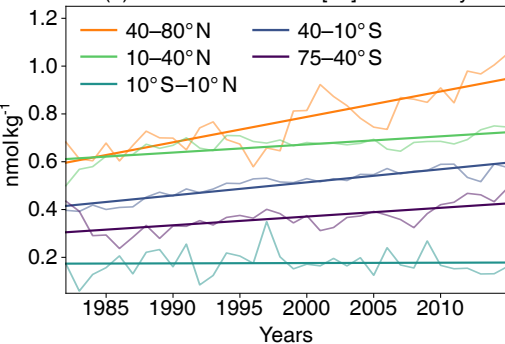
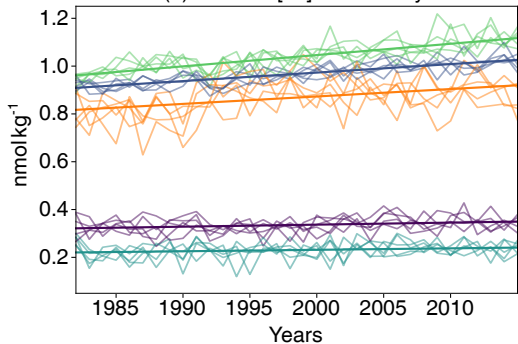


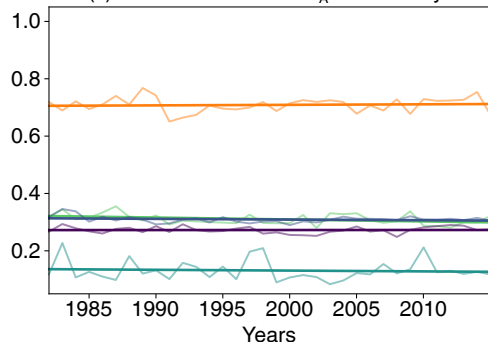
(a) Observation-based  $[H^+]$  seasonality



(b) ESM2M  $[H^+]$  seasonality



(c) Observation-based  $\Omega_A$  seasonality



(d) ESM2M  $\Omega_A$  seasonality

