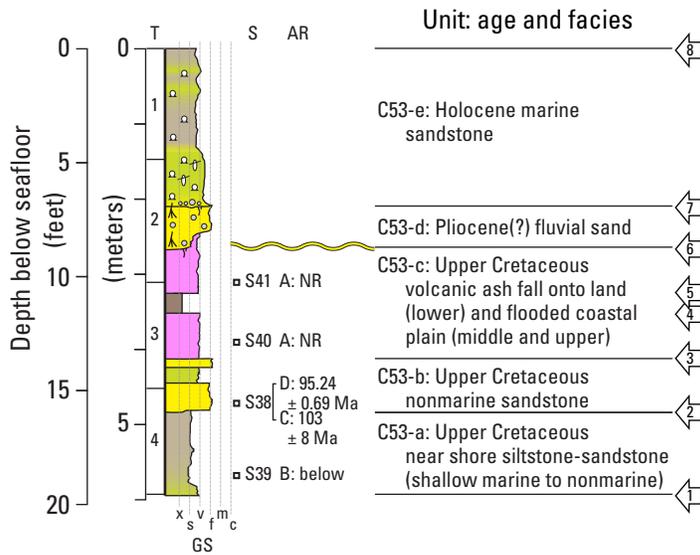


Vibracore D185AR-53

Location: 70.54833° N; 165.91333° W

Water depth: 47.0 m (154.2 ft)



Sample S39 biostratigraphy: palynomorphs are long-ranging and not age-diagnostic; marine dinocysts indicate middle to late Coniacian age and marine deposition close to wet lowlands; in-situ kerogen has TAI of 2- (VR ~0.2 - 0.4%); contains reworked pollen and dinocysts of Early Jurassic age; reworked kerogen has TAI of 4- (VR ~1.6%)

EXPLANATION

- Tephra
- Tuffaceous mudstone to silty mudstone
- Mudstone
- Siltstone to silty mudstone
- Sandstone, silty to muddy
- Sandstone
- Conglomerate

T - Core storage tube number (see core photos)
 S - Sample spots
 AR - Analytical results
 □ S25 - Sample spot and number
 GS - Grain size; x, clay; s, silt; v, very fine sand; f, fine sand; m, medium sand; c, coarse sand

A: ⁴⁰Ar/³⁹Ar age posted in million years with ± one standard deviation
 A: NR - No recovery of datable mineral
 B: Biostratigraphic age
 B: ND - No age determination
 C: Apatite fission track cooling age posted in million years with ± two standard errors
 D: Detrital zircon U/Pb age posted in million years with ± one standard deviation
 T: Total organic carbon (weight percent)

- Pebble
- Pebble lag
- Concretions
- ~ Flasers or clay laminae
- ∞ Convolute bedding
- ≡ Plane parallel laminae
- ⋈ Trough cross laminae
- ⋈ Trough cross bedding
- ⋈ Root traces
- ⋈ Burrows
- ⋈ Trace fossils
- Shells or shell fragments



Figure 11. Graphic section and composite photograph of U.S. Geological Survey vibracore C53, Chukchi Shelf, Alaska. Top of Upper Cretaceous strata indicated by yellow and black unconformity symbol. Numbered arrows correlate spots in graphic section to correlative spots in core photograph. Cores are stored in plexiglass half-tubes. See figure 1 for core location. Note that explanation applies to all related figures in this report. Scales on photograph are in centimeters. ft, feet; m, meters; ⁴⁰Ar/³⁹Ar, argon-40/argon-39.