

## Epifauna\_masterfile\_PacMARS\_sub4Jun13.xlsx

### Column Headers

Cruise ID	Cruise identification number as reported by investigator, report or publication
StationNum	Station number as reported by investigator, report or publication
StationNme	Station name as reported by investigator, report or publication
DataDate	Date as YYYYMMDD
DataYear	Year as YYYY
DataTime	Time of day using 24 hour clock
TimeZone	Time zone used onboard for data recording during sampling. UTC, MST, AKST etc., blank where not known
UTCOffset	Number of hours from UTC, + eastward or – westward, blank where time zone not known
Latitude	Latitude in decimal degrees, positive values only (degrees North)
Longitude	Longitude in decimal degrees, negative values are degrees West, positive values (very few) are degrees East
Depth	Water depth in meters
Gear	Trawl gear used for sampling as reported by investigator, report or publication
GearSize	Categorical size (large >12 m net with, small <4 m net width)
MeshNet	Net mesh size in body of trawl net in millimeters
MeshCodend	Net mesh size in cod end of trawl net in millimeters
TrawTime	Duration of trawl on seafloor in minutes
HeadRope	Length of head rope of trawl net in meters
FootRope	Length of foot rope in meters
NetWidth	Net width while the net is fishing in meters
AreaFished	Area trawled in square meters, calculated from distance fished times net width or as provided
DistFished	Distance fished at seafloor in kilometers
TowSpeed	Speed at which the net is towed in knots
Contact	Name of person/people responsible for data set
Affiliatio	Institutional affiliation of contact person/people; or retired where no longer active
Abundance	Total number of individuals of epifaunal invertebrates (without fishes) in individuals per unit area
UnitAbun	Unit for the abundance value as individuals per unit area
Abund1000	Abundance standardized to the number of individuals per 1000 square meters
Biomass	Total weight of individuals of epifaunal invertebrates (without fishes) in haul per unit area as provided by data source/provider
UnitBiom	Unit for the biomass value as weight per unit area as provided by data source/provider
BioKg1000	Biomass standardized to kilograms wet weight per 1000 square meters
TaxonNum	Number of taxa as provided by data provider/archive (may include some infaunal taxa, eggs, fragments etc.)

TaxonNumE	Number of taxa for epifauna only, i.e. without obvious infaunal taxa such as clams, infaunal polychaetes and amphipods which occasionally get caught in trawls. Comparability of this estimate across data sets is biased by varying levels of taxonomic resolution in the source data, and by area trawled and mesh size.
Comments	Various comments useful for the understanding and interpretation of a given line in the data sets

### **Related publications and reports**

- Ambrose WG Jr, Clough LM, Tilney PR, Beer L (2001) Role of echinoderms in benthic remineralization in the Chukchi Sea. *Mar Biol* 139:937-949
- Blanchard AL, Parris CL, Knowlton AL, Wade NR (2013) Benthic ecology of the northeastern Chukchi Sea. Part II. Spatial variation of megafaunal community structure, 2009-2010. *Cont Shelf Res*, in press
- Bluhm BA, MacDonald IR, Debenham C, Iken K (2005). Macro- and megabenthic communities in the high Arctic Canada Basin: initial findings. *Polar Biol* 28: 218-231
- Bluhm BA, Iken K, Mincks Hardy S, Sirenko, Holladay BA (2009) Community structure of epibenthic megafauna in the Chukchi Sea. *Aquat Biol* 7: 269-293
- Carey AG Jr (1977) Summarization of existing literature and unpublished data on the distribution, abundance, and life histories of benthic organisms (Beaufort Sea). Outer Continental Shelf Energy Program Final report, Contract No 03-5-022-68, Task Order 4. Volumes I- IV
- Feder HM, Jewett SC, Blanchard A (2005) Southeastern Chukchi Sea (Alaska) epibenthos. *Polar Biol* 28: 402–421
- Frost KJ, Lowry LF (1983) Demersal fishes and invertebrates trawled in the northeastern Chukchi and western Beaufort Seas, 1976-77. NOAA Technical Report NMFS SSRF-764
- Hamazaki T, Fair L, Watson L, Brennan E (2005) Analyses of Bering Sea bottom-trawl surveys in Norton Sound: absence of regime shift effect on epifauna and demersal fish. *ICES J Mar Sci* 62:1597-1602
- Jewett S, Hamazaki T, Danielson S, Weingartner T (2008) Retrospective analyses of Norton Sound benthic fauna in response to climate change. North Pacific Research Board Project Final Report 604, 44 p
- Konar B, Ravelo AM (2013) Epibenthic communities in the Alaskan Beaufort Sea continental shelf. Final Report. OCS Study BOEM 2013-0xx, University of Alaska Fairbanks and USDOJ, BOEM Alaska OCS Region, in press
- Logerwell E, Rand K, Weingartner TJ (2011) Oceanographic characteristics of the habitat of benthic fish and invertebrates in the Chukchi Sea. *Polar Biol* 34:1783-1796
- MacDonald IR, Bluhm BA, Iken K, Gagaev S, Strong A (2010) Benthic macrofaunal and megafaunal assemblages in the Arctic deep-sea Canada Basin. *Deep-Sea Res II* 57:136-152
- Rand KM, Logerwell EA (2011) The first demersal trawl survey of benthic fish and invertebrates in the Beaufort Sea since the late 1970s. *Polar Biol* 34:475-488
- Ravelo AM, Konar BH, Trefry JH, Grebmeier JM (in revision) Epibenthic community variability in the northeastern Chukchi Sea continental shelf. *Deep-Sea Res II*

