

## Lead Project Scientist

Storm or Project Cristóbal

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 Cristóbal Experiment name TDR

Flight ID 140823I1 Mission ID 05EEA WAVE

#### A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Aberson / Sellwood</u>	Flight Director	<u>Holmes / Sears</u>
Radar/Workstation	<u>Sellwood</u>	Pilots	<u>Kibbey / Price</u>
	<u>-</u>	Navigator	<u>Birchday Bay 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 <u>1 WRAP</u>	<u>Sapp, Frasier</u>
Photographer/Observer	<u>-</u>		<u>Kelley, Mitchell</u>
s/Guests	<u>Kyle Smith (son)</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>21kt 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 SONDO</u>	<u>33kt SFMR, 29 FL</u>

#### D. Mission Briefing:

*Notes for  
back: multiple  
centers*



# Lead Project Scientist Event Log

Date \_\_\_\_\_ Flight ID \_\_\_\_\_ LPS \_\_\_\_\_

Time	Event	Position	Comments
1938	Turning to avoid connection		
	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		
203612	mark center, over land no drop, broad center	21 45 72 13	20 kt SFMR Bkt FL
2045	through convective band. No SFMR for awhile		
2048	mid point drop		
	No drop mode parameter work on DISPLAY APP, working on fax		
2100	end of leg, drop, turn downwind		
2101	LF locked, TA fine, reset		
	large band of comma to far part for leg		
2125	inbound turn drop		
	first 3 sonde sent out w/ wrong Mission ID. len helping record		FD 21 06
2138	mid point drop		
2145			
214850	mark center drop, not accurate inland, significantly east 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		





