WELCOME

North Slope Borough: Oil Spill Workshop

November 8 - 9, 2012
Logistics

• Fire Exits
• Restrooms
• Shuttle buses to Top of the World
  • 8:15 and 8:30 AM
• Dining: breakfasts, lunches & snacks
• This evening
  • Fran Ulmer US Arctic Research Commission presentation & reception
  • In library at 5 PM
  • Open to all
• Logistical questions see Kathy Mandsager or me
Thank You

• Thank you for warm welcome
• Thank you to North Slope Borough
• Thank You to National Oceanic and Atmospheric Administration (NOAA) and Oil Spill Recovery Institute (OSRI) for funding workshop
• Thank you to US Park Service and Tuzzy Library for facilities
Thank You

• Thank you: Workshop Organizing Committee
  • North Slope Borough
    • Mayor’s Office
    • Wildlife Management
  • Inupiat Council of Arctic Slope
  • Alaska Eskimo Whaling Commission
  • Oil Spill Recovery Institute
  • US Arctic Research Commission
  • State of Alaska Department of Environmental Conservation
  • National Oceanic and Atmospheric Administration
THANK YOU Participants!
Coastal Response Research Center (CRRC)

• Partnership between NOAA’s Office of Response and Restoration and the University of New Hampshire

• Since 2004
  • UNH Co-Director - Nancy Kinner
  • NOAA Co-Director - Amy Merten
Overall CRRC Mission

- Conduct and oversee basic and applied research and outreach on spill response and restoration
- Transform research results into practice
- Serve as hub for oil spill R&D
- Facilitate workshops bringing together ALL STAKEHOLDERS to discuss spill issues and concerns
Arctic Marine Shipping Assessment (AMSA 2009)

- Less and less ice
- Increased shipping activity
- Increased drilling activity
- More activity/traffic = Higher risk of accidents
- Recommendation = Prepare for accidents
  - Oil spills
  - Prepare at national, state and local levels
OIL SPILL
(Offshore or Coastal)

Response

Natural Resource Damage Assessment (NRDA)

Restoration and Recovery
Oil Spill Response

- **Natural weathering processes** = evaporation, natural dispersion, dissolution, biodegradation, settling, photolysis

- **Response methods** =
  - Oil removal processes (booms/skimmers, sorbents, chemical herders, burning, shoreline collection) Usually \( \leq 20\% \) of oil spilled
  - Chemical dispersants
2010 Deepwater Horizon Oil Spill

Response Estimate

- Direct Recovery from Well Head: 17%
- Burned: 5%
- Skimmered: 3%
- Chemically Dispersed: 8%
- Naturally Dispersed: 16%
- Remaining: 26%
- Evaporated or Dissolved: 25%

Total Response Methods = 16%

* Remaining oil is either at the surface as light sheen or weathered tar balls, has been biodegraded, or has already come ashore.
Workshop Background

• April 2010 - CRRC hosted workshop in Anchorage “NRDA in Arctic Waters: The Dialogue Begins”
  • Goal: initiate dialogue to identify data gaps for resources at risk from oil spill needed for NRDA

• April 2011 - CRRC hosted workshop in Anchorage “Arctic ERMA®”
  • ERMA = web-based software provides information & tools to support planning, response and restoration decision-making
  • Goal: Gather data sets etc to make ERMA more useful
Workshop Background

- **April 2011**: Arctic Communities Organizing Committee formed
  - Have workshops in Arctic communities
  - Gather community input directly
- Northwest Arctic Borough workshop held in Kotzebue: May 2012
- North Slope Borough workshop in Barrow: Nov 2012
- **Continue collaborative discussions on NRDA and Arctic ERMA**
Specific Barrow Workshop Goals

- Discuss community involvement in spill response and natural resource damage assessment (NRDA)
- Integrate local community information into Arctic ERMA (Environmental Response Management Application)
- Enhance relationships between local communities & governmental agencies regarding planning and preparation for potential oil spill response & restoration
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 AM</td>
<td>Opening Prayer</td>
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<tr>
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<td>Welcome - North Slope Borough</td>
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<tr>
<td>9:05 AM</td>
<td>Welcome, Overview and Goals of Meeting</td>
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<td></td>
<td>Nancy E. Kinner, <em>UNH Director, Coastal Response Research Center</em></td>
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<tr>
<td>9:25 AM</td>
<td>Report on the Northwest Arctic Borough Oil Spill Workshop</td>
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<td>Ukallaysaaq Tom Oklesak, <em>Northwest Arctic Borough</em></td>
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<tr>
<td>9:40 AM</td>
<td>Participant Introductions &amp; Expectations</td>
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<td>10:20 AM</td>
<td>Break</td>
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<tr>
<td>10:30 AM</td>
<td>Overview of Spill Response</td>
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<td></td>
<td>Dale Gardner, <em>Alaska Dept. of Environmental Conservation, Division of Spill Prevention &amp; Response</em></td>
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<td></td>
<td>Overview of Alaska Department of Environmental Conservation’s Role in Spill Response</td>
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<td></td>
<td>Thomas DeRuyter, <em>Alaska Department of Environmental Conservation</em></td>
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<tr>
<td></td>
<td>Overview of North Slope Borough’s Role in Spill Response</td>
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<td>Gordon Brower, <em>North Slope Borough, Community Planning Division</em></td>
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<tr>
<td>11:15 AM</td>
<td>Introduction to Arctic ERMA®</td>
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<td>Amy Merten, <em>NOAA, Assessment and Restoration Division, Spatial Data Team</em></td>
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<tr>
<td>12:00 PM</td>
<td>Lunch (provided)</td>
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Thursday Afternoon

1:30 PM Small Group Breakout Session I: Discussion of Oil Spill Response & Arctic ERMA®
Theme: Logistics of spill response, concerns and how local communities can most effectively participate and how ERMA® can help

Breakout Group Questions:
- What specific concerns do you have relative to planning and preparation for spill response?
- What specific concerns do you have relative to spill response implementation and management?
- What are best practices for community involvement in spill response, planning, and preparation?
- What are your initial reactions to Arctic ERMA®?
- How could the tool be useful for community involvement in spill response?
- What information would you like to see included in the tool to support response decisions?

2:30 PM Break

2:45 PM Group Reports to Plenary Session

4:30 PM Adjourn meeting

5:00 PM Presentation: “How can science improve decision-making in the Arctic?”
Fran Ulmer, U.S. Arctic Research Commission
(Reception to follow—Library)
Breakout Group Questions

Session I: Discussion of Oil Spill Response & Arctic ERMA

Theme: Logistics of spill response, concerns, how local communities can most effectively participate, and how ERMA can help

- What specific concerns do you have relative to planning and preparation for spill response?
- What specific concerns do you have relative to spill response implementation & management?
- How could the tool be useful for community involvement in spill response?
- What are best practices for community involvement in spill response, planning, and preparation?
- What are your initial reactions to Arctic ERMA?
- What information would you like to see included in the tool to support response decisions?
Friday Morning

AGENDA - DAY 2

8:30 AM  Opening Prayer and Announcements
         Nancy Kinner

8:45 AM  Introduction to Natural Resource Damage Assessment (NRDA), Restoration/Recovery
         Mary Baker, NOAA, Assessment & Restoration Division

         Arctic ERMA® in NRDA and Restoration/Recovery
         Amy Merten, Mary Baker

10:15 AM  Small Group Breakout Session II: Discussion of NRDA, Restoration/Recovery
         Theme: Logistics of NRDA, concerns, how local communities can most effectively participate, and how ERMA can help

Breakout Group Questions:
- What effects of oil spills most concern you (for example, health and use of natural resources)?
  ◦ Marine mammals
  ◦ Birds
  ◦ Fish
  ◦ Crab or other shellfish
  ◦ Land mammals
  ◦ Other cultural concerns (for example, education, language, arts)
- Are there special habitats or specific areas that you are most concerned about? (for example, sensitive areas, historical sites, camp areas)
- Given the changing Arctic environment, what background/baseline information do you think we need to consider about the health of the environment before a spill occurs?
- How could the ERMA tool be useful for evaluating effects of spills?
- What information would you like to see included in the tool to support evaluation of effects?
- What are best practices for community involvement in evaluating effects?

11:45 AM  Lunch (provided)
Breakout Group Questions

Session II: Discussion of NRDA, Restoration, and Recovery

Theme: Logistics of NRDA, concerns, how local communities can most effectively participate, and how ERMA can help

• What effects of oil spills most concern you (for example, health and use of natural resources)?
• Are there special habitats or specific areas that you are most concerned about? (sensitive areas, historical sites, camp areas)
• Give the changing Arctic environment, what background/baseline information do you think we need to consider about the health of the environment before a spill occurs?
• How could the ERMA tool be useful for evaluating effects of spills?
• What information would you like to see included in the tool to support evaluation of effects?
• What are best practices for community involvement in evaluating effects?
Friday Afternoon

12:45 PM  Small Group Breakout Session III: Discussion of NRDA, Restoration & Recovery
   Theme: Exploring restoration options and how ERMA® can help

Breakout Group Questions:
- What specific concerns do you have relative to restoration and recovery?
- Are there examples of habitat areas that could be improved?
- Are there other sources of contamination that could be controlled?
- What traditional methods of restoration and recovery are practiced?
- What could be done to sustain cultural and subsistence practices that might be affected by oil?
- What are best practices for community involvement in restoration and recovery?
- How could the ERMA tool be useful for planning restoration?
- What information would you like to see included in the tool to support restoration planning?

2:45 PM  Group Reports to Plenary Session

3:15 PM  Wrap Up

4:00 PM  Adjourn
Session III: Discussion of NRDA, Restoration, and Recovery

Theme: Logistics of NRDA, concerns, how local communities can most effectively participate, and how ERMA can help

- What specific concerns do you have relative to restoration and recovery?
- Are there examples of habitat areas that could be improved?
- Are there other sources of contamination that could be controlled?
- What traditional methods of restoration and recovery are practiced?
- What could be done to sustain cultural and subsistence practices that might be affected by oil?
- What are best practices for community involvement in restoration and recovery?
- How could the ERMA tool be useful for planning restoration?
- What information would you like to see included in the tool to support restoration planning?
Workshop Outcomes

• Report on workshop to be widely circulated
  • Federal and state agencies
  • Report from NWAB available today
• Improved Arctic ERMA®
• Enhanced relationships between communities & government agencies
Workshop Aspirations

• We will speak honestly
• We will listen to and hear one another
• We will respect each other’s views
• We will have an open and fair forum
• We will have faith that we can find common ground
• All views will be documented and reflected in workshop report
• Workshop will provide benefit to all
Facilitation Pledge

• I will recognize and encourage everyone to speak
• I will discourage side conversations
• I commit to:
  • Being engaged in meeting
  • Keeping us on task and time
  • Being neutral, fair, kind, and faithful to the process
• Stop me if I am not doing this!
Ukallaysaaq Tom Okleasik

Northwest Planning, Inc
Kotzebue, AK
Participant Introductions

- Name
- Affiliation
- Community/organization representation
- What is your hope for this workshop?
Dale Gardner

Alaska Dept. of Environmental Conservation
Division of Spill Prevention & Response
Tom DeRuyter
Alaska Dept. of Environmental Conservation
Division of Spill Prevention & Response

State On-Scene Coordinator
Gordon Brower
North Slope Borough
Dept of Planning & Community Services
Deputy Director
Breakout Group Questions

Session I: Discussion of Oil Spill Response & Arctic ERMA

Theme: Logistics of spill response, concerns, how local communities can most effectively participate, and how ERMA can help

• What specific concerns do you have relative to planning and preparation for spill response?
• What specific concerns do you have relative to spill response implementation & management?
• How could the tool be useful for community involvement in spill response?
• What are best practices for community involvement in spill response, planning, and preparation?
• What are your initial reactions to Arctic ERMA?
• What information would you like to see included in the tool to support response decisions?
## Breakout Group Assignments

<table>
<thead>
<tr>
<th>Group A</th>
<th>Group B</th>
<th>Group C</th>
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<tbody>
<tr>
<td>Heritage Center</td>
<td>Heritage Center</td>
<td>Library - Classroom</td>
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<tr>
<td><strong>Group Lead:</strong> Tom DeRuyter</td>
<td><strong>Group Lead:</strong> Robert Taylor</td>
<td><strong>Group Lead:</strong> Cheryl Rosa</td>
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<tr>
<td>(or Mary Baker or Dale Gardner)</td>
<td>(or Rachel Aronson)</td>
<td>(or Allison Bailey)</td>
</tr>
<tr>
<td><strong>Recorder:</strong> Jessica McGarth</td>
<td><strong>Recorder:</strong> Rachel Aronson</td>
<td><strong>Recorder:</strong> Erika Amman</td>
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<tr>
<td>Ray Atos</td>
<td>Harry Brower, Jr</td>
<td>Richard Camilleri</td>
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<tr>
<td>Mary Baker</td>
<td>Price Brower</td>
<td>Elle Edie</td>
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<tr>
<td>Lauren Berdow</td>
<td>Sarah Coburn</td>
<td>Dale Gardner</td>
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<tr>
<td>Rusty Brown</td>
<td>Jennifer Dushane</td>
<td>Lee Kayotuk</td>
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<td>Ethel Burke</td>
<td>Theresa Imm</td>
<td>Clark Lane</td>
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<tr>
<td>Doreen Lampe</td>
<td>Amy Morden</td>
<td>Joseph LoScuro</td>
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<tr>
<td>Robert Miller</td>
<td>Billy Blair Patkotak</td>
<td>Tom Okleesk</td>
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<td>George Olemann</td>
<td>Emma Pekon</td>
<td>Thomas Olemann</td>
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<td>Lloyd Paningona</td>
<td>Joe Sage</td>
<td>Todd Stormo</td>
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<tr>
<td>Fran Ulmer</td>
<td>Neeshal Stelrecht</td>
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<th>Group D</th>
<th>Group E</th>
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<tbody>
<tr>
<td>Library - Director’s Office</td>
<td>Library - Video Conference Room</td>
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<tr>
<td><strong>Group Lead:</strong> Gary Shigenaka</td>
<td><strong>Group Lead:</strong> Sarah Allan</td>
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<tr>
<td><strong>Recorder:</strong> Zach Winters Staszak</td>
<td><strong>Recorder:</strong> Joe Inslee</td>
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<tr>
<td>Rhoda Ahmaogak</td>
<td>Martha Awalin</td>
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<tr>
<td>Illy Aweoganna</td>
<td>Gordon Brower</td>
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<td>Johnny Aiken</td>
<td>Craig Gerlach</td>
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<td>Charlie Brower</td>
<td>Martha Grabowski</td>
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<td>Eleanor Huffines</td>
<td>Banksy Lloyd</td>
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<td>Ernest Nageak, Jr</td>
<td>George Noongwook</td>
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<td>Jonah Nakapigak</td>
<td>Crawford Patkotak</td>
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<td>Vernon Redford</td>
<td>Teri Rowles</td>
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<tr>
<td>Chris Smith</td>
<td>Robert Sydam</td>
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<tr>
<td>Veronica Varela</td>
<td>Vera Williams</td>
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