The University of Wisconsin-Madison Space Science and Engineering Center (SSEC) Data Center provides real-time and archive satellite data images and products to University, NOAA, and NASA researchers and commercial interests. The SSEC Data Center has ingested, redistributed, archived, and processed satellite data for over 35 years.

From 1979 until 2004 the University of Wisconsin Space Science and Engineering Center (UW-SSEC) archived GOES satellite data for the official National Satellite Archive which now resides at the National Climatic Data Center, in Asheville, North Carolina. The original operational GOES satellite archive was recorded on Sony U-matic tapes starting in 1978 and continued until 1997.

In the late 1990s, it became apparent that the original tapes were slowly deteriorating, so in 1997 a project to rescue the data from U-matic tape and transfer the data to IBM 3590 tape media was begun. This rescue was completed in 2005. During the rescue project all GOES data from 1978 through 1996 was recovered and saved to 3590 media. At the time of the rescue, no software existed to reconcile the redundant data and interrogate the anomalies that were found.

Types of Correctable Errors Encountered in Mode-A data
- **Lines deleted/added**: Caused by multiple/bad sync or ground station send errors, sometimes resulted in multiple images in one index.
- **Bit slip**: Bits inserted between sync and type blocks and/or data, probably from when U-matic was first recorded, or may have happened during playback.
- **Fixed type**: IR (0) or VIS (1-8) incorrect, sometimes due to bit slip or multiple/bad sync.
- **Fixed line number**: Line number was changed, caused by bit error.
- **Framing Error**: IR data block size was incorrect.

Reprocessing Statistics
There are over 717,000 images archived from the operational GOES satellites during the period 1978 to 1996. All Mode-A data (over 306,470 images) have been reprocessed.

- ~2,800 Mode-A images thought to be completely lost were recovered.
- ~8,100 images had corrections to at least 95% of their image lines.
- ~25,500 images had framing errors corrected that affected every visible scan in an image.

Totals above represent nearly 2 full years of data!