## Radar Scientist

	Radar Scientist
Flight II	20160803IIStorm Earl Radar Scientist Hunchitstophersen
on his/he	on-board radar scientist is responsible for data collection from all radar systems or assigned aircraft. Detailed operational procedures and checklists are contained erator's manual. General supplementary procedures follow. (Check off or initial.)
Prefligh	
1	Determine status of equipment and report results to lead project scientist (LPS).
2	
3	Select the operational mode for radar system(s) after consultation with the LPS.
4	Complete the appropriate preflight check list.
In-Fligh	
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 flig	nt en la companya de
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**

Fligh	nt ID: 20160803	311	
Airc	raft Number: <u>N4</u>	3RF	
Rada	nr Scientist: Hun nr Technician: Li	Christophersen	1
Rada	ar Technician:	chard	
Component Systems Status	(Up ↑, Down ↓, Not	t Available N/A, Not	Used <b>O</b> ):
Radar Computer	ATT AND THE STATE OF THE STATE		
Lower Fuselage (LF) A	ntenna		
Tail (TA) Antenna			
Time correc ΓA Radar Parameters:	tion between LF rada	r time and digital tim	e:
(Single/Dual) PRF	F/AST (Y/N)	Rotation Rate	RPM
Sweeps/File F	Record 2 <sup>nd</sup> Trip (Y/N)	(Circle appropriate s	status)
	Radar Post flight	Summary	
Significant down time:			
Radar LF			
Radar TA			
Other Problems:			

## HRD Radar Event Log

Flight ID 20160803 I Aircraft N432F	0	
Radar Scientist Hui Christophersen Radar Technician_	Richard	

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

Time (HHMMSS)	Event						
070641	Initial Rodar setup completes. Everything woks good						
084630	First drop (Inbound starts)						
085732	drop # 2						
092962	chop#4 (Ovorbound ends						
See Her Miller							

**Doppler Wind parameters** 

Flight ID:	20160803	3I		Doppler flight-leg notes (for use in automatic QC and analysis)			Scient	Scientist: Hui Christopherson			
Leg Start Time	Leg End Time	Storm	Motion		Center Fix		Inbound track	Outbound track	Max Radius	Horz. Res	Sent
HHMMSS	HHMMSS	Degrees	Knots	Time HHMMSS	Latitude (Deg/Min)	Longitude (Deg/Min)	Degrees	Degrees	Default = 245 (km)	(km)	(Y/N)
084630	092402	Z80	12	090244	16.161	83.47/	150	150			
094318	102500	270	12	100530	16,16	84.01	27.0	270			
104843	112020	275	10	105839	16.18	84.08/	30	30			
									No. 10	10	