



# **Marine Spill Response Corporation (MSRC)**

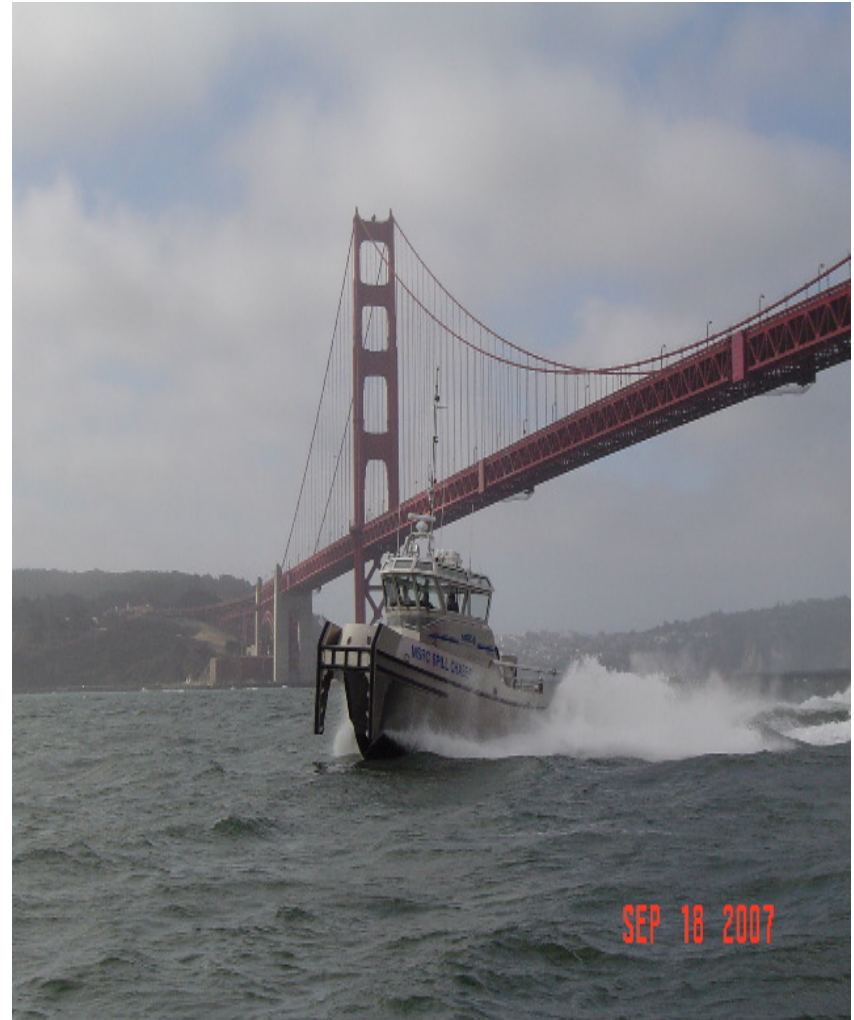
## **OSPR/Chevron Oil Spill Response Technology Workshop**

February 28, 2013

# Overview

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- **MSRC/MPA History**
- **Areas of Operations**
- **Response Resources (Hardware)**
  - Marine Assets
  - Aerial Dispersant Capability
  - In-Situ Burning
- **Personnel (Software)**
  - Dedicated MSRC California Personnel
  - Other dedicated MSRC West Coast personnel
  - “East of the Rockies” dedicated MSRC personnel
  - MSRC Reservist Program
  - MSRC STARs Contractor Network
  - MSRC Southern California Mariners Oil Spill Team (MOST) Program



## Overview – (cont'd)

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- **Technology**
  - Enhanced oil detection to “get boats in oil”
  - Enhanced encounter rate
  - Sophisticated Telecommunications Capability
- **Summary**
- **Questions**



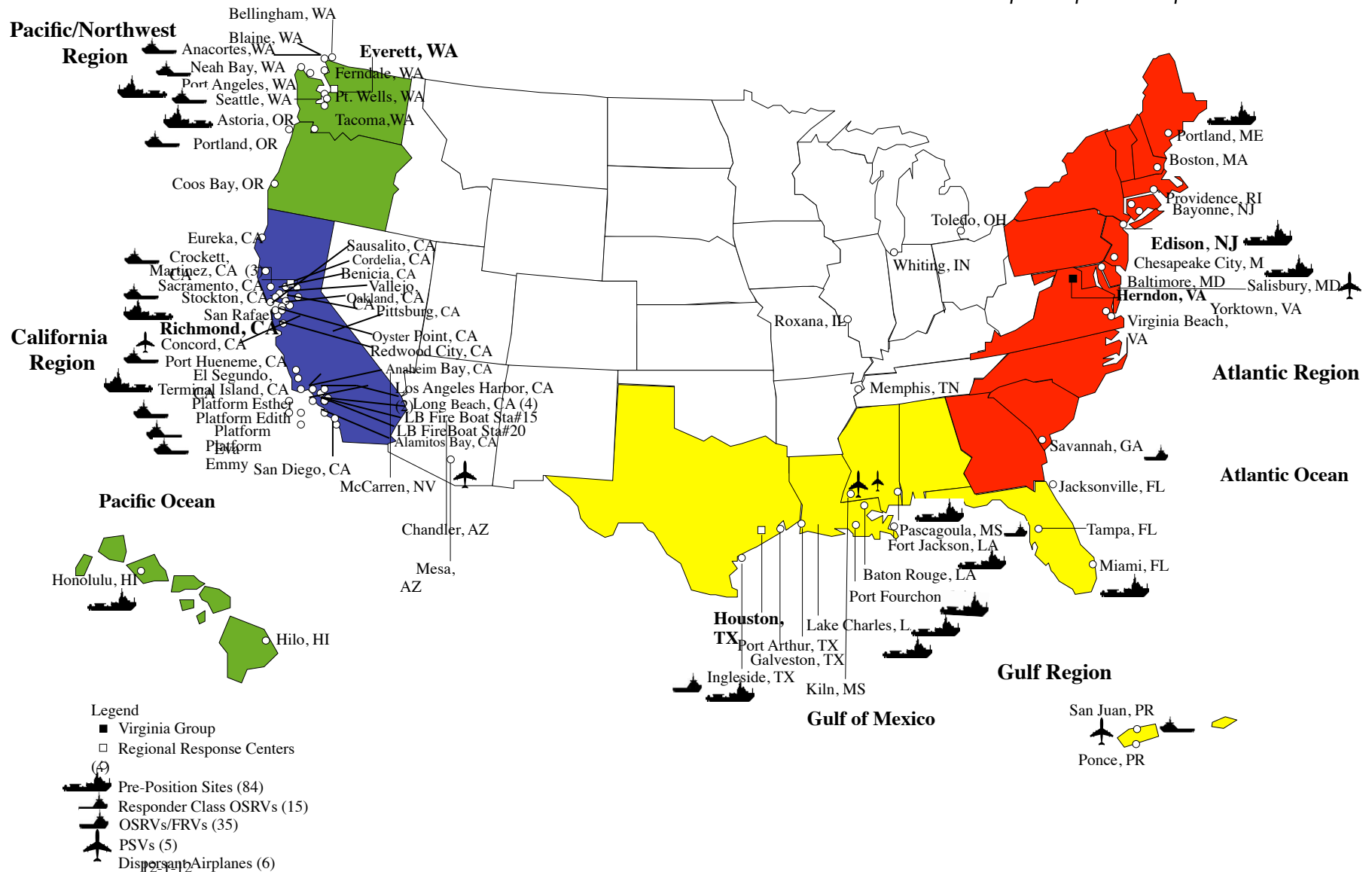
## MSRC/MPA History

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- **Marine Spill Response Corporation (MSRC) formed in 1990 as largest, independent, non-profit, dedicated emergency response company**
  - Primary functions are Vessel and Facility plan citation
  - Spill response services
- **MSRC is funded exclusively by the Marine Preservation Association ( MPA)**
  - Formed in 1990 as privately funded, non-profit (and tax-exempt) membership corporation
  - Two-tier structure to improve overall non-spiller liability defenses
  - Avoids direct company involvement and added legal risks associated with traditional co-op structures



# Regional Response Centers and Areas of Operation



## MSRC Response Resources (Hardware)

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- Marine Assets
- Aerial Dispersant Capability
- In-Situ Burning



## MSRC Response Resources – Nationwide and California

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- Largest oil spill response organization worldwide
- 436 Dedicated personnel – 104 in California
- 85 Equipment sites – 36 sites in California
  - 36 Manned sites – 5 California sites
- 50 Oil Spill Response Vessels (OSRVs)
  - 15 210 ft. OSRVs – (2) Richmond and Terminal Island
  - 5 Fast Response Vessels (FRVs) – (1) Richmond
  - 5 PSVs - GOM
- 19 Oil Spill Response Barges (OSRBs)
  - Range from 12,000 – 68,000 bbl. – Richmond (45,000 bbl.) and Port Hueneme (32,000 bbl.)
- 68 Shallow Water Barges – 14 in California
- 10 Kvichak Marcos – 1 at Terminal Island
- 654,000 ft. of boom (all sizes) – 198,266 ft. in California
- 21,500 ft. of fire boom
- Investment in buster technology 2012/2013 – 2 in CA
- 293 Skimming Systems – 88 systems in California



## MSRC – Marine Assets – Offshore



### MSRC Responder Class Vessels

- 210 ft. LOA/45 ft. beam
- 12 knot speed of advance
- 4,000 bbl. temporary storage
- 2 Oil water separators
  - 14,000 bbl. temporary storage credit from USCG
  - 12,901 bbl. temporary storage credit from OSPR
- 5,280 ft. of Sea Sentry II ocean boom
- Berthing for 38
- Medical facility
- Helicopter deck
- Command and control capability



## MSRC – Marine Assets – Protective Waters

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### Ocean Liberty

- Home Port – Richmond, CA
- 155 ft. LOA/38 ft. beam
- Draft 12.6 ft.
- 2,089 bbl. of temporary storage
- 2,250 ft. of 43" Expandi boom
- 1,000 ft. of 30" Expandi boom
- 4,400 ft. of 18" harbor boom
- Berthing for 15
- Minimum 24 hr. crew - 5
- Command and control capability
- 10 knot speed of advance



## MSRC – Marine Assets – Protective Waters

### Sea Strike

- Home Port – Berth 57, Long Beach, CA
- 122 ft. LOA/34 ft. beam
- Draft 11.5 ft.
- 1,267 bbl. of temporary storage
- 3,600 ft. of 43” Expandi boom
- 180 ft. of troil boom
- Berthing for 12
- Minimum 24 hr. crew – 4
- Command and control capability
- 10 knot speed of advance
- NightSight Infrared Camera



## MSRC Resources – Skimming and Storage Barges

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- 19 dedicated storage barges nationwide
- 2 dedicated storage barges in California converted for skimming
- Configured with 660 ft. of ocean boom for enhanced “U” skimming
- Yearly underway training deployments



# MSRC Responses Resources – Offshore Skimming Capability



## MSRC Contracted Platform Supply Vessels (PSVs)

- 5 PSVs modified for dual commercial service/oil spill response
- High capacity systems (skimming/boom-oil containment/storage)
- Newer technology skimmers
- Storage capacity ranging from 10,000 to 24,000 bbl.
- Low visibility spill detection – X-Band/Infrared



## MSRC – Evaluating Response Capability

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- **Dedicated response assets to reduce response reaction time**
- **Offshore, Protected Water and Shoreline Defense**
- **Appropriately sized and engineered for various operating environments**
- **Marine platforms with substantial recovered oil storage relative to rated skimming systems, necessary to provide opportunity for continuous and unimpeded spill recovery operations**
- **Low reliance on commercial “vessels of opportunity” and other marine assets that are not designed for spill response and storage of recovered oil**



## MSRC Resources – Nearshore/Shallow Water Skimming

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- **Fast Response Vessels (FRVs) – 5**
  - 26 knot speed of advance
- **Kvichak Marco Skimmers – 10**
  - Transportable
- **Shallow Water Barge Systems – 68**
  - Transportable
  - 3 ft. draft when fully laden
  - 400 bbl. of storage in two pontoons
  - Self-propelled or push boat



## MSRC Resources – Aerial Dispersant Capability



- 2 dedicated C-130 aircraft based out of Mesa, AZ and Kiln, MS
- 4 dedicated King Air BE 90 based out of Concord, CA; Kiln, MS; San Juan, PR; and Salisbury, MD
  - Function as spray or spotter aircraft
- 104,000 gallons of COREXIT stockpiled throughout the US (103,000 gallons 9500)

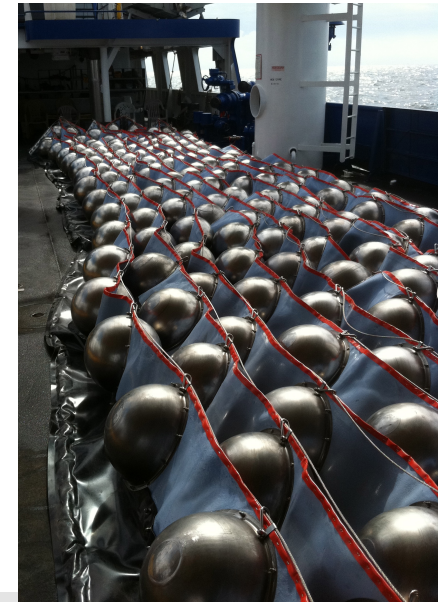


## MSRC Resources – In Situ Burning

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- Inventory of 21,500 ft. - 500' fire boom sections
  - Hydro and pyro boom acquisitions
  - Inventory build to support 4 burn teams in daily operation until manufacturer can begin re-supply cycle
  - Trained personnel and annual training deployment



## Personnel (Software)

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- Dedicated MSRC California personnel - 104
- Other dedicated MSRC West Coast personnel - 85
- “East of Rockies” dedicated MSRC personnel – 247
- MSRC Reservist Program
- STARs Contractor Network
- MSRC Southern California Mariners Oil Spill Team (MOST) Program



## MSRC Reservist Program

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- **360 pre-identified, trained, contracted operational response personnel**
  - Program commenced 2012
  - Responder “back deck” trained
  - All personnel with pre-arranged HAZWOPER credentials
  - East Coast contractor – Moran Environmental
  - West Coast contractor – Global Diving and Salvage
  - 180 pre-qualified personnel in California



## MSRC STARs Contractor Network

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- **Spill Team Area Responders (*STARs*)**
  - 100 contractors at 200 nationwide locations
  - Trained network rather than telephone directory
  - List of *STARs* on MSRC website – [www.msrc.org](http://www.msrc.org)
- **MSRC can function as a general or subcontractor**
  - Mark-up at 10% (low end of industry range)
  - Contractual response relationship through long established program
  - *STARs* contractors subject to 30-days notice on price changes
  - Multiple mark-ups scrutinized/avoided



## MSRC Southern California Mariners Oil Spill Team (MOST) Program

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- **Subject to availability**
- **8 hr. HAZWOPER trained**
- **40 LA/LB fishing vessels under contract**
- **Over 100 fisherman trained**
- **Dedicated Program Manager**



## MSRC - Technology

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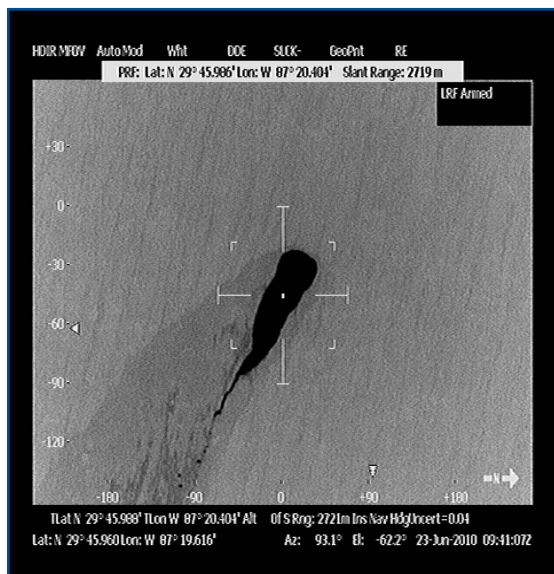
- Enhanced oil detection to “get boats in oil”
- Enhanced Encounter Rate
- Sophisticated Telecommunications Capability



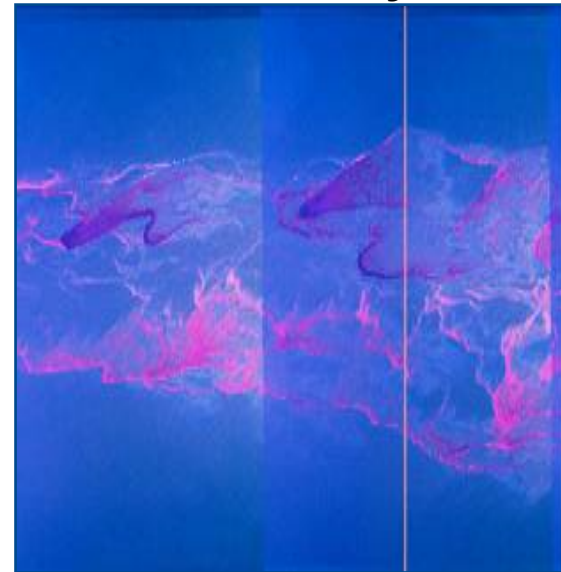
## MSRC – Enhanced Oil Detection

- **“Getting boats in oil”**

- X Band and Infrared detection on deep draft vessels and some hand-held units on smaller vessels
- California and Pacific Responders outfitted with both systems



- X-Band radar
- Slick location detection



- Infrared camera
- Slick thickness detection



## MSRC – Enhanced Encounter Rate

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- Recently added nationwide inventory of Norwegian “buster technology”
  - 4 systems currently operational, one in Northern California
  - 10 additional systems scheduled for delivery during 2<sup>nd</sup> quarter 2013
  - 2nd California buster will be located in Southern California
  - All systems can be cascaded



## MSRC – Sophisticated Telecommunications Capability



- **Emergency Communications Packages**

- Use in spill and non-spill emergencies
- Suites provide marine and aviation radios
- 2 suites in California (Richmond and Long Beach)
- Dedicated satellite access
- 30 Dedicated T&IS personnel nationwide, 6 fulltime T&IS California personnel
- Independent telephone system (96 phone stations per suite)

- **Small Satellite Packages**

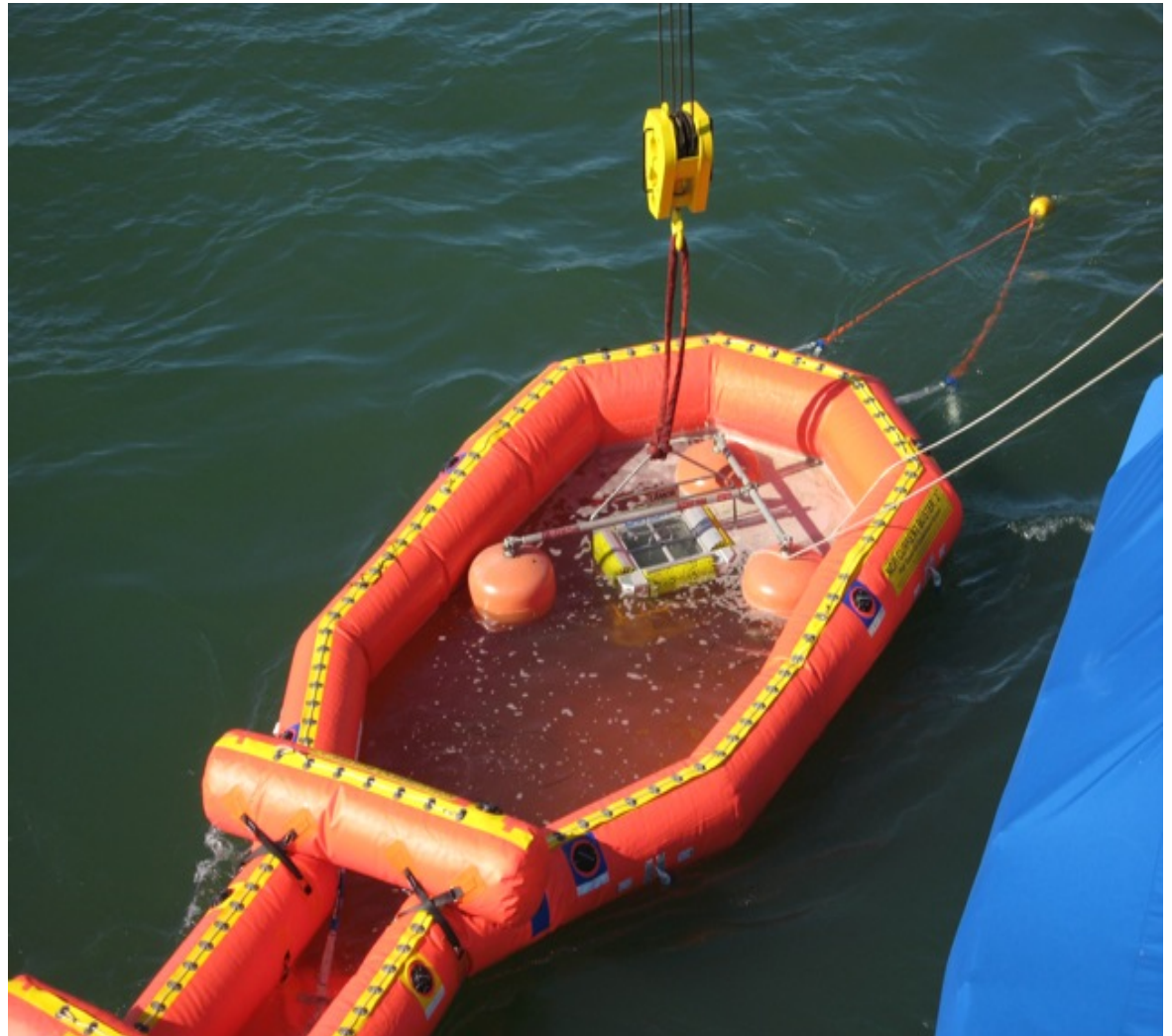
- Same systems with eight telephones and highly portable



## MSRC – Summary

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- Hardware
- Software
- Technology



## MSRC – Questions

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