


Setting the Stage on SCAT

SCAT for Tomorrow Workshop

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What SCAT is....




- An internationally-accepted procedure for the surveying, documentation and description of oiled shorelines based on standard terms and definitions.
- Suitable for shorelines in marine or freshwater; coasts, rivers, & lakes; tropics to the arctic; any habitat or geomorphology.
- A cornerstone of support for Operations through the decision and planning process from the initial shoreline oiling until the last segment is signed off.
- In the United States, the SCAT process has become an integral part of the NIMS Incident Command System (ICS); and world-wide has become more formalized as part of many oil-spill response or contingency plans.

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SCAT Evolution... How?

- *The beginning.....*Dec. 1989 – T/B Nestucca spill:
 - Washington, US to Vancouver Island, BC
 - first survey w/ forms & interagency concept
 - Combined aerial Shoreline Evaluation Team (SET) in conjunction w/ ground Shoreline Surveillance Teams (SST).
- Mar. 1989 – Exxon Valdez:
 - 1989 – Exxon & ADEC separate surveys
 - 1990 – 1st Exxon/govt teams
 - Core team composed of geologist, biologist, archeologist
 - Aerial video/audio and mapping (VHS/Beta)
 - Shoreline segmentation was critical
 - 35mm film... NO digital
 - Sat phones, VHF, or fax...NO cellular
 - NO Internet, NO laptops, NO GPS



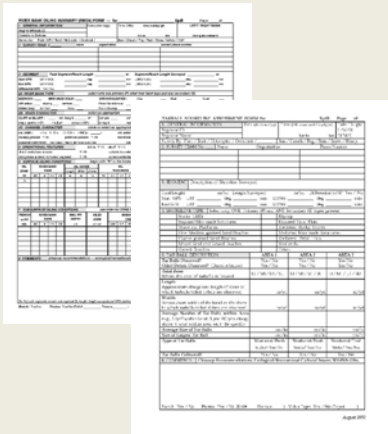




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SCAT Evolution... continues

- Manuals created: BC in 1990, NOAA in 1992, EnvCan in 1994






- 1996 – first “River SCAT forms”
- 1999 – first “Tar Ball SCAT forms” for the New Carissa incident
- Late 90’s – 1st purpose-built SCAT database, “ShoreClean”

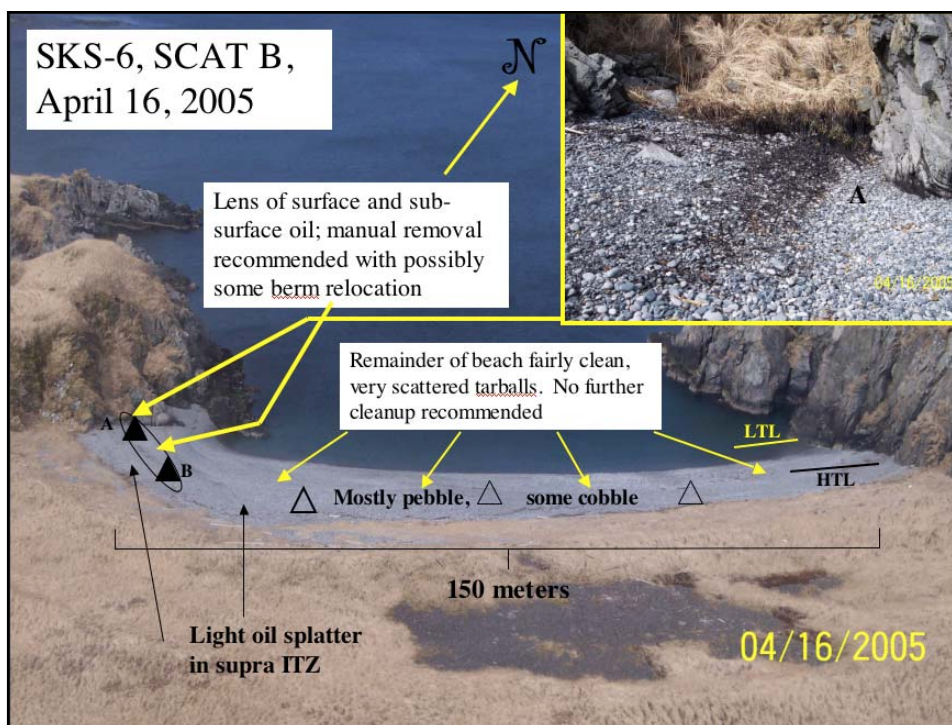
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SCAT Evolution... continues

- ca. 2000 – EnvCan & NOAA produced 3rd-gen “modern” SCAT forms in use today
- 2004 – EnvCan Arctic SCAT manual
- 2004-2007 M/V Selendang Ayu (AK)
 - The concept of a formal procedure for SCAT field teams to create shoreline treatment recommendations (“STRs”) and to have an inspection and sign-off process documented by shoreline inspection reports (“SIRs”) was introduced
 - GIS becoming integral to SCAT mapping




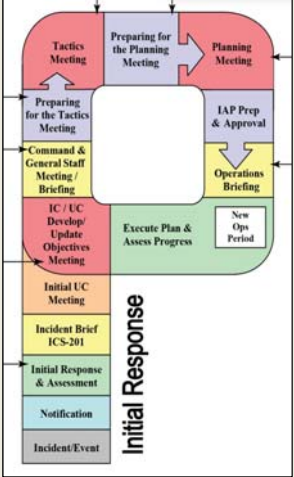
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SCAT Evolution... continues

- 2007 to present:
 - SCAT becomes more integrated into ICS through the Environmental Unit (EU) and essential for operational sign-off
 - STR's and SIR's becoming "legal" documents
 - Direct Trustee involvement in SCAT increases (ESA, NHPA)
 - SCAT products & frequency from data increases





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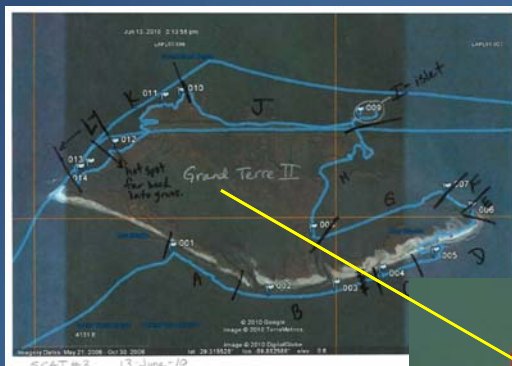
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SCAT Evolution... continues

- 2010 to 2015: DeepWater Horizon / Macondo
 - Common Operational Picture (COP) via internet becomes a reality
 - Demand for SCAT products & frequency continues to increase
 - SCAT Database continues to evolve
 - SCAT fully integrated into ICS – STR and SIR critical for Ops progress
 - SCAT-Ops Liaison employed
 - SCAT GIS tested to new limits with non-linear shorelines and segmentation



SCAT Field Maps and GIS



SCAT Annotated
Field Sketch Map

GIS Shoreline Current
Oiling Layers



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SCAT Evolution... How & Why?

- The concept has been proven
- The methods and terminology are unchanged
- It remains flexible and scalable
- Innovation is always present
- Advancing Technology
- The public
- The politicians
- The media
- Collaboration



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SCAT for Tomorrow

TODAY

- The key to successful SCAT in the future is electronic data management and interoperability.
- The response community will continue to innovate.
- In the U.S., SCAT will always involve multiple players.

In order to conduct SCAT efficiently, effectively and produce products on demand, the methods and tools we use must be interoperable.

The diagram shows a central cloud labeled 'Interoperability Standards' with the text 'HL7', 'IHE', 'X12', 'HL7', 'V2', 'V3', 'V4', 'V5', 'V6', 'V7', 'V8', 'V9', 'V10', 'V11', 'V12', 'V13', 'V14', 'V15', 'V16', 'V17', 'V18', 'V19', 'V20', 'V21', 'V22', 'V23', 'V24', 'V25', 'V26', 'V27', 'V28', 'V29', 'V30', 'V31', 'V32', 'V33', 'V34', 'V35', 'V36', 'V37', 'V38', 'V39', 'V40', 'V41', 'V42', 'V43', 'V44', 'V45', 'V46', 'V47', 'V48', 'V49', 'V50', 'V51', 'V52', 'V53', 'V54', 'V55', 'V56', 'V57', 'V58', 'V59', 'V60', 'V61', 'V62', 'V63', 'V64', 'V65', 'V66', 'V67', 'V68', 'V69', 'V70', 'V71', 'V72', 'V73', 'V74', 'V75', 'V76', 'V77', 'V78', 'V79', 'V80', 'V81', 'V82', 'V83', 'V84', 'V85', 'V86', 'V87', 'V88', 'V89', 'V90', 'V91', 'V92', 'V93', 'V94', 'V95', 'V96', 'V97', 'V98', 'V99', 'V100'. The cloud is connected to various entities: Hospitals, PIR, Application Providers, Physicians, Pharmacies and PBMs, Health Plans, Health & Fitness Device Manufacturers, Employers, Laboratories, and Healthcare Associations.

Working together for Success

Collaboration

Different Perspectives

Teamwork

Planning

Uncertainty

Open Communication

Adaptive Management



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