E.2 Lead Project Scientist

E.2.1 Preflight

_____ 1. Participate in general mission briefing.

_____ 2. Determine specific mission and flight requirements for assigned aircraft.

_____ 3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist and CARCAH unless briefed otherwise by field program director.

_____ 4. Contact HRD members of crew to:

a. Assure availability for mission.
b. Arrange ground transportation schedule when deployed.
c. Determine equipment status.

_____ 5. Meet with AOC flight crew at least 90 minutes before takeoff, 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).

E.2.2 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 Form E-2.

E.2.3 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. Determine next mission status, if any, and brief crews as necessary.

_____ 6. Notify MGOC as to where you can be contacted and arrange for any further coordination required.

_____ 7. Prepare written mission summary using form E-2 p.3 (due to Field Program Director1 week after the flight).

Lead Project Scientist Check List

Date 10/03/02 **Aircraft** 43RF **Flight ID** 021003I

A. —Participants: Lili Landfall / CBLAST

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	R. Black	Flight Director	B. Damiano
Cloud Physics		Pilots	D. Tennesen, H. Halvosen, P. Reno
Radar	M. Black	Navigator	J. Adler
Workstation ~~E. Abercrombie~~ Scripps	J. Gamache	Systems Engineer	J. Smith
Photographer/Observer, Sonobuoy, laserAlt,	J. Hazard	Data Technician	R. Tong
Dropwindsonde	S. Aberson	Electronics Technician	D. Sna Souci
AXBT/~~AXCP/Guest~~	C. Cappella	Other	
SRA	E. Walsh		

Take-Off: 1302Z Location: MacDill Landing: _____ Location: _____

Number of Eye Penetrations: _____

B. —Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

C. —Mission Briefing:

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

Equipment	Pre-Flight	In-Flight	Post-Flight	# of DATs or Expendables
Aircraft	✓			
Radar/LF	✓			
Radar/TA (Doppler)	✓			
Cloud Physics	—			
Data System	✓			
Dropwindsondes	✓			
AXBT/AXCP				
Workstation				
Videography				

REMARKS:

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Lead Project Scientist Event Log

Date ________ **Flight** 020003R **LPS** R Black

Time	Event	Position	Comments
142000	at 6000 ft	1810m 2830 8846	
142738	GPS1	2833 8901	V_{FL}=52, V_{SF}=30 kt
142844	GPS2	2836 8925	
1430	strong conv. band	2838 8931	V_{FL}=65, V_{SF}=44
143400	GPS3, BT1	2839 8948	SST = 27.9
143900	GPS4	2843 9009	52, 50
144400	GPS5	2850 9031	62, 44
144900	GPS6	2857 9052	65, 50
145400	GPS7	2905 9114	61, 52 no winds
145900	GPS8	2913 9134	65,
150000	GPS9	2916 9141	64,
		2950 9216	AF radar center
150522	GPS10	2950 9158	82
150837	GPS11	2941 9206	79
151311	turn head S	2958 9220	P_{sfc} ≈ 965
151600	center	2952 9218	WS 20.0, now head S
153037	S pt, turn NE	2858 9222	
153155	GPS12	2900 9219	
153459	GPS13	2908 9206	
153758	GPS14	2919 9154	58, 82 LF radar down
154134	GPS15	2931 9139	71, 60 ← no winds
154404	GPS16	2938 9146	78, 52 in bay Vermilion
154545	GPS17	2940 9153	76, no winds
	go around		
155816	GPS18	2938 9146	76, 64 winds good
155930	GPS19	2941 9152	78, 64 no winds
160404	GPS20	2933 9203	62,

2900 9150

2906 9146
2952 9218
N to center ~

3020 9215
3020 9240 pt 2
2930 9130

25 mi legs: up-downwind + crosswind

Form E-2

Lead Project Scientist Event Log

Date ______ Flight 021003I LPS R. BLACK

Time	Event	Position	Comments
162310	descend to	900 ft 285	9213
162430	eld base	~ 800 ft	WS ≈ 58 kt
163[illegible]		2910 9140	chg hdg 050 → 080
163430	2926 9133	reverse course	3 kt 900 ft
		very hazy - vis ~ 200 yds	
		trk 212	WD 206 WS 58
~~164430~~	~~2903~~	waves 10 ft	
164430	2903 9145	reverse course and descend to 600 ft	
164620	hdg 030	600 ft	50 kt - lt rain
165748	2930 9130	water depth ~ 20 m	
170230	2903 or 9147	turn + climb to 2,000 ft	
	no fly lower because of oil rigs + rig antenna's that extend		
	to 200-300 ft		
~~172210~~			
172220	end 2000 ft	2906 9146	descend to 600 ft
			fly crosswind to SE
172350	trk 120		
172415	start leg	eld base 800 ft	WD 220 WS 40 kt SR 40 kt
173212		2854 9117	turn head NW
174028	end leg, climb	2909 9146	climb to 14000 ft
180614			VMAX north = 65 kt
180644	center	3031 9227	
181200	Turn 90° on west side, then SE		