Linking ocean carbon observation to effective climate targets

Anya M. Waite & Toste Tanhua

CoP26, Glasgow, Scotland

1 November 2021

The Global Ocean Observing System

OCEAN FRONTIER INSTITUTE

ontrol

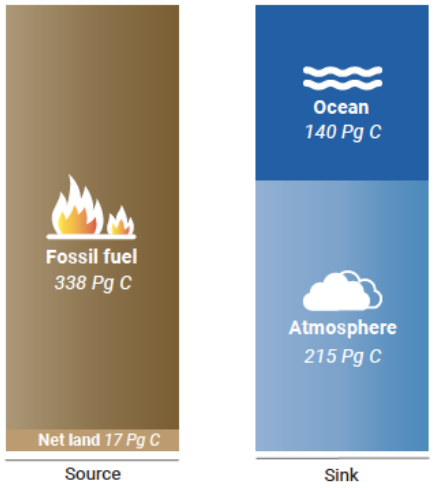
100x
Heat of atmosphere

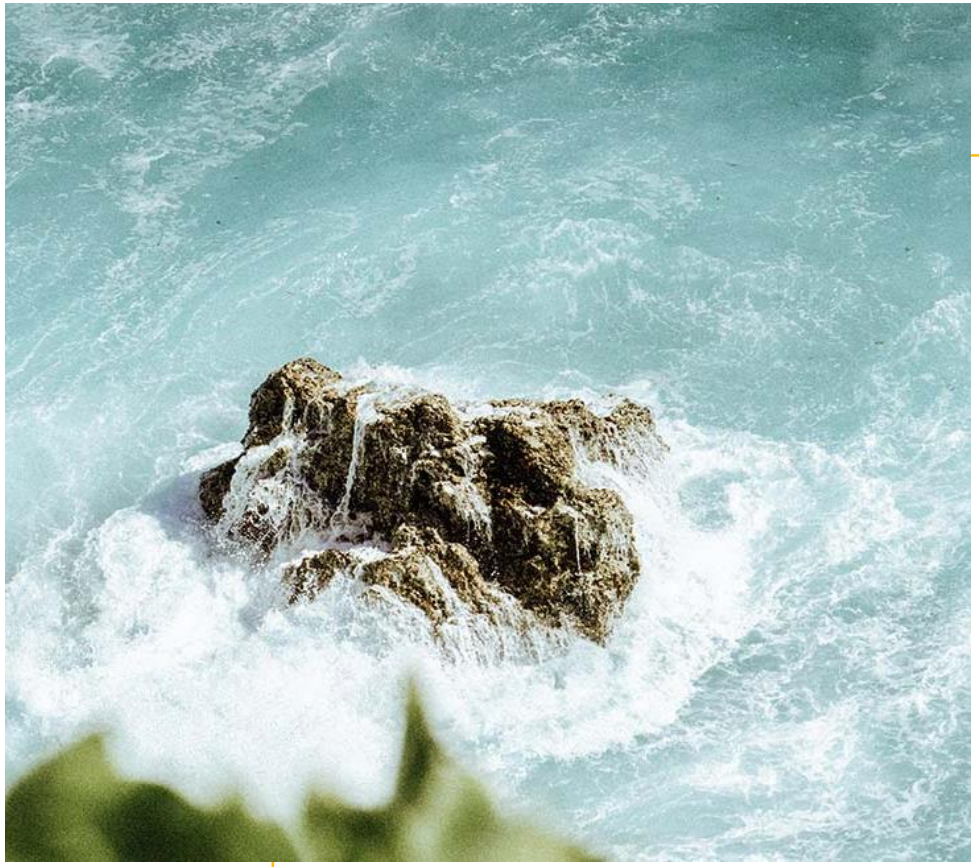
50x
Carbon of atmosphere

Linking ocean carbon observation to effective climate targets

Land-based emissions targets fail to recognize the ocean's carbon absorption:

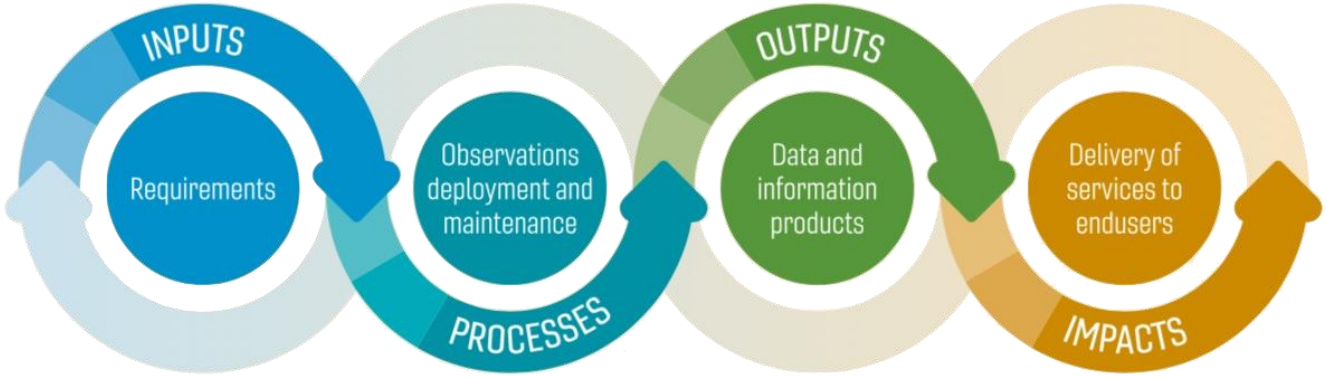
40% fossil fuel emissions ..

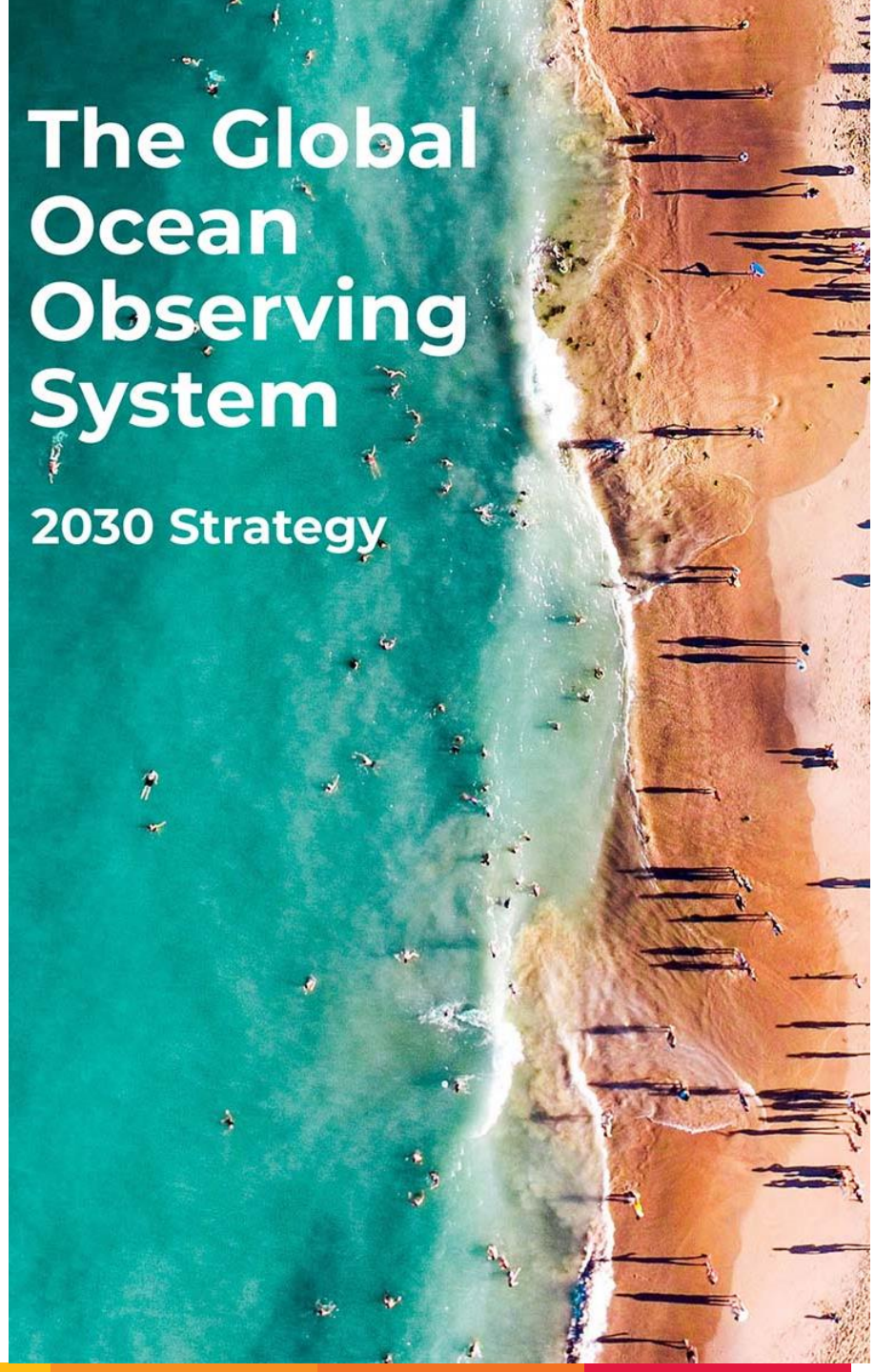


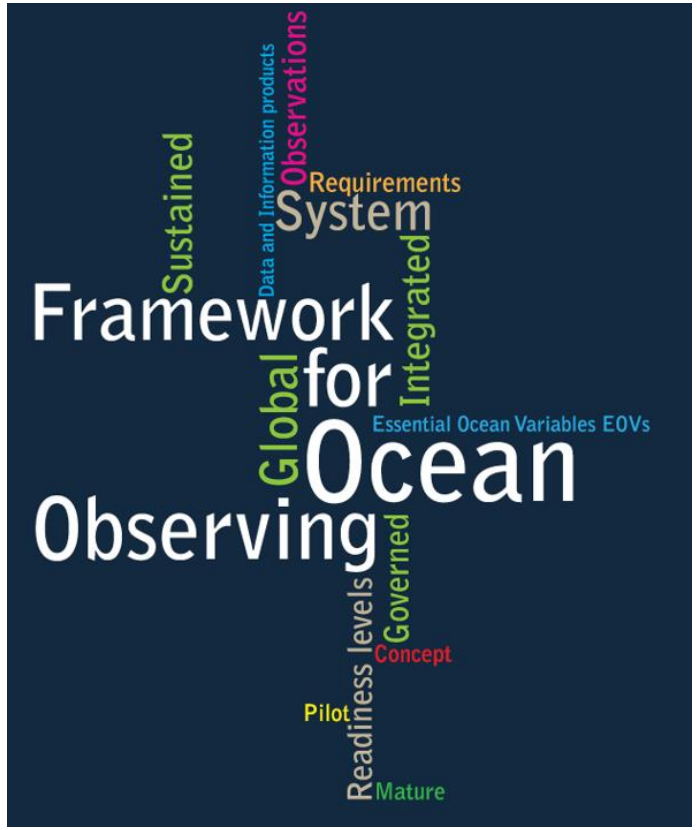


.. But will it continue?

The Global Ocean Observing System (GOOS) coordinates a long-term, sustained ocean observing system

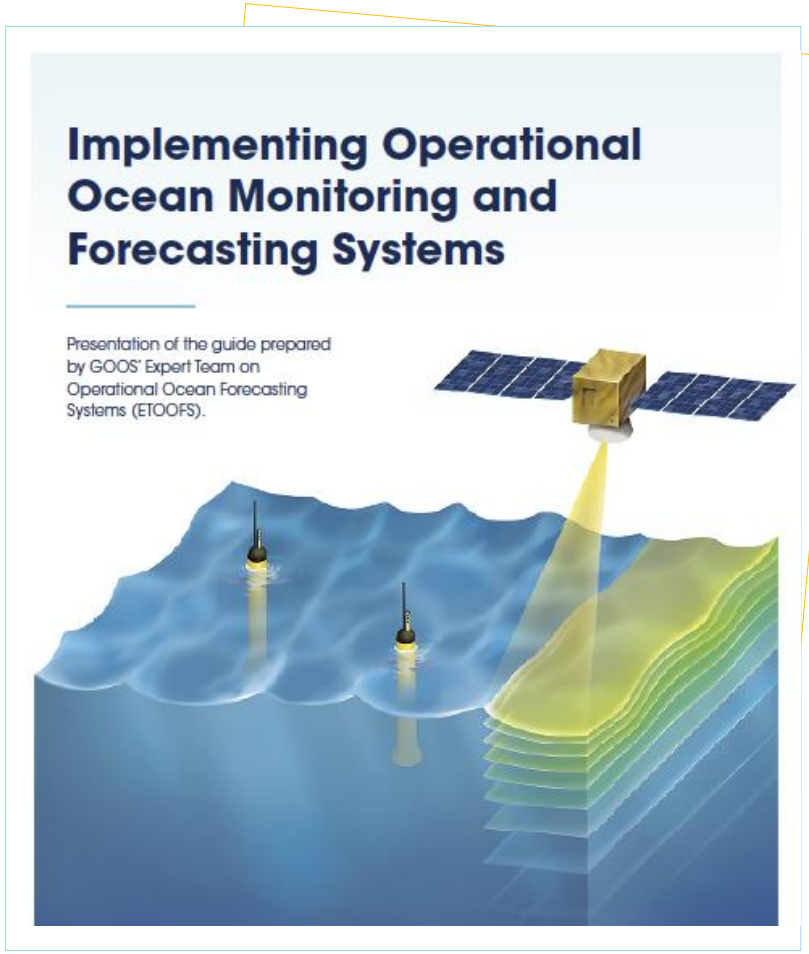


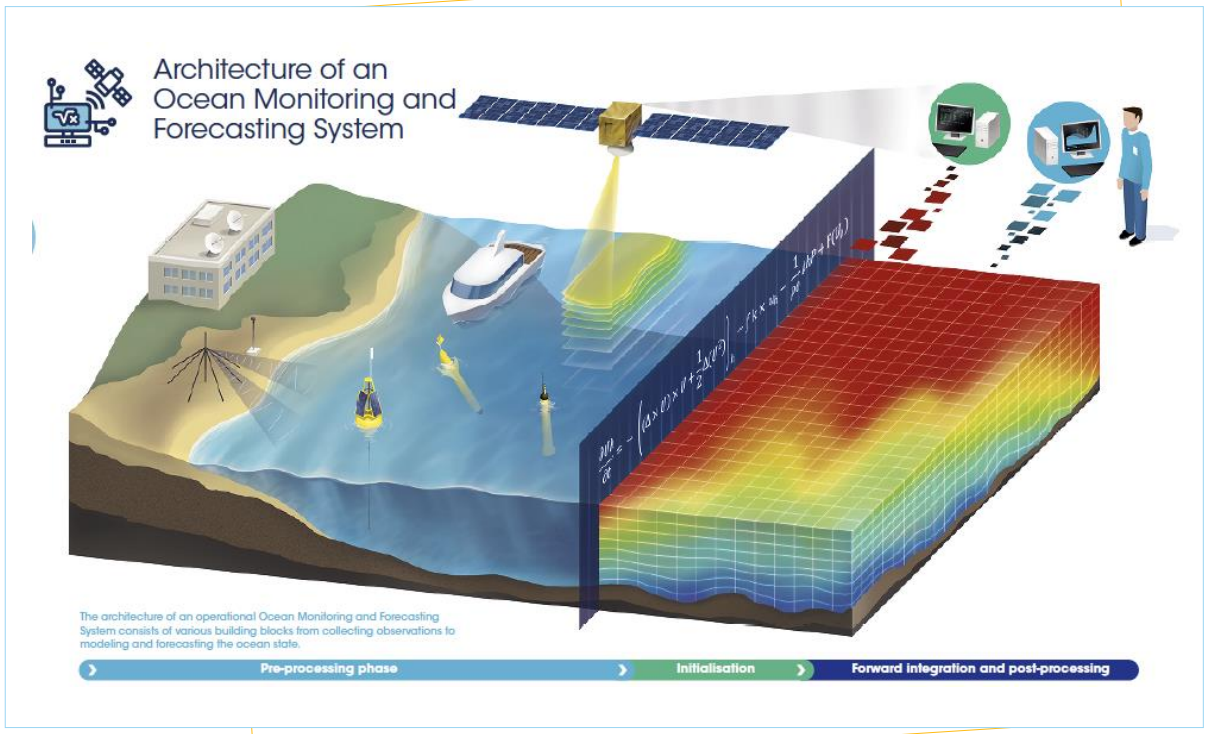




The global community is mature and ready to act

Linking ocean carbon observation to effective climate targets





Community is well prepared to design sustained carbon observations

Policy Makers
Philanthropists
Governments
Foundations

THE OCEAN IS MISSING!

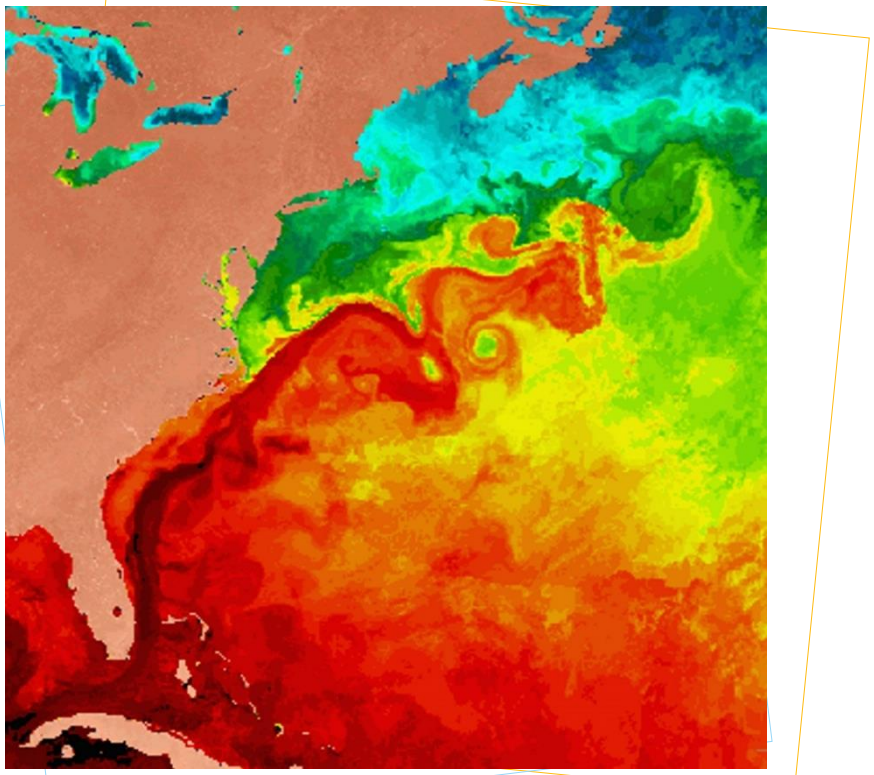
G7 Nature Compact
CoP26 Glasgow

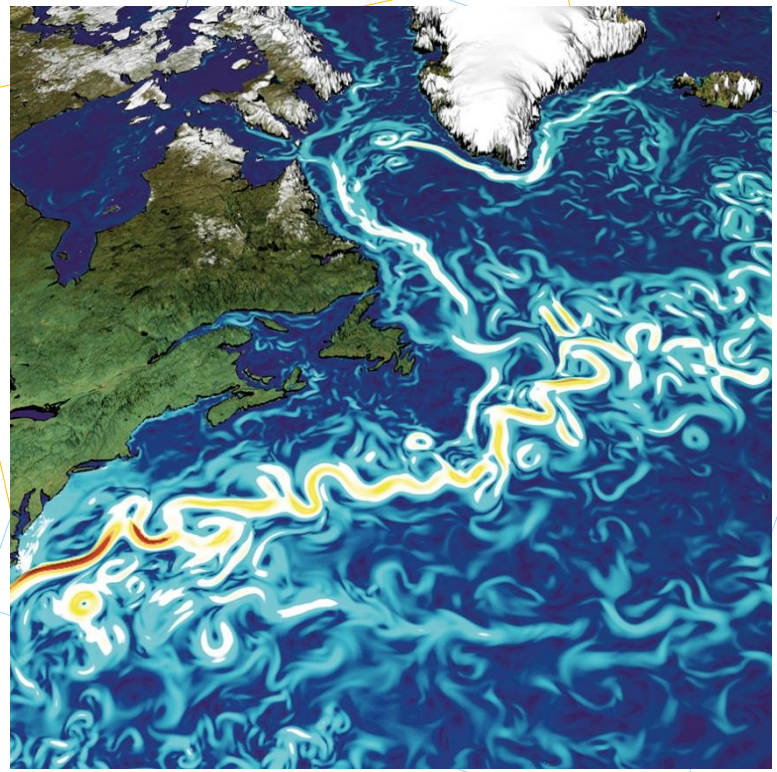
Add the ocean to solve for net zero!

THE OCEAN IS MISSING!

.. with North Atlantic as a global exemplar

North Atlantic Carbon Observatory (NACO)





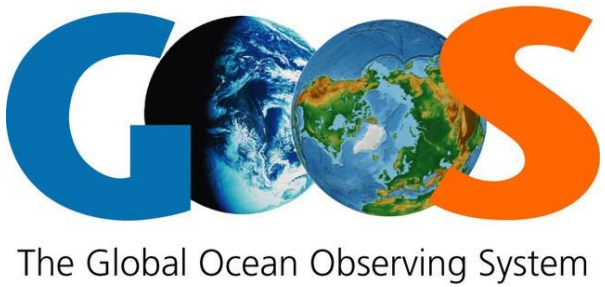
AN EXEMPLAR

Linking ocean carbon observation to effective climate targets

Example:

Ocean innovation in CDR urgently needs an ocean baseline

THANK YOU!



Dr. Anya Waite
anya.waite@oceanfi.ca

Dr. Toste Tanhua
ttanhua@geomar.de