

Near-Real-Time Jason-1 Images

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The Jason-1 satellite mission provides sea surface height measurements in near-real-time (NRT). These operational data can be used for a variety of scientific and commercial applications, including marine meteorology, ship routing, and climate prediction.

The Physical Oceanography Distributed Active Archive Center (PO.DAAC) is supporting the JASON-1 mission by capturing NRT data from the Jason Ground System (JGS) and distributing the data to operational users. In addition, PO.DAAC will be processing the data to create value-added NRT browse images, which will be made available, along with their associated binary data, through the Near-Real-Time Image Distribution Server (NEREIDS).

Two NRT data products will be processed by JGS and captured by PO.DAAC: Operational Sensor Data Records (OSDRs) and Interim Geophysical Data Records (IGDRs). After capturing the data PO.DAAC will automatically create significant wave height, wind speed and water vapor content browse images from the OSDR data. Additional parameters will be provided from the IGDR data product, including the sea surface height anomaly. In this poster we describe the functionality of NEREIDS and demonstrate the usefulness of operational altimetric data for scientific applications.