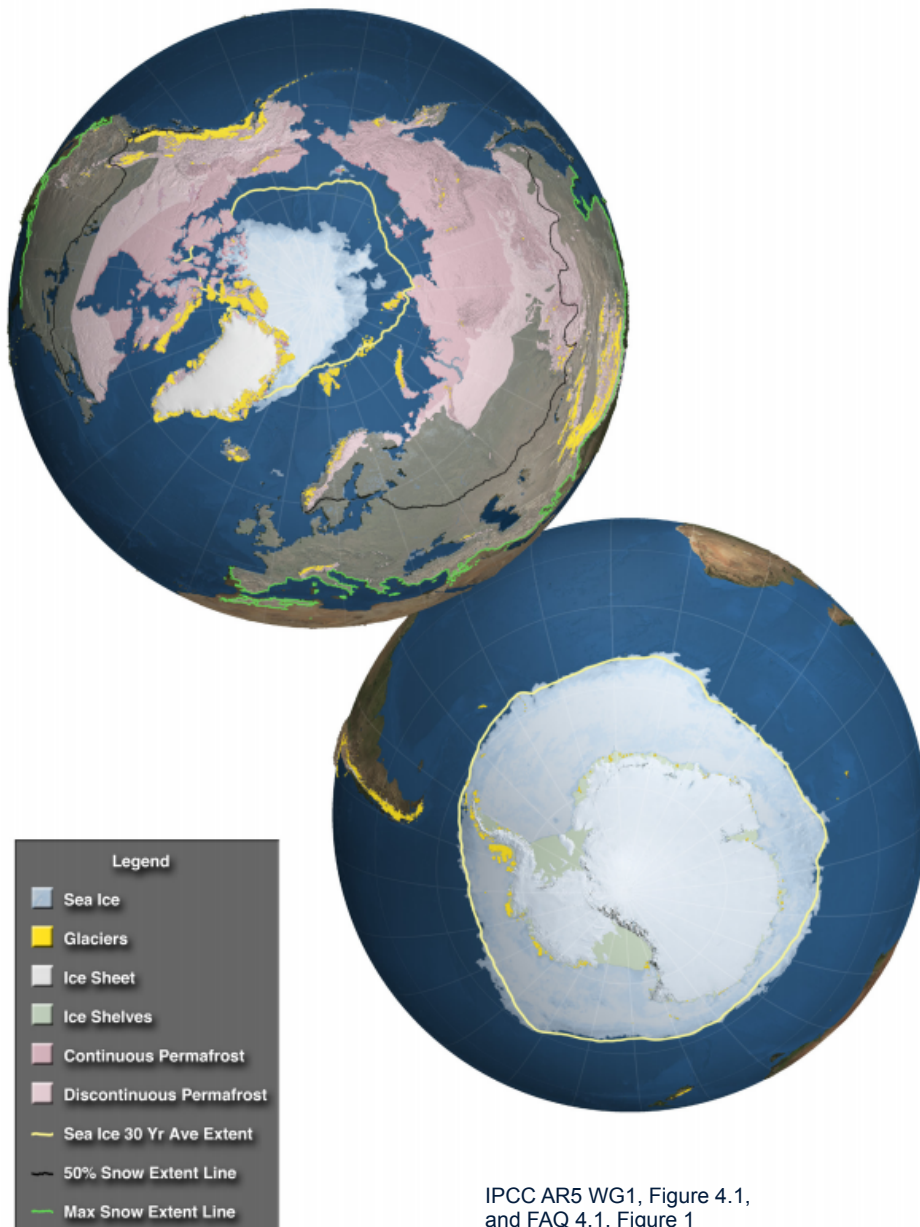
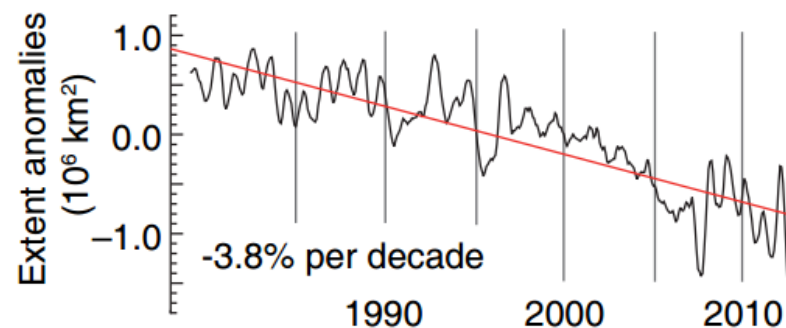


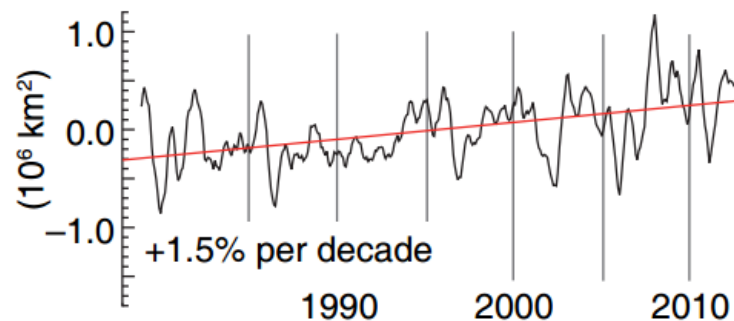
Q3: Contrasting Arctic sea ice loss with Antarctic sea ice increases



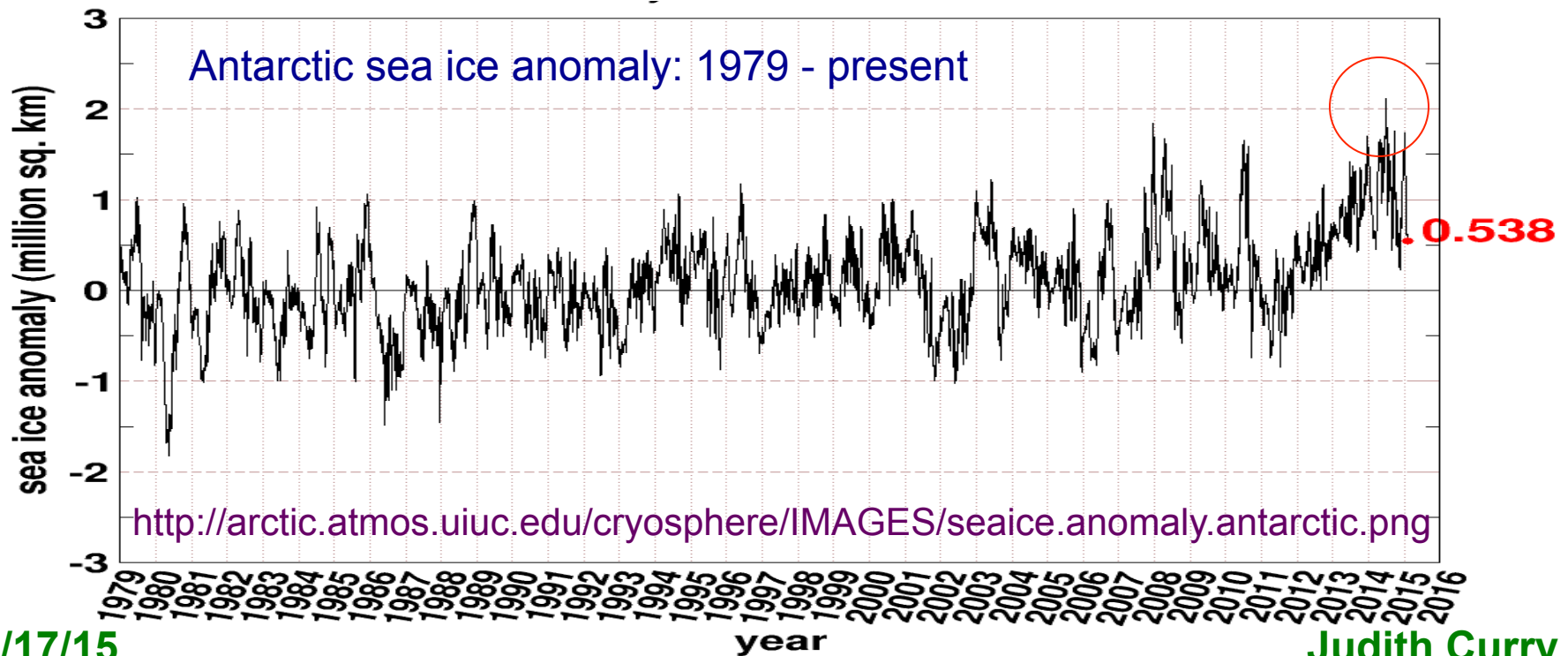
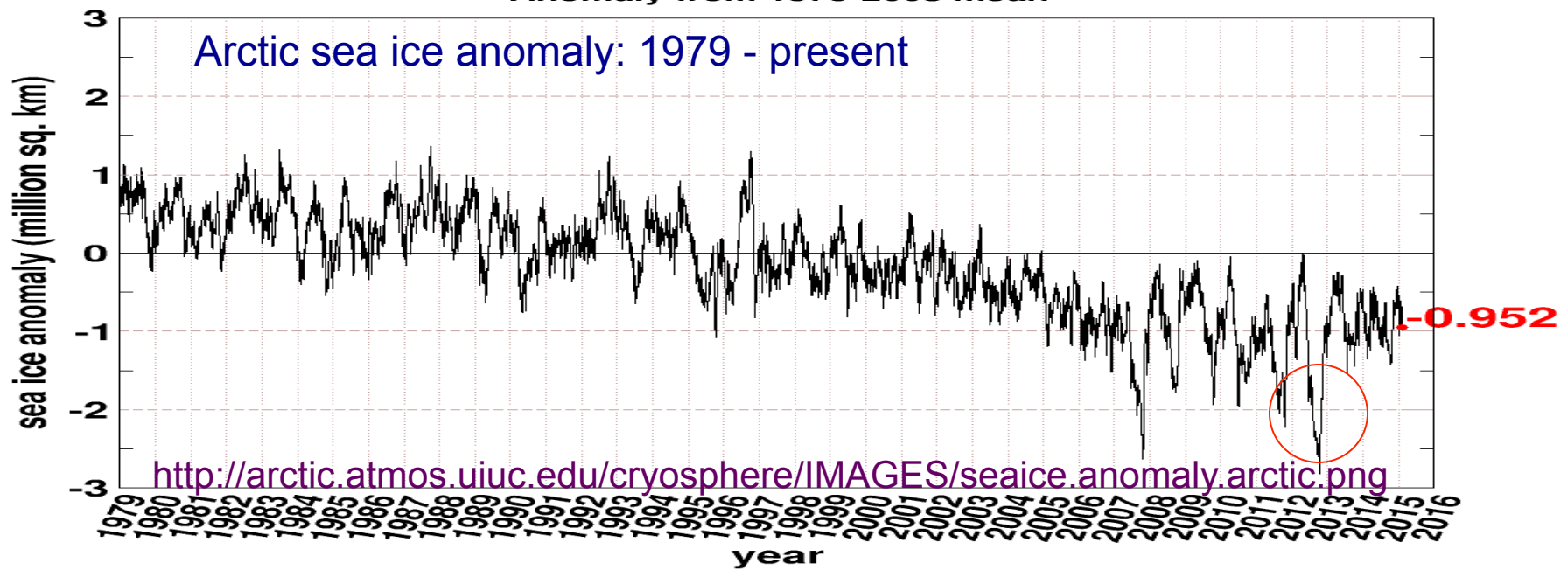
IPCC AR5 WG1, Figure 4.1,
and FAQ 4.1, Figure 1



ARCTIC: Geometry of the Arctic Ocean enables temperature to play a big role



ANTARCTIC: Physical processes more complicated; regional changes are in different directions



IPCC AR5 statements on causes of sea ice changes (Ch 10)

- “Anthropogenic [impacts] are very likely to have **contributed** to Arctic sea ice loss since 1979.”
- “There is **low confidence** in the scientific understanding of the observed increase in Antarctic sea ice extent since 1979, due to the incomplete and competing scientific explanations for the causes of change and low confidence in estimates of internal variability.”
- “Arctic temperature anomalies in the 1930s were apparently as large as those in the 1990s and 2000s. There is still considerable discussion of the ultimate causes of the warm temperature anomalies that occurred in the Arctic in the 1920s and 1930s.”