



ARCFRESH

(Arctic Freshwater Budget)

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Environment and
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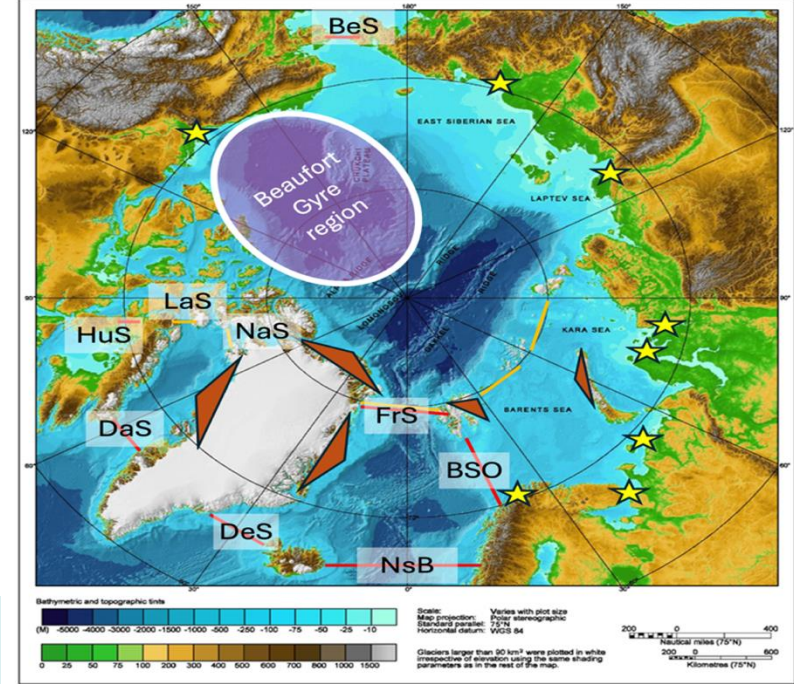
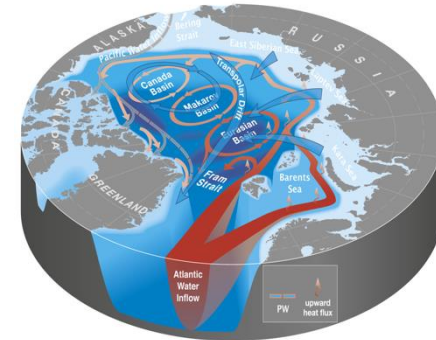


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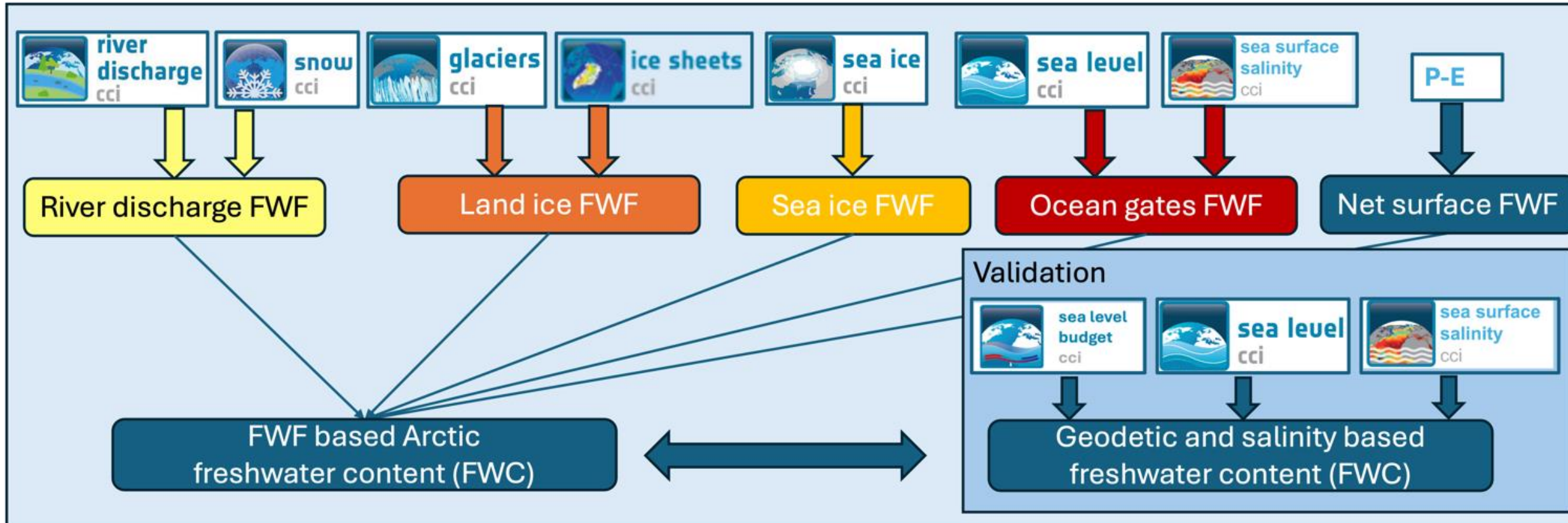


Scientific Topics to be addressed by ARCFRESH

- 1. Improve current estimates of lateral freshwater fluxes** between land, sea ice, and ocean in the Arctic. This topic focuses on refining our understanding and quantification of freshwater movements, critical for accurate modeling and predictions.
- 2. Determine the pan-Arctic and Sub-regional Freshwater Budget** in the Arctic Ocean and its evolution in the context of a changing climate. This involves a detailed analysis of the inputs, storage, and outputs of freshwater within the Arctic system, vital for assessing global climate impacts.
- 3. Investigate Extreme Freshwater Change Events**, such as an extreme Greenland or sea ice melt season, and their impact on the Arctic Ocean. This topic aims to understand the ramifications of such events on Arctic freshwater balance and broader climate implications.

For all these, the project will also develop a framework for robust handling of observation and model uncertainties.

CCI to be used in ARCFRESH



Look forward to cooperating with other CCI's