



An FOSC's Guide to NOAA Scientific Support (Version 2)

This popular guidebook (revised July 2010) is written for oil and chemical spill responders and Federal On-Scene Coordinators (FOSCs) to provide a quick reference to the range of scientific support services available through NOAA's Office of Response and Restoration (OR&R), Emergency Response Division (ERD), commonly known as "NOAA HAZMAT").

Through the NOAA Scientific Support Coordinator (SSC), a full NOAA Scientific Support Team (SST) experienced in incident response science support is available to the FOSC, day or night. The NOAA SSC is one of the special technical advisors within the Incident Command System, as specified in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP, 40 CFR § 300.145).

This guide describes the components of the NOAA SST, the duties and composition of the team elements, and their value to the FOSC and Unified Command. For a quick orientation to NOAA Science Support, Section 4 gives a description of what to expect from the NOAA Scientific Support Team once you contact the SSC and the response progresses.

NOAA Scientific Support should be requested by an FOSC by contacting the NOAA SSC assigned to their Coast Guard District.

What's New in Version 2

- Reference and link to the USCG "An FOSC's Guide to Environmental Response"
- Reference and link to the Memorandum of Agreement between NOAA and the NPFC regarding funding for NOAA Scientific Support

New topics:

- Updated and expanded
- More live links to Web pages and other sections of the guide
- New/updated tools
- NOAA Support for International Incidents
- Dealing with Marine Debris
- NOAA Leadership within the National Response Community, including the co-facilitation with the USCG of Ecological Risk Assessment workshops

- Best Management Practice for Environmental Resource Protection
- Consultation with USFWS and NMFS on Essential Fish Habitat and Endangered Species Act
- Chemical Reactivity Worksheet (CRW)
- Chemical Aquatic Fate and Effects Database (CAFÉ)
- Dispersant Mission Planner, version 2 (DMP2)
- Environmental Response Management Application (ERMA®)
- NOAA Unit Converter for Oil Spill Response (NUCOS)

The guidebook is available as portable document format (PDF) files, in the following versions:

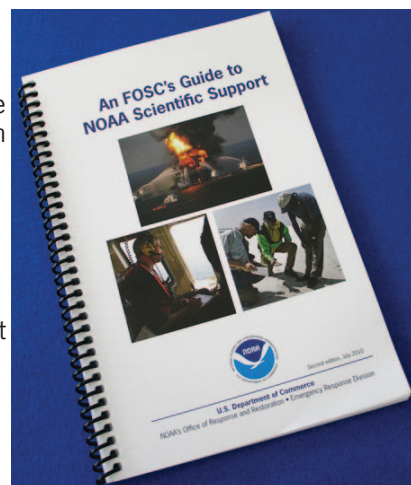
- An electronic version, with links to other files, Web sites, and e-mail addresses. These links, mostly contained in the appendices, take the user directly to those references (Internet connection required). The purpose of their inclusion is to provide a single, instant reference to the many products and services provided by NOAA's Emergency Response Division. This version can be printed on 8.5" x 11" paper.
- A "booklet" version that you can print double-sided, then fold and staple to create a 5.5" x 8.5" booklet.

The electronic version of the guidebook is the most current, and the most useful since it contains active links to Web-based response information. After accessing the guidebook Web page at <http://response.restoration.noaa.gov/foscguide>, follow the directions to download the PDF document to your computer, then use it from there while connected to the Internet.

U.S. Coast Guard FOSC's and their staff may contact their assigned NOAA SSC to obtain spiral bound versions of the guidebook. Copies may also be available for a nominal fee by contacting the OR&R Photos and Orders Specialist at orr.library@noaa.gov.

For more information

If you have questions or comments about this guide, contact Jim Jeansonne, NOAA SSC, at (727) 551-5714, or Jim.Jeansonne@noaa.gov.



Visit <http://response.restoration.noaa.gov/foscguide>



FOSC GUIDEBOOK CONTENTS

Dedication

What's New in Version 2

NOAA Scientific Support Coordinator (SSC) and Team Functions

ABOUT THIS GUIDE

Purpose

Companion Guide - The USCG FOSC Guide Book for Environmental Response

Using the NOAA FOSC Guide

Questions or Comments

THE SCIENTIFIC SUPPORT COORDINATOR AND TEAM

SSC Roles during a Response

Always Available to the FOSC

Directly Serving the FOSC

All NOAA SSC/SST Costs are per NPFC Agreement

NOAA SSC Support to the Coast Guard

NOAA Scientific Support and the National Strike Force

NOAA SSC Support to other On-Scene Coordinators

NOAA Scientific Support for International Incident Planning and Responses

NOAA SSC Support for Special Incidents

Building Scientific Consensus and Dealing with Uncertainty

The NOAA Scientific Support Team

Dealing with Marine Debris

Access to all of NOAA's Resources

Customized Science Support

RRT Science Integration and Coordination

BACKGROUND ON NOAA'S SCIENTIFIC SUPPORT

Origin of the SSC and Scientific Support Team

NOAA's Advanced Scientific Support Team

The NOAA Scientific Support Organization

WHAT TO EXPECT FROM NOAA DURING A RESPONSE

After the NOAA SSC is Contacted

For an Oil Spill or Threat of a Spill

For a Chemical Incident

NOAA SCIENTIFIC SUPPORT BETWEEN INCIDENTS

Between Incidents – Facilitating Readiness

NOAA Leadership within the National Response Community

Research and Development of Response Science Tools

NOAA Field Team Readiness

SSC Coordination with Coast Guard Districts and Sectors

SPILL MODELING, FATE, AND TRANSPORT

Modeling - A Key Service

Oil Fate and Trajectory Forecasting

NOAA's Incident Modeling Experience

NOAA Oceanographers Run Our Models

Aerial Observation and Spill Mapping

NOAA Oil Spill Models

NOAA Chemical Incident Models

RESPONSE CHEMISTRY

Protection from Chemical Hazards - The Paramount Goal of Response

During a Chemical Incident

During an Oil Spill

During a WMD Incident

SMART (Special Monitoring of Applied Response Technologies)

Dispersant Mission Planner 2 (DMP2)

Chemistry Support Contract Laboratory

Unusual or Specific Chemical Hazard Assessment

Collaborating with Other Response Science Laboratories

HEALTH AND SAFETY

NOAA Health and Safety Coordinator

Health and Safety Services Available

Chemical Incident Support

Oil Spill Support

Unusual or Specific Hazard Analysis

NATURAL RESOURCE PROTECTION

Minimizing Environmental Impact

NOAA'S Natural Resource Science Team

Resources at Risk (RAR) Analysis

Best Management Practices for Resource Protection

The Role of Environmental Sensitivity Mapping

Environmental Protection Priorities

Shoreline Cleanup Assessment Technique (SCAT) Leadership

Natural Resource Publications for Responders

Required Consultation with NMFS and USFWS during a Federal Response

NOAA's Roles as Resource Manager and Trustee

Common Trustee Concerns and Activities during Response

Coordinating NRDA with Incident Response

Working with NRDA Trustees

Separate NOAA NRDA Cost Accounting

INFORMATION MANAGEMENT AND GIS SUPPORT

Taming the Information Beast

Planning and Operations Support

Synthesizing Information

SCAT Data Management

ResponseLINK and IncidentNews - Data Sharing and Dissemination

Environmental Response Management Application (ERMA®)

Post-Incident Data Summaries

APPENDICES

Scientific Support Coordinator (SSC) Contact Information

DOC/NOAA Regional Response Team (RRT) Representation

NOAA's Response Job Aids And Related Publications

Incident Response Forms

Online Incident Information

NOAA Response Models

NOAA Response Training Availability

Natural Resource Damage Assessment (NRDA) During Incident Response

Environmental Sensitivity Index (ESI) Mapping

Natural Resource Special Publications

Unit Conversion Table

NOAA's Office of Response & Restoration—Protecting our Coastal Environment

**For further information about NOAA's Office of Response and Restoration,
please visit our Web site at**

<http://response.restoration.noaa.gov> or call (301) 713-2989.

