

PROTECTED & OTHER CONSERVED AREAS IN CANADA

A presentation for the ABCM Thematic Workshop - Montreal, Canada December 1-3 2019

Olaf Jensen

Canadian Wildlife Service **Environment & Climate Change Canada**

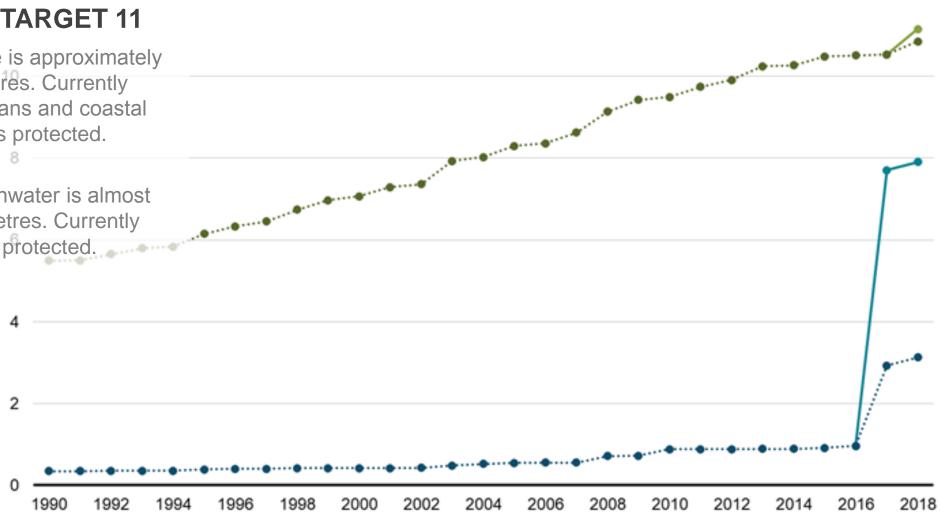


CURRENT STATUS IN CANADA TOWARDS AICHI TARGET 11

Canada's marine estate is approximately 6 million square kilometres. Currently 13.8% of Canada's oceans and coastal areas are recognized as protected.

Canada's land and freshwater is almost 10 million square kilometres. Currently 11.8% is recognized as protected.

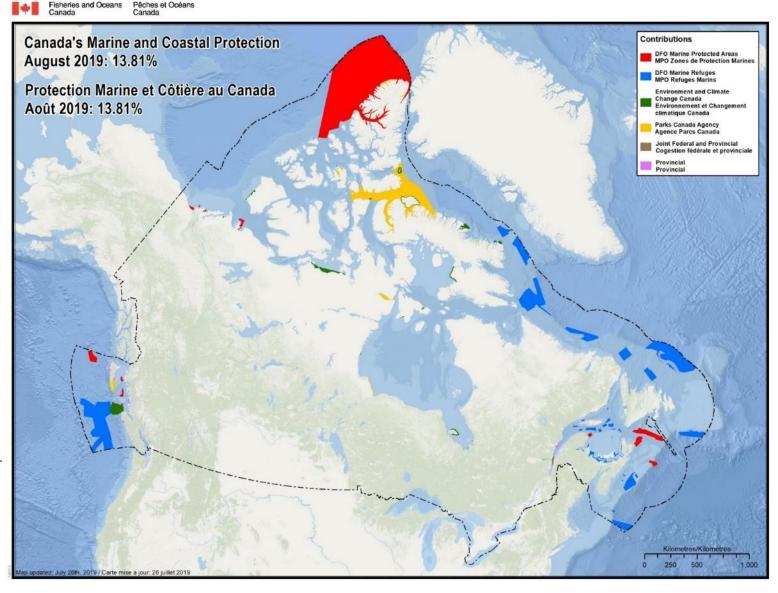




MARINE TARGET: PROGRESS TO 10%

August 2019: Canada surpassed its marine conservation targets, conserving 13.8% of its marine and coastal estate through a range of federal and provincial MPAs and OECMs (specifically, marine refuges).

Going forward: On April 25, 2019, Canada announced new protection standards for federal MPAs and federal marine OECMs. New federal MPAs will prohibit oil and gas activities, mining, dumping and bottom trawling. All activities in federal OECMs will continue to be assessed on a case-by-case basis to ensure that risks to the area are effectively avoided or mitigated.

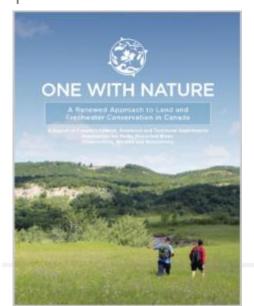


TERRESTRIAL TARGET: PROGRESS TO 17%

On April 11, 2016, Canada creating a working group of national and sub-national governments to develop a plan to make progress towards Aichi Target 11. Since 2016 Canada has added approximately 130,000 square kilometres (an area roughly equivalent to the area of

Greece and now recognizes 11.8% as

protected.

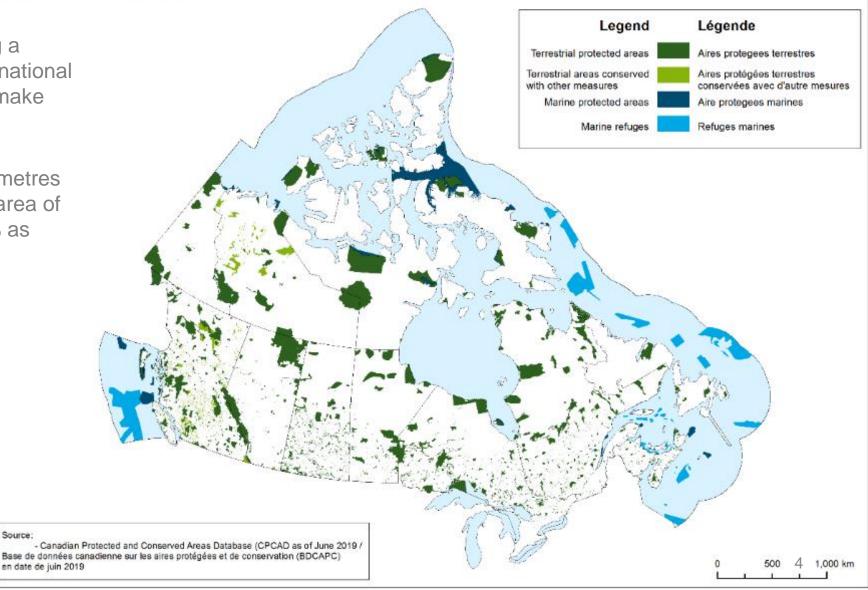


TERRESTRIAL AND MARINE AREA-BASED CONSERVATION MEASURES MESURES DE CONSERVATION EFFICACES PAR ZONE TERRESTRES ET MARINES



Source:





PROTECTED AND CONSERVED AREAS IN TERMS OF CONTRIBUTION TO THE TARGET

	Marine and Coastal	Terrestrial and Freshwater
ABCM Total	793,906 km2	1,173,914 km2
OECM Total	283,365 km2	77,066 km2
OECM Percentage of Total	36%	7%

Other Effective Conservation Measures

"a geographically defined area other than a Protected Area, which is governed and managed in ways that achieve positive and sustained long-term outcomes for the in situ conservation of biodiversity, with associated ecosystem functions and services and where applicable, cultural, spiritual, socio—economic, and other locally relevant values"

= Stewardship?

Some examples of other effective area-based conservation measures

ABCM-OECM CASE STUDIES

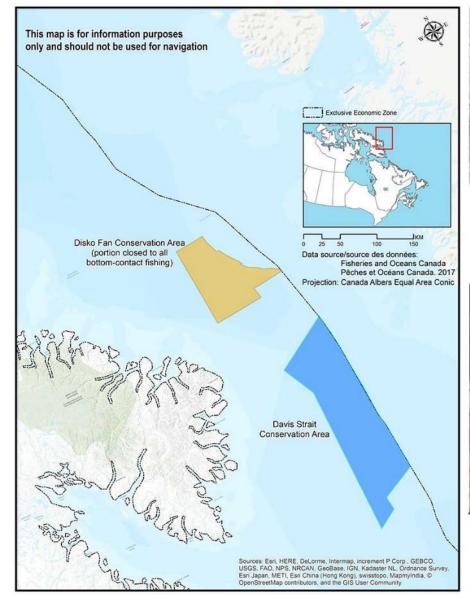
MARINE OECM: DISKO FAN

The Disko Fan Conservation Area is home to populations of Narwhal and globally unique large Gorgonian corals.

Two commercial fisheries operate in the region (Greenland halibut and northern shrimp)

Approximately 7,485 km² (0.13% coverage).

Conservation Objectives: Minimize impacts on winter food source and overwintering habitat for narwhal; and conserve coral concentrations.





Juvenile narwhal in Milne Inlet near Pond Inlet, Nunavut.© Marianne Marcoux



Northern shrimp among bubblegum coral (Paragorgia arborea). © DFO

TERRESTRIAL OECM: CONSERVATION ZONES

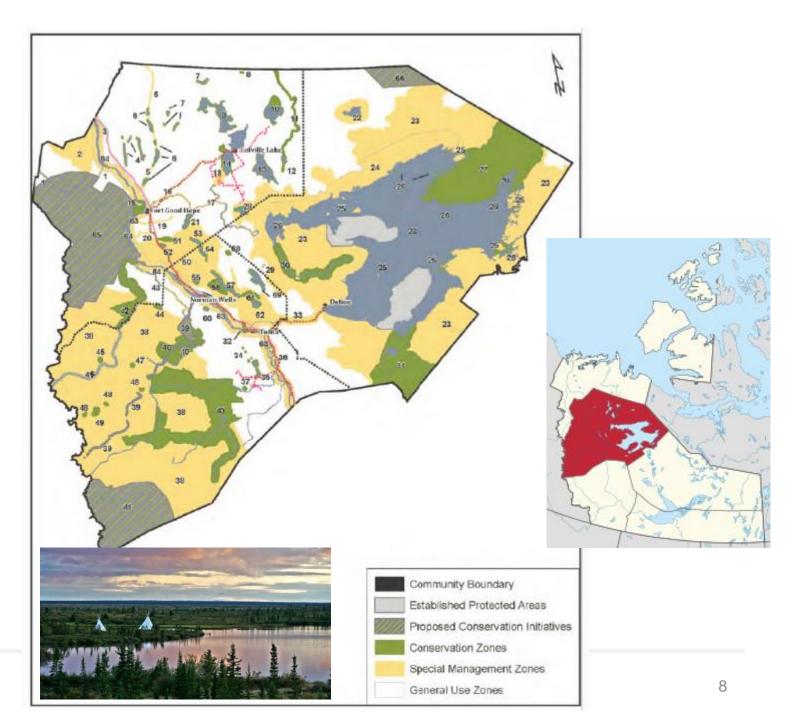
Sahtu Land Use Plan Conservation Zones are significant traditional, cultural, heritage and ecological areas in which specified land uses are prohibited.

Conservation zones in the Sahtu Land Use Plan comprise 30,384km2

The prohibited land uses in Conservation Zones are mineral exploration and development, oil and gas exploration and development, quarrying, power development, and commercial forestry.





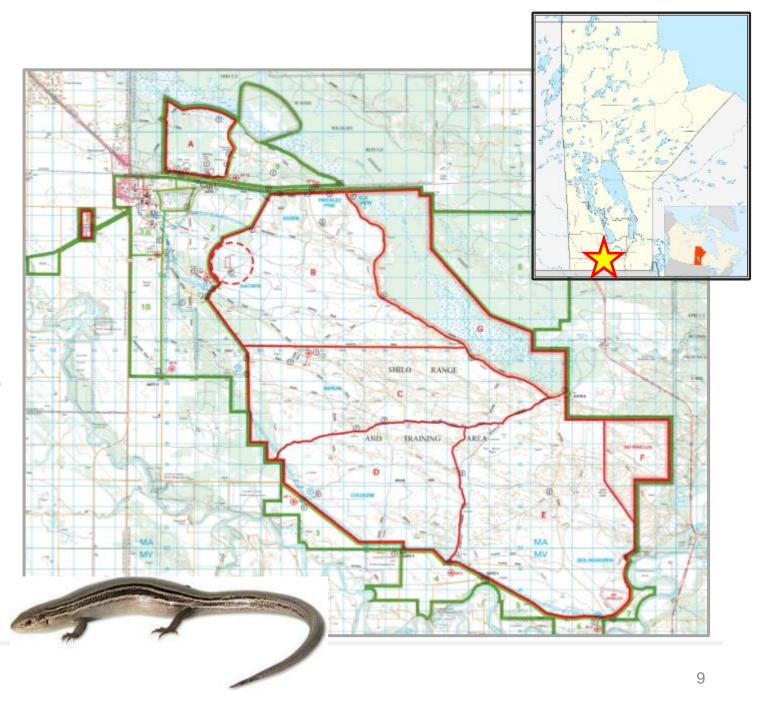


TERRESTRIAL OECM: CFB SHILO

About 211 km2 of CFB Shilo are natural habitats that support native plants and other wildlife. Activities on the base create a disturbance regime suitable for species adapted to bison as a keystone species.

The Department of National Defence has developed and maintains an environmental protection plan and a Shilo Environmental Advisory Committee was established in 1974.





Potential opportunities for future establishment and recognition of ABCM

FUTURE OPPORTUNITIES

THE CANADIAN CONTEXT: LAND OWNERSHIP

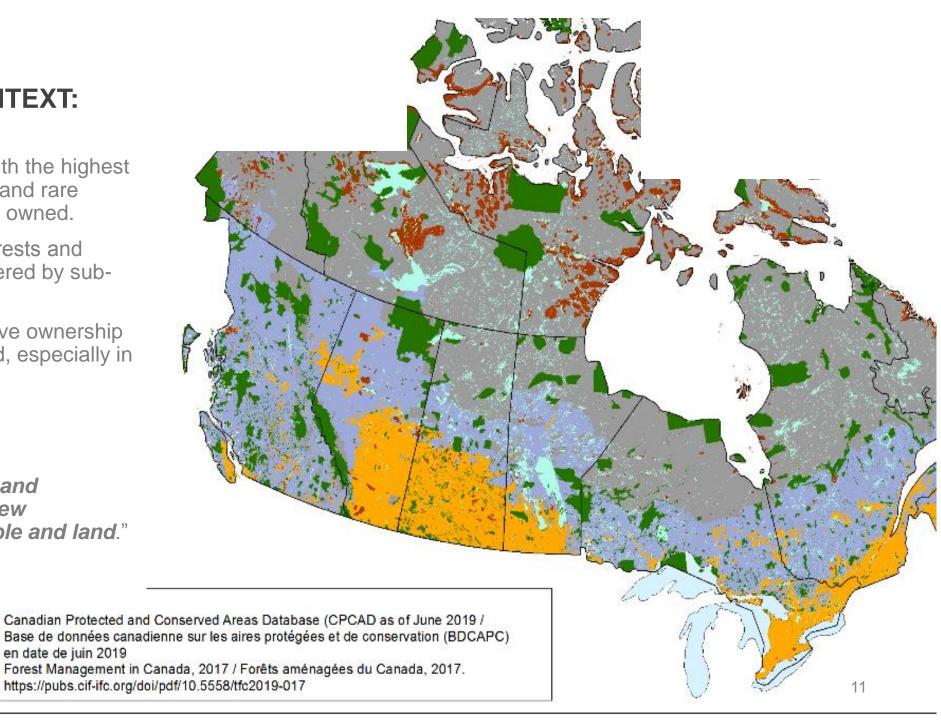
Terrestrial and freshwater with the highest frequency of species at risk and rare habitats are largely privately owned.

The majority of Canada's forests and northern lands are administered by subnational governments.

Indigenous governments have ownership over significant tracts of land, especially in northern Canada.

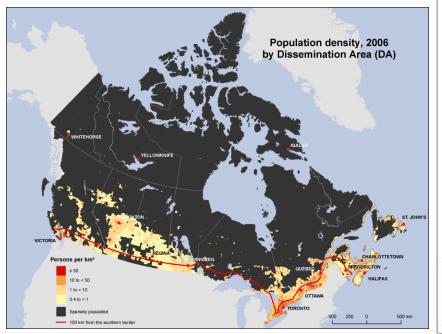
"Conservation is the slow and laborious unfolding of a new relationship between people and land." Aldo Leopold, 1940

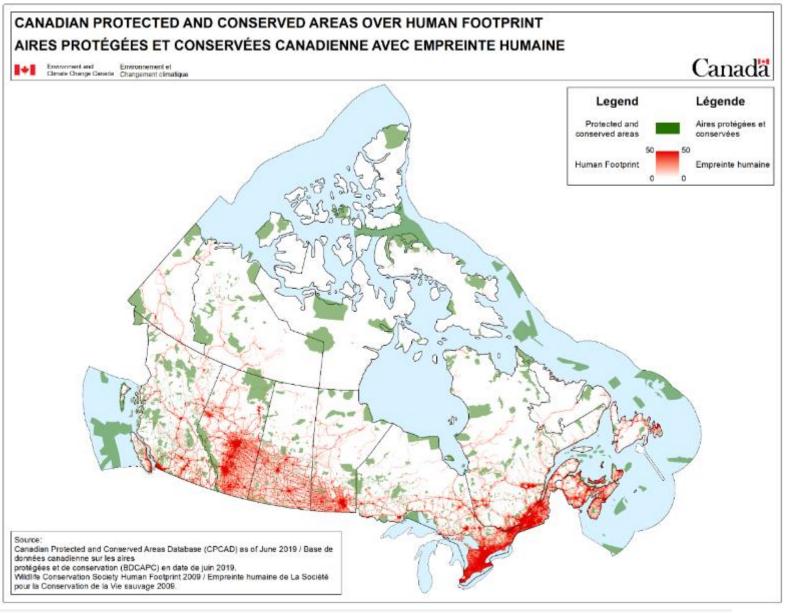
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THE CANADIAN CONTEXT: ANTHROPOGENIC FOOTPRINT

38 million people live in Canada, 90% within 100 kilometres of the border with the USA.





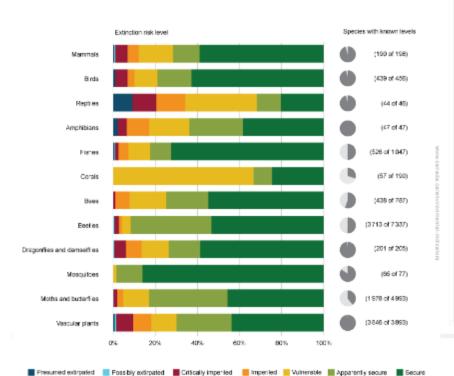
RARE SPECIES

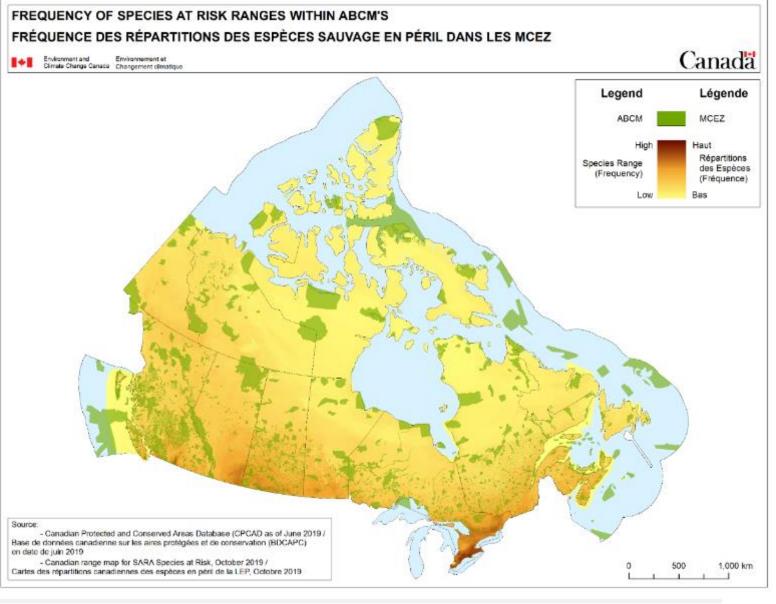
Species in Canada were assessed in 2015 80% are ranked as secure.

10% are vulnerable.

10% are imperiled

Less than 1% or 125 species are presumed extirpated (no longer found in Canada)



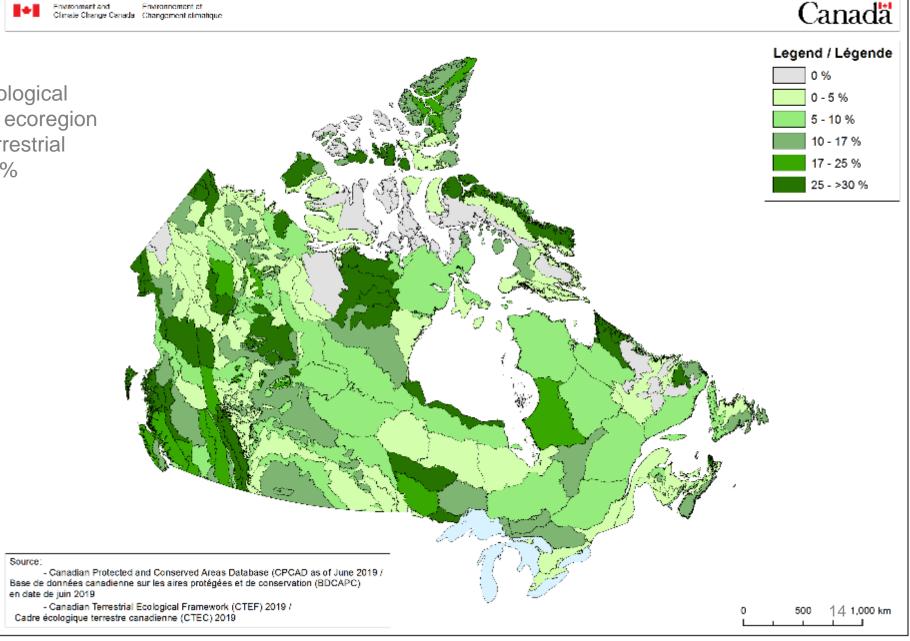


POURCENTAGE DE MCEZ TERRESTRES PAR ÉCORÉGIONS (2019) Climate Change Canada - Changement climatique

PERCENTAGE OF TERRESTRIAL ABCM BY ECOREGIONS (2019)

ECOLOGICAL REPRESENTATION

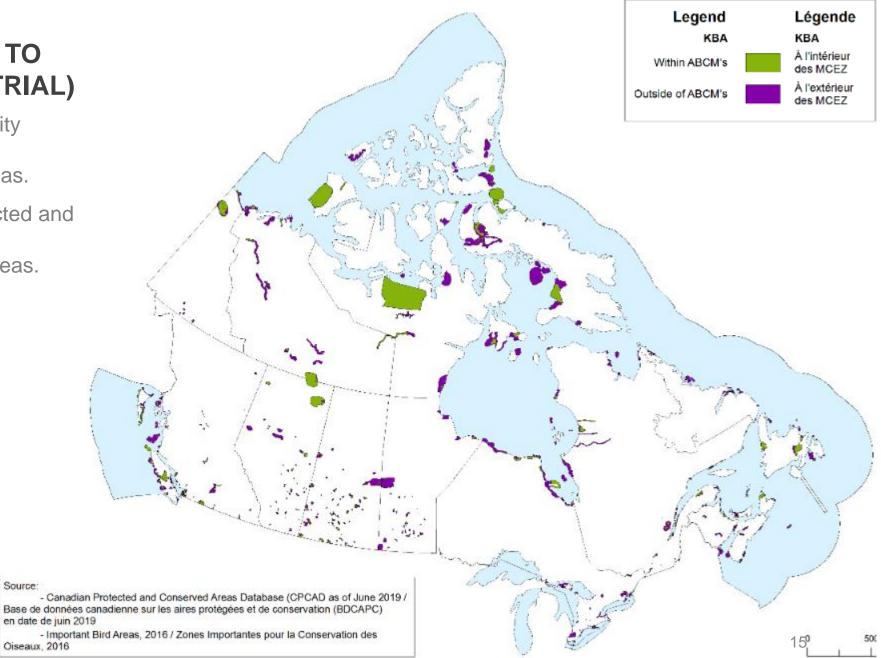
Canada recently refined its ecological database to allow reporting by ecoregion (instead of ecozone). Many terrestrial ecosystems have achieved 30% protection.



AREAS OF IMPORTANCE TO BIODIVERSITY (TERRESTRIAL)

Presently 45% of all Key Biodiversity Areas in Canada are found within protected and other conserved areas.

Eleven percent of Canadian protected and other conserved areas protect 181,961km2 of Key Biodiversity Areas.





CARBON STORAGE WITHIN ABCM LE STOCKAGE DU CARBONE DANS LES MCEZ

Climate Change Canada Changement climatique

Canada

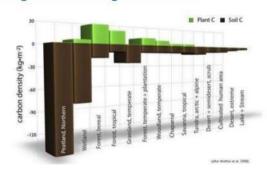
Canadian landscapes, particularly wetlands and peatlands store a significant amount of the global soil organic carbon.

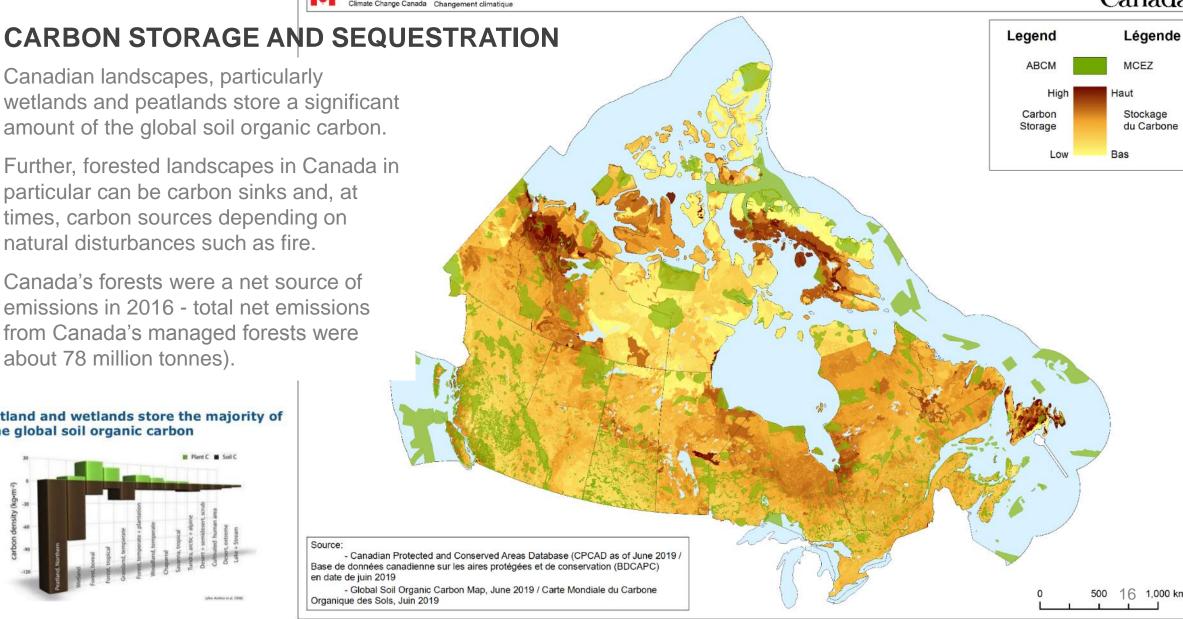
Further, forested landscapes in Canada in particular can be carbon sinks and, at times, carbon sources depending on natural disturbances such as fire.

Canada's forests were a net source of emissions in 2016 - total net emissions from Canada's managed forests were about 78 million tonnes).

Source:

Peatland and wetlands store the majority of the global soil organic carbon



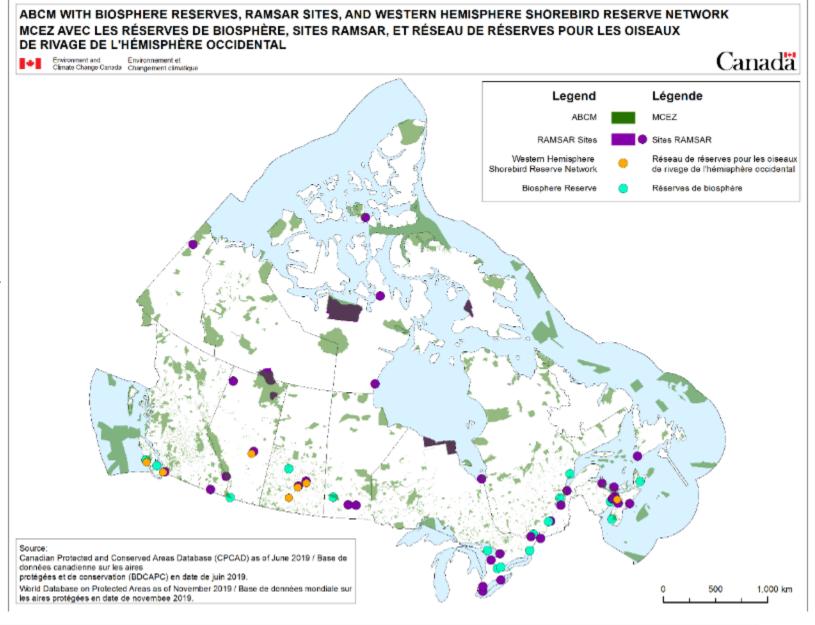


BIOSPHERE RESERVES, RAMSAR SITES AND MORE

Five of Canada's 18 Biosphere Reserves have the majority of their area within a protected or other conserved area (28%).

Twenty of Canada's 37 Ramsar wetlands of international importance have the majority of their area within a protected or other conserved area (54%).

Six of Canada's 7 Western Hemisphere Shorebird Reserve Network (WHSRN) sites have the majority of their area within a protected or other conserved area (86%).



Mainstreaming biodiversity and the connection with ABCM

CONSIDERATIONS

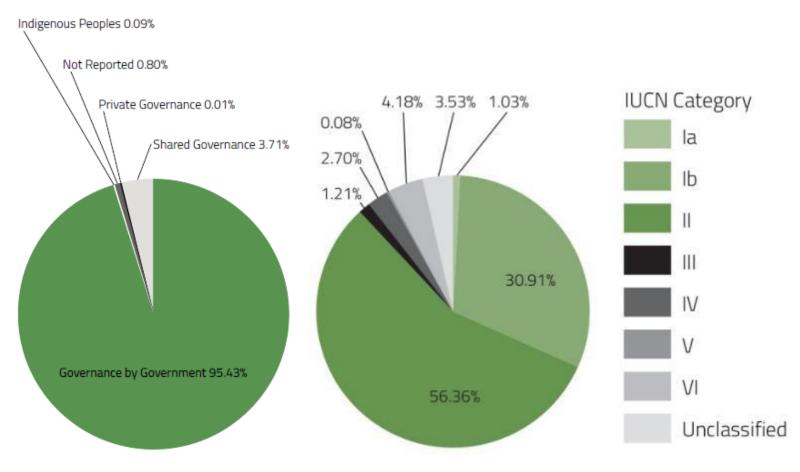
A BALANCED ABCM PORTFOLIO COULD INCLUDE MORE STEWARDSHIP AREAS

Stewardship is the careful and responsible management biodiversity.

Regulated protected areas are one part of the portfolio of future Canadian investments vis à vis ABCM.

Well managed forests, grasslands and oceans can achieve the effective conservation of biological diversity.

These stewardship areas may be an important area for growth in Canada vis à vis ABCM.



Proportion of Canada's protected areas by governance type (2015) – terrestrial and marine

Canadian protected areas (terrestrial and marine) by International Union for the Conservation of Nature management category (2015)

THE CANADIAN CONTEXT: MANAGED FORESTS

95% of Canada's managed forests are certified to third-party standards of sustainable forest management.

91% of Canada's managed forests have long-term management plans in place that have biodiversity considerations.



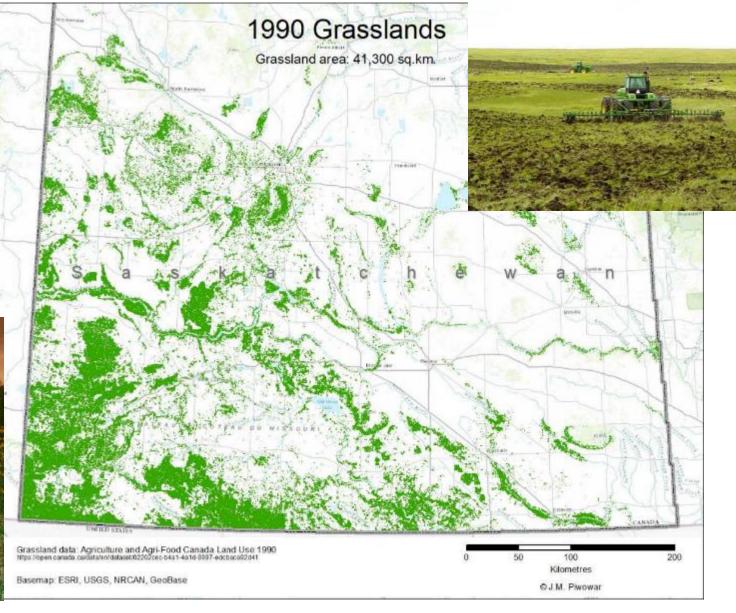




THE CANADIAN CONTEXT: NATIVE GRASSLAND

In the remaining native grasslands in Canada a market incentive could be provided to producers (ranchers) who are grazing cattle on native grasslands by certifying their product as sustainable or 'biodiversity friendly' and returning a cash premium to ranchers for their product.





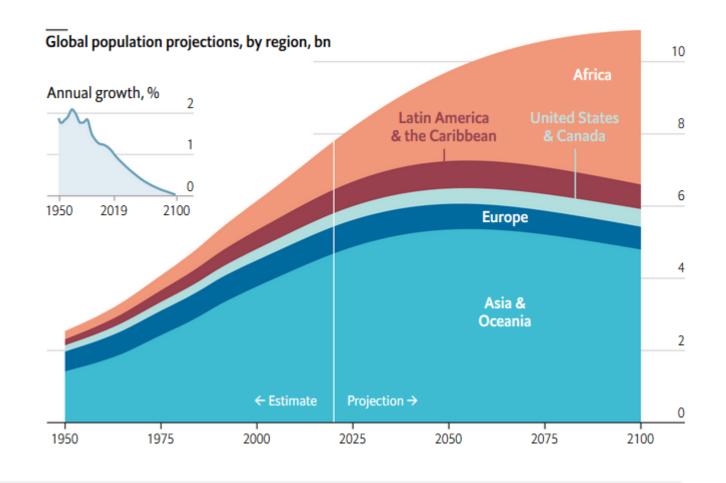
THE FUTURE FOR PROTECTION AND CONSERVATION

Category 1 and 2 protected areas are a significant part of the Canadian ABCM portfolio of conservation investments.

Stewardship areas – Category V and VI and OECM – will be part of a balanced portfolio of conservation investments in the future.

Stewarded ... Secured





THANK YOU

Olaf Jensen

Protected Areas Program Director Canadian Wildlife Service **Environment & Climate Change Canada** 351 Boulevard Saint Joseph Gatineau, Quebec (Canada) K1A 0H3 (819)938-4025 Olaf.jensen@Canada.ca