

Ministry of Infrastructure and Water Management



https://www.ospar.org/convention/the-north-east-atlantic

Natural capital accounting in the marine environment in The Netherlands and the North East Atlantic

Why are we interested? What has been done? Work in progress

Rob van der Veeren Netherlands, and cochair of OSPAR ICG ESA

Why is the Netherlands interested in natural capital accounts for the Dutch part of the North Sea?

- Dutch part of the North Sea is one of the most intensively used parts of the worlds oceans
- > European Marine Strategy Framework Directive requires sustainable use of the marine environment. What does that mean? How do you measure that?
- In the next decades, we plan to build many offshore windfarms. What are the impacts? And how can we best mitigate them?



Current use of the Norh Sea Ontwerp Programma Noordzee 2022-2027 (platformparticipatie.nl)





Why is the Netherlands interested in natural capital accounts for the Dutch part of the North Sea?

- The Dutch 'Monitor Brede Welvaart' is the reporting tool on our performance on the Sustainability Development Goals.
- The marine natural capital accounts should provide us with data and indicators for SDG 14 'Life below water'



https://www.un.org/sustainabledevelop ment/news/communications-material/



https://www.cbs.nl/-/media/ pdf/2022/20/2022ll11 _mbw_2022.pdf

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Why is the Netherlands interested in natural capital accounts for the Dutch part of the North Sea?

- In addition to 'standard' natural capital accounts, we will also work on biodiversity accounts
- They will give us an update of the Living Planet Index
- > Overall assessment for marine fauna, with disaggregation to:
 - Fish
 - Benthic habitats
 - Marine birds
 - Harbor porpoise



https://www.clo.nl/indicatoren/nl15 69-living-planet-index



http://www.panda.org/lpr





Meanwhile in the North East Atlantic...



What is happening in the North East Atlantic?

- OSPAR is the mechanism by which 15 Governments & the EU cooperate to protect the marine environment of the NE Atlantic
- > OSPAR applies ecosystem approach to the problems addressed
- Whereas in previous rounds of OSPAR Quality Status Reports monitoring data were presented more or less in silo's, the Quality Status Report 2023 tries to come with an integrated analysis:

DAPSIR framework







Why is OSPAR interested in natural capital accounting?

 On 1 October 2021 The North-East Atlantic Environmental Strategy 2030 was adopted



the objectives of OSPAR

Theme: To achieve productive and sustainably used seas

Strategic Objective 7: Ensure that uses of the marine environment are sustainable, through the integrated management of current and emerging human activities, including addressing their cumulative impacts.

S7.O3: By 2025 OSPAR will start <u>accounting for ecosystem</u> <u>services and natural capital</u> by making maximum use of existing frameworks in order to recognise, assess and consistently account for human activities and their consequences in the implementation of ecosystem-based management.

26 September 2022

https://www.ospar.org/documents?v=46337



What has been done?

In 2021 Maria Granada Alarcon Blazquez produced first version of natural capital accounts for the North East Atlantic









OSPAR technical report Available at: <u>https://puc.overheid.nl/rijkswaterstaat/doc/PUC 657623 31/</u>



Some first lessons learned

- > Ecosystem extent account:
 - 2d maps are available, but the sea is 3d. Additional challenge!
- Condition account:
 - Lots of data available. What to choose?
 - Most data not spatially explicit
- > Ecosystem services:
 - First version presented data for a limited number of ecosystem services (6 months student project). Need for a new student to include more ecosystem services...



Work in progress

In the first version the following ecosystem services were included:

Fisheries, Aquaculture, Carbon Sequestration, Recreation	Generation of electricity from renewables, Oil and gas extraction, Minerals extraction	GOAP COAPERSHI
is ongoing to include more to the work done for the ecosystem services!) in spring	• • •	Accounting Parts orgl
in sping	Global Livity	12

- > Work is ongoing to include more ecosystem services
 - Link to the work done for the DAPSIR analyses (17 ecosystem services!)
 - Due in spring



17 Ecosystem Services in DAPSIR analyses



Can/should/do we want to include all of them in the natural capital accounts?



Another ongoing project

- How can natural capital accounts be used to support marine policies (NL and OSPAR)?
- > OSPAR
 - NEAES has 12 strategic objectives (and several operational objectives per strategic objective);
 - Works on a Regional Action Plan for Marine Litter and some other main topics (e.g. underwater noise, habitat protection)

> The Netherlands

- Is implementing the European Marine Strategy Framework Directive; thus performing various analyses and implementing various measures
- With a significant increase in offshore windfarms, maritime spatial planning is becoming more important as is a thorough analysis of the consequences
- Up until now there is limited knowledge on the benefits of marine protected areas

Where and how can Natural capital accounting help?



In December we will organise a (digital) workshop

And (of course) you will be invited



Just a dream....

