## Radar Scientist

Flight ID_	14080411 Storm Hum Bertha Radar Scientist Reger 5
on his/her	a-board radar scientist is responsible for data collection from all radar systems assigned aircraft. Detailed operational procedures and checklists are contained rator'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	
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	State State Congress of State
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:
Aircraft Number: NYZRF
Radar Scientist:
Aircraft Number: NYZRF  Radar Scientist: Rosko  Radar Technician:
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 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:

## HRD Radar Event Log

Radar Scientist	Radar Technician								
(Inc	clude down time and times of when recording ended and was restarted)								
Time (HHMMSS)	Event								
1919	Stort inbound leg								
3161 1 6		mulij							
- E 181									
	ter for the base of organizations								
	se d'attricred.								

RLI

(2 mpfsE) drop 232600 NLD drop 2346 11 (ayouall SE)

Doppler Wind parameters

28.1

	Flight ID:				Doppler flight-leg notes (for use in automatic QC and analysis)					Scientist: Roges			
	Leg Start Time	Leg End Time	Storm	Motion	Center Fix			Inbound	Outbound	Max Radius	Horz. Res	Sent	
			Degrees	Knots	Time HHMMSS	Latitude (Deg/Min)	Longitude (Deg/Min)	track	track	(km) Default =	(km)  Default = 5	? (Y/N)	
-	191900	200956	360	COHC)	194750	79°9	7334	0	0	245	Dolum, C	(,	
1	200956	20208											
	204300	213055	(NG1)	(18)	210712	2933	7332	90	90				
		215105											
	215200	225115	(nau)	(vau) 18	2228	79.58°	73 29'	225	225				
		232140											2
	232600	601303	(NO1)	(nau) 20	23 5017	826	7324	315	315				
						#				J			X
													1
													in.

