

# Radarscientist Form

(Updated 31 May 2019)

Flight ID 20190711H2 Storm TS Barry

HRD Radar Scientist (Aircraft/Ground) Reason N. Griffin

AOC Radar Operator Mike Mascaro

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.

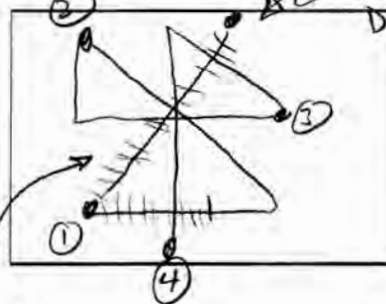
Indicate below any existing radar instrumentation issues, pre-flight radar repairs or other instrumentation issues (e.g., GPS swapout) that might impact radar data collection or analyses. If none, then simply write NONE below.

None except for bogus feature beneath aircraft in TDR display which leads to noise in analysis along flight track.

## § 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.



No master files

### § 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
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### § 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)
1st pass	very spotty cells (shallow), blue skies above, little bit of congestus
	SW portion → lots of moderate convection (had to descend to 10kft)
~2231	TDR brought down. There were no Master files showing up in 20190711#2
	Doesn't appear any product raw for Master before 223400 UTC
2nd pass	lots of bumps 1st half → lots of scatterers



### § 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.

See Events log for mission-critical issue.

Radar sync went to a command prompt twice during the flight (took a pic of error message for reference). Solution was to restart it.

### Jobfile Parameters for Automated TDR Analysis

		FLIGHT ID: 20190711H2						Aircraft Radar Scientist: Reason					
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			(Y/N)	(Y/N)
212500	220700	275	4	214400	27.8	89.3	225	225	TS	-	-	Y	N
220800													
223400													
224400	233200	275	4	230400	27.55	89.02	315	315	TS	-	-	Y	Y
233200													
234800	243000	275	4	240900	27.77	89.28	90	90	TS	-	-	Y	Y
243000													
245800	254200	275	4	251800	27.7	89.3	180	180	TS	-	-	Y	Y

}

No MA data recorded