

Theme Session A

Gelatinous zooplankton on a global perspective: interactions with fisheries and consequences for socio-economics

Conveners: Cornelia Jaspers (Denmark), Richard Brodeur (PICES), and José Luis Acuña (Spain)

Agenda and Orders of the Day for:

Wednesday 17 September 2014, 09:00–13:00 – Modular Room 1

Wednesday 17 September 2014, 17:00–19:00 – Modular Room 1

Thursday 18 September 2014, 10:30–13:00 – Modular Room 1

- 1) Opening and introduction 09:00
- 2) Appointment of rapporteur
- 3) Presentation of papers

CM Code		Time
WEDNESDAY 17 SEPTEMBER 2014, 09:00–13:00 – Modular Room 1		
A: 01 Oral	Title: Recurrent jellyfish blooms in the East Asian seas: how to adapt and manage for fisheries sustainability Author: Shin-ichi Uye Keywords: <i>Aurelia aurita</i> , <i>Nemopilema nomurai</i> , causes, forecast, countermeasures, fisheries sustainability, adaptation, management, East Asian seas	09:15
A: 02 Oral	Title: Has the biomass of jellyfish already surpassed small pelagic fish in the NW Mediterranean Sea? Results from an intense spatiotemporal survey during 2011-2014 and comparison with the long-term trend. Authors: Martin K.S. Lilley, Leo Berline, Martina Ferraris, Amanda Elineau, Perrine Cuvilliers, Lars Stemmann, Fabien Lombard Keywords: Jellyfish, spatial and temporal distribution, abundance, biomass, carbon flux	09:30
A: 03 Oral	Title: Fish, jellyfish, and Killing the Winner Authors: Anders F. Opdal and Dag L. Aksnes Keywords: jellyfish, fish, competition, eutrophication, water clarity	09:45
BREAK		
A: 04 Oral	Title: Jellyfish, Forage Fish and the World's Major Fisheries Authors: Kelly L. Robinson, W. Monty Graham, Richard D. Brodeur, James J. Ruzicka, Frank J. Hernandez, Mary Beth Decker, Marcelo Acha, Hermes W. Mianzan, Javier Quiñones, and Shin-ichi Uye Keywords: wasp-waist species, forage fish fisheries, jellyfish blooms, ecosystem transformation, ecosystem-based fisheries management	10:30

A: 05 Oral	Title: Impact of <i>Pelagia noctiluca</i> jellyfish on fish populations: predation and food competition in the NW Mediterranean	10:45
	Authors: Uxue Tilves, Jennifer E. Purcell, Verónica Fuentes, Josep-Maria Gili, Vanesa Raya, Maria Pascual, and Ana Sabatés	
	Keywords: scyphozoan, gut content, digestion time, ichthyoplankton, zooplankton	
A: 06 Oral	Title: Role of large coastal jellyfish and forage fish as energy transfer pathways in the northern Gulf of Mexico	11:00
	Authors: Kelly L. Robinson, James Ruzicka, Mary Beth Decker, Frank Hernandez, Richard D. Brodeur, and W. Monty Graham	
	Keywords: forage fish, Gulf menhaden, jellyfish, ecosystem modeling, Gulf of Mexico, ecosystem-based fisheries management	
A: 07 Oral	Title: Effects of <i>Pelagia noctiluca</i> jellyfish swarms on caged gilthead sea bream	11:15
	Authors: M. Bosch-Belmar, O. Kéfi-Daly Yahia, C. M'Rabet, R. Dhaouadi, V. Fuentes, M. Chalghaf, and S. Piraino	
	Keywords: marine aquaculture, gelatinous zooplankton, fish mortalities, gill disorders	
A: 08 Oral	Title: Distribution of the non-indigenous ctenophore <i>Mnemiopsis leidyi</i> and impact on plankton community structure in the Eastern English Channel–Southern North Sea region	11:30
	Authors: Elvire Antajan, Vincent Cornille, Kris Hostens, Valérie Lefebvre, Sophie Pitois, Morgane Travers-Trolet, Lies Vansteenbrugge, Dorothee Vincent, David Vuylsteke, Lodewijk van Walraven, and Sofie Vandendriessche	
	Keywords: <i>Mnemiopsis leidyi</i> , spatial distribution, plankton typology, English Channel, Southern North Sea	
A: 09 Oral	Title: Fine-scale vertical distribution and migration of gelatinous zooplankton and ichthyoplankton in the northern Gulf of Mexico	11:45
	Authors: Jessica Y. Luo, Cedric M. Guigand, and Robert K. Cowen	
	Keywords: diel vertical migration, ichthyoplankton, gelatinous zooplankton, gulf of mexico, imaging systems, trophic interactions	
A: 10 Oral	Title: The influence of habitat occupancy by gelatinous zooplankton on pelagic community in Barents Sea ecosystem	12:00
	Author: Elena Eriksen	
	Keywords: gelatinous zooplankton, habitat occupancy, biomass, Barents Sea	
A: 11 Oral	Title: Comparison between introduced and native ctenophores in Nordic waters – feeding rates and survival in low food conditions	12:15
	Authors: Lena Granhag and Aino Hosia	
	Keywords: lobate ctenophores, zooplankton predation, starvation survival, ballast water transfer	
A: 12 Oral	Title: Gelatinous zooplankton in the Belgian part of the North Sea and the adjacent Schelde estuary: a real problem?	12:30
	Authors: Lies Vansteenbrugge, Kris Hostens, Tina Van Regenmortel, Marleen De Troch, and Magda Vincx	
	Keywords: Gelatinous zooplankton, spatial and temporal distribution, Belgian part of the North Sea, Schelde estuary	

A: 13 Oral	Title: Does the "snot" of the oceans matter? Engaging with the public on gelatinous zooplankton. Lessons learned from The Danish Eel Expedition 2014	12:45
	Author: Line Reeh, Cornelia Jaspers, Sune Riis Sørensen, Mads Christoffersen, Torkel Gissel Nielsen, and Peter Munk	
	Keywords: gelatinous zooplankton, snot, communication, public engagement, public outreach, social media, press, Sargasso Sea, European Eel, www.facebook.com/aaleekspedition	

WEDNESDAY 17 SEPTEMBER 2014, 17:00–19:00 – Modular Room 1

A: 14 Oral	Title: Range expansion of the Sea Nettle (<i>Chrysaora quinquecirrha</i>) and impacts on pelagic food webs	17:00
	Authors: Paul A. X. Bologna, John J. Gaynor, Christie Castellano, and Dena Restaino	
	Keywords: Jellyfish invasion, top-down, <i>Chrysaora</i> , <i>Mnemiopsis</i>	
A: 15 Oral	Title: Coelenterates on the upswing along the west coast of India – review of data from International Indian Ocean Expedition (IIOE, 1960–1965) to 2005	17:15
	Author: Rosamma Stephen	
	Keywords: jelly fish blooms, coelenterates, fishery	
A: 16 Oral	Title: A density dependent <i>Thalia democratica</i> population model	17:30
	Authors: Natasha Henschke, James A Smith, Jason D. Everett, and Iain M Suthers	
	Keywords: salps, salp swarm, <i>Thalia democratica</i> , population model	
A: 17 Oral	Title: <i>Scyphozoan medusae</i> : the seasonal and spatial distribution along transects trough the Baltic Sea	17:45
	Author: Elena Karasiova, Igor Karpushevski, and Alexander Zezera	
	Keywords: <i>Scyphozoan medusae</i> , distributional traits, biotopes	
A: 18 Oral	Title: Along-shore and cross-shelf distributions of planktonic cnidarians during autumnal offshore transport in the southern Gulf of Mexico	18:00
	Authors: L. Martell, M. Sánchez-Ramírez, and A. Ocaña-Luna	
	Keywords: jellyfish, hydromedusae, siphonophores, offshore transport, Bay of Campeche	
A: 19 Oral	Title: Changes in jellyfish populations during mucilage event in the Izmit Bay (the northeastern Marmara Sea)	18:15
	Author: Melek Isinibilir	
	Keywords: Marmara Sea, mucilage, gelatinous zooplankton	
	Tribute to Hermes Mianzan	18:30
	Discussion	18:45

THURSDAY 18 SEPTEMBER 2014, 10:30–13:00 – Modular Room 1

A: 20 Oral	Title: Invited speaker Veronica Fuentes	10:30
A: 21 Oral	Title: Laboratory studies on planulae and polyps of scyphozoans help reveal the dynamics and constraints of North Sea jellyfish populations Authors: Maria Gambill, Marc Hufnagl, Markus Kreis, and Myron A. Peck Keywords: jellyfish, planulae, polyps, ecophysiology, laboratory, experiments, biophysical modelling	11:00
A: 22 Oral	Title: Growth and lifecycle of the scyphozoan jellyfish <i>Pelagia noctiluca</i> : results from laboratory rearing and <i>in situ</i> observations Authors: Martin K.S. Lilley, Martina Ferraris, Amanda Elineau, Leo Berline, Perrine Cuvilliers, Laurent Gilletta, Gabriel Gorsky, and Fabien Lombard Keywords: Jellyfish, growth rates, carbon flux, seasonal impact	11:15
A: 23 Oral	Title: Dynamics of production and mortality of <i>Aurelia aurita</i> 's ephyrae in Thau Lagoon, Northwestern Mediterranean Authors: R. Marques, C. Bouvier, M. Cantou, A. Darnaude, J.C. Molinero., C. Przybyla, S. Soriano., J.A. Tomasini, and D. Bonnet Keywords: <i>Aurelia aurita</i> , polyps, ephyrae, population dynamics, Thau lagoon, fish predation	11:30
A: 24 Oral	Title: The regulation of the scyphomedusa <i>Cyanea capillata</i> through predation on its larval stages, from release of planulae to settlement Author: Zafir Kuplik, Dror Angel, and Dani Kerem Keywords: jellyfish, planula, predation, population regulation	11:45
A: 25 Oral	Title: What are jellyfish really eating? Authors: M. Parra, R. Marques, P. Chainho, M. Angelico, J. Cruz, P. Morais, and M. A. Chicharo Teodosio Keywords: <i>Blackfordia virginica</i> , plankton, RNA/DNA ratios, estuaries	12:00
A: 26 Oral	Title: Trophic ecology and potential predation impact of <i>Carybdea marsupialis</i> (Cnidaria: Cubozoa) in the NW Mediterranean Authors: M.J. Acevedo, V.L. Fuentes, M.B. Belmar, A.J. Canepa, K. Toledo-Guedes, C. Bordehore, and A. Calbet Keywords: box jellyfish, <i>Carybdea marsupialis</i> , gut content, prey selection, trophic role, predation impact	12:15
A: 27	Withdrawn	
A: 38 Oral	Title: Summer Jellyfish Blooms in an Upwelling Ecosystem: Modeling Impacts upon Fish Production and Evaluating Evidence Authors: James J. Ruzicka, Elizabeth A. Daly, and Richard D. Brodeur Keywords: jellyfish, fisheries, food web, model	12:30

A: 28 Oral	Title: Jellyfish as prey: frequency of predation and selective foraging of <i>Boops boops</i> (Vertebrata, Actinopterygii) on the mauve stinger <i>Pelagia noctiluca</i> (Cnidaria, Scyphozoa)	12:45
	Authors: Giacomo Milisenda, Sara Rosa, Veronica L. Fuentes, Ferdinando Boero, Letterio Guglielmo, Jennifer E. Purcell, and Stefano Piraino	
	Keywords: Jellyfish as prey, biochemical composition, energy content, fish foraging behaviour, trophic dead-ends, source-sink dynamics	
	End of session	13:00

Posters

A: 29 Poster	Title: Monsoon-driven hydrographic features affect thaliacean distribution in the Taiwanese waters, western North Pacific Ocean	
	Authors: W.T Lo, Z.H. Liao, and H.Y. Hsieh	
	Keywords: Monsoon, water mass, Taiwan thaliacean, distribution	
A: 30 Poster	Title: Lumpfish as main consumer of northern comb jelly and effective tool of its research	
	Authors: S.M. Rusyaev and A.M. Orlov	
	Keywords: Ctenophora, comb jelly, lumpfish, diet, distribution, Barents Sea	
A: 31 Poster	Title: Fish Predators of Northeast Pacific Jellyfish: What are we missing?	
	Authors: R.D. Brodeur, T.W. Buckley, and R.E. Hibshman	
	Keywords: jellyfish, nekton, diets, pelagic, demersal, digestion rates	
A: 32 Poster	Title: Jellyfish boost pelagic productivity	
	Authors: Aino Hosia, Christina Augustin, Julie Dinasquet, Jorun K Egge, Lena Granhag, Maria L Paulsen, Lasse Riemann, Janne-Markus Rintala, Outi Setälä, Julia Talvitie, and Josefin Titelman	
	Keywords: trophic cascades, energy pathways, pelagic community, food web	
A: 33 Poster	Title: First report on the population of gelatinous zooplankton around the French Caribbean islands (Guadeloupe and Martinique)	
	Authors: Delphine Thibault, Aurélie Boisnoir, Cecila Claeys, Louis Arreghini, and Fabien Lombard	
	Keywords: French Caribbean islands, gelatinous zooplankton, species, pluridisciplinarity oceanography/sociology	

A: 34 Poster	Title: A synthesis of the distribution of <i>Mnemiopsis leidyi</i> in European waters
	Authors: Cornelia Jaspers, Elvire Antajan, Ragnihild Asmus, Maarten Boersma, Umberto Binetti, Delphine Bonnet, Delphine Botha, Jens Tang Christensen, Floriane Delpy, Galina Finenko, Veronica Fuentes, Matilda Haraldsson, Holger Haslob, Aino Hosia, Bastian Huwer, Jamileh Javidpour, Lyudmila Kamburska, Florian Kellenreiter, Sandra Kube, Victor Langenberg, Thomas Lesniowski, Fabien Lombard, Martin Lilley, Arne Malzahn, Macarena Marambio, Veselina Mihneva, Lene Friis Møller, Ulrich Niermann, Melek Isinibilir Okyar, Sophie Pitois, Johan Robbens, Hans Ulrik Riisgaard, Matthias Schaber, Kremena Stefanova, Henk van der Veer, Lies Vansteenbrugge, and Lodewijk van Walraven
	Keywords: Invasive species, comb jelly, fisheries, gelatinous zooplankton
A: 35 Poster	Title: Potential impacts of fouling and planktonic cnidarians on farmed sea bass in the Western Mediterranean Sea
	Authors: M. Bosch-Belmar, M.M. Isern, V. Taurisano, G. Milisenda, S. Piraino, M. López, and V. Fuentes
	Keywords: marine aquaculture, gelatinous zooplankton, fouling, fish mortalities, gill disorders
A: 36 Poster	Title: Seasonal survey of gelatinous plankton within a harbour of the North Sea (Dunkirk, France): assessing potential clogging risk for coastal industrial plants
	Authors: Thomas Bastian, Elvire Antajan, Thomas Raud, Vincent Cornille, Jean-Michel Brylinski, and Dorothee Vincent
	Keywords: jellyfish, gelatinous plankton, seasonal monitoring, risk assessment, coastal industrial plant
A: 37 Poster	Title: A stinging tale? Looking for nematocysts of <i>Catostylus</i> jellyfish in gills of trawl-caught-and-discarded fish in Southeastern Australia
	Authors: Sebastian S. Uhlmann, Matt K. Broadhurst, and C. P. Brand
	Keywords: <i>Catostylus</i> jellyfish, histopathology, nematocysts, Surf bream (<i>Acanthopagrus australis</i>), unaccounted discard mortality
A: 39 Poster	Title: Potential impacts of the occurrence of blooms of <i>Blackfordia virginica</i> in the Mira estuary, SW Portugal
	Authors: Maria Manuel Angélico, Filipa Marques, Paula Chainho, Isabel Domingos, Alexandra Teodósio, and José Lino Costa
	Keywords: <i>Blackfordia virginica</i> , feeding behaviour, jelly impact
A: 40 Poster	Title: Development of <i>Carybdea brevipedalia</i> (Kishinouye, 1891) (Cnidaria: Cubozoa: Carybdeida: Carybdeidae) collected from northern Japan
	Authors: Sho Toshino, Haruka Shibata, and Hiroshi Miyake
	Keywords: budding, Cubozoa, life history, polyp

A: 41 Poster	Title: Jellyfish and the wind: distribution and abundance of <i>Chrysaora quinquecirrha</i> in a shallow water estuary, North Carolina, USA
	Authors: Mahealani Y. Kaneshiro and David G. Kimmel
	Keywords: jellyfish, sea nettles, <i>Chrysaora quinquecirrha</i> , wind-driven circulation, estuaries, recreation
A: 42 Poster	Title: The water content of gelatinous animals
	Author: A. Molina-Ramírez, C. Cáceres, J. Bueno, J.I. González-Gordillo, X. Irigoien, J. Sostres, X. Salaberria, A. Bode, M. L. Fernández Puelles, and F. Echevarria
	Keywords: body size, carbon, wet weight, gelatinous zooplankton, gelatinous necton, jellyfish, salp, ctenophore
A: 43 Poster	Title: JeDI (Jellyfish Database Initiative): a new open-access gelatinous plankton database
	Author: Cathy H. Lucas, Robert H. Condon, Carlos M. Duarte, William M. Graham, Kelly L. Robinson, Kylie A. Pitt, Mark Schildhauer, and Jim Regetz
	Keywords: plankton database, geographic patterns, cnidarian jellyfish, NCEAS
A: 44 Poster	Title: Jellyfish Distribution and Dynamics in the North Sea
	Author: Antonio Pliru and Christopher Lynam
	Keywords: jellyfish distribution; North Sea; species assemblages