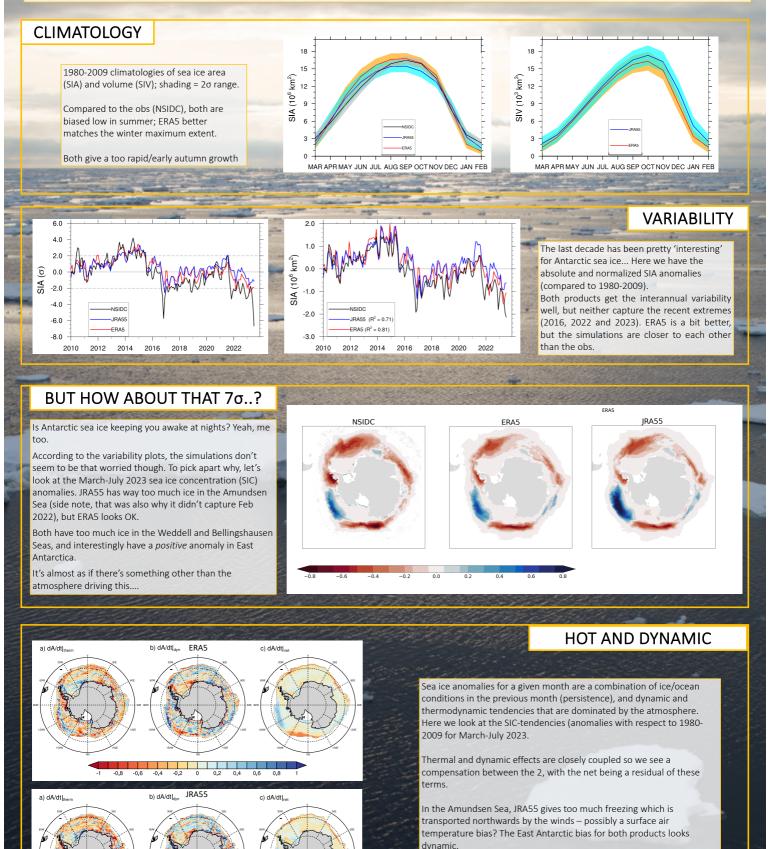
ICE COLD (RE)ANALYSIS – HOW DO ERA5/JRA55-do COMPARE IN THE FROZEN SOUTHERN OCEAN

Will Hobbs, (Andrew Kiss, Ryan Holmes)

Sea ice (and especially sea ice area) is strongly constrained by surface forcing in ocean-sea ice models. So what's the best forcing dataset? Here I'm comparing Antarctic sea ice in ACCESS-OM2-025 forced by JRA55 and ERA5 reanalyses, with a focus on recent extreme events.



Both products have reduced freeze in the Bellingshausen and Weddell Seas, compensated by dynamics. That compensation is a bit weird for the Bellingshausen, because there wasn't really any ice to move around

until June.

-0.6 -0.4 -0.2 0 0.2 0.4 0.6

0.8

-0.8