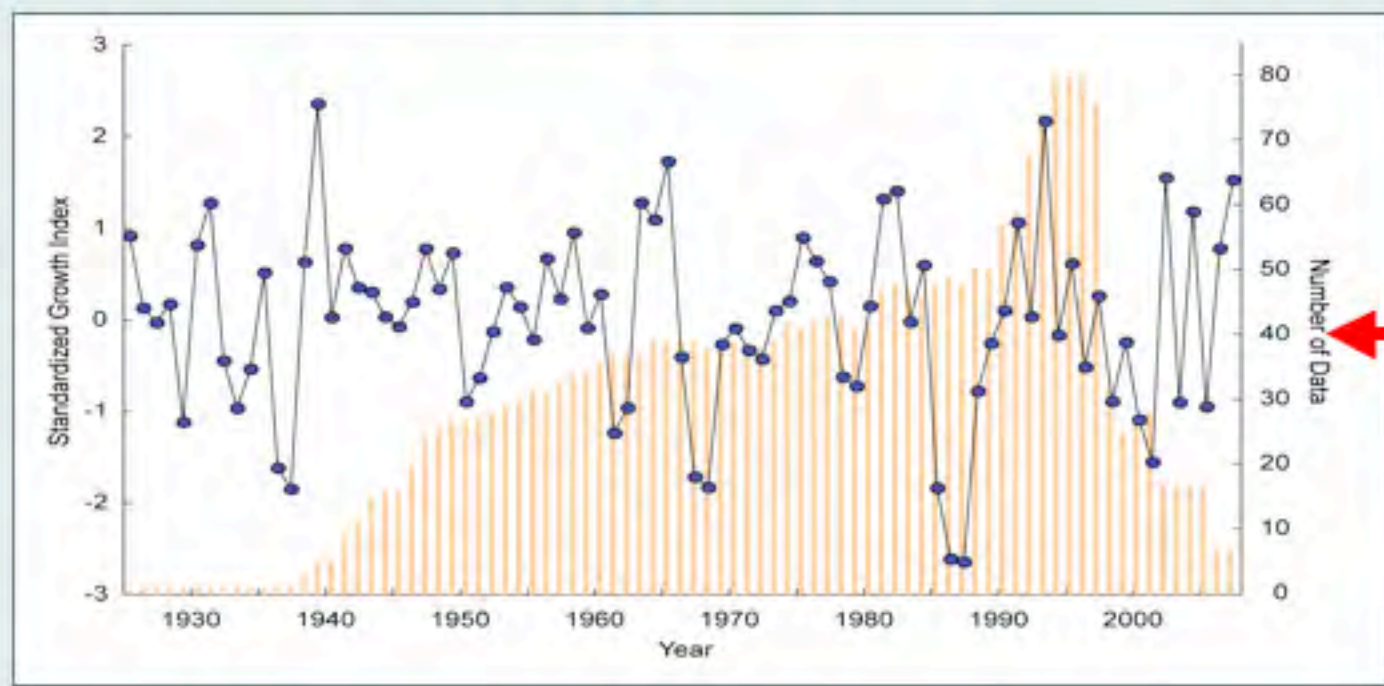


T Brey, G. Lohmann, K. Jenkins,
IY Ahn, B Lomovasky, M Voigt

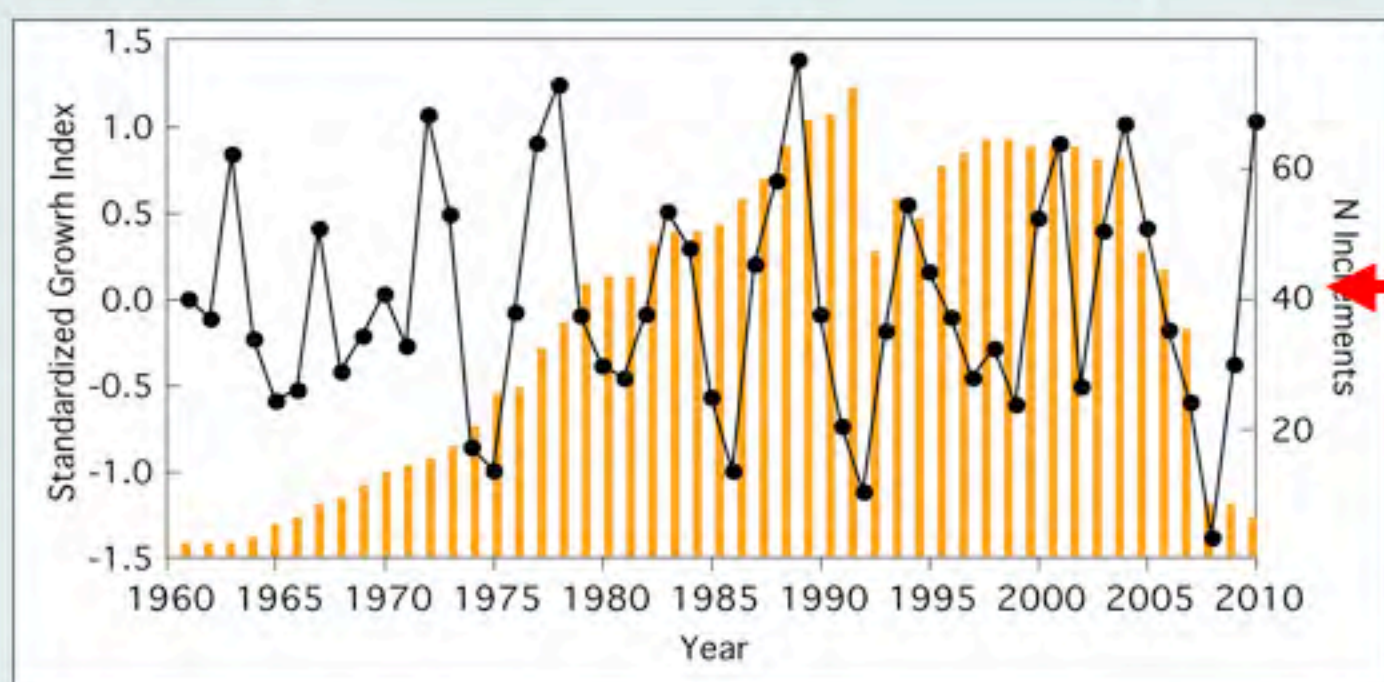
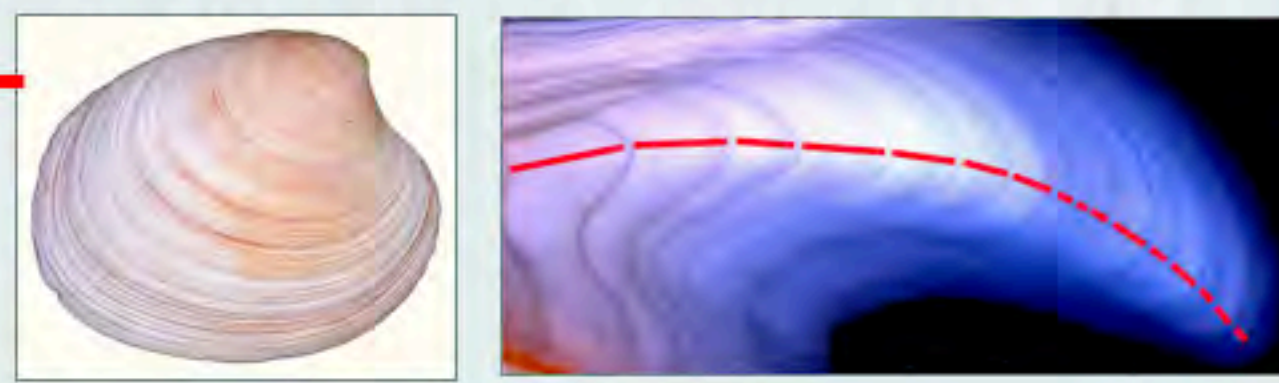
Does the Antarctic Circumpolar Current isolate high-latitude bivalves from ENSO forcing?

We compare:



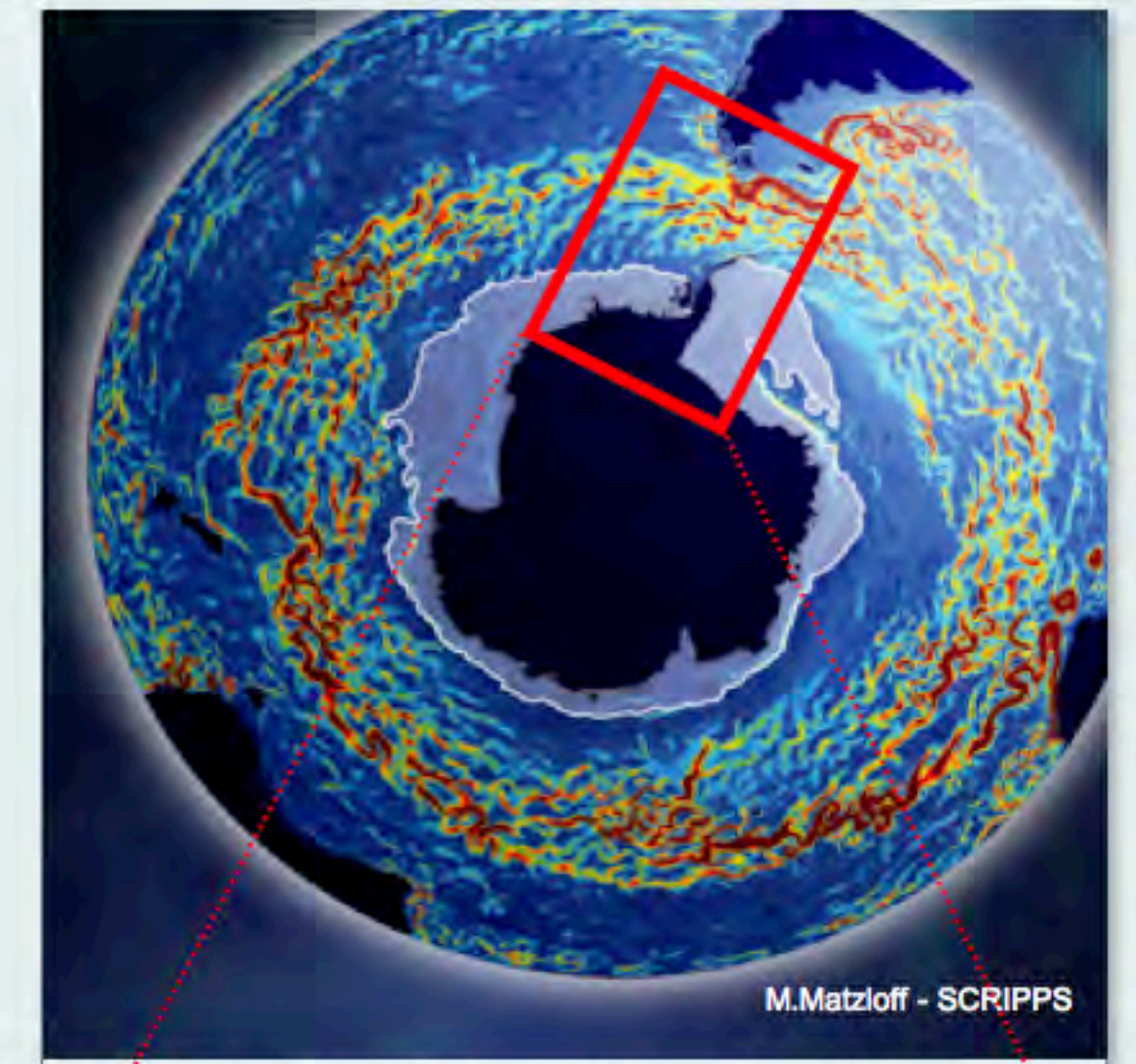
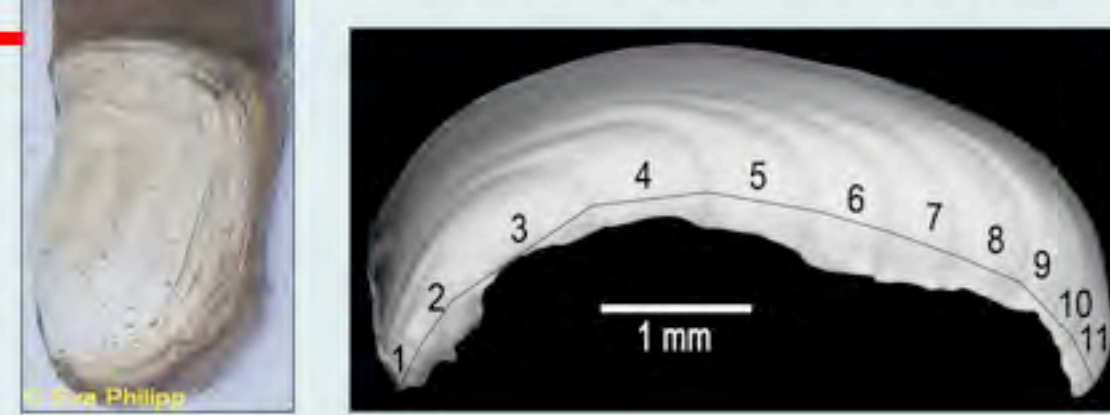
Eurhomalea exalbida

Max age: ± 70y; Growth series 1934 - 2007



Laternula elliptica

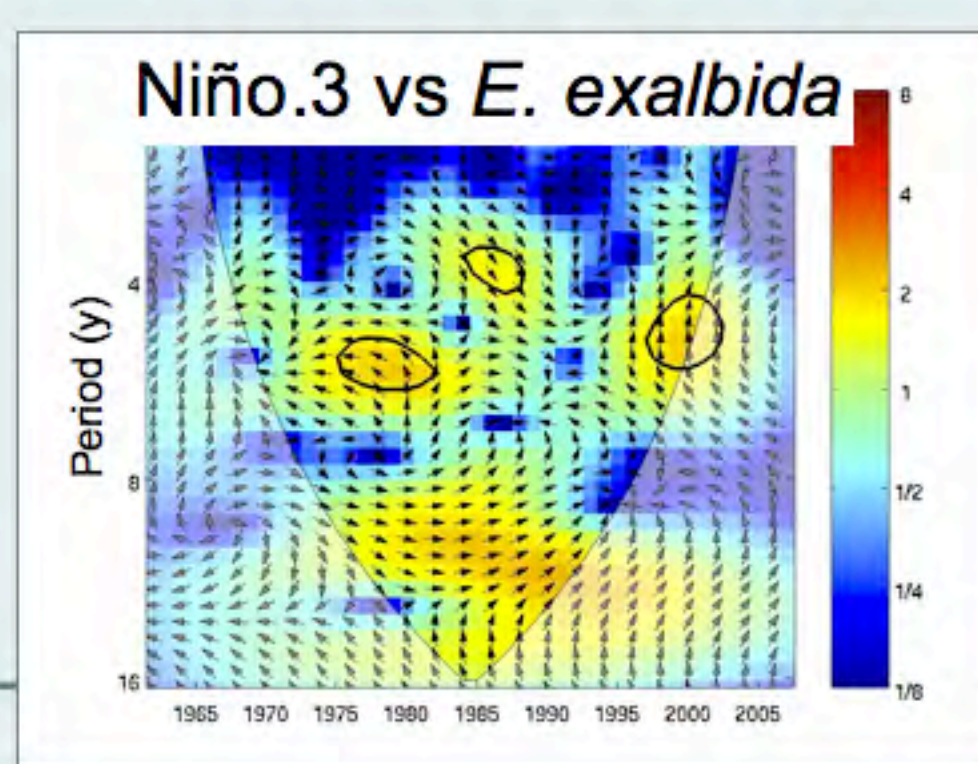
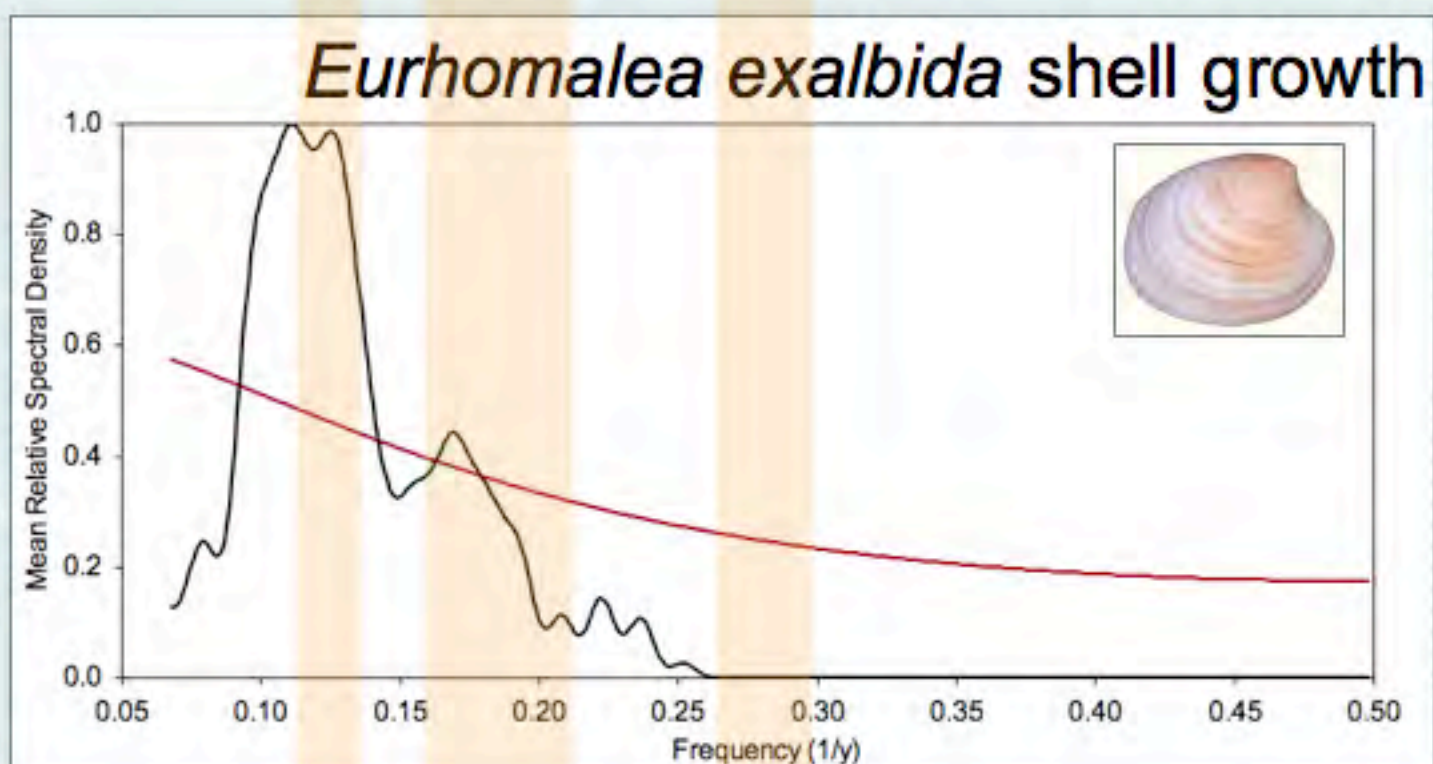
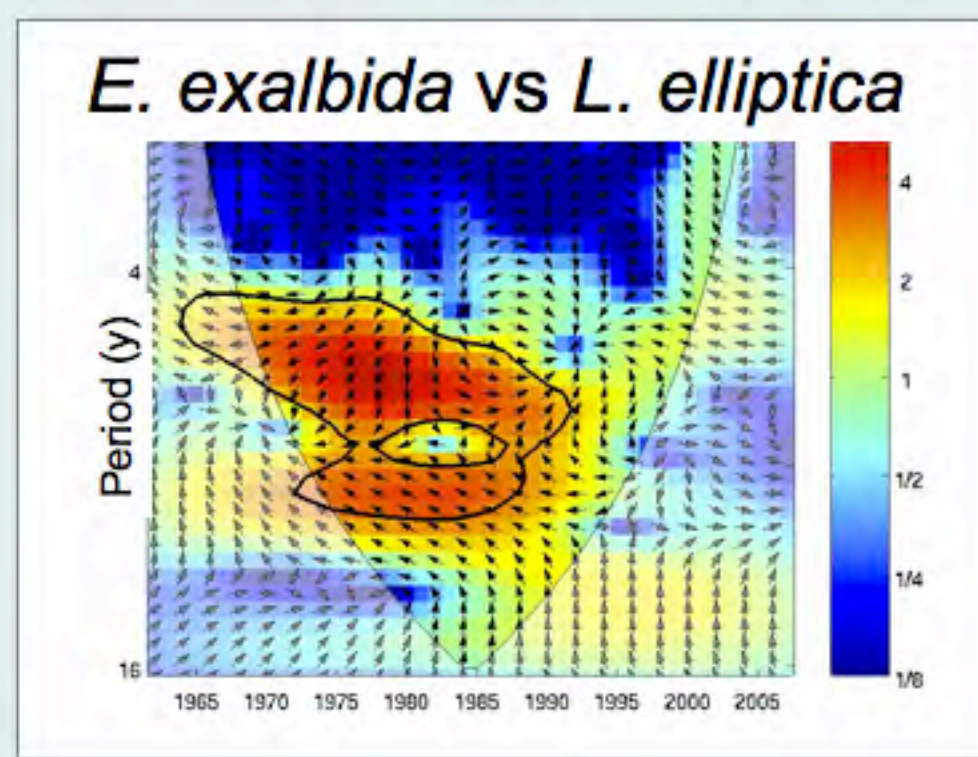
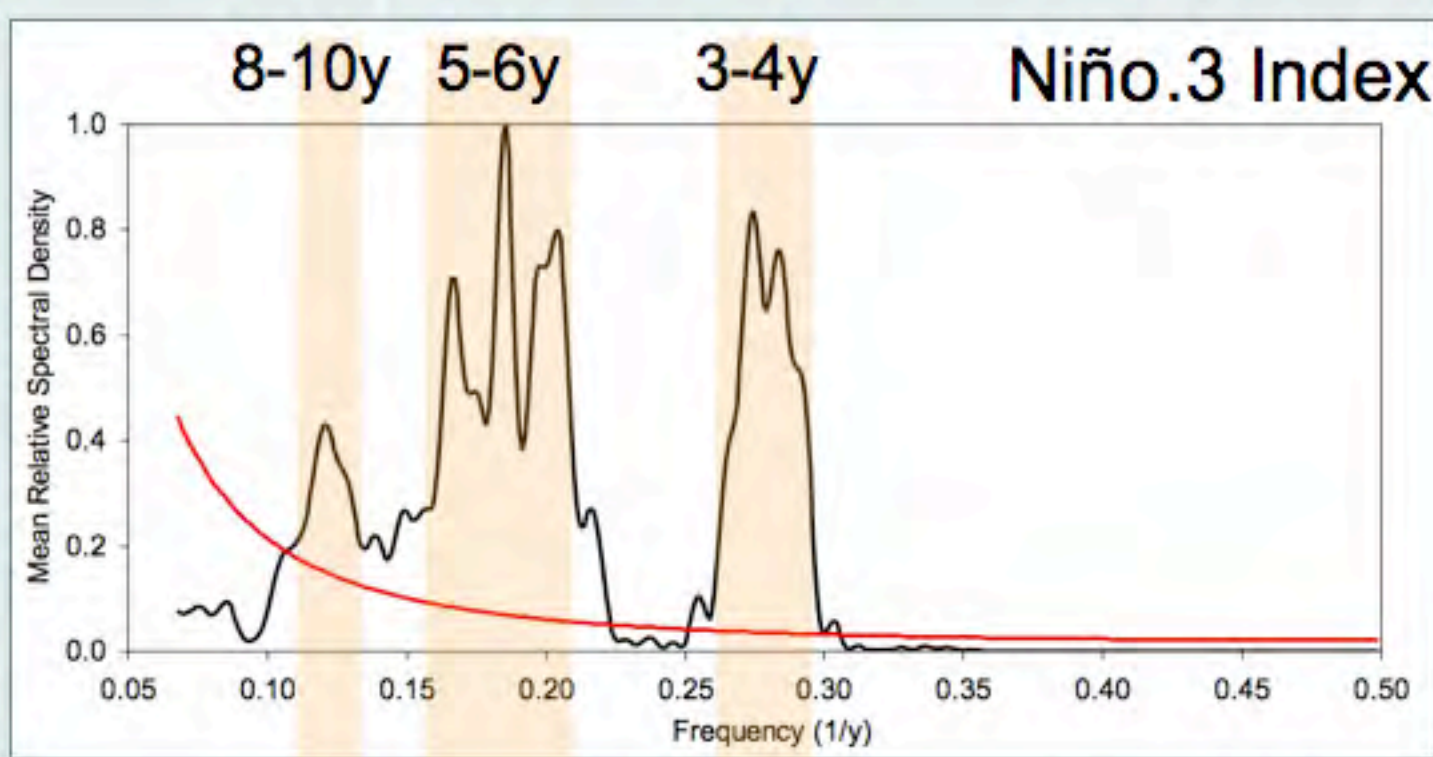
Max age: ± 35y; Growth series 1961 - 2010



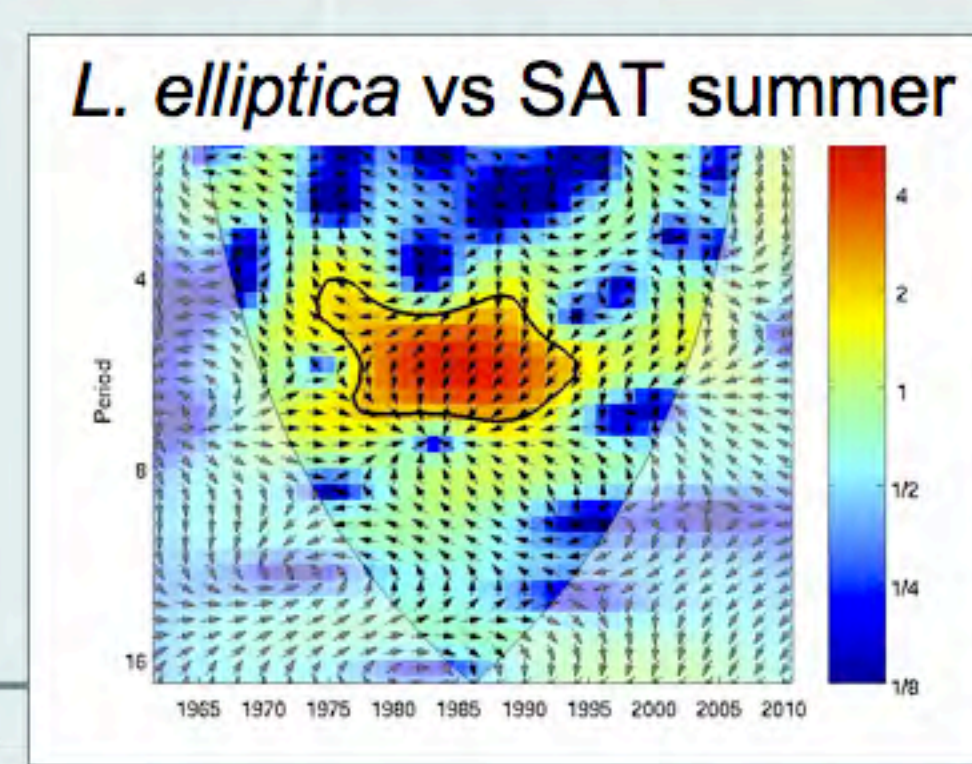
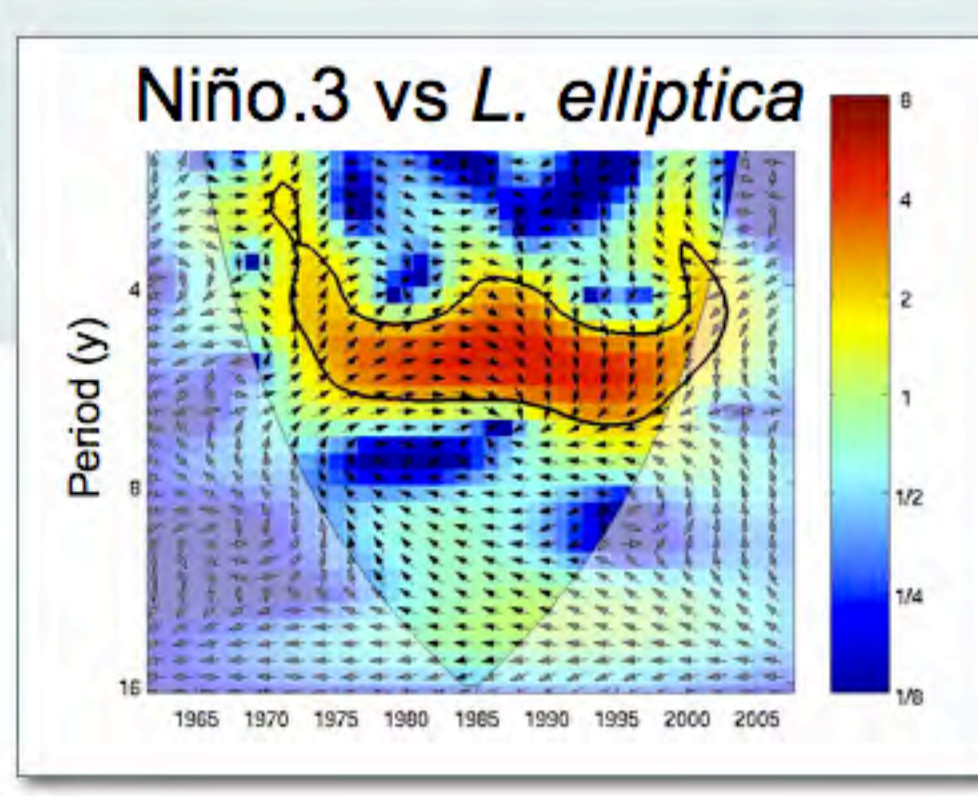
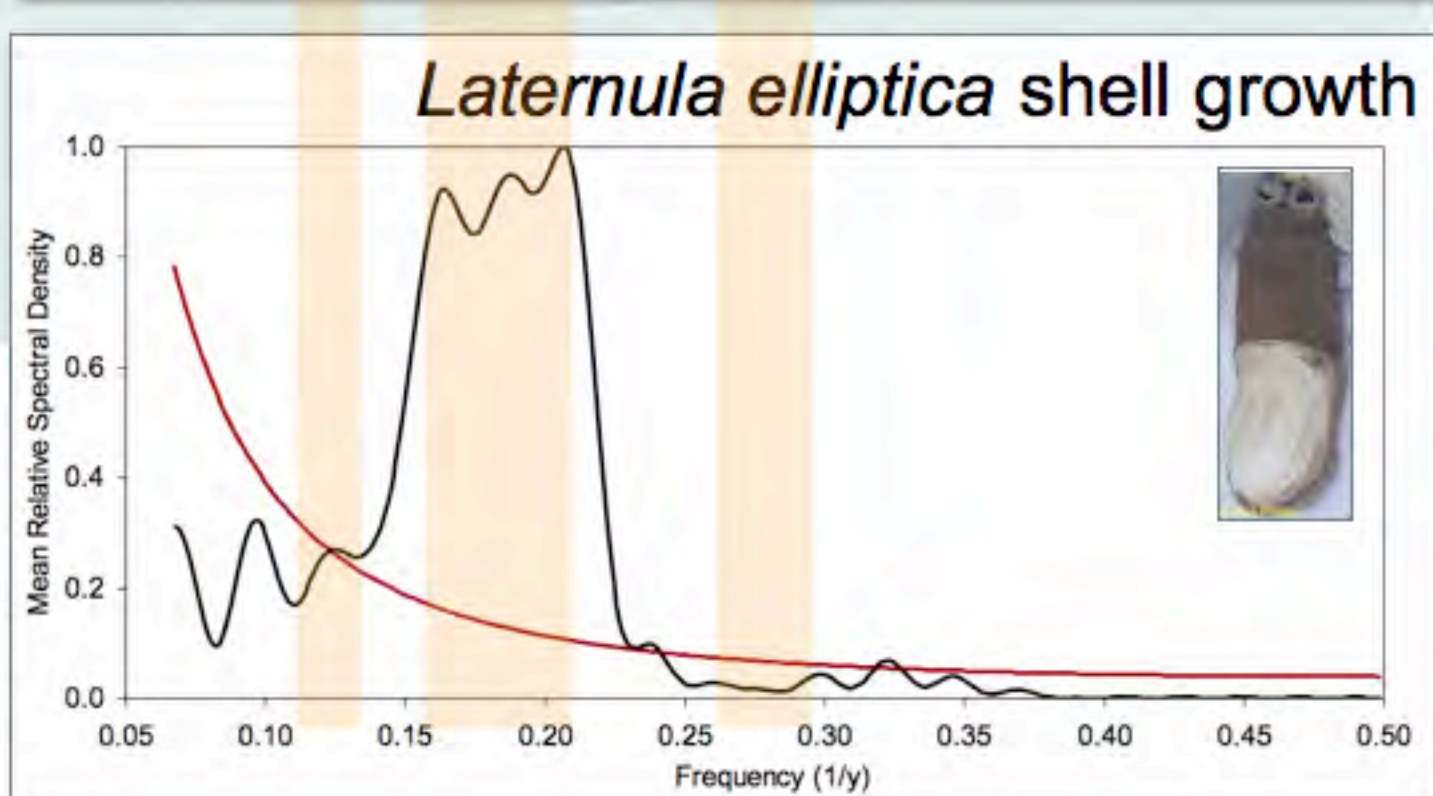
You judge:

Multi Taper Spectra

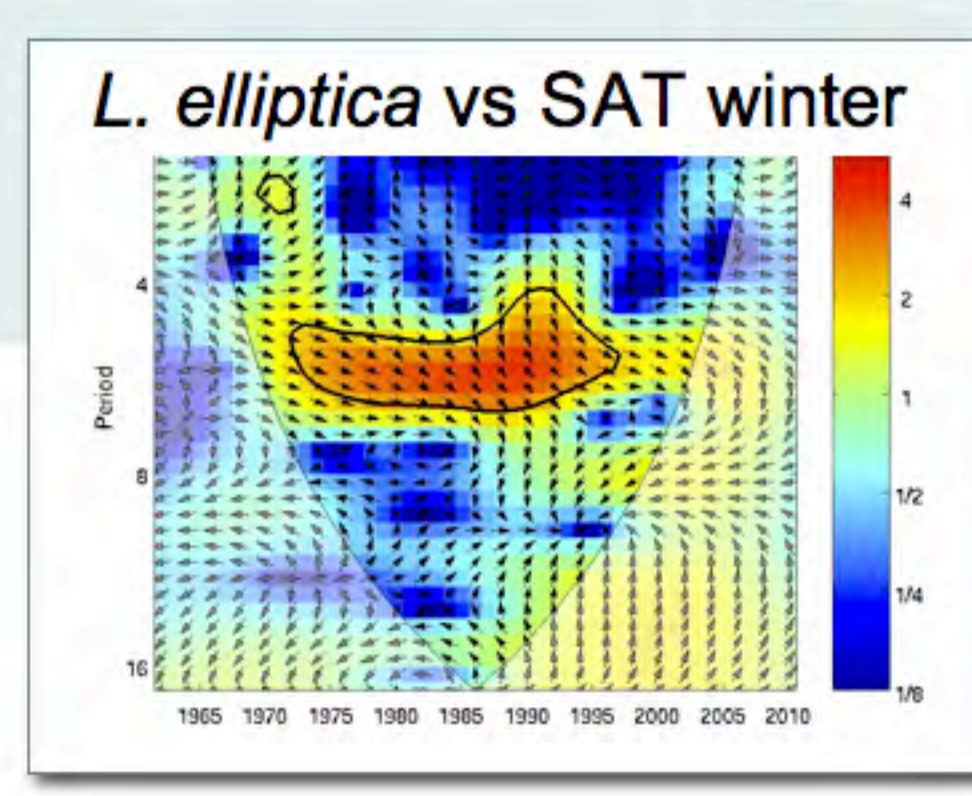
Cross Wavelet Spectra



- *L. elliptica* growth is closely coupled to ENSO signal
- ACC ≠ Barrier for ENSO signal
- Likely signal pathways:
El Niño / La Nina
 - - / + air temperature
 - + / - sea ice extent
 - - / + glacial runoff
 - overall + shell growth



← Out-of phase!



→ In phase!