

## **Direct Broadcast Terascan Operations in the U.S. Antarctic Program**

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### **Antarctic Support Contract**

Terascan is a satellite ground station and a product of SeaSpace Corporation, it is an integration of hardware and software components that can accurately track and collect telemetry from meteorological polar orbiting satellites. These satellites broadcast signal that is converted into high or medium resolution imagery that is used for weather research and forecasting that is directly used for aviation support, vessel navigation and field movement planning in the U.S. Antarctic Program. The USAP Terascan systems hold a unique position in that they cover very remote locations on the planet and provide real time imagery to weather forecasters for critical field movement support. Real Time or Near Real Time is the key element. Rapid collection and dissemination of the satellite imagery, on site, is needed for operational decision makers. All other available imagery data carries with it a certain amount of latency. This talk will cover the basics of what the USAP Terascan systems do and there will be some discussion of general remote sensing topics.