PISCES II
(Potential Incident Simulation Control and Evaluation System)

Protection Strategy Simulation Modeling

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PISCES II Model and Model Parameters

• PISCES Model developed in late 1990’s

• Recently used in OSPR drills, and Navy drills

• Models oil movement on the water surface and compensates for deflection and removal estimates

• Oil type, oceanographic, weather, boom and skimmer placement parameters set by modeler
Objectives vs. Outcomes

• Model oil motion of complex spill protection strategies. Defined parameters for each site.
• Five strategies modeled this contract. (plus San Diego Bay Entrance.)

• Select single strategies from five of six ACPs.
  • Three ACPs utilized.

• Evaluate effectiveness of booming and skimming strategy absent oil on the water.
  • Some success. Some limitations.

• Make adjustments to the strategy based on model outcome.
  • Not in this undertaking – more about that.
Strategy Model Simulation
Bolinas Lagoon
Strategy Model Simulation
Elkhorn Slough
Strategy Model Simulation
Morro Bay
Strategy Model Simulation
Newport Harbor
Results & Findings

- Summary DVD of the original strategy effectiveness
- Share strategy models with respective Area Committee’s
- Increased interest following *Cosco Busan*
- Continue building “library” of sites
- Expand strategy testing for individual sites – build on developed models – skimmers/boom placement
- Need to improve water current/circulation databases – contractors to collect
Thank You.

Questions?