

# **USGS EROS 2004 TSUNAMI HAZARDS DATA DISTRIBUTION SYSTEM**

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## **ABSTRACT**

Vast amounts of remotely sensed data were collected and distributed during the aftermath of the 2004 tsunami and the 2005 hurricanes. The data were made available for download and distribution by many government agencies and private companies. The data were provided by various agencies and companies with specific requirements and varying degrees of financial resources. These factors lead to data being provided with different formats, different levels of metadata, and different compression methods. The users of the data had varying degrees of connectivity to the Internet, ranging from no communications capabilities, telephone dial-up, to T3 lines. USGS EROS is working with responding agencies to define requirements for image formats and minimum metadata requirements needed to support emergency response geo-spatial data layers. These requirements will be used to guide the development of an image pre-processing system that will generate a standard look and feel for all data delivered by the USGS EROS for emergency response. The broad range in connectivity has been the impetus for USGS EROS to begin development of a Hazards Data Distribution System (HDDS) that incorporates media shipments, download capabilities for ESRI Shapefiles and Google Earth's Place files (kml), and a new tiled data delivery that will provide a more intelligent user interface for selection and downloading of compressed and full resolution imagery.