



NOAA Science of Oil Spills Class

**Presented by the Office of Response and Restoration,
Emergency Response Division**

Monday

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|-----------|--|
| 1230–1300 | Sign-in |
| 1300–1345 | Welcome / logistics / introductions and overview |
| 1345–1430 | Who are we? Introduction to NOAA OR&R |
| 1430–1445 | BREAK |
| 1445–1545 | Scenario introduction |
| 1545–1600 | BREAK |
| 1600–1630 | Capturing initial information |
| 1700–? | Happy Hour (optional) |



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Tuesday

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|-----------|--|
| 0800–0815 | Coffee |
| 0815–0900 | Oil chemistry and oil properties |
| 0900–0915 | BREAK |
| 0915–1000 | Oil weathering and biodegradation |
| 1000–1015 | BREAK |
| 1015–1115 | Oil spill physical transport processes, windage & tidal excursion exercise |
| 1115–1130 | BREAK |
| 1130–1215 | Oil and ice |
| 1215–1315 | LUNCH |
| 1315–1400 | Review & Jeopardy game |
| 1400–1445 | Aerial observations for tracking oil |
| 1445–1500 | BREAK |
| 1500–1630 | Oil spill modeling: models, forecasts, and uncertainty. Trajectory scenario exercise. |



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Wednesday

- 0800–0815 Coffee
- 0815–0845 Case Study: W. Falmouth Barge *Florida* spill
- 0845–0915 A review of recent research on dispersants and oil spill effects
- 0915–0945 Perspectives on communicating science
- 0945–1000 **BREAK**
- 1000–1045 Marine ecology
- 1045–1100 **BREAK**
- 1100–1145 Environmental Sensitivity Index (ESI) maps
- 1145–1200 ESI exercise
- 1200–1300 **LUNCH**
- 1300–1320 Sediment penetration exercise
- 1320–1415 Shoreline oil behavior & shoreline cleanup overview
- 1415–1445 Drive to Little Sippewissett Marsh
- 1445–1615 Field trip at Little Sippewissett Marsh
- 1615–1630 Field trip debrief (in the field)
- 1700–? Happy Hour (optional)



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Thursday

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|-----------|---|
| 0800–0815 | Coffee |
| 0815–0925 | Effects of oil; oiled feather exercise |
| 0925–0940 | BREAK |
| 0940–1010 | National Marine Fisheries Service (NMFS) response protocols |
| 1010–1120 | Environmental tradeoffs and “How clean is clean?” |
| 1120–1130 | BREAK |
| 1130–1200 | Natural Resource Damage Assessment (NRDA) |
| 1200–1300 | LUNCH |
| 1300–1345 | Shoreline Cleanup Assessment Technique (SCAT) |
| 1345–1400 | BREAK |
| 1400–1445 | Understanding stakeholder interests |
| 1445–1500 | BREAK |
| 1500–1530 | Emerging risks |
| 1530–1630 | <i>Exxon Valdez</i> oil spill movie and “4 Spills” discussion |



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Friday

0800–0815 Coffee

0815–0835 Toxicity, oil, dispersants, and dispersed oil

0835–0915 Dispersants and dispersed oil

0915–0930 **BREAK**

0930–1030 On-water response strategies: in-situ burning & mechanical recovery

1030–1045 **BREAK**

1045–1115 Herders, dispersants, and ice

1115–1145 Response data; information management

1145–1200 Final review; return to questions generated
in scenario introduction