

Programme Agenda

Day 1 - 11/12/2018

Room: Big Hall

Opening Session

Chairs: Arino, Olivier (ESA- ESRIN), El Hadani, Driss (Royal Center for Remote Sensing (CRTS))

09:00 - 10:00

09:00 **Welcome, Agenda, Copernicus, DIAS and TEPs**

Desnos, Yves-Louis, ESA

09:20 **Priority Environmental Issues in the Mediterranean**

Silvestri, Cecilia, Isprambiente, Italy

09:40 **GEO-CRADLE Initiative: Coordination and Integration of EO Activities Accelerating the Development of Links with Copernicus & GEO/GEOSS**

Presenting author: Tsouni, Alexia

Kontoes, Haris; Tsouni, Alexia, National Observatory of Athens, Greece

Coffee break & TEPs demo

10:00 - 10:30

Land 1

Chairs: Aureli, Alice (UNESCO), Brocca, Luca (National Research Council of Italy), San-Miguel-Ayanz,

Jesus (JRC)

10:30 - 12:30

10:30 **Developing an Earth Observation Component for the Mediterranean Water Knowledge Platform**

Mino, Eric, SEMIDE, France

10:50 **Enhance Water Security And Resilience To Climatic Change In Coastal Zones Through Sustainable Coastal Aquifers Management**

Aureli, Alice, UNESCO, France

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11:10 Land surface Interactions with the Atmosphere over the Iberian Semi-arid Environment (LIAISE) Project

Presenting author: Polcher, Jan

Boone, Aaron Anthony (1); Best, Martin (2); Cuxart, Joan (3); Polcher, Jan (4); Quintana-Segui, Pere (5); Garrigues, Sebastien (6); Tramblay, Yves (7); Zrib, Mehrez (8); Albergel, Clement (1); Bastin, Sophie (4); Bourdon, Aurelien (1); Brooke, Jenifer (2); Canut-Rocafort, Guylaine (1); Calvet, Jean-Christophe (1); Donier, Sylvie (1); Haeffelin, Martial (4); Jarlan, Lionel (8); Le Moigne, Patrick (1); Le Page, Michel (8); Lohou, Fabienne (9); Lothon, Marie (9), 1: CNRM-Meteo-France/CNRS, France; 2: UKMO, Exeter, UK; 3: Universitat de les Illes Balears, Spain; 4: IPSL/CNRS, France; 5: Observatori de l'Ebre, Spain; 6: INRA/EMMAH, France; 7: IRD Hydrosciences, France; 8: CESBIO, France; 9: Laboratoire d'Aerologie, France

11:30 Role of Satellite Soil Moisture and Precipitation for Hydrometeorological Hazard Prediction in the Mediterranean Region

Brocca, Luca, National Research Council of Italy, Italy

11:50 Using Remote Sensing Data and Land-Surface Models to Understand and Monitor Drought in Iberia within the HUMID Project.

Quintana Seguí, Pere (1); Escorihuela, María José (2); Barella Ortiz, Anas (1); Gao, Qi (2); Polcher, Jan (3); Boone, Aaron (4), 1: Fundació Observatori de l'Ebre, Spain; 2: isardSAT, Barcelona; 3: Laboratoire de Météorologie Dynamique, France; 4: CNRM-GAME (Météo-France CNRS), France

12:10 Wildfire Monitoring in the Mediterranean through the European Forest Fire Information System (EFFIS)

San-Miguel-Ayanz, Jesus, JRC, Italy

Lunch Break

12:30 - 13:30

Land 2

Chairs: Bruzzone, Lorenzo (Università di Trento), Milcinski, Grega (Sinergise)

13:30 - 15:50

13:30 Regional and National Scale Surface Deformation Analysis through Advanced Space-borne Radar Interferometry Techniques

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Manunta, Michele, CNR-IREA, Italy

13:50 High Resolution Landcover of Italy

Bruzzone, Lorenzo, Università di Trento, Italy

14:10 Mediterranean Wetlands Monitoring Using Spatial Indicators Derived From EO Data

Guelmami, Anis, Tour du Valat, France

14:30 The MedCLIVAR Network and the Need for a Sustained Satellite Observation Programme

Lionello, Piero; Steering Group, The MedCLIVAR, University of Salento, Italy

14:50 On-going Monitoring of Surface Water

Milcinski, Grega, Sinergise, Slovenia

15:10 Sentinel-1 Soil Moisture Product At 1 km Resolution Over The Mediterranean Basin

Balenzano, Anna (1); Satalino, Giuseppe (1); Lovergine, Francesco (1); D'Addabbo, Annarita (1); Mattia, Francesco (1); Palmisano, Davide (1); Refice, Alberto (1); Iacobellis, Vito (2); Manfreda, Salvatore (3); Brocca, Luca (4); Rinaldi, Michele (5); Pierdicca, Nazzareno (6); Pulvirenti, Luca (7); Davidson, Malcolm (8); Cosh, Michael (9), 1: Consiglio Nazionale delle Ricerche (CNR) - Istituto per il Rilevamento Elettromagnetico dell'Ambiente (IREA); 2: Politecnico di Bari (PoliBa)- Dipartimento di Ingegneria Civile, Ambientale, del Territorio, Edile e di Chimica (DICATECh); 3: Univerisit degli Studi della Basilicata (Unibas) -Dipartimento delle Culture Europee e del Mediterraneo (DICEM); 4: Consiglio Nazionale delle Ricerche (CNR) - Istituto di Ricerca per la Protezione Idrogeologica (IRPI); 5: (2) Consiglio per la Ricerca in Agricoltura e l'Analisi dell'Economia Agraria (CREA); 6: Sapienza Universit di Roma - Dipartimento di Ingegneria dell'Informazione, Elettronica e Telecomunicazioni; 7: CIMA Research Foundation; 8: European Space Agency (ESA) - ESTEC; 9: USDA - Agricultural Research Service (ARS) - Hydrology and Remote Sensing Laboratory

15:30 Round Table Land

Chairs, Land, .

Coffee break & TEPs demo

15:50 - 16:20

Sea 1

Chairs: Santoleri, Rosalia (CNR-ISAC), Cau, Dario (MIT), Sylos Labini, Giovanni (Planetek Italia Srl)

16:20 - 18:00

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16:20 Geo-analytics for the Mediterranean wealth

Sylos Labini, Giovanni, Planetek Italia Srl, Italy

16:40 Regional Algorithms For The Observation Of Phytoplankton Functional Types And Size Classes From Space In The Mediterranean Sea

Di Cicco, Annalisa (1); Sammartino, Michela (1); Marullo, Salvatore (2); Colella, Simone (1); Santoleri, Rosalia (1), 1: CNR (National Research Council), Rome - Italy; 2: ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), Frascati - Italy

17:00 The Mediterranean multi-sensor satellite Observing System for the Copernicus Marine Service: present state and future perspectives

Santoleri, Rosalia (1); Buongiorno Nardelli, B. (1); Brando, V. (1); Colella, S. (2); Marullo, S. (2); Pisano, A. (1); Volpe, G. (1); Bellacicco, M. (2); Bracaglia, M. (1); Sanmartino, M. (1); Falcini, F. (1); Tronconi, C. (1), 1: CNR-ISAC, Italy; 2: ENEA

17:20 Italian Coast Guard Current and Future use of Copernicus Services

Cau, Dario, MIT, Italy

17:40 Remote Sensing SSS in the Mediterranean: Prospects and Applications

Turiel, Antonio (1,2); Olmedo, Estrella (1,2); Martínez, Justino (1,2); Gonzalez-Gambau, Veronica (1,2); Gabarro, Carolina (1,2); Isern-Fontanet, Jordi (1,2); Portabella, Marcos (1,2), 1: Barcelona Expert Center, Spain; 2: Institute of Marine Sciences

Poster Session and Welcome Cocktail

18:00 - 19:30

Remote Sensing for the Study of Water Resources in the Mediterranean Landscapes. Case of the Tensift Watershed (Marrakech, Morocco)

Simonneaux, Vincent (1); Er-Raki, Salah (2); Alaouri, Meriem (3); Benkaddour, Abdelfattah (2); Berjami, Brahim (4); Boudhar, Abdelghani (5); Chakir, Adnane (1); Chehbouni, Abdelghani (1); Dezetter, Alain (6); Ezzahar, Jamal (7); Fakir, Younes (8); Fanise, Pascal (2); Gascoin, Simon (1); Hanich, Lahoucine (2); Jarlan, Lionel (1); Kasbani, Mohamed (1); Khabba, Said (2); Kharrou, Hakim (9); le Page, Michel (1); Merlin, Olivier (1); Raibi, Fatima (10); Saidi, Mohamed El Mehdi (2); Trambly, Yves (6); Ait Hssaine, Bouchra (8); Amazirh, Abdelhakim (8); Aouade, Ghizlane (8); Bennani, Oumaima (2); Bouras, Elhoussaine (2); Diarra, Alhousseine (8); El Farkh, Jamal (8); Hajhouji, Youssef (8); El Khalki, El Mehdi (2); Kherrou, Sofiane (2); Nassah, Houda (8); Ouaadi, Nadia (8); Rafi, Zoubair (8); Sefiani, Salma (8); Toumi, Jihad (8); Zkhiri, Wiam (2), 1: Centre d'Etudes Spatiales de la Biosphère, Toulouse, France; 2: Faculté des Sciences et Techniques,

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Université Cadi Ayyad, Marrakech, Maroc; 3: Direction de la Météorologie Nationale, Casablanca, Maroc; 4: Agence de Bassin Hydraulique du Tensift, Marrakech, Maroc; 5: Université Sultan Moulay Slimane, Beni-Mellal, Maroc; 6: Hydrosiences Montpellier, France; 7: Ecole Nationale des Sciences Appliquées de Safi, Université Cadi Ayyad (UCAM), Maroc; 8: Faculté des Sciences Semlalia, Université Cadi Ayyad (UCAM), Marrakech, Maroc; 9: Office Régional de Mise en Valeur Agricole du Haouz, Marrakech, Maroc; 10: Centre National de l'Energie des Sciences et des Techniques Nucléaires, Kenitra, Maroc

Cross-Scale Evaluation Of Satellite Precipitation Products Over Land

Markonis, Yannis (1); Strnad, Filip (1); Nikolopoulos, Efthymios (2); Hanel, Martin (1), 1: Czech University of Life Sciences Prague, Czech Republic; 2: University of Connecticut, USA

The RUS service : Fostering Sentinel data for R&D over the Mediterranean basin

Bonneval, Beatrice (1); Palazzo, Francesco (1); Remondiere, Sylvie (1); Smejkalova, Tereza (1); Castro-Gomez, Miguel (1); Gilles, Chloe (1); Guzzonato, Eric (2); Mora, Brice (2), 1: Serco Italy SpA, Italy; 2: CS-SI France

ACCWA: An Innovative Set of Remote Sensing Based Monitoring Tools for Agriculture and Water Management in the Mediterranean Region; the Ebre Basin Case Study.

Escorihuela, Maria Jose (1); Quintana-Seguí, Pere (2); Stefan, Vivien (1); Indrio, Gianfranco (1); Merlin, Olivier (3), 1: isardSAT, Barcelona; 2: Observatori de l'Ebre, Roquetes; 3: CESBIO, Toulouse

Has The Fresh Water Flux From The Continents To The Mediterranean Sea Been Underestimated?

Wang, Fuxing; Polcher, Jan, LMD-IPSL/CNRS, France

Extraction Of Smos Soil Moisture And Ocean Salinity Main Features Across The Mediterranean Region Over The Last Decade

Bueso Acevedo, Diego (1); Piles Guillem, Maria (2); Ballabrera-Poy, Joaquim (3); Camps-Valls, Gustau (4), 1: Universitat de Valncia, Spain; 2: Universitat de Valncia, Spain; 3: CSIC, Spain; 4: Universitat de Valncia, Spain

Mapping The Dynamics Of Water Bodies In NW Bulgaria By Nonlinear Methods

Nikolov, Hristo (1); Atanasova, Mila (2), 1: Space research and technology institute; 2: National Institute of Geophysics, Geodesy and Geography, Bulgaria

The Future of the Past: Study and Enhancement of Ancient Doclea (Montenegro)

Cozzolino, Marilena (1); Gentile, Vincenzo (2); Merola, Pasquale (1); Koprivica, Tatjana (3); Alberti, Lucia (1); Colosi, Francesca (1); D'Eredit, Antonio (1); Moscati, Paola (1); Sfameni, Carla (1); Burzanoviæ, Slavko (3); Pelcer-Vujaèiæ, Olga (3); Lakoviæ, Ivan (3), 1: CNR, ISMA-ITABC Rome, Italy; 2: Independent Researcher; 3: University of Montenegro,

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Historical Institute, Podgorica, Montenegro

New ICT Compressive Sensing based Trends applied to: Multimedia, Biomedicine and Communications

Draganic, Andjela, University of Montenegro, Montenegro

Cloud Computing Implementation of a Neural Classifier for Remotely Sensed Hyperspectral Images

Paoletti, Mercedes Eugenia; Haut, Juan Mario; Plaza, Javier; Plaza, Antonio, University of Extremadura, Spain

Urban Areas Change Detection Based on Multitemporal Sentinel Data and Fully Automatic Neural Networks Algorithms

Del Frate, Fabio (1); Benedetti, Alessia (1); Picchiani, Matteo (2); Schiavon, Giovanni (2), 1: University of Rome "Tor Vergata", Italy; 2: GEO-K SRL, Italy

Monitoring The Earth's Crust Deformations In Provardia Area

Atanasova, Mila (1); Nikolov, Hristo (2), 1: National Institute of Geophysics, Geodesy and Geography, Bulgaria; 2: Space research and technology institute

GIMS: an innovative low-cost System to Monitor Ground Deformations Based on EGNSS, Sentinel InSAR and Inertial Measurement Units.

Realini, Eugenio; Sampietro, Daniele, Geomatics Research & Development s.r.l., Italy

East Mediterranean Sea crustal structure from GOCE-based global gravity data

Sampietro, Daniele (1); Capponi, Martina (2), 1: Geomatics Research & Development s.r.l., Italy; 2: Politecnico di Milano, Italy

A New Tool for Disaster Risk Reduction and Management in the United Kingdom

Kantamaneni, Komali (1); Sur, Koyel (2,3); Allali, Belqais (4); Dos Santos, Elisa Volker (5); Srivastava, Sanjay (2,6), 1: Southampton Solent University, United Kingdom; 2: Indian Space Research Organisation (ISRO) India; 3: Anand Agriculture University (ICAR), India; 4: Salford University, United Kingdom; 5: Technologist at the Ministry of Science, Technology, Innovations and Communications, Brazil; 6: Lightning Safety Council of India

Use of Satellite Data for the Validation of a High-Resolution Model of the Mediterranean Sea-Black Sea System

Iacono, Roberto; Bargagli, Andrea; Carillo, Adriana; Lombardi, Emanuele; Napolitano, Ernesto; Palma, Massimiliano; Pisacane, Giovanna; Sannino, Gianmaria; Struglia, Maria Vittoria, ENEA, Italy

The Mediterranean Ocean Colour Level 3 Operational Multi-Sensor Processing

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Volpe, Gianluca (1); Colella, Simone (1); Brando, Vittorio (1); Forneris, Vega (1); La Padula, Flavio (1); Di Cicco, Annalisa (1); Sammartino, Michela (1); Bracaglia, Marco (1,2); Artuso, Florinda (3); Santoleri, Rosalia (1), 1: ISAC-CNR, Italy; 2: Universit degli Studi di Napoli Parthenope, Italy; 3: Ente per le Nuove tecnologie l'Energia e l'Ambiente, Italy

Modeled Biogeochemical Response of the Mediterranean to the Transient SRES A2 Climate Change Scenario.

Richon, Camille (1); Dutay, Jean-Claude (1); Bopp, Laurent (2); Le-vu, Briac (1); Orr, James (1); Somot, Samuel (3); Dulac, Francois (1), 1: LSCE, France; 2: ENS, Paris; 3: meteo france

Characterization Of Ocean Submesoscale Turbulence Regimes From Satellite Observations of Sea Surface Temperatures In The Ionian Sea

Isern-Fontanet, Jordi (1,2); Turiel, Antonio (1,2); Olmedo, Estrella (1,2); Masdeu, Marta (1,2), 1: Institut de Ciencies del Mar (CSIC), Spain; 2: Barcelona Expert Centre in Remote Sensing

Orbital EOS: towards a Multimission Marine Pollution Monitoring Service

Pea, Juan, Orbital EOS, Spain

Towards Plastic Litter Detection from Space: a Proposal for Calibration and Validation Infrastructure

Topouzelis, Konstantinos; Papakonstantinou, Apostolos, University of the Aegean, Greece

Multi-Temporal Analysis Of Particulate And Dissolved Matter In The North Adriatic Sea

Bracaglia, Marco (1,2); Brando, Vittorio Ernesto (1); Volpe, Gianluca (1); Colella, Simone (1); Dionisi, Davide (1); Falcini, Federico (1); Braga, Federica (3); Riminucci, Francesco (4); Ravaioli, Mariangela (4); Böhm, Emanuele (1); Santoleri, Rosalia (1), 1: Consiglio Nazionale delle Ricerche -Via del Fosso del Cavaliere, 100 - 00133 Rome, Italy; 2: Universita degli Studi di Napoli Parthenope, Via Amm. F. Acton 38, 80133, Naples, Italy; 3: Istituto di Scienze Marine (CNR-ISMAR), Arsenale-Tesa 104, Castello 2737/F, 30122 Venice, Italy; 4: Istituto di Scienze Marine (CNR-ISMAR), Via Piero Gobetti, 101, 40129 Bologna, Italy

Particulate Optical Properties In The Mediterranean And Black Seas Through CALIPSO Spaceborne Lidar Measurements

Dionisi, Davide (1); Brando, Vittorio (1); Bracaglia, Marco (1,2); Volpe, Gianluca (1); Colella, Simone (1); Santoleri, Rosalia (1), 1: Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - 00185 Rome, Italy; 2: Universita degli Studi di Napoli Parthenope, Via Amm. F. Acton 38, 80133, Naples, Italy

Thematic Exploitation Platforms: Web and Cloud Technologies in Support of Coastal Environment

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Drimaco, Daniela (1); Ceriola, G. (1); Clerk, S. (2); Palandri, M. (3); Amodio, A. (1), 1: Planetek Italia s.r.l., Italy; 2: ACRI-ST, France; 3: eGEOS, Italy

Innovative Coastal Eutrophication Index Estimation of the Sustainable Development Goal 14 Exploiting DIAS Platform, CMEMS Products and Geo-analytics Approach

Drimaco, Daniela (1); Ceriola, Giulio (1); Sarelli, Anastasia (2), 1: Planetek Italia s.r.l., Italy; 2: Planetek Hellas, Greece

Mediterranean-wide seagrass mapping using Sentinel-2 on Google Earth Engine

Traganos, Dimosthenis (1); Poursanidis, Dimitris (2); Aggarwal, Bharat (3); Chrysoulakis, Nektarios (2); Reinartz, Peter (1), 1: DLR - German Aerospace Centre, Germany; 2: Foundation for Research and Technology—Hellas (FORTH), Institute of Applied and Computational Mathematics; 3: Chair of Space Technology, Technische Universität Berlin

Remote Sensing analysis of Riverine Sediment Plumes: from Spectral Signature to Coastal Morphodynamic diagnosis

Falcini, Federico (1); Pitarch, Jaime (2); Benincasa, Mario (1); Brando, Vittorio (1); Nardin, William (3); Di Cicco, Annalisa (1); Vona, Iacopo (1); Marullo, Salvatore (4); Santoleri, Rosalia (1), 1: CNR, Italy; 2: NIOZ, Netherlands; 3: University of Maryland, USA; 4: ENEA, Italy

New insights on Ecosystemic Connectivity from a Synergic Lagrangian and Remote Sensing analysis for a Sustainable Management of Fisheries

Falcini, Federico (1); Corrado, Raffaele (1); Torri, Marco (2); Lacorata, Guglielmo (1); Palatella, Luigi (1); Cuttitta, Angela (2); Patti, Bernardo (2); Santoleri, Rosalia (1), 1: CNR-ISAC, Italy; 2: CNR-IAMC, Italy

EO MAMMALS - a Tool towards the Sustainability of the Whale-watching Activity

Neves, Silvana (1); Atencia, Amaya (2); Scott-Hayward, Lindesay (3), 1: Oceanic Platform of the Canary Islands – PLOCAN, Canary Islands, Spain; 2: GMV, Innovation Solutions, Spain; 3: CREEM, University of Saint Andrews, Scotland, U.K.

Application Of An Artificial Neural Network To Infer The 3D Chlorophyll-a Field From Satellite Data

Sammartino, Michela (1,2); Marullo, Salvatore (1,3); Santoleri, Rosalia (1); Scardi, Michele (2), 1: CNR, National Research Council, Rome, Italy; 2: Department of Biology, University of Rome -Tor Vergata, Rome, Italy; 3: ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Frascati, Italy

Merging Field and High-Resolution Satellite Chlorophyll Data in Mediterranean Coastal Waters: Setbacks and Benefits

Presenting author: Isern-Fontanet, Jordi

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Flo, Eva (1); Soto, Sara (1); Torpy, Liam (2); González-Gambau, Verónica (1); Martínez, Justino (1); Gabarró, Carolina (1); Pérez, Fernando (1); Masdeu, Marta (1); González, Óscar (1); Chic, Óscar (1); Isern-Fontanet, Jordi (1), 1: Marine Science Institute (ICM_CSIC), Spain; 2: University of Chicago, USA

Continuous monitoring of coastal waters with Rheticus® Marine for the Blue Economy

Iasillo, D.; Zotti, M.; Aiello, A.; Ceriola, G., Planetek Italia s.r.l., Italy

The BIOPTIMOD Project: Integration Of Novel Satellite And In Situ Optical Observations In CMEMS Biogeochemical Models

Lazzari, Paolo (1); Cossarini, Gianpiero (1); Salon, Stefano (1); Solidoro, Cosimo (1); D'Ortenzio, Fabrizio (2); Vellucci, Vincenzo (2); Organelli, Emanuele (2), 1: Istituto Nazionale di Oceanografia e di Geofisica sperimentale - OGS, Italy; 2: Laboratoire d'Océanographie de Villefranche (LOV), France

Impact of the Use of OC Products on the Quality of the CMEMS Biogeochemical Forecast Mediterranean System

Presenting author: Cossarini, Gianpiero

Teruzzi, Anna; Cossarini, Gianpiero; Salon, Stefano, Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Italy

Interannual To Multi-Decadal Variability In The Mediterranean Sea During The Satellite Era

Artale, Vincenzo (1); Bellacicco, Marco (2); Buongiorno Nardelli, Bruno (3,5); Di Sarra, Alcide (4); Marullo, Salvatore (1); Pisano, Andrea (3); Santoleri, Rosalia (3), 1: Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile, Italy; 2: Sorbonne Université, CNRS, Laboratoire d'Océanographie de Villefranche, LOV, F-06230 Villefranche-sur Mer, France; 3: Institute of Atmospheric Sciences and Climate (ISAC) of the Italian National Research Council (CNR), Roma, Italy; 4: Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile, ENEA, Centro Casaccia, Roma, Italy; 5: Institute for the Coastal Marine Environment (IAMC) of the Italian National Research Council (CNR), Napoli, Italy,

The Mediterranean Analysis And Forecasting Physical System For The Copernicus Marine Service: Description And Skill Assessment

Clementi, Emanuela (1); Pistoia, Jenny (1); Drudi, Massimiliano (1); Grandi, Alessandro (1); Masina, Simona (1); Ciliberti, Stefania (1); Coppini, Giovanni (1); Delrosso, Damiano (2,3); Mattia, Gelsomina (3); Fratianni, Claudia (3); Pinardi, Nadia (1,2), 1: CMCC: Centro Euro-Mediterraneo sui Cambiamenti Climatici, Italy; 2: Department of Physics and Astronomy, University of Bologna, Italy; 3: INGV: Istituto Nazionale di Geofisica e Vulcanologia, Bologna, Italy

The Lampedusa Site, A Cal/Val Opportunity For The Next Generation Of Satellite Products: Assessing Heat Fluxes And High Frequency Satellite SST Estimates In The Mediterranean

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Region

Marullo, Salvatore (1,2); Di Sarra, Alcide Giorgio (1); Santoleri, Rosalia (2); Ciani, Daniele (2); Artale, Vincenzo (1,2); Bommarito, Carlo (1); Sferlazzo, Damiano (1); Monteleone, Francesco (1); Meloni, Daniela (1); Bergamasco, Alesando (3); Anello, Fabrizio (4); Pace, Giandomenico (2); Piacentino, Salvatore (2), 1: Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile, Italy; 2: CNR — Istituto di Scienze dell'Atmosfera e del Clima, Rome, Italy; 3: CNR - Istituto per l'ambiente marino costiero, Messina, Italy; 4: ENEA – Centro Ricerche Palermo, Italy,

Assessment of SLSTR-3A L2P SST Data As Input to The CMEMS Mediterranean L3S/L4 Multi-Sensor Operational System

Pisano, Andrea; Santoleri, Rosalia; Buongiorno Nardelli, Bruno, CNR (Consiglio Nazionale delle Ricerche), Italy

Closing the Sea Level budget in the Mediterranean Sea from space

Fenoglio, Luciana (1); Sannino, Gian Maria (2); Bonaduce, Antonio (3); Storto, Andrea (4); Staneva, Joanna (3); Zerbini, Susanna (5); Uebbing, Bernd (1); Rietbroek, Roelof (1); Kusche, Jürgen (1), 1: University of Bonn, Institute of Geodesy and Geoinformation, Bonn, Germany; 2: Italian National Agency for New Technologies (ENEA), Rome, Italy; 3: Institute of Coastal Research, Helmholtz-Zentrum Geesthacht, Germany; 4: Euro-Mediterranean Centre for Climate Change, Bologna, Italy; 5: University of Bologna, Department of Physics and Astronomy, Bologna, Italy

Spatial, Temporal and Seasonal Variability in Optical Properties in the Northern Adriatic Sea

Brando, Vittorio (1); Braga, Federica (1); Bresciani, Mariano (1); Bracaglia, Marco (1); Colella, Simone (1); Di Cicco, Anna Lisa (1); Giardino, Claudia (1); Artuso, Florinda (2); Lai, Antonia (2); Pitarch, Jaime (3); Volpe, Gianluca (1); Zaggia, Luca (1), 1: CNR, Italy; 2: ENEA, Italy; 3: NIOZ, The Netherlands

Observing Sea Level Rise in Venice: the Combined Perspective of Satellite Altimetry and In Situ Observations in the ESA CCI project

Vignudelli, Stefano (1); De Biasio, Francesco (2); Scozzari, Andrea (3); Papa, Alvise (4); Zecchetto, Stefano (2), 1: Consiglio Nazionale delle Ricerche (CNR-IBF), Pisa, Italy; 2: Consiglio Nazionale delle Ricerche (CNR-ISAC), Padova, Italy; 3: Consiglio Nazionale delle Ricerche (CNR-ISTI), Pisa, Italy; 4: Centro Previsioni e Segnalazioni Maree - CPSM, Venezia, Italy

Barcelona Expert Center: SMOS SSS products and beyond

Olmedo, Estrella (1,2); Martinez, Justino (1,2); Gonzalez-Gambau, Veronica (1,2); Gabarro, Carolina (1,2); Turiel, Antonio (1,2); Portabella, Marcos (1,2); Isern-Fontanet, Jordi (1,2), 1: Barcelona Expert Center, Spain; 2: Institute of Marine Sciences

Satellite Estimates of Alkalinity in the Mediterranean Basin

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Sabia, Roberto (1); Olmedo, Estrella (2); Cossarini, Giampiero (3); Turiel, Antonio (2); Alvera-Azcárate, Aida (4); Martinez, Justino (2); Fernández-Prieto, Diego (5), 1: Telespazio-Vega UK for ESA, Italy; 2: BEC & Institute of Marine Sciences, CSIC, Barcelona, Spain; 3: OGS - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Trieste, Italy; 4: AGO-GHER, Université de Lige, Lige, Belgium; 5: European Space Agency, Frascati, Italy

Wind Fields from SAR in Coastal Areas of the Mediterranean Sea

Zecchetto, Stefano, National Research Council of Italy, Istituto Scienze Atmosfera e Clima, Italy

Synoptic classification in 21st Century CMIP5 predictions over the Eastern Mediterranean with focus on cyclones

Hochman, Assaf; Harpaz, Tzvi; Saaroni, Hadas; Alpert, Pinhas, Porter School of the Environment and Earth Sciences, Tel Aviv University, Israel

Study Of The Tornadoic Event In The Plain Of Caserta (Campania Region, Italy) On March 12, 2018: Radar-Observations And Numerical Simulations

Capozzi, Vincenzo (1,2); Mazzarella, Vincenzo (2); Maiello, Ida (2); Cotroneo, Yuri (1); Miglietta, Marcello (4); Ferretti, Rossella (2,3); Budillon, Giorgio (1), 1: Department of Science and Technology, University of Naples "Parthenope", Centro Direzionale di Napoli - Isola C4; 2: Center of Excellence Telesensing of Environment and Model Prediction of Severe events (CETEMPS), University of L'Aquila, L'Aquila; 3: Department of Physics and Chemistry, University of L'Aquila, L'Aquila; 4: Institute of Atmospheric Sciences and Climate, National Research Council, Lecce

Validation of ECMWF Winds in the Mediterranean Basin with ASCAT 12.5 km Winds

Zecchetto, Stefano (1); De Biasio, Francesco (1); Accadia, Christophe (2), 1: National Research Council of Italy, Istituto Scienze Atmosfera e Clima, Italy; 2: EUMETSAT, Germany

Earth Observation in Storm Surge Forecasting: the Lesson learnt from the eSurge-Venice Project, and the Transition to Operational Forecasting in Venice (Adriatic Sea)

De Biasio, Francesco (1); Zecchetto, Stefano (1); Papa, Alvise (2), 1: National Research Council, Italy; 2: Venice Municipality, Italy

Wind Observations for high-resolution Atmospheric Modeling

Obermann-Hellhund, Anika; Ahrens, Bodo, Goethe University Frankfurt, Germany

Earth Observation at the IGEO (CSIC-UCM) Geosciences Institute

Garcia Herrera, Ricardo Francisco (1,2); Fernandez Torres, Jose (1,2); Osete, Maria Luisa (1,2); Garcia Baonza, Valentin (1,2), 1: Geosciences Institute (IGEO), Spain; 2: University Complutense, Spain

Research Activities and Operational Applications of Lightning Detection over the

Programme Agenda

Mediterranean Sea: a First Step Toward the use of Meteosat Third Generation (MTG)

Lightning Imager (LI) Observations

Defer, Eric (1); Bech, Joan (2); Caumont, Olivier (3); Enno, Sven-Erik (4); Farges, Thomas (5); Federico, Stefano (6);

Kotroni, Vassiliki (7); Lagouvardos, Kostas (7); Lambert, Dominique (1); Pedeboy, Stéphane (8), 1: Laboratoire

d'Aérodologie, France; 2: University of Barcelona, Spain; 3: CNRM, France; 4: Met Office, United Kingdom; 5: CEA, France;

6: ISAC, Italy; 7: NOA, Greece; 8: Météorage, France

The Lampedusa Atmospheric Observatory for climate studies in the Mediterranean

di Sarra, Alcide Giorgio; Anello, Fabrizio; Bommarito, Carlo; Di Iorio, Tatiana; Meloni, Daniela; Monteleone, Francesco;

Pace, Giandomenico; Piacentino, Salvatore; Sferlazzo, Damiano, ENEA, Laboratory for Observations and Analyses of

Earth and Climate, Italy

PCOA: Platform CORSiCA for Observation of the Atmosphere

Presenting author: Defer, Eric

Lambert, Dominique; Defer, Eric; Coquillat, Sylvain; De Guibert, Pierre; Pinty, Jean-Pierre; Pont, Véronique; Prieur,

Serge; Richard, Evelyne, Laboratoire d'Aérodologie, Université de Toulouse, CNRS, UPS, France

The potential of an Atmospheric Remote Sensing Supersite in the EMMENA region: An opportunity through the ERATOSTHENES CoE

Presenting author: Themistocleous, Kyriacos

Hadjimitsis, Diofantos (1); Ansmann, Albert (2); Kontoes, Haris (3); Schreier, Gunter (4); Komodromos, George (5); Bühl,

Johannes (2); Mamouri, Rodanthe-Elisavet (1); Michaelides, Silas (1); Nisantzi, Argyro (1); Seifert, Patric (2);

Themistocleous, Kyriacos (1); Wandinger, Ulla (2), 1: Cyprus University of Technology, ERATOSTHENES Research Centre,

Faculty of Engineering and Technology, Cyprus; 2: Leibniz Institut für Troposphärenforschung (TROPOS),

Leipzig, Germany; 3: National Observatory of Athens (NOA), Greece; 4: Deutsches Zentrum für Luft- und Raumfahrt e.V.

(DLR), Berlin, Germany; 5: Department of Electronic Communications of the Ministry of Transport, Communications

and Works, Nicosia Cyprus

Time Evolution of Particulate Matter, Heatmaps and Windroses during the Kinetta Fire Event on July 23th 2018.

Geronikolou, Styliani (1); De Lastic, Hector-Xavier (2); Papayannis, Alex (2); Georgakilas, Alex (2), 1: BRFAA, Greece; 2:

NTUA, Greece

Desert Dust Observations: EO Needs For Assimilation/Validation Purposes Within a High-Resolution Dust Regional Reanalysis

Programme Agenda

Mona, Lucia (1); Di Tomaso, Enza (2); Formenti, Paola (3); Terridellas, Enric (4); Votsis, Athanasios (5); Basart, Sara (2), 1: CNR, Italy; 2: BSC, Spain; 3: CNRS, France; 4: AEMET, Spain; 5: FMI, Finland

Towards high resolution monitoring of atmospheric pollutants: Implications for the Eastern Mediterranean and the Middle East (EMME)

Kushta, Jonilda; Lelieveld, Jos, The Cyprus Institute, Greece

Day 2 - 12/12/2018

Room: Big Hall

Sea 2

Chairs: Mangin, Antoine (ACRI), Zecchetto, Stefano (National Research Council of Italy)

09:00 - 11:00

09:00 Modelling the Storm Surge in the Adriatic Sea Using Satellite Data

Zecchetto, Stefano, National Research Council of Italy, Istituto Scienze Atmosfera e Clima, Italy

09:20 The Deployment of a Multi-source Observing System for Marine Litters at the Mediterranean Basin Scale

Mangin, Antoine; Martin-Lauzer, F.R.; Galland, F.; Taji, A.; Fanton d'Andon, O., ACRI, France

09:40 A New Synergetic Approach for the Determination of the Sea-Surface Currents in the Mediterranean Sea

Ciani, Daniele (1); Rio, Marie-Hélène (2); Santoleri, Rosalia (1); Marullo, Salvatore (3), 1: Consiglio Nazionale delle Ricerche (CNR-ISAC), Rome, Italy; 2: European Space Agency, ESA-ESRIN, Frascati, Italy; 3: Agenzia Nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile (ENEA), Frascati, Italy

10:00 High-Resolution Surface Currents From Satellite Observations in the North-Western Mediterranean Sea: Eddies Along The Iberian Coast

Isern-Fontanet, Jordi (1,2); Ballabrera, Joaquim (1); Garcia-Ladona, Emilio (1); Olmedo, Estrella (1,2); Turiel, Antonio (1,2), 1: Institut de Ciències del Mar (CSIC), Spain; 2: Barcelona Expert Centre in Remote Sensing

10:20 The Hydrological Cycle in the Mediterranean Experiment (HyMeX): Where do We Stand? Where do We Go?

Drobinski, Philippe (1); Ducrocq, Veronique (2), 1: Institut Pierre Simon Laplace, France; 2: Meteo France

10:40 Round Table Sea

Programme Agenda

Chairs, Sea, .

Coffee break & TEPs demo

11:00 - 11:30

Atmosphere 1

Chairs: Zerefos, Christos (Academy of Athens), Mona, Lucia (CNR), Panegrossi, Giulia (Institute of Atmospheric Sciences and Climate (ISAC))

11:30 - 12:50

11:30 The Mediterranean as a Hotspot for Manmade Significant Interventions to the Environment

Zerefos, Christos, Academy of Athens, Greece

11:50 EO for the Mediterranean Sensitive Region: ACTRIS Lessons Learnt

Mona, Lucia (1); Benedetti, Angela (2); Bukowiecki, Nicolas (3); Goloub, Philippe (4); Jaarvi, Leena (5); Mihalopoulos, Nikos (6); Lund Myrhe, Cathrine (7); Nicolae, Doina (8); o'Connor, Ewan (9); Phillipin, Sabine (10); Wandinger, Ulla (11); Wiedensohler, Alfred (11); Laj, Paolo (12); Pappalardo, Gelsomina (1); Sorvari, Sanna (9), 1: CNR, Italy; 2: ECMWF, United Kingdom; 3: PSI, Switzerland; 4: University of Lille, France; 5: University of Helsinki, Finland; 6: University of Crete, Greece; 7: NILU, Norway; 8: INOE, Romania; 9: FMI, Finland; 10: Université Clermont Auvergne, France; 11: TROPOS, Germany; 12: Université Grenoble Alpes, France

12:10 Ingestion Of Sentinel Derived Remote Sensing Products In Numericalweather Prediction Model: Results Of The Esa Steam Project

Lagasio, Martina (1); Parodi, Antonio (1); Pulvirenti, Luca (1); Pierdicca, Nazzareno (2); Marzano, Frank S. (2); Riva, Carlo (3); Luini, Lorenzo (3); Venuti, Giovanna (4); Pilosu, Luca (5); Realini, Eugenio (6); Passera, Emanuele (7), 1: CIMA Research Foundation, Savona, Italy; 2: Department of Information Engineering, Electronics, and Telecommunications, Sapienza University of Rome, Rome, Italy; 3: Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano, Milan, Italy; 4: Department of Civil and Environmental Engineering, Politecnico di Milano, Milan, Italy; 5: Istituto Superiore Mario Boella, Turin, Italy; 6: Geomatics Research & Development srl, Lomazzo, Italy; 7: TRE ALTAMIRA, Milan, Italy

12:30 MEDiterranean Services Chain based On climate PrEdictions (MEDSCOPE)

Gualdi, Silvio (1); Caron, Louis-Philippe (2); Batté, Lauriane (3); Bertuzzi, Patrick (4); Corti, Susanna (5); Lafitte, Antoine (6); Rodriguez-Camino, Ernesto (7); Vannitsem, Stephan (8), 1: Fondazione Centro Euro-Mediterraneo sui Cambiamenti

Programme Agenda

Climatici, Italy; 2: Barcelona Supercomputing Centre, Spain; 3: Meteo France, France; 4: Institut National de la Recherche Agronomique, France; 5: Istituto di Scienze dell'Atmosfera e del Clima - CNR, Italy; 6: P.Lan Bleu, France; 7: Agencia Estatal de Meteorología - AEMET, Spain; 8: Royal Meteorological Institute - RMI, Belgium

Lunch Break

12:50 - 13:50

Atmosphere 2

Chairs: Zerefos, Christos (Academy of Athens), Mona, Lucia (CNR), Panegrossi, Giulia (Institute of Atmospheric Sciences and Climate (ISAC))

13:50 - 14:50

13:50 Satellite Microwave Observations of Heavy Precipitation Systems in the Mediterranean: lessons from GPM and future perspectives

Panegrossi, Giulia (1); Marra, Anna Cinzia (1); San, Paolo (1); D'Adderio, Leo Pio (1); Dietrich, Stefano (1); Baldini, Luca (1); Casella, Daniele (2), 1: Institute of Atmospheric Sciences and Climate (ISAC), National Research Council of Italy (CNR), Rome, Italy; 2: SERCO S.p.A., Frascati, Italy

14:10 Urban Expansion & Air-pollution from Space with Focus over the MED

Alpert, Pinhas, Tel Aviv University

14:30 Round Table Atmosphere

Chairs, Atmos, .

Coffee break & TEPs demo

14:50 - 15:00

Requirements and Activities in Cyprus, Montenegro and Morocco

15:00 - 16:00

15:00 Social, Environmental and Cultural Challenges in Montenegro

Petrusic, Darko, Ministry of Science, Montenegro

15:20 Remote Sensing Information Systems in Support of Resources and environmental

Programme Agenda

Mangement in Morocco

El Hadani, Driss, Royal Center for Remote Sensing (CRTS), Morocco

15:40 **Cyprus as a Regional Hub in the Field of Earth Observation**

Themistocleous, Kyriacos, Cyprus University of Technology, ERATOSTHENES Research Centre, Faculty of Engineering and Technology, Cyprus

Conclusion session

16:00 - 16:30