

E.2 Lead Project Scientist (On-board)

E.2.1 Preflight

1. Participate in general mission briefing.



- 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 OAO Flight Director/Meteorologist and CARCAH unless briefed otherwise by Field Program Director.

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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 OAO 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

- Broken 1. Confirm from OAO Flight Director/Meteorologist that satellite data link is operative (information).
- NOSE ONLY 2. Confirm camera mode of operation.
 - Confirm data recording rate.
 - 4. Complete Form E-2.

E.2.3 Postflight

- 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 OAO Flight Director.]

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

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5. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

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On-Board Lead Project Scientist Checklist

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	Date 870929H Aircra:	ft_42RF	Flight ID 87092914		
Α.	Participants		DEPARTIC CU		
	HRD		0A0		
	Function Participant	Function	Participant		
	Lead Proj Sci Willis	Flight Direc	Bogart Damiano		
	Cloud Physics Blach / Hallett	Pilots	Tickener Meyer		
	Radar <u>Dodge</u>	Navigator	Nokutis		
	Doppler	Sys Engr	JARVI		
	Photographer	Data Tech	Thompson		
	Omegasonde Franklin	El Tech	Levu		
	AXBT/AXCP	Other			
	Take-Off Location	Landing	Location		
	1722/15 MIA		MA		
в.	Past and Forecast Storm Location	ns			
	Date/Time Latitude Longitud	e <u>MSLP</u>	Max Wind		
c.	Mission Briefing				
	Inperidual Ca, climb with tone parcha				
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	in clent empronn	nent			

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D. Equipment Status

Equipment	Pre-Flt	<u>In-Flt</u>	Post-Flt
Aircraft	~		
Radar			
Cloud Physics			
Data System			
Omegasondes			
AXBT/AXCP			
Doppler			
Photography	-V NOSE ONLY		
	/		

REMARKS:

43 PCP PROBE MALFON ON GROUND.

NO HARD COPY UNIT

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1

E.I. Proposed Flight Pattern (Sketch or designate by number)



II. Actual Flight Pattern

Worked W side of cloud group new cells building on WNW side A clend mass over the Exuma

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NOTE: Lobel full degrees according to location of flight area

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Date 29 Sept 87 Flight Oceance Cy

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8

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LPS

SOO

1000

19.2

50 8 23,6

22

24.2/21

Climb

1726

Lead Project Scientist Event Log

	1		[
Time	Event	Position	Comments
1715/20	Run Up		
1722/15	TAKE OFF	MIA	
1802/59	23 59,1	77 34.7	316/22 -4.8-6.4 519.1m
18 23/45	aloup 1 PARI	23 97,8 76 00	3 -0.6°C
1830/00	CLOUD 1 PASS Z	23 40,9 76 3.8	TRA 117
1836/50	CLOUD 1 PASS 3	23. 39.1 75 35.8	TRU 306
1844/25	alono, PASIA	23 40,7 76 1.6	TRA 102
1850/59	CLOUPZ PARII	23 21,7 7551.2	TRA M7
1856/20	CLOUDZ PASIZ	23 15.14 25 44.5	TAR 322
1903/45	CLOUP 2 PASI 3	23 25.71/75 55.11	N TRA 133 270/11-1.5
1910/55	usupz PASIA	2311.3 75 4815	1886 317 -2.4°C
19/9/92	CLOUP 2 PASIS	2317.1 7557.6	2.41
1990/20	CLOUD APASI	23 16,3 76 3.9	3 celle hdgssit
1952/17	42	23 34 76 63	HOG DOS 312 coll
1959/00	43	23 9.0 76 3.9	2 cells boor alt.
2005/20	44	2364 76 106	-8.8°C HOC 317
20 27/41	5 paris	28 9.2 76 9.7	ADG 07/ 1.100
233/50	5 page 2	23 10,4 75 57.	7 ADG 238 EARLY
2041/00	Spar 3	12 2.2 76 2.1	1,06 0.56
2019/38	5 page 4	2259.275.57	5 HOL 255
2200/45	LANDED MIA	25 49,4 80 19,7	equalit discounts Hard

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Date_____Flight_____LPS____

Lead Project Scientist Event Log

Time	Event	Position	Comments
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