



Mediterraneo tesoro in pericolo

Marco Affronte





a different "kind" of sea



a sea made of many seas

The Mediterranean is one of the **priority eco-regions in the world**.

It represents only **0.82% of the ocean surface**, but with nearly **17 000 known marine species** today it is **home to 4-18% of the global marine biodiversity**





G. Pergent

Species endemism of 10 to 48% depending on the groups

The Mediterranean is home to the **Atlantic bluefin tuna's main spawning grounds**, *Thunnus thynnus*, which are found in the Balearic Islands, Tyrrhenian Sea, Levantine Sea and southern Turkey



Around 2-3.000 sea turtles, *Caretta caretta*, and 350 green turtles, *Chelonia mydas*, nest annually in the Mediterranean. The coasts of Turkey, Greece, Cyprus and Libya are the most important nesting areas for the *C. caretta*; whereas the *C. mydas* lays almost exclusively in the eastern Mediterranean mainly in Turkey and Cyprus





The **great white shark**, *Carcharodon carcharias*,
classified as Endangered Species in the
Mediterranean, has unique **breeding areas** in the
Strait of Sicily



The Audouin's seagull,
Larus audouinii, is endemic to the
Mediterranean region and close
to extinction. It breeds in the western
Mediterranean coastal locations,
islands of Spain, Corsica and Sardinia



Eight cetacean species live here regularly. Several others visit occasionally the basin.





The **Pelagos sanctuary** hosts a particularly rich cetaceans fauna, including the largest part of the **fin whale population** (3.500 individuals), *Balaenoptera physalus* in the Mediterranean



The **coralline assemblage** is one of the **most beautiful and productive ecosystems** in the Mediterranean.

It consists of hard corals and a large number of algae, sponges, gorgonians, corals, bryozoans and tunicates species, and it hosts communities of crustaceans, molluscs or fish of all ages who live in this complex structure.



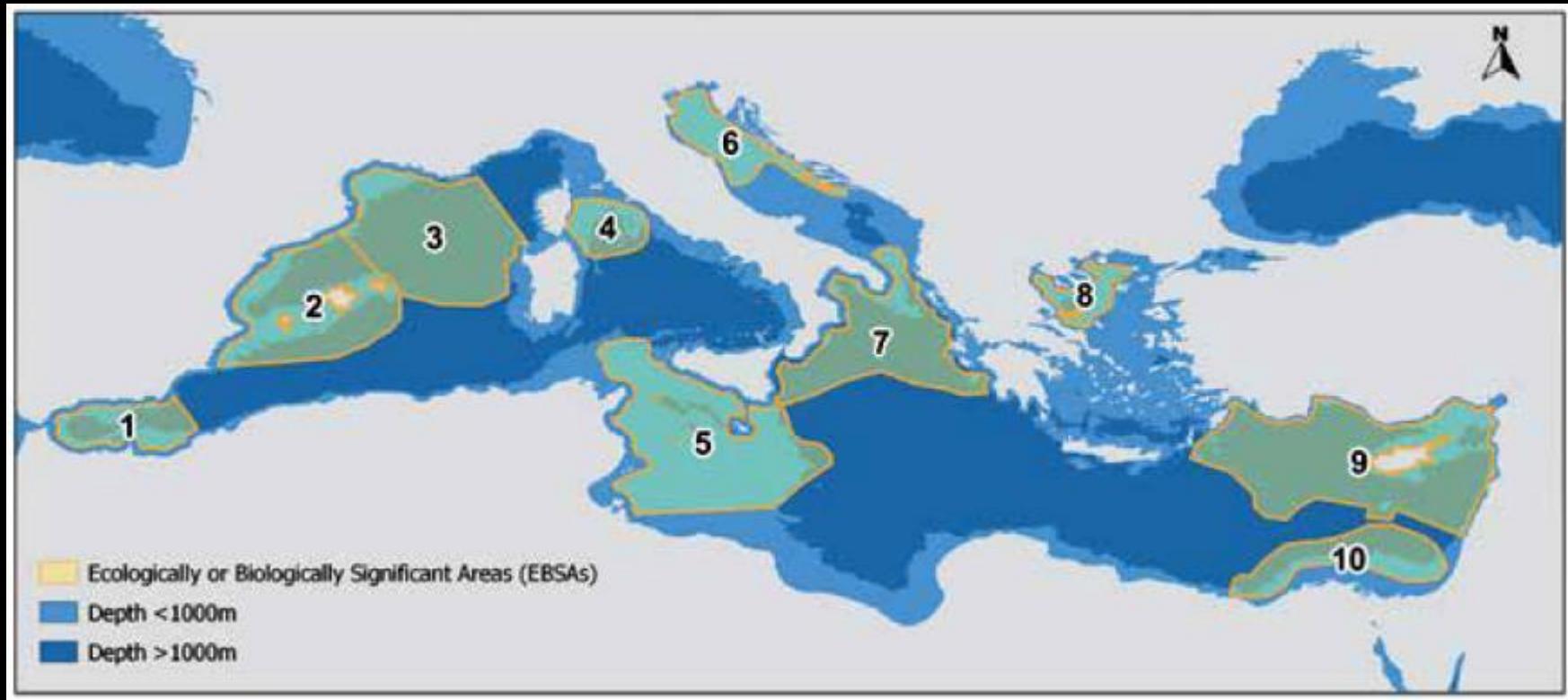
The eastern part of the Mediterranean especially the Aegean Sea is home to most of the small and largely fragmented population of the **Mediterranean monk seal**, *Monachus monachus*.

This mammal species is classified as **critically endangered** and today it is estimated that there are **about 300** left.



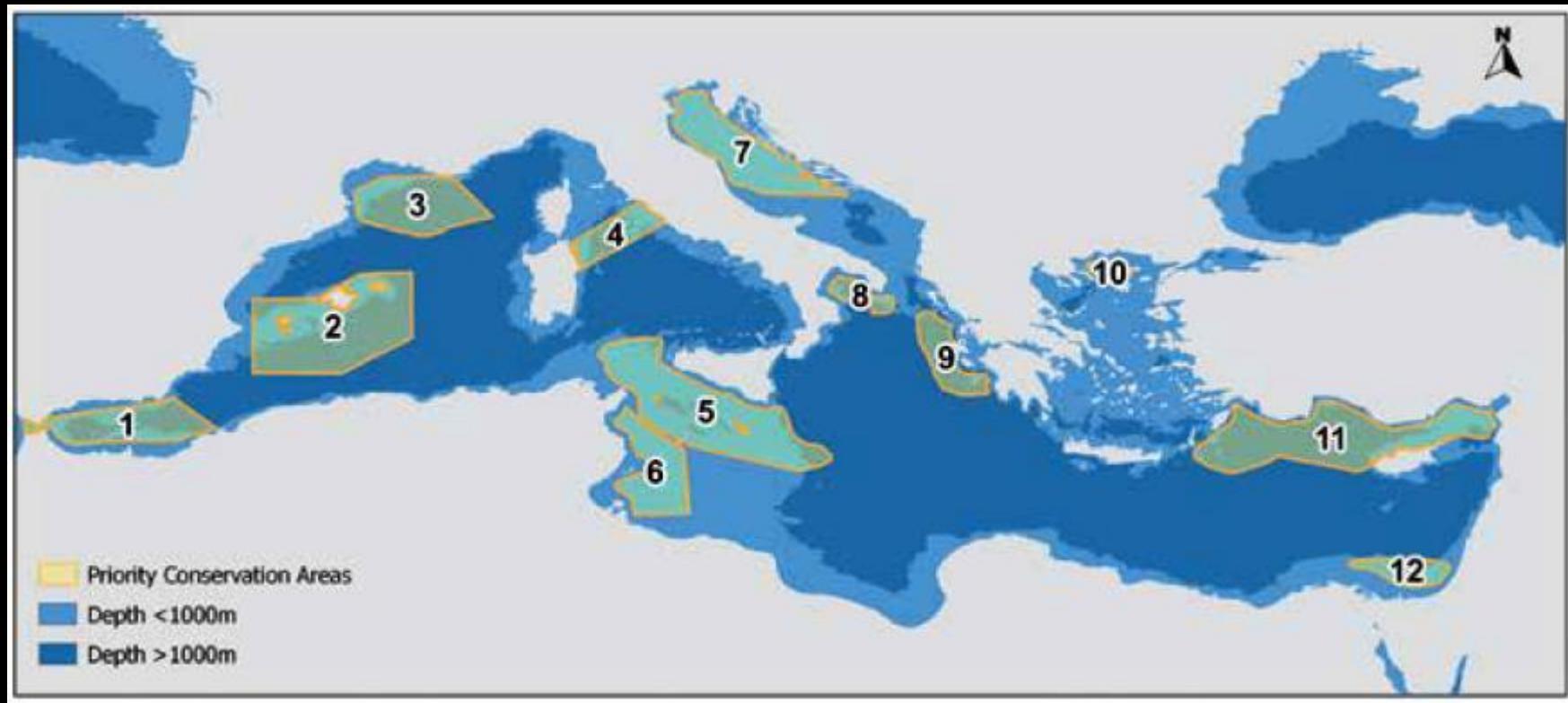
Seagrass meadows are the top biodiversity hotspot of the Mediterranean; many invertebrates and vertebrates live, feed, breed and shelter in their leaves and rhizomes. These are also **key species for providing oxygen, nutrients and protection to the coast**. One of the seagrass species, *Posidonia oceanica*, is endemic to the Mediterranean.





Ecologically or Biologically Significant Areas identified by the RAC/SPA:

1. Alboran Sea
2. Balearic Islands area
3. Gulf of lion area
4. Tyrrhenian Sea
5. Tunisian Plateau
6. Adriatic Sea
7. Ionian Sea
8. Aegean Sea
9. levantine Sea
10. Nile Delta region



The **12 priority conservation areas** identified by the RAC/SPA :

1. Alboran Sea;
2. Balearic Islands area;
3. Gulf of lion area;
4. Tyrrhenian Sea;
5. Northern Strait of Sicily (including Adventure bank and surrounding banks);
6. Southern Strait of Sicily;
7. Northern and central Adriatic Sea;
8. Cape Santa Maria di leuca;
9. North-east region of Ionian Sea;
10. Thracian Sea;
11. North-east levantine Sea and Rhodes Gyre;
12. Nile Delta region

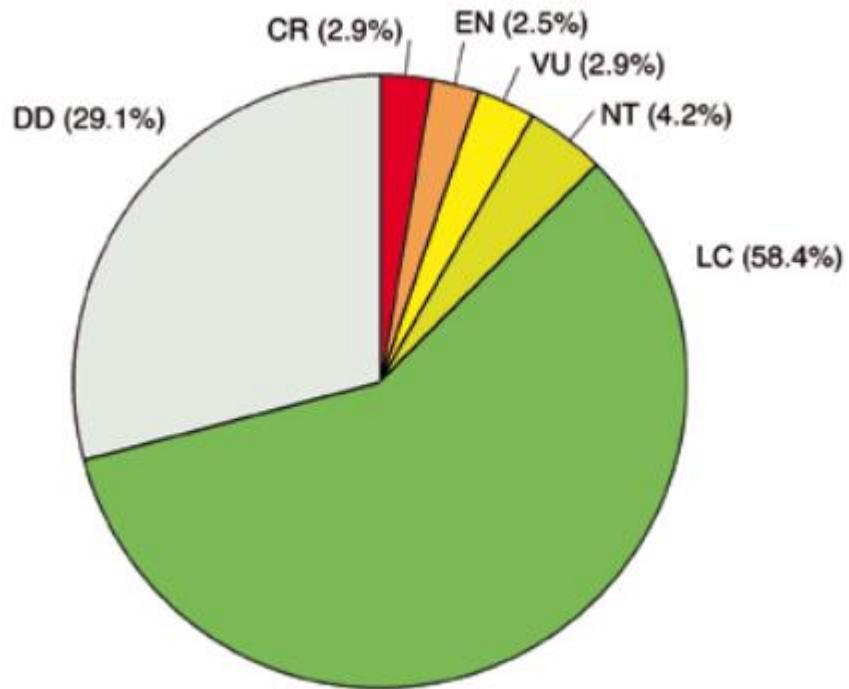


Un tesoro in pericolo

Specie a rischio

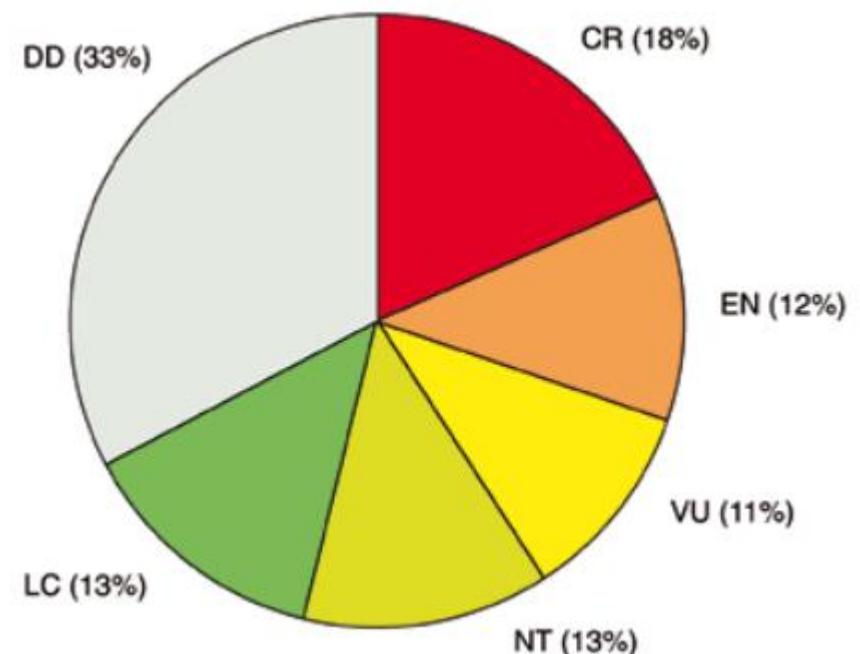


	IUCN Red List Categories	No of native species	No of endemic species
Threatened categories	Critically Endangered (CR)	15	1
	Endangered (EN)	13	2
	Vulnerable (VU)	15	1
	Near Threatened (NT)	22	2
	Least Concern (LC)	303	39
	Data Deficient (DD)	151	29
	Total number of species assessed	519	74
	Total number (and %) of threatened species	43 (8.3%)	4 (5.4%)



IUCN
The World Conservation Union

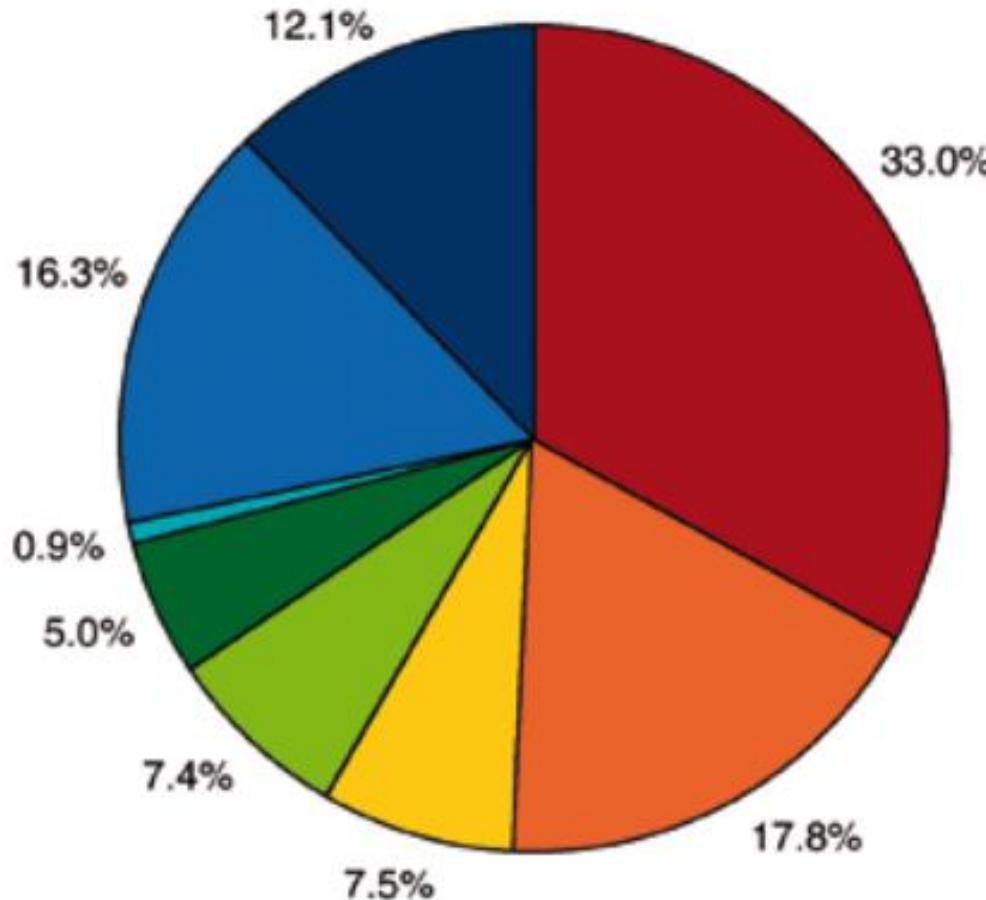
Totali



Squali e razze

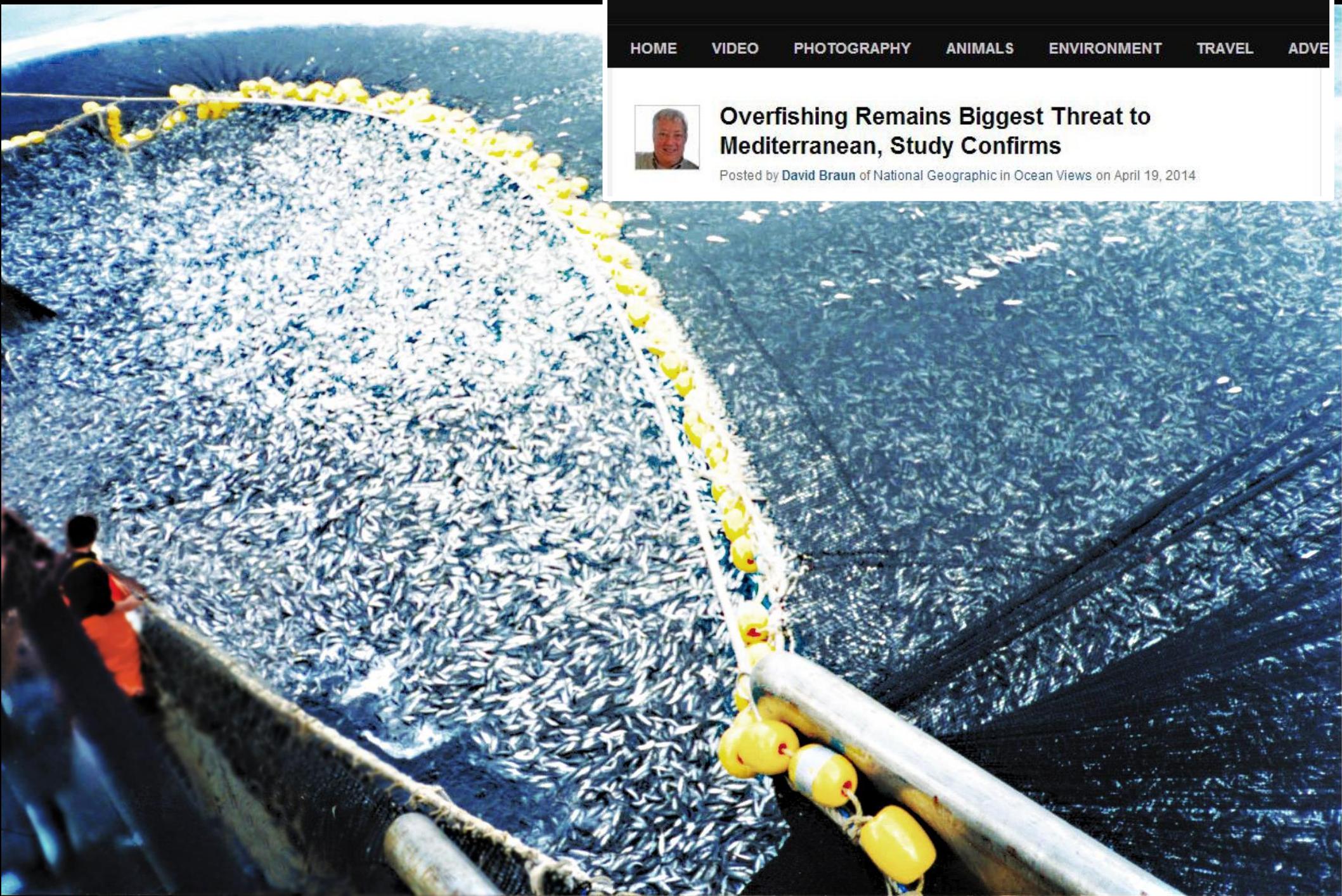


le minacce



- | | |
|--------------------|----------------------------|
| ■ Targeted Fishing | ■ Human Disturbance |
| ■ By-catch | ■ Invasive / Alien Species |
| ■ Pollution | ■ None |
| ■ Habitat Loss | ■ Unknown |

Pesca - overfishing



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HOME VIDEO PHOTOGRAPHY ANIMALS ENVIRONMENT TRAVEL ADVE



Overfishing Remains Biggest Threat to Mediterranean, Study Confirms

Posted by David Braun of National Geographic in Ocean Views on April 19, 2014

overfishing

HOPE!

Healthy Oceans
Productive Ecosystems

A European Conference for
the marine environment

3-4 March 2014, Brussels

30%

of Europe's fish stocks are fished outside safe biological levels

Only 10%

of marine habitats and 2%
of species are found to be in good condition

88%

of marine species in the Mediterranean and Black Seas are overfished

Almost 300 new non-indigenous species have been reported since 2000



COMMISSIONE
EUROPEA

Bruxelles, 2.6.2015

COM(2015) 232 final

**COMUNICAZIONE DELLA COMMISSIONE AL PARLAMENTO EUROPEO E AL
CONSIGLIO**

**Consultazione sulle possibilità di pesca per il 2016 nell'ambito della politica comune
della pesca**

"Il fenomeno della pesca eccessiva interessa in particolar modo il Mediterraneo e il Mar Nero."

"La Commissione nutre grande preoccupazione per la situazione nel Mar Mediterraneo."

"Nel Mediterraneo e nel Mar Nero gli stock ittici sono ampiamente sovrasfruttati e/o versano in cattivo stato."

"In base ai dati del 2013, il 96% degli stock ittici dell'UE è sfruttato a livelli superiori all'MSY e solo il 4% degli stock ittici dell'UE è sfruttato a livelli vicini all'MSY."

"Il 91% degli stock condivisi con paesi terzi è sfruttato a livelli di gran lunga superiori all'MSY e solo il 9% è sfruttato a livelli vicini all'MSY."



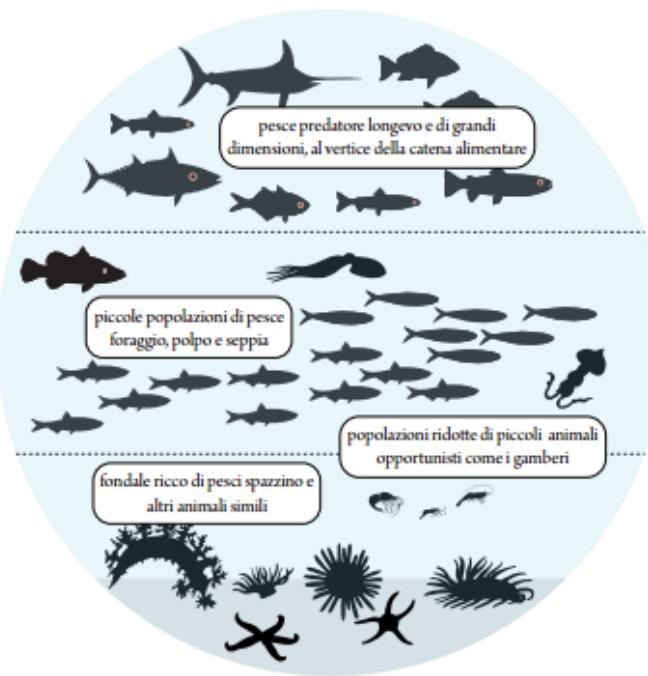
Bruxelles, 2.6.2015
COM(2015) 239 final

COMUNICAZIONE DELLA COMMISSIONE AL PARLAMENTO EUROPEO E AL CONSIGLIO

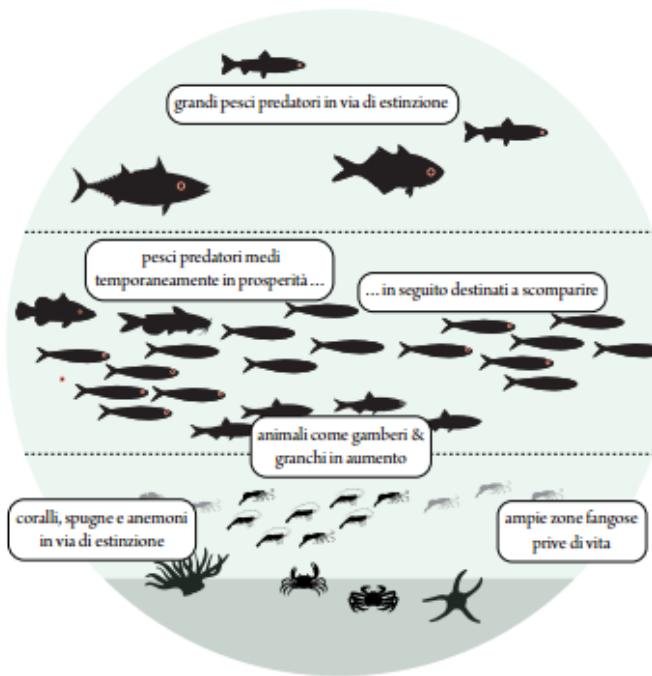
Consultazione sulle possibilità di pesca per il 2016 nell'ambito della politica comune della pesca



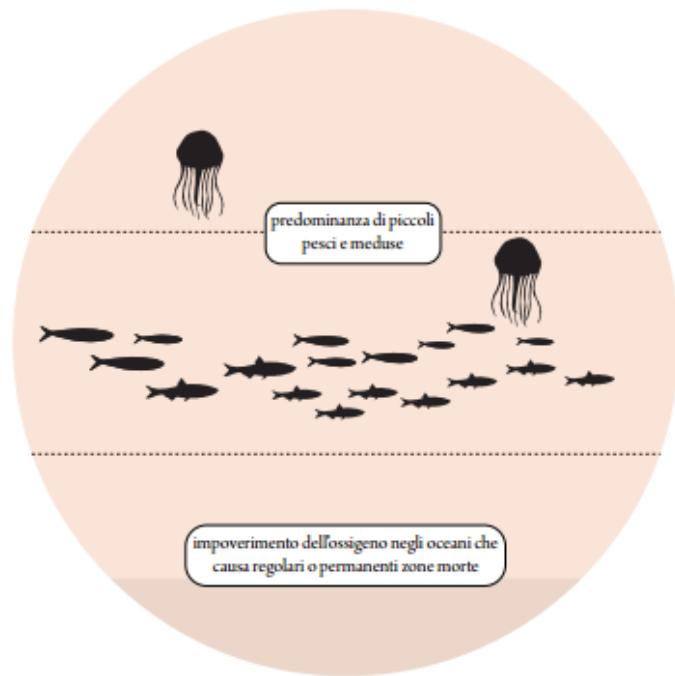
gli ecosistemi cambiano



Passato



Presente



Futuro

**Nel mondo, il 40% dei pesci pescati, è
pescato "per sbaglio"**

**In alcune reti la percentuale di scarto
arriva all'85%**



Pollution

Aquaculture
Chemical
Plastics
Solid waste

Cruise Ship Pollution
Oil Pollution
Shipping Emissions



Table 1. 'Top 12' marine litter items in Mediterranean ICC campaigns (2002-2006)

Item	Counts	Percent
Cigarettes/cigarette filters	222,563	27
Cigar tips	86,146	10
Plastic bottles (2 L or less)	81,238	9.8
Plastic bags	70,912	8.5
Aluminum beverage cans	63,282	7.6
Caps/lids	60,920	7.3
Beverages bottles (glass)	48,085	5.8
Cups/plates/forks/knives/spoons	32,037	3.8
Tobacco packaging/wrappers	23,648	2.8
Food wrappers/containers	21,029	2.5
Straws/stirrers	17,184	2.1
Pull tabs	15,481	1.9

- particelle di plastica più piccole di 5 mm
- il Mediterraneo è una delle aree più impattate al mondo da questa forma di contaminazione
- vengono assunte dagli organismi marini, spesso per ingestione
- possono essere facilmente confuse con il plancton e in più di 180 specie animali (tra cui uccelli, pesci, tartarughe e mammiferi) è stato documentato questo tipo di assunzione.

CORRIERE DELLA SERA

Nel Mediterraneo si fa il bagno nella microplastica

Nelle acque italiane da 13 mila a 350 mila microframmenti delle dimensioni di un terzo di millimetro per chilometro quadrato sullo strato superficiale del mare

LA STAMPA

Mediterraneo, allarmante presenza di microplastiche

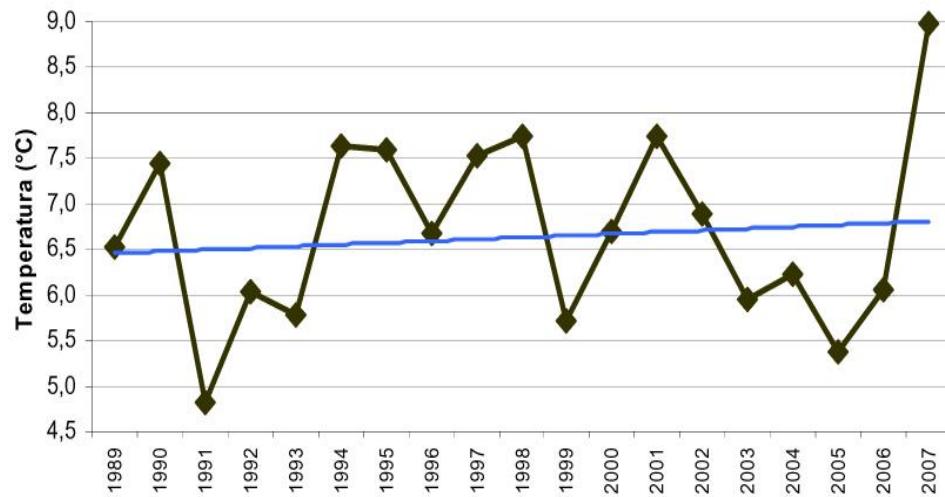
Gli inquinanti minacciano le Balenottere nell'area protetta del Santuario dei cetacei

- trattengono molecole di composti inquinanti idrofobici (Pcb, Ddt e suoi metaboliti)
- rilasciano ftalati, bisfenolo A, Pbde, alchilfenoli (distruttori endocrini che alterano la funzionalità del sistema endocrino e causano effetti avversi sulla salute dell'organismo, oppure della sua progenie)
- possibile ruolo come vettori di agenti patogeni

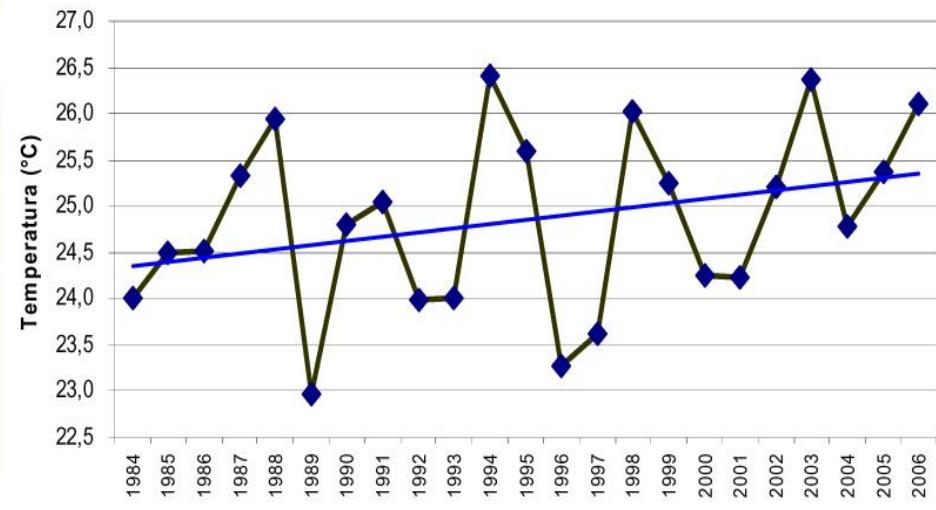
- Disturbo
- Urbanizzazione
- Inquinamento acustico
- Traffico navale



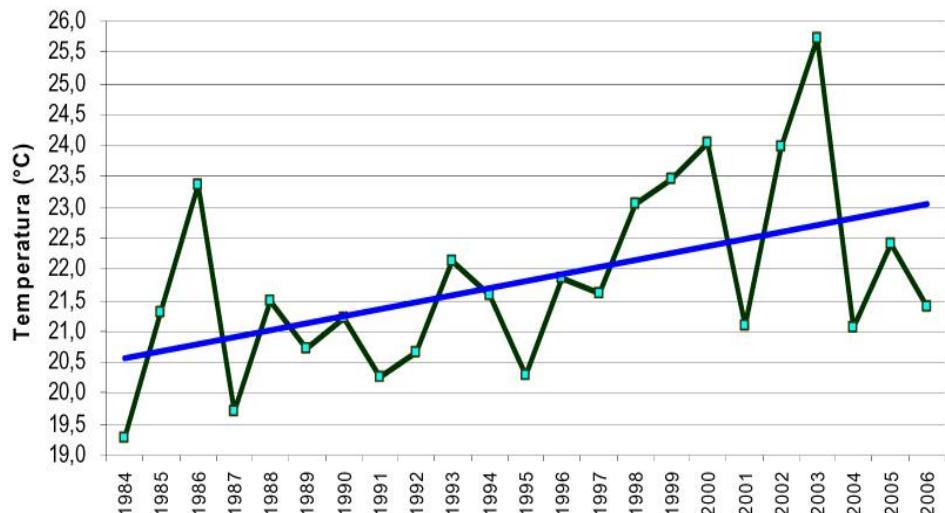
Febbraio



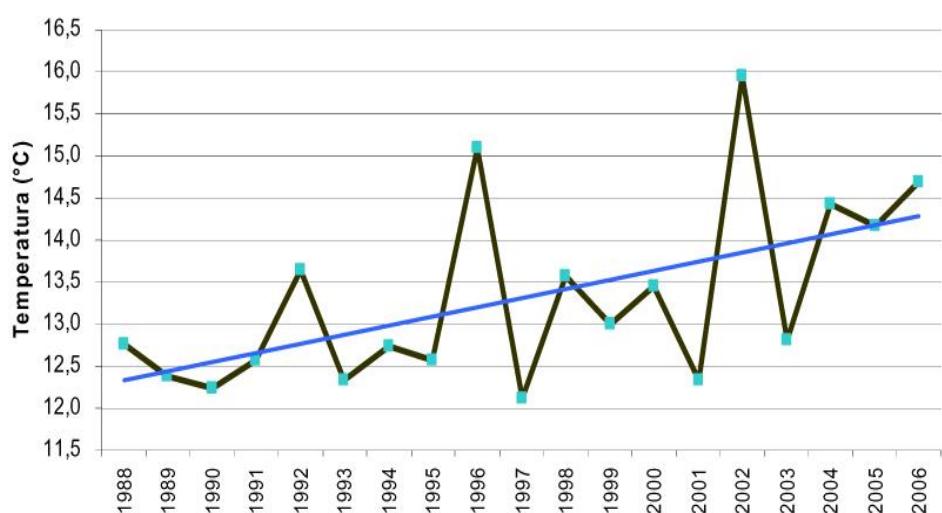
Luglio



Giugno



Novembre



riscaldamento

habitat changes - climate changes – alien species

"southernization"



habitat changes - climate changes – alien species

"tropicalization"



Almost **300**
new non-indigenous
species have been
reported since 2000

habitat changes

Il "caso" del delfino comune





Intentional killings and systematic dolphin extermination campaigns conducted for over a century as an attempt to **reduce conflict with fisheries** caused significant dolphin mortality until the 1960s. Unsustainable killings are thought to have triggered the decline of short-beaked common dolphins. In addition, **habitat degradation** and **changes in prey availability** in subsequent years probably accelerated the decline of this species.

(Bearzi et al. 2004)





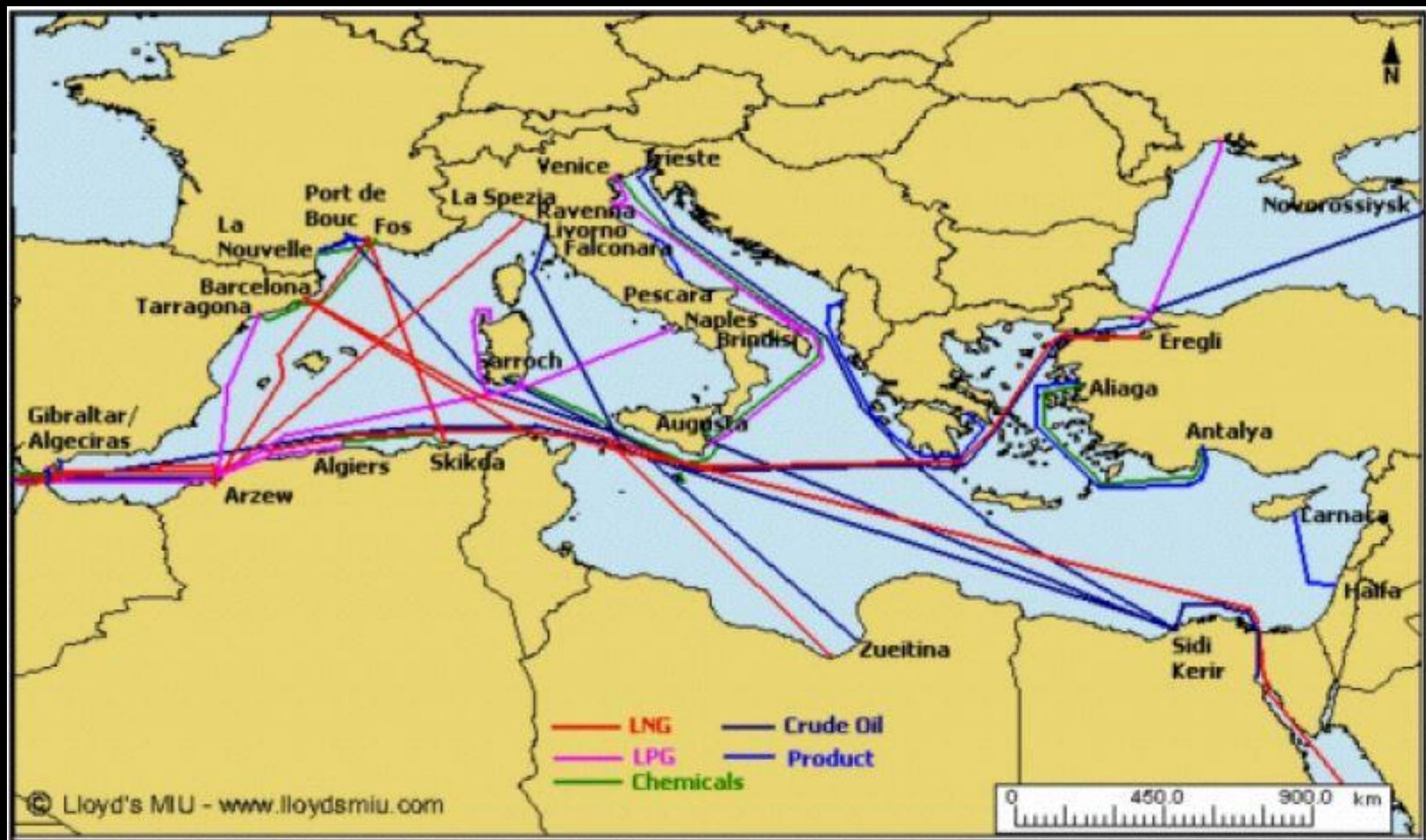
endangered

oil pollution

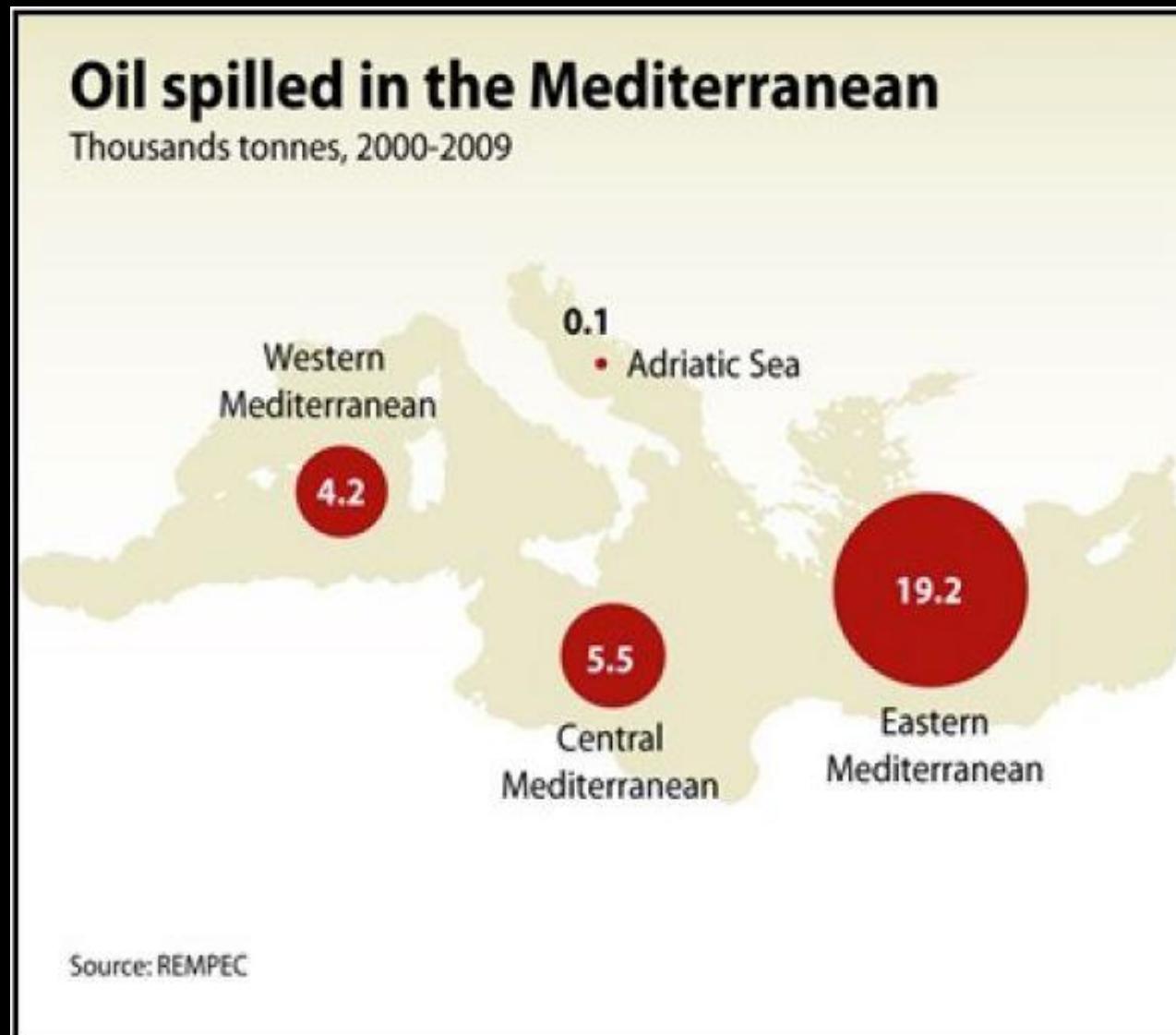


oil pollution

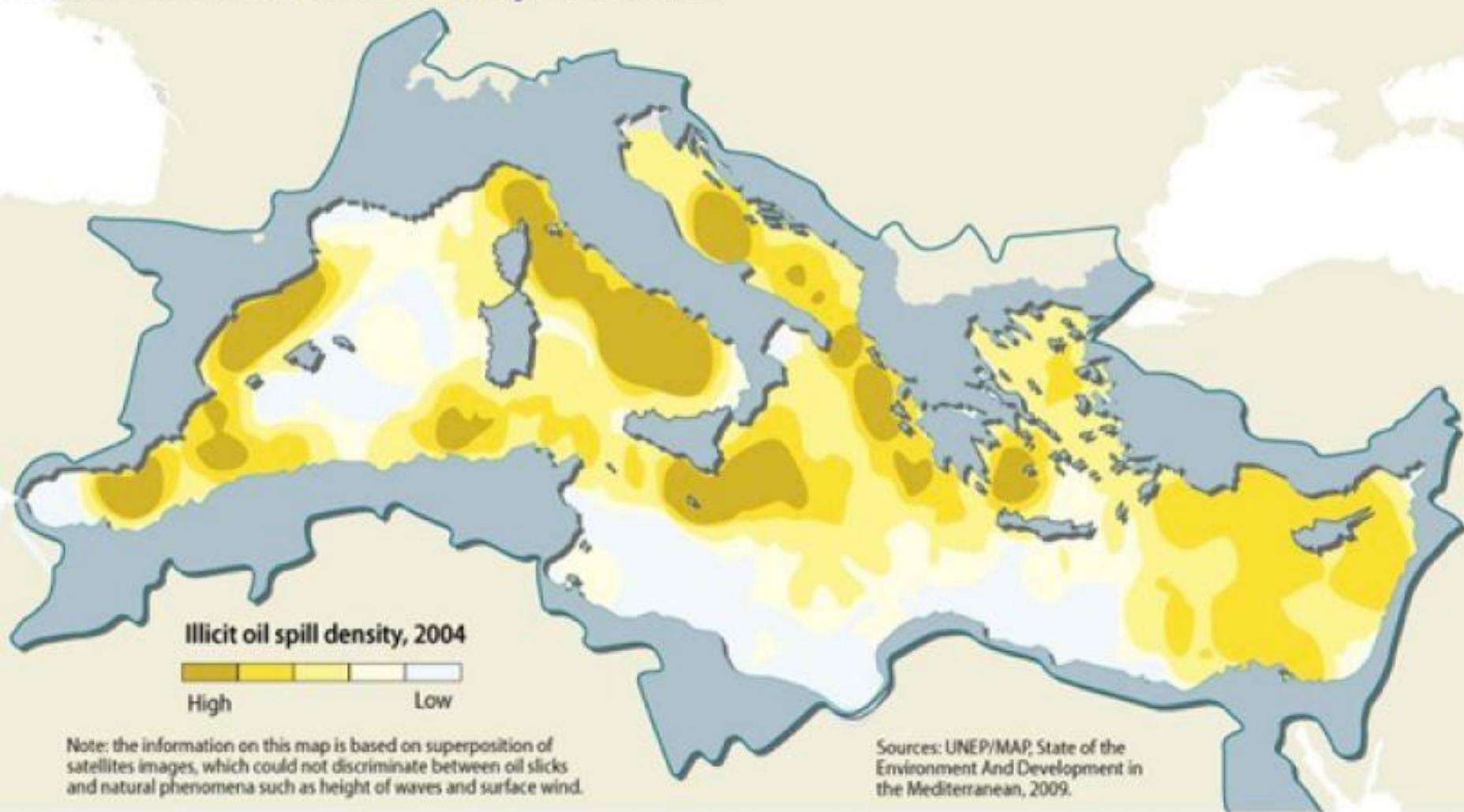
the oil routes



Sometimes it happens...

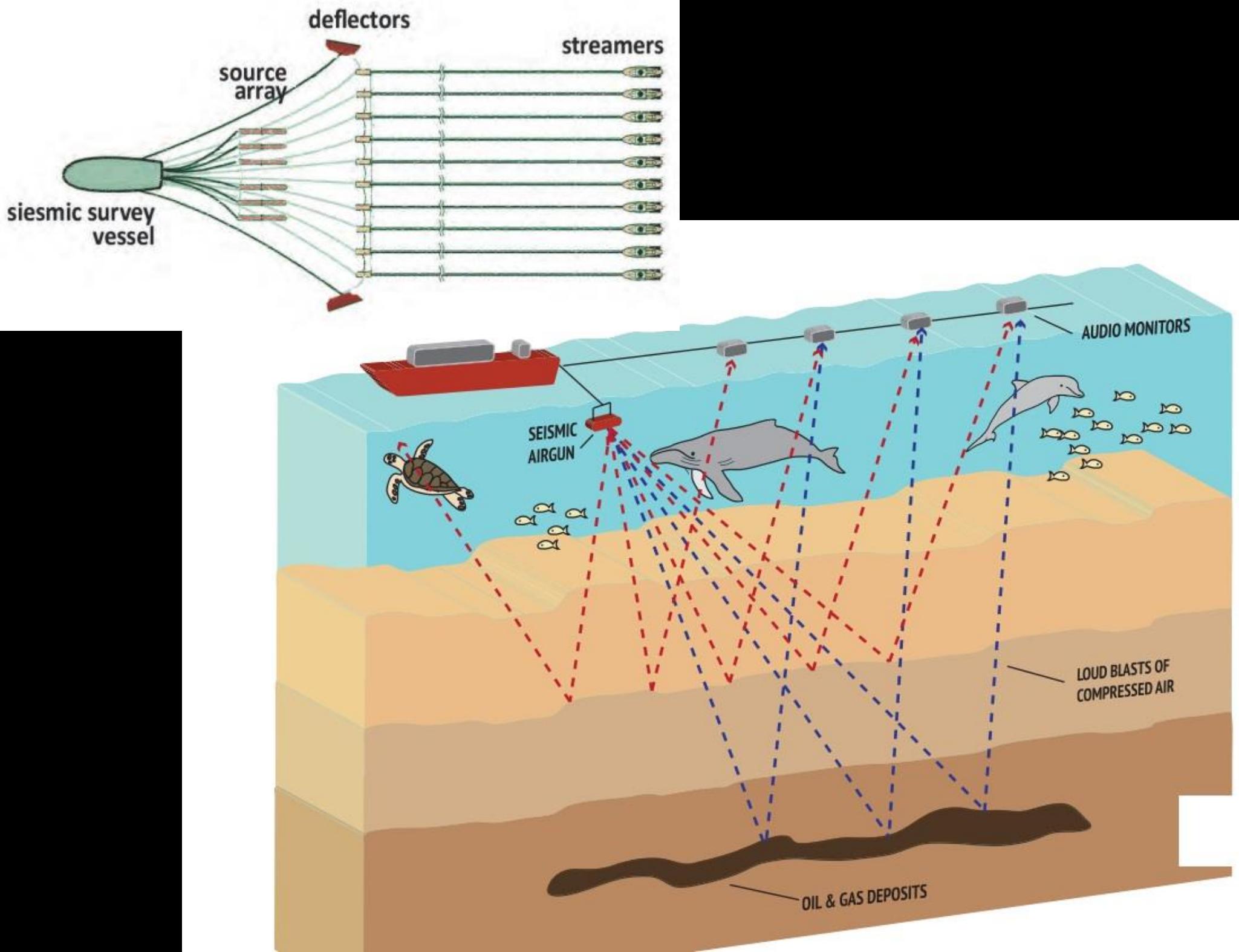


Possible oil slicks detected by satellites



I seismic surveys e le bombe sonore





LA MAPPA



Croatia launched a tender for licenses to explore and drill for potential oil and gas reserves in the Adriatic, hoping to attract investments badly needed for its ailing economy.

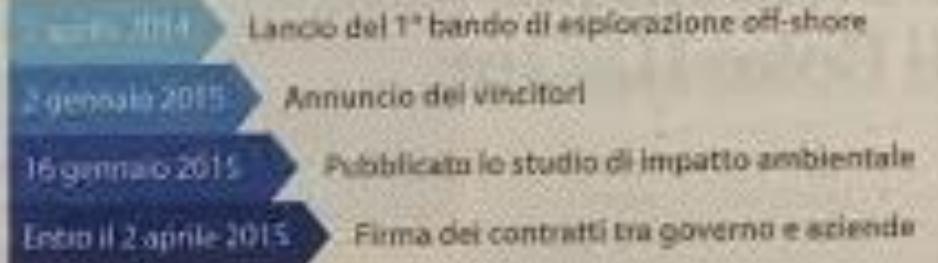
It's happening now

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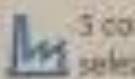
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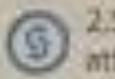
**SPIAGGE O
PIATTAFORME?**
SONO 12
MILIONI
I TURISTI
CHE ARRIVANO
OGNI ANNO
IN CROAZIA



10 settori
assegnati



3 compagnie
selezionate



2,5 miliardi di euro
attesi in 5 anni



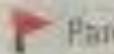
Consorzio Marathon Oil-CMV



INA



Consorzio ENI-MedOffGas



Parco nazionale o naturale



Serve:

- Ripristinare i nostri stock ittici a livelli sani (**Politica Comune della Pesca**)
- Aumentare i bilanci nazionali e comunitari per la ricerca
- Fermare la perdita di biodiversità marina
- Migliorare lo stato di conservazione degli habitat marini vulnerabili
- Approntare un sistema ecologicamente rappresentativo e ben collegato di aree protette
- Limitare gli effetti dei cambiamenti climatici sugli oceani, in particolare l'acidificazione
- Arrestare e invertire gli effetti dell'eutrofizzazione
- Affrontare tutte le altre fonti di inquinamento marino
- Garantire lo sviluppo sostenibile delle attività economiche che interessano l'ambiente marino
- Coinvolgere il pubblico nella protezione del mare e comunicare meglio problemi e obiettivi



grazie

www.marcoaffronte.it

