Modern Sea Surface Temperature Gradients Established By Sub-thermocline Cooling

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Context

- **Indian Ocean SSTs (°C)**
- **Indian Ocean ΔSST (Site 762-722, °C)**

Results

- **716 Benthic δ18Oc vs. 716 Benthic δ18Oc Null Hypothesis (No ΔT, Only Ice Volume Effect)**

Hypothesis

- **Null Hypothesis**: No Change in Upwelling
- **Alternative Hypothesis**: Intensification of Upwelling
- **Tested Hypothesis**: Colder Upwelling Waters

- ~2° Cooling

References

- Lisiecki and Raymo, 2004; Wara et al., 2003; Lawrence et al., 2000; Huang et al., 2007; deMenocal et al., in prep.