

Applications Using Satellite Sounder Products At The Nasa

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Applications Using Satellite Sounder Products

Applications using Satellite Sounder Products at the NASA SPoRT Center transitioning unique NASA data and research technologies to operations Emily Berndt¹ and Bradley Zavodsky² ¹University of Alabama in Huntsville/NASA SPoRT, Huntsville, Alabama ²Short-term Prediction Research and Transition Center NASA/MSFC, Huntsville, Alabama

Applications using Satellite Sounder Products at the NASA ...

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Applications using Satellite Sounder Products at the NASA ...

•Apply satellite measurement systems and unique Earth science research to improve the accuracy of short-term weather prediction at the regional and local scale •Bridge the “Valley of Death” •Can’t just “throw data over the fence” –Maintain interactive partnerships with help of specific advocates or “satellite champions”

Applications using Satellite Sounder Products at the NASA ...

Applications using Satellite Sounder Products at the NASA SPoRT Center transitioning unique NASA data and research technologies to operations Emily Berndt ¹, Bradley Zavodsky ², Gary Jedlovec ³, Clay Blankenship. ³. 1. NASA Postdoctoral Program Marshall Space Flight Center, Huntsville, Alabama . ²

Applications using Satellite Sounder Products at the NASA ...

Applications Using Satellite Sounder Products at the NASA SPoRT Center . By Emily Berndt and Bradley Zavodsky. Abstract. No abstract available Topics: Meteorology and Climatology . Year: 2016. OAI identifier: oai:casi.ntrs.nasa.gov:20160004064 ...

Applications Using Satellite Sounder Products at the NASA ...

These products are derived from the Cross-track Infrared Sounder (CrIS) and Advanced Technology Microwave Sounder (ATMS) currently onboard the Suomi National Polar-orbiting Partnership (SNPP) satellite and later will be available from the Joint Polar Satellite System (JPSS-1 and JPSS-2).

Sounding Products - Office of Satellite and Product Operations

Intensive campaigns for sounder validation also ideally include underflights of an aircraft IR spectrometer sounder such the National Polar-orbiting Operational Environmental Satellite System Atmospheric Sounder Testbed-Interferometer (NAST-I) and Scanning High-resolution Interferometer Sounder (S-HIS), which allow for direct SDR cal/val [e.g., Tobin et al., 2006b]. Field campaigns that include data sets such as those mentioned can allow for detailed performance specification and ...

Validation of satellite sounder environmental data records ...

Launched into orbit on May 4, 2002 aboard NASA's Aqua satellite, the Atmospheric Infrared Sounder, or AIRS, is enhancing our understanding of Earth's weather and climate. AIRS is one of six instruments aboard NASA's Aqua satellite, which in turn is part of a constellation of satellites that make up NASA's Earth Observing System.

Home - AIRS

Satellite communication - Satellite communication - How satellites work: A satellite is basically a self-contained communications system with the ability to receive signals from Earth and to retransmit those signals back with the use of a transponder—an integrated receiver and transmitter of radio signals. A satellite has to withstand the shock of being accelerated during launch up to the ...

Satellite communication - How satellites work | Britannica

The satellite sounders normally have multiple channels to get information from different atmosphere height, are used to retrieving vertical profiles of temperature and trace-gas concentrations ...

Difference between satellite imagers and sounders

The Office of Satellite and Product Operations currently generates sounding products from four operational systems ATOVS, MIRS, IASI and GOES systems. Each polar orbiting satellite provides full global coverage each day, hence data from polar satellites are useful for anybody requiring global coverage.

What is a Sounding - OSPO - Office of Satellite and ...

Egido is being honored March 20th, 2020, at the Robert Goddard Memorial Dinner for his novel analytic technique which improves along-track resolution of high-rate satellite radar altimeters. The award is presented to young professionals for outstanding innovation in the use of satellite data for operational environmental applications.

STAR - NOAA / NESDIS / Center for Satellite Applications ...

Using an advanced radiometer, the satellite peers beneath clouds, vegetation and other surface features to monitor water and energy fluxes, helping improve flood predictions and drought monitoring.

Remote Sensors | Earthdata

The full-time availability of the GOES-8 sounder enables operational sounding products for the first time; this has the potential for contributing significantly to mesoscale forecasting over the conterminous United States, monitoring thermal winds over oceans, and supplementing the Automated Surface Observing System (ASOS) with upper-level cloud information.

GOES-8 Sounder Description

1723UTC 01Aug2019: As of 01Aug2019, a limited set of GOES-14 Sounder products have been activated. These products will only be available until 08Aug2019. The Sounder retrieval products (for example, Precipitable Water) should be nominal within approximately 24 hours.

CIMSS Realtime GOES Derived Product Imagery

Three satellite precipitation products, including the Tropical Rainfall Measuring Mission (TRMM) Multiple-Satellite Precipitation Analysis (TMPA) real-time 3B42 product (3B42RT), the Climate Prediction Centre (CPC) morphing technique (CMORPH) gauge merged product (CMORPH BLD), and the Precipitation Estimation from Remotely Sensed Information using Artificial Neural Network - Climate Data Record (PERSIANN CDR), are corrected

using SREM2D.

Streamflow Simulations Using Error Correction Ensembles of ...

Newtec's products and technologies can be applied in a wide range of single and multiservice applications from DTH broadcasting, video contribution and distribution and disaster recovery and backbones for cellular backhauling, to small and medium enterprises, SCADA and oil and gas networks, aircraft and vessels.

ThinKom, COMSAT and Newtec Complete Successful On-air Demo ...

Presets. Need help using That Sound products with different software applications? This section should help.

Presets - That Sound

ThinKom Solutions, Inc. (www.thinkom.com) is a leading provider of innovative, highly affordable, compact broadband antennas and products for aeronautical, vehicular, user terminal, gateway, satellite and man-portable applications. The company's primary products uniquely enable near-term worldwide availability of high-data-rate connectivity ...

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