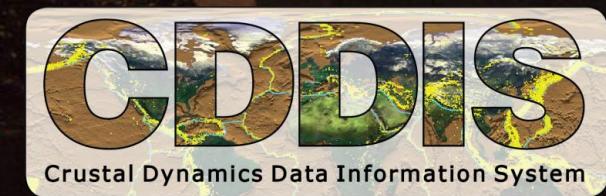
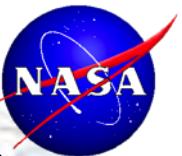


Crustal Dynamics Data Information System (CDDIS)

NASA's Repository of Space Geodesy Data

Patrick Michael
CDDIS Manager
September 28, 2022





CDDIS and Science

Timing

- Station and satellite clock solutions

Atmosphere

- Troposphere delays
- Ionosphere mean electron maps
- Global profiles for water vapor

Celestial Reference Frame

Gravity

- Total Earth Mass
- Temporal variations of the Earth center of mass
- Earth's gravity field changes

Precise Orbit Determination

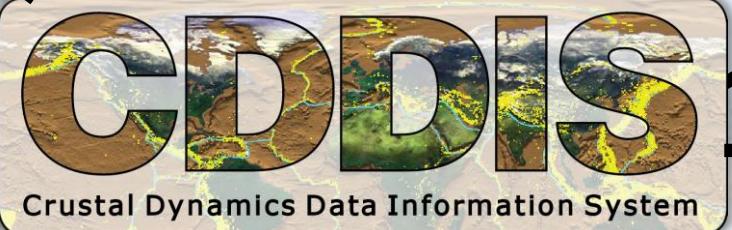
- Accurate satellite ephemerides
- Sea level monitoring
- Calibration & validation for remote sensing instruments

Fundamental Physics

- General relativity
- Time dilation

Terrestrial Reference Frame

- Station positions & velocities
- Scale & temporal variations





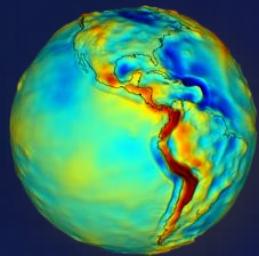
CDDIS and Society



Volcanoes



Water and Ice



Earth Observation



Earthquakes



Public Safety



Financial Transactions



Public Safety

Gravity



Spacecraft Navigation



Surveying



Disaster Cleanup



Precision Agriculture



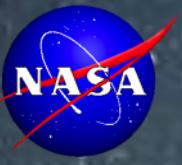
Transportation

Timing

Navigation



Aviation



Data and product holdings from the Extended Solid Earth Science ESDR System (ESESES)

Dr Yehuda Bock
Dr Angelyn Moore

