Radar Scientist

Flight ID _20160828I1_ **Storm** _99L_ **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: __20160828I1__

Aircraft Number: __N43__

Radar Scientist: __ARNAND__

Radar Technician: __MASCARO__

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

Radar Computer _____UP_____

Lower Fuselage (LF) Antenna _____UP_____

Tail (TA) Antenna _____UP_____

Radar Post flight Summary

Significant down time:

Radar LF _____

Radar TA _____

Other Problems:

HRD Radar Event Log

Flight ID 20160828I1 Aircraft N43
Radar Scientist ARNANE Radar Technician MASCARO

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

Time (HHMMSS)	Event

Doppler Wind parameters

Invest too complicated to fill the form below.

| Flight ID: 20160828I1 | 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)