

WELCOME TO

OCEAN OPTICS

XXVII

SEPTEMBER 13-18, 2026
GHENT, BELGIUM

We hope you have a productive and enjoyable time here in Ghent. The following pages provide a quick guide to daily activities. Please use the QR codes to visit the conference website where you can read abstracts, learn more about activities, and read any late-breaking announcements.



**DAILY
AGENDA**



**PLENARY
SESSIONS**



**ORAL
SESSIONS**



**POSTER
SESSIONS**

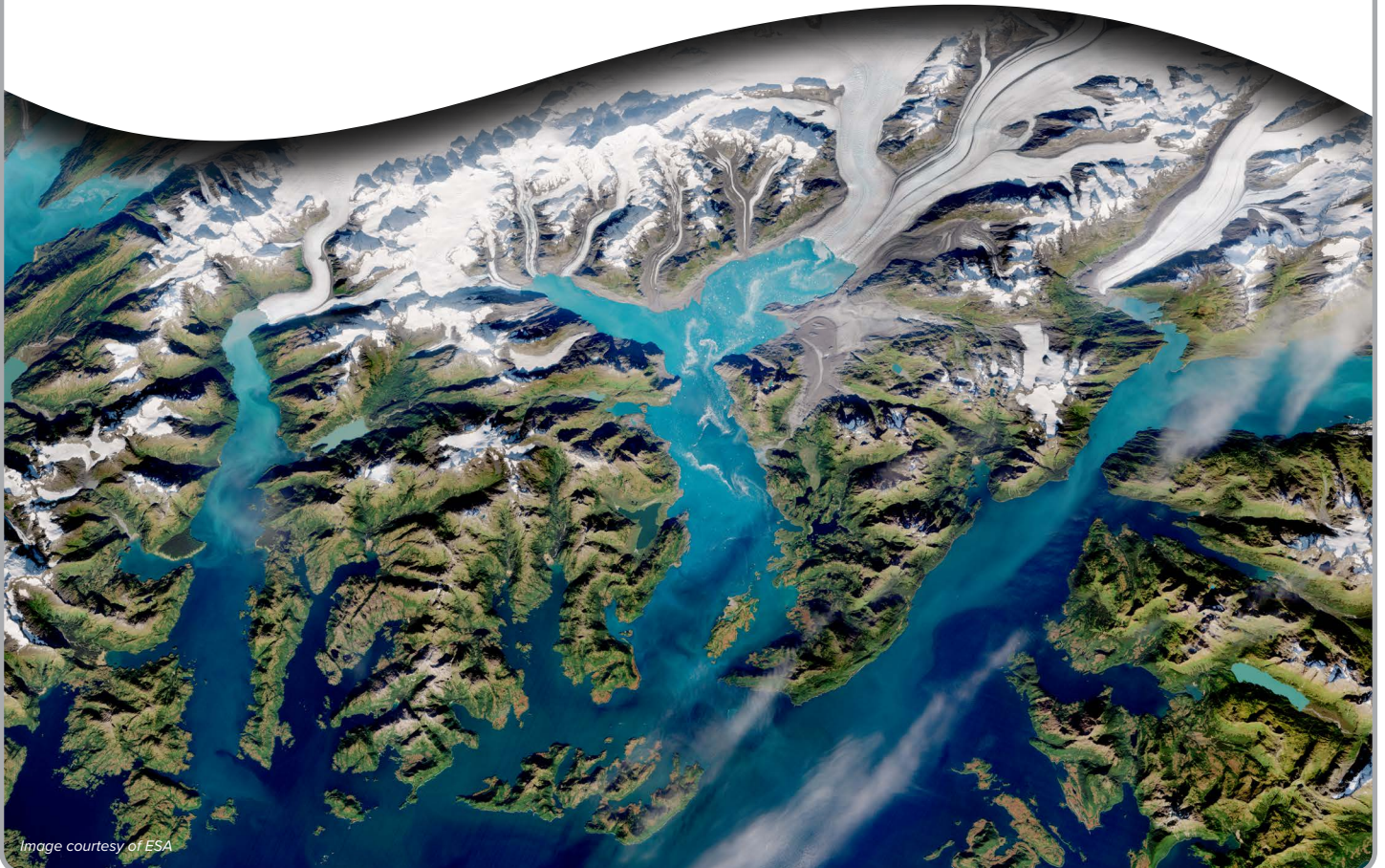


Image courtesy of ESA

CONTENTS

DAILY AGENDA

Monday.....	1
Tuesday.....	2
Wednesday	4
Thursday.....	6
Friday.....	8

POSTERS AND EXHIBITORS

Floor Plan	9
Our Exhibitors	10
Poster Session 1.....	11
Poster Session 2	17
Poster Session 3	23
Poster Session 4	29

CONFERENCE CONVENER



PRINCIPAL SPONSOR



CONFERENCE ORGANIZER



OUR SPONSORS



MONDAY, SEPTEMBER 14

SESSION LOCATIONS

POSTERS: Wintercircus Arena

ALL OTHER: Viernulvier Theater (doors open 30 minutes before the sessions start)

REGISTRATION

08:00–12:00: Viernulvier Theater Lobby

13:00–17:30: Wintercircus Grand Expo

09:30–10:30 **WELCOME AND PLENARY SESSION 1. THE PROBLEM WITH A MILLION SOLUTIONS: THE ART AND SCIENCE OF INTERPOLATING SPARSE OCEAN COLOUR OBSERVATIONS**
Aida Alvera-Azcárate

10:30–11:30 **COFFEE BREAK**

11:30–12:30 **ORAL SESSION 1. REMOTE SENSING OF FLOATING AND TROPICAL HABITATS**

GLOBAL KELP FOREST DYNAMICS OVER FOUR DECADES REVEALED BY SATELLITE REMOTE SENSING
Thomas Bell, Henry Houskeeper, and Kyle Cavanaugh

INTEGRATING REMOTE SENSING AND FIELD OBSERVATIONS: A WATER QUALITY FRAMEWORK FOR CORAL REEF MANAGEMENT IN PUERTO RICO
Alba Guzmán-Morales, William J. Hernández, and María Vega-Rodríguez

THERMAL SIGNATURE OF SARGASSUM AGGREGATIONS FROM LANDSAT 9 OBSERVATIONS
Amaia Fontan*, Julien Jouanno, Pierre-Etienne Brilouet, and Thibault Guinaldo

INTEGRATING SATELLITE OBSERVATIONS AND OCEAN HYDRODYNAMIC MODELLING TO RESOLVE SARGASSUM TRANSPORT TOWARD THE AMAZON COAST
Nelson Gouveia, Julio Lara Hernandez, Santiago Ramirez Said, Eduardo Tavares Paes, Eduardo Vitarelli de Queiroz, and Maycira Costa

12:30–14:00 **LUNCH BREAK** and Poster Setup

14:00–15:00 **ORAL SESSION 2. HYPERSPECTRAL OCEAN COLOUR REMOTE SENSING**

QUANTIFYING PIGMENTS AND DIATOM BIOMASS FROM PACE HYPERSPECTRAL REFLECTANCE: A GLOBAL-SCALE EVALUATION
Alison Chase, Sasha Kramer, Max Danenhower, Ivona Cetinic, Peter Gaube, Guillaume Bourdin, Nils Haentjens, Emmanuel Boss, and Lee Karp-Boss

MAPPING PARTICULATE INORGANIC CARBON (PIC) FROM PACE: ALGORITHM TESTING AND VALIDATION IN THE ICELANDIC BASIN AND THE NORTH SEA WITH COCCOLITHOPHORE BLOOM PHASE DETERMINATION FROM SPACE
Timotheus Fügl*, Qiming Sun, Catherine Mitchell, Ivona Cetenic, Jeremy Werdell, and Griet Neukermans

CHARACTERIZING SPECTRAL NOISE COVARIANCE IN PACE OCI LEVEL-1B IMAGERY
Jing Tan and Robert Frouin

SPATIAL, SPECTRAL AND NOCTURNAL OBSERVATION CAPABILITIES OF A FUTURE SATELLITE MISSION FOR COASTAL AND INLAND AQUATIC ECOSYSTEMS (GALENE)
Malik Chami, Astrid Bracher, Mariano Bresciani, Xavier Briottet, Maycira Costa, Alexander Damm-Reiser, Arnold Dekker, Shungudzemwoyo Garaba, Peter Gege, Claudia Giardino, Els Knaeps, Tiit Kutser, Stefan Livens, Richard Lucas, Daniel Odermatt, Gerard Otter, Nicole Pinnel, Sindy Sterckx, and Marco Celesti

15:00–15:20 **POSTER LIGHTNING TALKS**

15:30–17:30 **POSTER SESSION 1** and Refreshment Break

TUESDAY, SEPTEMBER 15

SESSION LOCATIONS

POSTERS: Wintercircus Arena

ALL OTHER: Viernulvier Theater (doors open 30 minutes before the sessions start)

REGISTRATION

08:30–17:30: Wintercircus Grand Expo

09:00–09:45 **PLENARY SESSION 2. BIO-OPTICAL OBSERVATIONS FROM AUTONOMOUS PROFILING PLATFORMS: FROM CONCEPT TO THE BGC-ARGO ERA**

Hervé Claustre

09:45–10:15 **ORAL SESSION 3. BIOGEOCHEMICAL-ARGO FLOAT OBSERVATIONS OF PHYTOPLANKTON PROPERTIES**

AN IN SITU MULTI-WAVELENGTH EXCITATION FLUOROMETER FOR PHYTOPLANKTON TAXA OBSERVATIONS ON ARGO FLOATS

Xiaogang Xing and Gaofang Yin

INVERSION OF HYPERSPECTRAL RADIOMETRIC PROFILES FROM BGC-ARGO FLOATS TO RETRIEVE THE VERTICAL STRUCTURE OF PHYTOPLANKTON PHOTOPHYSIOLOGY

Bruno Cremella, Yannick Huot, Lou Andrés, Edouard Leymarie, Vincenzo Vellucci, and Hervé Claustre

10:15–10:30 **POSTER LIGHTNING TALKS**

10:30–12:30 **POSTER SESSION 2** and Coffee Break

12:30–14:15 **LUNCH BREAK**

14:15–15:30 **ORAL SESSION 4. ATMOSPHERIC AND SURFACE REFLECTION CORRECTION**

SATELLITE OCEAN COLOR REMOTE SENSING UNDER LARGE SOLAR ZENITH ANGLES

Xianqiang He, Hao Li, Yan Bai, and Yifan Zhang

SPECTRALLY SELF-CONSISTENT GASEOUS ABSORPTION CORRECTION FOR PACE OCI

Robert Frouin and Jing Tan

DEEPLINT S2: A DEEP LEARNING METHOD FOR SUN GLINT CORRECTION OF ATMOSPHERICALLY CORRECTED SENTINEL 2 IMAGERY

Milad Niroumand-Jadidi, Peter Gege, Lorenzo Mentaschi, and Sonia Silvestri

SPECTRAL FACTORS FOR THE REMOVAL OF GLINT PERTURBATIONS IN ABOVE-WATER RADIOMETRY

Barbara Bulgarelli, Giuseppe Zibordi, Davide D'Alimonte, and Tamito Kajiyama

AQUA3C-S: A SPECTRALLY RESOLVED THREE-COMPONENT GLINT CORRECTION MODEL FOR IN SITU ABOVE-WATER RADIOMETRY FOR DIVERSE SUN-SENSOR GEOMETRIES

Soham Mukherjee, Tristan Harmel, Zoé Besnard, and Sabine Marty

15:30–16:30 **COFFEE BREAK**

16:30-17:45

ORAL SESSION 5. PHYTOPLANKTON BIO-OPTICS AND ECOLOGY

TIMING IN PRODUCTION AND GRAZING IN THE SUBARCTIC NORTH PACIFIC AND ATLANTIC OCEANS
REVEALED BY DIEL VARIATIONS IN PHYTOPLANKTON BIOMASS AND SIZE STRUCTURE

Collin Roesler, Heidi M. Sosik, E. Taylor Crockford, Susan L. Drapeau, and Emily E. Peacock

HIGH PERFORMANCE OF PHYTOPLANKTON PIGMENT ESTIMATION IN THE ATLANTIC OCEAN FROM
HYPERSPECTRAL ABOVE-WATER REFLECTANCE

Thomas Jordan, Gavin Tilstone, Junfang Lin, Robert Brewin, Giorgio Dall'olmo, Federico Ienna,
Carlos Rafael Mendes, Raul Costa, Crystal Thomas, Maria Laura, Emanuele Organelli,
and Victor Martinez-Vicente

ASSESSING THE EFFECTS OF TEMPERATURE AND SALINITY ON DINOFLAGELLATE BIOLUMINESCENCE

Abigail Blackburn, Francis Letendre, Owen Dillahay, and Michael Twardowski

BIO-OPTICAL INDICATORS OF DIATOMS IN THE OLIGOTROPHIC NORTH PACIFIC SUBTROPICAL GYRE:
IMPLICATIONS FOR REMOTE SENSING

Paige Dillen*, Angelique White, and Fernanda Henderikx-Freitas

OMICS-BASED PROKARYOTIC DIVERSITY ACROSS THE MEDITERRANEAN SEA USING MACHINE
LEARNING, OCEAN COLOR, AND ENVIRONMENTAL DATA

Christian Marchese, Maria Laura Zoffoli, Pierre Ramond, Ramiro Logares, François-Yves Bouget,
Pierre E. Galand, Tinkara Tinta, Neža Orel, Gianluca Volpe, Angela Landolfi, and Emanuele Organelli

WEDNESDAY, SEPTEMBER 16

SESSION LOCATIONS

POSTERS: Wintercircus Arena

ALL OTHER: Viernulvier Theater (doors open 30 minutes before the sessions start)

REGISTRATION

08:30–17:30: Wintercircus Grand Expo

09:00–09:45 **PLENARY SESSION 3. MEASURING OPTICAL PROPERTIES OF OCEAN WATERS: PAST, PRESENT, AND FUTURE PERSPECTIVES**

Wayne Slade

09:45–10:30 **ORAL SESSION 6. LONG-TERM OCEAN COLOUR RECORDS AND CLIMATE CHANGE**

EAST ANTARCTIC POLYNYAS ARE GROWING AND GREENING

Leo Rolland*, Sophie Bestley, Christina Schallenberg, and Jakob Weis

RIVER PLUME MAPPING USING TRANSITIONAL SYSTEM OPTICAL WATER TYPES

Elizabeth Atwood and Andy Rees

ENHANCING OCEAN COLOUR CLIMATE RECORDS WITH OC CCI VERSION 7

Salem Ibrahim Salem, Shubha Sathyendranath, Andre Valente, Andrei Chuprin, Constant Mazeran, Théo Renard, Jaime Pitarch, Astrid Bracher, Vittorio Brando, Vanda Brotas, Emmanuel Devred, Robert Frouin, Hiroto Higa, Joji Ishizaka, Piotr Kowalczyk, Atsushi Matsuoka, Carlos Mendes, Heeyoon Park, Valeria Segura, Emanuele Organelli, and Steve Groom

10:30–11:30 **COFFEE BREAK**

11:30–12:30 **ORAL SESSION 7. OCEAN LIDAR: TECHNOLOGIES AND APPLICATIONS**

HIGH-RESOLUTION SPAD FLASH LIDAR FOR 3D IMAGING IN TURBID AQUATIC ENVIRONMENTS

Jannis Holzer, David Nguyen, Eleonoor Bosch, Enrico Manuzzato, Leonardo Gasparini, and Christophe Pache

AN END-TO-END RADIATIVE TRANSFER SIMULATOR FOR OCEAN LIDAR: APPLICATIONS TO FUTURE SPACE MISSIONS

Lorenza Masi*, Paolo Di Girolamo, Marco Di Paolantonio, Giovanni Giuliano, Gian Luigi Liberti, Gianluca Volpe, Andrea Andrisani, Sara Venafrà, Simona Zoffoli, Alexei Rozanov, Cédric Jamet, Iwona Sylwia Stachlewska, Lucile Duforêt-Gaurier, Rafael Avila-Simao, Lucja Janicka, Tycjan Kossowski-Kołodziej, Donato Summa, and Davide Dionisi

A UNIFIED APPROACH TO SUSPENDED PARTICULATE MATTER RETRIEVAL FROM RAMAN-NORMALIZED LIDAR BACKSCATTER IN NATURAL WATERS

Aleksandr Molkov, Vadim Pelevin, and Ekaterina Koltsova

VERTICAL STRUCTURE OF OCEAN COLOR USING AN AIRBORNE LIDAR IN CAPE VERDE

Rafael Simao*, Cédric Jamet, Julien Delanoë, Emmeline François, Sophie Bounissou, Cyrille Flamant, and Eric Lecuyer

12:30–14:00 **LUNCH BREAK**

14:00–15:15	ORAL SESSION 8. IN SITU OPTICAL MEASUREMENTS AND CLOSURE HODR: DEVELOPMENT OF A HIGH DYNAMIC RANGE SPECTROMETER FOR SENSITIVE MEASUREMENT OF BIOLOGICALLY RELEVANT ARTIFICIAL LIGHT POLLUTION Ruairidh Wallace and David McKee AUTONOMOUS SHIP-BASED UNDERWAY OPTICAL AND HYPERSPECTRAL OBSERVATIONS FOR IMPROVED BIOGEOCHEMICAL SENSING OF SURFACE WATERS OF THE NORTH SEA Lisa Calus*, Griet Neukermans, Qiming Sun, Alexandre Castagna, and Clemence Goyens EVALUATION OF HYPERSPECTRAL BACKSCATTERING RETRIEVALS ACROSS THE COASTAL AND OPEN ATLANTIC OCEAN Xavier Warren*, Gavin Tilstone, Thomas M. Jordan, and Heidi Dierssen TOWARDS OPTICAL CLOSURE IN A HIGHLY SCATTERING COCCOLITHOPHORE BLOOM Cait McCarry, Brynn Presler-Marshall, Farley Miller, Catherine Mitchell, Alex Poulton, and David McKee BACKSCATTERING BY $< 0.2 \mu\text{m}$ PARTICLES IN THE OCEANS Xiaodong Zhang and Yuanheng Xiong
15:15–15:30	POSTER LIGHTNING TALKS
15:30–17:30	POSTER SESSION 3 and Refreshment Break

THURSDAY, SEPTEMBER 17

SESSION LOCATIONS

POSTERS: Wintercircus Arena

ALL OTHER: Viernulvier Theater (doors open 30 minutes before the sessions start)

REGISTRATION

08:30–12:30: Wintercircus Grand Expo

13:00–17:00: Viernulvier Theater Lobby

09:00–09:45	PLENARY SESSION 4. PROGRESS AND GAPS IN OCEAN COLOR REMOTE SENSING OF COASTAL WATER Zhongping Lee
09:45–10:15	ORAL SESSION 9. SATELLITE OBSERVATIONS OF OCEAN BIOGEOCHEMISTRY RESOLVING COASTAL CO ₂ DYNAMICS IN THE NORTH SEA AT UNPRECEDENTED RESOLUTION COMBINING OCEAN COLOUR SATELLITE AND MACHINE LEARNING APPROACHES Andrea van Langen Rosón*, Clémence Goyens, Alizée Roobaert, Peter Landschützer, and Griet Neukermans A PROPOSED OPERATIONAL OCEAN COLOUR PRODUCT FOR GLOBAL SURFACE OCEAN DIMETHYLSULFIDE ESTIMATION Shrivardhan Hulswar, Martí Galí Tàpias, and Rafel Simó
10:15–10:30	POSTER LIGHTNING TALKS
10:30–12:30	POSTER SESSION 4 and Coffee Break – Poster takedown at end of session
12:30–14:00	LUNCH BREAK
14:00–15:15	ORAL SESSION 10. BGC-ARGO AND POLARIMETRIC REMOTE SENSING OF AQUATIC ENVIRONMENTS BEYOND THE EUPHOTIC ZONE: A BIO-OPTICAL FRAMEWORK FOR OCEAN VERTICAL PARTITIONING Giovanni La Forgia, Mengyu Li, and Emanuele Organelli A CONSISTENCY CHECK BETWEEN BGC-ARGO AND SATELLITE-DERIVED DIFFUSE ATTENUATION COEFFICIENT AND INHERENT OPTICAL PROPERTIES Xiaolong Yu, Zhongping Lee, Xiuling Wu, Xiaogang Xing, Xu Li, and Yankun Hou LINKING DISSOLVED ORGANIC CARBON PRODUCTION TO CARBON SEQUESTRATION IN THE NORTH ATLANTIC SUBTROPICAL GYRE Mengyu Li, Marco Bellacicco, Gemma Kulk, Bror Jönsson, Mayra Rodriguez, Bruno Buongiorno Nardelli, Xuerong Sun, Giovanni La Forgia, and Emanuele Organelli LEVERAGING PACE MULTI-ANGLE POLARIMETRY FOR OCEAN BIOGEOCHEMISTRY Brent McBride, Patrick Gray, B.B. Cael, Lorraine Remer, and Emmanuel Boss VERY-HIGH-RESOLUTION MULTISPECTRAL POLARIMETRY FOR COASTAL MONITORING AND WATER-QUALITY RETRIEVAL Wafaa Bousaid, Julien Chouillou, Lucas Dubois, Daniel Luque, and Oussama Rhaki
15:15–16:00	BREAK

16:00–17:00	ORAL SESSION 11. REMOTE SENSING OF SURFACE FILMS AND FLOATING MATERIAL OBSERVATION OF SARGASSUM FROM A LONG-RANGE DRONE TO IMPROVE SATELLITE DETECTION AND DRIFT SIMULATIONS Marianne Debue, Sarah Barbier, Etienne Blot, Warren Daniel, Michel Gavart, Florian Gibier, Thibault Guinaldo, Julien Metge, Stéphane Saux-Picart, and Eric Vogel OPTICAL SIGNATURES OF DISPERSED OIL AND MICROPLASTICS IN SEAWATER: IMPLICATIONS FOR REMOTE SENSING Kamila Haule, Włodzimierz Freda, Henryk Toczek, Emilia Baszanowska, Artur Bizewski, Mirosław Darecki, and Sławomir Sagan OPTICAL MEASUREMENT OF OIL SLICK THICKNESS USING ACTIVE INTERFEROMETRY Jean Pierre Obeid*, Yoav Lehahn, Atef Shalabney, Aviv Solodoch, and Eyal Rahav LONG-TERM REMOTE SENSING OF NATURAL OIL SLICK DYNAMICS IN THE SANTA BARBARA CHANNEL Camille Pawlak*, Logan Jewell, and Henry Houskeeper
17:00–19:00	FREE TIME
19:00– UNTIL LATE	BANQUET The registration fee includes an invitation for all attendees, exhibitors, and guests to participate in the Thursday night banquet, taking place at Cotton Cube. Join your colleagues for an evening of food, music, and good company. After dinner, we'll move to the dance floor!

FRIDAY, SEPTEMBER 18

SESSION LOCATIONS

Viernulvier Theater (doors open 30 minutes before the sessions start)

REGISTRATION

09:30–12:30: Viernulvier Theater Lobby

09:45–10:30

PLENARY SESSION 5. PHYTOPLANKTON AND THE BIOLOGICAL CARBON PUMP: A VIEW FROM SPACE

Gemma Kulk

10:30–11:15

ORAL SESSION 12. DISSOLVED ORGANIC CARBON (DOC) AND OCEAN CARBON CYCLING

ESTIMATING AND MONITORING DISSOLVED ORGANIC CARBON (DOC) FROM SPACE ACROSS
THE GLOBAL OCEAN, WITH A FOCUS ON THE NORTHWEST EUROPEAN SHELF

Marie Montero, Roy El Hourany, Daniel S.F. Jorge, Marine Bretagnon, Vincent Vantrepotte,
Arnaud Cauvin, Aurélien Prat, Ana Gabriela Bonelli, Lucile Duforêt-Gaurier, Antoine Mangin,
and Hubert Loisel

HYPERSPECTRAL MONITORING OF DOC BIOGEOCHEMISTRY ACROSS ESTUARINE TO SHELF WATERS
Joshua Harringmeyer and Maria Tzortziou

HIGH RESOLUTION AIRBORNE AND SATELLITE REMOTE SENSING OBSERVATIONS OF COASTAL
DISSOLVED ORGANIC CARBON DYNAMICS ALONG THE NORTH SLOPE OF ALASKA
Maria Tzortziou and Jonathan Sherman

11:15–12:00

BREAK

12:00–12:45

ORAL SESSION 13. HYPERSPECTRAL IN SITU SENSING

PUSHING (AND USING) THE SPECTRAL FRONTIER OF OCEAN COLOUR: AQUATIC REFLECTANCE
IN THE UV (350–400 NM)

Kevin Ruddick and Quinten Vanhellemont

ADVANCED SHADOW CORRECTION FOR COASTAL HYPERSPECTRAL-LIDAR FUSION PRODUCTS:
ADDRESSING RADIOMETRIC CHALLENGES IN BELOW-CLOUD OCEAN OPTICS

Joseph Harwood and Nicholas Johnson

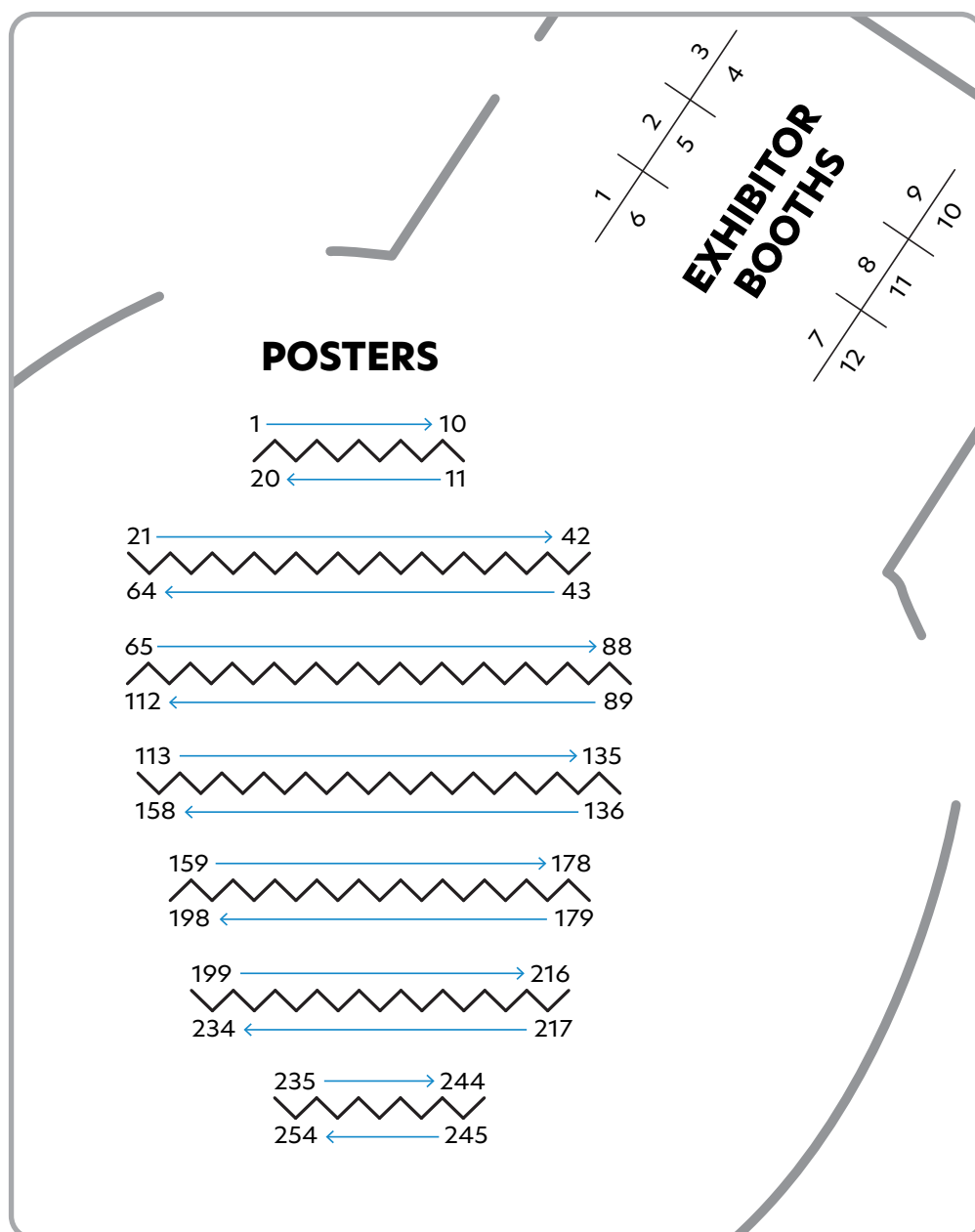
ADVANCES IN OCEAN COLOUR REMOTE SENSING WITHIN RENOMO – BRAZILIAN NATIONAL
OCEAN OBSERVATION AND MONITORING NETWORK

Fernanda Giannini, Priscila Lange, Ana Paula Forgiarini, Aurea Ciotti, Lino Sander, Vitor Cardoso,
Wesley Santana, Catharina Cardoso, and Nikolas Heinz

12:45

STUDENT PRESENTATION AWARDS AND CLOSING REMARKS

POSTER SESSIONS AND EXHIBITORS



POSTER
SESSIONS



EXHIBITORS



DAILY
AGENDA

OUR EXHIBITORS



beam-sea.com



biospherical.com
ems-sistemas.com

CHELSEA
TECHNOLOGIES

chelsea.co.uk



**HYPERSPECTRAL
DEVICES**

jb-hyperspectral.com



LIFE LiDAR
Laser-Induced Fluorescence environmental

lifelidar.com



MarSens
MARINE OPTICS
& REMOTE SENSING

marsens-ugent.be



rovin.eu

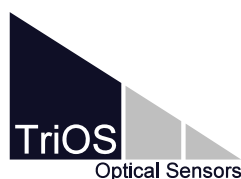


**SEA-BIRD
SCIENTIFIC**

seabird.com



sequoiasci.com



trios.de



vito
Remote Sensing

remotesensing.vito.be



waterinsight.nl

POSTER SESSION 1

15:30–17:30, MONDAY, SEPTEMBER 14

POSTER 1

OC-RT: A VECTOR RADIATIVE TRANSFER SIMULATOR FOR GOCI-III ATMOSPHERIC CORRECTION AND OCEAN COLOR APPLICATIONS

Jae-Hyun Ahn, Xianqiang He, Kyeong-Sang Lee, Tai-Hyun Han, Eunna Jang, Su-Jung Bae, Sun-Ju Lee, and Jong-Kuk Choi

POSTER 5

HYPERSPECTRAL RADIOMETRY IN THE OPEN OCEAN: BGC-ARGO FLOATS SUPPORTING SATELLITE VALIDATION

Lou Andres*, Vincenzo Vellucci, Emanuele Organelli, Agnieszka Bialek, Edouard Leymarie, Nils Haëntjens, Marine Bretagnon, Antoine Poteau, Antoine Mangin, Charlotte Begouen Demeaux, and Hervé Claustre

POSTER 9

MODELING GLIMR'S ON-ORBIT RADIOMETRIC PERFORMANCE AND MAPPING THE SEASONAL IMAGERY ACQUISITION SCHEDULE

Dirk Aurin, Antonio Mannino, Emerson Sirk, Arlo Johnson, Akhter Nafi, Ryan Vandermuelen, and Amir Ibrahim

POSTER 13

THE DESIGN OF THE CRETE COPERNICUS OCEAN COLOUR SYSTEM VICARIOUS CALIBRATION (OC-SVC) INFRASTRUCTURE

Andrew Banks, Scott Greenwell, Tom Parkes, Agnieszka Bialek, Clemens Rammeloo, Constant Mazeran, Davide D'Alimonte, Tamito Kajiyama, Aristomenis Karageorgis, Stella Psarra, Nektarios Spyridakis, Spyros Mavrakos, Dimitris Konispoliatis, Vincenzo Vellucci, Nikos Kalivitis, Maria Kanakidou, Dimitris Balis, Spilios Dellis, Nikos Kontos, Tim Warren, Jon Powell, John Day, Alexandros Paraskevas, and Ewa Kwiatkowska

POSTER 17

ANALYSIS OF COCCOLITHOPHORE BLOOMS BY SATELLITE REMOTE SENSING IN THE GULF OF ST. LAWRENCE

Jennyfer Beaulieu-Gagnon*, Julien Laliberté, El Mahdi Bendif, and Simon Bélanger

POSTER 21

USING GOES TO ESTIMATE SARGASSUM AGGREGATION DRIFT VELOCITY

Leo Berline, Audrey Minghelli, Boubaker Elkilani, and Jacques Descloitres

POSTER 25

PERFORMANCE OF OC-CCI AND LAKES-CCI CHLOROPHYLL-A PRODUCTS OVER THE LAURENTIAN GREAT LAKES AND IMPLICATIONS FOR DETECTING TIPPING POINTS IN LAKE ECOLOGICAL STATUS

Caren Binding, Varunan Theenathayalan, Daniel Odermatt, Iestyn Woolway, Elisa Calamita, Ann Scheliga, Laura Boyall, and Luiz Oliveira

POSTER 29

HIGH CHLOROPHYLL EVENTS ALONG THE PERTH COASTLINE

Varshani Brabakaran*, Charitha Pattiaratchi, and Yasha Hetzel

POSTER 33

ASSESSING SATELLITE-DERIVED CHLOROPHYLL-A AND KD USING BGC-ARGO DATA AND TRIPLE COLLOCATION

Marine Bretagnon, Raphaëlle Sauzède, Hervé Claustre, Philippe Bryère, Julia Uitz, Catherine Schmechtig, Héloïse Lavigne, and Antoine Mangin

POSTER 37

MONITORING CLIMATE-DRIVEN SHIFTS IN PHYTOPLANKTON AND MARINE LIGHTSCAPES IN THE WESTERN BALTIC SEA

Bronwyn Cahill, Madhusmita Dash, Helena Frazao, Ulf Graewe, Robert Mars, Chandanlal Parida, Eefke van der Lee, and Thorger Bruening

POSTER 41

OLCI SENTINEL-3 AS A MONITORING TOOL FOR HIGHLY COMPLEX WATERS IN BRAZIL'S SOUTHERN COAST

Vitor Cardoso* and Maria Fernanda Giannini

POSTER 45

GLOBAL DETECTION OF RED AND GREEN NOCTILUCA SCINTILLANS BLOOMS USING SENTINEL-2 IMAGES AND ADVANCED MACHINE LEARNING

Xingda Chen*, Griet Neukermans, and Shuisen Chen

POSTER 49

INTEGRATING SPECTRAL ANGLE MAPPER INTO OPTICAL WATER CLASSIFICATION FOR ENHANCED ENVIRONMENTAL MONITORING: A CASE STUDY ON THE COASTAL WATERS OFF SAGRES (SOUTHERN PORTUGAL)

Cristiano Ciccarelli, Massimiliano Lega, and Sónia Cristina

POSTER 53

MULTIWAVELENGTH HIGH SPECTRAL RESOLUTION LIDAR FOR MEASURING OCEAN OPTICAL PROPERTIES

Brian Collister, Johnathan Hair, Chris Hostetler, Anthony Cook, Taylor Shingler, Marta Fenn, Amy Jo Scarino, David Harper, Amin Nehrir, Yuleny Gomez Rodriguez, Rebecca Walsh, and Matt Oliver

POSTER 57

MAPPING HARMFUL ALGAL BLOOMS USING UAV-BASED HYPERSPECTRAL REFLECTANCE: A STEP FOR MONITORING COASTAL WATER QUALITY

Madhusmita Dash, Chandanlal Parida, Bronwyn Cahil, Laurenz Walden

POSTER 61

SENTINEL-3 OLCI COLLECTION 4 WATER PROCESSING

David Dessailly, Juan Ignacio Gossn, Francesco D'Amico, Ewa Kwiatkowska, Estelle Obligis, Bojan Bojkov

POSTER 65

OCEAN COLOR FROM EARTHCARE MEASUREMENTS: THE OCEAN PROJECT

Davide Dionisi, Claudia Cesarini, Simone Colella, Davide D'Alimonte, Paolo Di Girolamo, Marco Di Paolantonio, Giovanni Giuliano, Cédric Jamet, Tamito Kajiyama, Giovanni La Forgia, Mengyu Li, Lorenza Masi, and Emanuele Organelli

POSTER 69

WATER REFLECTANCE MATCHUPS BETWEEN MULTI-SENSOR SATELLITE DATA AND FIELD AUTONOMOUS MEASUREMENTS IN FRENCH NEARSHORE WATERS

David Doxaran, Denis Pailler, Robert Schlegel, Kevin Ruddick

POSTER 73

OPTICAL REMOTE SENSING REVEALS A WEAKENING NEARSHORE SEDIMENT LIFELINE FOR U.S. COASTAL WETLANDS UNDER RISING SEAS

Cédric Fichot, Hangjie Lin, and Sergio Fagherazzi

POSTER 77

THE ROLE OF EMBAYMENTS AND ESTUARIES IN SECCHI DEPTH VARIABILITY ALONG A SALINITY GRADIENT IN THE SOUTHERN COASTAL BALTIC SEA: A 50-YEAR PERSPECTIVE

Helena Frazão, Mario von Weber, Chandanlal Parida, Ulf Gräwe, Bronwyn Cahill, and Oliver Zielinski

POSTER 81

WHEN AND WHERE THE OCEAN BLOOMS: CHANGING PHYTOPLANKTON PHENOLOGY IN ARCTIC SEAS

Rafael Gonçalves-Araujo, Bodil Toftegård, Dominik Lis, Piotr Kowalczyk, and Mirosław Darecki

POSTER 85

REMOTE OBSERVATIONS OF BLOOMS OF RED NOCTILUCA SCINTILLANS IN THE NORTH SEA BETWEEN 2000 AND 2025

Madjid Hadjal, Brian Barnes, Chuanmin Hu, and Inga Kirstein

POSTER 89

A PAN-ARCTIC PIGMENT DATABASE FOR PHYTOPLANKTON AND SEA-ICE ALGAE

Asta Heidemann*, Rafael Gonçalves-Araujo, and Alexander Hayward

POSTER 93

EVALUATION OF PARTICLE SIZE DISTRIBUTION OF SURFACE SEAWATER CONTINUOUSLY MEASURED WITH FLOW IMAGING MICROSCOPY IN THE SOUTHERN OCEAN

Toru Hirawake, Ryosuke Makabe, and Shintaro Takao

POSTER 97

OCEAN LIDAR STUDY (OLIS): PHASE 0 FOR A BLUE-GREEN OCEANIC PROFILING LIDAR SPACE MISSION

Cedric Jamet, Paolo Di Girolamo, Davide Dionisi, Marco Di Paolantonio, Lucile Duforêt-Gaurier, Giovanni Giuliano, Lucja Janicka, Tycjan Kossowski-Kołodziej, Gian Luigi Liberti, Lorenza Masi, Alexei Rozanov, Rafael Simao, Iwona Stachlewska, and Donato Summa

POSTER 101

STUDYING PHYSICAL AND BIOGEOCHEMICAL CONTEXT OF MARINE BIOLUMINESCENCE IN THE NORTHWESTERN MEDITERRANEAN SEA USING IN SITU GLIDERS AND SATELLITE MEASUREMENTS

Frédéric Jourdin, Bastien Detemmerman, Anne-Gaëlle Bretéché, Andrea Hay, Nagib Bhairy, Christopher Luneau, Jean-Luc Fuda, and Séverine Martini

POSTER 105

EFFICIENT NON-ANALOG MONTE CARLO SIMULATION OF UNDERWATER VISIBILITY AND IMAGING IN A COUPLED OCEAN-ATMOSPHERE SYSTEM

Arseniy Kargin* and Derya Akkaynak

POSTER 109

FIVE-YEAR MONITORING OF COASTAL MARINE DEBRIS ON UNINHABITED ISLANDS USING HIGH-RESOLUTION OPTICAL SATELLITE IMAGERY

Taeho Kim and Ho-Kun Jeon

POSTER 113

BIO_OPTICS X JAX: A DIFFERENTIABLE BIO-OPTICAL INVERSION FRAMEWORK FOR WATER QUALITY RETRIEVAL AND BENTHIC MAPPING

Marcel König, Ralf Quast, Dagmar Müller, Gregory P. Asner, Nicholas R. Vaughn, Kerstin Stelzer, and Carsten Brockmann

POSTER 117

MODELING SURFACE OCEAN EUKARYOTIC PHYTOPLANKTON COMMUNITY COMPOSITION FROM 18S RRNA GENE SEQUENCING WITH IN SITU HYPERSPECTRAL REMOTE SENSING REFLECTANCE

Sasha Kramer and Roy El Hourany

POSTER 121

TOWARDS AN AUTONOMOUS INTEGRATED SHIPBORNE ABOVE-WATER SPECTROMETER SYSTEM

Marnix Laanen, Steef Peters, and Semhar Ghezehegn

POSTER 125

RELATIONSHIPS BETWEEN PHYTOPLANKTON BIOMASS, SIZE DISTRIBUTION, AND YELLOWFIN TUNA PRESENCE USING SENTINEL 3/OLCI AND FISHERIES DATA IN THE EASTERN TROPICAL PACIFIC

Lea Schamberger, Camille Keisser, Vincent Laborde, and Jihwan Kim

POSTER 129

ANALYSIS OF REGIONAL OCEAN COLOR CHARACTERISTICS AND QUALITY ASSESSMENT OF GOCI-II PRODUCTS USING IN-SITU OBSERVATIONS AROUND THE KOREAN PENINSULA

HanBit Lee, Na-Hyun Kim, Sang Heon Lee, Huiwon Lee, Mun-Ki Choi, Hee Yoon Park, Jeong-ik Lee, and Tae-Ho Kim

POSTER 133

RECONSTRUCTING OCI-CONSISTENT HYPERSPECTRAL RRS FROM AQUA MODIS USING A UNIFIED SPECTRAL-ATTENTION DEEP LEARNING

Xiaolong Li, Yaopu Zhu, and Xiaofeng Li

POSTER 137

A NEAR-180° BACKWARD SMALL-ANGLE MUELLER MATRIX POLARIMETER FOR THE MEASUREMENT OF AQUATIC PARTICULATES

Bingyi Liu, Peizhi Zhu, Hongwei Zhang, Yan He, and Songhua Wu

POSTER 141

OCEAN COLOR SUPER-RESOLUTION IMAGES USING BLIND FUSION OF SENTINEL-2 AND SENTINEL-3 DATA

Fatima Zahrae M'Rani*, Matthieu Puigt, Cédric Jamet, Claire Guilloteau, Gilles Delmaire, Gilles Roussel, and Vincent Vantrepotte

POSTER 145

NASA'S GLIMR MISSION CAPTURING OCEAN COLOUR DYNAMICS AT DIURNAL TIMESCALES: PRE-LAUNCH RADIOMETRIC CALIBRATION AND PERFORMANCE

Antonio Mannino, Joseph Salisbury, Dirk Aurin, Benjamin Lewis, Marcus Mascarenas, Steven Persh, and Mark Schless

POSTER 149

MODIS-AQUA NEAR-SURFACE OBSERVATIONS OF GYRE-INDUCED UPWELLING AND THE 2020 PELAGIC FISHERY TRANSITION IN GUINEA-BISSAU

Diones Nonque*, Tiago Serpa, Ana Martins, and Régis Santos

POSTER 153

MARINE LITTER DETECTION: CHALLENGES AND OPPORTUNITIES FOR THE MARINE OPTICS COMMUNITY

Victor Martinez Vicente, James Clark, Matt Cole, Paolo Corradi, Penelope Lindeque, and Stefan Simis

POSTER 157

REMOTE SENSING OF ASTAXANTHIN-RICH ZOOPLANKTON: CURRENT STATUS AND FUTURE DIRECTIONS

Catherine Mitchell, Rebekah Shunmugapandi, Farley Miller, Karen Stamieszkin, David McKee, and Cait McCarry

POSTER 161

PHYTOPLANKTON OPTICAL TYPES FROM HYPERSPECTRAL IMAGING SPECTROSCOPY

Dagmar Müller, Marcel König, Martin Hieronymi, Rüdiger Röttgers, Shun Bi, Kerstin Stelzer, and Carsten Brockmann

POSTER 165

PLANETARY DIAGNOSIS OF PHYTOPLANKTON IRON STRESS

Amy Nuno*, Toby K. Westberry, Jun Yu, Keith Moore, Michael J. Behrenfeld, and Adam Martiny

POSTER 169

ROUTINE RADIOMETRIC MEASUREMENTS ABOARD GERMAN RESEARCH VESSELS

Julia Oelker, Daniela Voß, and Jochen Wollschläger

POSTER 173

THE APPLICATION OF SINGLE-TURNOVER ACTIVE FLUOROMETRY (STAF) TO AUTONOMOUS ASSESSMENT OF PHYTOPLANKTON PRIMARY PRODUCTIVITY AT HIGH SPATIAL AND TEMPORAL RESOLUTION

Kevin Oxborough, Nina Schuback, Mark Moore, Alison Chase, Patrick Gray, Ben Fisher, Tom Jordan, Gavin Tilstone, Raul Costa, and Carlos Mendes

POSTER 177

UNLOCKING AQUATIC SPECTRAL FEATURES WITH ORTHOGONAL COMPONENTS OF WATER AND PLANKTON, AEROSOL, CLOUD, OCEAN ECOSYSTEM (PACE)

Rejane Paulino*, Sasha Kramer, and Vitor Martins

POSTER 181

COMPARISON OF HYPERSPECTRAL, CHEMOTAXONOMIC AND CYTOMETRIC METHODS TO CHARACTERIZE PHYTOPLANKTON COMMUNITY COMPOSITION IN DYNAMIC COASTAL WATERS

Sacchidanandan Pillai*, Paul Covert, Cameron Kraft, Lori-Jon Waugh, Jason Graff, and Philippe Tortell

POSTER 185

ENHANCED CHARACTERIZATION OF SUSPENDED PARTICLES IN THE NORTH SEA USING PLANKTON IMAGING TOOLS

Nore Praet, Rune Lagaisse, Jonas Mortelmans, Peter Urban, Benjamin Van Roozendaal, Maarten De Rijcke, Samira Lashkari, and Thomas Vandorpe

POSTER 189

INFLUENCE OF DOMINANT GENERA ON THE REMOTE-SENSING REFLECTANCE OF CYANOBACTERIA-DOMINATED FRESHWATER ENVIRONMENTS

Bruno Rech*, Áurea Ciotti, Daniel Maciel, Júlio Santos, and Cláudio Barbosa

POSTER 193

PRIMARY PRODUCTION AROUND OFFSHORE WIND FARMS IN THE SOUTHERN NORTH SEA

Cleo van Rijs*, Dick van Oevelen, and Daphne van der Wal

POSTER 197

MULTIDIMENSIONAL DATA CUBES AND MACHINE LEARNING FOR MONITORING OF AQUACULTURE SITES IN THE SPANISH MEDITERRANEAN

Ana Belen Ruescas, Arena Martin Olivo, and Elena Martínez-Mateo

POSTER 201

SOUTHERN OCEAN PHYTOPLANKTON PIGMENT ESTIMATION ALGORITHM: A REMOTE SENSING - MACHINE LEARNING APPROACH

Ziad Sari El Dine*

POSTER 205

ISOLATING THE IN-SITU CONTRIBUTION TO OCEAN COLOUR VICARIOUS CALIBRATION

Joshua Schofield*, David Antoine, and Agnieszka Bialek

POSTER 209

SATELLITE-DERIVED IDENTIFICATION OF CONTRASTING BIO-OPTICAL REGIMES IN THE GUINEA-BISSAU EXCLUSIVE ECONOMIC ZONE (2018-2023)

Tiago Serpa*, Diosnes Nonque, Régis Santos, and Ana Martins

POSTER 213

MULTISPECTRAL AND HYPERSPECTRAL REMOTE SENSING OF PHYTOPLANKTON FUNCTIONAL TYPES

Fang Shen, Yuan Zhang, Han Wang, and Sunzhe Li

POSTER 217

ANALYSIS OF PHENOLOGICAL VARIATION IN SARGASSUM HORNERI INFLUX IN THE YELLOW SEA AND EAST CHINA SEA USING GOCI-II

Young Baek Son, Sun Kyeong Choi, Seonggil Go, and Jong-Kuk Choi

POSTER 221

EVALUATION OF WATER MASSES CHARACTERIZATION WITH THE INCLUSION OF OPTICAL DATA

Haley Synan*, Kimberly Hyde, Colleen Mouw, Rowan Cirivello, and Audrey Ciochetto

POSTER 225

DOM TRANSFORMATION IN THE BALTIC SEA'S SEA-SURFACE MICROLAYER DURING A CYANOBACTERIAL BLOOM: WHAT ARE THE DOMINATING PROCESSES?

Claudia Thölen*, Michael G. Novak, Rüdiger Röttgers, Jochen Wollschläger, and Oliver Zielinski

POSTER 229

BIO-OPTICAL CHARACTERIZATION OF AN EXTENSIVE AND HISTORIC CYANOBACTERIA BLOOM IN THE HUDSON RIVER ESTUARY, NEW YORK, USA

Kyle Turner, Maria Tzortziou, Tong Lin, Joaquim Goes, Shannon Roback, and Christ Solomon

POSTER 233

MULTI-SENSOR OCEAN COLOUR PRODUCTS TO SUPPORT THE COPERNICUS MARINE HIGH-RESOLUTION COASTAL SERVICE

Dimitry Van der Zande, Kerstin Stelzer, Carole Lebreton, Martin Böttcher, and Aida Alvera-Azcarate

POSTER 237

CONTRASTED TRAJECTORIES OF BRAZILIAN COASTAL ECOSYSTEMS REVEALED BY 20 YEARS OF MODIS OCEAN COLOUR OBSERVATIONS

Vincent Vantrepotte, Manh Tran Duy, Daniel Jorge, Joao Felipe Cardoso dos Santos, Ikram Salah Salah, Hubert Loisel, Gwenael Abril, and Milton Kampel

POSTER 241

UPSCALING BENTHIC HABITAT CLASSIFICATION FROM DRONE TO SATELLITE IMAGERY USING MULTI-TEMPORAL MACHINE LEARNING

Gladys Villegas, Dimitry Van der Zande, Mihailo Azhar, Hege Gundersen, Ari-Pekka Jokinen, Kasper Hancke, Peter Anton Staehr, Valentina Todorova, Louise Forsblom, Dimitar Berov, Todor Lambev, and Nuria Marbà

POSTER 245

IMPROVING CROSS-PLATFORM COMPARABILITY OF SEAL-BORNE FLUORESCENCE MEASUREMENTS WITHIN THE GLOBAL OCEAN OBSERVING SYSTEM

Jakob Weis, Christina Schallenberg, Esmee van Wijk, Christophe Guinet, Laura Harraiz-Borreguero, Fabien Roquet, Clive R. McMahon, Ian Jonsen, David Green, Mark Hindell, and Sophie Bestley

POSTER 249

WATER QUALITY CHANGES IN CHINA'S COASTAL WATERS OVER THE PAST TWO DECADES

Youlv Wu*, Lian Feng, and Chunmiao Zheng

POSTER 253

EXTENDING OCEAN COLOR INTO POLAR NIGHT: YEAR-ROUND RETRIEVAL OF PHYTOPLANKTON OPTICAL SIGNALS USING SPACEBORNE LIDAR AND DEEP LEARNING

Zhenhua Zhang, Peng Chen, and Siqi Zhang

POSTER SESSION 2

10:30-12:30, TUESDAY, SEPTEMBER 15

POSTER 2

CONSISTENCY OF ABOVE AND IN-WATER RADIOMETRIC MEASUREMENTS IN EUTROPHIC AND ABSORBING WATERS

Krista Alikas, Peter Gege, Stefan Plattner, Ian Somlai, Kersti Kangro, Ave Ansper-Toomsalu, Nicole Pinnel, Viktor Vabson, Ilmar Ansko, and Riho Vendt

POSTER 6

SEASONAL, TREND, AND IRREGULAR VARIABILITY OF SOUTHERN OCEAN SURFACE PCO₂: A SCALE-DEPENDENT VIEW FROM CIRCUMPOLAR TO FRONTAL ENVIRONMENTS

Maximiliano Arena, Hubert Loisel, and Roy El Hourany

POSTER 10

CORAL BLEACHING DETECTION FROM PLANETSCOPE IMAGERY USING A CONVOLUTIONAL NEURAL NETWORK CLASSIFIER

Mariam Ayad*, Kevin Valencia, Christine Lee, Hannah Druckenmiller, and Raphael Kudela

POSTER 14

BASIN-WIDE MONITORING OF SARGASSUM RAFTS USING THE GEOSTATIONARY SATELLITE METEOSAT-THIRD GENERATION

Lucas Barbedo, Thibault Guinaldo, Marianne Debue, and François Steinmetz

POSTER 18

PANTHYR IN HYPERNETS - AN ANALYSIS OF RADIOMETER SENSOR CALIBRATION AND CHARACTERISATION

Matthew Beck, Kevin Ruddick, Riho Vendt, Dieter Vansteenwegen, Francesca Ortenzio, and Quinten Vanhellemont

POSTER 22

DIURNAL PHYTOPLANKTON FLUORESCENCE DYNAMICS REVEALED BY FINE SPECTRAL FEATURES IN ATMOSPHERIC ABSORPTION BANDS USING HYPERNETS DATA

Zoé Besnard*, Tristan Harmel, David Doxaran, Soham Mukherjee, and Pierre Gernez

POSTER 26

IMPROVED ESTIMATES OF PARTICULATE ABSORPTION AND ATTENUATION WITH THE SEABIRD'S AC-S IN FLOW-THROUGH MODE USING A CDOM FLUOROMETER AND A NOVEL SCATTERING CORRECTION

Emmanuel Boss, Guillaume Bourdin, Patrick Gray, David Doxaran, Chiara Sentinelli, and Collin Roesler

POSTER 30

SENSITIVITY OF VARIOUS HYPERSPECTRAL SATELLITE SENSOR CONFIGURATIONS FOR THE QUANTIFICATION OF PHYTOPLANKTON GROUPS AND BULK PARAMETERS ACROSS THE GLOBAL OPTICAL WATER TYPES

Astrid Bracher, Vladimir Rozanov, and Alexey Rozanov

POSTER 34

FROM DATA ACCESS TO APPLICATIONS: EUMETSAT TRAINING RESOURCES FOR SENTINEL-3 OLCI

Joana Brito, Benjamin Loveday, Hayley Evers-King, Ana Ruescas, Vittorio Brando, and Aida Alvera-Azcarate

POSTER 38

HOW GREEN IS YOUR CHLOROPHYLL-A? BENCHMARKING THE GREENNESS OF LC METHODS FOR PHYTOPLANKTON PIGMENT ANALYSIS IN OCEAN COLOR APPLICATIONS

Elisabetta Canuti

POSTER 42

RETRIEVAL OF PARTICULATE INORGANIC CARBON IN THE NORTH SEA WITH THE MTG/FCI GEOSTATIONARY SENSOR

Alexandre Castagna, Clémence Goyens, Qiming Sun, Quinten Vanhellemont, and Griet Neukermans

POSTER 46

SATELLITE RETRIEVAL OF CDOM IN GDAŃSK BAY AND ITS POTENTIAL CONNECTION TO ORGANIC ALKALINITY

Aleksandra Cherkasheva, Alexandra N. Loginova, Piotr Kowalczyk, Monika Zabłocka, Dominik Lis, and Loïc Macé

POSTER 50

A SACW FULL OF COLORS: EXPLORING THE BIO-OPTICAL VARIABILITY OF THE SUB SUPERFICIAL SOUTH ATLANTIC CENTRAL WATER IN THE ALCATRAZES ARCHIPELAGO

Aurea Ciotti, Ana Paula Piazza Forgiarini, and Ana Laura Tribst-Corrêa

POSTER 54

AQUASCOPE: AN AQUATIC EARTH OBSERVATION (EO) DATA SERVICE FOR BELGIAN NORTH SEA USERS

Arthur Coqué, Dimitry Van der Zande, Simon Van Baelen, and Jurgen Everaerts

POSTER 58

TOWARDS COMMUNITY-AGREED UAV PROTOCOLS FOR AQUATIC REFLECTANCE

Liesbeth De Keukelaere, Sindy Sterckx, Ils Reusen, Gert Strackx, Agnieszka Bialek, and Morven Sinclair

POSTER 62

DETECTING ANOMALOUS BLOOM DYNAMICS FROM SENTINEL-3 CHLOROPHYLL-A TIME SERIES: THE 2021 EMERGENCE OF LINGULAUAX POLYEDRA RED TIDES IN SOUTHERN BRITTANY (FRANCE)

Amalia Maria Detoni, Maria Laura Zoffoli, Victor Pochic, and Pierre Gernez

POSTER 66

USING THE SIMILARITY SPECTRUM EXTENDED TO THE SWIR FOR QUALITY CONTROL OF ABOVE WATER REFLECTANCE MEASUREMENTS

Ana Dogliotti and Kevin Ruddick

POSTER 70

THE IMPRINT OF PHYTOPLANKTON COMMUNITY STRUCTURE ON HYPERSPECTRAL RRS SIGNALS: COMPARATIVE DIAGNOSTICS FROM IN SITU OBSERVATIONS

Roy El Hourany and Sasha Kramer

POSTER 74

EVALUATION OF SATELLITE-DERIVED CHLOROPHYLL-A ALONG THE CALIFORNIAN COAST

Yanna Alexia Fidai, Shubha Sathyendranath, Bror Jonsson, Gemma Kulk, Salem Salem, and Andrei Chuprin

POSTER 78

TEMPORAL VARIATION OF WATER REFLECTANCE AND WATER QUALITY IN THE BLANKAART WATER RESERVOIR USING IN SITU AND SATELLITE REMOTE SENSING

Anabel Gammaru, Kevin Ruddick, Quinten Vanhellemont, Pieter Jan Haest, Ingrid Keupers, Hans Van Cauwenbergh, and Jelmer Nijp

POSTER 82

THOMAS: OPTIMISED DATA ACCESS AND MATCHUP WORKFLOWS FOR MULTI-SENSOR VALIDATION OF SATELLITE OCEAN COLOUR PRODUCTS

Juan Ignacio Gossn, David Dessailly, Francesco D'Amico, Ewa Kwiatkowska, Benjamin Loveday, Hayley Evers-King, Estelle Obligis, and Bojan Bojkov

POSTER 86

A HYBRID FRAMEWORK FOR ROBUST RETRIEVAL OF THE DIFFUSE UPWELLING RADIANCE ATTENUATION COEFFICIENT FROM HYPERNAV PROFILES

Nils Haëntjens, Robert Frouin, Emmanuel Boss, Jing Tan, and Andrew Barnard

POSTER 90

COASTAL DARKENING - IMPACT ON PHOTOSYNTHESIS AND REACTIVE OXYGEN SPECIES IN IRISH COASTAL WATERS

Maija Heller, Peter Croot, Hannah Doran, and Mark Johnson

POSTER 94

RECONCILING MODELED AND OBSERVED WATER-COLUMN PAR BEHAVIOR

Henry Houskeeper, Stanford Hooker, Raphael Kudela, Koji Suzuki, and Charlotte Begouen Demeaux

POSTER 98

EVALUATING TRISHNA VNIR SPECTRAL CONFIGURATION FOR SPM AND CHLOROPHYLL-A RETRIEVAL IN OPTICALLY COMPLEX WATERS

Dilipkumar Jayaraj, Cédric Jamet, and Charles Verpoorter

POSTER 102

RESOLVING THE RHYTHM OF ARCTIC RIVERS FROM SPACE THROUGH HIGH-FREQUENCY MONITORING OF TERRESTRIAL FLUXES WITH SENTINEL-3 OLCI

Bennet Juhls, Pier Paul Overduin, Jonas Küpper, Felica Gehde, Annabeth McCall, and Guido Grosse

POSTER 106

A DASHBOARD FOR THE AUTOMATED DETECTION AND MAPPING OF BLOOM FORMING REGIONS TO MONITOR WATER QUALITY USING PACE OCI

Matthew Kehrli, Graham Trolley, and Antonio Mannino

POSTER 110

OFFSHORE VALIDATION OF PHOTON COUNTING RAMAN LIDAR FOR DEPTH-RESOLVED OCEAN TEMPERATURE PROFILING

Ondrej Kitzler, Helen Pask, David Spence, James Downes, Zixuan Li, Carolyn Taylor, David Antoine, Ameera Jose, and David Coutts

POSTER 114

CHARACTERIZATION OF OPTICAL WATER TYPE FEATURES OF DIFFERENT PHYTOPLANKTON GROUPS IN THE NORTH SEA-BALTIC SEA REGION

Katharina Kordubel, Martin Hieronymi, Rüdiger Röttgers, and Shun Bi

POSTER 118

TURBIDITY IN FTU AS AN INDICATOR OF WATER QUALITY IN THE VISTULA RIVER MOUTH, BALTIC SEA: A PRELIMINARY ANALYSIS WITH SATELLITE DATA

Maria Kubacka, Adam Krężel, and Katarzyna Bradtke

POSTER 122

BATHYUNET++: A CENTER-FOCUSED RECEPTIVE-FIELD NETWORK FOR HIGH-RESOLUTION BATHYMETRY MAPPING FROM SUPERDOVE IMAGERY

Wendian Lai*, Xiaolong Yu, Anders Knudby, and Zhongping Lee

POSTER 126

SEASONAL DYNAMICS OF PHYTOPLANKTON IN THE SEINE ESTUARY AND BAY

Enora Lecordier, Pierre Gernez, Dominique Soudant, Pascal Claquin, and Tania Hernández-Fariñas

POSTER 130

EVALUATING ATTENUATION CORRECTION METHODS FOR HYPERSPECTRAL BACKSCATTERING WITH THE HYPER-BB SENSOR

Thomas Leeuw and Kirby Simon

POSTER 134

QUANTIFICATION OF PHYTOPLANKTON PRIMARY PRODUCTION FROM SPACE: A REVISIT WITH THE AID OF HIMAWARI-8/AHI

Zhaoxin Li, Wei Yang, Fang Shen, and Chong Shi

POSTER 138

A CLASSIFICATION-BASED ALGORITHM FOR GLOBAL RETRIEVAL AND VARIABILITY ANALYSIS OF PARTICULATE ORGANIC CARBON OVER OPEN AND COASTAL WATERS FOR THE LAST 28 YEARS

Hubert Loisel, Daniel S. F. Jorge, Marine Bretagnon, Lucile Duforêt-Gaurier, Aurélien Prat, Vincent Vantrepotte, Manh Tran Duy, and Antoine Mangin

POSTER 142

VALIDATION OF REMOTE-SENSING OCEAN COLOR DATA FOR THE ANALYSIS OF WATER TRANSPARENCY IN THE BALTIC SEA

Loïc Macé, Piotr Kowalczyk, Mirosław Darecki, Dominik Lis, Joanna Stoń-Egiert, Monika Zabłocka, Tim Smyth, and Benjamin O'Driscoll

POSTER 146

S2-LAG: A SENTINEL-2 PROCESSING CHAIN FOR OPERATIONAL MONITORING OF OPTICALLY COMPLEX COASTAL LAGOONS

Samuel Martin, David Doxaran, Philippe Bryère, Pierre Gernez, Antoine Mangin, and Marine Bretagnon

POSTER 150

BIOGEOCHEMICAL VARIABILITIES OF THE TONLE SAP LAKE: ASSESSING THE IMPACT OF NATURAL AND ANTHROPOGENIC FORCINGS ON THE MEKONG'S CENTRAL HYDROSYSTEM

Julien Masson*, Charles Verpoorter, and Cédric Jamet

POSTER 154

RESOLVING SMALL-SCALE DYNAMICS IN THE SOUTHERN OCEAN'S POLAR FRONT WITH BIOGEOCHEMICAL TRACERS

Chantal Mears*, Chantal Mears, Christina Schallenberg, Peter Strutton, Yann-Treden Tranchant, Helen Phillips, Benoit Legresy, Heather Jaques, and Tamara Schlosser

POSTER 158

EVALUATION OF A THREE-COMPONENT, SEMI-ANALYTIC IRRADIANCE MODEL FOR USE IN OCEAN ECOSYSTEM MODELS

Curtis Mobley* and Elena Terzic

POSTER 162

EVALUATING SATELLITE OCEAN-COLOUR ALGORITHMS ACROSS OPTICALLY DIVERSE GREENLANDIC WATERS

Karthick Murugan, Thomas Juul-Pedersen, Per Juel Hansen, and Rafael Gonçalves-Araujo

POSTER 166

REGIONAL VARIABILITY OF PHYTOPLANKTON SIZE CLASSES IN KOREAN WATERS FROM MULTI-YEAR SATELLITE AND IN SITU OBSERVATIONS

Doni Nurdiansah*, Myung Jin Hyun, Jae-Hoon Noh, Deuk Jae Hwang, and Jong-Kuk Choi

POSTER 170

HYPERSPECTRAL ARGO FLOATS IN THE MEDITERRANEAN SEA

Emanuele Organelli, Mengyu Li, Lou Andres, and Giovanni La Forgia

POSTER 174

TOWARD OPERATIONAL READINESS FOR A USGS LANDSAT LEVEL 2 AQUATIC REFLECTANCE PRODUCT

Benjamin Page, Christopher Crawford, Saeed Arab, Danika Wellington, Christopher Barnes, and Gail Schmidt

POSTER 178

INTEGRATED MICRO-SENSOR OBSERVATORIES FOR HIGH-FREQUENCY MONITORING OF WATER QUALITY: COMBINED PASSIVE RADIOMETRY AND FLUORESCENCE LIDAR APPROACH

Vadim Pelevin, Vladislav Moshkov, Pavel Skripka, Ekaterina Koltsova, Aleksandr Molkov, Sergei Demchuk, and Tristan Harmel

POSTER 182

THE AUTOMATED UNMANNED SURFACE VEHICLE LIMNOVIS AS A TOOL FOR MEASURING BRDF IN INLAND WATERS

Stefan Plattner, Peter Gege, and Thomas Schwarzmaier

POSTER 186

A SEMI-AUTOMATED WORKFLOW FOR NEAR-REAL-TIME BENTHIC CANOPY MAPPING IN THE ORBETELLO LAGOON (ITALY) FROM SENTINEL-2 DATA

Giuliana Profeti, Federica Braga, Maria Laura Zoffoli, and Vittorio Ernesto Brando

POSTER 190

A LIDAR-BASED VARIABLE PATHLENGTH BACKSCATTERING TRANSMISSOMETER

Eric Rehm, Fraser Dalglish, and Walter Britton

POSTER 194

COASTAL FRONTAL ZONE SATELLITE DETECTION AND VARIABILITY OVER GRAY'S REEF NATIONAL MARINE SANCTUARY

Sara Rivero-Calle

POSTER 198

RETRIEVAL OF PARTICULATE ORGANIC CARBON IN THE ARABIAN SEA USING OCEAN COLOR OBSERVATIONS

Shahimol SR*, Rupam Kalita, and Aneesh A. Lotliker

POSTER 202

UNLOCKING BIO-OPTICAL RELATIONSHIPS USING ONEARGO: A MACHINE LEARNING FRAMEWORK

Raphaëlle Sauzede, Julia Uitz, Catherine Schmechtig, and Hervé Claustre

POSTER 206

MODELING LASER LIGHT REFLECTION AT DYNAMIC SEA SURFACES

Frederic Schwenger and Stefan Kessler

POSTER 210

HIGH-RESOLUTION SWOT ALTIMETRY AND OCEAN COLOUR OBSERVATIONS OF THE ISLAND MASS EFFECT IN THE KUROSHIO CURRENT

Shiliang Shan and Daisuke Hasegawa

POSTER 214

DEVELOPMENT OF A NEW HYPERSPECTRAL TRANSMISSOMETER

Kirby Simon, Thomas Leeuw, Ravi Chandrasiri, and Chuck Pottsmith

POSTER 218

DUNALIELLA SP.: NATURE'S REMARKABLE SOLAR COLLECTOR FROM EXTREME HYPERSALINE ENVIRONMENTS

Manuela Spevec*, Lina Kovačević, Antonija Matek, Zrinka Ljubešić, Nadica Ivošević DeNardis, Nives Novosel Vlašić, Romina Kraus, Petar Žutinić, and Marija Gligora Udovič

POSTER 222

IMPACTS OF MARINE HEATWAVES ON PHYTOPLANKTON COMMUNITY DYNAMICS AND SURFACE CO₂ EXCHANGE IN THE NORTH PACIFIC

Shintaro Takao, Koji Suzuki, Toru Hirawake, and Shin-Ichiro Nakaoka

POSTER 226

INTEGRATION OF ASSOCIATION RULE MINING FOR SEMI-ANALYTICAL MODELING OF REMOTE SENSING REFLECTANCE IN BALTIC COASTAL WATERS

Henryk Toczek*, Włodzimierz Freda, Barbara Lednicka, and Kamila Haule

POSTER 230

TAQUITO: A NEW AUTONOMOUS SENSOR FOR FIRST FLASH MECHANICALLY STIMULATED BIOLUMINESCENCE

Michael Twardowski, Wayne Slade, Ed Malkiel, Csaba Vasco, Francis Letendre, Alberto Tonizzo, Chris Strait, Will Fuhrman, and Ben Metzger

POSTER 234

ESTIMATING TOTAL IRON IN DUTCH INLAND WATERS FROM SENTINEL-2

Marit van Oostende and Ype van der Velde

POSTER 238

FIELD INTERCOMPARISON OF AUTONOMOUS BGC-ARGO FLOAT AND SHIPBORNE FREE-FALL RADIOMETRIC MEASUREMENTS

Vincenzo Vellucci, Lou Andrés, Edouard Leymarie, Antoine Poteau, Wilhem Riom, Céline Dimier, Léo Lacour, Agnieszka Bialek, Julia Uitz, and Hervé Claustre

POSTER 242

THE EFFECT OF NOISE IN SEA SURFACE TEMPERATURE ON MARINE PRIMARY PRODUCTION

Marin Vojkovic, Leon Catipovic, Zarko Kovac, Zheng Qi, Robert Brewin, and Shubha Sathyendranath

POSTER 246

EVALUATING THE POTENTIAL FOR REMOTE SENSING OF FLOATING MARINE MICROPLASTICS AND DEBRIS IN THE CONTEXT OF DIVERSE ATMOSPHERIC GASES USING EMIT IMAGERY

Jakob Werdell*, Heidi Dierssen, Kirk Knobelspiesse, Amir Ibrahim, Pengwang Zhai, Oskar Landi, and David Thomson

POSTER 250

A HYBRID PROCESSING CHAIN FOR SUSPENDED PARTICULATE MATTER ESTIMATION ACROSS EXTREME TURBIDITY GRADIENTS IN THE SEINE ESTUARY

Loïc Cabrel Youmbi Tchaewo*, Charles Verpoorter, and Romaric Verney

POSTER 254

FROM EMPIRICAL TO INTELLIGENT: A CROSS-DATASET MATCHUP ANALYSIS OF EMPIRICAL, SEMI-ANALYTICAL AND MACHINE LEARNING ALGORITHMS FOR SATELLITE CDOM ESTIMATION IN EUROPEAN WATERS

Mengjie Zhao*, Vittorio Brando, Carolina Cantoni, Simone Colella, Chenqian Tang, Emmanuel Boss, and Chiara Santinelli

POSTER SESSION 3

15:30–17:30, WEDNESDAY, SEPTEMBER 16

POSTER 3

USING HYPERSPECTRAL UNMIXING TO DERIVE OPTICAL WATER TYPES FROM SATELLITE DATA

Aria Alinejad* and Vishnu Perumthuruthil Suseelan

POSTER 7

OCEAN COLOR RETRIEVALS FROM SPEXONE MEASUREMENTS USING FASTMAPOL/COMPONENT JOINT RETRIEVAL ALGORITHM

Kamal Aryal, Meng Gao, Pengwang Zhai, Bryan Franz, Kirk Knobelspiesse, Amir Ibrahim, and Jeremy Werdell

POSTER 11

BAYESIAN ESTIMATION OF PHOTOSYNTHESIS-IRRADIANCE PARAMETERS WITH UNCERTAINTY PROPAGATION INTO WATER COLUMN PRIMARY PRODUCTION

Marija Bacekovic Koloper*, Jann Paul Mattern, and Žarko Kovač

POSTER 15

DERIVING WATER QUALITY IN COASTAL AND INLAND WATERS: BEST PRACTICES FOR ALGORITHM DEVELOPMENT AND VALIDATION

Brian Barnes, Cheng Xue, Madjid Hadjal, and Chuanmin Hu

POSTER 19

REVISITING HOW THE EUPHOTIC DEPTH IS COMPUTED

Charlotte Begouen Demeaux*, Emmanuel Boss, and Michael Behrenfeld

POSTER 23

OBSERVATION OF PHYTOPLANKTON COMMUNITIES IN THE SENEGALESE UPWELLING SYSTEM: IN VIVO/IN SITU MULTI-SPECTRAL FLUOROMETRY APPROACH

Aida Beye, Eric Machu, Xavier Capet, Marc Sourisseau, Louis Marié, and Luis Felipe Artigas

POSTER 27

ASSESSING THE ABILITY TO ACHIEVE OPTICAL CLOSURE ACROSS THE LAURENTIAN GREAT LAKES

Karl Bosse* and Michael Sayers

POSTER 31

CAPTURING SPATIAL AND TEMPORAL GRADIENTS OF OPTICAL WATER TYPES IN A RIVER SYSTEM

Gian Marco Scarpa, Federica Braga, Debora Bellafiore, Vittorio Brando, and Francesca De Pascalis

POSTER 35

INSTRUMENT SELF-SHADING EFFECTS IN POLARISED IN-WATER LIGHT FIELDS

Olivier Burggraaff, John D. Hedley, Michael Twardowski, and Agnieszka Białek

POSTER 39

PROCESS HYPERSPECTRAL PACE OCI SPECTRA OF OPTICALLY DEEP AND SHALLOW WATERS WITH ONE ALGORITHM

Tiantian Cao* and Zhongping Lee

POSTER 43

VERTICAL STRUCTURE OF PHYTOPLANKTON BIOMASS AND BIO-OPTICAL PROPERTIES DURING BLOOM PERIODS IN SAGAMI BAY, JAPAN (2016-2026)

Mia Castillo*, Koichi Yano, Robel Ashenafi, Shinji Shimode, and Victor Kuwahara

POSTER 47

UNTANGLING DRIVERS OF SUSPENDED PARTICULATE MATTER ON THE BLACK SEA NORTH WESTERN SHELF

Mathurin Choblet*

POSTER 51

HYPERSPECTRAL OPTICAL WATER TYPES OF THE U.S. NORTHEAST SHELF AND ADJACENT WATERS

Rowan Cirivello*, Colleen Mouw, Kimberly Hyde, Haley Synan, and Audrey Ciochetto

POSTER 55

ASSESSING PHYTOPLANKTON COMMUNITY COMPOSITION FROM PACE: FROM REFLECTANCE TO ABSORPTION AND PIGMENTS IN EUROPEAN WATERS

Margherita Costanzo*, Vittorio E. Brando, Emmanuel Boss, Alison P. Chase, David Doxaran, Thomas M. Jordan, and Stefan G.H. Simis

POSTER 59

CLIMATE CHANGE IN THE PATAGONIAN SHELF FAVORS DIATOM DOMINANCE

Ana Delgado, Roy El-Hourany, Maximiliano Arena, Paula Pratolongo, Guillermina Ruiz, and Gotzon Basterretxea

POSTER 63

RBRQUADRANTE PERFORMANCE IMPROVEMENTS FOR ARGO-CLASS PROFILING RADIOMETRY

Mathieu Dever and Jon Taylor

POSTER 67

SPECTRAL DISCRIMINATION OF VOLCANIC AND NON-VOLCANIC OCEAN-COLOUR ANOMALIES: THE 2026 TITAN RIDGE ERUPTION

Joana Domingues*, Susanna Ebmeier, Issah Suleiman, and Ana M. Martins

POSTER 71

SUNLIGHT GIVING A VOICE TO NATURE: OPTICAL REMOTE SENSING OF WATER QUALITY TO SUPPORT EU DIRECTIVES

Marieke Eleveld, Miguel Dionisio Pires, Martha Dellar, Sam Boerlijst, Niels Barts, Marcel van den Berg, Marieke de Lange, Mario Fuentes Monjaraz, Willem Stolte, Anna Spinosa, and Vedran Petrov

POSTER 75

ACTIVE FLUORESCENCE IMAGING AND FLUOROMETRIC BATHYMETRIC LIDAR: ADVANCING COASTAL MAPPING TECHNOLOGIES

Robert Foster, Ahmed El-Habashi, Erica Venkatesulu, and Fraser Dalgleish

POSTER 79

MAPPING PHYTOPLANKTON FLUORESCENCE PROPERTIES WITH HYPERSPECTRAL ENMAP DATA

Peter Gege, Krista Alikas, Kersti Kangro, Nicole Pinnel, Stefan Plattner, Ian Somlai-Schweiger, and Mirjam Uusõue

POSTER 83

MODEL DOMAIN GAPS IN OCEAN COLOR ALGORITHMS

Patrick Gray, Charlotte Begouen-Demeaux, Alison Chase, Robert Frouin, and Emmanuel Boss

POSTER 87

CONSIDERATION OF CORRELATIONS IN RADIOMETRIC MEASUREMENTS OF THE ENVIRONMENT

Natalie Hall, Steven Brown, David Allen, Julia Marrs, and Christopher Crawford

POSTER 91

MAPPING PHYTOPLANKTON AND CARBON PATHWAYS FROM SPACE THROUGH OPTICAL WATER TYPE CLASSIFICATION

Martin Hieronymi, Katharina Kordubel, Daniel Behr, Rüdiger Röttgers, Shun Bi, Annabeth McCall, and Bennet Juhls

POSTER 95

VERTICAL REDISTRIBUTION OF CHLOROPHYLL AND UNCERTAINTY IN PRIMARY PRODUCTIVITY ESTIMATES IN THE FRAM STRAIT UNDER CHANGING LIGHT REGIMES

Midhun shah Hussain and Piotr Kowalczyk

POSTER 99

MONITORING SUSPENDED SEDIMENT IN THE DANUBE RIVER USING HIGH SPATIAL RESOLUTION SATELLITE IMAGERY

Dalin Jiang, Albert Scricciu, Adriana Constantinescu, Daniela Florea, Andrew Tyler, and Evangelos Spyarakos

POSTER 103

DEVELOPMENT OF A REGIONAL EMPIRICAL ALGORITHM FOR ESTIMATING BIOPOLYMERIC CARBON FROM SATELLITE OCEAN COLOR IN THE EASTERN YELLOW SEA

Hyeon-Myeong Jung*, Huitae Joo, Dabin Lee, Sanghoon Park, Jaesoon Kim, Myeongseop Kim, Sungjun Kim, Ji-Seong Kim, Ha-Young Choi, and Sang-Heon Lee

POSTER 107

CLIMATE-DRIVEN VARIABILITY OF CHLOROPHYLL-A AND PHYTOPLANKTON STRUCTURE ALONG THE MOROCCAN COAST (1998-2024): IMPLICATIONS FOR MARINE ECOSYSTEMS AND FISHERIES

Malika Kheireddine and Mustapha Ouhssain

POSTER 111

UNVEILING THE RELATIONSHIP BETWEEN PHYTOPLANKTON AND PARTICULATE ORGANIC CARBON IN THE GLOBAL OCEAN VIA SATELLITE DATA

Rimi Kobeyasi*, Lucile Dufforet-Guarier, Roy El Hourany, and Hubert Loisel

POSTER 115

ANALYSIS READY PHOTOSYNTHESIS PARAMETERS DATA

Žarko Kovač, Marija Bačeković Koloper, Shubha Sathyendranath, Gemma Kulk, Heather Bouman, and Leon Čatipović

POSTER 119

PHYTOPLANKTON BIOMASS AND BIODIVERSITY CLIMATE CHANGE INITIATIVE (PHYTO-CCI)

Gemma Kulk, Victor Martinez-Vicente, Marco Bellacicco, Astrid Bracher, Robert Brewin, Ana Brito, Vanda Brotas, Andrei Chuprin, Sarah Connors, Alexander Hayward, Lianne Jackson, Lekshmi Krishnakumary, Peter Miller, Emanuele Organelli, Graham Quartly, Ralf Quast, Salem I. Salem, Shubha Sathyendranath, Xuerong Sun, and Hongyan Xi

POSTER 123

LIGHT AVAILABILITY DURING POLAR NIGHT

Julien Laliberté and Marcel Babin

POSTER 127

SPECTRAL PROXY PARAMETER LINKING INHERENT OPTICAL PROPERTIES AND REMOTE SENSING REFLECTANCE IN DIFFERENT TYPES OF NATURAL WATERS

Barbara Lednicka, Zbigniew Otremba, and Tomasz Zapadka

POSTER 131

BIOMASS MAPPING OF AN INTERTIDAL EELGRASS BED IN THE ESTUARY AND GULF OF ST. LAWRENCE USING MULTISPECTRAL IMAGERY

Brigitte Légaré*, Simon Bélanger, and Christian Nozais

POSTER 135

KLIDAR VERSUS KD: A REVISIT OF GORDON'S CONCLUSIONS

Yupeng Liao* and Zhongping Lee

POSTER 139

SIMULTANEOUS RETRIEVAL OF DIAGNOSTIC PHYTOPLANKTON PIGMENTS FROM SENTINEL-3 OLCI USING CONVOLUTIONAL NEURAL NETWORKS

Borja Sánchez-López, Marco Talone, Jesus Cerquides, Annalisa Di Cicco, Gonzalo Martínez-Fornos, and Petra Slavinec

POSTER 143

BRAZA: A BIO-OPTICAL DATASET FOR LARGE-SCALE MONITORING OF BRAZILIAN INLAND AND COASTAL WATERS USING SATELLITE REMOTE SENSING

Daniel Maciel, Claudio Barbosa, Evlyn Novo, Aurea Ciotti, and Vitor Martins

POSTER 147

PHYTOPLANKTON FUNCTIONAL DIVERSITY TRENDS IN THE MEDITERRANEAN SEA IN THE LAST 25 YEARS

Gonzalo Martinez-Fornos*, Annalisa Di Cicco, Marco Talone, and Elisa Berdalet

POSTER 151

INTERNAL ISLAND-TRAPPED WAVES IN THE COASTAL ADRIATIC SEA REVEALED FROM SPACE: RESOLVING THE BIOPHYSICAL COUPLING

Antonija Matek*, Antonija Matek, Mirko Orlić, Hrvoje Mihanović, Simone Colella, Vittorio E. Brando, Maja Mucko, Branka Pestorić, and Zrinka Ljubešić

POSTER 155

RECENT IMPROVEMENTS TO HYPERSPECTRAL ABSORPTION (HYPER-A) AND BACKSCATTERING (HYPER-BB) SENSORS

Ole Mikkelsen, Thomas Leeuw, Kirby Simon, Ravi Chandrasiri, and Chuck Pottsmith

POSTER 159

VALIDATION OF GOCI-II OCEAN COLOR PRODUCTS USING AN INTEGRATED BIO-OPTICAL PROTOCOL AND THEIR APPLICABILITY TO DIURNAL VARIABILITY: CASE STUDIES OF CHL IN THE EAST SEA AND TSM IN THE YELLOW SEA

Jeong-Eon Moon, Jong-Kuk Choi, and Jae-Hyun Ahn

POSTER 167

AQUAVERSE: ADVANCES AND VALIDATION OF AN END-TO-END PIPELINE FOR WATER QUALITY PARAMETER MAPPING IN OPTICALLY COMPLEX INLAND AND COASTAL WATERS FROM HYPER- AND MULTISPECTRAL IMAGERS

Ryan O'Shea, Arun Saranathan, Akash Ashapure, William Wainwright, Brandon Smith, and Nima Pahlevan

POSTER 171

SENTINEL-2 BASED OPTICAL WATER TYPE CLASSIFICATION ACROSS DIVERSE MEDITERRANEAN LAGOONS

Diana Orlandi and Eduard Angelats

POSTER 175

PHYSICAL CONTROLS ON OCEAN COLOR BIOGEOCHEMISTRY: A 27-YEAR SATELLITE STUDY OF CHLOROPHYLL, PARTICULATE ORGANIC CARBON DYNAMICS

Chandanlal Parida, Madhusmita Dash, and Bronwyn Cahill

POSTER 179

TOWARD CROSS-SENSOR VALIDATION OF HYPSON OCEAN COLOR PRODUCTS USING SENTINEL-3 OLCI MATCHUPS

Cameron Penne*

POSTER 183

POLARIZED MULTI-DIRECTIONAL SIMULATIONS FOR ATMOSPHERIC AND ADJACENCY CORRECTION OF COASTAL OBSERVATIONS WITH 3MI AND METIMAGE (EPS-SG)

Pierre Posson*, François Steinmetz, Didier Ramon, and Jérôme Riedi

POSTER 187

CURVATURE-RED NORMALIZED DIFFERENCE INDEX FOR PARTICULATE ORGANIC CARBON RETRIEVAL FROM GOCI-I AND GOCI-II IN KOREAN COASTAL WATERS

Md Rakesur Rahman*, Deuk-Jae Hwang, Eunna Jang, Young Baek Son, Taehee Lee, and Jong-Kuk Choi

POSTER 191

A GLOBAL 3D DATA PRODUCT OF PHYTOPLANKTON FUNCTIONAL TYPES DERIVED FROM MACHINE LEARNING

Pannimpullath Remanan Renosh, Raphaëlle Sauzède, Julia Uitz, and Hervé Claustre

POSTER 195

DIAGNOSING ALGORITHM DIVERGENCE TO UNDERSTAND RISING SUBSURFACE OCEAN PRODUCTIVITY AT STATION ALOHA

Clara Rodriguez Vives, Hanani Adiwira, Angelique White, Johannes Viljoen, and Lionel Arteaga

POSTER 199

ALARMES-ÁGUA AND CONTOPS: A COUPLED IN SITU-SATELLITE FRAMEWORK FOR CONTINUOUS OPTICAL MONITORING OF SOUTH AMERICAN AQUATIC SYSTEMS

Lino Sander, Nils Haentjens, Renata Libonati, Luiz Felipe Faria de Sousa, Antonio Rodrigues, Lucas Pacheco, and Emmanuel Boss

POSTER 203

VALIDATION OF NASA PACE OCI PRODUCTS FOR THE LAURENTIAN GREAT LAKES

Michael Sayers, Karl Bosse, Ray Watkins, Robert Shuchman, Emmanuel Boss, Nils Haentjens, and Tim Moore

POSTER 207

SPATIAL AND TEMPORAL VARIABILITY IN PARTICULATE ABSORPTION PROPERTIES OF ANTARCTIC COASTAL WATERS ACROSS FOUR FIELD SEASONS

Eva Scrivner*, Jessica Turner, Oscar Schofield, Michael Cappola, and Heidi Dierssen

POSTER 211

VARIABILITIES OF COASTAL UPWELLING AND PHYTOPLANKTON BLOOMS IN RESPONSE TO ENSO EVENTS IN THE WESTERN TAIWAN STRAIT

Shaoling Shang, Shaoping Shang, Yanshuang Xie, Yonghong Li, Jingyu Wu, and Qiang Dong

POSTER 219

FIELD PERFORMANCE AND VALIDATION OF AUTONOMOUS OPTICAL SENSORS FOR PARTICULATE INORGANIC CARBON (PIC)

Qiming Sun*, Georges Fournier, Filip Beunis, Kristiaan Neyts, Chuck Pottsmith, and Griet Neukermans

POSTER 223

PSEUDO-NITZSCHIA BLOOM DETECTION FROM SATELLITE RADIOMETRY IN THE WEST MEDITERRANEAN COAST USING CONVOLUTIONAL NEURAL NETWORKS

Marco Talone, Borja Sánchez-López, Margarita Fernández-Tejedor, Rosa Trobajo, David Mann, Pierre Ramond, and Gonzalo Martínez-Fornos

POSTER 227

PHYTOPLANKTON BIOMASS DYNAMICS AND EMERGING EUTROPHICATION RISK IN SOUTHERN VIETNAM'S ESTUARINE SYSTEMS: A DECADE OF SENTINEL-3/OLCI AND SENTINEL-2/MSI OBSERVATIONS

Manh Tran, Truong An Nguyen, Julien Némery, Julien Masson, Gwenaél Abril, and Vincent Vantrepotte

POSTER 231

ENSURING INTEROPERABILITY OF BGC-ARGO CHLOROPHYLL OBSERVATIONS THROUGH FLUOROMETER INTERCOMPARISON

Julia Uitz, Baptiste Ozanam, Edouard Leymarie, Nathan Briggs, Hervé Claustre, Céline Dimier, Antoine Poteau, Joséphine Ras, and Vincent Taillandier

POSTER 235

TRANSFORMING FISHERIES SURVEYS INTO OPTICS-INFORMED ECOSYSTEM OBSERVATORIES

Ryan Vandermeulen, Cara Wilson, Stephanie Moore, Rowan Cirivello, Heng Gu, Mohamed Abdelmegid, Kimberly Hyde, Colleen Mouw, Audrey Ciochetto, Ryan Rykaczewski, and Dale Robinson

POSTER 239

EXPLORING MEASUREMENTS OF POLARIZED WATER-LEAVING RADIANCE WITH A CIMEL POLARIZED SUN PHOTOMETER

Erica Venkatesulu, Ahmed El-Habashi, and Robert Foster

POSTER 243

SUPPORTING NEAR-REAL-TIME WATER-QUALITY MONITORING VIA STREAM

William Wainwright, Akash Ashapure, Arun Saranathan, and Ryan O'Shea

POSTER 247

KEEPING PACE WITH A CHANGING PLANET: 10 SURPRISING (AND NOT SO SURPRISING) TALENTS REVEALED AFTER 2 YEARS ON ORBIT

Jeremy Werdell and Carina Poulin

POSTER 251

ENSO-INDUCED VARIATIONS IN PACIFIC OCEAN SURFACE ALBEDO AND ASSOCIATED DRIVING MECHANISMS

LT Yu*

POSTER 255

CONTRASTING DRIVERS OF WATER CLARITY: A MULTI-DECADAL SATELLITE ANALYSIS OF TWO TYPES OF LAKES

Yelong Zhao

POSTER SESSION 4

10:30-12:30, THURSDAY, SEPTEMBER 17

POSTER 4

FROM IN SITU TO SATELLITE: EVALUATING THE TRANSFERABILITY OF BIO-OPTICAL RELATIONSHIPS FOR IOP RETRIEVAL IN TROPICAL COASTAL WATERS

Thais Andrade Galvao de Medeiros, Julia Caon Araujo, José Carlos Sícoli Seoane, Milton Kampel, Vittorio Brando, and Maria Laura Zoffoli

POSTER 8

EVALUATING MULTI-MISSION OCEAN COLOR OBSERVATIONS AND BIO-OPTICAL DYNAMICS IN SAGAMI BAY, JAPAN

Robel Milashu Ashenafi*, Koichi Yano, Mia Castillo, Genki Terauchi, Shinji Shimode, and Victor Kuwahara

POSTER 12

IMPLEMENTATION OF GOCI SERIES PAR ALGORITHMS: FROM LOCAL TO FULL DISK COVERAGE

Deuk-Jae Hwang, Robert Frouin, Jing Tan, Jae-Hyun Ahn, and Jong-Kuk Choi

POSTER 16

A MERGED OCEAN COLOR REFLECTANCE AND CHLOROPHYLL-A RECORD FOR THE U.S. COAST

Maxwell Beal, Gianna Milton, Ivona Cetinić, Jeremy Werdell, Kimberly Hyde, Ryan Vandermuelen, and Charles Stock

POSTER 20

PARCAST: DIY-OCEANOGRAPHY SYSTEM FOR PROFILING PAR IN KELP FORESTS

Lori Berberian*, Kyle Cavanaugh, Bradley Stewart, and Henry Houskeeper

POSTER 24

HOW DO WE VALIDATE VALIDATION MEASUREMENTS? INSIGHTS FROM THE 2025 FIELD INTER-COMPARISON EXERCISE (FICE)

Agnieszka Bialek, Giuseppe Zibordi, Dirk Aurin, Juan Ignacio Gossn, Krista Alikas, Vittorio Brando, Jamie Pitarch, Martin Hieronimi, Pietro Sciuto, Gavin Tilstone, Riho Vendt, Ilmar Ansko, Viktor Vabson, Ashley Ramsay, and Ewa Kwiatkowska

POSTER 28

ESTIMATION OF COMMUNITY LEVEL PHYTOPLANKTON STRESS TO MICRO- AND MACRO-NUTRIENTS

Guillaume Bourdin and Emmanuel Boss

POSTER 32

THE HYPERSPECTRAL BIO-OPTICAL OBSERVATIONS SAILING ON TARA (HYPERBOOST) DATASET: VARIABILITY OF THE OPTICAL PROPERTIES AND BIO-OPTICAL RELATIONSHIPS IN EUROPEAN COASTAL WATERS

Vittorio Brando, Federico Falcini, Christian Marchese, Margherita Costanzo, Luis Gonzalez Vilas, Victor Martinez Vicente, Tom Jordan, Stefan Simis, David Doxaran@imev-mer.fr, Chiara Santinelli, Emmanuel Boss, Marie-Helene Rio, Javier Concha, and Colomban de Vargas

POSTER 36

SATELLITE-DERIVED BATHYMETRY FOR RECURSIVE MONITORING OF INTERTIDAL AREAS

Isabel Caballero, Rita González-Villanueva, Irene Alejo, Nicolás Villacieros, Miguel Ángel Nombela, Susana Costas, and Richard P. Stumpf

POSTER 40

HYPERESPECTRAL REFLECTANCE MODEL FOR ORGANIC AND INORGANIC PARTICULATE MATTER CHARACTERIZATION

Catharina Cardoso*, Nikolas Heinz, Ana Paula Forgiarini, and Maria Fernanda Giannini

POSTER 44

FELLOWSHIP OF AGULHAS RINGS AND THEIR SHIFTING PLANKTON REALMS USING PACE

Ivona Cetinic, Maxwell Beal, and Jeremy Werdell

POSTER 48

ALGORITHM DEVELOPMENT AND IMPROVEMENT FOR GOCI-II OCEAN COLOR PRODUCTS

Jongkuk Choi, Myung-Sook Park, Jae-Hyun Ahn, Kyeong-Sang Lee, Eunna Jang, Sun-Ju Lee, and Deuk-Jae Hwang

POSTER 52

REPROCESSING OF ONEARGO CHLOROPHYLL-A DATASET: HIGH-IMPACT FOR END-USERS

Herve Claustre, Raphaelle Sauzède, Catherine Schmechtig, and Julia Uitz

POSTER 56

SYSTEM TESTING OF A HIGH DYNAMIC RANGE ELASTIC BACKSCATTERING POLARIZATION-RAMAN OCEAN LIDAR FOR IN-WATER PLATFORMS

Fraser Dalgleish, Walter Britton, Eric Rehm, Struan Dalgleish, Brad Neimann, and David McKee

POSTER 60

LINKING PHYTOPLANKTON DIVERSITY AND DISSOLVED ORGANIC MATTER DYNAMICS IN THE TYRRHENIAN SEA (MEDITERRANEAN SEA)

Simona Denni*, Elisabetta Canuti, Stefano Cozzi, Claudia Fanelli, Mengyu Li, Giovanni La Forgia, Vincenzo Vellucci, and Emanuele Organelli

POSTER 64

EVALUATING THE "CASE 2" WATERS OF THE SOUTHERN OCEAN: THE OPTICAL PROPERTIES OF GLACIAL MELTWATER

Heidi Dierssen, Eva Scrivner, Jessica Turner, Oscar Scofield, and Jack Pan

POSTER 68

A DEEP LEARNING FRAMEWORK FOR OCEAN OIL SLICK SEGMENTATION USING SENTINEL-1 IMAGERY

Yanzhu Dong

POSTER 72

DECLINING COCCOLITHOPHORE BLOOMS IN THE NORTH ATLANTIC AND WESTERN BARENTS SEA

Lian Feng and Guobin Yu

POSTER 76

MODEL TO ESTIMATE COCCOLITH PIC FROM CROSS-POLARIZED NEAR-FORWARD LIGHT SCATTERING

Georges Fournier, Qiming Sun, and Griet Neukermans

POSTER 80

REMOTE SENSING OF LAKE GARDA: SUPPORTING FUTURE SATELLITE MISSIONS AND MEETING WATER MANAGEMENT NEEDS

Claudia Giardino, Mariano Bresciani, Alice Fabbretto, M. Raffaella Frank, Nicola Ghirardi, Anne J. Greife, Lodovica Panizza, Andrea Pellegrino, and Monica Pinardi

POSTER 84

SPECTRAL LIBRARIES OF COCCOLITHOPHORE STRAINS TO IMPROVE SATELLITE ESTIMATES OF PARTICULATE INORGANIC CARBON

Austin Grubb, Wonkook Kim, Vanessa Strohm, Harrison Smith, Ethan Taylor, and Antonio Mannino

POSTER 88

THE FLEX4WATER PROJECT: PHYSIOLOGY AND SPECIES MAPPING OF GLOBAL WATER PHYTOPLANKTON FROM FLEX-SENTINEL 3 SYNERGY

Tristan Harmel, Soham Mukherjee, Zoé Besnard, Rüdiger Röttgers, Vittorio Brando, Mariano Bresciani, Pierre Gernez, Claudia Giardino, Martin Hieronymi, Sabine Marty, Lodovica Panizza, Jaime Pitarch, and Marco Celesti

POSTER 92

A METHOD FOR COMPUTING REMOTE SENSING REFLECTANCE USING AN OCEAN-ATMOSPHERE SPECTRAL IRRADIANCE MODEL (OASIM)-COUPLED MODEL FOR TOKYO BAY

Hiroto Higa, Jozef Skákala, and Salem Salem

POSTER 96

VALIDATION AND REQUIREMENTS VERIFICATION OF HYPERSPECTRAL REMOTE SENSING REFLECTANCE FROM THE PACE OCEAN COLOR INSTRUMENT (OCI): A MULTI-SOURCE ASSESSMENT

Amir Ibrahim, Bryan Franz, James Allen, Gerhard Meister, Inia Soto Ramos, Chris Proctor, and Jeremy Werdell

POSTER 100

HYPERSPECTRAL GAINS IN OCEAN-COLOUR REMOTE SENSING: KD RETRIEVAL WITH THE PACE OCEAN COLOR INSTRUMENT

Daniel Schaffer Ferreira Jorge, Cedric Jamet, and Hubert Loisel

POSTER 104

CYANOBACTERIA DISCRIMINATION USING SECOND-DERIVATIVE HYPERSPECTRAL ANALYSIS IN OPTICALLY COMPLEX INLAND WATERS

Kersti Kangro, Gladys Villegas, Ian-Andreas Rahn, Joel Kuusk, Dimitry van der Zande, and Krista Alikas

POSTER 108

SPATIAL VARIABILITY IN WATER TRANSPARENCY AND OCEAN COLOR COUPLING IN THE WESTERN ARCTIC OCEAN

Hyun-Cheol Kim and Joo-Eun Yoon

POSTER 112

DIEL OXYGEN- AND OPTICAL-BASED ASSESSMENT OF MARINE BIOLOGICAL PRODUCTION IN THE MEDITERRANEAN SEA USING BGC-SVP DRIFTERS

Zoi Kokkini, Jacopo Busatto, Jaime Pitarch, Maria Laura Zoffoli, Giovanni La Forgia, Emanuele Organelli, Salvatore Marullo, Rosalia Santoleri, Robert Brewin, Benedetto Barone, Luca R. Centurioni, and Marco Bellacicco

POSTER 116

QUANTIFICATION OF PARTICULATE ORGANIC CARBON IN THE GREENLAND SEA AND WEST SPITSBERGEN SHELF WITH USE OF OPTICAL AND BIOGEOCHEMICAL PROXIES

Piotr Kowalczyk, Katarzyna Koziorowska, Justyna Meler, Monika Zabłocka, Katarzyna Dragańska-Deja, Joanna Stoń-Egiert, Karol Kuliński, Colin A. Stedmon, Mats A. Granskog, and Laura de Steur

POSTER 120

CAPTURING THE PULSE OF THE COAST: BIO-OPTICAL SIGNATURES AT THE TOKYO BAY-KUROSHIO INTERFACE FROM 250 M RESOLUTION GCOM-C/SGLI OBSERVATIONS

Victor Kuwahara, Hiroshi Murakami, Shinji Shimode, Koichi Yano, Robel M. Ashenafi, and Mia L. Castillo

POSTER 124

LONG-TERM SHIFTS AND TRANSPORT DRIVERS OF PELAGIC SARGASSUM IN THE MEXICAN CARIBBEAN

Julio Lara Hernandez, Nelson de Almeida Gouveia, Santiago Ramirez Said, and Maycira Costa

POSTER 128

RADIOMETRIC INTERCOMPARISON AND CROSS-CALIBRATION OF GOCI-II WITH VIIRS IN THE NIR BANDS

Eunkyung Lee and Kyeong-sang Lee

POSTER 132

THE PROVOR CTS5: A VERSATILE BGC-ARGO PLATFORM FOR AUTONOMOUS OPTICAL MEASUREMENTS

Edouard Leymarie, Antoine Poteau, Lou Andrès, Vincenzo Vellucci, Catherine Schmechtig, Julia Uitz, and Hervé Claustre

POSTER 136

IDENTIFYING POTENTIAL OPTICAL INDICATORS OF HAB EVENTS USING SENTINEL-2/3 SATELLITES

Maria Lima*, Amália Maria Sacilotto Detoni, Ana B. Barbosa, and Isabel Caballero

POSTER 140

ESTIMATING NET COMMUNITY PRODUCTION FROM HYPERSPECTRAL REMOTE SENSING REFLECTANCE IN OPTICALLY COMPLEX WATERS

Benjamin Lowin* and Sara Rivero-Calle

POSTER 144

ADVANCING THE RETRIEVAL OF BIOGEOPHYSICAL PARAMETERS FROM HYPERSPECTRAL SATELLITE DATA IN OPTICALLY COMPLEX WATERS: THE BALTIC SEA AS A CASE STUDY (PT.2)

Carolina Mander*, Vittorio Brando, Jaime Pitarch, Jeremy Werdell, Ivona Cetinic, and Carina Poulin

POSTER 148

TOWARDS OCEAN PHYTOPLANKTON STOICHIOMETRY FROM PACE

Pauline Martinot, Cédric Fichot, Phoebe Lam, and Katsumi Matsumoto

POSTER 152

OPTICALLY-ENHANCED CHLOROPHYLL A PROFILE GAP-FILLING

Frano Matić, Leon Čatipović, Žarko Kovač, Marija Baččković Koloper, and Marin Vojković

POSTER 156

EVALUATION OF METHODS FOR ESTIMATING SARGASSUM ABUNDANCE: SYNERGIC USE OF MSI/SENTINEL-2 AND OLCI/SENTINEL-3 REMOTE SENSING DATA COMBINED WITH FIELD MEASUREMENTS

Audrey Minghelli, Cristèle Chevalier, Jacques Descloitres, Léa Schamberger, Boubaker Elkilani, Marine Laval, Alex De Silva, Yamina Aimene, Sarah Barbier, Warren Daniel, Philippe Palany, Adan Salazar, Marianne Debue, and Malik Chami

POSTER 160

CHARACTERIZING UV-INDUCED ABSORPTION CHARACTERISTICS EXHIBITED BY DINOFLAGELLATES WITH ASSOCIATED MAAs

Ipanema Mora-Carrera and Timothy Moore

POSTER 164

A HIGH-SPATIAL-RESOLUTION (4KM) AIR-SEA CO₂ FLUXES PRODUCT FOR GLOBAL COASTAL WATER OVER 1998-2020 PERIOD

Vu Son Nguyen, Hubert Loisel, and Roy El Hourany

POSTER 168

FORECAST SIMULATIONS OF SATELLITE-OBSERVED SEA SURFACE RADIANCE

Elora Oades and Erwin Bergsma

POSTER 172

TEMPORAL VARIABILITY AT THE BELGIAN WATERHYPERNET - THORNTON BANK VALIDATION SITE

Francesca Ortenzio, Kevin Ruddick, Quinten Vanhellemont, and Dieter Vansteenwegen

POSTER 176

CHARACTERIZATION OF SETTLING AND DISSOLUTION DYNAMICS OF ALKALINE MINERALS FOR OCEAN ALKALINITY ENHANCEMENT

Sugata Paul, B.B. Cael, and Manon Duret

POSTER 180

HYPERSPECTRAL RADIOMETRIC AND BIO-OPTICAL OBSERVATIONS FROM NORWEGIAN INLAND AND COASTAL WATERS: A FOUNDATION FOR REGIONAL ALGORITHMS, OPTICAL WATER TYPES, AND SATELLITE VALIDATION

Vishnu Perumthuruthil Suseelan, Kai Sørensen, Aria Alinejad, Joseph Landon Garrett, and Tor arne Johansen

POSTER 184

VARIABILITY IN THE LIGHT ABSORPTION COEFFICIENTS OF PHYTOPLANKTON, NAP AND CDOM IN EUROPEAN COASTAL WATERS OVER THE LAST 30 YEARS

Paola Potin

POSTER 188

EXTRACTION OF PHYTOPLANKTON PIGMENTS: EVALUATION OF EXTRACTION SOLVENTS

Josephine Ras, Elisabetta Canuti, Celine Dimier, Julia Uitz, and Hervé Claustre

POSTER 192

A MULTI-PLATFORM OPTICAL AND ACOUSTIC REMOTE SENSING FRAMEWORK FOR PLASTIC DETECTION FROM RIVERS TO COASTAL WATERS

Ils Reusen, Stefan Livens, Liesbeth De Keukelaere, Arne Van Overloop, Marian-Daniel Iordache, Thomas Vandorpe, Nore Praet, Carina Lalyer, Xiebe Stiers, Lisa Devriese, Ana Isabel Catarino, Gert Everaert, Hanne Diels, Ronny Blust, Peter Urban, Thomas Hermans, Hugo Romanelli, and Eric Toorman

POSTER 196

INTEGRATED SATELLITE RETRIEVAL OF MARINE PHYTOPLANKTON INVENTORY AND TRAITS USING A MULTIVARIABLE SEMI-ANALYTICAL FRAMEWORK

Shovonlal Roy

POSTER 200

PACE VALIDATION: IN SITU AOP DATA REQUIREMENTS AND RESULTS

Violeta Sanjuan Calzado, James Allen, Amir Ibrahim, Inia Soto-Ramos, and Christopher Proctor

POSTER 204

TOWARDS HYPERSPECTRAL RANGE-GATING: WIDE-FIELD LED BASED RGB TIME-OF-FLIGHT IMAGING SYSTEM

Jendrik Schmidt*, Georg Ludwig, Enno Peters, Maurice Stephan, and Oliver Zielinski

POSTER 208

THE NEW AND EXCITING PACE INLAND WATERS DATASET

Bridget Seegers

POSTER 212

IS THE SECCHI DISK DEPTH DETERMINED BY THE CONTRAST BETWEEN THE DISK EDGE AND THE BACKGROUND WATER?

Zhehai Shang, Zhongping Lee, Shaoling Shang, and Shuguo Chen

POSTER 220

CHANGES IN GLOBAL FLUVIAL SEDIMENT CONCENTRATIONS AND FLUXES INTO OCEAN BETWEEN 1985 AND 2020

Xianghan Sun

POSTER 224

A NOVEL ALGORITHM FOR PARTICLE OPTICAL PROPERTIES AND SPM RETRIEVAL IN TURBID COASTAL WATERS

Juliana Tavora, Amanda de Liz Arcari, Suhyb Salama, Cédric C. Fichot, Joshua P. Harryngmeyer, Federica Braga, Emmanuel Boss, David Doxaran, and Romaric Verney

POSTER 228

SOUTHERN OCEAN CARBON FROM SPACE: MULTI-SENSOR OCEAN COLOR ESTIMATES OF AIR-SEA CO₂ FLUX REVEAL THE IMPORTANCE OF THE ANTARCTIC COASTAL ZONE

Jessica Turner, Heidi Dierssen, Amanda Fay, Heather Kim, David Munro, Oscar Schofield, Eva Scrivner, and Sharon Stammerjohn

POSTER 232

EOF-BASED HYPERSPECTRAL MODEL TO RETRIEVE PHYTOPLANKTON FUNCTIONAL TYPES ON COASTAL WATERS

Nikolas Heinz*, Catharina Cardoso, Ana Paula Forgiarini, Carlos Rafael Mendes, Áurea Ciotti, and Fernanda Giannini

POSTER 236

PACE/OCI ATMOSPHERIC CORRECTION FOR COASTAL AND INLAND WATERS USING ACOLITE AND LIBRADTRAN

Quinten Vanhellemont and Kevin Ruddick

POSTER 240

ASSESSING THE IMPACT OF THE LOWER SESAN 2 DAM ON SPM AND POC CONCENTRATIONS IN THE 3S-MEKONG CONFLUENCE VIA HIGH-SPATIAL RESOLUTION SATELLITE IMAGERY

Charles Verpoorter, Julien Masson, and Cédric Jamet

POSTER 244

IMPLEMENTATION OF THE UNDERWAY FLOW-THROUGH OPTICAL SYSTEM (UFO) AND PIGMENT ANALYSIS USING HPLC DATA ACROSS THE LAURENTIAN GREAT LAKES

Ray Watkins, Karl Bosse, Michael Sayers, Nils Haëntjens, Emmanuel Boss, and Robert Shuchman

POSTER 248

K_{lidar} VERSUS K_d : A REVISIT OF GORDON'S CONCLUSIONS

Xiuling Wu

POSTER 252

TWO DECADES OF OCEAN COLOR AND THERMAL FRONT VARIABILITY IN THE CHINESE COASTAL OCEAN

Ninghui Zhang*, Lian Feng, and Chunmiao Zheng

POSTER 256

SWAMPY (SHALLOW WATER SEMI-ANALYTICAL MODEL IN PYTHON)

Maria Laura Zoffoli, Simon Oiry, Claudia Giardino, Federica Braga, Giuliana Profeti, and Vittorio E. Brando