



# Stock Shifts In The North Sea

## Challenges and opportunities for the recreational fishing sector

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# Why are we talking about this?

9 million EU citizens

1.6% of the European population

€10.5 billion

100,000 jobs

7% of the annual EU budget

or

0.07% of the EU economy

or

Roughly equivalent to the cost of the  
London 2012 Olympic Games!



100,000 FTEs supported is, in context, almost...

Four times the staff of the EU Commission!

Considered as a single company, in terms of  
number of employees.

**In the top 10 in Europe!**

# North Sea

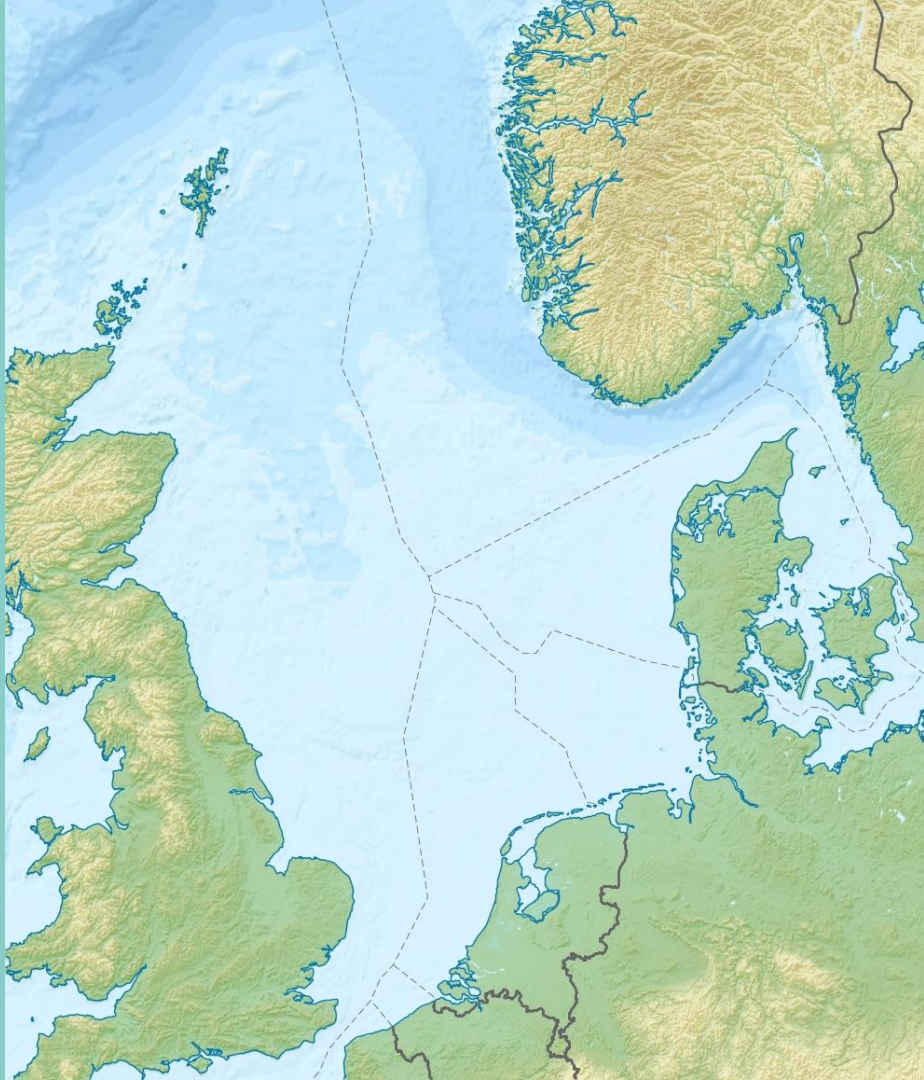
Warming faster than the global average - twice as fast as surrounding seas.

Particularly Southern North Sea

Marked changes in North Sea fish distributions have been attributed to climate change

Two-thirds of North Sea fishes have shifted mean latitude or depth.

Fishes with a northern boundary in the North Sea have shifted northwards and southern boundary species have retracted northwards



**What does this mean for  
recreational fishing?**

Cod





# Seabass



# Mackerel

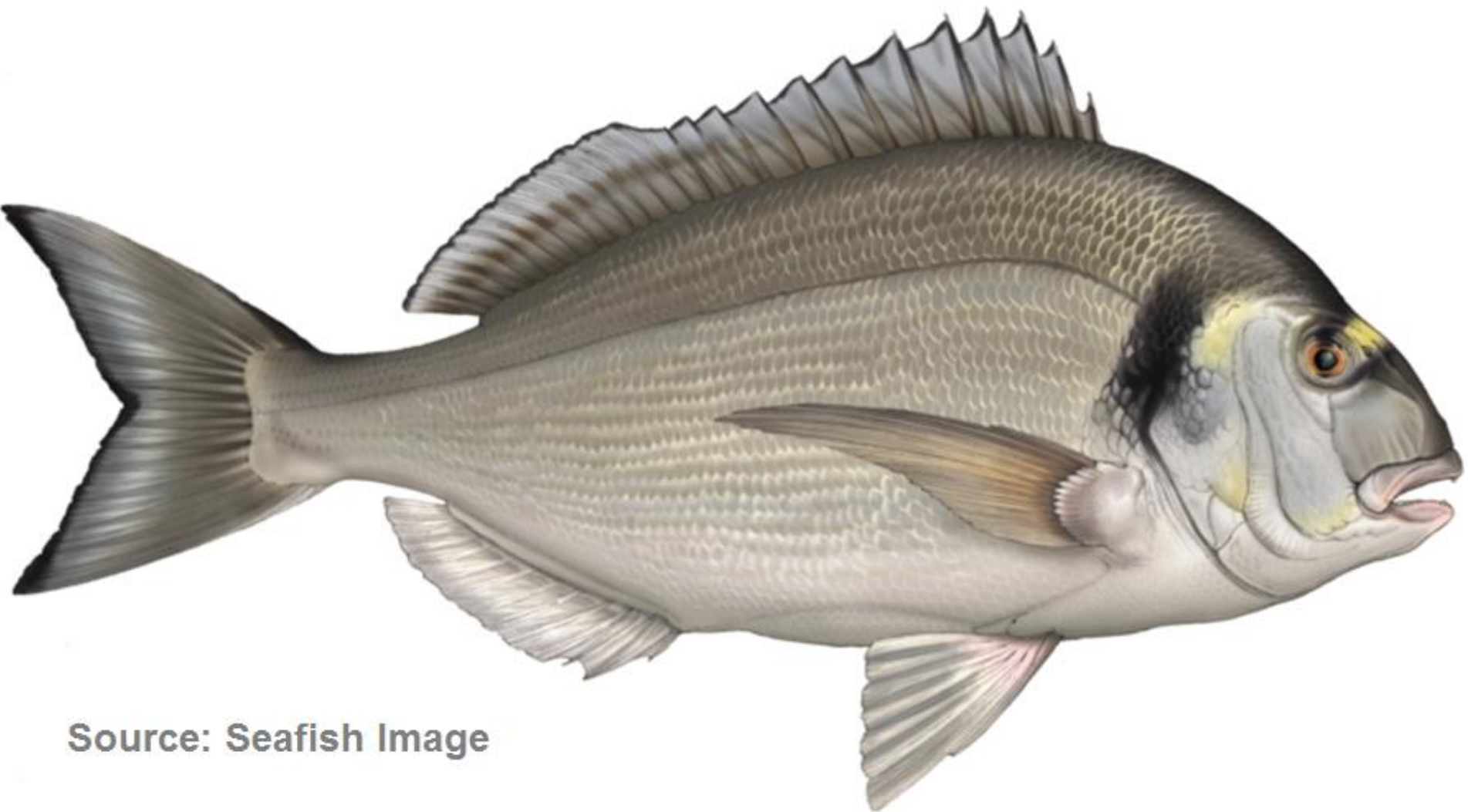


# Bluefin tuna



Copyright: David Muirhead

**What Next?**



Source: Seafish Image







# Conclusions

Climate change is already having a real impact on recreational fisheries in the North Sea.

These changes will have a significant impact on the jobs and businesses that are reliant on servicing this multi-billion Euro industry.

More research is needed into the impacts and opportunities of climate change on recreational fisheries in order to mitigate its impact and adapt to changes that cannot be prevented.

Funding from the EU must be made available to support this research.