

050705I

T.S. Dennis

Lead Project Scientist

Preflight

- MB 1. Participate in general mission briefing.
- MB 2. Determine specific mission and flight requirements for assigned aircraft. *no boat will give one*
- MB 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:
- Assure availability for mission.
 - Review field program safety checklist
 - Arrange ground transportation schedule when deployed.
 - 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). *- W/S Down*
- In-Flight* ✓ 7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
- Aaron* ✓ 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 from 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).

1000A3
WX04A DENNIS

Lead Project Scientist Check List

Storm or Project TS Dennis Experiment name IFEX/TCSP
Date 7/5/05 Aircraft Y3RF Flight ID 050705T

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>M. Black</u>	Flight Director	<u>T. Shepherd</u>
Radar	<u>P. Dodge</u>	Pilots	<u>Mark Nelson, Tebeest</u>
Workstation	<u>Down</u>	Navigator	<u>Devin Brakob</u>
Cloud Physics	<u>Paul Willis/Aeron</u>	Systems Engineer	<u>Dewie Floyd</u>
Photographer/Observer	<u>Ed Zipser</u>	Data Technician	<u>Willie</u>
/Guests	<u>Rob Rogers</u>	Electronics Technician	<u>Lynch</u>
Dropwindsonde	<u>Stacy</u>	Other	<u>Jim Berra</u>
AXBT/AXCP	<u>S</u>		

B. Take-off and Landing Times and Locations:

Take-Off: 1701 UTC Location: San Jose, CA

Landing: _____ UTC Location: _____

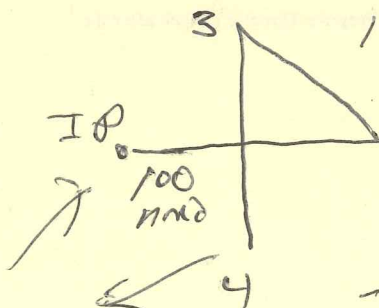
Number of Eye Penetrations: 2

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>7/5/21Z</u>	<u>13.8</u>	<u>67 W</u>	<u>?</u>	<u>?</u>

D. Mission Briefing:

Coordinated Figure 4 w/ ER2.
100 nm legs (150 nm for ER2)
F/AIF 12,000 ft RA
F/AIF Radar except downwind
2 leg - ER2 started
4 AXBTS - east and north of c/n
-20 sondes regularly spaced
3h 40min Perm



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

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
Radar/LF	UP	UP		
Doppler Radar/TA	UP	UP		
Cloud Physics	UP	UP		
Data System	UP	UP		
GPS sondes	UP	UP		
AXBT/AXCP	UP			
Ozone instrument	check NA	UP 1820		
Workstation	Down	Down	Down	
Videography	UP	UP		

REMARKS:

Lead Project Scientist Event Log

Date 7/5/05 Flight 050705I LPS M. Black

Time	Event	Position	Comments
1701	Takeoff	10N, 85W	San Jose
1820	Workstation Up - 2 quick bands		
2003	Descend slightly 20 miles to 10N		
2008	200 mi west, head east	14.6 71°49'	
200957	AXBT #1	14.0 71°42' W	
20010	Descend to 12,000 ft		
2025	In weak outer band		
203310	14.0 69.67	100 n mi west of ctr	27.2?
203920	13.99 69.18	75 mi west	
204420	13.96 68.87		
204910	Track to the left 20° to find radar ctr		
205712	Drop near band W of ctr		
210102	Drop in west east side		
210727	Drop #6	50 miles to ctr. east	
211409	Drop #7	75 miles east of ctr	
211705	Drop #8	295 miles east of ctr	
2122	In convergence band		
	mid point downwind leg		
214755	North point	15.81 68.09 / 100 n mi	
215449	75 miles north of ctr		
220451			
222142	Near ctr - no telemetry		
221603	SE of ctr ~ 20 miles		
222149	~50 miles south of ctr		
223031	~90 miles south of ctr		
2231	Final Pt	~90 miles south	

Landing 02Z

28.4°C

Drop #1
AXBT #2

Drop #2

Drop #3

Drop #4

Drop #5

Drop #6

Drop #7

Drop #8

Drop #9

Drop #10

Drop #11

Drop #12

Drop #13

Drop #14

Drop #15

Drop #16

Drop #17

Drop #18

Drop #19

Drop #20

Drop #21

Drop #22

Drop #23

See Electronic Version

Mission Summary

Storm name

YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)

Lead Project Scientist _____

Radar Scientist _____

Cloud Physics Scientist _____

Dropwindsonde Scientist _____

Boundary-Layer Scientist _____

Workstation Scientist _____

Observers _____

Mission Briefing: (include sketch of proposed flight track or page #)

Mission Synopsis: (include plot of actual flight track)

Evaluation: (did the experiment meet the proposed objectives?)

Problems: (list all problems)

Expendables used in mission:

GPS sondes : _____

AXBTs : _____

Sonobuoys: _____

050705 F

