



Announcing **New** GOES LRIT Groundstations

The screenshot displays the MEGAVIEW 3 interface with several windows open over a satellite image background. The 'LRIT - Sector Status' window shows a table of data blocks with columns for Time/File Name, File Exten, W/d, Ht, Res, Status, and Cut From. The 'LRIT - Image Product Status' window shows a table with columns for vc, ID, Time/File Name, File Exten, Seg, W/d, Ht, Status, and Age. The 'NVG DSIG - LRIT ingest' window shows 'Product Status' and 'Sector Status' buttons, 'Reception Statistics' (Data Blocks: 69527, Missed: 0, Long Gaps: 10, Sync Errors: 2, Re-Syncs: 2, R-S Corrections: 0, Bad Blocks: 2), and 'Current LRIT Product' (G12_NHVS) with satellite and system dates and times.

Screen capture background image: part of LRIT Image Product File from 11/27/03 displayed with MEGAVIEW 3 (original aspect ratio)

GOES LRIT Data Service*

- Free, unencrypted data from GOES satellites
- Viterbi encoded, packetized, Reed-Soloman forward error correction and various compression methods
- GOES East and GOES West image products
 - Both can be received from single satellite
 - High resolution with lossless Rice compression
 - Vis, IR, WV scans, pixel res: 2.3 km x 4.0 km
 - IR and WV resolution SAME AS GVAR
 - Half-hourly North & South Hemisphere scans
 - Plus interspersed Conus scans and Special scans
 - Full Disk scans every three hours
- GOES-9 (Japan) images — lossy jpeg files for now
- Data Collection Service (DCS) product files
- Expansion possibilities for many other products

*GOES East: half time now, full time fall 2004
 *GOES West: half time mid 2004, full time mid 2005
 *Product schedules subject to user feedback

Hardware and Software Highlights

- Antenna: dish or flat panel, < 1 meter possible
- Receiver with integrated Viterbi decoding
- Computer: desktop or portable
- DSIG Ingest Software
 - Reed-Soloman error correction
 - Full Image Product File capture
 - Viewable Product File Status window
 - On-the-fly Sectorizing of hi-res imagery
 - Resampled to square pixels
 - User defined sectors (area, res, chan, etc)
 - Viewable Sector File Status window
- DCS Product File capture
 - See also separate DSIG data sheet —
- MEGAVIEW Display Software
 - User specified map and grid overlays
 - Multi-window synchronized looping ,zooming
 - Colorization, cursor temp readout, etc
 - See also separate MEGAVIEW data sheet —