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chapter 7 sedimentation in the beaufort sea a synthesis May 02 2024

abstract results of past and continuing studies on grain size distributions clay mineralogy suspended loads and geochemistry of bottom sediments and interstitial waters of the beaufort sea are presented generally bottom sediments are extremely poorly sorted muds or sandy muds

beaufort sea wikipedia Apr 01 2024

the beaufort sea *' b oʊ f ə r t f r e n c h m e r d e b e a u f o r t* is a marginal sea of the arctic ocean located north of the northwest territories yukon and alaska and west of the canadian arctic archipelago the sea is named after sir francis beaufort a hydrographer

a compilation of the silt and clay mineralogy from coastal Feb 29 2024

pyrophyllite clay is identified throughout the beaufort sea caa svalbard and franz josef land source regions in variable concentrations fig 6 the highest pyrophyllite concentration is identified in the deltaic sediments of the mackenzie river reaching 17 of the clay mineral fraction

aspects of size distributions clay mineralogy a sathy *Jan 30 2024*

aspects of size distributions clay mineralogy and geochemistry of sediments of the beaufort sea and adjacent deltas north arctic alaska a sathy naidu l h larsen t c mowatt m d sweeney and h v weiss institute of marine science university of alaska fairbanks alaska 99701

geology characterization and properties of beaufort sea *Dec 29 2023*

this paper summarizes the geology of the beaufort sea clays and the results of detailed site characterization studies required for design and construction in situ characterization primarily

sedimentation in the beaufort sea a synthesis springerlink *Nov 27 2023*

results of past and continuing studies on grain size distributions clay mineralogy suspended loads and geochemistry of bottom sediments and interstitial waters of the beaufort sea are presented generally bottom sediments are extremely poorly sorted muds or sandy

clay and ice a record of researchgate *Oct 27 2023*

the determination of the ssl for a typical beaufort sea sand ersak sand used to construct islands is shown on fig

5 the results are from static liquefaction triaxial tests on loose

sediment provenance changes in the western arctic ocean in Sep 25 2023

the em modeling analysis of grain size data indicates that sea ice and nepheloid current are factors controlling sediment redistribution in the chukchi alaskan margin whereas sea ice and the mackenzie river sediment plume influenced sedimentation in the canadian beaufort margin

clay mineral composition and geologic significance of some Aug 25 2023

abstract the less than 2 μ fractions of bottom sediments from the beaufort sea and arctic ocean were analysed for clay mineral composition in all of these high latitude sediments illite is predominant chlorite and kaolinite occur in significant amounts and smectite is least abundant this occurrence of kaolinite is noteworthy

effect of heat treatment on strength of clays journal of Jul 24 2023

results indicate that the clayey sediments from western beaufort sea have to be heat treated to about 600 c to produce granular material for use as a fill or shore protection material for artificial islands

cyclic direct simple shear testing of a beaufort sea clay *Jun 22 2023*

cyclic direct simple shear testing of a beaufort sea clay authors w o mccarron j c lawrence r j werner j t germaine and d f cauble authors info affiliations publication canadian geotechnical journal august 1995 doi org 10 1139 t95 061 get access abstract

independence of geostatic stress from overconsolidation in May 22 2023

abstract since 1982 extensive use has been made of the self bored pressuremeter in arctic offshore site investigations one finding of this work is that the in situ geostatic stress ratio k_0 of beaufort sea clays is apparently unrelated to the overconsolidation ratio OCR

geology characterization and properties of beaufort sea *Apr 20 2023*

geology characterization and properties of beaufort sea clays semantic scholar doi 10 1201 noe0415426916 ch7 corpus id 131929718

clay mineral composition and geologic significance of some Mar 20 2023

journal of sedimentary research abstract the less than 2 μ fractions of bottom sediments from the beaufort sea and arctic ocean were analysed for clay mineral composition in all of these high latitude sediments illite is predominant chlorite and kaolinite occur in significant amounts and smectite is least abundant

comparing sea ice sediment load with beaufort sea shelf Feb 16 2023

modern dispersal of sea ice rafted debris is important for the arctic ocean sediment budget from sources to sinks sediment entrainment occurs mainly through the action of small ice crystals frazil attaching to sedimentary particles in shallow water a mechanism that could be selective

seasonal compressive strength of beaufort sea ice sheets Jan 18 2023

1 citations abstract an analysis has been performed to calculate the uniaxial compressive strength of first year sea ice sheets in the canadian beaufort sea the analysis makes use of a recently developed model by the authors it was found that the ice sheet reaches a maximum strength in march april of each year

some aspects of the behavior of beaufort sea clays *Dec 17 2022*

some aspects of the behavior of beaufort sea clays by mg jefferies jp ruffell jha crooks jmo hughes doi doi org 10 1520 stp36354s page count 28 published 1985 share cite permissions

wintertime variability of the beaufort gyre in the arctic Nov 15 2022

our analysis indicated that 1 sea ice motion driven by wind fields acts as a driving force for the bg when sea ice motion was intensified during winter and 2 sea ice motion can also act as an inhibiting force for the bg when sea ice motion is weakened during winter

comparing sea ice sediment load with beaufort sea shelf Oct 15 2022

the principal source for entrainment of ird by suspension freezing into the beaufort gyre western arcti comparing sea ice sediment load with beaufort sea shelf deposits is entrainment selective u s geological survey

clay mineral composition of beaufort sea sediments arctic *Sep 13*

2022

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