Flight ID_	2012/028H1 Storm San Leg LPS Marks				
Preflight					
1.	Participate in general mission briefing.				
2.	Determine specific mission and flight requirements for assigned aircraft.				
	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.	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 HFP Director.				
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 member has a life vest.				
7.	Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.				
In-Flight					
1.	Confirm from AOC flight director that satellite data link is operative.				
	Confirm camera mode of operation.				
3.	Confirm radar recording set-up.				
4.	Confirm data recording rate.				
5.	Complete Lead Project Scientist Form.				
6.	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 bag separately from other missions. Turn in to data manager at HRD.				
5.	Copy serial flight data, dropsonde files, and radar data onto thumb drive. Turn in with completed forms.				
6.	Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to HFP Director.				
7.	Determine next mission status, if any, and brief crews as necessary.				
	Notify HFP Director as to where you can be contacted and arrange for any further coordination required.				
<u> </u>	Prepare written mission summary using Mission Summary form.				

### Lead Project Scientist Check List

A. Participants:			
HRI		AOC	Participant
Function	Participant	Function (	Participant
Lead Project Scientist	Marks	Flight Director	Henning/Dan
Radar	Bucci	Pilots	Halverson/Priz
Dropwindsonde	Sellwood	Navigator	Kible alla
Sea-Air		Systems Engineer	11 +1
Photographer/Observer/ Guests (sive efficient)	S. Mac Donald C. Mclean	Data Technician	Lynch/Riche
(give affiliation)	C. Teles		Lynch/Riche
Cloud Physics		Electronics Technician	Darley
		Other (	

# B. Take-off and Landing Times and Locations: Take-Off: 9758 UTC Location: Mac Dill AFB Landing: 1507 UTC Location: Mac Dill AFB Number of Eye Penetrations: 3

### C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
123	31.9	73.5	957 952 955	
10		, - , - ,		

E. —Equipment Status (Up ↑, Down ↓, Not Available —, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	Number of Expendables
Radar/LF	9	1	9	
Doppler Radar/TA	9			
Cloud Physics	8	and the second s	- Annual Control of the Control of t	
Data System	91			
GPS sondes	91			16/16
AXBT/AXCP	71			18/6 bad
Ozone instrument			-	
Cameras	91	T		
Other ( )				

D. Mission Briefing:

See attached Flight plan.

Butterfly 3 legs 100 nm legs in the 20 nm

extensions on N

and NW side

12000 ft. (watch for ice -dexend to 8 kft)

Cambo droppaxBT end points, mid point and

1st and 3rd eye drops

3 eye drops

TWRAP working

#### **Lead Project Scientist Event Log**

Date 28 Oct. 2012 Flight ID 2012 1028 H/LPS Marles
Can else Amie Confolderate

	See	electric	10 graya erays
Time	Event	Position	Comments
0758	To	MacDill	
0846	18	100 nm 50	
1003	6	31.8,73.5	957mb
1030	12	120 mil N 52	just & of majorran
1055	3	120 MM NWO	in histor ramba
1123	6	31.9 73.35	95646
1145	4	100MUSES	n dear
12.13	5	100 nm NE 6	in dear
1243	6	31.95, 72,98	955 mb
1313	6	100 nm 5w 6	
		t and the second	
	Ma 14 13 / 10 / 11		
	2		

Longitude (°)

## Mission Summary Storm name

YYMMDDA# Aircraft 42RF

De Coo con
Scientific Crew (4 RF)
Lead Project ScientistMarks
Radar Scientist Bucci
Dropwindsonde Scientist Sellwood
Sea-Air Scientist
Cloud Physics Scientist
Observers Mclean (OAR)
MacDonald (OAR)
Mission Briefing: (include sketch of proposed flight track or page #)
see plan
Mission Synopsis: (include plot of actual flight track)
11kft between pt 253 to avoid e feets and grampel - vemained at 11kft
11.0
11 Kff between Pt 283 to avoid e feeting
and around - remained at 11kft
Chalit
Engly ation (did the approximant the supplier of the supplier
Very interesting mission - eye evolution was
very interesting mission - egg evolution was
Easterna Dina
Problems:(list all problems)
minor alitches with Lt and power but.
In a so a so a land
Minor glitches with LF and power but No impact on observations collected
Expendables used in mission:
GPS sondes:
AXBTs: 18/6 bad
Sonobuoys:
Rulan anulyses 3
To wo www you