



OceanObs'09

*Ocean information for society:
sustaining the benefits,
realizing the potential*

www.oceanobs09.net

21-25 September 2009 - Venice, Italy

PROGRAMME

08:00	18:00			Registration	
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Celebrating a decade of progress and preparing for the future

Session chairs: Julie Hall, Ed Harrison, Detlef Stammer					
09:00	10:00	60'	1A	Opening	
		5'		Welcome from the co-chairs of the Organizing Committee	Julie Hall, Ed Harrison, Detlef Stammer, co-chairs of OceanObs'09 Organizing Committee
		5'		Welcome to Italy	Volker Liebig, Director of Earth Observation Exploitation and Services Division, ESA
		5'		Opening statement from the sponsors of the conference	Mikael Rattenborg, Director of Operations, EUMETSAT
		10'		Preview of the week ahead and presentation of the draft Conference Statement	Julie Hall, Ed Harrison, Detlef Stammer
		15'		Vision of the conference and the coming decade	Patricio Bernal, Executive Secretary of the Intergovernmental Oceanographic Commission of UNESCO
		15'		Sea level rise, storm surges, and the future of the City of Venice	Pierro Lionello, University of Salento
Session chair: Neville Smith					
10:00	12:00	120'	1B	Celebration of a decade of progress	
		10'		Introduction	Neville Smith
		20'		From the in situ perspective	Chet Koblinsky
		20'		From the satellite perspective	Mark Doherty
10:50	11:20	30'		COFFEE BREAK	
		20'		The development of the data system and data sharing	Sylvie Pouliquen
		20'		Ocean information for research and applications	Anthony Busalacchi
Session chair: Patricio Bernal					
12:00	13:15	75'	1C	High level perspectives: the need for ocean observations and information	
		15'		Keynote address	Jane Lubchenco, Administrator, U.S. National Oceanic and Atmospheric Administration (by video)
		15'		Keynote address	Jacqueline McGlade, Executive Director, European Environment Agency
		15'		Keynote address	Shailesh Nayak, Secretary, Indian Ministry of Earth Sciences
		15'		Keynote address	Michel Jarraud Secretary-General, World Meteorological Organization (represented by Carolin Richter)
		15'		Discussion	
13:15	14:45	90'		LUNCH	
Session chair: Toshio Suga					
14:45	17:15	90'	1D	Early successes	
		20'		El Niño – Southern Oscillation (ENSO) and seasonal forecasting	David Anderson
		20'		Intergovernmental Panel for Climate Change (IPCC) and attribution and prediction of climate: progress since the Fourth Assessment	Kevin Trenberth
		20'		Tsunami forecasting and community resilience	Eddie Bernard
15:45	16:15	30'		COFFEE BREAK	
		20'		Ocean colour: early successes and future needs	James Yoder
		20'		Long-term monitoring of plankton	Peter Burkill
		20'		Questions and discussion	
17:15	20:00			Opening Reception	
Public side events					
17:30	18:00			ESA Climate Change Initiative (Room: Sala delle Feste)	Contact: Jérôme Benveniste
19:00	20:00			POGO Partnership for the Observation of the Oceans	Contact: Trevor Platt

Scientific results and potential based on global observations

				Session chair: Alberto Piola	
09:00	10:30	90'	2A	Large-scale ocean properties: science, observations, and impacts	
		20'		Heat content and temperature	Susan Wijffels
		20'		Freshwater and salinity	Ray Schmitt
		20'		Sea level: regional and global trends	Anny Cazenave
		20'		Questions and discussion	
10:30	11:00	30'		COFFEE BREAK	
				Session chair: Claus Böning	
11:00	12:30	90'	2B	Large-scale ocean circulation and fluxes	
		20'		Ventilation and surface circulation	Lynne Talley
		20'		Deep circulation and meridional overturning	Steve Rintoul
		20'		Surface fluxes and processes including sea ice	Sergey Gulev
		20'		Questions and discussion	
12:30	14:00	90'		LUNCH	
				Session chair: Shubha Sathyendranath	
14:00	15:45	105'	2C	Biogeochemistry and ecosystems	
		20'		Carbon, oxygen and nutrients	Nicolas Gruber
		20'		Biodiversity	Ron O'Dor
		20'		Ecosystems	Ken Denman
		20'		Corals and habitats	Helen Yap
		20'		Questions and discussion	
15:45	18:00	135'		COFFEE BREAK & POSTER SESSION	
16:00	17:30	90'		Community Fora (parallel sessions)	
				Ocean biogeochemistry (Room: Mosaici 1)	Contact: Nicolas Gruber
				Ocean ecosystems (Room: Sala delle Feste)	Contact: Julie Hall, Peter Burkill, Shubha Sathyendranath
				Moderator: Chris Sabine	
18:00	19:00	60'	2R	Roundtable	
		60'		How are changes in the large-scale circulation impacting biological processes?	
19:00	19:30	30'		Preview: Modules of the forthcoming film "Oceans", by Jacques Perrin (Galatee Productions)	
				Public side events	
16:00	17:30			CLIVAR Pacific Panel Observational Programs: A focus on western boundary currents	Contact: Wenju Cai
18:00	20:00			Future Marine Meteorological Data Flow	Contact: Nicola Scott

Delivering services to society

				Session chair: Ilana Wainer	
09:00	10:30	90'	3A	Information and assessment	
		20'		Physical hindcasts and nowcasts: evolution and skill for service delivery	Pierre-Yves Le Traon
		20'		Monitoring and nowcasting of Harmful Algal Blooms	Richard Stumpf
		20'		Assessment of the current ocean carbon sink and its implications for climate change and mitigation	Arne Körtzinger
		20'		Questions and discussion	
10:30	11:00	30'		COFFEE BREAK	
				Session chair: Lisa Goddard	
11:00	12:30	90'	3B	Forecasting	
		20'		Short-term forecasts: delivery and observational requirements	Gary Brassington
		20'		Ocean observations for an end-to-end seasonal forecasting system	Magdalena Balmaseda
		20'		Decadal to centennial forecasting	James Hurrell
		20'		Questions and discussion	
12:30	14:00	90'		LUNCH	
				Session chair: José Muelbert	
14:00	15:45	105'	3C	Hazards, Impacts, and Management	
		20'		Ocean acidification	Debora Iglesias-Rodriguez
		20'		Ocean observations for ecosystem-based management	Tony Koslow
		20'		Coastal futures and ocean observing initiatives	Liana McManus
		20'		Economic benefits from ocean information	Ralph Rayner
		20'		Questions and discussion	
15:45	18:00	135'		COFFEE BREAK & POSTER SESSION	
16:00	17:30			Community Fora (parallel sessions)	
				WCRP Forum: towards integrated ocean basin observations planning (Room: Mosaici 1)	Contact: Martin Visbeck
				Ocean biodiversity (Room: Sala delle Feste)	Contact: Ron O'Dor
				Moderator: Eric Lindstrom	
18:00	19:00	60'	3R	Roundtable: Imperatives for ocean observing in a changing world	
				Public side events	
15:45	17:45			Review of user requirements for the ESA Storm Surge project	Contact: Boram Lee
19:00	20:00			Applied Acoustical Oceanography for the Global Ocean Observing System	Contact: Brian Dushaw

Developing technology and infrastructure

				Session chair: Kate Larkin	
09:00	10:30	90'	4A	In situ	
		20'		Integrating the ocean observing system: mobile platforms	Dean Roemmich
		20'		Sustained Eulerian observatories	Richard Lampitt and Paolo Favali
		20'		Developments for sustained measurement of new variables: ocean biology observatories	John Gunn
		20'		Questions and discussion	
10:30	11:00	30'		COFFEE BREAK	
				Session chair: Hans Bonekamp	
11:00	12:30	90'	4B	Satellite	
		20'		Operational missions	François Parisot
		20'		Research missions	Eric Lindstrom
		20'		Data integration and products	Bertrand Chapron
		20'		Questions and discussion	
12:30	14:00	90'		LUNCH	
				Session chair: David Legler	
14:00	15:45	105'	4C	Information Synthesis and Delivery	
		20'		Synthesis and assimilation systems: essential adjuncts to the Global Ocean Observing System	Michele Reinecker
		20'		Observational network design	Carl Wunsch
		20'		Data assembly infrastructure: from acquisition to archives	Robert Keeley
		20'		Data dissemination: from archives to customer	Jon Blower
		20'		Questions and discussion	
15:45	18:00	135'		COFFEE BREAK & POSTER SESSION	
				Moderator: Martin Visbeck	
18:00	19:00	60'	4R	Roundtable: Conference outcomes	
				Public side events	
16:30	18:00			GENESI-DR training workshop	Contact: Andrea Kaiser-Weiss
19:00	22:00			Social Event: Dinner on San Servolo island	Boats will leave starting at 19:00

The Way Forward

				Session chair: John Siddorn	
09:00	10:30	90'	5A	Delivering societal benefits from the ocean observing system	
		20'		Ocean monitoring and forecasting core services	Pierre Bahurel
		20'		Oceans and drought	Marty Hoerling
		20'		Fisheries management and ocean observations	David Checkley
		20'		Questions and discussion	
10:30	11:00	30'		COFFEE BREAK	
				Session chair: Martin Visbeck	
11:00	11:20	20'		Presentation of the Revised Conference Statement	
				Session chair: Pedro Monteiro	
11:20	15:00	220'	5B	Towards an integrated observing system	
		20'		Satellite observing system	Mark Drinkwater
		20'		In situ observing system	Uwe Send
		20'		Biogeochemistry and ecosystems observing system	Hervé Claustre
12:30	14:00	90'		LUNCH	
		20'		Climate modeling and assimilation	Guy Brasseur
		20'		Data management vision	Steve Hankin
		20'		Questions and discussion	
15:00	15:45	45'	5C	High-level perspectives: sustaining ocean observations	
		20'		Keynote address	Valère Moutarlier, Head of the GMES Bureau, DG Enterprise and Industry, European Commission
		20'		Keynote address	Timothy Killeen, Assistant Director for the Geosciences, U.S. National Science Foundation
15:45	16:15	30'		COFFEE BREAK	
				Session chair: José Achache	
16:15	17:15	60'	5D	Viewpoints from international programmes	
		5'			GEO Group on Earth Observations
		5'			CEOS Committee on Earth Observation Satellites
		5'			POGO Partnership for Observation of the Global Oceans
		5'			SCOR Scientific Committee on Oceanic Research
		5'			GCOS Global Climate Observing System
		5'			GOOS Global Ocean Observing System
		5'			JCOMM Joint WMO-IOC Technical Commission for Oceanography and Marine Meteorology
		5'			PICES North Pacific Marine Science Organization
		5'			ICES International Council for the Exploration of the Sea
		5'			CoML Census of Marine Life
		5'			IGBP International Geosphere-Biosphere Programme
		5'			WCRP World Climate Research Programme
				Co-chairs of the OceanObs'09 Conference	
17:15	17:30	15'	5E	Closing address	

Programme overview

Day 1	Day 2	Day 3	Day 4	Day 5
Celebrating a decade of progress and preparing for the future	Scientific results and potential based on global observations	Delivering services to society	Developing technology and infrastructure	The Way Forward
9:00 1A - Opening	9:00 2A - Large-scale ocean properties: science, observations, and impacts	9:00 3A - Information and assessment	9:00 4A - In situ	9:00 5A - Delivering societal benefits from the ocean observing system
10:00 1B - Celebration of a decade of progress				
12:00 1C - High level perspectives: the need for ocean observations and information	11:00 2B - Large-scale ocean circulation and fluxes	11:00 3B - Forecasting	11:00 4B - Satellite	11:00 Presentation of the Conference Statement
				11:20 5B - Towards an integrated observing system
13:15 LUNCH BREAK	12:30 LUNCH BREAK	12:30 LUNCH BREAK	12:30 LUNCH BREAK	12:30 LUNCH BREAK
14:45 1D - Early successes	14:00 2C - Biogeochemistry and ecosystems	14:00 3C - Hazards, Impacts, and Management	14:00 4C - Information Synthesis and Delivery	14:00 5B - Towards an integrated observing system (cont'd)
	15:45 Poster Session	15:45 Poster Session	15:45 Poster Session	15:00 5C - High-level perspectives
	16:00 Parallel Community Fora: Biogeochemistry Ecosystems	16:00 Parallel Community Fora: Towards integrated ocean basin observations planning Ocean Biodiversity		16:15 5D - Viewpoints from the International Programs
				17:15 5E - Closing address
17:15 Opening reception	18:00 Roundtable discussion: How are changes in the large-scale ocean circulation impacting biological processes?	18:00 Roundtable discussion: Imperatives for ocean observing in a changing world	18:00 Roundtable discussion: Conference outcomes	
	19:00 Preview of film Oceans		19:00 Boat departure for Conference Dinner	

