

WELCOME

North Slope Borough: Oil Spill Workshop

Day 2



Coastal Response Research Center

**THANK YOU
Participants!**



Coastal Response Research Center

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!**



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/skimbers, sorbents, chemical herders, burning, shoreline collection) **Usually $\leq 20\%$ of oil spilled**
 - Chemical dispersants



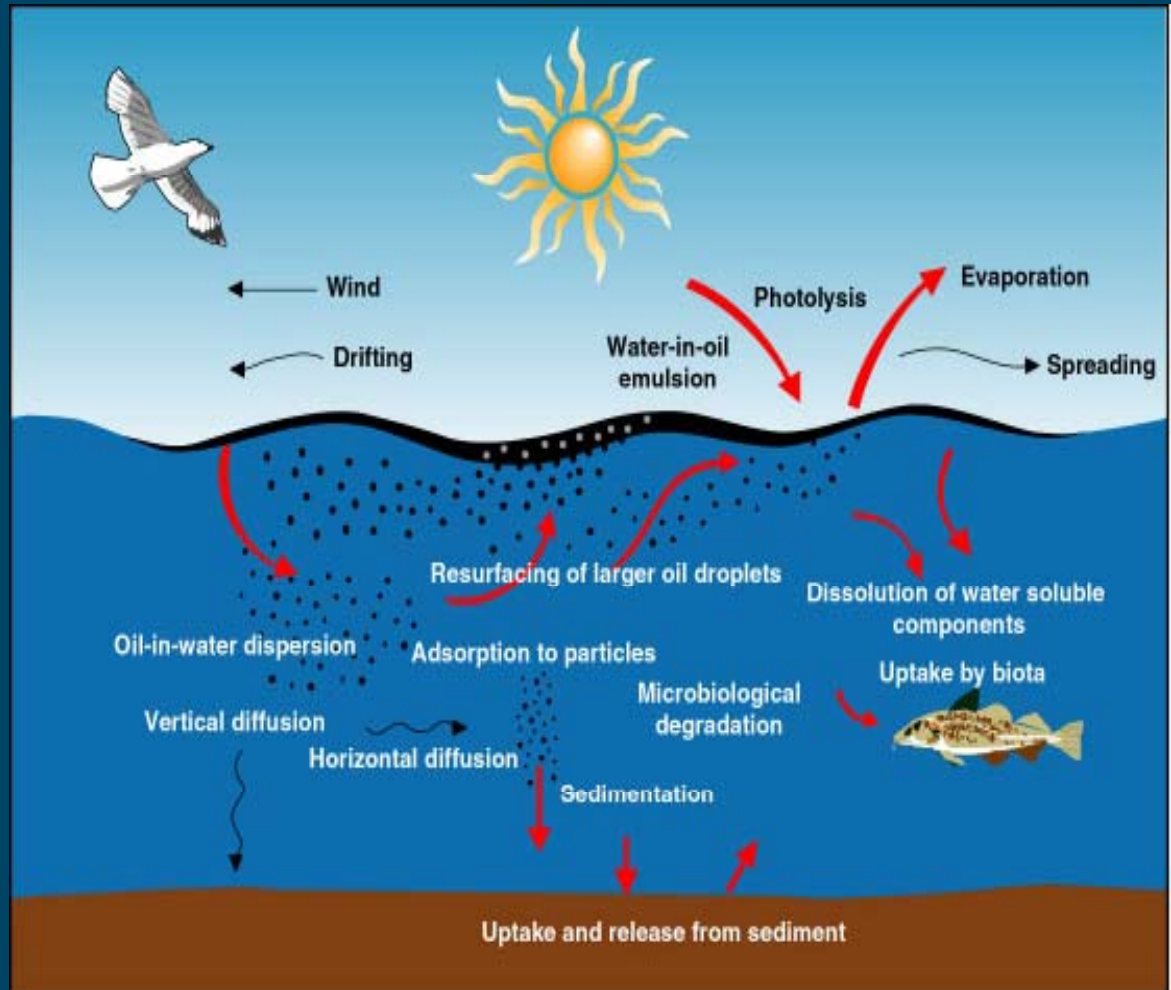
Where Does the Rest of the Oil Go?

- Typically $\leq 20\%$ is removed by engineered processes
- Remaining oil goes through weathering processes



Natural Weathering Processes

- Function of Environmental Conditions
 - Temperature
 - (H₂O, Air)
 - Wind
 - Oil Type
 - Currents, Tides
 - Ice



Fate of Weathered Oil

- Complex
- We are recording your questions and concerns
- March 2013 four week lecture series
 - Collaboration with Tuzzy Library and Ilisagvik College



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?**



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?**



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**



Breakout Group Assignments

Group A Heritage Center	Group B Heritage Center	Group C Library - Classroom
Group Lead: Tom DeRuyter (or Mary Baker or Dale Gardner)	Group Lead: Robert Taylor	Group Lead: Cheryl Rosa
<i>Recorder: Jessica McGrath</i>	<i>Recorder: Rachel Aronson</i>	<i>Recorder: Allison Bailey</i>
Ray Atos Mary Baker Lauren Berdow Rusty Brown Ethel Burke Doreen Lampe Robert Miller George Olemaun Lloyd Paningona Fran Ulmer	Harry Brower, Jr Price Brower Sarah Coburn Jennifer Dushane Theresa Imm Amy Merten Billy Blair Patkotak Emma Pokon Joe Sage Neesha Stellrecht	Erika Amman Richard Camilleri Elle Ede Dale Gardner Lee Kayotuk Clark Lane Joseph LoScuito Tom Okleasik Thomas Olemaun Todd Sformo

Group D Library - Director's Office	Group E Library - Video Conference Room
Group Lead: Gary Shigenaka	Group Lead: Sarah Allan
<i>Recorder: Zach Winters Staszak</i>	<i>Recorder: Joe Inslee</i>
Rhoda Ahmaogak Lilly Aveoganna Johnny Aiken Charlie Brower Eleanor Huffines Ernest Nageak, Jr Jonah Nukapigak Vernon Rexford Chris Smith Veronica Varela	Martha Awalin Gordon Brower Craig Gerlach Martha Grabowski Barkley Lloyd George Noongwook Crawford Patkotak Teri Rowles Robert Suydam Vera Williams



Co

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



- www.crrc.unh.edu/workshops

