

Lead Project Scientist

Storm or Project

Flight ID

TS, Danny
0908 27-11

Experiment name

Mission ID

Monitoring
TS, Danny 2
WXOSA Danny 2

Preflight

1. Participate in general mission briefing.
2. Determine specific mission and flight requirements for assigned aircraft.
3. Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation. *NONE WXOSA Danny 2*
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.
6. 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.
7. Report status of aircraft, systems, necessary on-board supplies and crews to MGOC in Miami.
8. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
9. Make sure each HRD flight crew member has a life vest.
10. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset. *True at start of flight then Larry switched and?*

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. Gather completed forms for mission and turn in to data manager at HRD.
3. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
4. Obtain a copy of the radar DAT tapes. Turn in with completed forms.
5. Obtain a copy of serial flight data on thumb drive. Turn in with completed forms.

[Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

6. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
7. Determine next mission status, if any, and brief crews as necessary.
8. Notify MGOC as to where you can be contacted and arrange for any further coordination required.
9. Prepare written mission summary using Mission Summary form.

Takeoff 075450

Lead Project Scientist Check List

Storm or Project TS, Danny Experiment name Doppler Winds Long Jun Mission

Flight ID 09082TI1 Mission ID WX05A Danny 2

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>P. Leighton</u>	Flight Director	<u>Tan Sers / B. Dammus</u>
Radar/Workstation		Pilots	<u>B. Choy / C. Newman</u> <u>Grimmon</u>
	<u>P. Leighton</u>	Navigator	<u>Sloan / Kibler</u>
Cloud Physics	<u>N/A</u>	Systems Engineer	<u>Floyd / Darby</u>
Photographer/Observer	<u>N/A</u>	Data Technician	<u>B. Peck / T. Smith</u>
/Guests	<u>N/A</u>	Electronics Technician	<u>W. Olney</u>
Dropwindsonde	<u>Joe Zhang</u>	Other	
AXBT/AXCP	<u>Joe Zhang</u>		

B. Take-off and Landing Times and Locations:

Take-Off: 075450 UTC Location: Mac Dill AFB

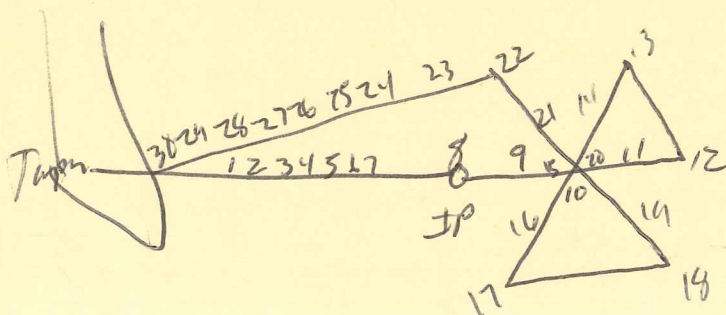
Landing: _____ UTC Location: _____

Number of Eye Penetrations: 3 planned

C. Past and Forecast Storm Locations:

	Date/Time	Latitude	Longitude	MSLP	Maximum Wind
	<u>09/08/21 07Z</u>	<u>27.06</u>	<u>72.02</u>		
est	<u>09/08/21 12Z</u>	<u>27.7</u>	<u>72.4</u>		
act	<u>09/08/21 12Z</u>	<u>27.15</u>	<u>72.38</u>		

D. Mission Briefing:



Storm or Project TS Denny

Experiment name

Doppler Winds
Key for MemphisFlight ID 090827IMission ID WXOSA Denny/2

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

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF	↑	↑	↑	2
Doppler Radar/TA	↑	↑	↑	
Cloud Physics	↑		↑	
Data System	↑	↑	↑	
GPS sondes	↑ 20/13	↑ 14	↑	14
AXBT/AXCP	↑ 20	↑ 20	↑	20
Ozone instrument	↑		↑	
Workstation	↑	↑	↑	
Cameras	↑	↑	↑	

REMARKS:

127 27.7 N 72.4 W

2702 N
70.6 W

Lead Project Scientist Event Log

Date 27 Aug 09 Flight ID 090827E1 LPS P. Legrum

0700 Z AF Center 27.06 72.02

Time	Event	Position	Comments
075450	Take off	McDill AFB	
080300	Start WS and Radar Reading		all WS pres ↑
080900	Restart Radar capture		
082130		27.16 80.56	West Palm Beach
083700	XBT Drop #1	26.84 79.56	Let XBT Drop
085300	shift in pattern	.5 degree North	
085400		26.81 78.14	
			skip 78° BT drop 1 shot
090800	BT #2	76.92 26.81	No temps
091830	Restart WS	76.03 26.87	Mouse Not Moving
091940	BT #3	76.00 26.87	28.25°
093100	BT #4	75.00 26.97	28.25°
094230	BT #5	74.00 27.01	28.25°
095440	BT #6	73.00 27.02	28.25° 2 shot dropped 1/2000
10:06:18	TP Combo	72.00 27.02	28
10:00:00			12000 ft
		2721 7	
103100	Combo	71.88 27.21	271284 71.53 70
104620	Combo		
1056	Combo	27.22 69.97	
1102		27.3 69.16	turn A 3/5
112900		28.55 71.	turn A 222
114320	Combo	27.62 71.61	
115520	BT Combo	27.15 72.38	27.8 Combo #2
120655	Combo	26.44 72.61	28.2
121929	Combo drop	25.68 72.71	limits 90
124720	drop side	26.97 71.90	

27.4 N 72.1 W



25.43 N 73.53 W
28.43 N 72.53 W
at 5

0700 Z
2706
72.02

at

7

0

after

Lead Project Scientist Event Log

Date 090827 Flight ID 090827IT LPS P. Leigh

[illegible]

From Eric Uhlhorn <eric.uhlhorn@gmail.com>

Sent Wednesday, August 26, 2009 10:35 pm

To John.Gamache@noaa.gov

Cc A Barry Damiano <A.Barry.Damiano@noaa.gov> , Eric.Uhlhorn@noaa.gov ,
Robert.Rogers@noaa.gov , Jason.Dunion@noaa.gov , tshinson@gmail.com , James McFadden
<Jim.D.Mcfadden@noaa.gov> , Barry.Choy@noaa.gov

Subject Re: Flight track for 090827I1 on Thursday morning

Barry,

AXBT locations are as follows.

Along inbound leg to IP:

1 79W
2 78W
3 77W
4 76W
5 75W
6 74W
7 73W
8 72W/IP/pt#1

9 Center

10 pt#2 (turn)
11 pt#3 (turn)
12 pt#4 (turn)
13 pt#5 (turn)
14 FP/pt#6 (turn)

Along outbound leg from FP:

15 73W
16 74W
17 75W
18 76W
19 77W
20 78W

Delete #s 19 and 20 if they aren't available. Don't worry about re-deploying for a bad drop.

Thanks!

eric

On Wed, Aug 26, 2009 at 10:17 PM, <John.Gamache@noaa.gov> wrote:

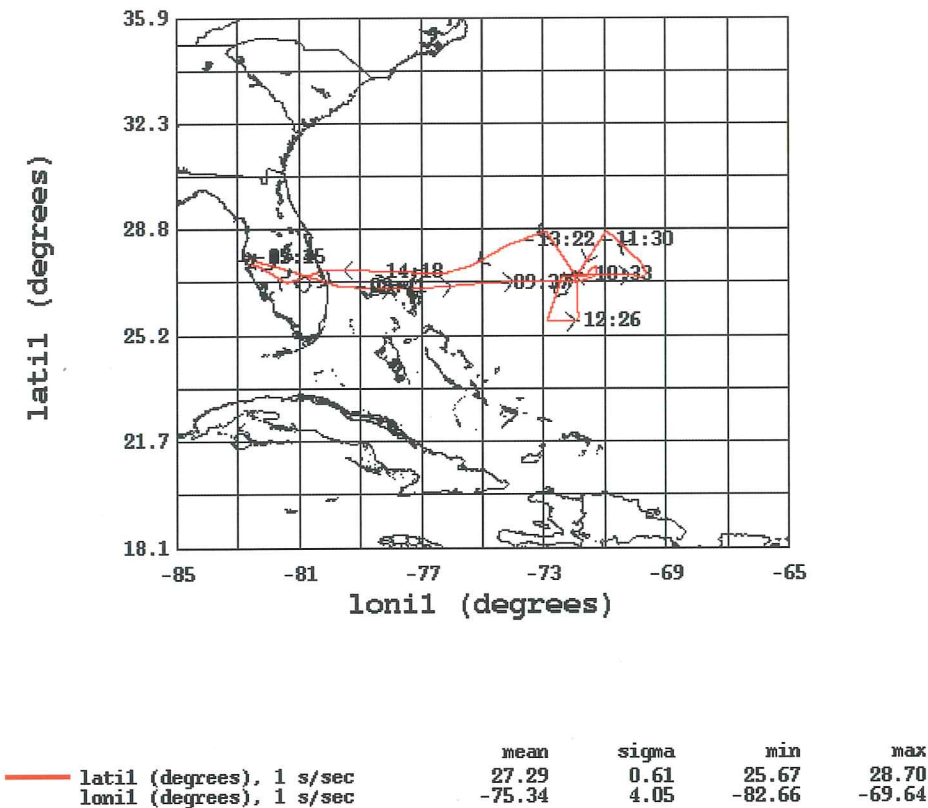
Hi Barry,

Here is the flight track proposed for this morning's flight. We are expecting the center to be NE of the

presently accepted one. We used a center of 26.5, 70.1 at the IP of the flight. The flight would be at 12,000 ft, and would have drops at the midpoints of the legs, the ends of the legs, and 1 at the center, in the pass closest to 0000 UTC. This would be 13 drops.

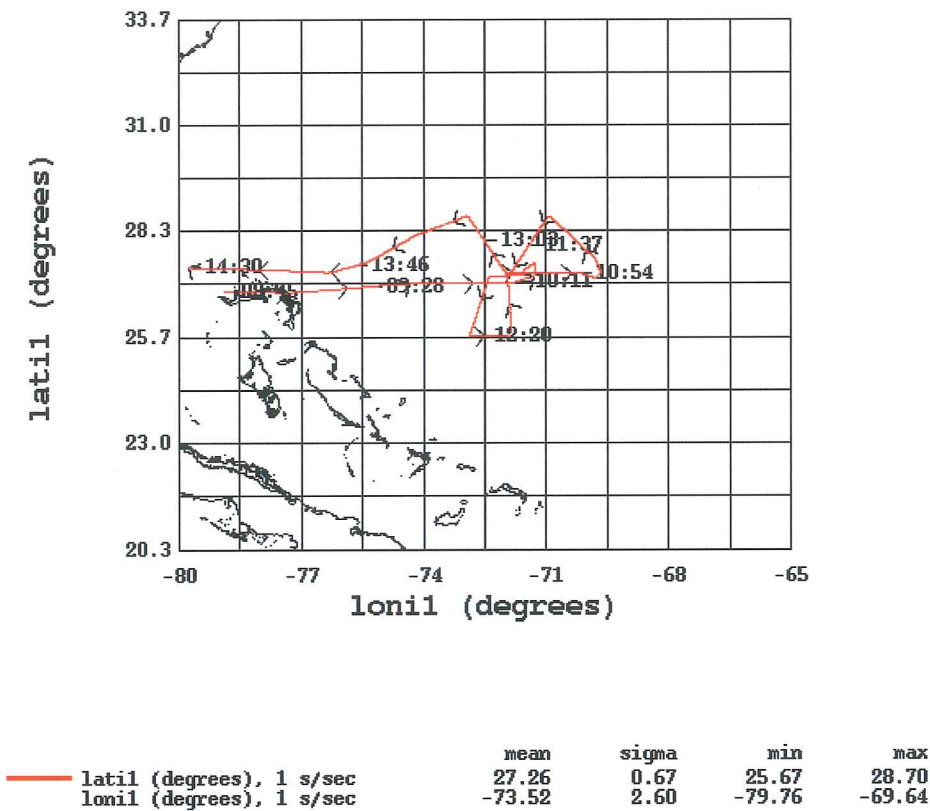
John

N43RF TS Danny 090827I1
08/27/2009 UTC, 07:45:00-15:15:00

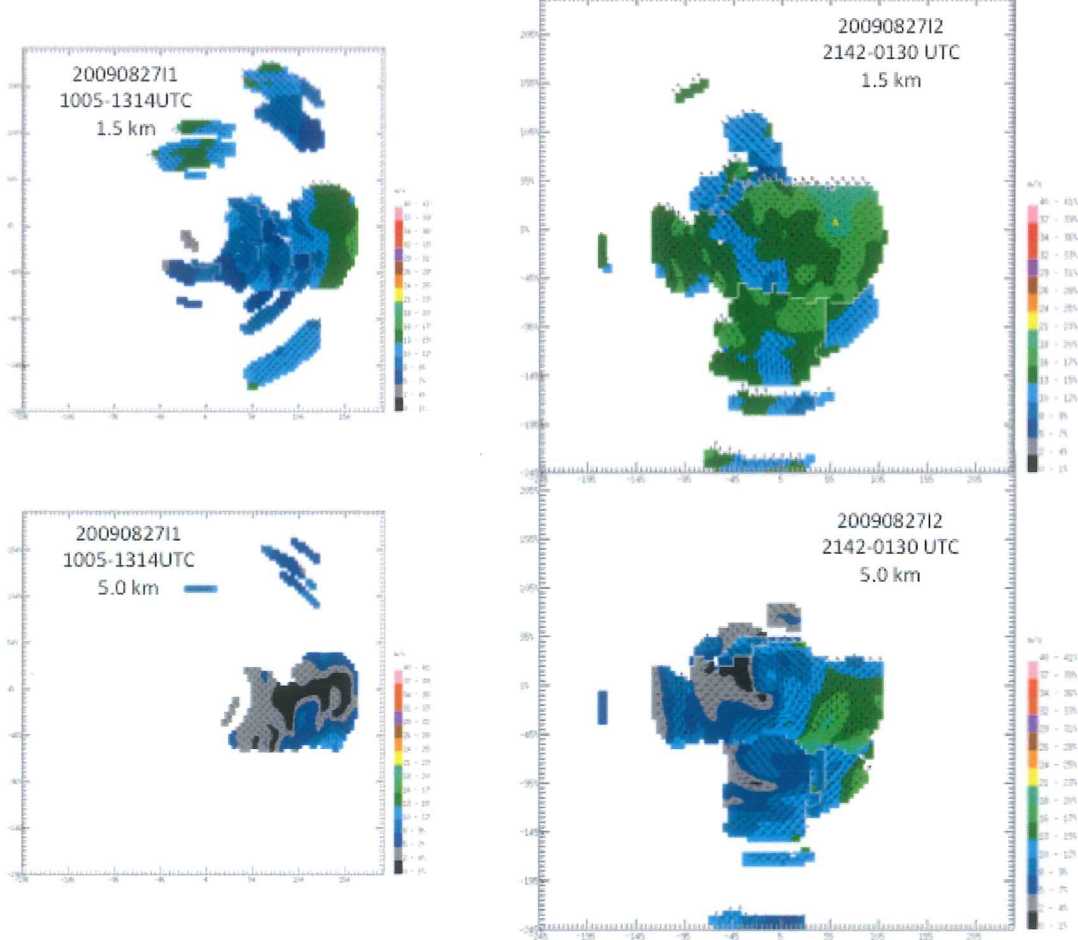


N43RF TS Danny 090827I1

08/27/2009 UTC, 08:45:00-14:30:00

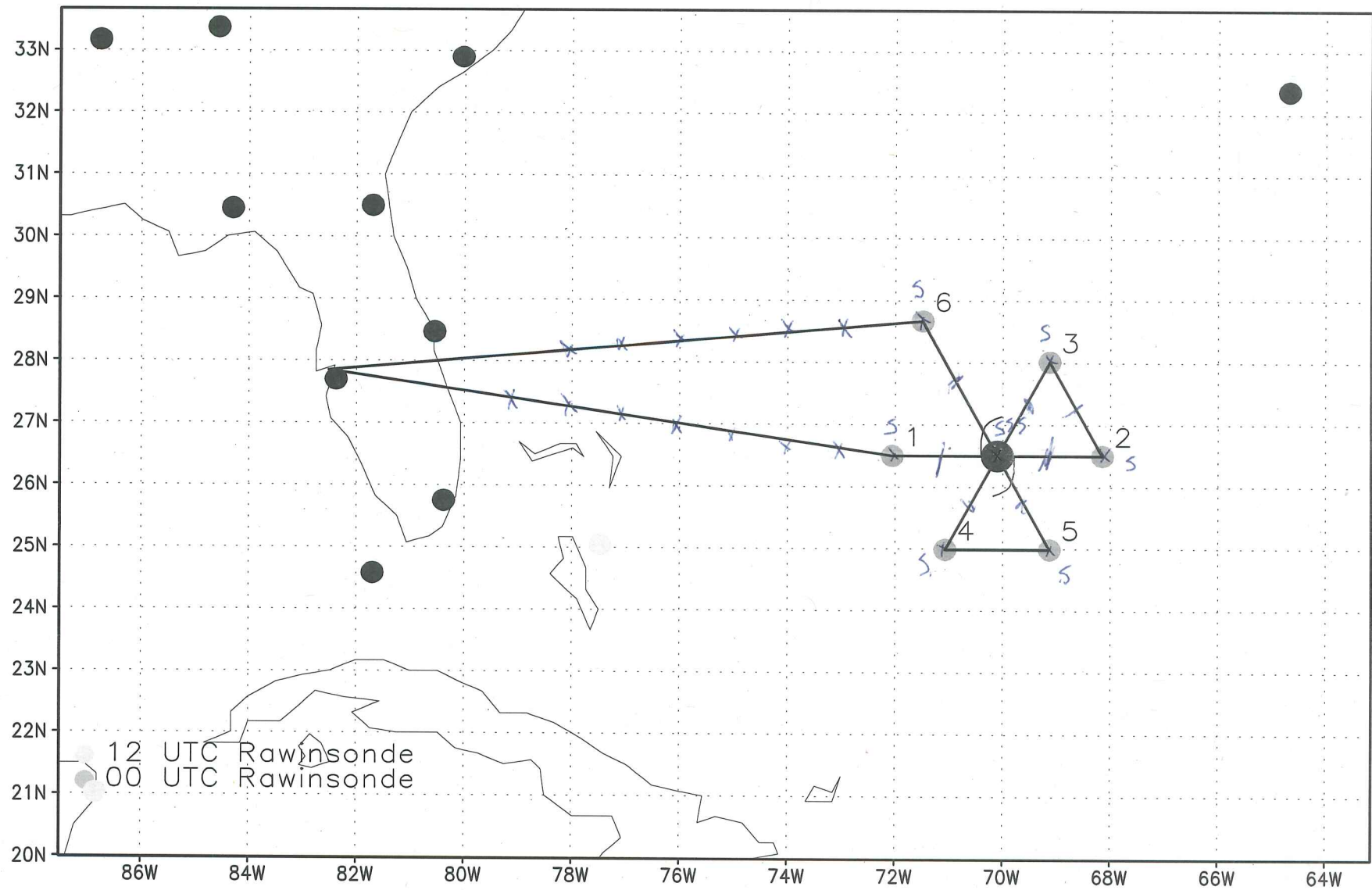


Hurricane Danny Doppler Radar Analyses 20090827



WXOSA DANNY2

090827I1



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MISSION PLAN: ANNY

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N43RF Altitude: FL120 Proposed takeoff: 27/08Z D

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TRACK DISTANCE TABLE

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1S	26 30	72 03	105/270	565.	565.	2:04
2S	26 30	68 09	105/090	210.	775.	2:55
3S	28 01	69 08	105/030	105.	881.	3:21
4S	24 59	71 04	105/210	210.	1090.	4:12
5S	24 59	69 08	105/150	106.	1196.	4:38
6S	28 40	71 29	150/330	255.	1451.	5:40
7	MACDILL			586.	2037.	7:39

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MISSION PLAN: ANNY

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