http://129.71.98.161/NRL/nrl_images/latest.png
050922H

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).

NO WX18A Rita

Lead Project Scientist Check List

Storm or Project Rita **Experiment name** Ocean Winds
Date 9-22-05 **Aircraft** N42 **Flight ID** 050922H

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	M. Black Paul Chang	Flight Director	Tom Shepherd
Radar	M. Black	Pilots	Phil Kennedy Barry Cwoy
Workstation		Navigator	Pete Siegel
Cloud Physics	—	Systems Engineer	Steve Underwood
Photographer/Observer /Guests		Data Technician	Sean McMillan Bert
Dropwindsonde	M. Bell / M. Black	Electronics Technician	
AXBT/AXCP	M. Black	Other	Rob, Danny, +1

B. Take-off and Landing Times and Locations:

Take-Off: 1532 UTC Location: Mar Dell

Landing: _____ UTC Location: _____

Number of Eye Penetrations: 3

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
1182	25.5°	89.5°	907	150 kts?

D. Mission Briefing: 7kft pressure initially, then maybe 5kft radar. Figure-4 with IP ~125 east of eye. Then eyewall/rainband work for Paul Chang + RAINEX

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

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

REMARKS:

Lead Project Scientist Event Log

Date 9-22-05 **Flight** 050922H **LPS** M. Black

Time	Event	Position	Comments
1532		Takeoff	
1540	Problem w HRD workstation - no sonde window		
rev3 1748 -	25°34'	89°01'	
27.1°C 60 m MLD 170625	AXBT #1	outside outer eyewall	east side
1708	Approaching	E outer eyewall -	impressive
1711	Drop #1	outer eyewall	eastside - SFMR 40 m/s
1718	Drop #2	east eyewall	
	Drop #3	west outer eyewall	
		50 miles west	
1754	Heading north	50 mi S of eye	
1755 -	2 AXBT's	#3 failed	#4 28.5°C
1806	eye		
1818	~50 nmi	N of eye	
1820	AXBT #5	28.5°C	45m MLD
1909	AXBT #6	100 mile	W of eye 28.5°C
1919 -	4 sonde	sequence	WNW eyewall
2145	SW outer	eyewall	
2200	eye		
2209	BT E. SW	outer - failed	
2209	BT 27°C	— 56 m MLD	
2210	Climb	out for MacDill	

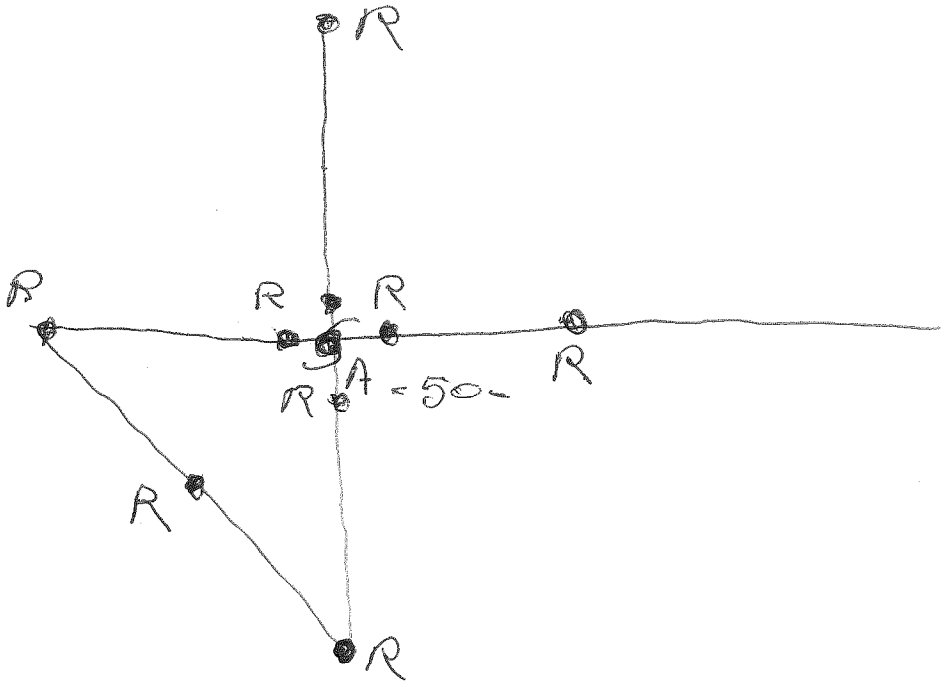
Lead Project Scientist Event Log

Date _____ **Flight** _____ **LPS** _____

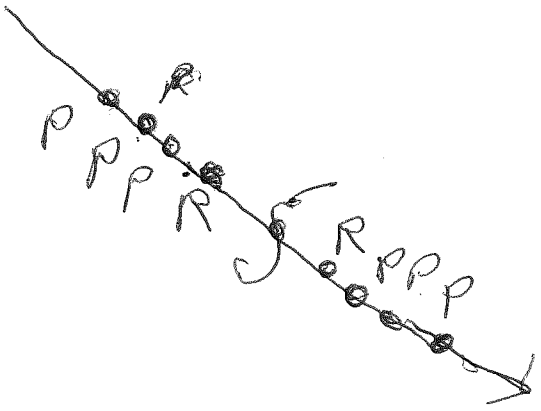
Eye Passes

Time	Event	Position	Comments
171750	Eye 25.5	88.9 E-W	pass 1707 - 1737

R - Rainet
A - Aoc center drop
P - Paul Chang



later →



AXBT's