Theme session F

Small-scale fisheries under data limited scenarios

Conveners: Cristina Pita (Portugal), José Pascual (Spain),

and Sebastian Villasante (Spain)

Thursday 24 September, 10:30-18:30, Sankt Hans Torv

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10:30	Opening and introduction
	Appointment of rapporteur
	Presentation of papers
10.25	CM codo: E:14 Oral

10:35 CM code: F:14 Oral

Title: How to facilitate data collection in small-scale fisheries? The case of La Restinga, El

Hierro (Canary Islands, Spain)

Authors: José Pascual-Fernández and Carmelo Dorta-Morales

Keywords: small-scale fisheries, data collection, governance, software, small-scale fishing unit

strategies

10:50 CM code: F:03 Oral

Title: Coastal community CPUE standardization in the Galician small-scale fishery

(southeastern Atlantic shelf) from 1999 to 2013 using on board observer **Authors:** Jaime Otero, Alexandre Alonso-Fernández, Rafael Bañón Díaz, José Manuel Campelos Álvarez, and Fernando Quintero Fernández

 $\textbf{Keywords:} \ finfishes, invertebrates, small-scale \ fisheries, \ CPUE \ standardization, \ GLMs, \ model$

selection, NE Atlantic

11:05 CM code: F:04 Oral

Title: Monitoring fishing effort of a data-limited artisanal fishery. The case of common octopus small-scale fleet operating in the Galician coast (southeastern Atlantic shelf)

Authors: Rafael Bañón, Jaime Otero, Alexandre Alonso-Fernández, José Manuel Campelos Álvarez, and Fernando Quintero Fernández

Keywords: fishing effort, small-scale fisheries, biomass, Octopus vulgaris, NE Atlantic

11:20 CM code: F:05 Oral

Title: Development of a probability-based sampling design for landings of Scottish shellfish

Authors: Tanja Miethe, Alastair Pout, and Liz Clarke

Keywords: brown crab, crustacean, Nephrops, port, probability

11:35 CM code: F:09 Oral

Title: Diversity and efficiency indices of small-scale fisheries in the Western Mediterranean (Minorca's Channel, Balearic Islands)

Authors: Sandra Mallol and Raquel Goñi

Keywords: small-scale fisheries, métiers, diversity, efficiency, Western Mediterranean

11:50 CM code: F:11 Oral

Title: Analysis of the small-scale fleet's coverage under different biological sampling

strategies: from the DCR stock-based sampling to the concurrent DCF métier-based sampling

in the Northern Spanish coastal gillnets fleet

Authors: Jose Rodriguez Gutierrez, Eva Velasco, and Jose Castro Pampillon **Keywords:** data collection, small-scale fisheries, concurrent sampling

12:05 CM code: F:10 Oral

Title: Assessment of small-scale data-limited Arctic charr fisheries using productivity-susceptibility, and landscape models coupled with local community monitoring

Authors: Ross Tallman, Marie-Julie Roux, and Zoya Martin

Keywords: data-limited, Arctic charr, productivity

12:20 CM code: F:15 Oral

Title: From species to function: Using the tool of biological traits analysis to detect the effects

of small-scale fisheries on the functioning of fish assemblages

Authors: Martha Koutsidi and Evangelos Tzanatos

Keywords: biological traits analysis, ecological functions, small-scale fisheries, coastal

ecosystems

12:35 CM code: F:13 Oral

Title: The small-scale trap fishery for Plesionika narval (Decapoda, Pandalidae) in the eastern

Mediterranean Sea: bio-economics and challenges for management **Authors**: Paris Vasilakopoulos, Christos D. Maravelias, Kostas Kapiris, Aikaterini Anastasopoulou, Chris Smith, and Stefanos Kalogirou

Keywords: CPUE, dodecanese, management plan, socio-economics, sustainability

12:50 CM code: F:12 Oral

Title: BATEGIN: A user friendly GIS tool for the spatial management of the Basque small-scale

fleet

Authors: Estanis Mugerza, Arantza Murillas-Maza, Iñaki Quincoces, Estibaliz Diaz, and

Luis Arregi

Keywords: small-scale fisheries coastal impact, geospatial data collection, management tools

conservation measures, fleet interactions

13:00 Lunch break

15:00 CM code: F:02 Oral

Title: Short- and long-term impacts of a large marine protected area on artisanal fisheries in

the Northwestern Mediterranean

Authors: Sandra Mallol and Raquel Goñi

Keywords: artisanal fisheries, marine protected area, fishing effort, spatial distribution,

western Mediterranean

15:15 CM code: F:07 Oral

Title: Management tools for small-scale fisheries in Europe: a review

Authors: C. Pita, E. Selig, K. Kleisner, G. Macho, J. Santiago, P. Pita, S. Rivero Rodriguez,

J. Rodriguez, J. Isusi de Rivero, P. Lopes, and S. Villasante

Keywords: artisanal fisheries, traditional fisheries, fisheries management measures, tool,

Europe, governance

15:30 CM code: F:21 Oral

Title: Integrated decision support tools to inform small-scale fisheries management

Authors: Michaela Clemence, Erica Cunningham, Rod Fujita, Kendra Karr, Catherine Longo, Jake Kritzer, Jennifer Macy Humberstone, Gavin McDonald, Kaia Joye Moyer, Janelle Mueller, Rodrigo Oyanedel, Sarah Poon, Salvador Rodriguez van Dyck, Keith Shattenkirk,

Katherine Siegel, and Amy Tourgee

Keywords: data-limited fisheries assessment, small-scale fisheries management tools, adaptive fisheries management, marine reserves, user rights, Fish Forever, tradeoff analysis, community-based management

15:45 CM code: F:08 Oral

Title: Sustainability of small-scale fisheries: How can we estimate it?

Authors: Rosana Ourens and Larry Crowder

Keywords: small-scale fisheries, indicators, sustainability, fisheries assessment, review

16:00 CM code: F:22 Oral

Title: Assessing SSF social and economic performance in an MPA with limited data

Author: Leyre Goti

Keywords: SSF, data poor, MPA, social and economic impact

16:15 CM code: F:20 Oral

Title: Integrating fishers knowledge in data-limited fisheries assessment: a case study using productivity-susceptibility analysis (PSA) of small-scale Arctic charr fisheries in Canada's Arctic

Authors: Marie-Julie Roux, Ross F. Tallman, and Zoya A. Martin

Keywords: data-poor, small-scale fisheries, PSA assessment, Arctic, fishers knowledge

16:30 Coffee break

17:00 CM code: F:31 Oral

Title: Clam fisheries as a poverty trap

Authors: L. M. Rocha, P. F. M. Lopes, A. Begossi, J. J. Roper, and S. Villasante

Keywords: co-management, Anomalocardia brasiliana, social-ecological sustainability, small-

scale fisheries

17:15 CM code: F:18 Oral

Title: Untangling the tentacles: fisher perceptions on the octopus fishery management in the

Algarve

Authors: M.O. Rangel, C. Pita, M.M. Oliveira, M.H. Guimarães, C. Sonderblohm, A Antunes, A.

Barreto, P. Monteiro, F. Oliveira, L. Pereira, J.M.S Gonçalves and K. Erzini.

Keywords: octopus, small-scale fishery, fisher associations, management measures,

management, Portugal, Algarve

17:30 CM code: F:19 Oral

Title: Enhance our understanding of small-scale fisheries with the geolocation of fishing

vessels: the case of the French kelp fishery off Brittany

Authors: Mathieu Woillez, Martial Laurans, Emilie Leblond, and Patrick Berthou

Keywords: small-scale fishery, geolocalisation, fishing vessels, Hidden Markov Models

17:45 CM code: F:16 Poster

Title: The landing obligation in European small-scale fisheries

Authors: Sebastian Villasante, Cesar Guimeráns, Joao Rodriguez, Manel Antelo,

Susana Rivero Rodríguez, Jose Alberto de Santiago, Cristina Pita, Graham Pierce, Lee Hastie,

Jose Maria Da Rocha, Marta Coll, Dorleta Garcia, and Rashid Sumaila

Keywords: discards, Common Fisheries Policy, landing obligation, small-scale fisheries, Europe

17:47 CM code: F:06 Poster

Title: Small-scale fisheries targeting cephalopods in Europe: socioeconomic importance and

management

Authors: C. Pita, A. Adamidou, P. Belcari, J. M. Bellido, D. Cuccu, M. García Tasende,

A. Gonzalez, A. Guerra, E. Lefkaditou, S. Maguire, J. Pereira, J. P. Robin, B. Roel, D. Turnbull,

S. Villasante, and G. J. Pierce

Keywords: cuttlefish, octopus, squid, governance, France, Greece, Italy, Portugal, Spain,

United Kingdom

17:49 CM code: F:01 Poster

Title: Coastal fisheries in Europe are not what they were: ecological, social and economic

changes

Authors: Josep Lloret and Karim Erzini

Keywords: artisanal fisheries, biological impacts, socioecomic challenges

17:51 CM code: F:24 Poster

Title: Integrating data and fisheries management in small-scale fisheries in the Shetland Isles

Authors: Beth Mouat and Amos Barkai

Keywords: inshore fisheries, data led fisheries management, spatial data, Olrac Dynamic Data

Manager, marine spatial planning

17:53 CM code: F:25 Poster

Title: Towards an ecosystem based fisheries management in Norway, including small-scale and data-limited fisheries – practical tools for keeping track of relevant issues and prioritizing

management efforts

Authors: Peter Gullestad, Anne Marie Abotnes, Gunnstein Bakke, Mette Skern-Mauritzen,

Kjell Nedreaas, and Guldborg Søvik

Keywords: small-scale, data-limited, practical ecosystem based management tool, indicators

17:55 CM code: F:26 Poster

Title: Women's invisible work in small-scale fisheries

Authors: Yesmina Mascarell Rocher and Paloma Herrera Racionero

Keywords: gender, feminism, co-governance, inequity, sexual division of labor

17:57 CM code: F:27 Poster

Title: Life history traits determine the shape and response to environmental conditions of a

coastal community targeted by a small-scale fishery

Authors: Alexandre Alonso-Fernández, Jaime Otero, Rafael Bañón Díaz,

José Manuel Campelos Álvarez, and Fernando Quintero Fernández

Keywords: finfishes, small-scale fisheries, life traits, temperature, NE Atlantic

17:59 CM code: F:28 Poster

Title: Eliciting expert judgments to inform the depletion prior in data-poor stock assessment

Authors: Anna Chrysafi, Jason Cope, and Andre Punt

Keywords: data-poor, expert judgment, stock assessment

CM code: F:29 Poster

Withdrawn

18:01 CM code: F:30 Poster

Title: Mixed demersal/deep-water hook and line small-scale fishery from the Azores (ICES

Xa2)

Authors: Mário Rui Pinho, Ana Novoa-Pabon, Priscila Silva, Helena Krug, and João Gil Pereira

Keywords: small-scale, hook and line, deep-water, Azores, seamounts, ICES Xa2

18:03 CM code: F:32 Poster

Title: A spatial multivariate approach to understand what controls fish assemblages in small-

scale fisheries

Authors: M. G. Pennino, M. J. F. Thomé-Souza, A. R. Carvalho, P. F. M. Lopes, L. C. S. Fontes,

and C. Parente

Keywords: fish assemblage, fishing effort, multivariate analysis, multi-species

18:05 CM code: F:33 Poster

Title: Temporal variability of landings composition in the Conil artisanal fishery (SW Spain):

octopus collapse, subsidies and climate

Authors: Rafael González-Quirós, Alfonso J. Silva-García, Beatriz Lado, Laura Prieto,

José Luis Muñoz, Nicolás Fernández, and Javier Ruiz

Keywords: small-scale fisheries, octopus, landings, temporal patterns, subsidies, climate

18:07 CM code: F:34 Poster

Title: Challenges in minimizing illegal, unreported and unregulated fishing (IUU) of small-scale

fisheries sector in Thailand

Authors: Wichin Suebpala, Thamasak Yeemin, Makamas Sutthacheep, and

Ratana Chuenpagdee

Keywords: IUU fishing, small-scale fisheries, Thailand

18:09 CM code: F:35 Poster

Title: The situation of small-scale fisheries management in Turkey: Evaluation of approaches

regulations and researches

Authors: Didem Gokturk and Tomris Deniz

Keywords: small-scale fisheries, management, Turkey

18:11 CM code: F:36 Poster

Title: MPA effects on the management of fish stocks could be questionable in some cases due

to their localized geographic scale: the Mediterranean Sea as an example **Authors:** Ninon Mavraki, Michalis Georgiadis, and Evangelos Tzanatos **Keywords:** marine protected areas, conservation, small-scale fisheries

18:13 CM code: F:37 Poster

Title: Using the dynamic dependency of sampling design on the hierarchical structure of fisheries heterogeneity to develop a roadmap for the optimization of small-scale fisheries

sampling schemes

Authors: Alexis Lazaris, Constantin Koutsikopoulos, and Evangelos Tzanatos **Keywords:** optimal sampling design, multi-stage sampling, small-scale fisheries

18:15 CM code: F:38 Poster

Title: Early assessment with management purposes of the multi-species, multi-gear and data-

poor complex fisheries

Authors: J.G. Ramírez, J. Lleonart, G. Puentes, and J. Salat

Keywords: gear competition, multi-species, management

18:17 CM code: F:39 Poster

Title: Bringing together the knowledge of small-scale fishers and the scientific knowledge for

length-based management purposes in data-limited fisheries

Authors: Luis Manjarres-Martinez, Jairo Altamar López, Luis Orlando Duarte, Lina Saavedra,

and Felix Cuello

Keywords: local ecological knowledge, data-limited fisheries, management, Colombian

Caribbean, simple indicators

18:19 CM code: F:40 Poster

Title: Colombian small-scale marine fishers' knowledge as a fundamental management tool in

data limited context

Authors: Lina M. Saavedra-Diaz, Andrew A. Rosenberg, and Robert Pomeroy

Keywords: fisher's knowledge, fishery management tool, small-scale fisheries

18:21 CM code: F:41 Poster

Title: Estimating uncertainty in data-limited stock assessments

Authors: Alexandros Kokkalis, Uffe Høgsbro Thygesen, Anders Nielsen, and

Ken Haste Andersen

Keywords: size-structure, single-species, data-limited, stock status

18:23 CM code: F:42 Poster

Title: The path-dependence and European fisheries management

Authors: Fernando Gonzalez Laxe, Manel Antelo, and Sebastian Villasante **Keywords:** path dependence, fisheries management, EU fisheries policy

18:25 CM code: F:43 Poster

Title: New practices to improve the conservation status of the benthic communities in small-

scale fisheries

Authors: David Díaz, Anabel Muñoz, Carlos Dominguez-Carrió, Jordi Grinyó, Stefano Ambroso,

Laura Oliver, Sandra Mallol, Victor Gutiérrez, Raquel Goñi, and Josep-Maria Gili **Keywords:** artisanal fishery, conservation, benthic communities, bycatch

18:30 End of session