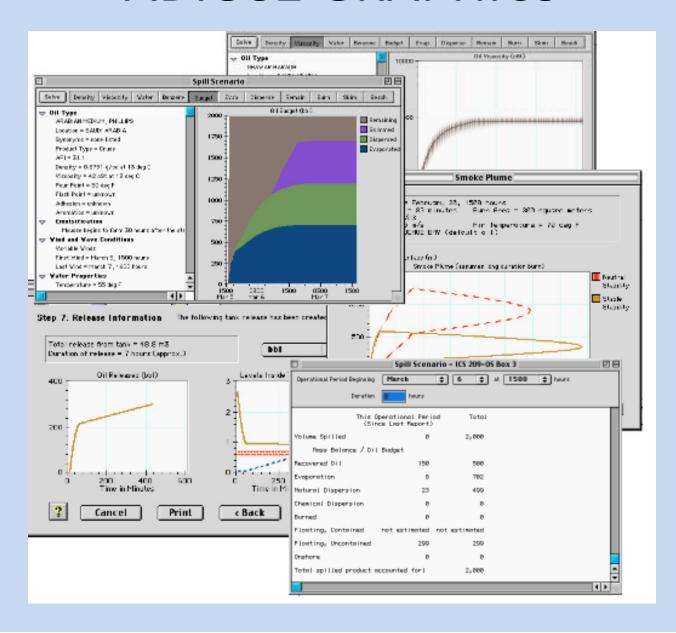
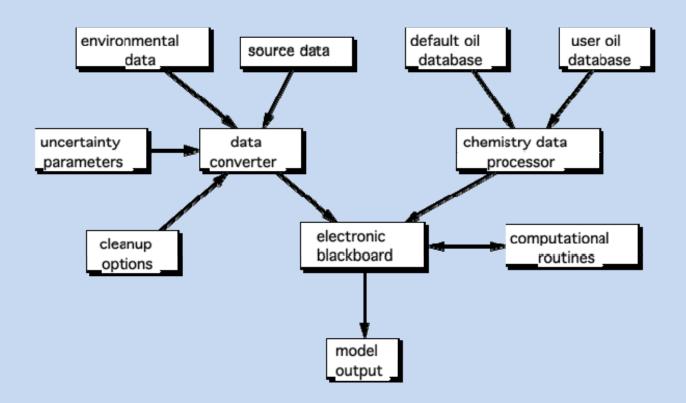
ADIOS2- The Legacy

 ADIOS2 (Automated Data Inquiry for Oil Spills) is an oil weathering model that incorporates a database containing more than a thousand crude oils and refined products, and provides quick estimates of the expected characteristics and behavior of oil spilled into the marine environment. The predictions it makes, presented as both graphics and text, are designed to help answer questions that typically arise during spill response and cleanup.

ADIOS2 GRAPHICS



ADIOS2 Structure



THE PRIMARY PURPOSE OF THE MODEL

ADIOS3

Is a RESPONSE Tool

Not a research project Not a damage assessment model Not for legal or political purposes



Information Quality Act

- Models are required to use data of known quality, apply sound analytical techniques, and undergo review before dissemination
- Third-party information are subject to the same requirements

What Platform?

ADIOS 1 ADIOS 2 ADIOS 3





POSSIBLE CONCEPTUAL DESIGN FOR THE NEW MODEL

 Like 'concept automobiles' the actual production model will not end up looking exactly like this strawman.

Consider this presentation as a topic for discussion

Assumption: You are somewhat familiar with ADIOS2





STRAWMAN



Oil Library

Refined products

Product names and simple properties

- Crude Oils
- (sort by name, API, location)

OR

Custom Oil

Go to properties screen

Oil names and simple properties





River spill



Vessel



Confined



Platform



Pipeline



Well blowout



Mystery slick



Leaking vessel

Total OR → Duration Rate (beginning) Rate (ending) **Units** OR Is vessel anchored (stationary)? **ADVANCED CALCULATION** Yes no



Environmental data

- Similar to ADIOS2 except adjustments for type of spill
- EXAMPLES-
- River spill will ask for current data, river cross section, and sediment load, but not fetch
- Leaking tanker that is not anchored will not ask for current data

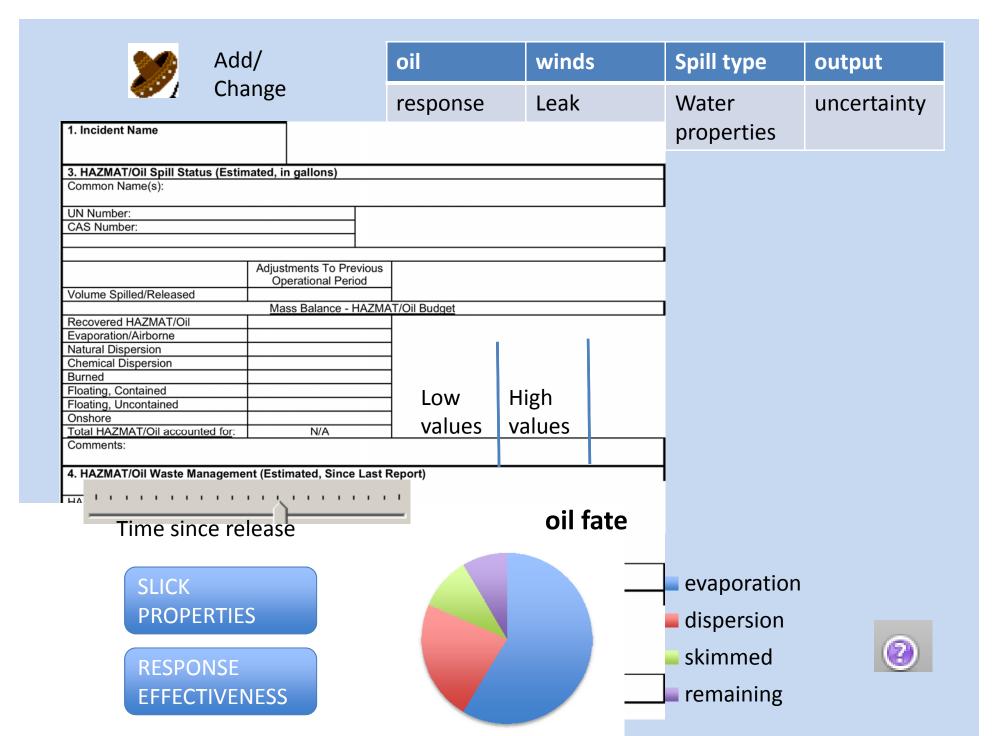
OR: template for NWS

UNITS

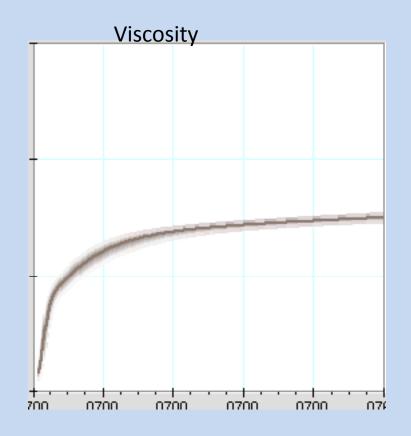
wind	knots
Wave height	feet

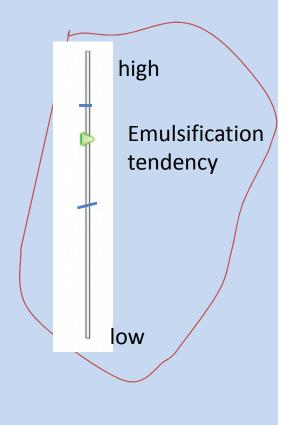
date	Monday	Tuesday	Wednesday	Thursday
Wind speed (10 m.)				
Wind direction (degree)				
Wave height				
Wave period (sec)				

Update response website



SLICK PROPERTIES







RESOURCES AT RISK

high

- How far from shore?
- Average water depth _____
- Beach types sand rocky marsh mangrove

low

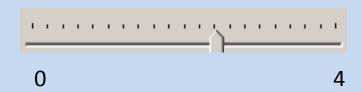
- Coral reefs? (yes/no)
- Rafting bird risk

Marine resources

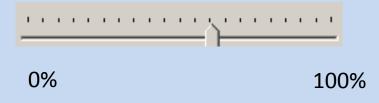


Response Utility Benefit/Cost

Skimming operations multiplier factor



Dispersant effectiveness operations



Apply changes to oil budget table

