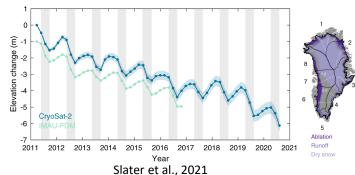
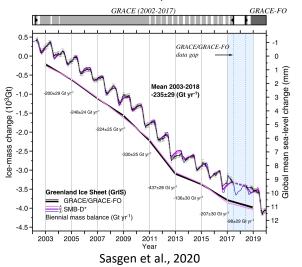
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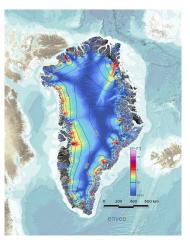


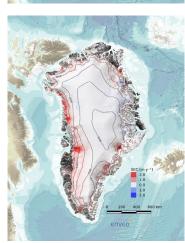
Mass Balance of the Cryosphere: The Greenland Ice Sheet

Current state









Remaining challenges

- To accurately be able to separate ice sheet from outer Glaciers and ice caps in the gravimetric mass balance -> this makes intercomparisons difficult.
- For the mass budget method and for basal melt estimates, more accurate bed topography is needed.
- Radar altimetry R&D is challenged by the great reduction in collected validation data (end of OIB and CryoVEX campaigns).
- A better understanding of firn processes in a warming climate is needed.
- We have now a lot of data how to best handle/combine them.