

A latitudinally-banded phytoplankton response to 21st century climate change in the Southern Ocean across the CMIP5 model suite

Main text figures

Figure 1: All-model mean 100-year changes

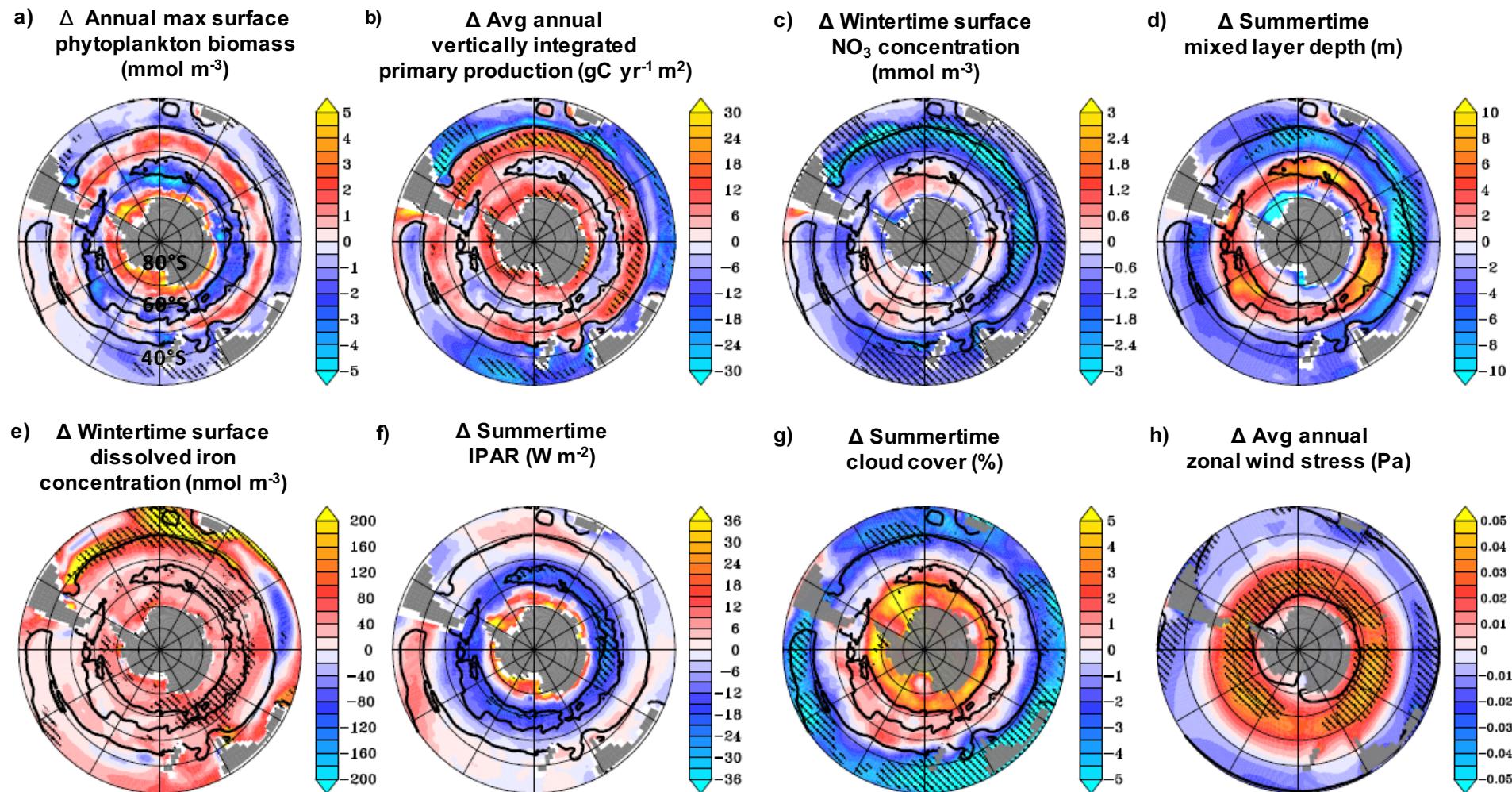


Figure 2: Drivers of phytoplankton biomass on multiple timescales

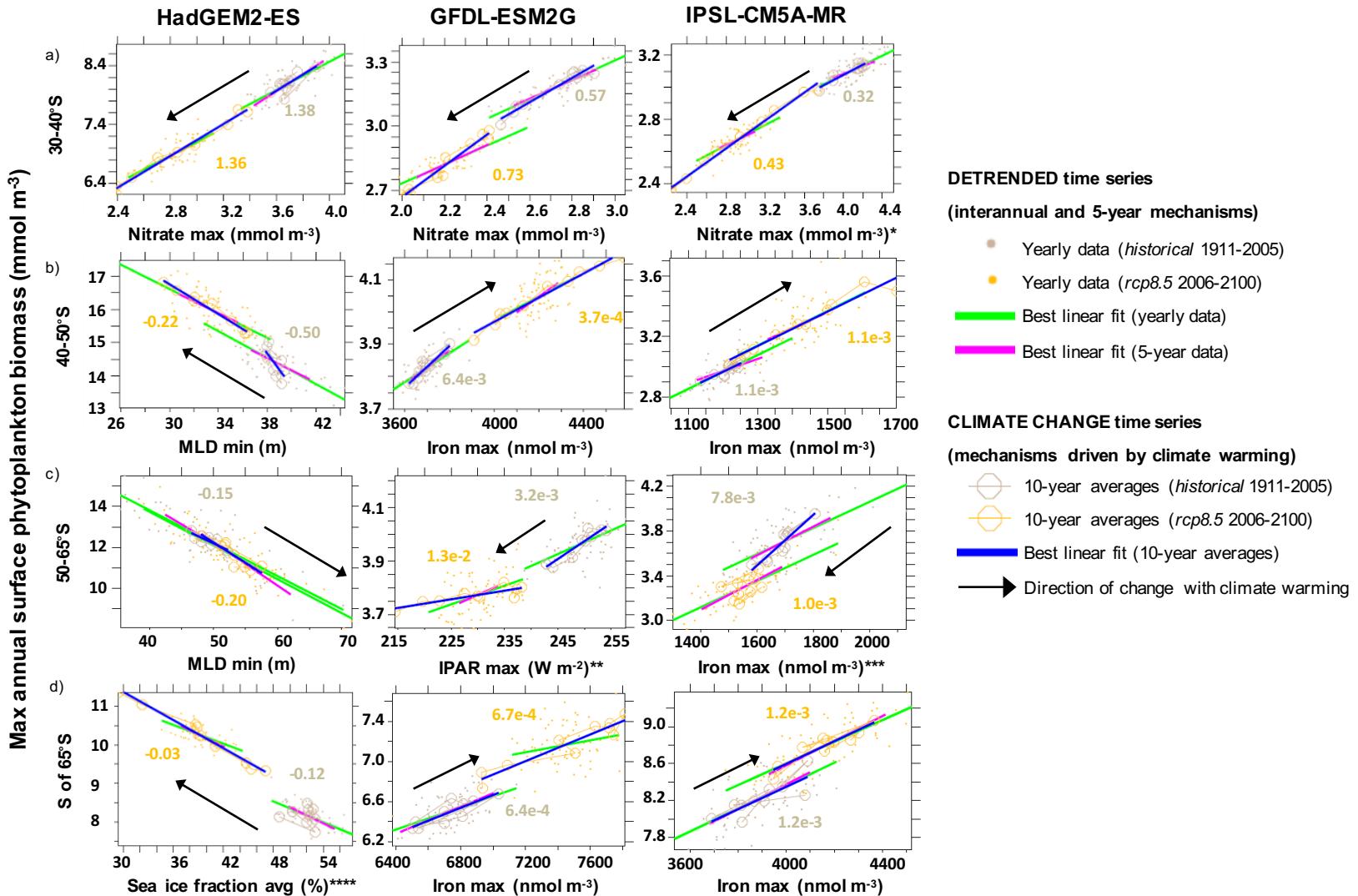


Figure 3: Drivers of phytoplankton biomass on 100-year timescale

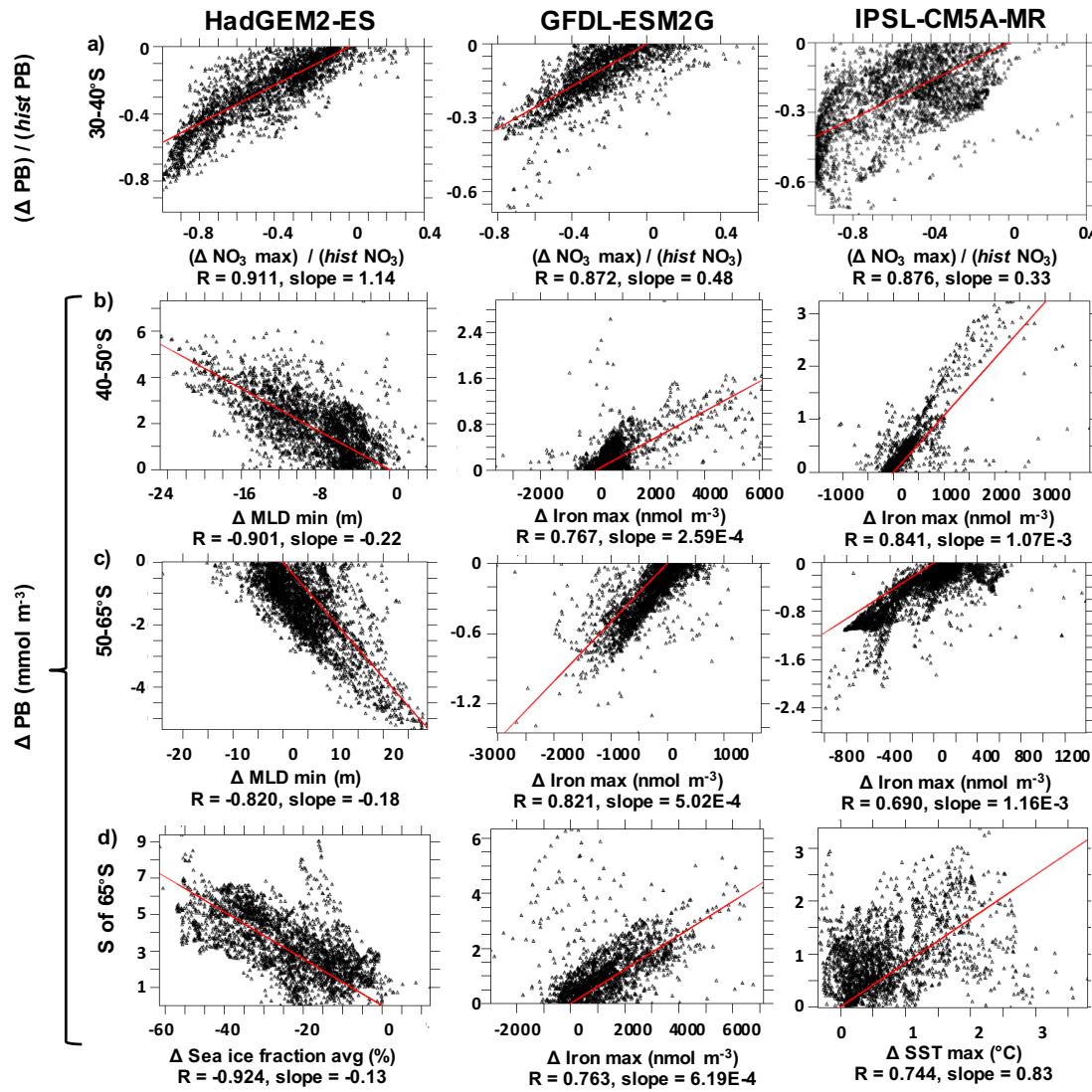
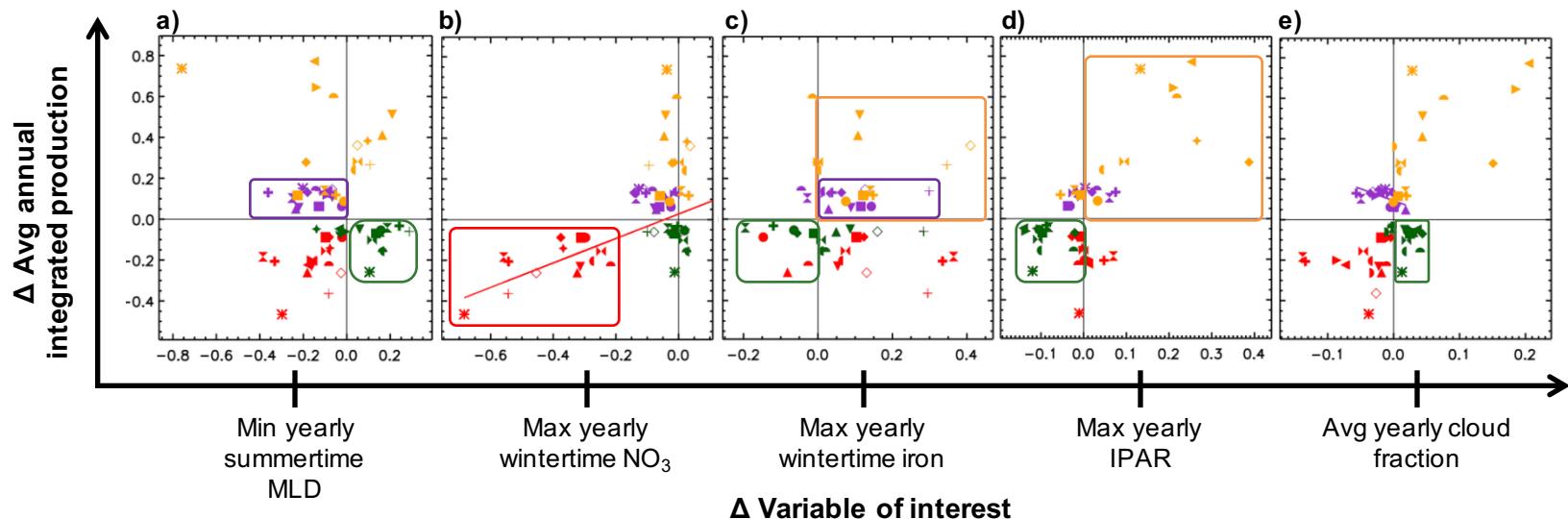


Figure 4: Drivers of 100-year phytoplankton productivity changes across CMIP5 models



Model symbols:

- * CanESM2
- ◆ CESM1-BGC
- GFDL-ESM2G
- GFDL-ESM2M
- ▲ HadGEM2-CC
- ▼ HadGEM2-ES
- MIROC-ESM
- ◀ MIROC-ESM-CHEM
- ✗ IPSL-CM5A-LR
- + IPSL-CM5A-MR
- MPI-ESM-LR
- ◀ MPI-ESM-MR

Masked latitudinal band colors:

- 30-40°S where phytomax decrease
- 40-50°S where phytomax increase
- 50-65°S where phytomax decrease
- S of 65°S where phytomax increase

Figure 5: Summary of spatial intermodel agreement

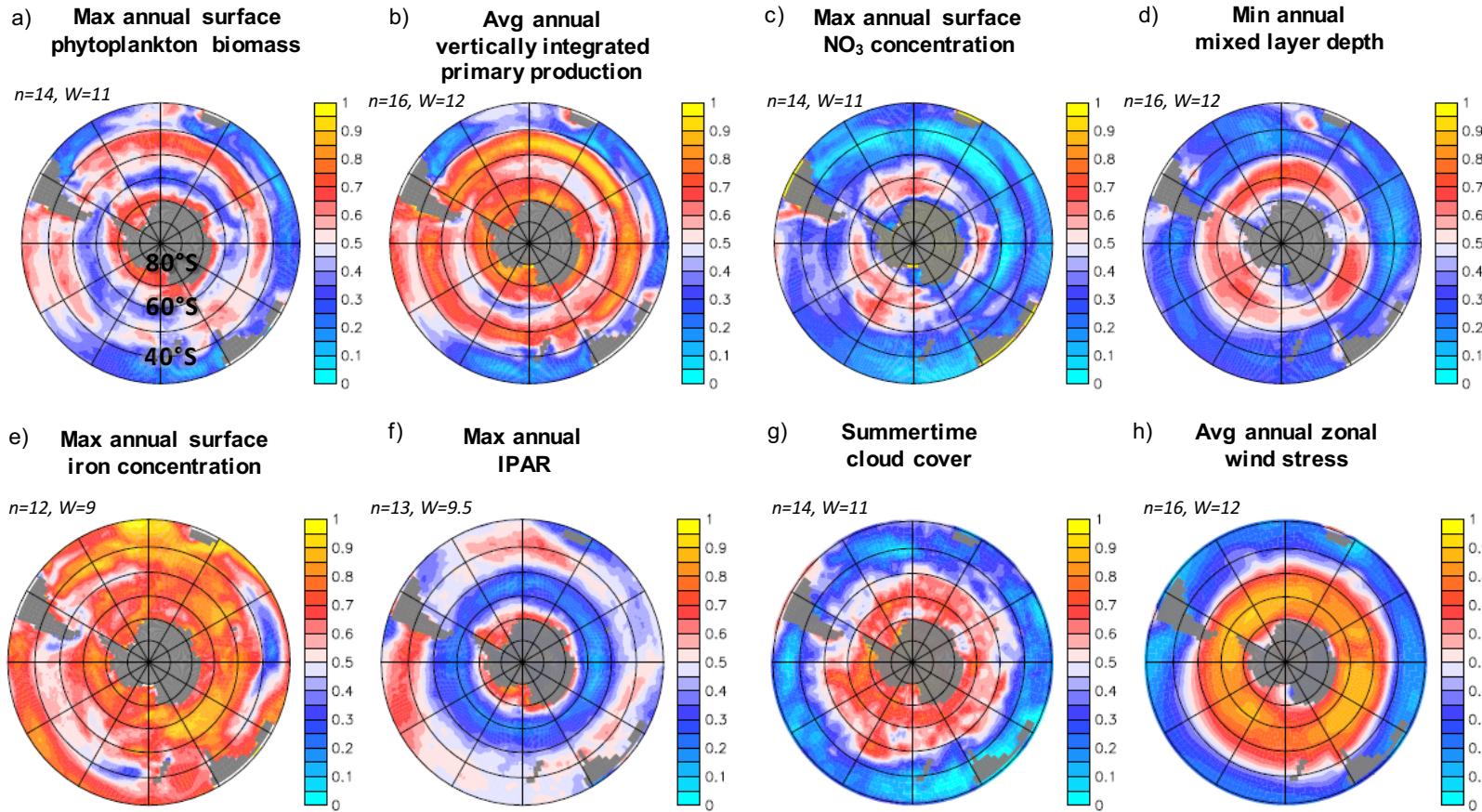


Figure 6: Summary of drivers and trends across latitudinal bands

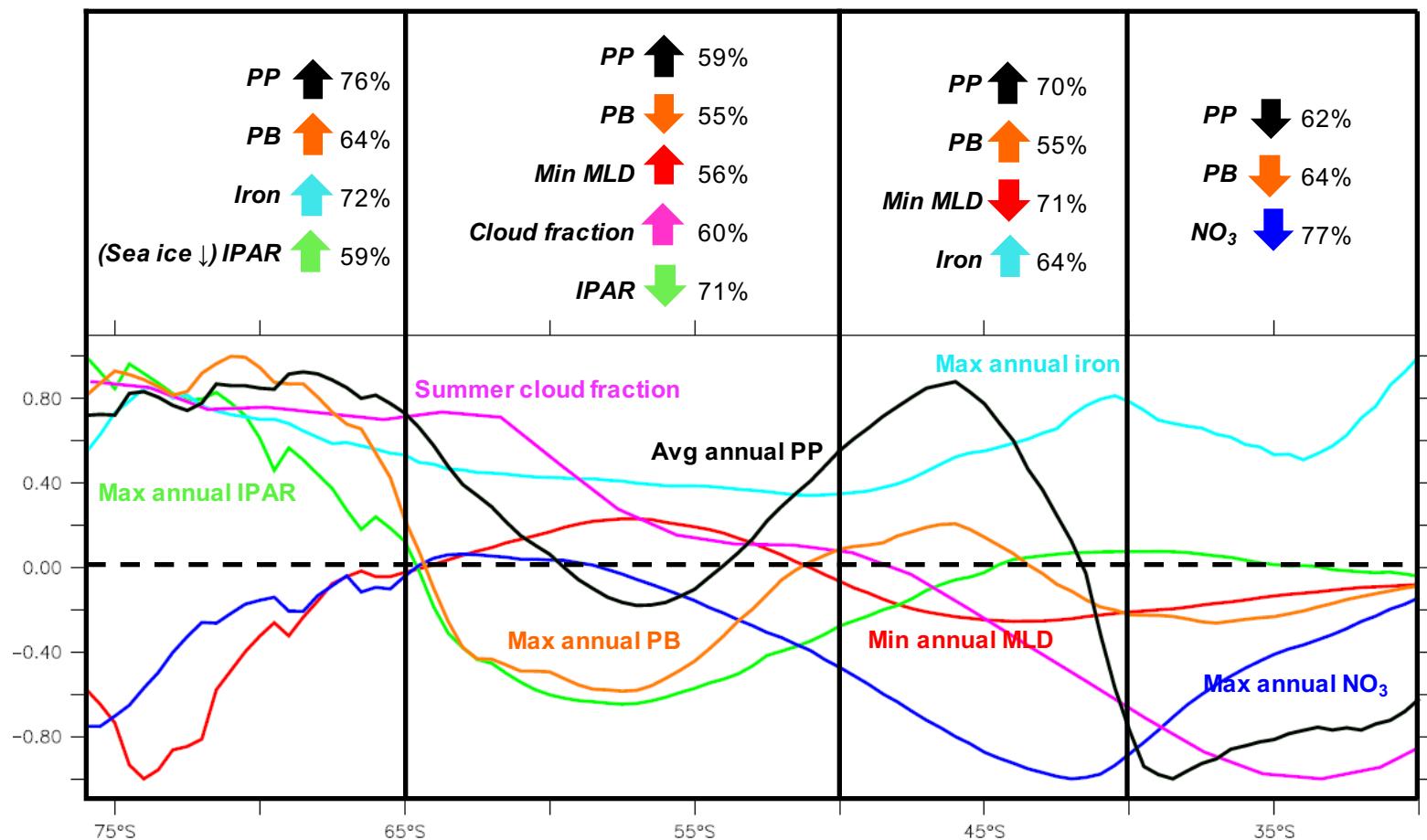


Figure 7: Observed phytoplankton trends and variability

