

## APPENDIX A

### ACRONYMS, GLOSSARY AND REFERENCES

## Acronyms

<b>%</b>	Percent
<b>&lt;</b>	Smaller than
<b>&gt;</b>	Larger than
<b>°</b>	Degrees
<b>°C</b>	Degrees Celsius
<b>µPa<sup>2</sup>s</b>	(micropascal squared) per second
<b>2D</b>	Two dimensional
<b>3D</b>	Three dimensional
<b>AASM</b>	Airgun Array Source Model
<b>APNN</b>	Greenland Home Rule Department of Fisheries, Hunting and Agriculture
<b>BIO</b>	Bedford Institute of Oceanography
<b>BMP</b>	Bureau of Minerals and Petroleum
<b>BOD</b>	Biological Oxygen Demand
<b>CEA</b>	Cumulative Effects Assessment
<b>CH<sub>4</sub></b>	Methane
<b>cm</b>	Centimetre
<b>cm/s</b>	Centimetres per second
<b>CO</b>	Carbon monoxide
<b>CO<sub>2</sub></b>	Carbon dioxide
<b>CO<sub>2e</sub></b>	Carbon dioxide equivalent
<b>CR</b>	Critically Endangered
<b>cSEL</b>	Cumulative Sound Exposure Level
<b>dB</b>	Decibels
<b>dB re 1 µPa</b>	Decibels relative to one micropascal
<b>DCE</b>	Danish Centre for Environment and Energy
<b>DD</b>	Data Deficient
<b>DKK</b>	Danish krone
<b>DMI</b>	Danish Meteorological Institute
<b>E</b>	East
<b>e.g.</b>	For example
<b>EEZ</b>	Exclusive Economic Zone
<b>EIA</b>	Environmental Impact Assessment

<b>EN</b>	Endangered
<b>EPP</b>	Environmental Protection Plan
<b>ERP</b>	Emergency Response Plan
<b>et al.</b>	And others
<b>EU</b>	European Union
<b>FLO</b>	Fishery Liaison Officers
<b>GFLC</b>	Greenland Fisheries License Control
<b>GINR</b>	Greenland Institute of Natural Resources
<b>GMT</b>	Greenwich Mean Time
<b>GPS</b>	Global Position System
<b>HSE</b>	Health, Safety, and Environment
<b>HSSE</b>	Health, Safety, Security and Environment
<b>Hz</b>	Hertz
<b>IBA</b>	Important Bird Area
<b>IBCAO</b>	International Bathymetric Chart of the Arctic Ocean
<b>ICES</b>	International Council of the Exploration of the Sea
<b>IFC</b>	International Finance Cooperation
<b>IMO</b>	International Maritime Organization
<b>in<sup>3</sup></b>	Cubic inches
<b>ISO</b>	International Organization for Standardization
<b>IUCN</b>	International Union for Conservation of Nature
<b>IWC</b>	International Whaling Commission
<b>JNCC</b>	Joint Nature Conservation Committee
<b>KHz</b>	KiloHertz
<b>km</b>	Kilometres
<b>km<sup>2</sup></b>	Square kilometres
<b>km<sup>3</sup></b>	Cubic kilometres
<b>KNAPK</b>	Greenland Fishery and Hunters Association
<b>KS/s</b>	kilo samples per second
<b>LC</b>	Least Concern
<b>LSA</b>	Local Study Area
<b>m</b>	Metres
<b>m/s</b>	Metres per second

<b>m<sup>3</sup></b>	Cubic metres
<b>m<sup>3</sup>/s</b>	Cubic metres per second
<b>m<sup>3</sup>/yr</b>	Cubic metres per year
<b>MDF</b>	Marine Diesel Fuel
<b>mm</b>	Millimetre
<b>mm/yr</b>	Millimetres per year
<b>MMSO</b>	Marine Mammal and Seabird Observation
<b>MOKN</b>	Maersk Oil Kalaallit Nunaat A/S and Nunaoil A/S (referred to collectively)
<b>MSDS</b>	Material Safety Data Sheet
<b>MSF</b>	Mid-Shelf Front
<b>Mt</b>	Million tones
<b>N</b>	North
<b>n/a</b>	Not applicable
<b>N<sub>2</sub>O</b>	Nitrous oxide
<b>NAFO</b>	North Atlantic Fisheries Organization
<b>NAMMCO</b>	North Atlantic Marine Mammal Commission
<b>NAO</b>	North Atlantic Oscillation
<b>NEAFC</b>	North East Atlantic Fisheries Commission
<b>NERI</b>	National Environmental Research Institute (Denmark)
<b>NMFS</b>	National Marine Fisheries Service
<b>NOAA</b>	National Oceanic and Atmospheric Administration
<b>NORSOK</b>	Norsk Søkkel Konkuranseposisjon (competitive standing of the Norwegian Offshore Sector)
<b>NOx</b>	Nitrogen oxides
<b>NT</b>	Near Threatened
<b>OGP</b>	International Association of Oil and Gas Producers
<b>OPV</b>	Offshore patrol vessel
<b>OSPAR</b>	Convention for the Protection of the Marine Environment of the North East Atlantic
<b>PAM</b>	Passive Acoustic Monitoring
<b>PM</b>	Particulate matter
<b>PPE</b>	Personal Protective Equipment
<b>PSI</b>	Pounds per square inch
<b>psu</b>	Practical salinity units
<b>PTS</b>	Permanent Threshold Shift

<b>RAL</b>	Royal Arctic Line
<b>RMS</b>	Root Mean Square Pressure
<b>rms</b>	Root mean square
<b>rms SPL</b>	Root-mean-square sound pressure level
<b>RSA</b>	Regional Study Area
<b>S</b>	South
<b>SBP</b>	Sub-bottom profiling
<b>SEL</b>	Sound Exposure Level
<b>SL</b>	Source level
<b>SOx</b>	Sulphur oxides
<b>sp.</b>	Species
<b>SPL</b>	Sound Pressure Level
<b>spp.</b>	Multiple species
<b>Sv</b>	Sverdrup
<b>TAC</b>	Total Allowable Catch
<b>the Project</b>	MONK's proposed 2012 exploration program.
<b>tonnes/L</b>	Tonnes per litre
<b>TTS</b>	Temporary Threshold Shift
<b>TWT</b>	Two-way time
<b>USBL</b>	Ultrashort Baseline
<b>VEC</b>	Valued Ecosystem Component
<b>VMS</b>	Vessel Monitoring System
<b>VOC</b>	Volatile Organic Compound
<b>VSP</b>	Vertical seismic profiling
<b>VU</b>	Vulnerable
<b>W</b>	West
<b>WGCF</b>	West Greenland Current Front
<b>µPa</b>	Micropascal

## Glossary

<b>Ablates</b>	When ice cover melts.
<b>Abyssal plain</b>	Topographic feature representing the relatively flat (plain) area of the bottom of oceans floors.
<b>Acoustics</b>	The scientific study of sound, especially of its generation, transmission, and reception.
<b>Advection (inflow)</b>	Transport mechanism induced by the flow of water.
<b>Advection fog</b>	Occurs when moist air passes over a cool surface by advection (wind).
<b>Alkanes</b>	Are also known as paraffin's or saturated hydrocarbon. They are chemical compounds that consist only of hydrogen and carbon atoms (single bonds). They are not very reactive and have little biological activity.
<b>Amphidromic point</b>	A geographical location where the tidal amplitude is zero.
<b>Ancillary</b>	Providing necessary support to the primary activities or operations.
<b>Anthropogenic noise</b>	Noise created by people or caused by human activity.
<b>Aquatic alien species</b>	Aquatic species that are non-native or non-indigenous to the receiving environment.
<b>Aromatic hydrocarbons</b>	A hydrocarbon with alternating double and single bonds between carbon atoms.
<b>Atmospheric fronts</b>	Area delimiting distinct atmospheric masses (cold and warm usually).
<b>Attenuate</b>	Act of reducing the amplitude of a signal (acoustic, electric, etc.).
<b>Average draft</b>	Mean vertical distance between the waterline and the bottom of the hull (keel) of a ship.
<b>Bathymetry</b>	Measurement of the depth of bodies of water
<b>Beaufort Scale</b>	An empirical measure that relates wind speed to observed conditions at sea or on land
<b>Beaufort Scale</b>	An empirical measure that relates wind speed to observed conditions at sea or on land
<b>Benthic ecology</b>	The study of populations and communities of marine and estuarine animals that live on the seafloor or in the seafloor sediments
<b>Bergy bit</b>	A large chunk of ice broken off an iceberg (small iceberg)
<b>Biological Oxygen Demand</b>	The amount of dissolved oxygen needed by some organisms in water to break down organic material. The BOD value is most commonly expressed in milligrams of oxygen consumed per litre (5 days of incubation at 20 °C) and is often used as to determine the level of organic pollution of water.
<b>Boundary layer transport</b>	Transport (generally sediment) occurring within the thin layer of water column located just above the seafloor.
<b>Bow</b>	Front of a vessel
<b>Box coring</b>	Marine geological sampling tool for collecting soft sediments and benthos (animals on the seafloor or in the sediment) from the seafloor.
<b>Brackish plumes</b>	An inflow of low salinity water

<b>Bunkering</b>	Re-fuelling.
<b>Calved</b>	Act of an iceberg breaking off a continental glacial field
<b>Cetacean</b>	Member of group of aquatic marine mammals that includes the whales, dolphins, porpoises, and related forms.
<b>Clay soils</b>	Sediment consisting of one or more clay minerals with traces of metal oxides and organic matter. Geologic clay deposits are mostly composed of phyllosilicate minerals containing variable amounts of water trapped in the mineral structure.
<b>Clear ice</b>	Harder (and denser) type of rime ice that is transparent and homogeneous.
<b>Constituent components</b>	Particles or elements that serve as part of a whole component.
<b>Continental shelf</b>	Submerged extended perimeter of a land mass that is often characterised by a relatively flat and gently sloping surface lowering toward the slope and abyssal plain.
<b>Continental slope</b>	Steep underwater slope making the connection between the continental shelf and the abyssal plain.
<b>Cross-frontal exchange</b>	Exchange of water within the frontal zone (a zone between distinct water masses).
<b>Cyclones</b>	Atmospheric feature characterized by inward spiralling and anticlockwise rotation (in the Northern Hemisphere) of the air masses.
<b>Cyclonic</b>	Counter-clockwise motion (usually for fluids).
<b>Dissipate</b>	The loss of energy of a system over time.
<b>Dissolution</b>	The rate and extent to which oil dissolves in water. Rarely exceed 1 ppm and dissolution does not make a significant contribution to the removal of oil from the sea surface.
<b>Distance sampling</b>	A widely-used group of closely related methods for estimating the density and/or abundance of populations.
<b>Diurnal</b>	Occurring once a day (24 hours period).
<b>Drifting ice</b>	Ice that floats on the surface of the water in cold regions, also called pack-ice. Opposite to fast-ice, which is attached ("fastened") to a shore.
<b>Eddy</b>	Internal rotational motion within the fluid resulting from the dissipation of energy of a turbulent flow. Eddies commonly occur at frontal zones between water masses of different densities and velocities for instance.
<b>Fast ice</b>	Sea ice that has frozen along coasts ("fastened" to the coast) along the shoals, or to the sea floor over shallow parts of the continental shelf, and extends out from land into sea. Also called land-fast ice or shore-fast ice.
<b>First-year ice</b>	Sea-ice that has grown for not more than one winter, developing from young ice. Typically 30 cm or greater.
<b>Fjords</b>	A long, narrow inlet with steep sides or cliffs, created in a valley made by glacial activity.
<b>Floe</b>	Floating ice formed in a large sheet on the surface of a body of water.
<b>Fortnightly modulation (spring and neap)</b>	Modulation (increase or decrease) of the tidal signal occurring every 14 days, that is at spring and neap tides.
<b>Frozen in</b>	Ice that is not moving due to ice formation that constrains motion

<b>Gale-force winds</b>	Winds equal or over 13 m/s (in this context, Valeur et al, 1996 definition).
<b>Geostrophic winds</b>	The theoretical wind that would result from an exact balance between the Coriolis effect and the pressure gradient force
<b>Gravity coring</b>	A core sampler is dropped into the bottom of the ocean to obtain a vertical core sample of the seabed materials
<b>Ground</b>	Not moving due to contact with the ground or seafloor
<b>Growler</b>	Size category of an ice berg. Growlers and less than 1 metre high and less than 5 metres long.
<b>Hindcast dataset</b>	Data derived from the re-analysis of historical data and re-implementation of numerical models to derive long times series of parameters of interest (here: wind and wave).
<b>Hummocking</b>	Internal pressure within sea ice which results in haphazardly arranged mounds or hillocks
<b>Hydrodynamic discontinuities</b>	Frontal zones characterized by a steep change of fluid dynamics fundamental properties (from turbulent to stagnant regime for instance)
<b>Hydrodynamic loading</b>	Forces that result from water flowing against and around a structure such as a vessel
<b>Hydrographic survey</b>	The science of measurement and description of features which affect maritime navigation, marine construction, dredging, offshore oil exploration/drilling and related disciplines.
<b>Hydrographic Vessel</b>	A ship used to study depth levels and coastlines.
<b>Ice bridge</b>	A frozen natural structure formed over seas, bays, rivers or lake surfaces
<b>Iceberg</b>	A large piece of ice from freshwater that has broken off from a snow-formed glacier or ice shelf and is floating in open water
<b>Iceberg volume fluxes</b>	The total volume of icebergs moving through a specified area
<b>Impulsive noise</b>	A category of acoustic noise characterized by almost instantaneous sounds like clicks or pops, as opposed to continuous sources of noise generation.
<b>Inter-annual</b>	Over the span of several years.
<b>Invasive species</b>	Alien species that have an adverse affect on the habitats and bioregions they invade either economically, environmentally, and/or ecologically.
<b>Isobath</b>	Contour of equal depth.
<b>Isobath polygons</b>	Polygons made from contours of equal depth.
<b>Isopleth</b>	line connecting points on a graph or map that have equal or corresponding values.
<b>Isopycnals</b>	Contours of equal density
<b>Keels</b>	The underside portion of a floating object, such as a vessel, iceberg or sea ice
<b>Landfast ice</b>	Sea ice that has frozen along coastal shoals, or to the sea floor over shallow parts of the continental shelf, and extends out from land into sea.
<b>Latent heat process</b>	The heat required to convert a solid into a liquid or vapor, or a liquid into a vapor, without change of temperature.



<b>Leads</b>	Stretches of open water within fields of sea ice. Leads are caused by movements of the ice due to wind, or to currents in the underlying water, and may open and close again within a brief period; alternatively they may remain open more or less permanently
<b>Level ice</b>	Sea ice that is comparatively flat on its top and lower sides
<b>Longlines</b>	A deep-sea fishing line.
<b>Macerated</b>	Softening or breaking-up of food by soaking it in a liquid.
<b>Marginal ice region</b>	The area between the highly concentrated sea ice pack and open water areas.
<b>Material Safety Data Sheets</b>	Also known as Control of Substances Hazardous to Health Regulations (COSHH) data sheet in the United Kingdom. Forms with data regarding the properties of a particular substance. MSDS are important component of product stewardship and workplace safety, and they are intended to provide workers and emergency personnel with procedures for handling or working with that substance in a safe manner, and includes information such as physical data.
<b>Maximum draft</b>	The vertical distance from the bottom of a floating object to the water level
<b>Mean peak period (Tp):</b>	Wave period demined using spectral distribution.
<b>Mean sail height</b>	The average height of the ice above the water level
<b>Mean speed</b>	Average speed of an object
<b>Mean waterline</b>	Average length of the waterline around a floating object
<b>Mean width</b>	Average width of an object
<b>Median iceberg mass</b>	The middle value of an ordered set of the mass values of many icebergs.
<b>Medium ice</b>	Ice that is 0.7 to 1.2 m thick.
<b>Middle Ice Pack</b>	The area of highly concentrated sea ice that remains in central Baffin Bay in summer after sea ice has cleared to the east and the north
<b>Middle Ice Pack or West Ice</b>	Early summer clearing of sea ice leaves a pattern of remnant sea ice in central Baffin Bay only.
<b>Mid-Shelf Front</b>	Frontal zone located about mid-way on the continental shelf.
<b>Mooring</b>	Instrumentation deployed in the sea and anchored to measure specific parameters (physical and/or biological)
<b>Mysticete</b>	A suborder of whales which have which have plates of whalebone in their mouth instead of teeth.
<b>New ice</b>	Ice that is up to 10 cm thick.
<b>Nomograms</b>	Graphical tool used predict or calculate a function involving multiple parameters.
<b>North Water polynya</b>	A very large area of open water and/or thin ice which occurs in winter and spring in Nares Strait between Canada and Greenland which extends into Northern Baffin Bay
<b>Oceanic fronts</b>	Large horizontal gradients in water properties (such as temperature and salinity for instance).

<b>Odontocete</b>	A suborder of whales which have teeth, contrasted with the baleen whales which have plates of whalebone in their mouth.
<b>Oil plume</b>	Column of oil moving through water.
<b>Passive Acoustic Monitoring (PAM)</b>	Observation of sound and noise using equipment which solely receives ambient or externally generated sound waves, as opposed to active acoustic methods which transmit sound waves and observe the reflected pattern.
<b>Permanent Threshold Shift</b>	The deterioration of hearing due to prolonged or repeated exposure sounds which accelerate the normal process of gradual hearing loss and the permanent hearing damage due to brief exposure to extremely high sound levels.
<b>Pinniped</b>	Member of group of aquatic carnivorous mammals including the seals and walruses.
<b>Piston coring</b>	A long, heavy tube plunged into the seafloor to extract samples of mud sediment
<b>Polar vortex</b>	Persistent (steady) large-scale cyclone located near the pole.
<b>Port</b>	The left hand side of a vessel.
<b>Pour point</b>	Lowest temperature at which a liquid substance becomes semi-solid and loses its flow characteristics.
<b>Propagation</b>	the process by which a disturbance, such as the motion of sound waves, is transmitted through a medium such as air or water.
<b>Propagation Loss</b>	The reduction of sound power with increasing distance from source.
<b>Quasi-decadal</b>	That occurs on a cycle of about 10 years.
<b>Radiation fog</b>	Occurs by the cooling of the surface after sunset in calm conditions and clear sky.
<b>Rafting</b>	The process by which two pieces of level ice ride-up over one another
<b>Refraction</b>	Bending of the sound propagation direction.
<b>Remoulding</b>	When silt or clay soils are disturbed, they generally lose some of their strength, and may absorb water, a process known as remoulding
<b>Reticle Binoculars</b>	Binoculars with a net of fine lines or fibers (crosshairs) in the eyepiece.
<b>Ridging</b>	The process by which individual pieces of sea ice pile up in large deformed ice features
<b>Rime ice</b>	Milky and crystalline ice that often forms when water droplets in fog freeze to the surfaces of objects.
<b>Scouring (or gouging)</b>	Long, narrow ditches in a seabed, created by the collision of the underside of sea ice or icebergs
<b>Sediment</b>	Naturally occurring material that is broken down by processes of weathering and erosion, and is subsequently transported by the action of fluids such as wind, water, or ice, and/or by the force of gravity acting on the particle itself.
<b>Sedimentation</b>	When oily particles make their way to the sea bed where they interact with bottom sediments.
<b>Seismic Survey</b>	A survey method that uses strong low-frequency sound waves to map subterranean features.
<b>Semi-diurnal</b>	Occurring twice a day (12 hours period).

<b>Sensible heat process</b>	When an object is heated, its temperature rises as heat is added; the increase in heat is called sensible heat
<b>Shear zone</b>	Linear polynya-type feature.
<b>Sills: (in this context: bathymetric feature)</b>	Shallow area usually separating a channel, strait or Fjord to deeper basins or external body of water.
<b>Solar radiation</b>	Input of energy from the sun to the surface of the earth.
<b>Sound channel axis</b>	The depth of the minimum sound speed in the water column
<b>Sound Exposure Level</b>	A measure of total sound energy experienced as opposed to magnitude of a sound pressure wave. Sound exposure level can describe the sound level experienced during a single sound pulse or the summed total energy experienced from multiple sound pulses.
<b>Sound Pressure Level</b>	A decibel measure of sound pressure magnitude. Can be measured as the peak or maximum instantaneous sound pressure attained within a defined interval.
<b>Sound propagation</b>	The process by which sound pressure waves are transmitted through a medium such as water
<b>Specific gravity</b>	Ratio of the density (mass of a unit volume) of a substance (oil) to the density (mass of the same unit volume) of a reference substance (water).
<b>Starboard</b>	The right hand side of a vessel.
<b>Stratigraphic drilling</b>	A geologically directed drilling effort to obtain information pertaining to a specific geological condition that might lead toward the discovery of an accumulation of oil and gas
<b>Sub-Bottom Profiling</b>	A method for determining the nature and stratigraphy of sub-surface seabed materials, often using acoustic or sound generating equipment.
<b>Surface sound channel</b>	The region where a low velocity condition develops and becomes stable in the mixed layer.
<b>Sverdrup</b>	Sv, equal to $10^6$ cubic metres per second.
<b>Temporary Threshold Shift</b>	Temporary increases in threshold occurring after exposure to high noise levels, which can last from minutes to hours.
<b>Thermodynamics</b>	The branch of physics that deals with the relationships and conversions between heat and other forms of energy
<b>Thin ice</b>	Ice that is 30 to 70 cm thick.
<b>Tidal amplitude</b>	Represents half the tidal wave range. That is the height between still (or mean) water level and high (or low) water level (assuming sinusoidal shape of the wave).
<b>Topographic control</b>	Control of the flow by prominent topographic features such banks or canyons.
<b>Transient</b>	An event of relatively short duration having an obvious start and end.
<b>Transmission loss</b>	The reduction in sound level that results from the spreading of sound away from an acoustic source, subject to the influence of the surrounding environment. Also referred to as propagation loss.

<b>Upwelling</b>	Upward motion created by the divergence of currents and bringing deeper water to the surface. Along the coast, upwelling is often created (forced) by the combination of the wind stress and the Coriolis force displacing surface water seaward.
<b>Vertical salinity Stratification</b>	Vertical distribution of salinity demonstrating steep gradients.
<b>Viscosity</b>	A measure of the resistance of a fluid which is being deformed by either shear or tensile stress (the thickness of a fluid).
<b>Wake</b>	The waves that spreads behind a vessel or other moving body
<b>Young ice</b>	Ice that is 10 to 30 cm thick.

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## Errata

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