Radar Scientist

Flight ID 20150824 Il Storm T.S. Danny Radar Sc	ientist <u>B.</u> Kl	012
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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.

HRD Radar Scientist Check List

Flight ID: _ 20150824 I 1
Aircraft Number: NOAA 43
Radar Scientist: Klotz
Radar Technician: Marcar 0

Component Systems Status (Up ↑, Down ↓, Not Available N/A, Not Used O):

Radar Computer	
Lower Fuselage (LF) Antenna	<u> </u>
Tail (TA) Antenna	

Time correction between LF radar time and digital time: ____

TA Radar Parameters:

(Single/Dual) PRF	LIOD F/AST (Y/N)	Rotation Rate RPM
Sweeps/File	Record 2 nd Trip (Y/N)	(Circle appropriate status)

Radar Post flight Summary

Significant down time:

Radar LF _____

Radar TA _____

Other Problems:

HRD Radar Event Log

 Flight ID_2050824±1
 Aircraft
 N0AA 43

 Radar Scientist
 Klotz
 Radar Technician
 Marcaro

Time (HHMMSS)	Event
055000	Radar on Just after center, deviated off track - to east, not M Radar turned off (both) End flight
0648	Just after center, deviated of track - to east, not A
0923	Radar turned off (both)
0943	End flight
and a state	
	1
- DAK	

(Include down time and times of when recording ended and was restarted)

Flight ID:				Doppler flight-leg notes (for use in automatic QC and analysis)				Scient	Scientist:			
Leg Start Time	Leg End Time	Storm	Motion	Time	Center Fix Latitude	Longitude	Inbound track	Outbound track	Max Radius Default = 245	Horz. Res Default = 5	Sent ?	
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	Degrees	Degrees	(km)	(km)	(Y/N)	
064830	X5:7 30:7	270	13	0717	15°/17'	60°/9'	50°	90° ~	245	5		
080200	XS: 0835	276	13	0819	15°/481	60°/32'	180°	2 80-13	• 245	5		
083700	¥5.	270	13	X	X	X	X	X				
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Doppler Wind parameters