

4D Stakeholder Questions

- Proposed grid thinning to 100m resolution for remainder 50m resolution segments
 - Bringing results to April BORG meeting
 - Reminder: 5 specific segments were discussed before and agreed to thin those segments. Thinning will help run time and allow users to use laptop to run model.
 - Group wanted to see results for the other 50m segments.
- 4D workflow diagram
 - In the works!
- 4D process/conceptual diagram
 - In the works!
 - In what parts of the model is certain data used?
 - When is continuous monitoring data used, at what time stamp (that year or historical), and subsampled?
 - What analyses are used at different parts of the tool?
- Mid-day space and time interpolation questions and answers will be added to the FAQ document and explained in more detail in 4D method documentation.
 - Subsample and weighting
 - Why do we need to subsample and weight the data: Overcome spatial bias caused by commons primarily being in shallow waters. Computing power is also a limiting factor that makes it reasonable to use an hourly timestep. If there is an area where there isn't an imbalance, the weighting doesn't impact the results.
 - Is this giving too much influence to fixed stations: Common/high frequency data is weighted because of the frequency of sampling. It is available every day while fixed station data is only available once every two weeks. High frequency data still has a lot of influence in the model because it is used in other parts of the tool (i.e., it is the only thing that influences daily cycles). The tool would not be possible without high frequency data.
 - Would a similar approach be taken with the array or mid-channel sampling absent of any shallow water common: Any high frequency data would use the same method.
 - Would the weighting be done on a segment-specific basis: The approach is a universal rule for the tool. The observational unit is one station, one depth, and one day. That is not different for a vertical array versus a common versus a fixed station.

- Data regions/boundaries
 - Previous short documentation developed with a few minor updates. Post this on BORG webpage and incorporate into FAQ and 4D method documentation.
- Discuss the schedule and feasibility of updating the correlation computations using new data as available going forward in operational mode.
- What are the cell values?
 - If the model yields 100 potential values for a cell for a given hour, what value (or values?) are compared to criteria and used to generate assessment curve?