

Circumpolar Biodiversity Monitoring Program (CBMP)

*Koordinering og harmonisering
af biodiversitets- og økosystem
monitering i Arktis*

Af:

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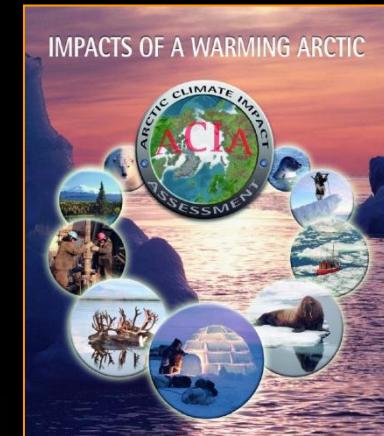


Hvorfor CBMP



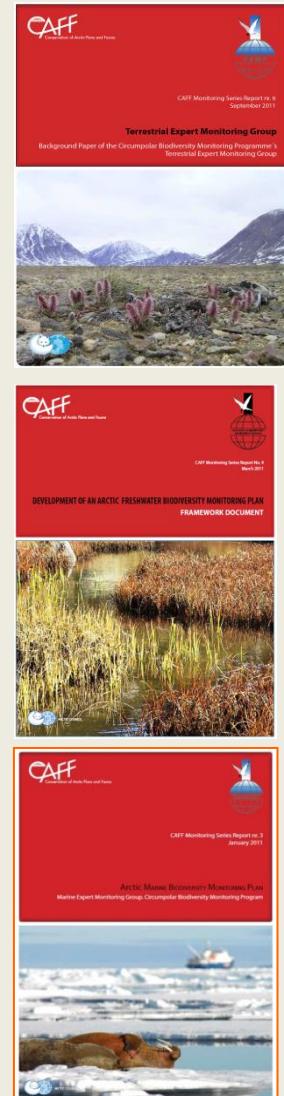
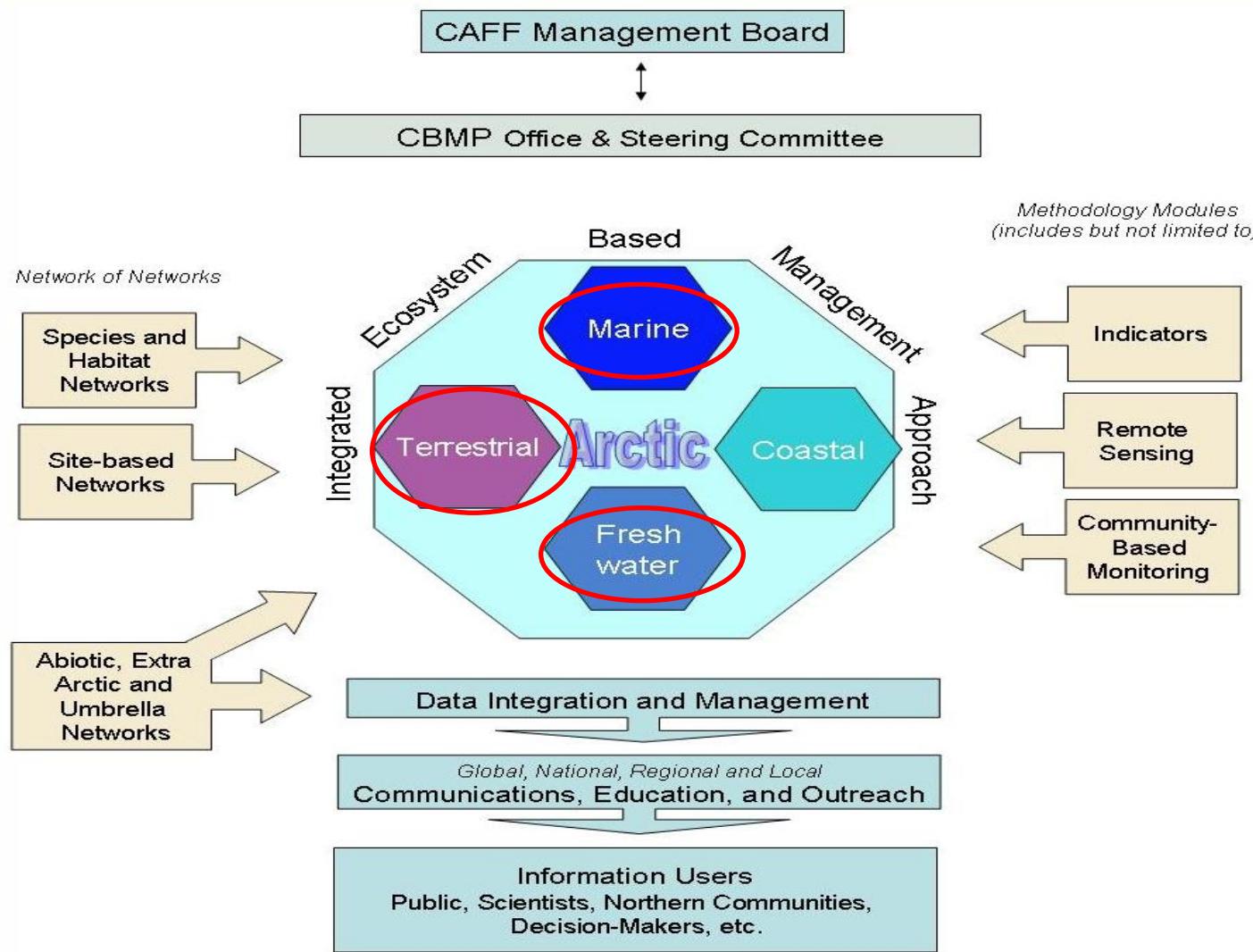
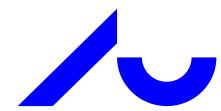
Formål:

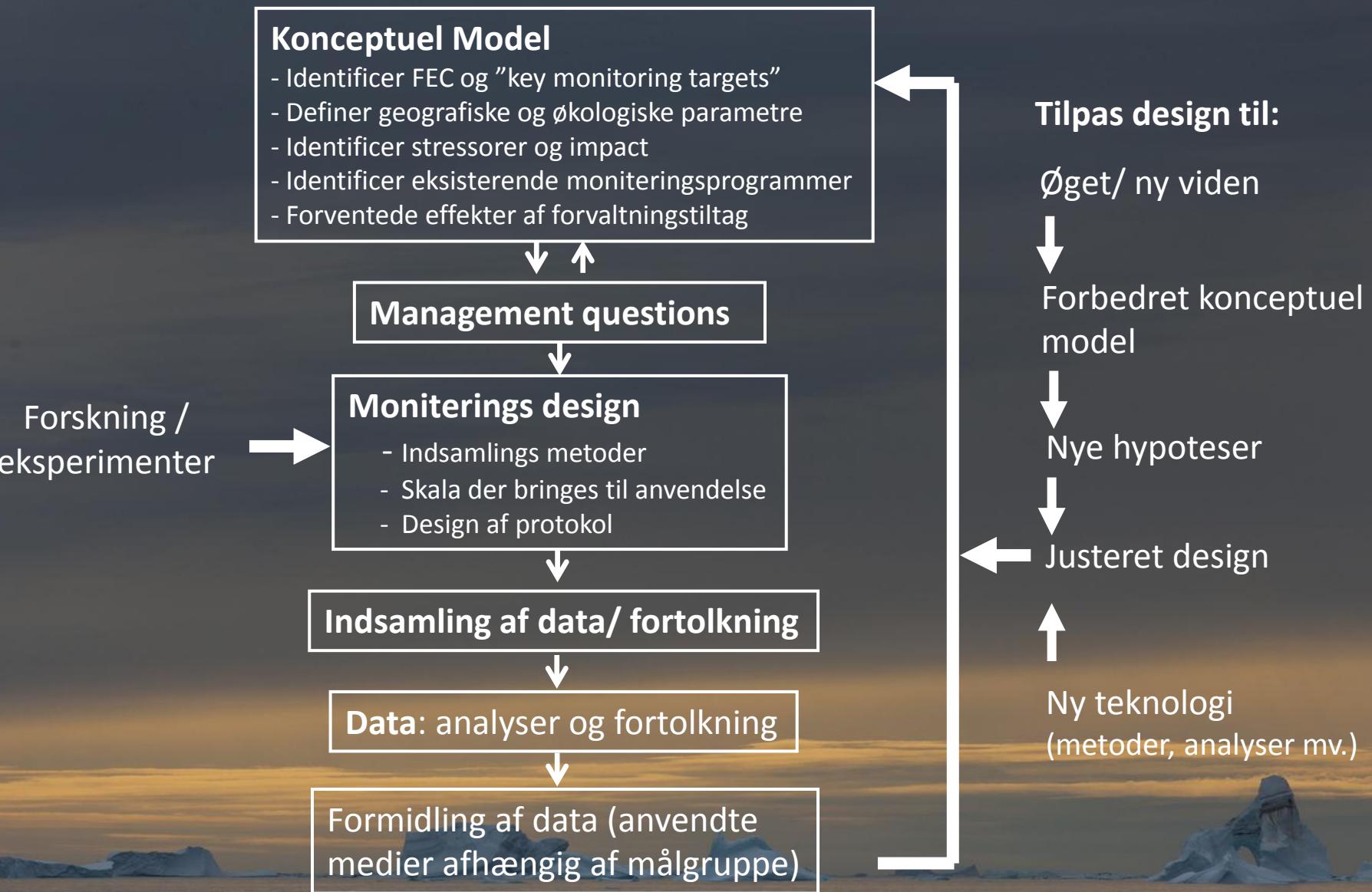
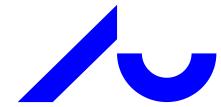
- CAFF's Opfølgning på ACIA:
"expand and enhance long-term Arctic biodiversity monitoring" - At etablere langtidsserier som kan sammenlignes circumpolart.
- At skabe synergি og "cost benefit" mellem eksisterende monitering af biodiversiteten via en økosystembaseret tilgang så ændringer spores bedre.
- Bygge bro mellem videnskab og beslutningstagere/befolkninger: Hurtigere, bedre og mere målrettet information.
- Udarbejdelse af regelmæssige assessments
- Supplere andre AC initiativer





CBMP organisation & status



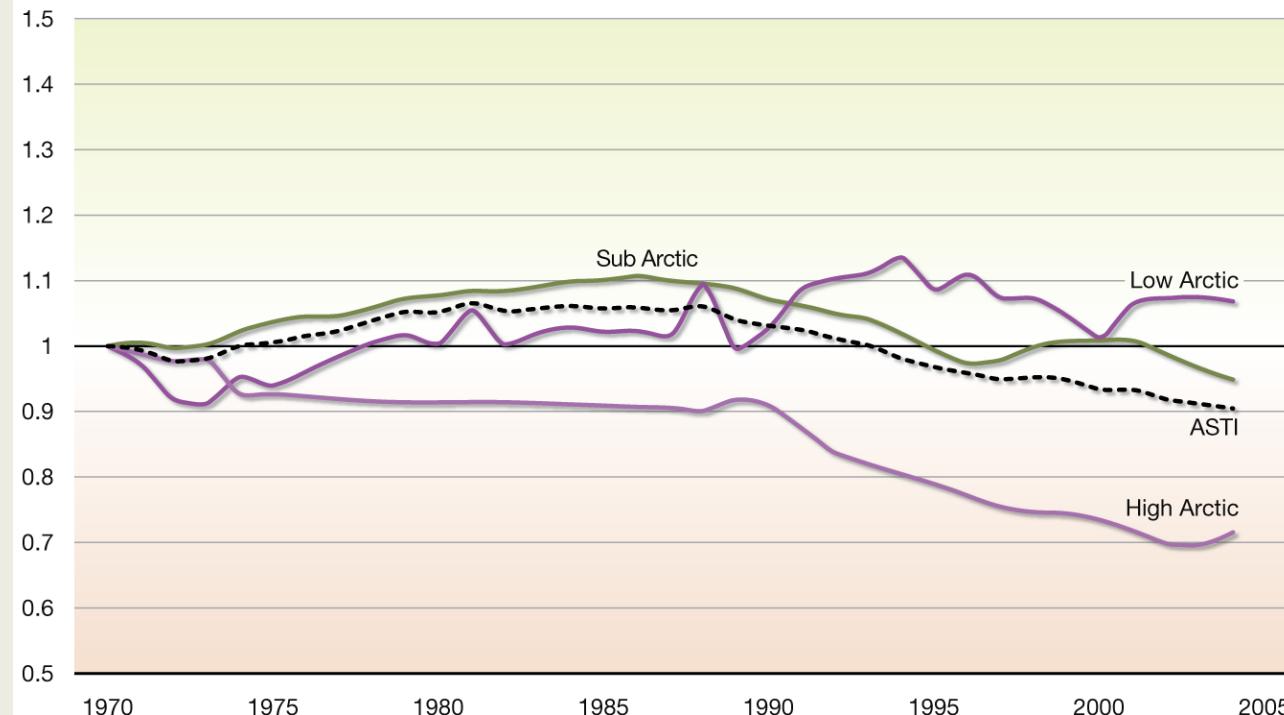




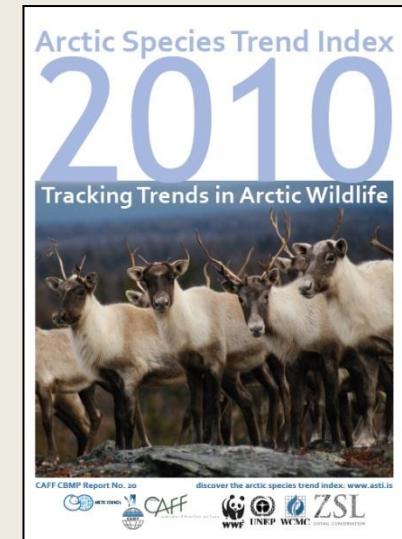
CBMP outputs: Arctic Species Trend Index

Arctic terrestrial species trends

Index 1.0 = 1970



www.asti.is





CBMP output: Arctic Biodiversity Data Service



DRAFT - Seabird Information Net

ARCTIC PORTAL

HOME ABOUT ARCTIC COUNCIL AP COMMUNITY SCIENCE PEOPLE ORGANIZATIONS MAPS PROJECTS ACRONYMS LINKS SEARCH

Arctic Peoples World North Pole South Pole Arctic Council

Data Layers

Sailing Routes

Layers Ocean Name ASTI SVS

Layer transparency:

Overview

500 mi 100 km

seabirds

Powered by Google

Start Date: 06/17/2025

sets and web mapping services. Sign up to receive updates and layers.

data from circumpolar networks and assessments.

use in publications and reports.

publications and reports.

Borgir, Nordurslóð - 800 Akureyri - Iceland - email: caff@caff.is - Tel: +354 462 3350

Designed by Arctic Portal

1429.2 km

1342 1

Glaucous-winged Gull

ABDS

birds Portal Meta Data Survey Portal seabirds.net

About Help

Search on the map:

Groups Search Measure

Arctic Tourism Organizations in the Arctic Arctic Boundary Lines Arctic Coastal Dynamics Arctic Shipping Arctic Definition Arctic Sea Ice The three Arctic Poles Weather in the Arctic Webcams around the Arctic Fire Information Potential Oil & Gas fields

Sailing Routes

In the summer 2011 the Arctic Sea Ice melt-down reached a new record low since the beginning of satellite data record ranging back to 1979 as well as other recorded data ranging back to the 30's.

The Northern Sea route is vastly free of ice. Russians are taking advantage of that, sending numerous vessels through the route, amongst them the largest ever tanker to go through the route.

Shipping in the Arctic is becoming a reality and all the Arctic nations are getting ready. The shipping and sailing will only increase with less sea ice.

For more information about Arctic Shipping, click here to visit the Arctic Portal Shipping Portlet.

Strategiske links

Internationale links:

- Arctic Biodiversity Assessment – ABA
- Andre Arktisk Råds arbejdsgrupper og projekter; AMAP, PAME (AMSA follow up), AMSA, EBM, SAON
- INTERACT
- Biodiversitetskonventionen. COP10 Decision X/13 samt, delmål 5 (om tab af naturlige levesteder), 10 (om sårbare økosystemer, 11 (om beskyttede områder), 12 (om truede arter), 14 (økosystemydelser).
- UNEP Biodiversity Partnership (fokuserer på CBD 2020 mål)
- Global Earth Observation: Biodiversity Observation Network (GEO BON)
- Global Biodiversity Information Facility (GBIF)

Nationale links:

- GEM – strategien (reelt en national CBMP).
- En række eksisterende moniteringsindsatser relateret til strategisk vigtige arter i Grønland
- En række mål i Rigets arktiske strategi
- Nye etablerede danske platforme, herunder ARC

TAK



Fotos af:

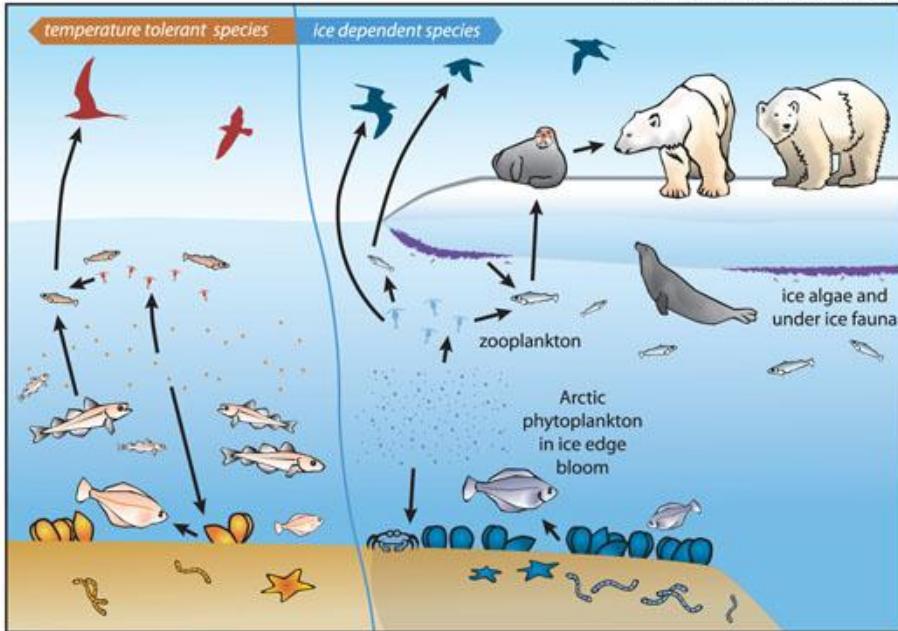
Carsten Egevang/ARC-PIC.COM

David Boertmann

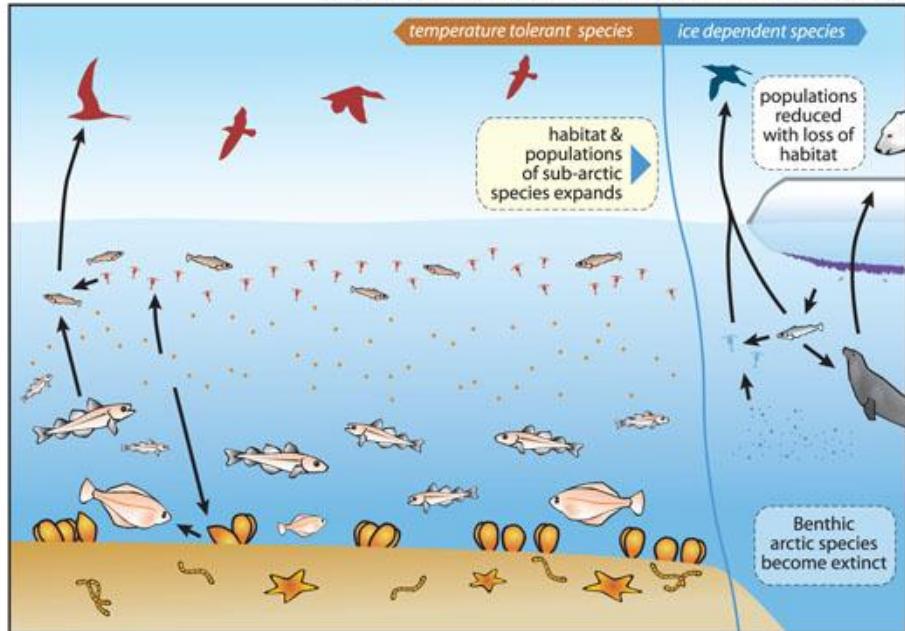
Lars Holst Hansen

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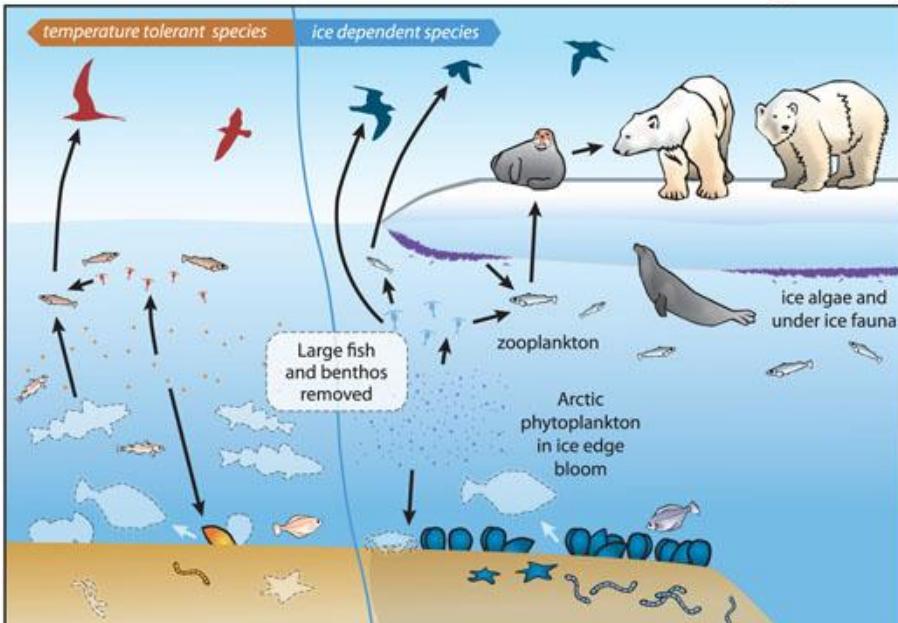
Normal Arctic Food Web



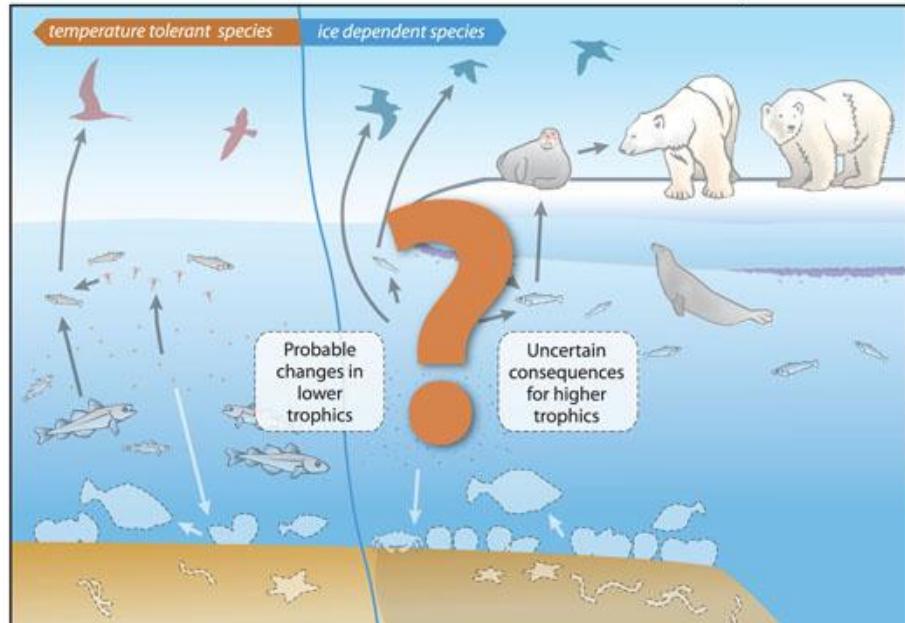
Arctic Food Web as influenced by Climate Change



Arctic Food Web as influenced by Fisheries



Arctic Food Web as influenced by acidification





CBMP outputs: Årlige Arctic Report Cards



Arctic Report Card: Update for 2011

Tracking recent environmental changes

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HOME

- Executive Summary
- Baselines & Trends

ATMOSPHERE

- Temperature & Clouds
- Carbon Dioxide & Methane
- Ozone & UV Radiation

SEA ICE & OCEAN

- Sea Ice
- Wind-driven Ocean Circulation
- Ocean Temperature & Salinity
- Sea Level
- Ocean Acidification

MARINE ECOSYSTEMS

- Ocean Biogeophysics
- Primary Productivity
- Benthic Organisms
- Polar Bears
- Whales & Seals
- Pacific Arctic Marine Ecology

TERRESTRIAL ECOSYSTEMS

- Vegetation
- Caribou & Reindeer

HYDROLOGY & TERRESTRIAL CRYOSPHERE

- Snow
- Glaciers & Ice Caps
- Greenland Ice Sheet
- Permafrost

What's new in 2011?

Persistent warming has caused dramatic changes in the Arctic Ocean and the ecosystem it supports.

Ocean changes include reduced sea ice and freshening of the upper ocean, and impacts such as increased biological productivity at the base of the food chain and loss of habitat for walrus and polar bears.

Arctic Report Card 2011

Share More info

0:00 / 2:26

2011 by Chapter

Atmosphere ●

Higher temperatures in the Arctic and unusually lower temperatures in some low latitude regions are linked to global shifts in atmospheric wind patterns.

Marine Ecosystems ●

Since 1998, biological productivity at the base of the food chain has increased by 20%. Polar bears and walrus continue to lose habitat in Alaskan waters.

Hydrology & Terrestrial Cryosphere ●

Continued dramatic loss of ice sheet and glacier mass, reduced snow extent and duration, and increasing permafrost temperatures are linked to higher Arctic air temperatures.

Status

Color	Description
Red	Significant change
Yellow	Some change
Green	Little or no change

Sea Ice & Ocean ●

A shift in the Arctic Ocean system since 2007 is indicated by the decline in ice age and summer extent, and the warmer, fresher

Terrestrial Ecosystems ●

Increased "greenness" of tundra vegetation in Eurasia and North America linked to increase in open