

Monday, September 27, 2010

0800 – 1710 Registration Open

1000 Exhibits Open

0830 – 0900 OPENING REMARKS & Transfer of Speaking Bell - ESA Representative, Paula Bontempi, TOS Representative

Organismal Response to Light Field

Chairperson: Sumit

0900 – 0920 Cummings, Molly Elizabeth; Maginnis, Tara; Gilerson, Alexander; Tonizzo, Alberto; Ahmed, Samir; Holt, Joan; Kline, Rick; Brady, Parrish - POLARIZED CAMOUFLAGE IN MARINE FISH — WHO DOES IT?

0920 – 0940 Gao, Meng; You, Yu; Dagach, Sergio; Kattawar, George W. - UNDERSTANDING CEPHALOPOD CAMOUFLAGE BY THE USE OF A NOVEL 3D VECTOR RADIATIVE TRANSFER CODE

0940 – 1000 Talapatra, Siddharth; Nayak, Aditya Ramakrishna; Zhang, Cao; Hong, Jiarong; Katz, Joseph; Twardowski, Michael; Sullivan, James; Donaghay, Percy - CHARACTERIZATION OF ORGANISMS, PARTICLES, AND BUBBLES IN THE WATER COLUMN USING A FREE-DRIFTING, SUBMERSIBLE, DIGITAL HOLOGRAPHY SYSTEM

10:00-1020 Break

Radiative Transfer/Atmospheric Correction

Chairperson: Malik Chami

1020 – 1040 Chowdhary, Jacek; Cairns, Brian; Ottaviani, Matteo; Mishchenko, Michael - NATURAL VARIATION OF POLARIZED WATER-LEAVING RADIANCE WITH CDOM: SIMULATIONS AND OBSERVATIONS FOR THE OPEN OCEAN

1040 – 1100 Wang, Menghua; Shi, Wei - THE SWIR-BASED ON-ORBIT VICARIOUS CALIBRATION APPROACH FOR MODIS OCEAN COLOR DATA PROCESSING

1100 – 1120 Kay, Susan; Hedley, John; Lavender, Samantha - MODELLING THE BEHAVIOUR OF LIGHT AT THE ATMOSPHERE-OCEAN BOUNDARY – AN APPROACH USING HIGH-RESOLUTION SEA SURFACE REALIZATIONS

1120 – 1140 Jamet, Cédric; Loisel, Hubert; Ruddick, Kevin; Zibordi, Giuseppe; Feng, Hui; Kuchinke, Christopher - COMPARISON OF THREE SEAWIFS ATMOSPHERIC CORRECTION ALGORITHMS IN TURBID WATERS FROM AERONET-OC MEASUREMENTS

1140 – 1200 Zege, Eleonora; Katsev, Iosif; Prikhach, Alexander; Mullen, Linda; Cochenour, Brandon - MODULATING RETRO-REFLECTOR LINKS IN SEAWATERS

1200 – 1330 Lunch Break

Near Surface Processes

Chairperson: Czarsai

1330 – 1350 Lewis, Marlon R.; Van Dommelen, Ronnie; Wei, Jianwei; Voss, Kenneth - THE UNDERWATER RADIANCE DISTRIBUTION

1350 – 1410 Randolph, Kaylan; Dierssen, Heidi; Twardowski, Michael; Zappa, Christopher; Cifuentes-Lorenzen, Alejandro; Freeman, Scott - OPTICAL MEASUREMENTS OF BUBBLE POPULATIONS DURING LARGE SCALE WAVE BREAKING IN THE SOUTHERN OCEAN AND THEIR SIGNIFICANCE TO REMOTE SENSING REFLECTANCE

1410 – 1430 Gernez, Pierre; Stramski, Dariusz; Darecki, Mirosław - VERTICAL CHANGES IN THE PROBABILITY DISTRIBUTION OF DOWNWELLING IRRADIANCE WITHIN THE NEAR-SURFACE OCEAN LAYER UNDER CLEAR SKY CONDITIONS

1430 – 1450 Twardowski, Michael; Zhang, Xiaodong; Freeman, Scott; Slivkoff, Matthew; Sullivan, James; Czerski, Helen; Vagle, Svein; You, Yu; Kattawar, George - INVERTING THE VOLUME SCATTERING FUNCTION TO INFER PARTICLE COMPOSITION AND DYNAMICS AT THE NEAR-SURFACE IN THE SURF ZONE AND OPEN OCEAN

1450 – 1510 You, Yu; Kattawar, George W. - MODELING DYNAMIC UNDERWATER POLARIZED RADIANCE FIELDS USING WAVE SLOPES AND IOPS FROM RADYO FIELD EXPERIMENTS

1510 – 1530 Voss, Kenneth; Kattawar, George; You, Yu; Gordon, Howard; Gleason, Arthur - DISCOVERY OF NON-PRINCIPAL-PLANE NEUTRAL POINTS IN THE IN-WATER UPWELLING POLARIZED LIGHT FIELD

15:30 – 16:00 Break

Invited Lectures

Chairperson: Grace Chang

1600 – 1640 Fournier, Georges - POLARIZATION IN SCATTERING

1640 – 1720 Hanlon, Roger T. - OPTICAL MAGIC: HOW CEPHALOPODS SENSE AND MANIPULATE LIGHT TO PRODUCE RAPID ADAPTIVE CAMOUFLAGE AND COMMUNICATION

Poster Session #1

17:30 - 19:00

Radiative / Atmospheric

2. Jamet, Cédric; Loisel, Hubert; Ruddick, Kevin; Zibordi, Giuseppe; Feng, Hui; Kuchinke, Christopher - COMPARISON OF THREE SEAWIFS ATMOSPHERIC CORRECTION ALGORITHMS IN TURBID WATERS FROM AERONET-OC MEASUREMENTS

5. Zhao, Dongzhi; Ma, Yujuan; Yang, Jianhong - THE CHARACTERS OF AEROSOL DISTRIBUTION IN THE YELLOW SEA AND THE VALIDATION OF AOT OBSERVED BY MODIS

8. Zege, Eleonora; Katsev, Iosif; Prikhach, Alexander; Mullen, Linda; Cochenour, Brandon - MODULATING RETRO-REFLECTOR LINKS IN SEAWATERS

11. Blum, Mirjam; Rozanov, Vladimir; Dinter, Tilman; Bracher, Astrid - EVALUATION OF THE COUPLED ATMOSPHERIC-OCEANIC RADIATIVE TRANSFER MODEL SCIATRAN EMPLOYING IN-SITU AND SATELLITE REMOTE SENSING MEASUREMENTS

14. Amin, Ruhul; Gould, Richard; Hou, Weilin; Martinolich, Paul; Montes, Marcos - INTERCOMPARISON OF ATMOSPHERIC CORRECTION ALGORITHMS APPLIED TO HICO IMAGERY

17. Duforêt-Gaurier, Lucille; Frouin, Robert; Dessailly, David; Labonnote, Laurent; Brogniez, Gerard; Dubuisson, Philippe - REMOTE-SENSING OF OCEAN-COLOR ABOVE THIN CIRRUS CLOUDS

Bio-optical and Biogeochemical Measurements and Modeling

20. Ostrowska, Mirosława - DEPENDENCE OF QUANTUM YIELD OF CHLOROPHYLL A FLUORESCENCE IN THE SEA ON ENVIRONMENTAL FACTORS – THE PRELIMINARY RESULTS
23. Wojtasiewicz, Bożena; Stramski, Dariusz - CHLOROPHYLL-SPECIFIC ABSORPTION AND SCATTERING COEFFICIENTS OF SELECTED CYANOBACTERIA
26. Doxaran, David; Babin, Marcel; Chami, Malik; Lorthiois, Thomas; Ruddick, Kevin G; McKee, David - VISIBLE AND NEAR-INFRARED SPECTRAL VARIATIONS OF LIGHT BACKSCATTERING BY PARTICLES IN COASTAL WATERS
29. Lorthiois, Thomas; Doxaran, David; Chami, Malik; McKee, David; Jourdin, Frederic - IMPORTANCE OF PARTICULATE BACKSCATTERING MEASUREMENTS IN THE NEAR INFRARED BANDS FOR IMPROVING REMOTE SENSING ALGORITHMS IN COASTAL WATERS
32. Kuwahara, Victor; Nakajima, Ryota; Othman, B. H. R.; Kushairi, M. R. M.; Toda, Tatsuki - GEOGRAPHICAL VARIABILITY OF UVR AND ITS RELATIONSHIP TO CORAL REEF COMMUNITIES AROUND THE MALAYSIAN PENINSULA
35. Majchrowski, Roman; Stoń-Egiert, Joanna - VERTICAL ALGAL ACCESSORY PIGMENT DISTRIBUTIONS IN THE BALTIC SEA - PRELIMINARY MATHEMATICAL DESCRIPTION
38. Svensen, Øyvind; Frette, Øyvind; Kildemo, Morten; Aas, Lars Martin Sandvik; Erga, Svein Rune; Stamnes, Jakob - INVESTIGATIONS OF THE POLARIZATION PROPERTIES OF ALGAE SCATTERING
41. Shen, Fang; Zhou, Yunxuan; Hong, Guanlin - ABSORPTION CHARACTERISTICS OF NON-ALGAL PARTICLES IN HIGHLY TURBID WATERS OF THE YANGTZE RIVER ESTUARY AND ADJACENT COAST, CHINA
44. Hargreaves, Bruce R.; Vaidya, Ashma - RIGOROUS CALIBRATION OF AN IMPROVED FILTER PAD METHOD FOR PHYTOPLANKTON SPECTRAL ABSORPTION & APPLICATION TO SOGASEX
47. Goela, Priscila Costa; Cristina, Sónia; Icely, John; Newton, Alice - LIGHT ABSORPTION BY PARTICULATE AND DISSOLVED ORGANIC MATTER IN COASTAL AND OCEANIC SITES OF THE SOUTHWEST COAST OF EUROPE: A CONTRIBUTION TO MERIS SENSOR VALIDATION
50. Gilerson, Alexander; Gitelson, Anatoly; Zhou, Jing; Gurlin, Daniela; Moses, Wesley; Ioannou, Ioannis; Ahmed, Samir - REMOTE SENSING ALGORITHMS FOR THE ESTIMATION OF CHLOROPHYLL-A IN COASTAL WATERS USING RED AND NEAR INFRARED BANDS
53. Shanmugam, Palanisamy - MODIFIED-SEADAS ATMOSPHERIC CORRECTION ALGORITHM TO IMPROVE RETRIEVAL OF SURFACE REFLECTANCE IN CASE 2 WATERS
56. Gonzalez-Silvera, Adriana; Millan-Nunez, Roberto; Santamaria-del-Angel, Eduardo; Santander-Cruz, Jonatan; Callejas-Jimenez, Mariana; Gracia-Escobar, Maria Fernanda - TIME AND SPACE VARIABILITY OF SOME BIO-OPTICAL PROPERTIES AT ANTARES BAJA CALIFORNIA STATION, MEXICO (2007-2009)

59. Shanmugam, Palanisamy; Sundarabalan, Balasubramanian; Ahn, Yu-Hwan; Ryu, Joo-Hyung - RETRIEVAL OF PARTICULATE BACKSCATTERING IN COASTAL/OCEANIC WATERS
62. Nubi, Olubunmi Ayoola - MERIDIONAL DISTRIBUTION OF NUTRIENTS IN THE EASTERN EQUATORIAL ATLANTIC – PRELIMINARY STUDIES
65. Dupouy, Cécile; Röttgers, Rüdiger - ABSORPTION BY DIFFERENT COMPONENTS DURING A HIGH FRESHWATER EVENT OF THE 2008 LA NINA EPISODE IN A TROPICAL LAGOON
68. Hancock, Harmony A; Hochberg, Eric J. - OPTICAL INDICES FOR *IN-SITU* DETERMINATION OF CORAL STATUS
71. Frolov, Sergey; Shulman, Igor; Anderson, Stephanie - MULTIVARIATE DATA ASSIMILATION WITH THE MONTEREY BAY COUPLED BIO-OPTICAL, PHYSICAL MODEL

Optics of Oil in Coastal Waters

74. Yao, Haibo - OIL SPECTRAL CHARACTERISTICS WITH HIGH RESOLUTION IMAGING SPECTROMETER - A CASE STUDY OF OIL FROM DEEP WATER HORIZON

Oil Spill

77. Pegau, William Scott; Wijesekera, Hemantha; Boyd, Tim; Moline, Mark - SPATIAL SCALES OF IRRADIANCE VARIABILITY

Optical Shallow Water Mapping and Benthic Optics

80. Klonowski, Wojciech; Lynch, Mervyn; Fearn, Peter; Slivkoff, Matthew - A LOOK-UP-TABLE APPROACH FOR SELECTING SEMI-ANALYTIC MODEL COEFFICIENTS USED IN SHALLOW WATER INVERSION

Organismal Response and Adaptation to the Light Field

83. Chakraborty, Sumit; Lohrenz, Steven - PHYTOPLANKTON TYPES AND ABSORPTION PROPERTIES IN THE VICINITY OF MISSISSIPPI RIVER DURING AUTUMN AND SPRING OF 2005-06.
86. Jolliff, Jason; Gould, Richard; deRada, Sergio - ESTABLISHING BASELINE SUBSURFACE LIGHT FIELDS FOR THE FLOWER GARDEN BANKS NATIONAL MARINE SANCTUARY
89. Talapatra, Siddharth; Nayak, Aditya Ramakrishna; Zhang, Cao; Hong, Jiarong; Katz, Joseph; Twardowski, Michael; Sullivan, James; Donaghay, Percy - CHARACTERIZATION OF ORGANISMS, PARTICLES, AND BUBBLES IN THE WATER COLUMN USING A FREE-DRIFTING, SUBMERSIBLE, DIGITAL HOLOGRAPHY SYSTEM
92. Gao, Meng; You, Yu; Dagach, Sergio; Kattawar, George W.- UNDERSTANDING CEPHALOPOD CAMOUFLAGE BY THE USE OF A NOVEL 3D VECTOR RADIATIVE TRANSFER CODE

Experimental Optics

95. Kim, Hyun-cheol; Ahn, Yu-Hwan.; Moon, Jeong Eon; Park, B.K.. - LATE SPRING BIO-OPTICAL FEATURES AROUND SVALBARD, ARCTIC SEA
98. Vuorenkoski, Anni; Dalgleish, Fraser; Shirron, Joseph; Giddings, Thomas - MULTI-PATH EFFECTS ON OPTICAL COMMUNICATION LINKS

Operational Environmental Optics and Remote Sensing

101. Włodzimierz, Freda - BACKSCATTERING COEFFICIENT RETRIEVAL FROM MEASUREMENTS OF SINGLE ANGLE LIGHT SCATTERING IN SOUTHERN BALTIC
104. Ryu, Joo-Hyung; Moon, Jeong Eon; Son, Young Baek; Ahn, Yu-Hwan - PRELAUNCH STUDY OF CAL/VAL FOR GEOSTATIONARY OCEAN COLOR IMAGER

107. Lavender, Samantha Jane; Barker, Kathryn; Kay, Susan; Fanton d'Andon, Odile Hembise; Bourg, Ludovic; McCulloch, Mike; Kent, Chris; Goryl, Philippe - UNCERTAINTY ANALYSES OF OCEAN COLOUR SATELLITE DATA

Optical Remote Sensing

110. Ferreira, Amábile; Garcia, Carlos Alberto Eiras; Garcia, Virgínia Maria Tavano; Dogliotti, Ana Ines - VARIABILITY IN THE HYPERSPECTRAL REMOTE SENSING REFLECTANCE AND PERFORMANCE OF OC4V4 ALGORITHM IN THE PATAGONIAN SHELF -BREAK
113. Zhang, Xiangguang; Asanuma, Ichio; Cao, Nan; Zhao, Chaofang; Huang, Bangqin - A NEW BIO-OPTICAL ALGORITHM FOR ESTIMATING COLORED DISSOLVED ORGANIC MATTER ABSORPTION IN COASTAL WATERS FROM MODIS DATA
116. Schaeffer, Blake A.; Hagy, James D.; Lehrter, John C.; Stumpf, Richard; Conmy, Robyn N. - USE OF SEAWIFS AND MODIS TO SUPPORT DEVELOPMENT OF NUMERIC NUTRIENT CRITERIA FOR FLORIDA COASTAL WATERS
119. Hooper, Brett A.; Baxter, Becky; Scott, Nicholas; Vierra, Kenneth; Piotrowski, Cindy - REMOTE CHARACTERIZATION OF THE UPPER OCEAN USING AIRBORNE MULTISPECTRAL POLARIMETRIC IMAGING
122. Hlaing, Soe; Ahmed, Samir; Gladkova, Irina; Gilerson, Alexander; Grossberg, Michael; Shahriar, Faizul - COMPARISON OF A BIO-OPTICAL ALGORITHM AND A STATISTICALLY BASED APPROACH FOR SATELLITE DETECTIONS OF HARMFUL ALGAL BLOOMS
125. Moore, Gerald; Lavender, Samantha; Kratzer, Suzanne; Icely, John; Huot, Jean-Paul - THE MERIS BRIGHT PIXEL ATMOSPHERIC CORRECTION: EVOLUTION, PERFORMANCE ASSESSMENT AND VALIDATION FOR THE MERIS 3RD REPROCESSING
128. Tanikawa, Tomonori; Wei, Li; Stamnes, Knut - A NEW OCEAN COLOR ALGORITHM FOR THE GCOM-C1/SGLI SENSOR
134. McKinna, Lachlan Ian William; Furnas, Miles; Ridd, Peter; Everingham, Yvette; Slivkoff, Matthew - INVERSION OF HYPERSPECTRAL REMOTE SENSING REFLECTANCE FOR QUANTITATIVE DETECTION OF TRICHODESMIUM SPP. WITHIN THE GREAT BARRIER REEF
137. Hirawake, Toru; Matsumoto, Keitaro; Shinmyo, Katsuhito; Fujiwara, Amane; Saitoh, Sei-Ichi - SIZE STRUCTURE OF PHYTOPLANKTON AND OPTICAL PROPERTIES IN THE ARCTIC OCEAN IN AUTUMN
140. Mériaux, Xavier; Loisel, Hubert; Neukermans, Griet; Ruddick, Kevin - COMPARISON BETWEEN REMOTE SENSING REFLECTANCE ESTIMATED FROM ABOVE OR IN WATER UPWELLING RADIANCES
143. Raymaekers, Dries; Knaeps, Els; Sterckx, Sindy; Tote, Carolien; Odermatt, Daniel - IMPROVING ACCURACY OF WATER QUALITY MONITORING IN CASE-II WATERS BY WAVELET TRANSFORMATION

Remote Sensing

146. Fearn, Peter Rhoderick - REMOTE SENSING OF MASSIVE FLOATING MACRO-ALGAL BLOOMS

Lidar and Other Active Remote Sensing Techniques

149. Epps, Sarah; Lohrenz, Steven; Tuell, Grady; Martin, Kevin - OPTICAL PROPERTIES IN RELATION TO SUSPENDED PARTICULATE MATTER (SPM) IN THE NORTHERN GULF OF MEXICO

Near Surface Processes

152. Hieronymi, Martin; Macke, Andreas - MONTE CARLO RADIATIVE TRANSFER SIMULATIONS ON THE INFLUENCE OF SURFACE WAVES ON UNDERWATER LIGHT FIELDS
155. Gleason, Arthur C. R.; Voss, Kenneth J; Gordon, Howard R - MEASURING AND MODELING THE POLARIZED UPWELLING RADIANCE DISTRIBUTION IN CLEAR AND COASTAL WATERS
158. Zappa, Christopher J; Banner, Michael; Gemmrich, Johannes; Schultz, Howard; Morison, Russel; Wei, Jianwei; Lewis, Marlon - THE INFLUENCE OF OCEAN SURFACE ROUGHNESS AND BREAKING WAVES ON SUBSURFACE RADIANCE
161. Randolph, Kaylan; Dierssen, Heidi; Twardowski, Michael; Zappa, Christopher; Cifuentes-Lorenzen, Alejandro; Freeman, Scott - OPTICAL MEASUREMENTS OF BUBBLE POPULATIONS DURING LARGE SCALE WAVE BREAKING IN THE SOUTHERN OCEAN AND THEIR SIGNIFICANCE TO REMOTE SENSING REFLECTANCE
164. Hancke, Kasper; Hovland, Erlend Kjeldsberg; Volent, Zsolt; Sakshaug, Egil - CDOM IN THE BARENTS SEA: ABUNDANCE AND ORIGIN ACROSS THE POLAR FRONT
167. You, Yu; Kattawar, George W. - MODELING DYNAMIC UNDERWATER POLARIZED RADIANCE FIELDS USING WAVE SLOPES AND IOPS FROM RADYIO FIELD EXPERIMENTS

Bio-optics North

170. Schwarz, Jill N; Pinkerton, Matt H; Gall, Mark; Maas, Els; Safi, Karl; Chang, Hoe; van Kooten, Marieke; Thompson, Karen; Wood, Simon; Cunningham, Chris - SEEKING CONNECTIONS BETWEEN HIGHER SPECTRAL RESOLUTION SHIP-BORNE RADIOMETRY AND SURFACE BIOGEOCHEMISTRY
173. Cullen, John; Fennel, Katja MODELING THE DYNAMICS OF OPTICAL PROPERTIES IN THE OCEAN, DIRECTLY AND MECHANISTICALLY

New Instruments, Autonomous Vehicles and Other Platforms

176. Chekalyuk, Alexander - ADVANCED LASER FLUOROMETRY (ALF): NEW INSTRUMENTS, PLATFORMS AND FIELD OBSERVATIONS
179. Van Dommelen, Ronnie; Lewis, Marlon; Wei, Jianwei - INSTRUMENTATION, CALIBARATION AND VALIDATION OF A HIGH-DYNAMIC-RANGE RADIANCE CAMERA
182. Oishi, Tomohiko; Ebata, Hiroki; Takakusaki, Mitsuhiro; Nemoto, Moyu; Suzuki, Ryou; Takahashi, Hirokazu; Furuta, Masaji - DEVELOPMENT OF TWO CHANNEL EMISSION FLUOROMETER WITH MULTI-WAVELENGTH EXCITATION BASE ON SIMULTANEOUS ILLUMINATION METHOD
- 182a. Roughan, Moninya; Morris, Bradley D.; Doblin, Martina; Baird, Mark; Suthers, Iain - OCEAN OPTICS WITHIN NSW-IMOS: AN INTEGRATED MARINE OBSERVING SYSTEM FOR THE COAST OF SOUTHEASTERN AUSTRALIA.

Use of Historical Optical Observations

185. Vantrepotte, Vincent; Loisel, Hubert; Dessailly, David; Duforêt-Gaurier, Lucille; Mélin, Frédéric - GLOBAL PARTICULATE MATTER POOL TEMPORAL VARIABILITY OVER THE SEAWIFS PERIOD (1997-2007)

Underwater Imaging and Photography

188. Giddings, Thomas; Shirron, Joseph - THE SHOWER CURTAIN EFFECT AND ELECTRO-OPTICAL IMAGING SENSORS

Remote Sensing and Shallow Waters

191. Kanitz, Thomas; Althausen, Dietrich; Engelmann, Ronny; Baars, Holger; Macke, Andreas - MULTIWAVELENGTH RAMAN AEROSOL OBSERVATIONS OF SAHARAN AND PATAGONIAN DUST ABOARD THE RESEARCH VESSEL POLARSTERN DURING ITS MERIDIONAL CRUISE ANT-26/1
194. Hedley, John; Roelfsema, Chris; Phinn, Stuart - PROPAGATING UNCERTAINTY THROUGH A SHALLOW WATER MAPPING ALGORITHM BASED ON RADIATIVE TRANSFER MODEL INVERSION

Particle Dynamics and Optical Processes

197. Sullivan, James Michael; Twardowski, Michael; Katz, Joseph; Hong, Jiarong; Talapatra, Siddharth; Donaghay, Percy - UNDERSTANDING PARTICLE DYNAMICS USING IN-SITU HOLOGRAPHIC MICROSCOPY
200. Slade, Jr., Wayne Homer; Boss, Emmanuel - SPECTRAL ATTENUATION AND BACKSCATTERING AS INDICATORS OF PARTICLE SIZE DISTRIBUTION

Bio-optics South

203. Behrenfeld, Michael J; Boss, Emmanuel - THE 'CRITICAL DEPTH HYPOTHESIS' VERSUS THE 'DILUTION-RECOUPLING HYPOTHESIS' OF PHYTOPLANKTON BLOOMS
206. Goes, Joaquim Ignacio; Gomes, Helga do Rosario; Matondkar, Prabhu G. Shivaprasad; Thoppil, Prasad G.; Fasullo, John T; Roesler, Collin M.; Basu, Subhajit; Parab, Sushma G. - EXTENSIVE PHYTOPLANKTON BLOOMS IN THE NORTHERN ARABIAN SEA AND POTENTIAL FEEDBACK EFFECTS

Chairman's Choice

209. Ebert, Kerstin; Chami, Malik; Allais, Anne Gaelle; Galland, Frédéric; Bouhier, Marie Edith; Edmond, Toussaint; Boffety, Matthieu; Maciol, Nicolas; Nicolas, Stéphane - ANALYSIS OF UNDERWATER IMAGE DEGRADATION USING RADIATIVE TRANSFER MODELING. APPLICATION TO SUBMARINE IMAGE VISIBILITY

New Instruments

212. Mullen, Linda; Laux, Alan; Zege, Eleonora P; Katsev, Iosif L; Prikhach, Alexander S - MODULATED PULSE SYSTEM FOR EXTENDED RANGE UNDERWATER IMAGING
215. Dalgleish, Fraser R; Ramos, Brian; Britton, Walter B; and Caimi, Frank M. - MULTISTATIC DISTRIBUTED LASER LINE SCAN IMAGING ARCHITECTURE

Remote Sensing of Bio-optical Properties

218. Lee, ZhongPing; Huang, Changchun; Lubac, Bertrand; Guo, Laodong; Ko, Dong-Shan; Lohrenz, Steven; Gould, Richard - CHARACTERIZATION OF SUSPENDED PARTICULATES IN THE NORTHERN GULF OF MEXICO FROM OCEAN COLOR REMOTE SENSING
221. Nechad, Bouchra; Ruddick, Kevin; Neukermans, Griet - REMOTE SENSING OF THE DIFFUSE ATTENUATION COEFFICIENT AND RELATED PARAMETERS IN TURBID WATERS: STATE OF THE ART AND FUTURE PERSPECTIVES
- 121a. Pratt, Patty, Ip, Justin; McCarthy, Jim, Chou, Mau-Song; Donovan, John; and Hauss, Bruce - STATUS OF VIIRS SYSTEMS ENGINEERING FOR OCEAN COLOR SCIENCE QUALITY DATA: CONFIDENTLY RETRIEVING WATER-LEAVING RADIANCE AND CHLOROPHYLL CONCENTRATION FROM ACO & OCC ON NPP BASED ON RIGOROUS SENSOR TESTING PROGRAM

Remote Sensing of Phytoplankton Characteristics

224. Craig, Susanne Elizabeth; Jones, Chris T.; Cullen, John J.; Li, William K.W.; Lazin, Gordana; Horne, Edward; Caverhill, Carla - DERIVING OPTICAL METRICS OF ECOLOGICAL VARIABILITY FROM A COASTAL OCEAN OBSERVATION PROGRAM
227. Blondeau-Patissier, David; Brando, Vittorio E.; Dekker, Arnold G.; Phinn, Stuart R.; Weeks, Scarla J.; Schroeder, Thomas; Park, Young Je - PHYTOPLANKTON RESPONSE TO EPISODIC EVENTS AND LONG-TERM TRENDS IN THE GREAT BARRIER REEF LAGOONAL WATERS: TOWARDS A REGIONAL CHARACTERISATION

Ocean and Coastal Optical Properties and Uncertainties

230. Van der Woerd, Hendrik Jan; Eleveld, Marieke A.; Hommersom, Annelies; Peters, Steef W.M. - ERROR ESTIMATES IN CHL, SPM AND CDOM CONCENTRATION RETRIEVAL IN TURBID COASTAL WATER: PERFORMANCE OF A HYDROLIGHT BASED INVERSION SCHEME

Invited Speakers

233. Fournier, Georges - POLARIZATION IN SCATTERING
235. Alvain, Severine - LATEST NEWS ON REMOTE SENSING OF PHYTOPLANKTON FUNCTIONAL GROUPS: WHAT WE CAN DO NOW AND WHAT CAN WE EXPECT IN THE FUTURE?

Tuesday, September 28, 2010

Bio-optics North

Chairperson: Z. Zhang

- 0800 – 0820 Cullen, John; Fennel, Katja - MODELING THE DYNAMICS OF OPTICAL PROPERTIES IN THE OCEAN, DIRECTLY AND MECHANISTICALLY
- 0820 – 0840 Schwarz, Jill N; Pinkerton, Matt H; Gall, Mark; Maas, Els; Safi, Karl; Chang, Hoe; van Kooten, Marieke; Thompson, Karen; Wood, Simon; Cunningham, Chris - SEEKING CONNECTIONS BETWEEN HIGHER SPECTRAL RESOLUTION SHIP-BORNE RADIOMETRY AND SURFACE BIOGEOCHEMISTRY
- 0840 – 0900 Perry, Mary Jane; Briggs, Nathan; Cetinic, Ivona; D'Asaro, Eric; Lee, Craig M.; Sieracki, Michael E. - THE CARBON TO CHLOROPHYLL RATIO IN THE OCEAN: DO CHANGES IN THE RATIO REFLECT CHANGING PHYSIOLOGY, COMMUNITY STRUCTURE, OR BOTH?
- 0900 – 1920 Briggs, Nathan; Cetinic, Ivona; Gray, Amanda; Rehm, Eric; D'Asaro, Eric; Lee, Craig; Perry, Mary Jane - USING SPIKES IN OPTICAL MEASUREMENTS TO TRACK AN AGGREGATE FLUX EVENT FROM AUTONOMOUS PLATFORMS.
- 0920 – 0940 Matsuoka, Atsushi; Bricaud, Annick; Babin, Marcel - TRACKING THE TRANSPORTATION OF COLORED DISSOLVED ORGANIC MATTERS IN WESTERN ARCTIC WATERS: IMPLICATIONS FOR HYDROGRAPH OF THE ARCTIC OCEAN
- 0940 – 1000 Fichot, Cedric G; Lohrenz, Steven; Miller, William L.; Benner, Ron - DYNAMICS OF DOM OPTICAL PROPERTIES AND CHEMICAL COMPOSITION IN A RIVER-DOMINATED OCEAN MARGIN (NORTHERN GULF OF MEXICO)

1000 – 1020 Break

Bio-optics South

Chairperson: Harmony Hancock

- 1020 – 1040 Goes, Joaquim Ignacio; Gomes, Helga do Rosario; Matondkar, Prabhu G. Shivaprasad; Thoppil, Prasad G.; Fasullo, John T.; Roesler, Collin M.; Basu, Subhajit; Parab, Sushma G. - EXTENSIVE PHYTOPLANKTON BLOOMS IN THE NORTHERN ARABIAN SEA AND POTENTIAL FEEDBACK EFFECTS
- 1040 – 1100 Oubelkheir, Kadija; Steven, Andrew D.L.; Ford, Phillip W.; Clementson, Lesley A.- BIO-OPTICAL AND BIOGEOCHEMICAL DYNAMICS OF A SUB-TROPICAL ESTUARY IN SOUTH-EAST QUEENSLAND, AUSTRALIA
- 1100 – 1120 Segura, Valeria; Lutz, Vivian Alicia; Dogliotti, Ana Ines; Benavides, Hugo Rodolfo; Silva, Ricardo Ismael; Negri, Ruben Mario; Akselman, Rut.- PHYTOPLANKTON FUNCTIONAL TYPES IN THE PATAGONIAN SEA: ACCORDING TO PHOTOSYNTHETICAL AND BIO-OPTICAL CHARACTERISTICS
- 1120 – 1140 Courtemanche, Bruno; Huot, Yannick - EXAMINING SVERDRUP'S HYPOTHESIS USING SATELLITE OCEAN COLOR AND THE ARGO PROFILING FLOATS
- 1140 – 1200 Behrenfeld, Michael J. - THE 'CRITICAL DEPTH HYPOTHESIS' VERSUS THE 'DILUTION-RECOUPLING HYPOTHESIS' OF PHYTOPLANKTON BLOOMS

1200h – 1330 LUNCH

13:30-16:00 FREE PERIOD # 1

Invited Lectures

Chairperson: Victor Kuwahara

- 1600 – 1630 Dickey, Tommy - TOWARD THE UNDERSTANDING AND PREDICTION OF OPTICS NEAR THE OCEAN SURFACE
- 1700 - 1730 Churnside, James - LIDAR Measurements Along The Food Chain

Poster Session #2

17:30 - 19:00



Radiative / Atmospheric

3. Zdun, Agnieszka; Rozwadowska, Anna - IMPACT OF AIR MASS ON AEROSOL OPTICAL PROPERTIES OVER THE BALTIC SEA
6. He, Xianqiang - ASSESSMENT OF THE AEROSOL MODELS FOR SEAWIFS AND MODIS BY AERONET DATA

9. Mobley, Curtis; Sundman, Lydia; Bissett, Paul; Cahill, Bronwyn - FAST AND ACCURATE LIGHT CALCULATIONS FOR COUPLED PHYSICAL-BIOLOGICAL-OPTICAL ECOSYSTEM MODELS
12. Stamnes, Snorre; Stamnes, Knut; Hamre, Børge; Stamnes, Jakob - RADIATIVE TRANSFER IN THE COUPLED ATMOSPHERE-OCEAN SYSTEM: A VERSATILE MODEL BASED ON THE DISCRETE-ORDINATE METHOD
15. Babin, Marcel; Mazeran, Constant - A NEW NIR-VISIBLE ALGORITHM FOR ATMOSPHERIC CORRECTIONS OVER TURBID WATERS
18. Kay, Susan; Hedley, John; Lavender, Samantha - MODELLING THE BEHAVIOUR OF LIGHT AT THE ATMOSPHERE-OCEAN BOUNDARY – AN APPROACH USING HIGH-RESOLUTION SEA SURFACE REALIZATIONS

Bio-optical and Biogeochemical Measurements and Modeling

21. Jaegler, Thomas; Bélanger, Simon - A NOVEL APPROACH TO CHARACTERIZE COLORED DISSOLVED ORGANIC MATTER (CDOM) USING *IN SITU* MULTISPECTRAL FLUORESCENCE AND ABSORPTION METERS
27. Woźniak, Sławomir B.; Meler, Justyna; Lednicka, Barbara; Zdun, Agnieszka; Stoń-Egiert, Joanna - OPTICAL AND BIOGEOCHEMICAL PROPERTIES OF SUSPENDED PARTICULATE MATTER IN THE SOUTHERN BALTIC SEA
30. Kheireddine, Malika; Loisel, Hubert; Mériaux, Xavier; Breton, Elsa; Courcot, Lucie; Houliez, Emilie; Lizon, Fabrice - PHYTOPLANKTON INHERENT OPTICAL PROPERTIES DURING EXPONENTIAL AND STATIONARY GROWTH PHASES
33. Xing, Xiaogang; Claustre, Hervé; Morel, André; Gentili, Bernard; Poteau, Antoine; d'Ortenzio, Fabrizio - A COMBINED DATA TREATMENT TO IMPROVE THE RETRIEVAL OF CHLA CONCENTRATION AND NOISE-FREE RADIOMETRIC PROFILE IN OCEANIC WATERS: APPLICATION TO PROFILING FLOATS MEASUREMENTS
36. Theis, Anja; Schmitt, Bettina; Bracher, Astrid - BIO-OPTICAL MEASUREMENTS IN ATLANTIC OPEN OCEAN WATERS FOR SATELLITE VALIDATION
39. Ssebiyonga, Nicolausi; Erga, Svein; Frette, Øyvind; Stamnes, Jakob - MEASUREMENT OF INSTANTANEOUS PHYTOPLANKTON PHOTOSYNTHETIC PARAMETERS IN LAKE VICTORIAN (UGANDA) USING A FLUORESCENCE TECHNIQUE
42. Du, Keping; Lee, ZhongPing - A NEW DATA PROCESSING METHOD FOR HYDROSCAT-6 BASED ON HYDROLIGHT
45. Trees, Charles; McLean, S. D.; Lewis, M. R.; Zibordi, Giuseppe. - MULTI-CAST MEASUREMENT PROTOCOLS FOR IMPROVING NEAR SURFACE RADIOMETRIC DATA
48. Cao, Fang; Reader, Heather; Miller, William - RETRAINING THE SEAUUV/SEAUVC MODEL FOR IMPROVED ALGORITHM OF DARK, INSHORE WATERS FROM THE GEORGIA COAST, USA
51. Franz, Bryan; Werdell, Jeremy - A GENERALIZED FRAMEWORK FOR MODELING OF INHERENT OPTICAL PROPERTIES WITHIN OCEAN REMOTE SENSING APPLICATIONS
54. Naik, Puneeta; D'Sa, Eurico J; Goes, Joaquim I; Gomes, Helga do R.- MODELING PARTICULATE ABSORPTION PROPERTIES IN THE SOUTHEASTERN BERING SEA
57. Miller, William L. - QUANTIFYING PHOTOCHEMICAL REACTIONS IN THE SURFACE OCEAN WITH OPTICAL MODELS: POTENTIAL PROBLEMS TO PONDER

60. Estapa, Margaret L - MASS-SPECIFIC ABSORPTION BY SUSPENDED SEDIMENTS IN COASTAL LOUISIANA: CONNECTIONS TO PARTICLE COMPOSITION AND OCEAN COLOR
63. Motokawa, Shozo; Toda, Tatsuki; Kikuchi, Tomohiko; Taguchi, Satoru - VARIABILITY IN THE SIZE-FRACTIONATED ABSORPTION COEFFICIENTS OF WATER COLUMN IN COASTAL WATER
66. Lee, Sang; Zhao, Jinping; Son, SeungHyun - OPTICAL PROPERTIES AND BIO-OPTICAL ALGORITHMS IN THE NORTHEASTERN BERING SEA IN EARLY SUMMER, 2007
69. Chase, Alison P; Roesler, Collin S; Hankinson, Sam; Teegarden, Greg; Laine, Edward - THE USE OF SPECTRAL REFLECTANCE TO IDENTIFY PHYTOPLANKTON SPECIES SUCCESSION IN COASTAL MAINE

Optics of Oil in Coastal Waters

72. Epps, Sarah; Lohrenz, Steven; Joung, DongJoo; Asper, Vernon - SHIP-BASED REMOTE SENSING REFLECTANCE OBSERVATIONS RELATED TO THE DEEPWATER HORIZON PETROLEUM CONTAMINATION EVENT, GULF OF MEXICO

Oil Spill

75. Coble, Paula; Hu, Chuanmin; Ivey, James; Kovach, Charles; Cannizzaro, Jennifer; English, David; Arellano, Ana; Barnes, Brian; Peebles, Ernst - OPTICAL PROPERTIES OF DISPERSED AND NON-DISPERSED OIL IN THE GULF OF MEXICO IN THE AFTERMATH OF THE DEEPWATER HORIZON BLOWOUT

Optical Shallow Water Mapping and Benthic Optics

81. Hill, Victoria; Zimmerman, Richard; Bissett, Paul - QUANTIFYING THE ABUNDANCE OF SUBMERGED AQUATIC VEGETATION IN NEARSHORE COASTAL ENVIRONMENTS WITH THE BROADBAND MULTISPECTRAL SENSOR, WORLDVIEW 2

Organismal Response and Adaptation to the Light Field

84. Dierssen, Heidi M; Johnsen, Geir; Cummings, Molly; Maginnis, Tara; Holt, Joan - SPECTRAL POLARIZED REFLECTANCE FROM SKIN PREPARATIONS FROM FOUR DIFFERENT SUBTROPICAL FISH SPECIES
87. Laney, Samuel - THE DYNAMICS OF SUN-STIMULATED PHYTOPLANKTON FLUORESCENCE
90. Cummings, Molly Elizabeth; Maginnis, Tara; Gilerson, Alexander; Tonizzo, Alberto; Ahmed, Samir; Holt, Joan; Kline, Rick; Brady, Parrish - POLARIZED CAMOUFLAGE IN MARINE FISH — WHO DOES IT?

Experimental Optics

93. Cone, Michael Thomas; Lu, Zheng; Fry, Edward - MEASURING THE ABSORPTION COEFFICIENT OF PURE WATER IN THE UV USING AN INTEGRATING CAVITY ABSORPTION METER
96. Tonizzo, Alberto; Ibrahim, Amir; Chowdhary, Jacek; Gilerson, Alexander; Ahmed, Samir - ESTIMATING PARTICLE COMPOSITION FROM THE POLARIZED WATER LEAVING RADIANCE
99. Kobayashi, Hiroshi; Ishizaka, Joji; Jintasaeranee, Pachoenchoke; Gunbua, Vichaya; Fukasawa, Tatsuya - WATER-LEAVING RADIANCE MEASURED USING WITH COVERED RADIOMETERS IN TURBID WATERS

Operational Environmental Optics and Remote Sensing

102. Devred, Emmanuel; Sathyendranath, Shubha; Platt, Trevor; Stuart, Venetia - A SIMPLE ALGORITHM TO DERIVE PHYTOPLANKTON SIZE DISTRIBUTION FROM ABSORPTION PROPERTIES: APPLICATION TO SEAWIFS DATA
105. Cristina, Sónia; Goela, Priscila; Icely, John; Moore, Gerald; Newton, Alice - EVALUATION OF THE MERIS MARINE PRODUCTS IN COASTAL AND OCEANIC WATERS OFF CAPE SAGRES ON THE SOUTH-WEST COAST OF PORTUGAL

Optical Remote Sensing

108. Hochberg, Eric J - IMPACT OF GLINT ON HYSPIRI AQUATIC SCIENCE OBJECTIVES
111. Bricaud, Annick; Ciotti, Aurea M.; Gentili, Bernard - SEASONAL AND INTERANNUAL VARIATIONS IN PHYTOPLANKTON SIZE AND COLORED DETRITAL MATTER ABSORPTION AT GLOBAL AND REGIONAL SCALES, AS DERIVED FROM THE SEAWIFS TIME SERIES
114. Wozniak, Monika; Krezel, Adam; Darecki, Mirosław; Wojtasiewicz, Bożena - OPTICAL PROPERTIES OF BALTIC SEA PHYTOPLANKTON
117. Bai, Yan - REMOTE SENSING OF SALINITY IN CHANGJIANG PLUME BY MODIS DATA
120. Baxter, Becky - POLARIMETRIC REMOTE SENSING OF OCEAN WAVES
123. Salama, Mhd. Suhyb - UNCERTAINTY OF APPARENT AND INHERENT OPTICAL PROPERTIES AS DERIVED FROM GLOBAL OCEAN COLOR PRODUCTS
126. Lahbib, Soumaya; Lili Chabaane, Zohra; Komatsu, Teruhisa; Gana, Slim - THE CONTRIBUTION OF REMOTE SENSING AND GEOGRAPHICAL INFORMATION SYSTEM - GIS FOR ENVIRONMENTAL EVALUATION OF MARINE AND COASTAL RESOURCES: CASE OF SIDI MECHREG-CAP NEGRO - NORTHWESTERN TUNISIA
129. Maritorena, Stéphane; Siegel, David A.; Nelson, Norm B.; Frew, James; Behrenfeld, Michael J.; Kostadinov, Tihomir; Bonhommeau, Sylvain; NASA, OBPG - THE OCEAN COLOR MEASURES PROJECT: CURRENT AND FUTURE PRODUCTS
132. Corson, Michael - THE HYPERSPECTRAL IMAGER FOR THE COASTAL OCEAN: LITTORAL ENVIRONMENTAL CHARACTERIZATION FROM THE INTERNATIONAL SPACE STATION
135. Romero, Silvia Inés; Ferrari, Ramiro - OPTICAL CHARACTERIZATION OF WATER MASSES IN THE PLATA PLUME
138. Tufillaro, Nicholas; Davis, Curtiss O; Jones, Katherine B.- DERIVATIVE SIGNATURES OF PLUMES FROM MERIS AND HICO
141. Torrecilla, Elena; Piera, Jaume; Stramski, Dariusz; Reynolds, Rick A.; Millán-Núñez, Eduardo - CLUSTER ANALYSIS OF HYPERSPECTRAL OPTICAL DATA FOR DISCRIMINATING PHYTOPLANKTON PIGMENT ASSEMBLAGES IN THE OPEN OCEAN
144. Arnone, Robert; Fargion, G.; Scadino, T.; Lawson, A.; Ladner, S.; Ahmed, S.; Weidemann, Alan.; Gibson, W.; Zibordi, Giuseppe; Feng, Hui.; Holben, B. ; Davis, Curtiss.- SPATIAL AND TEMPORAL UNCERTAINTY OF SATELLITE OCEAN COLOR PRODUCTS USING AERONET OCEAN COLOR

Remote Sensing

147. Aurin, Dirk; Dierssen, Heidi - APPLICATIONS OF NEW REGIONAL OCEAN COLOR REMOTE SENSING ALGORITHMS IN AN URBANIZED ESTUARY; TSM TRANSPORT DURING RECORD 2010 NEW ENGLAND FLOODS AND LINKS TO LAND USE

Lidar and Other Active Remote Sensing Techniques

150. Montes-Hugo, Martin; Weidemann, Alan; Gould, Richard; Jolliff, Jason; Arnone, Robert; Churnside, James - OCEAN COLOR PATTERNS HELP TO PREDICT DEPTH OF OPTICAL LAYERS IN COASTAL MARINE WATERS

Near Surface Processes

153. Voss, Kenneth; Kattawar, George; You, Yu; Gordon, Howard; Gleason, Arthur - DISCOVERY OF NON-PRINCIPAL-PLANE NEUTRAL POINTS IN THE IN-WATER UPWELLING POLARIZED LIGHT FIELD
156. Chang, Grace; Twardowski, Michael - POINT SPREAD FUNCTIONS AND VISIBILITY: GAINING CLARITY ON IMAGE PROCESSING IN NATURAL WATERS
159. Wei, Jianwei; Lewis, Marlon; Van Dommelen, Ronnie - RADIANCE DISTRIBUTION AS A FUNCTION OF DEPTH IN TYPICAL SEA WATERS
162. Lewis, Marlon R.; Van Dommelen, Ronnie; Wei, Jianwei; Voss, Kenneth - THE UNDERWATER RADIANCE DISTRIBUTION
165. Orrico, Cristina M; Zaneveld, J. Ron V; Barnard, Andrew H; Moline, Mark A; Robbins, Ian; Moore, Casey - USING A+BB TO DETERMINE THE DEPTH OF VISIBILITY OF A BIOLUMINESCENT POINT SOURCE

Bio-optics North

168. Fichot, Cedric G; Lohrenz, Steven; Miller, William L.; Benner, Ron - DYNAMICS OF DOM OPTICAL PROPERTIES AND CHEMICAL COMPOSITION IN A RIVER-DOMINATED OCEAN MARGIN (NORTHERN GULF OF MEXICO)
171. Perry, Mary Jane; Briggs, Nathan; Cetinic, Ivona; D'Asaro, Eric; Lee, Craig M.; Sieracki, Michael E - THE CARBON TO CHLOROPHYLL RATIO IN THE OCEAN: DO CHANGES IN THE RATIO REFLECT CHANGING PHYSIOLOGY, COMMUNITY STRUCTURE, OR BOTH?

New Instruments, Autonomous Vehicles and Other Platforms

174. Leymarie, Edouard; Antoine, David; Morel, André; Buis, Jean-Pierre; Buis, Nicolas; Victori, Stephane; Meunier, Sylvain; Canini, Marius; Houyou, Amel; Fougne, Bertrand; Henry, Patrice - MEASUREMENT OF THE UNDERWATER RADIANCE DISTRIBUTION: FIRST RESULTS FROM A NEW RADIANCE CAMERA
177. Zielinski, Oliver; Dittmar, Thorsten; Rohde, Peter; Ungermann, René; Voss, Daniela - CDOM AND PAH'S IN THE MARINE ENVIRONMENT - *IN SITU* SENSING WITH TIME RESOLVED FLUORESCENCE AND LIQUID CORE WAVEGUIDES
180. Ouyang, Bing; Dalgleish, Fraser - UNDERWATER LASER SERIAL IMAGING USING COMPRESSIVE SENSING
183. Crawford, Jim - A NEW LOW COST, MULTISPECTRAL IN-SITU ABSORBANCE INSTRUMENT

Use of Historical Optical Observations

186. Wernand, Marcel Robert; Van der Woerd, Hendrik J. - OCEAN COLOR CHANGES IN THE NORTH PACIFIC SINCE 1930

Remote Sensing and Shallow Waters

189. Pennucci, Giuliana - GLIDER DATA PROCESSING AND DATA COMPARISON IN OPTICAL PARAMETER ESTIMATION FOR ENVIRONMENTAL CHARACTERIZATION
192. Dekker, Arnold Graham; Phinn, Stuart R.; Anstee, Janet M.; Bissett, Paul; Brando, Vittorio E.; Casey, B.; Fearn, Peter; Hedley, John; Klonowski, Wojciech; Lee, ZhongPing; Lynch, Mervyn; Lyons, Mitchell; Mobley, Curtis; Roelfsema, Chris - MULTIPLE OPTICAL SHALLOW WATER INVERSION METHODS FOR BATHYMETRY, IN-WATER OPTICS, AND BENTHOS MAPPING: HOW DO THEY COMPARE?

Particle Dynamics and Optical Processes

195. Cunningham, Alex - OPTICAL SIGNIFICANCE OF BIOGENIC MINERALS IN SHELF SEAS
198. Kostadinov, Tihomir Sabinov; Siegel, David A.; Maritorena, Stéphane MULTIPLE-INDEX OPTICAL CHARACTERIZATION OF THE PARTICLE ASSEMBLAGE IN THE SANTA BARBARA CHANNEL, CALIFORNIA
201. Stavn, Robert Hans - OPTICAL PROPERTIES OF SUSPENDED SEDIMENTS AND AGGREGATES: PRIMARY AND SECONDARY PARTICLES

Bio-optics South

204. Courtemanche, Bruno; Huot, Yannick - EXAMINING SVERDRUP'S HYPOTHESIS USING SATELLITE OCEAN COLOR AND THE ARGO PROFILING FLOATS

Chairman's Choice

210. Gould, Richard W.; Lewis, M. David; Smith, Regina D.; Ko, Dong S.- MAPPING COASTAL HYPOXIA IN THE NORTHERN GULF OF MEXICO WITH OCEAN COLOR IMAGERY

New Instruments

213. Erickson, Jeffrey Stephen - BUILDING AN AUTOMATED MICROFLOW FLOW CYTOMETER FOR UNDERSEA OPERATION
216. Cetinic, Ivona; Weatherbee, Ryan; Thomas, Andrew C.; Perry, Mary Jane - REDUCING UNCERTAINTY IN THE PRIMARY PRODUCTIVITY ASSESMENT BY COUPLING SATELLITE AND IN-WATER ROBOTIC MEASUREMENTS

Remote Sensing of Bio-optical Properties

219. Martinez, Elodie Claire; Antoine, David; d'Ortenzio, Fabrizio; De Boyer Montegut, Clement - CHANGING CHARACTERISTICS OF PHYTOPLANKTON SPRING AND FALL BLOOMS IN THE NORTH ATLANTIC FROM THE 1980S' TO 2000S'
222. Marrable, Daniel Stephen; Fearn, Peter; Lynch, Mervyn; Klonowski, Wojciech - SPECTRAL ANALYSIS OF ESTUARINE WATER FOR CHARACTERISATION OF INHERENT OPTICAL PROPERTIES AND PHYTOPLANKTON CLASSIFICATION

Remote Sensing of Phytoplankton Characteristics

225. Omachi, Claudia Yuki; Ferreira, Amábile; Garcia, Virgínia Maria Tavano; Garcia, Carlos Alberto Eiras; Campos, Edmo José Dias - BIO-OPTICAL SIGNALS AND THE PHYTOPLANKTON FUNCTIONAL TYPES IN THE SOUTHWESTERN ATLANTIC OCEAN
228. Bracher, Astrid; Sadeghi, Alireza; Dinter, Tilman; Schmitt, Bettina; Vountas, Marco; Röttgers, Rüdiger; Peeken, Ilka; Ye, Ying - PHYTOPLANKTON GROUPS FROM SPACE USING PHYTODOAS: IMPROVEMENTS BY MULTI-TARGET FITTING, YEARLY DATA SET, VALIDATION AND FIRST APPLICATION

Invited Speakers

234. Hu, Chuanmin - ONE INDEX, MANY APPLICATIONS

Wednesday, September 2010

Chairman's Choice

Chairperson: Heidi Dierssen

0800 – 0820 Gould, Richard W.; Lewis, M. David; Smith, Regina D.; Ko, Dong S.- MAPPING COASTAL HYPOXIA IN THE NORTHERN GULF OF MEXICO WITH OCEAN COLOR IMAGERY

0820 – 0840 Bélanger, Simon; Ehn, Jens; Raimbault, Patrick; Leymarie, Edouard; Doxaran, David; Hooker, Stan; Babin, Marcel - ON THE ROLE OF SEA ICE MELTING ON NEAR-SURFACE VERTICAL VARIABILITY OF PARTICULATE ABSORPTION COEFFICIENT IN THE ARCTIC OCEAN

0840 – 0900 Ebert, Kerstin; Chami, Malik; Allais, Anne Gaele; Galland, Frédéric; Bouhier, Marie Edith; Edmond, Toussaint; Boffety, Matthieu; Maciol, Nicolas; Nicolas, Stéphane - ANALYSIS OF UNDERWATER IMAGE DEGRADATION USING RADIATIVE TRANSFER MODELING.APPLICATION TO SUBMARINE IMAGE VISIBILITY.

0900 – 1920 van Dijk, Mark Albert; Hoogveld, Hans L.; Simis, Stefan G. H.; Kromkamp, Jacco C.; Gons, Herman J. - SPECIFIC ABSORPTION SIGNATURES OF TAXONOMIC SUBPOPULATIONS IN PHYTOPLANKTON COMMUNITIES

0920 – 0940 Student Presentation

0940 – 1000 Student Presentation

1000 – 1020 Break

New Instruments

Chairperson: Sarah Woods

1020 – 1040 Mullen, Linda; Laux, Alan; Zege, Eleonora P; Katsev, Iosif L; Prikhach, Alexander S - MODULATED PULSE SYSTEM FOR EXTENDED RANGE UNDERWATER IMAGING

1040 – 1100 Alley, Derek Michael; Mullen, Linda; Laux, Alan; McBride, Walton - EXTENDED RANGE, NON-LINE-OF-SIGHT (NLOS) UNDERWATER IMAGING USING A TIME VARYING INTENSITY (TVI) APPROACH.

1100 – 1120 Erickson, Jeffrey Stephen - BUILDING AN AUTOMATED MICROFLOW FLOW CYTOMETER FOR UNDERSEA OPERATION

1120 – 1140 Haubrich, David; Fry, Edward S.; Kattawar, George W.; Musser, Joseph A.- INSTRUMENTATION TO MEASURE THE BACKSCATTERING COEFFICIENT FOR ARBITRARY PHASE FUNCTIONS

1140 – 1200 Cetinic, Ivona; Weatherbee, Ryan; Thomas, Andrew C.; Perry, Mary Jane - REDUCING UNCERTAINTY IN THE PRIMARY PRODUCTIVITY ASSESMENT BY COUPLING SATELLITE AND IN-WATER ROBOTIC MEASUREMENTS

1200h – 1330h LUNCH

13:30-16:00 FREE PERIOD #2

Invited Lectures

Chairperson: Helga Gomes

1600 – 1630 Boss, Emmanuel - OPTICS AND SEDIMENT DYNAMICS

1700 - 1730 Mikkelsen, Ole; Agrawal, Yogi - LIGHT SCATTERING MEASUREMENTS OF ALL KINDS OF PARTICLES AT ALL KINDS OF ANGLES

Poster Session #3

17:30 - 19:00

Radiative / Atmospheric

1. Wang, Menghua; Shi, Wei - THE SWIR-BASED ON-ORBIT VICARIOUS CALIBRATION APPROACH FOR MODIS OCEAN COLOR DATA PROCESSING
4. Knaeps, Els; Sterckx, Sindy; Ruddick, Kevin - SIMEC, AN ENVIRONMENT CORRECTION FOR MERIS BASED ON THE NIR SIMILARITY SPECTRUM
7. Chami, Malik; Ebert, Kerstin - INFLUENCE OF MULTIPLE SCATTERING ON THE DOWNWELLING IRRADIANCE AND ON THE DIFFUSE ATTENUATION COEFFICIENT IN COASTAL WATERS
10. Mélin, Frédéric; Clerici, Marco - THE COLORS AND SHADOWS CONTAINED IN DAILY PAR
13. Sanjuan Calzado, Violeta; Chiggiato, Jacopo; Trees, Charles - IMPROVED HEAT FLUXES IN OCEAN CIRCULATION MODELS BY OPTICS
16. Chowdhary, Jacek; Cairns, Brian; Ottaviani, Matteo; Mishchenko, Michael - NATURAL VARIATION OF POLARIZED WATER-LEAVING RADIANCE WITH CDOM: SIMULATIONS AND OBSERVATIONS FOR THE OPEN OCEAN
19. Budak, Vladimir P.; Efremenko, Dmitriy S.; Gilerson, Alexander; Klyuykov, Dmitriy A.; Korkin, Sergey V.; Oshchepkov, Sergey L.; Tonizzo, Alberto; Ahmed, Samir - CIAO: MODEL OF POLARIZATION RADIATION TRANSFER IN ATMOSPHERE – OCEAN SYSTEM

Bio-optical and Biogeochemical Measurements and Modeling

22. Dogliotti, Ana L.; Segura, Valeria; Lutz, Vivian A. - PRIMARY PRODUCTION IN THE PATAGONIAN CONTINENTAL SHELF AND SHELF-BREAK REGION: IMPROVED ESTIMATION USING SATELLITE-BASED MODELS
25. Takao, Shintaro; Hirawake, Toru; Suzuki, Koji; Wright, Simon W.; Saitoh, Sei-Ichi - VARIATIONS OF NET PRIMARY PRODUCTIVITY AND PHYTOPLANKTON COMMUNITY COMPOSITION IN THE SOUTHERN OCEAN DURING AUSTRAL SUMMER AS ESTIMATED FROM OCEAN-COLOR REMOTE SENSING DATA
28. Antoine, David; Siegel, David A; Kostadinov, Tihomir; Maritorena, Stéphane; Nelson, Norm B; Gentili, Bernard; Vellucci, Vincenzo; Guillocheau, Nathalie - OPTICAL PARTICLE BACKSCATTERING IN CONTRASTED BIO-OPTICAL OCEANIC REGIMES OF THE MEDITERRANEAN SEA (BOUSSOLE SITE), THE SANTA BARBARA CHANNEL, CALIFORNIA (PLUMES AND BLOOMS STATIONS) AND THE SARGASSO SEA (BERMUDA BIO-OPTICS PROJECT)
31. Conmy, Robyn; Schaeffer, Blake A; Lehrter, John C; Aukamp, Jessica; Daniels, Kathleen; Craven, George - CHARACTERIZING INHERENT OPTICAL PROPERTIES WITHIN NORTHWESTERN FLORIDA ESTUARIES: A LOOK AT THE FORGOTTEN AND EMERALD COASTS

34. Arellano, Ana Rosa; Coble, Paula; Conmy, Robyn - AN INVESTIGATION OF INPUTS OF CARBON, NUTRIENTS, AND GROUNDWATER IN COASTAL FLORIDA USING COLORED DISSOLVED ORGANIC MATTER
37. Stoń-Egiert, Joanna; Majchrowski, Roman; Darecki, Mirosław; Ostrowska, Mirosława - INFLUENCE OF UNDERWATER LIGHT FIELDS ON PIGMENT CHARACTERISTICS IN THE BALTIC SEA – RESULTS OF STATISTICAL ANALYSIS
40. Röttgers, Rüdiger; McKee, David - EVALUATION OF *IN SITU* ABSORPTION MEASUREMENTS IN COASTAL WATERS
43. Berthon, Jean-Francois; Zibordi, Giuseppe; Canuti, Elisabetta; Jankowski, Lukasz - BACK-SCATTERING PROPERTIES OF THE EUROPEAN COASTAL WATERS
46. Voelker, Christoph David; Losch, Martin; Losa, Svetlana; Hohn, Soenke; Wolf-Gladrow, Dieter - PHOTOACCLIMATION AND THE CHL:C RATIO IN A GLOBAL MODEL OF MARINE PHYTOPLANKTON
49. Powers, Leanne; Fichot, Cedric; Miller, William - DEPTH RESOLVED RATES OF PHOTOCHEMICAL CARBON MONOXIDE PRODUCTION IN THE GULF OF MEXICO, A RIVER-DOMINATED COASTAL MARGIN
52. Toro-Farmer, Gerardo; Boss, Emmanuel; Lee, Craig; Cetinic, Ivona; Jones, Burton - USE OF HYPERSPECTRAL IOP MEASUREMENTS ON A TOWED VEHICLE TO RESOLVE PHYTOPLANKTON AND PARTICLE VARIABILITY IN A TIDALLY DRIVEN ARCHIPELAGO STRAIT
55. Ficek, Dariusz Antoni; Zapadka, Tomasz; Meler, Justyna - SPECTRAL ABSORPTION PROPERTIES OF OPTICALLY ACTIVE CONSTITUENTS IN POMERANIAN LAKES (POLAND)
58. Hilting, Anna K.; Currin, Carolyn A.; Gallegos, Charles L.- LIGHT AVAILABILITY ALONG A WATER QUALITY GRADIENT IN A SHALLOW ESTUARY: PATTERNS, RELATIONSHIPS, AND POTENTIAL IMPLICATIONS
61. Barnard, Andrew; Roesler, Collin; Orrico, Cristina - ASSESSING UNCERTAINTY OF *IN SITU* MEASUREMENTS OF CHLOROPHYLL AS A PROXY FOR PHYTOPLANKTON BIOMASS
64. Peperzak, Louis; Timmermans, Klaas; Wernand, Marcel; Van der Woerd, Hendrik - *IN SITU* PHYTOPLANKTON DYNAMICS COUPLED WITH APPARENT OPTICAL PROPERTIES IN A NOVEL MESOCOSM FACILITY
67. Gomes, Helga Do Rosario; Goes, Joaquim Ignacio; Matondkar, Prabhu; Basu, Subhajit; Parab, Sushma; Roesler, Collin; Werdell, Jeremy - OPTICAL PROPERTIES OF WINTER BLOOMS OF NOCTILUCA MILIARIS IN THE ARABIAN SEA
70. Balch, William - INSIGHTS FROM THE GULF OF MAINE NORTH ATLANTIC TIME SERIES (GNATS)- AN OPTICAL WINDOW INTO THE CHANGING BIOGEOCHEMISTRY OF THE COASTAL OCEAN
- 71a. Wang, Guifen; Cao, Wenxi; Zhou, Wen; Yang, Yuezhong - BIO-OPTICAL PROPERTIES OF SEAWATER IN THE NORTHERN SOUTH CHINA SEA

Optics of Oil in Coastal Waters

73. Hu, Chuanmin; Lee, ZhongPing; English, David; Ivey, James; Cannizzaro, Jennifer; Coble, Paula; Kovach, Charles - REMOTE DETECTION OF OIL SLICKS IN THE OCEAN: IS THERE AN OPTICAL SIGNATURE?

Oil Spill

76. Lewis, Mark David; Gould, Richard W; Ladner, Sherwin; Gallegos, Sonia; Jolliff, Jason; Bennert, Ellen; Li, Rong-Rong - SPECTRAL AND SPATIAL ANALYSIS OF THE GULF OF MEXICO OIL SPILL USING SATELLITE AND *IN SITU* DATA

Optical Shallow Water Mapping and Benthic Optics

79. Lapointe, Christopher J; Hochberg, Eric J - MAPPING CORAL REEF BENTHIC COMMUNITIES USING WORLDVIEW-2
82. Hirata, Takafumi; Brewin, Bob; Hardman-Mountford, Nick; Smyth, Tim; Hirawake, Toru; Saitoh, Sei-ichi; Ishizaka, Joji; Toratani, Mitsuhiro; Murakami, Hiroshi - NEW CHALLENGES IN SATELLITE RETRIEVALS OF MARINE PRODUCTS UNDER GLOBAL CLIMATE OBSERVATION MISSION

Organismal Response and Adaptation to the Light Field

85. Wojtasiewicz, Bozena; Stramski, Dariusz - CHLOROPHYLL-SPECIFIC ABSORPTION AND SCATTERING COEFFICIENTS OF SELECTED
88. Russell, Brandon; Dierssen, Heidi; Zimmerman, Richard - DYNAMIC VARIABILITY IN THE SPECTRAL-POLARIZED LIGHT FIELD MEASURED OVER SEAGRASS AND SAND HABITATS
91. Obata, Mitsuko; Taguchi, Satoru - PHOTOACCLIMATION STRATEGY OF PHOTOSYSTEM II REACTION CENTER IN PRIMNESIOPHYCEAE ISOCHRYSIS GALBANA AS EVALUATED BY VARIABLE CHLOROPHYLL FLUORESCENCE

Experimental Optics

94. McKee, David; Piskozub, Jacek; Röttgers, Rüdiger; Reynolds, Rick - EVALUATION OF AN ITERATIVE SCATTERING CORRECTION SCHEME FOR *IN SITU* ABSORPTION AND ATTENUATION MEASUREMENTS BASED ON MONTE CARLO MODELLING
97. Woods, Sarah; Piskozub, Jacek; Włodzimierz, Freda; Jonasz, Mirosław; Bogucki, Darek - LIGHT BEAM DEPOLARIZATION ON TURBULENT CONVECTIVE FLOW: LABORATORY MEASUREMENTS

Operational Environmental Optics and Remote Sensing

100. Lynch, Mervyn; Fearn, Peter; Klonowski, Wojciech; Majewski, Leon; Gray, Mark; Hacker, Jorg; Blake, Steve - HYPERSPECTRAL SENSING OF COASTAL SYSTEMS IN THE REMOTE REGIONS OF NW AUSTRALIA
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106. Vellucci, Vincenzo; Gentili, Bernard; Diamond, Emilie; Adams, Darrell; Dempsey, Cyril; Antoine, David - EVALUATION OF HYPERSPECTRAL RADIOMETRY FROM THE BOUSSOLE BUOY

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109. Lerebourg, Christophe; Mazeran, Constant; Huot, Jean-Paul; Antoine, David; Bourg, Ludovic; Delwart, Steven; Ondrusek, Michael; Lavender, Samantha; Goryl, Philippe - MERIS VICARIOUS ADJUSTMENT IN THE NEAR INFRA RED AND VISIBLE
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115. Mao, Zhihua - RELATIONSHIP BETWEEN SUSPENDED SEDIMENT CONCENTRATION AND REMOTELY SENSED REFLECTANCE
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121. Ahmed, Samir; Arnone, Robert; Gilerson, Alexander; Harmel, Tristan; Hlaing, Soe; Weidemann, Alan - MULTI- AND HYPERSPECTRAL OCEAN COLOR MEASUREMENTS FROM LONG ISLAND SOUND OBSERVATION PLATFORM (LISCO): COMPARISON WITH SATELLITE MEASUREMENTS & ASSESSMENTS OF UNCERTAINTIES
124. Fanton d'Andon, Odile; Garnesson, Philippe; Gilles, Nicolas; Demaria, Julien; Sardou, Olivier; Mazeran, Constant; Lerebourg, Christophe; Barrot, Gilbert; Bourg, Ludovic; Goryl, Philippe; Laur, Henri ODESA: THE OPTICAL DATA PROCESSOR OF ESA
127. Dong, Qiang; Shang, Shaoling; Lee, ZhongPing; Hong, Huasheng - A MODIFIED QAA TO DERIVE IOPS FROM OCEAN COLOR REMOTE SENSING
130. Son, SeungHyun; Wang, Menghua - ASSESSMENT OF MODIS-AQUA CHLOROPHYLL-A DATA IN THE CHESAPEAKE BAY
133. Frouin, Robert; Deschamps, Pierre-Yves; Dubuisson, Philippe - ESTIMATING CHLOROPHYLL FLUORESCENCE BY DIFFERENTIAL ABSORPTION IN THE OXYGEN B-BAND
136. Darecki, Mirosław - EUPHOTIC ZONE DEPTH IN STRATIFIED ARCTIC WATERS AND ITS REMOTE SENSING
139. Barker, Kathryn; Huot, Jean-Paul; Moore, Gerald; Mazeran, Constant; Lerebourg, Christophe; Lavender, Samantha - *IN-SITU* RADIOMETRIC MEASUREMENT PROTOCOL AND DATA ANALYSIS, INCLUDING THE EFFECTS OF TILT ON DOWNWELLING SOLAR IRRADIANCE
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145. Kishino, Motoaki; Furuya, Ken - COLORS OF RED TIDES: EXPERIMENTAL STUDIES ON COLOR OF PHYTOPLANKTON

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148. Zimmerman, Richard; Sukenik, Charles I; Hill, Victoria; Hu, Yongxiang - EXPLOITING LIDAR TO RETRIEVE PARTICLE DISTRIBUTIONS OF THE UPPER OCEAN

Near Surface Processes

154. Bhandari, Purushottam; Logan, Luke; Voss, Kenneth J - POLARIZED DOWNWELLING RADIANCE DISTRIBUTION NEAR THE OCEAN SURFACE
157. Hudson, Stephen; Hamre, Børge; Granskog, Mats; Stamnes, Jakob J. - FACTORS CONTROLLING LIGHT TRANSMISSION THROUGH THIN FIRST-YEAR ARCTIC SEA ICE - OBSERVATIONS AND MODELLING
160. Zhang, Xiaodong - SCATTERING BY PURE WATER AND PURE SEAWATER
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Bio-optics North

169. Matsuoka, Atsushi; Bricaud, Annick; Babin, Marcel - TRACKING THE TRANSPORTATION OF COLORED DISSOLVED ORGANIC MATTERS IN WESTERN ARCTIC WATERS: IMPLICATIONS FOR HYDROGRAPH OF THE ARCTIC OCEAN
172. Briggs, Nathan; Cetinic, Ivona; Gray, Amanda; Rehm, Eric; D'Asaro, Eric; Lee, Craig; Perry, Mary Jane - USING SPIKES IN OPTICAL MEASUREMENTS TO TRACK AN AGGREGATE FLUX EVENT FROM AUTONOMOUS PLATFORMS

New Instruments, Autonomous Vehicles and Other Platforms

175. Zielinski, Oliver; Wernand, Marcel R. - THE ECOLOR-SECCHI-DISC: AN ELECTRONIC REINVENTION OF PROVEN OCEAN COLOR TOOLS
178. Gainusa-Bogdan, Alina; Boss, Emmanuel - A NOVEL CONCEPT FOR MEASURING SEAWATER INHERENT OPTICAL PROPERTIES IN AND OUT OF THE WATER
181. Weidemann, Alan; Churnside, James; Donaghay, Percy; Katz, Joseph; MacFarland, Malcolm; Rines, Jan; Sullivan, James; Twardowski, Michael - MULTIPLE PLATFORM CHARACTERIZATION OF BIO-OPTICAL LAYERS IN EAST SOUND, WA
184. Piera, Jaume; Torrecilla, Elena; Pons, Sergi; Aymerich, Ismael Fernandez; Ross, Oliver Nicolas; Dañobeitia, Juan José; Artigas, Mireia Lara; Berdalet, Elisa; Simó, Rafel; Afinkiev, Teodor; Fernández, Roemi; Armada, Manuel - ANERIS. AN AUTONOMOUS PROFILER FOR CONCURRENT CHARACTERISATION OF PHYSICAL AND BIO-OPTICAL PROCESSES AT SMALL SCALES

Underwater Imaging and Photography

187. Sosik, Heidi M.; Olson, Robert J. - RECENT ADVANCES IN AUTOMATED UNDERWATER PLANKTON OBSERVATIONS WITH IMAGING FLOWCYTOBOT

Remote Sensing and Shallow Waters

190. Brockmann, Carsten; Sathyendranath, Shubha; Doerffer, Roland - TOWARDS OPERATIONAL COASTAL OCEAN COLOUR PRODUCTS – THE COASTCOLOUR APPROACH
193. Davis, Curtiss; Arnone, Robert; Gould, Richard; Corson, Michael; Lee, ZhongPing - THE HYPERSPECTRAL IMAGER FOR THE COASTAL OCEAN (HICO) PROVIDES A NEW VIEW OF THE COASTAL OCEAN

Particle Dynamics and Optical Processes

196. Spada, Frank Wayne; Chang, Grace; Twardowski, Michael; Freeman, Scott - COST EFFECTIVE PLATFORMS FOR THE DEPLOYMENT OF OPTICAL SENSORS IN DYNAMIC ENVIRONMENTS
199. Slivkoff, Matthew; Klonowski, Wojciech; Twardowski, Michael; Freeman, Scott - DETERMINING THE NEAR FORWARD VOLUME SCATTERING FUNCTION FROM THE LISST-100X PARTICLE SIZE ANALYZER
202. Ehn, Jens; Reynolds, Rick; Bélanger, Simon; Doxaran, David; Matsuoka, Atsushi; Stramski, Dariusz; Babin, Marcel - PARTICLE DISTRIBUTIONS ACROSS THE CANADIAN BEAUFORT SEA CONTINENTAL MARGIN INFERRED FROM *IN SITU* OPTICAL MEASUREMENTS

Bio-optics South

205. Oubelkheir, Kadija; Steven, Andrew D.L.; Ford, Phillip W.; Clementson, Lesley A. - BIO-OPTICAL AND BIOGEOCHEMICAL DYNAMICS OF A SUB-TROPICAL ESTUARY IN SOUTH-EAST QUEENSLAND, AUSTRALIA

Chairman's Choice

208. Bélanger, Simon; Ehn, Jens; Raimbault, Patrick; Leymarie, Edouard; Doxaran, David; Hooker, Stan; Babin, Marcel - ON THE ROLE OF SEA ICE MELTING ON NEAR-SURFACE VERTICAL VARIABILITY OF PARTICULATE ABSORPTION COEFFICIENT IN THE ARCTIC OCEAN
211. van Dijk, Mark Albert; Hoogveld, Hans L; Simis, Stefan G. H.; Kromkamp, Jacco C.; Gons, Herman J - SPECIFIC ABSORPTION SIGNATURES OF TAXONOMIC SUBPOPULATIONS IN PHYTOPLANKTON COMMUNITIES

New Instruments

214. Alley, Derek Michael; Mullen, Linda; Laux, Alan; McBride, Walton - EXTENDED RANGE, NON-LINE-OF-SIGHT (NLOS) UNDERWATER IMAGING USING A TIME VARYING INTENSITY (TVI) APPROACH
217. Haubrich, David; Fry, Edward S.; Kattawar, George W.; Musser, Joseph A. - INSTRUMENTATION TO MEASURE THE BACKSCATTERING COEFFICIENT FOR ARBITRARY PHASE FUNCTIONS

Remote Sensing of Bio-optical Properties

220. Stamnes, Knut; Li, Wei; Tanikawa, Tomonori; Hamre, Børge; Stamnes, Jakob A FAST YET ACCURATE ALGORITHM FOR RETRIEVAL OF AEROSOL AND MARINE PARAMETERS IN COASTAL WATERS
223. Neil, Claire; Cunningham, Alex; McKee, David; Polton, Jeff - IS THERE A LINK BETWEEN HYDROLOGICAL PROCESSES AND REMOTE SENSING REFLECTANCE IN COASTAL SEAS?

Remote Sensing of Phytoplankton Characteristics

226. Creanor, Danielle; Cunningham, Alex - ASSESSING THE SPATIAL VARIABILITY OF OPTICALLY SIGNIFICANT MATERIAL CONCENTRATIONS IN UK SHELF SEAS USING A SPECTRAL MATCHING APPROACH

Ocean and Coastal Optical Properties and Uncertainties

229. Neukermans, Griet; Loisel, Hubert; Mériaux, Xavier; McKee, David; Astoreca, Rosa; Doxaran, David; Ruddick, Kevin - VARIABILITY OF TOTAL, BACK AND SIDE SCATTERING TO MASS CONCENTRATION RATIO OF MARINE PARTICLES

Invited Speakers

236. Datskos, Panos; Rajic, Slobodan; Lavrik, Nikolay - NANO/MICRO-ELECTRO-MECHANICAL SYSTEMS (NEMS/MEMS): CANTILEVERS

Thursday, September 2010

Remote Sensing Systems and Shallow Water

Chairperson: Peter Fearn

- 0800 – 0820 Dekker, Arnold Graham; Phinn, Stuart R.; Anstee, Janet M.; Bissett, Paul; Brando, Vittorio E.; Casey, B.; Fearn, Peter; Hedley, John; Klonowski, Wojciech; Lee, ZhongPing; Lynch, Mervyn; Lyons, Mitchell; Mobley, Curtis; Roelfsema, Chris- MULTIPLE OPTICAL SHALLOW WATER INVERSION METHODS FOR BATHYMETRY, IN-WATER OPTICS, AND BENTHOS MAPPING : HOW DO THEY COMPARE?

- 0820 – 0840 Hedley, John; Roelfsema, Chris; Phinn, Stuart - PROPAGATING UNCERTAINTY THROUGH A SHALLOW WATER MAPPING ALGORITHM BASED ON RADIATIVE TRANSFER MODEL INVERSION
- 0840 – 0900 Kanitz, Thomas; Althausen, Dietrich; Engelmann, Ronny; Baars, Holger; Macke, Andreas - MULTIWAVELENGTH RAMAN AEROSOL OBSERVATIONS OF SAHARAN AND PATAGONIAN DUST ABOARD THE RESEARCH VESSEL POLARSTERN DURING ITS MERIDIONAL CRUISE ANT-26/1
- 0900 – 1920 Brockmann, Carsten; Sathyendranath, Shubha; Doerffer, Roland - TOWARDS OPERATIONAL COASTAL OCEAN COLOUR PRODUCTS – THE COASTCOLOUR APPROACH
- 0920 – 0940 Davis, Curtiss; Arnone, Robert; Gould, Richard; Corson, Michael; Lee, ZhongPing - THE HYPERSPECTRAL IMAGER FOR THE COASTAL OCEAN (HICO) PROVIDES A NEW VIEW OF THE COASTAL OCEAN
- 0940 – 1000 Pennucci, Giuliana - GLIDER DATA PROCESSING AND DATA COMPARISON IN OPTICAL PARAMETER ESTIMATION FOR ENVIRONMENTAL CHARACTERIZATION.
- 1000 – 1020 Break

Remote Sensing of Phytoplankton Characteristics

Chairperson: Blake Schaeffer

- 1020 – 1040 Bracher, Astrid; Sadeghi, Alireza; Dinter, Tilman; Schmitt, Bettina; Vountas, Marco; Röttgers, Rüdiger; Peecken, Ilka; Ye, Ying - PHYTOPLANKTON GROUPS FROM SPACE USING PHYTODOAS: IMPROVEMENTS BY MULTI-TARGET FITTING, YEARLY DATA SET, VALIDATION AND FIRST APPLICATION
- 1040 – 1100 Craig, Susanne Elizabeth; Jones, Chris T.; Cullen, John J.; Li, William K.W.; Lazin, Gordana; Horne, Edward; Caverhill, Carla - DERIVING OPTICAL METRICS OF ECOLOGICAL VARIABILITY FROM A COASTAL OCEAN OBSERVATION PROGRAM
- 1100 – 1120 Creanor, Danielle; Cunningham, Alex - ASSESSING THE SPATIAL VARIABILITY OF OPTICALLY SIGNIFICANT MATERIAL CONCENTRATIONS IN UK SHELF SEAS USING A SPECTRAL MATCHING APPROACH
- 1120 – 1140 Omachi, Claudia Yuki; Ferreira, Amábile; Garcia, Virginia Maria Tavano; Garcia, Carlos Alberto Eiras; Campos, Edmo José Dias - BIO-OPTICAL SIGNALS AND THE PHYTOPLANKTON FUNCTIONAL TYPES IN THE SOUTHWESTERN ATLANTIC OCEAN
- 1140 – 1200 Blondeau-Patissier, David; Brando, Vittorio E.; Dekker, Arnold G.; Phinn, Stuart R.; Weeks, Scarla J.; Schroeder, Thomas; Park, Young Je - PHYTOPLANKTON RESPONSE TO EPISODIC EVENTS AND LONG-TERM TRENDS IN THE GREAT BARRIER REEF LAGOONAL WATERS: TOWARDS A REGIONAL CHARACTERISATION.

1200 – 1330 LUNCH

Remote Sensing of Bio-optical Properties

Chairperson: Dirk Aurin

- 1330 – 1350 Lee, ZhongPing; Huang, Changchun; Lubac, Bertrand; Guo, Laodong; Ko, Dong-Shan; Lohrenz, Steven; Gould, Richard - CHARACTERIZATION OF SUSPENDED PARTICULATES IN THE NORTHERN GULF OF MEXICO FROM OCEAN COLOR REMOTE SENSING

- 1350 – 1410 Marrable, Daniel Stephen; Fearn, Peter; Lynch, Mervyn; Klonowski, Wojciech - SPECTRAL ANALYSIS OF ESTUARINE WATER FOR CHARACTERISATION OF INHERENT OPTICAL PROPERTIES AND PHYTOPLANKTON CLASSIFICATION
- 1410 – 1430 Martinez, Elodie Claire; Antoine, David; d’Ortenzio, Fabrizio; De Boyer Montegut, Clement - CHANGING CHARACTERISTICS OF PHYTOPLANKTON SPRING AND FALL BLOOMS IN THE NORTH ATLANTIC FROM THE 1980S’ TO 2000S’
- 1430 – 1450 Nechad, Bouchra; Ruddick, Kevin; Neukermans, Griet - REMOTE SENSING OF THE DIFFUSE ATTENUATION COEFFICIENT AND RELATED PARAMETERS IN TURBID WATERS: STATE OF THE ART AND FUTURE PERSPECTIVES
- 1450 – 1510 Stamnes, Knut; Li, Wei; Tanikawa, Tomonori; Hamre, Børge; Stamnes, Jakob - A FAST YET ACCURATE ALGORITHM FOR RETRIEVAL OF AEROSOL AND MARINE PARAMETERS IN COASTAL WATERS
- 1510 – 1530 Neil, Claire; Cunningham, Alex; McKee, David; Polton, Jeff - IS THERE A LINK BETWEEN HYDROLOGICAL PROCESSES AND REMOTE SENSING REFLECTANCE IN COASTAL SEAS?

Invited Lectures

Chairperson: Hubert Loisel

- 1600 – 1630 Alvain, Severine - LATEST NEWS ON REMOTE SENSING OF PHYTOPLANKTON FUNCTIONAL GROUPS: WHAT WE CAN DO NOW AND WHAT CAN WE EXPECT IN THE FUTURE?
- 1700 - 1730 Hu, Chuanmin - ONE INDEX, MANY APPLICATIONS

1900 – 2300 Awards Banquet Dinner / Dance

Friday, September 2010

Oil Spill

Chairperson: Robin Conmy

- 0900 – 0920 Pegau, William Scott; Wijesekera, Hemantha; Boyd, Tim; Moline, Mark - SPATIAL SCALES OF IRRADIANCE VARIABILITY
- 0920 – 0940 Coble, Paula; Hu, Chuanmin; Ivey, James; Kovach, Charles; Cannizzaro, Jennifer; English, David; Arellano, Ana; Barnes, Brian; Peebles, Ernst - OPTICAL PROPERTIES OF DISPERSED AND NON-DISPERSED OIL IN THE GULF OF MEXICO IN THE AFTERMATH OF THE DEEPWATER HORIZON BLOWOUT
- 0940 – 1000 Lewis, Mark David; Gould, Richard W; Ladner, Sherwin; Gallegos, Sonia; Jolliff, Jason; Bennert, Ellen; Li, Rong-Rong - SPECTRAL AND SPATIAL ANALYSIS OF THE GULF OF MEXICO OIL SPILL USING SATELLITE AND *IN SITU* DATA
- 1000 – 1020 Break

Invited Lectures

Chairperson: Del Castillo

- 1020 – 1050 Datskos, Panos; Rajic, Slobodan; Lavrik, Nickolay - NANO/MICRO-ELECTRO-MECHANICAL SYSTEMS (NEMS/MEMS): CANTILEVERS

1050 – 1120 Kattawar, George W. - OCEAN OPTICS IN THE NEAR FUTURE 5-10 YEARS OUT,
WHERE WE'RE HEADED AND CURRENT CHALLENGES

Closing Remarks

11:20 – 12:00