# **Lead Project Scientist**

Storm or Project ACOU (15th ba) Experiment name Experiment name				
Flight ID 20140825 1 4 Mission ID 130A (M870) val				
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.			
5. 6. 7. 8. 9.	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.			
7.	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.			
<u></u>	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 hear and speak using the headset.			
In-Flight				
	Confirm from AOC flight director that satellite data link is operative (information).			
2. 3. 4.	Confirm camera mode of operation.			
	Confirm data recording rate.			
	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.			
	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.			
[Note: all data rer	noved 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 the aircraft to MGOC.			
	Determine next mission status, if any, and brief crews as necessary.			
	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 ALOY COSOPAL Experiment name TOR

Flight ID 20140825 I Mission ID

A. Participants:				
HR	D		AOC	
Function	Participant	Function	Participant	
Lead Project Scientist	Selly Don O	Flight Director	Lohar Kers	
Radar/Workstation	Mocron.	Pilots	PENIFS (DCG) 2	
			Kipby Me	
		Navigator	<1-01	

Systems Engineer

Electronics Technician

Data Technician

Other

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

Take-Off: 753 UTC Location: MacDi Landing: OUZ UTC Location: Maco

Number of Eye Penetrations: \_\_\_\_\_\_

Cloud Physics

Dropwindsonde AXBT/AXCP

s/Guests

Photographer/Observer

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

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
1734	24.59	7238	995	65 Kt
1847	25.02	7239	993	65 Kts
2010	25,02	72,30	992	36 KHS
215932	2457	7215	992	54 Kt
232816	2501	7157	990	73 Kts

045 Jkfs 1847 6 2010 3 215932 2 21645 215932 2 232816 2 1045 D. Mission Briefing:

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	1			
Doppler Radar/TA	R	Case at 1 - Sa		
Cloud Physics	T			
Data System	1			
GPS sondes	1		N - 1 - 1	
AXBT/AXCP	1			
Ozone instrument	3			
Workstation	7			
Cameras	7			

#### **REMARKS:**

got SEMR high incidence dive on 1st paes, Concor about not getting first analysis to the for 182 cycle. It was suggested that no moreover sound berum on 1st signed as a rule, GIV sampling near center converting a chand of P3 and dropping effectively a annealing borst held midpoint drop to catch Rimil. 40 mls at fight level on st inside of midpoint, Slow Stealy pressure Paul, Coshood upgaled to him are based on \$ E. quedrant obsorutions, Spende advisory after 800pm EDT. Frequent Spende advisory after 800pm EDT. Frequent

## Lead Project Scientist Event Log

Date 8/25/14 Flight ID 20140825II LPS Sellwood / Aporson

Time	Event	Position	Comments
1939	IP		
1950	LFreset		
1954	mid Dron		
2008	center dop	2459 7238	early drop
2009	bkup center	252 7239	
2019	drop	252 7249	stat ardes
20531	mid dryp	25167129	0
210718	turn		end ruder and
212900	turn		
-71	mid drap		
215976	center	2457 7214	
2214	mid	24,572,9	
223018	turn	2313 7321	end rado onal
230000	turn a	2317 7110	
2317	RMW		1Rtest
2817	RMWa	2432 7155	Rmw
232778	conto	2459 7157	
2343	mid	2553 1231	
2355	turn	2412 1337	end of puttern
			U
	* 1		

# Mission Summary Storm name YYMMDDA# Aircraft 4\_RF

Scientific Crew (4 RF)
Lead Project Scientist Selvolo / Anger
Radar Scientist Processing
Cloud Physics Scientist
Dropwindsonde Scientist Han Che
Boundary-Layer Scientist
Workstation Scientist
Observers (affiliation)
Mission Briefing: (include sketch of proposed flight track or page #)
Figure 7 wite extra reg
- 120 nn regs
Mission Synopsis: (include plot of actual flight track)  TOR to EMC man objective will insert convertive point module SE of center if anysming is shore on final leg. Mso IR drop test and man incidence SFMY fest if possible
The 1- Em - & at leatile will insert convertive
To ene man objective to many is there on
hirst module SE of center is anyone of Stark
66 lee. Mgg IR drop test and won indideter simi
Lat Epossible
tes (lild in all lines)
Evaluation: (did the experiment meet the proposed objectives?)
Problems:(list all problems)
Expendables used in mission:
GPS sondes :
AXBTs:
Conchusion
Sonobuoys: