

Radar Scientist

Flight ID 20140824I1 Storm Cristbal Radar Scientist Aberson/Gamache

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.

Doppler Wind parameters

Flight ID:				Doppler flight-leg notes (for use in automatic QC and analysis)				Scientist:			
Leg Start Time	Leg End Time	Storm Motion		Center Fix			Inbound track	Outbound track	Max Radius Default = 245	Horz. Res Default = 5	Sent ?
				Time	Latitude	Longitude					
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	Degrees	Degrees	(km)	(km)	(Y/N)
				17:47:50	24 12	72 46					
				19:33:50	24 24	72 52	90	90	245	5	Manual to 00m
^m 193817	^{out} 203120	340	06	20:07:59	24 23	72 50					
	^{downwind} 203120			21:17:10	24 32	72 57					
^m 205524	^{out} 222100	275	02	21:53:46	24 24	72 56	210	210	245	5	Y
	^{downwind} 222100			23:08:20	24 31	73 05					
^m 225000	^{out} 234925	230	07	23:19:43	24 17	73 05	330	330	245	5	

1001 mb
AF: 42 kt SFMR
39 kt FL

999 mb X
AF: 24 kt SFMR
44 kt FL

999 mb
31 kt SFMR
38 kt FL

999 mb X
AE: 31 kt SFMR
44 kt FL

999 mb
35 kt SFMR
45 kt FL

997 mb X
AF: 35 kt SFMR
51 kt FL

999 mb
45 kt SFMR
45 kt FL