

## Discussion: Questions for Tides Splinter Group from Project (via S. Desai)

### **BACKGROUND – currently expected SSH products:**

1. A "basic" product: **SSH** (no geophysical models applied) and **SSH ANOMALY** (MSS, ocean tide, load tide, body tide, pole tide, IB, and DAC all applied, internal tide not applied but provided).
2. An "expert" product: a copy of "basic", but also explicitly includes all of the geophysical corrections that were used to generate SSH anomaly noted above.

### **QUESTIONS FOR SPLINTER:**

1. Recommendation for barotropic ocean tide model(s) on ocean product. (Currently, we're baselining latest versions of FES and GOT, so endorsement of that baseline is a good "minimum" need for us).
2. Recommendation for model of "coherent" internal tide model(s) on ocean product.
3. If multiple models provided on product (e.g., presently FES and GOT), which model is recommended to be "applied" for the SSH anomaly that is provided on the product.
4. Recommendation on whether or not internal tide model on product should be "applied" when generating SSH anomaly (i.e., is the recommended model sufficiently mature/validated, or not) (maybe needs wider ST input?).
5. Our hope is to use consistent models for ocean and hydrology products. So for example, the load tide used for hydrology products would be consistent with the recommendations for (1) and (3). Thus, your splinter might give some thought to this impact.