

Sedimentologist



Job Description:

Describes sediments in cores, noting sediment type (clay, sand, volcanic ash, etc.), thickness of sediment layers, types of fossils, and other physical features to interpret the processes leading to sediment deposition.

Degree: Geological Sciences, Environmental Science

Courses: Earth Science, Biology, Chemistry, Physics

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Paleontologist



Job Description:

Analyzes fossils in sediment cores to help determine the ages of sediment layers. Characterizes the environmental conditions during sediment deposition based on fossil assemblages present in sediments.

Degree: Geological Sciences, Biology

Courses: Biology, Earth Science, Chemistry, Physics

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Geochemist



Job Description:

Performs chemical analyses of sediments to test for the presence of hydrocarbons for environmental and safety concerns. Other analyses include alkalinity, salinity, and ion concentrations to characterize environmental conditions of sediment deposition.

Degree: Geological Sciences, Chemistry

Courses: Biology, Earth Science, Chemistry, Physics

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Paleomagnetist



Job Description:

Measures the orientation of magnetic-bearing minerals in sediments using an on board magnetometer. Compares magnetic information preserved in sediment cores to long-term records of the Earth's paleo-magnetic field to help determine the age of sediments.

Degree: Geological Sciences

Courses: Earth Science, Biology, Chemistry, Physics

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Stratigraphic Correlator



Job Description:

Uses physical and magnetic properties of sediments to align sedimentary layers between multiple drill holes at each sampling site. Creates an accurate depth scale and ensures there is a complete record of sediments collected at each site.

Degree: Geological Sciences

Courses: Earth Science, Biology, Chemistry, Physics

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Engineer



Job Description:

Operates, maintains, and repairs propulsion engines, boilers, generators, water purification system, waste management system, and other machinery. Supervises crew members responsible for repairing machinery.

Degree: Marine, Electrical, or Mechanical Engineering

Courses: Math, Science, Engineering Design

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Geophysicist



Job Description:

Measures the physical properties of rocks and sediments. Interprets physical property data to gain a better understanding of the composition, formation, tectonic and environmental conditions during sediment deposition.

Degree: Geological Sciences

Courses: Biology, Earth Science, Chemistry, Physics

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Lab Specialist



Job Description:

Helps process sediment cores as they come onto the ship, runs lab equipment in the chemistry, core description, geophysics, paleomagnetics, microbiology, paleontology, and X-ray labs. Assists scientists with sample analysis.

Degree: Geological Sciences, Oceanography, Biology, Chemistry

Courses: Biology, Earth Science, Marine Science, Chemistry

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Electrician



Job Description:

Installs, tests, repairs, and maintains electrical wiring and equipment on the ship. Inspects electrical systems and diagnoses malfunctions, lays out electrical wiring for equipment and fixtures.

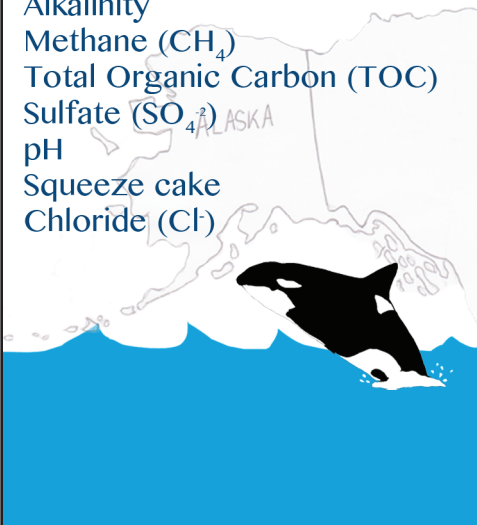
Degree: Electrical Technology

Courses: Electronics, Math, Electrical Design

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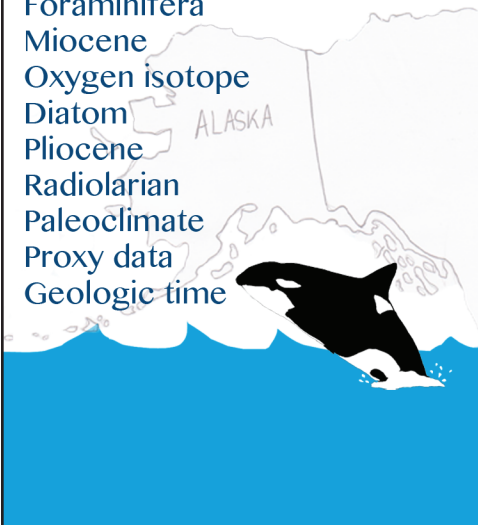
Key Words

Ion
Pore water
Alkalinity
Methane (CH₄)
Total Organic Carbon (TOC)
Sulfate (SO₄²⁻)
pH
Squeeze cake
Chloride (Cl⁻)



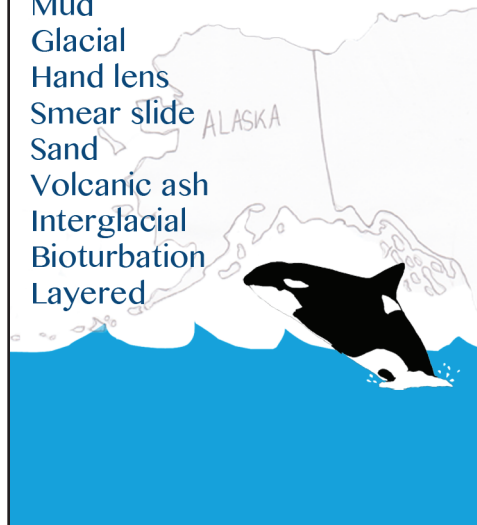
Key Words

Pleistocene
Microfossil
Foraminifera
Miocene
Oxygen isotope
Diatom
Pliocene
Radiolarian
Paleoclimate
Proxy data
Geologic time



Key Words

Grain size
Ice Rafted Debris (IRD)
Mud
Glacial
Hand lens
Smear slide
Sand
Volcanic ash
Interglacial
Bioturbation
Layered



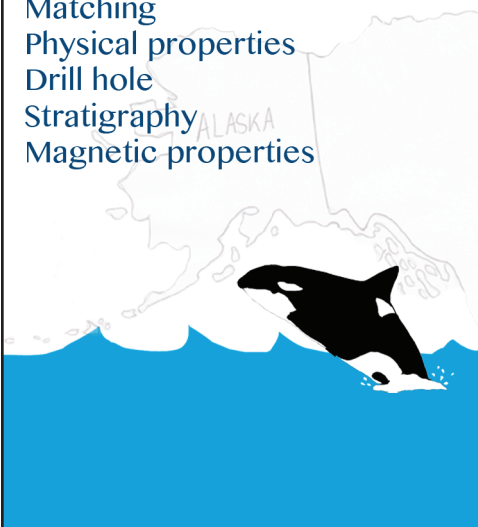
Key Words

Electric circuit
Design
Electronics
Mechanical
Problem-solve
Repair
Maintenance
Technology



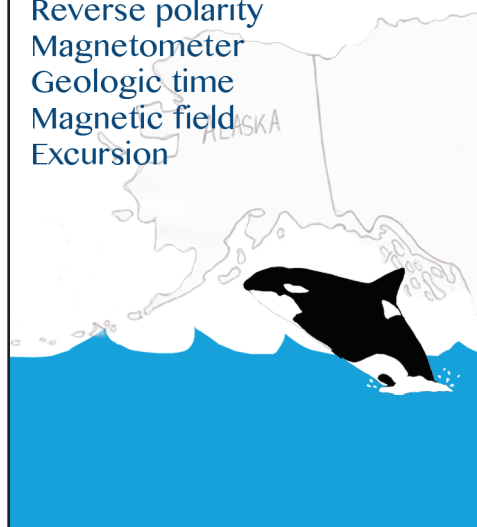
Key Words

Sedimentary layers
Depth scale
Matching
Physical properties
Drill hole
Stratigraphy
Magnetic properties



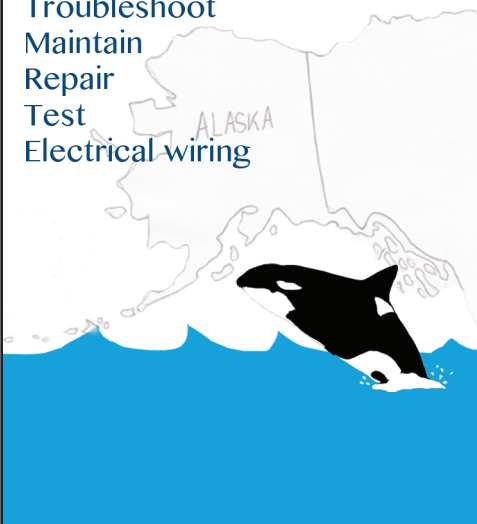
Key Words

Normal polarity
Paleomagnetism
Reverse polarity
Magnetometer
Geologic time
Magnetic field
Excursion



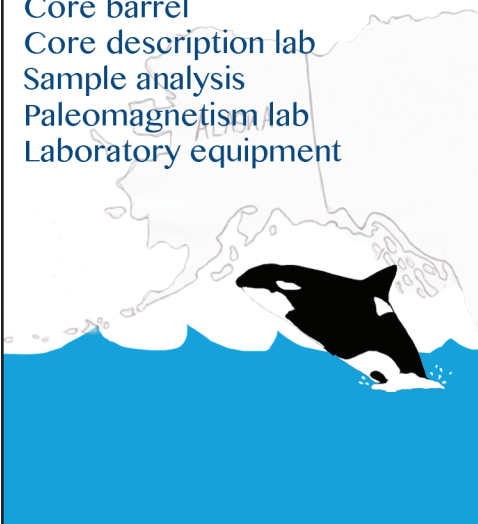
Key Words

Electrical circuit
Light fixture
Troubleshoot
Maintain
Repair
Test
Electrical wiring



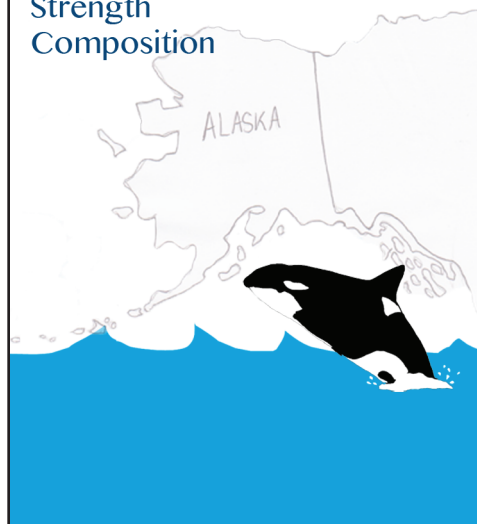
Key Words

Catwalk
Chemistry lab
Core barrel
Core description lab
Sample analysis
Paleomagnetism lab
Laboratory equipment



Key Words

Density
Magnetic susceptibility
Strength
Composition



Instrumentation Specialist

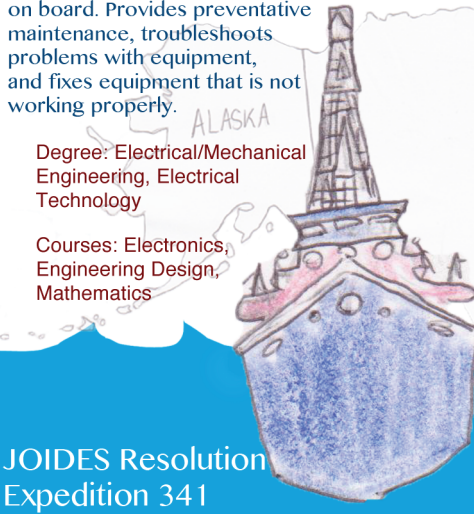


Job Description:
Maintains electrical and mechanical equipment on board. Provides preventative maintenance, troubleshoots problems with equipment, and fixes equipment that is not working properly.

Degree: Electrical/Mechanical Engineering, Electrical Technology

Courses: Electronics, Engineering Design, Mathematics

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Chief Cook

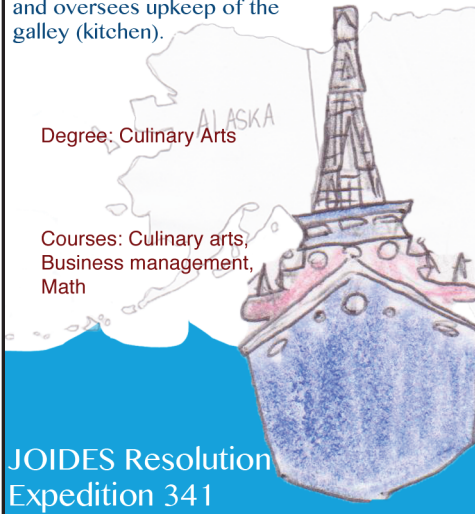


Job Description:
Manages the kitchen and cooking staff, orders and maintains inventory of food supplies, plans meals, cooks, and oversees upkeep of the galley (kitchen).

Degree: Culinary Arts

Courses: Culinary arts, Business management, Math

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Tool Pusher

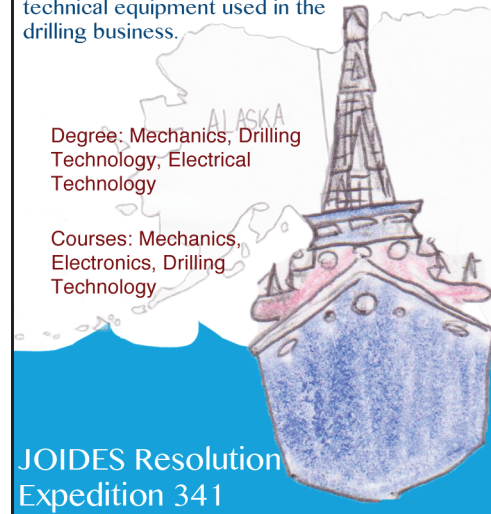


Job Description:
Oversees the mechanics of the drilling process, repairs and builds tools necessary for each job, and stays educated on new technical equipment used in the drilling business.

Degree: Mechanics, Drilling Technology, Electrical Technology

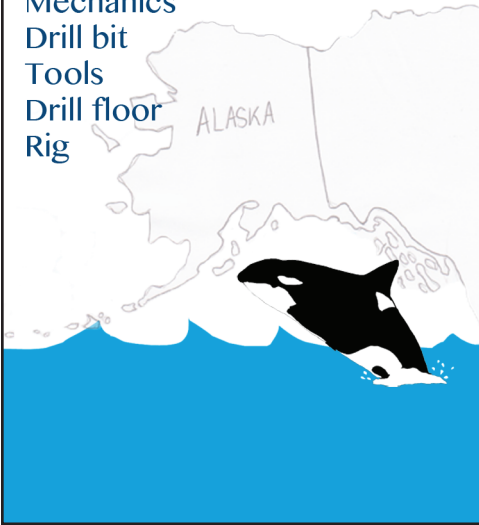
Courses: Mechanics, Electronics, Drilling Technology

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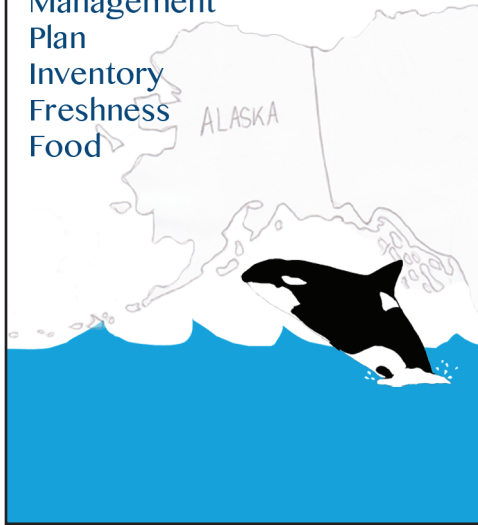
Key Words

Core barrel
Drill string
Mechanics
Drill bit
Tools
Drill floor
Rig



Key Words

Galley
Menu
Management
Plan
Inventory
Freshness
Food

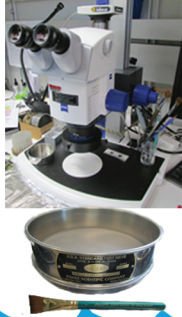


Key Words

Electric circuit
Design
Electronics
Mechanical
Problem-solve
Repair
Maintenance
Technology



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Universitetet i Tromsø,
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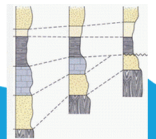
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Juliane Müller
Alfred Wegener Institute,
Germany



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Alan Mix
Oregon State University,
USA



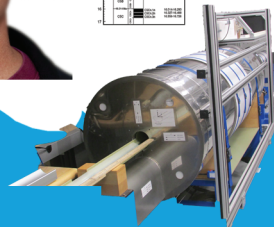
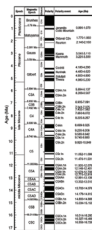
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Christian März
Newcastle University,
United Kingdom



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Joe Stoner
Oregon State University,
USA



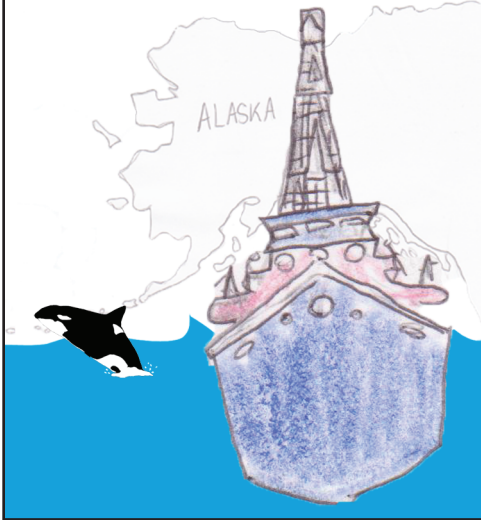
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Lindsay Worthington
University of New Mexico,
USA

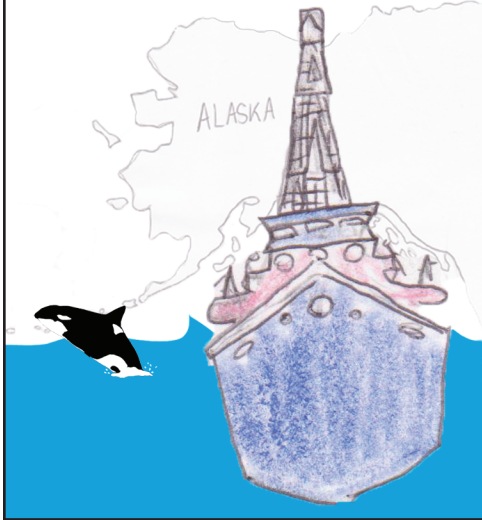


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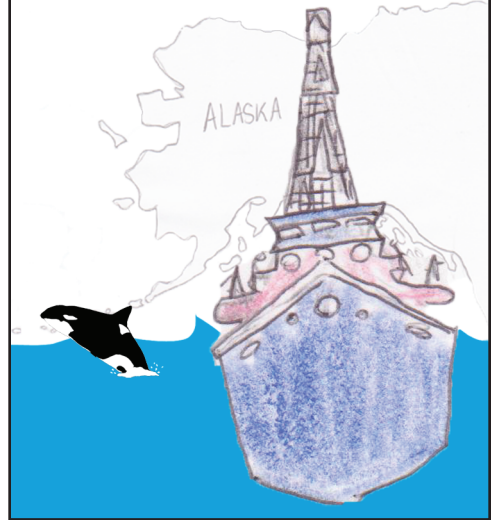
S. Alaska Margin
Tectonics & Global
Climate



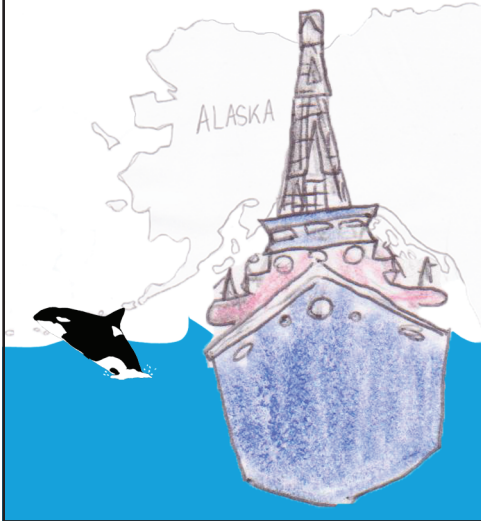
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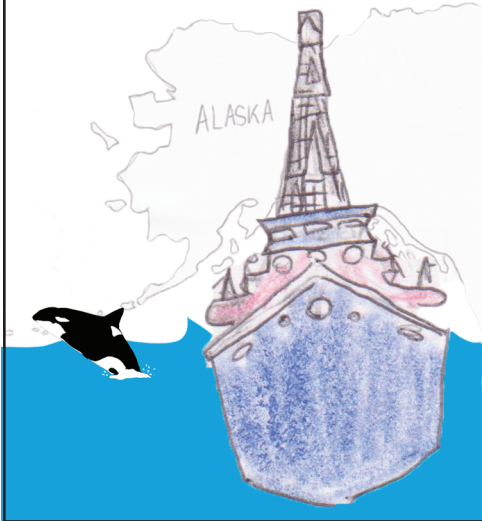
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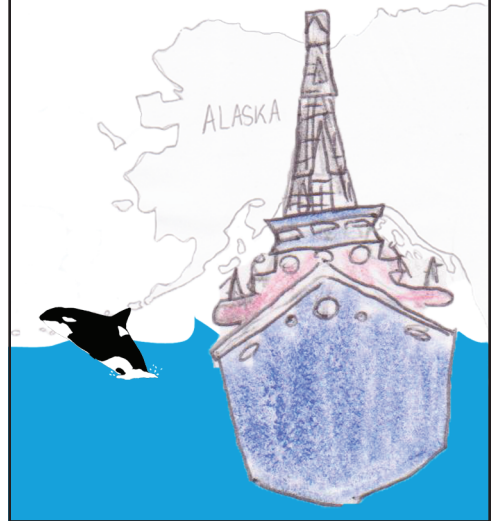
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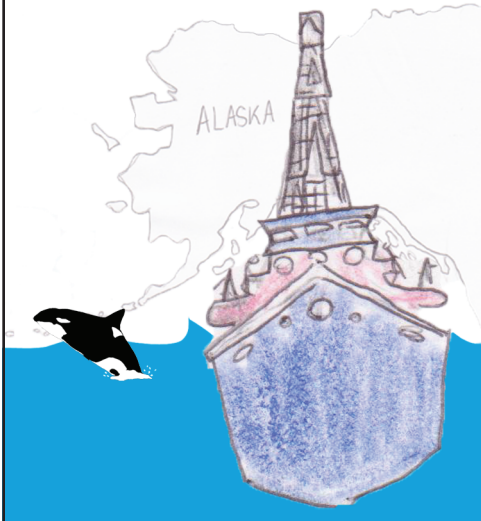
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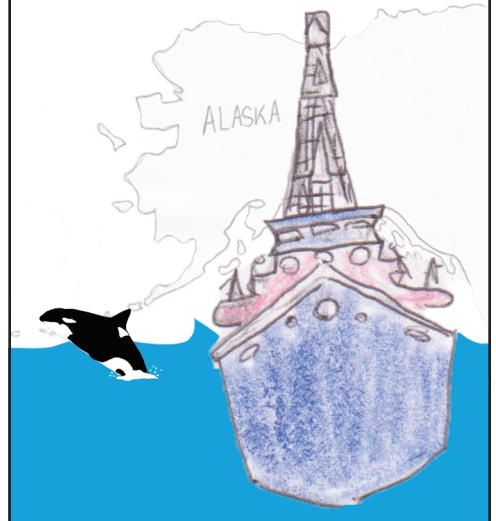
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Charlie Winn
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Heather Barnes
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Chris Moy
University of Otago,
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Etienne Claassen
South Africa



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Robert Guthrie
SIEM
USA



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Taylor McKirdy
Entier
Scotland



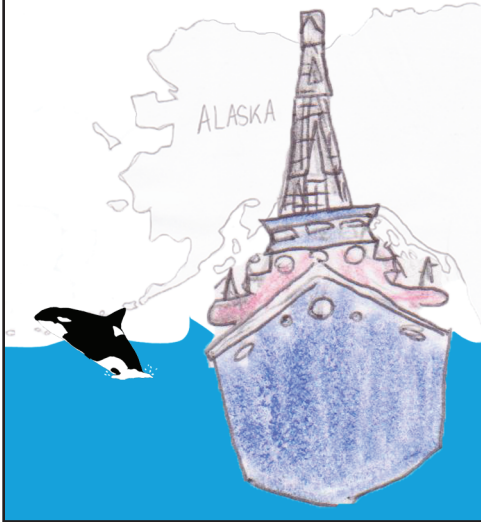
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Rachael Gray
Texas A&M University
USA

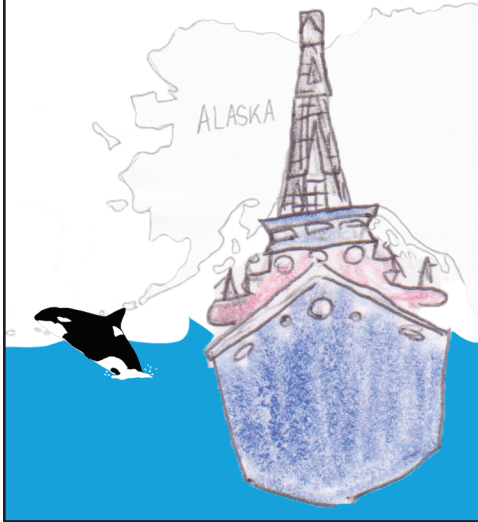


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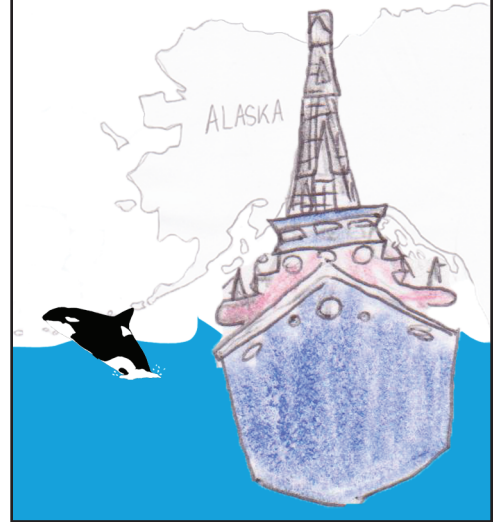
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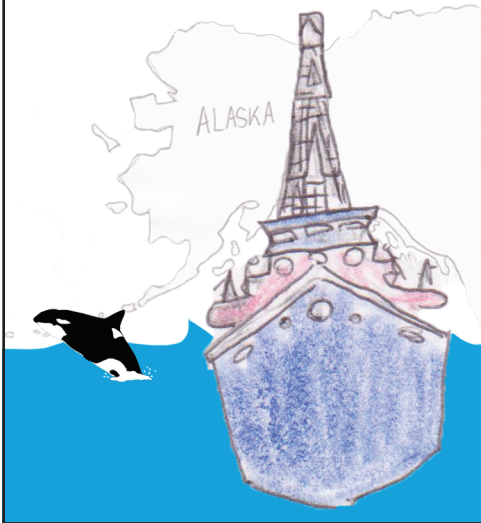
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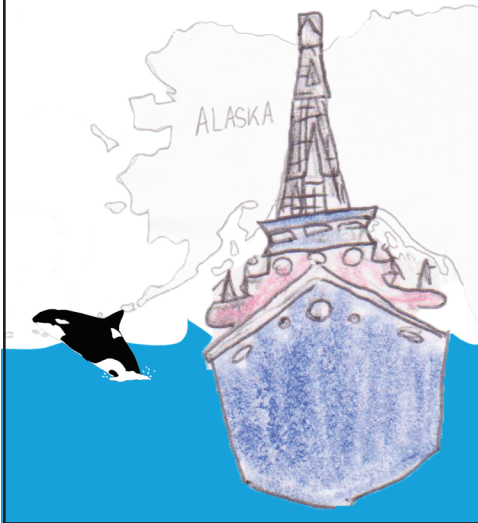
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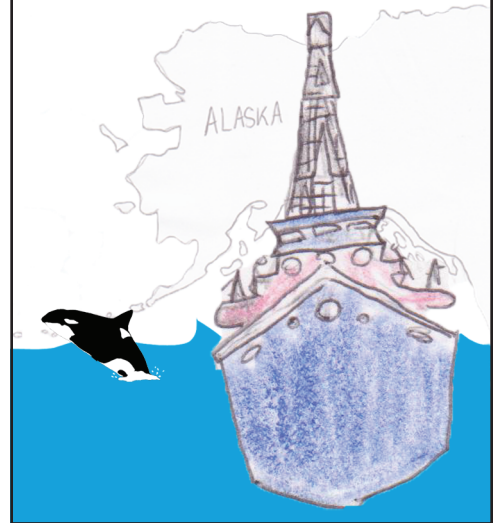
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