## Radar Scientist

Flight ID_//_	303H1 Storm Karen Radar Scientist Hazettan / Sellwood
on his/her as	oard radar scientist is responsible for data collection from all radar systems signed aircraft. Detailed operational procedures and checklists are contained or's manual. General supplementary procedures follow. (Check off or initial.)
Preflight	
1.	Determine status of equipment and report results to lead project scientist (LPS).
	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	
<u></u>	Monitor the Tail Doppler Radar function regularly, using the realtime TDR display, to make sure the Doppler radar is scanning and working normally.
	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: 20131067 H 1
Aircraft Number: NOAA42
Radar Scientist: Herelten / Sellwood
Radar Technician: Bosko
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:
TA Radar Parameters:
(Single/Dual) PRF 2/00 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:

To 1805

## **HRD Radar Event Log**

Flight ID <u>2013/003#1</u>	Aircraft NOAAYA	
Radar Scientist Harelan	Sellwood_Radar Technician	

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

Time (HHMMSS)	Event
184200	Start radar
194300	Start of leg 1
200600	Centur Fix 1
202600	End leg 1, Begin Dounvind 1
208545	End Downwind 1 Start Lig 2
2123 15	conter FIX 2
214800	End leg 2 Bigin Downwind 2
220630	End Downwind'z, start leg 3
223100	Center Fix 3
225500	End Lig 3, Begin Downwind 3
232800	End Downwind 3, Start Ceg 4.
235100	contr Fixy
241450	End leg 4
012500	Rudar Ended
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**Doppler Wind parameters** 

Flight ID:	131003H1			Doppler flight-leg notes (for use in automatic QC and analysis)				Scienti	Scientist: Sellwood/Hazulton			
Leg Start Time	Leg End Time	Storm Motion		Center Fix		Inbound	Outbound	Max Radius (km)	Horz. Res (km)	Sent ?		
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	track	track	Default = 245	Default = 5	(Y/N)	
194300	202600/	330	10	200600	23°13′	85° 28	180°	180%	245	5	Y	
203600	214800/	329	2	212315	યુ°યા'	58°34	270°	268°				
210630	232800	330	8	223100	13.54	88044	45°	470	245	5		
232800	001450	316	9	233100	13°38	88°51'	1340	135°				
	4											