**Global patterns in the relationship of DOC and spectral CDOM absorbance**

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Tentative journals: L&O, Biogeosciences, Frontiers

**Part I – predictions and spectral relationships**

* distinguishing patterns between DOM quality classes (divided by S275-295)
  + **figure 1**: map of sampling locations
  + **figure 2**: histogram of S275-295
  + **figure 3**: S275-295 vs. salinity
* predicting CDOM wl with another
  + **figure 4**: wl vs. r2 (with S classes)
* predict DOC with spectral CDOM
  + **figure 5**: wl vs. r2 (with S classes)
* DOC-specific absorbance across wavelength range
  + **figure 6**: wl vs. SUVA (with S classes)

**Part II – SUVA as a global indicator of DOM quality**

* using one universal wavelegth of SUVA (e.g. 350) to explore global patterns
  + **figure 7**: histogram of SUVA
  + **figure 8**: SUVA vs.
    - salinity
    - S275-295
    - ecosystem types

**Part III – spectral CDOM decomposition**

* find distinct components that can be linked to:
  + S275-295
  + SUVA
  + ecosystem type
  + **figure 9**: major component(s) vs. selected variable(s)