION CENTER...MEASURED
SUSTAINED WINDS OF TROPICAL STORM FORCE FOR ABOUT FOUR HOURS THIS
MORNING...AS STRONG AS 39 KT. BASED ON THE ABOVE DATA...THE
CYCLONE IS IMMEDIATELY DESIGNATED A TROPICAL STORM WITH MAXIMUM
WINDS OF 40 KT. THIS IS CURRENTLY A SPRAWLING SYSTEM WITH 34-KT
WINDS AND HEAVY RAINS EXTENDING WELL AWAY FROM THE CENTER...ALTHOUGH
VERY RECENTLY CONVECTION HAS BEGUN TO CONSOLIDATE OVER THE
CIRCULATION CENTER.

THE INITIAL MOTION ESTIMATE IS 305/15...WITH STEERING PROVIDED BY A
NARROW MID-LEVEL RIDGE ACROSS FLORIDA IN BETWEEN DOLLY AND
CRISTOBAL. THAT RIDGE IS FORECAST BY THE GLOBAL MODELS TO
GRADUALLY WEAKEN AS A MID-LATITUDE TROUGH DEEPENS OVER THE GREAT
LAKES REGION. AS A RESULT...THE FORWARD MOTION OF DOLLY IS LIKELY
TO BECOME SLOWER WHEN IT IS OVER THE GULF OF MEXICO. THE MODELS
ARE IN GOOD AGREEMENT ON THE TRACK OVER NORTHERN YUCATAN AND THE
SOUTH-CENTRAL GULF DURING THE NEXT COUPLE OF DAYS...BUT THEN THE
SPREAD IS GREATER ON DAYS 3-5...WITH SOME MODELS EVENTUALLY
FORECASTING DOLLY TO MOVE INTO NORTHERN MEXICO...WHILE OTHERS HEAD
INTO SOUTHERN TEXAS. THEY ALSO DISAGREE GREATLY ON HOW LONG IT
MIGHT TAKE FOR DOLLY TO MAKE FINAL LANDFALL. THE MOST PRUDENT
APPROACH FOR NOW IS FOR THE OFFICIAL FORECAST TO BE VERY CLOSE TO
THE MODEL CONSENSUS.

THERE ARE TWO INHIBITING FACTORS FOR STRENGTHENING IN THE SHORT
TERM...WITH THE OBVIOUS ONE BEING INTERACTION WITH THE LAND MASS OF
YUCATAN TONIGHT. ALSO...AN UPPER-LEVEL LOW IMMEDIATELY TO THE WEST
OF DOLLY IS IMPARTING SOME WIND SHEAR THAT IS PART OF THE REASON
FOR SUCH AN ASYMMETRIC CLOUD PATTERN. THAT LOW...HOWEVER...IS
HEADED SOUTHWESTWARD AND OUT OF THE WAY...AND WHEN DOLLY REACHES
THE GULF OF MEXICO IT IS LIKELY TO FIND ITSELF BENEATH A LARGE
UPPER-LEVEL ANTICYCLONE...SO CONDITIONS APPEAR CONDUCIVE FOR
STRENGTHENING OVER THE VERY WARM GULF WATERS. THE OFFICIAL
INTENSITY FORECAST IS CLOSE TO THE SHIPS MODEL SOLUTION OF A STRONG
TROPICAL STORM OVER THE WESTERN GULF...ALTHOUGH THE GFDL FORECAST
OF A HURRICANE IN THAT AREA IS CERTAINLY POSSIBLE.

FORECAST POSITIONS AND MAX WINDS

INITIAL 20/1545Z 18.4N 84.2W 40 KT

12HR VT	21/0000Z	19.7N	86.3W	45 KT
24HR VT	21/1200Z	21.1N	89.5W	40 KT...INLAND OVER YUCATAN
36HR VT	22/0000Z	22.2N	92.2W	45 KT...OVER GULF OF MEXICO
48HR VT	22/1200Z	23.0N	94.0W	50 KT
72HR VT	23/1200Z	24.5N	96.0W	55 KT
96HR VT	24/1200Z	26.0N	97.5W	60 KT...INLAND
120HR VT	25/1200Z	27.0N	100.0W	35 KT...INLAND

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FORECASTER KNABB

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Miami, Florida 33149-1095

Miami Seaquarium®
Education Department

Fax



To: Michael Black

From: Karen Jhavar- Education Supervisor

Fax: 305-361-4402

Pages: 2 Including cover

Phone:

Phone: (305) 361-5705 ext. 207

Re: Camp Receipt

Fax: (305) 365-2500

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