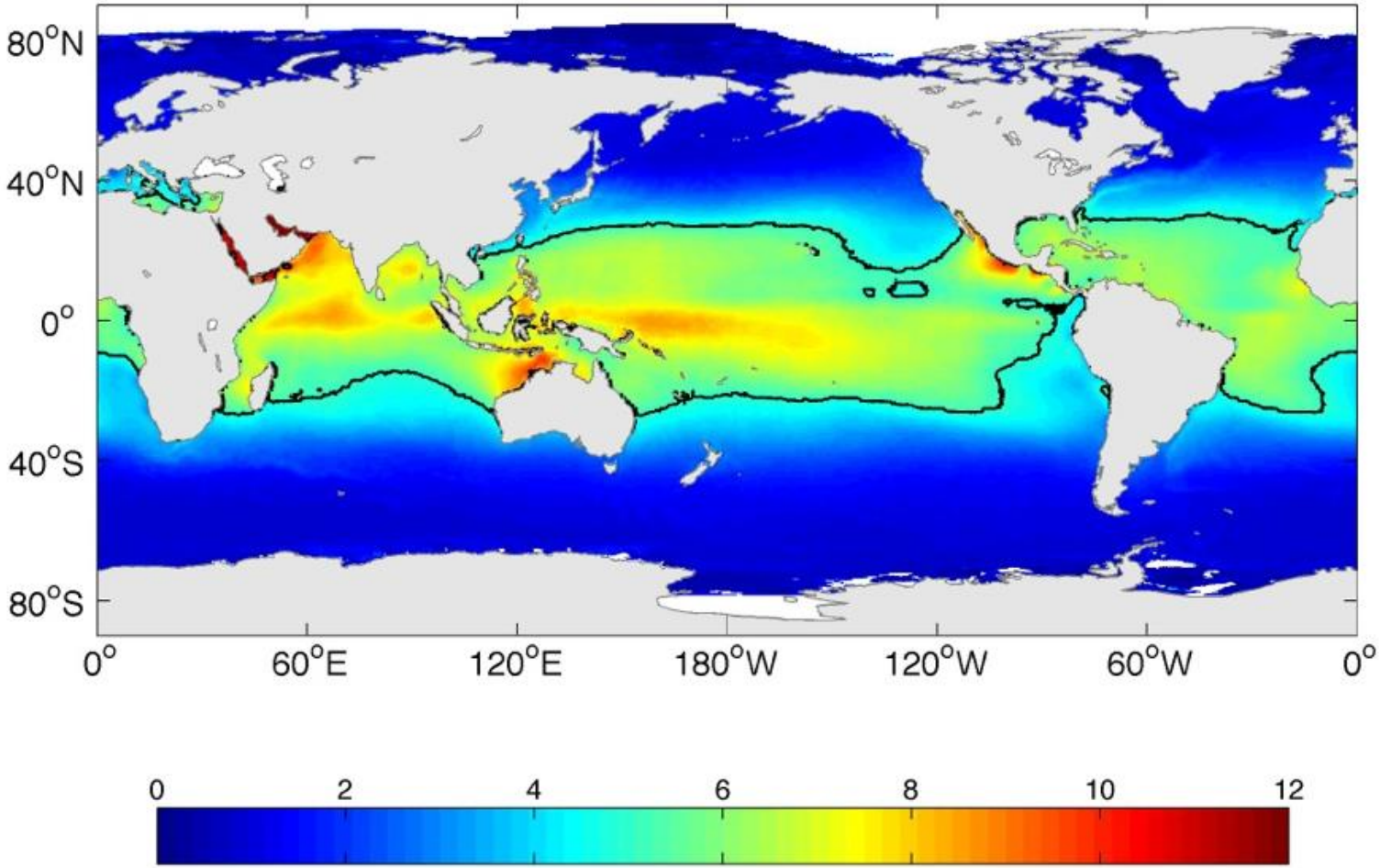
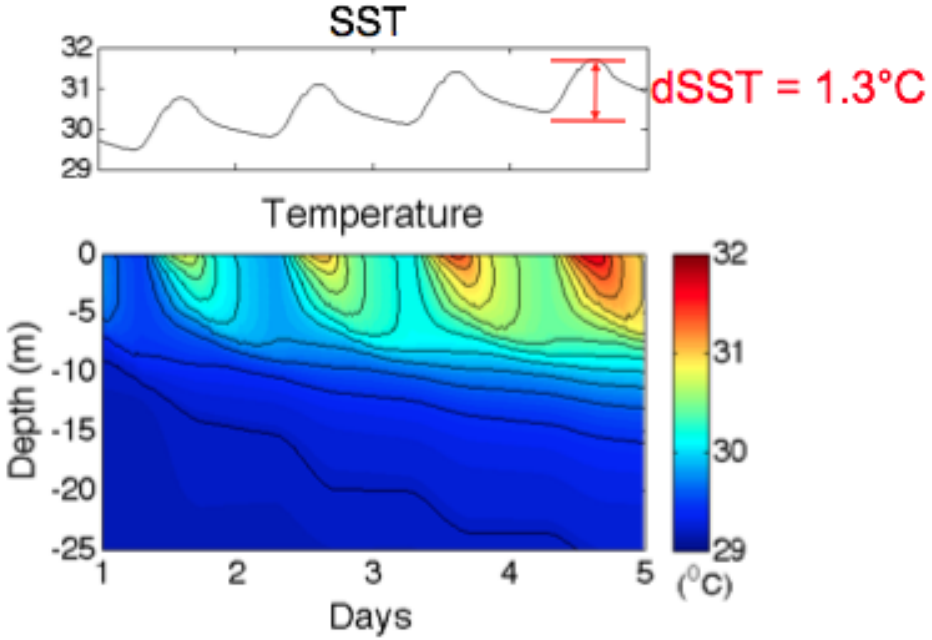
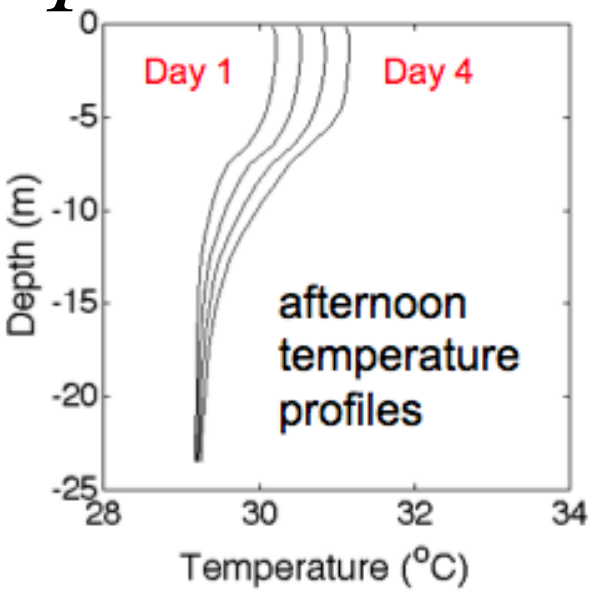
Impact of DW on Flux Climatology

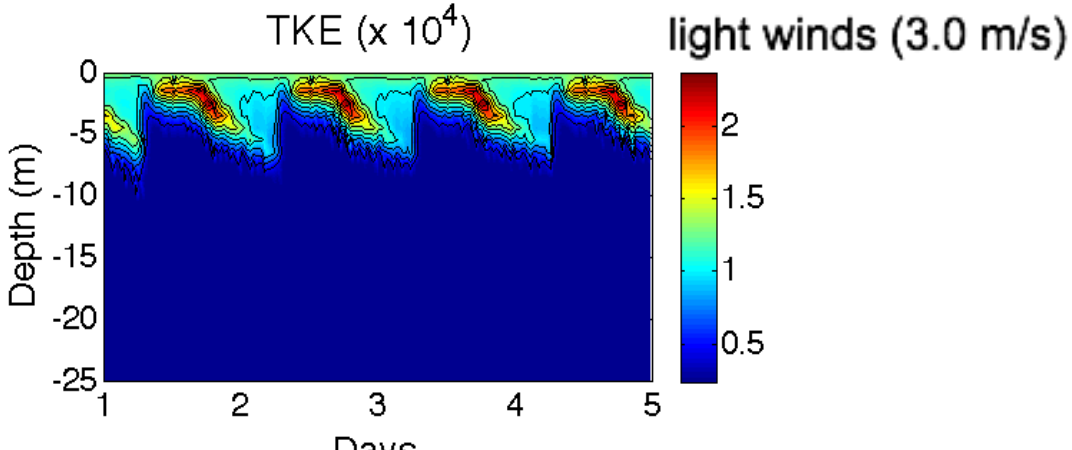


Clayson and Bogdanoff (2013)

Evolution of diurnal warm layers: light winds example

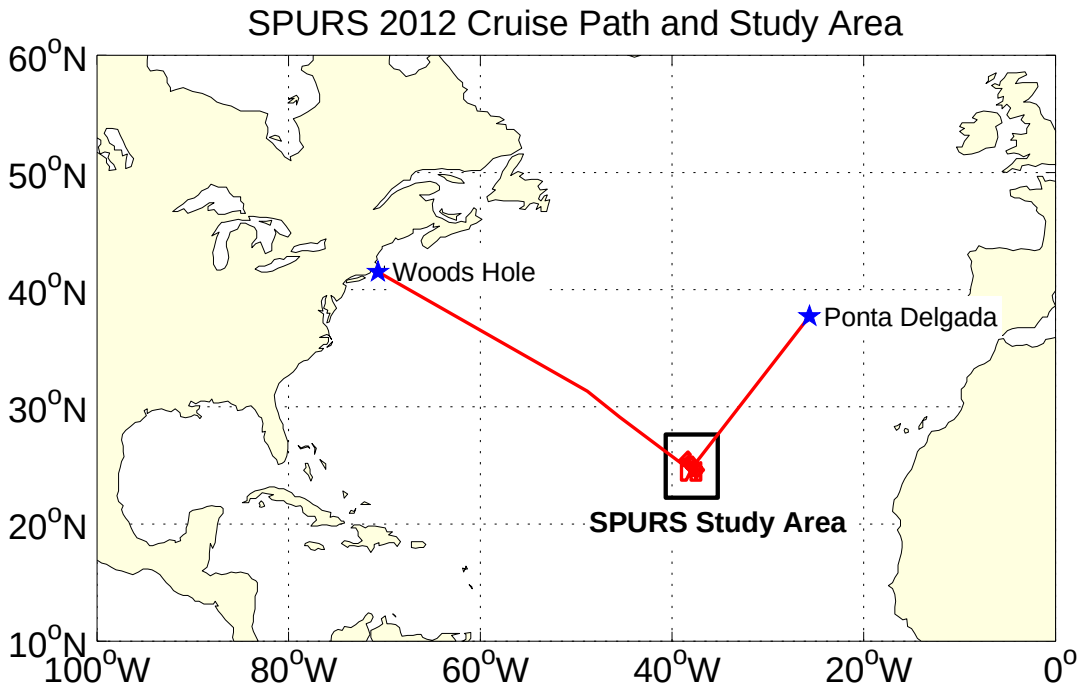






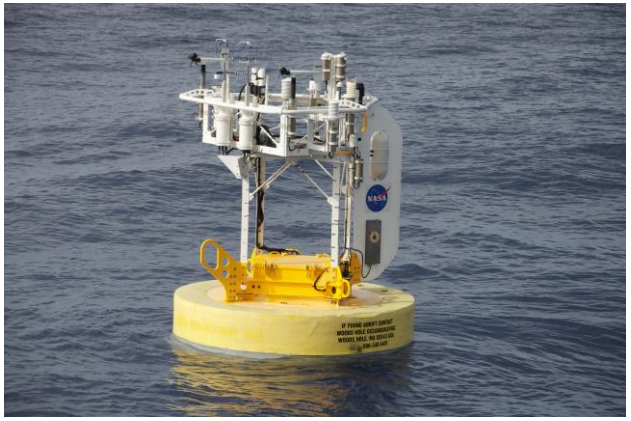
SPURS Study

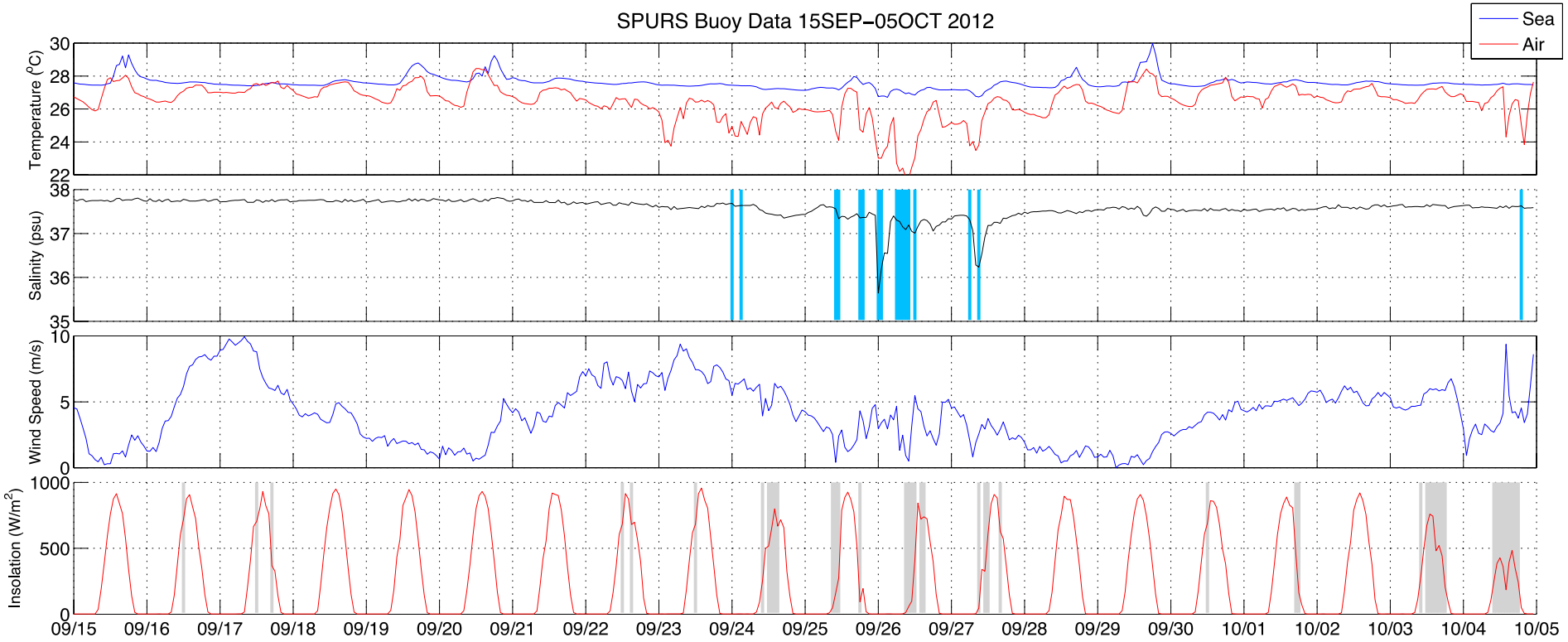
- Upper-ocean stable boundary layers have rarely been measured with high spatial- and temporal-resolution
- New/improved instrument platforms allow for the exploration of the SBL in the SPURS Region



WHOI SPURS Mooring

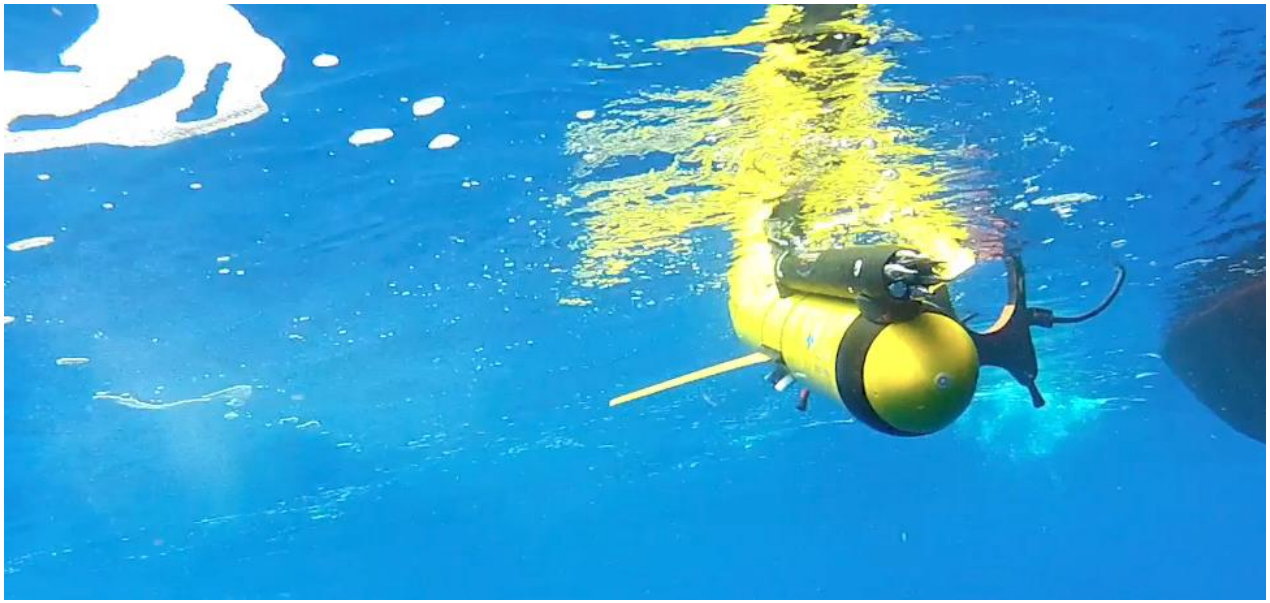
- Direct Covariance Flux System (DCFS)
- WHOI's IMET System



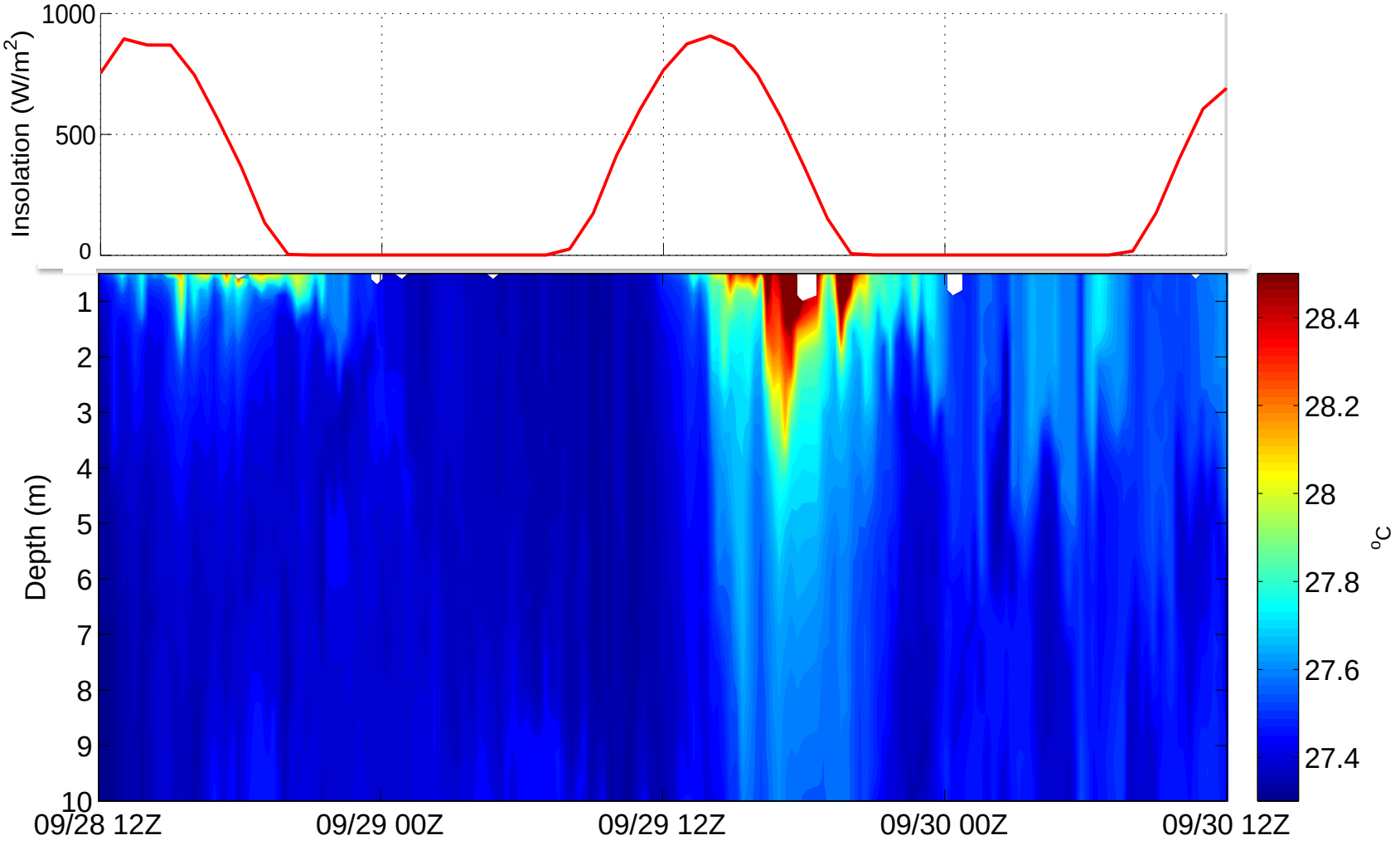


Physics of DW Layers

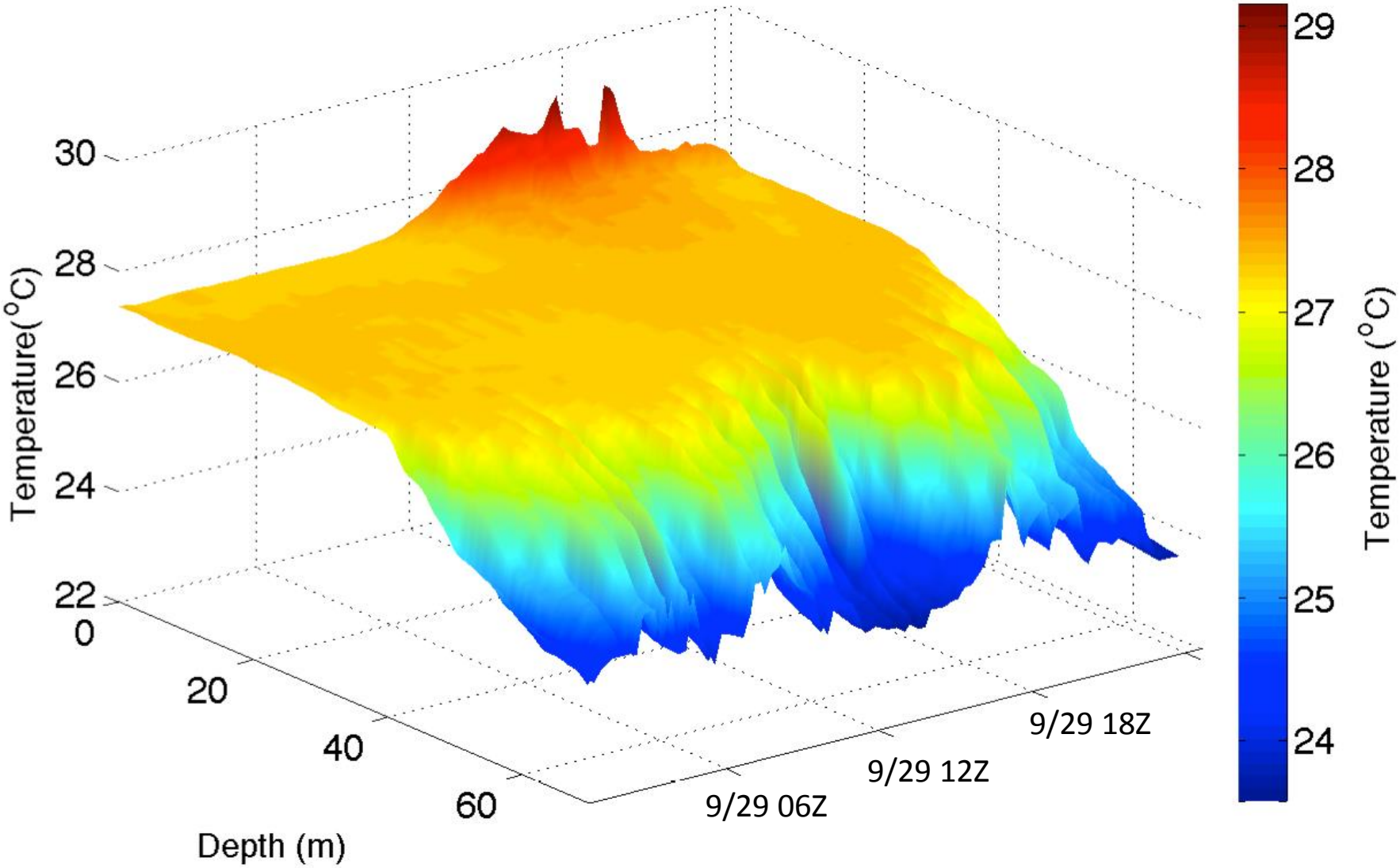
- Observations of turbulence in DW Layers



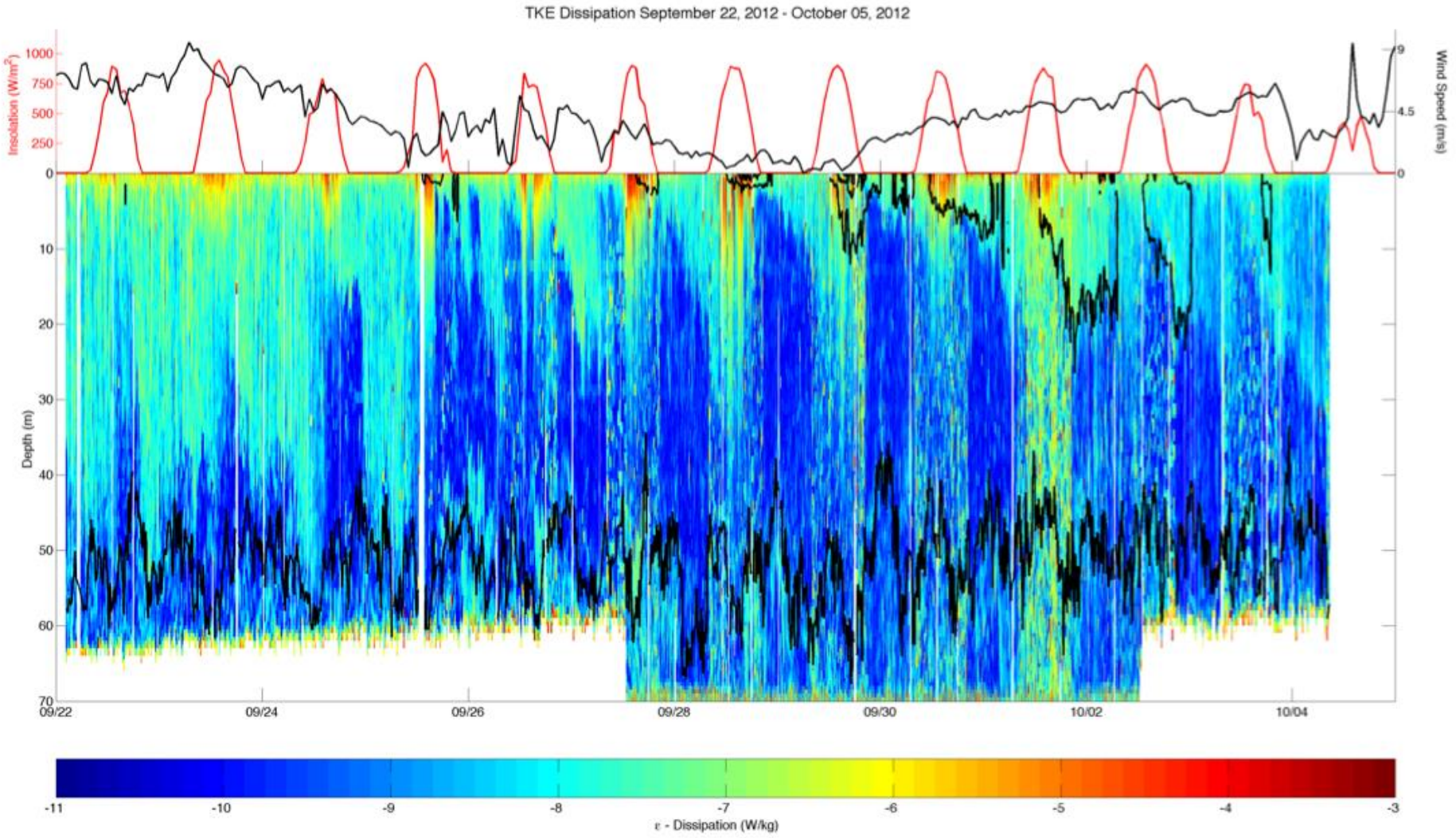
Diurnal Warming from SLOCUM Glider



September 29, 2012 – Temperature

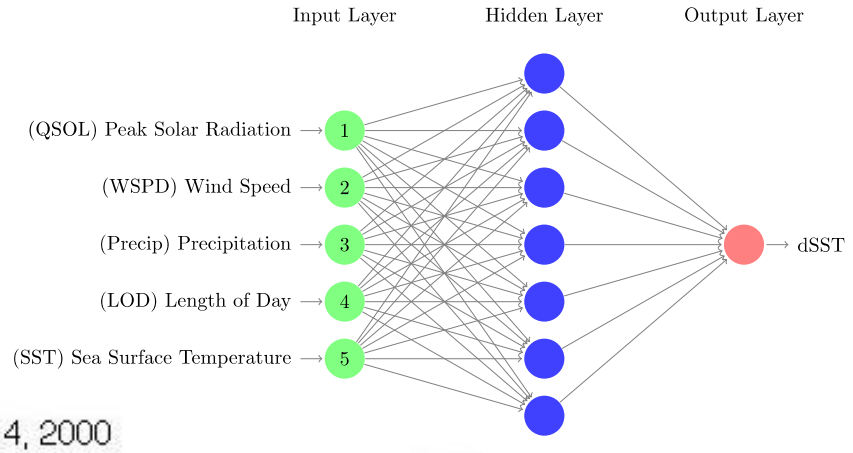


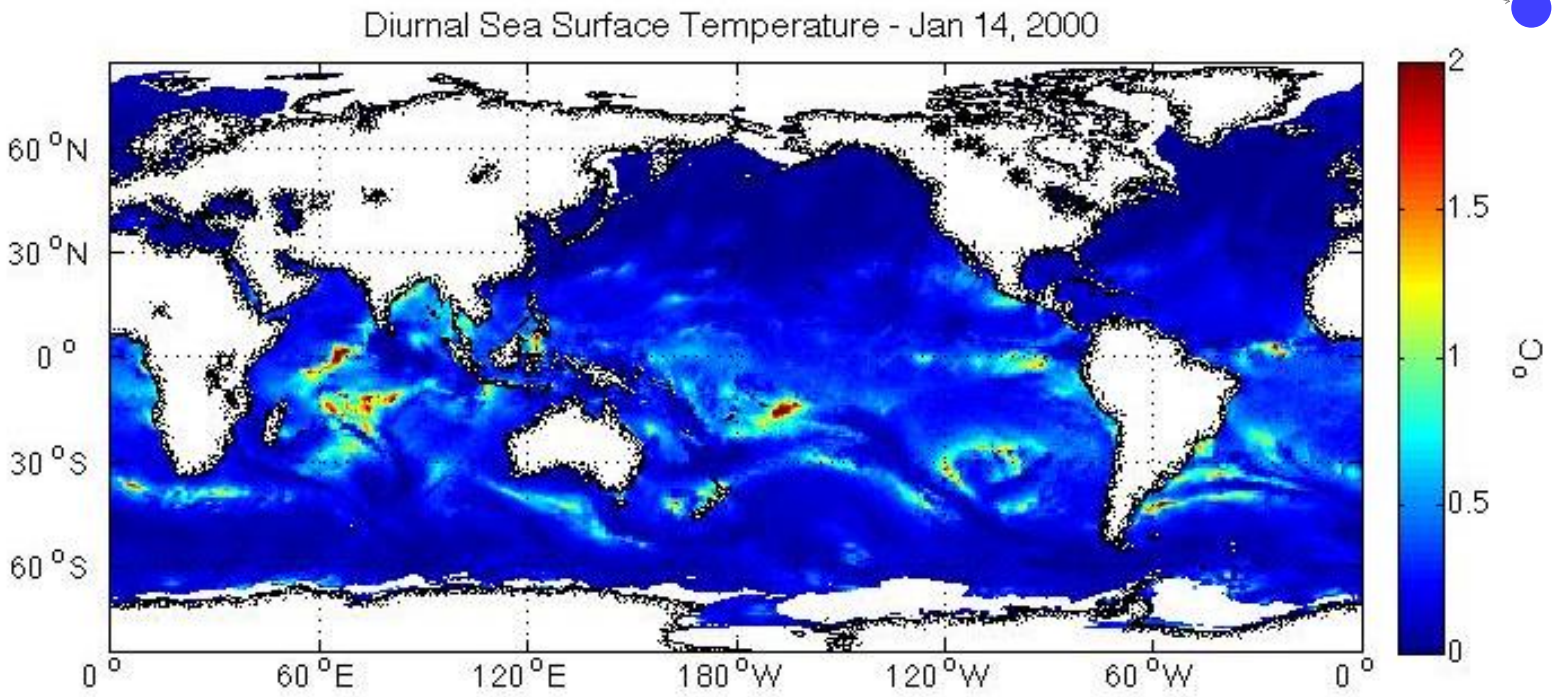
Primary TKE Dissipation Estimates



Updated DW Parameterization

- Based on Clayson & Curry (1996)





Creating a DVSST for Flux Calculations