

Program Updates & Strategic Plan Progress

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Hydrographic Services Review Panel

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CO-OPS FY15-19 Strategic Plan Goals

I. Customer Service

Demonstrate a customer-centered operating model that responds to emerging customer requirements and feedback.

II. Integrated Observing System

Develop one cohesive observing system with integrated products and services that are responsive to evolving customer needs.

III. Advanced Products and Services

Continually improve and evolve CO-OPS products and services to meet customer needs and keep pace with rapid changes in requirements, technologies, and media.

IV. Human Capital and Infrastructure

Align our organization's workforce, resources, and infrastructure to consistently deliver high-quality and cost effective products and service.



Customer Service

- **New customers**
 - Reinsurance Association of America, Water Quality Boards
- **Customer engagement**
 - Engagement Strategy
 - LA/Long Beach Project
 - Gulf of Mexico outreach
 - Modeling workshop

Future priorities:

- Gulf of Mexico next steps
- Additional modeling meetings
- Identifying new customers



Customer Service

- **Technical Assistance and Training**
 - Building community practices around water level observations and data analysis
 - Training series - In person course “Working with Water Level Data”
 - Videos, decision support materials, and job aids



Customer Service

- **Educating customers to increase utility of CO-OPS products**
 - IOOS RAs
 - USACE natural and nature-based engineering
 - South Florida Compact
 - Community engagement on new Regional Sea Level Trends and Scenarios Tech Report
 - “Nuisance” flooding education and outreach

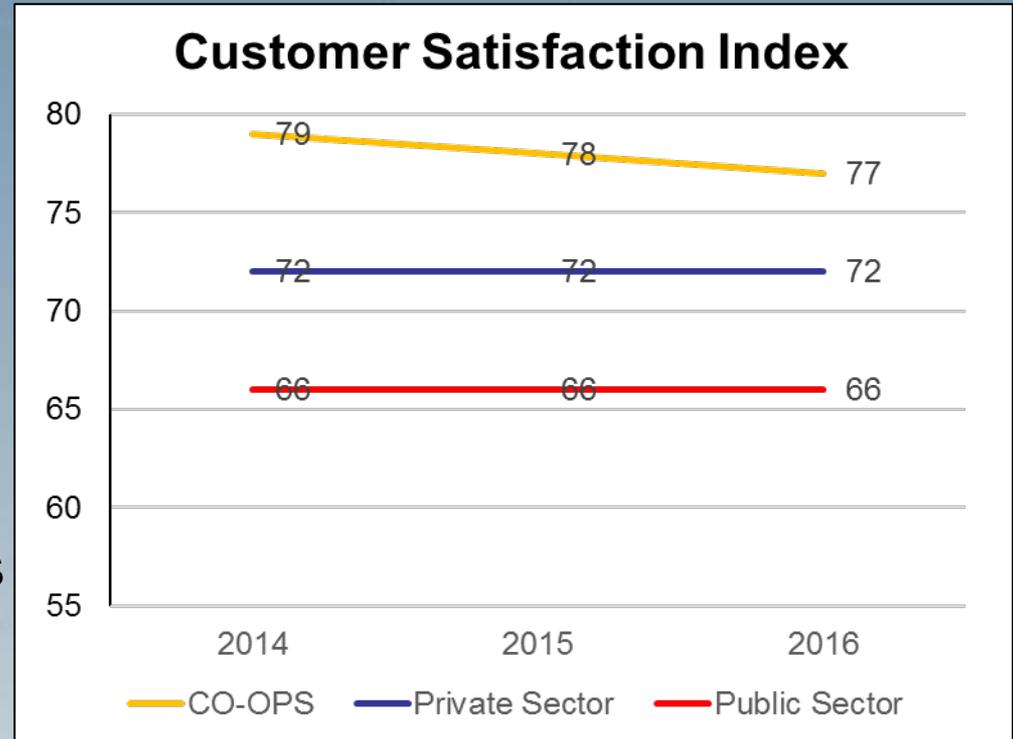


Customer Service

- **Website improvements**
 - ForeSee surveys
 - Customer Satisfaction Index
 - Added GIS capabilities
 - Homepage update

Future priorities:

- Continuing website updates
- Improving functionality of products



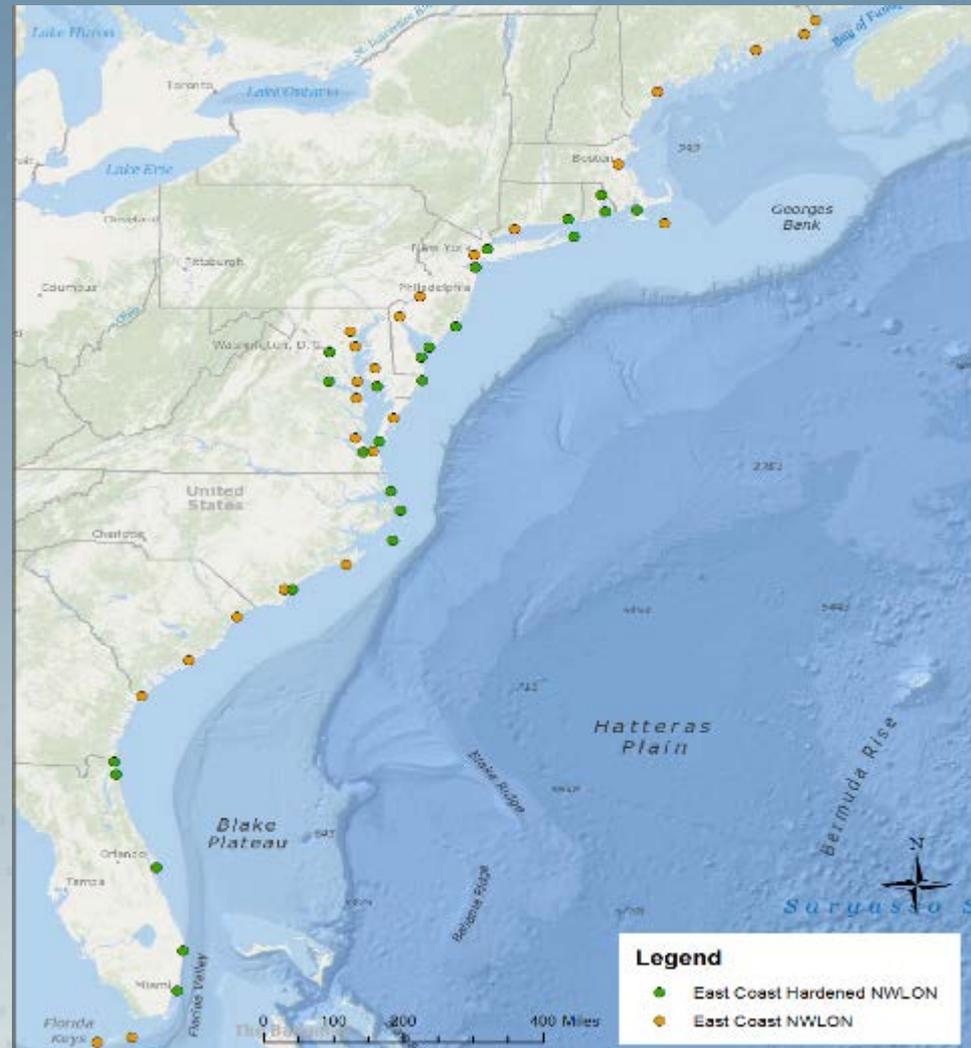
Integrated Observing Systems

- **NWLON enhancement and filling gaps**

- Partnerships with USGS, NERRS, NPS, TCOON, IOOS, NWS
- Station hardening
- Co-location of CORS
- Low-cost tide gauge study

- **Future priorities:**

- Local-to-national integration of networks (implementing tiered data policy, commercialize low-cost tide gauge)

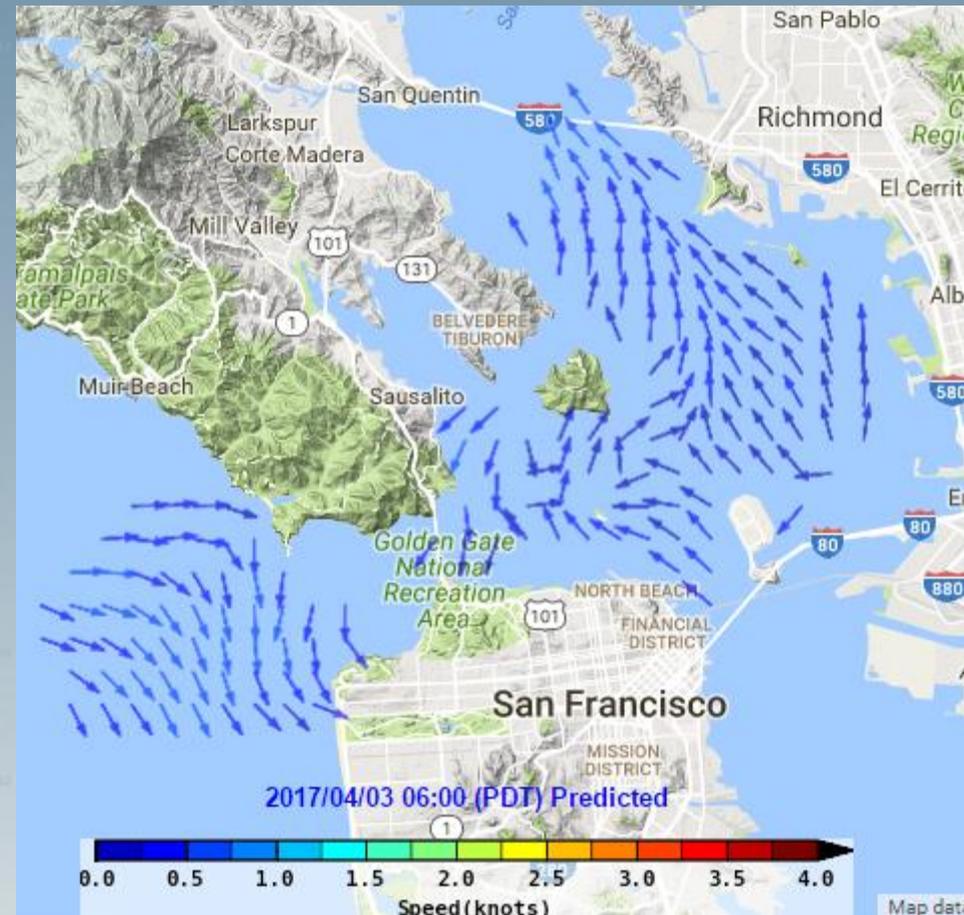


Integrated Observing Systems

- **PORTS®**
 - 28 PORTS® in network
 - 5 pending: Matagorda, Miami, Corpus Christi, Port Everglades, King's Bay
 - New partnerships to integrate products (IOOS HFR)

Future priorities:

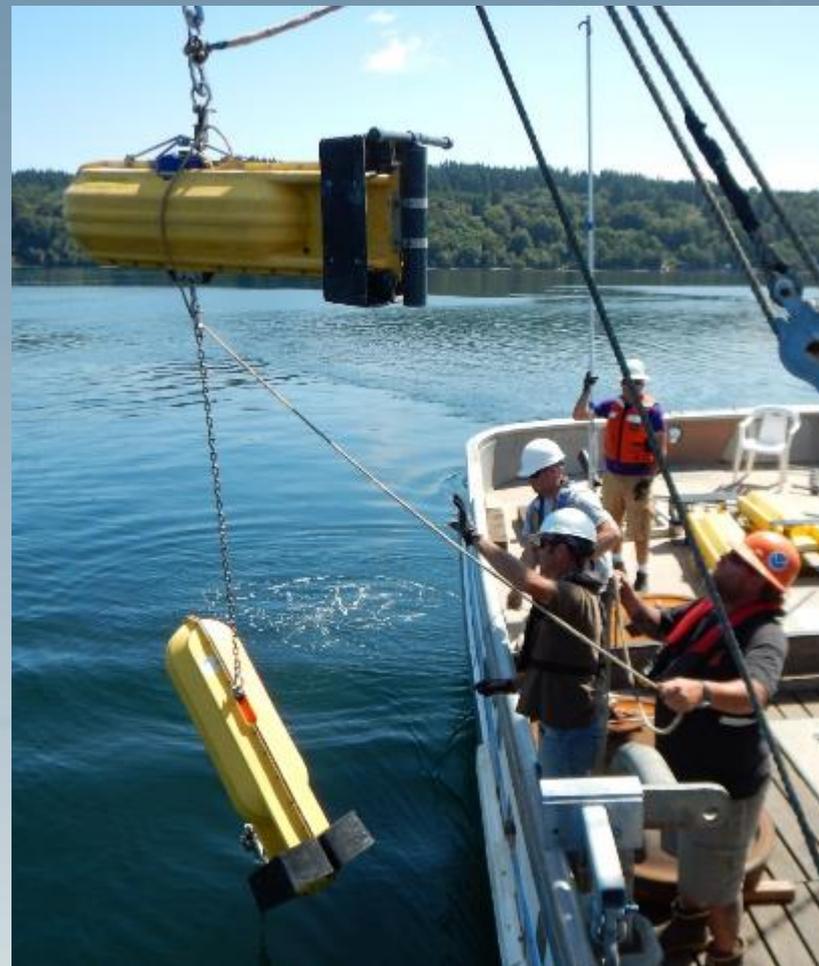
- PORTS® over AIS
- Sustainable business model for PORTS®



Integrated Observing Systems

- **Tidal Current Surveys**

- Surveys: Casco Bay, Puget Sound (3-year survey), Cape Fear



Future priorities: 5 year plan:

FY17: Puget Sound Phase 3 and recon of NY/NJ Harbor

FY18: South Texas and Columbia River – Newport, OR

FY19: Nantucket Sound, MA and Isanotski Strait/AK Peninsula

FY20: Central Texas and LA/Long Beach, Port Hueneme & Santa Barbara



Integrated Observing Systems

- **Technology development and infusion**

- Microwave water level transition
- iATON current system
- Hermit
- GPS buoy (tri-office)

- **Future priorities:**

- Hermit with real-time capability
- Continuous GPS
- Waves from MWWL and current meters

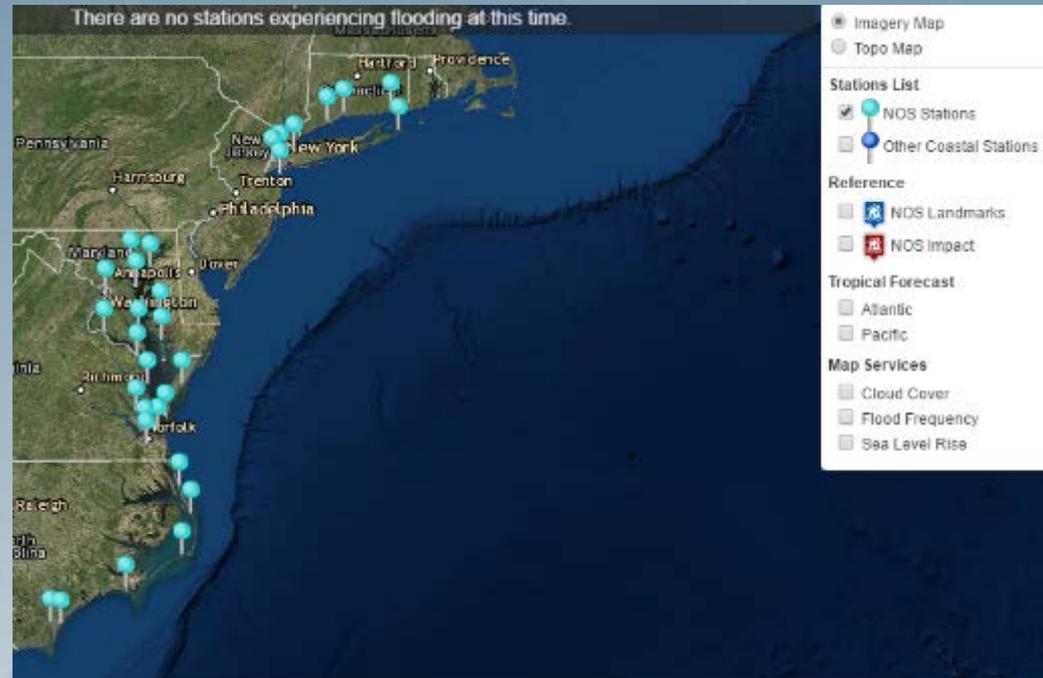


Advanced Products and Services

- **Coastal Preparedness**
 - Nuisance flooding reports
 - Coastal Inundation Dashboard and upgrade of Storm QuickLook
 - High Tide Bulletin

Future priorities:

- Apply regional sea level trends and scenarios to products
- Continue Dashboard expansion and enhancement



Advanced Products and Services

- **International Great Lakes Datum Update**
 - Bilateral plan completed
 - Seasonal gauging
 - Data collection started (FY17-23)

Future priorities:

- Publish and educate IGLD update
- Tidal datum epoch update



Advanced Products and Services

- **VDatum**
 - Surveys: short-term gauges installed in NE, Pacific NW
 - Models: South Atlantic Bight, San Francisco Bay



Future priorities:

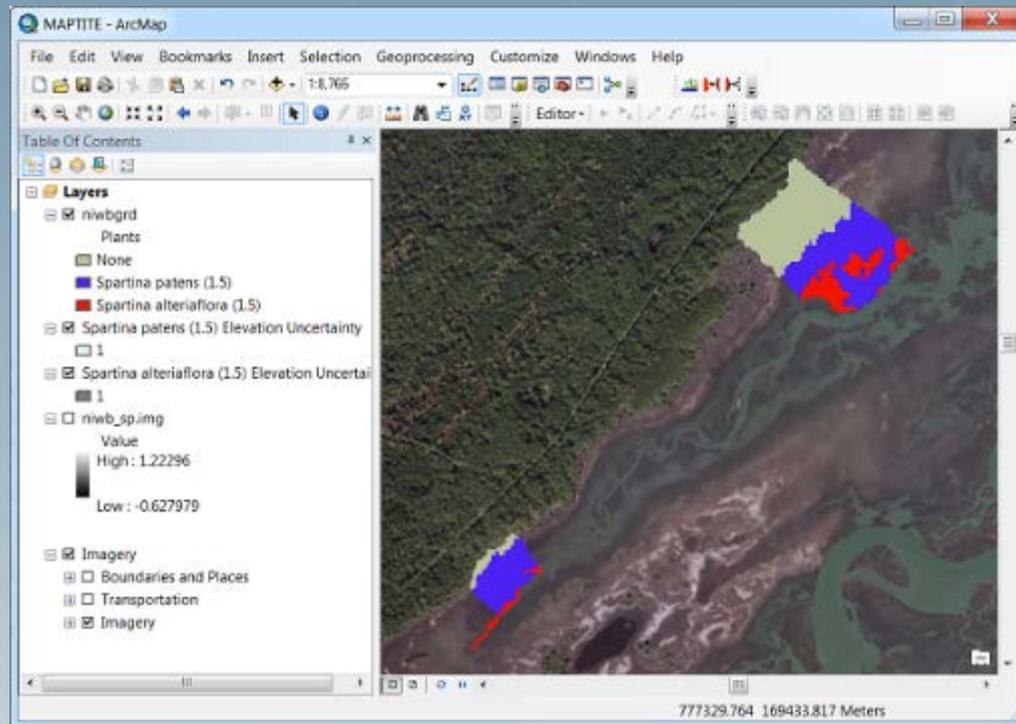
- Additional models and surveys (IGLD)

Advanced Products and Services

- **New tools:**
 - Water Level Processing Interface
 - Datums Calculator
 - MAPTITE

Future priorities:

- Water level processing interface for tiered data



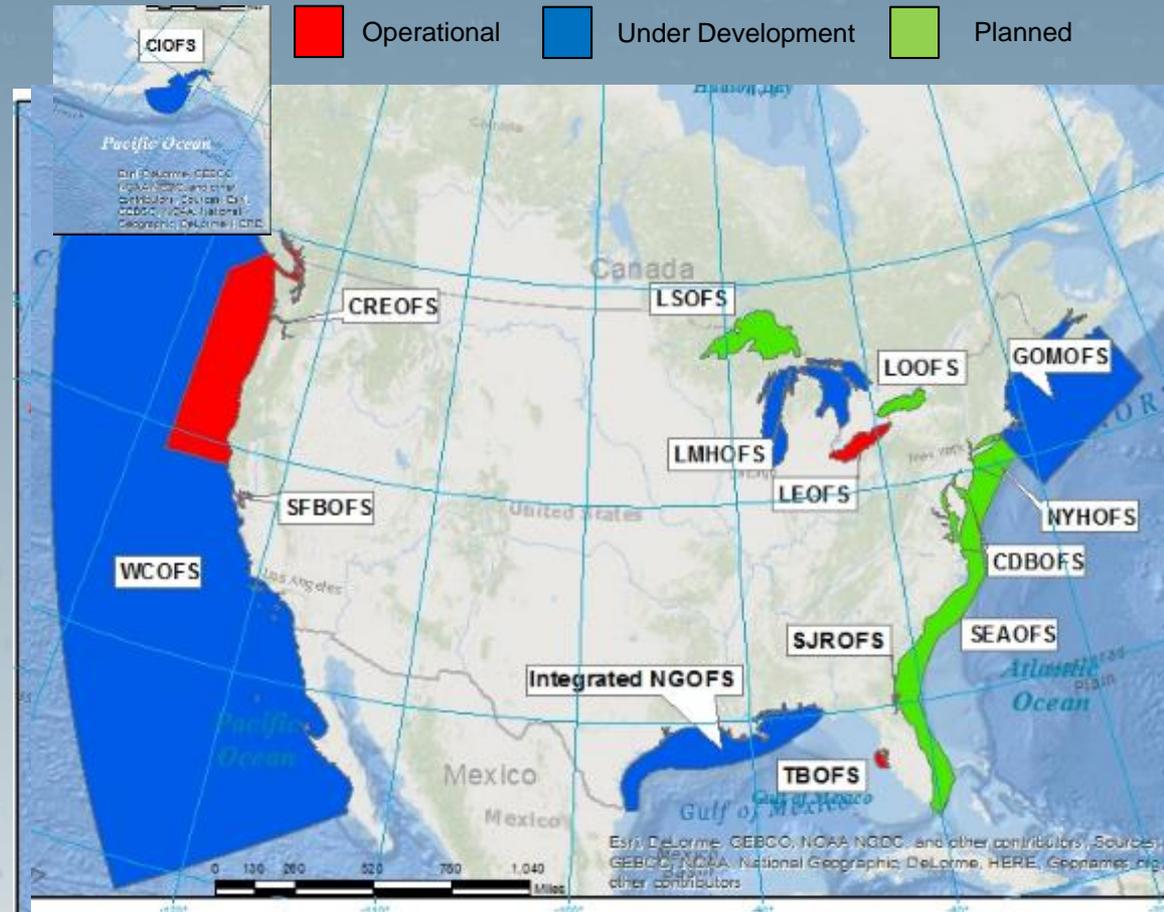
Advanced Products and Services

- **Modeling**

- Existing suite
- New paradigm for CONUS coverage
- NCEP collaboration

- **Future priorities:**

- Complete upgrades
- NWS integration
- Real-time data assimilation
- Ice module



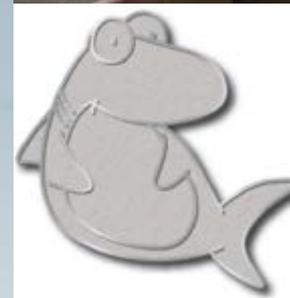
Human Capital and Infrastructure

- **Human Capital**
 - FY14 and FY16 Organizational Health Surveys and Action Plans
 - Training and recognition
 - Onboarding
 - Communications

- Diversity and Inclusion

Future priorities:

- Measure effectiveness of CO-OPS action plans
- Support NOAA/NOS diversity and inclusion plans



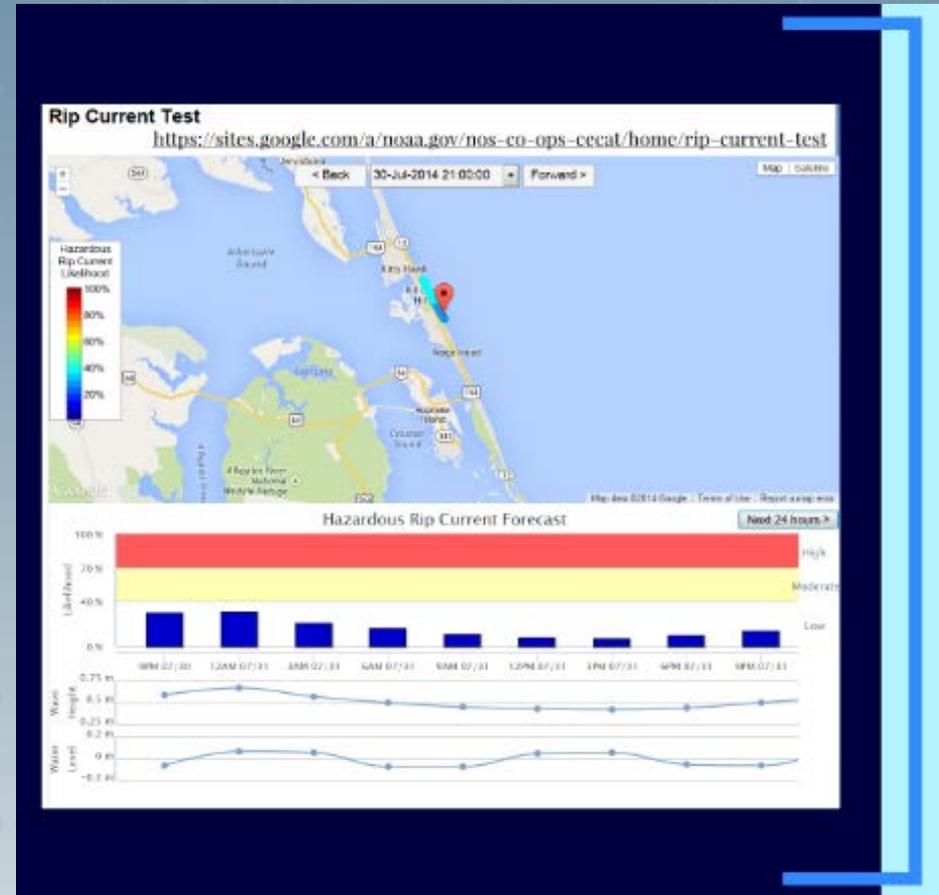
Human Capital and Infrastructure

- Reliable Operating System completion
- KEEP training program
- Environmental Compliance
- Sustainability Roadmap



Human Capital and Infrastructure

- **IT Infrastructure**
 - Re-engineering the Information Architecture within CO-OPS (RIAC)
 - Sandbox capability
 - Legacy system modernization
 - Cyber security





NOAA CO-OPS Partnerships

4

Societal Benefits



Safety and efficiency at ports



Coastal preparedness



3

Product Distribution



Privately-published Tide Tables

3rd party apps/research/models/reports

Tide Table Manuscripts

NOAA Digital Distribution (Website, Web Services)

2

Product Development



Predictions/Datums

Real-time Data

Forecast Data

NOAA Data Ingest and Quality Control

1

Data Collection



National Water Level Observation Network

National Current Observation Program

Physical Oceanographic Real-Time System

Ocean Technology Vendors

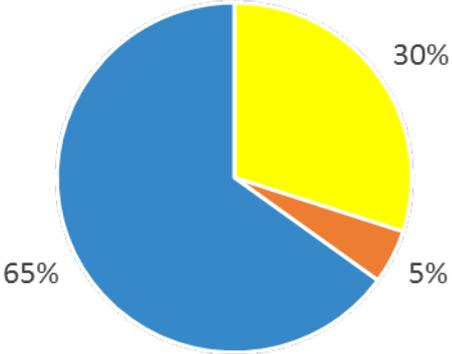
NOAA in-house

External to NOAA

Partnerships

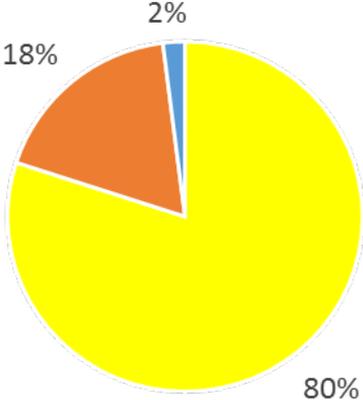
Contracts

Appropriated Dollars



■ Contracts ■ Equipment ■ Other

Reimbursable Dollars



■ Contracts ■ Equipment ■ Other

Grand Challenges

- **Filling demands for water level needs**
 - NWLON gaps
 - Local requirements
 - Partnership challenges
- **Sustainable business model for PORTS®**
 - Program oversubscribed
 - New administration
 - Exploring alternatives



Questions

