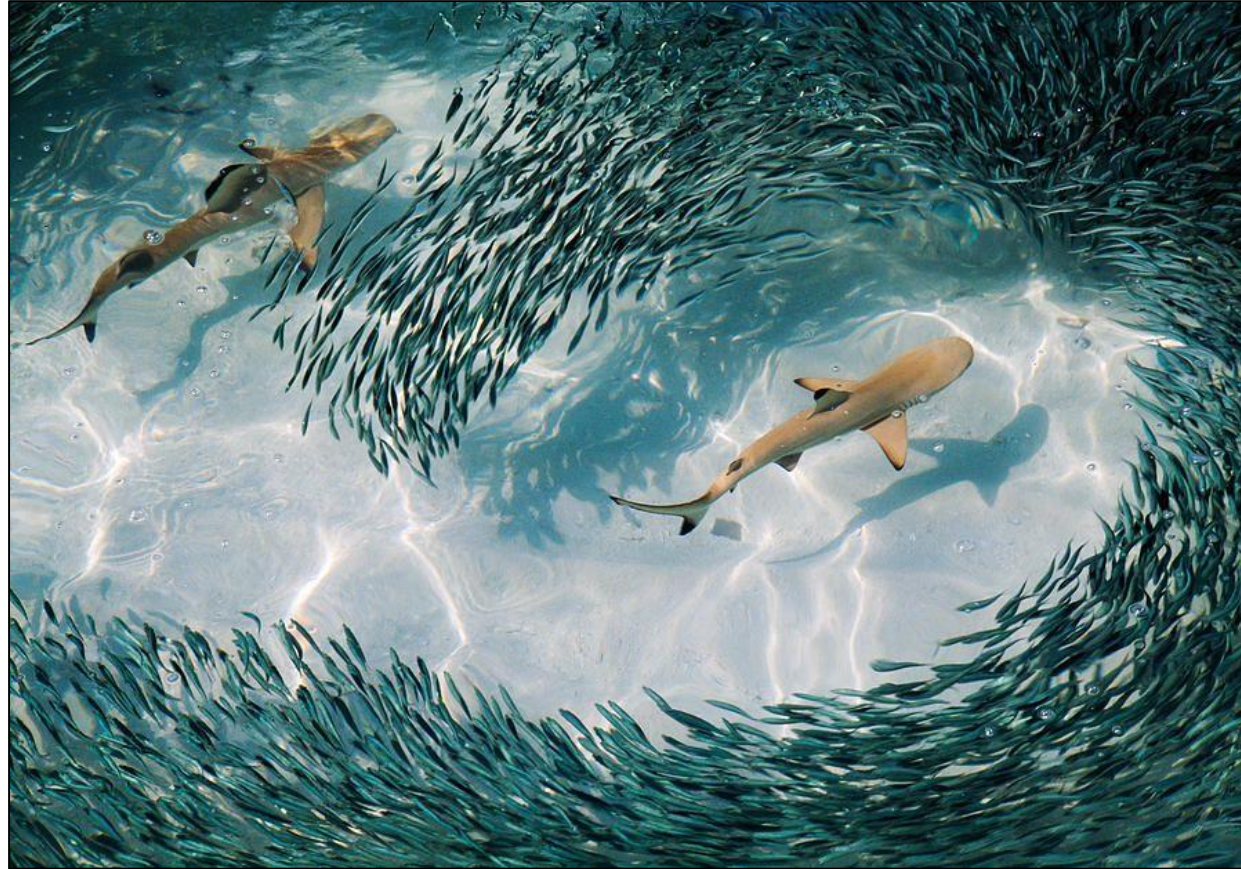


Leven in de oceanen

Onvoorstelbare diversiteit en ontstellende bedreiging



24 oktober 2022

Jolien Goossens

jolien.goossens@ugent.be

Hengelen om vissenlevens te redden

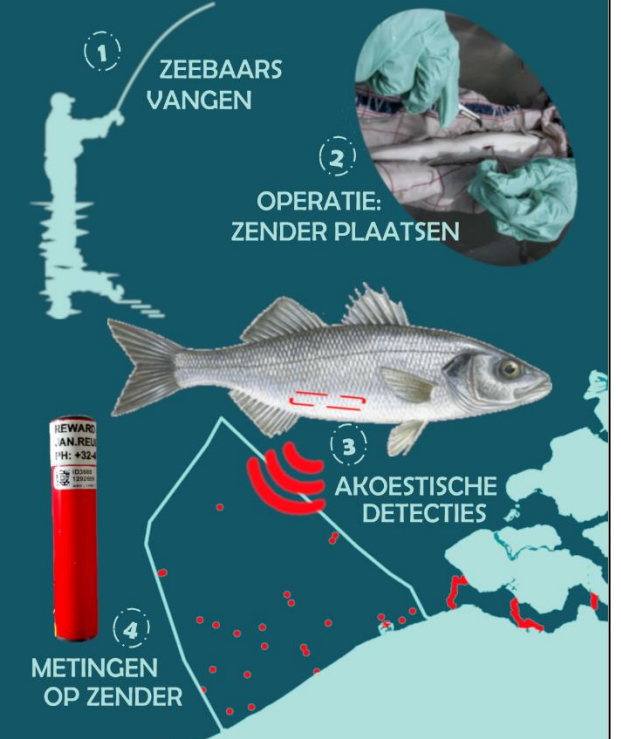


<https://www.eoswetenschap.eu/natuur-milieu/hengelen-om-vissenlevens-te-redden>



<https://kennismakers.be/mijn-job-als-mariene-bioloog>

ONDERZOEK ECOLOGIE & VERSPREIDING ZEEBAARS



BEWEGING IN KAART BRENGEN

VERSPREIDING & HABITATGEBRUIK
MIGRATIEPATRONEN
AANBEVELINGEN BEHEER



Belang van de oceaan



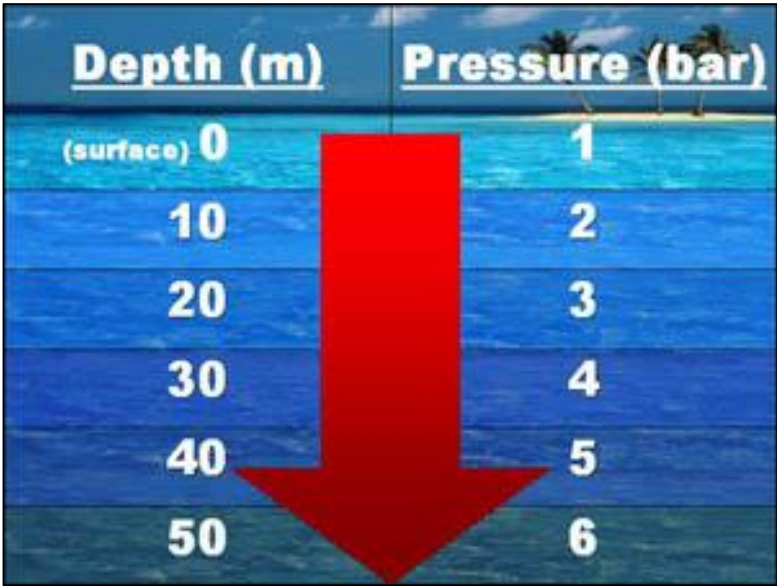
Impact van de mens



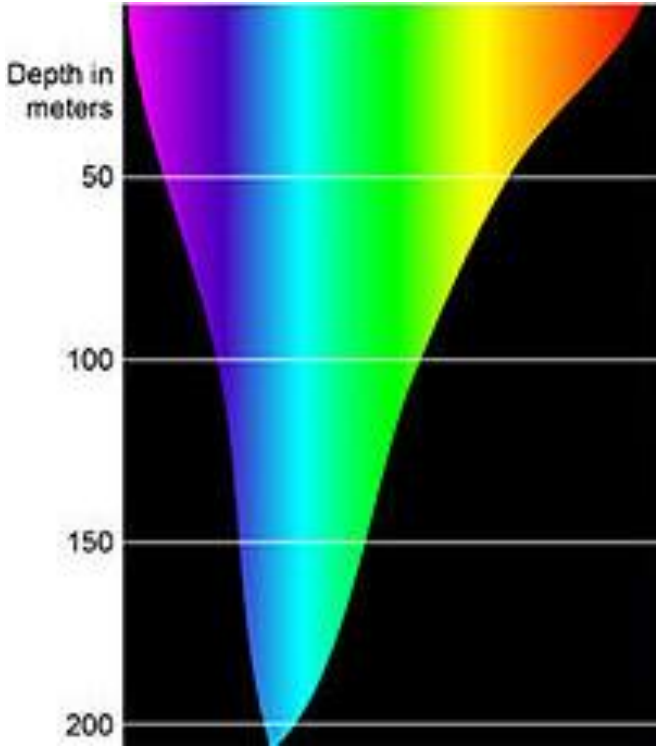
Verder leren



De oceaan verschilt sterk van het land als omgeving.



Druk



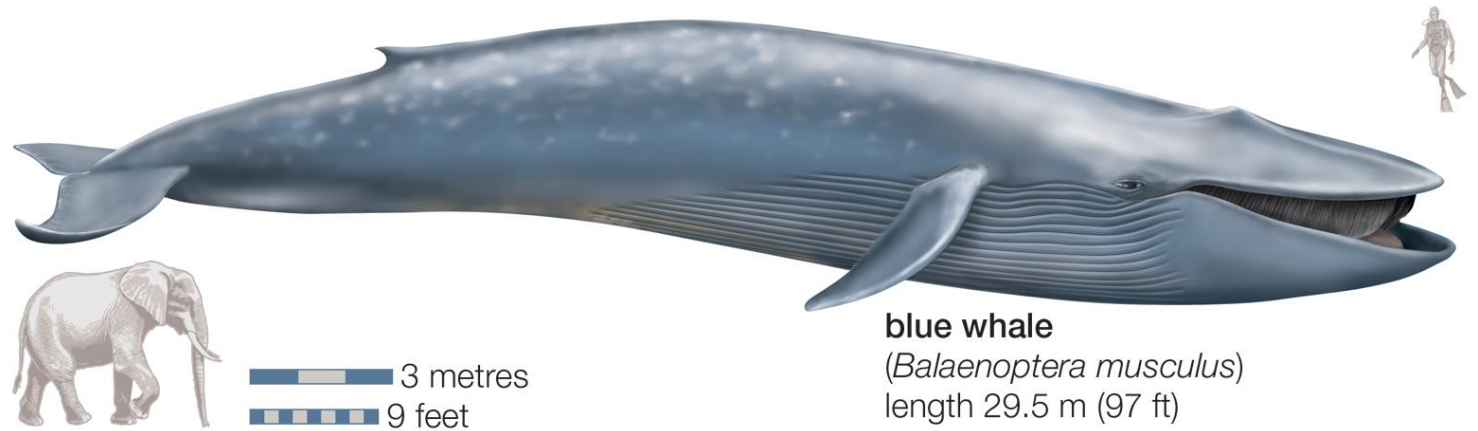
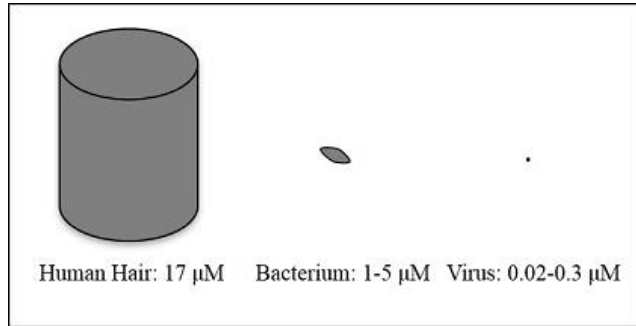
Kleur



Geluid



De vele gezichten van biodiversiteit in de zee

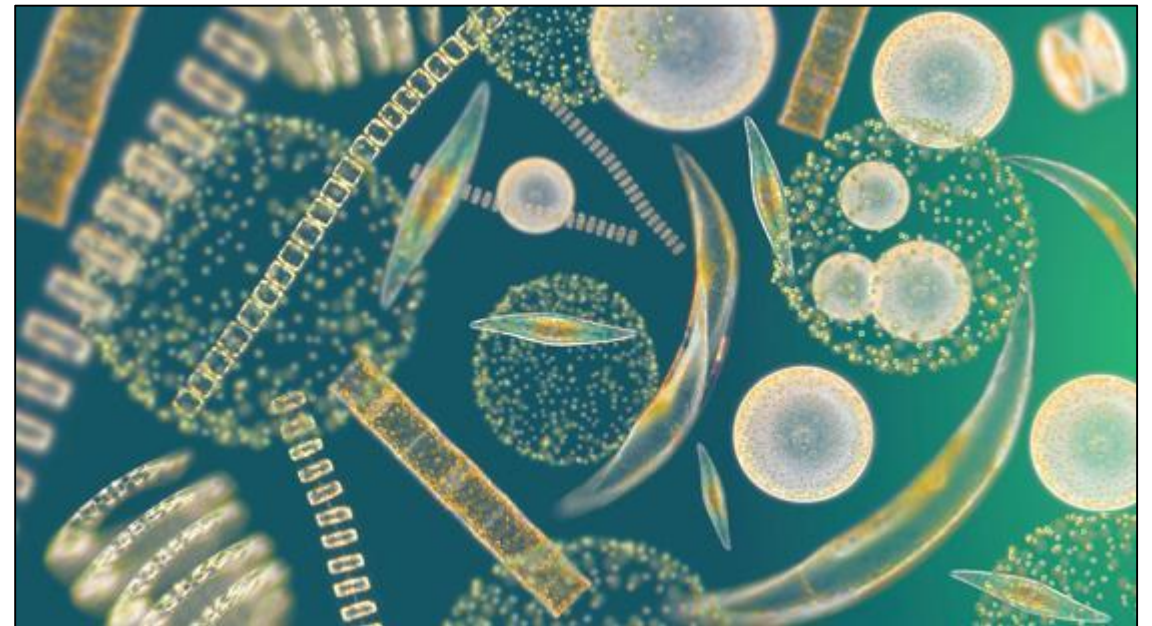


© 2010 Encyclopædia Britannica, Inc.

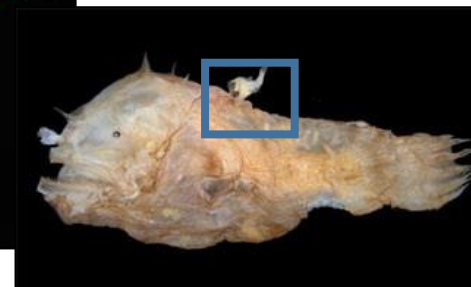
De vele gezichten van biodiversiteit in de zee

https://www.ted.com/talks/david_gallo_underwater_astonishments

De vele gezichten van biodiversiteit in de zee



De vele gezichten van biodiversiteit in de zee



De vele gezichten van biodiversiteit in de zee

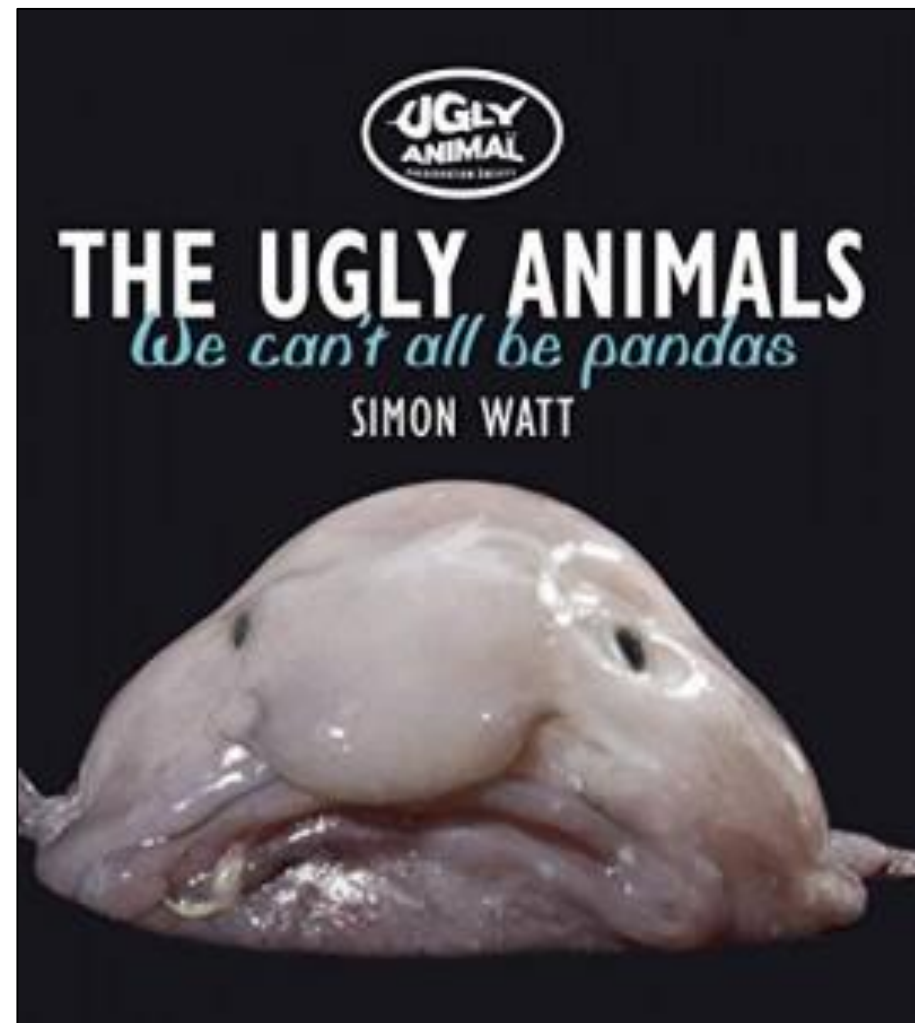


https://www.youtube.com/watch?v=KkY_mSwboMQ

De vele gezichten van biodiversiteit in de zee



De vele gezichten van biodiversiteit in de zee



Biodiversiteit uit zich ook in diversiteit van habitats.



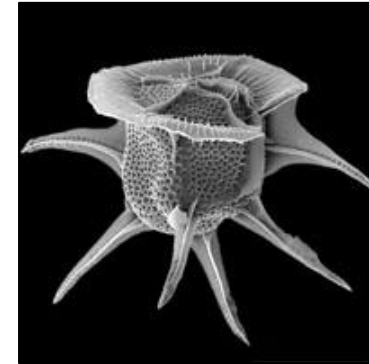
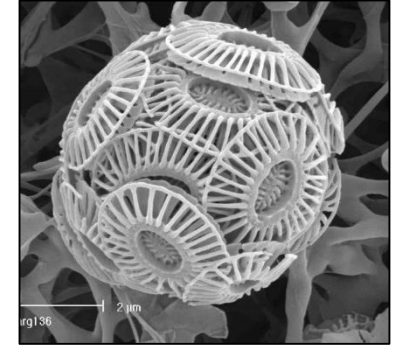
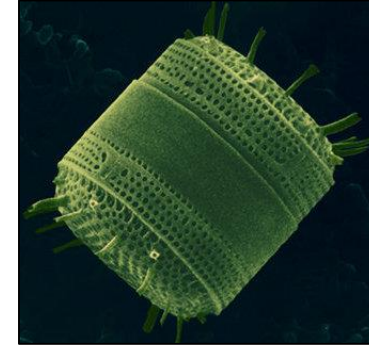
An underwater photograph showing sunlight rays (crepuscular rays) filtering down from the surface, illuminating the deep blue water. The rays are most prominent in the center, creating a bright, ethereal glow. The water surface is visible at the top, with gentle ripples and a bright reflection of the sun.

Wat leeft er in de grootste habitat van de oceaan?

De vele gezichten van biodiversiteit in de zee



Dierlijk plankton



Plantaardig plankton

De tweede long van de aarde



Source of Half Earth's Oxygen Gets Little Credit

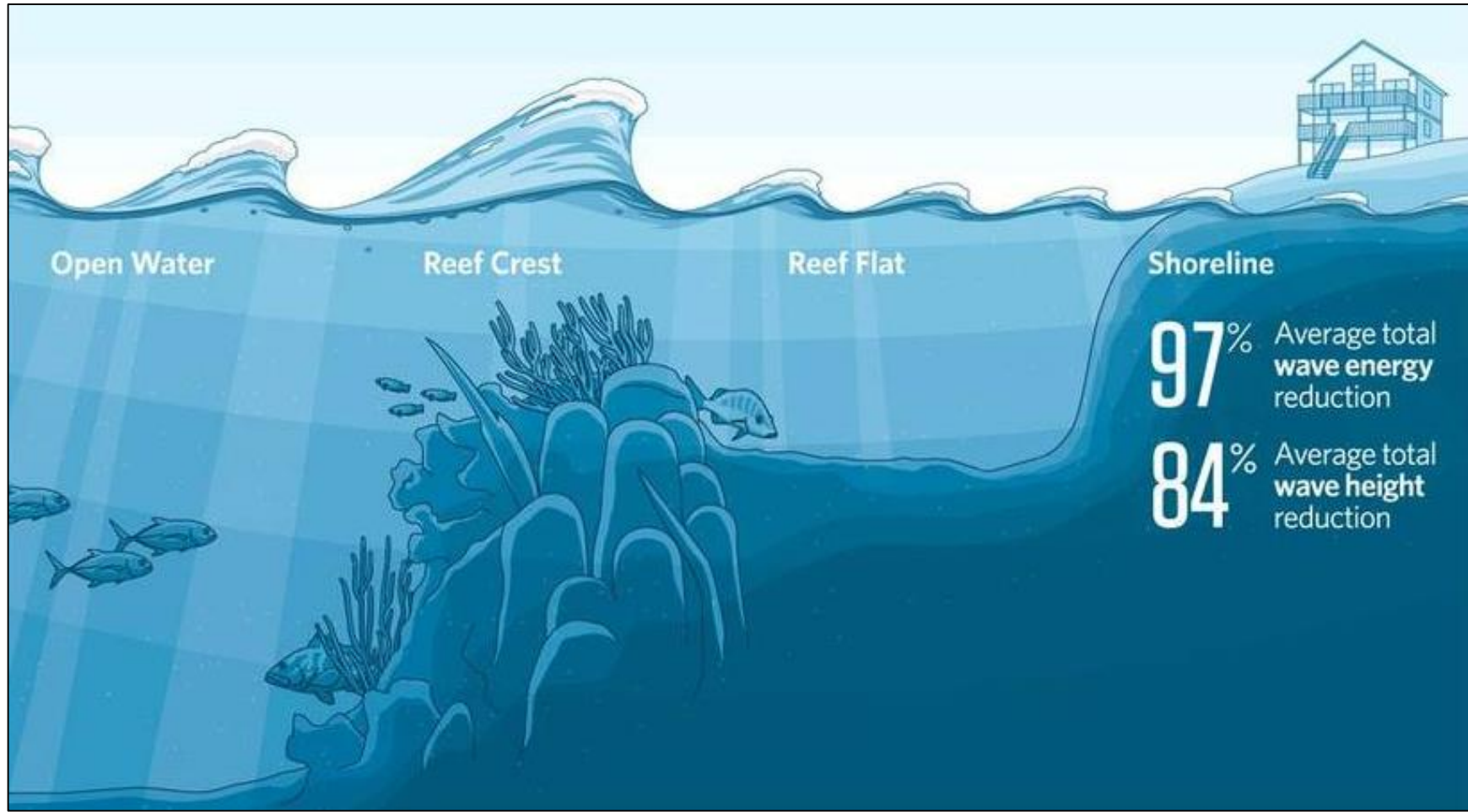
John Roach
for National Geographic News
June 7, 2004



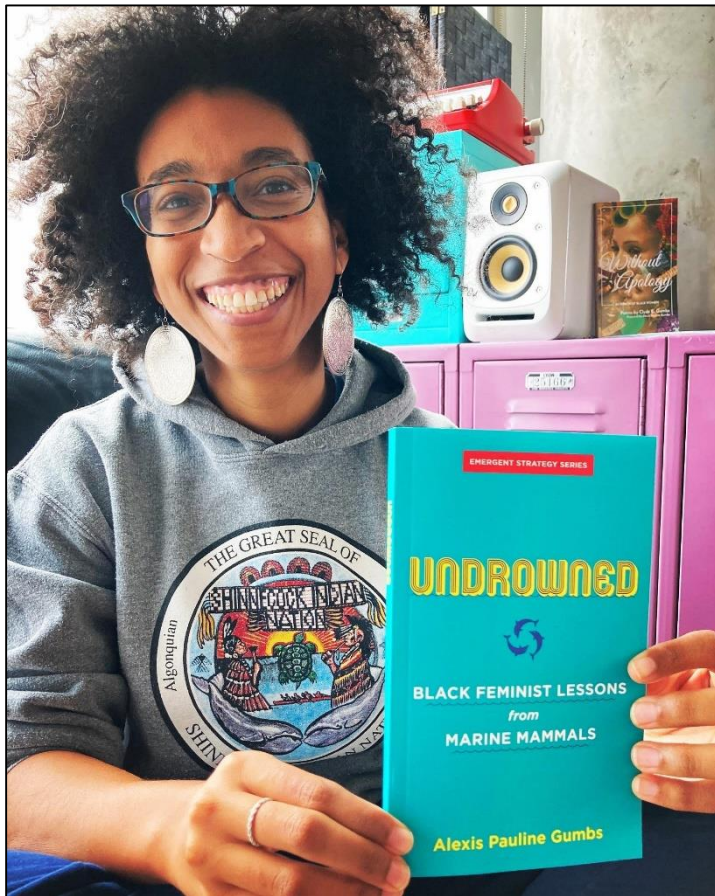
De oceaan is cruciaal voor de opslag van CO₂



Mariene ecosystemen zijn natuurlijke stormbeschermers



De zee als bron van kennis en inspiratie



SLAAPLIEDJE VOOR LAURA IN GIGARO

Herman De Coninck

Eén miljoen vissen houden zich stil
en daardoor slaapt de zee.
Moge ook jij een paar duizend gedachten
niet hebben, en daaronder slapen.

(Ik heb ze voor jou gehad. En soorten verdriet.
Ze waren de moeite niet.)
En moge je ontwaken door vogelgekwetter.
God is vrij vertaald in het Hebreeuws,
maar dit is naar de letter.



**WETENSCHAPPELIJKE
NASCHOLING**

ACADEMIEJAAR 2022-2023

Lezingen vinden plaats op maandag van 14u tot 16u
in cultuurcentrum CasinoKoksijde.
Uitgebreide info over de lezingen op www.casinokoksijde.be

KOOP JE TICKETS VANAF 29 AUGUSTUS AAN DE BALIE OF ONLINE VIA
WWW.CASINOKOKSIJDE.BE

Ecosysteemdiensten zijn diensten die de natuur levert voor de mens.

**Productie
diensten**

**Regulerende
diensten**

**Culturele
diensten**

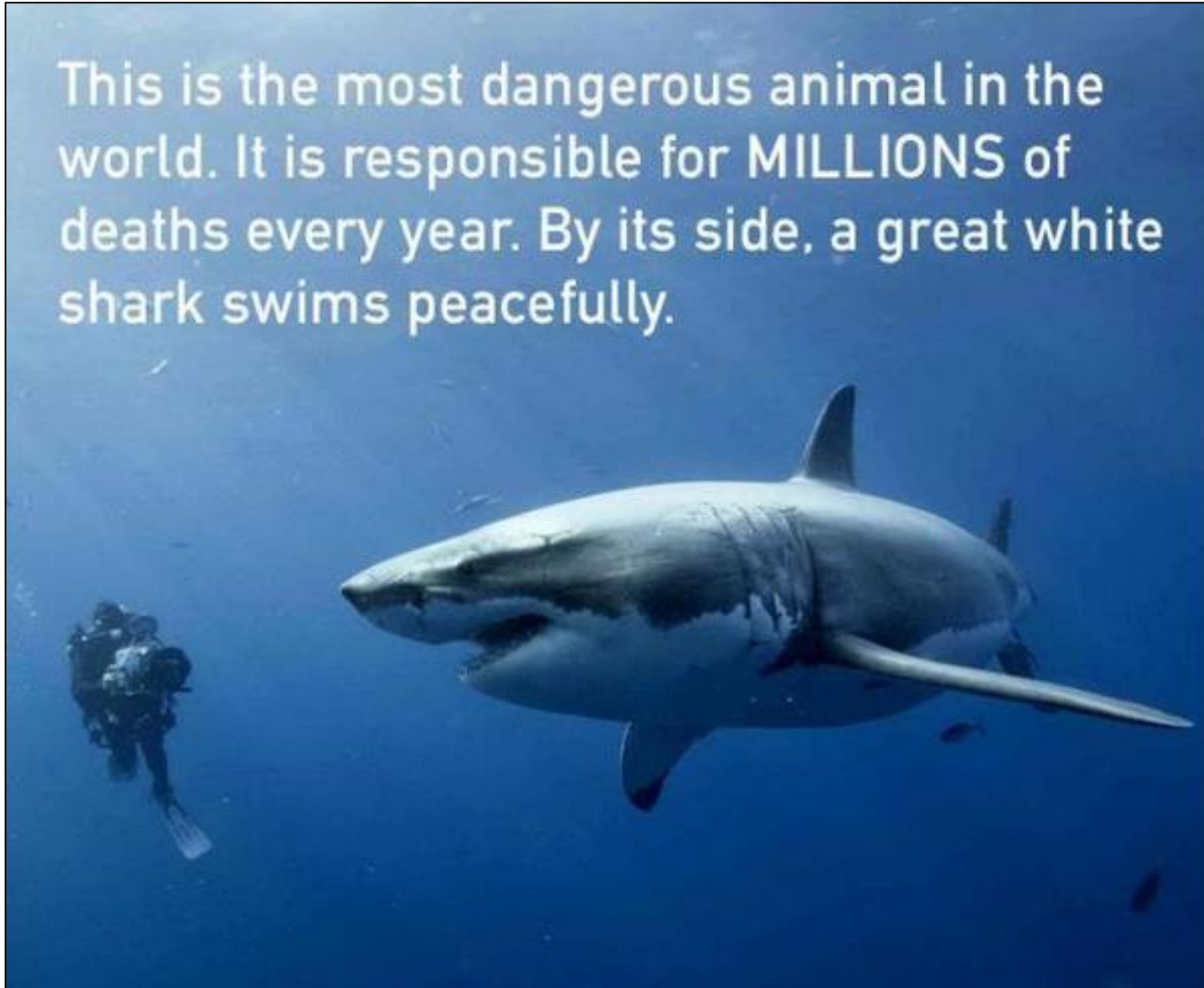
Ondersteunende diensten

Geldwaarde





This is the most dangerous animal in the world. It is responsible for MILLIONS of deaths every year. By its side, a great white shark swims peacefully.



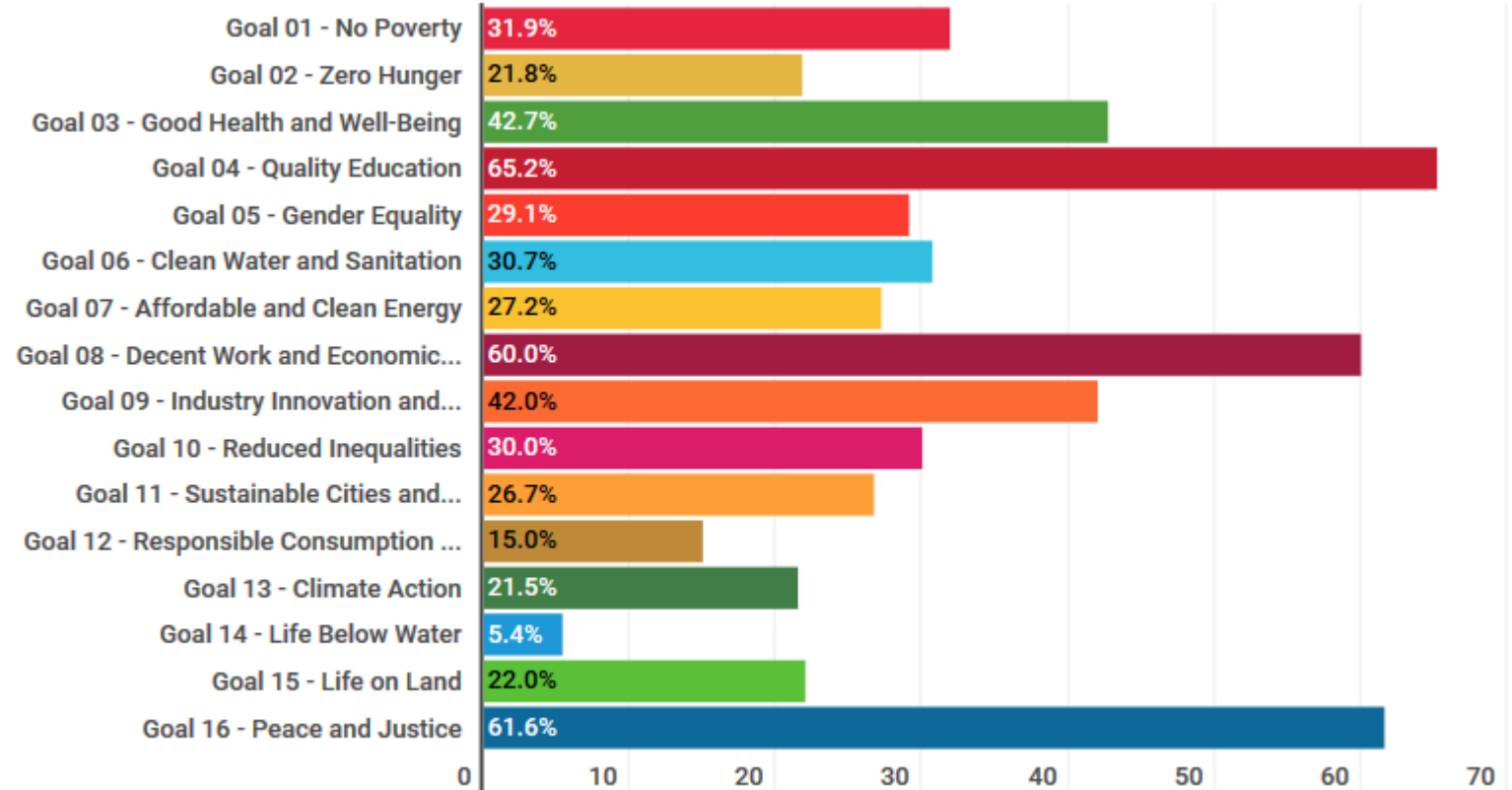
https://www.ted.com/talks/sylvia_earle_my_wish_protect_our_oceans



ENVIRONMENT

The U.N. Goal That Doesn't Get A Lot Of Respect

May 31, 2018 - 11:55 AM ET



14 LIFE BELOW WATER



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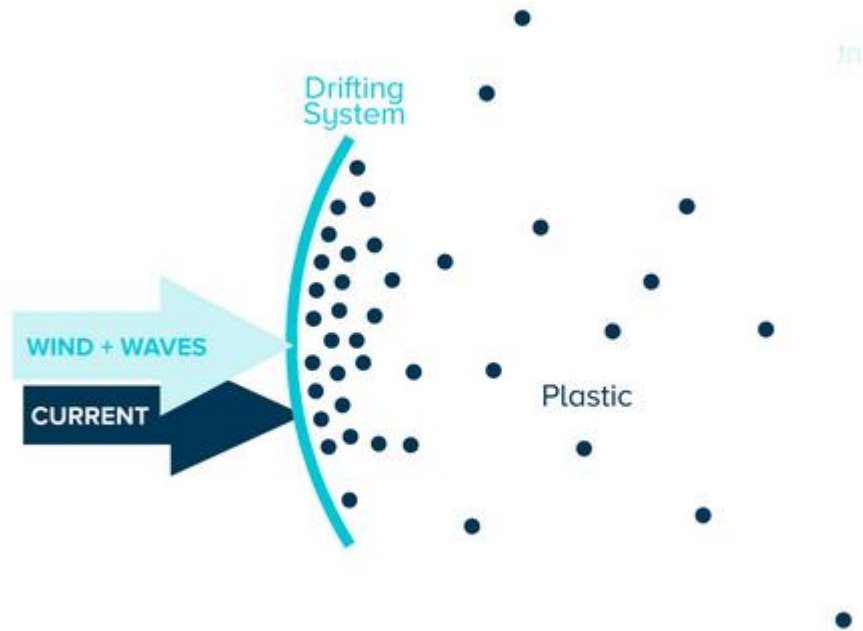
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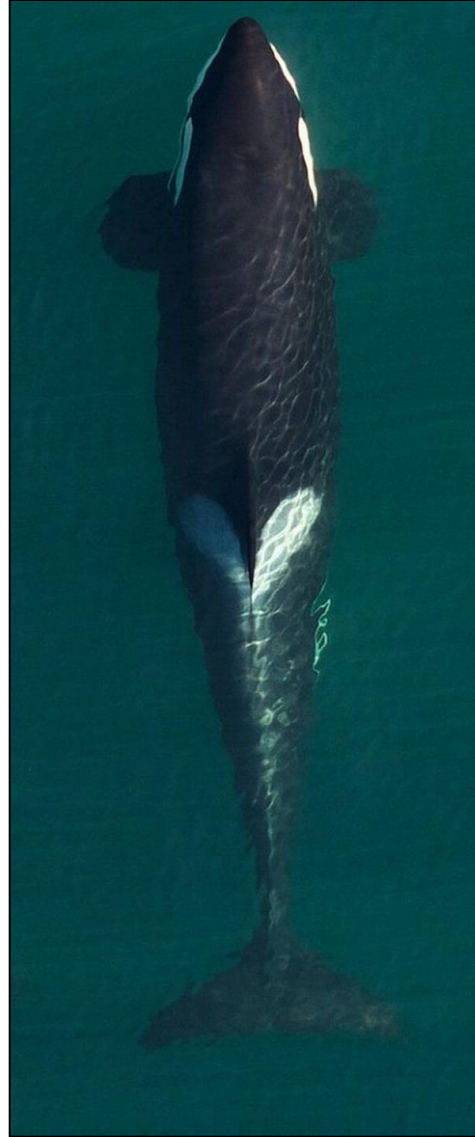
14.7 By 2030, increase the economic benefits to Small Island developing States and least developed countries from the sustainable use of marine resources

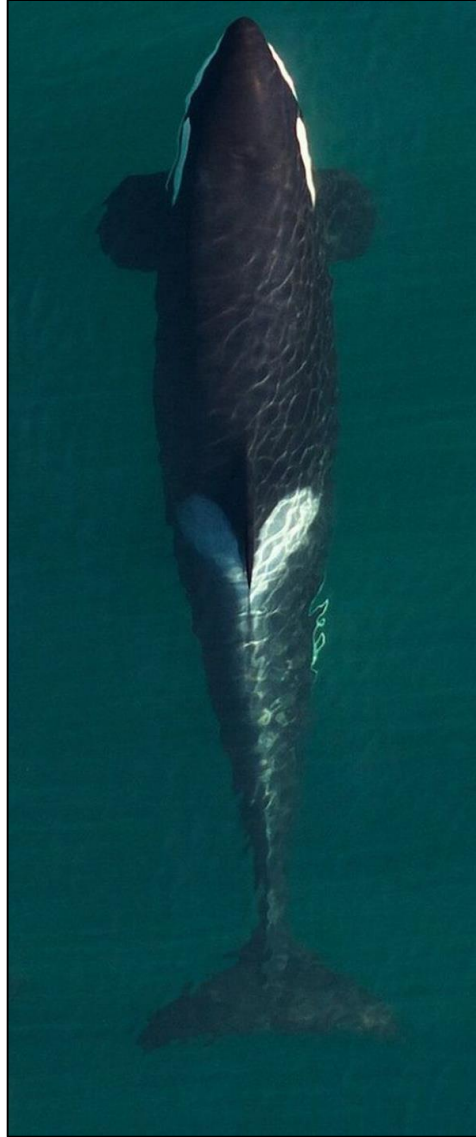
Vervuiling: plastic verovert de oceanen



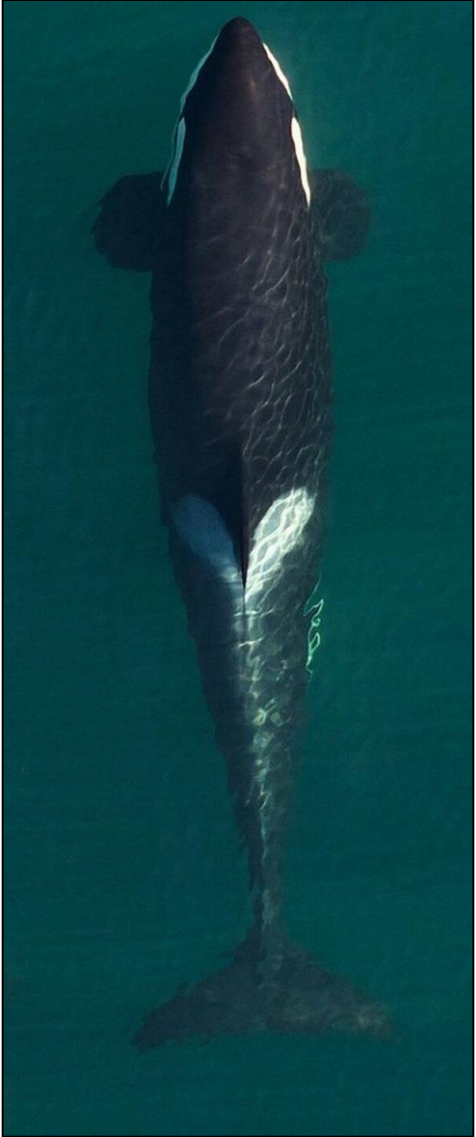
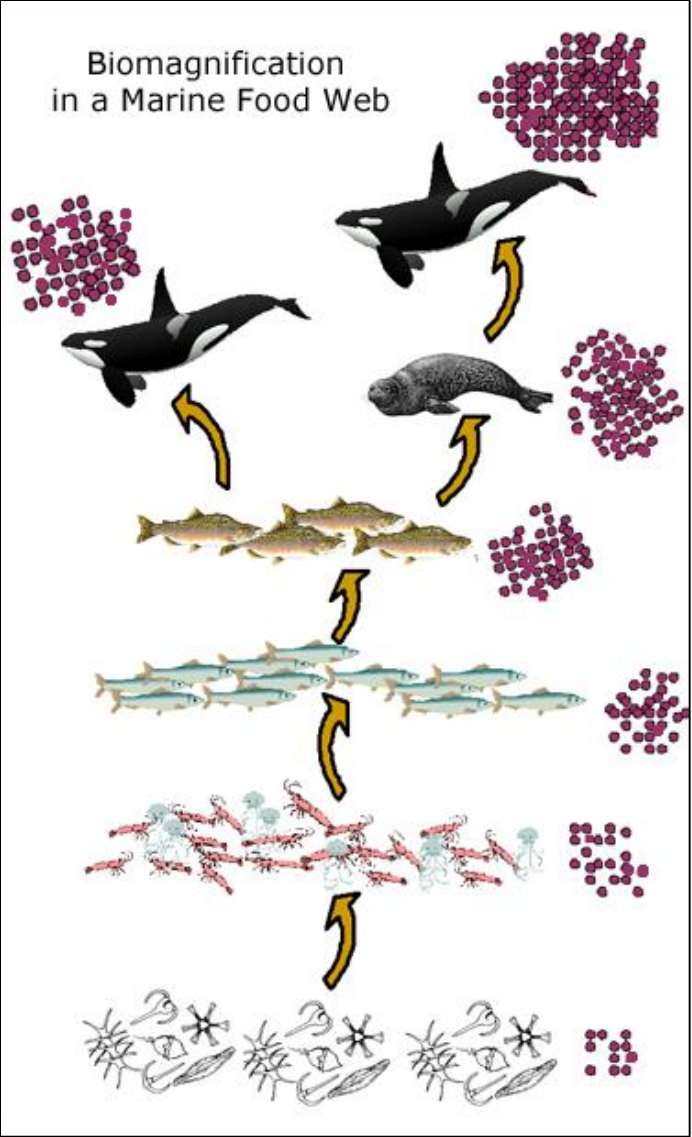
THE OCEAN[®] CLEANUP



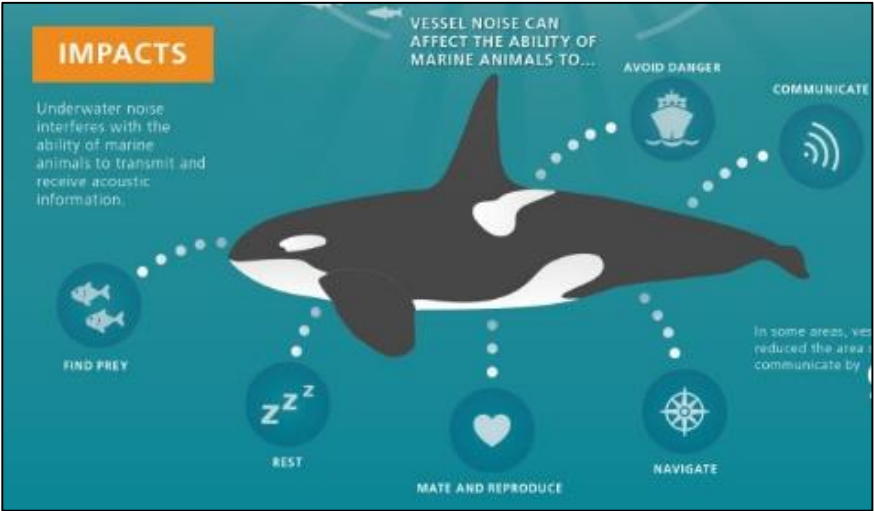
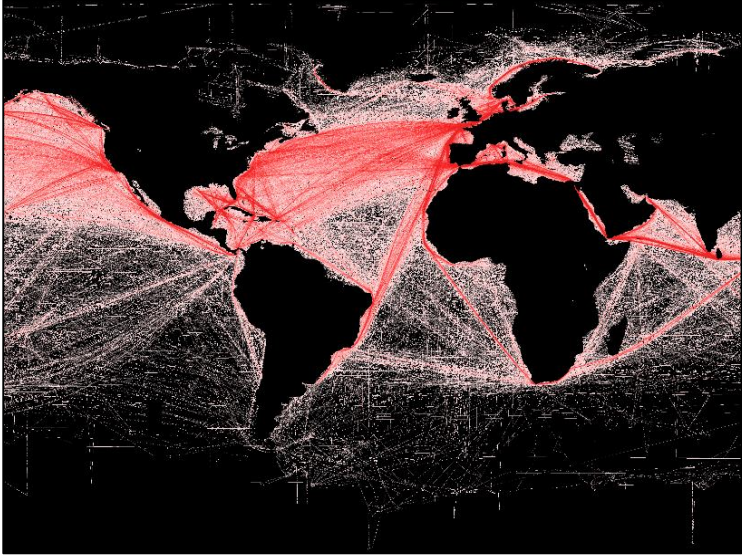




Vervuiling: PCB



Vervuiling: geluid



J35, Sep 2019

J35, July 2020

UPDATE:
J57 is a boy!



SR3 / NOAA / SEA
NMFS Permit # 19091

14 LIFE BELOW WATER



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Marien ruimtelijk plan België



14 LIFE BELOW WATER



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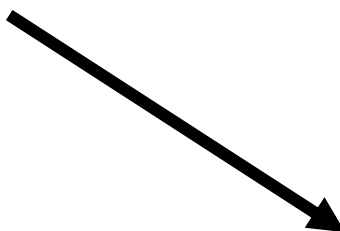
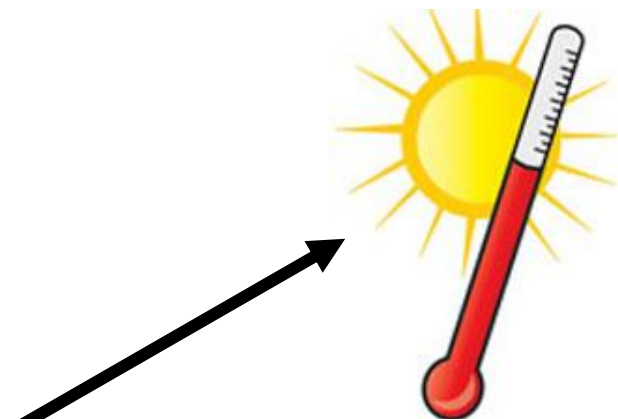
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CO₂ zorgt voor een warme en zure oceaan



pH



Zal koraal verdwijnen voor 2050?



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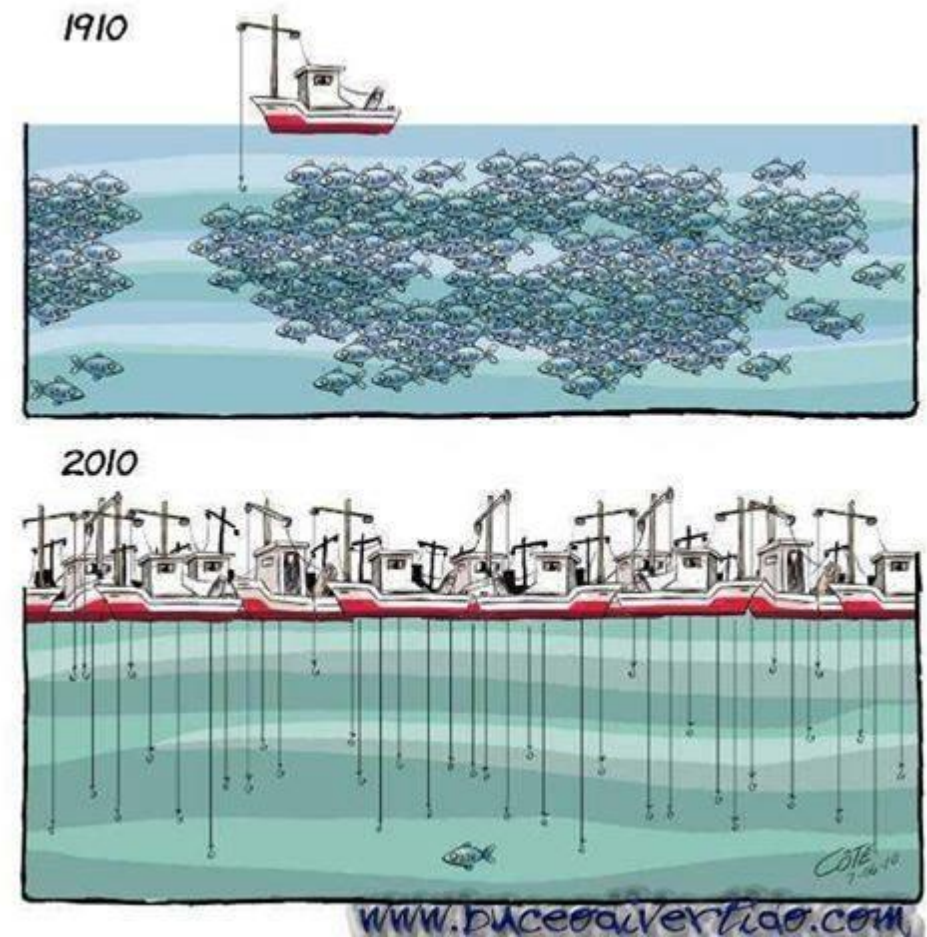
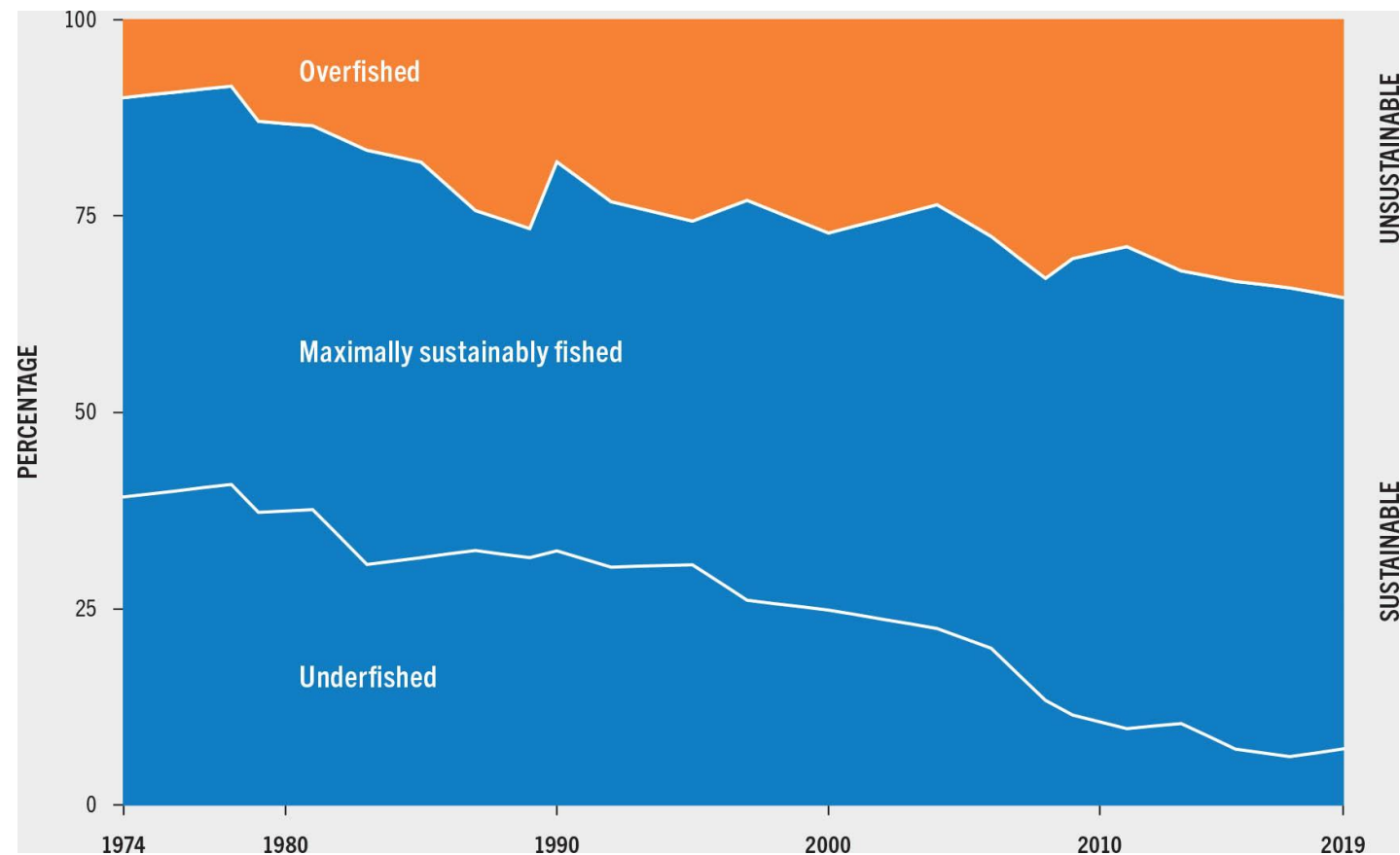
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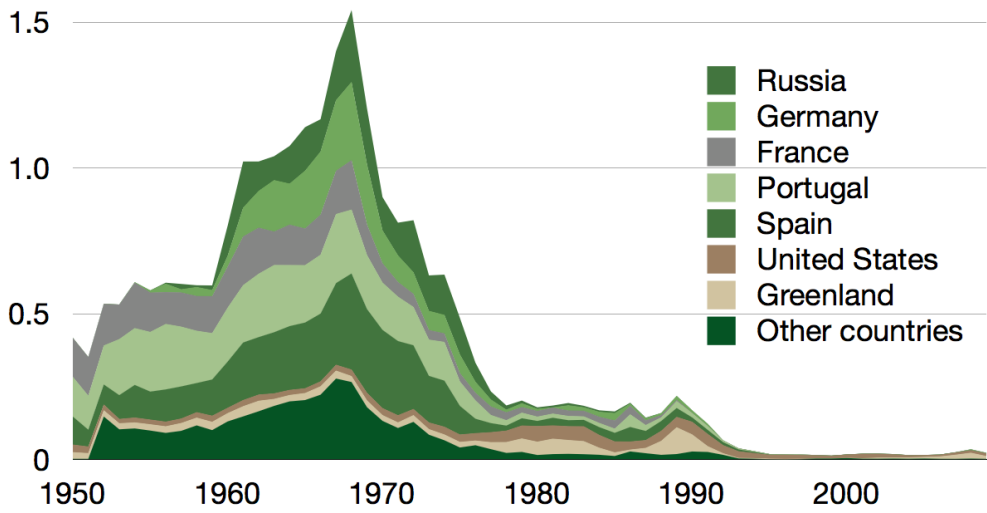
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<https://www.youtube.com/watch?v=NX06dKOYaNU>

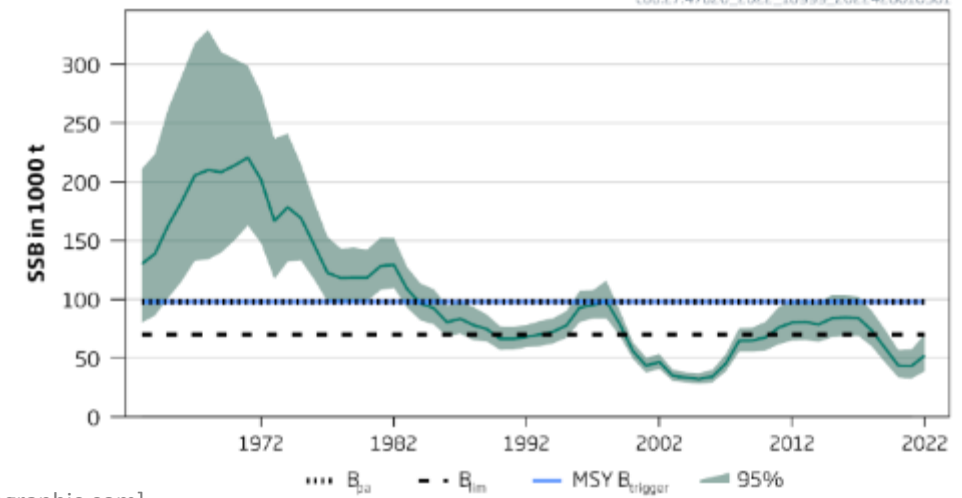
De oceanen zijn overbevist



**Kabeljauw:
schoolvoorbeeld van overbevissing.**



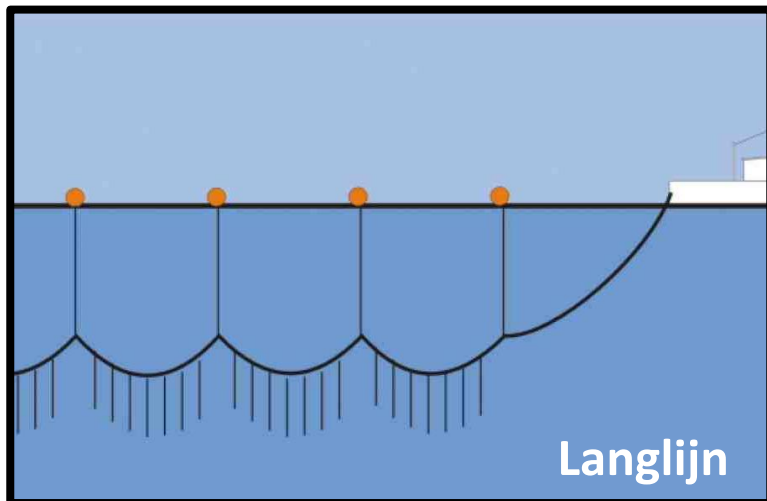
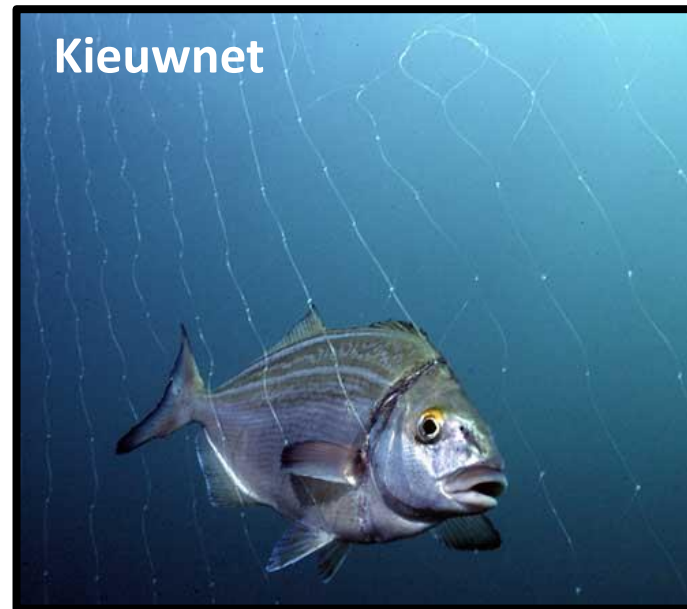
Spawning Stock Biomass



Het gaat goed met de kabeljauw in de Noordzee



Verskillende vistechnieken



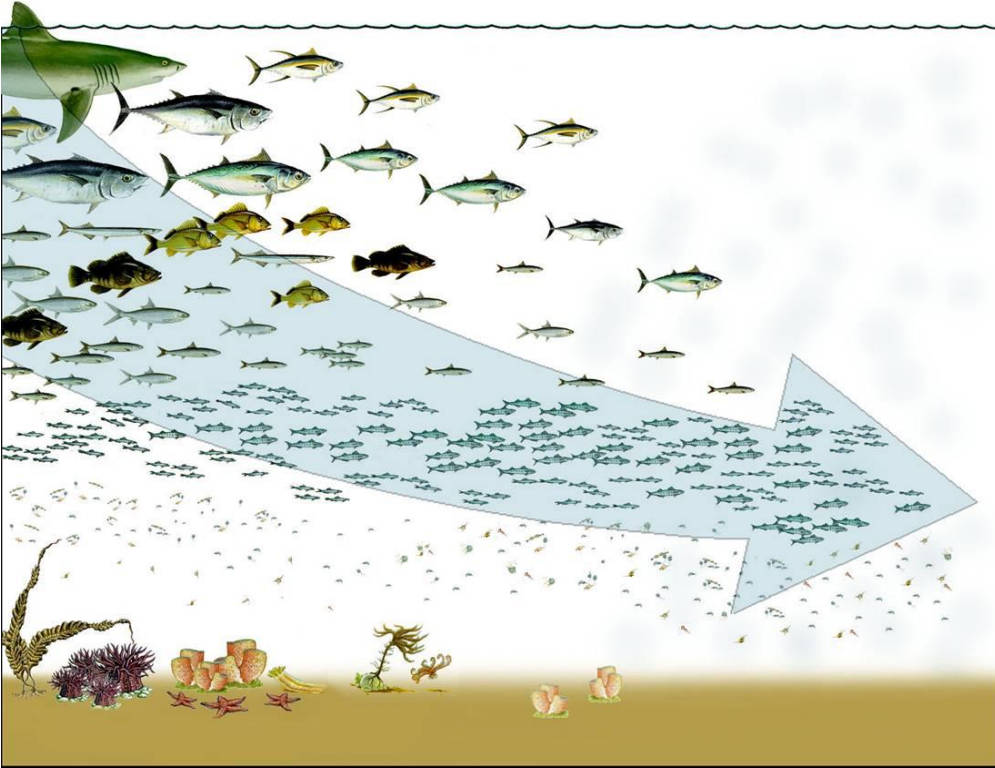
Spookvisserij



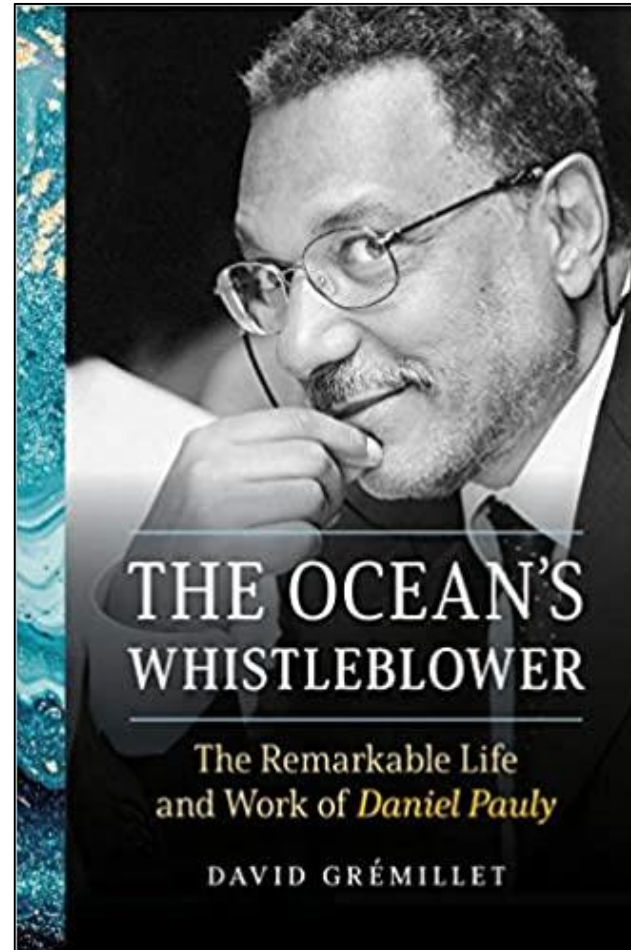
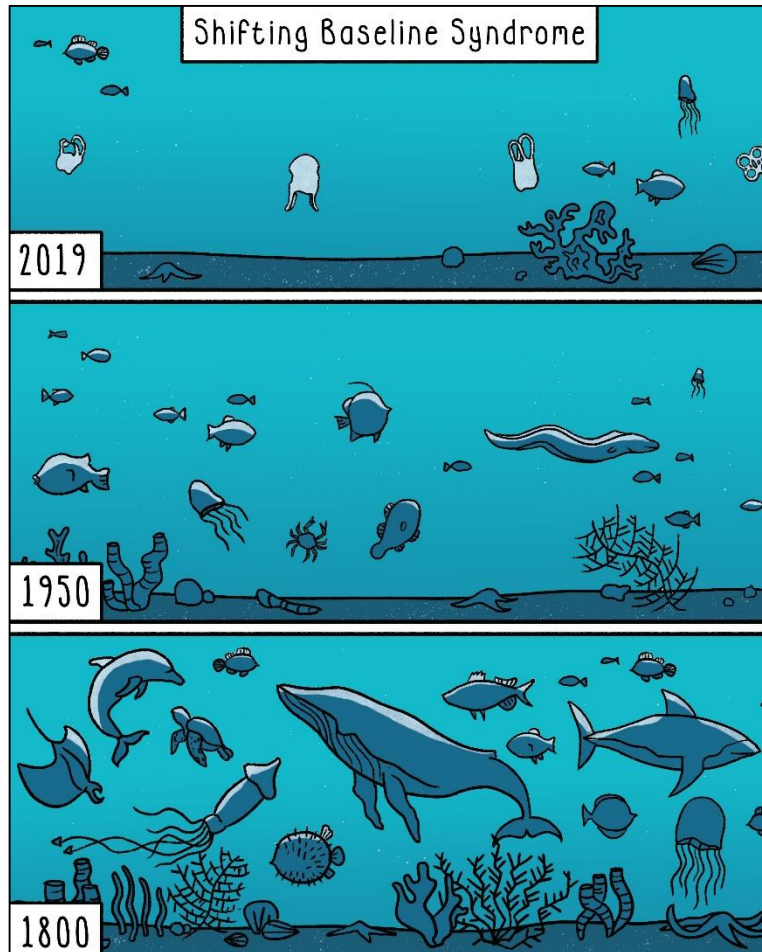
Bijvangst



Overbevissing verandert de samenstelling



Shifting baseline syndrome & generational amnesia



HOW MUCH CAN YOU CATCH FROM A DAY OF FISHING?

Decades of photographs from Key West, Florida, document the declining size and abundance of fish. On a typical day in the 1950s, a sport fisher could expect to snare several groupers longer than he or she was tall. Fifty years later, the biggest "prize" fish was a little over a foot long.

Photographs courtesy of Monroe Public Library

1950s:
Giant groupers dominate the catch. Smaller specimens are not worth keeping.

1960s & 1970s:
The biggest fish are no longer bigger than the fishermen.

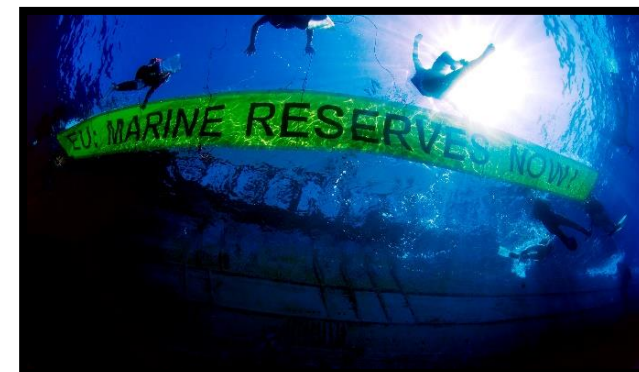
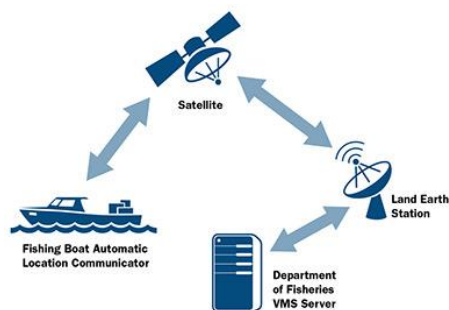
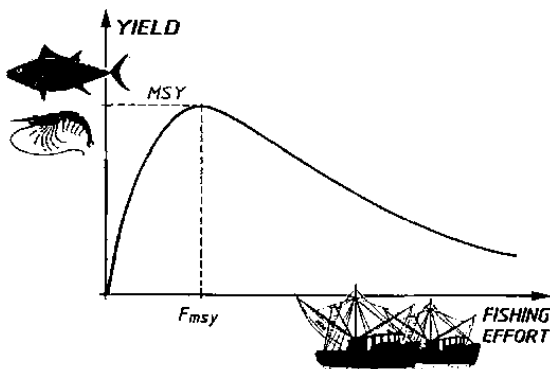
1980s:
Giant grouper are gone. Snappers and smaller fish abound.

2000s:
The average catch is usually no longer than a foot.

Source: McCLENACHAN, L. (2009), Documenting Loss of Large Trophic Fish from the Florida Keys with Historical Photographs, Conservation Biology, 23: 636-643.

© Loren McClenachan

Welke regels kunnen bijdragen aan een duurzame visserij?



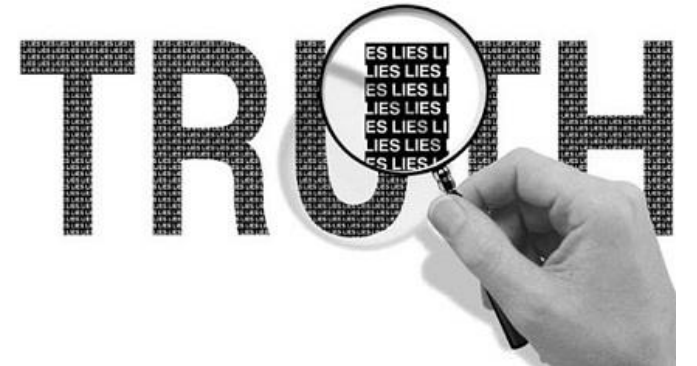
Regels worden gebroken



Illegale



Ongemelde



Ongeregulementeerde



Regels worden gebroken

Indonesia blows up, destroys 27 foreign boats to stop illegal fishing



The Netherlands - a pirate fishers' paradise
Why the international cod mafia is doing business in Dutch ports

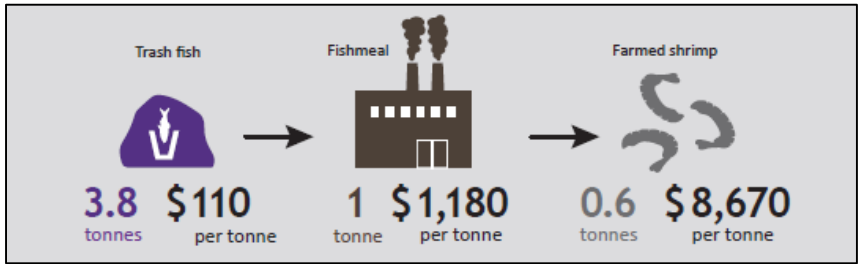
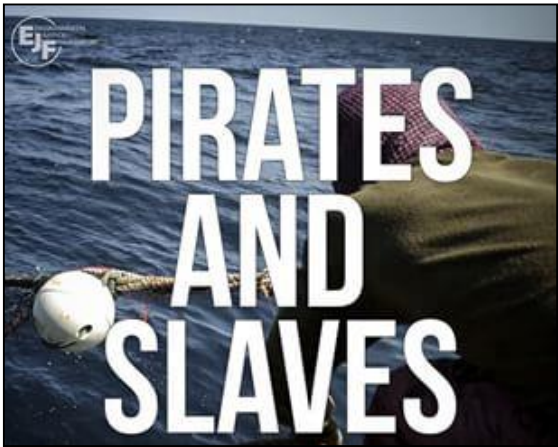
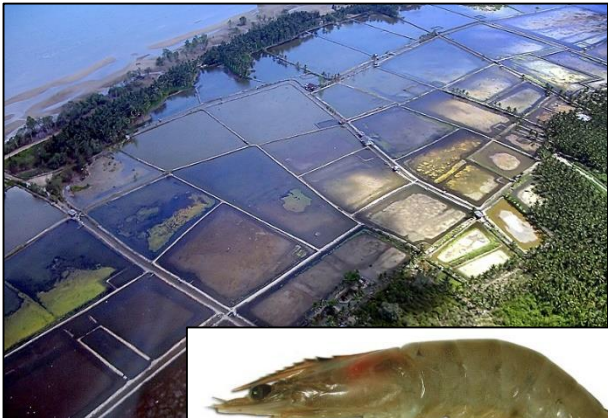
18
Oct

€12.5 million illegal bluefin tuna trade exposes threat to sustainable fisheries in Europe

Source: [WWF](#)

Today, [Spanish authorities announced the arrest](#) of almost 80 people involved in an extensive operation of illegal bluefin tuna trade, fished in Italy and Malta. The operation, led by EUROPOL, involved a large network of fishing companies and distributors, including one of Europe's biggest seafood farming companies, the Spanish Ricardo Fuentes and Sons Group. The illegal catches entered the EU market principally through Malta, where more than twice the amount of illegal tuna was traded than legal, for an annual profit of €12.5 million. Last year, illegal, unreported and unregulated fishing was the 6th most valuable crime globally.

**Illegale visserij schaadt
natuur, economie en mens.**



14 LIFE BELOW WATER



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The most successful marine reserve in the world



CABO PULMO: AN OCEAN TREASURE RESCUED BY A CLOSE-KNIT COMMUNITY

The most successful marine reserve in the world



Cabo San Pulmo



Cabo San Lucas

Mexico cancels mega-resort project near Baja California reef

Marien ruimtelijk plan België

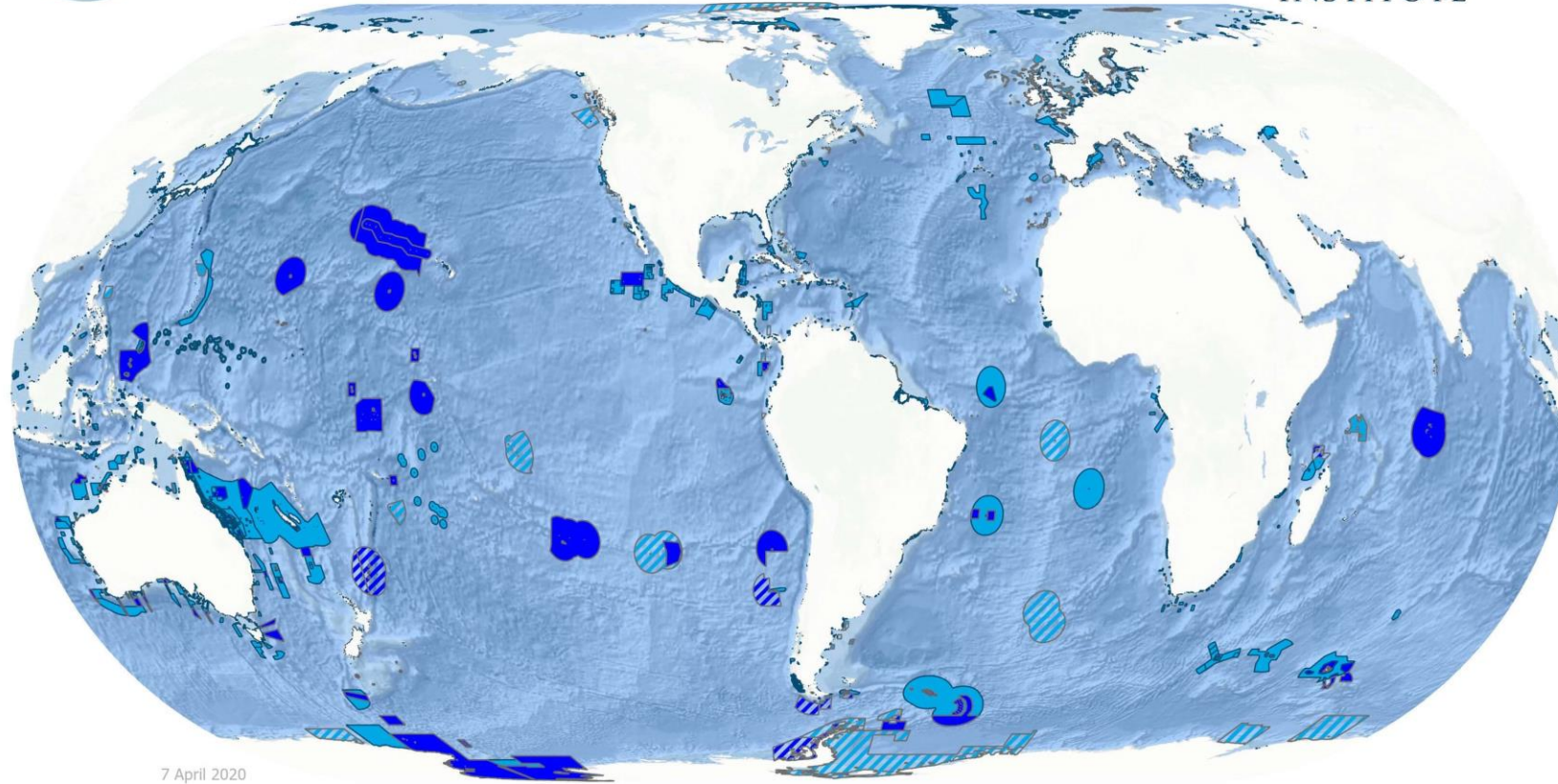


Wist je dat

België met 37% beschermd marien natuurgebied ver boven het Europese gemiddelde van 8,9% zit?

Doel: 10 % 2020 -> 30% 2030

Gegevens 2020: 8,1% officieel, 2,4% werkelijk



7 April 2020



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Schadelijke subsidies voor visserij aan banden gelegd

In juni 2022 bereikte de Wereldhandelsorganisatie (WTO) een gedeeltelijk akkoord over de afschaffing van schadelijke subsidies aan de visserij. Een succes waar ook onze FOD toe heeft bijgedragen.

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Kleine eilandstaten zijn bedreigd in hun voortbestaan

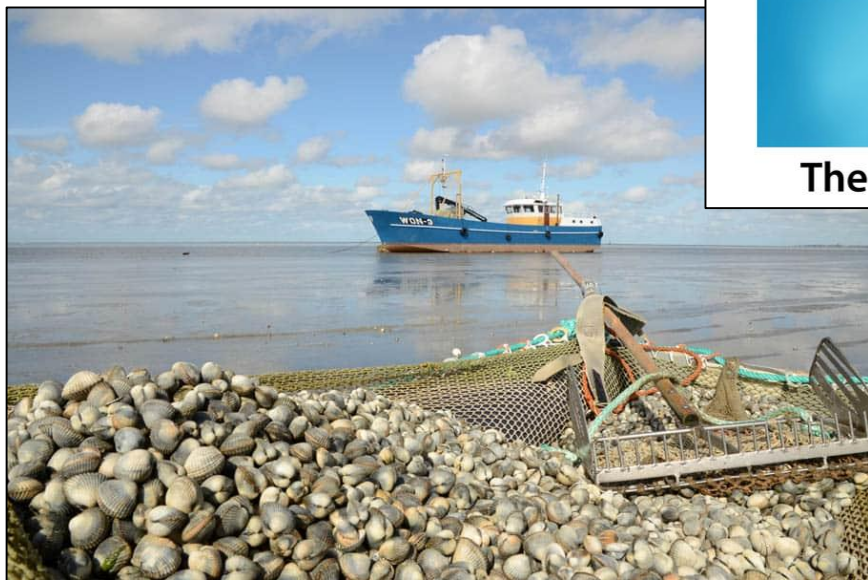
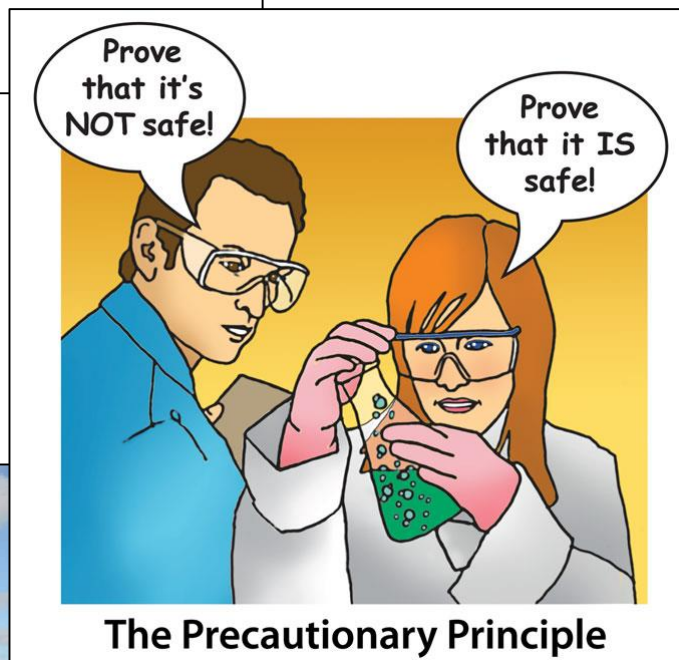


Wat ontbreekt?

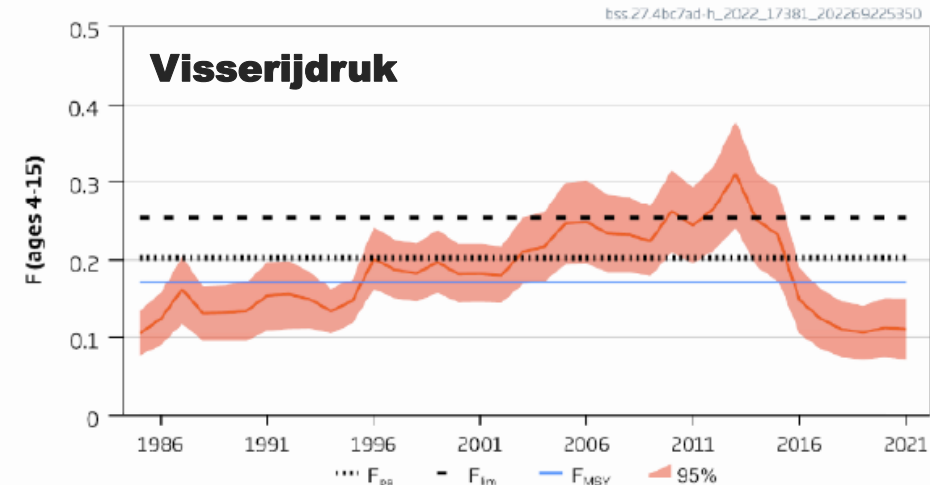
Voorzorgsbeginsel: voorkomen is beter dan genezen

Vis van het Jaar 2021: rog

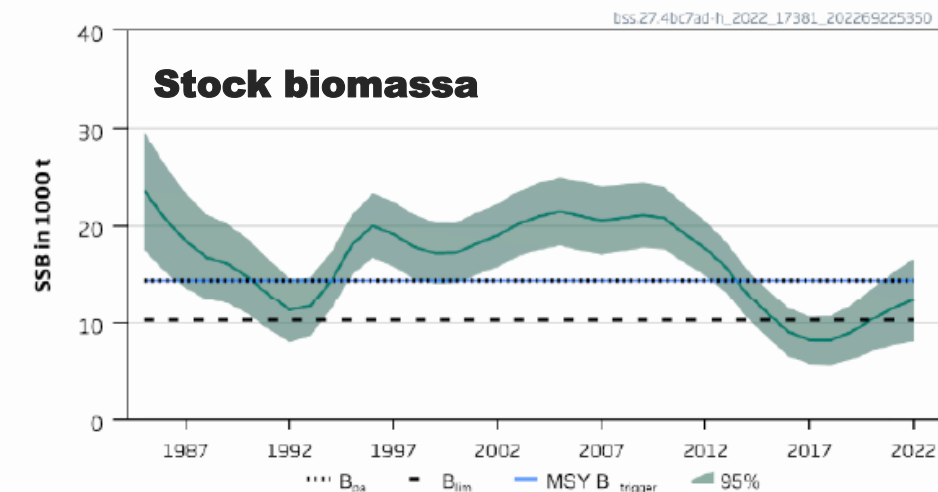
🕒 24 augustus 2021



F



SSB



Milieurechtvaardigheid

How EU Green Deal fosters overfishing in West Africa

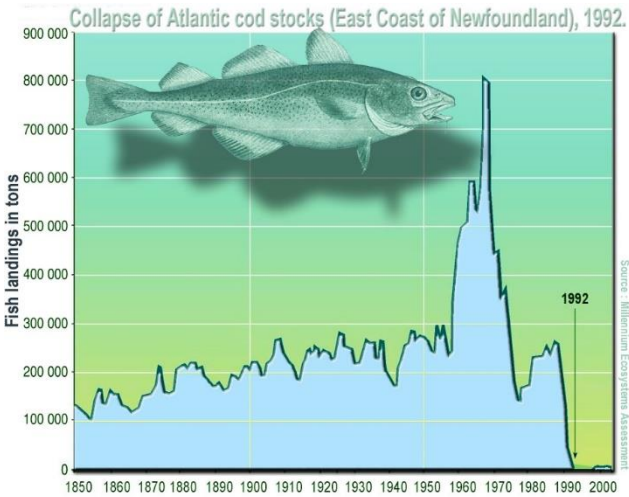


EURONEWS WITNESS

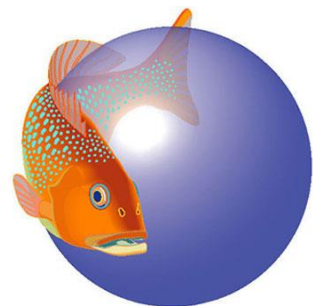
"Nothing, there's nothing": Senegal's plummeting fish stocks drive migrant surge to Europe

COMMENTS

By Valérie Gauriat • Updated: 11/02/2022







FishBase



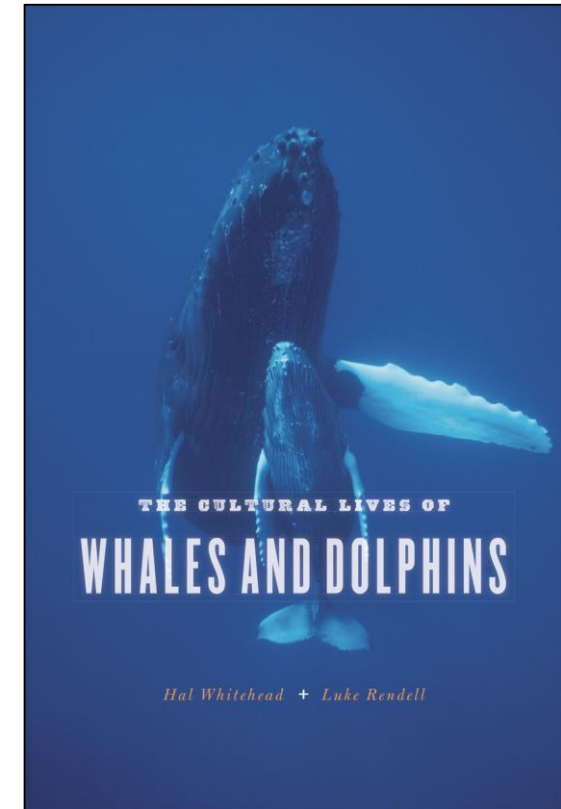
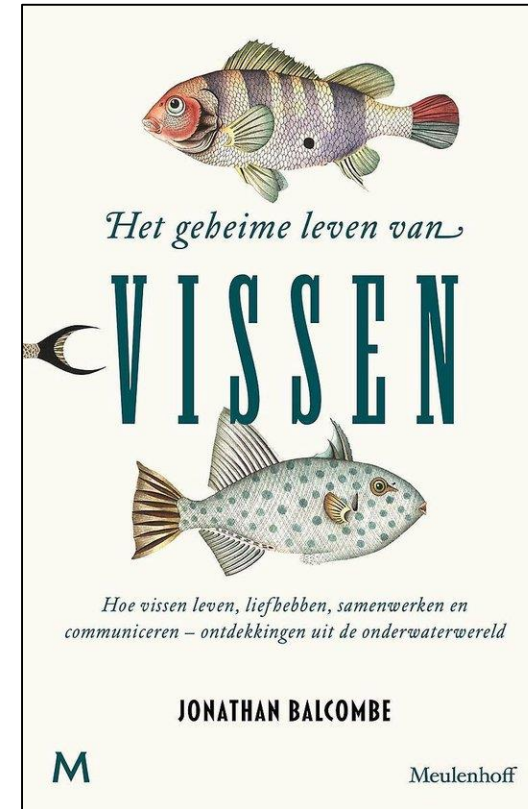
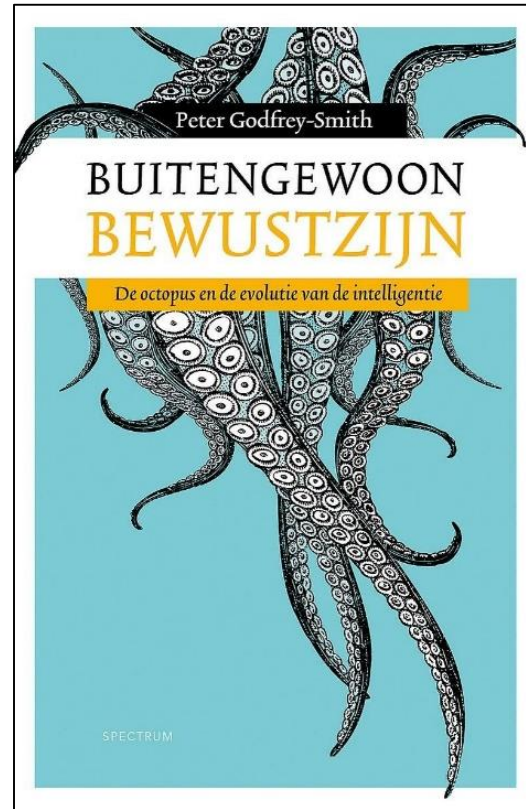
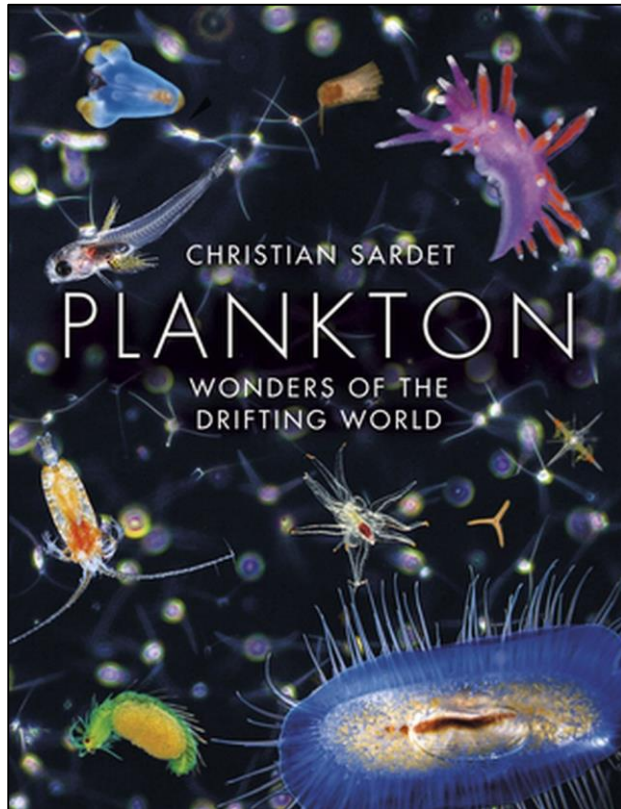
MARINEBIO



THE
PEW
CHARITABLE TRUSTS



Tips



Tips

