

Digital Coast: An Award Winning Partnership

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MAPPS & CSC

Partner to Build the Digital Coast

- QBS Contracting Workshop
- Session on CSC Contract Vehicle
- Session on IOCM
- Session on Award-Winning CSC Projects

MAPPS & CSC

Partner to Build the Digital Coast

- Testimony before Congress, calling the CSC Program and Partnership a “Best Practices” Model for Public (intra-agency and intergovernmental) - Private Partnership
- Sessions at MAPPS and Stakeholder Conferences

MAPPS & CSC

Partner to Build the Digital Coast

- Session to introduce the concept of Digital Coast legislation

MAPPS & CSC

Partner to Build the Digital Coast

NOAA Coastal Geospatial Services Contracts have the following characteristics:

- a broad scope of geospatial services;
- contracts awarded to multiple firms using the Brooks Act qualifications-based selection (QBS) process;
- an indefinite delivery/indefinite quantity (ID/IQ) method whereby task orders are awarded to firms on an as-needed basis, to serve each agency's own requirements as well as those requested by other government entities; and
- several prime contractors, supported by dozens of subcontractors



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Photo Science

Airborne and Satellite Data Acquisition Category Winner - 2010

MAPPS Geospatial Products and Services Excellence Awards

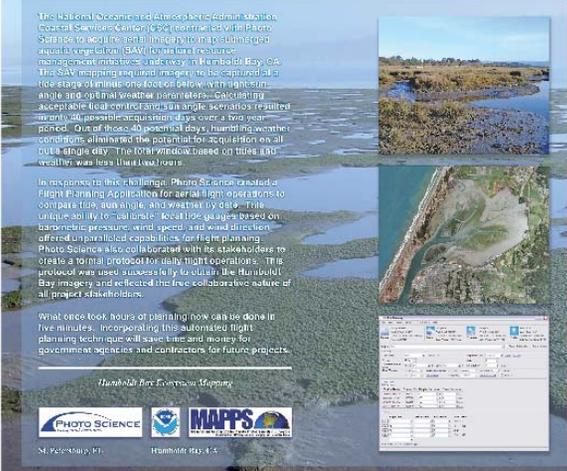
Planning for Perfect Weather
New Techniques in Airborne Data Acquisition

The National Oceanic and Atmospheric Administration's Coastal Services Center is seeking the best Photo Science to acquire aerial imagery of a submerged aquaculture facility (SAV) located in Humboldt Bay, CA. The SAV mapping required imagery to be captured at a tide stage of one to one foot or below, with high sun angle and optimal weather conditions. Conducting acceptable tidal conditions and sun angle scenarios resulted in only 30 possible acquisition days over a two-year period. Out of those 30 potential days, ideal weather conditions eliminated the potential for acquisition on all but a single day. The total window based on tides and weather was less than two hours.

In response to this challenge, Photo Science created a Flight Planning Application for aerial flight operations to conduct this unique and weather-dependent survey. Unique ability to "calibrate" local tide gauges based on barometric pressure, wind speed, and wind direction allowed for a critical capability for flight planning. Photo Science also collaborated with the stakeholders to create a formal protocol for daily flight operations. This protocol was used success fully to obtain the Humboldt Bay imagery and reflected the free collaborative nature of all project stakeholders.

What once took hours of planning now can be done in five minutes. Incorporating this automated flight planning technique will save time and money for government agencies and contractors for future projects.

Humboldt Bay Aerial Imagery Mapping



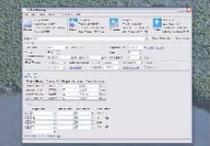



PHOTO SCIENCE
3612-10000, JPL
Humboldt Bay, CA

MAPPSS
MANAGEMENT ASSOCIATION FOR PRIVATE PHOTOGRAMMETRIC SURVEYORS
AN ASSOCIATION OF PHOTOGRAMMETRY, MAPPING, AND GEOSPATIAL FIRMS

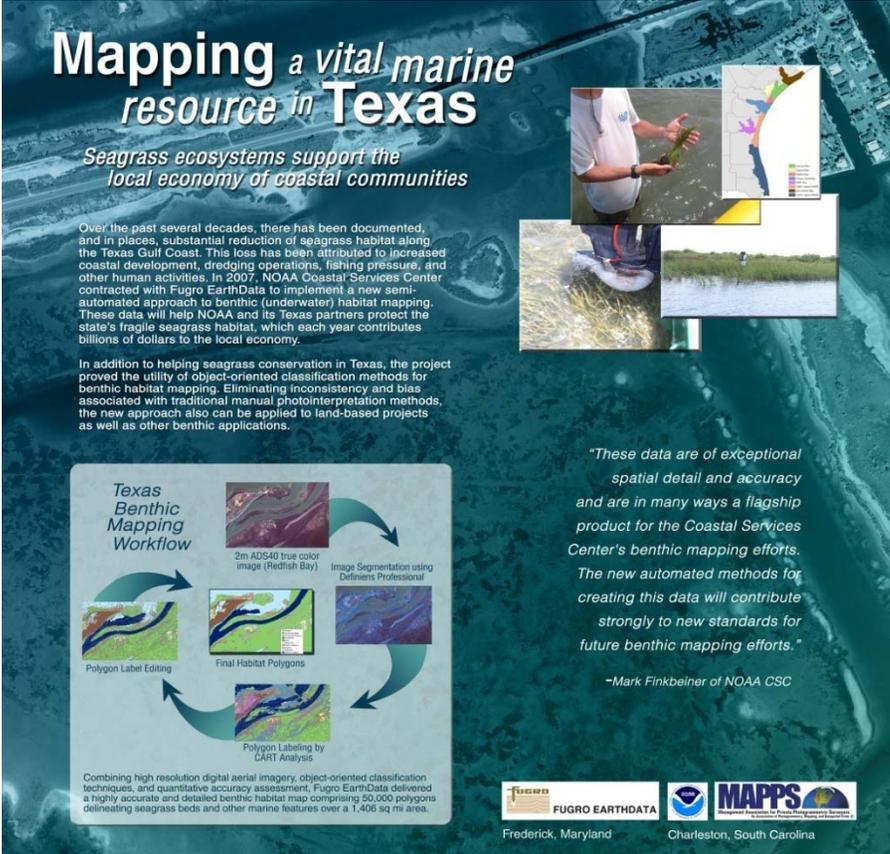
Category A: Airborne and Satellite Data Acquisition



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Fugro Earthata

Remote Sensing Category & Grand Award Winner - 2008



Mapping a vital marine resource in Texas

Seagrass ecosystems support the local economy of coastal communities

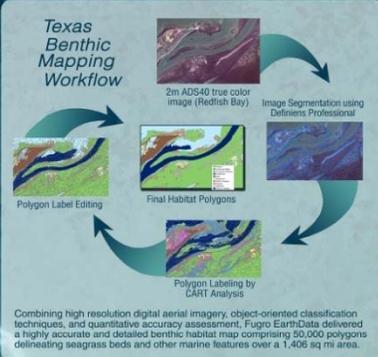
Over the past several decades, there has been documented, and in places, substantial reduction of seagrass habitat along the Texas Gulf Coast. This loss has been attributed to increased coastal development, dredging operations, fishing pressure, and other human activities. In 2007, NOAA Coastal Services Center contracted with Fugro EarthData to implement a new semi-automated approach to benthic (underwater) habitat mapping. These data will help NOAA and its Texas partners protect the state's fragile seagrass habitat, which each year contributes billions of dollars to the local economy.

In addition to helping seagrass conservation in Texas, the project proved the utility of object-oriented classification methods for benthic habitat mapping. Eliminating inconsistency and bias associated with traditional manual photointerpretation methods, the new approach also can be applied to land-based projects as well as other benthic applications.

"These data are of exceptional spatial detail and accuracy and are in many ways a flagship product for the Coastal Services Center's benthic mapping efforts. The new automated methods for creating this data will contribute strongly to new standards for future benthic mapping efforts."

—Mark Finkbeiner of NOAA CSC

Texas Benthic Mapping Workflow



Combining high resolution digital aerial imagery, object-oriented classification techniques, and quantitative accuracy assessment, Fugro EarthData delivered a highly accurate and detailed benthic habitat map comprising 50,000 polygons delineating seagrass beds and other marine features over a 1,400 sq mi area.

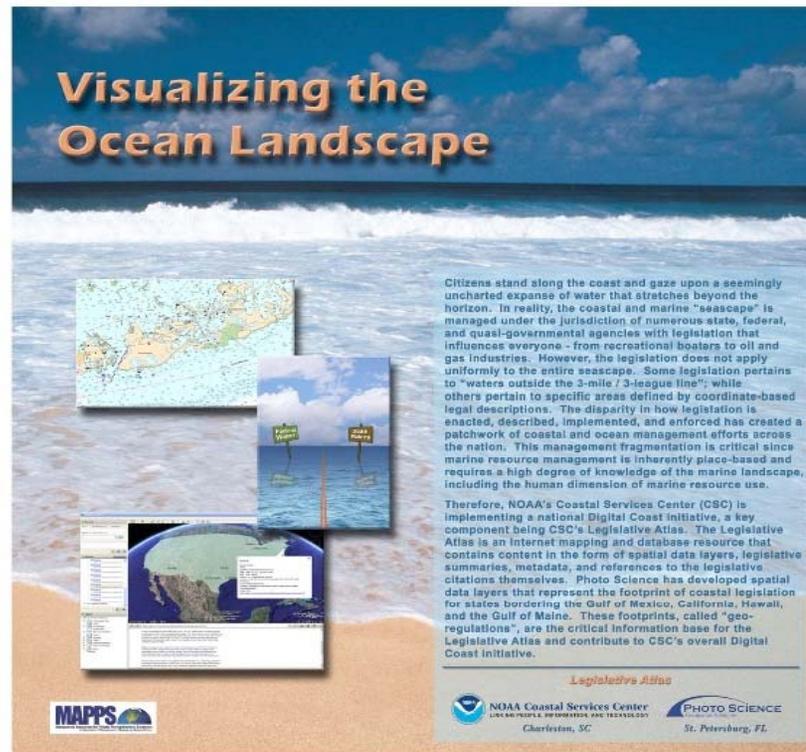
FUGRO EARTHDATA
Frederick, Maryland

MAPPS
Charleston, South Carolina

Photo Science

GIS/IT Category Winner - 2008

MAPPS Geospatial Products and Services Excellence Awards



Category D: GIS / IT



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111TH CONGRESS
2^D SESSION

H. R. 6215

To authorize the Secretary of Commerce to establish a program to develop a coordinated and comprehensive Federal coastal mapping effort for the Nation's coastal zone to include all coastal State and territorial waters of the United States, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

SEPTEMBER 23, 2010

Mr. RUPPERSBERGER introduced the following bill; which was referred to the Committee on Natural Resources

A BILL

To authorize the Secretary of Commerce to establish a program to develop a coordinated and comprehensive Federal coastal mapping effort for the Nation's coastal zone to include all coastal State and territorial waters of the United States, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the "Digital Coast Act of
5 2010".

6 **SEC. 2. FINDINGS.**

7 The Congress finds that—



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H.R. 6215

Digital Coast Act of 2010

- the Secretary may enter into financial agreements including, but not limited to, grants, cooperative agreements, interagency agreements, and contracts with other Federal, tribal, State and local governmental and nongovernmental entities.

H.R. 6215

Digital Coast Act of 2010

- shallow bathymetric data;
- airborne elevation data;
- large-scale land use and land cover maps;
- benthic habitat and aquatic vegetation mapping;
- parcel data;
- planimetric data; and
- socioeconomic and human use data.

H.R. 6215

Digital Coast Act of 2010

- Coordinate with –
other Federal efforts, including the
- Ocean and Coastal Mapping Integration Act
- Coastal Zone Management Act
- Integrated Coastal and Ocean Observation System Act
- E-Government Act

H.R. 6215

Digital Coast Act of 2010

- Coordinate with –
- coastal States and United States territories;
- local governments; and
- representatives of nongovernmental entities;

H.R. 6215

Digital Coast Act of 2010

- utilization of contracts with the private sector, to the maximum extent practicable, to provide such products and services as are necessary to collect remote sensing and other geospatial data;

H.R. 6215

Digital Coast Act of 2010

- Authorizes \$100,000,000 for each of the fiscal years 2011 through 2016

Digital Coast Act of 2011

- Rep. Ruppertsburger to reintroduce
- Revisions to 2010 version
- House Republican Co-sponsor
- Senate Sponsor

Digital Coast Act of 2011

- **Offsets !!!**

Award Winning Partnership



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