

Radar Scientist

Flight ID 20160829I2 Storm TD09 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: 20160829I2

Aircraft Number: N43

Radar Scientist: ANN ANLE

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 _____

Radar TA _____

Other Problems:

2.5kft



Doppler Wind parameters

0709A CYCLONE



Flight ID: 20160829 IZ 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)
180600	185828	280	6	184356	23 47	84 29	125	135	245	5	Y
				hunting...							
Note: radar sync closed											
	192342			easier hunt							
192439	202010	280	6	194658	23 54	84 33	220	225	245	5	Y
	203657			extrapolate using motion							
203725	211931	290	4	205500	23 55	84 37	0	0	245	5	Y*
	214955			extrapolate using motion							
215744	224156	290	4	222000	23 56	84 41	80	90	245	5	N
	231915										
231931	240558	290	4	234200	23 57	84 45	0	0	245	5	Y
									<u>Full disk issue</u> 100%		

*issue w/ atRP.py ... restart etc.
give us only small transfer