**LANL Stuff**

* Have some calls over the summer with Mat to update Nikki on what’s going on.
* If need to bring back valuable output, she can send harddrive to house.
* **Read about the Southern Ocean.**

**COMPS/EBUS paper**

1. **Need to address the CalCS discrepancy – look at Long et al**
   1. Can point to other decompositions and show they’re not perfect
   2. ~~Make map of grid cell decompositions, with one showing true total, one showing approximate total, one showing the difference to highlight what’s driving this discrepancy~~
   3. **Long 2013 –** shows that cross-derivative terms contribute little. References Doney 2009 paper. Doney essentially says it doesn’t matter which way to do it. **Should be fine citing Long and Doney that those terms shouldn’t matter.**
   4. ~~Discrepancy is smaller magnitude than SST and DIC themselves.~~
2. ~~Spread along CalCS members~~
   1. ~~Papers from Clara Deser can be cited. Mid-latitude noise can cause diversity of responses, even if ENSO response is the same.~~
   2. **~~Put into discussion. Cite Dunne and Ryk papers + Clara paper.~~**
3. **Discussion of climate change.**
   1. Should have a discussion paragraph that mentions we didn’t look at it explicitly but future studies could do so.
4. ~~Discussion paragraph on not having total variance explained~~
   1. ~~CalCS has 50% explained with orthogonal modes.~~
   2. ~~CanCS responding to atmospheric mode so a little more noisy.~~
5. ~~Motivation~~
   1. ~~After sDIC decomposition, if CO2 flux contributes significantly (relative to circulation) then can mention ocean acidification. If not, can think about emissions.~~
6. ~~Discussion more contrasts and comparisons~~
   1. ~~Similar in that they have a lot of interannual variability, similar forcing mechanisms, but their location changes their biogeochemistry and the sort of mode they respond to.~~
7. **~~Compute sDIC decomposition~~**
   1. ~~This will tell us about biology response but also how much CO2 flux contributes to DIC anomalies (for ocean acidification)~~