



**National Coastal Population Report**  
*Population Trends from 1970 to 2020*

Explore coastal population trends from 1970 to 2020 in NOAA's National Coastal Population Report.



## Welcome

NOS Special Projects provides information, assessments, and tools in support of the collaborative coastal stewardship mission of the [National Ocean Service \(NOS\)](#) and its partners.

## What's New

With the dissolution of Special Projects expected by the end of Fiscal Year 2013, certain products and tools once hosted on this site will now be hosted directly by the NOS program office affiliated with the product or tool. In turn, points of contact on this site have been updated where appropriate. For more information, contact [Robby Wilson](#) or [Brent Ache](#).

### Focus Areas



## Focus Areas

GIS Tools and Assessments  
Socioeconomic Information for Coastal Managers  
Planning, Facilitation, & Training

## Extras

The Faces Behind the Work

## Link Information

## Contact Us

[special.projects@noaa.gov](mailto:special.projects@noaa.gov)  
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Silver Spring, MD 20910



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National Oceanic and Atmospheric Administration  
U.S. Department of Commerce  
Page revised July 22, 2013

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[User Survey](#)

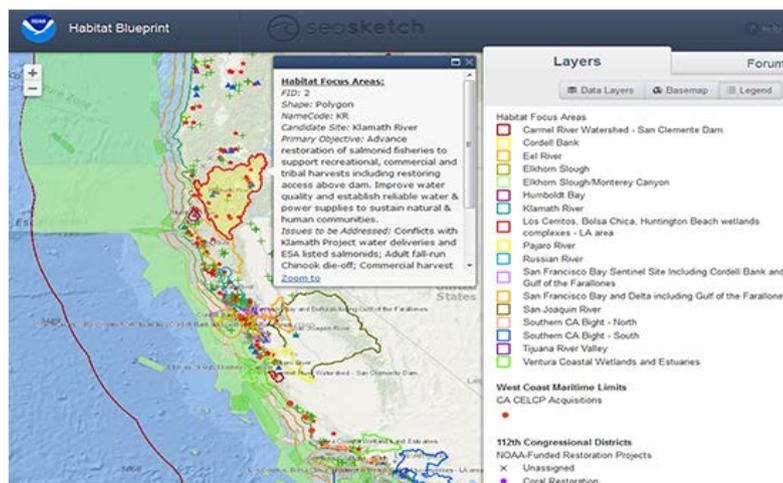
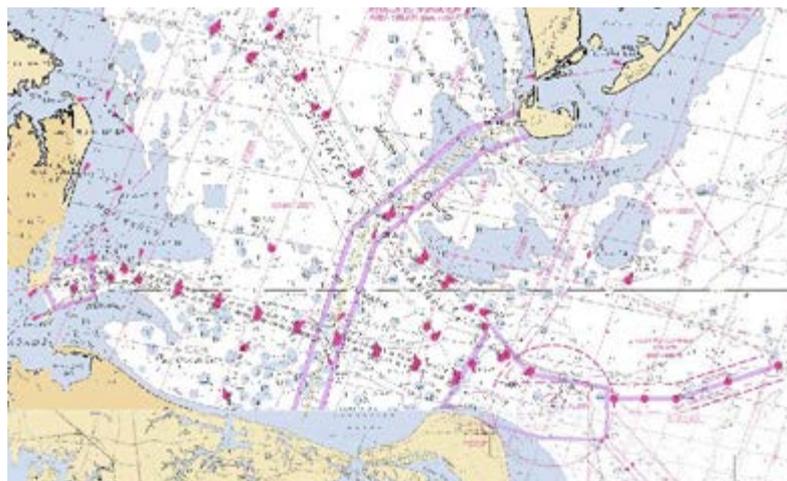
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### GIS Tools & Assessments

Special Projects provides a wide range of Geographic Information Systems (GIS)-based tools and services to support priority NOS issues, including: national- and state-level coastal and marine spatial planning (CMSP), and Integrated Ocean and Coastal Mapping (IOCM).

Sample tools and products, include:



**Coastal and Marine Spatial Planning Data Registry**  
National Oceanic and Atmospheric Administration

**Data Registry Help**  
NOAA's Coastal and Marine Spatial Planning (CMSP) Data Registry is a collection of Web-accessible NOAA geospatial data deemed essential for local, regional, or national level CMSP processes. Registry data sets are provided in a variety of formats accessible for download, and many can be easily previewed using ESR's new ArcGIS.com map viewer.

**Mashup** Check off the box below for data mash-up

**Elevation, Bathymetry, and Shoreline**

- Bathymetric Data for Select U.S. Estuaries
- Elevation Models (Global to Coastal)
- Community Elevation Models (land and seafloor topography)
- Regional Elevation Models (land and seafloor topography)
- Global Elevation Model
- Seafloor Topography (Multibeam Survey Data)
- Seafloor Topography (Various Survey Data)
- Seafloor Topography (NOAA Data for U.S. Nautical Charting)
- Medium Resolution Digital Vector Shoreline (1:80,000)

**Jurisdictional Boundaries and Limits**

Show more



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U.S. Department of Commerce  
Page revised July 22, 2013

## Extras

The Faces Behind the Work

## Link Information

Privacy Policy  
Disclaimer  
Information Quality  
Freedom of Information Act  
User Survey

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## Focus Areas

[GIS Tools and Assessments](#)  
[Socioeconomic Information for Coastal Managers](#)  
[Planning, Facilitation, & Training](#)



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[U.S. Department of Commerce](#)  
Page revised July 22, 2013

## Extras

[The Faces Behind the Work](#)

## Link Information

[Privacy Policy](#)  
[Disclaimer](#)  
[Information Quality](#)  
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## Planning, Facilitation, & Training

Special Projects designs and facilitates multi-stakeholder workshops and events, coordinates programmatic integration, develops strategic action plans, and provides facilitation training. Read more about [how to request SP facilitation services](#) (PDF, 1 page, 92 kB).

Sample projects and products, include:



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Web Site Owner: National Ocean Service  
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U.S. Department of Commerce  
Page revised July 22, 2013

## Extras

[The Faces Behind the Work](#)

## Link Information

[Privacy Policy](#)  
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[Information Quality](#)  
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[User Survey](#)

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## The Faces of Special Projects

## Office Phone Number

Special Projects is a division in the Management and Budget Office, one of eleven program offices in the National Ocean Service. The division is organized into two branches: the Integrated Planning and Technical Services Branch, and the Coastal Resources Assessments Branch. Staff are listed here alphabetically.

301-713-3000 (employee extensions listed below)



**Brent Ache**  
*Division Chief*

x111

SP Start Date: 8/11/2003

### Knowledge, Skills, Abilities:

Strategic assessments of coastal and ocean resource management issues, spatial data analysis, performance measures, indicator-based science outreach, and human dimensions of coastal management



**Darlene Bennett**  
*Secretary*

x167

SP Start Date: 8/11/2003

### Knowledge, Skills, Abilities:

Writing, Sharepoint database management, and office management for Special Projects (travel, correspondence, time & attendance, safety & security)



**Chris Clement**  
*Physical Scientist*

x147

SP Start Date: 2/12/1990\*

### Knowledge, Skills, Abilities:

GIS, coastal spatial analysis, coastal data synthesis and assessments, environmental database design and data management, natural resources management, and technical writing



**Erick Difiore**  
*Geographer and Software Engineer*

x159

SP Start Date: 7/7/2008

### Knowledge, Skills, Abilities:

Software engineering, GIS, remote sensing, spatial data modeling and analysis, and database design

**John Hayes**

### Knowledge, Skills, Abilities:



**Physical Scientist**

x206

SP Start Date: 3/1/1995\*

Coastal resource assessments, strategic planning, GIS, spatial data modeling and analysis, database design and development, website design, and writing



**Susan Holmes**

*Marine Resources Planning Specialist*

x158

SP Start Date: 7/6/2010

**Knowledge, Skills, Abilities:**

Project management and coordination, watershed-based and ecosystem-based management, ecosystem services assessments, ocean and coastal science and policy, regional coordination, policy writing, water resources, coastal oceanography, subtidal ecology, and GIS



**Stephanie Kavanaugh**

*Certified Professional Facilitator*

x146

SP Start Date: 8/18/2008

**Knowledge, Skills, Abilities:**

Facilitation, strategic planning, conflict resolution, public information, stakeholder engagement, and natural resource policy



**Percy Pacheco**

*Environmental Engineer*

x155

SP Start Date: 2/28/1988\*

**Knowledge, Skills, Abilities:**

Land-based sources of pollution, database and software engineering, modeling, GIS, project management, coastal resource analysis and assessments, and socioeconomic monitoring and analysis



**Nipa Parikh**

*Computer Specialist*

x205

SP Start Date: 6/3/1991\*

**Knowledge, Skills, Abilities:**

GIS, database and software engineering, ArcIMS development, and .NET Web applications



**Eric Segerson**

*Database Manager*

x106

SP Start Date: 9/1/2004

**Knowledge, Skills, Abilities:**

Database and website design, software engineering, GIS, remote sensing, programming, and graphic and digital arts

**Robby Wilson**

*Branch Chief*

x120

SP Start Date: 1/15/2003

**Knowledge, Skills, Abilities:**

GIS, database and software engineering, data visualization, bathymetry, Vdatum, spatial databases, and nautical charting



**Robb Wright**  
*Geographer*

x118

SP Start Date: 1/12/2004

**Knowledge, Skills, Abilities:**

GIS, remote sensing, and modeling

\* Includes time spent in SP predecessor office prior to the existence of Special Projects

## Focus Areas

GIS Tools and Assessments  
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Page revised April 24, 2013

## Extras

[The Faces Behind the Work](#)

## Link Information

[Privacy Policy](#)  
[Disclaimer](#)  
[Information Quality](#)  
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NOAA'S STATE OF THE COAST

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**GIS Tools & Assessments**



**Socioeconomic Information for Coastal Managers**



**Planning, Facilitation, and Training**

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GIS Tools and Assessments  
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### Extras

The Faces Behind the Work

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Page revised July 22, 2013

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## Focus Areas

Special Projects applies its skills and talents to three focus areas, listed below. To learn more about these focus areas, click on the following links:

Focus Areas



### Focus Areas

- [GIS Tools and Assessments](#)
- [Socioeconomic Information for Coastal Managers](#)
- [Planning, Facilitation, & Training](#)



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Page revised February 16, 2012

### Extras

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- [Privacy Policy](#)
- [Disclaimer](#)
- [Information Quality](#)
- [Freedom of Information Act](#)
- [User Survey](#)

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## Special Projects Privacy Policy

### Index

- [The Big Picture](#)
- [Information Protection](#)
- [Information That You Voluntarily Provide](#)
- [How Information is Used](#)
- [Sharing of Information](#)
- [Retention of Information](#)
- [Links to Other Sites](#)
- [Cookies](#)
- [Interaction with Children](#)
- [Third-Party Tools:](#)
  - [Google Analytics](#)
  - [Google Earth/Google Maps](#)

### More information about the Privacy Act

### NOAA Privacy Policy

### The Big Picture

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- The Internet domain (for example, "xcompany.com" if you use a private Internet access account, or "yourschool.edu" if you connect from a university's domain);
- Your IP address (an IP address is a number that is automatically assigned to your computer whenever you are surfing the Web) from which you access our website;
- The type of browser and operating system used to access our site;
- The date and time you access our site;
- The pages you visit; and
- If you linked to our website from another website, the address of that website.

We use this information to help us make our site more useful to visitors—to learn about the number of visitors to our site and the types of technology our visitors use.

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For site security purposes and to ensure that this service remains available to all users, this government computer system employs software programs to monitor network traffic to identify unauthorized attempts to upload or change information, or otherwise cause damage. If such monitoring reveals evidence of possible abuse or criminal activity, such evidence may be provided to appropriate law enforcement officials. Unauthorized attempts to upload or change information on this server are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and the National Information Infrastructure Protection Act or other law.

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We do not collect personally-identifiable information unless you choose to provide it to us. If you provide us with personally identifiable information, for example by sending an e-mail or by filling out a form and submitting it through our website, we use that information only to respond to your message and to help us provide you with the information and services that you request.

Submitting voluntary information constitutes your consent to the use of the information for the stated purpose. When a user clicks the "Submit" button on any of the Web forms found on our site they are indicating voluntary consent to use of the information they submit for the stated purpose. We do not collect or use information for commercial marketing.

[\(top\)](#)

## How Information is Used

The information we collect is used for a variety of purposes (e.g., comments on proposed rules, license applications, to respond to requests for information about our regulations and policies and to fill orders). We make every effort to disclose clearly how information is used at the point where it is collected so that our users can determine for themselves whether they wish to provide the information.

## Sharing of Information

We may share the information you give us with another government agency if your inquiry relates to that agency. In other limited circumstances, such as responses to requests from Congress and private individuals, we may be required by law to disclose information you submit. Before you submit personally identifiable information, such as on an online form, you will be advised as to the purpose and how the information will be used.

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## Retention of Information

We destroy the information we collect when the purpose for which it was provided has been fulfilled unless we are required to keep it longer by statute or official policy. Electronically submitted information is maintained and destroyed according to the principles of the Federal Records Act and the regulations and records schedules approved by the National Archives and Records Administration, and in some cases information submitted to us may become an agency record and therefore might be subject to a Freedom of Information Act request.

## Links to Other Sites

This site may have links to the websites of other federal agencies. There may be links to private organizations, with their permission. Once you go to another site, you are subject to the privacy and security policies of the new site. It is always a good idea to read the Privacy Policy of any website that you visit. Specialprojects.nos.noaa.gov does not control or guarantee the accuracy, relevance, timeliness, or completeness of information contained in a linked site. We also do not endorse the organizations or individuals maintaining sites that we link to, any views they express, or any products/services they offer.

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[\(top\)](#)

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Special Projects maintains official pages or accounts on some third-party websites in order to better engage with the American public and promote awareness of Special Projects activities, events, news, and information (a list of these tools is highlighted below). Your activity on those third-party sites is governed by the security and privacy policies of the third party sites. Users of third-party sites are often sharing information with the general public, user community, and/or the third-party operating the third-party site. You should review the privacy policies of third-party sites before using them and ensure that you understand how your information may be used. You should also adjust privacy settings on your account on any third-party site to match your preferences.

For more information on content that you voluntarily submit on Special Projects third-party tools, please see our [comment policy](#).

### Google Analytics

This site uses [Google Analytics](#), a third-party web measurement and customization technology as defined and organized by the Office of Management and Budget (OMB), "[Guidance for Online Use of Web Measurement and Customization Technologies](#)" (OMB M-10-22). Google Analytics places a small file on your computer, commonly called a "cookie," so that it can recognize your computer if you visit specialprojects.nos.noaa.gov in the future. This cookie does not collect personal identifying information. This is considered a Tier 2 service in the OMB guidance.

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Visitors who choose to disable this web measurement will still have full access to specialprojects.nos.noaa.gov. While the details vary from browser to browsers, most modern browsers can be set up to accept, reject, or request user intervention when a site asks to set a cookie. Google Analytics uses a cookie that begins with: `_utm`

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## Focus Areas

[GIS Tools and Assessments](#)  
[Socioeconomic Information for Coastal Managers](#)  
[Planning, Facilitation, & Training](#)



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U.S. Department of Commerce  
Page revised January 23, 2013

## Extras

[The Faces Behind the Work](#)

## Link Information

[Privacy Policy](#)  
[Disclaimer](#)  
[Information Quality](#)  
[Freedom of Information Act](#)  
[User Survey](#)

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### Focus Areas

[GIS Tools and Assessments](#)  
[Socioeconomic Information for Coastal Managers](#)  
[Planning, Facilitation, & Training](#)



Web Site Owner: [National Ocean Service](#)  
National Oceanic and Atmospheric Administration  
U.S. Department of Commerce  
Page revised February 16, 2012

### Extras

[The Faces Behind the Work](#)

### Link Information

[Privacy Policy](#)  
[Disclaimer](#)  
[Information Quality](#)  
[Freedom of Information Act](#)  
[User Survey](#)

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## NOAA Historical Shoreline Survey Viewer

### What is a Shoreline Survey?

Shoreline surveys (also called coastal surveys, T-Sheets or TP-Sheets, and shoreline manuscripts) refer to topographic sheets compiled from maps derived in the field with a plane table, in the office from aerial photos, or a combination of the two methods. These shoreline surveys are the authoritative definition of the U.S. high-water line and may also include details such as roads, prominent buildings, and other features along the coast. The surveys were used as base maps to construct nautical charts primarily used for navigation.



[View NOAA Historical Shoreline Surveys in Google Earth](#)

### The NOAA Historical Shoreline Survey Viewer

The NOAA Historical Shoreline Survey Viewer provides access to a large number of historical shoreline surveys conducted by NOAA and its predecessor organizations. About 7,800 surveys—the earliest dating back to 1841—are available for viewing in Google Earth. In addition to overlaying a scanned image of the survey in Google Earth, the Viewer provides links to download: the original scan and metadata, the resulting extracted vector shoreline, and a descriptive report compiled by the survey team.

Note, many of the scanned surveys have large file sizes, which have been reduced to more manageable preview sizes for Google Earth. Also, some slight georeferencing issues may be noticed in the older shoreline surveys when viewed with the Google Earth imagery. If you have any questions about individual scans feel free to contact [special.projects@noaa.gov](mailto:special.projects@noaa.gov).



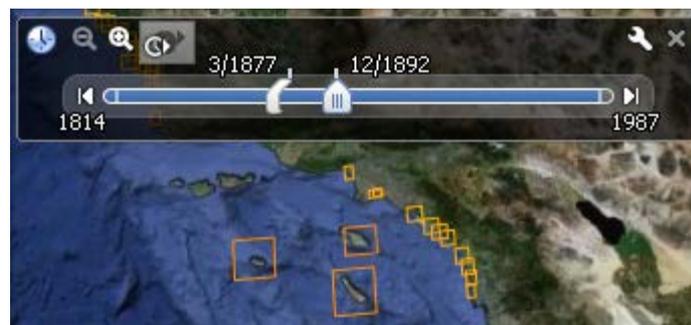
Survey from 1885 for Dana Point, CA

### Using the Shoreline Survey Google Earth Tool

A time slider is available in the upper-left corner. To see a specific time period, slide the handles to define the range of surveys shown in the Viewer.

Click on the outline of a survey to view survey information and to access the preview overlay and source downloads.

Click on the **Preview** link to view the preview version of the scan overlaid within Google Earth.

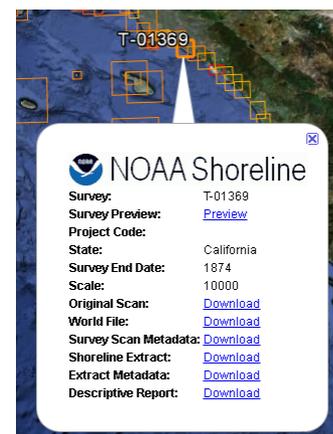


The **Original Scan** and **World File** go together. The World File provides location information for GIS applications, while the Original Scan provides the scan in its original format and original resolution. (examples: [scan](#), [world file](#)).

**Survey Scan Metadata** provides background information on how the scan was completed (example: [metadata](#)).

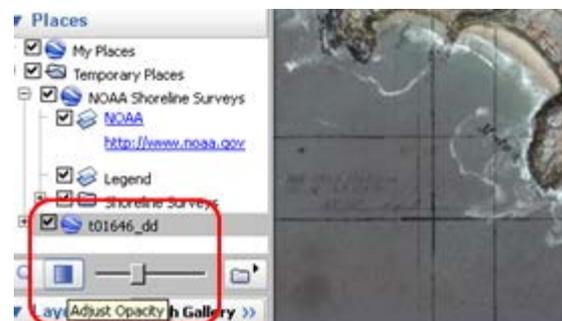
The purpose of the surveys was to create an accurate shoreline. Thus, the **Shoreline Extract** and **Extract Metadata** provide downloads of the vectors extracted from the scans, along with associated metadata. (example: [vectors](#), [metadata](#)).

The **Descriptive Report** provides detailed information from the surveyors (example: [T-4371](#)).



The transparency of the overlaid scan can be changed by selecting the scan in the Places panel and adjusting the opacity slider. This allows the most current Google Earth imagery to be visible with the shoreline survey.

Your computer video card's specific capabilities will determine how well Google Earth overlays the preview images. If the Max Texture Size reported in the About Google Earth dialog box (available under the Help menu) is less than 8000 x 8000, you may experience incomplete image overlays. We are working to resolve this issue to ensure all users can view the full image overlays.



## GIS File of the NOAA Historical Shoreline Survey Footprints

A GIS shapefile is available of the footprints for the georeferenced scans used in the Google Earth file. The GIS file contains full URLs to the georeferenced images, world files, descriptive reports, and metadata.

[Historical Shoreline Survey Footprints](#)

## The Complete T- and TP-sheet Shoreline Survey Scan Archive

The complete archive, which contains 16,200 scans, is available through the Non-georeferenced NOAA Shoreline Survey Scans link listed below. The archive lists the original source scans and includes index map catalogs. Of the 16,200 scans, 7,800 were georeferenced and made available through the Google Earth tool. There are no plans to georeference the remaining 8,400 scans. [Non-georeferenced NOAA Shoreline Survey Scans](#)

## Shoreline Survey Online References

The NOAA Shoreline Website has detailed information about the various shoreline products NOAA offers:

<http://shoreline.noaa.gov>

Many more surveys have been created than are scanned and available through this tool. For more information about the shoreline surveys, see [http://beta.ngs.noaa.gov/shoreline\\_raster](http://beta.ngs.noaa.gov/shoreline_raster)

FGDC metadata record for the scanned shoreline surveys:

[http://www.ncddc.noaa.gov/approved\\_recs/nos\\_de/ngs/ngs/ngs/t\\_sheet.html](http://www.ncddc.noaa.gov/approved_recs/nos_de/ngs/ngs/ngs/t_sheet.html)



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U.S. Department of Commerce  
Page revised July 15, 2013

## Extras

The Faces Behind the Work

## Link Information

Privacy Policy  
Disclaimer  
Information Quality  
Freedom of Information Act  
User Survey

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## Facilitation Services

Organized within the National Ocean Service (NOS), the Special Projects division provides the NOS Assistant Administrator a technical staff resource to advance NOS Headquarters-level strategic priorities by coordinating across multiple Program Offices and developing innovative tools, products, and services. Special Projects works with NOS partners to design and facilitate multi-stakeholder collaborative processes including workshops and staff retreats, and to provide facilitation training.

**What is Facilitation?** Facilitation is the process of guiding groups through a collaborative process towards specific goals or outcomes.

**What Does a Facilitator Do?** A facilitator is a “content-neutral” professional who designs collaborative processes for effective meetings. This includes helping the meeting leader plan a detailed agenda prior to the meeting. During the meeting, a facilitator ensures that **meeting objectives are met and that all voices are heard.**



### Special Projects' Facilitation Services Include:

- Assisting with the identification of the purpose, scope, and deliverables of the meeting by working with a small planning team prior to the event.
- Guiding the group through processes designed to help them listen to each other and create shared solutions.
- Taking notes of main points on a flip chart during the meeting, and typing them up afterwards.
- Collaborating with you to develop a meeting summary report.
- Evaluating meeting success.

### Special Projects' Facilitation Services Do NOT Include:

- Arranging meeting locations or participant travel.
- Purchasing meals, snacks, or coffee.
- Taking comprehensive, word-by-word meeting minutes.



### Your Role as Meeting Leader:

- Identification of participants and preparation of background materials.
- Arrangement of and payment for all logistics (e.g. meeting location, food, and drinks).
- Meet regularly with Special Projects staff to develop the meeting agenda and objectives.
- Production of final report.

### For More Information or to Request Facilitation Support, Contact Us:

If you are interested in obtaining facilitation services from Special Projects, contact: [Alison.Hammer@noaa.gov](mailto:Alison.Hammer@noaa.gov)  
Depending on the size and complexity of your meeting, 2-3 months may be needed to plan a successful meeting. Please contact us as early as possible to ensure that we can give you the best support.

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