

## 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.

1984 mid pt slide

1753 T/O

## 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)
				17:34:30	24 59	72 38					
				18:47:40	25 02	72 39					
193900	210700	085	02	20:10:02	25 02	72 30	90	90	29.4		
210700	212845										
212845	223015	105	09	21:59:32	24 57	72 15	210	210			
223015	225905										
225905	235300	085	10	23:28:14	25 01	71 57	330	330			

AF 995mb  
51kt SFMR  
65kt FLAF 993mb  
28kt SFMR  
65kt FL992mb  
30kt SFMR  
36kt FL992mb  
38kt SFMR  
51kt FL990mb  
71kt SFMR  
73kt FL