

COASTMAP is a customizable PC-based integrated system for marine and freshwater environmental monitoring, modeling, analysis, and management in a geographical context.

APPLICATIONS

- Environmental data management
- Analysis
- Visualization and education
- Linkage to hydrodynamic, pollutant, spill, and water quality models
- Monitoring
- Internet-based data distribution

COASTMAP HIGHLIGHTS

- ▶ Framework can be customized for any monitoring and modeling project
- ▶ Direct links to In water and meteorological sensors, and large-scale models

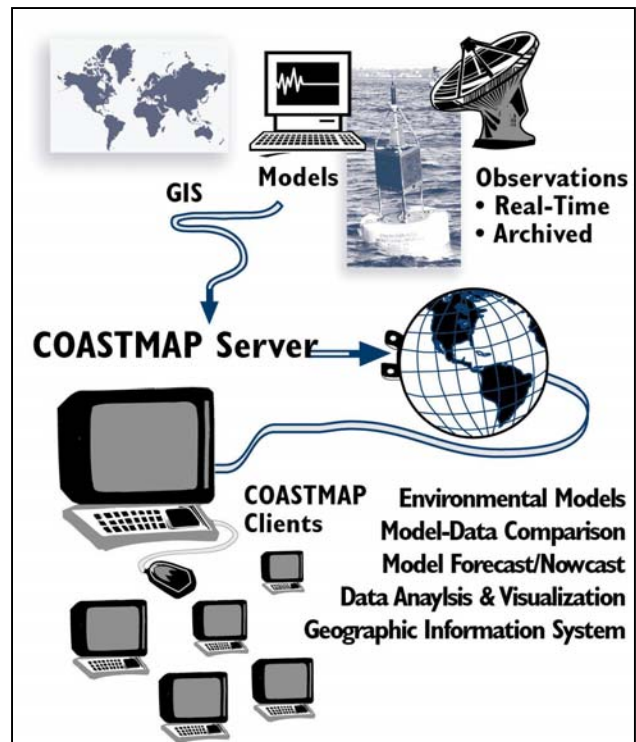
FEATURES

- Real-time data access using communication protocols based upon Internet standards
- Access to regional data servers containing real-time systems and archived data
- Local, regional, and basin scale model nowcasts and forecasts
- Quality control of collected data
- Data distribution for river, lake, estuary and coastal waters
- Interactive GIS containing data applied to any fresh or marine aquatic environment
- Animation of contoured data or model predictions
- Perform a suite of common data analysis functions:
 - Filtering
 - Power spectrum
 - Demeaning
 - Removal of spurious data
 - Harmonic analysis
 - Qualitative and quantitative time series analyses
 - Data tree structure of available data



DATA COLLECTION, TRANSMISSION, ARCHIVING, AND ANALYSIS

- Import, export, and manipulation of real-time or historical environmental data
- Sharing of data with commercial GIS applications such as ArcInfo®, ArcView® and MapInfo®
- Analysis Tools
- Statistical parameters
- Time series analysis (power spectra)
- Correlation (auto and cross)
- Harmonic decomposition and composition allows tidal constituent analysis

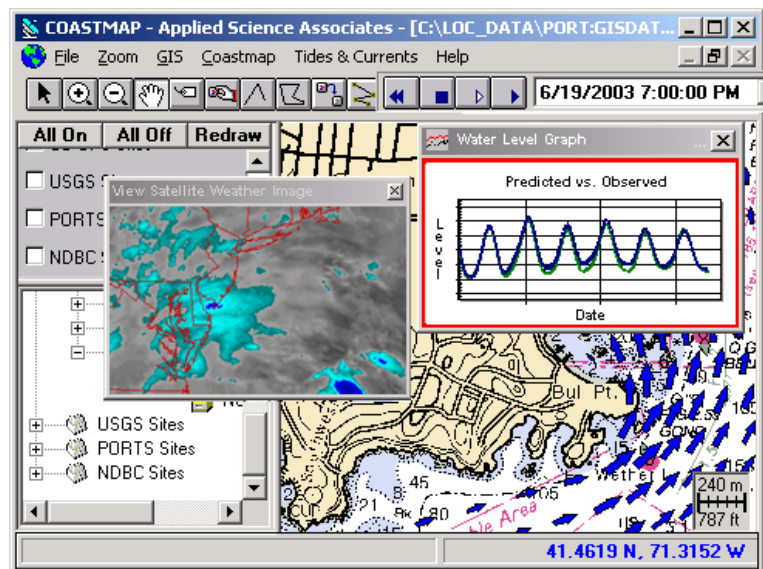


ENVIRONMENTAL MODELING

- Optional linkage to process models such as
 - Land use or non point source loading models
 - Water quality models (estimate indicator levels)
 - Hydrodynamic models (estimate water level and currents)
- Animation of contoured data or model predictions to allow the user to view temporal and spatial changes simultaneously

DISTRIBUTED DATA SOURCES

- Real time systems
- User field programs
- Archived data
- Model output
- National Weather Service (NWS) forecasts
- NOAA Buoys
- NOAA PORTS
- NOAA meteorological models
- USGS river data
- ASA forecasting system



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