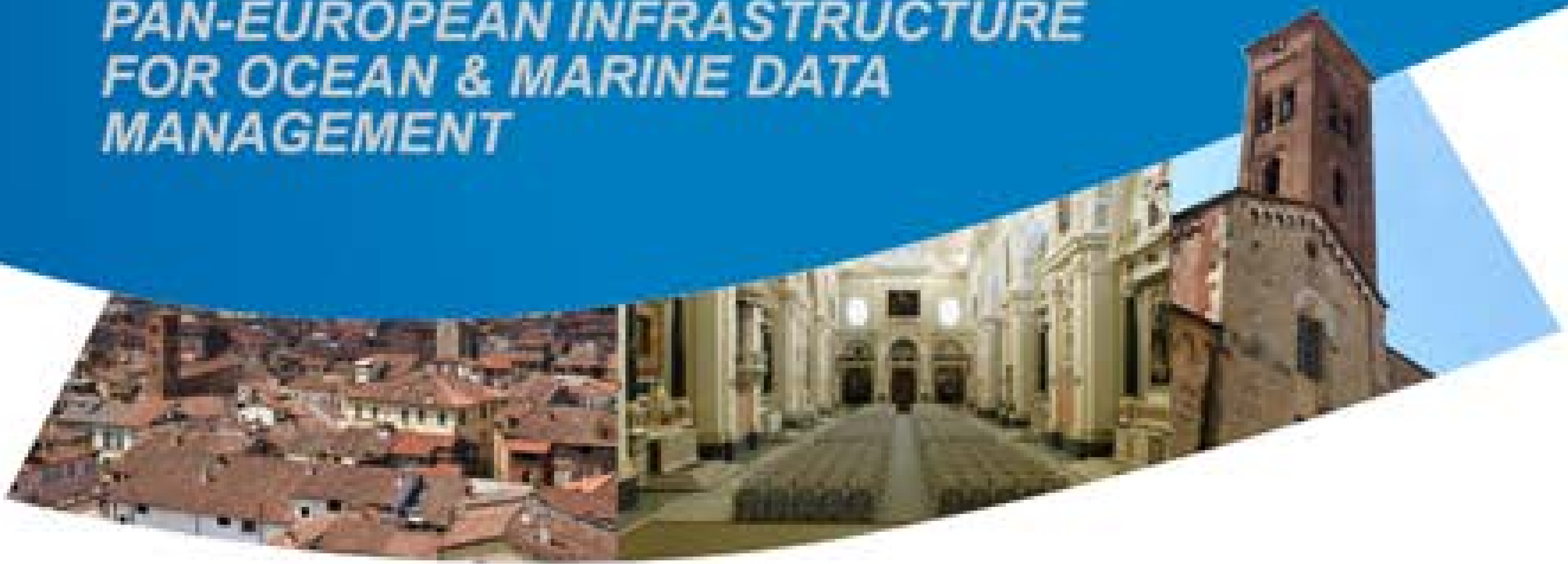




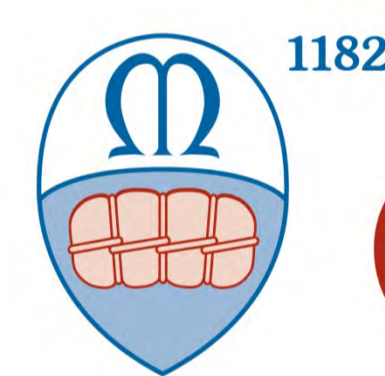
SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE  
FOR OCEAN & MARINE DATA  
MANAGEMENT



# IMDIS 2013

International Conference on Marine Data and Information Systems



Camera di Commercio  
Lucca



## Lucca 23-25 Sept. 2013

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## Sunday 22, September 2013

02.00 pm - 06.00 pm Registration in San Romano

## Monday 23, September 2013

08.30 am - 09.30 am Registration in San Romano Installation of posters

09.30 am - 09.35 am Welcome by Michele Fichaut  
09.35 am - 10.00 am Welcome by authorities

10.00 am - 10.10 am Introduction to the conference, structure and objectives and practical information Giuseppe Manzella

**10.10 am - 10.30 am Keynote IMDIS2013 Walter Munk** 1: Measure, 2: Measure, 3: Measure

**10.30 am - 11.00 am Coffee Break Posters session**

**Session 1**  
**Geo-information management: exchange, processing and interactive heterogeneous sources; federation and integration; network services and technologies**  
**Chair: Dick Schaap**

11.00 am - 11.30 am Key note presentation Michèle Fichaut, Dick M. A. Schaap and Gilbert Maudire. SeaDataNet – Second phase achievements

11.30 am - 11.50 am Presentation 2 Adam Leadbetter, Robert Arko, Cynthia Chandler and Roy Lowry. Linked Data: An Oceanographic Perspective

11.50 am - 12.10 pm presentation 3 Helen Glaves, Stephen Miller and Roger Proctor. Ocean Data Interoperability Platform (ODIP): developing a common framework for marine data management on a global scale

12.10 pm - 12.30 pm presentation 4 Catherine Borremans Management of events, samples, videos and data generated by deep-sea submersibles

**12.30 pm - 02.00 pm lunch break**

02.00 pm - 02.15 pm presentation 5 Simona Simoncelli, Christine Coatanaon, Örjan Bäck, Serge Scory, Helge Sagen, Devrim Tezcan, Dick Shaap, Reiner Schlitzer, Sissy Iona, Michèle Fichaut and Marina Tonani. TEMPERATURE AND SALINITY HISTORICAL DATA COLLECTIONS FOR THE EUROPEAN MARGINAL SEAS: AGGREGATION AND QUALITY ASSESSMENT PROCEDURES

02.15 pm - 02.30 pm presentation 6 Sylvie Pouliquen and And Myocean In Situ Tac Partners MyOcean In-Situ Thematic Center: A service for operational Oceanography

02.30 pm - 02.45 pm presentation 7 Leen Vandepitte, Filip Waumans, Lennert Tyberghein, Bart Vanhoorne and Francisco Hernandez Marine biogeographic data in EurOBIS: assessing their quality, completeness and fitness for use

02.45 pm - 03.00 pm presentation 8 Peer C. Brauer and Wilhelm Hasselbring. PubFlow: a scientific data publication framework for marine science

03.00 pm - 03.15 pm presentation 9 Enrico Boldrini, Stefano Nativi and Dick M. A. Schaap. INSPIRE compliant international standards for the SeaDataNet marine metadata

03.15 pm - 03.30 pm presentation 10 Roger Proctor, Kim Finney and Sebastien Mancini. Vocabulary enhancements for the Australian Ocean Data Network

**03.30 pm - 04.00 pm coffee break Posters session**

04.00 pm - 04.15 pm presentation 11 Jonathan Hodge and Nicholas John Car From silos to systems: using standardised services and Linked Data methodologies to augment government and research information systems

04.15 pm - 04.30 pm presentation 12 Suzanne Carbotte, Robert Arko, Vicki Ferrini, Karen Stocks, Stephen Miller, Andrew Maffei, Cynthia Chandler, Shawn Smith and Mark Bourassa. Rolling Deck to Repository (R2R): Working with International Partners to Improve Data Discovery and Access

04.30 pm - 04.45 pm presentation 13 Steven Worley, Scott Woodruff, Eric Freeman and Shawn Smith ICOADS the Global Marine Surface Reference Dataset

04.45 pm - 05.00 pm presentation 14 Klaas Deneudt, Hans Mose Jensen, Bart Vanhoorne, Leen Vandepitte, Simon Claus and Francisco Hernandez Making SeaDataNet more fit for handling biological data

05.00 pm - 05.15 pm Presentation 15 Thomas Loubrieu, Vincent Claverie, Tony Jolibois, Rémi de Dianous, Laia Romero, Antoine Bon, Mickael Treguer, Jon Blower, Guy Griffiths, Oscar Cases and Joan Sala MyOcean Central Information System

05.15 pm - 05.30 pm presentation 16 Marina Tonani, Simona Simoncelli, Alessandro Grandi and Nadia Pinarði New gridded climatologies, from in-situ observations, for the Mediterranean Sea

## Tuesday 24, September 2013

Marine environmental data bases: infrastructures and data access systems; Coastal and deep sea operational oceanography metadata/data systems; Physical and bio-chemical databases for climate studies; Geophysical and geological metadata/data systems			
<b>Session 2</b>		<b>Chair: Cindy Chandler, Robert Arko</b>	
09.00 am - 09.20 am	presentation 1	Hjalte Parner	ICES Report on Ocean Climate (IROC) - Online
09.20 am - 09.40 am	presentation 2	Donatella Castelli, Pasquale Pagano, Leonardo Candela and Gianpaolo Coro.	The iMarine Data Bonanza: Improving Data Discovery and Management through an Hybrid Data Infrastructure
09.40 am - 10.00 am	Presentation 3	Paolo Diviacco, Alessandro Busato, Marie-Paule Corre, Karien Decawer, Marc Nokin, Serge Scory, Jean-Marc Siquin, Jordi Sorribas and Yvan Stojanov	Bridging the gap between data and metadata: looking backward at what happened during a survey: the Eurofleets Automatic Reporting System (EARS)
10.00 am - 10.20 am	Presentation 4	Anne Che-Bohnenstengel and Friedrich Nast	Modernised Cruise Summary Reports Management, in particular with a Link to Data
<b>10.20 am - 11.00 am</b>	<b>Coffee Break</b>	<b>Posters session</b>	
11.30 am - 11.50 am	presentation 5	Vega Forneris, Cristina Tronconi, Gianluca Volpe, Simone Colella, Bruno Buongiornoardelli, Andrea Pisano and Rosalia Santoleri	The CNR-ISAC Informatics Infrastructure for the Satellite Climatological and Oceanographic data: production, harmonization and dissemination in Interoperability Frameworks
11.50 am - 12.10 pm	presentation 6	Helen Glaves and Dick Schaap.	Geo-Seas: delivering harmonised marine geoscience data on a European scale
12.10 pm - 12.30 pm	presentation 7	Stéphane Tarot, Sarah Guibert, Yann Kerr and Carole Larigauderie	Data management at the CATDS-PDC, the operational processing center for high level data of the SMOS satellite
<b>12.30 pm - 02.00 pm</b>	<b>lunch break</b>		
02.00 pm - 02.15 pm	presentation 8	Antonio Novellino, Giuseppe Manzella, Dick Schaap, Patrick Gorringer, Lesley Rickards and Sylvie Pouliquen.	EMODNet – Physical Parameters
02.15 pm - 02.30 pm	presentation 9	Matteo Vinci, Alessandra Giorgetti and Alberto Brosich	New EU efforts to assess the state of the marine environment: the EMODnet Chemistry pilot project
02.30 pm - 02.45 pm	presentation 10	Marcia Moreno-Báez, Vicente Obregón-Noriega and Octavio Aburto-Oropeza	DataMARES: Marine Access Repository for the Gulf of California, Mexico
02.45 pm - 03.00 pm	presentation 11	David March, Sebastian Lora, Joan Pau Beltrán, Kristian Sebastian, Sonia Gómara and Joaquín Tintoré.	Data Management and applications at SOCIB
03.00 pm - 03-15 pm	presentation 12	Toru Suzuki, Masayoshi Ishii, Toshiya Nakano, Shoichi Kizu, Hiroyuki Yoritaka, Akihiro Seta, Kanako Sato, Yugo Shimizu, Ken-Ichi Amaike, Toshio Suga and Yutaka Michida	XBT Data Management and Quality Control in Japan
03-15 pm - 03.30 pm	presentation 13	Johannes Melles and Rainer Lehfeldt	The German Marine Data Infrastructure (MDI-DE)
<b>03.30 pm - 04.00 pm</b>	<b>coffee break</b>	<b>Posters session</b>	
04.00 pm - 04.15 pm	presentation 14	Marcin Wichorowski and Sławomir Sagan.	Integrated Ocean Data and Information Management System Oceanographic Data Center of IO PAN
04.15 pm - 04.30	presentation 15	Loic Petit de La Villeon, Thierry Delcroix, Gael Alory, Fabienne Gaillard and Magali Krieger	GOSUD: Global Ocean Surface Underway Data From gathering underway data to providing high quality delayed mode data
04.30 pm - 04.45 pm	Presentation 16	Isaac Gertman, Yevgeniya Krivenko, Tal Ozer, Vladimir Belokopytov, Andrey Ingerov and Alexey Khaliulin	Regional project (PERSEUS) oriented system for storage and operative exploration of Mediterranean and Black Sea cast data.
04.45 pm - 05.00 pm	presentation 17	Devrim Tezcan, Volodymyr Myroshnychenko, Elif Yilmaz, Baris Salihoglu, Zahit Uysal and Ahmet Kideys	Monitoring Long Term Variability in the Eastern Mediterranean
<b>Side Event</b>	<b>Organised by SeaDataNet and Historical Oceanography Society</b>	<b>Chair: Nadia Pinardi</b>	
06.00 pm - 07.30 pm	The Walter Munk contribution to ocean science		
<b>08.00 pm</b>	<b>Social Dinner</b>		

## Wednesday 25, September 2013

<b>Session 3</b>	<b>Data Services in ocean science: Standards and quality-assurance issues; Services and Visualisation tools; User oriented services.</b>		<b>Chair: Lesley Rickards</b>
09.00 am - 09.20 am	presentation 1	Cynthia Chandler, Sergey Konovalov, Hernan Garcia, Reiner Schlitzer, Laure Devine, Gwen Moncoiffé, Toru Suzuki, Alex Kozyr and Greg Reed.	IODE Data Quality Flag Scheme
09.20 am - 09.40 am	presentation 2	Simon Claus, Francisco Souza Dias, Nathalie De Hauwere, Bart Vanhoorne and Francisco Hernandez	Marine Regions: towards a standard for georeferenced marine names
09.40 am - 10.00 am	Presentation 3	Ward Appeltans, Peter Pissierssens, Gianpaolo Coro, Angela Italiano, Pasquale Pagano, Anton Ellenbroek and Tom Webb.	Trendlyzer: a Long-Term Trend Analysis on Biogeographic Data
10.00 am - 10.20 am	Presentation 4	Alexander Barth, Charles Troupin, Aida Alvera-Azcárate and Jean-Marie Beckers	Variational data analysis for generating ocean climatologies (DIVA) and web-based distribution of data products (OceanBrowser)
<b>10.20 am - 11.00 am</b>	<b>Coffee Break</b>	<b>Posters session</b>	
11.30 am - 11.50 am	presentation 5	Reiner Schlitzer, Michael Menzel and Stephan Heckendorff	A new API for accessing ODV data collections from C++ and Java
11.50 am - 12.10 pm	presentation 6	Jean-Marc Sinquin, Jordi Sorribas and Benoit Loubrieu.	GLOBE 3D : an new 3D toolset for Geosciences data processing
12.10 pm - 12.30 pm	presentation 7	Catherine Satra Le Bris, Erwann Quimbert, Mickael Treguer and Abdelaziz Louarit	Sextant: the French Spatial Data Infrastructure for Marine Environment
<b>12.30 pm - 02.00 pm</b>	<b>lunch break</b>		
02.00 pm - 02.15 pm	presentation 8	Cynthia Chandler, Robert Groman, Dicky Allison, Peter Wiebe and David Glover	One Approach to Ensuring Long-term Access to Ocean Research Data
02.15 pm - 02.30 pm	presentation 9	Giorgio Santinelli, Fedor Baart, Gemma Ramaekers, Erik-Jan Vos	Coastviewer: a tool to enable the visualization of marine and coastal data
02.30 pm - 02.45 pm	presentation 10	Laurence Crosnier, Joel Dorandeu, Remi De Dianous, Vincent Claverie and Thomas Loubrieu	The MyOcean Product Database Management
02.45 pm - 03.00 pm	presentation 11	Stavros Stylianou, George Zodiatis, George Galanis and Andreas Nikolaidis	Implementation of a live access server for the management of wave energy data in the Eastern Mediterranean
03.00 pm - 03.15 pm	presentation 12	Marco Tampucci, Massimo Martinelli, Davide Moroni, Gabriele Pieri, Ovidio Salvetti and Paolo Villa	A Proactive System for Oil Spills and Marine Environment Monitoring
03.15 pm - 03.30 pm	presentation 13	Leoni Adams, Dan Lear, Charly Griffiths and Becky Seeley	Marine Social and Economic Data - the UK perspective
<b>03.20 pm - 04.00 pm</b>	<b>coffee break</b>	<b>Posters session</b>	
<b>Session 4</b>	<b>Services for Users and Education: Historical evolution in data collection and management; Tools for dissemination; Test bed development for educational purposes</b>		<b>Chair: Giuseppe Manzella</b>
04.00 pm - 04.15 pm	presentation 1	Benjamin Pfeil, Olsen Are, Dorothee Bakker, Steven Hankin, Kevin O'brien, Karl Smith, Alex Kozyr, Christopher Sabine, Maciej Telszewski and Michael Diepenbroek	Surface Ocean CO2 Atlas (SOCAT) Version 2 – a showcase for transparent data management and international collaboration
04.15 pm - 04.30 pm	presentation 2	Vittorio Barale	European Atlas of the Seas: Marine & Maritime Information for Science and Society
04.30 pm - 04.45 pm	presentation 3	Lesley Rickards, Taco De Bruin, Neil Holdsworth, Hjalte Parner, Sjur Ringheim Lid and Garry Dawson	The ICES Data Type Guidelines and their place and role in the profusion of guidelines, manuals, standards, cookbooks and best practice.
04.45 pm - 05.00	presentation 4	Gennady Matishov, Sergey Berdnikov, Valery Kulygin and Natalia Yaitskaya.	Geoinformation Systems, Databases, and Climatic Atlases of the Sea of Azov, Black Sea, and the Caspian Sea
<b>05.00 pm - 06.00 pm</b>	<b>Discussion and Conclusions by Session Chairs</b>		

# Poster Sessions

Session 1: Geo-information management: exchange, processing and interactive heterogeneous sources; federation and integration; network services and technologies

36	Lowry	UK	Roy Lowry, Adam Leadbetter and Matteo Vinci. Semantically-enhanced Aggregation of SeaDataNet Data
37	Kozyr	US	Alex Kozyr. CDIAC Data Management Support for Ocean Carbon Dioxide Measurements
47	Keeley	US	Robert Keeley and Reiner Schlitzer. Modular Information Content for Ocean Data Systems
54	Pagnani	Italy	Maureen Pagnani, Robert Huber and Richard Lampitt. FixO3 : The next phase of Open Ocean observatory Data Management Harmonisation
56	Jolibois	France	Tony Jolibois, Vincent Claverie, Thomas Loubrieu, Laia Romero, Jon Blower, Rémi De-Dianous and Guy Griffiths. Data access services in MyOcean: needs, technical challenges and implementation
62	Cotton	UK	David Cotton, Terry Allen and Lesley Rickards. MEDIN - A UK Partnership for Managing Marine Data and Information
71	Olive	Spain	Joan Olive, Jordi Sorribas, Anna Vetrano, Marc Nokin and Mireno Borghini. CTD calibration description using SensorML files
74	Pinto	Denmark	Carlos Pinto and Neil Holdsworth. ICES Data portal, a single entry point to marine knowledge
80	Coro	Italy	Gianpaolo Coro, Antonio Gioia, Pasquale Pagano and Leonardo Candela. A Service for Statistical Analysis of Marine Data in a Distributed e-Infrastructure
81	Iona	Greece	Sissy Iona, Stavroula Balopoulou, Pelopidas Karagevrekis and Angelo Lykiardopoulos. The HNODC Data & Information Management Services: Description & Recent Upgrades
86	McCann	US	Mike McCann and Julio Harvey. STOQS: The Spatial Temporal Oceanographic Query System
93	Gatti	Argentina	Joaquin Gatti, Juan Arroqui, Santiago Trigo, Ana Baldoni, Graciela Molinari and Raúl Guerrero. ALBATROSS: Retrieval, processing and visualization of INIDEP's oceanographic data and products

97	Moreno-Báez	US	Marcia Moreno-Báez, Victoria Mariel Jimenez Esquivel and Octavio Aburto-Oropeza. A PARTICIPATORY FRAMEWORK TO COLLECT DATA FOR UNDERSTANDING THE LINKAGES OF COASTAL AND MARINE RESOURCES AND HUMAN USE
98	Reed	Australia	Greg Reed. A Quality Management Approach to the Delivery of Marine Data and Services
99	Ivanković	Croatia	Damir Ivanković, Ivan Vucic and Vlado Dadić. Using GeoServer and spatial database for receiving and analyzing of georeferenced data
112	Kottmann	Germany	Renzo Kottmann, Aleksandar Pop Ristov, Julia Schnetzer, Antonio Fernandez-Guerra and Frank Oliver Gloeckner. Bridging the gap between marine environmental and molecular data: The Micro B3 Information System
121	Pannocchi	Italy	Andrea Pannocchi, Lucía Arranz and Alberto Hernández. Sub-surface Underway Data Validation at IEO Data Center
124	Behnken	Germany	Andree Behnken, Robert Huber, Christoph Waldmann, Mikhael Kononets, Anders Tengberg, Per Hall and Henrik Stahl. Using OGC standards (SOS, O&M) to standardize data flow from cabled marine observatories to the PANGAEA data archive
125	Lykiardopoulos	Greece	Angelo Lykiardopoulos, Konstantinos Kalkavouras, Flavian Gheorghe and Sissy Iona. Monitoring services in the framework of SeaDataNet II Project
146	Rickards	UK	Lesley Rickards, Jean-Bernard Minster and Mustapha Mokrane. Progress in developing the ICSU World Data System
166	Grande	Italy	Valentina Grande. COCONET PROJECT (Towards COast to COast NETWORKS of marine protected areas) - the architecture of a common Geodatabase for Marine Data Management and synthesis
Session 2: Marine environmental data bases: infrastructures and data access systems; Coastal and deep sea operational oceanography metadata/data systems; Physical and bio-chemical databases for climate studies; Geophysical and geological metadata/data systems			
11	Poster	Germany	Gisbert Breitbach and Hajo Krasemann. A new Approach in Data Management for an Integrated Coastal Observation System

14	Coatanoan	France	Christine Coatanoan, Cécile Cabanes, Antoine Grouazel and Victor Turpin. CORA : IN-SITU RE-QUALIFIED DATASET AT THE CORIOLIS DATA CENTER
15	Morales Giraldo	Colombia	David Fernando Morales Giraldo, Jose Eduardo Fuentes Delgado and Julio Bohorquez. An Information System for Monitoring Coastal Erosion at Colombia – COSTERO
35	Lavrova	Russia	Olga Lavrova, Evgeny Loupian, Marina Mityagina, Ivan Uvarov and Tatiana Bocharova. See the Sea - Multi-User Information System Ocean Processes Investigations Based on Satellite Remote Sensing Data
38	Diviacco	Italy	Paolo Diviacco, Alessandro Busato, Helen Glaves and Dick Schaap. Bridging the gap between data and metadata (Part 1): a novel approach in Metadata, Data models and Semantics emerging from addressing the issues of seismic data within the Geo-Seas project.
39	Moussat	France	Eric Moussat, Benoît Loubrieu and Thierry Schmitt. Harmonization of Digital Terrain Model production in EU distributed infrastructures
41	Zananiri	Greece	Irene Zananiri, Dimitris Mitropoulos, Vaggelis Zimianitis, Chryssanthi Ioakim, Vassilis Papadopoulos and George Efthimiou. MARINE GEOLOGY DATA ACCESSIBILITY IN THE EUROPEAN FRAMEWORK: THE I.G.M.E. DATABASE AND ACCESS SERVICES AFTER ITS PARTICIPATION IN THE GEO-SEAS PROJECT
53	Alcorn	Ireland	Trevor Alcorn and Eoin O'Grady. Opening up Irish marine data
67	Hendriksen	Netherlands	Gerrit Hendriksen, Gerard van der Kolff and Kees Borst. Towards Open Monitoring Data within marine monitoring projects
75	Stefanov	Bulgaria	Asen Stefanov and Atanas Palazov. Querying structured and unstructured data - combined approach
89	Gies	Germany	Tobias Gies, Kai-Christian Soetje and Mathias Luecker. BSH contribution to the Copernicus Marine Core Service "MyOcean": Northwest-Shelf in-situ observations



91	Almeida	Portugal	Sara Almeida, Rui Baptista, Ilmer Golde, Ana Lopes and Ana Saramago. A contribution to the Marine Observatory network
104	Dezeljin	Slovenia	Damir Dezeljin and Branko Cermelj. Centralization of marine datasets at Marine Biology Station, NODC for Slovenia
111	Solovyev	Russia	Vladimir Solovyev, Alexander Ostrovskii and Andrey Zatsepin. The Aqualog profiler is measuring platform for an ocean observatory.
113	Kulesza	Poland	Przemysław Kulesza and Michał Wójcik. Open Source Software as an Efficient Distributed Infrastructure Stack for GIS Data Processing and Dissemination
119	Koppe	Germany	Roland Koppe, Ana Macario and Manida Scientific Team. MaNIDA: An integrated national approach to scientific information management and innovative use of information assets' relationships
122	Malde	Norway	Ketil Malde, Tomasz Furmanek and Esmael M. Hassen. A data storage for generic and heterogenous scientific data
150	Meola	France	Bruno Meola and Chloë Webster. MAPAMED, the database on Marine Protected Areas in the Mediterranean Sea
152	Spinu	Romania	Alina Spinu, Luminita Buga, Razvan Mateescu, Laura Alexandrov and Emanuela Mihailov. Integration of oceanographic databases into the Geographic Information System (GIS) as support for Marine Spatial Planning. Case of Romanian Littoral
157	Glaves	UK	Helen Glaves and Alan Stevenson. EMODNET-Geology: assembling and disseminating marine data for European seabed mapping
158	De Bruin	Netherlands	Taco De Bruin, Ronald De Koster and Peter Thijsse. The Wadden Sea Long Term Ecosystem Research (WaLTER) project: Using the SeaDataNet infrastructure to provide access to integrated environmental and socio-economic data from the Dutch Wadden Sea
161	Sagarminaga	Spain	Yolanda Sagarminaga and Ibon Galparsoro. Development of ITSASGIS-5D: seeking interoperability between Marine GIS layers and scientific multidimensional data using open source tools and OGC services for multidisciplinary research.

168	Allison	US	Dicky Allison, Robert Groman, Cynthia Chandler, Shannon Rauch, Danie Kinkade, Peter Wiebe, David Glover and Charlton Galvarino. Are the Data Really Available?
169	Tikka	Finland	Kimmo Tikka, Guy Hällfors, Seija Hällfors, Maija Huttunen, Riitta Olsonen and Mikko Virkkunen. Management of taxonomic species and observational data – case Baltic Sea phytoplankton
172	Carrara	Italy	Paola Carrara, Alessandro Sarretta, Alessandra Giorgetti, Maurizio Ribera D'Alcalà, Alessandro Oggioni and Elena Partescano. An interoperable infrastructure for the Italian Marine Research
175	Dadić	Croatia	Vlado Dadić, Damir Ivanković, Josip Bašić and Ivan Vučić. Information system of marine environment indicators in Croatia
Session 3: Data Services in ocean science: Standards and quality-assurance issues; Services and Visualisation tools; User oriented services.			
176	Diggs	US	Stephen Diggs and Bernadette Sloyan. GO-SHIP: building a time series of a suite of ocean properties
12	Vyazilov	Russia	Evgeny Vyazilov, Denis Melnikov and Nikita Chunyaev. Analytical tools for ESIMO
29	Viazilova	Russia	Natalia Viazilova. Storm activity over North Atlantic with ESIMO analytical tools
57	Raymond	US	Lisa Raymond, Cyndy Chandler, Adam Leadbetter, Ed Urban, Peter Pissierssens and Linda Pikula. Publishing and Citing Ocean Data
63	Kim	Korea	Sung-Dae Kim, Hyuk-Min Park, Jin-Hee Lee, Sang-Ho Baek and Soo-Young Park. Establishment of an Operational Data Management System for Korea Ocean Prediction System
66	Zhuk	Cyprus	Elena Zhuk, George Zodiatis, Stavros Stylianou and Robin Lardner. A WEB-BASED GIS FOR OIL SPILL PREDICTION
68	Hendriksen	Netherlands	Gerrit Hendriksen, Sharon Tatman, Willem Stolte and Fedor Baart. Enabling connectivity between data sources within the VECTORS project
72	Alyautdinov	Russia	Ali Alyautdinov, Ilya Kalinkin and Vladimir Semin. "Up-Grade BS-Scene" and "CaspInfo" projects as examples of implementing standards provided by SeaDataNet and supported by INSPIRE

73	Osborne	UK	Mike Osborne. The Application of Marine Data Management in Ports using Ocean Database and GIS
76	Madelaine	France	Jacques Madelaine, Gilles Domalain and Wilbert Marin Soto. ThemaMap: from data to maps
77	Weatherall	UK	Pauline Weatherall and Roy Lowry. General Bathymetric Chart of the Oceans (GEBCO) - Global Bathymetric Data Sets
83	De Cauwer	Belgium	Karien De Cauwer, Yvan Stojanov, Jordi Sorribas, Paolo Diviaco, Marie-Paule Corre, Alessandro Busato, Serge Scory, Jean-Marc Sinquin and Marc Nokin. Semantic interoperability on board: ongoing developments for EARS event logging
92	Foden	UK	Jo Foden, David Mills, Kathryn Keeble and Simon Keeble. The EMECO Datatool: an online assessment and reporting system for co-production of environmental assessments of shared marine waters..
106	Springer	Germany	Pina Springer, Hela Mehrtens, Dirk Fleischer, Carsten Schirnack and Andreas Czerniak. Kiel Data Management Infrastructure for Marine Sciences
114	Alenius	Finland	Pekka Alenius, Kimmo Tikka and Riikka Hietala. Near real-time quality data from ships to land
115	Kõuts	Estonia	Tarmo Kõuts, Madis-Jaak Lilover and Kaimo Vahter. On-line ice resistance survey for the ships supporting winter navigation in ice channels of the Baltic Sea
116	Troupin	Belgium	Charles Troupin, Alexander Barth, Jean-Marie Beckers and Ananda Pascual. Application of the Data-Interpolating Variational Analysis (DIVA) to sea-level anomaly measurements in the Mediterranean Sea
126	Partescano	Italy	Elena Partescano, Alberto Brosich and Alessandra Giorgetti. A system for managing metadata using XML format
137	Vetrano	Italy	Anna Vetrano, Alessio Bechini, Catia Chiappini and Katrin Schroeder. Browsing and Selection of CTD/XBT Data through Open-Source GIS Clients
149	Godin	Ukraine	Eugeny Godin, Alexey Khaliulin, Andrey Ingerov and Elena Zhuk. On-line quality control service of MHI NASU

162	Pantazi	Greece	Maria Pantazi, Vassiliki Vassilopoulou, Yiannis Issaris, Athina Kokkali, Maria Salomidi, Alexandros Frantzis, Jacob Fric and Aliko Panou. Addressing uncertainty through data quality issues in environmental assessments to support improved decision making
165	Picone	Italy	Marco Picone, Gabriele Nardone and Francesco Lagona. Data validation in italian wave metric datasets
170	Chandler	US	Cynthia Chandler, Andrew Maffei, Laura Stolp, Cynthia Sellers, Elizabeth Coburn, Tim Thiel and Robert Arko. R2R Science Eventlogger: Supporting Data Interoperability with Controlled Vocabularies
Session 4: Services for Users and Education: Historical evolution in data collection and management; Tools for dissemination; Test bed development for educational purposes			
44	Eversley	Barbados	Ann-Marie Eversley. Caribbean Marine Atlas
51	Rickards	UK	Lesley Rickards, Elizabeth Bradshaw and Jenny Andrew. Rescue of historical UK sea level charts and ledgers – creation of Open Educational Resources (OERs)
58	Abbamondi	Italy	Chiara Abbamondi, Valeria Andreotti, Carmelo Angelica, Cira Buonocore, Sarah Ciancimino, Lorena Corrado, Marinella Delauro, Diana Diluccio, Federica Ferrigno, Angela Frunzo, Tiziana Laurenza, Maddalena Leone, Alessandra Mirrione, Federica Pessini, Luigia Riefolo, Valentina Roviello, Stefano Ruggieri, Annalina Scotto D'Antuono, Fabrizio Serrentino, Andrea Sgrosso, Marina Sposato, Angelamaria Tobia, Costanza Tedesco, Andrea Celentano and Giuseppe Manzella. Collaborative Knowledge - Building
78	Delgado	Belgium	Claudia Delgado and Peter Pissierssens. OceanTeacher goes global: The OceanTeacher Global Classroom
79	Bayley	UK	Dan Bayley and Amy Ridgeway. Joint Nature Conservation Committee Marine Protected Areas Interactive Online Mapper
82	Lagring	Belgium	Ruth Lagring, Karien De Cauwer and Serge Scory. Back to the sea of the past to evaluate the status of today: Integration and valorisation of historical data

84	Karlson	Sweden	Dr Bengt Karlson, Lotta Fyrberg, Orjan Back, Arnold Andreasson, Lars Hansson, Malin Molin and Ann-Turi Skjevik. Nordic Microalgae – an information system for aquatic microalgae
90	Shein	US	Karsten Shein, John Stachniewicz, L. Dewayne Cecil and Steve Ansari. A Climate Data Access and Visualization Tool for Marine Ecosystem Managers
95	Proctor	Australia	Roger Proctor, Peter Oke and Uwe Rosebrock. Australia's marine virtual laboratory
109	Zhuk	Cyprus	Elena Zhuk, Alexey Khaliulin, Andrey Ingerov and Eugeny Godin. Web interface for the Black Sea database with GIS functionality
136	Gordon	UK	Kathleen Gordon, Andrew Matthews and Lesley Rickards. Celebrating 80 years of the Permanent Service for Mean Sea Level (PSMSL)
148	Bel Hassen	Tunisia	Malika Bel Hassen, Nouha Barraaj, Soumaya Lahbib and Saida Messaoudi. TUNISIAN COASTAL MARINE ATLAS
159	Hayes	Cyprus	Daniel Hayes, George Zodiatis, Dick Schaap, Claudia Coman, Andria Karaolia, Vassos Vassiliou, Costas Vrioni and Iacovos Constantinou. SeaMobile apps – marine data and forecast services available on the mobile devices