Advanced Baseline Requirements for NOAA's GOES Satellites

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GOES Imaging Requirements*
*-Draft 12/98

- Maintain existing 5 channels
- Restore 12.0 micron channel (SST, ash, low-level moisture)
- Operate through eclipse
- Minimize solar "keep-out zones"
- Resolve global-mesoscale conflict
- More frequent images
- New bands
- Higher resolution

Proposed Scanning Frequency

- 4 'full-disk" views every hour, evenly distributed in time (15 min), AND ...
- 12 CONUS views per hour (5 min), plus ...
- Ability to see 1000 x 1000 km storm areas in less than one minute

Proposed Bands and Resolutions

Visible	0.5 km
1.6 micron	2.0 km
3.9 micron	2.0 km
6.7 micron	2.0 km
7.3 micron	2.0 km
10.7 micron	2.0 km
12.0 micron	2.0 km
13.3 micron	2-4 km

GOES Imaging Requirements*

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- Radiance retrievals to allow for temperature soundings of 1 km vertical resolution and 1 deg. K accuracy
- 10 km spot size
- Minimum 1 CONUS per 30 min
- Goal of full disk soundings every hour

New Observational "Desires"

- Targeted high-resolution ocean color
- Additional capabilities for trace gas monitoring
- Increased resolution (1 km or better) for fire monitoring
- Low light/no light imaging

sarnett@ssdnotes.ww, 07:56 PM 12/29/19, GOES Year 2000 end to end test

From: sarnett@ssdnotes.wwb.noaa.gov
X-Lotus-FromDomain: WVTB
To: steve.arnett@prodigy.net
Date: Tue, 29 Dee 1998 19:56:33 +0000
Subject: GOES Year 2000 end to end test
Content-Disposition: inhne

The following information was received from NESDIS/OSO/SOCC. The flow of GOES-8 and GOES-10 data will remain normal during this test. The Y2K test data will flow through GOES-7.

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The Office of Satellite Operations is planning a second end to end test of its GOES system as it will operate in the year 2000. For this test, we plan to set the time in our GOES ground system components to December 31, 1999 and run through the transition to January 1, 2000 and continue operating with the year 2000 time tag for the next 24 hours. A GOES-8 GVAR data stream time-tagged in the year 2000 will be retransmitted via GOES- 7 to exercise our GVAR ingest systems to insure that all systems will correctly process this data. A leap year test will also be performed. We invite the National Weather Service and private users to participate in this test. The test will begin on Monday, January 25, 1999, and end on Thursday, January 28, 1999.

This test is an unique opportunity for all GOES users to validate their systems for year 2000 problems. We hope that you will encourage all to participate. If you need more information, please contact Gary McBrien, the Office of Satellite Operations year 2000 coordinator, at 457-5250.

Dates and Times for GOES GVAR Year 2000 Compliance Broadcasts

These are the times and dates for the transmission of GVAR data with year 2000 time tags for the purpose of year 2000 compliance testing.

The GVAR which is being transmitted from GOES-8, will be simultaneously transmitted through GOES-7 with a future day and year. The UTC time, hours, minutes, seconds, will be the actual UTC time.

This test will in no way effect the data normally transmitted by either the GOES-8 or GOES-10 spacecraft. Due to the fact that operational requirements may supercede those of this test however, should a conflict for resources occur, the test may be terminated without warning.

Since all times on the test ground system configuration, expressed here in hours and minutes, and the actual UTC time, will be the same, all references to UTC time refer to the actual UTC time.

1. Dry Run for OSO and NOAA Science Center