1704A Cristobal

Radar Scientist

Flight ID_____ **Storm**_____ **Radar Scientist**_____

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: 20140826I1

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

Scientist: Aberson / Gamache

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)	
192627	195?			17:02:20	27 55	71 24	90					AF 989 mb 54 kt SFMR 79 kt FL
in 192627	out 202420	035	14	19:56:54	28 37	71 27	90	90				986 mb 60 kt SFMR 75 kt FL
downwind 202420	204750											
in 204750	out 213930	010	24	21:12:01	29 07	71 23	210/225	210/225	210			986 mb 47 kt SFMR 75 kt FL
downwind 213930	220645											
in 220645	center 223130				29 10 approximate	71 17	330/310	—				
center 223130	out 224130						100	—				
downwind 224130	224700											
in 224700	out 234100	345	12	23:00:44	29 27	71 31	250	330				983 mb 70 kt SFMR 85 kt FL

305 mm/h x 5 m x 1 h / 60 m