**Theme Session R: Environmental and fisheries data management, access, and integration**

*Conveners: Christopher Zimmermann (Germany), Helge Sagen (Norway), and Peter H. Wiebe (USA)*

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<th>Authors, Title, and Keywords</th>
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| **R:01** | **Authors:** Amos Barkai, Karl Geggus, Fatima Felaar, Zahrah Dantie, Arno Hayes, and Daniel Glago  
**Title:** Olfish Dynamic Data Logger: A complete, solution for the recording, reporting and transmission of commercial fishing data.  
**Keywords:** Elog, Fishing data, electronic logbook, Olfish, VMS |
| **R:02** | **Authors:** Robert C. Groman, Cynthia L. Chandler, M. Dicky Allison, Peter H. Wiebe, and David M. Glover  
**Title:** Discovery, access, interoperability, and visualization features of a Web interface to oceanographic data  
**Keywords:** |
| **R:03** | **Author:** J. R. Keeley  
**Title:** The IODE / JCOMM standards process  
**Keywords:** standards, best practices, JCOMM, IODE |
| **R:04** | **Authors:** Marta Coll, Simone Libralato, Sergi Tudela, Isabel Palomera, and Fabio Pranovi  
**Title:** Evaluating ecosystem overfishing at a global scale using loss in secondary production  
**Keywords:** fishing effects; ecosystem-approach to fisheries; Loss in production; LME; open sea. |
| **R:05** | **Author:** Pekka Alenius  
**Title:** Cruise planning and reporting in FIMR – an integrated system for information and data  
**Keywords:** |
| **R:06** | **Authors:** Bernard A. Megrey and S. Allen Macklin  
**Title:** Pacific-wide marine metadata discovery, management and delivery: The PICES Metadata Federation  
**Keywords:** metadata, data sharing, ecosystems, informatics |
<p>| <strong>R:08</strong> | <strong>Withdrawn</strong> |</p>
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| R:09  | **Authors**: Jason Hartog, Toby Patterson, Klaas Hartmann, Paavo Jumppanen, Scott Cooper, and Russell Bradford  
**Title**: An integrated database system for the management of large volumes of tagging data  
**Keywords**: electronic tags, relational database, information management, environmental data, open source technology. |
| R:10  | **Authors**: E. Vanden Berghe, T. Rees, N. Bailly, and M. Knazek  
**Title**: Quantifying the effect of quality control of taxonomic names in OBIS  
**Keywords**: |
| R:11  | **Authors**: F. J. Grassle, E. Vanden Berghe, M. Costello, and F. L. Silveira  
**Title**: The ocean biogeographic information system: past, present and future  
**Keywords**: |
| R:12  | **Authors**: T. Pauly, J. Hemer, M. Wilson, W. Gillespie, and J. Corbett  
**Title**: Powerful integration and visualization of complex fisheries and environmental data using Eonfusion  
**Keywords**: |
| R:13  | **Authors**: Valérie Harscoat, Emilie Leblond, Mickael Treguer, and Patrick Berthou  
**Title**: A GIS interface to the French Fisheries Information System of Ifremer  
**Keywords**: geographic information system, fisheries, indicators, integrated database |
| R:14  | **Authors**: Tomaso Fortibuoni, Otello Giovanardi, Simone Libralato, Saša Raicevich, and Cosimo Solidoro  
**Title**: Integrating historical naturalists’ descriptions and statistical-scientific data to describe changes in fish assemblages over the last two centuries in the Northern Adriatic Sea (Mediterranean)  
**Keywords**: ecological history, naturalists’ description, landing statistics, data integration, Adriatic Sea. |
| R:15  | **Authors**: M. Peña, S. Georgarakos, and G. Boyra  
**Title**: Visualisation of the clustering of acoustic echotrails using Topology Preserving Mapping. Application to juvenile anchovy in the Bay of Biscay  
**Keywords**: acoustics, fish school identification, anchovy, Bay of Biscay, juveniles, Self-Organizing Map, Principal Component Analysis, unsupervised. |
| R:16  | **Authors**: Emilie Leblond, Patrick Berthou, Martial Laurans, Patrice Woerther, Loïc Quemener, and Thomas Loubrieu  
**Title**: The Recopesca project: a new example of participative approach to collect in-situ environmental and fisheries data using fisheries vessels of opportunity  
**Keywords**: fishing vessels, participative approach, fishing effort, catches, environmental parameters, temperature, salinity, ecosystem-based approach |
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| R:17 | **Authors:** J. Hamel, S. Hurtubise, and B. Pelchat  
**Title:** Towards interoperability and cooperation for the sustainable management of the St. Lawrence ecosystem  
**Keywords:** interoperability, Web data services, data access, observatory |
| R:18 | **Authors:** Lars H. Stien, Trygve Gytre, Thomas Torgersen, Helge Sagen, and Tore Kristiansen  
**Title:** A system for online assessment of fish welfare in aquaculture  
**Keywords:** Fish welfare, CTD, GPRS, expert software |
| **PowerPoint Presentation** | **Authors:** Bob Branton, Dan Ricard, and Peter Lawton  
**Title:** Three oceans of data management and beyond, a centre for marine biodiversity biew  
**Keywords:** |
| R:20 | **Authors:** Vincent Badts and Stéphanie Mahévas  
**Title:** Fishery data qualification: a procedure in progress at Ifremer  
**Keywords:** |
| R:21 | **Authors:** Daniel Ricard, Robert M. Branton, Don W. Clark, Stephen J. Smith, and Peter Hurley  
**Title:** Methods for preparation and validation of groundfish population indices based on Fisheries and Oceans Canada research vessel trawl survey data accessible from the Ocean Biogeographic Information System  
**Keywords:** |
| R:22 | **Authors:** P. M. Clement, R. Benjamin, and L. Paon  
**Title:** A data management strategy for multi instrument cruises  
**Keywords:** data management, digital logbook, navigation data, video, images |
| R:23 | **Authors:** Tiffany C. Vance, Scott Cross, Bernard Megrey, Sharon Mesick, and Christopher Moore  
**Title:** GeoFish – visualization and analysis of particle tracking model output for fish and shellfish larvae  
**Keywords:** larval fish, GIS, visualization, particle tracking, circulation model, Bering Sea |
| R:24 | **Authors:** Barbara Berx, Sarah Hughes, and Hjalte Parner  
**Title:** Developing a surface and near-bed temperature and salinity climatology for the North-West European Shelf Seas  
**Keywords:** |
| R:25 | **Authors:** R. ter Hofstede and N. Daan  
**Title:** A proposal for a consistent use of the North Sea IBTS data  
**Keywords:** |
**Keywords:** data quality, misreporting, biodiversity, DATRAS, IBTS, North Sea

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| R:26 | **Authors:** Teunis Jansen, Henrik Degel, Brian Cowan, Mads Dueholm, Ole Skov, Kirsten Håkansson, Josephine Egekvist, and Jørgen Dalskov  
**Title:** FishFrame 5.0: A web based data warehouse application for management, access and integration of fisheries and stock assessment data  
**Keywords:** FishFrame, Fisheries, Stock, Acoustics, Assessment, Data warehouse, Database, Data warehouse, web application, Open source, Data management, Data processing, Raising, Extrapolation, Stock-splitting, Data documentation, Data quality control, Data source, exchange format, DCR |

**Posters**

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| R:07 | **Authors:** Richard Franks, Nicholas Wolff, Bruce MacLeod, David Briggs, and Lewis Incze  
**Title:** A system for rapid data discovery, display, integration and download  
**Keywords:** |
| R:27 | **Authors:** Devine, Laure and Caroline Lafleur  
**Title:** Quality Control of Bottle Data at Institut Maurice-Lamontagne (Department of Fisheries and Oceans Canada)  
**Keywords:** |
| R:28 | **Author:** Todd D. O’Brien  
**Title:** An advanced visualization technique for the quality control of plankton data  
**Keywords:** |
| R:29 | **Authors:** Todd D. O’Brien and Ned Cyr  
**Title:** NMFS-ECHO: A synthesis of baseline ecosystem conditions to facilitate ecological analyses and fisheries management  
**Keywords:** |
| R:30 | **Author:** Glenn Chamberlain  
**Title:** An assessment of sampling protocols, data assembly, and data integration in the Northeast  
**Keywords:** |
| R:31 | **Authors:** Riitta Olsonen, Riikka Hietala, Kimmo Tikka, Pekka Alenius, Juha-Markku Leppänen, and Mikko Virkkunen  
**Title:** A user-friendly web interface to marine data  
**Keywords:** |
| R:32 | **Authors:** Christian von Dorrien and Harry V. Strehlow  
**Title:** Visualising fishery research programmes in Europe  
**Keywords:** |
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| R:33 | **Authors**: Uwe Böttcher and Christian von Dorrien  
**Title**: ODV – A tool to visualise and analyse fishing activities in the Baltic German EEZ  
**Keywords**: |
| R:34 | **Authors**: Bob Branton and Michael Murray  
**Title**: Data management development plan for the ocean tracking network  
**Keywords**: |
| Extended Abstract | **Authors**: Kimmo Tikka, Riitta Olsonen, Riikka Hietala, and Pekka Alenius  
**Title**: An integrated system for marine data management and analysis  
**Keywords**: |
| R:36 | **Withdrawn** |
| R:37 | **Withdrawn** |
| R:38 | **Withdrawn** |
| R:39 | **Authors**: Carlos Pinto, Hans Mose Jensen, and Marilynn Sørensen  
**Title**: ICES EcoSystemData - An integrated solution for ecosystem data  
**Keywords**: |
| R:40 | **Authors**: O.R. Godø, V. Hjellvik, K. Korsbrekke, and D. Tjøstheim  
**Title**: Minimalistic surveys – an answer to the ecosystem approach?  
**Keywords**: |