





























# CANDIDATES to be considered for SOOS ecosystem Essential Ocean Variables

-  Mature
-  Pilot
-  Conceptual
-  No statement on readiness
-  Multiple methods/platforms at different readiness level





















## Benthic Species

-  - Sessile taxa abundance/density
-  - Sessile taxa species composition
-  - Sessile taxa size spectrum
-  - Sessile taxa detritus export/import
-  - Sessile taxa fishery catch
-  - Mobile invert. abundance/density
-  - Mobile invert. species composition
-  - Mobile invert. size spectrum
-  - Mobile invert. fishery catch
-  - Fish abundance/density
-  - Fish species composition
-  - Fish size spectrum
-  - Fish diet
-  - Fish fishery catch




























## Human Pressures

-  - Fisheries magnitude/effort
-  - Fisheries range/location
-  - Fisheries catch
-  - Pollution source/magnitude
-  - Pollution range/location
-  - Pollution type
-  - Tourism magnitude
-  - Tourism range/location
-  - Tourism activity

## Pelagic & Sea Ice Taxa

-  - Primary producers/microbial abundance
-  - Primary producers/microbial species composition
-  - Primary producers/microbial size spectrum
-  - Primary producers/microbial detritus export/import
-  - Krill abundance/density
-  - Krill size spectrum
-  - Krill diet
-  - Krill fishery catch
-  - Zooplankton abundance/density
-  - Zooplankton species composition
-  - Zooplankton size spectrum
-  - Zooplankton diet
-  - Mesopelagic fish abundance/density
-  - Mesopelagic fish species composition
-  - Mesopelagic fish size spectrum
-  - Mesopelagic fish diet
-  - Mesopelagic fish fishery catch
-  - Other fish abundance/density
-  - Other fish diet
-  - Other fish fishery catch

## Marine Mammals & Birds

-  - Adelie, Gentoo Pengiun abundance
-  - Adelie, Gentoo Pengiun genetic composition
-  - Adelie, Gentoo Pengiun size spectrum
-  - Adelie, Gentoo Pengiun foraging range
-  - Adelie, Gentoo Pengiun diet
-  - Adelie, Gentoo Pengiun phenology
-  - Adelie, Gentoo Pengiun reproductive rate
-  - King, Emperor Pengiun abundance
-  - King, Emperor Pengiun genetic composition
-  - King, Emperor Pengiun foraging range
-  - King, Emperor Pengiun diet
-  - King, Emperor Pengiun phenology
-  - Humpback whales abundance
-  - Humpback whales genetic composition
-  - Humpback whales foraging range
-  - Humpback whales diet
-  - Crabeater seal abundance
-  - Crabeater seal diet
-  - Ant. Fur and Elephant seal abundance
-  - Ant. Fur and Elephant seal foraging range
-  - Ant. Fur and Elephant seal diet
-  - Ant. Fur and Elephant seal phenology
-  - Ant. Fur and Elephant seal reproductive rate
-  - Ant. Fur and Elephant seal individual growth rate
-  - Flying birds abundance
-  - Flying birds diet
-  - Flying birds reproductive rate

[ Note - A number of "supporting variables" that define the physical habitat are also required but are considered within the SOOS Physical Oceanographic variables ]