Biological status and developments of the main stocks Baltic Sea, North Sea and Northeast Atlantic Stocks

State of Fish Stocks and the Economics of Fishing Fleets
Seminar, Brussels 26 September 2016

Eskild Kirkegaard, ICES ACOM Chair

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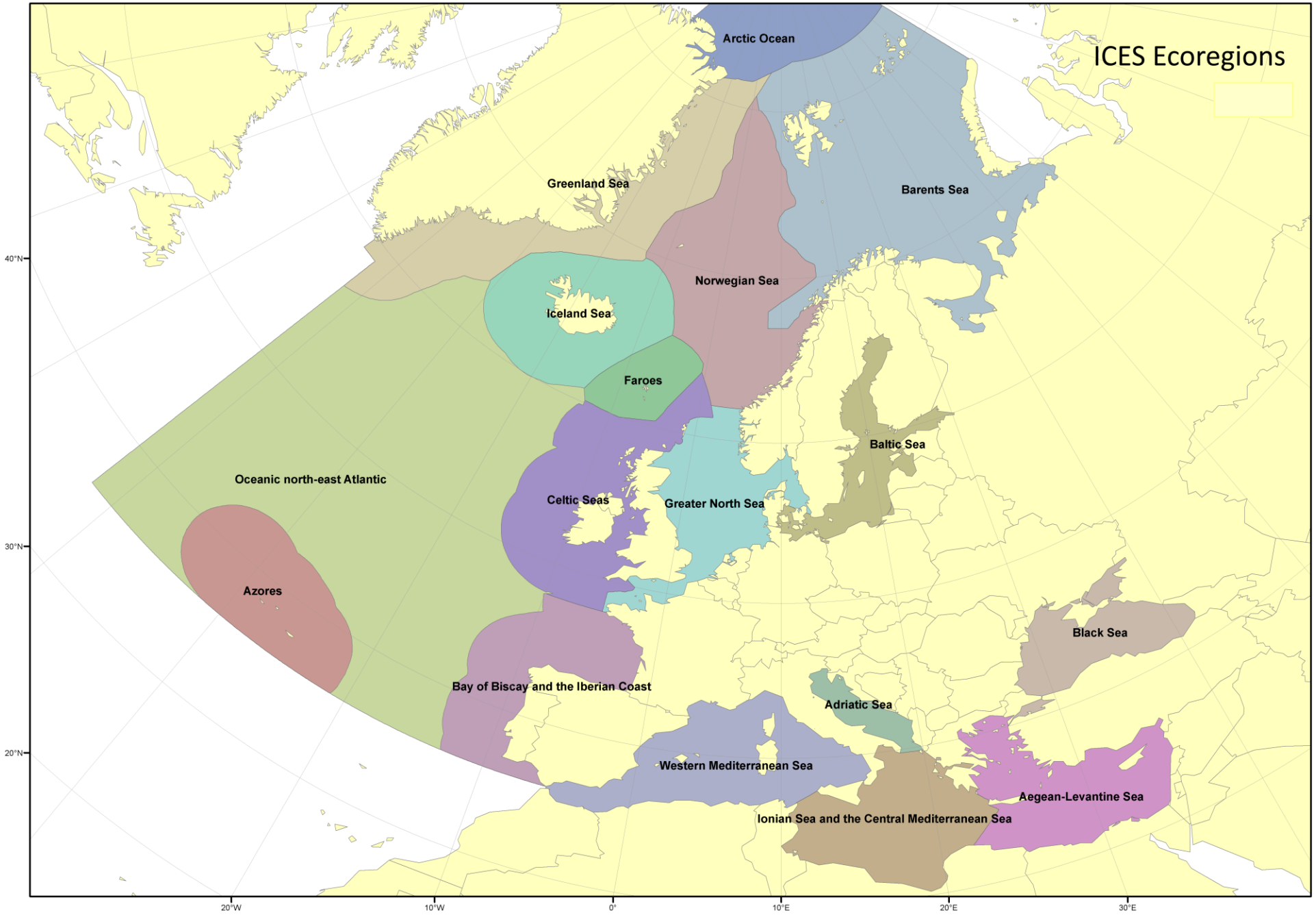
Science for sustainable seas


ICES Ecoregions
Arctic Ocean
Greenland Sea
Barents Sea
Norwegian Sea
Iceland Sea
Faroes
Baltic Sea
Oceanic north-east Atlantic
Celtic Seas
Greater North Sea
Azores
Black Sea
Bay of Biscay and the Iberian Coast
Adriatic Sea
Western Mediterranean Sea
Aegean-Levantine Sea
Ionian Sea and the Central Mediterranean Sea
40°N
30°N
20°N
20°W
10°W
0°
10°E
20°E
30°E

Developments in stock size

Causes for changes in stock size

Ecosystem impacts of the changes

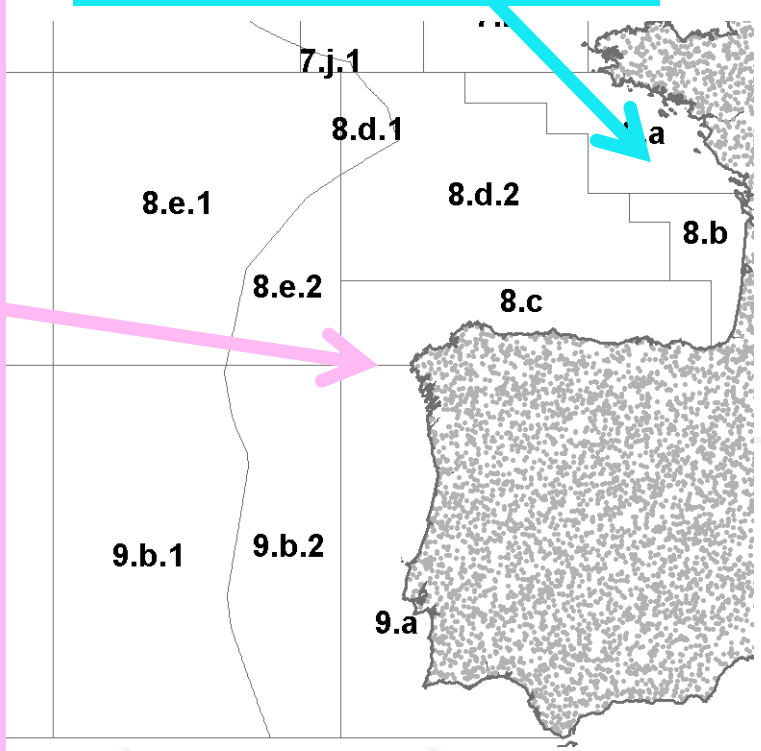
Fisheries and ecosystem overviews

BAY OF BISCAY:

- Sardine
- Sole
- Seabass

IBERIA (8c, 9a):

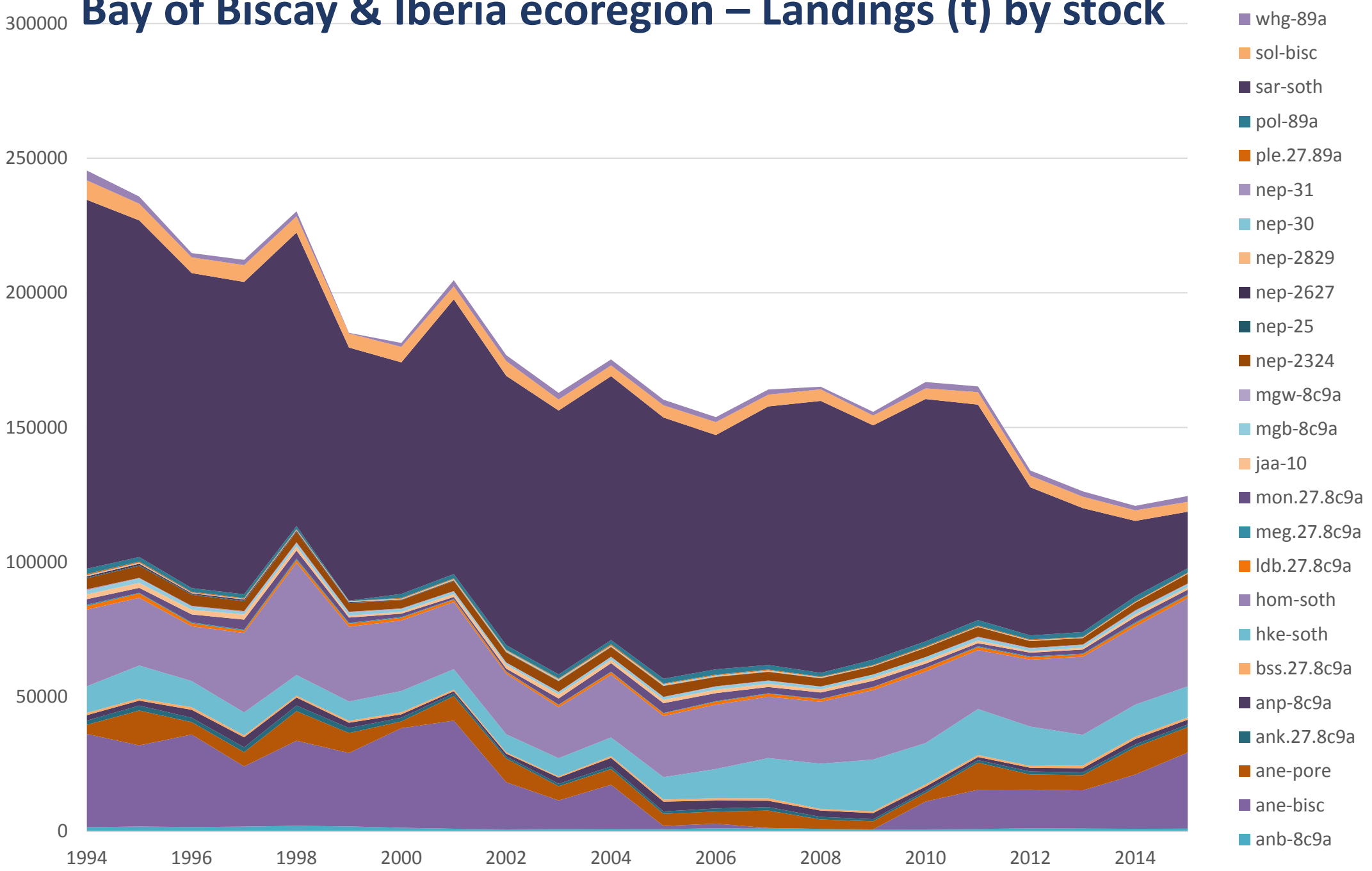
- Hake
- Anchovy
- Anglerfish (*pisc.*)
- Anglerfish (*budeg.*)
- Hake
- Horse mackerel
- Megrim (*whiff.*)
- Megrim (*bosc.*)
- Sardine
- Seabass
- Sole



8 and 9

- Plaice
- Pollack
- Whiting

Bay of Biscay & Iberia ecoregion – Landings (t) by stock



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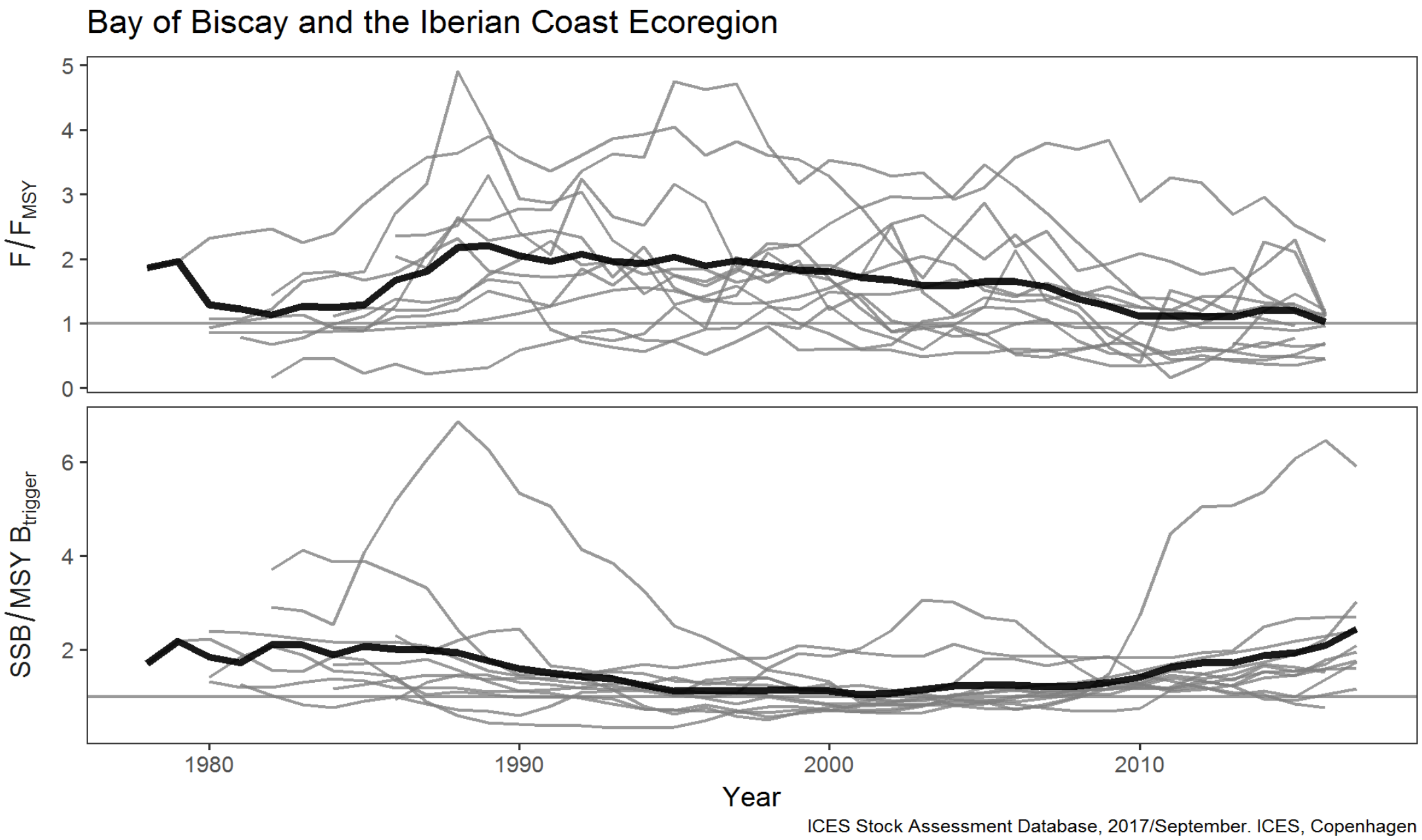
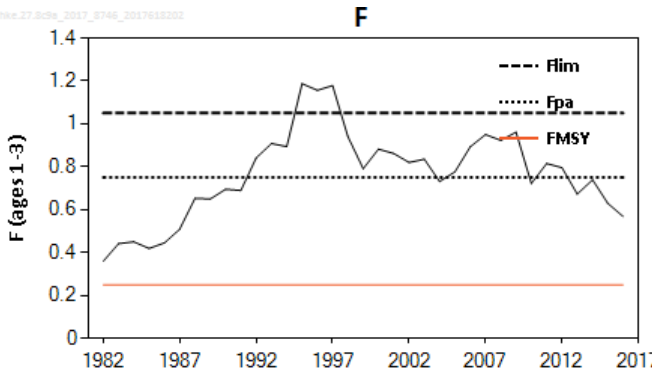
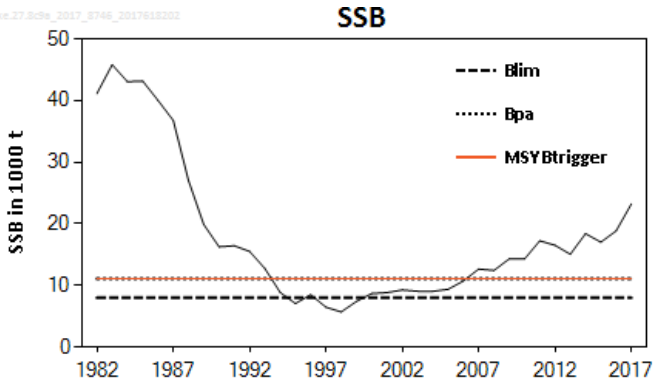
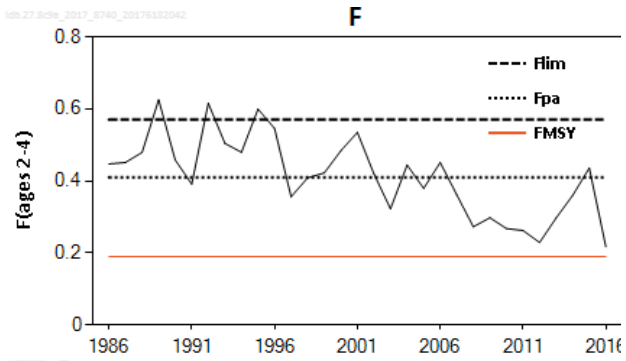


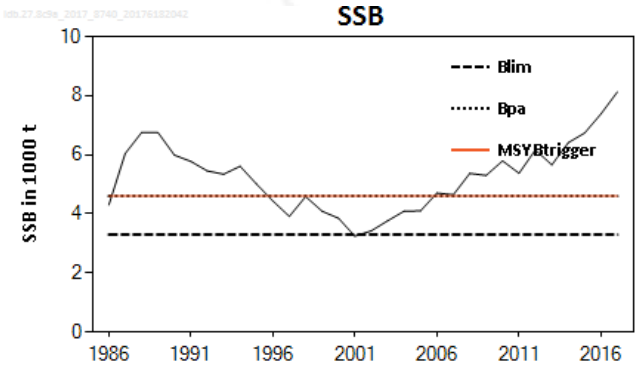
Bay of Biscay & Iberia ecoregion – Developments in stock size and exploitation



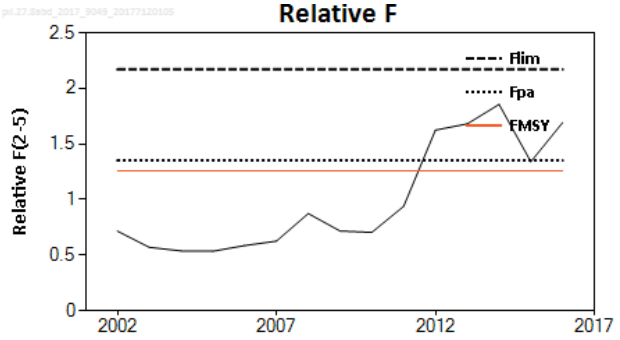


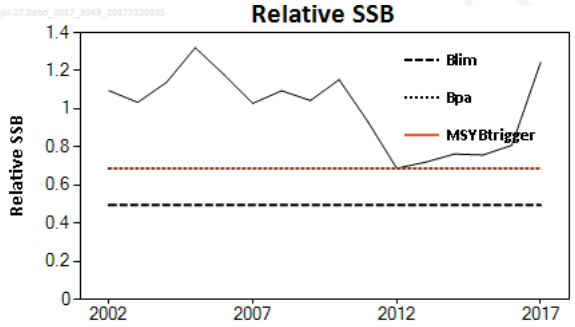
Hake, southern stock





Four-spot megrim





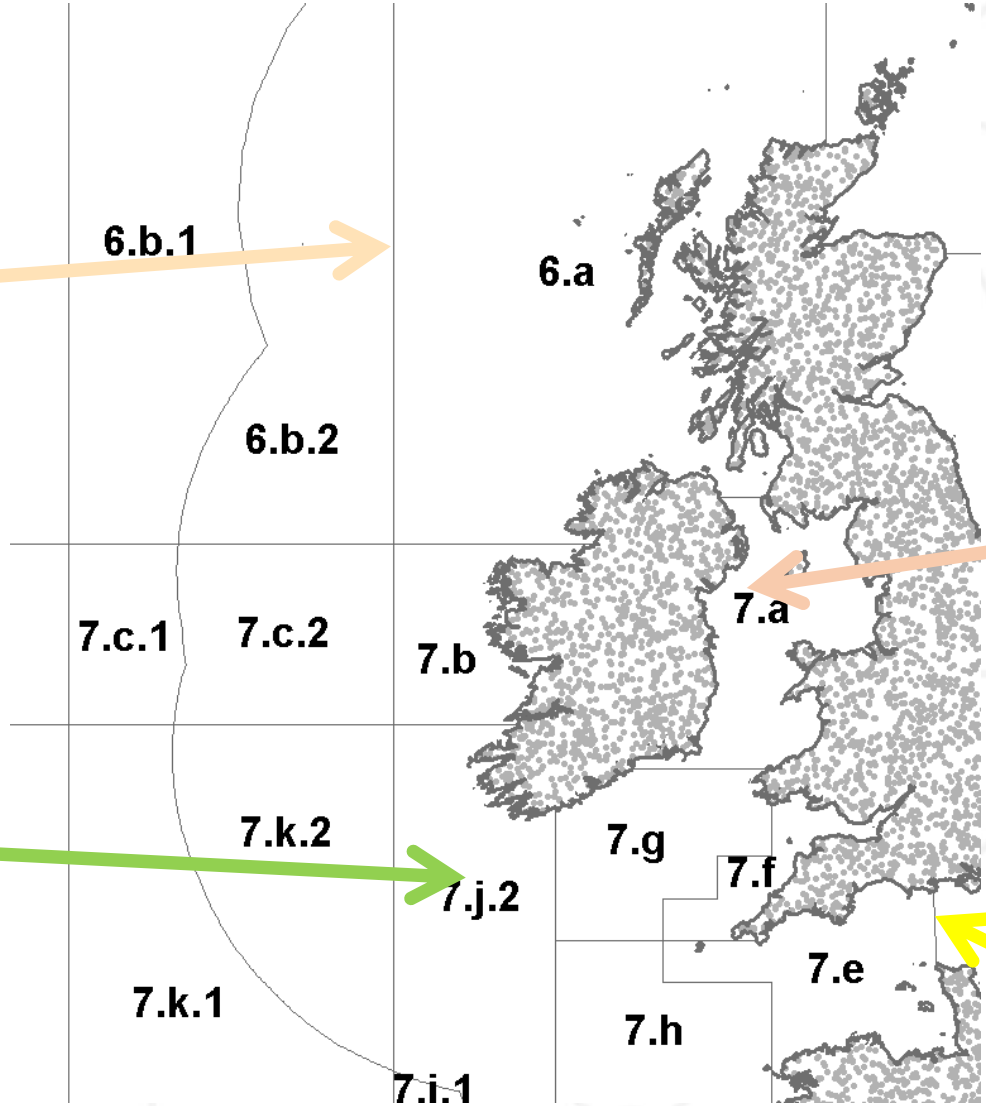
Sardine, Bay of Biscay

West of Scotland & Rockall

- Cod
- Haddock
- Herring
- Whiting
- Megrim

Celtic Sea & West, Southwest Ireland

- Cod
- Haddock
- Herring
- Whiting
- Plaice
- Sole
- Anglerfish
- Pollach
- Sea bass



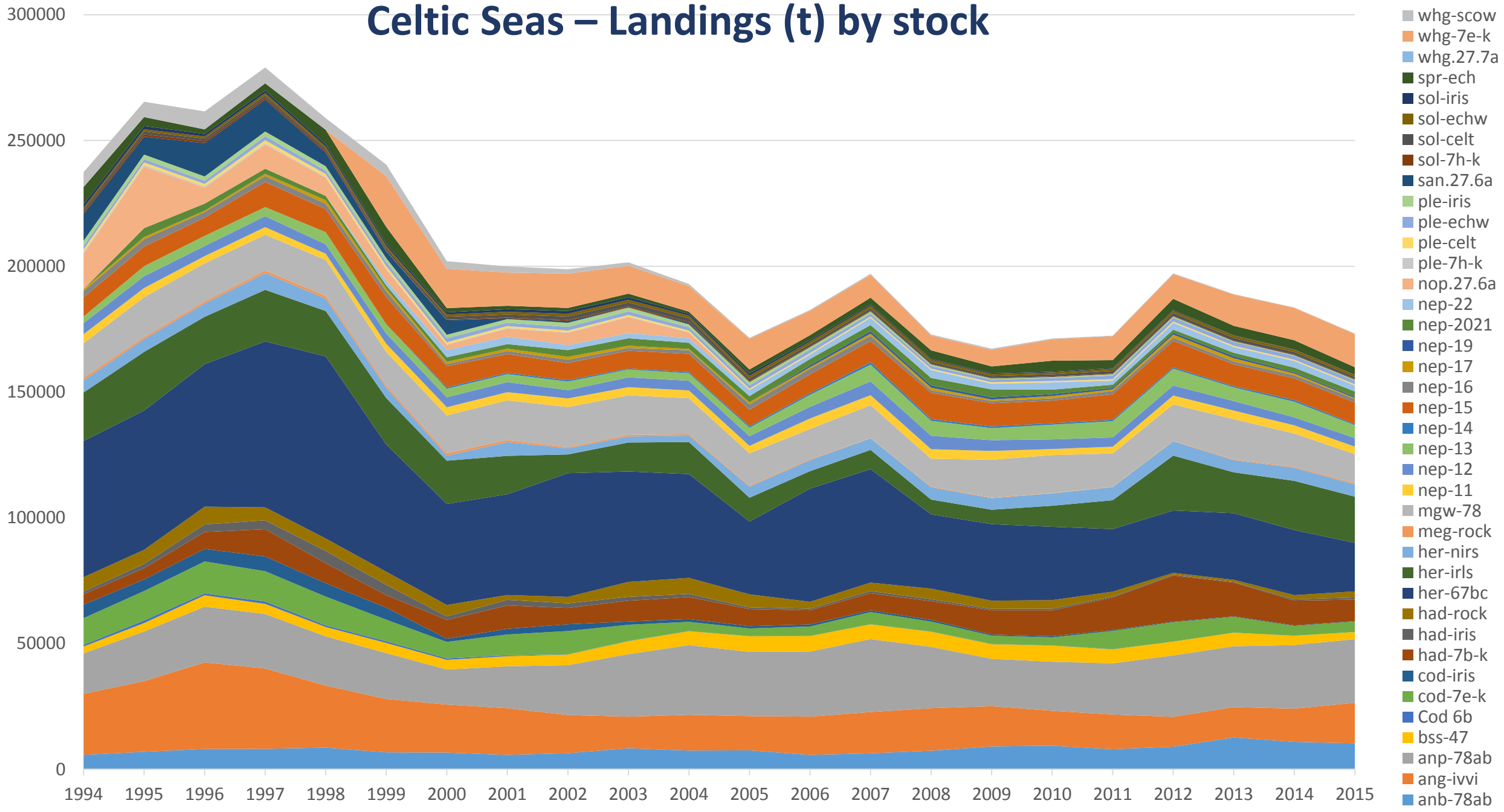
Irish Sea

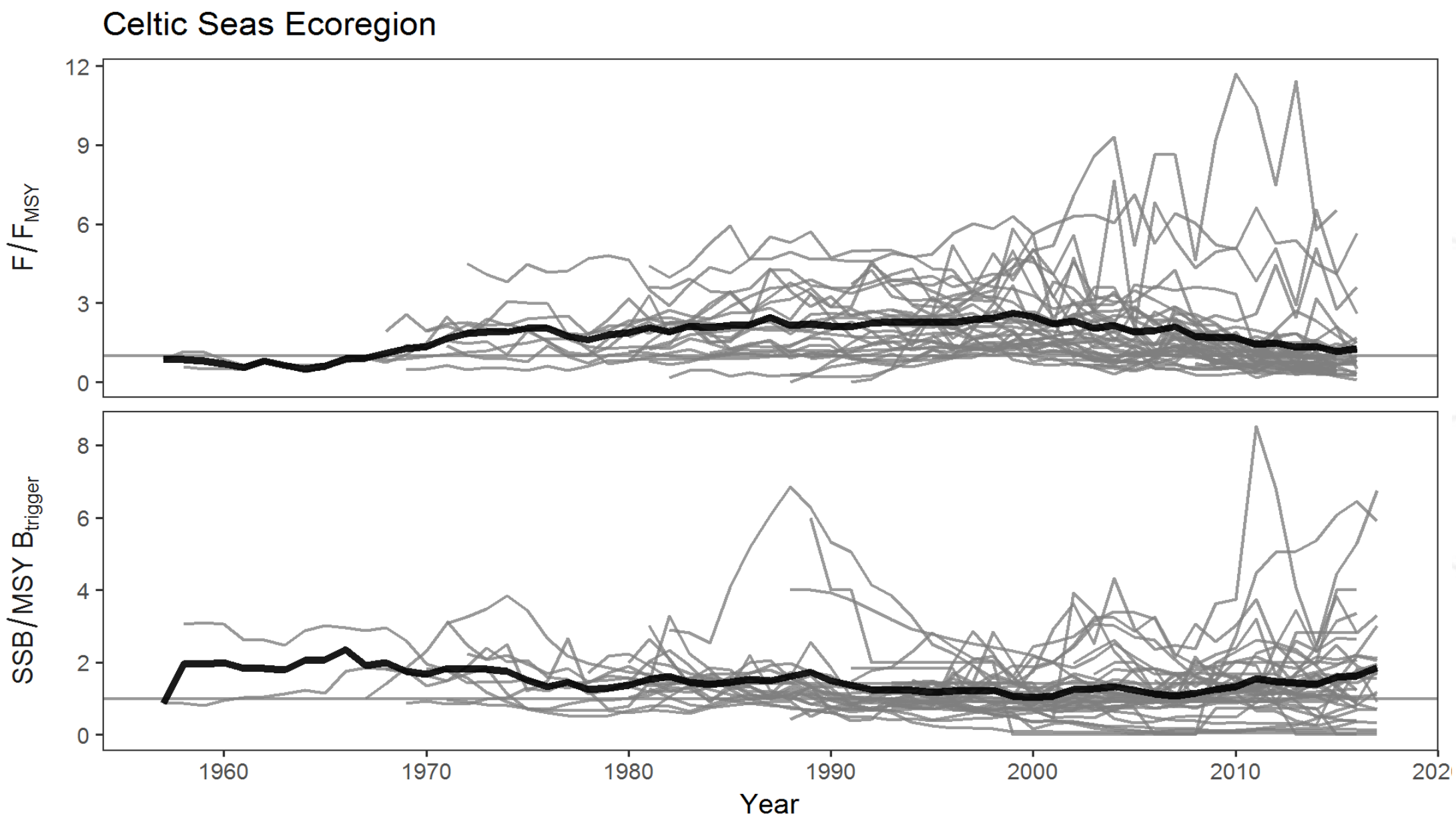
- Cod
- Haddock
- Whiting
- Plaice
- Herring
- Sole

- Cod
- Sole
- Plaice

Celtic Seas ecoregion

Celtic Seas – Landings (t) by stock





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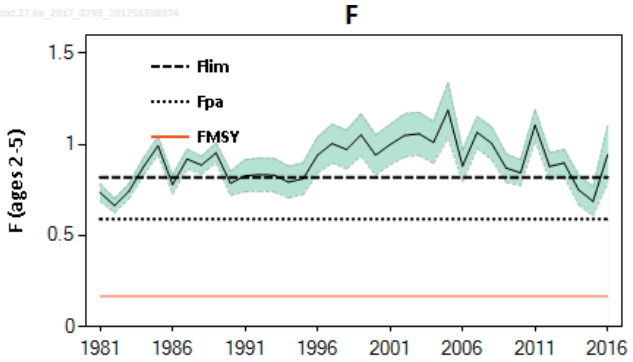
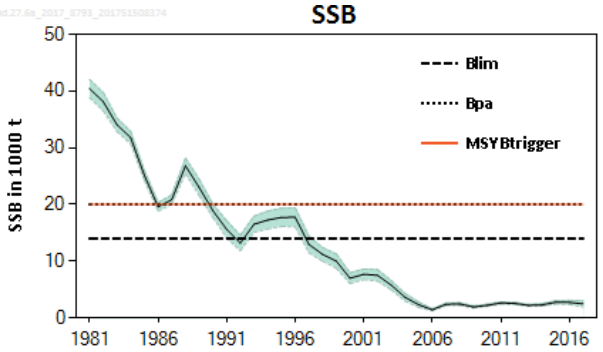
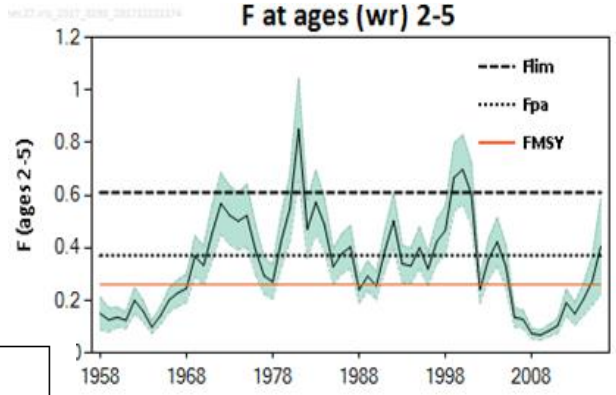
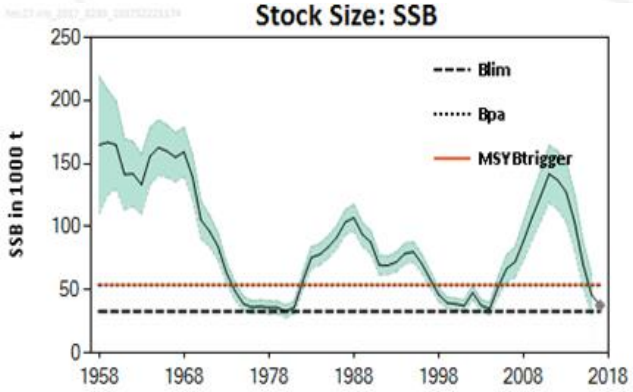
Celtic Sea & West of Scotland ecoregion – Developments in stock size and exploitation



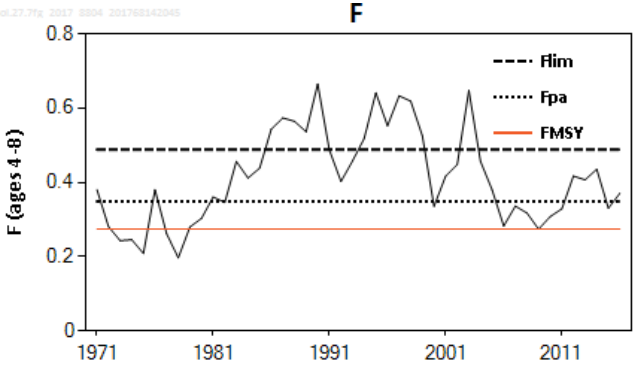


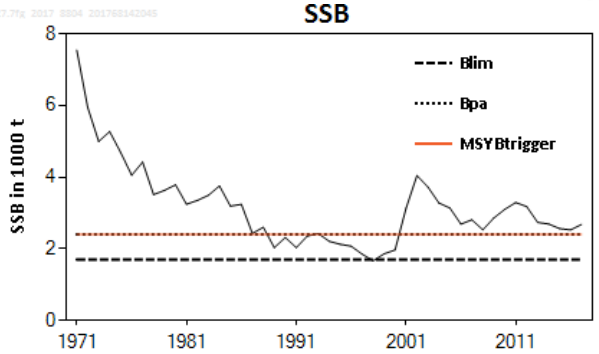
Cod west of Scotland





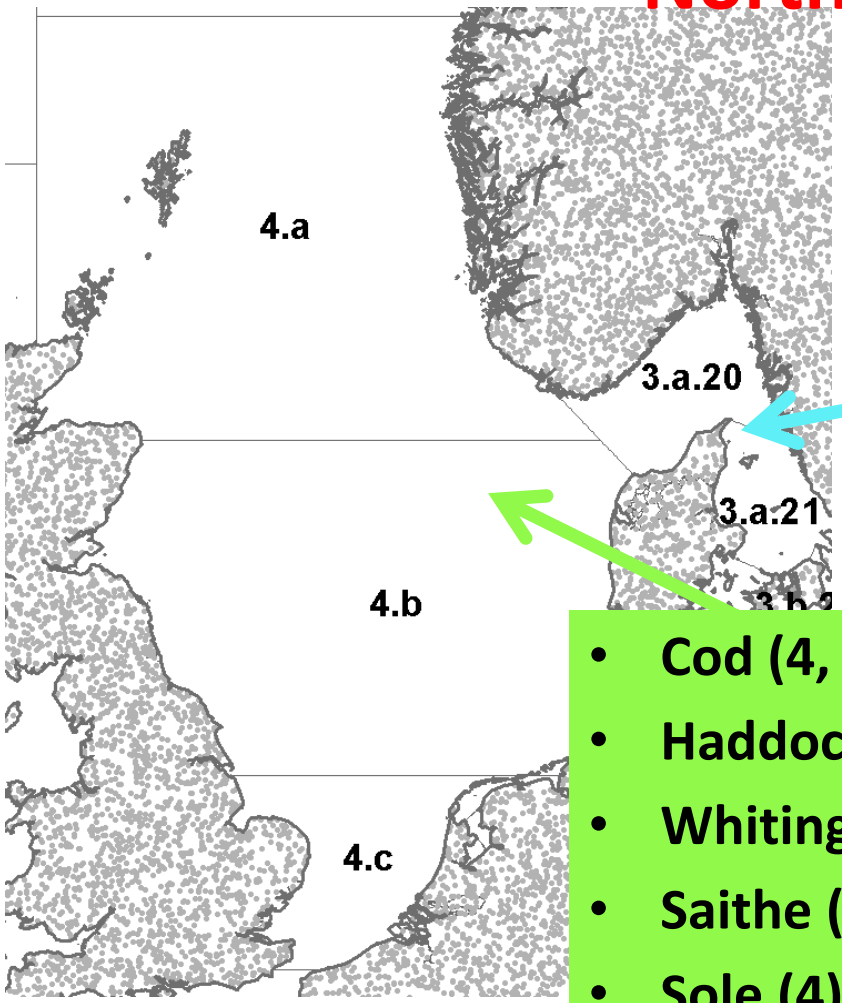
Herring Irish Sea, Celtic Sea, and southwest of Ireland





Sole Bristol Channel, Celtic Sea

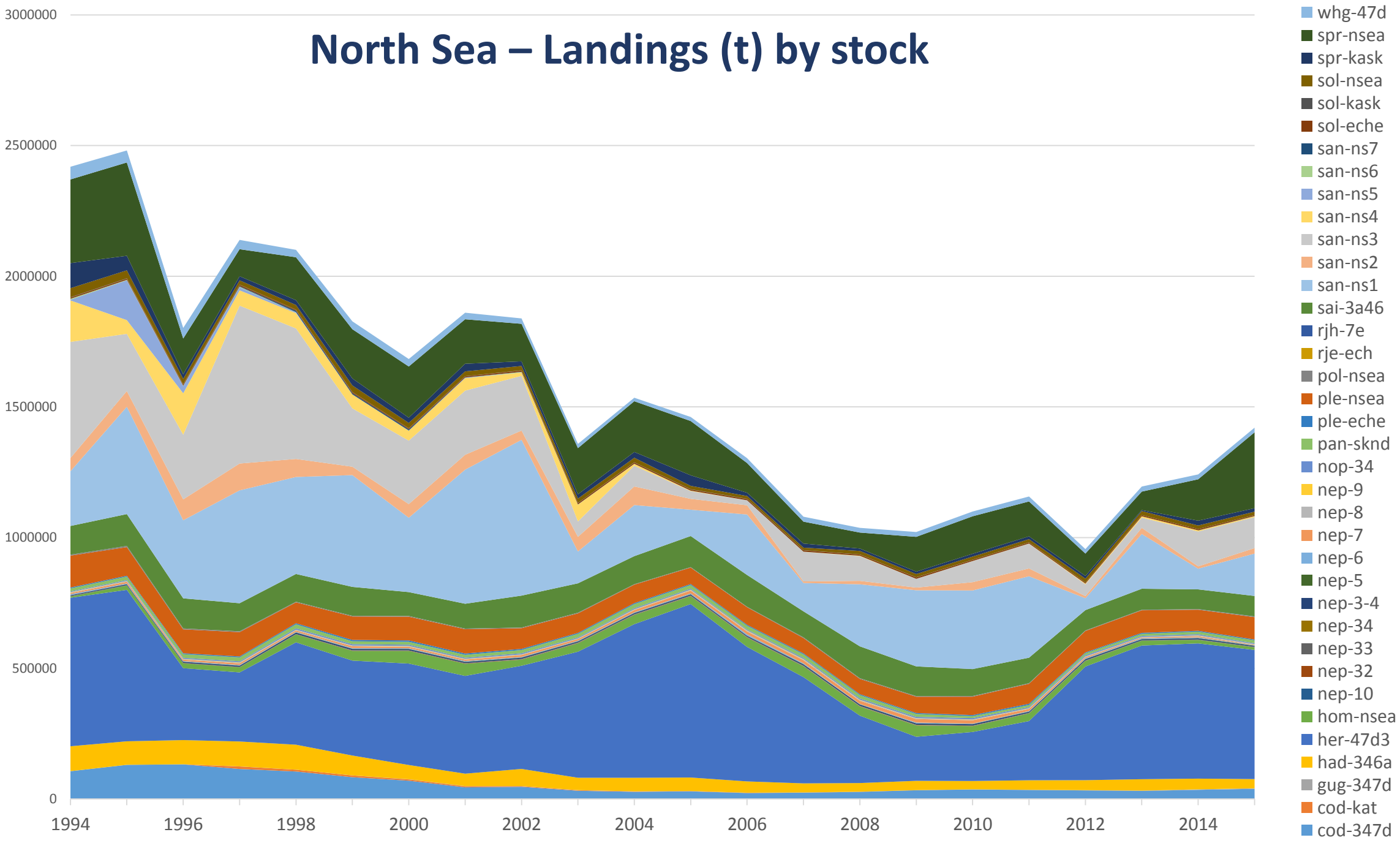
North Sea, Skagerrak and Kattegat



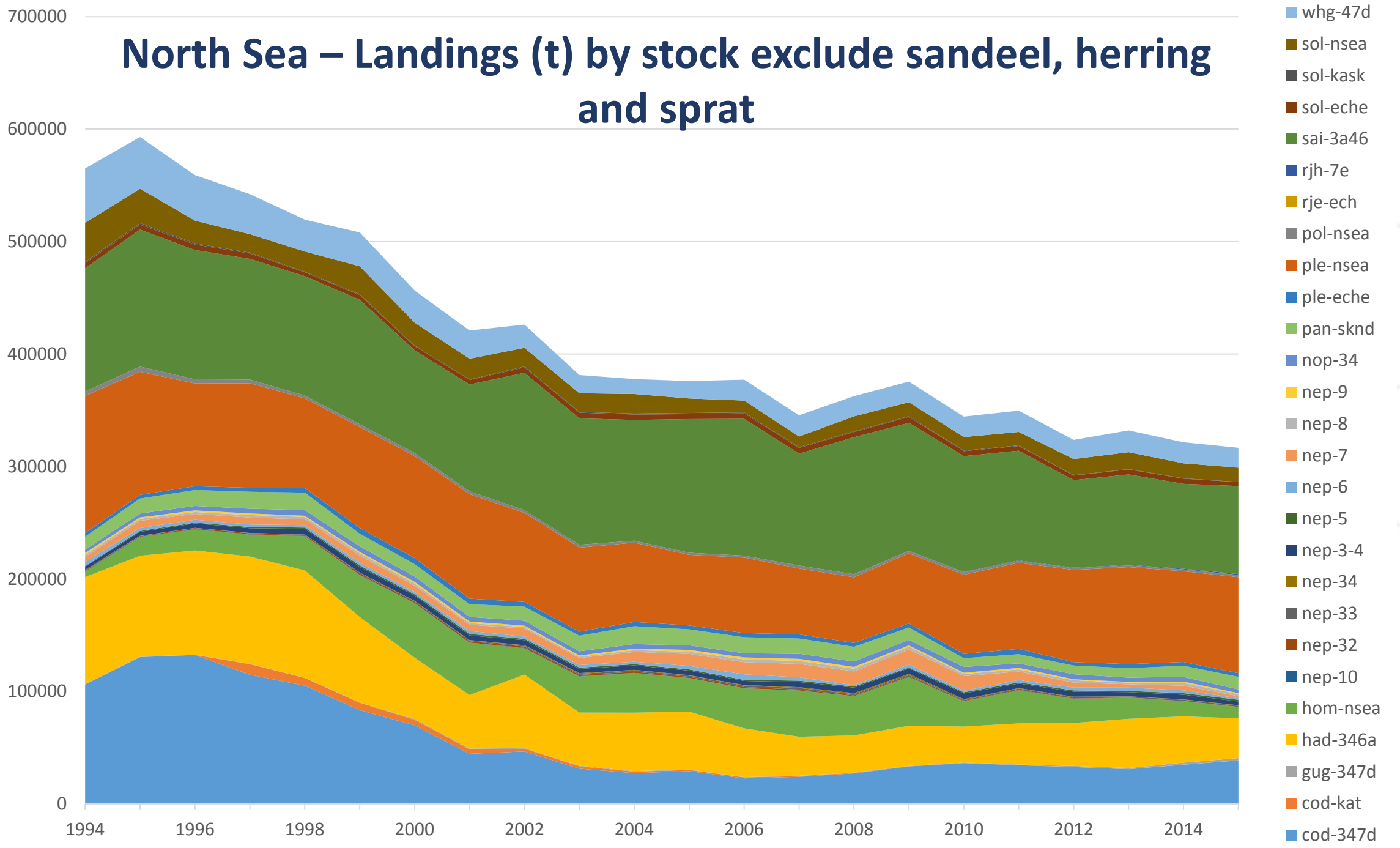
- Cod in Kattegat
- Whiting in 3a
- Sole in 3a & SD 22-24
- Turbot in 3a
- *Nephrops* in 3a
- Plaice SD 21- 23

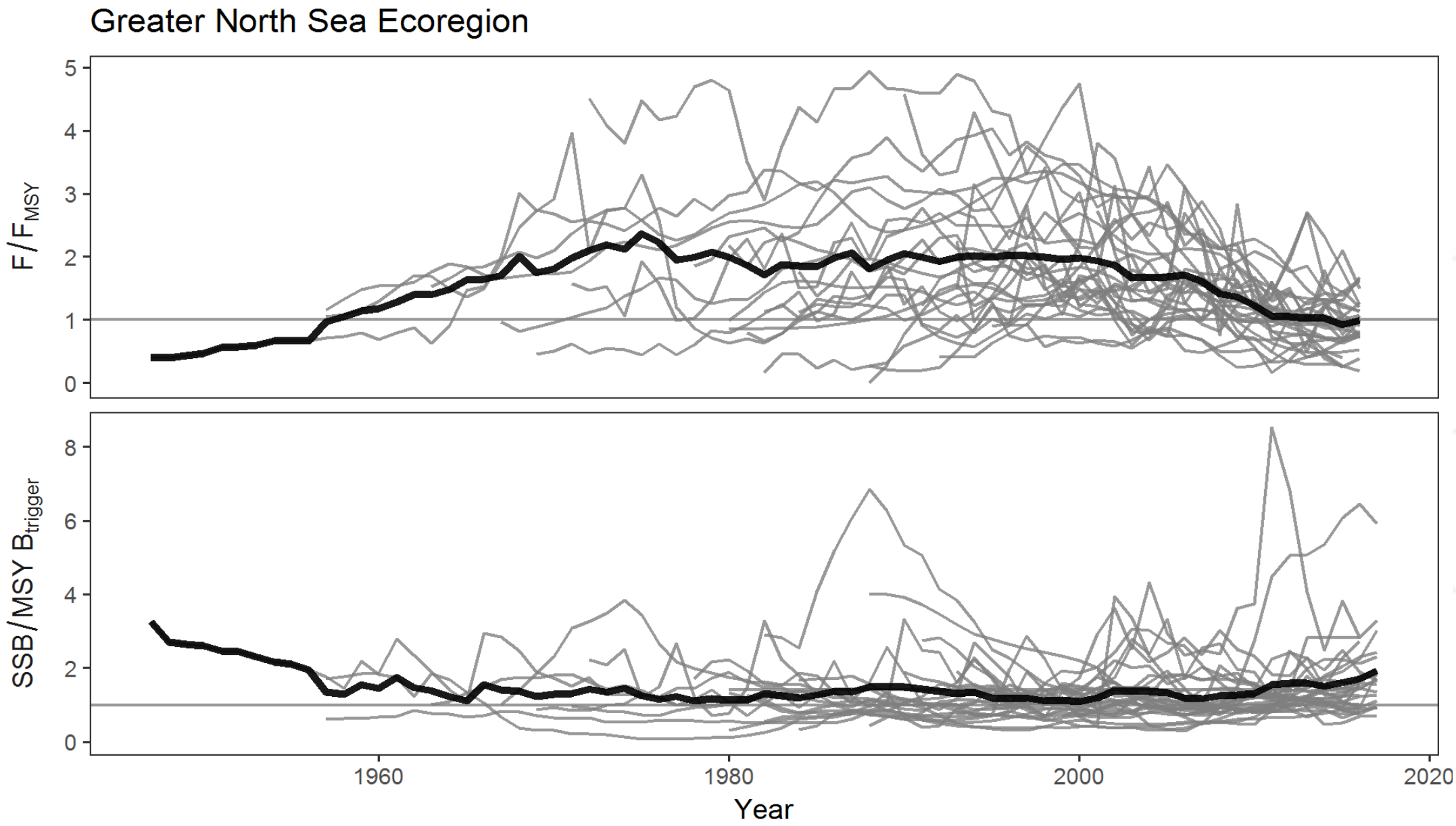
- Cod (4, Skagerrak, 7d)
- Haddock (Northern Shelf)
- Whiting (4, 7d)
- Saithe (4, 3a, 6)
- Sole (4)
- Plaice (4, Skagerrak)
- *Nephrops* (4)
- Northern hake
- Sea bass (4bc, 7a, 7d-h)
- Megrim
- Turbot
- Brill
- Dab
- Flounder
- Lemon sole
- Witch
- Striped red mullet

North Sea – Landings (t) by stock



North Sea – Landings (t) by stock exclude sandeel, herring and sprat





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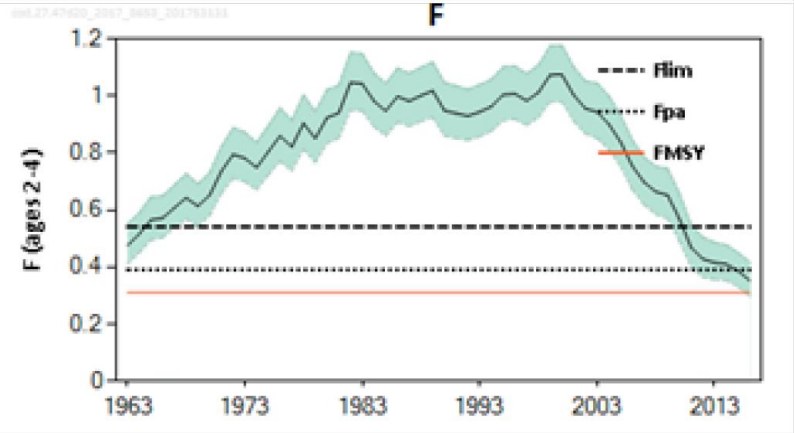
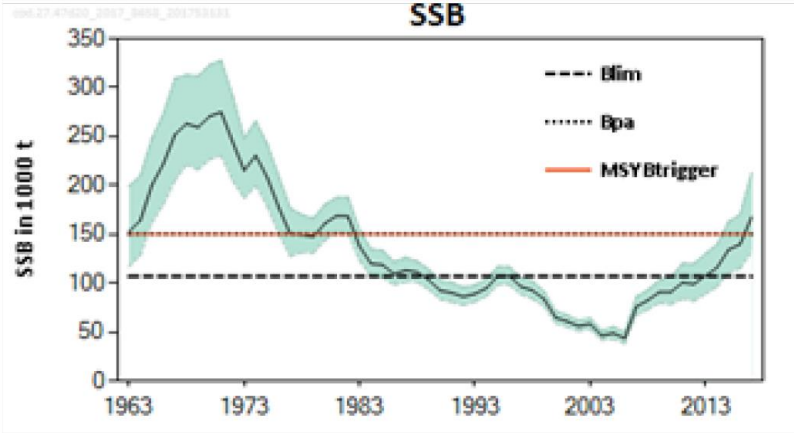
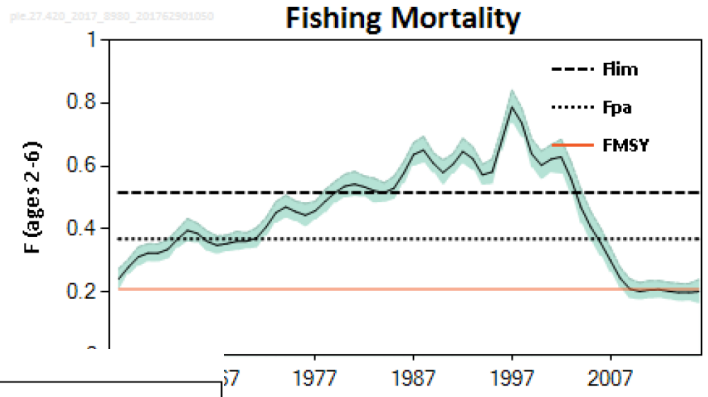
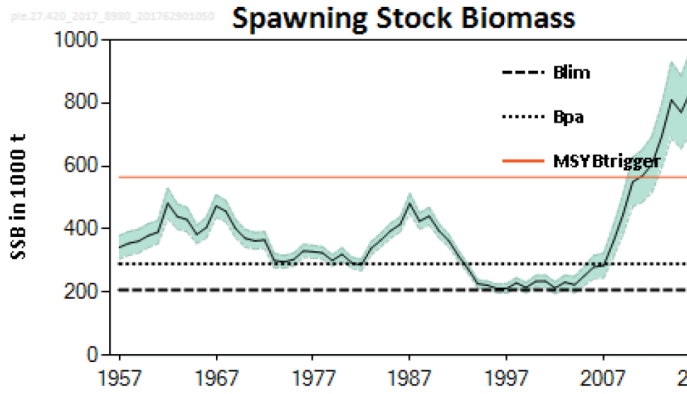
North Sea ecoregion – Developments in stock size and exploitation



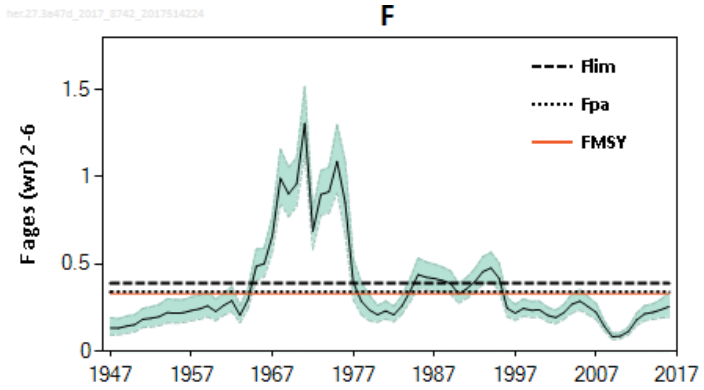


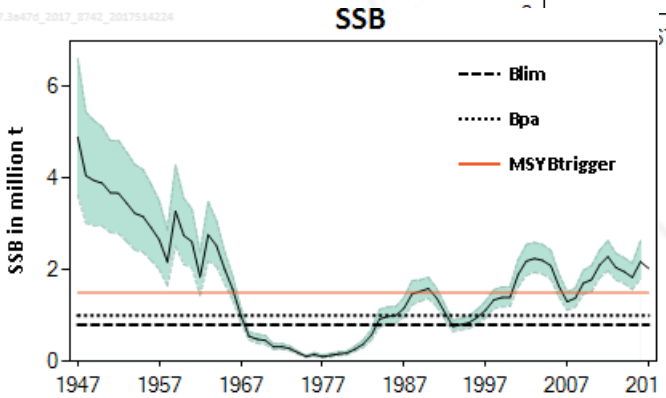
North Sea cod





North Sea plaice





North Sea herring

Dab 22 – 32

Sea trout 22 – 32

Turbot 22 – 32

HERRING:

- Gulf of Bothnia
- Central Baltic
- Gulf Riga

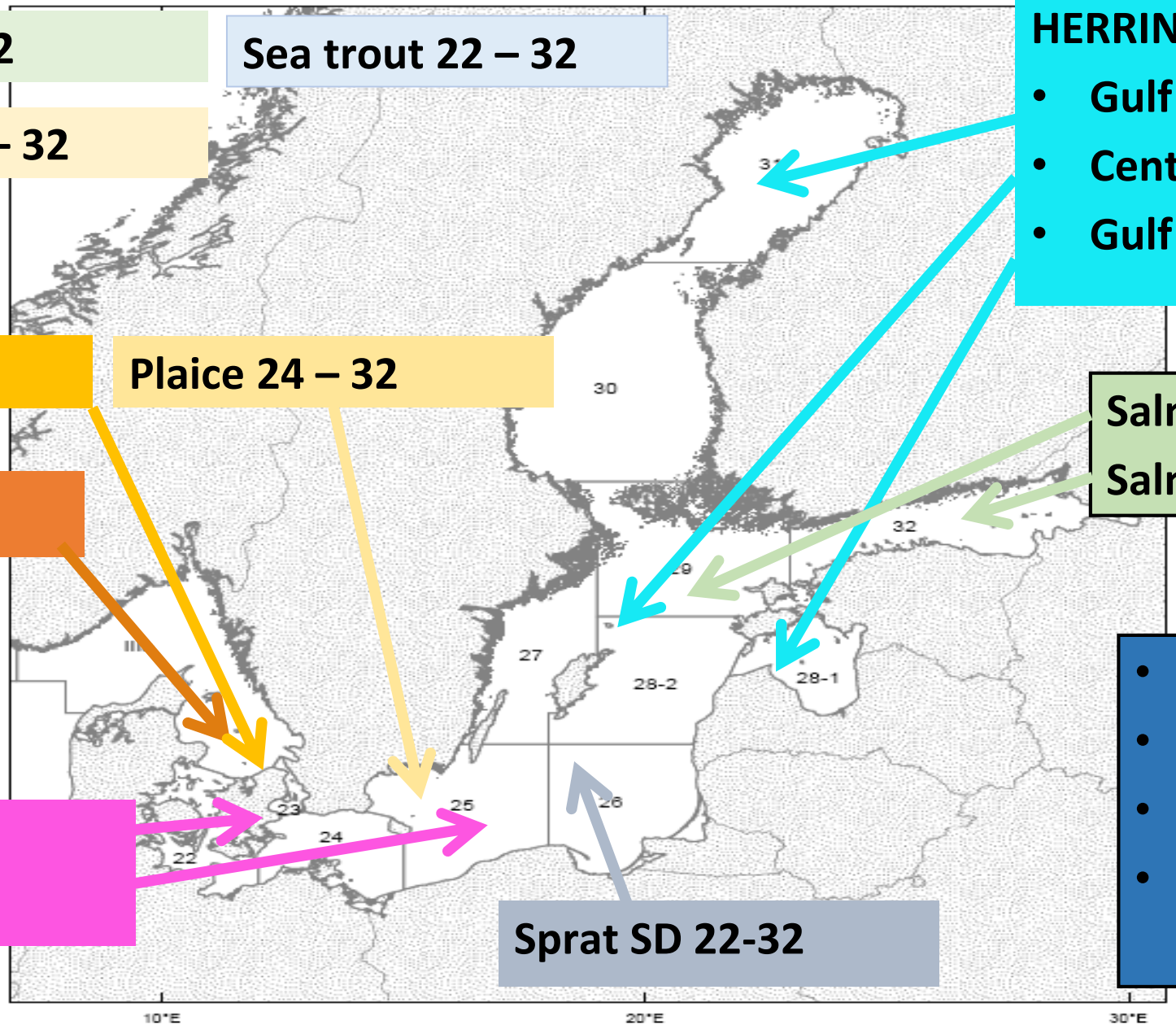
Plaice 21 – 23

Plaice 24 – 32

Salmon 22 – 31

Salmon 32

Herring 20 - 24

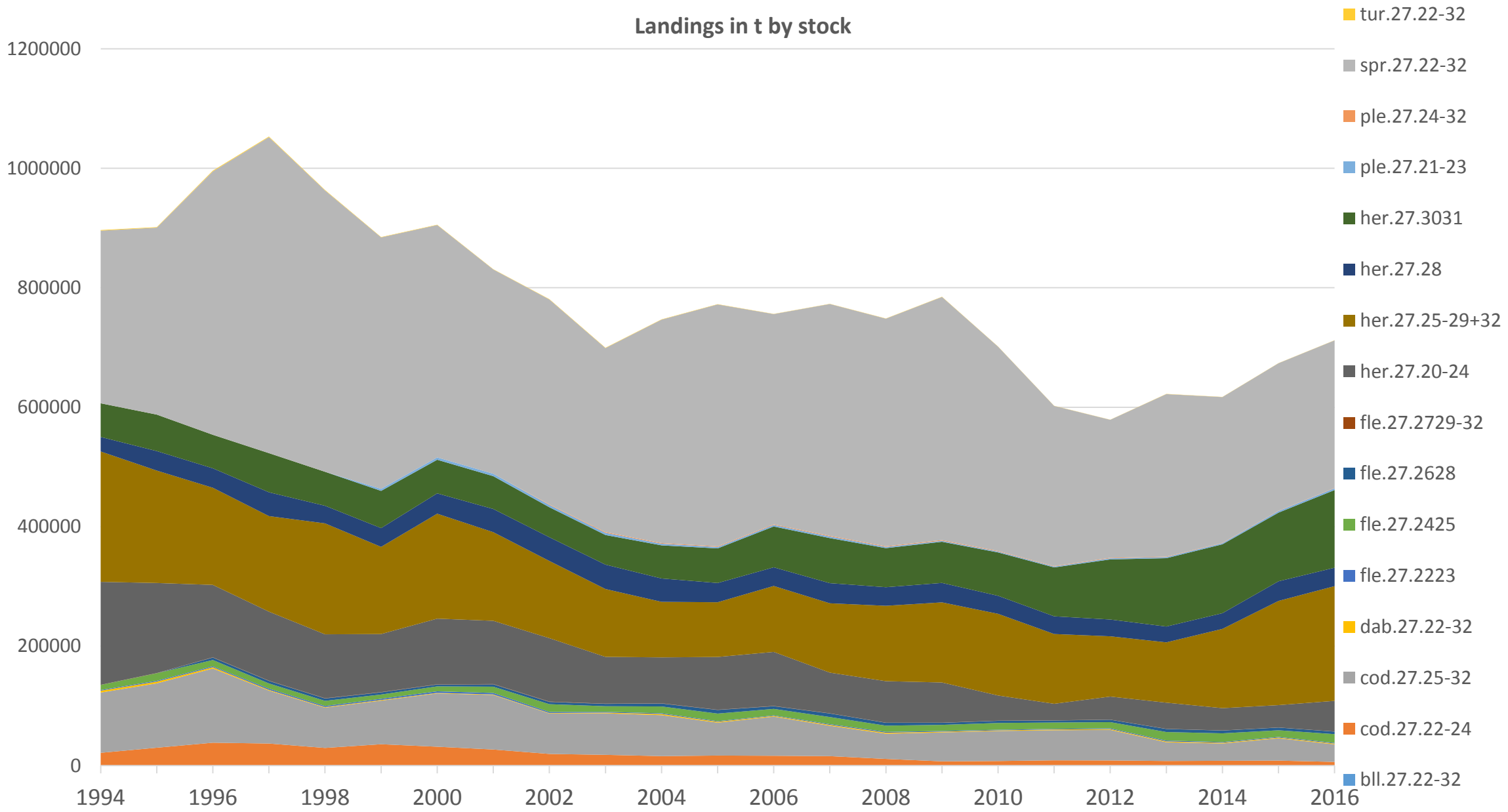


- Flounder 22 – 23
- Flounder 24 – 25
- Flounder 26 & 28
- Flounder 27 & 29 – 32

- Cod SD 22-24
- Cod SD 24-32

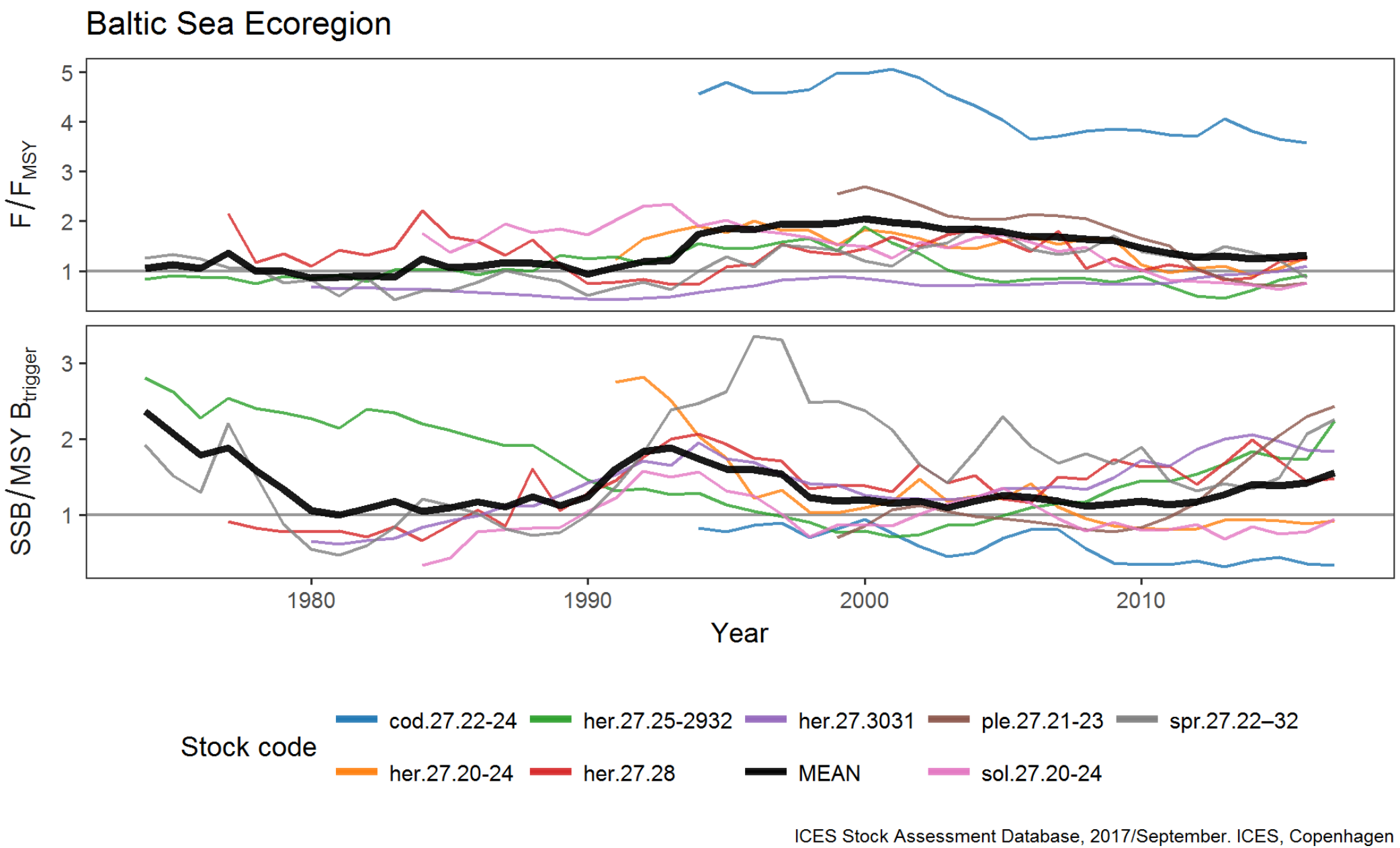
Sprat SD 22-32

Baltic Sea



Baltic Sea – Landings (t) by stock

Science for sustainable seas



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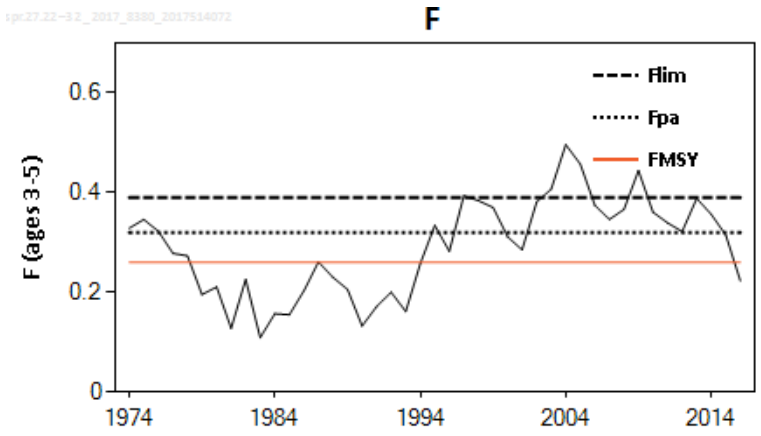
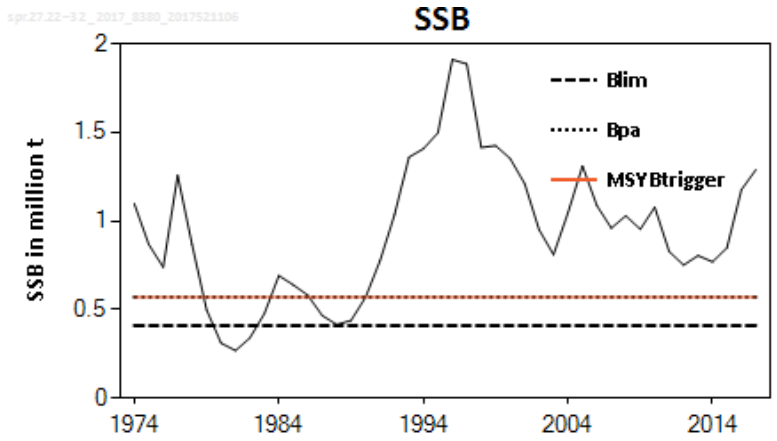
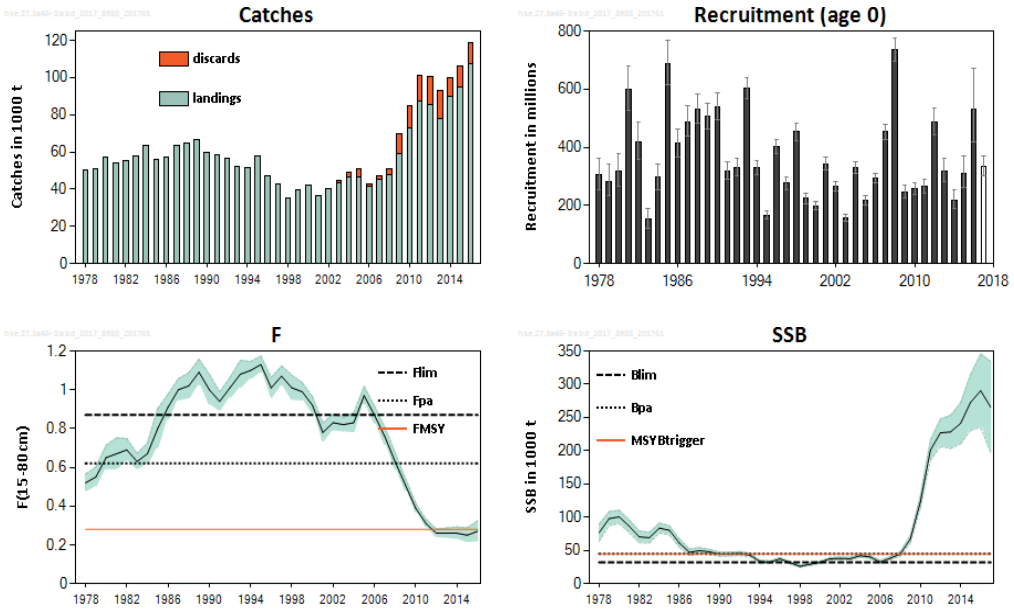
Baltic Sea – Stock size and exploitation

Science for sustainable seas

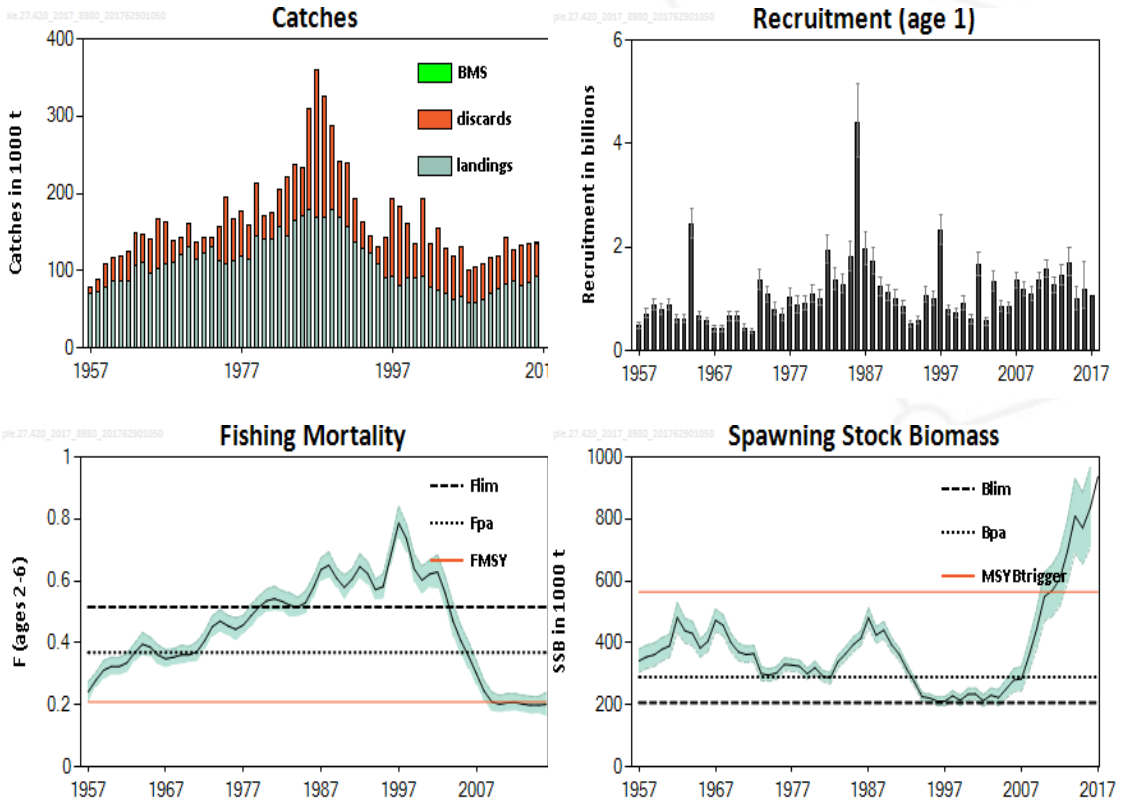




Baltic Sea sprat



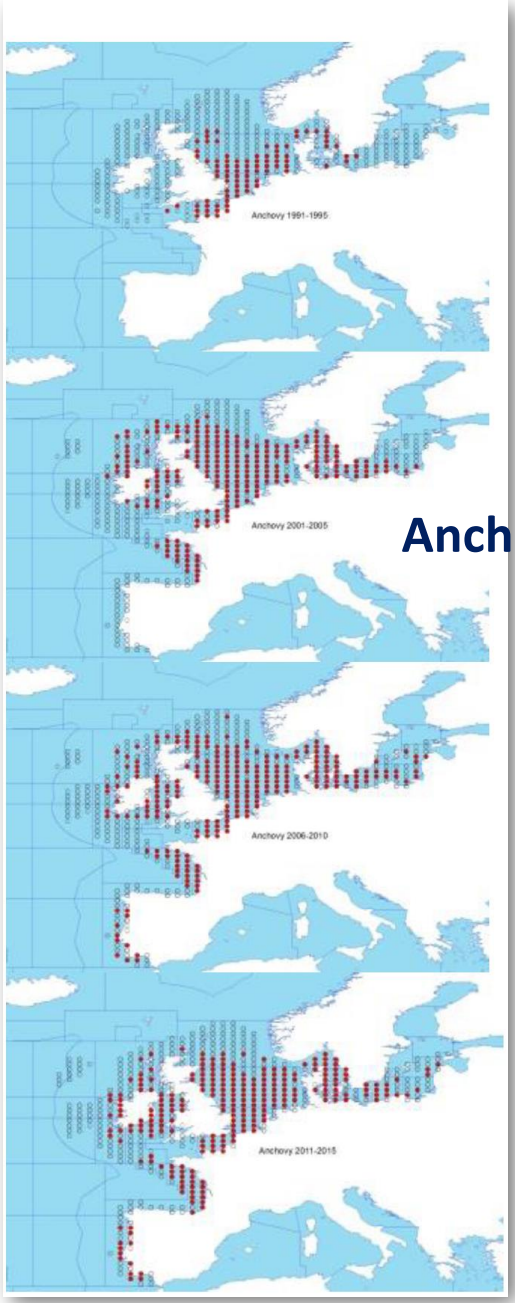
Northern hake



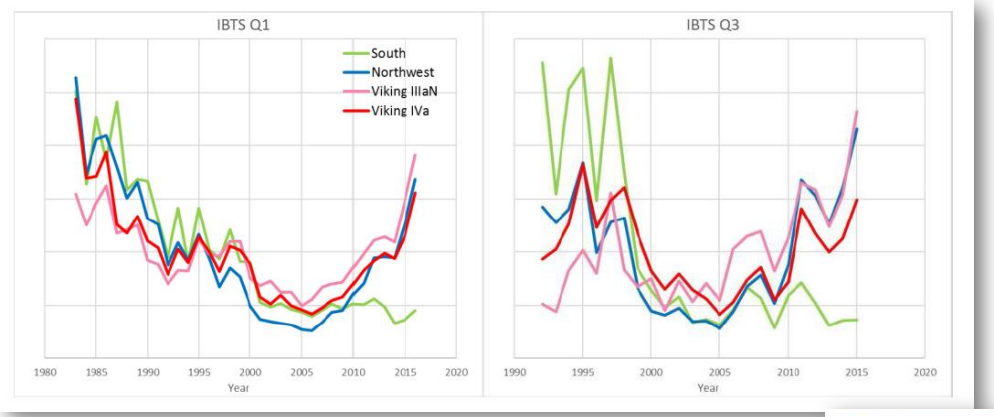
Plaice North Sea

General trend in stock size and exploitation

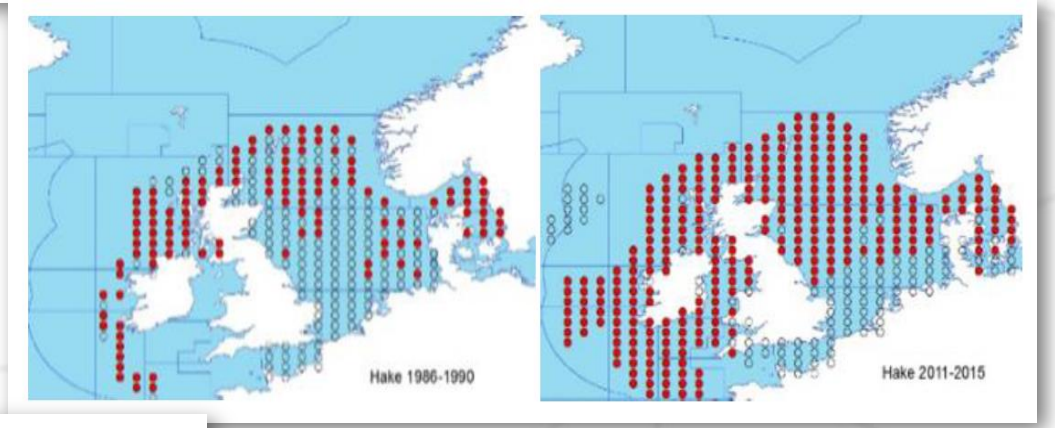
Science for sustainable seas



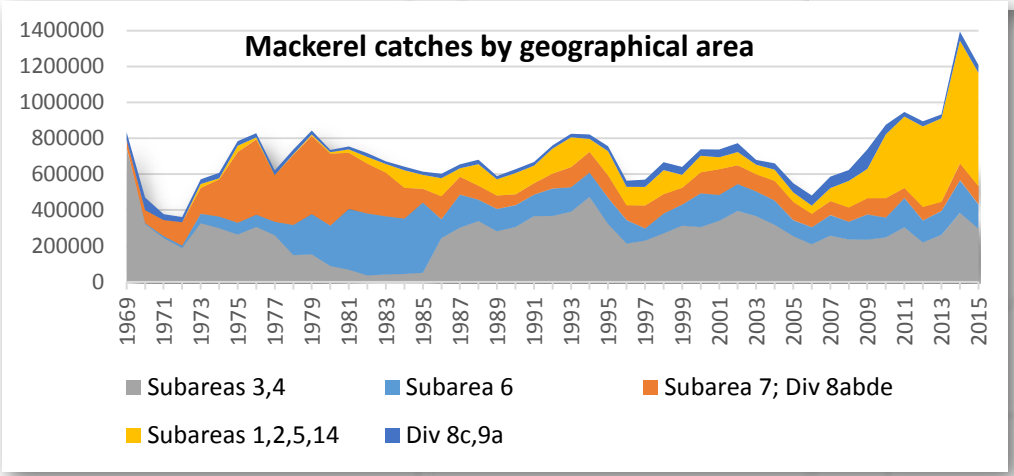
Anchovy



North Sea cod

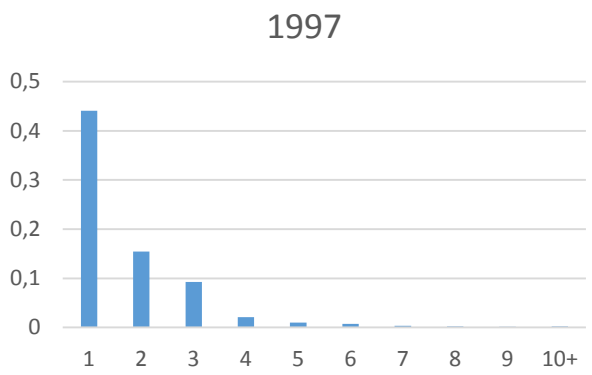


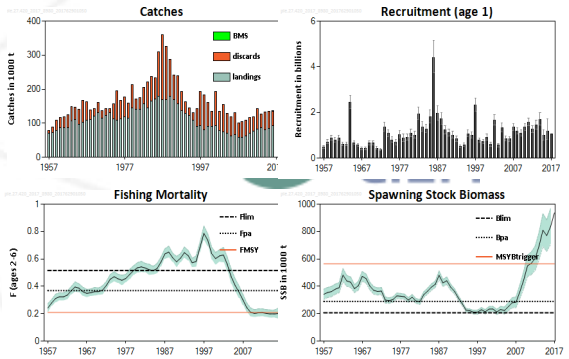
Northern hake

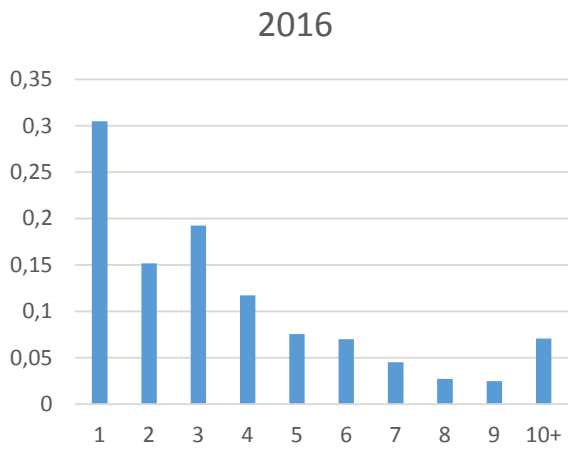


Distribution

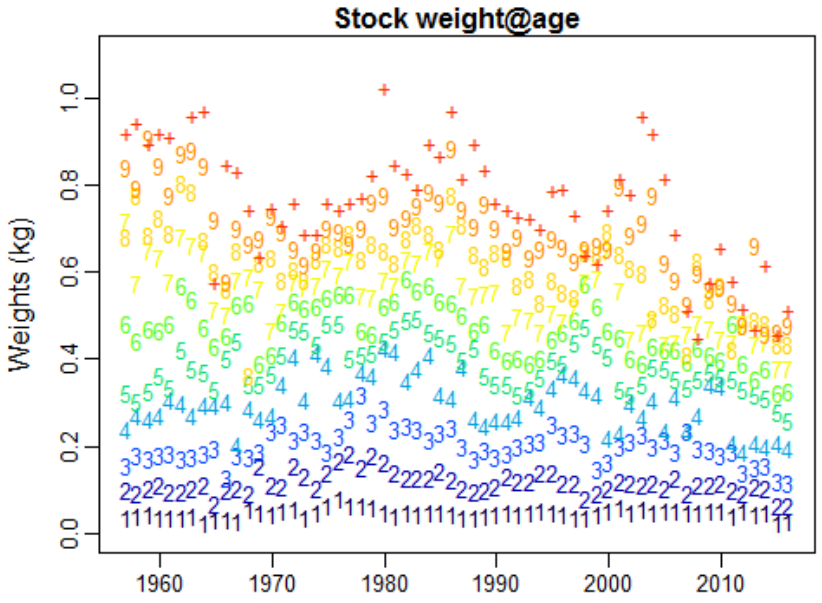
Plaice North Sea





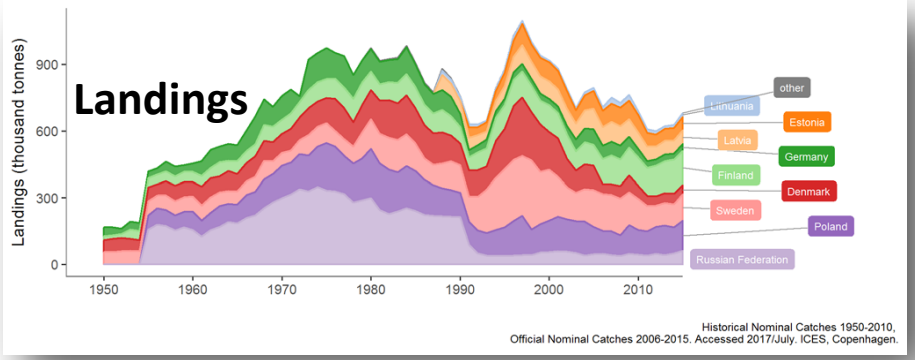


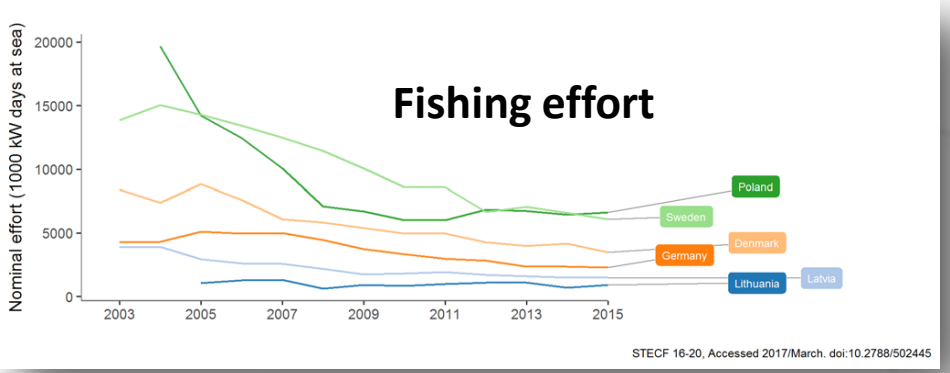
Age composition

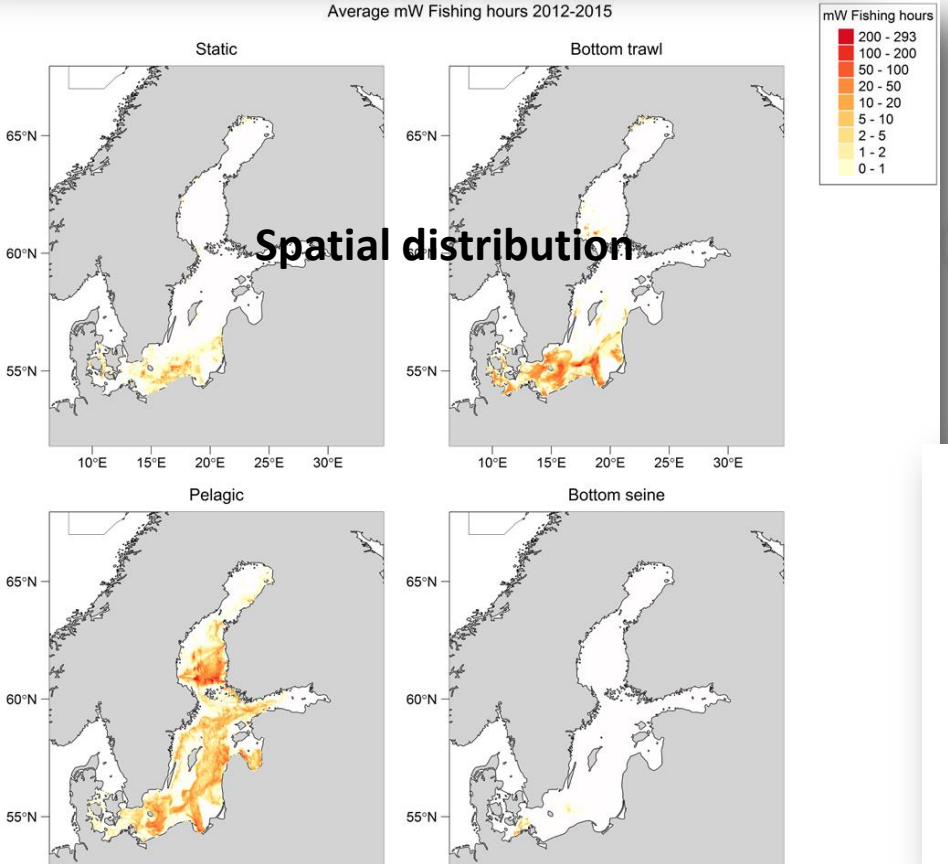


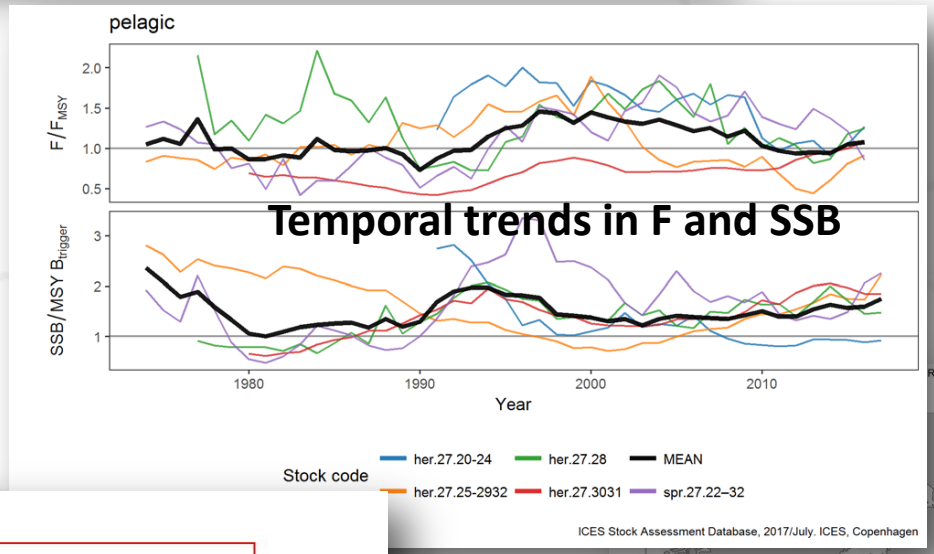
Plaice - benthic invertebrates

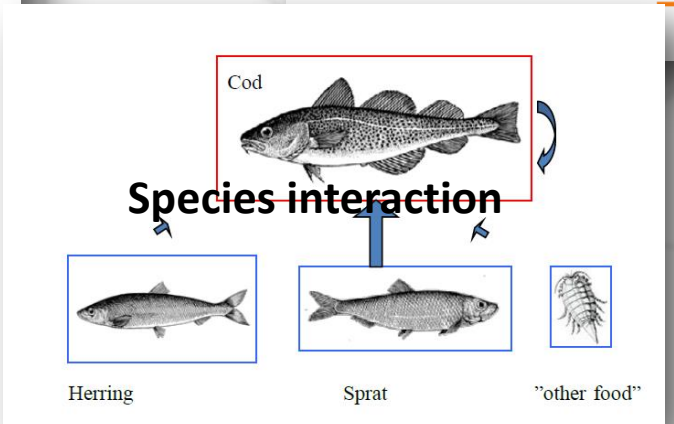
ICES Fisheries overviews

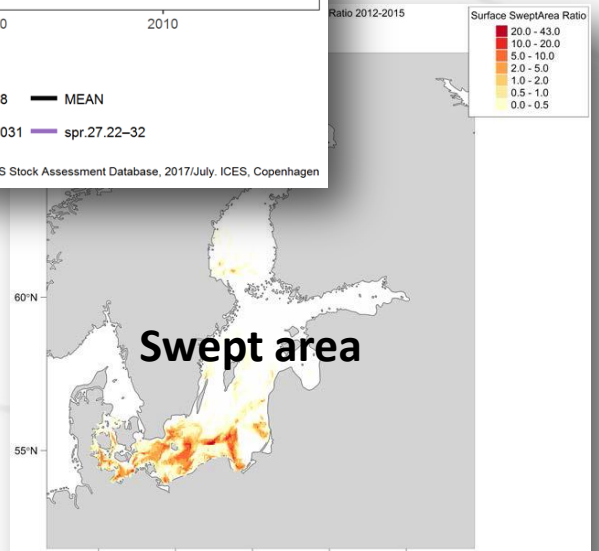












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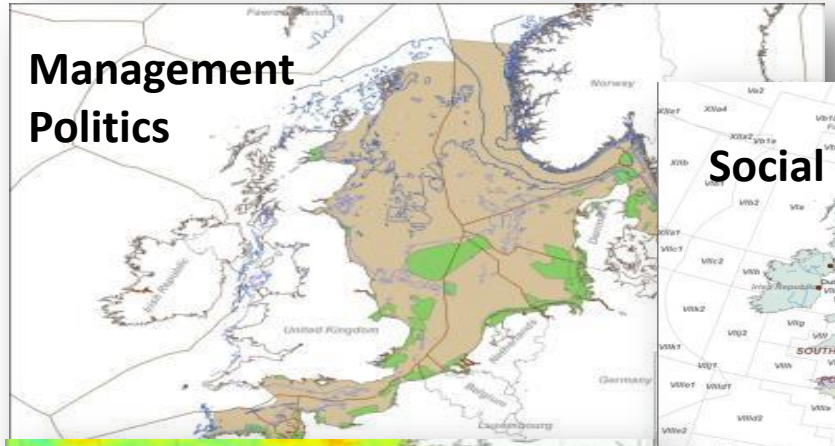

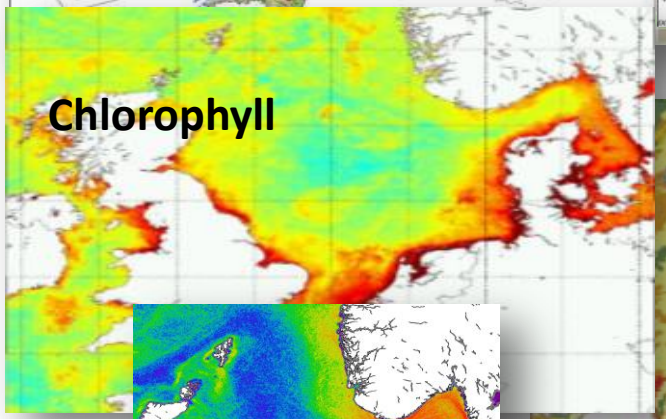

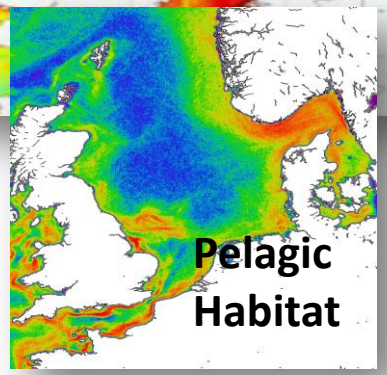

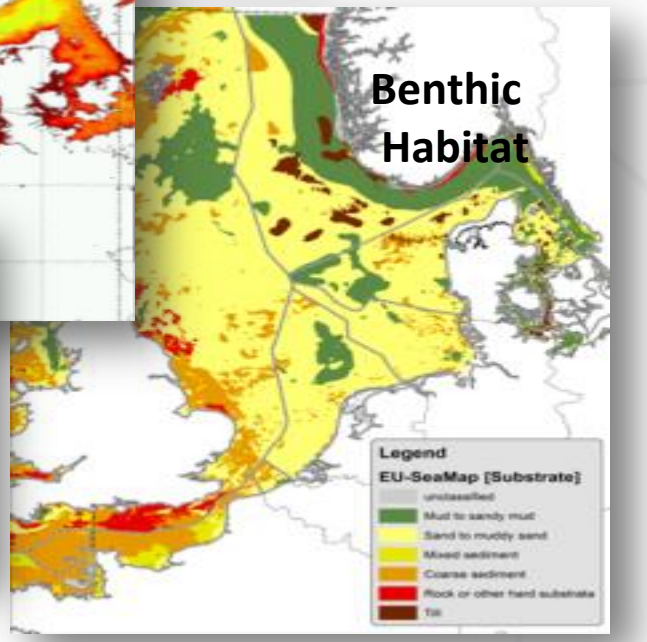

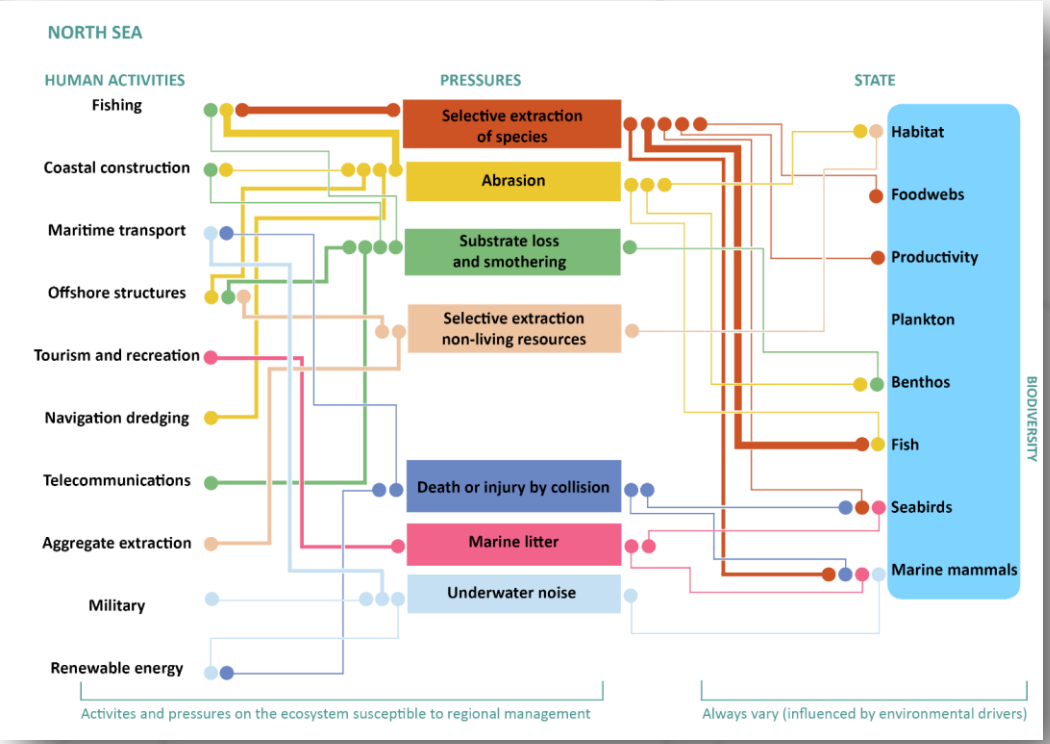

Science for sustainable seas

Thank you