



Overview of methods used

Data Sources

Patterns we are investigating

Primary Methodologies

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WHAT DRIVES THE TRENDS AND VARIABILITY OF ANTARCTIC ICE?

Environmental Variables

ECMWF ERA5
ARGO data
Starion measurements

Antarctic Ice

NSIDC Sea Ice Conc.
GRACE Land Ice LWET
ECMWF ERA5

Climate Indices

IPO, DMI, Nino 3.4, SAM

Long Term Sea Ice

ECMWF ERA5
ARGO data
Starion measurements

Long Term Land Ice

NSIDC Sea Ice Conc.
GRACE Land Ice LWET
ECMWF ERA5

Short term variations in ice

Variability on the scale of
months or years

Visual Comparison

Plotting spatial Trends
Plotting mean timeseries

Correlations

Pearson correlations
spatial and temporal
distributions of variables

Linear Regression

Pearson correlations
spatial and temporal
distributions of variables

Space to add more stuff if needed

FINAL CONCLUSIONS