DEEPFISHMAN

Management and monitoring of deep-sea fisheries and stocks

EU funded project grant agreeement 227390

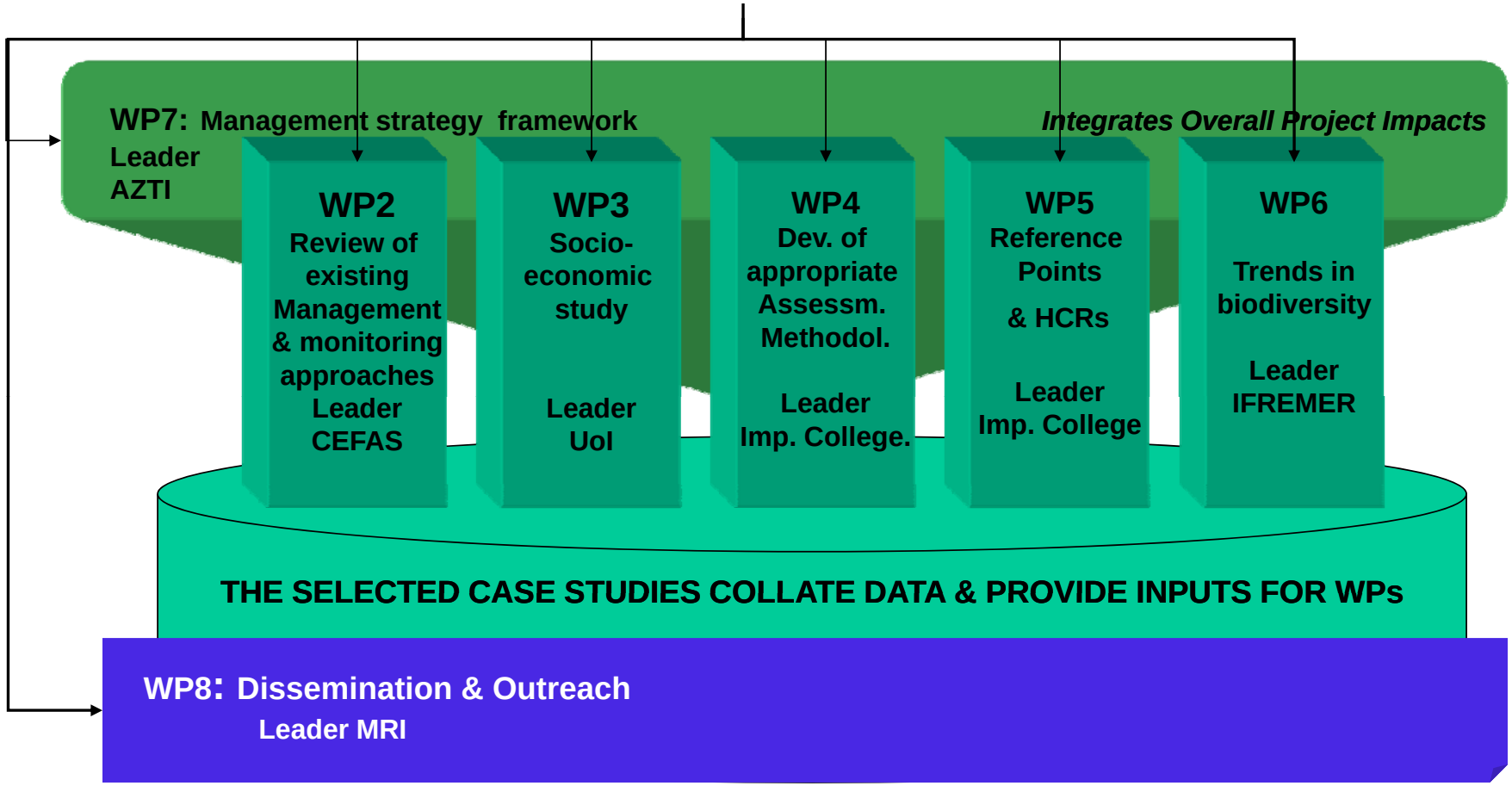
Pascal Lorance (project coord.)

Deepfishman

DEEPFISHMAN general aim

- Develop strategy options for the management of deepwater fisheries in the NE Atlantic
  - Appropriate/new
    - Stock assessment methods
    - Biological reference points (BRPs)
    - Harvest Control rules (HCRs)
    - Managements strategies
  - Account of
    - Stock sensitivity
    - Biodiversity/ecosystem and VMEs sustainability and conservation
    - Socio-economy
  - Specify additional monitoring data requirements
    - (e.g.) lack of scientific cruises, economics data missing in some fisheries, poor knowledge of high resolution spatial distribution of fishing effort

How the project is organised



CS 1	CS 2	CS3	CS4	SC5
Directed single species fisheries • Orange roughy (Namibia) •Orange roughy (west of Scotland and Ireland) •Blue ling (west of Scotland)	**Multi species fishery** Trawl fishery (west of the British Isles, 4 species)	**Artisanal fisheries** • Blackspot sea bream (Greece) • Blackspot sea bream (Gibraltar & Biscay) • Black scabbardfish (Portugal)	**Data rich** Beaked Redfish • Irminger Sea •Norwegian Sea & Barents Sea	**Data rich** Greenland halibut NAFO

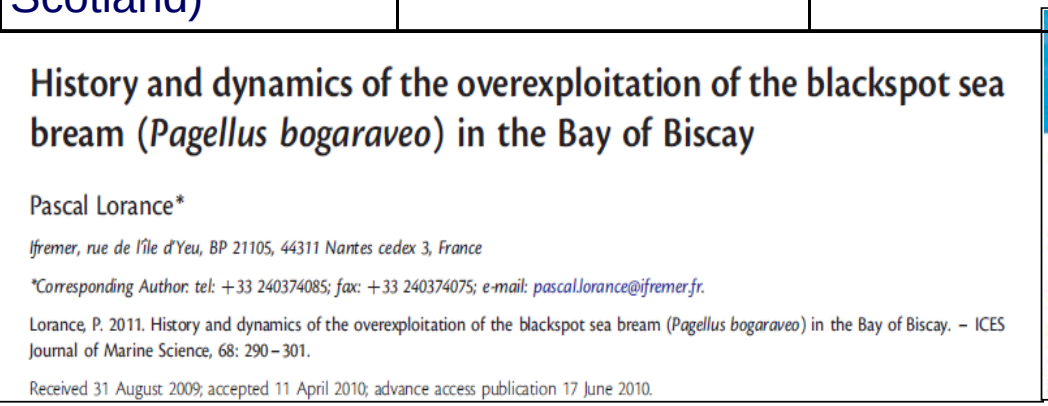
Review of fisheries, ecology, management, regulation
Socio-economic reviews
Data description and availability

Reviews in Fisheries Science
Publication details, including instructions for authors and subscription information:
http://www.tandfonline.com/loi/brfs20

Fisheries Assessment and Management: A Synthesis of Common Approaches with Special Reference to Deepwater and Data-Poor Stocks

C. T. T. Edwards [a], R. M. Hillary [b], P. Levontin [c], J. L. Blanchard [d] & K. Lorenzen [e]
[a] Division of Biology, Imperial College London, Silwood Park, Ascot, UK
[b] CSIRO Marine and Atmospheric Research, Wealth from Oceans National Research Flagship, Hobart, Tasmania, Australia
[c] Centre of Environmental Policy, Imperial College London, South Kensington, London, UK

CS 1	CS 2	CS3	CS4	SC5
Directed single species fisheries	**Multi species fishery**	**Artisanal fisheries**	**Data rich**	**Data rich**
• Orange roughy (Namibia) •Orange roughy (west of Scotland and Ireland) •Blue ling (west of Scotland)	Trawl fishery (west of the British Isles, 4 species)	• Blackspot sea bream (Greece) • Blackspot sea bream (Gibraltar & Biscay) • Black scabbardfish (Portugal)	Beaked Redfish • Irminger Sea • Norwegian Sea & Barents Sea	Greenland halibut NAFO



History and dynamics of the overexploitation of the blackspot sea bream (*Pagellus bogaraveo*) in the Bay of Biscay

Pascal Lorance*

Ifremer, rue de l'Île d'Yeu, BP 21105, 44311 Nantes cedex 3, France

**Corresponding Author: tel: +33 240374085; fax: +33 240374075; e-mail: pascal.lorance@ifremer.fr.*

Lorance, P. 2011. History and dynamics of the overexploitation of the blackspot sea bream (*Pagellus bogaraveo*) in the Bay of Biscay. – ICES Journal of Marine Science, 68: 290–301.

Received 31 August 2009; accepted 11 April 2010; advance access publication 17 June 2010.

ICES Journal of Marine Science

ICES CIEM

ICES Journal of Marine Science (2012), 69(4), 547–552. doi:10.1093/icesjms/fsa014

Short communication

Historical variations in the year-class strength of beaked redfish (*Sebastes mentella*) in the Barents Sea

B. Planque[1]*, E. Johannesen[2], K. V. Drevetnyak[3], and K. H. Nedreaas[2]

CS 1	CS 2	CS3	CS4	SC5
Directed single species fisheries	**Multi species fishery**	**Artisanal fisheries**	**Data rich**	**Data rich**
• Orange roughy (Namibia) •Orange roughy (west of Scotland and Ireland) •Blue ling (west of Scotland)	Trawl fishery (west of the British Isles, 4 species)	• Blackspot sea bream (Greece) • Blackspot sea bream (Gibraltar & Biscay) • Black scabbardfish (Portugal)	Beaked Redfish • Irminger Sea •Norwegian Sea & Barents Sea	Greenland halibut NAFO

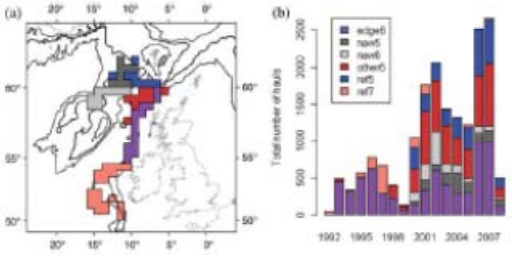
Socio-economic modelling

CS 1	CS 2	CS3	CS4	SC5
Directed single species fisheries	**Multi species fishery**	**Artisanal fisheries**	**Data rich**	**Data rich**
• Orange roughy (Namibia) •Orange roughy (west of Scotland and Ireland) •Blue ling (west of Scotland)	Trawl fishery (west of the British Isles, 4 species)	• Blackspot sea bream (Greece) • Blackspot sea bream (Gibraltar & Biscay) • Black scabbardfish (Portugal)	Beaked Redfish • Irminger Sea • Norwegian Sea & Barents Sea	Greenland halibut NAFO

- Standardised abundance indices
- New methods for stock assessment (MYCC, PSA, Bayesian state space model)
- Simulation tests of assessment methods

Standardizing blue ling landings per unit effort from industry haul-by-haul data using generalized additive models

Pascal Lorance, Lionel Pawlowski and Verena M. Trenkel



CS 1	CS 2	CS3	CS4	SC5
Directed single species fisheries	**Multi species fishery**	**Artisanal fisheries**	**Data rich**	**Data rich**
• Orange roughy (Namibia)	Trawl fishery (west of the British Isles, 4 species)	• Blackspot sea bream (Greece)	Beaked Redfish	Greenland halibut
•Orange roughy (west of Scotland and Ireland)		• Blackspot sea bream (Gibraltar & Biscay)	• Irminger Sea	NAFO
•Blue ling (west of Scotland)		• Black scabbardfish (Portugal)	•Norwegian Sea & Barents Sea	

Fish communities analyses, patterns of diversity, temporal changes
Size-based multi-species modelling

CS 1	CS 2	CS3	CS4	SC5
Directed single species fisheries	**Multi species fishery**	**Artisanal fisheries**	**Data rich**	**Data rich**
• Orange roughy (Namibia) •Orange roughy (west of Scotland and Ireland) •Blue ling (west of Scotland)	Trawl fishery (west of the British Isles, 4 species)	• Blackspot sea bream (Greece) • Blackspot sea bream (Gibraltar & Biscay) • Black scabbardfish (Portugal)	Beaked Redfish • Irminger Sea •Norwegian Sea & Barents Sea	Greenland halibut NAFO

-Management strategy evaluation (MSE)
- mono-species
- multi-species
- qualitative

Stakeholder process

- Workshop in Brussels 29-30 June 2009
- Workshop in Lisbon, 4 Dec. 2009
- Workshop in Lisbon 4 July 2011
- Questionnaire
- Final workshop 31 August 2012, Galway


Deepfishman

Our three-year project kicked off in May 2009. This is our first Newsletter. It presents our aims, our work plan, our research team, relevant policy context and some of our work so far.

DEEPFISHMAN - Management and Monitoring of deep-sea Fisheries and Stocks

A research project funded by the European Union FP7

Newsletter 1 - March 2010

The EU project DEEPFISHMAN will develop a short- and long-term monitoring and management framework for deepwater fisheries in the NE Atlantic. This work will be developed by examining a range of case studies selected to reflect the diverse characteristics of the different types of deepwater fishery. The project outputs will aim to provide robust guidelines for deepwater fisheries management suitable for adoption within the Common Fishery policy. Contribution from stakeholders is essential for integration of stakeholder views in the project.

The project is organised as follows:

WIKI

Deliverable, reviews, reports, papers, posters

http://deepfishman.hafro.is/ section documents