The GODAE High Resolution SST Long-Term Stewardship and Reanalysis Facility at the U.S. NODC

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The Long Term Stewardship and Reanalysis Facility (LTSRF) at NOAA’s National Oceanographic Data Center (NODC) serves as the perpetual archive and coordinating center for GODAE High Resolution Sea Surface Temperature Pilot Project (GHRSSST-PP) reanalysis activities. Discussions beginning in 2002 led to formal operations in 2006. Since that time, automated archive operations have been successfully maintained with nearly 100% reliability. Each day, approximately 1000 netCDF files and over 25 gigabytes are brought into the archive from a variety of satellite sensors and data production systems. The archive has grown to 16 TB in 2008 and includes regional and global Level 4 (L4) analyses and Level 2 Preprocessed (L2P) data for nearly all satellite sensors capable of observing SST. User accesses have also grown rapidly and extensive progress has been made in meeting the two primary goals of GHRSSST reanalysis: to develop improved reanalysis climate data records for SST and to connect satellite-based SST analyses with the longer time series of ship-based SST reconstructions.