## **Radar Scientist**

		Radar Scientist
Flight	1D 20	1508271 Storm FRIKA Radar Scientist Klotz
on his	her ass	pard radar scientist is responsible for data collection from all radar systems igned aircraft. Detailed operational procedures and checklists are contained r's manual. General supplementary procedures follow. (Check off or initial.)
Preflig	ght	
	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-Fli	ght	
(1)	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 f	light	
	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: 20150827±1
Aircraft Number: NOAA 43
Radar Scientist: Klotz
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 $\frac{\partial (OD)}{\partial D}$ 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**

Flight ID_2015082711 Aircraft	NOAA 43	1	
Radar Scientist Klot &	Radar Technician_	Mascaro	

(Include down time and times of when recording ended and was restarted) Time **Event** (HHMMSS)

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**Doppler Wind parameters** 

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Flight ID: 20150827±1				Doppler flight-leg notes (for use in automatic QC and analysis)				Scientist: Klotz			
Leg Start Time	Leg End Time	Storm	Motion	Time	Center Fix  Latitude Lor	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)
0519	0607	280	14	054239	16°/32'	60° 40'	360°	\$0°	245	5	γ
0607	X5 6710	280	14	0630	16°/30'	60°551	\$30°	266'	245	5	7
0712	X5:8759 30:0815	280	14	073 <b>5</b>	16°/32'	64 0 10	900	90°	245	5	Y
0815	XS: 0853 3D: 0925	280	14	0839	(6) 34,	64 30'	235"	2350	245	5	Y
0925	X511003	280	14	0944	16°/34'	61"20'	3108	3100	245	5	À
1004	Xs:	280	14	1030	16/15	61853	150°	150°	245	5	
2795929					1						
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		172									