

Radar Scientist Form

(Updated 31 May 2019)

Flight ID 20190903 H1 Storm Dorian

HRD Radar Scientist (Aircraft/Ground) JASON DUNION / PAUL REASON

AOC Radar Operator _____

The aircraft radar scientist is responsible for data collection from all radar systems on his/her assigned aircraft, working with the ground radar scientist to ensure successful transmission of all radar products from the aircraft in a timely manner, and contributing to mission science by communicating real-time radar products to the LPS. Specific responsibilities are detailed in the *Aircraft Radar Support Guide* located on the radar workstation desktop and in the flight bag.

§ Pre-flight Notes.

Indicate below any existing radar instrumentation issues, pre-flight radar repairs or other instrumentation issues (e.g., GPS swapout) that might impact radar data collection or analyses. If none, then simply write NONE below.

§ Pre-flight Setup with Ground Radar Scientist.

Preferably before the planeside briefing, establish Xchat communication with the ground radar scientist on #radar. Check off the following tasks.

- Communicate any pre-flight issues noted above.
- Confirm latest flight pattern. Sketch to the right.
Indicate legs constituting proposed analyses.
- Go through Steps 1-3 of Aircraft Radar Support Guide.

§ In-flight Setup with Ground Radar Scientist.

After radar recording has begun, reestablish Xchat communication with the ground radar scientist on #radar. Check off the following tasks.

- Go through Steps 4-7 of Aircraft Radar Support Guide.

Indicate below any issues identified during Steps 4-7, in particular any radar instrumentation issues evident in the radar displays. If none, then simply write NONE below.

§ In-pattern Radar and Weather Event Log.

Indicate below any radar down times or significant weather observations that might be helpful for interpreting radar analyses (e.g., flight through sparse shallow convection).

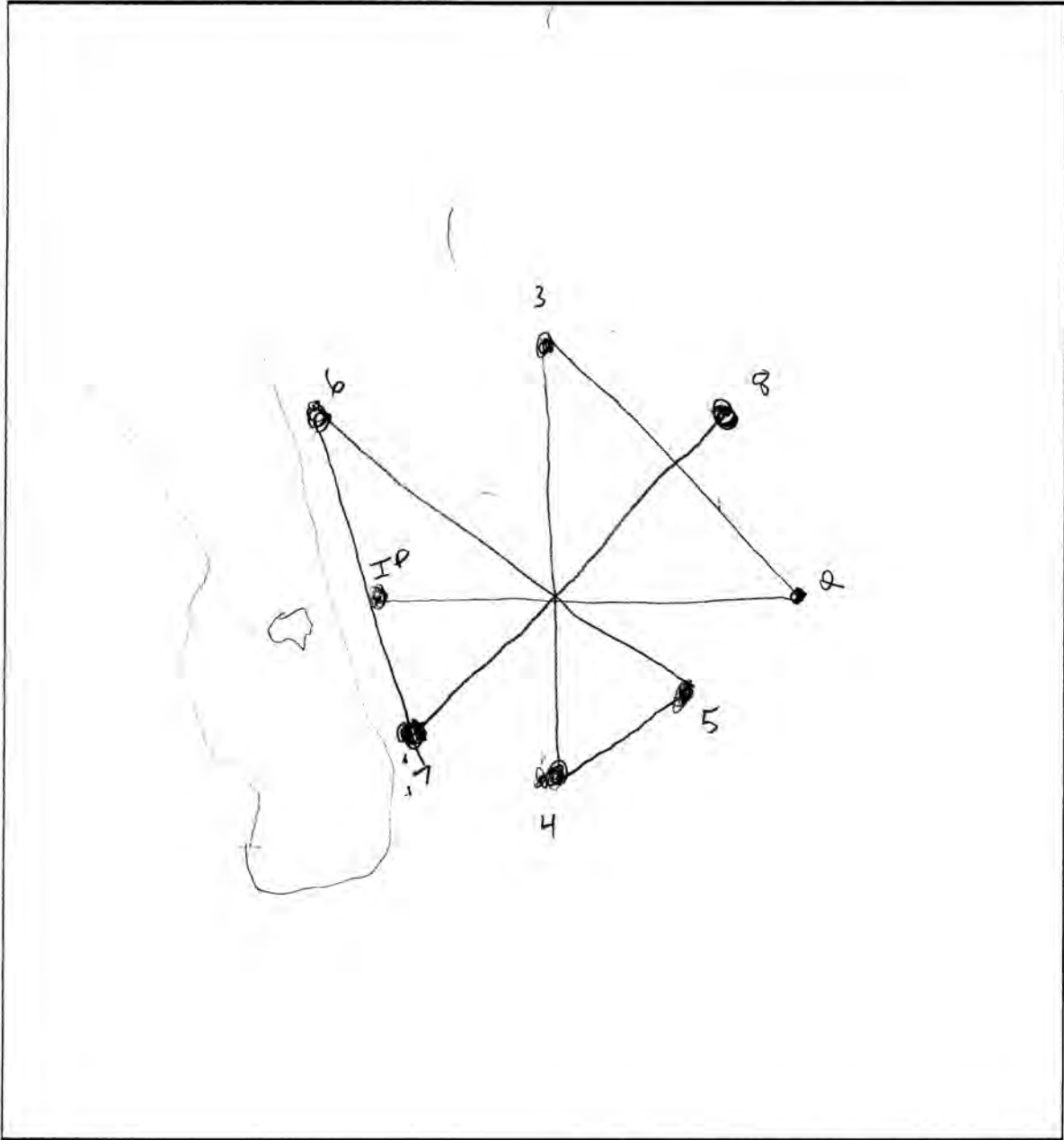
Time (HHMMSS)	Event (Radar or Weather)
0806	Data was late getting TDR UP, circling at IP for a few min to give time
0835	'42's non-fix ctr of 26.95N 78.39W was confirmed by AF at 0847... no need to reprocess IP-2 leg w/ new ctr
	IP-ctr - straight radial, Ctr-2, jagged south- (grain of salt" V _r)
093607	planulew WS: missing winds N eyewall due to jogs on ctr WP2 leg ↳ Jason D took photos of both.
1348	begin ERC module S-SE-E-NE-N R~35nm
1412	end ERC module (N)

§ End-of-Flight Shutdown with Ground Radar Scientist.

Once the aircraft exits the system, reestablish Xchat communication with the ground radar scientist on #radar. Check off the following tasks.

- Go through "NEAR END OF FLIGHT" Steps 1-5 of Aircraft Radar Support Guide.

If you recorded 'N' for Analysis Sent at any point during the flight, please detail the situation below. If there are any other *mission-critical* issues pertaining to the radar systems not documented above, please note them here. If none, then simply write NONE below.



Jobfile Parameters for Automated TDR Analysis

FLIGHT ID: 190903H1				Aircraft Radar Scientist: JASON DUNION										
Leg Start Time	Leg End Time	Storm Motion		Center Fix			Inbound Track	Outbound Track	Event Type	Max Radius if not 250 km	Horiz. spacing if not 2 km	Accept. for Graphics? (Y/N)	Analysis Sent? (Y/N)	
				Time	Latitude	Longitude								
HHMMSS	HHMMSS	Deg	Kts	HHMMSS	Decimal Deg	Decimal Deg	Azimuth (deg)	Azimuth (deg)	IN/TS/H/MH					
IP-Gr	0815	0900	0	0	0835	26.95	78.39	270	090	MH				
	E-NE downwind													
3-4	0937	1032	0	0	1003	27.01	78.37	360	190	MH				
	S-SW downwind													
5-6	1108	1150	0	0				135	315	MH				
	NW-SW downwind													
7-8	1221	1303	0	0	1237	27.14	78.48	225	45	MH				
								4						
Xtra Science	NE-NNE downwind													
	1313	1348						40	180					
	NNE-SSW													
S to N arc between bands at R ~ 35 nmi	1348	1412						180-	135-90-45-	360				

↳ Paul Reaser ran a bit past 1412. to collect extra data