## **Radar Scientist**

Flight ID 20	140826#) Storm Cristobal Radar Scientist Marks
on his/her ass	poard 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).
<u></u>	Confirm mission and pattern selection from the LPS.
<u>√</u> 3.	Select the operational mode for radar system(s) after consultation with the LPS.
<u> 4</u> .	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.
	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.
<u>/</u> 3.	Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.
<u>4.</u>	Debrief at the base of operations.
	Determine the status of future missions and notify HFP Director as to where you can be contacted.

## **HRD Radar Scientist Check List**

Flight ID: 20140826H1
Aircraft Number 142R F
Radar Scientist: Marks
Radar Technician: Lynch / 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 2160 F/AST (VN) Rotation Rate 10 RPM
Sweeps/File Record 2 <sup>nd</sup> Trip (YN) (Circle appropriate status)
Radar Post flight Summary
Significant down time:
Radar LF
Radar TA
Other Problems:

## HRD Radar Event Log

light ID 201908 OF Aircraft Process Radar Technician Lynch Bosco (Include down time and times of when recording ended and was restarted)							
Time (HHMMSS)	Event						
0808-0810	twice as we went through sevent						
	twice as we went through eyenta not sure if data was lost						
	. ^ -						
08(6-	Bas of Stantifarm rain						
	(2010(0)						

Analyses

Doppler Wind parameters

Flight ID: 20140826H1				Doppler flight-leg notes (for use in automatic QC and analysis)				Scientist: Marks			
Leg Start Time	Leg End Time	Storm	Motion	Center Fix Time Latitude Longitude		Inbound track	Outbound track	Max Radius Default = 245	Horz. Res	Sent ?	
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	Degrees	Degrees	(km)	(km)	(Y/N)
0731	0829	010	06	08 06 54	26/04	71/53	090	090	294	4	Y
0629	2855										•
0855	0956	010	06	0926	26/3	71/57	210	210	294	6	4
0956											
1034	1128	010	26	1(01	He 33	72/10	330	330		6	Ç,
				glite	h at	10.16	ndate	e coul	sed 31		gs,
				50	WE IT	did it	start on 3rd	andy:	934 - s	0 40	
				6.0		J		7			
										Mems	
		0									