Radar Scientist

Flight ID 20160901 I2 **Storm** HERMINE **Radar Scientist** ANNANE

The on-board radar scientist is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and checklists are contained in the operator's manual. General supplementary procedures follow. (Check off or initial.)

Preflight

☑ 1. Determine status of equipment and report results to lead project scientist (LPS).

☑ 2. Confirm mission and pattern selection from the LPS.

☑ 3. Select the operational mode for radar system(s) after consultation with the LPS.

☑ 4. Complete the appropriate preflight check list.

In-Flight

_____ 1. Monitor the Tail Doppler Radar function regularly, using the realtime TDR display, to make sure the Doppler radar is scanning and working normally.

_____ 2. Maintain the Doppler Wind Parameter form as well as a written commentary in the Radar Event Log of event times, such as ending and restarting of radar recording. Also document any equipment problems or changes in R/T, INE, or signal status.

Post flight

_____ 1. Complete the summary checklist and all other appropriate forms.

_____ 2. Download all Tail (TA) radar data files to thumb drive.

_____ 3. Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.

_____ 4. Debrief at the base of operations.

_____ 5. Determine the status of future missions and notify HFP Director as to where you can be contacted.

HRD Radar Scientist Check List

Flight ID: _____20160901I2_____

Aircraft Number: _____N43_____

Radar Scientist: _____ANNANE_____

Radar Technician: _____MASCARO_____

Component Systems Status (Up ↑, Down ↓, Not Available **N/A**, Not Used **O**):

Radar Computer _____↑_____

Lower Fuselage (LF) Antenna _____↑_____

Tail (TA) Antenna _____↑_____

Radar Post flight Summary

Significant down time:

Radar LF _____NO_____

Radar TA _____NO_____

Other Problems:

HRD Radar Event Log

Flight ID __20160901I2__ Aircraft __N43__
Radar Scientist __ANNANE__ Radar Technician __MASCARO__

(Include down time and times of when recording ended and was restarted)

Time (HHMMSS)	Event

Doppler Wind parameters

| Flight ID: | 20160801I2 | **Doppler flight-leg notes (for use in automatic QC and analysis)** | | Scientist: | ANNANE | | | | |

Leg Start Time	Leg End Time	Storm Motion		Center Fix			Inbound	Outbound	Max Radius (km)	Horz. Res (km)	Sent?
				Time	Latitude	Longitude					
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	track	track	Default = 245	Default = 5	(Y/N)
19:47:30	20:03						parralel to the coast				
following coast 20:12	Coast										
20:27	21:05				28°36'	85°10'					
21:50	22:25						E	W			
22:25	23:10						W				