

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**

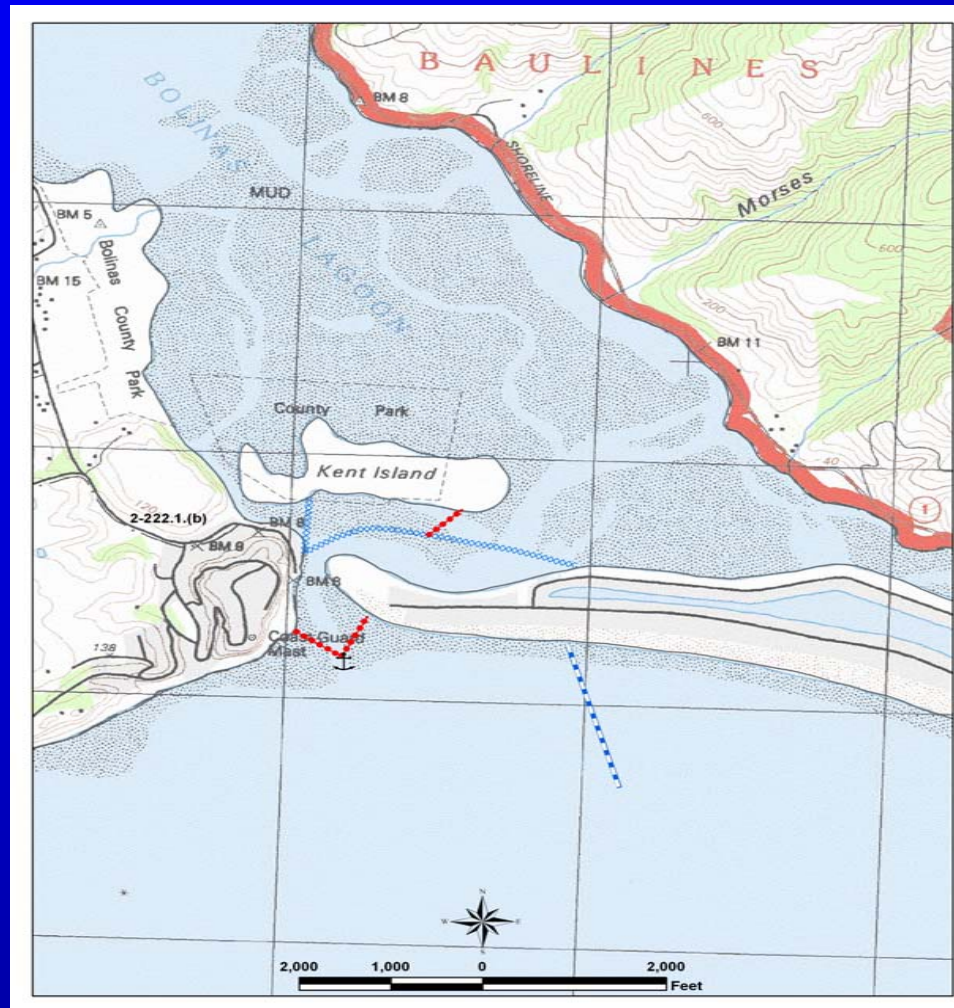
Objectives vs. Outcomes

- 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.**

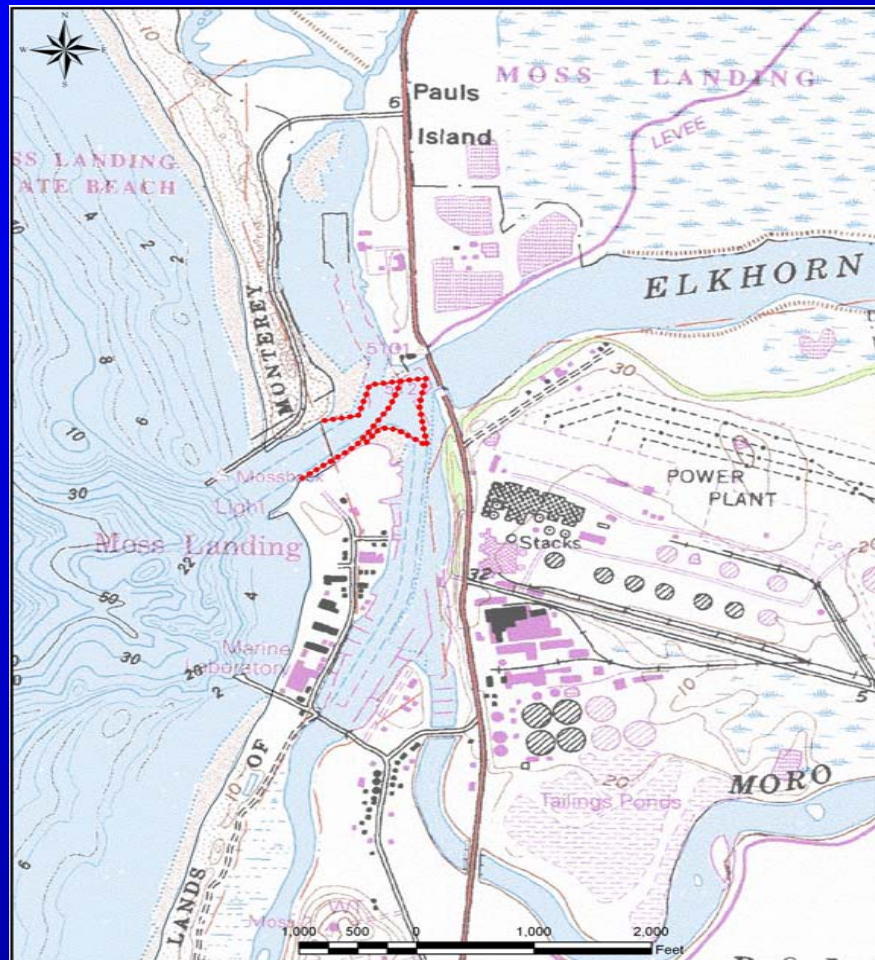
Strategy Model Simulation Humboldt Bay



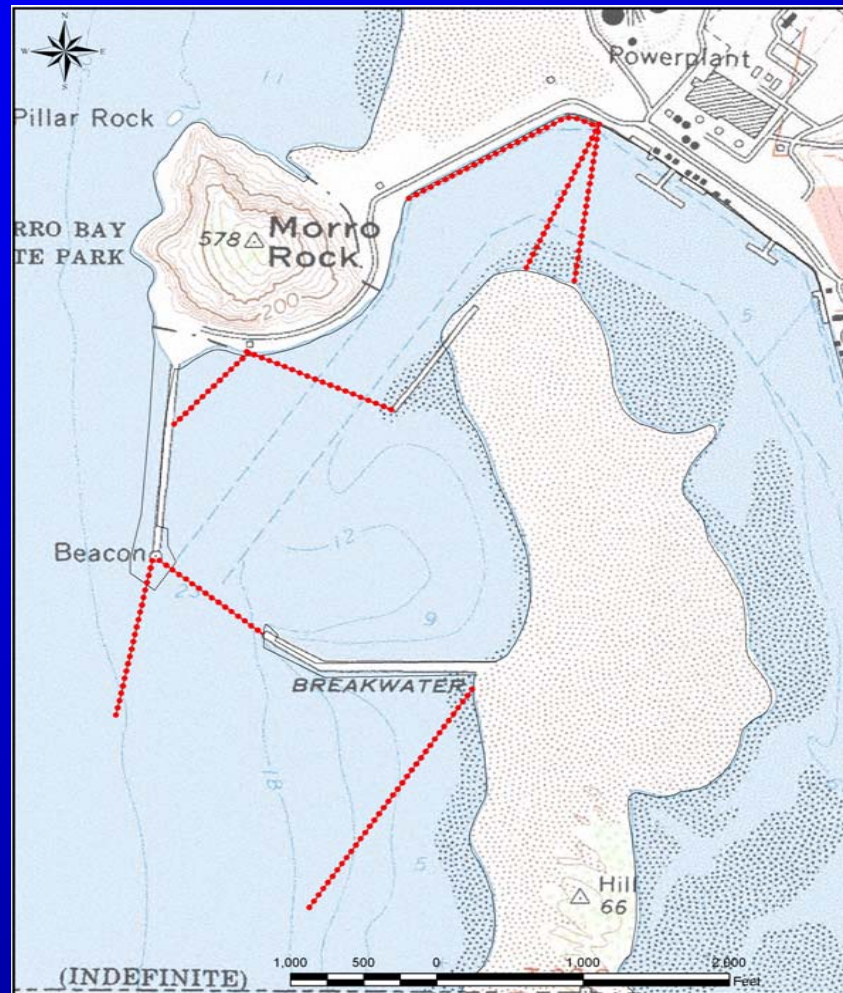
Strategy Model Simulation Bollinas Lagoon



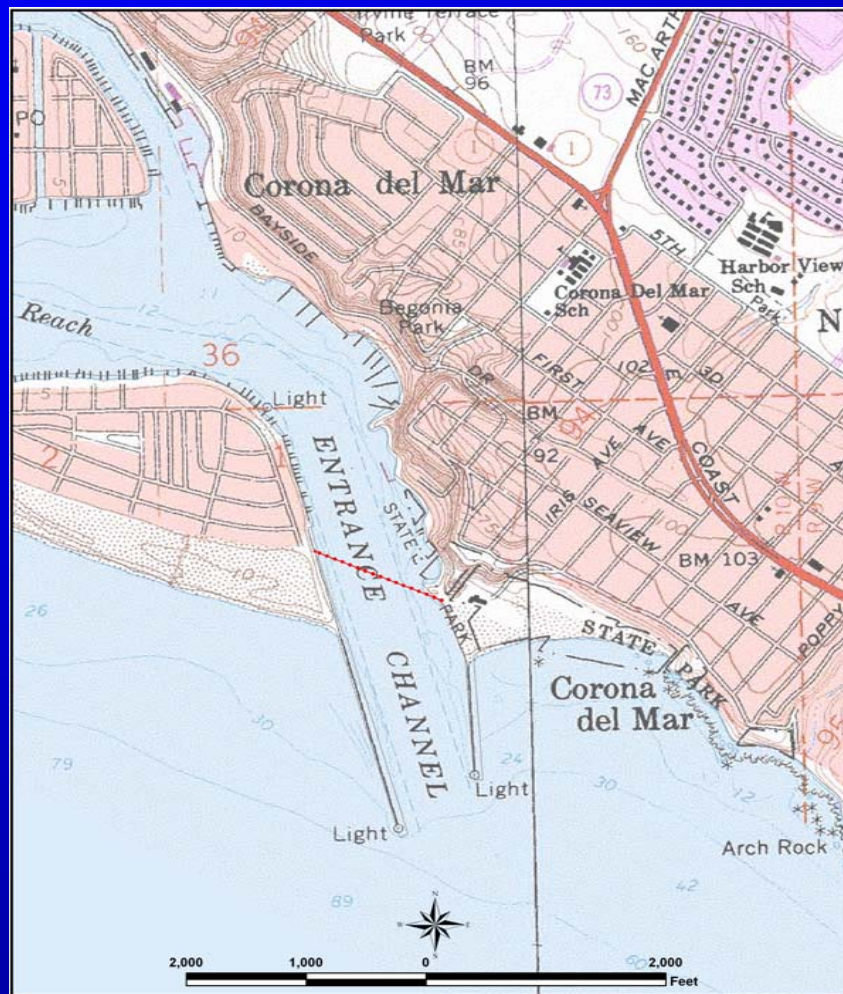
Strategy Model Simulation Elkhorn Slough



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?

