Radar Scientist

Flight ID 140917h1   **Storm** Edouard   **Radar Scientist** Dunion/kalina

    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: 140917h1				Doppler flight-leg notes (for use in automatic QC and analysis)				Scientist: Dunion			
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)
1258z	1340z	35	17	1314z	36 06'	53 59'	15	30			
1344	1414z							250°	downwind		
NW pt orbit for coyote			several	orbits following	coyote	Inbound					
	↓↓										
	1618z						130				
1617z	1708z	45	21	1638z	36 54'	52 51'	90	180			
W-	ctr-S-	downwind									