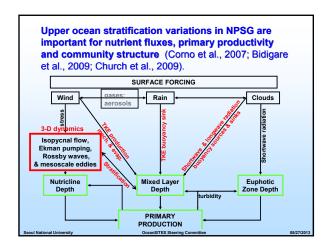




Station ALOHA • Sustained, consistent, collaborative, interdisciplinary science • Creating a long, accurate, and high-resolution surface and upper ocean climatology including atmospheric forcing and carbon variables • Air-sea fluxes, ocean-truthing atmospheric reanalyses, and benchmarking ocean models • Providing essential information on climate change, eddy fluxes and ecosystem dynamics • Impacts as part of a global observational network • Assessing ocean changes (incl. C) and enabling climate predictions • Atmosphere and ocean modeling – Ocean Reference Stations • Institutions & agencies needed to sustain infrastructure • Sustained multi-institutional collaboration (WHOI, UH/SOEST, PMEL) • Collaborative funding, NOAA, NSF and SOEST • OceanSITES data management (setting metadata standards)



Price-Weller-Pinkel (1986) 1-dimensional mixed layer model

- diagnostic ML model Ri #-based vertical diffusive mixing
- Model code improved with 4th order Runge-Kutta integration. Errors in previous public Matlab™ version corrected.
- dt = 900 s, dz = 1 m
- forced with WHOTS 1-minute heat, moisture and momentum fluxes
- T and S initialized with a 36-hr mean of HOT cruise 3-hr interval CTD profiles removes internal tides influence
- u and v initialized with a 36-hr mean of 5-min HOT ADCP profiles reduces initial influence of inertial motion

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OceanSITES Steering Committee

05/27/201

