Lead Project Scientist

Storm or Project Dora **Experiment name** EPIC Decay
Flight ID 110724Z1 **Mission ID** 0403A Dora

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 Event Log

Date 7/24/11 **Flight ID** 110724I **LPS** M. Black

Time	Event	Position	Comments
1700	Takeoff	San Diego	
1857	Descend to 5K ft to SW PT-IP		
		23.62° 115.92	
	change pattern to IP at SW instead of W		
1913	Turn to SW IP		at 5K ft
#1 BT 191445	Combo #1	22.62 115.39	SFMR 15 m/s
21.6	BT #1	25.6	5 m/s SFC sonde
191932	sonde #2	SFMR 15 m/s - sonde 5 m/s	
RB	in band	is outside edge	22.9 115.18
#2 BT 192610	Combo #2	23.24 115.0	SFMR 14 m/s
22	Mid point		
193020	Sonde #3	23.52	114.83 SFMR
EYE 193810	Center	23°46' 114°29'	15 m/s
	Sonde #4	1008.5	
#3 BT 195035	Sonde	24.5 114°C	21.5°C
2003	#5	Sonde SFC	25 kt
	NE point	turn 25.28 113.55	
#4 BT 200400		25.30 113.60	
	Combo #4	20.2°C	
#5 BT 202902	Combo	25.32 115.49	14 m/s SFMR 10 kts unreliable
	19.5°C		
#6 BT 204112	Combo	24.6 115.0	NW mid
		20.0°C	
205330	Eye	24.0 115°	
#7 BT 210419	Mid point 27.0	114.20	

28 kt flt lvl SFMR 28 kt 20.6°C

Lead Project Scientist Event Log

Date _____ **Flight ID** _____ **LPS** _____

Time	Event	Position	Comments
~~2104~~		22,81 113.66'	
BT 212150	Combo	SST	23C End of pass 2
BT 2147	Combo	24,14	112.86
	BT		
Sonde 2215		24,07 114.73	Center of
Combo 222520	Combo	mid pt rain	57
		23.61 115.27	
224600	Combo	24,10 116.54	End
		21,10	point WM