

Usability Test Scripts for External Users

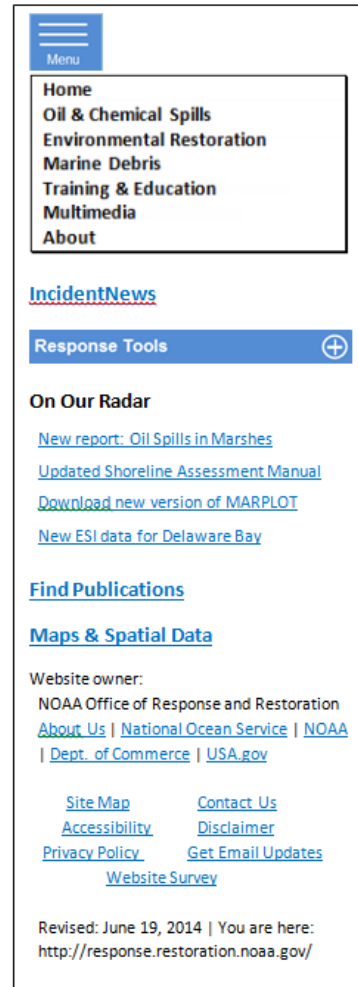
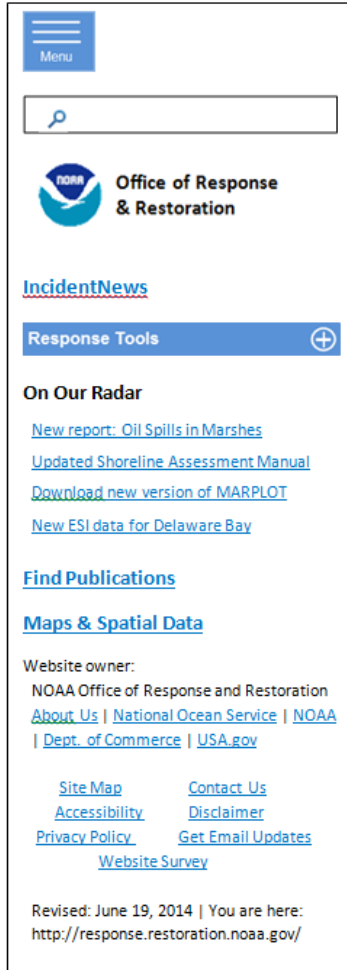
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Task 2. Incident Meteorologist/National Weather Service needs background on how NOAA is generally involved in responding to oil spills.....	7

Task 1: Firefighter on a HAZMAT team has heard that there's a new version of CAMEO's mapping program.

User clicks Menu:

Mobile Homepage:



User clicks Oil & Chemical Spills (in Main Menu):

Oil and Chemical Spills

Every year NOAA responds to more than a hundred oil and chemical spills in U.S. waters, which threaten life, property, and public natural resources....

[Oil Spills](#)

During an oil spill in coastal waters, OR&R's role is to provide scientific support to the U.S. Coast Guard....In addition to [spill response software and mapping tools](#)....

[Chemical Spills](#)

Chemicals can be an important part of manufacturing valuable economic goods—but they can also create dangerous situations...

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Chemicals can be an important part of manufacturing valuable economic goods—but they can also create dangerous situations if accidentally released. OR&R develops several free tools, such as the [CAMEO software suite](#), to help emergency responders and planners assess hazardous material releases and protect public health and safety.

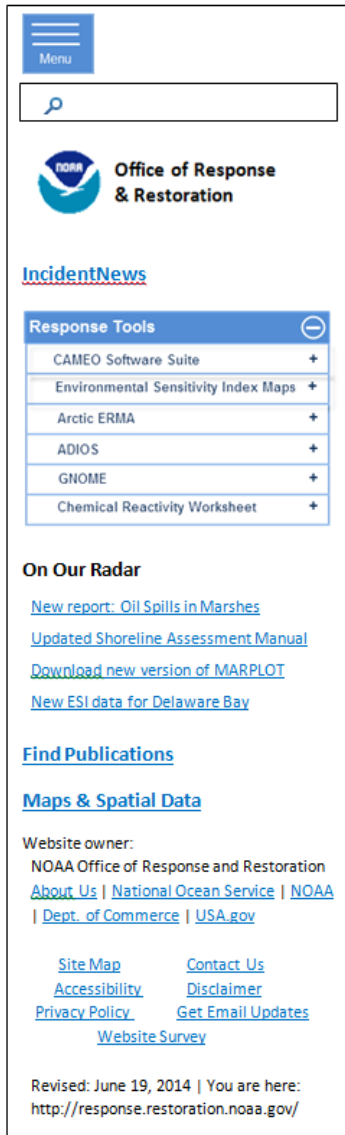
[Response Tools](#)

Some of OR&R's more widely distributed chemical spill response tools include the CAMEO software suite ([CAMEOfm](#), [CAMEO Chemicals](#), [ALOHA](#), and [MARPLOT](#)), a group of programs used by first responders and planners to help them prepare for and deal with hazmat emergencies. In addition, responders and planners can use the [Chemical Reactivity Worksheet](#), a program that allows you to see what reactions might occur when pairs of chemicals are mixed together.

[Resources](#)

Emergency responders (as well as programmers developing tools for use with the [CAMEO software suite](#)) can find an assortment of helpful guides, software tools, and training information ...

User drops down Response Tools menu



The screenshot shows the NOAA Office of Response & Restoration website. At the top left, there is a blue 'Menu' button. Below it is a search bar with a magnifying glass icon. The NOAA logo and the text 'Office of Response & Restoration' are displayed. Underneath is a link for 'IncidentNews'. A 'Response Tools' dropdown menu is open, showing a list of tools with expand/collapse icons (+/-):

Response Tools	
CAMEO Software Suite	+
Environmental Sensitivity Index Maps	+
Arctic ERMA	+
ADIOS	+
GNOME	+
Chemical Reactivity Worksheet	+

Below the menu are sections for 'On Our Radar' with links to reports and manuals, 'Find Publications', 'Maps & Spatial Data', and website information including owner details, navigation links, and a revision date of June 19, 2014.

User clicks CAMEO Software Suite:

CAMEO Software Suite

The CAMEO (Computer-Aided Management of Emergency Operations) software products have been valuable hazardous materials response and planning tools since the first products were introduced in 1986....

CAMEO Software Suite: Core Programs

CAMEOfm: A database applicationto assist with data management requirements under the Emergency Planning and Community Right-to-Know Act (EPCRA)....

CAMEO Chemicals: A program that allows you to search for chemicals in the CAMEO chemical database, print customized reports with response recommendations, and find out how chemicals would react if they mixed....

ALOHA: A modeling application that estimates threat zones associated with hazardous chemical releases, including toxic gas clouds, fires, and explosions.

MARPLOT: A mapping program with which you can easily view and modify maps, and you can also create your own objects.

CAMEO Software Suite: Related Software

The Chemical Reactivity Worksheet: A program that allows you to see what reactions might occur when pairs of chemicals are mixed together...

Tier2 Submit: A program that generates an electronic chemical inventory Tier II facility report, which can be used to automatically update the facility information in CAMEOfm...

User clicks MARPLOT:

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MARPLOT is a mapping program. With MARPLOT's easy-to-use GIS interface, you can quickly view and modify maps, and you can create your own objects to place on the maps...

You can also customize your view by drawing your own objects on the map...

As part of the CAMEO software suite, MARPLOT can be used with other programs in the suite: responders can link overlay objects to the CAMEOfm database program and easily display ALOHA threat zones....

Accessing MARPLOT

MARPLOT is developed jointly by NOAA and the Environmental Protection Agency (EPA)...

[MARPLOT Program](#): Download MARPLOT from the EPA CAMEO site.

MARPLOT and Environmental Sensitivity Index (ESI) Maps

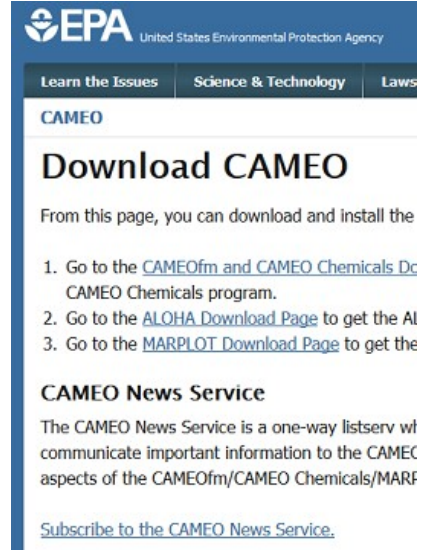
You can also use MARPLOT to display ESI maps...

More Information about MARPLOT

[MARPLOT Fact Sheet](#) [PDF, 948 KB]: Learn more about basic features of MARPLOT...

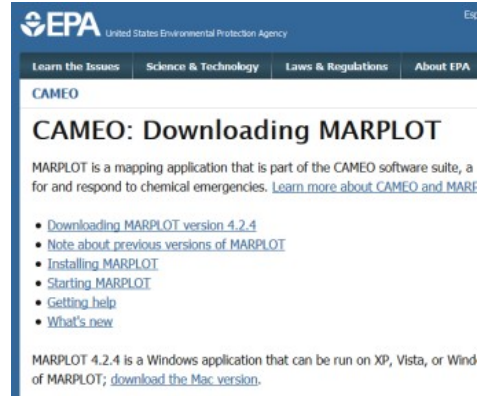
[MARPLOT Technical Documentation](#): Download a document (from the EPA CAMEO site) that describes the technical details of the program...

User clicks MARPLOT Program:



The screenshot shows the EPA CAMEO website. The header includes the EPA logo and the text 'United States Environmental Protection Agency'. Below the header is a navigation bar with links for 'Learn the Issues', 'Science & Technology', and 'Laws'. The main content area is titled 'CAMEO' and features a large heading 'Download CAMEO'. Below this heading, it states 'From this page, you can download and install the' followed by a numbered list: 1. Go to the [CAMEOfm and CAMEO Chemicals Dc](#) CAMEO Chemicals program. 2. Go to the [ALOHA Download Page](#) to get the ALOHA program. 3. Go to the [MARPLOT Download Page](#) to get the MARPLOT program. Below the list is a section titled 'CAMEO News Service' with a description: 'The CAMEO News Service is a one-way listserv w/ communicate important information to the CAMEO aspects of the CAMEOfm/CAMEO Chemicals/MARF'. At the bottom of this section is a link: [Subscribe to the CAMEO News Service.](#)

User clicks MARPLOT Download Page:



The screenshot shows the EPA CAMEO website. The header includes the EPA logo and the text 'United States Environmental Protection Agency'. Below the header is a navigation bar with links for 'Learn the Issues', 'Science & Technology', 'Laws & Regulations', and 'About EPA'. The main content area is titled 'CAMEO' and features a large heading 'CAMEO: Downloading MARPLOT'. Below this heading, it states 'MARPLOT is a mapping application that is part of the CAMEO software suite, a for and respond to chemical emergencies. [Learn more about CAMEO and MARPLOT.](#)' followed by a bulleted list: • [Downloading MARPLOT version 4.2.4](#) • [Note about previous versions of MARPLOT](#) • [Installing MARPLOT](#) • [Starting MARPLOT](#) • [Getting help](#) • [What's new](#). At the bottom of the page, it states 'MARPLOT 4.2.4 is a Windows application that can be run on XP, Vista, or Windows 7. For more information, see the [MARPLOT User Manual](#); [download the Mac version.](#)'

User clicks MARPLOT Fact Sheet:

NOAA's National Ocean




MARPLOT®

MARPLOT (Mapping Application for Response, Planning, and Local Operational Tasks) is the mapping program for the CAMEO® software suite.

With MARPLOT's easy-to-use GIS interface, you can quickly view and modify maps, and you can create your own objects.

MARPLOT is developed jointly by the National Oceanic and Atmospheric Administration (NOAA) and the U.S. Environmental Protection Agency (EPA).



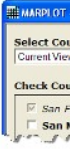
ALPHA threat zone (near the chemical facility object) displayed on a sample MARPLOT map.

Key Program Features


- Switch quickly between three basemaps: standard map files, aerial photos, and topographical maps.
- Get population estimates.
- Get information about basemap features.
- Link overlay objects to the CAMEO® database program.
- Easily display ALOHA threat zones.
- Customize your view by drawing your own objects on the map and specifying which basemap layers are shown.

Switch Between Additional Layers

MARPLOT's standard map layers at the top of the MARPLOT window will allow you to switch between map layers to view additional information.



MARPLOT also provides a mapping service. However, you can store maps on your computer.



A MARPLOT map of California. An aerial basemap, and red lines indicate roads and

User clicks CAMEOfm:

CAMEOfm

CAMEOfm (Computer-Aided Management of Emergency Operations) is a database application (with eight modules) designed to help first responders and emergency planners access and manage crucial chemical property and emergency response information for hazardous chemical releases.....

...ALOHA, MARPLOT, and CAMEO Chemicals can also be used independently of the CAMEOfm interface.

Accessing CAMEOfm

CAMEOfm is developed jointly by NOAA and the Environmental Protection Agency (EPA), and it runs on both Mac and Windows computers.

CAMEOfm Program: Download CAMEOfm from the EPA CAMEO site.

More Information about CAMEOfm

[CAMEO Fact Sheet](#) [PDF, 758 KB]:

Learn more about basic features of the four core CAMEO suite programs in this CAMEO fact sheet.

CAMEO News Service: Join the [CAMEO News Service e-mail list](#) on the [EPA CAMEO site](#) to receive news and other helpful information from the development team.

[CAMEO Companion](#) [PDF, 13 MB]:

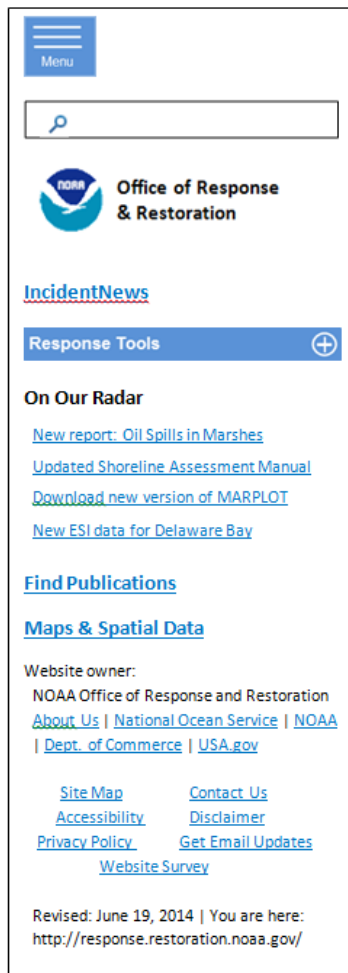
Learn more about working with all of the CAMEO suite products with the CAMEO Companion, a written help resource...

[CAMEO Software Suite:](#) Find out more about the four core programs—and several related programs—in the CAMEO software suite.....

Questions: [Contact us](#) with questions, comments, or suggestions about CAMEO.

Task 2. Incident Meteorologist/National Weather Service needs background on how NOAA is generally involved in responding to oil spills.

Mobile Homepage:



User clicks [New report: Oil Spills in Marshes](#)

[Add when this report is posted online](#)

User clicks [Find Publications](#)

Publications

NOAA's Office of Response and Restoration has prepared a number of job aids, reports, and publications to help people deal with spills of oil and petroleum products. Use the links below to learn more about these free resources.

[ALOHA Example Scenarios](#)

To build your knowledge of ALOHA and MARPLOT, download this training document...

[Characteristics of Response Strategies: A Guide for Spill Response Planning in Marine Environments](#)

This job aid is designed to help spill responders select appropriate response options...

[Dispersant Application Observer Job Aid](#)

This field guide serves as a refresher for people who have completed training in dispersant application observation....

[Oil Types](#)

Learn about the many different kinds of oil, which differ from each other in viscosity, volatility, and toxicity.....

[Open Water Oil Identification Job Aid for Aerial Observation](#)

This job aid contains aerial color photos of oil on water to assist in identification of thickness, structure, and estimated volumes of oil on the water.

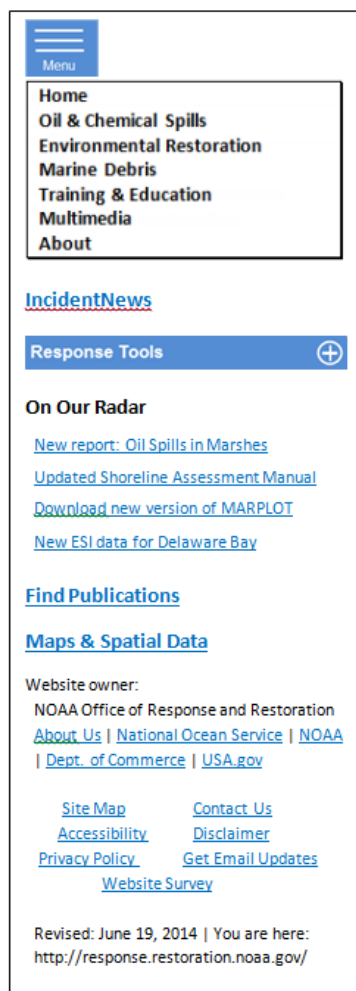
[Trajectory Analysis Handbook](#)

This 2002 guide describes the basic concepts involved in analyzing the trajectory of spilled oil.

[Characteristic Coastal Habitats: Choosing Spill Response Alternatives](#)

This is a job aid designed for anyone who needs to decide if, where, when, and how to remove oil from coastal habitats.

User clicks Menu:



The screenshot shows a web page with a blue 'Menu' button at the top left. Below it is a dropdown menu with the following items: Home, Oil & Chemical Spills, Environmental Restoration, Marine Debris, Training & Education, Multimedia, and About. Below the menu are links for Incident News, a blue 'Response Tools' button with a plus icon, and a section titled 'On Our Radar' containing four links: 'New report: Oil Spills in Marshes', 'Updated Shoreline Assessment Manual', 'Download new version of MARPLOT', and 'New ESI data for Delaware Bay'. Further down are sections for 'Find Publications' and 'Maps & Spatial Data'. At the bottom, there is a 'Website owner:' section with links to 'NOAA Office of Response and Restoration', 'About Us', 'National Ocean Service', 'NOAA', 'Dept. of Commerce', and 'USA.gov'. A footer section contains links for 'Site Map', 'Contact Us', 'Accessibility', 'Disclaimer', 'Privacy Policy', 'Get Email Updates', and 'Website Survey'. The page is dated 'Revised: June 19, 2014' and includes the URL 'http://response.restoration.noaa.gov/'.

User clicks Training & Education:

Training and Education

NOAA's Office of Response and Restoration (OR&R) offers educational resources for teachers and students, as well as various workshops and self-study options to spill response professionals in local, state, and federal governments and industry.

The goal of this training is to transfer scientific expertise and experience to the broadest possible audience...

Training

Each year, OR&R provides extensive training to approximately a thousand individuals in industry and government on the scientific aspects of oil and chemical spill response...

Register now for our popular [Science of Oil Spills class](#) or build your knowledge of spill and chemical accident response on your own, using our [job aids and publications](#).

Questions? Contact the [Training Specialist](#).

[Education: For Students and Teachers](#)

Explore an ocean's-worth of information related to our efforts to protect and restore the nation's waters from pollution. You'll find experiments and activities for elementary school students and life-long learners alike....

User clicks Oil & Chemical Spills (in Main Menu):

Oil and Chemical Spills

Every year NOAA responds to more than a hundred oil and chemical spills in U.S. waters, which threaten life, property, and public natural resources....

[Oil Spills](#)

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The NOAA Gulf of Mexico Disaster Response Center (DRC) is the newest addition...

User clicks [Oil Spills](#)

Oil Spills

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[Response Tools](#)

To better prepare response communities for oil spills, OR&R develops several software and map tools for spill response and planning. These include [GNOME](#), a trajectory forecasting tool; [ADIOS](#), an oil weathering model; [Environmental Sensitivity Index \(ESI\) maps](#), that identify vulnerable resources and habitats; and [ERMA®](#), a GIS-based tool that consolidates key response data...

[Resources](#)

OR&R also publishes many of its guidelines for emergency responders and planners as small, field-oriented job aids. Find electronic versions of these [job aids](#) along with other oil spill response publications here, including [Seafood Safety After an Oil Spill](#), the [Shoreline Assessment Manual](#), and the [FOSC's Guide to NOAA Scientific Support....](#)

User clicks standard techniques and publishes guidelines OR Resources:

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This 2013 report is intended to assist those who work in spill response and planning...

[Shoreline Cleanup and Assessment Technique \(SCAT\)](#)

SCAT is a systematic method for surveying an affected shoreline...

[Shoreline Countermeasures Manuals](#)

These manuals are customizable tools...

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[Seafood Safety After an Oil Spill](#)

When spill response managers determine that seafood may be affected by spilled oil...

User clicks Response Tools / Oil Spill Response & Planning:

Response Tools for Oil Spills

Here is a quick guide to many of the most commonly used tools and resources that OR&R offers...

Software and Datasets

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[NUCOS](#), a simple desktop unit converter that includes units unique to oil spill response....

Publications, Training, and other Resources....

More Information about Oil Spill Response...

User action steps to copy and paste:

User clicks Site Map

Site Themes

Tools, publications, and information related to our work...

[Oil and Chemical Spills](#) (246)

[Oil Spills](#) (160)

[Response Tools](#) (74)

[Resources](#) (70)

[Chemical Spills](#) (54)

[Response Tools](#) (19)

[Resources](#) (35)

[Significant Incidents](#) (25)

[Exxon Valdez Oil Spill](#) (21)

[Disaster Response Center](#) (2)

[Environmental Restoration](#) (16)

[Environmental Assessment Tools](#) (6)

[Marine Debris](#) (43)

[Training and Education](#) (32)

[Training](#) (16)

[Workshops](#) (5)

[Self-Study Resources](#) (11)

[Education...](#) (16)

[About](#) (295)

[For Media](#) (279)

Maps and Spatial Data

Tools, projects, and information related to mapping and spatial data, such as the online mapping tool, ERMA; the mapping program, MARPLOT; and the environmental sensitivity maps of the U.S. coastline, the ESIs.

[Maps and Spatial Data](#) (63)

[Environmental Response Management Application \(ERMA\)](#) (12)

[Multimedia...](#)

[Publications...](#)

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[MARPLOT Technical Documentation](#):

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technical details of the program...