

# Groundfish nMDS - Comparing Areas By Year

*Colette Ward*

*May 6, 2016*

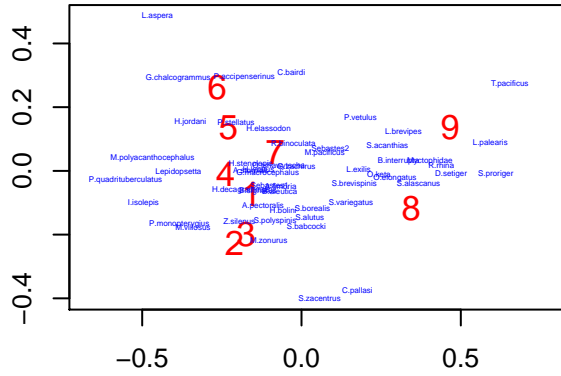
Transformation is Wisconsin-style double transformation (normalizes taxa to % abundance, then normalizes abundances to the maximum for each species) of sqrt-transformed data.

**Sorry the text is so small. It's necessary for legibility because there are so many species. Enlarge the output pdf to see species names.**

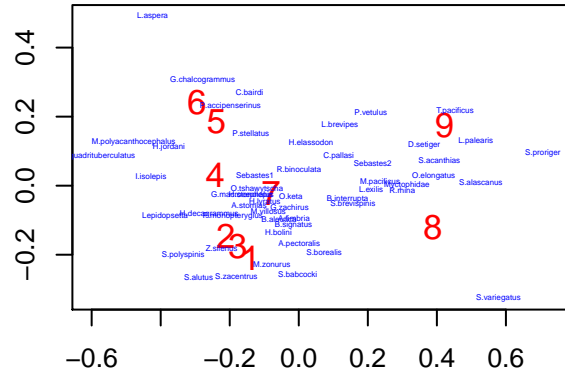
## Shallow areas

Red text = our 9 areas.

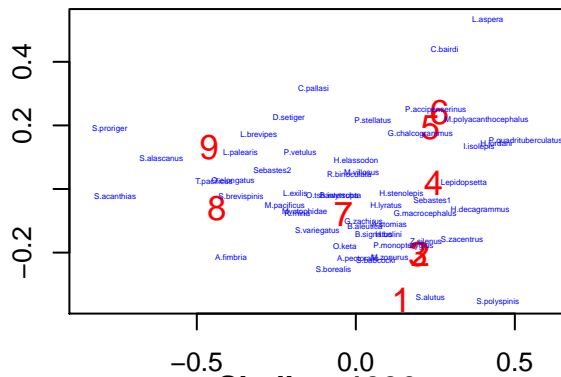
**Shallow 1984**



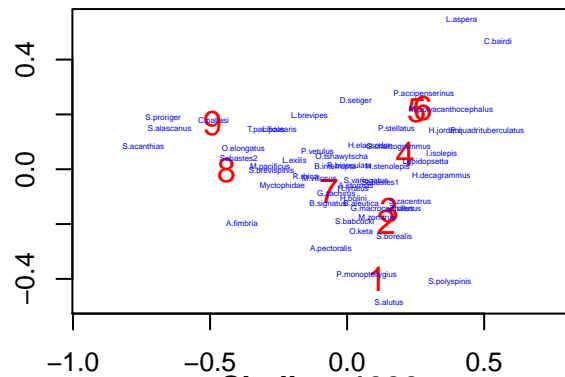
**Shallow 1987**



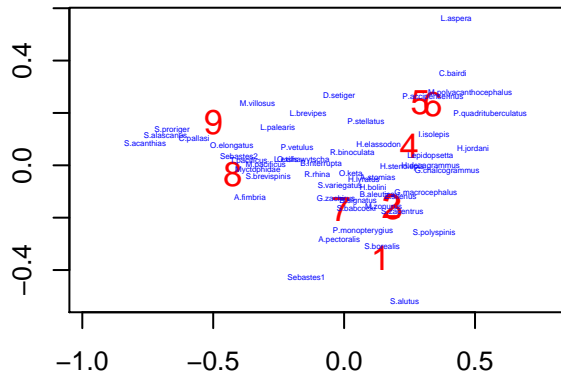
**Shallow 1990**



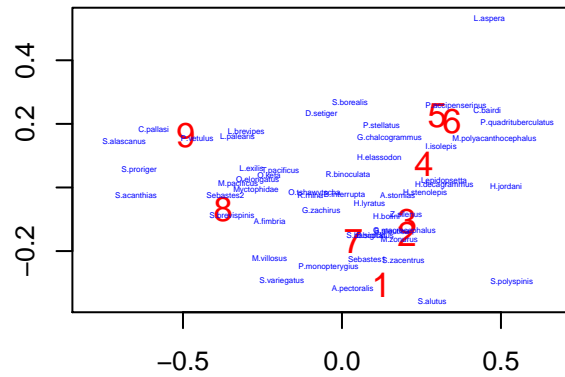
**Shallow 1993**



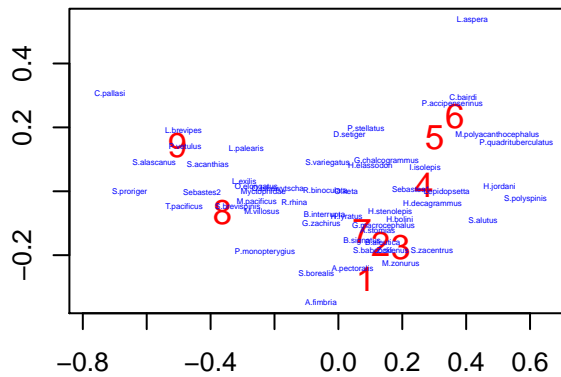
**Shallow 1996**



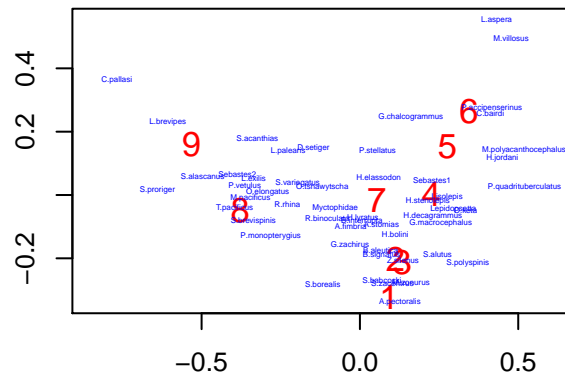
**Shallow 1999**

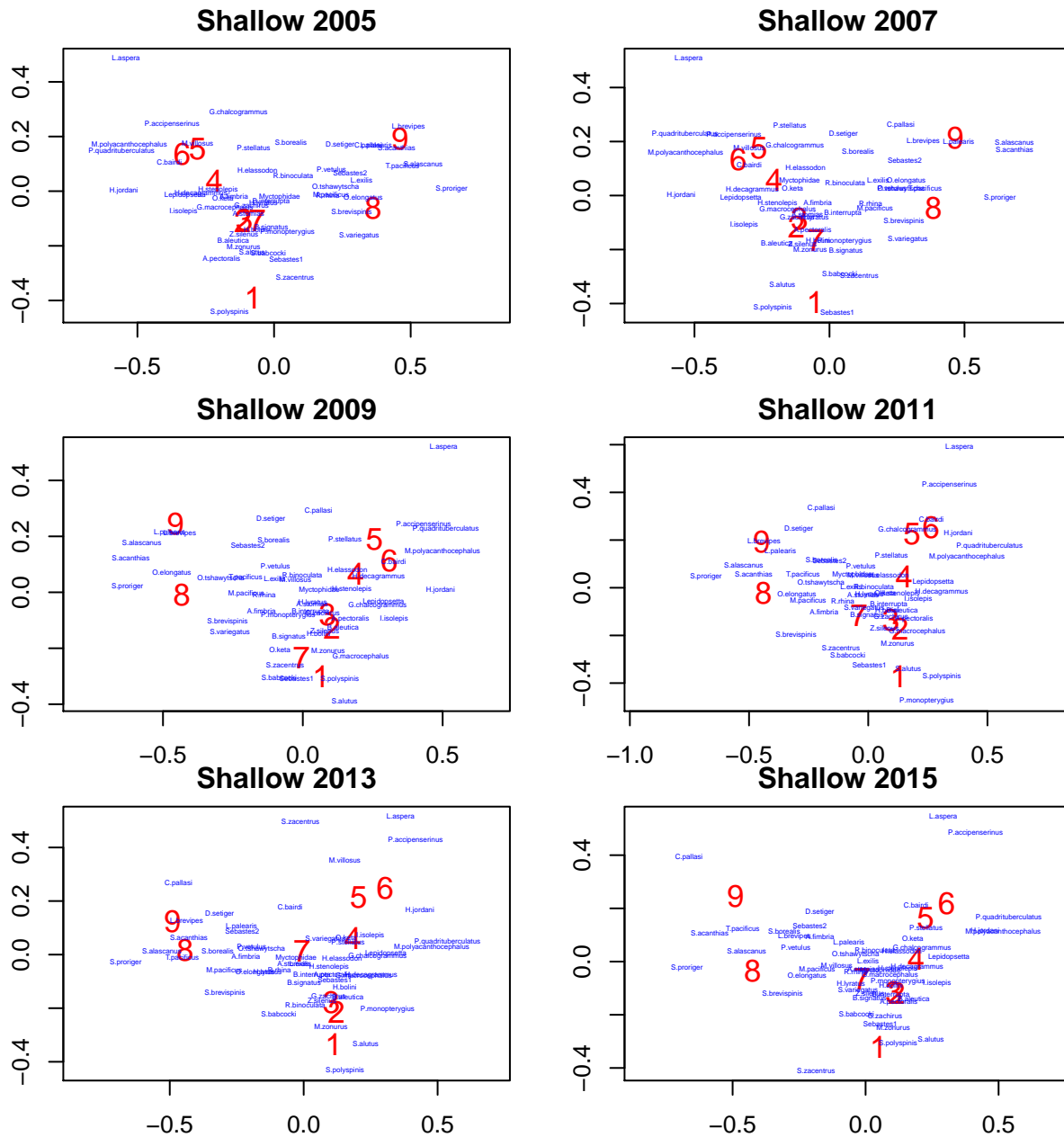


**Shallow 2001**



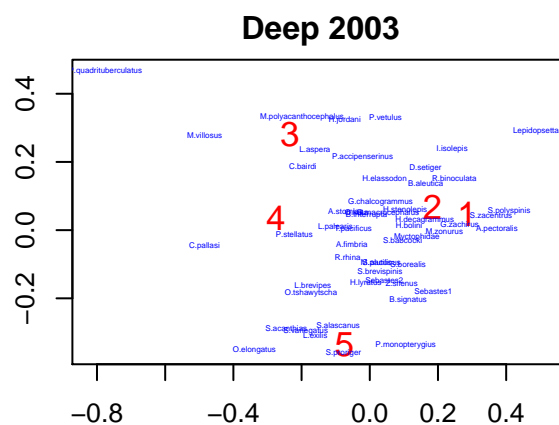
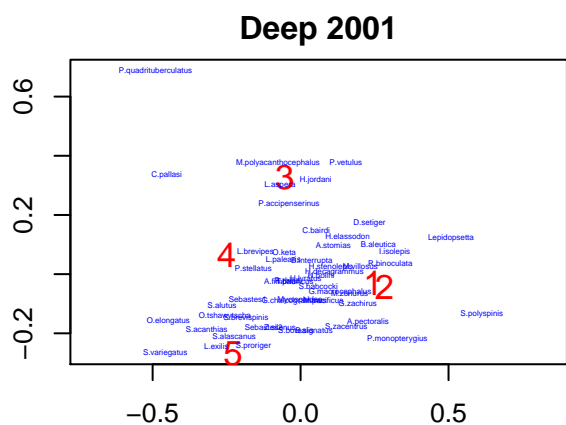
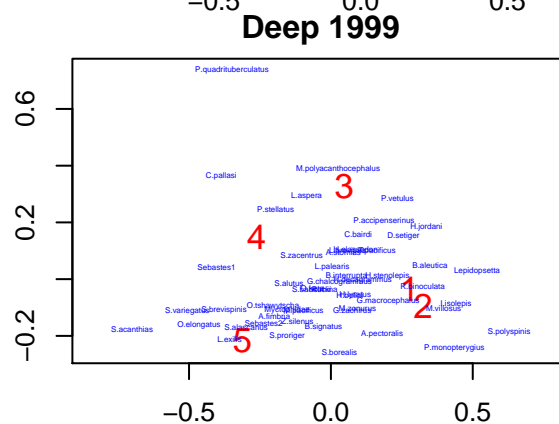
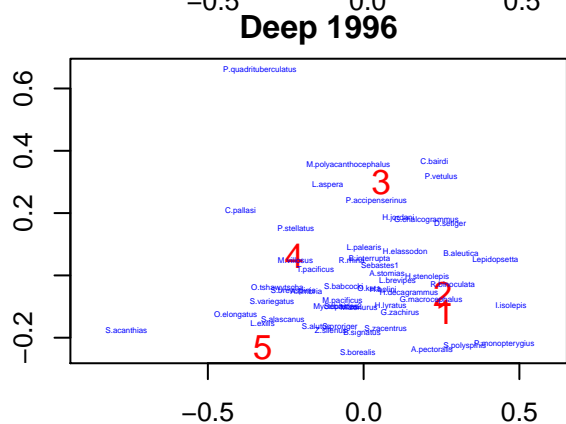
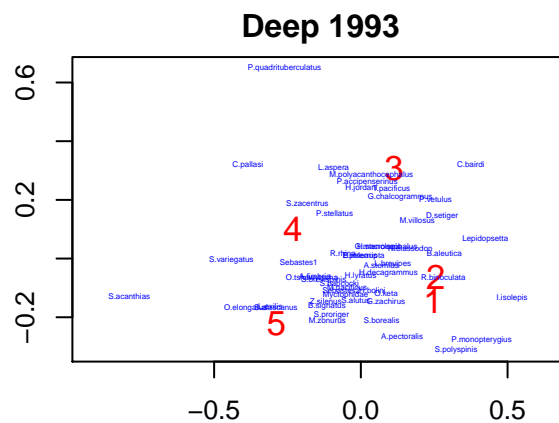
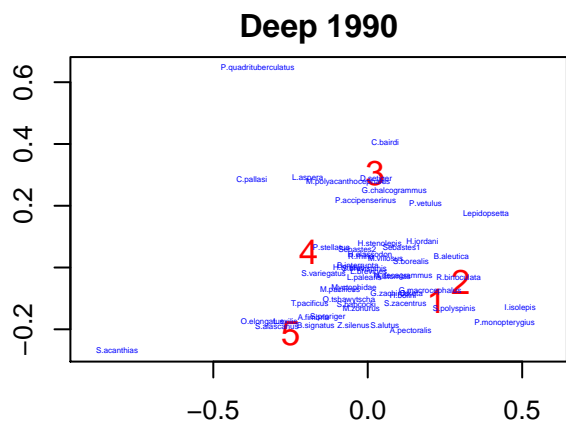
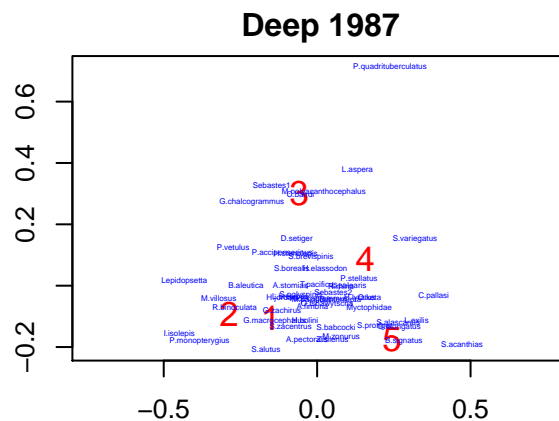
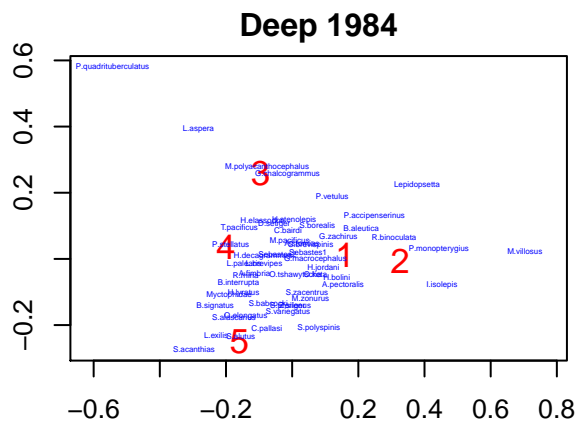
**Shallow 2003**



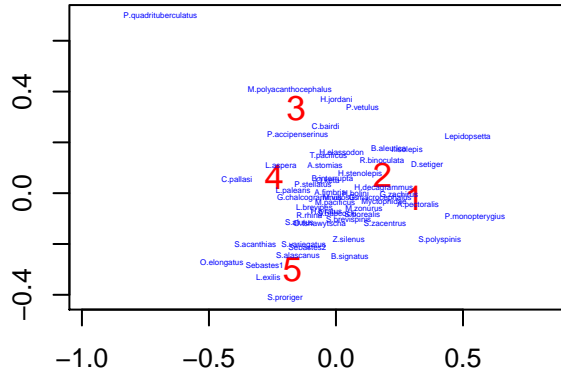


## Deep areas

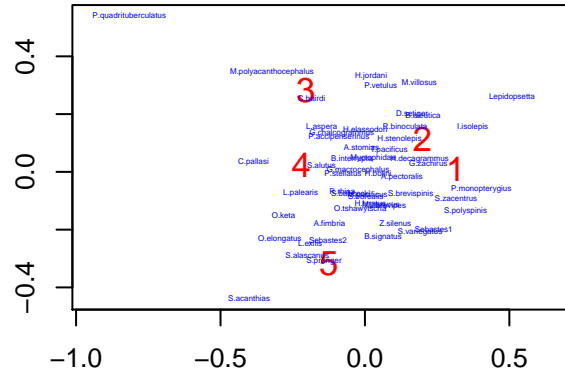
Red text = our 9 areas.



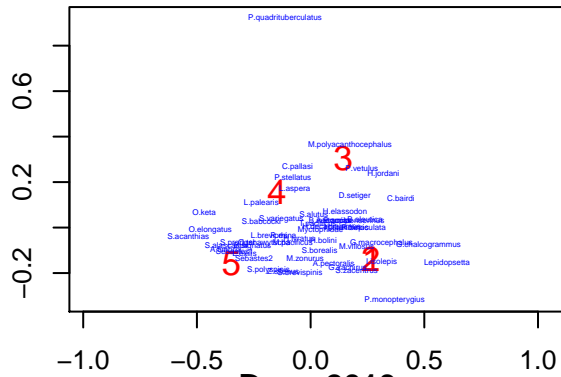
Deep 2005



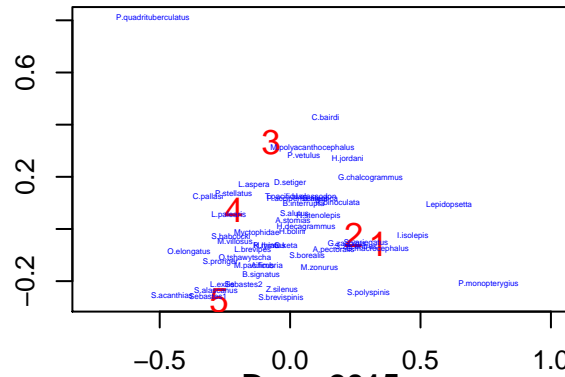
Deep 2007



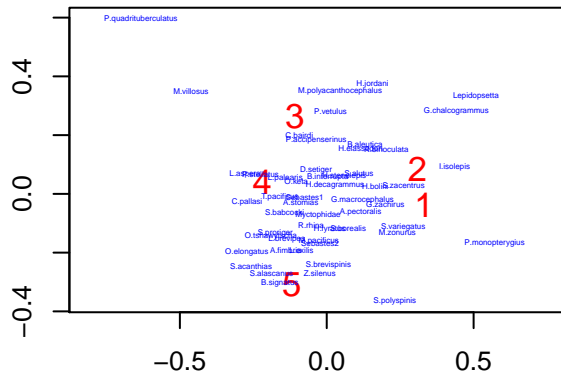
Deep 2009



Deep 2011



Deep 2013



Deep 2015

