

GOES-14 Super Rapid Scan Operations for GOES-R (SRSOR)

- GOES-14 Super Rapid Scan will be collected from [18 May – 12 June](#).
- GOES-14 is located at 105 W
- SRSOR channels include:
 - visible (0.6254 μm) at 1 km resolution
 - shortwave IR (3.8774 μm) at 4 km resolution
 - water vapor (6.5610 μm) at 4 km resolution
 - longwave IR (10.7002 μm) at 4 km resolution
 - CO₂ (13.2936 μm) at 4 km resolution
- One minute imagery collected during SRSOR for all 5 channels above



GOES-14 Imager Super-Rapid Scan Test (SRST) Schedule:

30 min
collection
period

TIME (UTC)	SCAN SECTOR	DURATION (MM:SS)
01:45:00	SRSO sector (1 min x 26 images)	26:00
02:15:00	SRSO sector (1 min x 26 images)	26:00
02:45:00	SRSO sector (1 min x 26 images)	26:00
03:15:00	SRSO sector (1 min x 26 images)	26:00
03:45:00	SRSO sector (1 min x 26 images)	26:00
04:15:00	SRSO sector (1 min x 26 images)	26:00
04:45:00	SRSO sector (1 min x 26 images)	26:00
05:15:00	SRSO sector (1 min x 26 images)	26:00
05:45:00	SRSO sector (1 min x 26 images)	26:00
06:15:00	SRSO sector (1 min x 26 images)	26:00
06:45:00	SRSO sector (1 min x 26 images)	26:00
07:13:45	Space Look Side Change	00:11
07:15:00	SRSO sector (1 min x 26 images)	26:00
07:45:00	SRSO sector (1 min x 26 images)	26:00
08:15:00	SRSO sector (1 min x 26 images)	26:00
08:45:00	SRSO sector (1 min x 26 images)	26:00
09:15:00	SRSO sector (1 min x 26 images)	26:00
09:45:00	SRSO sector (1 min x 26 images)	26:00
10:15:00	SRSO sector (1 min x 26 images)	26:00
10:45:00	SRSO sector (1 min x 26 images)	26:00
11:15:00	SRSO sector (1 min x 26 images)	26:00
11:45:00	SRSO sector (1 min x 26 images)	26:00
12:15:00	SRSO sector (1 min x 26 images)	26:00
12:45:00	SRSO sector (1 min x 26 images)	26:00
13:15:00	SRSO sector (1 min x 26 images)	26:00
13:45:00	SRSO sector (1 min x 26 images)	26:00
14:15:00	SRSO sector (1 min x 26 images)	26:00
14:45:00	SRSO sector (1 min x 26 images)	26:00
15:15:00	SRSO sector (1 min x 26 images)	26:00
15:45:00	SRSO sector (1 min x 26 images)	26:00
16:15:00	SRSO sector (1 min x 26 images)	26:00
16:45:00	SRSO sector (1 min x 26 images)	26:00
17:15:00	SRSO sector (1 min x 26 images)	26:00
17:45:00	SRSO sector (1 min x 26 images)	26:00
18:15:00**	SRSO sector (1 min x 26 images)	26:00
18:45:00	SRSO sector (1 min x 15 images)	15:00
19:00-19:15	daily housekeeping	
19:13:45	Space Look Side Change	00:11
19:15:00	SRSO sector (1 mi x 26 images)	26:00
19:45:00	SRSO sector (1 min x 26 images)	26:00
20:15:00	SRSO sector (1 min x 26 images)	26:00
20:45:00	SRSO sector (1 min x 26 images)	26:00
21:15:00	SRSO sector (1 min x 26 images)	26:00
21:45:00	SRSO sector (1 min x 26 images)	26:00
22:15:00	SRSO sector (1 min x 26 images)	26:00
22:45:00	SRSO sector (1 min x 26 images)	26:00
23:15:00	SRSO sector (1 min x 26 images)	26:00
23:45:00	SRSO sector (1 min x 26 images)	26:00
00:15:00	SRSO sector (1 min x 26 images)	26:00
00:45:00	SRSO sector (1 min x 26 images)	26:00
01:15:00	SRSO sector (1 min x 15 images)	15:00
01:30-01:45	new day housekeeping	

26 min of 1-min imagery
4 min for calibration

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- For PECAN, it is especially desirable to have SRSOR in late afternoon through the evening to cover:
 - the transition of convection from day to nighttime,
 - identification of important mesoscale convergence boundaries/cumulus cloud lines,
 - Identification of overshooting tops and undular bores, and
 - assist in nowcasting and deployment of mobile facilities.

- SRSOR collection begins at 11 UTC every day and runs for 24h

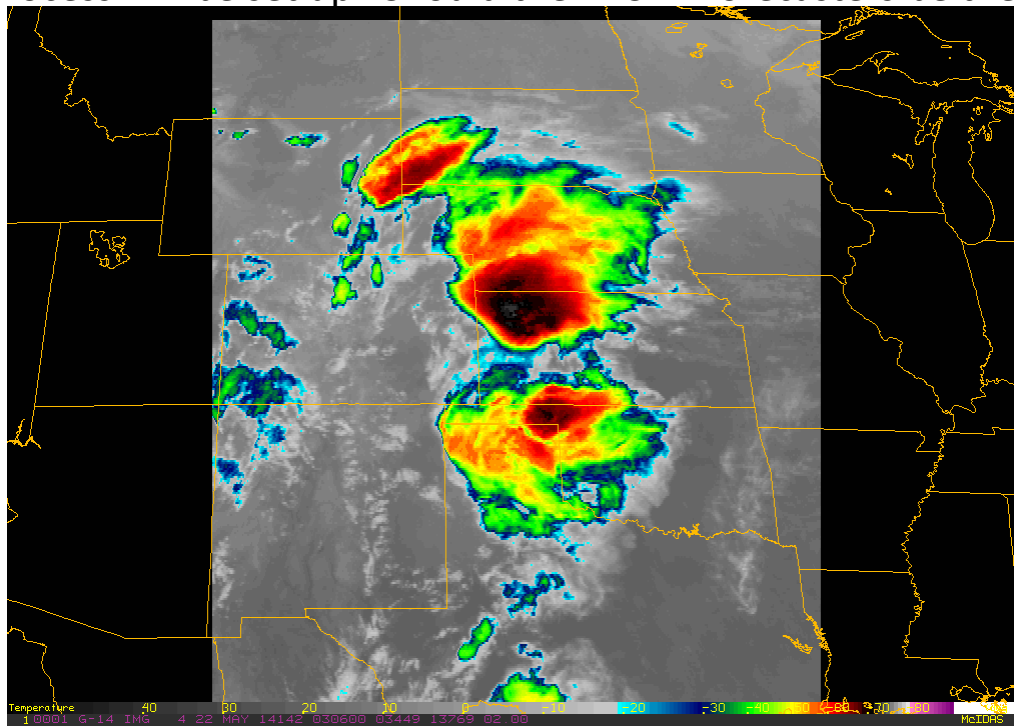
- It is understood that major tornado outbreaks occurring at some other location in the U.S. have highest priority for SRSOR collection.

- Requests must be made 24 hours in advance and preferably by noon, which equates to 1.5 days advance notice. Thus, this request would need to be made before the 3 pm daily planning meeting on the day prior to the Super Rapid Scan request.

- Daily request for Super Rapid Scan operations are to be made to:
 - Steve Goodman (steven.j.goodman@noaa.gov)
 - Tim Schmit (tims@ssec.wisc.edu)
 - Dan Lindsey (dan.Lindsey@noaa.gov)

GOES-14 Super Rapid Scan Operations for GOES-R (SRSOR)

- SRSOR can be run on successive days, so should be available for most if not all of the PECAN period.
- The rapid scan domain is pretty large, so they will decide the likely domain for severe weather each day. Unless there is a major tornado outbreak outside the PECAN domain, the PECAN domain will likely be covered most of the days.
- They just need to decide on the center point for the rapid scan **a day in advance**. This is based on the SPC Day 1 and sometimes Day 2 Severe forecast.
- PECAN folks need to determine who will interface with NOAA folks for requesting SRSOR and how this process will be set up. Should the PECAN forecasters be the contact point?



Example SRSOR image and domain from last summer

(Courtesy of Dan Lindsey)

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- Dan Lindsey will set up real-time floater loops over the area(s) of interest and provide PECAN scientists with the links. All of the links will be placed at the top of this page:
<http://rammb.cira.colostate.edu/dev/Lindsey/loops>
- Lindsey can archive the data locally and provide all of it to UCAR at the end of campaign or he can set up a real-time data feed, if preferred.
- Other SRSOR web links of interest:

Realtime SRSOR loops: <http://www.ssec.wisc.edu/data/1min>

Images overlaid on Google Maps: <http://wms.ssec.wisc.edu/s/Ch5z>

SRSOR Collection schedule: <http://www.ospo.noaa.gov/Operations/GOES/schedules.html>

GOES-14: http://cimss.ssec.wisc.edu/goes/srsor/GOES-14_SRSOR.html