Lead Project Scientist

Storm or Project EARL 2010 **Experiment name** IFEX
Flight ID 100903H1 **Mission ID** WX07A EARL12

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.

____ 6. 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.

____ 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 hear and speak using the headset.

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. 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 removed 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.

____ 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 12 **Experiment name** IFEX

Flight ID 100903 H1 **Mission ID** WX07A EARL12

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	GAMACHE	Flight Director	SEARS, DAMIANO
Radar/Workstation	R. REASOR W. VIALHORN	Pilots	NEWMAN, MARTIN, SWEENEY FLT ENG: KLIPPEL, DAVEY
		Navigator	BRAICOB
Cloud Physics		Systems Engineer	BOSKO, LYNCH
Photographer/Observer /Guests		Data Technician	OLNEY
Dropwindsonde	UHLHORN	Electronics Technician	
AXBT/AXCP	~~UCH~~ UHLHORN	Other	

B. Take-off and Landing Times and Locations:

Take-Off: 104238 UTC Location: MACDILL

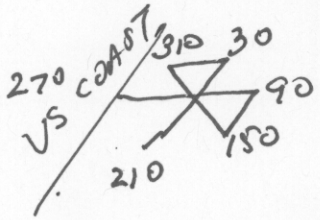
Landing: 183614 UTC Location: MACDILL

Number of Eye Penetrations: 3

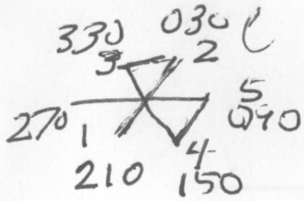
C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:



42's final flight into Earl (2010)
Near ET. Losing eye in last few hours.
12th P3 flight into Earl covering
7 days with one day down



Lead Project Scientist Event Log

Date SEP 03, 2010 **Flight ID** 100903H1 **LPS** GAMACHE

	Time	Event	Position	Comments
	104238	T/O	MACDILL	
	105432	RADAR RECORDING STARTED		
	1232	Rainband pene	34°25' 75°30'	Not too cellular looking very stratiform, apparently quite light too
	1227	936.2 73.5 Teal		
SST 27.4	1244	DOMBO P1	35°3' 74°74	308/55
	125430	BT	35°36 74°10'	
SST 27.5	1303	Sonde somewhere warmey	36° 5' 73°40'	Little precip to
005 12	1308	BT	36°21' 73°29'	the south of center
	1323	BT 26.1	37 17 75 50	max FC
No launch detect	133608	combo drop pt2	38°4' 72°24'	108/62 was 81 kts
	133756	backup sonde pt2	38°? 72°37'	105/67
	140252	combo drop pt3	37°59' 74°31'	058/50
	141526	BT	37°12 73°6'	
	142421	drop	36°48' 73°14'	
	142728	combo 6	36°39' 73°8'	
	144034	35°52'	72°33'	237/78 60kts SFMR
	145340	combo drop pt.4	35°, 3' 71°54'	230/78 52kts SFMR
	151?	combo drop pt.5	37° 4' 70°40'	174/83
	152905	combo drop M-d pt E	37°4 71°54'	173/80 60kts SFMR
	154148	BT	36°56' 73°	5
	155355	combo drop M pt W	36 57 74°4'	350/47
	160342	Combo pt pt.6	36°57' 74°57'	358/57
	183614	Landing	MACDILL