

44th Liège Colloquium on Ocean Dynamics: Remote sensing of colour, temperature and salinity – new challenges

Meeting Place: "Petits Amphis" - B7b - 202

Program

| | Monday (07/05) | Tuesday (08/05) | Wednesday (09/05) | Thursday (10/05) | Friday (11/05) |
|-------|---|--|---|---|--|
| 08:30 | Registration | | | | |
| 09:00 | | Session 2 – The arrival of salinity Keynote by Lagerloef G. et al. | Session 5 – Advancing Operational Applications Keynote by Merchant C.J. | Session 7 - Mix and Match: merging satellite data | Session 10 – Advancing visible radiometry of the oceans II |
| 09:40 | Opening of the colloquium | | | | |
| 10:00 | Session 1 – Remotely sensing diurnal variability | | | | |
| 10:20 | | | | | |
| 10:40 | | | | | |
| 11:00 | | | | Session 8 - Advancing visible radiometry of the oceans I | Keynote by Doerffer R et al. |
| 11:20 | Keynote by Young-Je Park | | | | |
| 11:40 | | | Session 6 – Ecosystem dynamics: physical and | | |
| 12:00 | | | | | |
| 12:20 | | | | | |
| 12:40 | | | | | |
| 14:00 | Keynote speaker: While J et al. | Session 3 - Short Posters Presentation | biological interactions Ken Buesseler | Session 9 - Troubled waters | Session 11 – Remote Sensing: Applications end at 15:40 |
| 14:20 | | | | | |
| 14:40 | | | | | |
| 15:00 | | | | | |
| 15:20 | | | | | |
| 15:40 | | Session 4 - Fronts | | | |
| 16:00 | | Keynote by Cornillon P and K Obenour | | Social event | |
| 16:20 | | | | | |
| 16:40 | | | | | |
| 17:00 | | | | | |
| 17:20 | | Poster session - | | | |
| 17:40 | | Cheese and wine reception | | | |
| 18:00 | Ice Breaker party | | Colloquium dinner | | |

Monday

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| 08:30 - 10:00 | Registration | |
| 10:00 - 10:10 | Opening of the colloquium by Aida Alvera-Azcarate and Kevin Ruddick | |
| Session 1 – Remotely sensing diurnal variability | | |
| Session 1.1 – Geostationary Ocean Colour Remote Sensing | | |
| Chair: Pierre-Philippe Mathieu | | |
| 10:10 -10:40 | Keynote speaker: Young-Je Park | Toward detection of sub-diurnal variation of ocean color from space |
| 10:40 -11:00 | Zhifeng Yu et al. | Assessment of the variation of total suspended sediment concentrations in Hangzhou Bay using GOCI, MODIS and HJ-1A/1B |
| 11:00 - 11:20 | Zhongping Lee et al. | Towards high-temporal resolution observation of euphotic zone depth in the North Sea |
| 11:20 -11:40 | Coffee | |
| 11:40 - 12:00 | Fang Shen et al. | Remotely-sensed sediment dynamics on multi-temporal scales in the Yangtze Estuary and adjacent coast |
| 12:00 - 12:20 | Vanhellemont Q et al. | Obtaining high quality ocean colour products at high temporal frequency by exploiting the synergy between polar-orbiting and geostationary sensors |
| 12:20 - 12:40 | Kevin Ruddick et al | Challenges and opportunities for geostationary remote sensing – the next ocean colour revolution |
| 12:40 - 14:00 | Break | |

Monday

Session 1.2 – Sea Surface Temperature diurnal cycle

Chair: Chris Merchant

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| 14:00 - 14:30 | Keynote speaker: While J et al. | Initial progress in producing an analysis system of the diurnal cycle of SST |
| 14:30 - 14:50 | Le Borgne P et al. | Comparison of SEVIRI and buoy derived diurnal warming estimates |
| 14:50 - 15:10 | Chevallier C. et al. | Monitoring the Ushant Front with MSG/SEVIRI derived Sea Surface Temperature data |
| 15:10 - 15:30 | Marullo S et al. | Combining model and geostationary satellite data to reconstruct the hourly SST field over the Mediterranean Sea |
| 15:30 - 15:50 | Uiboupin R and J. Laanemets | Estimation of biases in sea surface temperature obtained by MODIS and AATSR for composite map in case of highly variable temperature fields |

15:50 - 16:10 Coffee

Session 1.3 – Sea Surface Temperature bias

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| 16:10 - 16:30 | Hoyer JL et al. | A Multi-sensor satellite sea surface temperature bias adjustment method for the Arctic Ocean |
| 16:30 - 16:50 | O'Carroll A | Spatial variability of observational biases and errors determined from collocations of IASI, AVHRR and buoy SSTs |
| 16:50 - 17:10 | Tomazic I et al. | Assessing the impact of space and time resolution of brightness temperature simulation conditions in correcting SEVIRI SST over the Adriatic Sea |

Session 1.4

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|---------------|--------------------------|--|
| 17:10 - 17:30 | Shang et al. | A satellite based study on HAB in the East China Sea |
| 17:30 - 20:30 | Ice Breaker party | |

Tuesday

Session 2 - The arrival of salinity

Chair: Bruno Buongiorno Nardelli

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|----------------------|---|---|
| 09:00 - 9:30 | Keynote speaker: Lagerloef G. et al. | Aquarius Satellite Salinity Measurements; Performance, Calibration and Early Science Results During the First Eight Months |
| 09:30 - 09:50 | Guimbard S et al. | SSS retrieval from space: an comparison study using SMOS and Aquarius data |
| 09:50 - 10:10 | Alory G et al. | Sea Surface Salinity off Panama in the Eastern Pacific: seasonal dynamics from in situ and SMOS data |
| 10:10 - 10:30 | Boutin J et al. | Sea surface salinity as measured by SMOS and by surface autonomous drifters: impact of rain |
| 10:30 - 10:50 | Yin Xiaobin et al. (Presented by Boutin J.) | Impact of wind speed error on SMOS SSS retrieval |
| 10:50 - 11:10 | Coffee | |
| 11:10 - 11:30 | Reul N et al. | Observations of Ocean surface response to Hurricane Igor: A Salty Tropical Cyclone Wake observed from Space |
| 11:30 - 11:50 | Umbert M et al. | Turbulence-inspired fusion methods for ocean remote sensing data |
| 11:50 - 12:10 | Wu Xiongbin et al. | Remote Sensing of Sea Surface Conductivity Distribution by HF SurfaceWave Radar |
| 12:10 - 12:30 | Salisbury J et al. | Spatial and temporal coherence between Amazon River discharge, salinity, and light absorption by colored organic carbon in western tropical Atlantic surface waters |

12:30 - 14:00 **Break**

Session 3 - Short poster presentations

Chair: Aida Alvera-Azcarate

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| 14:00 - 15:20 | Short oral presentation of different posters | |
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15:20 - 15:40 **Coffee**

Session 4 - Fronts!

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| 15:40 - 16:10 | Keynote speaker: Cornillon P and K Obenour | Thirty Years of Global SST Front Probability |
| 16:10 - 16:30 | Kazmin A. | Variability of the large-scale oceanic frontal zones as revealed from analysis of the global satellite SST data |
| 16:30 - 16:50 | Kirches G et al. | Detection and Analysis of Fronts in the North Sea |
| 16:50 - 17:10 | Miller P.I. | Ocean front maps for integrating dynamic thermal, colour and salinity features |
| 17:10 - 20:00 | Poster session - Cheese and wine reception | |

Wednesday

Session 5 – Advancing Operational Applications

Chair: Anne O'Carroll

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| 09:00 - 09:30 | Keynote speaker: Christopher J. Merchant | Generating a Climate Data Record for Sea Surface Temperature |
| 09:30 - 09:50 | Gentemann et al. | AMSR-E and WindSAT version 7 microwave SSTs |
| 09:50 - 10:10 | Kaiser-Weiss et al. | Application of products provided by the Group of High Resolution Sea Surface Temperature (GHRSSST) |
| 10:10 - 10:30 | Donlon C et al. | The GMES Sentinel-3 Mission: Overview and Status |

10:30 - 10:50 Coffee

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| 10:50 - 11:10 | Brewin R et al. | The Ocean Colour Climate Change Initiative: a roundrobin comparison of in-water bio-optical inversion algorithms |
| 11:10 - 11:30 | Peters SWM and CoBiOS team | Harmonization of ocean color products |

Session 6 – Ecosystem dynamics: physical and biological interactions

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|---------------|--------------------------------|---|
| 11:30 - 11:50 | Borges A et al. | Estimating pCO ₂ from remote sensing in the Belgian Coastal Zone |
| 11:50 - 12:10 | Pan et al. | A Study of Ocean Responses to Typhoon over the South China Sea by Using Satellite Sea Surface Temperature Data |
| 12:10 - 12:30 | Dingtian Yang and Xiujuan Shan | Cool Water Brought by Upwelling Benefits Coral Reef in the background of Global Warming along South Coast of Hainan Island, |

12:30 - 14:00 Break

Chair: Carsten Brockmann

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|---------------|-------------------|--|
| 14:00 - 14:20 | Tilstone G et al. | Variability in phytoplankton size, primary and export production in the North Atlantic from satellite data |
| 14:20 - 14:40 | Soppa M et al. | Comparison of remotely sensed phytoplankton functional types retrievals in the Southern Ocean |
| 14:40 - 15:00 | Eleveld MA et al. | Sense and Sensibility: Remote Sensing of Ocean Colour, its Accuracies, and Implications for Models |
| 15:00 - 15:20 | Capet A. et al. | Interannual variability of Black Sea's hydrodynamics and connection to atmospheric patterns |

15:20 - 15:40 Coffee

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| 15:40 - 16:00 | Bresciani M et al. | Observation of cyanobacteria bloom in the Curonian Lagoon with multi-source satellite data |
| 16:00 - 16:20 | Bracher A et al. | Temporal and spatial dynamics of phytoplankton composition in the Western Pacific and link to halocarbon emissions |
| 16:20 - 16:40 | Chu PC and Y.H. Kuo | Ocean Color for Detection of Red Tides in the Southwestern Florida Coastal Region |
| 16:40 - 17:00 | Yuanzhi Zhang et al. | Remote estimation of chlorophyll-a concentration in the Pearl River estuary and coastal waters in northern South China Sea |

20:00 - 23:00 Colloquium Dinner: "Château de Colonster"

Thursday

Session 7 - Mix and Match: merging satellite data

Chair: Gary Lagerloef

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|---------------|------------------------------|---|
| 09:00 - 09:20 | B. Buongiorno Nardelli et al | Towards high resolution mapping of 3D mesoscale dynamics from observations: results of the MESCLA project |
| 09:20 - 09:40 | Roberts-Jones J and M Martin | Recent updates to the background uncertainty estimates in OSTIA system |
| 09:40 - 10:00 | Hoareau N et al. | Data assimilation and data fusion in a regional simulation |
| 10:10 - 10:30 | Jingang Jiang et al. | Reconstruction of incomplete satellite SST data sets combining optical and microwave remote sensing products over the China Sea by the DINEOF methodology |
| 10:30 - 10:50 | Alvera-Azcarate A. et al. | An EOF-based technique to compute merged high resolution sea surface temperature fields |

10:50 - 11:10 Coffee

Session 8 - Advancing visible radiometry of the oceans I

Chair: David Doxaran

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| 11:10 - 11:30 | Lavender S et al. (Presented by K. Barker) | The Importance of Quality Control for Science: Spaceborne Medium Resolution Optical Sensors |
| 11:30 - 11:50 | Sebastiá MT et al. | Coastal waters monitoring: spatial or spectral resolution? |
| 11:50 - 12:10 | Bernard S et al. | Ocean Colour Signal Characterisation and New Algorithms for Eutrophic and Hypertrophic Coastal and Inland Waters |
| 12:10 - 12:30 | Saux-Picart S et al. | Remote sensing of assimilation number for marine phytoplankton |

12:30 - 14:00 Break

Session 9 - Troubled waters

Chair: Kathryn Barker

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| 14:00 - 14:20 | Liste M et al. | Modeling and observation of freshwater and sediment plumes at the Catalan Coast |
| 14:20 - 14:40 | De Boer G et al. | Harmonic and DINEOF analysis for North Sea SPM patterns |
| 14:40 - 15:00 | Dogliotti AI et al. | Variability of La Plata River extremely turbid waters using MODIS-Aqua images and its relation to fish habitat selection |

15:00 - 15:20 Coffee

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| 15:20 - 15:40 | Fettweis M et al. | Weather and climate related spatial variability of high turbidity areas in the North Sea and the English Channel |
| 15:40 - 16:00 | Doxaran et al | Contribution to the validation of GOCI products over turbid waters with MERIS, MODIS and field measurements data |

16:00 - 18:00 Social Event

Friday

Session 10 – Advancing visible radiometry of the oceans II

Chair: To be advised

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|----------------------|------------------------------------|---|
| 09:00 - 09:30 | Keynote speaker: Doerffer R et al. | Including temperature and salinity variations of pure water optical properties in a Case 2 water retrieval algorithm |
| 09:30 - 09:50 | Odermatt D et al. | Beyond the two cases of water - water constituent retrieval algorithms and validity ranges |
| 09:50 - 10:10 | Rousseau V et al. | Development and validation of an algorithm estimating primary production in the Southern North Sea |
| 10:10 - 10:30 | Krasemann H. and D. Müller | Ocean Colour Time series of MERIS data comparing various algorithms |
| 10:30 - 10:50 | Coffee | |
| 10:50 - 11:10 | Lei H and B Zhou | Harmful Algal Bloom Detection with MODIS Inherent Optical Properties Products: A Decision Tree Application |
| 11:10 - 11:30 | Kopelevich O et al. | The problem of satellite monitoring of coccolithophore blooms in the Black Sea |
| 11:30 - 11:50 | Goyens C et al. | Inter-comparison and improvement of atmospheric correction algorithms based on worldwide in-situ data taken in highly turbid waters |
| 11:50 - 12:10 | Lapucci C et al. | Chlorophyll_a algorithms for MODIS and MERIS full resolution imagery: a comparison between Case 1 and Case 2 Ligurian and North Tyrrhenian waters |
| 12:10 - 12:30 | Brockmann C et al. | CoastColour Approach for Consensus Case 2 Regional Algorithm Protocols |

12:30 - 14:00 Break

Session 11 – Remote Sensing: Applications

Chair: Kevin Ruddick

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| 14:00 - 14:20 | Bouali M. and A. Ignatov | Quantification and reduction of striping on MODIS/VIIRS top-of-atmosphere clear-sky ocean radiances and derived products |
| 14:20 - 14:40 | Grishin N and A Kostianoy | Satellite monitoring of the nord stream gas pipeline construction in russian waters of the gulf of Finland in 2010-2011 |
| 14:40 - 15:00 | Stanichny S et al. | Harmful algae bloom and oil pollutions – spectral manifestations and impact on the upper layer properties |
| 15:00 - 15:20 | Shevyrnogov A.P. and G.S. Vysotskaya | Ocean dynamics on a global scale using satellite measurements |

Posters

Posters should fit within a vertical frame of 125 * 92 cm.

Posters highlighted in Yellow will be accompanied by a short oral presentation

Temperature

| Order | Title | Authors |
|-------|---|---|
| 1 | A New Generation of Ship-Deployed Hyperspectral Infrared Interferometers to Extend the Climate Data Record of Sea-Surface Temperature into the VIIRS, | Peter J Minnett, Migel Angle Izaguirre, Malgorzata Szczodrak, Luc Rochette |
| 2 | Comparison of ocean model outputs and MSG/SEVIRI hourly sea surface temperature fields | Françoise Orain, Pierre Le Borgne, Bruno Levier, Gilles Garric |
| 3 | Estimation and Validation of the Peruvian Sea Surface Temperature using NOAA - AVHRR and In-Situ Data with PACHA-RICAJ Software | Joel Rojas Acuña, José Carlos Eche Llenque, Edward Alburqueque Salazar |
| 4 | Oceanography at EUMETSAT | Anne O'Carroll, Hans Bonekamp, Graig Anderson, Ewa Kwiatkowska, Julia Figasaldaña |
| 5 | Error Characteristics of MODIS sea surface temperature (SST) Algorithm | Ajoy Kumar |
| 6 | Validation of the regional algorithms for the sea surface temperature observation using the AVHRR NOAA sensors in the Black and Caspian Seas | Lebedev S. Solovyov D. and Kostianoy A. |

Salinity

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| 7 | SMOS Sea Surface Salinity Validation in South China Sea | Yongzheng Ren, Xiaoming Li, Qing Dong, Xiaoyang Wen |
| 8 | Evaluation of SMOS Sea Surface Salinity over Bay of Bengal | H Rahaman, M Ravichandran |
| 9 | SMOS CP34 Soil Moisture and Ocean Salinity maps | Jordi Font, Carolina Gabarró, Maria Piles, Joaquim Ballabrera, Antonio Turiel et al. |

Various

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| 10 | Cabo Pulmo: a comparison between in situ and satellite oceanographic measurements | A. Trasviña-Castro, O. Aburto-Oropeza, E. González-Rodríguez, M.A. Cosío-López |
| 11 | Identification of Weibull Distribution for Global Significant Wave Heights from Radar Altimetry Tutorial (RAT) | P.C. Chu |
| 12 | In-situ data and remote sensing of temperature, salinity and chlorophyll on the North Western Black Sea | Maria-Emanuela Mihailov, Luminita Buga, Viorel Malciu, George Sarbu |
| 13 | Long-term dynamics of chlorophyll concentration and sea surface temperature in the ocean surface layer (by satellite data) | G. Vysotskaya |
| 14 | Manifestation of the mesoscale phenomena in surface roughness, altimetry, optical and thermal properties of the upper layer | A. Kubryakov, S.Stanichny, R.Sanichnaya, S.Djenidi |
| 15 | Mesoscale in the coastal zone of the Southern Baja California Peninsula | E. González-Rodríguez, A. Trasviña-Castro |
| 16 | Monitoring changes of Nam Co Lake using remote sensing data (2000-2009) | Yanhong Wu, Junsheng Li |
| 17 | Short term upwelling/downwelling events in Fortune Bay, Newfoundland | A.W. Ratsimandresy, G. Mabrouk, D. Hamoutene, J. Salcedo, P. Goulet, R. Losier, D. Drover, L. Sheppard |

Posters

Posters should fit within a vertical frame of 125 * 92 cm.

Colour

| | | |
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| 18 | A Preliminary Study on Bi-directional Reflectance Distribution of Inland Water | Antonio Turiel, Justino Martinez, Marta Umbert, Fernando Pérez, |
| 19 | An algorithm for the attenuation of the photosynthetically available radiation (KPAR): application to MODIS and MERIS imagery and validation with Smart | Bouchra Nechad, Kevin Ruddick |
| 20 | Comparing in-situ measurements of water leaving reflectance with MERIS data applied to different atmospheric correction algorithms | H. Krasemann, D.Müller |
| 21 | Concentration of the suspension and Chlorophyll-A derived from optical scanners for the coastal waters | Vladimir Kushnir |
| 22 | Deep ocean warming assessed from altimeters, GRACE, and a non-Boussinesq OGCM | Y. Tony Song |
| 23 | Estimation of suspended sediments concentrations in coastal ocean using in-situ and Hyperion data | Qianguo Xing, Chuqun Chen, Mingjing Lou, Ping Shi |
| 24 | Estimation of the total absorption $a(\lambda)$ and the backscattering $bb(\lambda)$ parameters using a neural network inversion in coastal waters | Cédric Jamet |
| 25 | Extraction of the Douro river plume size from MERIS Total Suspended Matter data using classification and segmentation methods | A. Teodoro, H. Almeida, H. Gonçalves |
| 26 | Harmful Algal Bloom Detection with MODIS Inherent Optical Properties Products: A Decision Tree Application | H. Lei, B.Zhou |
| 27 | Hyperspectral analysis of coral reefs by using a water column correction algorithm | Chaoya Yang, Dingtian Yang |
| 28 | Influence of suspended particle concentration, composition and size on the variability of inherent optical properties of the Southern North Sea | Rosa Astoreca, David Doxaran, Kevin Ruddick, Véronique Rousseau, Christiane Lancelot |
| 29 | Marine dynamic and structur of the West Madagascar | Rananantsoa Heriniaina, Juliano Dany, Bemiasa John |
| 30 | Model assessment for coastal water absorption coefficients in East China Sea | J. Huang, X. L. Chen, L. Q. Chen |
| 31 | Monitoring of multi-year algal bloom dynamics in the North Sea using MERIS and | D. Van der Zande, K. Ruddick |
| 32 | Optimal interpolation of Chlorophyll-A satellite observations in the North Sea and Baltic Sea | Hoyer, J. L., Dobrynin, M., Howe E. |
| 33 | Retrieval of oceanic phytoplankton with a combined phytodoas-RTM method utilizing hyper spectral satellite measurements | T. Dinter, A. Sadeghi, A. Wolanin, B. Taylor, M. Vountas, A. Bracher |
| 34 | Studies of the bio-optical characteristics of the Russian northern seas by using satellite and ship data (the White Sea as an example) | V. Burenkov, O. Kopelevich, M. Kravchishina, S. Sheberstov, S. Vazyulya |
| 35 | Study of red tide developing in the Persian Gulf and Oman Sea using remote sensing data from Modis Sensor | Samad Hamzei, A.A. Bidokhti |
| 36 | Suspended sediment monitoring and assessment for Yellow River Estuary from Landsat TM/ETM+ imagery | Minwei Zhang , Qing Dong, Tinwei Cui, Cunjin Xue |
| 37 | The use of new DEIMOS-1 high-resolution satellite imagery to study the spatial variability of Guadalquivir River plume (SW Iberian Peninsula). | I. Caballero, E. P. Morris, J. Ruiz, G. Navarro |
| 38 | Using self-organizing maps to identify phytoplankton groups from remotely sensed data in case 1 waters | Z. Ben Mustapha, S. Alvain, C. Jamet and H.Loisel |
| 39 | Variability of the spring bloom in the Labrador Sea from SeaWiFS and Seaglider | Eleanor Frajka-Williams, Peter B. Rhines, Charles C. Eriksen |

Posters

Posters should fit within a vertical frame of 125 * 92 cm.

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| 40 | Influence of strong wind event on phytoplankton bloom during northeast monsoon in northern South China Sea | Caiyun Zhang |
| 41 | Fusion between Remote Sensing and in situ SPM data in the North Sea | Johannes Pein, Johannes Schulz-Stellenfleth, Emil V. Stanev |
| 42 | A novel approach to the high resolution interpolation of in situ Sea Surface Salinity using satellite SST data | B. Buongiorno Nardelli |
| 43 | Remote sensing of phytoplankton variability off South-Western Iberia: a sentinel for climate change? | Lilian A. Krug, Ana B. Barbosa, Rita B. Domingues, Helena M. Galvã O, Joachim Luís, Trevor Platt, Paulo Relvas, Shubha Sathyendranath |
| 44 | ISECA: Information System on the Eutrophication of our Coastal Areas | V. Martinez-Vicente ¹ , G.H. Tilstone ¹ , S.B. Groom ¹ , R. Santer ² |
| 45 | Application of the geostationary ocean color imager (GOCI) for the temporal variations in coastal water turbidity | J.K. Choi, J.H. Ryu, H.S. Lim, Y.J. Park |
| 46 | Temporal and spatial dynamics of phytoplankton composition in the Western Pacific and link to halocarbon emissions | A. Bracher, T. Dinter, B. Taylor, B. Quack, F. Wottle |
| 47 | Reconstruction of Total Suspended Matter data over the North Sea using DINEOF: use of the Gaussian anamorphosis transformation | A. Alvera-Azcarate, G. Neukermans, A. Barth, K. Ruddick, J.-M. Beckers |

Poster Short Oral Presentations for the 44th International Liège Colloquium on Ocean Dynamics;

Tuesday 10 May at 14:00

| Order | Time | Title | Authors |
|-------|-------|--|--|
| 1 | 14:00 | Comparison of ocean model outputs and MSG/SEVIRI hourly sea surface temperature fields | Françoise Orain, Pierre Le Borgne, Bruno Levier, Gilles Garric |
| 2 | | Short term upwelling/downwelling events in Fortune Bay, Newfoundland | A.W. Ratsimandresy, G. Mabrouk, D. Hamoutene, J. Salcedo, P. Goulet, R. Losier, D. Drover, L. Sheppard |
| 3 | | A Preliminary Study on Bi-directional Reflectance Distribution of Inland Water Optical Field | Antonio Turiel, Justino Martinez, Marta Umbert, Fernando Pérez, Adriano Camps |
| 4 | 14:15 | Hyperspectral analysis of coral reefs by using a water column correction algorithm | Chaoya Yang, Dingtian Yang |
| 5 | | Optimal interpolation of Chlorophyll-A satellite observations in the North Sea and Baltic Sea | Hoyer, J. L., Dobrynin, M., Howe E. |
| 6 | | Studies of the bio-optical characteristics of the Russian northern seas by using satellite and ship data (the White Sea as an example) | V. Burenkov, O. Kopelevich, M. Kravchishina, S. Sheberstov, S. Vazyulya |
| 7 | 14:30 | Suspended sediment monitoring and assessment for Yellow River Estuary from Landsat TM/ETM+ imagery | Minwei Zhang , Qing Dong, Tinwei Cui, Cunjin Xue |
| 8 | | Using self-organizing maps to identify phytoplankton groups from remotely sensed data in case 1 waters | Z. Ben Mustapha, S. Alvain, C. Jamet and H.Loisel |
| 9 | | Fusion between Remote Sensing and in situ SPM data in the North Sea | Johannes Pein, Johannes Schulz-Stellenfleth, Emil V. Stanev |
| 10 | 14:45 | A novel approach to the high resolution interpolation of in situ Sea Surface Salinity using satellite SST data | B.Buongiorno Nardelli |
| 11 | | Application of the geostationary ocean color imager (GOCI) for the temporal variations in coastal water turbidity | J.K. Choi, J.H. Ryu, H.S. Lim, Y.J. Park |
| 12 | | Temporal and spatial dynamics of phytoplankton composition in the Western Pacific and link to halocarbon emissions | A. Bracher, T. Dinter , B. Taylor , B. Quack , F. Wottle |
| 13 | 15:00 | Reconstruction of Total Suspended Matter data over the North Sea using DINEOF: use of the Gaussian anamorphosis transformation | A. Alvera-Azcarate, G. Neukermans, A. Barth, K. Ruddick, J.-M. Beckers |