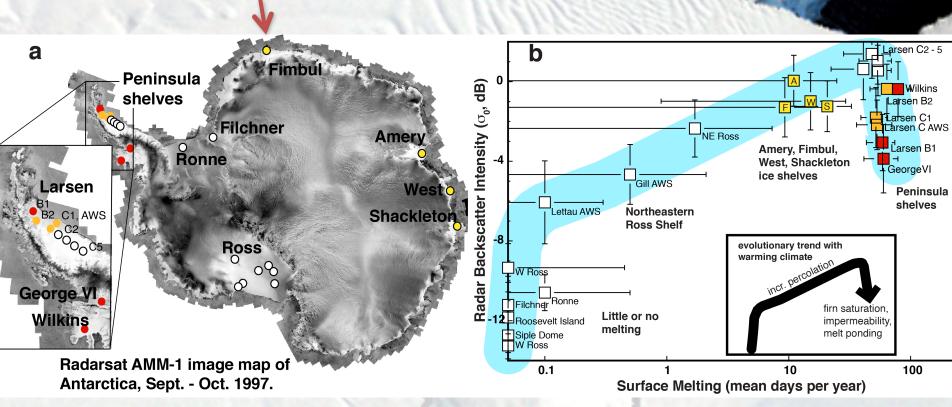


Quick recap:

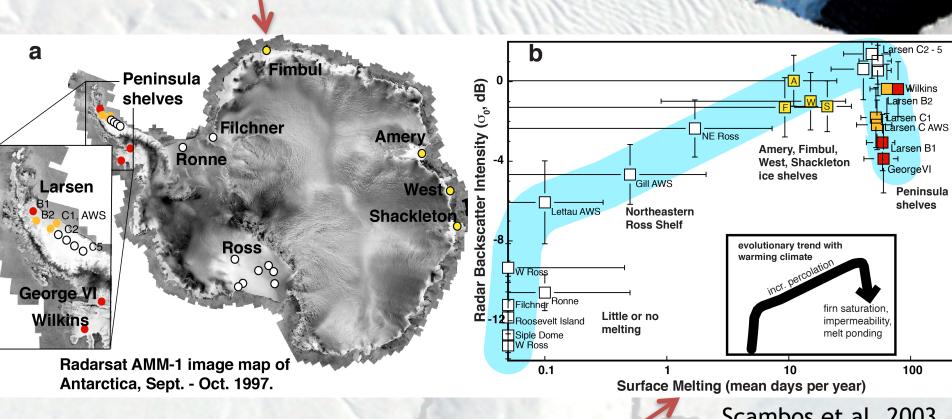
We want to take backscatter data like this



Scambos et al. 2003

Quick recap:

We want to take backscatter data like this



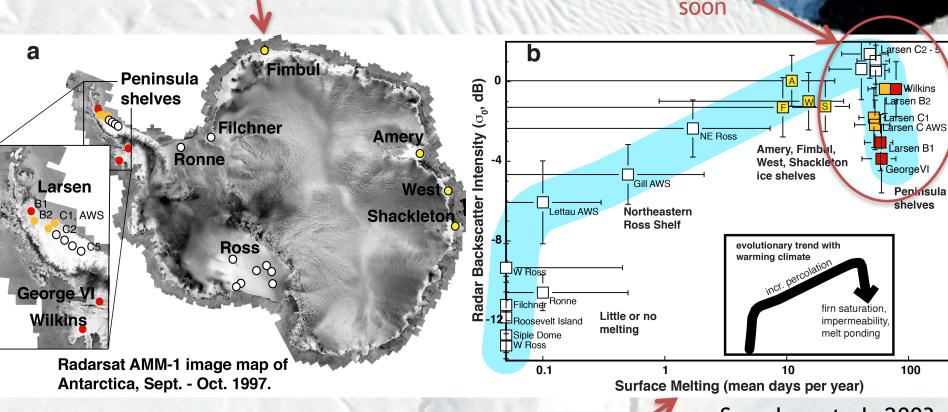
Scambos et al. 2003

And plot it with melt days data

Quick recap:

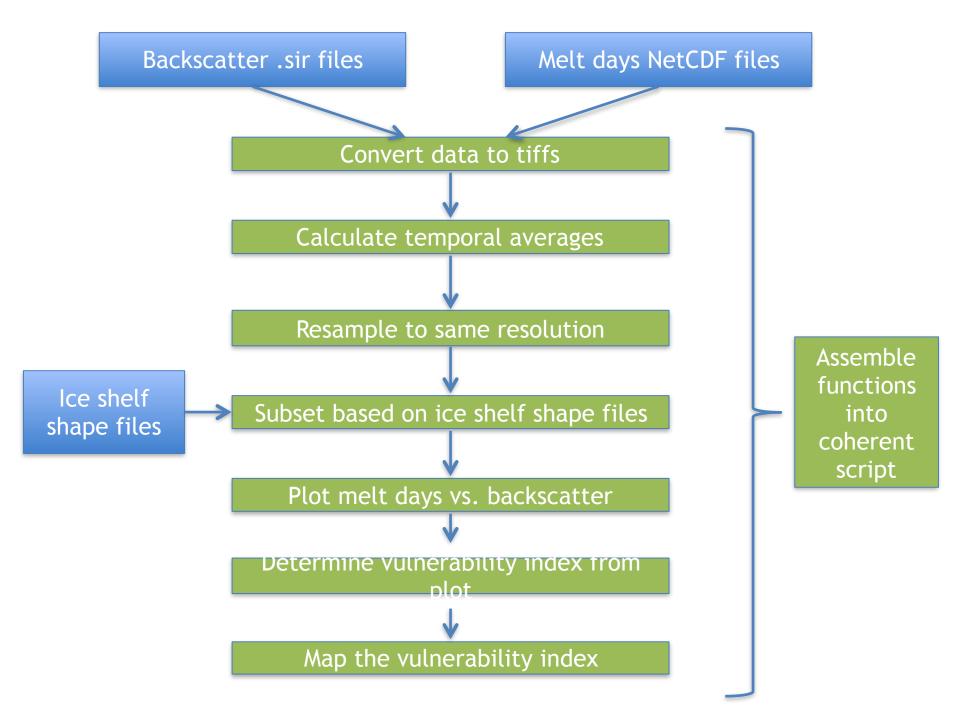
We want to take backscatter data like this

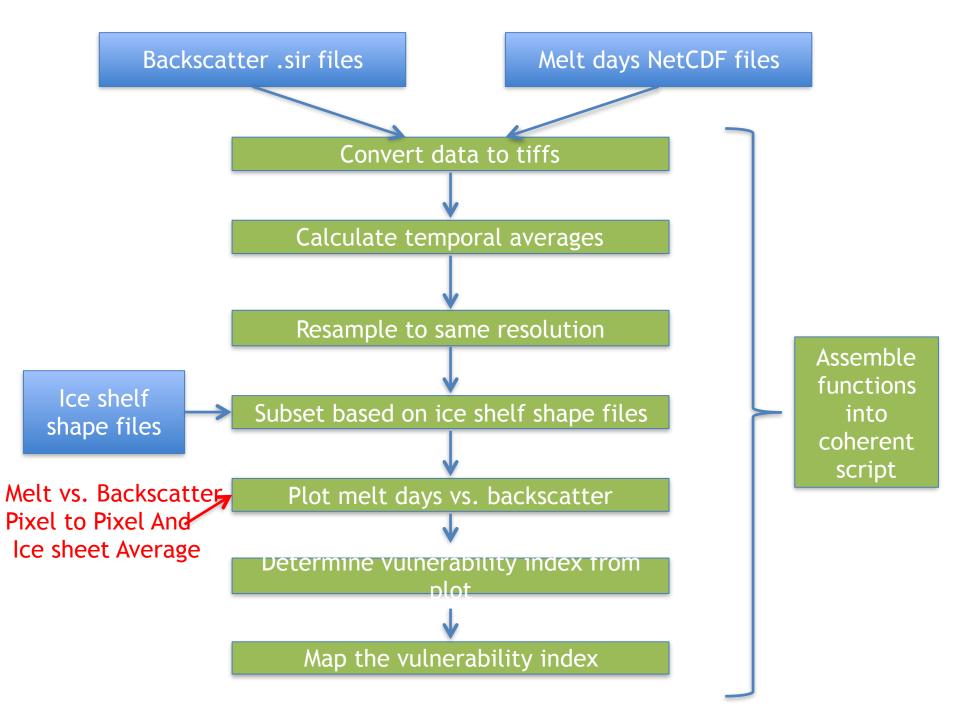
So we can find out which ice shelves might collapse

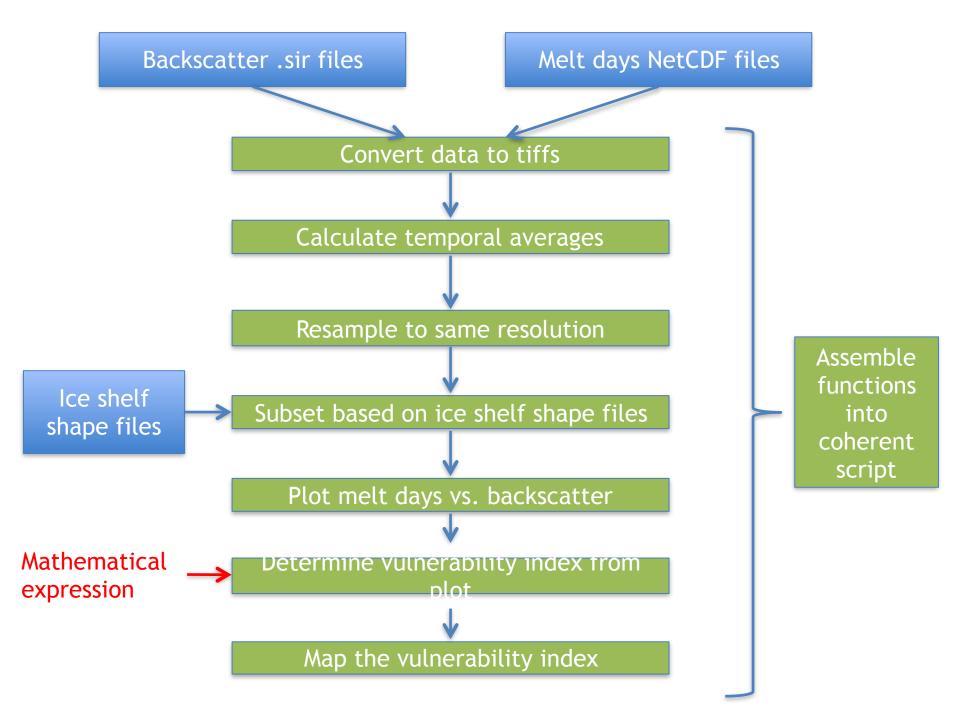


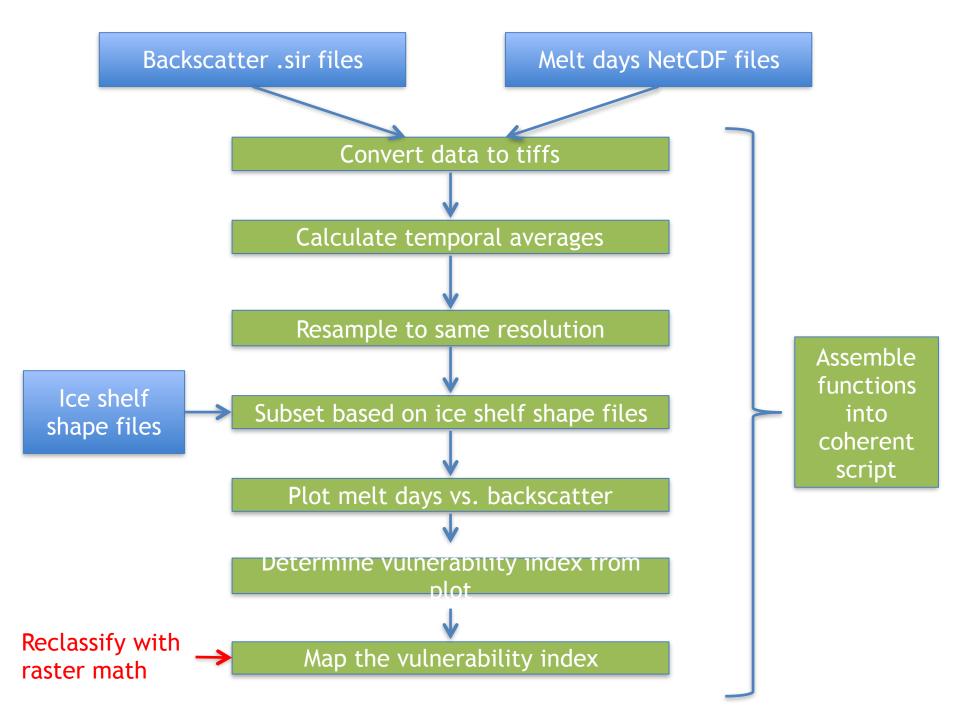
Scambos et al. 2003

And plot it with melt days data



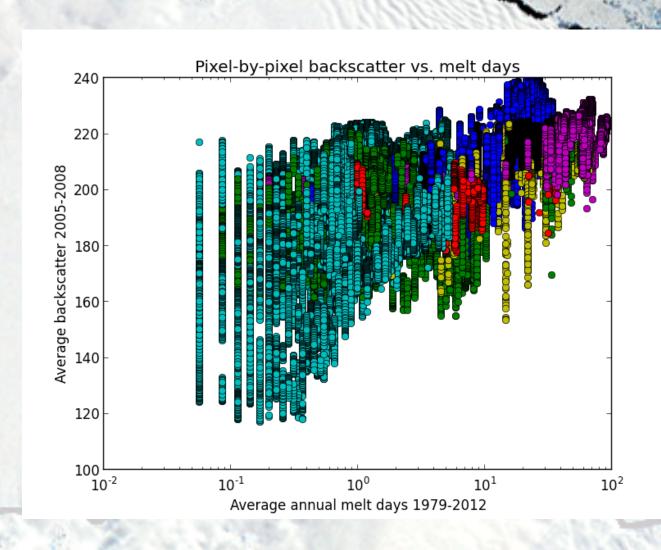




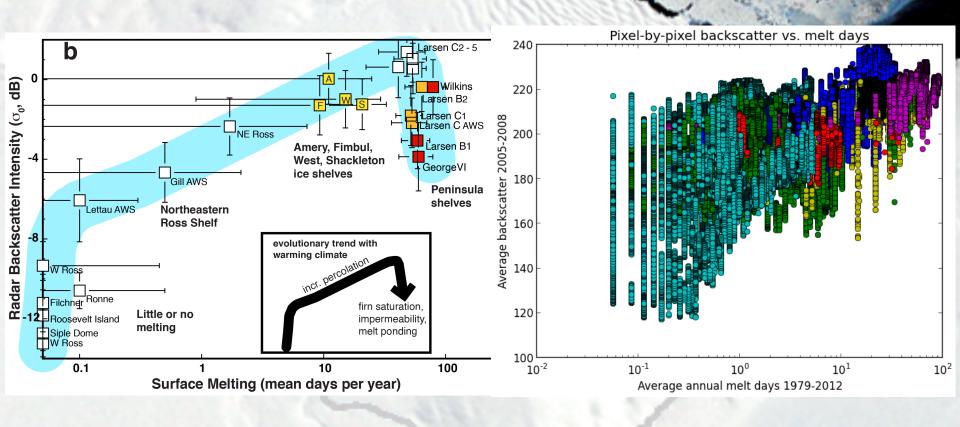


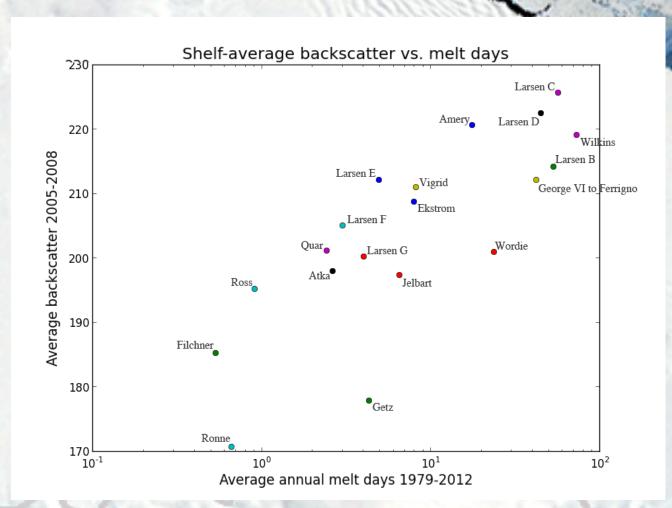


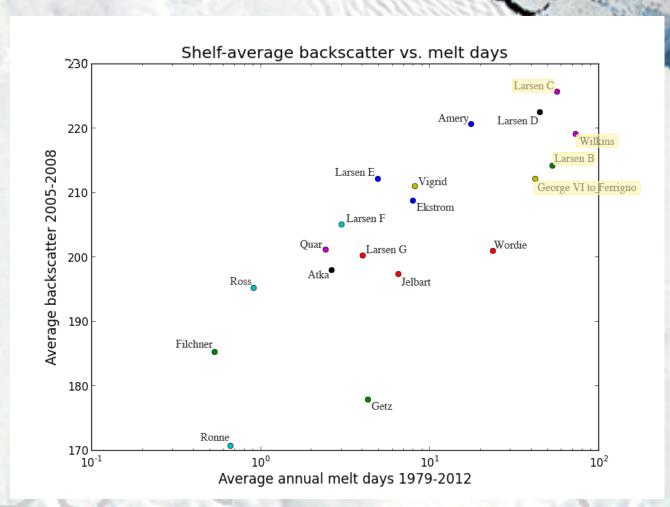
Results: pixel-by-pixel plot of melt days (1979-2012) vs. backscatter (2005-2008)

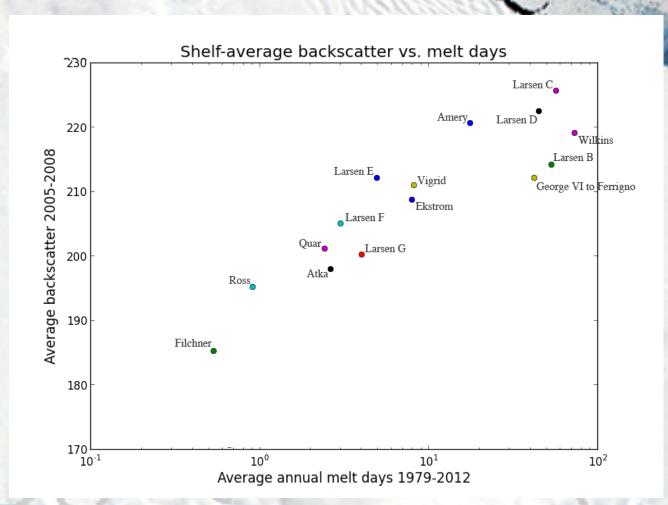


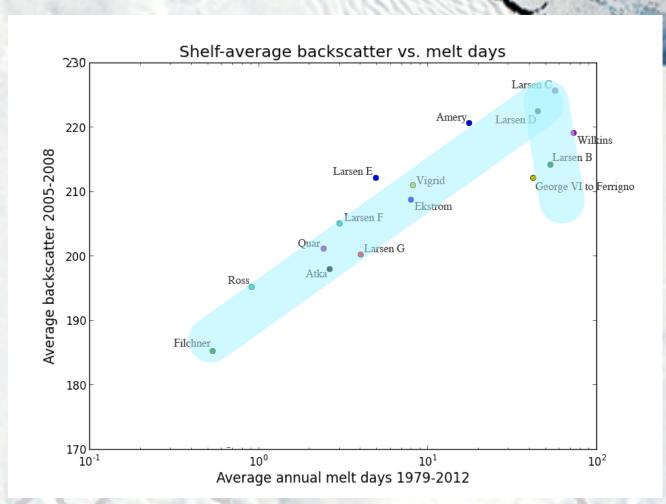
Compare with expected results



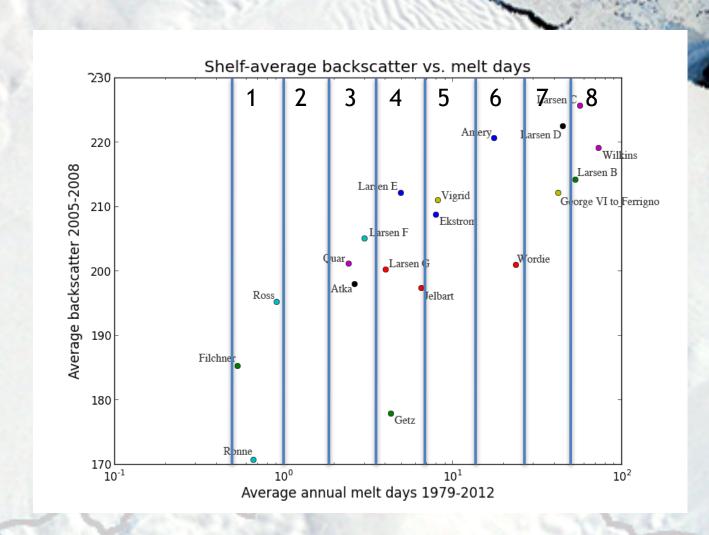




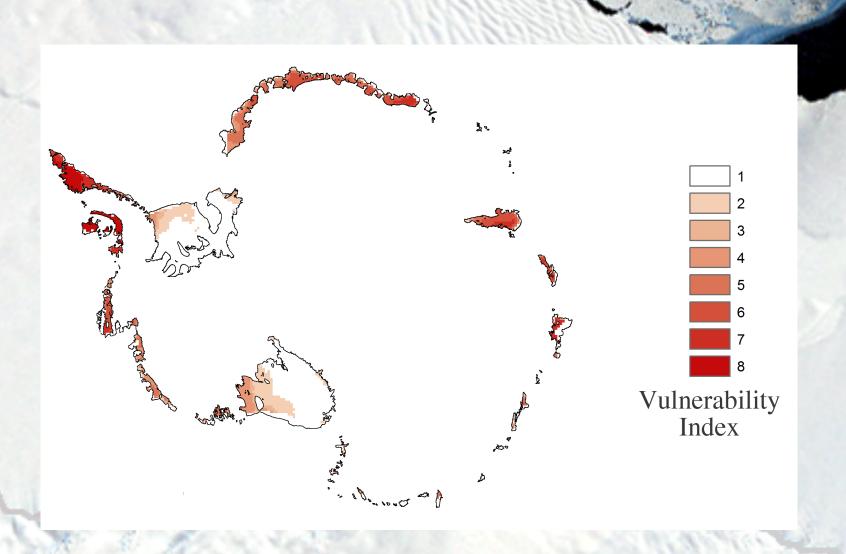




Prototype vulnerability index

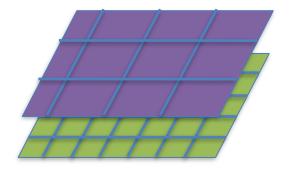


Results: mapping the prototype vulnerability index

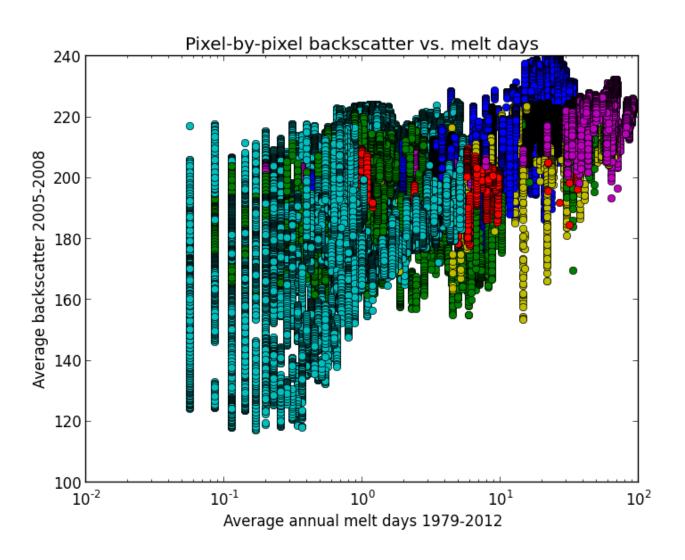


Limited by Resolution

- Backscatter in 2.25 Km Resolution
- Melt days in 40 km resolution



Uncertainty from large variability



Uncertainty from large variability

