

MAIA Marine Accounting - May. 19, 2021
Ocean Accounting, much more than ecosystem accounting

Michael Bordt

Adjunct Professor | *Professeur Auxiliaire*
Department of Geography, Environment and Geomatics
Le Département de Géographie, Environnement et Géomatique
uOttawa

Senior Economic Advisor, Ocean Accounts, DFO
Conseiller principal en économie, comptes des océans, Pêches et Océans Canada
Co-chair, Global Ocean Accounts Partnership (GOAP)
Partenariat mondial pour la comptabilité océanique

mbordt@gmail.com

#oceanaccounts

<https://www.oceanaccounts.org/>



Ocean Accounting - Origins

1992: SNA **not accounting for** natural inputs to economy → SEEA Central Framework

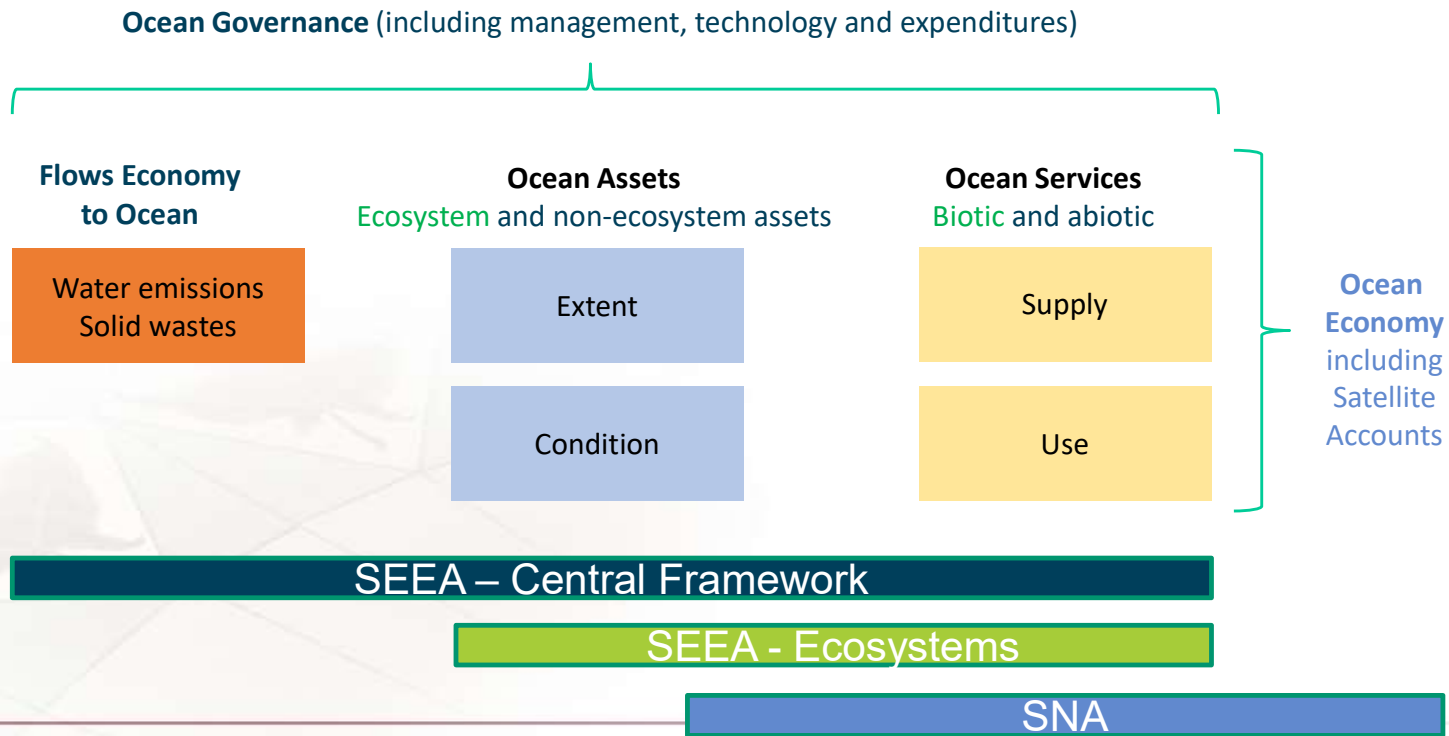
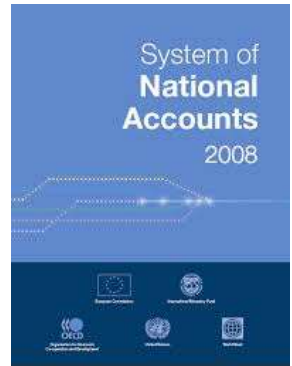
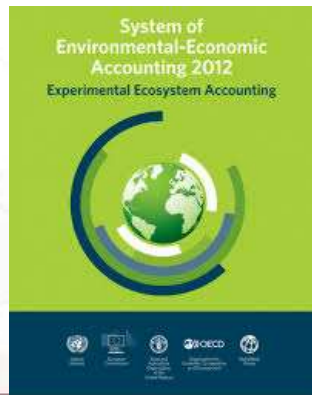
2010: SEEA Central Framework **not accounting for** non-owned assets and ecosystem services → SEEA Ecosystem Accounting

2017: together, SNA, SEEA-CF, SEEA-EEA **not addressing** ocean economy, sustainable use of the ocean → ocean accounts





Ocean accounts – Main components (in tables and maps)





What do we do? (see References)

- Global Ocean Accounts Partnership (GOAP)
 - High Level Panel for a Sustainable Ocean Economy (GOAP is *Action Coalition*)
 - Three global dialogues; 100+ statisticians, scientists, policy experts
 - 19 members (governments, research institutes)
 - For Terms of Reference: see <https://www.oceanaccounts.org/>
- Fisheries & Oceans Canada/Statistics Canada: Ocean Accounts Pilot
 - Improving ocean economy statistics
 - Integrating ocean ecosystem data (especially seagrass and eelgrass)
 - Compiling bibliography of data and research (coding to framework)
- International community
 - Pilot studies also in Australia, China, Malaysia, Samoa, Thailand, Vietnam...
 - SEEA Ocean for 2023
 - Contributing to Decade of Ocean Science; SCBD Global Biodiversity Framework...

Conclusions



- To better address ocean sustainability
 - Ocean accounting aims to bring coherence to a fragmented field
 - By bringing **convergence** among concepts and classifications
 - By applying international **standards**
 - and by opening opportunities for **linking** individual research areas
 - Maybe accountants **can** save the ocean

References



- Convention on Biological Diversity. nd. Preparations for the Post-2020 Biodiversity Framework. <https://www.cbd.int/conferences/post2020>
- Fauziah, S. H., Rizman-Idid, M., Cheah, W., Loh, K. H., Sharma, S., NoorMaiza, M. R., Bordt, M... & George, M. (2021). Marine debris in Malaysia: A review on the pollution intensity and mitigating measures. *Marine Pollution Bulletin*, 167, 112258. <https://doi.org/10.1016/j.marpolbul.2021.112258>
- GOAP (2020) Technical Guidance on Ocean Accounting V0.9. <https://www.oceanaccounts.org/technical-guidance-on-ocean-accounting-2/>
- Hein, L., Bagstad, K. J., Obst, C., Edens, B., Schenau, S., Castillo, G., ... & Caparrós, A. (2020). Progress in natural capital accounting for ecosystems. *Science*, 367(6477), 514-515. <http://doi.org/10.1126/science.aaz8901>
- United Nations Decade of Ocean Science for Sustainable Development. nd. The Science we Need for the Ocean We want. <https://www.oceandecade.org/>
- United Nations, the European Commission, the Organisation for Economic Co-operation and Development, the International Monetary Fund and the World Bank Group. (2008). System of National Accounts 2008. <https://unstats.un.org/unsd/nationalaccount/sna2008.asp>
- United Nations, European Commission, Food and Agriculture Organization, International Monetary Fund, OECD, & World Bank. (2014a). System of Environmental-Economic Accounting 2012 - Central Framework. New York, NY: United Nations Statistics Division. Retrieved from https://unstats.un.org/unsd/envaccounting/seeaRev/SEEA_CF_Final_en.pdf.
- United Nations, European Commission, Food and Agriculture Organization, OECD, & World Bank. (2014b). System of Environmental-Economic Accounting 2012 - Experimental Ecosystem Accounting. New York, NY: United Nations Statistics Division. http://unstats.un.org/unsd/envaccounting/seeaRev/SEEA_CF_Final_en.pdf.

References



Related webinars and presentations:

- Michael Bordt (8:48) on ocean accounts and small-scale fishers (https://www.youtube.com/watch?v=TCNyX_hpGb4)
- Michael Bordt (24:57) Keynote on statistics and ocean accounts (<https://www.youtube.com/watch?v=qEBNkIP1vPY>)
- Ben Milligan (48:55) Keynote on governance and ocean accounts (<https://www.youtube.com/watch?v=4z-hWhWdIas>)
- Anthony Dvarskas (45:27) Keynote on science and ocean accounts (<https://www.youtube.com/watch?v=zuuH3kW2amM>)
- Second Global Dialogue on Ocean Accounts (April 20, 2021) recording: <https://www.oceanaccounts.org/second-global-dialogue-on-ocean-accounting/>

Australia Water and Environment ocean accounts pilot: <https://eea.environment.gov.au/accounts/ocean-accounts>

ESCAP Regional Ocean Accounts Platform <https://communities.unescap.org/environment-statistics/tools/regional-ocean-accounts-platform> (includes links to training materials, pilot studies, Global Ocean Data Inventory, workshops)

ESCAP at UN Statistical Commission (2021) side event “From experimental ocean accounts to SEEA Ocean” <https://www.unescap.org/events/2021/experimental-ocean-accounts-seea-ocean>

Fisheries and Oceans Canada. Overview of Canadian Ocean Accounts Pilot. <https://www.oceanaccounts.org/canadian-ocean-accounts-pilot/>