Radar Scientist

Flight ID 2016090J 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: _20160901 J2_

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: 20160930II2		**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				
20:12 following coast	Coast										
20:27	21:05				28°36'	85°10'					
21:50	22:25						E	W			
22:25	23:10						W				