Lead Project Scientist

Flight ID_	100930H/ Mission ID WXO7A FEARLS
Preflight	
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.
5.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
<u></u>	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.
<u></u>	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.
1 , 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 hea and speak using the headset.
-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).
st 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.
ote: all data r	emoved 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 th 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 Earl 2010	_ Experiment name_	
Flight ID 100830H1	_ Mission ID_ WX 0	7A EARLS

A. Participants:

HRI)	AOC		
Function	Participant	Function	Participant	
Lead Project Scientist	GAMACHE	Flight Director	DAMIANO/WILLIAM	
Radar/Workstation	R-LORSOLD W- UHLHORN	Pilots	NEWMAN/SWEEN'S MARTIN	
	WI- UHLHORN		MARTIN	
	V V	Navigator	BRAKOB	
Cloud Physics	plumination of gallered lan	Systems Engineer	BOSKO LYNCH	
Photographer/Observer		Data Technician	OLNEY	
/Guests	Market Street Street Street			
Dropwindsonde	UHLHORN	Electronics Technician	0 3	
AXBT/AXCP		Other K	LIPPEL - FLT ENG.	

B. Take-off and Landing Times and Locations:

Гаке-Off: 093947 UTC	Location:	BARBADOS
. = 4 = 7		0.0000

Landing: 1527 UTC Location: BARBADOS

Number of Eye Penetrations:

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
14 CONTRACTOR OF THE PARTY OF T		is a new dien 1500 seke	al region courses bed	manufacture of
	emot Laudginda Bira ya unu i	X 1998 Builds as each result to	itte jo suoi a arodij	The second second
European European			October Medical Descript M	stie menti
	south to any Torontament		व्यक्ति स्वायक्ति । स्वयक्ति । इत्यक्तिस्य	
GPS walter	vagatoura ac en	on Saldi Solo Austri Sandares	para kana mandalah	hydrift care

D. Mission Briefing:

ROTATING FIGURE 4

ROTATING FIGURE 4

MONITORING CORE AND

IMMEDIATE DENVIROMENT

AS EARL APPEARS TO BE

INTENSIFYING RAPIDLY

Storm or Project	Experiment name		
Flight ID	Mission ID		

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	100 60 40	1 1.0000-17	NOW 386	K 31
Cloud Physics				
Data System			1 1 8	757
GPS sondes				
AXBT/AXCP			- P	2452
Ozone instrument		(A)	e Sara I - 12	
Workstation				
Cameras	13 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pap	(1-6-1-7	11

Broblems with hydraulics on 42, apparently in the circuitry somewhere. I asked that if we wild conteme I would like tog doing a butterfy pattern instead of a votating figure 4 to keep the mession shorter and still stay in our 4 oclock tokeoff schildren to also important to finish in time for 43 to turn around for musion

Lead Project Scientist Event Log

Date 30 AUG 200 Flight ID 100830H LPS GAMACHE

Time	Event	Position	Comments
093947	T/0	BARBADOS	49
10 32	BIG DEVISTION	16058 600 33	AUDIDING NASTY OUTER
function	Participa	at Appletion	CONVECTION
103935	POINT 1 Drop	17°28' 60'40'	178/54 "LODIES G
1053	180	Navidator on	FL WND PERKG 731cts
1000		Systems Savin	E 2 7 74
11059	DROP		FLWIND PEAK & BOKKS
			50 m/s SFMR
1110	9 DROP	1826 6249	965 mb (sonde)
1116	DROP	1835163121	N 35m/s SFMR
1156	DROP	17036 6433	335/40 KHS
1220	Eyewall Drop	1823' 63013'	
1226	DROP ENGLED	Marsha C	Spotty
1228	DRU PENEWAR	1840 6243	V
1222	gunfixed	1832 6306	" I'm the core
2 prisable	mox wind F	con NEside who	+ coulds SFIRE N 82
1251		1930 61 19	143/70
1313	DROP on Nside	20019 6395	
1335	DROP on Neywood	1849' 6399'	LCUIS SANGOLYIL
1339	6 Drop	1833 (320	A TOTAL TOTAL
1342	9 (hunted)	1835' 6320	Max FL winds abou
1345	5 Eyuvall Drop	1820 6322	Max FL winds about
1910	5 Drop (last)	1637 6321	230/55
1 22 1	time around	4 113 16	Louis and there

mont 55 m/s on 5 de 287, 12

Mission Summary Storm name YYMMDDA# Aircraft 4_RF

	Scientific Crew (4 RF)		
	Lead Project Scientist	<u> </u>	
	Radar Scientist		
	Cloud Physics Scientist		
	Dropwindsonde Scientist		
	Boundary-Layer Scientist		
	Workstation Scientist		
	Observers		
Mission Briefing: (in	nclude sketch of proposed flight track	c or page #)	
(C)	taking Fig 4		
Fo	tating 1 is	78	W,
Mission Synopsis: (in	nclude plot of actual flight track)		
			this A.L.
3111	Azis = 15	1	our are
Baltlerte	1	X	
0			
Evaluation: (did the	experiment meet the proposed chies	tives?)	
yes: Down	experiment meet the proposed object	luell. F	ralue d just
3D and	apes.		
Problems:(list all pro	oblems)		
Our pine	to afine could not be	Long	se cause of
one j	1 ' (0 4	0
time co	nstaints, resulting	i fon T	a newsony
rep	cur of the man 10) 0 , .	1 (1 /2)
Expendables used in	mission.	ydraulic	(108 2)
GPS sondes :	to ation could not be us hairs, resulting mission.	eveny the	a fleght control
AXBTs:		0	10
Sonobuoys:		54:	Sous.
		V	