

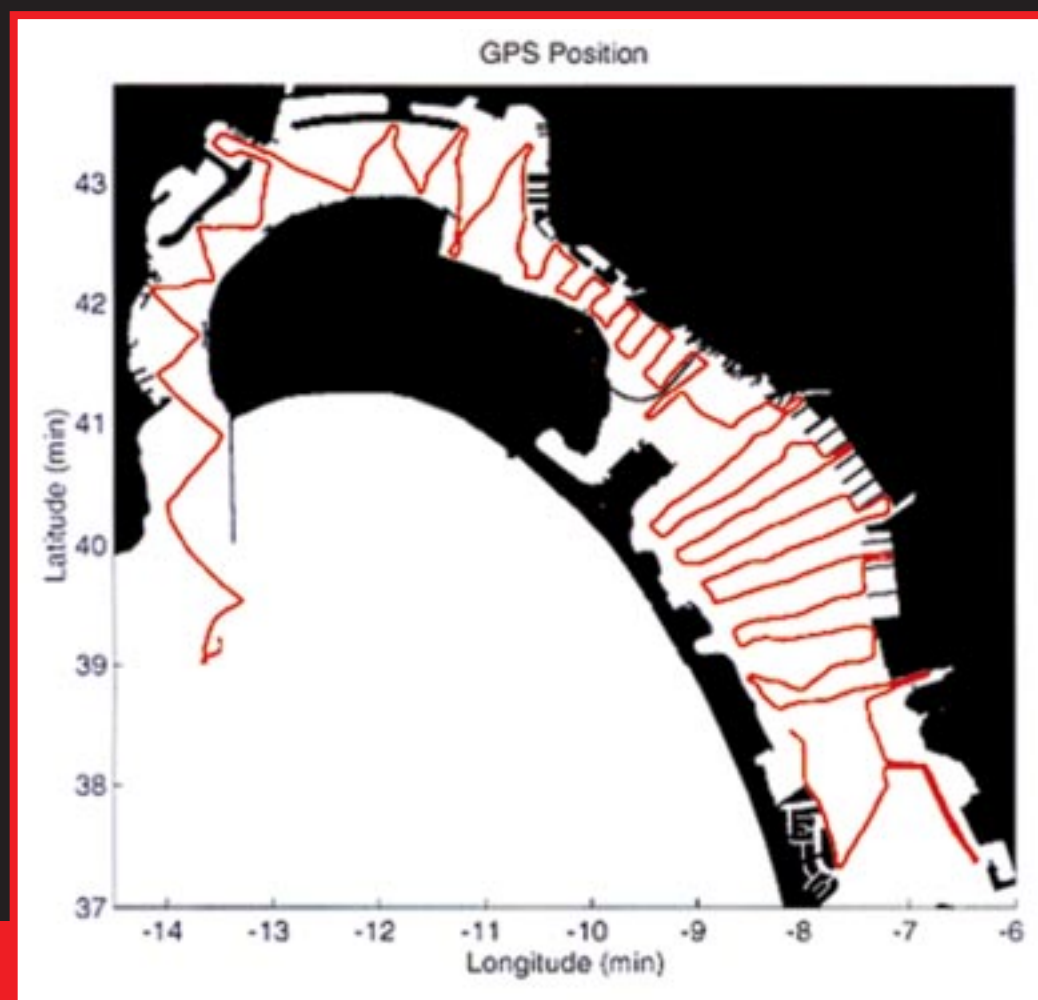
## Marine Environmental Quality Assessment and Management

Supporting Environmentally Sound Fleet Operations and Coastal Facilities

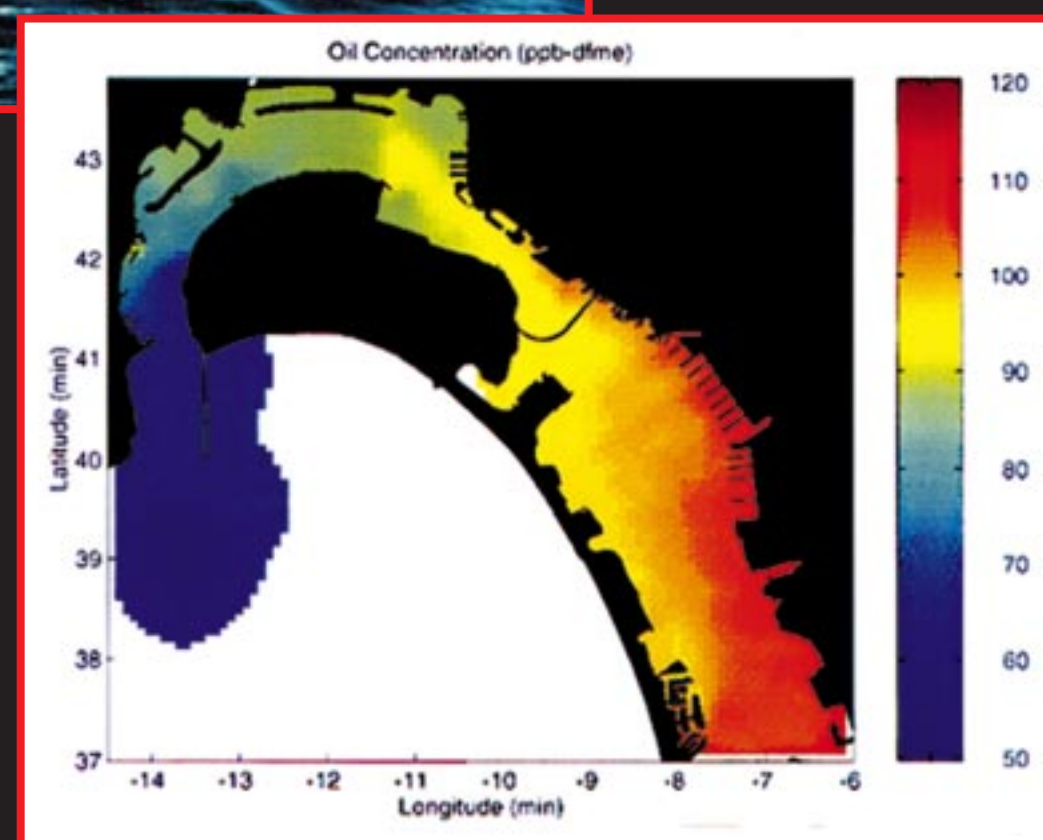


### Marine Environmental Survey Capability

Rapid mapping and monitoring of harbors and coastal regions



6-hr mapping track



Oil concentration in San Diego Bay from storm runoff

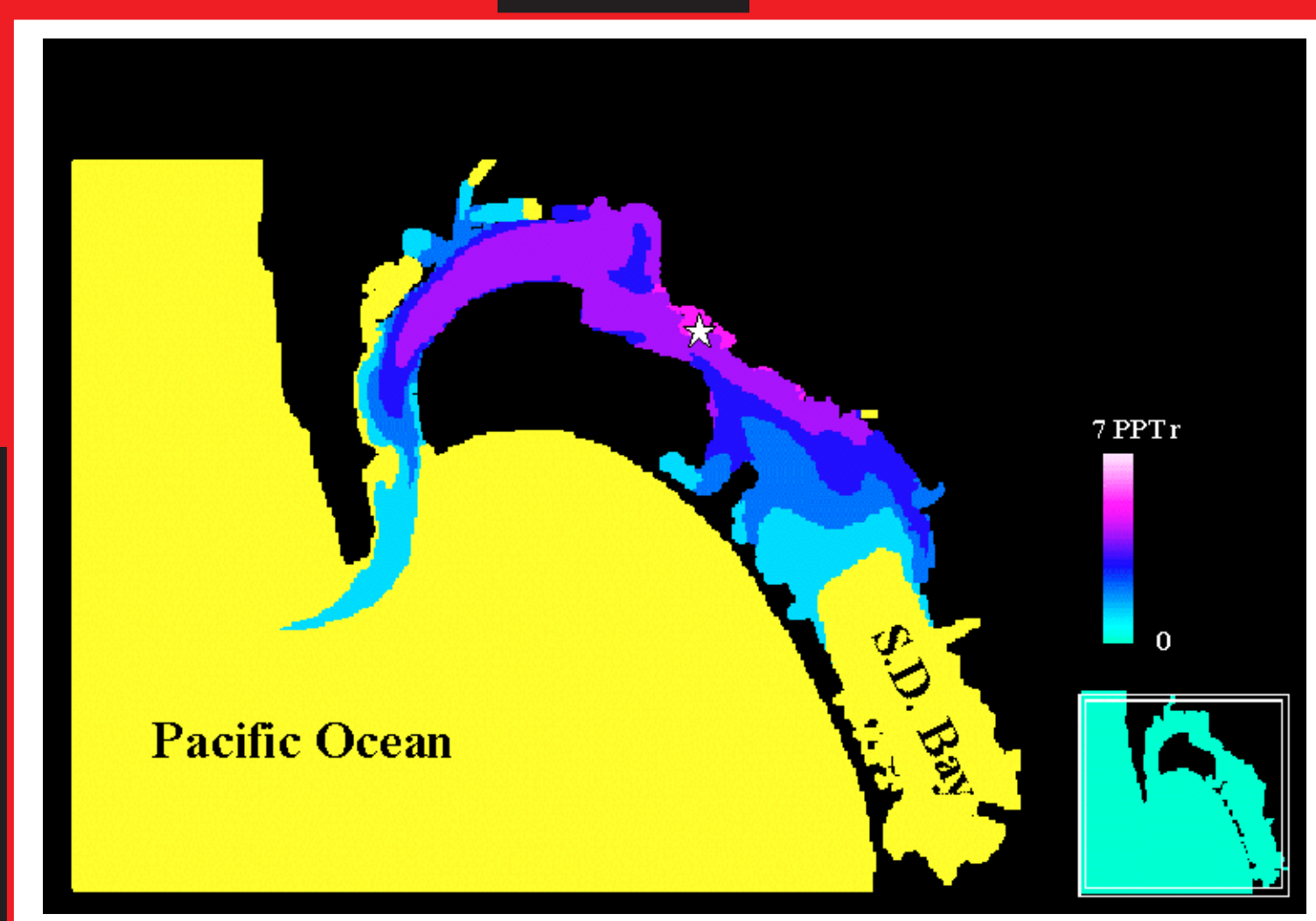
SSC San Diego survey craft RV ECOS

- Harbor/coastal mapping
- Model validation
- Remote sensing (sea truthing)
- Contaminant source evaluation

### Modeling and Simulation

Develop predictive capabilities to quantify contaminant fate and transport in aquatic systems

- Linked hydrodynamic/contaminant transport models
- Watershed modeling
- Oil spill trajectory and fate nowcast
- Contaminated sediment transport and resuspension



Simulated copper contamination in San Diego Bay at day 21 following a continuous design discharge at the starred location.

### Ecological Risk Assessment (ERA)

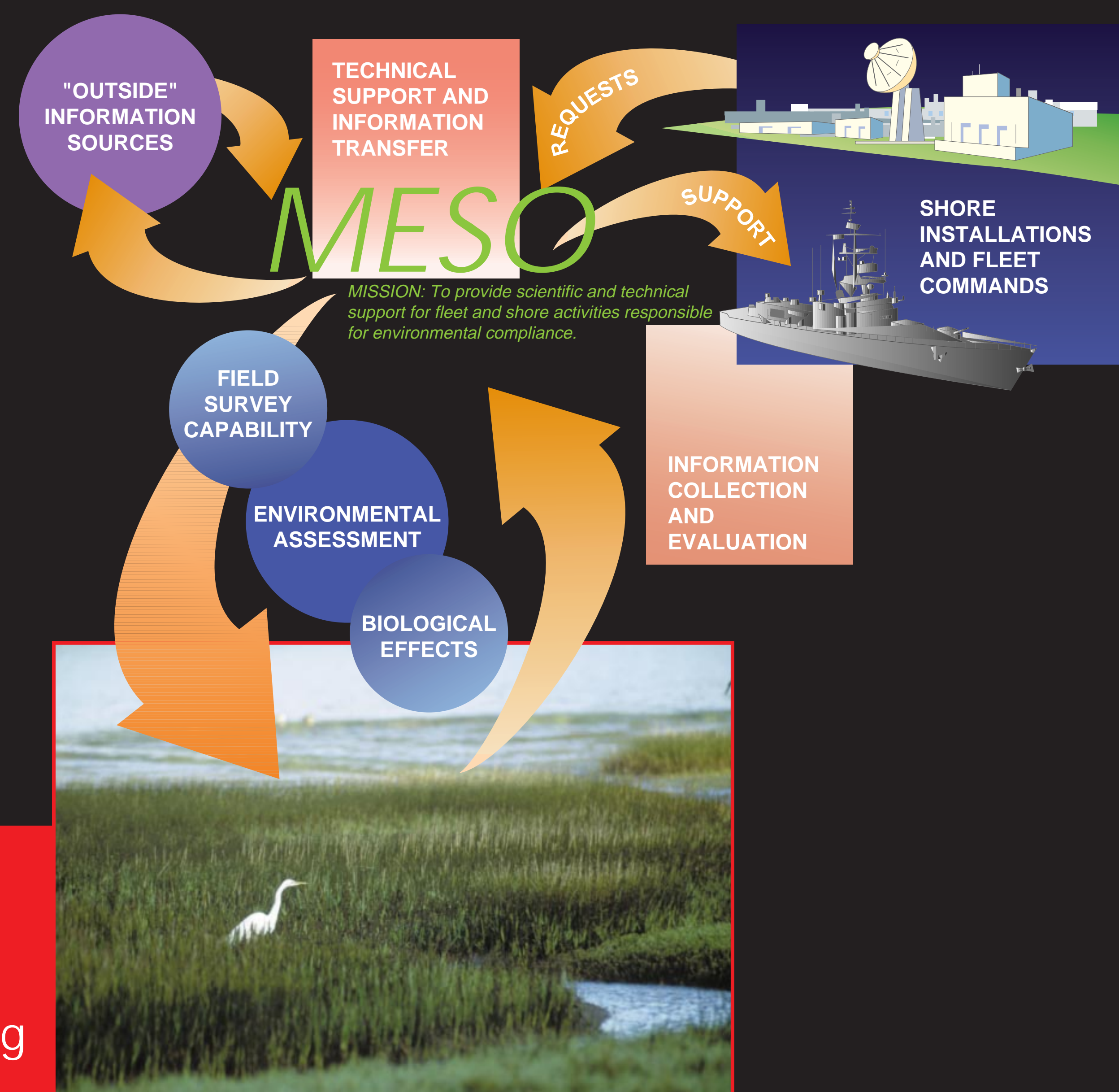
- Develop ERA methods and standard operating procedures
- Optimize and integrate cost effective assessment tools
- Site specific case studies

### Program Sponsorship

- Office of Naval Research
- Naval Facilities Engineering Command
- Naval Sea Systems Command
- Strategic Environmental Research and Development Program
- Environmental Security Technology Certification Program

## Marine Environmental Support Office

An office of the Naval Environmental Protection Support Services



### Providing Direct Environmental Support to Navy Fleet and Facilities

- Resource Center for technical and scientific queries
- Direct support for environmental restoration (RI/FS) and compliance programs
- Environmental data integration and management
- Assessment of shipboard liquid and solid wastes