

Lead Project Scientist

Maintaining
TS, Danny 2

Storm or Project TS, Danny
Flight ID 0908 27-11

Experiment name TS, Danny 2
Mission ID WXOSA Danny 2

Preflight

[Handwritten initials: DJF, JWS, DJF, DJF, DJF, DJF, DJF]

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 the battery switched on?*

In-Flight

[Handwritten initials: DJF, DJF, DJF, DJF]

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

[Handwritten initials: DJF, DJF, DJF, DJF]

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.]

[Handwritten initials: DJF, DJF, DJF]

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

Doppler Winds

Storm or Project TS1 Danny Experiment name 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>Jan Serys / B. Dammann</u>
Radar/Workstation	<u>P. Leighton</u>	Pilots	<u>B. Choy / C. Newman</u> <u>Grimmett</u>
Cloud Physics	<u>N/A</u>	Navigator	<u>Sloan / Kidder</u>
Photographer/Observer /Guests	<u>N/A</u>	Systems Engineer	<u>Floyd / Darby</u>
Dropwindsonde	<u>Jun Zhang</u>	Data Technician	<u>B. Peck / T. Swartz</u>
AXBT/AXCP	<u>Jun Zhang</u>	Electronics Technician	<u>W. Oboney</u>
		Other	

B. Take-off and Landing Times and Locations:

Take-Off: 075450 UTC Location: MacDill AFB

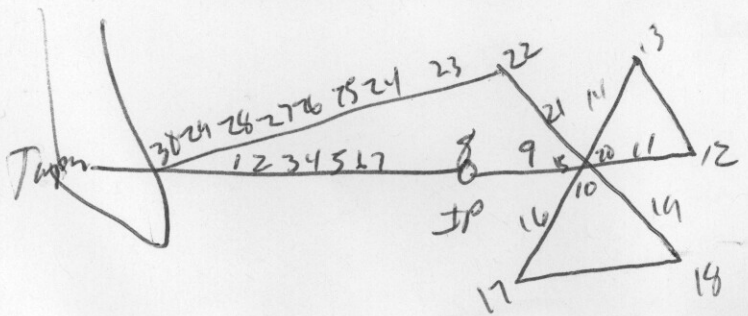
Landing: _____ UTC Location: _____

Number of Eye Penetrations: 3 planned

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<i>est</i> 09/08/27 07Z	27.06	72.02		
09/08/27 12Z	27.7	72.4		
<i>act</i> 09/08/27 12Z	27.15	72.38		

D. Mission Briefing:



Doppler Winds

Storm or Project TS Denny Experiment name Key from Memphis
 Flight ID 090827I Mission 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

27.0 N
70.0 W

Lead Project Scientist Event Log

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

0700 Z AF comb 27.06 72.02

0700 Z
2706
72.02

Time	Event	Position	Comments
075450	Take off	M. McDILL AFB	
080300	Start WS and BT Recor		all WS pres ↑
080900	Restart Reduc capture		
082130		27 16 80.56	West Palm Beach
083700	XBT Drop #1	26.84 79.56	Lat XBT Drop
085300	Start p. pattern	.5 degree North	
085400		26.81 78.14	
			skip 78° BT drop 75 hrs
090800	BT # 2	76.92 26.81	No temps
091830	Restart WS	76.03 26.87	More Not Masin
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	28.2 28.2 start descent 16/20
10:06:18	TP Combo	72.00 27.02	28
10:00:00			12000 ft
		27.21 7	
103100	Combo Sunde comb	71.88 27.21	27 1284 71 53 20
104620	Sunde		
1056	Combo	27.22 69.97	
1102		27.3 69.16	turn A 3/5
112500		28.55 71.	turn A 2/22
114320	Sunde	27.62 71.61	
115520	BT comb	27.15 72.38	27.8 Comb #2
120655	Sunde	26.44 72.61	28.2
121929	Combo drop	25.68 72.71	limits 90
124720	drop sunder	26.97 71.90	

27.4 N 72.1 W



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