

Radarscientist Form

(Updated 31 May 2019)

Flight ID 20190916H1 Storm Humberto

HRD Radar Scientist (Aircraft/Ground) Alvey / ~~Warncke~~ Gamache (+ Rear for

AOC Radar Operator Warncke / McAllister / Nachur

onboard subm
(eg 3)

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.

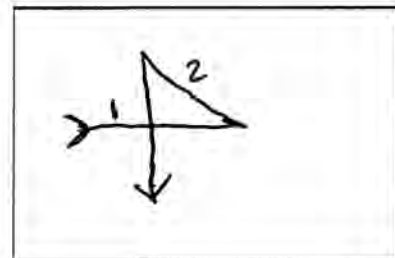
Indicate below any existing radar instrumentation issues, pre-flight radar repairs or other instrumentation issues (e.g., GPS swapout) that might impact radar data collection or analyses. If none, then simply write NONE below.

None

§ 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.

None

§ 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)
185300	Large stratiform region
192500	Exited rainband (strat. w/ embedded conv) and now flying ^(near) over shallow - mdt convection
195900	Large stratiform w/ occasional embedded convection; was more cellular on last dog leg
2020	eyewall SAK open a bit to S/E; most turbulence on N side (mdt-)
204730	Lots of nice shallow-mdt convection ^(2-4 km ht) to left & right
225600	nice shall-mdt conv-stew 2-4.5 km tops; mdt - turbulence; not much returns on MMR

§ 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.

None

Jobfile Parameters for Automated TDR Analysis

FLIGHT ID:				Aircraft Radar Scientist:									
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?	Analysis Sent?
				Time	Latitude	Longitude							
HHMMSS	HHMMSS	Deg	Kts	HHMMSS	Decimal Deg	Decimal Deg	Azimuth (deg)	Azimuth (deg)	IN/TS/H/MH			(Y/N)	(Y/N)
184630	192400	070	06	190749	30.15	76.07	90	90	H			y	y
	195655						-		H				
195655	204145	070	06	201658	30.22	75.93	180	180	H			y	y
204230	211330	070	06	210814	30.23	75.83	355	355	H			n	n
211440	213200	-	0	211943	30.25	75.85	180	360	H			n	n
~ 213700	215510	-	0	214538	30.24	75.81	135	~315	H			n	n
~ 215700	221015	-	0	220207	30.17	75.8	135	20	H			n	n
221145	222930	090	8	221921	30.17	75.71	190	350	H			n	n
223130	230330	090	8	223904	30.2	75.64	180	225	H			n	n

Ocean winds
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