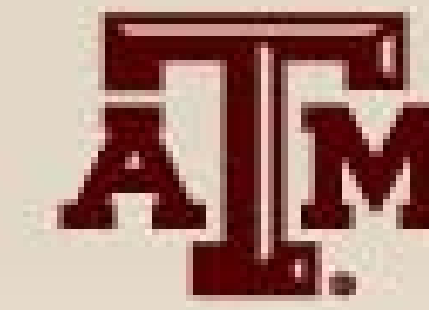




Montague – CTE Scholar Debbie Thomas (2008-2009) College of Geosciences



**CENTER FOR TEACHING
EXCELLENCE**
TEXAS A&M UNIVERSITY

The Role of Oceanic and Atmospheric Circulation in Ancient Intervals of Global Greenhouse Climate

The **Montague-CTE Scholars Program** funded high-impact opportunities for undergraduates to research ancient climate processes in R. Ken Williams '45 Radiogenic Isotope Geosciences Laboratory by analyzing the chemical and isotopic composition of samples recovered by the Integrated Ocean Drilling Program.



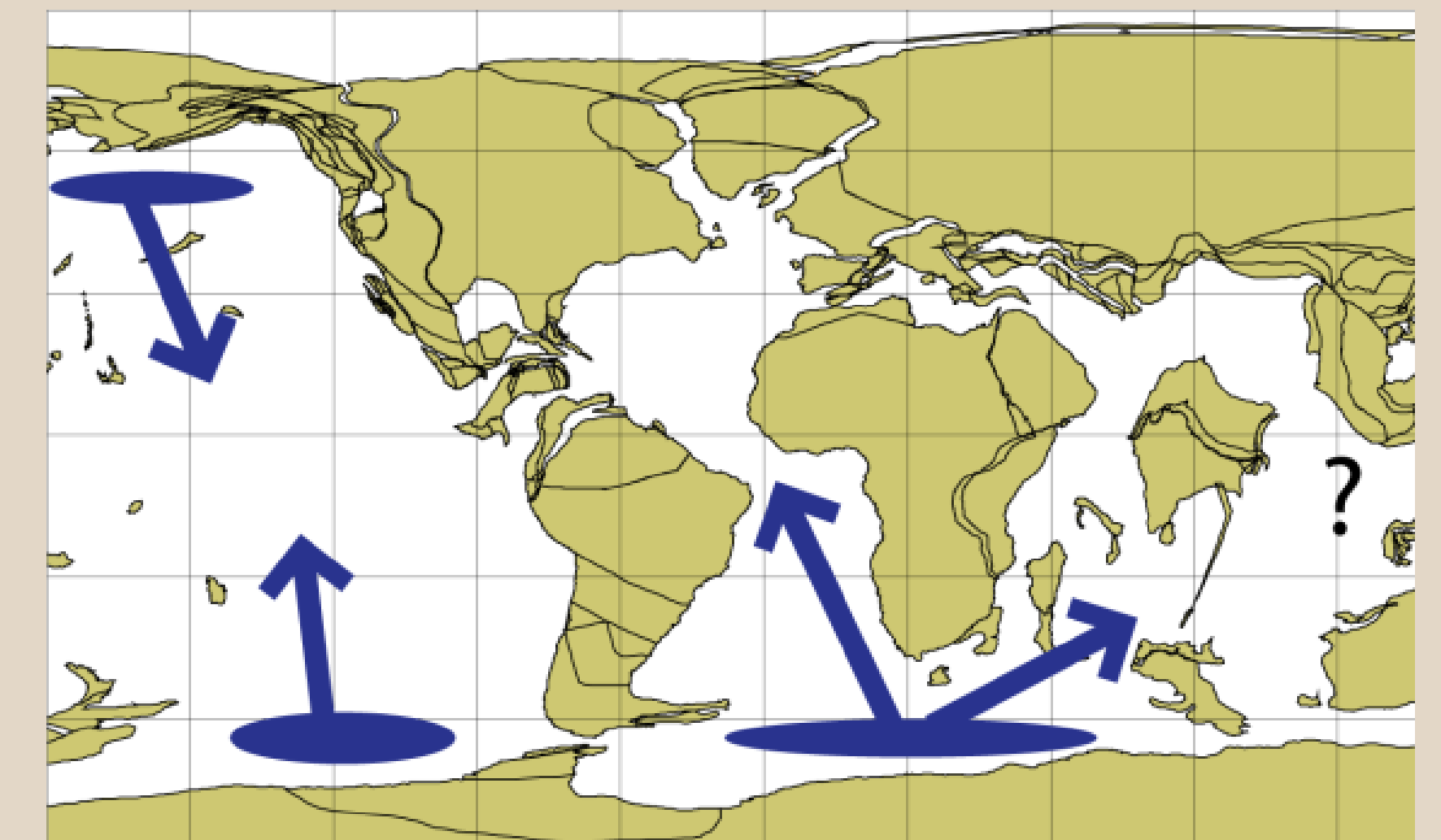
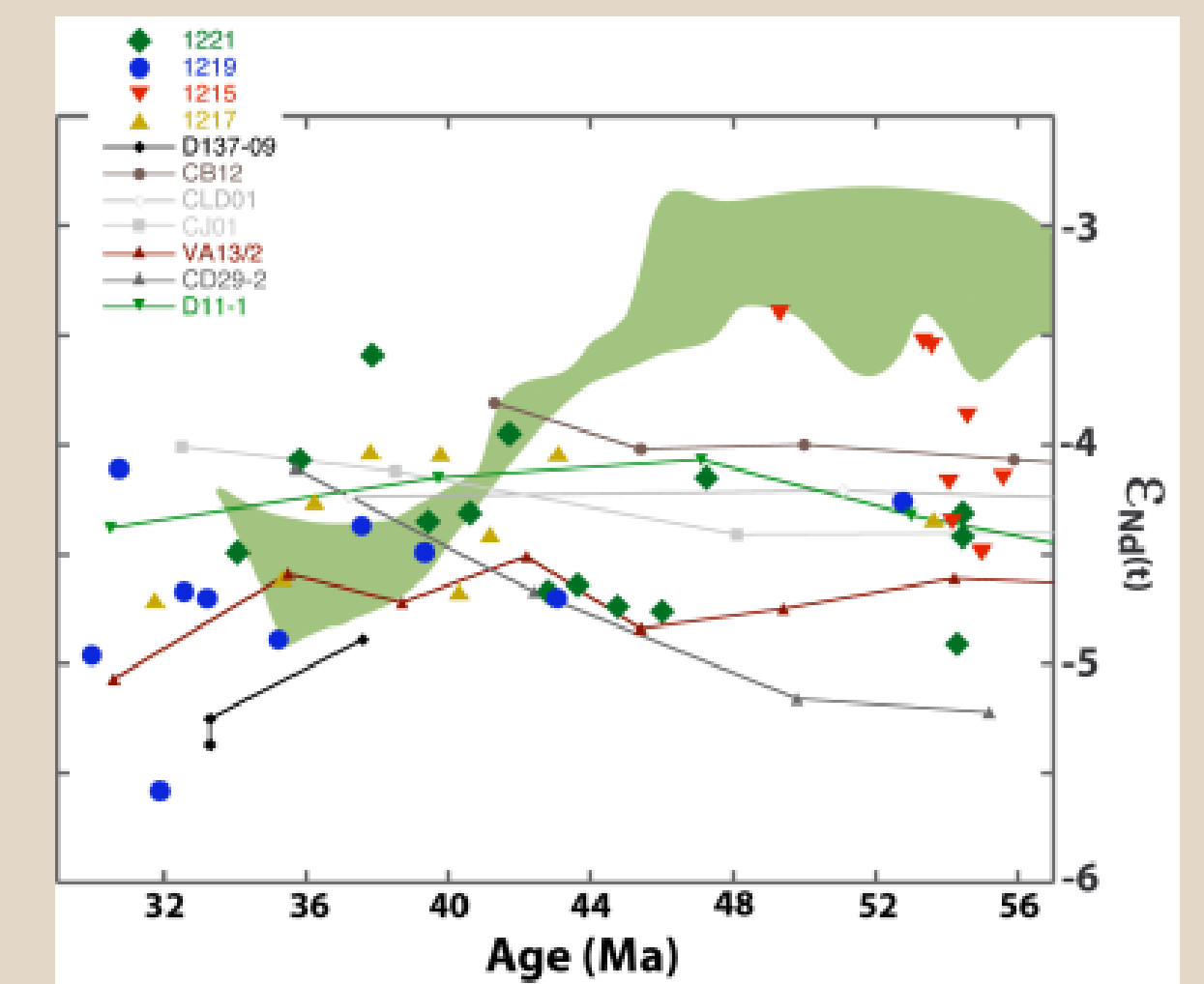
R/V **JOIDES Resolution**, operated by TAMU for the Integrated Ocean Drilling Program, recovers sediments and rock samples from around the globe.



Shan Ahmed and Dillon Amaya taking sediment samples.



Matt Hensley preparing samples for Nd isotope analysis in the clean lab.



These data are used to reconstruct the sinking and flow of deep ocean waters millions of years ago.