

Conservation Arctic Flora and Fauna



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Conservation of Flora and Fauna
Biodiversity Working Group
Arctic Council



ARCTIC COUNCIL

CAFF

CAFF and the Arctic Council



- Conservation of Arctic Flora and Fauna (CAFF)
- biodiversity Working Group of the Arctic Council
- mandate:
 - to address the conservation of Arctic biodiversity, and to communicate its findings to the governments and residents of the Arctic, helping to promote practices which ensure the sustainability of the Arctic's living resources



Area covered



- CAFF area
- 32 million km²
 - 6% of earth's surface
 - Over 21,000 species
 - Key global role

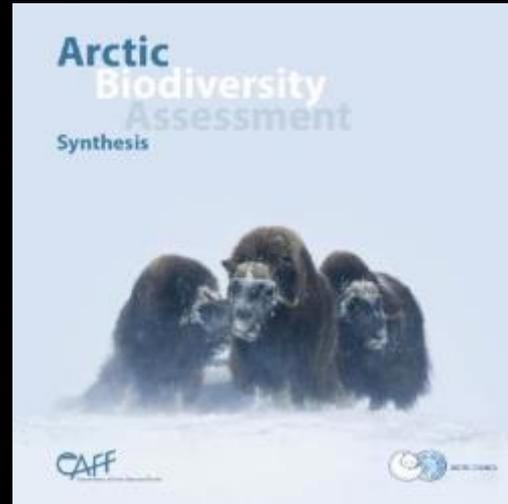


The challenge

How do we **better harness** our **knowledge and capacity** to **inform timely** and **effective decisions** in the face of **cumulative** and **accelerating change**?



Arctic Biodiversity Assessment



Monitoring

- Circumpolar Biodiversity Monitoring Program (CBMP)
- Coordinated Arctic monitoring
- International network improving detection, understanding and reporting of Arctic biodiversity trends
- Focal point for current and credible Arctic information
- Marine, terrestrial, coastal, Freshwater plans
- Bridging the information-policy gap



Indices: Land Cover Change

- A set of satellite products covering the CAFF area
- Built using MODIS
- Polar projection (Lambert Azimuthal)
- Time series from 2001-2012
- Set of indicators crossing freshwater, coastal, marine and terrestrial ecosystems

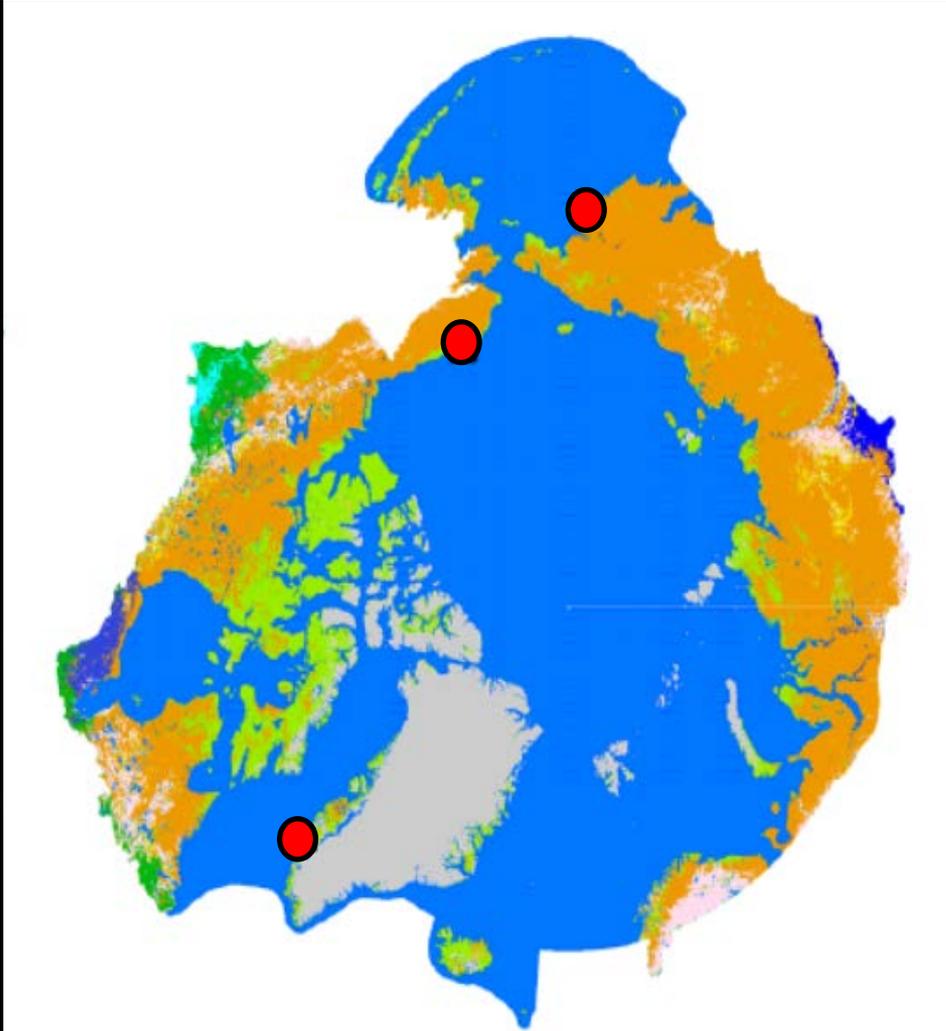


Land Cover Change Index

- Vegetation Indices
- Land Cover Dynamics (Vegetation Phenology)
- Land Cover Type
- Land Surface Temperature
- Albedo
- Snow Covered Area
- Land Water Mask
- Sea Surface Temperature
- Marine Chlorophyll



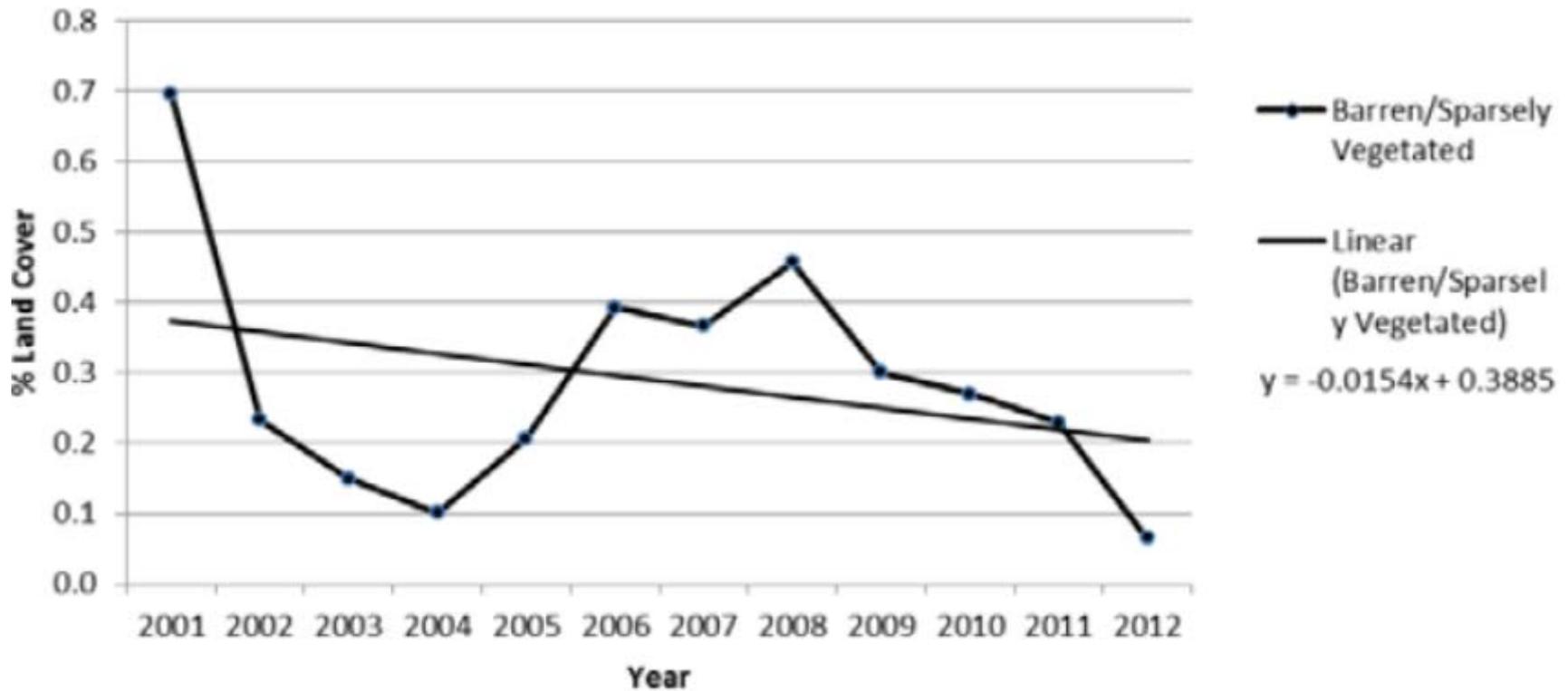
Land cover



- Forest cover + 215,000 km² (50%)
- Wetlands + 34,000 km² (19%)
- Cropland - 12,000 km² (75%)
- Grasslands + 266,000km² (9%)



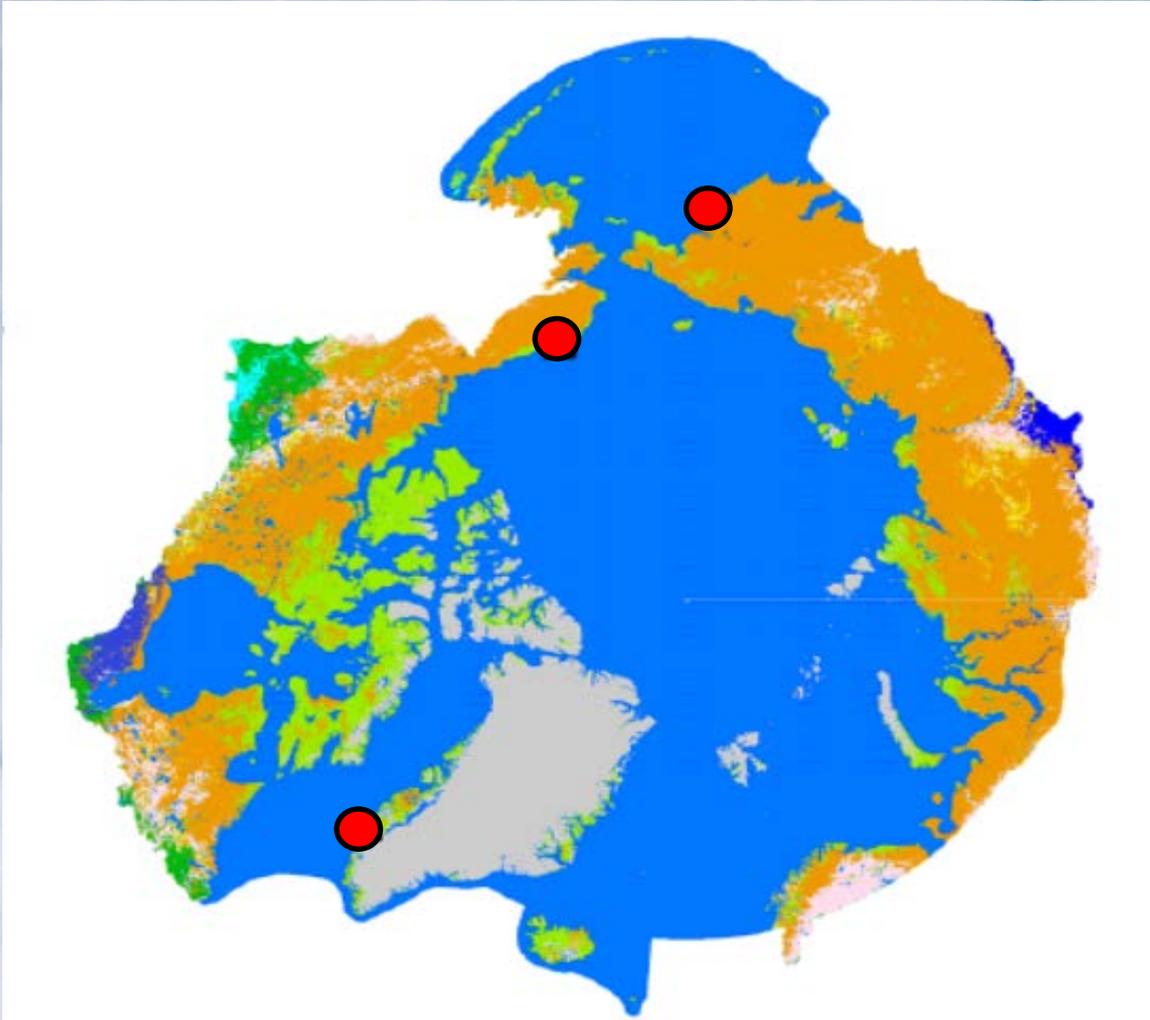
Trends: Barren/Sparsely vegetated



- 204,000 km² loss in 11 years (91%)



Landsat test areas



- Meinykil'gyno, Russia
- Barrow Alaska
- Nuuk, Greenland



Next steps

- Workshop December 1, Trondheim
- Discuss with monitoring community what works what is missing
- Regional versus circumpolar products?
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Thank you

For more information please visit:

www.caff.is

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Photos by Carsten Egevang
Unless otherwise stated



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