Jim Hays
Bering Sea high-resolution paleoceanographic record

This proposal seeks support for the generation of a high resolution paleoceanographic record of a Holocene and late Pleistocene section of Bering Sea core RC14 126, located at 60° North and173° 21´ E. Age control will be provided through correlation of radiolarian time series between RC14 126 and a Russian core GC 11 raised from the Bowers Bank to the south (within the Bering Sea) that has numerous C^{14} dates and a high resolution (2.5cm sample spacing) delta O^{18} record. To interpolate between carbon 14 dates this oxygen isotope record of GC 11 is correlated with the oxygen isotope record of RC11 – 120, a component of the SPECMAP time scale. Using this time scale the 1600cm length of RC14-126 spans 28000 years (average sedimentation rate 57cm/1000yrs).