

Bluefin Futures Symposium

SCHEDULE · **SUNDAY, JANUARY 17, 2016** · MONTEREY PLAZA HOTEL

TOPIC	TIME	SESSION
	16:00 - 20:00	Conference Registration Open at Monterey Plaza Hotel

SCHEDULE · **MONDAY, JANUARY 18, 2016** · MONTEREY PLAZA HOTEL

TOPIC	TIME	SESSION
	7:30 - 8:30	Breakfast at Monterey Plaza Hotel
Opening	8:30 - 9:00	Welcome and Introduction - Ms. Julie Packard , Executive Director, Monterey Bay Aquarium
	9:00 - 9:30	Keynote - Ms. Maria Damanaki , Former European Union Commissioner for Maritime Affairs and Fisheries, and Global Managing Director for Oceans, The Nature Conservancy: Bluefin tuna can be saved: A history of hope from the Mediterranean
	9:30 - 10:00	Keynote - Dr. Barbara Block , Stanford University: Sushi and satellites: The importance of science for assuring bluefin futures
	10:00 - 10:30	Break - Coffee and beverages

SCHEDULE · MONDAY, JANUARY 18, 2016 · MONTEREY PLAZA HOTEL

TOPIC	TIME	SESSION
<p>What science is needed for “science-based management” of Atlantic bluefin tuna?</p>	<p>10:30 - 12:00</p>	<p>SESSION 1 - Moderator: Dr. Clay Porch, NOAA</p>
		<p>Migration patterns and population structure of Atlantic bluefin tuna (<i>Thunnus thynnus</i>) - Dr. Andre Boustany, Duke University, Dr. Carol Reeb, Stanford University, et al.</p> <p>Life history and migrations of Mediterranean bluefin populations - Dr. Haritz Arrizabalaga, AZTI, et al.</p> <p>Back to the future: What population genomics and paleogenomics reveal on spatio-temporal stock structure, connectivity and adaptation in the Atlantic bluefin tuna - Dr. Fausto Tinti, University of Bologna, Dr. G.N. Puncher, Ghent University, et al.</p> <p>Origin and population connectivity of Atlantic bluefin tuna: Insights from natural markers in otoliths - Dr. Jay Rooker, Texas A&M University, Dr. Haritz Arrizabalaga, AZTI, et al.</p> <p>Predicting Atlantic bluefin tuna larval habitat in the western Atlantic - Dr. Barbara Muhling, Princeton University, Dr. John Lamkin, NOAA, et al.</p> <p>Improving the scientific understanding of Atlantic bluefin tuna: The ICCAT GBYP research program - Dr. Antonio Di Natale, ICCAT and Dr. David Die, University of Miami</p> <p>Session 1 Panel Discussion - What knowledge gaps do we need to address in order to advance Atlantic bluefin tuna management?</p>
	<p>12:00 - 13:30</p>	<p>Lunch at Monterey Plaza Hotel</p>

SCHEDULE · MONDAY, JANUARY 18, 2016 · MONTEREY PLAZA HOTEL

TOPIC	TIME	SESSION
<p>What science is needed for “science-based management” of southern bluefin tuna?</p>	<p>13:30 - 15:00</p>	<p>SESSION 2 - Moderator: Dr. Jim Ianelli, NOAA</p> <p>Advances in biology and life history of southern bluefin tuna - Ms. Jessica Farley, CSIRO, Ms. Paige Eveson, CSIRO, et al.</p> <p>Spatial dynamics of southern bluefin tuna - an overview and implications for management - Dr. Toby Patterson, CSIRO, Ms. Paige Eveson, CSIRO, et al.</p> <p>Long term recruitment monitoring data for the SBT management procedure and stock assessment models - Ms. Ann Preece, CSIRO, Ms. Paige Eveson, CSIRO, et al.</p> <p>Close-kin mark-recapture for southern bluefin tuna - Dr. Mark Bravington, CSIRO, Dr. Peter Grewe, CSIRO, et al.</p> <p>Session 2 Panel Discussion - What knowledge gaps do we need to address in order to advance southern bluefin tuna management?</p>
		<p>15:00 - 15:30</p>
<p>What science is needed for “science-based management” of Pacific bluefin tuna?</p>	<p>15:30 - 17:00</p>	<p>SESSION 3 - Moderator: Dr. Toshihide Kitakado, Tokyo University of Marine Science and Technology</p> <p>Life history of Pacific bluefin tuna - Dr. Tamaki Shimose, Seikai National Fisheries Research Institute, Japan Fisheries Research Agency</p> <p>Electronic tagging applications and migrations of Pacific bluefin tuna in the western Pacific Ocean - Dr. Takashi Kitagawa, University of Tokyo and Dr. Ko Fujioka, National Research Institute of Far Seas Fisheries, Japan Fisheries Research Agency</p> <p>Electronic tagging applications for Pacific bluefin tuna in the eastern Pacific Ocean: Migrations, fisheries and foraging - Dr. Rebecca Whitlock, Tuna Research and Conservation Center, Mr. Charles Farwell, Monterey Bay Aquarium, et al.</p> <p>Genetics of Pacific bluefin tuna: Introduction of close-kin project with NGS approaches by Fisheries Research Agency, Japan - Dr. Nobuaki Suzuki, National Research Institute of Far Seas Fisheries, Japan Fisheries Research Agency</p> <p>The influence of uncertainty in biological and fishing processes on Pacific bluefin tuna stock assessment - Dr. Mark Maunder, IATTC, Dr. Kevin Piner, NOAA, et al.</p> <p><i>Session 3 continues on page 9</i></p>

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TOPIC	TIME	SESSION
		SESSION 3 - continued
		Session 3 Panel Discussion - What knowledge gaps do we need to address in order to advance Pacific bluefin tuna management?
Discussion of scientific knowledge gaps, the management challenges they create and pathways to address priority research questions	17:00 - 18:00	SESSION 4 - Moderated Panel Discussion: Dr. Fabio Hazin , Universidade Federal Rural de Pernambuco and Chair, UN-FAO Committee on Fisheries
		Dr. John Gunn , AIMS Dr. Mark Bravington , CSIRO Dr. Sylvain Bonhommeau , Ifremer Dr. Barbara Block , Stanford University Dr. Craig Brown , NOAA Dr. Heidi Dewar , NOAA Dr. Takashi Kitagawa , University of Tokyo
	18:30 - 20:30	Evening Reception at Monterey Plaza Hotel

SCHEDULE · TUESDAY, JANUARY 19, 2016 · MONTEREY PLAZA HOTEL

TOPIC	TIME	SESSION
	7:30 - 8:30	Breakfast at Monterey Plaza Hotel
	8:30 - 9:00	Keynote - Prof. Glenn Hurry , MRAG Asia-Pacific: International bluefin management...does it deliver? Legacy and lessons of the last 20 years
Current stock status and challenges for assessment	9:00 - 10:30	SESSION 5 - Moderator: Dr. Joe Powers , Louisiana State University
		Western Atlantic bluefin tuna - Dr. Guillermo Diaz , NOAA, Dr. Matthew Laretta, NOAA, et al. Atlantic bluefin tuna: A Mediterranean perspective - Dr. Sylvain Bonhommeau , Ifremer <i>Session 5 continues on page 10</i>

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TOPIC	TIME	SESSION
<p>Current stock status and challenges for assessment <i>continued</i></p>		<p>SESSION 5 - continued</p> <p>Stock status and challenges for assessment of Pacific bluefin tuna - Dr. Hideki Nakano, National Research Institute of Far Seas Fisheries, Japan Fisheries Research Agency and Dr. Hiromu Fukuda, National Research Institute of Far Seas Fisheries, Japan Fisheries Research Agency</p> <p>Integrating past, present and future into a scientifically evaluated rebuilding plan for southern bluefin tuna - Dr. Richard Hillary, CSIRO, Ms. Ann Preece, CSIRO and Dr. Campbell Davies, CSIRO</p> <p>Session 5 Panel Discussion - Stock status and challenges for assessment of all bluefin tunas</p>
		<p>Break - Coffee and beverages</p>
<p>Modernizing science-based fisheries management tools</p>	<p>11:00 - 12:30</p>	<p>SESSION 6 - Moderator: Dr. Victor Restrepo, International Seafood Sustainability Foundation</p> <p>Spatial temporal assessments in modernizing fisheries management tools - Dr. Nathan Taylor, Fisheries and Oceans Canada, Dr. Murdoch McAllister, University of British Columbia, et al.</p> <p>Reference points - Mr. Alejandro Anganuzzi, Food and Agriculture Organization of the United Nations</p> <p>Harvest strategies, MSE and the precautionary approach in the management of bluefin tuna fisheries - Dr. Campbell Davies, CSIRO, Dr. Keith Sainsbury, University of Tasmania, et al.</p> <p>Towards a management strategy evaluation framework for Atlantic bluefin tunas - Dr. Tom Carruthers, University of British Columbia</p> <p>A harvest control rule for Pacific bluefin tuna based on recruitment indices - Mr. Shuya Nakatsuka, National Research Institute of Far Seas Fisheries, Japan Fisheries Research Agency</p> <p>Session 6 Panel Discussion - Achieving sustainability goals through science-based management tools</p>
		<p>Lunch on your own</p>
	<p>12:30 - 14:00</p>	

SCHEDULE · TUESDAY, JANUARY 19, 2016 · MONTEREY PLAZA HOTEL

TOPIC	TIME	SESSION
Working toward sustainable bluefin tuna fisheries: RFMO solutions	14:00 - 15:30	SESSION 7 Moderated Panel Discussion - Moderator: Prof. Glenn Hurry , MRAG Asia-Pacific
		<p>Mr. Masa Miyahara, President, Japan Fisheries Research Agency</p> <p>Mr. Russell Smith, Deputy Assistant Secretary for International Fisheries, National Oceanic and Atmospheric Administration, United States Department of Commerce</p> <p>Mr. Stefaan Depypere, Director of International Affairs and Markets, European Commission Directorate General for Maritime Affairs and Fisheries</p> <p>Dr. Pablo Roberto Arenas Fuentes, Director General, National Fisheries Institute (INAPESCA), Ministry of Agriculture, Livestock, Rural Development, Fisheries and Food (SAGARPA), Mexico</p> <p>Dr. James Findlay, Chief Executive Officer, Australian Fisheries Management Authority</p> <p>Ms. Amanda Nickson, Director, Global Tuna Conservation, The Pew Charitable Trusts</p> <p>Dr. Fabio Hazin, Universidade Federal Rural de Pernambuco and Chair, UN-FAO Committee on Fisheries</p>
	15:30 - 16:00	Break - Coffee and beverages
Advancing best practices in providing scientific advice	16:00 - 17:00	SESSION 8 Moderated Panel Discussion - Moderator: Dr. Jerry Scott , International Seafood Sustainability Foundation
		<p>Dr. Doug Butterworth, University of Cape Town</p> <p>Dr. Campbell Davies, CSIRO</p> <p>Mr. Alejandro Anganuzzi, Food and Agriculture Organization of the United Nations</p> <p>Dr. Hideki Nakano, National Research Institute of Far Seas Fisheries, Japan Fisheries Research Agency</p> <p>Ms. Shana Miller, The Ocean Foundation</p> <p>Dr. David Die, University of Miami</p>
	17:00 - 17:30	Day 2 Summary
	18:30 - 22:00	Dinner at the Monterey Bay Aquarium

SCHEDULE · WEDNESDAY, JANUARY 20, 2016 · MONTEREY PLAZA HOTEL

TOPIC	TIME	SESSION
	7:30 - 8:30	Breakfast at Monterey Plaza Hotel
Role of aquaculture and farming in the future of bluefin tunas	8:30 - 9:00	Keynote - Dr. Yoshifumi Sawada , Kindai University: Challenges of raising bluefin tuna
	9:00 - 10:30	SESSION 9 - Moderator: Dr. Barbara Block , Stanford University
		History and challenges of working with Pacific bluefin tuna, <i>Thunnus orientalis</i> , in captivity - Mr. Chuck Farwell , Monterey Bay Aquarium
		Progress in the domestication of <i>Thunnus thynnus</i> (DOTT) - Perspectives for Atlantic bluefin tuna aquaculture in the Mediterranean - Dr. Christopher Bridges , Universität Düsseldorf, Dr. Hillel Gordin, NCM-IOLR, et al.
		Progress in Spanish aquaculture - Dr. Aurelio Ortega Garcia , Spanish Institute of Oceanography (IEO) and Dr. Fernando de la Gándara, IEO
	Status of Mexican ranching - Mr. Benito Sarmiento , Baja Aqua Farms	
	The potential role of biofeeds in aquaculture of salmon and tuna - Mr. Josh Silverman , Calysta, Inc.	
	Resource and environmental intensity of tuna aquaculture - Dr. Dane Klinger , Princeton University	
	Session 9 Panel Discussion - What is the role of aquaculture and farming in the future of bluefin tunas?	
	10:30 - 11:00	Break - Coffee and beverages
	11:00 - 11:30	Keynote - Mr. Brian Jeffriess , Australian Southern Bluefin Tuna Industry Association: Bluefin ranching economics - Managing the resource and the farm

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TOPIC	TIME	SESSION
Bluefin tuna economics	11:30 - 12:30	SESSION 10 - Moderator: Mr. Brian Jeffriess, Australian Southern Bluefin Tuna Industry Association
		West Atlantic bluefin tuna: Some challenges and solutions in balancing economics and conservation - Mr. David Schalit, American Bluefin Tuna Association
		Pacific bluefin tuna fisheries and regulations in Japan - Dr. Yasuhiro Sanada, Waseda University
		Economic importance of access to Pacific bluefin tuna by eastern Pacific recreational anglers - Ms. Alayna Siddall, Sportfishing Association of California
		Session 10 Panel Discussion - Economic challenges and opportunities for future sustainability
	12:30 - 14:00	Lunch on your own
Bluefin in a warming world	14:00 - 14:30	Keynote - Dr. Robert B. Dunbar, Stanford University: Bluefin tuna in a warming world: The science of oceanic climate change and acidification
	14:30 - 15:30	SESSION 11 - Moderator: Dr. Cisco Werner, NOAA
		Habitat modeling, climate change and fishery applications - Dr. Alistair Hobday, CSIRO, et al.
		Examining the influence of climate variability and human impacts on northern bluefin tuna - Dr. Elliott Hazen, NOAA
		The influence of climate variability and change on Pacific tuna - Dr. Francisco Chavez, Monterey Bay Aquarium Research Institute and Dr. Barbara Block, Stanford University
		Session 11 Panel Discussion - How will bluefin fisheries management incorporate a changing climate?
	15:30 - 16:00	Break - Coffee and beverages
Closing	16:00 - 17:30	Closing Remarks on Bluefin Futures
	17:30 - 19:00	Closing Reception at Monterey Plaza Hotel