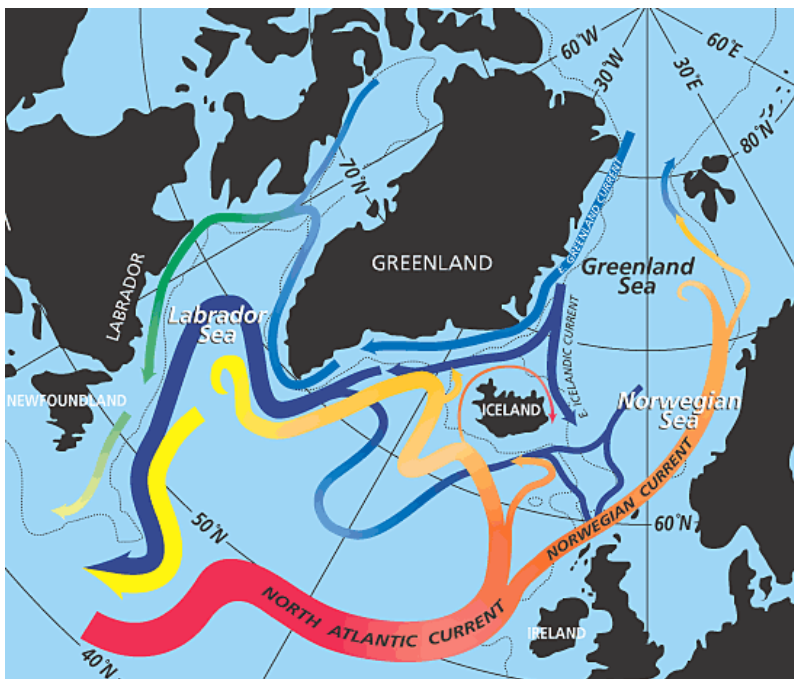


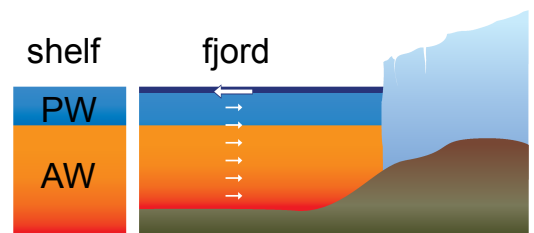
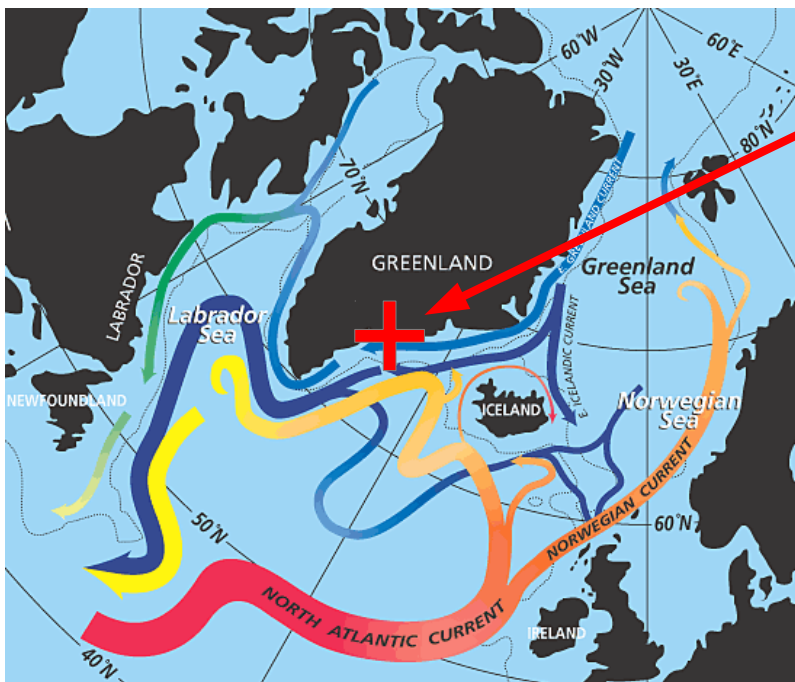
Hydrographic variability at the mouth of Sermilik fjord and the impact of winds

Ben Harden (WHOI), Fiamma Straneo (WHOI), David Sutherland (University of Oregon)



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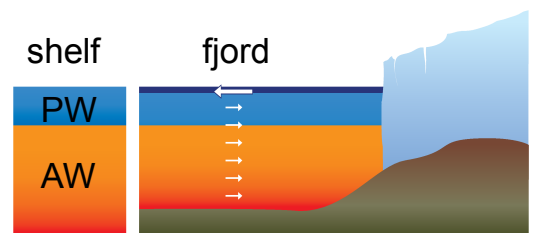
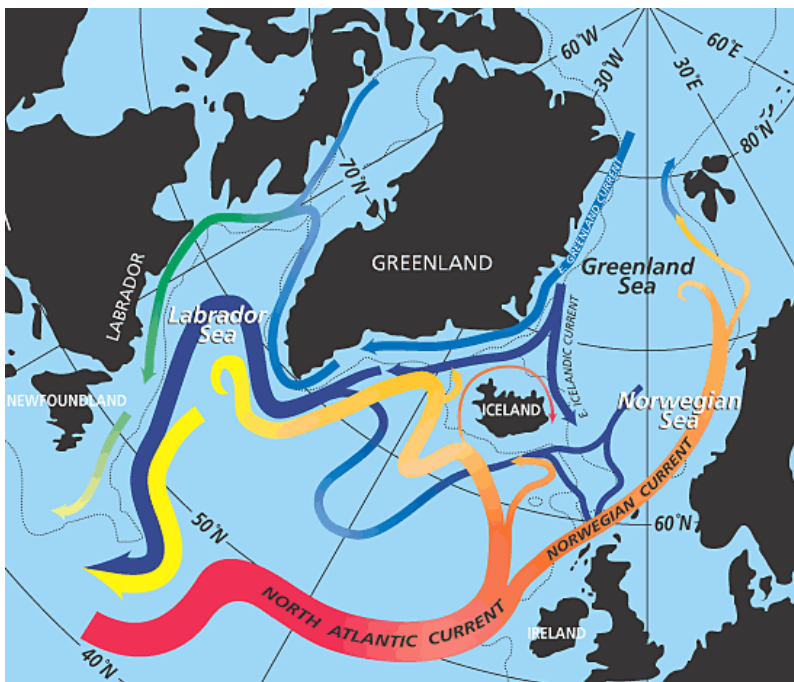
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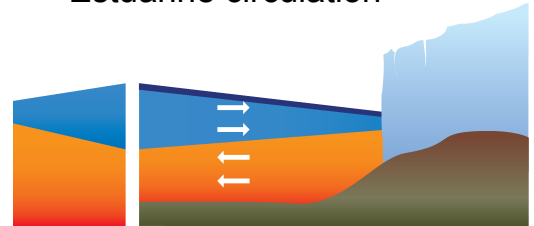
Estuarine circulation

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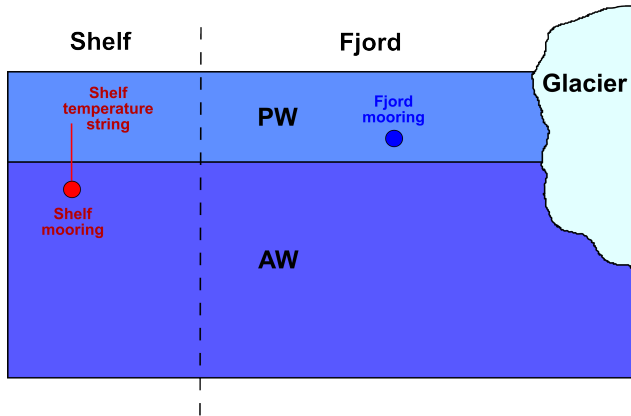
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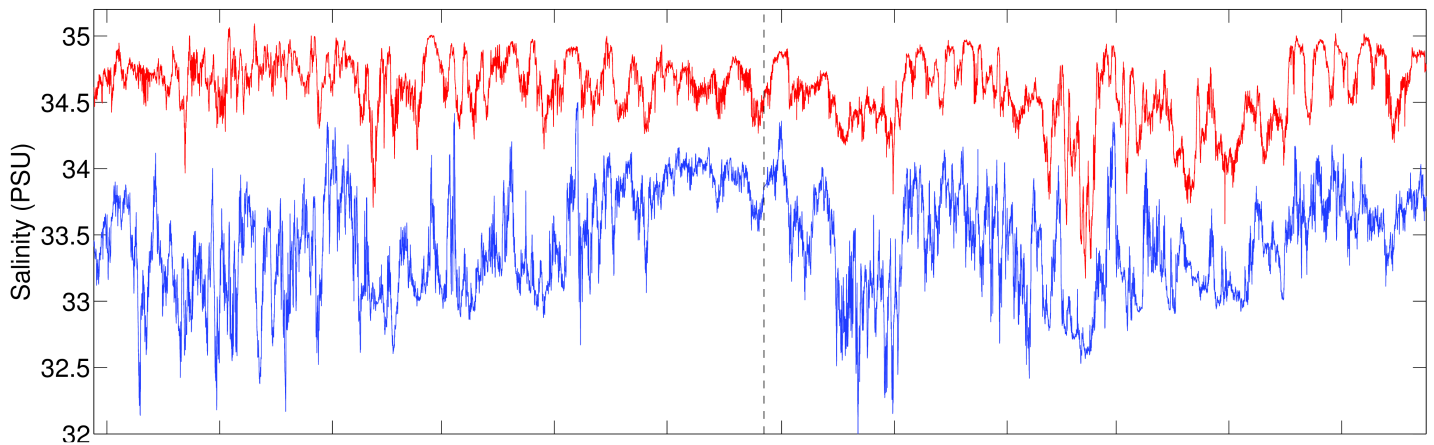
Estuarine circulation



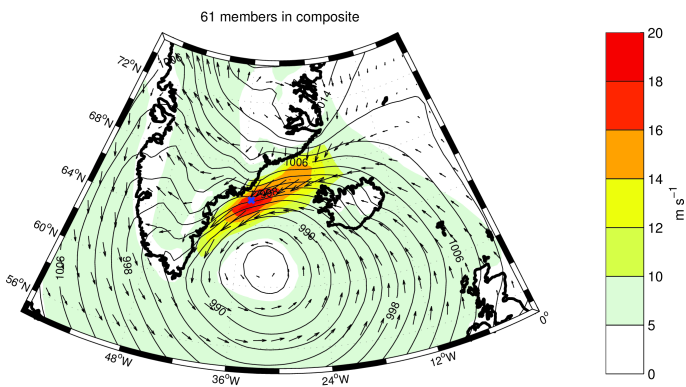
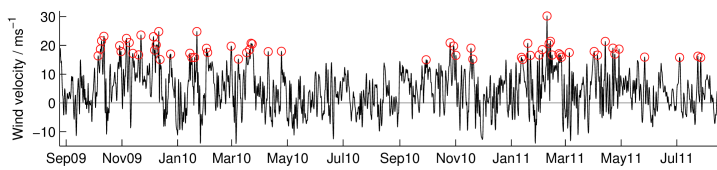
Intermediary circulation



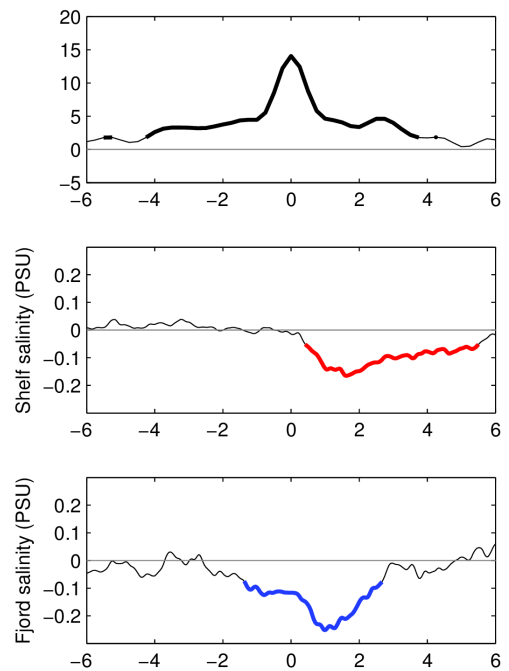
- Interface extremely active on temporal scales of 2-16 days
- Previously unresolved variability
- Height of interface undergoes fluctuations of 100 m or more.
- Similar variability in fjord



61 wind events > 15 m/s



Winds force interface down on shelf and in fjord



Questions going forward:

- What are the other sources of variability on the shelf?
- How relevant is this kind of forcing for other fjords in Greenland?
- How does fjord respond dynamically to shelf forcing?
- Does the exchange change properties in the fjord? Do these reach the tongue?