

42nd International Liège Colloquium on Ocean Dynamics (26-30 April 2010)

Multiparametric observation and analysis of the Sea

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ORAL SESSIONS (Building B7 - "Hall Petits Amphithéâtres")

Monday 26 April

09:00-09:45	Registration	
09:40-09:45	Welcome note	
SESSION 1 : Ocean Sciences		
Session 1.1 – Ocean Science – Chair: K. Larkin		
09:45 - 10:10	Llovel W., Guinehut S., Cazenave A.	Regional variability in sea level over 2002 – 2009 based on satellite altimetry, Argo float data and GRACE ocean mass.
10:10 - 10:35	Poulain P.-M., M. Menna, I. Gertman, G.Zodiatis.	Surface circulation in the eastern Levantine Basin as deduced from satellite-tracked drifters.
10:35 - 11:00	Chu P.C., Sun C., Fan C.	Meridional Overturning Circulation (MOC) Detected from In-Situ and Argo Measurements.
11:00 - 11:25	Coffee	
11:25 - 11:40	Troupin, C., Aristegui, J., Beckers, J.-M., Sangra, P.	High-resolution measurements of an upwelling filament during the CAIBEX campaign.
11:40 - 12:05	Menna M., P.-M. Poulain	Subsurface circulation in the Mediterranean Sea based on Argo data
12:05 - 12:30	Lips U., Lips I., Liblik T, Kikas V, Altoja K.	An analysis of multiparametric observations in the Gulf of Finland (Baltic Sea).
12:30-14:00	Break	

Session 1.2 -- Ocean Science – Chair: A. Alvera-Azcárate		
14:00 - 14:25	Lampitt R.S., Larkin KE, Campell J, Pebody C, Hartman SE, Pagnani M, Gkritzalis A, Ruhl H, Billet DSM	Long-term time-series from the EuroSITES Porcupine Abyssal Plain (PAP) sustained observatory.
14:25 - 14:50	Chu P.C., Fan C., Sun C.	Changes of Heat and Freshwater Contents in World Oceans (1990 – 2009) Identified from In Situ and Argo Measurements.
14:50 - 15:15	Goodman L., Wang Z.	Use of a Small AUV to Examine Fine and Microstructure Physical and Biological Processes.
15:15 - 15:45	Coffee Break & Posters Session	
SESSION 2 Data Quality Assessment		
Session 2.1. -- Data Quality Assessment – Chair: A. Alvera-Azcárate		
15:45 - 16:05	Garel E., V.Pais, O. Ferreira	Practical aspects and data analysis of 2 years-long water quality and current monitoring in an estuary
16:05 - 16:30	Karstensen J., Krahnmann G., Stramma L., Laroche J.	Does resolution matter? Comparison of a glider and ship survey through the Eastern South Pacific oxygen minimum.
16:30 - 16:55	Guinehut S., Coatanoan C, Dhomps AL, Le Traon PY and G. Larnicol	On the use of satellite altimeter data in Argo quality control.
16:55 -17:20	Nechad B., Alvera A., Ruddick K. G.	Time series of MERIS and MODIS Total suspended matter, their reconstruction by DINEOF and validation with autonomous platform data.
17:30 - (...)	Cocktail	

Tuesday 27 April

SESSION 3 Monitoring Systems

Session 3.1 -- Monitoring Systems – Chair: P.-M. Poulain

09:00 - 09:25	Freeland H.	Argo: A decade of success, so what comes next?
09:25 - 09:50	Rio M.H., S. Guinehut, S. Mulet, A.L. Dhomps, G. Larnicol	The GOOP: Global Ocean Observed Products.
09:50 - 10:15	Lampitt R.S., Larkin K.E., Campell J, Pebody C, Hartman SE, Pagnani M, Gkritzalis A, Ruhl H, Gooday AJ, Billett DSM	EuroSITES: Integrating and enhancing Europe's in situ ocean observation
10:15 - 10:45	Coffee Break sponsored by LIQUID ROBOTICS	
10:45 - 11:10	Dufau C.	Satellite Altimeter Products for Regional and Coastal studies.
11:10 - 11:35	Manley J, Trenaman N, Willcox S.	The Wave Glider: Enabling a New Approach to Persistent Ocean Observation and Research.
11:35 - 12:00	Martins I., Vitorino J., Almeida S.	Real time monitoring of Nazare Canyon (W Portugal)
12h00-14h00	Break	

Session 3.2 -- Monitoring Systems – Chair: H. Freeland

14:00 - 14:25	Favali, P.	EMSO an ESFRI large-scale marine infrastructure.
14:25 - 14:50	Bauerfeind E, Bergmann M., Hasemann C., Fahl K., Nöthig E.-M., Klages M., Schewe I, Soltwedel T.	The Arctic deep-sea observatory HAUSGARTEN, results of multidisciplinary investigations since 1999.
14:50 - 15:15	Cardin V, Bensi M, Pacciaroni M, Civitarese G and Gacic M.	The EuroSITES E2M3A Observatory in the Southern Adriatic Sea: a tool to monitor the dense water formation process.
15:15-15:45	Coffee Break & Posters Session	
15:45 - 16:10	Karstensen J., Greiner T J., Lampitt R., Grant F., Priede I.	MODOO: A modular and mobile deep ocean observatory and its application to the Porcupine Abyssal Plain.
16:10 - 16:35	Vivier F. et al.	"Ice-T": an autonomous buoy for real time measurement of sea-ice thickness and heat exchanges at the ocean-ice-atmosphere interface. Current status and future plans.
16:35 - 17:00	Favali, P., Beranzoli, L., Riccobene, G., Pavan, G.	Scientific activities at the NEMO-SN1 cabled observatory.

Wednesday 28 April

SESSION 4 – Data-Model comparison and assimilation

Session 4.1 -- Data-Model comparison and assimilation – Chair: M. Rixen

09:00 - 09:25	Mourre B., Lenartz F., Rixen M.	Combining gliders, satellite SST and ocean models in 3-D Super Ensemble forecasting.
09:25 - 09:50	Schulz-Stellenfleth J, Stanev E, Staneva J.	New tools for ocean observing network assessments applied to water level measurements in the German Bight.
09:50 - 10:15	Barth, A., Alvera-Azcarate, A., Beckers, J.-M., Staneva, J.	Correcting surface winds by assimilating High-Frequency Radar surface currents in the German Bight.
10h15-10h45	Coffee Break & Posters	
10:45 - 11:10	Dréville M., C. Desportes, A. El Moussaoui, N. Ferry, G. Garric, E. Greiner, S. Guinehut, F. Hernandez, G. Larnicol, B. Levier, C. Maraldi, L. Parent, C. Régnier, E. Rémy, M.-H. Rio, and The Mercator Ocean Team	MyOcean Global Ocean analysis and forecasting system and need for new independent data.
11:10 - 11:35	Pascual A, Ruiz S, Bouffard J, Garau B, Buongiorno Nardelli B, Larnicol G and Tintoré J.	A multi-platform experiment for understanding coastal mesoscale and sub-mesoscale processes.
SESSION: Short poster presentations I		
11:35 - 12:00	Kostianoy A., A. Ginzburg, N. Sheremet, V. Kravtsova	
	Ouberdous M.	
	Vaguina I.	
	Ingleby B.	
	Kaed Bey ASK, Connely DP, Harris AJK, Floquet CFA, Tsaloglou MN, Bennett SA, Prien RD, Mowlew MC	
	Yari S., M. Gacic, V. Kovacevic, V. Cardin	
	Perekhodtseva E.	
12h30 - 14h00	Break	

Session 1.3 -- Ocean Science		
Session 1.3 -- Ocean Science -- Chair: Barth A.		
14:00 - 14:25	K.W. Gurgel	Recent developments and applications of HF-radar.
SESSION: Short poster presentations II		
14:25 - 15:00	Stanichny S., Ratner YU, Shokurov M., Barabanov V., Stanichnaya R., Soloviev D., Burdyugov V.	
	Fettweis M., Van den Eyde D., Franken F., Van Lancker V.	
	Zambianchi E.	
	Gildor H., Carlson DF, Fredj E and Rom-Kedar V.	
15h00-17h00	Poster Session with Coffee Break	
20h00	Colloquium Dinner at the "Chateau de Colonster"	

Thursday 29 April

SESSION 3 Monitoring Systems

Session 3.3 -- Monitoring Systems – Chair: R. Wanninkhof

09:00 - 09:25	Ross T, Smith C, Macearchern B.	Co-incident in-situ observations of turbulence and zooplankton with a new biophysical profiler.
09:25 - 09:50	Greenwood N, Sivyer D, Pearce D, Mills D, Keable J, Hull T, Needham N and Lees H.	Operational in situ monitoring for water quality assessments.
09:50 - 10:15	Heinesch B, Aubinet M, Carnat G, Eicken H, Geilfus N.-X, Goossens T., Papakyriakou T., Yernaux M, Tison J-L, B.Delille	Air-sea ice CO2 fluxes measurement with eddy covariance micrometeorological technique.

10h15-10h45 Coffee Break sponsored by LIQUID ROBOTICS

Session 3.3 -- Monitoring Systems – Chair: J. Karstensen

10:45 - 11:10	Testor P.	Gliders as a component of observing systems
11:10 - 11:35	Navarro G, Gutierrez FJ, Diez-Minguito M, Losada MA, Ruiz J.	Temporal and spatial variability of hydrological variables in Guadalquivir River Estuary through a real time telemetry network
11:35 - 12:00	Goffart et al.	Stareso
12:00 - 12:30	Poulain P.-M.	EuroArgo: A Global Ocean Observing Infrastructure.
12h30-14h00	Break	

SESSION 1 Ocean Science

Session 1.3 -- Ocean Science – Chair: K. W. Gurgel

14:00 - 14:25	Hopkins J., J. Howarth	HF radar measurements of residual circulation in the Liverpool Bay region of fresh water influence.
14:25 - 14:50	Stanichny S., Kushnir V.	Recent archives and tools for satellite and meteorological data
14:50 - 15:15	Schaeffer A., A. Molcard, P. Forget, P. Fraunié, P. Garreau	Eddy HF radar observations in the Gulf of Lions.
15h15-15h45	Coffee Break & Posters	
15:45 - 16:10	Champenois W, Lepoint G, Delille B, Commarieu MV, Grégoire M, Beckers JM, and Borges AV.	Evaluation of metabolic rates in various communities in the Bay of Calvi using optodes based on different approaches.
16:10 - 16:35	Wanninkhof R, Pierrot D, Gledhill D, Park G.	Mapping partial pressure of CO2 of surface ocean water using automated instrumentation on ships of opportunity and remote sensing.
16:35 - 17:00	Gildor H.	Submesoscale mixing observations and modeling: from vertical density currents to horizontal barriers to mixing

Friday 30 April

SESSION 2 Data Quality Assessment

Session 2.2 -- Data Quality Assessment – Chair: P. Testor

09:00 - 09:25	Petersen W.	FerryBox – Application of Continuous Water Quality Observations Along Transects in the North Sea.
09:25 - 09:50	Alvera-Azcarate, A. Barth, A., Troupin, C., Beckers, J.-M.	Error assessment of sea surface temperature satellite data relative to in situ data: effect of spatial and temporal coverage.
09:50 - 10:15	Ingleby B.	Comparison of the quality of atmospheric data from ships and buoys.

10h15-10h45 **Coffee Break & Posters**

SESSION 4 Data-Model Comparison and Assimilation

Session 4.2 -- Data-Model comparison and assimilation – Chair: P. Testor

10:45 - 11:10	Rubio A, Mader J, Fontan A, Ferrer L, Gonzalez M and Alzorri N.	Coastal stations, offshore buoys and HF radar for monitoring high frequency ocean processes in the SE Bay of Biscay: some examples of model validation.
11:10 - 11:35	Buonocore B., D. Cianelli, P. Falco, M. Uttieri, B. Buongiorno Nardelli, S., Colella, E. Zambianchi	Multiplatform observation of the surface circulation of the Gulf of Naples (Southern Tyrrhenian Sea)
11:35 - 12:00	Cobas-Garcia, M., Ruiz-Villarreal, M., Garcia-Garcia, L.M., Otero, P.	Constraining model setup in a narrow shelf simulation using different data sources

12h00-14h00 **Break**

SESSION 1 Ocean Science

Session 1.4 -- Ocean Science – Chair: Kostianoy A.

14:00 - 14:25	Kostianoy A., A. Ginzburg, N. Sheremet, V. Kravtsova	Complex satellite monitoring of the Aral Sea region.
14:25 - 14:50	Schmitt F. G.	Multiscale analysis of high frequency coastal monitoring data.
14:50 - 15:15	Rabe B, M Karcher, U Schauer, J M. Toole, R A. Krishfield, S Pisarev, F Kauker, R Gerdes, Ta	An assessment of pan-Arctic Ocean freshwater content changes from the 1990s to the IPY
15:15 - 15:45	Ostrovskii AG, Zatsepin A, Shoev D, Soloviev V, Tsybulsky A.	Applications of the autonomous ocean moored profiler Aqualog for the Black Sea studies.

Liège Colloquium end