



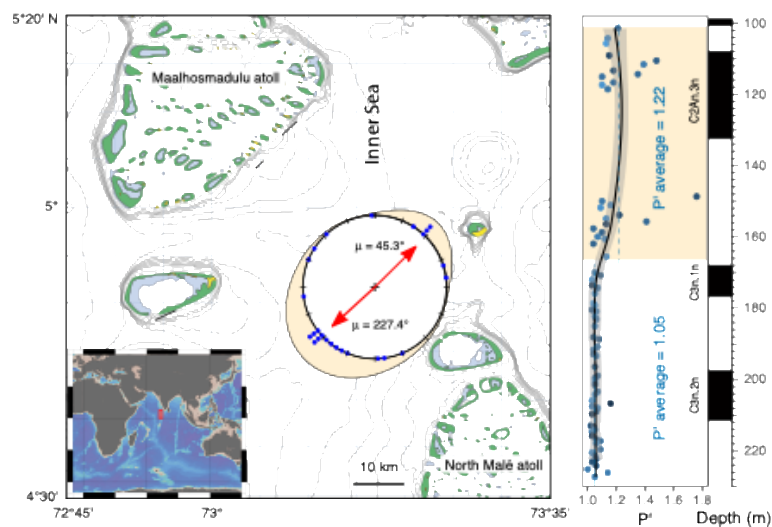
CICLO DI SEMINARI

Giovedì 27/03 ore 14:30

South Asian Monsoon Record from the Late Miocene to Early Pliocene at IODP Site U1467

Luca Lanci

Università di Urbino



We analyzed paleomagnetic and wireline log data from IODP Site U1467 to perform astrochronological dating and investigate the dynamics of monsoon-driven currents. We interpret the resistivity records as proxies for wind-induced bottom currents. Orbital tuning improves the age estimation of drift sequence boundaries DS-4 to DS-8 and reconciles the timing of increased bottom currents, as revealed by AIRM, with that of DS-8. Overall, the record shows that South Asian Monsoon strength fluctuated widely on a Milankovitch timescale, with precession being the dominant forcing mechanism. Precession-paced variability exhibits a distinct increase in amplitude around the Miocene/Pliocene boundary (5.3 Ma), suggesting a significant shift in the South Asian Monsoon system's response to astronomical forcing. The record from Site U1467 reveals a multifaceted behavior of South Asian Monsoon dynamics, highlighting its sensitivity to astronomical forcing across different timescales.