

Summary of Break Out Group Reports

1. Could the model you just saw change your decision-making for the better?

A) If so, how? Describe how and list benefits, can they be quantified?

Spill Response/S&R:

- The model will help with planning, how to deploy assets efficiently and effectively; this will save money and help protect assets.

Beach Managers:

- Potential role in forecasting, the trend needs to be toward predictive modeling so that beach closures can be forecasted AHEAD OF TIME instead of after the fact.
- Additional information would need to be included in the model to make it really useful for beach monitoring. Any information about the water flow is helpful, but it's only one piece of the puzzle for water quality monitoring at a beach.

Source Water Protection:

- Model might help prevent false shut down and/or project when to shut down

B) If not, why?

Could be related to:

Resolution? Too coarse?

Accuracy? What level of uncertainty/risk can I absorb in my process

Time step? Is 6 hour update and 72 hour forecasting horizon adequate for my operation?

Delivery? Continuously updated web, hand held device; do I need interactive access?

Ice, etc?

Other?

Prioritize top 3.

Spill Response/S&R: (TOP ISSUES)

- Resolution: current 2d model ok; 3d probably needs to be more refined
- Accuracy/uncertainty/risk: It is good just to know and be able to tell the public what the uncertainty is
- *TIME STEP*: 30-60 minutes
- *DELIVERY* web-based, available 24/7, *RELIABILITY* key
- Ice: would be good to be able to see ice impact on currents and ice formation/breakup
- Overlay all information on navigation charts

Beach Managers:

The next iteration should include:

- GNOME-like effort to track pathogens/prediction
- Better level of confidence

- Incorporation of *PHYSICAL CHARACTERISTICS, METEOROLOGICAL DATA, NON-PHYSICAL DATA, LOCATION of KNOWN SOURCES*, e.g., waves (height, direction), rainfall, winds, related weather info/forecasts
- *GLOS SHOULD OVERLAY ALL RELEVANT DATA SETS* to facilitate complex decisions
- *TRIBUTARY & OUTFALL* plume forecasts
- Possibility of developing a public broadcast system/forecasting

Source Water:

- *Reliable, widely available, user friendly model*
- *Common interface*
- *Ability to update and modify the model*
- Better understanding of type of pollutant, fate, transport and dispersion
- Higher accuracy
- Need all weather – Ice necessary
- Model should not be accessible due to security
- Time-step as continuous as possible, 10-15 minutes

Additional Issues: development of a water quality model; integrate this into the source water monitoring system.

Collectively workshop attendees indicated that the 2d was useful, and that there were arguments for and against 3d model. GLOS Board and staff indicated they intend to continue the dialogue begun with the afternoon's meeting. In particular, to engage with the invitees who were unable to attend. One immediate proposal was to use the 2d model in conjunction with the NOAA GNOME (General NOAA Model Environment) to watch the next several spills to help clarify the strengths and weaknesses of the current 2d model, and refine notification processes and communication linkages. This will entail a partnership effort among GLOS, modelers, DEQ Drinking Water Unit and local source water managers.