

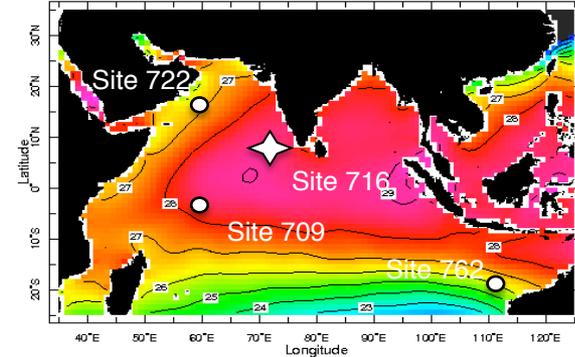
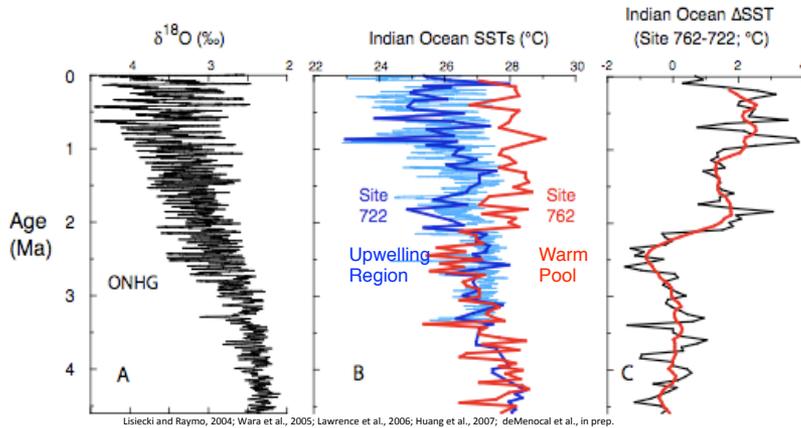
Modern Sea Surface Temperature Gradients Established By Sub-thermocline Cooling



Samuel Phelps¹, Pratigya Polissar², Peter B. deMenocal²
¹Brown University ²Lamont-Doherty Earth Observatory

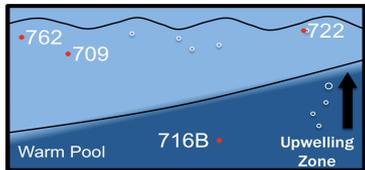
Lamont-Doherty Earth Observatory
 COLUMBIA UNIVERSITY | EARTH INSTITUTE

Context

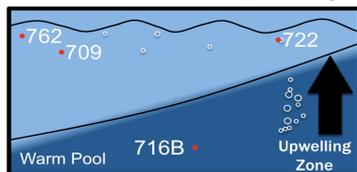


Hypothesis

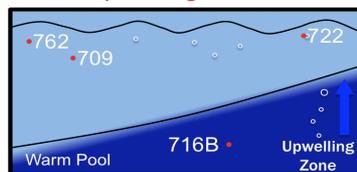
Null Hypothesis: No Change in Upwelling



Alternative Hypothesis: Intensification of Upwelling



Tested Hypothesis: Colder Upwelling Waters



Results

716 Benthic $\delta^{18}\text{O}_c$ vs. 716 Benthic $\delta^{18}\text{O}_c$ Null Hypothesis (No ΔT , Only Ice Volume Effect)

