

Conference EU Jean Monnet Chair - Saint Malo

EU COMARE

European spatial data for COastal and MARine REMote sensing

Cofinancé par le
programme Erasmus+
de l'Union européenne



INSTITUT
UNIVERSITAIRE
EUROPEEN
DE LA MER



ISblue

The interdisciplinary
graduate school
for the blue planet



Springer

EUCOMARE Conference: 17–19 May 2022

Saint Malo, France

EUCOMARE Programme Overview

17-05-2022

8h30-9h00

Reception of the participants

Distribution of the *Conference-map*

9h00-9h40

Opening words : **Dr. HDR. Simona NICULESCU, Pr. Fred JEAN, Pr. Tristan MONTIER**

9h40-10h30

Key Note Speaker : Pr. Dar Roberts,

University of California Santa Barbara, Lab. VIPER, USA

"Imaging Spectrometry and Coastal Oil Spills: Examples from the Deepwater Horizon".

10h30-11h00

Presentations : session 1

12h30-14h00

Lunch Break

14h00-16h30

Presentations : session 1

16h30-17h15

Key Note Speaker: Dr. Marc Lennon

Hytech-Imaging.

"Hyperspectral remote sensing in the coastal zone : from the detection of submerged archeological sites to intertidal algal mapping. Examples from the Iroise Natural Marine Park"

18-05-2022

8h30-9h00

Reception of the participants

Conference EU Jean Monnet Chair - Saint Malo

EU COMARE

European spatial data for COastal and MARine REMote sensing

Cofinancé par le
programme Erasmus+
de l'Union européenne



INSTITUT
UNIVERSITAIRE
EUROPÉEN
DE LA MER



ISblue

The interdisciplinary
graduate school
for the blue planet



Springer

09h00-9h40

Key Note Speaker : Dr. Emiliano Agrillo, *Institute for Environmental Protection and Research (ISPRA), Italy*
"Using Proximal and Remote sensing Multispectral Data For Italian Coastal Ecosystems Monitoring".

10h00-11h30

Presentations : session 1

11h30-12h30

Presentations : session 2

12h30-14h00

Lunch Break

14h00-15h30

Presentations : session 3

19-05-2022

9h00-9h40

Key Note Speaker : Dr. Melanie Lück-Vogel,
CSIR, Stellenbosch, South Africa

"Coastal vulnerability and climate change adaptation in South Africa: Remote sensing challenges and opportunities".

10h00-10h30

Presentations : session 4

10h30-12h30

Presentations : session 5

12h30-14h00

Lunch Break

14h00-15h30

Presentations : session 5

15h30-16h15

Key Note Speaker : Mr. Olivier Michel, *Unseenlabs*

"Radio frequency data and marine area protection issues".

16h15-16h45

Poster session

16h45-17h15

Restitution and Closing of the event

19h

Dinner reception

EUCOMARE- Detailed programme

Date	Activities	Spokesperson	Time	
17-05-2022	Reception of the participants		8h30-9h	
	Opening words	<p>Dr. HDR. Simona NICULESCU (IUEM- University of Western Brittany)</p> <p>Pr. Fred JEAN (Director of IUEM)</p> <p>Pr. Tristan MONTIER (Vice President of University of Western Brittany)</p>	9h00-9h40	
	Keynote Speaker	<p>Pr. Dar ROBERTS University of California Santa Barbara, Lab. VIPER, USA</p> <p><i>“Imaging Spectrometry and Coastal Oil Spills: Examples from the Deepwater Horizon”</i></p>	9h40-10h30	
	Moderator : Dar Roberts (University of California Santa Barbara, USA)/ Soumia Bengoufa (University of Western Brittany)			
	Session 1 : Marine, Coastal and Aquatic ecosystems’ monitoring and biodiversity management	SHIFTS IN SALT MARSH VEGETATION LAND COVER AFTER DEBRIS FLOW DEPOSITION S. German D., D. A. Roberts A., McF Joseph P., Y. King Jennifer		10h30-11h00
		SPATIOTEMPORAL TRENDS OF BORA BORA’S SHORELINE MOVEMENT AND CLASSIFICATION USING HIGH RESOLUTION IMAGERY FROM 1955 TO 2019 E. Gairin, A. Collin, D. James, D. Lecchini		11h00-11h30

EUCOMARE- Detailed programme

		<p>SATELLITE-DERIVED TOPOGRAPHY AT VERY HIGH RESOLUTION FOR COASTAL HABITAT MAPPING: THE PLEIADES-1 TRI-STEREO ENHANCEMENT</p> <p>D. James, A. Collin, A. Mury, R. Qin</p>	11h30-12h
	Lunch break		12h00-14h
	<p>Moderator : Junshi XIA (Geoinformatics Unit with RIKEN AIP, Japan) / Jarbas BONETTI (Universidade Federal de Santa Catarina, Brazil)</p>		
	<p>Session 1 : Marine, Coastal and Aquatic ecosystems' monitoring and biodiversity management</p>	<p>EASY-IMPLEMENTED METHODS OF RADIOMETRIC CORRECTIONS FOR HYPERSPECTRAL-UAV - APPLICATION TO GUIANESE EQUATORIAL MUDBANKS COLONIZED BY PIONEER MANGROVES</p> <p>M. Jaud, G. Sicot, G. Brunier, N. Le Dantec, E. Michaud, J. Ammann, Ph. Grandjean, P. Launeau, G. Thouzeau, J. Fleury, C. Delacourt</p>	14h-14h30
<p>DISTRIBUTION OF SEAWEED HABITATS ON THE SHORE COMBINING FIELD SAMPLING AND HYPERSPECTRAL REMOTE MAPPING</p> <p>W. Diruit, A. Le Bris, T. Bajjouk, S. Richier, T. Burel, M. Lennon, M. Helias, E. Ar Gall.</p>		14h30-15h	

EUCOMARE- Detailed programme

		<p>UNDERSTANDING OF URBAN DYNAMICS: A REMOTE SENSING APPROACH (CASE OF ALGIERS METROPOLIS, ALGERIA)</p> <p>N. Abboud , Y. Djellouli, N. Yahi, S. Niculescu , S. Bengoufa, K.Abbad , F. Messner</p>	15h-15h30
		<p>OPEN SOURCE AERIAL DATA FUSION TO ASSESS VEGETATION RECOLONISATION AT VERY HIGH RESOLUTION/ A COASTAL ECOSYSTEM SERVICES PERSPECTIVE FOR THE MARQUENTERRE REGION (FRANCE)</p> <p>Eric Masson</p>	15h30-16h
		<p>DETECTION OF COCCOLITHOPHORES BLOOM EPISODES IN ALGIERS-BAY USING SATELLITE AND IN SITU ANALYSIS</p> <p>R. Harid, H. Demarcq, S. Amanouche, M. Ait-Kaci, N.E.I. Bachari, F. Houma</p>	16h-16h30
	Keynote Speaker	<p>Dr. Marc LENNON Hytech-Imaging.</p> <p><i>“Hyperspectral remote sensing in the coastal zone: from the detection of submerged archeological sites to intertidal algal mapping. Examples from the Iroise Natural Marine Park”</i></p>	16h30-17h15

EUCOMARE- Detailed programme

18-05-2022	Reception of the participants		8h30-9h
	Keynote Speaker	<p>Dr. Emiliano AGRILLO, <i>Institute for Environmental Protection and Research (ISPRA), Italy</i></p> <p><i>“Using Proximal and Remote sensing Multispectral Data For Italian Coastal Ecosystems Monitoring”</i></p>	9h-9h45
	Moderators: Marion JAUD (IUEM, University of Western Brittany) / Antoine COLLIN (Ecole Pratique des Hautes Études (EPHE), PSL Université de recherche, France)		
	Session 1 : Marine, Coastal and Aquatic ecosystems’ monitoring and biodiversity management	<p>ASSESSMENT OF RTK QUADCOPTER AND STRUCTURE-FROM-MOTION PHOTOGRAMMETRY FOR FINE-SCALE MONITORING OF COASTAL TOPOGRAPHIC COMPLEXITY</p> <p>S. Bertin, P. Stéphan, J. Ammann</p>	10h-10h30
		<p>VERY HIGH RESOLUTION SATELLITE DERIVED BATHYMETRY AND HABITAT MAPPING USING PLEIADES-1 AND ICESAT-2</p> <p>A. LeQuilleuc, A. Collin, R. Devillers</p>	10h30-11h
	<p>LOCAL CIRCALITTORAL ROCKY SEASCAPE STRUCTURING FISH COMMUNITY: INSIGHTS FROM A PHOTOGRAMMETRIC APPROACH</p> <p>Q. Ternon, A. Collin, E., Feunteun, F. Ysnel, V. Danet, M. Guillaume, P. Thiriet</p>	11h-11h30	

EUCOMARE- Detailed programme

	Session 2 : Coastal Wetlands	EARTH OBSERVATION OF PALUSTRINE WETLANDS ON SOUTH AFRICA'S MAPUTALAND COASTAL PLAIN Van Deventer Heidi	11h30-12h
		MULTISCALE SPATIOTEMPORAL NDVI MAPPING OF SALT MARSHES USING SENTINEL-2, DOVE, AND UAV IMAGERY IN THE BAY OF MONT-SAINT-MICHEL, FRANCE A. Collin , D. James , A. Mury , M. Letard, T. Houët , H. Gloria, E. Feunteun	12h-12h30
	Lunch break		12h30-14h
	Moderator : OKANGA-GUAY Marjolaine (University of Omar Bongo, Gabon)		
	Session 3: Land Use / Land Cover – Sea Use / Sea Cover and planning	MONITORING LAND COVER CHANGE IN THE SOUTH-EASTERN BALTIC SEA SINCE THE 1980s BY REMOTE SENSING S. Gadal , T. Gloaguen.	14h-14h30h
	MAPPING WINTER CROP TYPES USING SENTINEL-2 DATA MACHINE LEARNING AND MONITORING CROP PHENOLOGY WITH SENTINEL-1 BACKSCATTER TIME SERIES IN PAYS DE BREST, BRITTANY, FRANCE. G. Xie, S. Niculescu	14h30-15h	

EUCOMARE- Detailed programme

		ASSESSMENT OF LAND COVER CHANGES IN THE ALLALA WATERSHED BASED ON OBJECT BASED IMAGE ANALYSIS USING LANDSAT AND SENTINEL-2 IMAGES N. Zaabar, S. Niculescu , M. K. Mihoubi	15h-15h30
	Boat trip in the bay of Saint Malo		16h30
19-05-2022	Reception of the participants		8h30-9h
	Keynote Speaker	Dr. Melanie Lück-Vogel, CSIR, Stellenbosch, South Africa "Coastal vulnerability and climate change adaptation in South Africa: Remote sensing challenges and opportunities"	9h00-9h45
	Moderators : Heidi van Deventer (Council for Scientific and Industrial Research, South Africa)		
	Session 4 : Deep Learning and artificial intelligence innovation	DEEP LEARNING BASED BATHYMETRY MAPPING FROM MULTISPECTRAL SATELLITE DATA AROUND EUROPA ISLAND K. Mодоosoodun Nicolas, L. Drumetz, S. Lefèvre, D. Tiede, T. Bajjouk	10h-10h30

EUCOMARE- Detailed programme

Session 5 : Marine, Coastal and Aquatic geomorphology and risk management	<p>THE SANDING-UP OF THE SEINE-MARITIME INTERTIDAL AREA (NORMANDY, FRANCE) : TOWARDS A HIGH FREQUENCY MONITORING USING SATELLITE IMAGE ANALYSIS</p> <p><i>B. Peuziat, S. Costa, C. Lissak, D. James, A. Collin, B. Tessier</i></p>	10h30-11h
	<p>ASSESSMENT OF COASTAL VULNERABILITY TO EROSION RISK USING GEOSPATIAL AND REMOTE SENSING METHODS (CASE OF JERBA ISLAND, TUNISIA)</p> <p><i>A.Boussetta, S.Niculescu, S. Bengoufa, M.F. Zagram</i></p>	11h-11h30
	<p>RANDOM FOREST APPROACH FOR EVALUATING FOREST COVER CHANGES OUTSIDE DYKES WITH SENTINEL IMAGES</p> <p><i>N. C. Lam, H. X. Huynh, S. Niculescu, Q. D. Nguyen, N. C. Vo Nguyen</i></p>	11h30-12h
	<p>BEACH EROSION MONITORING A SPATIAL ASSESSMENT OF COASTAL PROTECTION EFFORT, CASE OF THE TOURISTIC BEACH "PALM BEACH, WEST-ALGIERS ALGERIA"</p> <p><i>W. Rabehi, H. Otmani, M. S. Karoui, M. A. Bouhlala, S. Kreri, O. Benabbou, M. El Amin Larabi, H. Dellani</i></p>	12h-12h30
	Lunch break	

EUCOMARE- Detailed programme

Moderators : Daniela FAUR (University POLITEHNICA of Bucharest, Romania)		
Session 5 : Marine, Coastal and Aquatic geomorphology and risk management	NEW INSIGHTS INTO THE SHALLOW MORPHO-SEDIMENTARY PATTERNS USING HIGH-RESOLUTION TOPO-BATHYMETRIC LIDAR: THE CASE STUDY OF THE BAY OF SAINT-MALO B.Caline, A. Collin, Y. Pastol, M. Letard, E. Feunteun	14h-14h30
	USING THE LANDSAT SATELLITE IMAGES TO MONITOR SEA-BANK MORPHOLOGICAL CHANGES IN SOC TRANG PROVINCE, VIETNAM T. V. Ty, D. V. Duy, H. T. C. Hong, N. D. G. Nam, H. V. T. Minh, N. Vo Chau Ngan, N. H. Trung	14h30-15h
	AUTOMATIC DETECTION OF HYDRODYNAMICAL AND BIOLOGICAL INDICATORS OF SHORELINE USING AN OBJECT BASED IMAGE CLASSIFICATION AND CONVOLUTIONAL NEURAL NETWORK. S. Bengoufa, S.Niculescu, MK. Mihoubi , R. Belkessa , K. Abbad	15h-15h30
Keynote Speaker	Mr. Olivier MICHEL, Unseenlabs <i>"Radio frequency data and marine area protection issues"</i> .	15h30-16h15
Poster Session: projection and debate	VERY HIGH-RESOLUTION MONITORING AND EVALUATION OF TIDAL AND ECOLOGICAL RESTORATION IN BEAUSSAIS' BAY D. James, A. Collin, A. Mury, M. Letard, O. Legal, A. Lequilleuc	16h15-16h45

EUCOMARE- Detailed programme

	<p>ASSESSMENT OF SHORELINE CHANGE OF JERBA ISLAND BASED ON REMOTE SENSING DATA AND GIS USING DSAS TOOLS</p> <p>A. Boussetta, S. Niculescu, S. Bengoufa, M.F. Zagrarni</p>	
	<p>CONTRIBUTION OF INFRARED WAVEBANDS TO COASTAL ECOGEOLOGICAL SYSTEMS MAPPING</p> <p>A. Mury, A. Collin, D. James, M. Letard</p>	
	<p>INCREASING THE NATURE-BASED COASTAL PROTECTION USING BATHYMETRIC LIDAR, TERRAIN CLASSIFICATION, NETWORK MODELLING: REEFS OF SAINT-MALO'S LAGOON?</p> <p>A. Collin, Y. Pastol, M. Letard, L. LeGoff, J. Guillaudeau, D. James, E. Feunteun</p>	
	<p>SPATIAL MODELING OF THE BENTHIC GEOBIODIVERSITY USING TOPO-BATHYMETRIC LIDAR AND NEURAL NETWORKS</p> <p>A. Bulot, A. Collin, M. Letard, E. Feunteun, L. Le Goff, Y. Pastol, B. Caline</p>	
	<p>Debate, Restitution and closing</p>	<p>16h45-17h15</p>
	<p>Dinner reception</p>	<p>19h</p>