

**Theme Session P**  
**Operational solutions for cephalopod fisheries and culture**

Conveners: Marina Santurtun (Spain), Joao Pereira (Portugal), Begoña Santos (Spain), and Jean-Paul Robin (France)

**Agenda and Orders of the Day for:**

Thursday 18 September 2014, 17:30–19:00 – Gaviota

Friday 19 September 2014, 09:00–17:00 – Gaviota

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|------------------------------|-------|
| 1) Opening and introduction  | 17:30 |
| 2) Appointment of rapporteur |       |
| 3) Presentation of papers    |       |

<b>CM Code</b>		<b>Time</b>
<b>THURSDAY 18 SEPTEMBER 2014, 17:30–19:00 – Gaviota</b>		
P: 01 Oral	<b>Title:</b> Environmental impacts on migrations of <i>Illex argentinus</i> in the Southwest Atlantic with applications to the distribution of fishing fleet <hr/> <b>Author:</b> Alexander Arkhipkin <hr/> <b>Keywords:</b> Southwest Atlantic, Falkland Islands, <i>Illex argentinus</i> , migrations, fishing fleet	17:45
P: 02 Oral	<b>Title:</b> Modelling seasonal variability of cephalopod abundances of three contrasting species from Western Mediterranean Sea <hr/> <b>Authors:</b> P. Puerta, M. Hidalgo, and A. Quetglas <hr/> <b>Keywords:</b> seasonality, cephalopods, environmental variability, spatio-temporal trends	18:00
P: 03 Oral	<b>Title:</b> Common octopus ( <i>Octopus vulgaris</i> , Cuvier 1797) abundance dynamics and its relationship with environmental parameters on the Portuguese Northwest Coast <hr/> <b>Authors:</b> Sílvia Lourenço, Carlos Soderblohm, Inês Cardoso, Ana Moreno, Cristina Silva, Karim Erzini, and João Pereira <hr/> <b>Keywords:</b> common octopus, fisheries, abundance, environment	18:15
P: 04 Oral	<b>Title:</b> Development of a predictive tool for English Channel squids abundance ( <i>Loligo forbesii</i> and <i>Loligo vulgaris</i> ) applicable early in the fishing season: linear approach using climatic data <hr/> <b>Authors:</b> Edouard Duhem and Jean-Paul Robin <hr/> <b>Keywords:</b> squid, <i>Loligo forbesii</i> , <i>Loligo vulgaris</i> , English Channel, abundance index, Delta-GLM, climatic variations, Bayesian	18:30

P: 05 Oral	<b>Title:</b> Untangling drivers, mechanisms and scales of environmental effects on squid availability to a seasonal inshore fishery	18:45
	<b>Authors:</b> Owen C. Nichols, Jeremy R. King, Jonathan A. Hare, and Steven X. Cadrin	
	<b>Keywords:</b> cephalopod, <i>Doryteuthis pealeii</i> , distribution, abundance, temperature, climate	

**FRIDAY 19 SEPTEMBER 2014, 09:00–17:00 – Gaviota**

P: 06 Oral	<b>Title:</b> Environmental effects on <i>Octopus vulgaris</i> landings in northwest Spanish waters	09:00
	<b>Authors:</b> Gersom Costas, Isabel Bruno, and Graham J. Pierce	
	<b>Keywords:</b> <i>Octopus vulgaris</i> , environmental variables, landings, general additive model, time series	
P: 07 Oral	<b>Title:</b> Thermal habitat compression and density-dependent overwintering mortality in longfin inshore squid: Theory, empirical support, and a possible application enhancing the flexibility of fisheries management	09:15
	<b>Authors:</b> John Pilling Manderson, Howard Townsend, Josh Kohut, Laura Palamara, and Enrique Churchister	
	<b>Keywords:</b> dynamic habitat, habitat mediated density dependence, longfin inshore squid	
P: 08 Oral	<b>Title:</b> Spatial differences and temporal trends in cephalopod populations along the Mediterranean	09:30
	<b>Authors:</b> Stefanie Keller, Valerio Bartolino, Manuel Hidalgo, Antoni Quetglas, Isabella Bitetto, Loredana Casciaro, Antonio Esteban, Cristina Garcia, Germana Garofalo, Marios Iosifides, Angelique Jadaud, Argyris Kallianiotis, Evgenia Lefkaditou, Porzia Maiorano, Bojan Marceta, Enric Massuti, Roberta Mifsud, Panagiota Peristeraki, Paolo Sartor, Maria Teresa Spedicato, and George Tserpes	
	<b>Keywords:</b> Mediterranean, cephalopods, community analysis, spacio-temporal distribution	
P: 09 Oral	<b>Title:</b> New approach for Loliginids paralarvae identification in Galicia coastal waters	09:45
	<b>Author:</b> Lorena Olmos-Pérez, Álvaro Roura, and Ángel F. González	
	<b>Keywords:</b> Loliginids, paralarvae, molecular identification, Galicia	
P: 10 Oral	<b>Title:</b> Stylet increment analysis in <i>Eledone cirrhosa</i> from the Northwestern Iberian population	10:00
	<b>Authors:</b> M. Regueira, Ángel F. González, and Ángel Guerra	
	<b>Keywords:</b> <i>Eledone cirrhosa</i> , stylets, age, growth, Northeastern Iberian waters	
P: 11 Oral	<b>Title:</b> Sustainability of cephalopod fisheries across the World: fluctuations, stock assessment and management	10:15
	<b>Authors:</b> Vladimir Laptikhovsky and Beatriz Roel	
	<b>Keywords:</b> cephalopod, fishery, stock assessment, management	

**BREAK**

P: 12 Oral	<b>Title:</b> First steps towards providing management advice for the Bay of Biscay squid ( <i>Loligo vulgaris</i> )	11:00
	<b>Authors:</b> Leire Ibaibarriaga, Sonia Sanchez, Marina Santurtun, Ane Iriondo, Edouard Duhem, and Jean-Paul Robin	
	<b>Keywords:</b> <i>Loligo vulgaris</i> , biomass dynamic model, data-limited stocks, Bay of Biscay	
P: 13 Oral	<b>Title:</b> Much ado about nothing – the Algarve small-scale octopus fishery flare 4 years hence – non-issues and realities	11:15
	<b>Authors:</b> João Pereira, Manuela Azevedo, and Cristina Pita	
	<b>Keywords:</b> Octopus, SSF, management, Portugal	
P: 14 Oral	<b>Title:</b> Can we manage Mediterranean cephalopod stocks at MSY by 2015?	11:30
	<b>Authors:</b> Antonio Quetglas, S. Keller, and E. Massutí	
	<b>Keywords:</b> MSY, assessment, management, cephalopods, Mediterranean	
P: 15 Oral	<b>Title:</b> Environmental and fishery-driven dynamics of the common octopus ( <i>Octopus vulgaris</i> ) based on time-series analyses from leeward Algarve, southern Portugal	11:45
	<b>Authors:</b> Carlos P. Sonderblohm, João Pereira, and Karim Erzini	
	<b>Keywords:</b> environment, <i>Octopus vulgaris</i> , Portugal, recruitment, time-series, trap fishing, trends	
P: 16 Oral	<b>Title:</b> Good environmental status for cephalopods in UK waters?	12:00
	<b>Authors:</b> G.J. Pierce, L.C. Hastie, N. El Shanawany, V. Valavanis, J. Fernandez, A. Arkhipkin, J-P. Robin, J. Ellis, F. Burns, S.P.R. Greenstreet, and B. Roel	
	<b>Keywords:</b> squid, octopus, cuttlefish, baselines, environmental relationships, MSFD	
P: 17 Oral	<b>Title:</b> Spatial and temporal distribution patterns of the effort of cuttlefish ( <i>Sepia officinalis</i> ) fishery at the Marine Reserve of Fishing Interest Ría de Cedeira (Galicia, NW Spain)	12:15
	<b>Authors:</b> Ana Tubío and Ramón Muiño	
	<b>Keywords:</b> cephalopod, cuttlefish, artisanal fisheries, management, marine protected areas, <i>Sepia officinalis</i>	
P: 21 Oral	<b>Title:</b> Competing strategies of two fleets (artisanal and recreational) for assuring fishing activity and resource sustainability	12:30
	<b>Authors:</b> Estanis Mugerza, Luis Arregi, Ane Iriondo, Lucia Zarauz, Jon Ruiz, and Marina Santurtun	
	<b>Keywords:</b> Cephalopods catches, artisanal and recreational fisheries, assessment, fleet interaction	
P: 18 Oral	<b>Title:</b> Nursery and spawning areas of the squid <i>Loligo vulgaris</i> on the Portuguese Northwest Coast	12:45
	<b>Authors:</b> Ana Moreno, Corina Chaves, Sílvia Lourenço, Hugo Mendes, and João Pereira	
	<b>Keywords:</b> <i>Loligo vulgaris</i> , nurseries, spawning areas, essential habitat	
<b>LUNCH</b>		
P: 19 Oral	<b>Title:</b> Using statistical time series approaches in the characterization and monitoring of cephalopod fisheries	15:00
	<b>Authors:</b> N. Prista, J. Pereira, and A. Moreno	
	<b>Keywords:</b> time-series analysis, landings, forecasts, cephalopods, Portugal	

P: 22 Oral	<b>Title:</b> Investigating husbandry and enrichment for captive common European cuttlefish ( <i>Sepia officinalis</i> )	15:15
	<b>Authors:</b> Gavan M. Cooke and Belinda M. Tonkins	
	<b>Keywords:</b> cephalopods, cuttlefish, welfare, husbandry, enrichment, aquaculture	
P: 23 Oral	<b>Title:</b> European research surveys for fisheries assessment vs the ARRIVE Guidelines: or how to reduce unnecessary mortality on some species – octopus, rays and demersal sharks in Portuguese surveys	15:30
	<b>Authors:</b> João Pereira, Sílvia Lourenço, Corina Chaves, Irineu Batista, Bárbara Serra-Pereira, and Ivone Figueiredo	
	<b>Keywords:</b> ARRIVE guidelines, animal welfare, octopus, rays, sharks	
P: 24 Oral	<b>Title:</b> A joint academic-industrial project to culture the Asian common octopus commercially using land-based aquaria	15:45
	<b>Authors:</b> Ian G. Gleadall, Goh Nishitani, Masami Abe, Keiji Matsubara, Nobuhiko Akiyama, and Masazumi Nishikawa	
	<b>Keywords:</b> <i>Octopus sinensis</i> , aquaculture, paralarvae, feed	
P: 20 Oral	<b>Title:</b> Preliminary trials to model inshore migration of English Channel cuttlefish spawners ( <i>Sepia officinalis</i> ) by means of generalized depletion models applied to inshore trap fisheries in French and UK waters	16:00
	<b>Authors:</b> Edouard Duhem, Victoria Wearmouth, Olivier Basuyaux, Beatriz Roel, Franck Coppin, and Jean-Paul Robin	
	<b>Keywords:</b> cuttlefish, <i>Sepia officinalis</i> , English Channel, generalized depletion models, inshore fisheries, traps, spawning migrations	
<b>Poster presentations</b>		
P: 26 Poster	<b>Title:</b> What about recreational fishing? Estimating total harvest from the recreational squid fishery	16:15
	<b>Authors:</b> Miguel Cabanellas-Reboredo, Josep Alós, Miquel Palmer, Ángel Guerra, and Beatriz Morales-Nin	
	<b>Keywords:</b> recreational fishery, angler typology, total harvest, <i>Loligo vulgaris</i> , fishing effort, catch rates	
P: 28 Poster	<b>Title:</b> Squid jigging: An important emerging fishery for the Manx economy?	16:20
	<b>Authors:</b> Isobel Bloor, Sam Dignan, Lee Murray, and Michel Kaiser	
	<b>Keywords:</b> cephalopods, squid, jigging, Isle of Man, economy	
P: 25 Poster	<b>Title:</b> Trophic ecology of juvenile cuttlefish from the main spawning grounds of the English Channel	16:25
	<b>Authors:</b> K. Grangeré, S. Lefebvre, J. Lepoittevin, and J-P. Robin	
	<b>Keywords:</b> diet, stable isotopes, stomach contents, cuttlefish, trophic web	
P: 27 Poster	<b>Title:</b> Spawning habitat selection by <i>Octopus vulgaris</i> : A new tool for sustainable management of this resource in NE Atlantic	16:30
	<b>Authors:</b> Ángel Guerra, Jorge Hernández-Urcera, Manuel E. Garci, Marta Sestelo, Marcos Regueira, Ángel F. González, Miguel Cabanellas-Reboredo, Matías Calvo-Manazza, and Beatriz Morales-Nin	
	<b>Keywords:</b> <i>Octopus vulgaris</i> , essential habitat, visual censuses, environmental variable, fisheries management, marine protected areas	
	<b>Discussion</b>	16:35
	<b>End of session</b>	17:00