

## Lead Project Scientist

Storm or Project Loop

Experiment type TDR

Flight ID 20180921/H1

Mission ID 01/4 E Lane

### 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 occasionally 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 Lane Experiment name TDR

Flight ID 201082141 Mission ID 0714E Lane

#### A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Abersom</u>	Flight Director	<u>Herning</u>
Radar/Workstation	<u>Abersom</u>	Pilots	<u>Kalvin Didier Abiteol</u>
<u>DWL</u>	<u>Ryan</u>	Navigator	<u>Urrato</u>
Cloud Physics	<u>Sellward</u>	Systems Engineer	<u>Heystek Sanchez</u>
Dropwindsonde		Data Technician	<u>Mascaro</u>
AXBT/AXCP		Electronics Technician	<u>Eranga Patel</u>
Photographer/Observer	<u>Bravender CPHC</u>	Other	
s/Guests	<u>Bucknell JTWC</u>		

#### B. Take-off and Landing Times and Locations:

Take-Off: 0202 UTC Location: HNL

Landing: 0952 UTC Location: HNL

Number of Eye Penetrations: 1

#### C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

#### D. Mission Briefing:



# Lead Project Scientist Event Log

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

Time	Event	Position	Comments
0337	BT @ 24-k present position	27.9C	got data below 700m.
0404	wait point sonde # 1		
0415	first autor band		took pic of sea surface radar display
0427	sonde BT W eyewall		
0430	center drop	955 mb	
	polygonal eyewall		
	stadium shape		
0432	drop E eyewall		13.84 150.44 0430067
	large bang plan to go outside and		sample in moat between
	two large bands.		
0454	sonde E point		
0515	sonde turn inboard		
	lots of high radar echo inboard		
0531	two eyewall sondes		3.16 bit
0534	center sonde BT mond mps will	27.6 BT	21.3 m/s in sonde
0536	sonde SW eyewall	very bumpy	13.87 150.66 053424
0550	sonde SW pt		
0617	sonde SE pt		needed to remind Rich about
			straight legs instead of
0631	start circle path then / unat		curves
	~20 m/s		Rich apparently unresponsive.
	Didn't drop sonde BT at		problem with half a
	beginning as requested		conversation
	for backup		Had to push and repeatedly ask
0644	combo released		about doing circles in the
0646	first sonde no winds, backup allowed		moat
0649	backup BT	27.3C SST	

Rich would not get us back  
to original eyewall

## Lead Project Scientist Event Log

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

[illegible]