	Lead Project Scientist			
	080830 H Storm Gustav LPS Aberson			
Preflight				
1.	Participate in general mission briefing.			
2.	Determine specific mission and flight requirements for assigned aircraft.			
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:  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.			
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).			
7.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.			
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 form 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).			

### **Lead Project Scientist Check List**

Storm or Project			Experiment na	me Ocean	winds
Date <u>80010830</u>	Aircraft _	NAZRE	Flight ID	080830H	
A. Participants:	NOAA2 1707A	GUSTAV			

HRI	)	AOC	
Function	Participant	Function	Participant
Lead Project Scientist	Aberson	Flight Director	Damicano
Radar		Pilots	
	Gamache Lorsolo Am	none	Grumonte/Chay
Workstation	,1)	Navigator	Bishop
Cloud Physics		Systems Engineer	Wade
Photographer/Observer		Data Technician	4/
/Guests	-4-1		Bart, Greene Bosko
Dropwindsonde	_	Electronics Technician	Poek
AXBT/AXCP		Other Zelenak, Chu, Munus	Tagget

## B. Take-off and Landing Times and Locations:

Take-Off: 2018 UTC Location: MacDill

Landing: 0153 UTC Location: MacDill

Number of Eye Penetrations: 3

#### C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind	motion
30/182800 AF	210 41'	92° 391	943 mb	140 Kt FL 98 Kt SFM	k
30/200840 AF	32001,	820 51'	942-mb	143K+FL, 83K SFC	312º/14kt
30/215412 AF	200 21'	830 05'	942 mb extrap		3080 Makt
30/ 21487 NOAA	220 191	83° 05'	936 mb sirtrap		
30/2256Z NOA4	220 291	830 16'	none lover land	125kt FL	3200/14kt
30/234472 AF	220 37'	830 25'	952 mb		

D. Mission Briefing: Jaua 4, Then Ocean winds

320 /14kt

2138 230 21' 830 03'

5- map, FL, stors,

7- store
13-15 radar
10-12 display

## Lead Project Scientist Event Log

Date OPORSO Flight OPORSO H LPS Aberson

Time	Event	Position	Comments	
201800	Lead	massill	slight day due to their derstray	
2021	Over lim ground h	understorm. Rader		
2036	Through Levet house	band radar has b	en on	
2102	another outer ba	nd	- Ann A	
	IP 21°03' 83°	32'		
	Current plan	180° 90 mm leg in	bound	
		200° 105 mm Jog BU	thound	
		310° 90 nm bg u	bound	
		290° 90 nm tog 80	theend	
2119	Sonde #1		- Table 4	
2/43	eyoural passage	Sur Garage 2	N80C Sladum addet	
2150	eyod parrage	Sonde # 2	eye T almost 200 C 85ht SPC	orseald
			~ 136 kt in bound, 100 kt outbound	0
2208	doccondena to 8000H	to desorpliet with A	F. Yerm Sondo#3	
2233	Sonde # 4 Yerm	nbound		
2241	Sonde # 5 Shall	newater ~25 ms-1	SFMR	
			Wodge in LF, except over land or when re booken	e
2244	hack 300°		or when re booten	19
2247	climb to 12000 ft	44		
2248	Sonde# 6 sha	llow water ~30 ms-1 5	FNR	
2250	track 200			
2251	Sonde # 7 lep	vall cally over las	1 Apriota?	
2258	exercall sing?	7.800	ice by thing	
2312	Sondo # 8 therm	epwind to start wear	nunndi pattem	
2336	descent to 10000 out	ide yem sorth bound		
2350	Herm outbound & wai	tolor eyearl to come	Systeme	
0003	back in bound		(V	

# Lead Project Scientist Event Log

Date	Flight	LPS	
------	--------	-----	--

Time	Event	Position	Comments
0020	lightning in circum	200	
	merovor too seen	1000	In restartinty and IR satisf
0025	sene trated segmall	lue mow open s.	The share of the in share
0036	dermaround in eye	2	
0042	Sonde #9 That	Imena 44ms-1	SFMR
	22 43 83 32	700297	
	Possible seconda	re organol NE to 1	V. Can't se sort due to wed
	sam in	Thight Quel winds o	n way in but not on way out
		F	
		Y	
			and the second of the second o
			W. C.