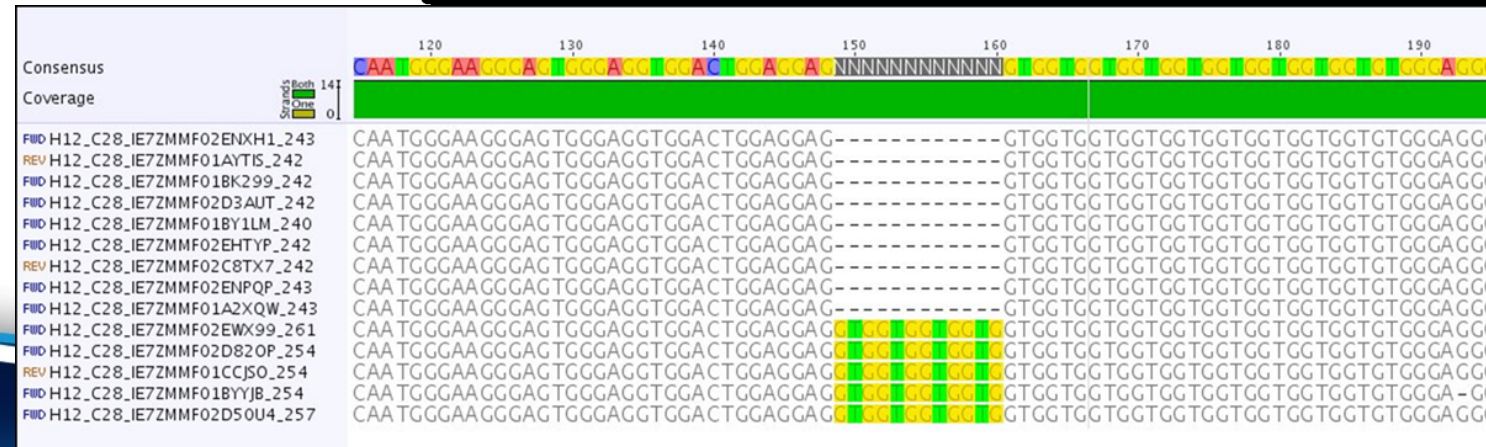
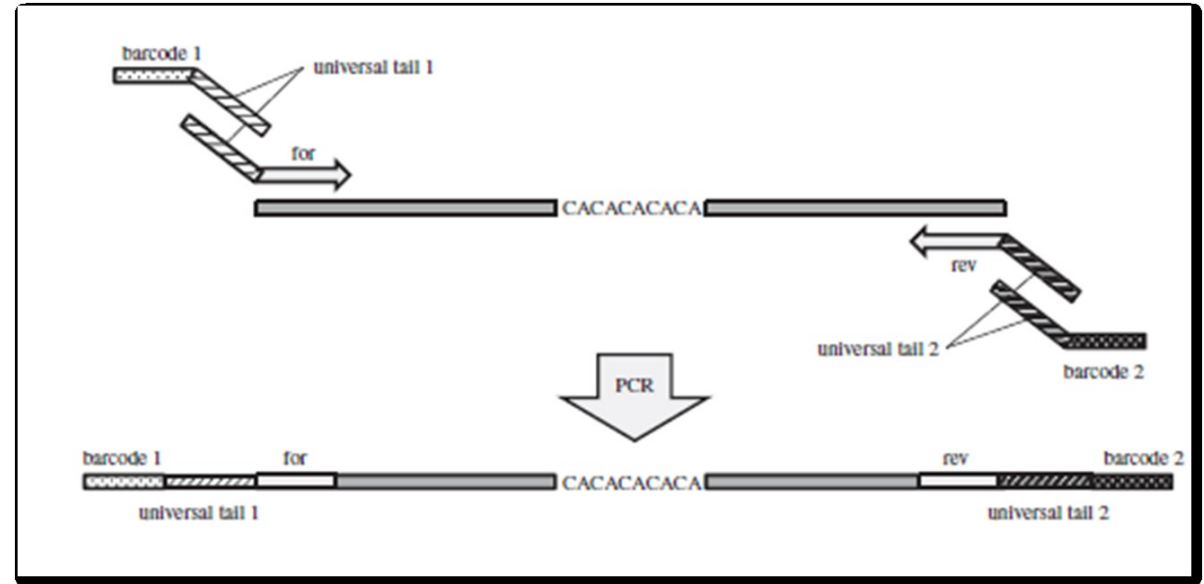




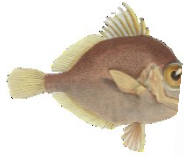
Next Gen Pop Gen – Genotyping by Sequencing





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Boarf

- No
- 85
- 96

Research



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<http://dx.doi.org/10.1098/rsos.160651>

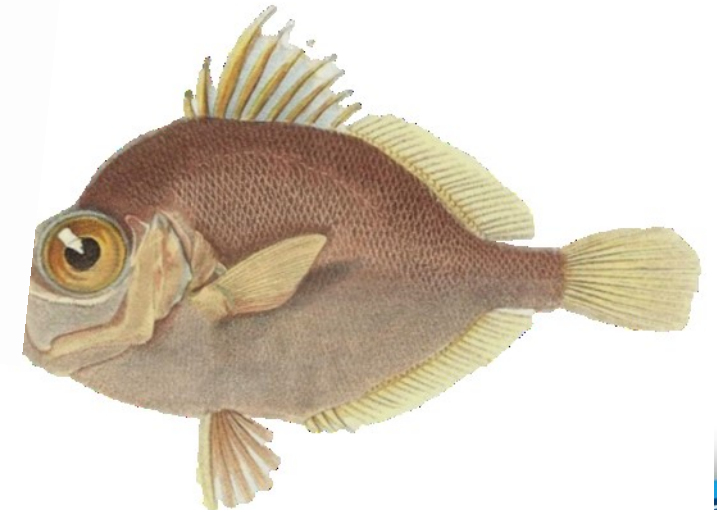
Received: 30 August 2016

Next Gen Pop Gen: implementing a high-throughput approach to population genetics in boarfish (*Capros aper*)

Edward D. Farrell, Jeanette E. L. Carlsson and
Jens Carlsson

Area 52 Research Group, School of Biology and Environmental Science/Earth Institute,
University College Dublin, Belfield, Dublin 4, Republic of Ireland

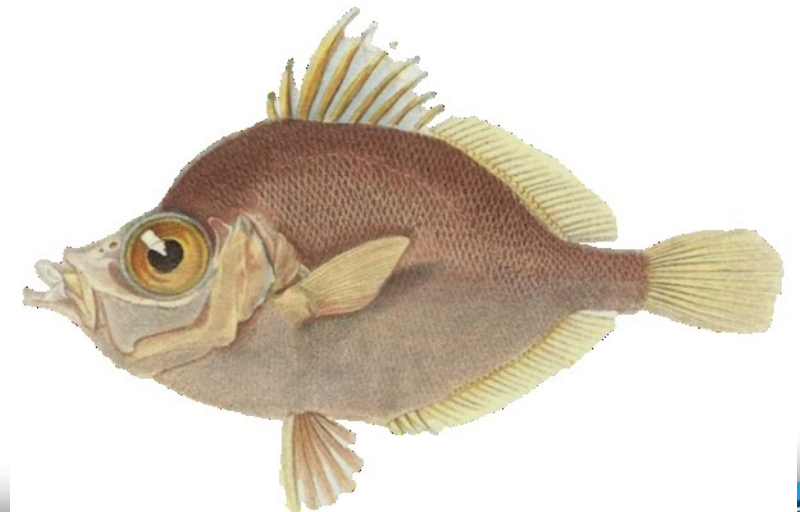
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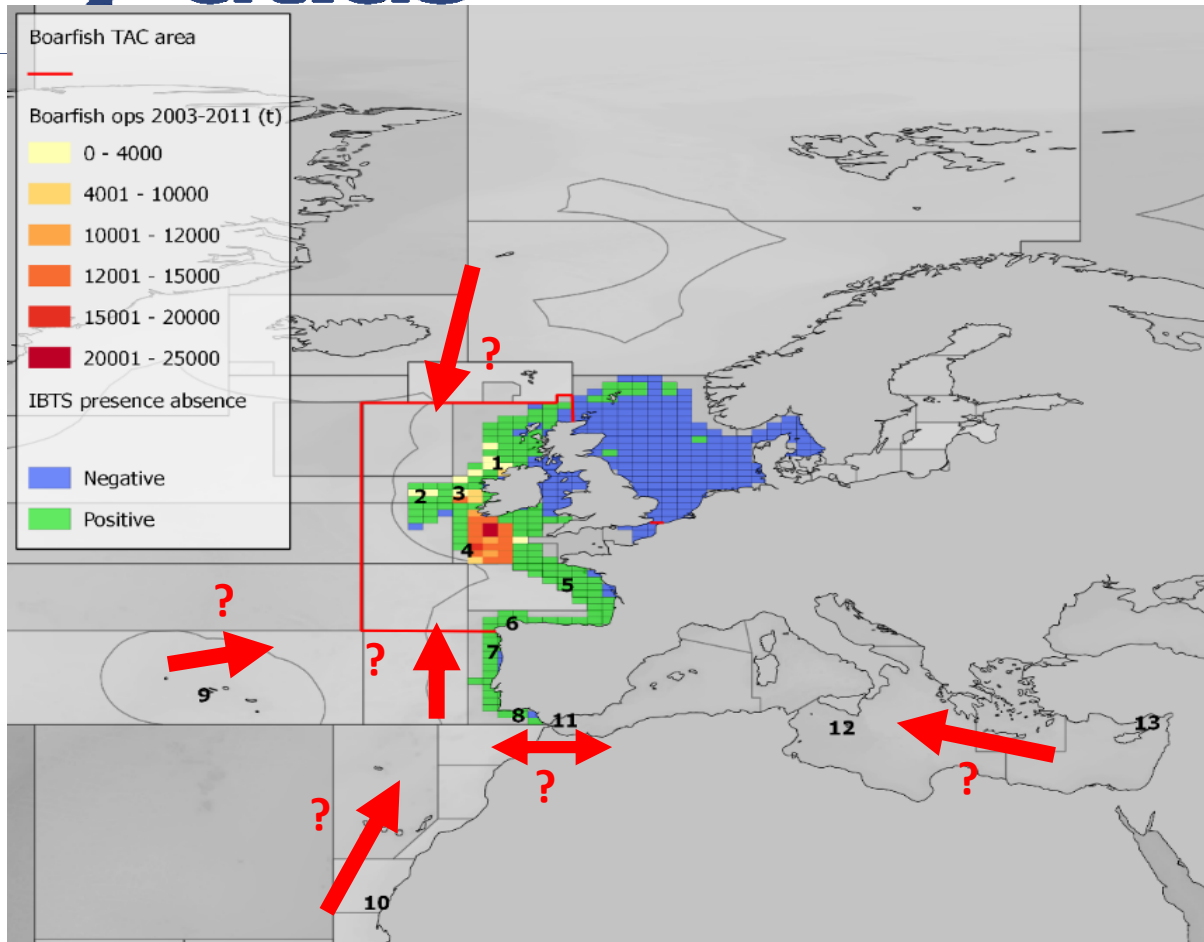




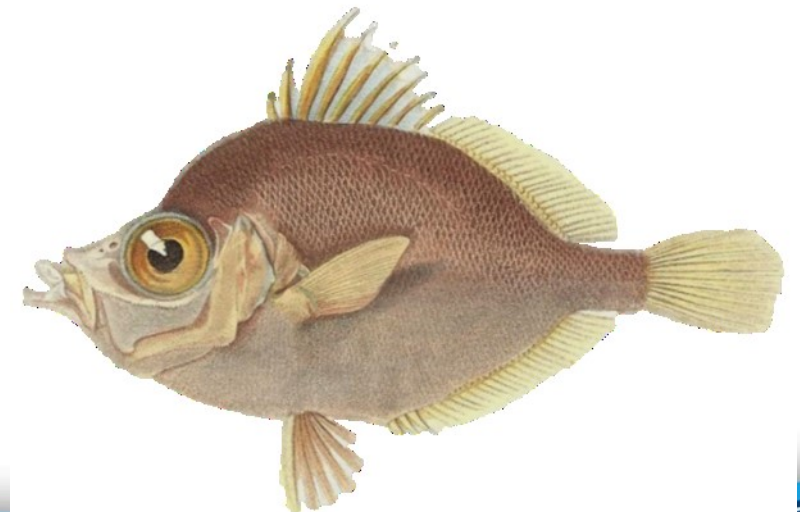
Boarfish example

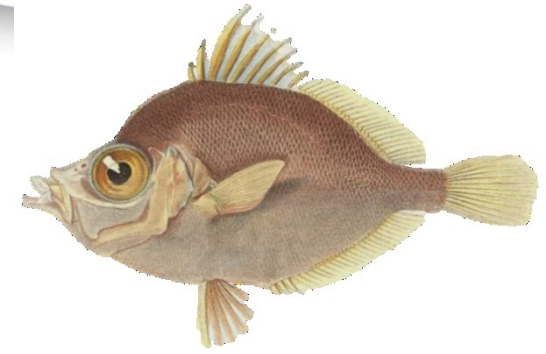
- No previous genetic information available
- 85 de novo microsatellites
- 960 individuals @ 85 microsatellites = 81,600 genotypes



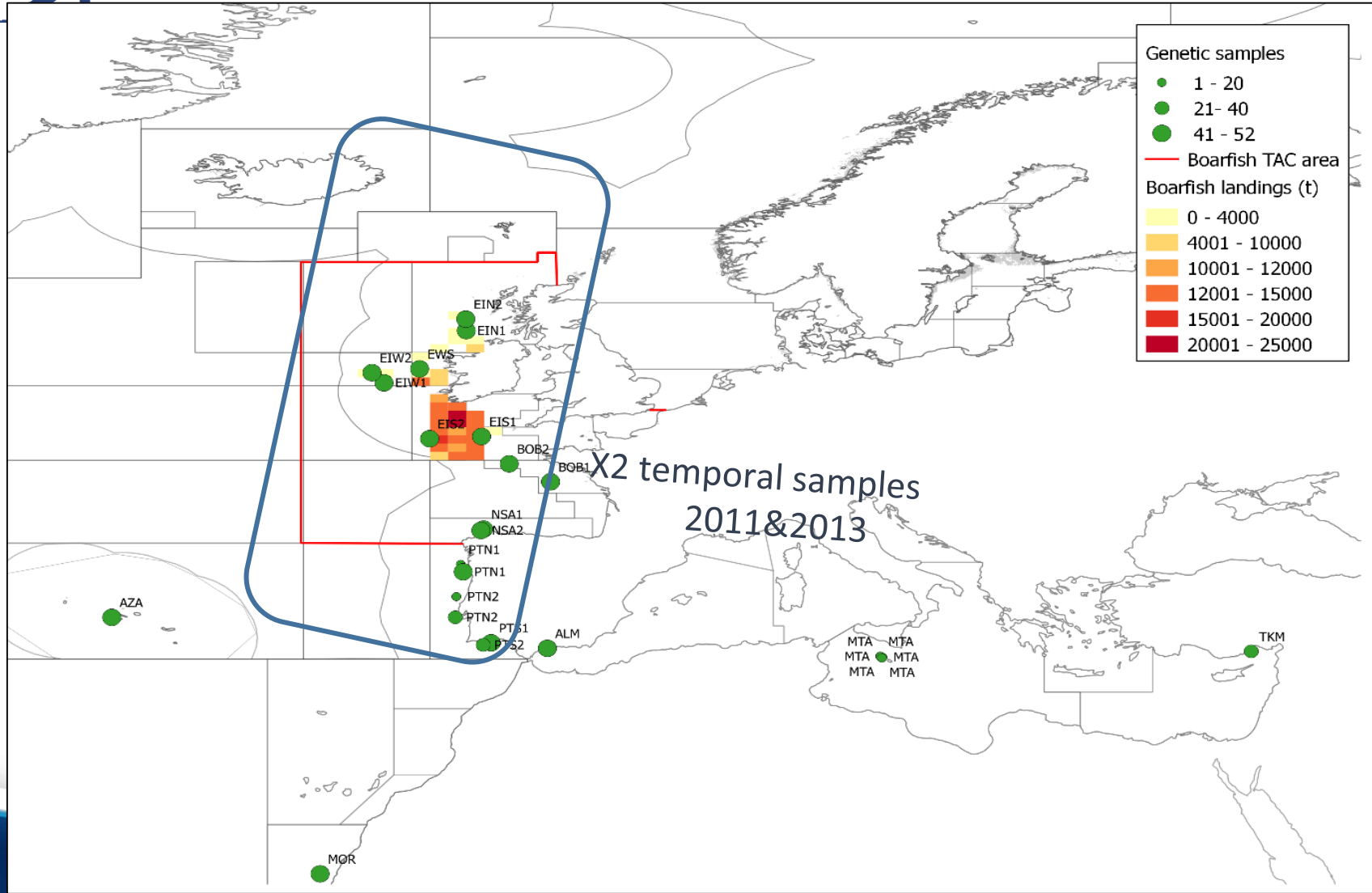


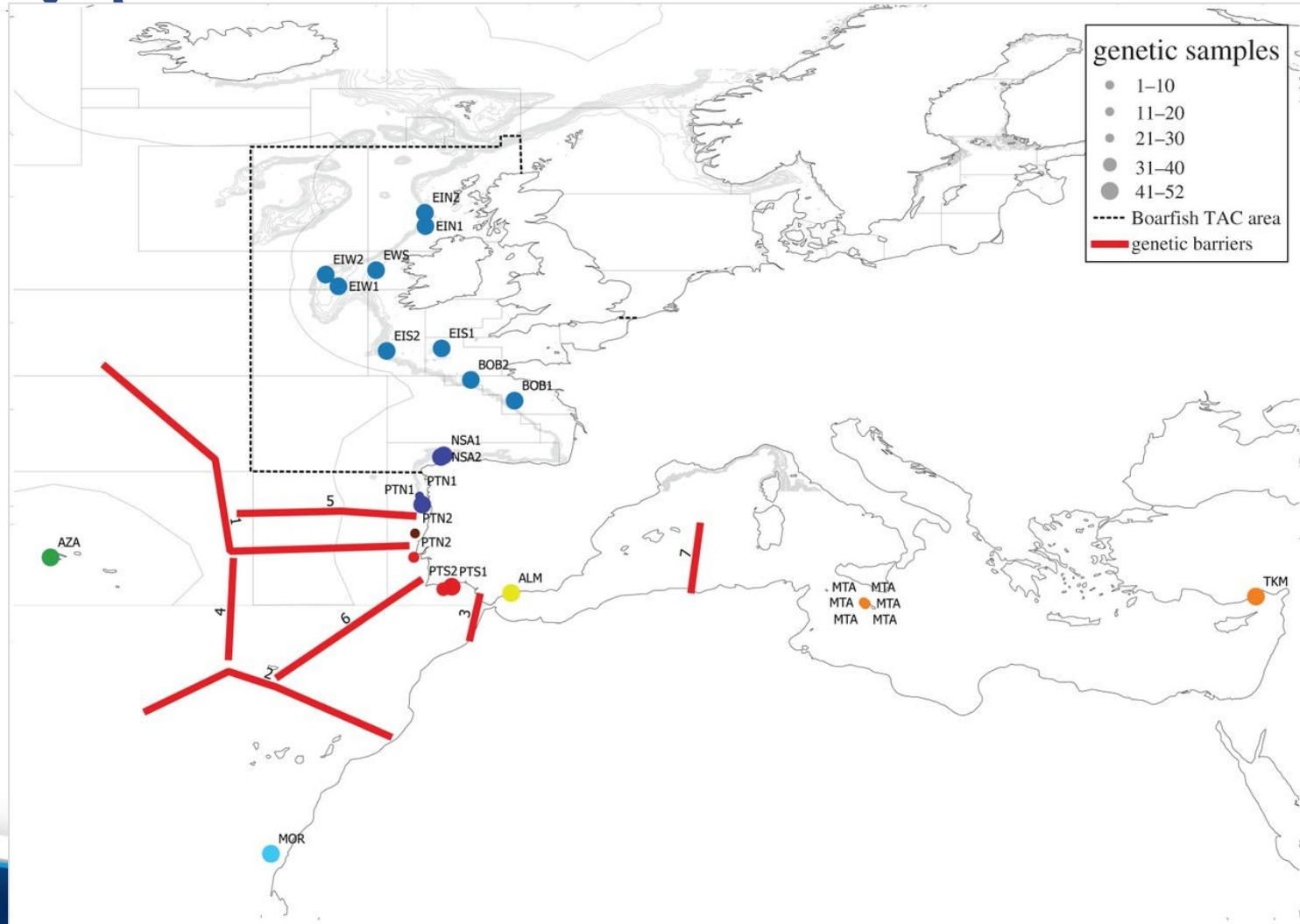
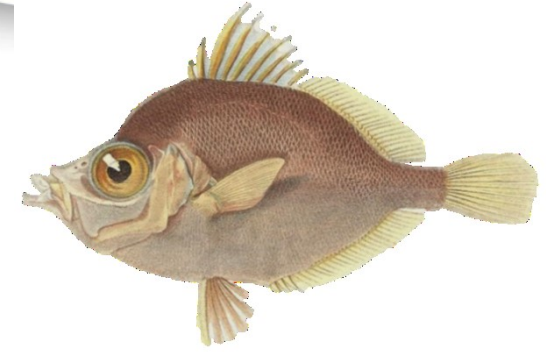
- Does assessment/management area align with the population structure?
- Is there population structure within the assessment/management area?
- Is there significant immigration into the assessment/management area?



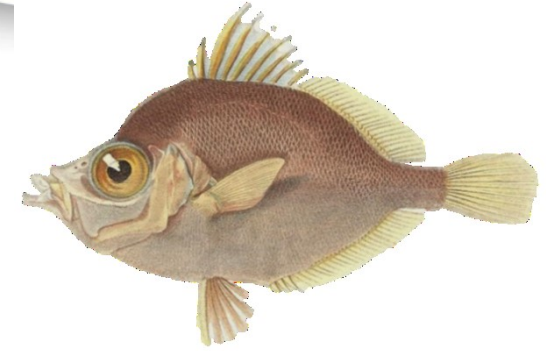


n=~50 per site. 20 samples comprising 960 individuals in total

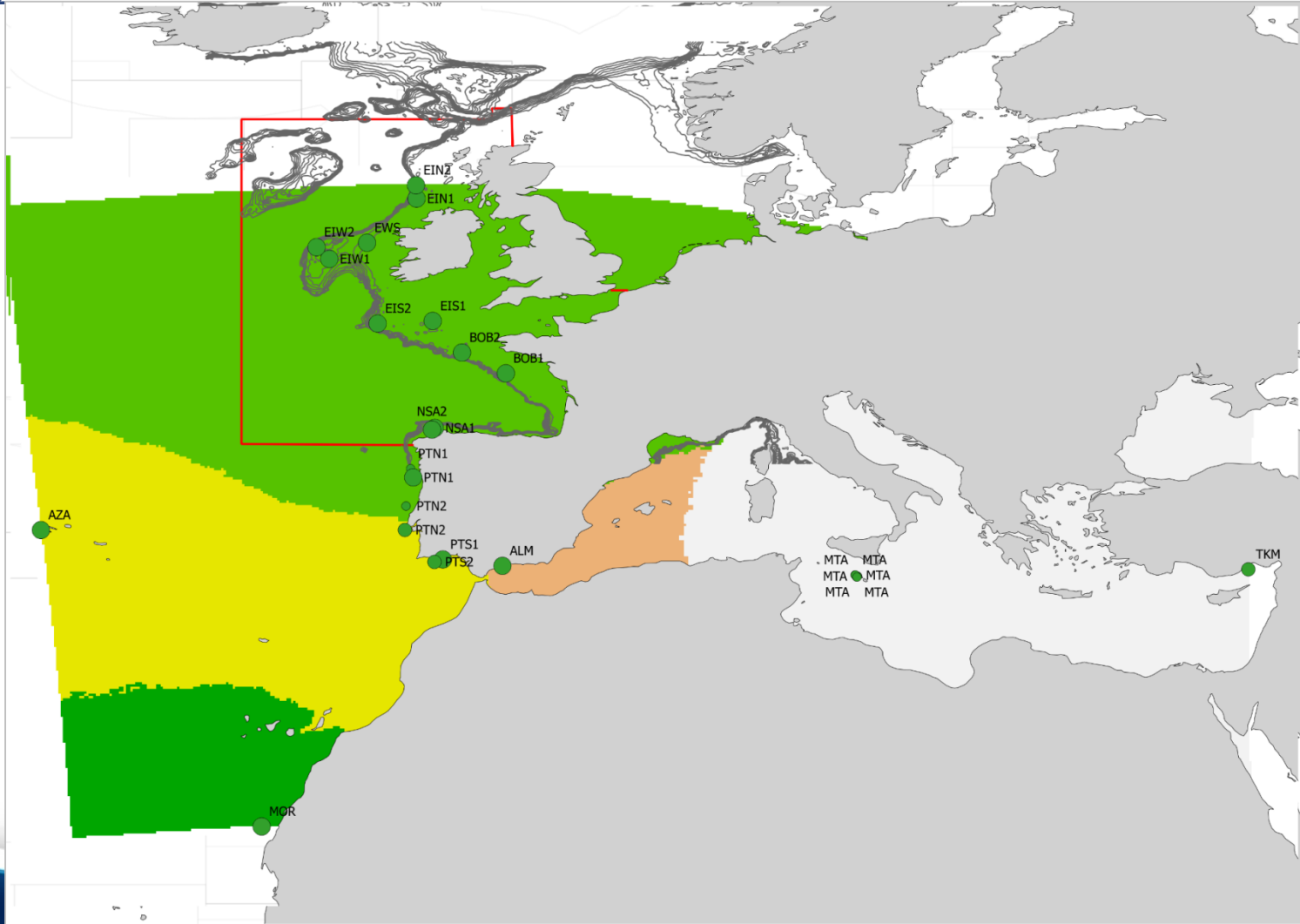


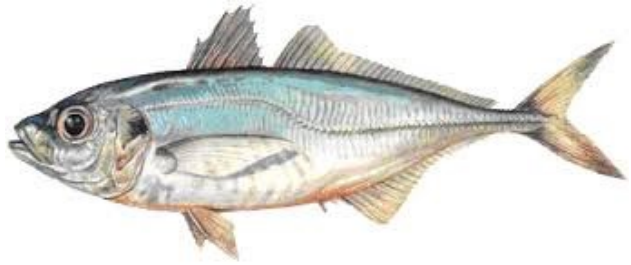


Barrier analysis



Geneland



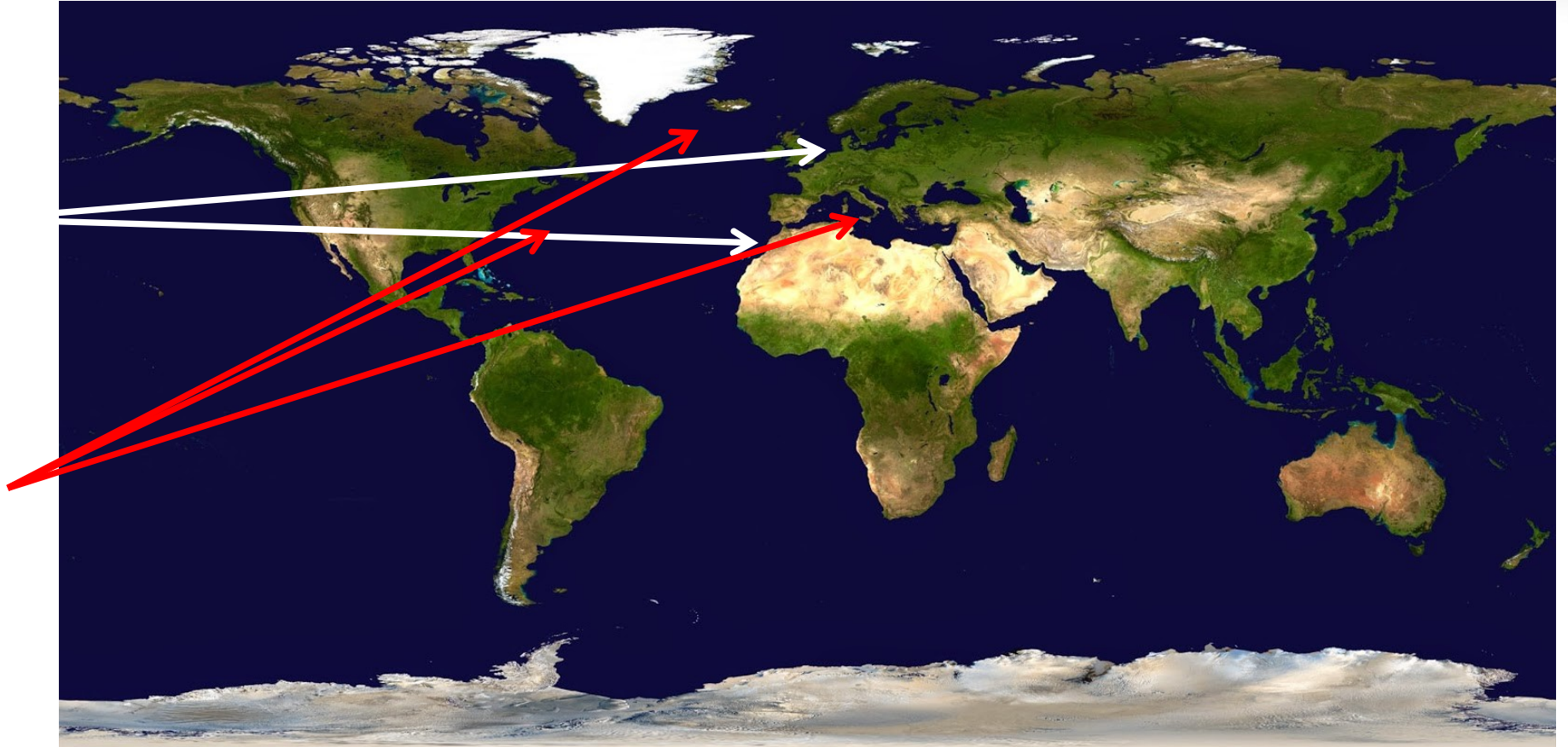


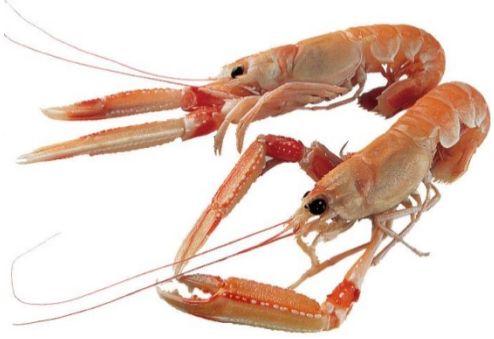
Trachurus trachurus

Horse mackerel

-Initial genetic info

-Need more samples!



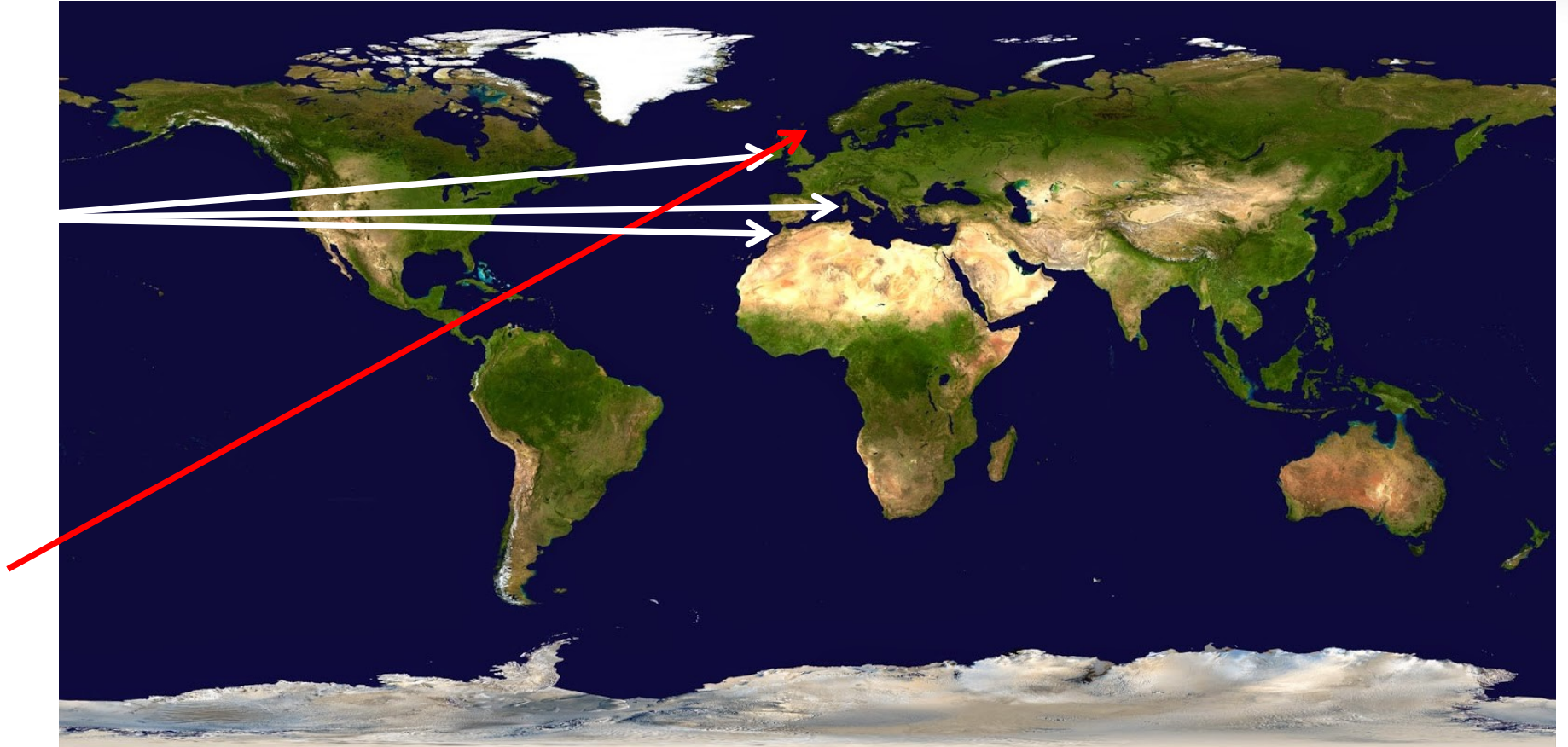


Nephrops norvegicus

Dublin Bay prawn

-Initial genetic info

-Need more samples!



Thank You!



Presenter details:

Jens Carlsson & Jeanette Carlsson

*Area52 Research Group <http://www.ucd.ie/area52/>
University College Dublin*

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