Lead Project Scientist

Storm or Project Lane **Experiment type** TDR
Flight ID 20180820H1 **Mission ID** _____

Preflight

____ 1. Participate in general mission briefing.

____ 2. Determine specific mission and flight requirements for assigned aircraft from the Field Program Director.

____ 3. 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.

____ 4. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.

____ 5. Determine from AOC flight director the mission designation and whether aircraft has operational fix responsibility.

____ 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 Field Program Director.

____ 8. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drops.

____ 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. Request AOC flight director to leave radar in non-sector mode for initial Figure 4.

____ 5. Once at IP, request AOC flight director adjust radar tilt to minimize sea clutter.

____ 6. Complete Lead Project Scientist Form.

____ 7. Check in occasionaly 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 Dropsonde raw and processed files from the AVAPS operator on thumb drive.

____ 4. Obtain a copy of the radar LF files from the radar technician on thumb drive.

____ 5. Obtain a copy of the tar'ed radar TA files from the radar scientist on thumb drive.

____ 6. Obtain a copy of serial flight data and raw NetCDF file on thumb drive from the data technician.

____ 7. Obtain a copy of SFMR data on thumb drive from the data technician.

____ 8. Obtain a copy of DMT data on thumb drive from the data technician.

____ 9. Report landing time, aircraft, crew, and mission status to the Field Program Director.

____ 10. Determine next mission status, if any, and brief crews as necessary.

____ 11. Prepare written mission summary using **Mission Summary** form.

Lead Project Scientist Check List

Storm or Project_____ **Experiment name**_____

Flight ID _____ **Mission ID**_____

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Aberson	Flight Director	Henning
Radar/Workstation	Sellwood / Gamache on ground	Pilots	Kahn / Didier / Abitbol
~~Cloud Physics~~ DWL	Ryan	Navigator	Ulrato
		Systems Engineer	Heystek / Sanchez
		Data Technician	Marcaro
Dropwindsonde	Sellwood / Aberson	Electronics Technician	Patel / Greene
AXBT/AXCP		Other	
Photographer/Observers/Guests	Surcing JTWC Evans NWS W Reg		

B. Take-off and Landing Times and Locations:

Take-Off: 0808 UTC Location: HNL

Landing: 0959 UTC Location: HNL

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing: TDR, butterfly, one BT at 24-h forecast position. Sondes at endpoints and midpt / RMW.

orange > 40 dBZ
red > 50 dBZ

Alt F10

Lead Project Scientist Event Log

Date ________________ Flight ID________________ LPS ______________________

Time	Event	Position	Comments
0201	Take off HNL		
0418	buoy out		SST ~27.7
044934	IP for radar drop		
0507	quite a bump!	nothing really on radar	
0508	sonde BT combo	BT failed	
051009	sonde center		13.65 N 146.36 W 051003Z
051200	sonde E eyewall		13.66 N 146.38 W 051940Z
053630	sonde E point		
✓ 055837	sonde NE point		
061846	sonde NE eyewall	no wind, sent replacement; BT failed	
✓ 0620 062154	sonde center		13.61 N 146.59 W 062141Z
✓ 062404	sonde SW eyewall		
✓ 064316	sonde SW point		
070030	sonde SE point		
072023	sonde SE eyewall	BT 28.1 SST	
072208	sonde eye		13.60N 146.73W 070220Z
072409	sonde NW eyewall	BT 28.5 SST	need Lat Lon QC !!
072507	sonde NW eyewall	Meaker BHW	can't get surface winds; can't override sfc pres
074452	sonde NW end pt		13.56N 146.81 072203Z