

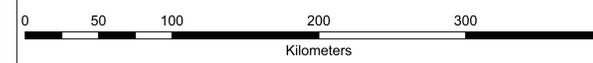
LEGEND

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|---|--|
| <ul style="list-style-type: none"> Well Chukchi Sea sedimentary basins Chukchi Sea uplifts Early Cretaceous sediments Late Cretaceous sediments Palaeogene-Quaternary sediments Neogene-Quaternary sediments | <ul style="list-style-type: none"> Water depth (m) Basin boundary Inferred basin boundary Outline of North Wrangel (Elesmerian) Basin Axis of Barrow Arch Axis of inferred continuation of Barrow Arch Main thrust front of Wrangel-Herald Thrust Thrust Normal fault Inferred normal fault Transform fault zone Strike-slip fault Fault undefined Fault zone Suture Inferred suture Rift axis Rift margin of Arctic-Alaska Plate Limit of Cretaceous magmatism Margin of Colville hydrocarbon basin |
| <p>Igneous & Metamorphic Rocks</p> <ul style="list-style-type: none"> Volcanics (Cz) Plateau basalts (Cz) Okhotsk Chukchi Volcanic Belt (K) Volcanics (J3-K1) Granite (mainly K, some Q) Intrusive igneous (T-K) Intrusive igneous (mid-Pz) Intrusive igneous (Pz/Precambrian) Amphibolite & greenschist facies metamorphic rocks Gneiss Precambrian basement Oceanic rocks (T-J) Ophiolite Subduction zone oceanics | |

- Basement sedimentary rocks (Age, Lithology, Affinity)**
- O-C1, Passive margin deposits, Bennet-Barrovia Block
 - O-D1, Clastic-carbonate deposits, Bennet-Barrovia Block
 - O-D1, Shelf carbonates, Bennet-Barrovia Block
 - O-D, ?shelf carbonate & clastics, Bennet-Barrovia Block
 - Precambrian-Pz, Passive margin deposits, Bennet-Barrovia Block
 - O-D1, Passive margin deposits, Franklinian
 - Pz, Passive margin deposits, North American Craton
 - Pz, Clastic-carbonate, Yarakvaam Uplift
 - D-C1, Clastic-carbonate, Mid-Pz back-arc basin
 - T, Mainly clastics, Chukotka Fold System
 - T-J, Volcaniclastics, Rifting
 - J3-K1, Volcaniclastics, Peku'ney Island Arc
 - J2, Clastic deposits
 - K1, Volcaniclastics, Koryak-Kamchatka Fold System
 - K1, Molasse, Volcanic Arc

Map compiled from many sources including: Petrovskaya et al. 2008; Wavetech Geo, 2006; Sherwood 1992 & 2006; Natafin, 1999; Natafin et al., 1999

ENCLOSURE 1
CHUKCHI SEA:
REGIONAL STRUCTURE
AND LOCATION MAP



Pulkovo_1995_3_Degree_GK_CM_180E
 Projection: Gauss Kruger
 False_Easting: 500000.000000
 False_Northing: 0.000000
 Central_Meridian: 180.000000
 Scale_Factor: 1.000000
 Latitude_Of_Origin: 0.000000
 Linear Unit: Meter

GCS_Pulkovo_1995
 Datum: D_Pulkovo_1995