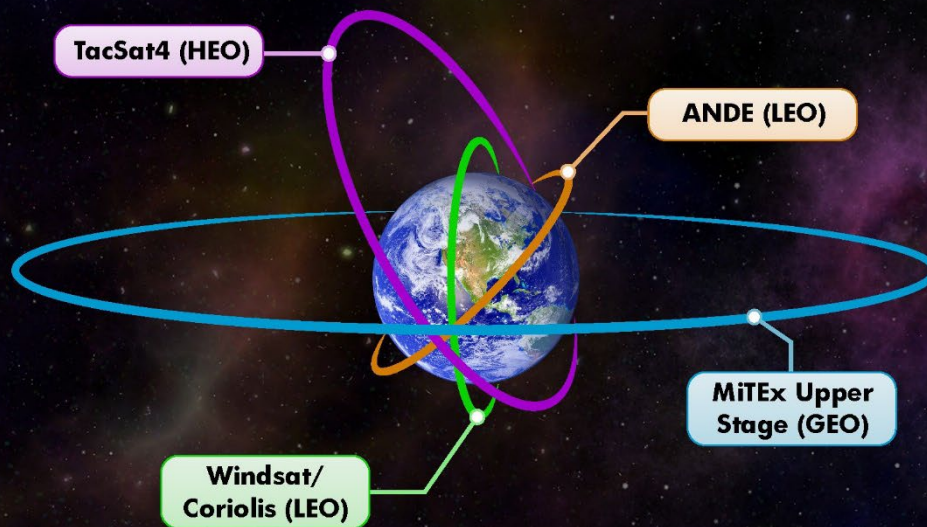


Orbit/Covariance Estimation and ANalysis (OCEAN) is a state-of-the-art orbit determination, ephemeris propagation, and timing calibration software suite. OCEAN applies high fidelity models and advanced estimation techniques to provide precise and accurate satellite ephemeris, orbit predictions, and covariance products throughout the mission lifetime.

Mission Support



Products:

- Ephemeris Products
 - Post-processed ephemeris and orbit predictions
 - OLES and TLES
 - Ephemeris comparisons
 - Full covariance history and propagation
- Analysis Products
 - Bias estimates
 - Measurement residuals
 - Maneuver estimation
 - Satellite clock calibration
 - Products customized to user needs

In addition to these missions, OCEAN has supported numerous National Asset Programs

The OCEAN Advantage: Low Cost, Precise, Accurate Orbit Determination

OCEAN offers proven high performance government-off-the-shelf software to meet your precision orbit determination needs for less than the licensing costs of competing products.

- Tailored to meet mission needs and desired products
- Individual and multi-satellite/constellation orbit determination products
- Easily scripted for automated operations
- 15+ years of operational mission support
- Highly configurable, database-driven software
- Heritage use with Blossom Point Tracking Facility's Neptune® software for reliable lights-out operations

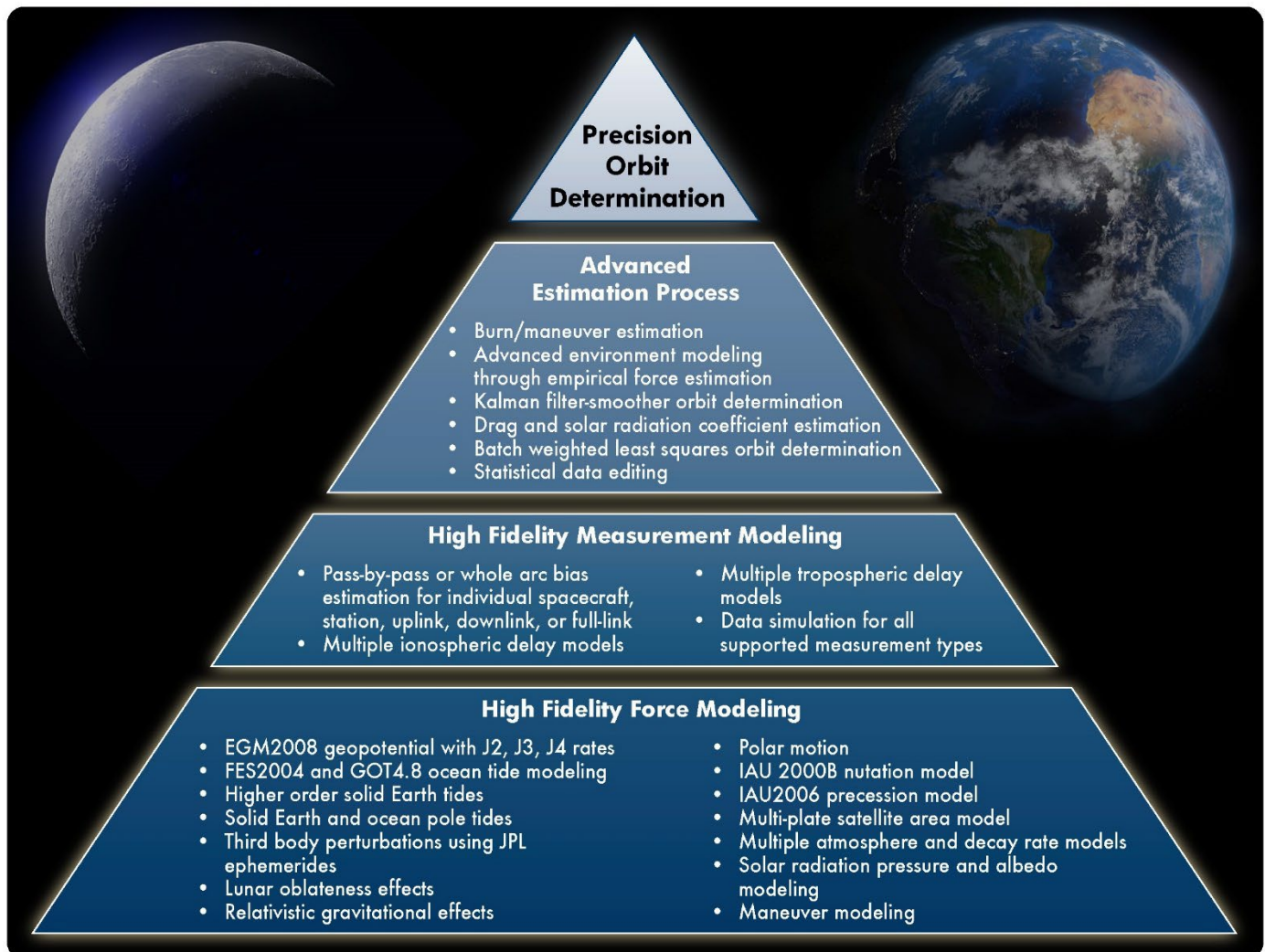


For more information, please contact ocean@nrl.navy.mil

Measurement Types:

OCEAN supports over 25 measurement types and employs robust data editing techniques to reliably generate precise and accurate orbit solutions.

- SSN and AFSCN Range, Range-Rate, Azimuth, and Elevation
- GPS Single and Double Differenced Pseudorange
- Bi-Static (3-Way) Absolute and Differential Range
- Satellite Laser Range
- Intersatellite Ranging



Configuring and Using OCEAN:

Built for speed using FORTRAN code, OCEAN can be easily deployed to Linux workstations using open source compilers. Standard file input/output means that OCEAN can be quickly integrated into existing systems for efficient, cost-effective orbit determination performance.



For more information, please contact ocean@nrl.navy.mil