Radar Scientist

Flight ID 20160830I2 **Storm** TD 9 **Radar Scientist** ANNAN S

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: 20160830I2

Aircraft Number: N43

Radar Scientist: AWNANE

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:

No

HRD Radar Event Log

Flight ID 20160830I2 **Aircraft** N43
Radar Scientist ANANAS **Radar Technician** MASCARO

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

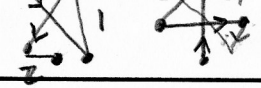
Time (HHMMSS)	Event

Doppler Wind parameters

Flight ID: 20160830I2 | **Doppler flight-leg notes (for use in automatic QC and analysis)** | **Scientist:** AANANE

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)
170700	180840	320	4	174120	24 20.0	87 3.0	NW	SE			
18:46:15	194501	320	4	19:17:25	24. 19.5	87 20.2	NE	SW			
20:01:15	20:40:30	320	4	20:21:10	24° 17'	87° 15'	S	N			
21:12:00	22:09:37	320	4	21:42:15	24° 14.3'	87° 18.7'	W	E			
22:09:37	22:35:50	320	4	23:03:50	24° 10.9'	87° 59.5'	E	SE			
22:35:50	23:32:38	320	4	23:03:50	24° 10.9'	87° 59.5'	SE	NW			

24.0 87.2



Doppler Wind parameters

Flight ID: 20160830I2

Doppler flight-leg notes (for use in automatic QC and analysis)

Scientist: Reason

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)	
1 170706	180755	290	6	174031	24 20	87 06	140	140	245	5	Y	
	184520											
2 184623	194411	290	6	191601	24 22	87 14	225	225	245	5	Y	
	200053											
3 200139	204009	290	6	202017	24 17	8715	0	0	245	5	Y	
	211031											
4 211148	220958	290	6	214051	24 14	87 26	90	90	245	5	Y	J.Z.
	223531											
5 223601	233144	290	6	230501	24 11	8740	315	315	245	5	Y	J.Z.