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NOAA

Emergency Response PREP Exercise

San Francisco, CA July & August, 2006 <u>www.safeseas.noaa.gov</u>

Overall goals

Develop skills in coordination, contingency planning, emergency response and health & safety

Integrate capabilities for the protection of marine & coastal resources

Build relationships and foster long-term collaboration to protect the environment

Partner organizations...

US Coast Guard California's Office of Spill Prevention & **Response (OSPR)** Harley Marine Services **NOAA** US Department of the Interior California central & Northern Integrated **Observing System (CeNCOOS)**

Additional partners...

Oiled Wildlife Care Network **Farallones Marine Sanctuary Association** Marine Spill Response Corporation **Bodega Marine Laboratory Alameda County Sheriff's Department** US Air Force Reserve 910th Air Wing See www.safeseas.noaa.gov for more...



Trainings

21 sessions conducted over 3 months
14 different courses including:
1CS, SCAT, HAZWOPER, NRDA
Oil spill modeling, overflight observations, environmental tradeoffs
Marine debris, wildlife handling & diseases
Over 45 different instructors/panelists
Nearly 400 students

Major exercise elements

Conduct vessel assessments & develop:

- Salvage, damage control, transit and disposal plans
- Waterside firefighting requirements
- Conduct environmental assessments & develop:
 - Shoreline, wildlife and cultural resource protection plans
 - Dispersant use
 - Place of Safe Refuge
- Assess conditions, protect sensitive areas & treat spilled oil

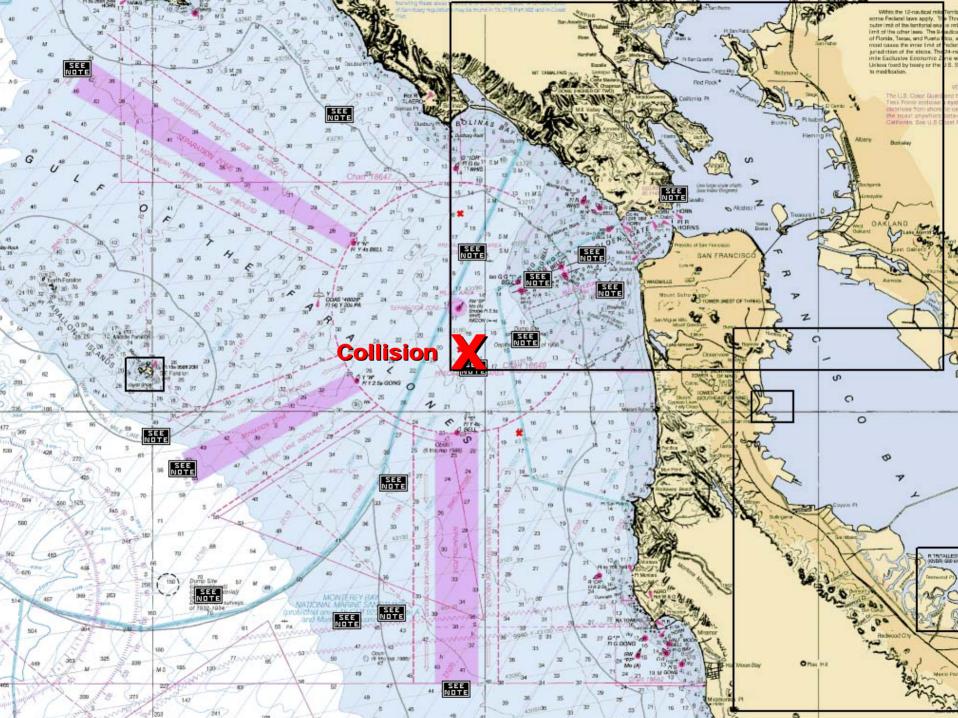
Initiate joint Natural Resource Damage Assessment activities with NOAA, DOI, OSPR and the Responsible Parties

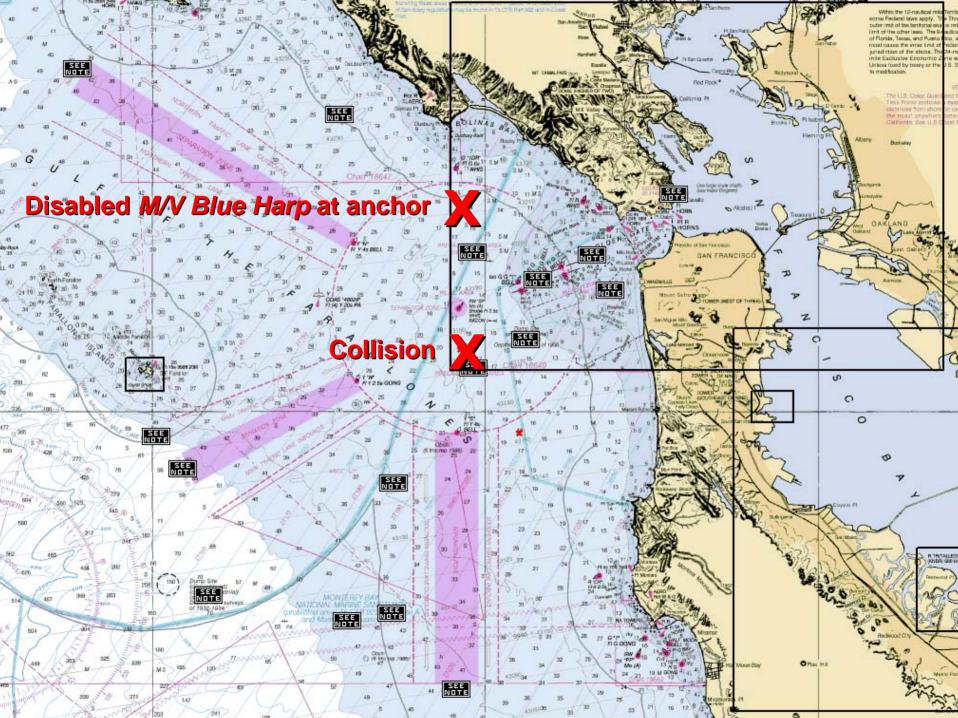
M/V Blue Harp

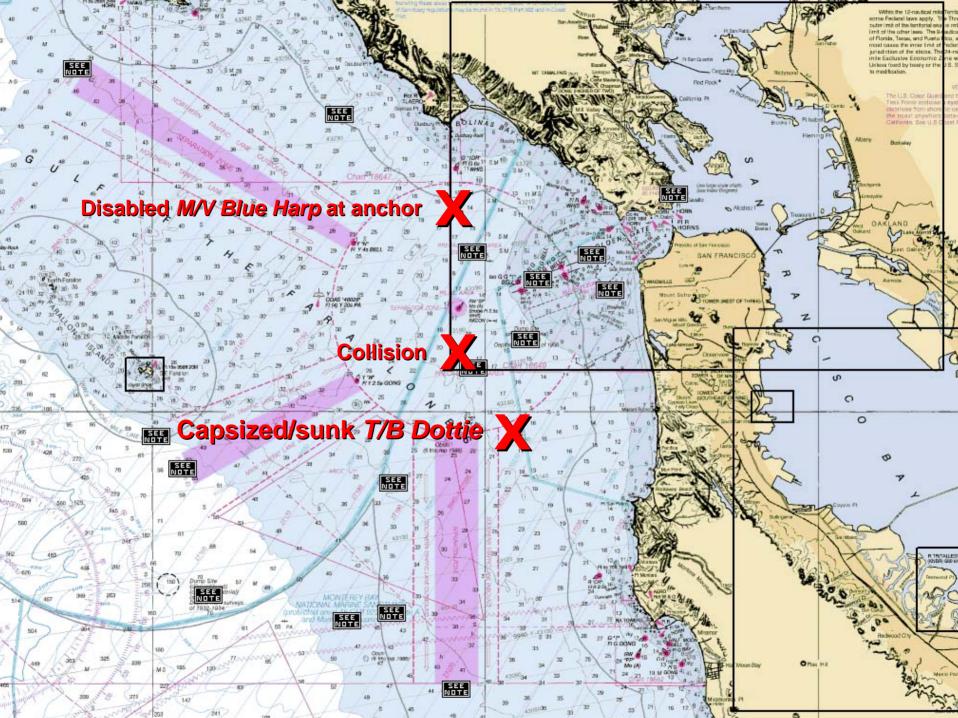
- 522 feet long
 Cargo: 9,500 tons steel coil & pipe cargo
 Fuels:
 - 220,000 gallons of IFO 380
 - 29,700 gallons of marine diesel
 - 2,000 gallons of lube oil
- In-bound to San Francisco from Long Beach
 Develops steering problems

Tug Ernest Campbell & T/B Dottie

286 feet long
Carrying 1,860,000 gallons IFO 180
Out-bound from San Francisco to Long Beach







Deployed assets

Personnel Aircraft Vessels Oceanographic technology

nearly morning: NW 10-13 knots missing to NW 12 knots Waves; Tuesday: NW swell 3 feet, swell period 10 seconds, total wave height 3 feet Wednesday: NW swell 4 feet increasing to 5 feet, swell period 9 seconds discreasing to 7 seconds, total wave height 4 feet. Thrussiday: NW swell 6 feet, period 7 seconds, total wave height 6 feet increasing to 8 seconds.

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Personnel

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Aircraft



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Biodegradable Non-Toxic **DRIFT CARD** August 9, 2006

This drift card is part of an oceanographic current study conducted by the National Oceanic and Atmospheric Administration

Please let us know where you found this card by visiting

www.safeseas.noaa.gov

Your response will provide valuable information to the California National Marine Sanctuaries

ECHOOLOGY ise DO NOT throw-this back in the water

iodegradable Non- Toxic

DRIFT CARD August 9, 2006

Drift cards are important scientific tools used to track ocean currents and pollutants, such as oil and marine debris that may have been released during ship accidents or other marine incidents

NOAA recorded where this card was released, and by reporting the recovery location to www.safeseas.noaa.gov, we can learn more about how these pollutants move through the ocean.



Please DO NOT throw this back in the water



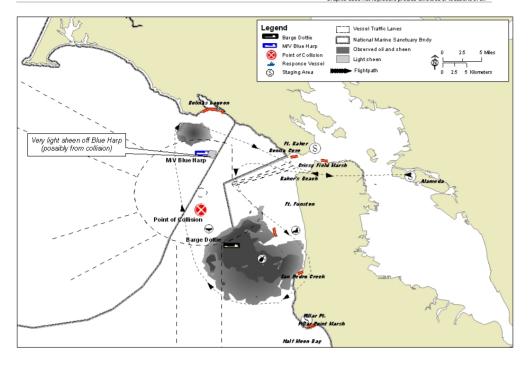
Overflight Map prepared by NOAA

prepared by NOAA

USE ONLY AS A GENERAL REFERENCE

Date/Time: 9 August 2006, 0730 Platform: HH-65 Observers: Jeff Lank ford (NOAA)

Observers: Jeft Lankford (NOAA Graphic does not represent precise amounts or locations of oil

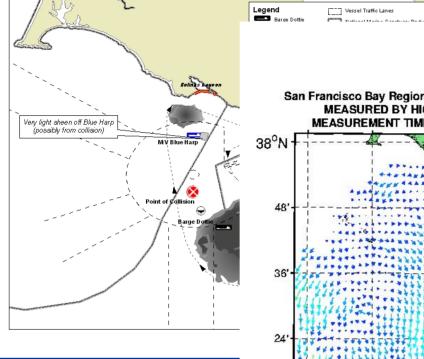


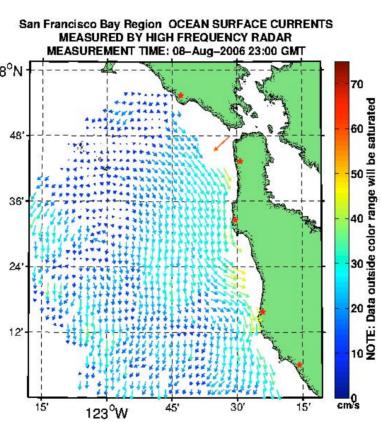
Safe Seas Drill 2006

Overflight Map prepared by NOAA

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Overflight Map prepared by NOAA

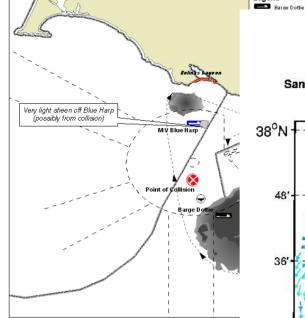
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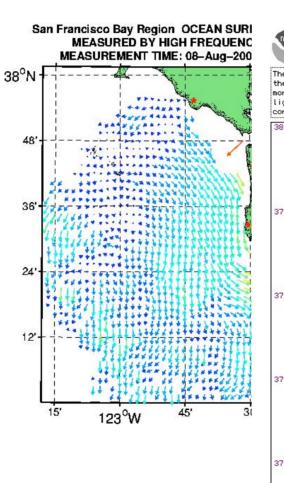
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Vessel Traffic Lanes

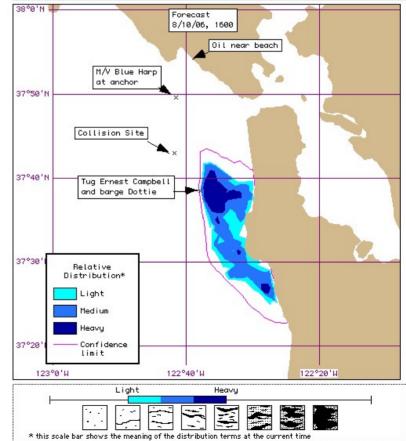
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APP Sea Seas **** THIS IS A DRILL **** Estimate for: 1600, 8/10/06 HAZMAT Trajectory Analysis Prepared: 0812, 8/10/06 NOAR/HAZMAT (206) 526-4911

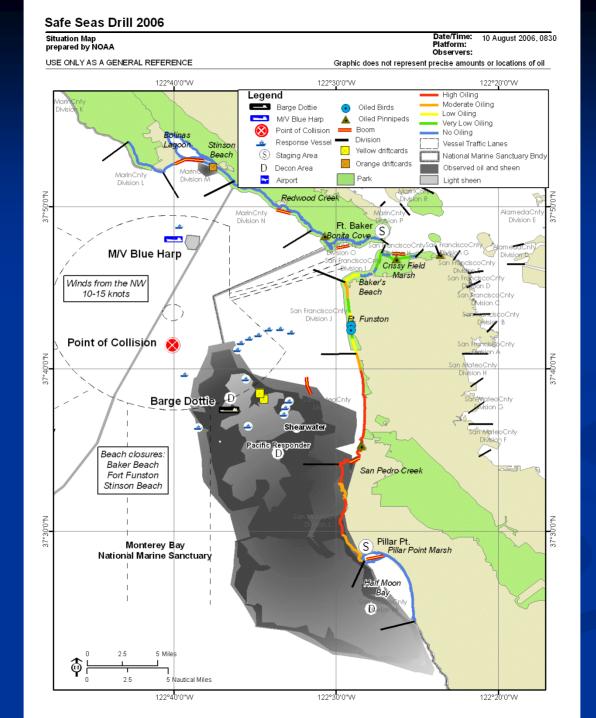
These estimates are based on the latest available information. Please refer to the trajectory analysis briefing and your Scientific Support Coordinator (SSC) for more complete information. This output shows estimated distributions of heavy, light, and medium concentrations as well as an outer confidence line. The confidence line is based on potential errors in the pollutant transport processes.



Legend

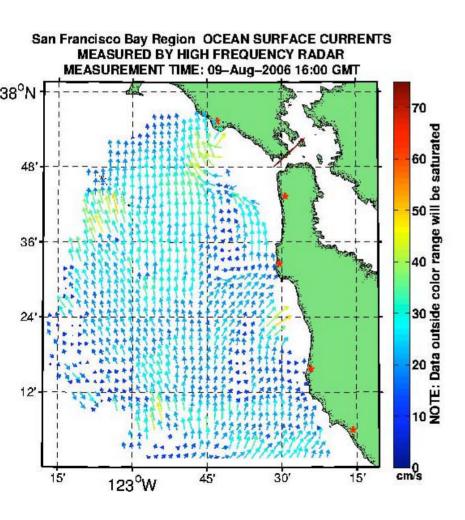


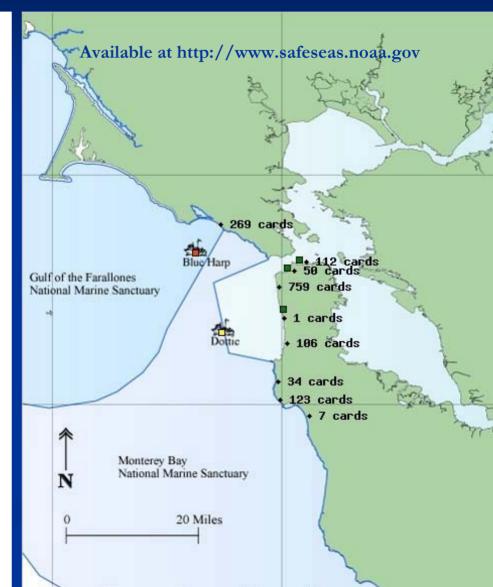




Continuing observations

Available at http://www.cencoos.org





Lessons Learned

Role of resource Trustees in UC needs clarification

- End to End Dispersant planning & Application useful
- pre-drill "Short Courses" Useful
- Need Clarification where Place of Refuge issue is addressed within UC
- NRDA may not function well within SCAT teams, Should be supported separately
- Drill was good opportunity to update Sensitive site strategies

Summary

- More than 400 people from over 40 agencies & organizations
- Varying levels of spill response experience
- Developed skills with pre-drill & in-drill trainings
- Integrated human and technological capabilities
- Built relationships among resource specialists, planners, responders & managers local, regional and national

More information at <u>www.safeseas.noaa.gov</u>

Questions?