

## **Data Management**

This project will produce novel organic geochemical data (compound-specific AA isotopic measurements, as well as contextual compositional and enantiomeric AA measures) for a range of pre-existing sediment cores and samples, as well as for a new set of progressively degraded natural organic matter samples produced by a laboratory time series proposed for the project. Since this is novel data aimed primarily at new proxy development, no standards yet exist for its reporting or dissemination, and in fact developing a basic interpretational framework for paleoceanographic samples is one of our primary goals. Our data will thus be shared with the scientific community primarily through presentations and publications, including our proposed community outreach tutorial/ workshop, as well as with the students in the classes McCarthy and Ravelo teach at UCSC. All primary data and samples used for the project will be archived in the research collections of McCarty and Ravelo at UCSC, and would also be made freely available to researchers wishing to engage in complimentary or collaborative analyses.