Lead Project Scientist

Storm or Project Dora **Experiment name** EPIC decay exp
Flight ID 110723I **Mission ID** 0204E

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 Dora **Experiment name** EPIC Decay

Flight ID 110723I1 **Mission ID** _____

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist		Flight Director	
Radar/Workstation		Pilots	
		Navigator	
Cloud Physics		Systems Engineer	
Photographer/Observer /Guests		Data Technician	
Dropwindsonde		Electronics Technician	
AXBT/AXCP		Other	

B. Take-off and Landing Times and Locations:

Take-Off: 1759 UTC Location: San Diego

Landing: _____ UTC Location: _____

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
23/15Z	21.3	111.9	1004	40 KT
24/00Z	22.1	113.0		30 KT
24/07Z	23.3	114.2		
Interp 24/12Z	24.1	115.0		
25/00Z	24.4	115.2		
25/12Z	25.3	116.0		

D. Mission Briefing:

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Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

Time	Event	Position	Comments
#1 185942	At IP NW	23.86 115.24	Combo #1 SFMR 24
	1st BT no good?		
#2 1918	2nd BT combo	22.56 114.36	22° C SFMR 28
1920	Descending to 5,000 ft		
#3 1929	Turn at IP to east		
#4 193016	Combo #3	21.7 114.10	~~IP~~ 5 KM W 24°C
#5 194920	Combo #4	21.58 112.79	23°C
#6 195420	Combo #5	21.6 112.4	2 — CT — RS
195818	Combo RMW	21.6 112.2	21°C — CT
# 200259	Combo	rainband	22 m/s SFMR
	21.62 111.88		21°C
# 202139	Endpoint	21.6 110.7	
# 2043	Turn ~~end~~ inbound, 3rd	111 111.65	
	~~Combo~~		
— 204505	Combo	23.5 111.76	
RW — 210935	Combo	RD NE	22 m/s SFMR
	22.25 112.38		
#7 2112	←	Combo	
#8 ~~2~~ 124139	Combo	24.06 113.17	
2201	Combo	20.46 112.01	
#9 2140	Combo	24°C	SW point
# 221229	Combo mid	21.28 112.72	
#10 ~~223304~~	Combo		
2243	Combo	22.76 113.41	24°C
# 225440	Combo	~~21.57~~	
# 230148	Combo		