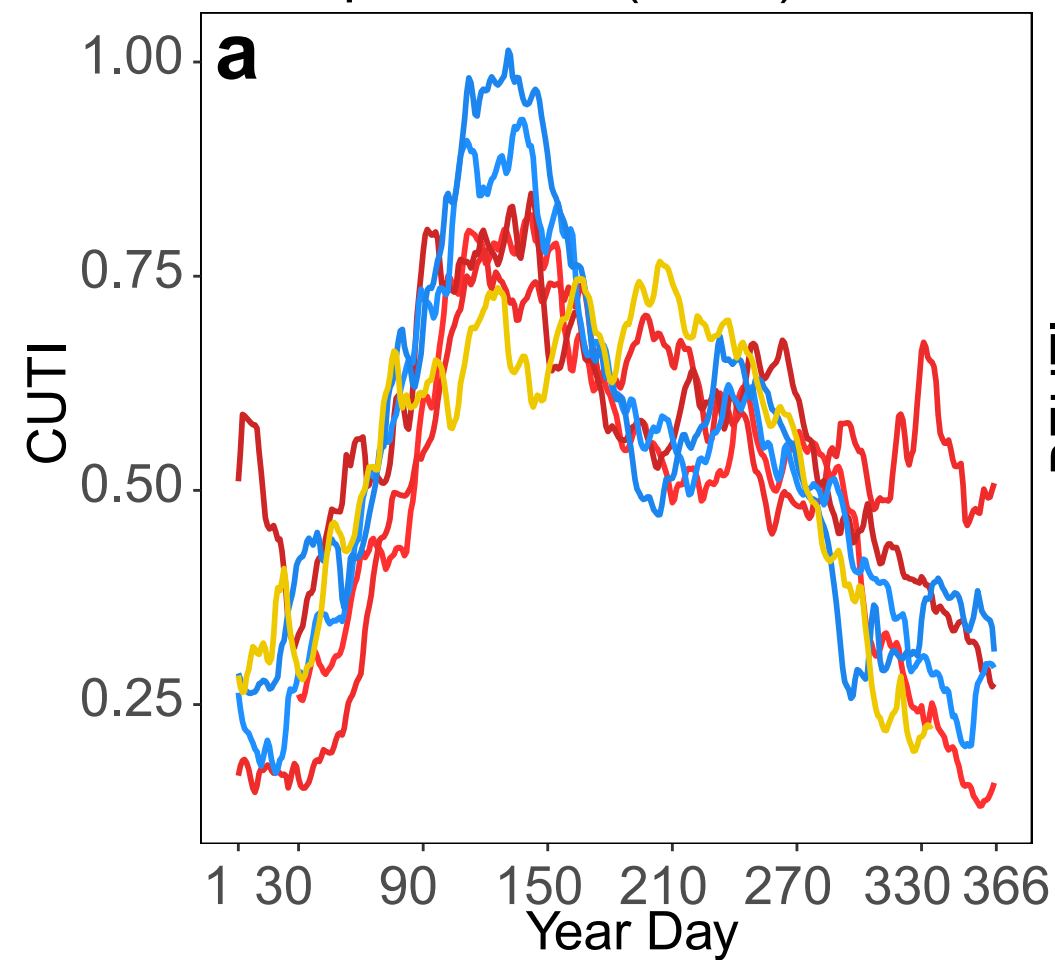
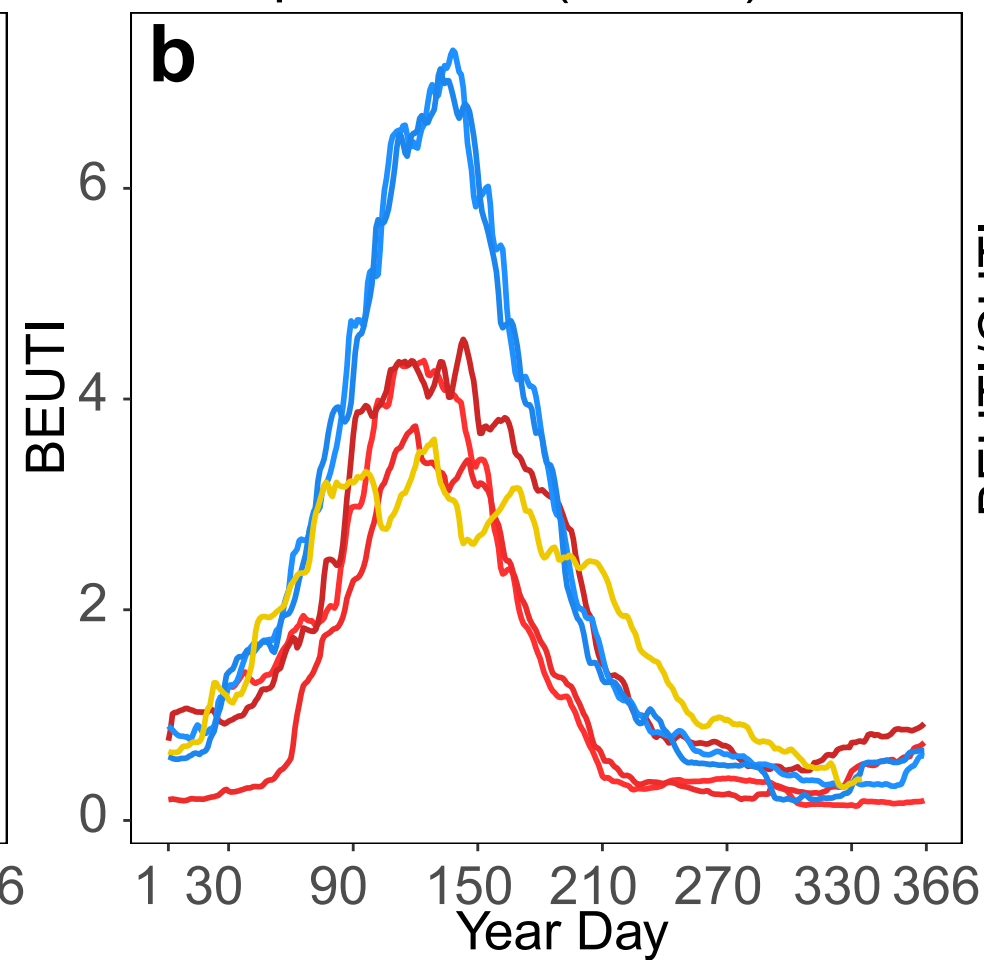


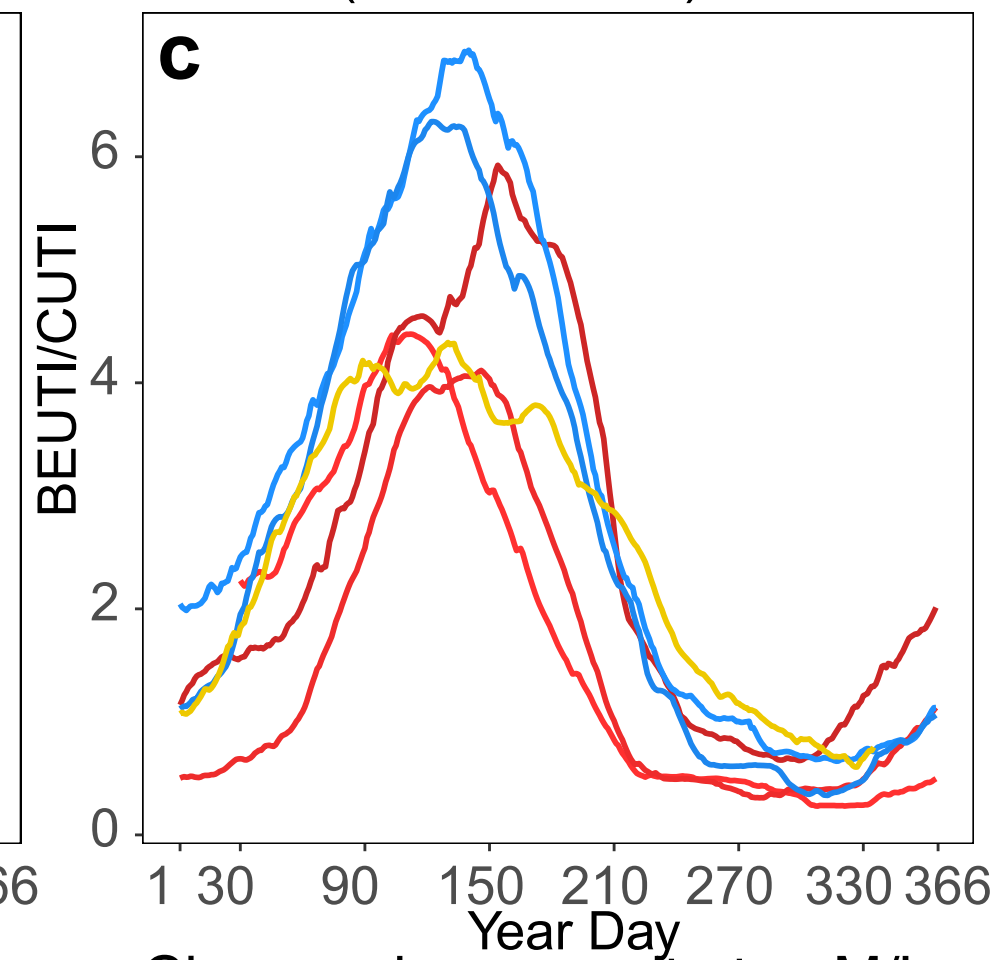
Coastal Upwelling  
Transport Index (CUTI)



Biologically Effective Upwelling  
Transport Index (BEUTI)



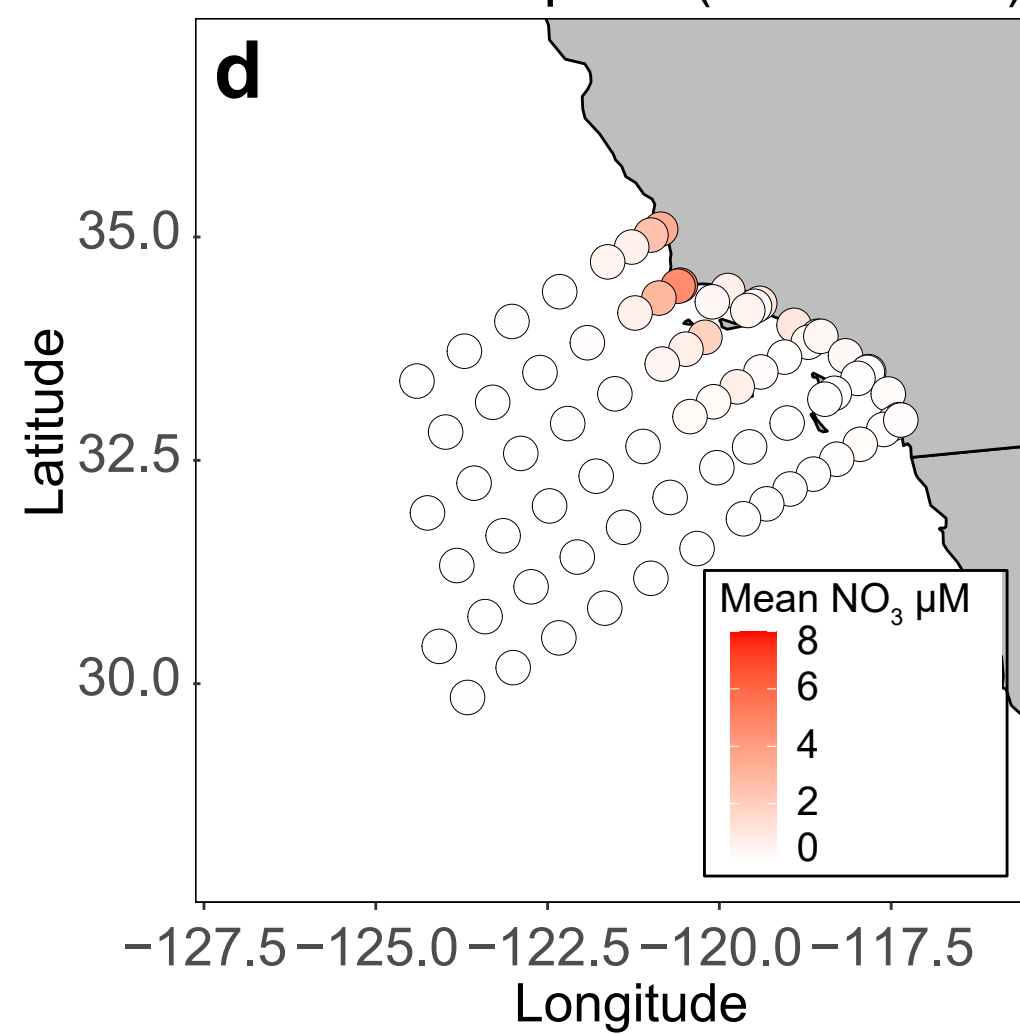
Regionally available  
nitrate (BEUTI/CUTI)



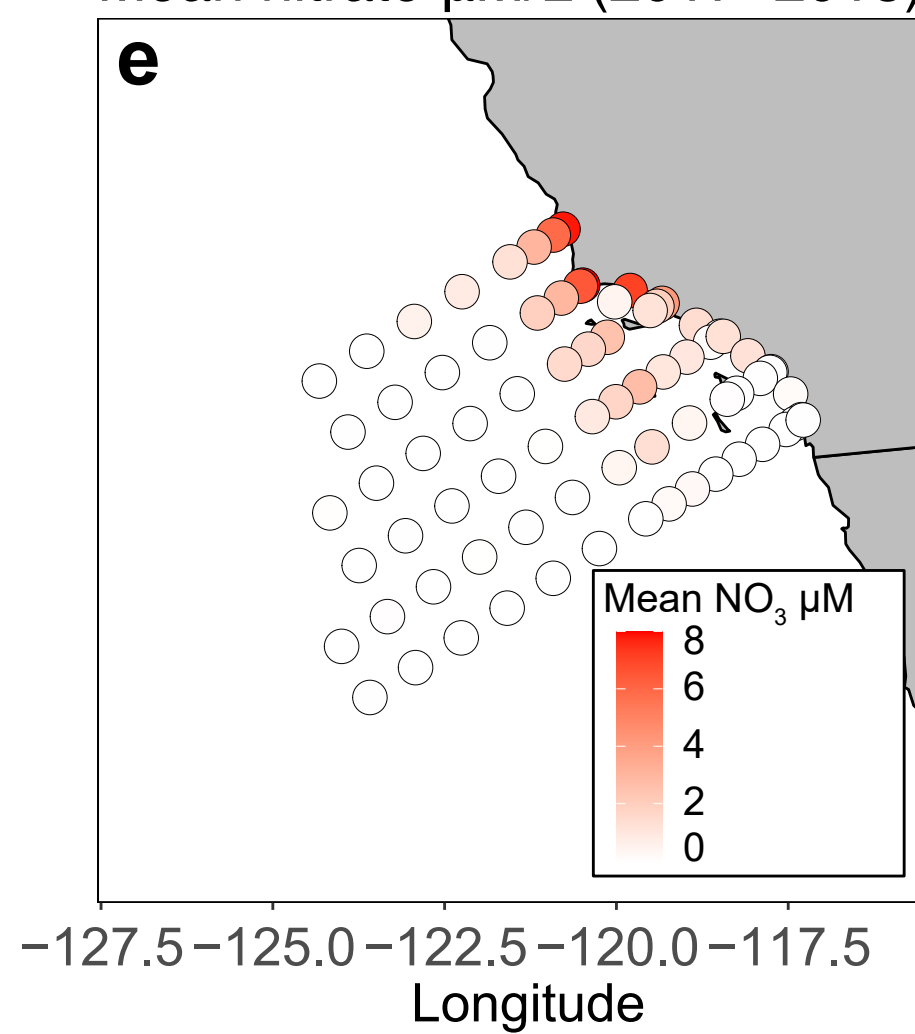
Year

- 2014
- 2015
- 2016
- 2017
- 2018
- 2019

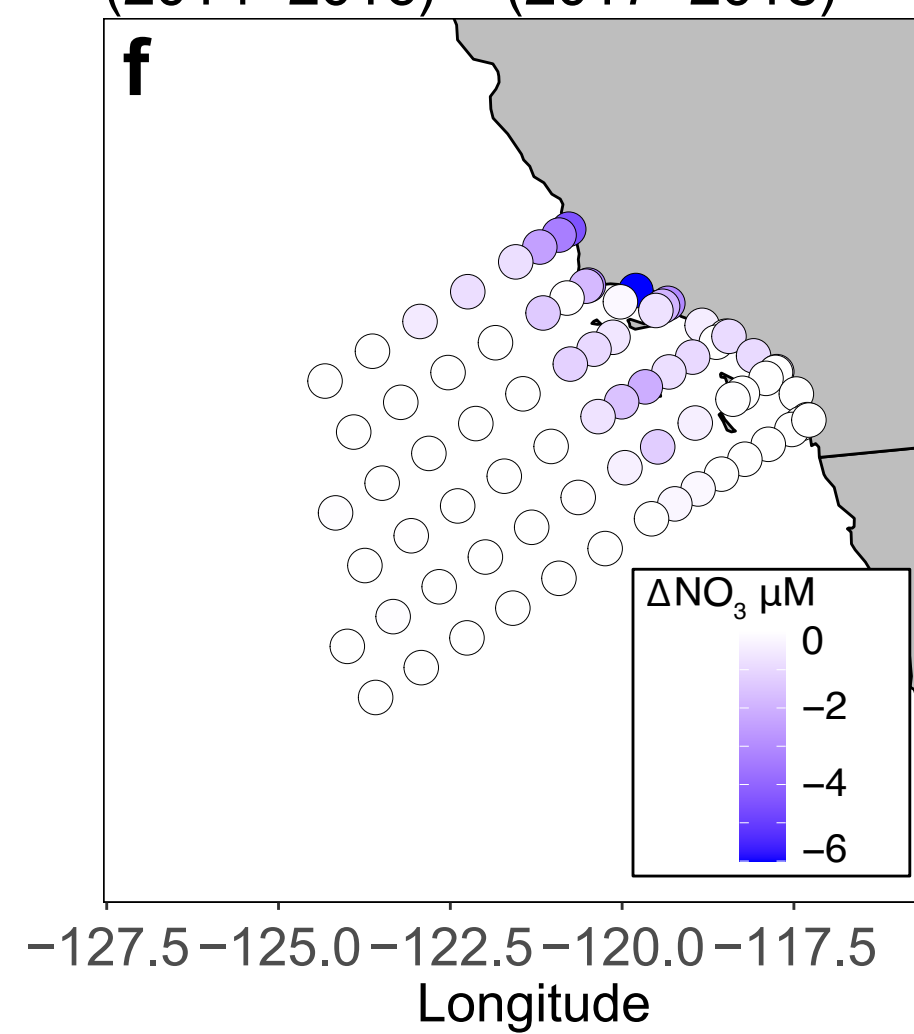
Mean nitrate  $\mu\text{M/L}$  (2014–2016)



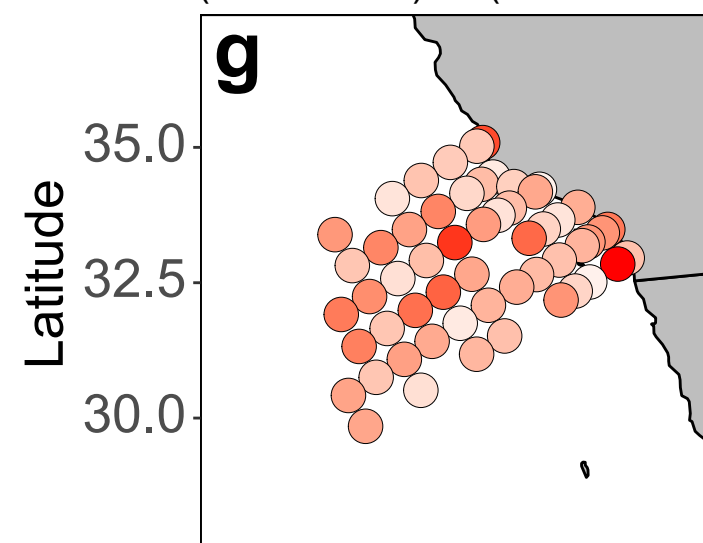
Mean nitrate  $\mu\text{M/L}$  (2017–2018)



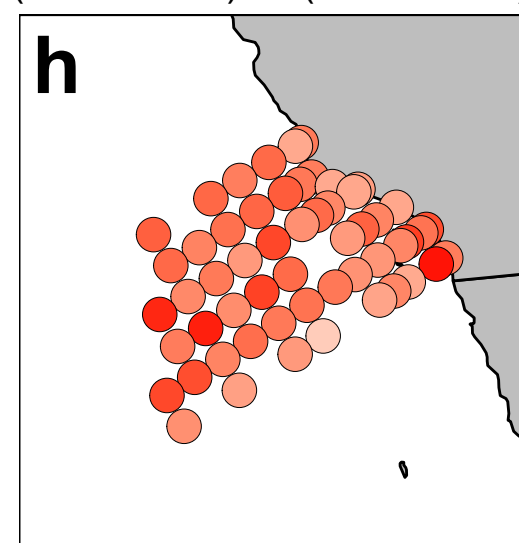
Changes in mean nitrate  $\mu\text{M/L}$   
(2014–2016) – (2017–2018)



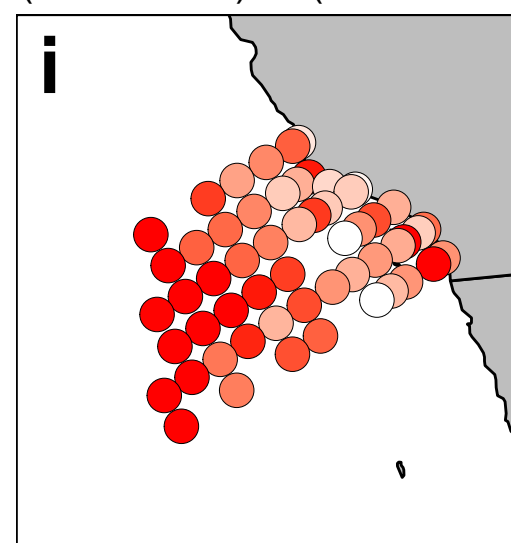
Archaea  
Surface  
(2014–2016) vs (2017–2018)



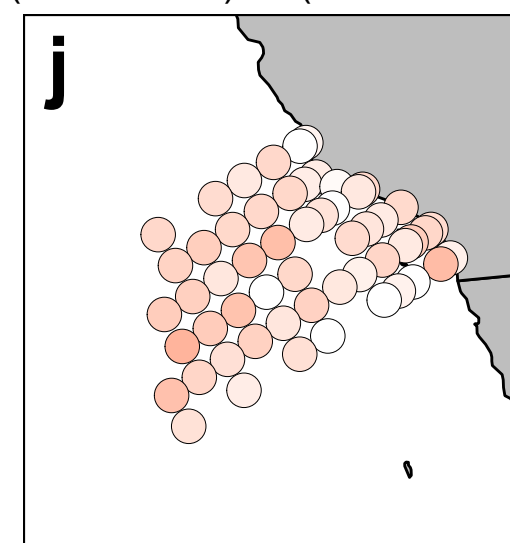
Bacteria  
Surface  
(2014–2016) vs (2017–2018)



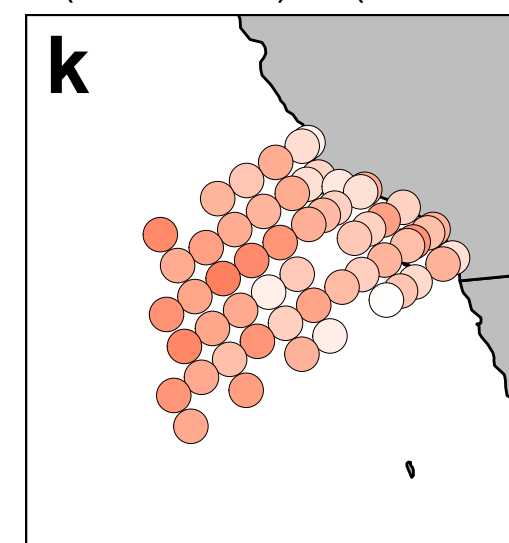
Cyanobacteria  
Surface  
(2014–2016) vs (2017–2018)



Photosynthetic eukaryotic  
protists Surface  
(2014–2016) vs (2017–2018)



Heterotrophic eukaryotic  
protists Surface  
(2014–2016) vs (2017–2018)



Bray-Curtis  
Similarity

- 0.6
- 0.5
- 0.4
- 0.3
- 0.2