

CDDIS Overview

- NASA's active archive of space geodesy data, products, and information
- Major user community are services within the International Association of Geodesy
- Majority of CDDIS archive utilized for geodetic studies, e.g., plate tectonics, earthquake displacements, Earth orientation, etc.
- Plays an interdisciplinary role in supporting derivation of the ITRF, POD for NASA/international missions, atmospheric studies, etc.
- CDDIS funded by NASA/ESDIS but cooperates extensively with the international community

CDDIS Support of Space Geodesy

- Data
 - GNSS: 400+ sites tracking GPS, GLONASS
 - Laser Ranging (SLR and LLR): 42 sites tracking 35+ satellites (including the Moon)
 - VLBI: 45 sites
 - DORIS: 58 sites tracking 6 satellites
- Products
 - Precise network station positions (for ITRF)
 - Satellite orbits (for POD)
 - Station and satellite clocks (for timing)
 - Earth rotation parameters
 - Positions of celestial objects (for CRF)
 - Atmospheric parameters (Ionosphere TEC, Troposphere ZPD)
 - ...

Flow of Files to/from CDDIS

(Information, Data, Products)

