Outline

• SCAT data workflow
• **DATA:** The SOS form
• **INFORMATION:** Core SCAT products
  – Extent of Oiling
  – Shoreline Treatment Recommendations (STR’s)
  – Inspection status
• Where do we need to go?
"Before you become too entranced with gorgeous gadgets and mesmerizing video displays, let me remind you that information is not knowledge, knowledge is not wisdom, and wisdom is not foresight. Each grows out of the other, and we need them all."

Arthur C. Clarke
SCAT Information Generation

SCAT is About Information *not Data*

SCAT Information Products:
1. Extent of Oiling
2. Shoreline Treatment Recommendations
3. Shoreline Inspection Status
The Data: SOS Form

Generic data about the survey.
Informs over all qualitative assessment of the survey.
(Other than the date) does not feed any core SCAT info products.

The Data: SOS Form

Confirmatory information – “Is the ESI correct?”
Informs how cleanup recommendations are written and presented to Ops.
Data does not directly feed SCAT products.
The Data: SOS Form

These are the only DATA needed to calculate Extent of Oiling

Determining Oiling Category

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Width of Oiled Area</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wide</td>
</tr>
<tr>
<td></td>
<td>&gt;6 m</td>
</tr>
<tr>
<td>Oil Distribution</td>
<td>Continuous 91 – 100%</td>
</tr>
<tr>
<td>Oil Distribution</td>
<td>Broken 51 – 90%</td>
</tr>
<tr>
<td>Oil Distribution</td>
<td>Patchy 11 – 50%</td>
</tr>
<tr>
<td>Oil Distribution</td>
<td>Sporadic 1 – 10%</td>
</tr>
<tr>
<td>Oil Distribution</td>
<td>Trace &lt; 1%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Step 2</th>
<th>Initial Categorization of Surface Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Heavy</td>
</tr>
<tr>
<td>Average Thickness</td>
<td>Pooled Oil &gt; 1 cm</td>
</tr>
<tr>
<td>Average Thickness</td>
<td>Cover 0.1 – 1.0 cm</td>
</tr>
<tr>
<td>Average Thickness</td>
<td>Coat 0.01 – 0.1 cm</td>
</tr>
<tr>
<td>Average Thickness</td>
<td>Stain/Film &lt; 0.01 cm</td>
</tr>
</tbody>
</table>
The Data: SOS Form

Can be enough on small spills.  
Lots of problems using this for large spills.

The Information: Extent of Oiling

<table>
<thead>
<tr>
<th>Most Recent Survey Date</th>
<th>Heavy</th>
<th>Moderate</th>
<th>Light</th>
<th>Very Light</th>
<th>(+1%)</th>
<th>No Oil Obs.</th>
<th>Background</th>
<th>Total Oiled Shoreline</th>
<th>Total Surveyed Shoreline</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/28/2015</td>
<td>2.54</td>
<td>6.8%</td>
<td>34.1%</td>
<td>11.1%</td>
<td>31.7%</td>
<td>1.8%</td>
<td>1.0%</td>
<td>29.4%</td>
<td>37435</td>
</tr>
</tbody>
</table>
“Snapping”

Or,

How to avoid briefing the UC on ancient Greek philosophy.

The length and location of these lines are different.

But they need to be the same.

Extent of oiling is NOT a sum of track lines.

It is calculated by “snapping” observed oiling zones to a canonical shoreline.

No man ever steps in the same river twice, for it is not the same river and it is not the same man.

~ 500 BC
Shoreline Treatment Recommendations

Cleanup Recommendations
Sign Off Process
SCAT Data Management
We Need a Common Data Standard

- Multiple data entry options
- Integration with other systems
  - (photos, documents, COP, Archives)
- Foster development
- Interoperability!
THE END