

## Spanning the decades, spanning the missions, for operations and research

### Acquire & Process Data from Every Current & Future Environmental Satellite

TeraScan®: The Standard for Remote Sensing Satellite Ground Systems.

Over 450 direct broadcast systems worldwide

#### L/S-band Polar Orbiters

NOAA, FY-1, Orbview-2 & DMSP



#### Geostationary

GOES, Meteosat, MSG, MTSAT & FY-2



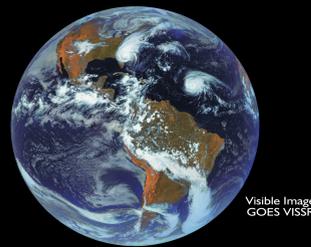
#### X-band Polar Orbiters

Terra, Aqua, Oceansat, HY-1, RADARSAT, ERS-2



#### Future Systems

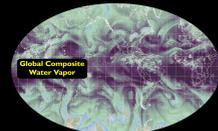
NPP, NPOESS, MetOp, Oceansat-2 & GOES-R



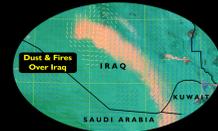
Visible Image  
GOES VISSR

### Open architecture for easy customization

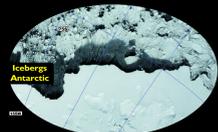
#### Meteorology



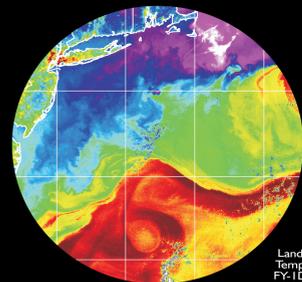
#### Tactical Planning



#### Oceanography



#### Land Applications



Land/Ocean  
Temperature  
FY-1D MVISR

### Serving the Customer Now and in the Years to Come

Serving a Worldwide Customer Network.

It is crucial to SeaSpace's mission that all of our customers, whether research or operational, civilian or military, enjoy an uninterrupted 24x7 flow of the data products they need. That means strong support, reliable field service, rapid response, on-demand data service, and continuous communication both with and among our hundreds of customers. This support includes:

- **Responsive phone support.** SeaSpace phone support means a rapid, informed response from the most knowledgeable engineers available.
- **Remote Access.** With your permission, our engineering staff can log in to your TeraScan system from the SeaSpace facility to perform complete system diagnoses, patch installation, and troubleshooting.
- **Field Service.** A SeaSpace engineer will visit your site to clean up your software system configuration; calibrate and groom your system; and provide training.
- **Data Operations.** When you cannot acquire satellite passes yourself, SeaSpace can provide real-time data delivery for passes that are visible from our facility.
- **Comprehensive Training** in hardware, software and operations
- Yearly TeraScan **user conferences.**
- An internet **web forum** where customers can talk to both SeaSpace technicians and other customers about hardware and software and exchange scripts, processing algorithms, or research interests.



SeaSpace's Web Forum



SeaSpace's 14th International Meeting  
Nanjing China - 2004

Here is a recent excerpt from an article regarding the use of TeraScan 2.4m & 4.5m X-band MODIS ground stations for operational Emergency Management:

**(September 14, 2005)** - Vice President Dick Cheney last Saturday (Sept. 10) acknowledged the work of a research group from The University of Texas at Austin's Center for Space Research (CSR) who used sophisticated satellite mapping technology to assist water rescue efforts for thousands of (hurricane) Katrina victims.

For more information on this article, visit:  
<http://www.engr.utexas.edu/news/articles/20050914901/index.cfm>



Hurricane Katrina  
August 29, 2005 - 9:30AM

Courtesy of Jim Casey,  
Program Manager  
Center for Space Research  
University of Texas  
[www.csr.utexas.edu](http://www.csr.utexas.edu)

SeaSpace's real time Data  
Operation Center provides  
worldwide customer support.



### SeaSpace TeraScan® AXIOM Antennas

Mission Telemetries in Real Time, Every Time.

Model	Features
1.2-2.4m AXIOM full motion LEO Model 20	3-axis L, S, and dual L/S band Fixed, portable, shipboard configurations
2.0m - 3.1m full motion LEO Model 30	2-axis EL/AZ with optional 3 <sup>rd</sup> axis X/L/S-band capable, ready for NPOESS Radome is optional Advanced TeraScan® Servo Drive System (SDS) with 0.05" accuracy pointing
3.1-6.1m AXIOM full motion LEO Model 50	3-axis X/Y/Az pedestal= full hemisphere coverage Ka/X/L/S-band capable Radome included 3-piece composite reflector
6.1-7.7m limited-motion GEO Model 70	3-axis with Composite reflector Low or high-inclination geosynchronous satellites X/L/S-band capable Optional Radome

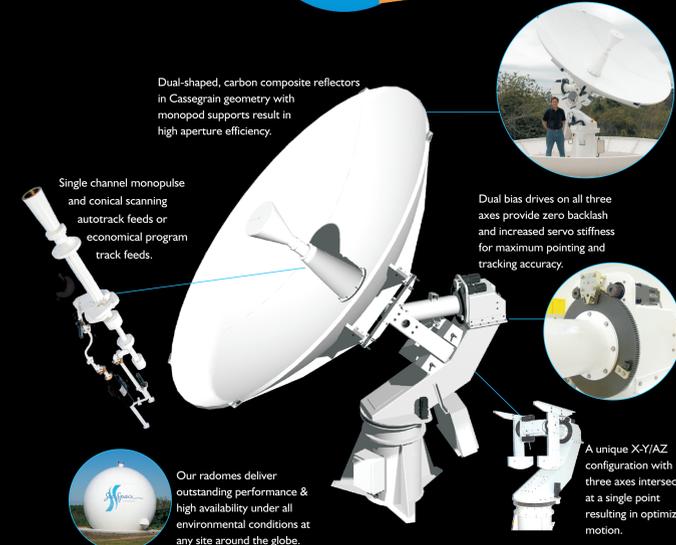
Precise, full-hemispherical tracking is the critical first step in communicating with LEO satellites. Yet, most existing designs fall short in one or more significant aspects. To overcome this, SeaSpace analyzed a multitude of conventional and unconventional designs and made an innovative leap to deliver high tracking accuracy.

Whether your requirement is for a single component or a turnkey system, SeaSpace is unparalleled in our ability to support you within a complete engineering, manufacturing, and applications framework.

- Full hemispherical coverage - no keyhole loss
- NPP/NPOESS ready
- Minimum tracking velocity
- Low cost of ownership



A High-Performance, Low-Risk Solution



Dual-shaped, carbon composite reflectors in Cassegrain geometry with monopod supports result in high aperture efficiency.

Single channel monopulse and conical scanning autotracking feeds or economical program track feeds.

Dual bias drives on all three axes provide zero backlash and increased servo stiffness for maximum pointing and tracking accuracy.

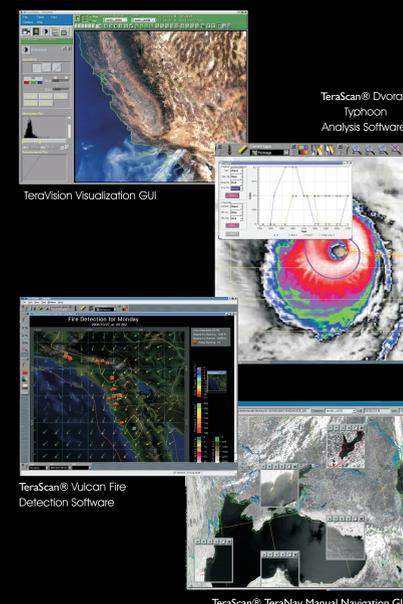


Our radomes deliver outstanding performance & high availability under all environmental conditions at any site around the globe.

A unique X-Y-AZ configuration with three axes intersecting at a single point resulting in optimized motion.

### TeraScan® Advanced Software Features

Staying on Top of the World



TeraScan's processing environment is as open as you desire, providing all the software tools you need, not only to create standard data products, but to display, annotate, navigate and manipulate them. You can even integrate your own algorithms to define and produce new data products. Every TeraScan® System has:

- Fully documented API
- All telemetries processed/visualized in the same environment
- Complete set of shareable libraries
- Over 600 native production & analysis functions
- Language-independent, script controlled operation.
- Automated pass scheduling
- User-selected areas of interest for data capture or processing.
- GUI script builder to generate a wide variety of data products. Easily build and modify scripts for MODIS, AVHRR and other sensor data products.
- Full-featured image visualization. Image arithmetic, user defined data layers, time-series animation, and much more.
- Optional web-based data archive and retrieval



TeraScan Web based interface for data archiving and retrieval.



System level calls let you create language independent production scripts.



#### Comprehensive import/export capabilities

Some of the current and future formats TeraScan exports and imports to include TIFF & GeoTIFF, JPEG2000 & JPEG/JFIF, PNG, GIF, MWI Bitmap, GIF, Erdas Imagine, PCI Geomatics Database File, ENVI Labeled Raster, METOC TIFF, Arc/Info ASCII Grid, VTP Binary Terrain Format, ERMapper Compressed Wavelets, Arc/Info Binary Grid, Atlantis MFF2e, WinDisp, ILWIS Raster Map, Atlantis MFF, NITF, HDF, NetCDF and VRML.