

## Theme Session G

## Practical advice for implementing marine policy: combining ecosystem and societal indicators in stock and ecosystem assessments

Conveners: Gavin Fay (USA), Eva-Lotta Sundblad (Sweden), Scott Large (USA), and David Goldsborough (the Netherlands)

СМ		Oral Presentations
Code		
<u>G: 01</u>	Title:	Structuring Societal Information for the Marine Strategy Framework
<u>Oral</u>		Directive
	Authors:	Anders Grimvall, Eva-Lotta Sundblad, Lena Gipperth
	Keywords:	Marine Strategy Framework Directive, actors, behaviour,
		programmes of measures
<u>G: 02</u>	Title:	Social Indicators of Fishing Community Vulnerability and
<u>Oral</u>		Resilience: An Emergent Method for Fisheries Social Impact
		Assessment in the United States
	Authors:	Lisa L. Colburn and Michael Jepson
	Keywords:	social indicators, social vulnerability and fisheries social impact
		assessment
G: 03		Withdrawn
Oral		
<u>G: 04</u>	Title:	Social indicators of community-level vulnerability for the West
<u>Oral</u>		Coast
	Authors:	Norman, Karma; Miller, Stacey; Hoelting, Kristin; Kasperski,
		Stephen
	Keywords:	ecosystem management, California Current communities, social
		indicators
<u>G: 05</u>	Title:	Actor-oriented societal indicators of man-made eutrophication of
<u>Oral</u>		marine environments
	Authors:	Eva-Lotta Sundblad, Anders Grimvall and Lena Gipperth
	Keywords:	Societal-indicators, Actors, our, Marine Strategy Framework
		Directive
<u>G: 06</u>	Title:	Understanding artisanal fishery reality of Fonseca's Golf: socio-
<u>Oral</u>		economic indicators and technical advice for a basic management
	Authors:	Duarte Fernández-Vidal*, Ana Tubío, Diana Fernández-Márquez
		and Ramón Muiño
	Keywords:	social-economic indicators, participatory methods, artisanal
		fisheries, management, technical advice, LEK.



СМ		Oral Presentations
Code		
G: 07	Withdrawn	
Oral		
<u>G: 08</u>	Title:	Combining Indicators for Policy Implementation? Let Form Follow
<u>Oral</u>		Function
	Authors:	Jake Rice
	Keywords:	Ecosystem Indicators, Management objectives, risk management,
		integration
<u>G: 11</u>	Title:	Propagation of Uncertainties in Fisheries Science for Advice: the
<u>Oral</u>		case for Confidence Interval Harvest Control Rules (CI-HCRs)
	Authors:	Dorothy J. Dankel, Sondre Aanes, Jon Helge Vølstad
	Keywords:	stock assessment, harvest control rules, confidence intervals,
		uncertainty communication, hidden uncertainties, uknown knowns,
		science for policy advice, fisheries models, technoscience,
		technofeminism
<u>G: 16</u>	Title:	Using Performance Indicators to Evaluate U.S. Fisheries
<u>Oral</u>	A	A
	Authors:	Ayeisha Brinson, Eric Thunberg
	Keywords:	catch shares; performance indicators; economics
G: 17		Withdrawn
Oral		
<u>G: 18</u> Oral	Title:	Fuel use in fishing- an important indicator for sustainable fisheries
<u>Oral</u>	Authors:	Ziegler, F., Hornborg, S.
	Keywords:	LCA, fuel use, fisheries management, trawling
<u>G: 19</u>	Title:	Using Bayesian belief networks to disclose interactions between
<u>Oral</u>	The.	small-scale fisheries and offshore aquaculture developments off
<u>01111</u>		south-east Portugal
	Authors:	Jorge Ramos, Miguel Neves dos Santos, Miguel Caetano
	Keywords:	Bayesian belief networks (BBN), fishing communities, offshore
	1109 1101 100	aquaculture, small-scale fishermen, socioeconomic indicators
<u>G: 20</u>	Title:	Towards a Shark and Ray Management Plan for the North Sea : the
Oral		role of stakeholder participation
	Authors:	P.A. Walker, I. Kingma and M. van de Water
	Keywords:	sharks and rays; MSFD; stakeholder participation; management plan
G: 21	Title:	Providing advice in small-scale fisheries: The key role of the
Oral		"Barefoot Fisheries Advisors" in the Co-managed TURF system of
		Galicia
	Authors:	Gonzalo Macho, Inés Naya, Juan Freire, Sebastián Villasante and
		José Molares
	Keywords:	Barefoot Fisheries Advisors, Small-scale fisheries, Co-management,
		Scientific advice, Knowledge collectors and translators



СМ		Oral Presentations
Code		
<u>G: 22</u> <u>Oral</u>	Title:	Practical application of food web indicators in a fisheries context
	Authors:	Stuart Rogers, Jason Link & Mark Dickey-Collas
	Keywords:	food web; structure; function; resilience
<u>G: 23</u> <u>Oral</u>	Title:	Environmental impacts of a demersal freeze trawler on a fishing trip basis
	Authors:	Ziegler, F., Groen, E., Hornborg, S., Bokkers, E., Karlsen, K.M., de Boer, I.J.M.
	Keywords:	LCA, fuel use, fisheries management, trawling
<u>G: 24</u> <u>Oral</u>	Title:	Spatio-temporal biodiversity indicators for monitoring common objectives of the German Maritime Spatial Plan and the Marine Strategy Framework Directive
	Authors:	Seidel, Henrike and Stelzenmüller, Vanessa
	Keywords:	Ecological indicators, spatio-temporal analysis, biodiversity, functional traits analysis, demersal finfish, Marine spatial planning, MSFD, policy objectives
<u>G: 25</u>	Title:	The Large Fish Indicator in North Sea waters: Does it respond to the
<u>Oral</u>		recent decline in fishing?
	Authors:	Antonios Stamoulis, Hans Polet, Els Torreele and Adriaan D. Rijnsdorp
	Keywords:	indicators, Large Fish Indicator (LFI), MSFD, North Sea, EAFM,
	ite y words.	demersal fish community
G: 26	Withdrawn	
<u>G: 27</u>	Title:	How to be "good" Comparing methods to assess time series of
<u>Oral</u>		ecological indicators
	Authors:	Wolfgang Nikolaus Probst
	Keywords:	indicator assessment; ecological indicator, time series analysis, trend-based assessment, breakpoint analysis
G: 28	Title:	Incorporating ecological and societal indicators to identify
Oral		ecosystem reference points in response to multiple pressures
	Authors:	Scott I. Large, Gavin Fay, Kevin Friedland, Jason S. Link
	Keywords:	Ecosystem thresholds, EBFM, Gradient Forest, The IndiSeas Project
G: 29 Oral	Title:	Detection of unique multispecies demersal-fish communities in high-diversity systems and modeling the impact of environment on their stability
	Authors:	Joshua P Kilborn, David L Jones, Ernst B Peebles
	Keywords:	multispecies community dynamics, environmental drivers, minimum spanning tree, dissimilarity profile, groundfish trawl
<u>G: 30</u>	Title:	survey Ecosystem models for fisheries management: finding the sweet spot
<u>Oral</u>		Leosystem models for insteries management, intening the sweet spot
	Authors:	Jeremy S. Collie, Louis W. Botsford, Alan Hastings, Isaac C. Kaplan, John L. Largier, Patricia A. Livingston, Éva Plagányi, Kenneth A. Rose, Brian K.
	Keywords:	ecosystem-based management, fisheries, marine, model complexity, trade-off



СМ		Oral Presentations
Code		
<u>G: 31</u>	Title:	Use and advice on incorporating ecosystem indicators In the stock
<u>Oral</u>	11110.	assessment of North Atlantic swordfish
0101	Authors:	Michael J. Schirripa
	Keywords:	swordfish, stock assessment, ecosystem indicators, advice
	iteywords.	considerations
G: 32	Title:	Evaluating projection methodology for Northwest Atlantic
Oral		groundfish with consideration of biological assumptions and
		environmental influence
	Authors:	E.N. Brooks and C.M. Legault
	Keywords:	Retrospective forecast, projection methodology, projection time
	5	horizon, environmental driver
<u>G: 33</u>	Title:	A state-space age-structured assessment model that accommodates
<u>Oral</u>		environmental effects on demographic parameters and biological
		reference points
	Authors:	Timothy J. Miller and Saang-Yoon Hyun
	Keywords:	space models, stock assessment, environmental effects
G: 34	Title:	Moving Towards Multi Species Integrated management
Oral	Authors:	Rosa Mato Amboage and José-María Da-Rocha, Santiago Cerviño
	Keywords:	mixed fisheries, harvesting control rules, overfishing risk
G: 35	Title:	Simple As Necessary approach to the Baltic Sea holistic assessment
Oral		1 7 11
	Authors:	Oleg P. Savchuk and Maciej T. Tomczak
	Keywords:	Baltic Sea, fishery and eutrophication, modeling
G: 36	Title:	Incorporating species interactions in a statistical catch-at-age model
Oral		of the Georges Bank fish community
	Authors:	Kiersten L. Curti, Jeremy S. Collie, Christopher M. Legault, Jason S.
		Link
	Keywords:	multispecies model, ecosystem approach to fisheries, population
		dynamics
<u>G: 37</u>	Title:	Reading the crystal ball: using multi-species stock-assessment
<u>Oral</u>		models to predict climate-driven changes to recruitment, mortality,
		and biological reference points for Bering Sea (USA) fisheries.
	Authors:	Kirstin K. Holsman <sup>*</sup> , Kerim Aydin, James Ianelli, Anne Hollowed,
		Albert Hermann
	Keywords:	Climate change, multi-species, stock assessment models, predator-
C: 28	Title	prey, trophic interactions, Alaska, groundfish
<u>G: 38</u> <u>Oral</u>	Title:	Towards operational assessments: selection, vetting, and standardized analysis of ecosystem indicators for the Northeast US
		Large Marine Ecosystem
	Authors:	S. Gaichas, J. Link, J. Hare, M. Fogarty, P. Pinto da Silva, G. DePiper,
		J. Cournane, J. Manderson, S. Lucey, M. Lowe, S. Large, G. Fay
	Keywords:	ecosystem indicators, integrated ecosystem assessment, risk
	j	assessment, Northeast US Large Marine Ecosystem



Code         Other reference           G: 39 Oral         Title:         Environmental risk assessments in the context of marine spatial management: Current approaches and some perspectives from the German EEZ of the North Sea           Authors:         Stelzenmüller, V, Fock, H.O., Gimpel, A., Seidel, H., Diekmann, R., Probst, W.N., Callis, U.; Bockelmann, F., Neumann, H., Kröncke, I.           Keywords:         Bayesian believe network, disturbance indicator, fishing frequency, GIS, marine spatial planning           G: 40         Title:         Broadening the perspective on fisheries management actions: assessing resource use and environmental impacts from seafood products           Authors:         Sara Hornborg and Friederike Ziegler           Keywords:         LCA, sustainable development, fuel use, fisheries management           G: 41         Title:         Evaluation of spatial management scenarios supporting an ecosystem-based approach to MSP - the German case           Authors:         Anthe Gimpel, Vanessa Stelzenmüller           Keywords:         Geographic information system-based multi criteria evaluation (GIS MCE), German EEZ, Marine spatial planning (MSP), Spatial management scenario, Species distribution model (SDM)           G: 42         Title:         Investigating spatial and demographic indicators, Demographic indicators, Signid Lehuta Paul Marchal Youen Vermard           Keywords:         Harvest Control Rules, Statial indicators, Demographic indicators, Signid Lehuta Paul Marchal Youen Vermard           G: 43	CM		Oral Presentations
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Oral Authors: Jose L. Santiago, Juan C. Surís-Regueiro, Julia Torralba-Cano	G: 46	Title:	Translating the stock assessments into socio-economic effects
Authors: Jose L. Santiago, Juan C. Surís-Regueiro, Julia Torralba-Cano			
Keywords: EAFM, socio-economic effects, input-output, fisheries		Authors:	Jose L. Santiago, Juan C. Surís-Regueiro, Julia Torralba-Cano
		Keywords:	EAFM, socio-economic effects, input-output, fisheries



СМ		Oral Presentations
Code		
<u>G: 47</u> Oral	Title:	A Bio-economic Model of European Fleets
	Authors:	Griffin Carpenter, Aniol Esteban
	Keywords:	Bio-economic model, socio-economic indicators, MSY, ecosystem-
		based management
G: 48 Oral	Title:	Trading yield against precautionarity and the need for stability in the fishing sector
	Authors:	Mikael van Deurs, Anna Rindorf, Morten Vinther, Henrik
		Mosegaard and Lotte Worsøe
	Keywords:	MSE, stability, precautionarity, sandeel, sprat
<u>G: 49</u>	Title:	Modelling the spatio-temporal interplay between North Sea saithe
<u>Oral</u>		(Pollachius virens) and multiple fleet segments for management evaluation
	Authors:	Simons Sarah Laura, Döring Ralf, Temming Axel
	Keywords:	fleet dynamics, socio-economics, spatial structure, stock assessment, population dynamics
G: 50	Title:	Assessing the relative importance of economic valuation, ecological
Oral		and socio-economic ecosystem indicators: a multi-criteria
		application to Australian coastal development
	Authors:	Jean-Baptiste Marre, Olivier Thebaud, Sean Pascoe, Sarah Jennings,
		Jean Boncoeur
	Keywords:	
<u>G: 51</u> <u>Oral</u>	Title:	Choosing a response when supporting information is contradictory and stakeholders disagree
<u>0141</u>	Authors:	Deirdre E. Duggan, Keith D. Farnsworth, Sarah B. M. Kraak, Dave
		G. Reid, and Dorothy, J. Dankel
	Keywords:	uncertainty, fisheries science, post-normal science, paradigm shift,
	2	communication framework, NUSAP
<u>G: 52</u>	Title:	Managing ecosystems of the high seas of the Southern Ocean
<u>Oral</u>		practicing consensus-based decision-making
	Authors:	Jessica Nilsson, Marcus Haward, Elizabeth Fulton & Craig Johnson
	Keywords:	Antarctica, ecosystem-based management, CCAMLR, by-catch
0.53		mitigation, Southern Ocean, consensus-based management
G: 53	Title:	Fish are Normal, Fisheries are Post-Normal: A Post-Normal Science
Oral		characterization of quantifying uncertainty in datasets by using the
	Authors:	NUSAP approach Dorothy J. Dankel
		uncertainty, fisheries science, post-normal science, paradigm shift,
	Keywords:	communication framework, NUSAP
<u>G: 54</u>	Title:	Linking information use to societal contexts in ecosystem-based
<u>Oral</u>		management: knowledge interaction and policy-integration at
	Authors:	different scales of EU fisheries governance
		Sebastian Linke and Alfred Sandström
	Keywords:	fisheries co-management; information use; knowledge interaction;
		policy analysis



СМ		Posters
Code		
G: 09 Poster	Title:	Assessing the ecological footprint of commercial fisheries using a spatially explicit semi-quantitative risk assessment for New Zealand deepwater fish stocks
	Authors:	Charles Edwards & Alistair Dunn
	Keywords:	by-catch; deepwater; swept-area; risk; impact assessment
<u>G: 10</u> <u>Poster</u>	Title:	An evaluation of the use of the Traditional Ecological Knowledge of the fishers in the management of their fisheries: the case of the Galician purse seine fleet
	Authors:	Pablo Pita, Duarte Fernández-Vidal and Ramón Muiño
	Keywords:	Purse seine, log-book, data-logger, TEK, mapping
G: 12 Poster	Title:	The times they are a-changin': the radical and successful transformation of the artisanal shellfisheries in Galicia
	Authors:	Gonzalo Macho, Sebastián Villasante, Inés Naya, Juan Freire, Emilio Abella, José Manuel Parada, Antonio García-Allut, Ricardo Arnaiz, Elsa Vázquez, Jo
	Keywords:	Small-scale fisheries governance, Community-based management, Co-management, territorial tenure rights
G: 13 Poster	Title:	A Generic Matrix tool for identifying key regional pressure-impact links in marine management
	Authors:	Kryvenko O., Churilova T., Suslin V., Mazik K., Barnard S., Papadopoulou K.N., Smith C.J., Moncheva S., Patricio J., Bisel K.C, Solaun O., Elliott M.,
	Keywords:	Pressure Assessment, biodiversity, marine management, MSFD
<u>G: 14</u> <u>Poster</u>	Title:	Impact of management measures, fish prices and stock abundance in the fleet dynamics of the otter-trawlers operating in Galician- Cantabrian Sea fishing ground
	Authors:	M. P. Sampedro, I. González Herraiz, A.C. Fariña, J. Castro, D. Garabana
	Keywords:	fleet dynamics, Cantabrian Sea, fish price, management measures, stock abundance
G: 15 Poster	Withdrawn	