

Lead Project Scientist

Storm or Project Cristo'bal Experiment name TDR
Flight ID 80140123T1 Mission ID N04A3 0504A WAVE

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 Cristobal Experiment name TDR

Flight ID 140823I1 Mission ID 05EEA WAVE

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Abrerson / Sellwood</u>	Flight Director	<u>Holmes / Sears</u>
Radar/Workstation	<u>Sellwood</u>	Pilots	<u>Kibbey / Price</u>
	<u>-</u>	Navigator	<u>Birthday Boy Siegel</u>
Cloud Physics	<u>-</u>	Systems Engineer	<u>Kippel, Lalonde</u>
	<u>-</u>	Data Technician	<u>Nacher</u>
Dropwindsonde	<u>Chen</u>	Electronics Technician	<u>Greene</u>
AXBT/AXCP	<u>-</u>	Other ^{WRAP}	<u>Sapp, Frasier</u>
Photographer/Observer s/Guests	<u>Kyle Smith (JHS son)</u>		<u>Lalonde, Mitchell</u>

B. Take-off and Landing Times and Locations:

Take-Off: 1756 UTC Location: MacDill

Landing: 0126 UTC Location: MacDill

Number of Eye Penetrations: 00

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>23/20:43:20</u>	<u>21 43</u>	<u>72 18</u>	<u>1005 X</u>	<u>30kt SFMR, 25 FL</u>
<u>23/20:36:12</u>	<u>21 45</u>	<u>72 13</u>	<u>1003 X</u>	<u>27kt SFMR, 29 FL</u>
<u>23/21:44:40</u>	<u>21 47</u>	<u>72 21</u>	<u>1005 X</u>	<u>19kt SFMR, 30 FL</u>
<u>23/21:46:50</u>	<u>22 00</u>	<u>72 00</u>	<u>1003 X</u>	<u>31kt SFMR, 29 FL</u>
<u>23/22:57:30</u>	<u>21 49</u>	<u>72 21</u>	<u>1005 X</u>	<u>24kt SFMR, 30 FL</u>
<u>23/23:10:08</u>	<u>21 53</u>	<u>72 09</u>	<u>1005 SOND</u>	<u>33kt SFMR, 29 FL</u>

D. Mission Briefing:

Note for each center: multiple

Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

Time	Event	Position	Comments
1938	Turning to guard in orbit		
	30 min to IP		
1958	Begin descent to IP		
2001	IP first drop		
2024	mid point drop		
	may not be able to do center drop due to lens		
2036 ¹²	mark center, over land no drop, broad center	21 45	72 13 27 Kt SFHR Bkt FL
2045	through convective band. No SFHR for awhile		
2048	mid point drop		
	No drop mode parameters work on DISPLAY APP, working on fix		
2100	end of leg, drop, turn downwind		
2101	LF locked, TA fine, reset		
	large band of comma too far east for leg		
2125	inbound turn drop		
	first 3 sondes sent out via wrong Mission ID. Ian helping sound		FD error
2138	mid point drop		
2145			
2146 ⁵⁰	mark center drop, not accurate inland, significantly out of before		perhaps going into convection
2202	mid point drop		
2214	end point drop		
2235	into convective blob southeast. Some detouring		
2241	turn inbound		
2244	drop, start inbound leg		
2256	mid pt drop		
2300	connection 50 d Bz on LF & TA		line connecting
~ 2305	turned on radar wedge		
2310	mark center, drop		
2311	LF locked again		
2322	mid point drop		
2334	last drop, turn to base		