**OCEAN Precise, Accurate, Proven**

**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.

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