

**Radar Scientist**

Flight ID 2014082311 Storm SOYAN/ove Radar Scientist Sellwood

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: 20140823I1

Aircraft Number: NOAA43

Radar Scientist: Sellwood

Radar Technician: Dana

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

Radar Computer ↑

Lower Fuselage (LF) Antenna ↑

Tail (TA) Antenna ↑

Time correction between LF radar time and digital time: none

TA Radar Parameters:

(Single/Dual) PRF \_\_\_\_\_ F/AST (Y/N) Rotation Rate \_\_\_\_\_ RPM

Sweeps/File \_\_\_\_\_ Record 2<sup>nd</sup> Trip (Y/N) (Circle appropriate status)

**Radar Post flight Summary**

Significant down time:

Radar LF \_\_\_\_\_

Radar TA \_\_\_\_\_

**Other Problems:**

ftp problems need to run 2<sup>nd</sup> & 3<sup>rd</sup> jobs & analyses on ac and ftp manually to John &

## 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)
201048	210100	310	11	203612	21/45	72/13	90	90	165		
210100	2125						330				
2125	2214			214650	22/00	72/00	210	210	105		
2244	2334			231058	21/53	72/09	330				

PWCEG