

E.2 Lead Project Scientist (On-Board)

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 or FGOC at remote recovery location).

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 Postflight

- _____ 1. Debrief scientific crew.
- _____ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).
- _____ 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 the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.
- _____ 7. Prepare written mission summary.

On-Board Lead Project Scientist Check List

Date 9/23/02 Aircraft N43RI Flight ID 020923I

A. Participants: Post-Isidore

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>A. Black</u>	Flight Director	<u>B. Damiano</u>
Cloud Physics	<u>E. Zipser</u>	Pilots	<u>D. Tenessen, H. Halvorsen, M. Silah</u>
Radar	<u>E. Zipser</u>	Navigator	<u>C. Newman</u>
Workstation	<u>E. Walsh</u>	Systems Engineer	<u>T. Lynch, J. Smith</u>
SR A Photographer/Observer	<u>E. Zipser</u>	Data Technician	<u>D. SanSouci</u>
GPS Omegasonde	<u>E. Zipser</u>	Electronics Technician	<u>R. Tong</u>
AXBT/AXCP/Guest	<u>L. K. Shay, J. Cook, S. Guhn</u>	Other Flight Engineer	<u>J. Curry</u>

Take-Off: 1703Z Location: Mac Dill
 Landing: _____ Location: _____ Number of Eye Penetrations: _____

B. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

C. Mission Briefing:

Lead Project Scientist Event Log

Date 23 Sept 02

Flight 020923L

LPS P. Black

Turn pt
Drop #

Time	Event	Position	Comments
1. 174815	CTD14 ^① , GPS1	25 57 8415	GPS good SST=28.5 CTD good
2. 175510	CP12 ^②	2537 8438	
1757	SFMR TB ¹¹	bad no	SFWS
	94 116 129	128 123 118	
1759	reset SFMR		
3. 180132	CTD14 ^③	2523 8459	CTD good SST=28.9 MLD=50m
4. 180800	CP16 ^④	2510 8521	CP good
5. 181404	CTD12 ^⑤ , GPS2	2457 8542	GPS good CTD good
1800	radar syst	freeze up	
1815	radar back-up		
6. 182040	CP14 ^⑥	2443 8605	
7.	CTD16 ^⑦		
8.	CP12 ^⑧		
9. 184005	CTD14 ^⑨	2404 8709	CTD good
10. 184704	CP12 ^⑩ , GPS3	2347 8731	turn pt 2
1842	SFMR TB ¹⁵		
	94 122 126	127 124 118	
11. 185148	BT14 ^⑪	2332 8737	SST=28.6 MLD=40m
12. 185819	BT12 ^⑫	2310 8744	SST=28.0
13. 190527	BT14 ^⑬ , GPS4		GPS good SST=28.6 MLD=40m
14. 191112	BT16 ^⑭	2240 8732	SST=28.0

①

②

③

Lead Project Scientist Event Log

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Date _____

Flight 020923 I

LPS

6 Black

	Time	Event	Position	Comments
15.	191717	BT12(12)	2231 8715	SST = 26.5
16.	192317	BT12(12)	2222 8658	SST = 26.1
17.	192901	CP14(11)	2212 8641	CP good depth = 150m
18.	193455	CP16(12)	2204 8625	bad 48 h ⁺ FLWS - quieting but no signal
19.	194110	CP12(13)	2154 8607	CP fail
		SFM R 6.86 + 7.22 have more noise + are		
		in general larger TB's + 5164 also		
		6.35 highest TB (lowest noise = 1.5)		
		6.86 highest noise, lowest TB		
		K (1.9N)		
20.	194648	CP14(14)	2146 8552	CP good - strong MVE ^{current} mag
21.	195228	CP16(15)	2136 8534	wire break at 100m strong current shear
22.	195800	CTD(14)(16)	2127 8518	SST ~ 28.9
23.	200300	CP12(17)	2118 8501	CP good SST ~ 29.0
24.	200906	CTD16(18)	2110 8444	CTD fail
(4) 25.	201425	CP14(19) GPS5	2059 8438	GPS good CP quieting, but no signal - DVD
26.	202021	BT12(17)	2050 8455	SST = 28.8
27.	202721	BT14(18)	2041 8519	SST = 29.1 $d_{26} = 180m$
28.	203432	BT12(17)	2030 8544	SST = 29.2 $d_{26} = 160m$
29.	204112	BT14(18)	2021 8607	SST = 28.9 $d_{26} = 150m$
(5) 30.	204756	CP12(20) GPS6	2016 8621	winds good, CP good
	2044	strong, then bend parallel to coast along shelf break		

Lead Project Scientist Event Log

Date

Flight

020923I

LPS

P Black

	Time	Event	Position	Comments
31.	205109	CTD 14 (21)	2030 8622	good CTD
32.	205525	CP 16 (22)	2048 8625	CP good
33.	205944	CTD 14 (23)	2108 8627	near strong band - wind at top near cal
34.	210423	CP 12 (24)	2128 8630	wire break 100
35.	210823	CP 14 (25)	2148 8630	wire break 100m
36.	211252	CP 12 (26)	2205 8630	
37.	211707	CP 14 (27)	2224 8631	no agar near 2 near 2 fort
38.		CTD 14 (28)		
39.		CP 16 (29)		
40.		CTD 14 (30)		
41.		CP 12 (31)		
42.		CTD 14 (32)		
43.		CP 14 (33)		
⑥ 44.	214028	BT 14 (11) GPS 7	2400 8628	SST = 27.4
45.		BT 12 (12)		
46.		BT 13		
⑦ 47.	222656	CTD 14 (34) GPS 8	2400 8333	GPS good CTD good SST = 28.9
48.	223353	CP 14 (35)	2343 8354	good CP
49.	224138	CTD 14 (36)	2327 8417	SST = 27.9 $d_{76} = 170 \mu m$
50.	224858	CP 12 (37)	2310 8439	CP good quieting only DUP
51.	225630	CTD 14 (38)	2254 8501	SST = 28.2 CTD good

214028

2400 8626 SST = 27.4

Lead Project Scientist Event Log

Date _____

Flight

020923I

LPS

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	Time	Event	Position	Comments
52.	230350	CP16 (39)	2238 8524	fail
53.	231135	CTD14 (40)	2222 8547	good
54.	231135	CP12 (41)	2222 8547	
55.	231135	BT14, CPA		
54.	231843	CP12 (41), BT14 (41)	2205 8608	CP + BT good
55.	232418	BT14, GPS 9	2158 8626	60 kt wind, 10m/sec
56.	2327	cutting thru major band		SST ~ 26.0
56.	232840	BT12 (42)	2208 8644	fail, dud
57.	233330	CP14 (42)	2222 8657	bad again
58.	234754	CTD16 (43), GPS 10	2252 8707	big cell just south
59.	235329	CP12 (44)		GPS good, CTD good in strong cell
60.	000025	BT16 (47)	2312 8625	fail, dud
61.	000720	CP14 (45)	2327 8601	good
62.	001340	CTD16 (46), GPS 11	2339 8539	
62.	0014	SFMR started working better after flying thru heavy rain and moderate turbulence - only temporary		
62.	002035	CP12 (47)	2353 8516	CP good
63.	002456	CTD14 (48)	2405 8454	SST ~ 28.9 CTD good
64.	003340	BT14, GPS 12	2418 8431	SST ~ 28.6 Breach BT2
65.	003938	BT14 GPS 12	2432 8408	GPS good w. 3C warmer than BT 1 & BT2 has many noise spikes; BT1 is clean

BT1 lost signal
BT2 continued receiving with noise spikes

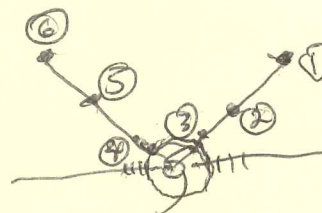
10

D. Equipment Status (Up, Down, Not Available, Not Used)

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft			
Radar/LF			
Radar/TA (Doppler)			
Cloud Physics			
Data System			
Omegasondes			
AXBT/AXCP			
Workstation			
Videography			

REMARKS:

IP 2510 8505



① 2300 8800

② mid leg

③ seawall NE

④ seawall NW

⑤ mid leg

⑥ end leg NW

~~BT/12~~~~BT/14~~~~BT/12~~~~BT/14~~~~BT/12~~~~BT/14~~~~BT/12~~~~BT/14~~~~BT/12~~~~BT/14~~ GPS 1~~BT/12~~ GPS 2

GPS 3

GPS 4

GPS 5

GPS 6

GPS 7

GPS 8

GPS 9

GPS 10

GPS 11

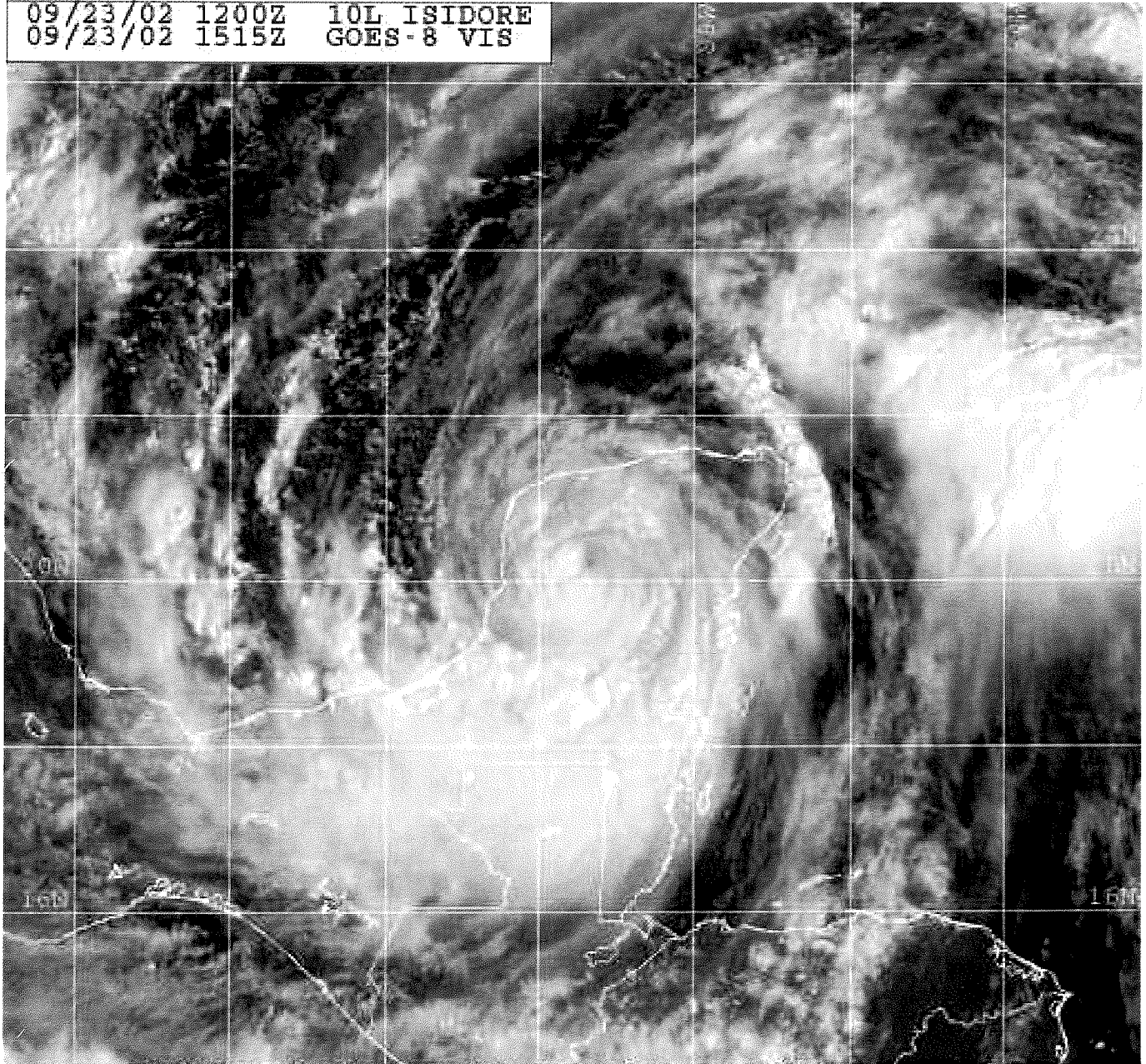
BT 14

BT/12

$$2\sqrt{115} \approx 21.2$$

57
31
53

09/23/02 1200Z 10L ISIDORE
09/23/02 1515Z GOES-8 VIS



Naval Research Laboratory http://www.nrlmry.navy.mil/sat_products.html
← Visible (Sun elevation at center is 48 degrees) →

9/23/02 1439Z G-8 VIZ

