Radar Scientist

Flight ID 16 0923 I1 **Storm** Karl **Radar Scientist** Reasor

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: 160923I1			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 SE→NW 075400	084330	315	14	082228 082228	27 48	64 57	315	315	245	5	Y
	DWL 091149										
② SW→NE 091346	095731	315	14	093438	27 54	65 08	45	45	245	5	Y
	DWL 101611										
③ N→S 101730	105800	315	14	104212	27 53	64 56	180	180	245	5	Y
	DWL 111849										
④ E→W 111900	115700	315	14	113444	28 04	64 50	270	270	245	5	Y
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