

# Radar Scientist Form

(Updated 31 May 2019)

Flight ID 20190818H1 Storm EP95

HRD Radar Scientist (Aircraft/Ground) ZAWISLAK / REASOR

AOC Radar Operator 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

## § 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.

ALL CHECKED

## § 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.

MIKE MASCARO TRIED TO FIX THE RSYNC PROGRAM ON THE MARRIED WORKSTATION, BUT COULDN'T GET THROUGH OUR INITIAL S.O. WE'LL LIKELY HAVE TO CONTINUE TO PUSH THROUGH MANUALLY ON RADARSYNC ISSUE TO GET THE FILES

## § 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)
	ON OUR INITIAL INBOUND SEEING SCATTERED MODERATELY DEEP TO EVEN A FEW DEEP CONVECTIVE CLOUDS TO OUR SOUTH
	WENT THROUGH SOME CLOUD BUT MOSTLY BELOW OUR ALTITUDE WITH PAPER CLOUD ~ 10 km Echo TOP HEIGHT → TOOK PHOTOS
	CLOSER TO THE CRT → MORE STRATIFORM ANVIL, LOT OF CIRUS AND SOME SHALLOW CLOUD DECS
	NOW OUTBOUND. HEADING INTO SUSPENSE CONDITIONS - ANVIL ABOVE SOME SHALLOW CLOUD
	NOT MUCH OUT THERE. NOT MUCH CLOUD BELOW, BUT THERE IS A LOT OF CIRUS ON HERE. LOOKS LIKE SOME MODERATE CONVECTION W/ST OUR EP
	PLACING UP A BIT TO OUR SOUTH AT 1508Z
1530Z	SOME DEEP DEEP CONVECTION ON THE DOWNWIND. GOOD RAINFALL CLEARING IN LOTS OF SHALLOW CLOUDS BUT AND SOME MID LEVEL, BUT THERE IS ECHO
1606Z	CIRUS ABOVE, BUT NOTHING BELOW. JUST VERY WEAK CLOUD ECHO.
	NOT MUCH SUBTERRAN CONTINUES TO JUST BE CIRUS OVERHEAD
	NOTHING ELSE AROUND. VERY THIN FOR CLOUD OVERWIND
1705Z	DEFINITE GETTING SOME GOOD ECHO. UP TO 8-10 km IN STRATIFORM LOOKS LIKE NEW CONVECTION DEVELOPING ON THE "WINDY" SIDE OF THE "CIRCULATION". DECENT COVERAGE OF ECHO THOUGH FOR EXTENSIVE AREA
1714Z	STILL IN A BAND OF STRATIFORM → GOOD ECHO COVERAGE IN SECTORS ECHO TOP UP TO 10 km.
	NEARING MIDPOINT → STARTING TO SEE TO THE SW BUT STILL LIGHT STRATIFORM ECHO THICK CLOUD DECS ON TOP OF THE THOUGH
	A LOT OF STRATIFORM ANVIL.

INBOUND IP TO CRT 090°

CTR #1 92W/12N

OUTBOUND CRT TO 175° TO WE

FIRST DOWNWIND

INBOUND WP3 TO CRT #2

OUTBOUND CRT TO WP4

DOWNWIND LEG FROM PT4 TO P

NOW INBOUND TO "CTR" #3 FROM NW.

1730Z

2 CTR #3 92W/12.5N

1741Z

SO NOW OUTBOUND. SCATTERED CLOUDS BELOW US, BROKEN ANVIL ABOVE, STARTING CONGESTION. IS PRETTY CLEAR.

OUTBOUND TO LAST WP FROM CRT

1802Z

STILL NOTHING! JUST CIRUS ABOVE FOR PART OF LEG. RUCED ANALYSIS EARLY