

Lead Project Scientist

Storm or Project Richard Experiment name Air-Seq/Rapid
Flight ID 101023II Mission ID 100993

Preflight

- WX19A RICHARD
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.
 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.

NO But send HOBS + context
 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.

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.

Lead Project Scientist Check List

Storm or Project TS Richard Experiment name AirSea/Thermo Richard
 Flight ID 101023J1 Mission ID WX19A RICHARD2

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>M. Black</u>	Flight Director	<u>Barry Damiano</u>
Radar/Workstation	<u>Aperson/Tom</u>	Pilots	<u>Mark Nelson, Al Granata, Frank</u>
Cloud Physics		Navigator	
Photographer/Observer		Systems Engineer	<u>Greg Best</u>
/Guests		Data Technician	<u>Bill Mike</u>
Dropwindsonde	<u>Aperson/Tom</u>	Electronics Technician	<u>Olney</u>
AXBT/AXCP	<u>M. Black</u>	Other	

B. Take-off and Landing Times and Locations:

Take-Off: 0205 UTC Location: MacDill

Landing: 1010 UTC Location: MacDill

Number of Eye Penetrations: 3

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>23/0049</u>	<u>15° 45'</u>	<u>82° 12'</u>	<u>1008</u>	<u>40 kt</u>
<u>23/06Z</u>	<u>16.2</u>	<u>82.5</u>		<u>45</u>
<u>23/18Z</u>	<u>16.3</u>	<u>83.7</u>		<u>50</u>
<u>24/06Z</u>	<u>16.7</u>	<u>85.3</u>		<u>60</u>
<u>24/18Z</u>	<u>17.2</u>	<u>86.9</u>		<u>75</u>

AF
FCST {

D. Mission Briefing:



Storm or Project Richard Experiment name Air-Sea

Flight ID 101023I1 Mission ID WX19A RICHARD2

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				
Doppler Radar/TA				
Cloud Physics	CON ✓	✓	?	
Data System	✓	✓	✓	
GPS sondes	✓	✓	✓	
AXBT/AXCP	✓	✓	✓	
Ozone instrument				
Workstation	✓	✓	✓	
Cameras	✓	✓	✓	

REMARKS:

Radar froze up briefly
a few times

Lead Project Scientist Event Log

Date 10/23/00 Flight ID 101023J1 LPS M, B, Ledt
Richard Pg 1

Time	Event	Position	Comments
0420 Z	Descend to 12 Aft	18.37 85.54	
#1 042614	Sonde/AXBT	17.93 85.58	~150 nm WNW of station
#2 044016	Sonde/AXBT	16.89 85.66	28°C
#2A 044218	Sonde 2A Backup	16.85 85.53	28.2°C
#3 045102	Sonde/AXBT	16.68 84.90	26°C 60m 45m milt
#4 050241	Sonde/AXBT	16.44 84.06	Near NE Honduras coast 28.1°C
#5 051330	Sonde/AXBT	16.22 83.27	Tip of butterfly 28.2°C
#6 052348	Sonde/AXBT	16.16 82.50	ctr of W-ctr
			Center 45 west of forecast
#7 053324	Sonde/AXBT	16.1 81.8	supposed to be center
0543	Convective band - lightning	16.0 81.0	Grapel
#8 054346	16.05 81.0 - Sonde/AXBT		Descend to 11 Aft - grape
#9 055410	Sonde/AXBT	16.03 80.31	East point 26.5°C
#10 060347	Sonde/AXBT	Mid pt downward	16.7 80.69
#11 061302	Sonde/AXBT	17.26 81.07	NE point
#12 062430	Sonde/BT	16.55 81.48	Mid point
063920	Turn at 16.15 82.38		near center and near coast
	cont'd		and a ctr
065330	Descend the to 5 Aft		
#13 065509	Sonde/BT	15.8 81.6	

can't fly to ctr because
 no fuel

