Radar Scientist

Flight ID 2014 082411 Storm	TO#4	_ Radar Scientist _ Jun	zhang
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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.)

Prefligh	ht	
	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-Flig	ht	
-	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 fli	ight	
	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.
1	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

Fli	ght ID: 20/40824H/
	rcraft Number:4-2
Ra	dar Scientist: Jun zhang
Ra	ndar Scientist: Jun zhang dar Technician: Terry Lymh
Component Systems State	tus (Up ↑, Down ↓, Not Available N/A, Not Used O):
Radar Computer	3. Estet the operational mode corrector systems
Lower Fuselage (LF)	Antenna
Tail (TA) Antenna _	the state of the s
Time corn	rection between LF radar time and digital time:
TA Radar Parameters:	
(Single/Dual) PRF _	F/AST (Y/N) Rotation Rate RPM
Sweeps/File	Record 2 nd Trip (Y/N) (Circle appropriate status)
	Radar Post flight Summary
Significant down time:	Great set 1.29 or equipment output set up to a
Radar LF	to the base of agent and a landed 4
Radar TA	op. Ostrom od the subscribing. See and one
Other Problems:	

HRD Radar Event Log

Flight ID	Aircraft _		
Radar Scientist		Radar Technician	

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

Time (HHMMSS)	Event
0.800	7542 2254 IP
0819	77 35 2256 midgon drop
0838	trying to find a center
0843	2247 7254 censer drap
0859	drop midform
0854	seeing rader reflectively Echo going up to her
	going through the convertise vegion
9:11	Spride end point or trying fine the ligh until
	released within convection
	ground person couldn't get ou x char whely
	because the ftp server is off the primary
	ftp
0936	Soude - end of dominined leg
	domain Size 200 km
0913	Soule several IX - Tailor Several Togerses
	mid pour dus
10:003	Center 2254 7238 drap - SWP center
	drop - SWP censer
1019	sonde modport
1032	dusps - end of custs selethan -
11701	drop - end of down wind log
1/2/7	soude mid sonn
	Joing Almayh convection - convection area
11:30	gonde - centar! - fort hope unel

11:50 - soule - modpoint [2:00 - soul - 2457, 7346 - **Doppler Wind parameters**

Flight ID:	Flight ID:				Doppler flight-leg notes (for use in automatic QC and analysis)				Scientist:			
Leg Start Time	Leg End Time	Storm M	Motion	Time	Center Fix Latitude	Longitude	Inbound track	Outbound track	Max Radius	Horz. Res Default = 5	Sent	
HHMMSS	ннммѕѕ	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	Degrees	Degrees	Default = 245 (km)	(km)	(Y/N)	
080416	0915	34	8	0843	22 47	7254	90	90				
0804	0937						90	90				
0937	[033	325	8	1003	2254	7238	210	210	1			
ag37	MEA						210	210				
100/	12:02	325	8	1135	23/4	7238	330					
10	[n]						330			10		
4.	9 400	STATE OF THE PARTY.				1 3 3			Section 1.	13131		
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