Abbreviations used in this thesis

ASHSW  Arabian Sea High salinity Water (Forms in northern Arabian Sea)

BOB   Bay of Bengal (The main low-salinity water source to the EAS)

EAS   Eastern Arabian Sea (The study region in western Indian Margin)

E-P   Evaporation minus Precipitation (Indicator of moisture balance)

Ka    Thousand Years Before Present (Unit of time in to the past)

Ky    Thousand Years (Time unit used for Quaternary)

LAD   Last Appearance Datum (Time or depth of disappearance of any species from sedimentary record)

LGM   Last Glacial Maximum (Immediate past coldest earth ~18Ka)

LGP   Last Glacial Period (Immediate past cold event spanning 24Ka-11Ka)

Ma    Million Years Before present (Unit of time in to the past)

MIS   Marine Oxygen Isotope Stage (Defines the climate events)

OM    Organic Matter (Sediment component derived largely from the biological activity in the upper ocean)

PCC   Poleward Coastal Current (BOB low-salinity water tongue in EAS)

SMC   Summer monsoon Currents (Flow towards equator & east or BOB)

WMC   Winter Monsoon Currents (Flow towards Arabian Sea from BOB)

YTT   Youngest Toba Tuff (A mega eruption in Indonesia around 72-74 Ka. Believed to have global impact and used as a key-point in late Quaternary chronology)