



GOES-East Optimized Schedule Test Results

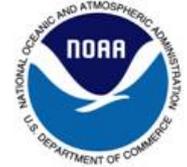
March 4, 2014 & March 6, 2014

See [Background Slides](#) for future planning.



Routine Schedule Results

3/4/2014: 1645Z – 1900Z



| | | Results | | | |
|-------|-----------------------|--|--|--|--|
| Time | Scan Sector | AWIPS | N-AWIPS | McIDAS ADDE | LRIT |
| 1645Z | North Hemisphere Ext. | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1700Z | Conus Ext. | Successfully Processed - Data Quality affected by Solar RFI | Successfully Processed - Data Quality affected by Solar RFI | Successfully Processed - Data Quality affected by Solar RFI | Successfully Processed - Data Quality affected by Solar RFI |
| 1707Z | South Hemisphere | N/A* | Data Unusable - Data Quality affected by Solar RFI | Data Unusable - Data Quality affected by Solar RFI | Data Unusable - Data Quality affected by Solar RFI |
| 1715Z | North Hemisphere Ext. | Successfully Processed - Data Quality affected by Solar RFI | Successfully Processed - Data Quality affected by Solar RFI | Successfully Processed - Data Quality affected by Solar RFI | Successfully Processed - Data Quality affected by Solar RFI |
| 1730Z | Conus Ext. | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1737Z | South Hemisphere | N/A* | Successfully Processed | Successfully Processed | Successfully Processed |

***GINI does not process South Hemisphere Images**



Routine Schedule Results

3/4/2014: 1645Z – 1900Z



| | | Results | | | |
|-------|-----------------------|------------------------|------------------------|------------------------|------------------------|
| Time | Scan Sector | AWIPS | N-AWIPS | McIDAS ADDE | LRIT |
| 1745Z | Full Disk | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1815Z | North Hemisphere Ext. | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1830Z | Conus Ext. | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1837Z | South Hemisphere | N/A* | Successfully Processed | Successfully Processed | Successfully Processed |
| 1845Z | North Hemisphere Ext. | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |

Summary of Test Results

The only known issues during this test was a result of Solar RFI impacting the data quality of imagery between 1700Z and 1715Z .

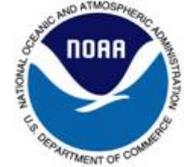
- The following images were degraded: 1700Z Conus Extended, the 1707Z South Hemisphere, and the 1715Z North Hemisphere.

***GINI does not process South Hemisphere Images**



Rapid Scan Schedule Results

3/6/2014: 1600Z – 1900Z



| | | Results | | | |
|-------|-----------------------|--|------------------------|------------------------|------------------------|
| Time | Scan Sector | AWIPS | N-AWIPS | McIDAS ADDE | LRIT |
| 1600Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1604Z | South America Central | N/A* | Successfully Processed | Successfully Processed | Successfully Processed |
| 1607Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1615Z | North Hemisphere | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1625Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1630Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1634Z | South America South | N/A* | Successfully Processed | Successfully Processed | Successfully Processed |
| 1637Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1645Z | North Hemisphere | Did not process due to issues at NSOF** | Successfully Processed | Successfully Processed | Successfully Processed |

*GINI does not process South Hemisphere Images

**GOES-East data feed was inadvertently stopped on the prime GINI system



Rapid Scan Schedule Results

3/6/2014: 1600Z – 1900Z



| | | Results | | | |
|-------|-------------------------------|--|--|--|--|
| Time | Scan Sector | AWIPS | N-AWIPS | McIDAS ADDE | LRIT |
| 1655Z | North Hemisphere | Did not process due to issues at NSOF** | Successfully Processed | Successfully Processed | Successfully Processed |
| 1700Z | Conus | Did not process due to issues at NSOF** | Successfully Processed | Successfully Processed | Successfully Processed |
| 1704Z | South Hemisphere Short Sector | N/A* | Successfully Processed | Successfully Processed | Successfully Processed |
| 1706Z | Conus | Did not process due to issues at NSOF** | Data Unusable - Data Quality affected by Solar RFI | Data Unusable - Data Quality affected by Solar RFI | Data Unusable - Data Quality affected by Solar RFI |
| 1715Z | North Hemisphere | Successfully Processed - Data Quality affected by Solar RFI | Successfully Processed - Data Quality affected by Solar RFI | Successfully Processed - Data Quality affected by Solar RFI | Successfully Processed - Data Quality affected by Solar RFI |

*GINI does not process South Hemisphere Images

**GOES-East data feed was inadvertently stopped on the prime GINI system.



Rapid Scan Schedule Results

3/6/2014: 1600Z – 1900Z



| | | Results | | | |
|-------|---------------------|------------------------|------------------------|------------------------|------------------------|
| Time | Scan Sector | AWIPS | N-AWIPS | McIDAS ADDE | LRIT |
| 1725Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1730Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1734Z | South America South | N/A* | Successfully Processed | Successfully Processed | Successfully Processed |
| 1737Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1745Z | Full Disk | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1815Z | North Hemisphere | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1825Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1830Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1834Z | South America South | N/A* | Successfully Processed | Successfully Processed | Successfully Processed |

***GINI does not process South Hemisphere Images**



Rapid Scan Schedule Results

3/6/2014: 1600Z – 1900Z



| | | Results | | | |
|-------|------------------|------------------------|------------------------|------------------------|------------------------|
| Time | Scan Sector | AWIPS | N-AWIPS | McIDAS ADDE | LRIT |
| 1837Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1845Z | North Hemisphere | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |
| 1855Z | Conus | Successfully Processed | Successfully Processed | Successfully Processed | Successfully Processed |

Summary of Test Results

The only operational impact at ESPC during this test was due to two separate external factors.

- The effect of Solar RFI on imagery resulted in data quality issues with the 1707Z Conus and the 1715Z North Hemisphere.
- Data feed issues at NSOF resulted in an AWIPS outage from 1645Z – 1714Z. GINI operations were switched to the backup and data distribution resumed with the 1715Z image.



Example Data



Side by side example showing more coverage with extended CONUS:

http://cimss.ssec.wisc.edu/goes/blog/wp-content/uploads/2014/03/2PL_ROUTINE_OPTIMIZED_IRW.GIF

CIMSS Satellite blog: <http://cimss.ssec.wisc.edu/goes/blog/archives/15068>

Puerto Rico (PR) had improved coverage: http://cimss.ssec.wisc.edu/goes/blog/wp-content/uploads/2014/03/IR_PRR.gif (image from Jordan Gerth)

Example of the 2 South American sectors: http://cimss.ssec.wisc.edu/goes/blog/wp-content/uploads/2014/03/G13_SAC_SAS_BAND_04.GIF

The final notification is available at: <http://www.ssd.noaa.gov/PS/SATS/MESS/MSG0651938.01.txt>

Predicted Solar RFI was seen on both test days ~1704-1716UTC.

An example can be seen in the image to the left. The Solar RFI affected the 1700, 1707 and 1715 images on March 4, and the 1704, 1707 and 1715 images on March 6. **Image quality and data issues on the above noted frames should be attributed to the Solar RFI, not test related issues.**



Solar RFI – March 4 1715Z

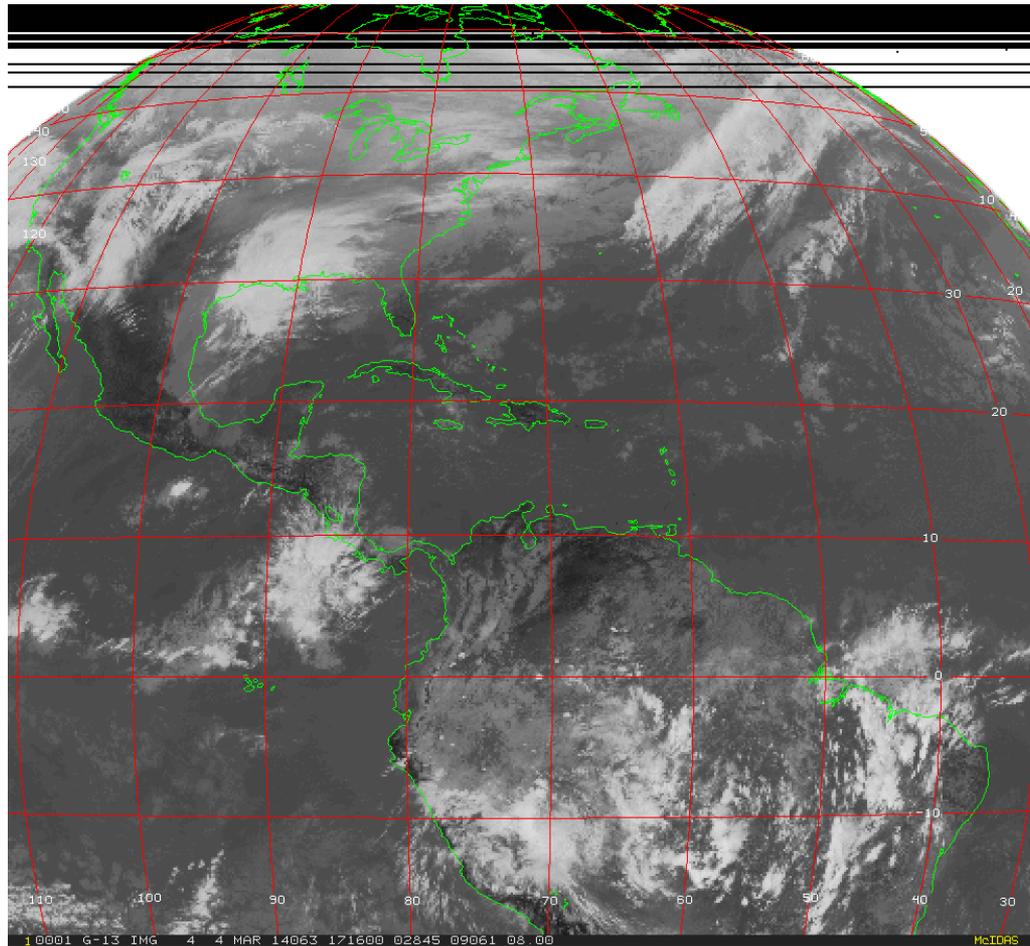
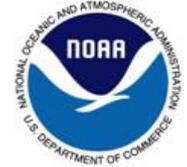


Image produced by CLASS



Solar RFI – March 5 1715Z

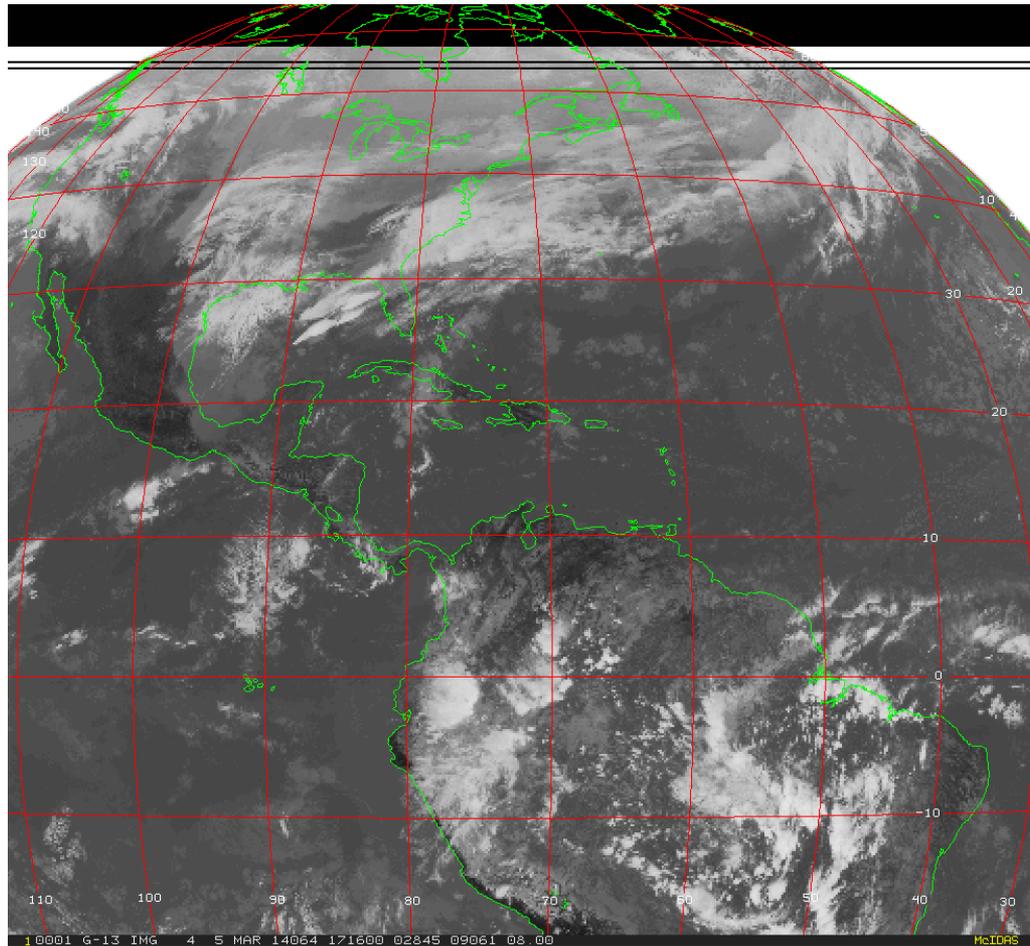
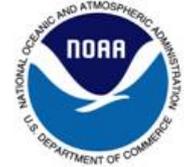


Image produced by CLASS



Solar RFI – March 6 1715Z

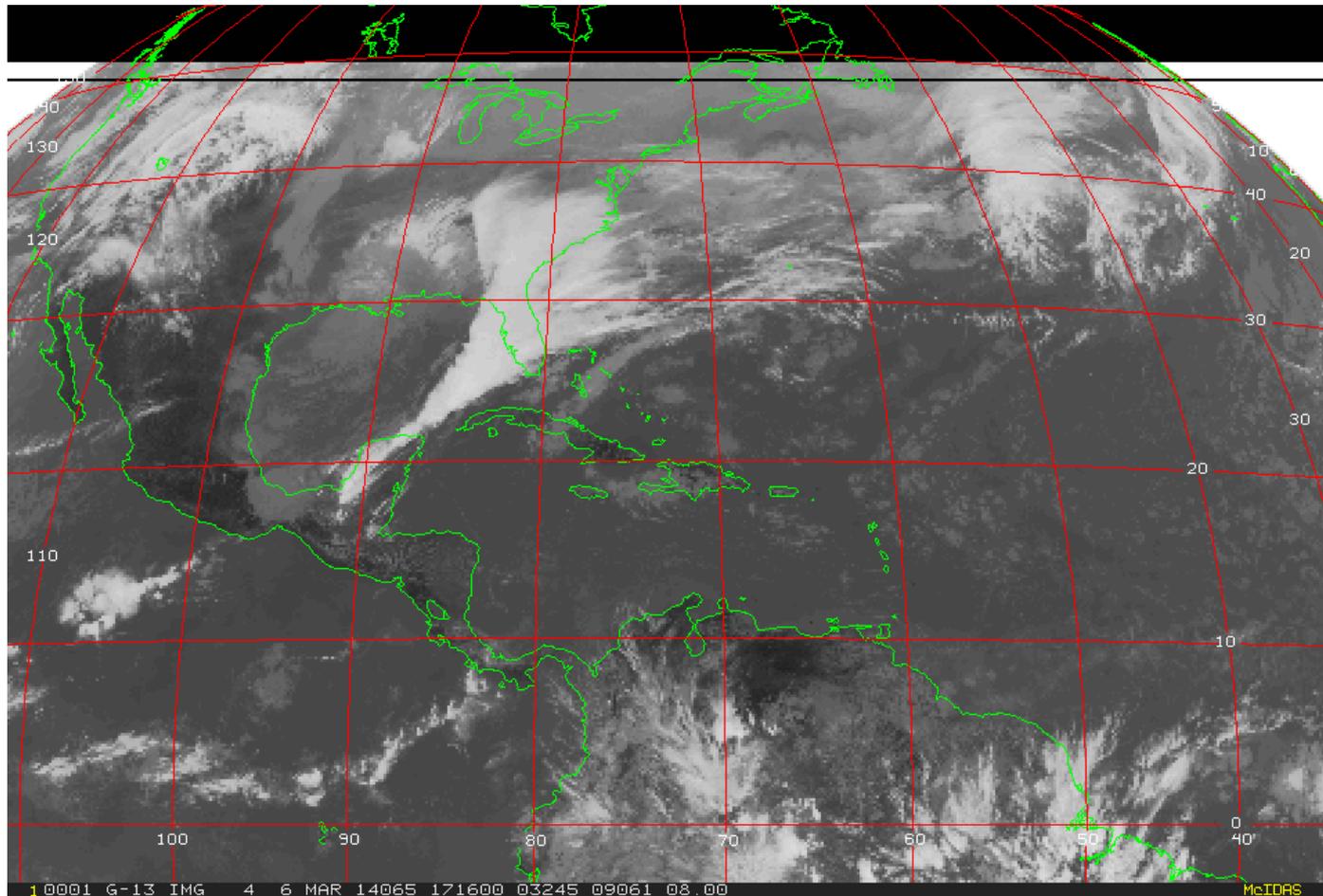
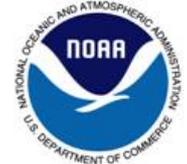


Image produced by CLASS