

Interdecadal Climate Variability over Antarctica and Linkages to the Tropics

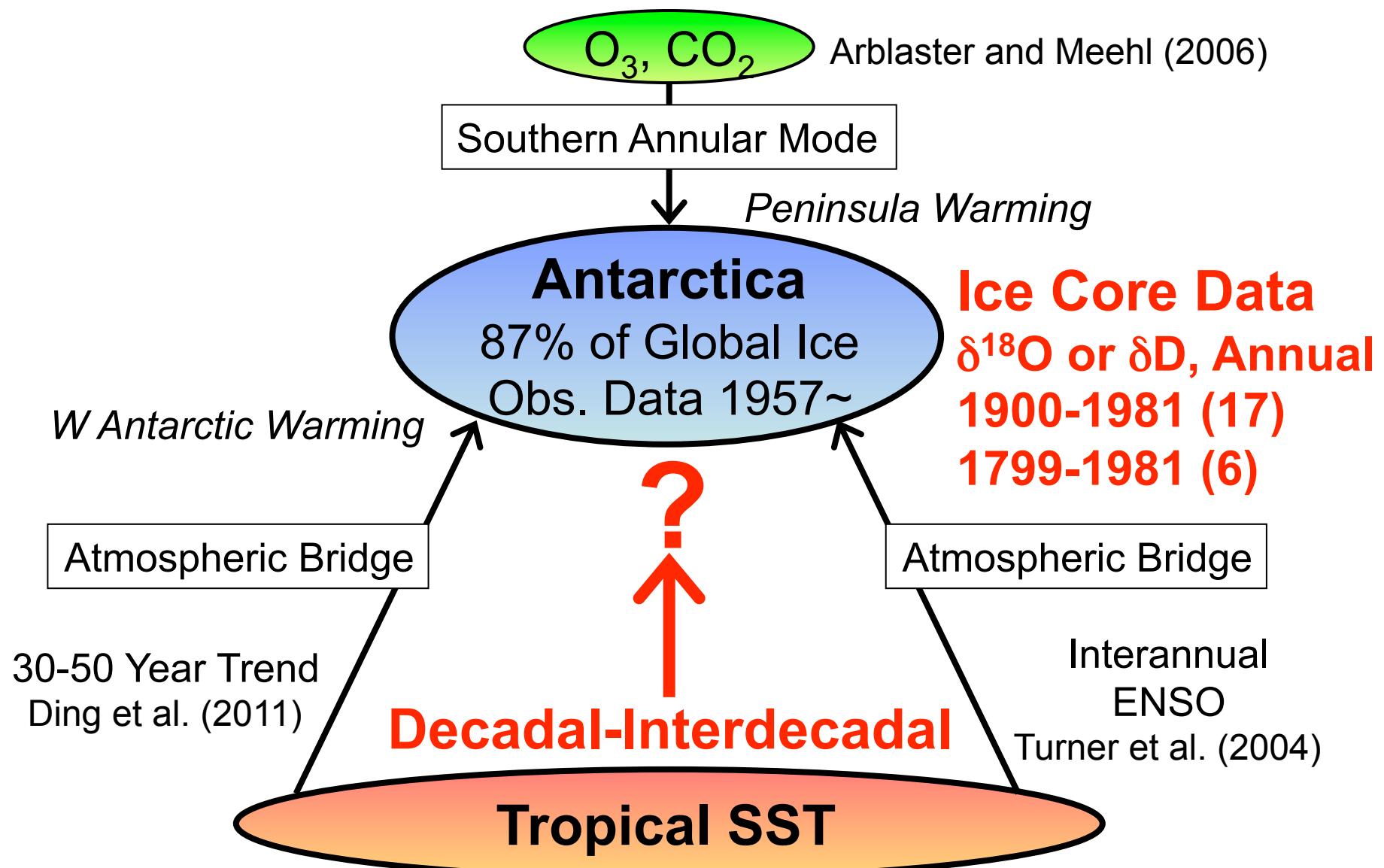
Yuko M. Okumura

University of Texas at Austin, Institute for Geophysics (UTIG)

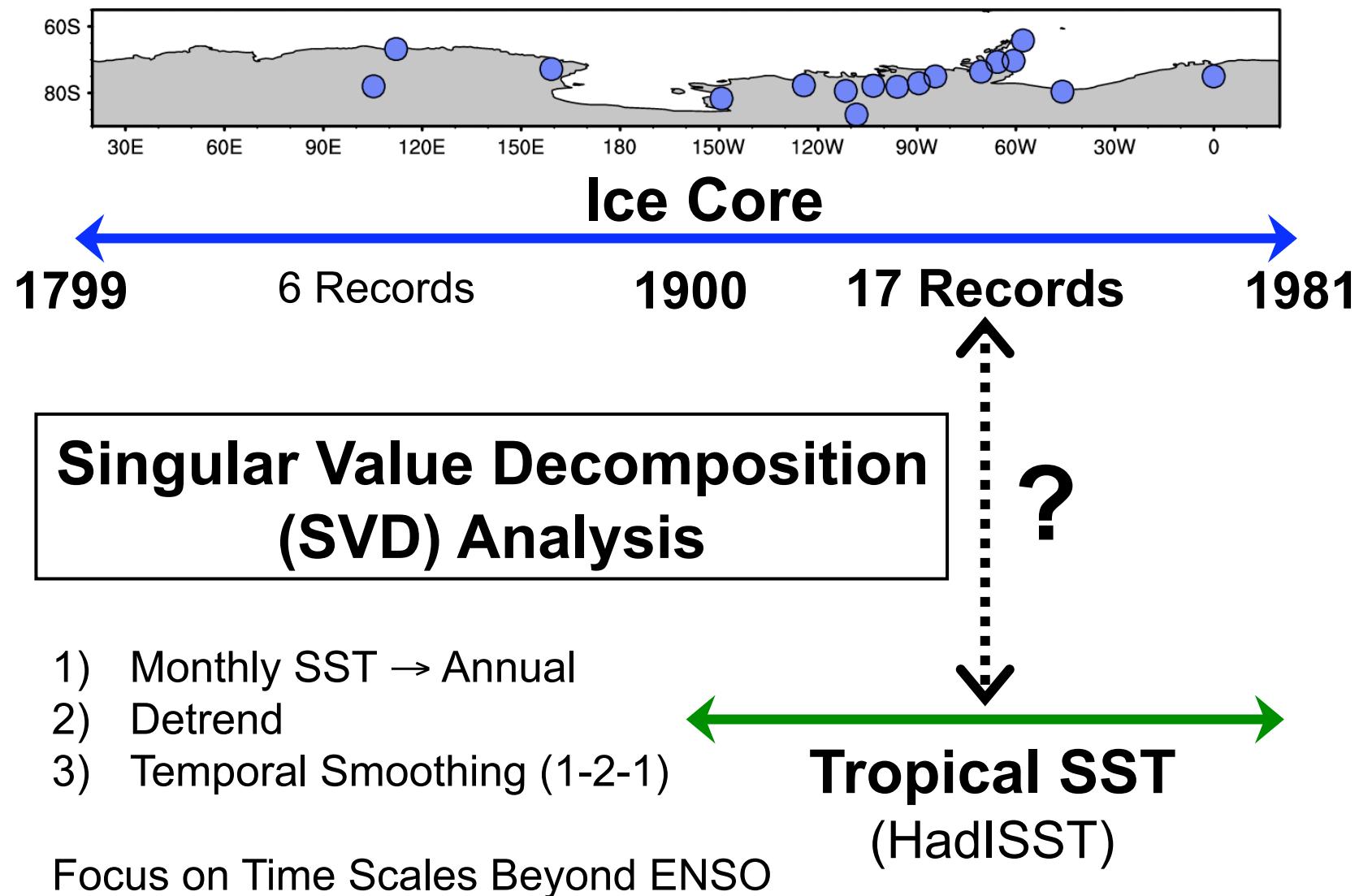


In collaboration with Clara Deser and David Schneider (NCAR)

Antarctic Climate Variability and Change



SVD Analysis of Ice Core and Tropical SST (1900-1981)

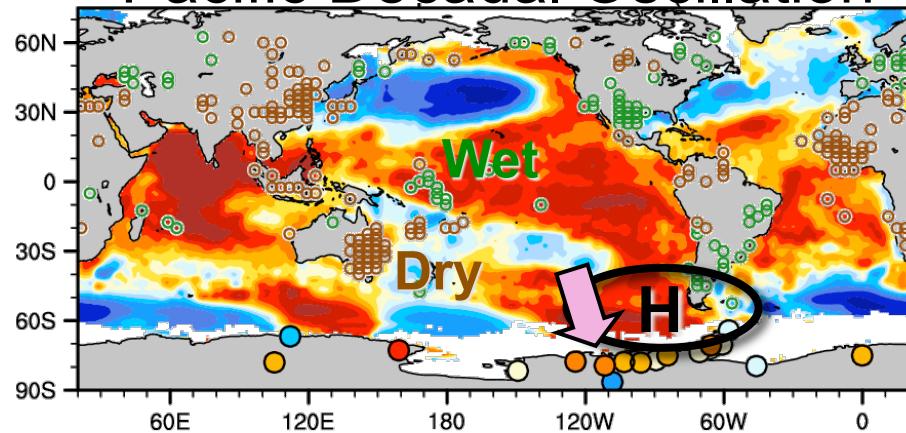


SVD Analysis of Ice Core and Tropical SST (1900-1981)

Correlation: Ice Core, Sea Surf Temp & Precipitation (Wet/Dry)

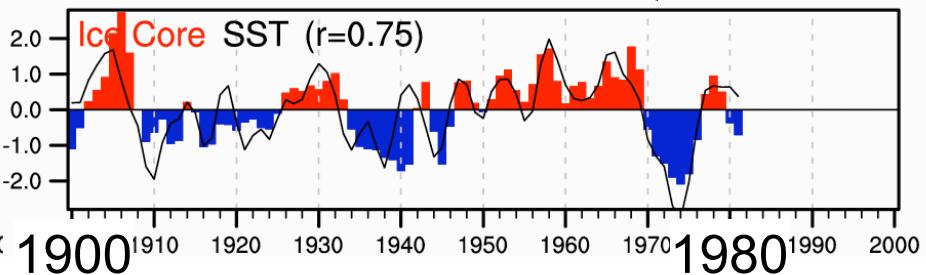
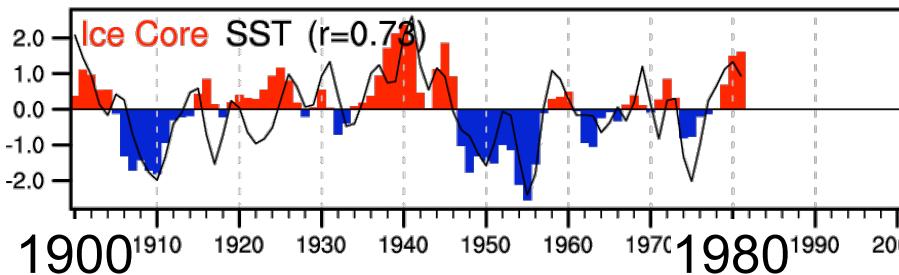
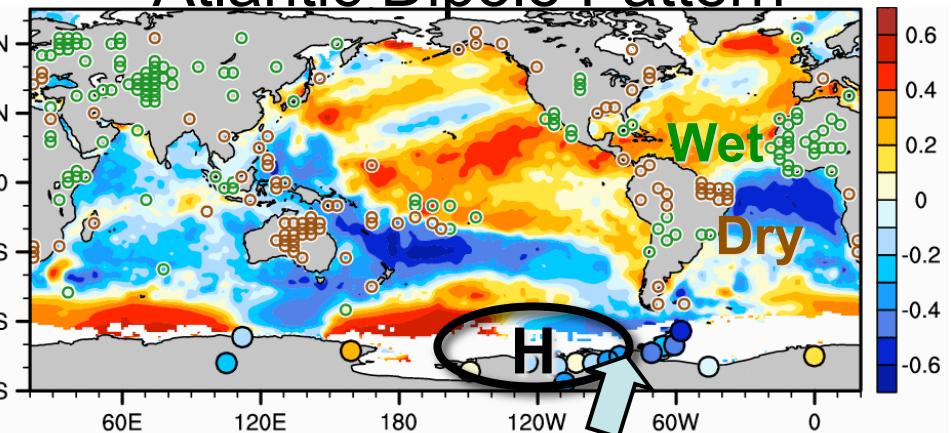
SVD Mode 1 (50%)

Pacific Decadal Oscillation

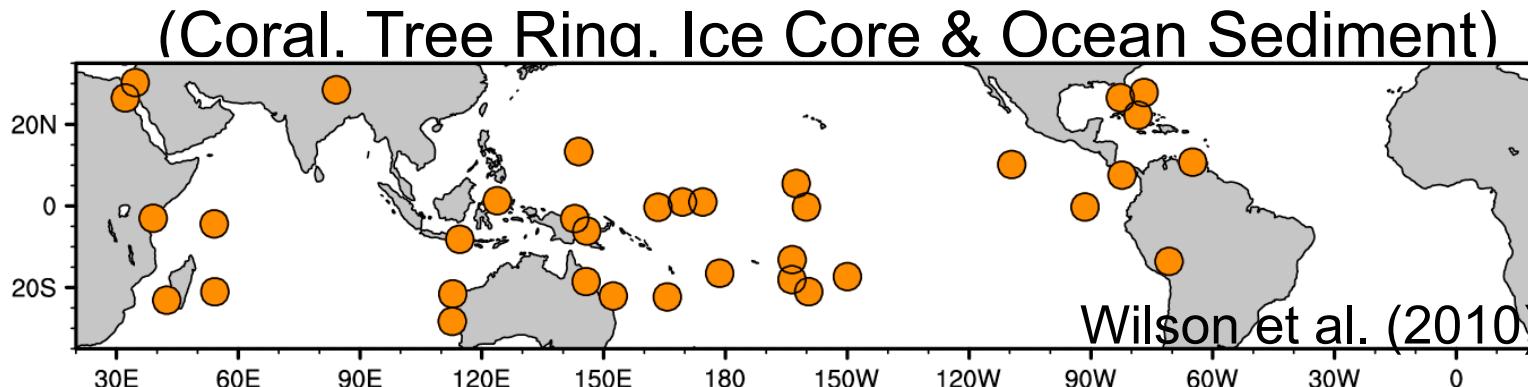
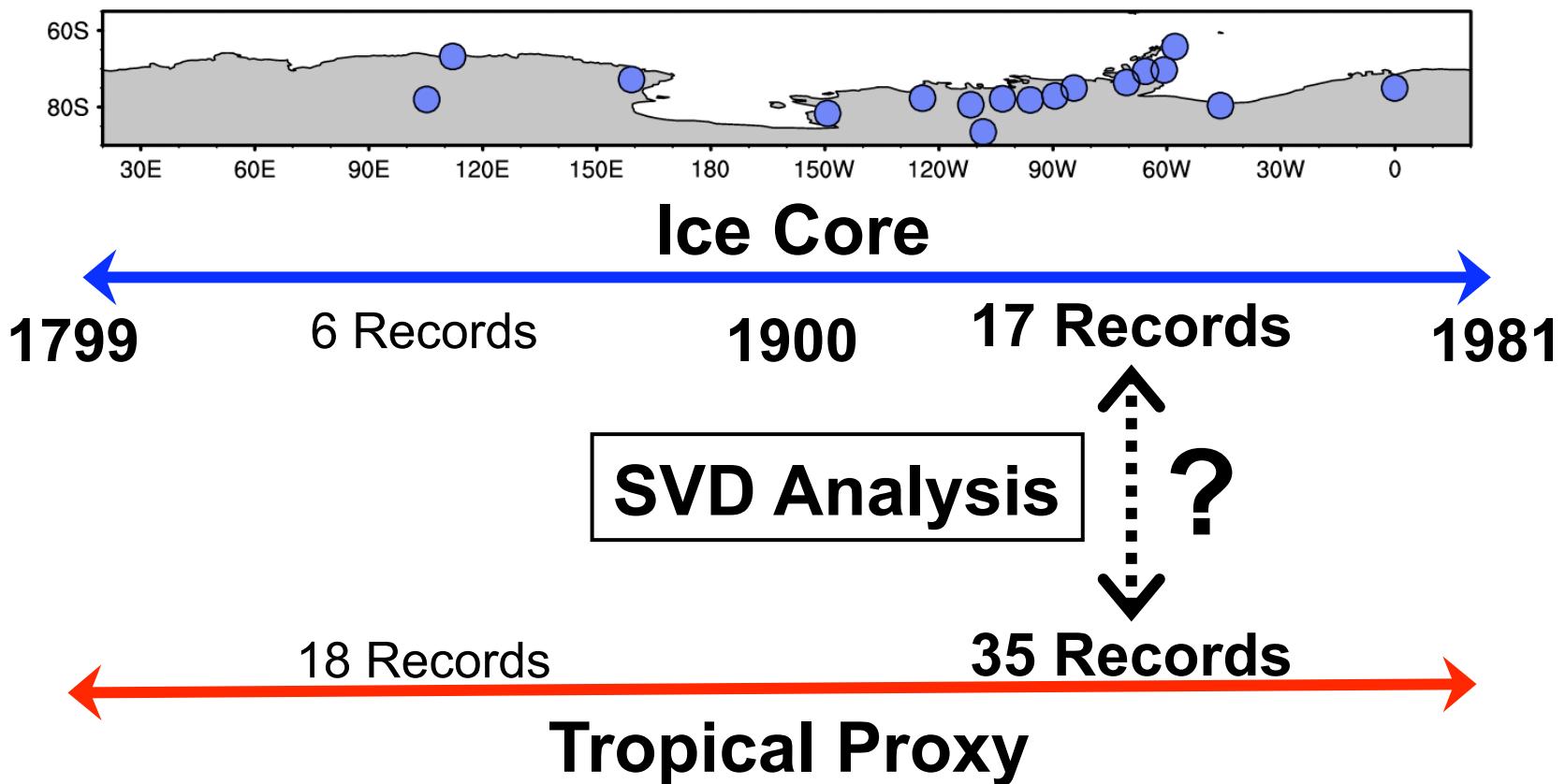


SVD Mode 2 (25%)

Atlantic Dipole Pattern



SVD Analysis of Ice Core and Tropical Proxy (1900-1981)

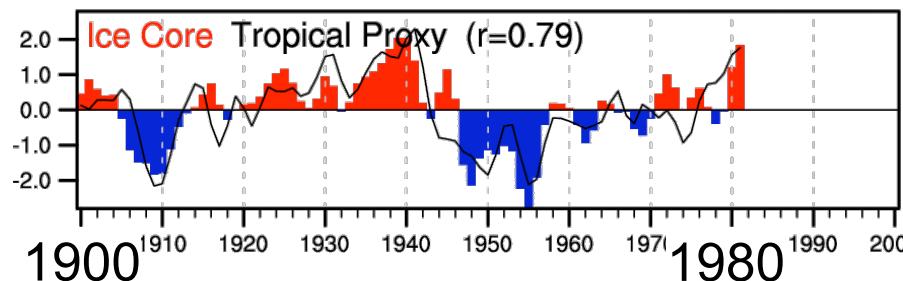
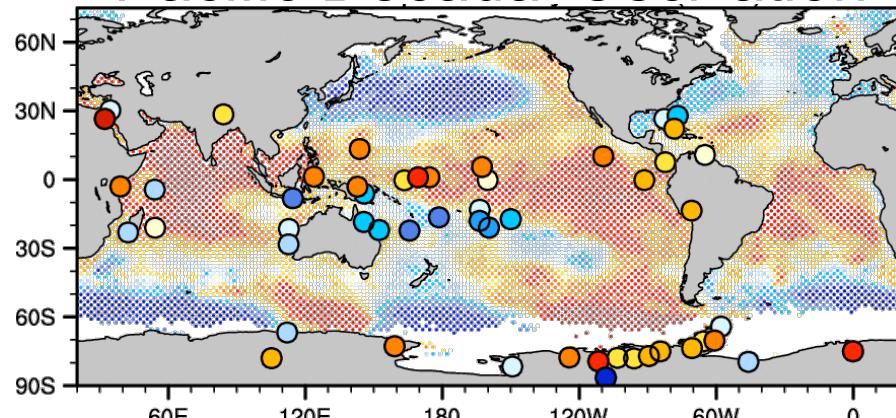


SVD Analysis of Ice Core and Tropical Proxy (1900-1981)

Correlation: Ice Core, Tropical Proxy & Sea Surface Temperature

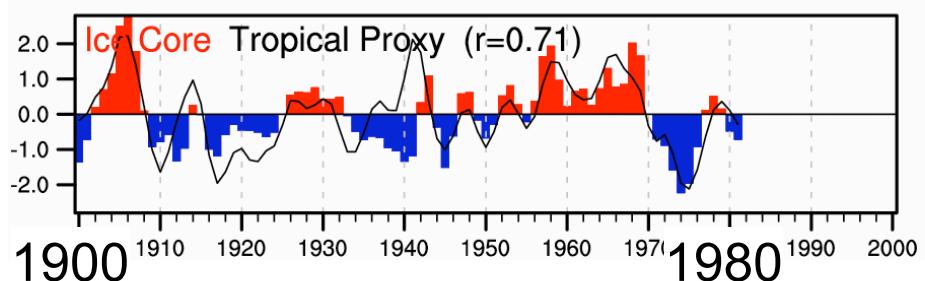
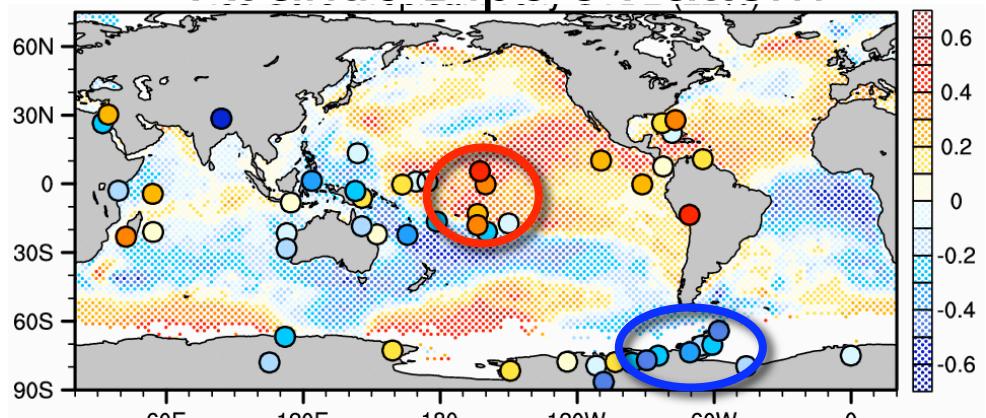
SVD Mode 1 (30%)

Pacific Decadal Oscillation

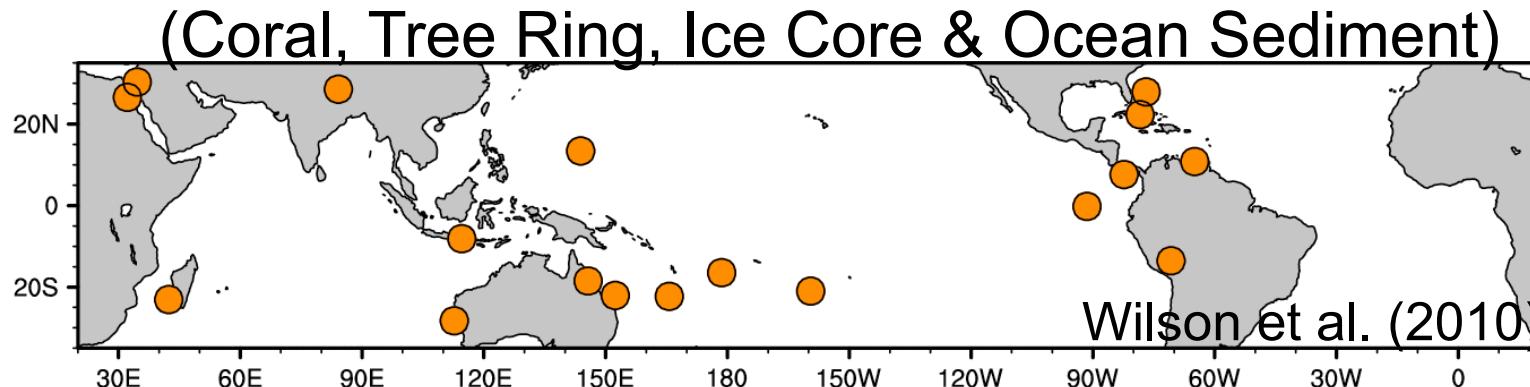
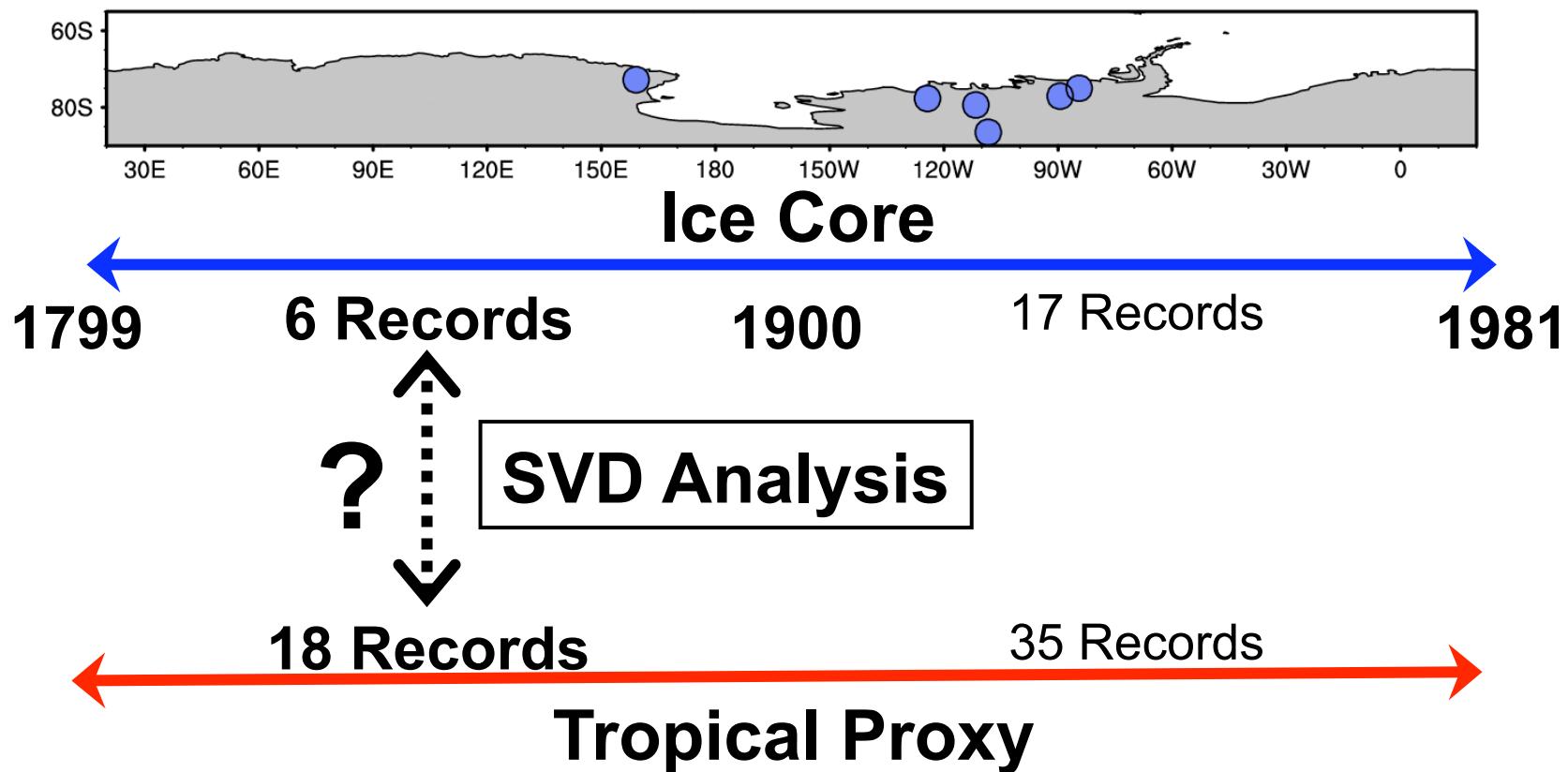


SVD Mode 2 (22%)

Atlantic Dipole Pattern



SVD Analysis of Ice Core and Tropical Proxy (1799-1981)

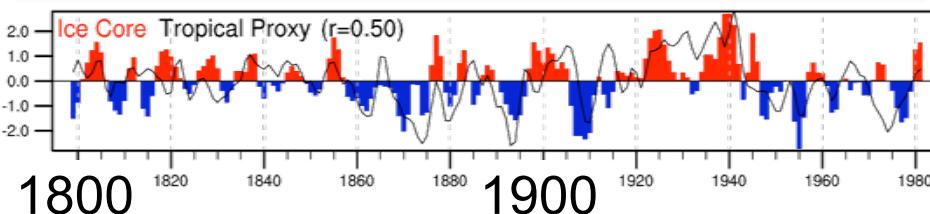
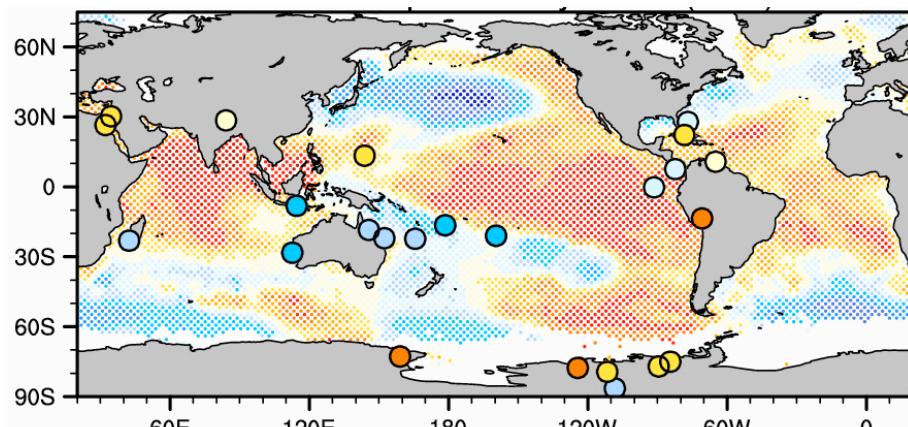


SVD Analysis of Ice Core and Tropical Proxy (1799-1981)

Correlation: Ice Core, Tropical Proxy & SST (1870-1981)

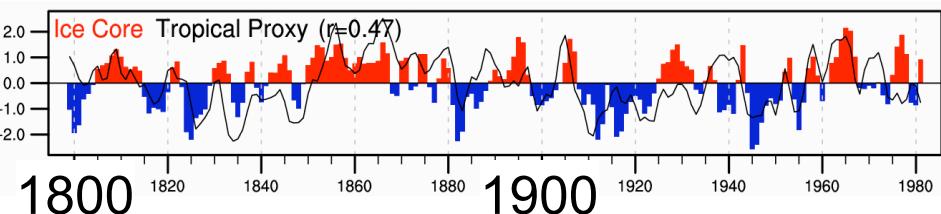
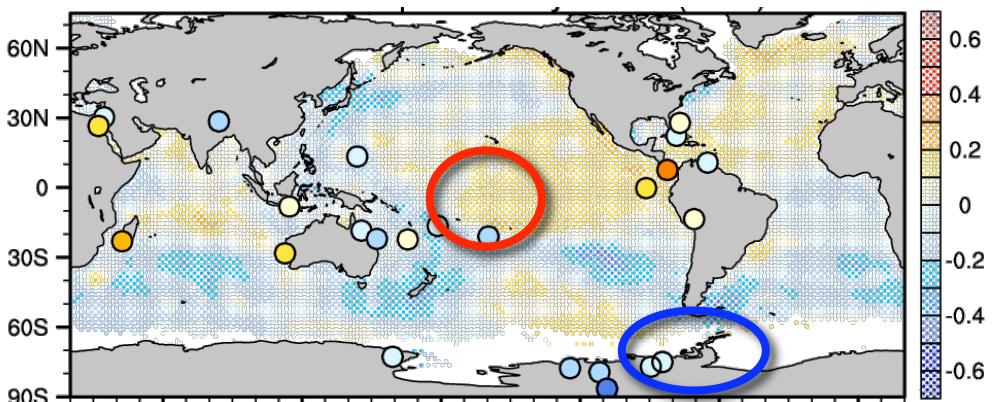
SVD Mode 1 (52%)

Pacific Decadal Oscillation



SVD Mode 2 (21%)

Atlantic Dipole Pattern??



Summary

