



# OCEANS FROM SPACE V

Scuola Grande di San Marco, Venezia  
24 - 28 October 2022

**FINAL PROGRAM**



# WELCOME

## Scuola Grande San Marco, Venice

Established in 1261 as a confraternity of penitents, the Scuola Grande di San Marco over the centuries became a philanthropic institution that combined acts of devotion with healthcare and assistance for its needy members. The headquarters of the Scuola, completed between the late 15<sup>th</sup> and mid-16<sup>th</sup> century, is a celebrated example of early Renaissance Venetian architecture. Until the Napoleonic period, when lay confraternities were suppressed and the Scuola became a civil hospital, its rooms housed three cycles of paintings dedicated to St Mark, the patron saint of Venice: one executed by the Bellini family and other leading practitioners of early 16th-century Venetian painting, and the other two completed by Jacopo Tintoretto and his son Domenico.



## Monday, 24 October 2022 | AM

### 09:00 - 10:30 | (1A) REGISTRATION

Salone dei Conversi

### 10:30 - 11:00 | Coffee & Tea

Salone dei Conversi

### 11:00 - 12:30 | (1B) WELCOME TO "OCEANS FROM SPACE" V

Salone degli Angeli

**Co-Chairs: V. Barale, J. Gower, L. Alberotanza**

**V. Barale**

*"Opening Addresses, Symposium outline"*

10 min

**J.F.R. Gower**

*"The Oceans from Space Symposia: an historical outlook"*

10 min

**L. Alberotanza**

*"Welcome to Venice: events of the week"*

10 min

#### **Sponsors' addresses:**

**C. Donlon\***

*"Oceans from Space: Achievements of the **European Space Agency** over the last decade and plans for the next decade"*

20 min

**R. Santoleri\***

*"Satellite oceanography at the **Istituto di Scienze Marine** of the Italian **CNR**: historical background and current programmes"*

20 min

**L. Lorenzoni\***

*"Looking at the past to pave the future: **NASA's OBB** perspective on priorities for aquatic ecosystems and bio-geo-chemistry"*

20 min

### 12:30 - 14:30 | (1C) "OCEANS FROM SPACE" V POSTER SESSION

Salone dei Conversi

### Buffet Lunch

Salone dei Conversi



## Monday, 24 October 2022 | PM

### 14:30 - 16:00 | (1D) MISSIONS, SATELLITES, SENSORS 1 (THEME 1)

Salone degli Angeli

**Co-Chairs: L Lorenzoni & C Donlon**

**(a) Visible Spectrum Cluster (presentations followed by discussion):**

**V.E. Brando\***, R. Santoleri, S. Colella, G. Volpe, J. A. Concha, A. Di Cicco, M. Sammartino, L. Gozalez-Vilas, M. Bracaglia, M. Benincasa, E. Böhm, C. Cesarini, V. Forneris, F. La Padula, P. Garnesson, A. Mangin, O. Hembise Fanton d'Andon, M. Bretagnon, S. Pardo, T. Jackson, B. Calton, J. Netting, B. Howe, H. Krasemann, M. Hieronymi, D. D'Alimonte, T. Kajiyama, J. Attila, S. Kaitala, S. Koponen, D. Van der Zande, J.F. Cardoso Dos Santos, Q. Vanhellefont, K. Stelzer, M. Böttcher, C. Lebreton, S. Sterxck  
"Operational Ocean Colour global and regional products for Essential Ocean Variables within the Copernicus Marine Service"

15 min

A. Bracher, J. Oelker, **L. Alvarado\***, S. Losa, H. Xi, M. Soppa, A. Brito, V. Brotas, M. Costa, L. Favareto, M. Gomes, V.P. Suseelan, A. Richter  
"TROPOMI's high spectrally resolved satellite data to fill gaps in ocean color observations"

15 min

**P. Di Girolamo\***, D. Dionisi, A. Cosentino, F. Longo, N. Franco, D. Summa, S. Lolli, E. Suetta, A. Perna, S. Zoffoli  
"Cloud Aerosol Lidar for Global Scale Observations of the Ocean-Land-Atmosphere System – CALIGOLA"

15 min

**(b) "From airborne to far orbit" Cluster (presentations followed by discussion):**

**A. El-Habashi\***, J. Bowles, R. Foster, D. Gray

"Sensitivity of polarized airborne observations over coastal waters"

15 min

**R. Frouin\***, J. Tan, J. R. Herman

"Ocean Color Remote Sensing from the L1 Orbit"

15 min

**First Co-Chairs & Presenters Guided Discussion (with Q&A)**

15 min

### 16:00 - 16:30 | Coffee & Tea

Salone dei Conversi

### 16:30 - 18:00 | (1E) MISSIONS, SATELLITES, SENSORS 2

Salone degli Angeli

**Co-Chairs: C Donlon & L Lorenzoni**

**(c) Altimetry Cluster (presentations followed by discussion):**

**M. Srinivasan\***, V. Tsontos

"Satellite Altimetry for Ocean and Coastal Applications"

15 min

**P.D. Cotton\***, M. Roca, A. Garcia-Mondejar, C. Gommenginger, O. B. Andersen, L. Fenoglio-Marc, M.J. Fernandes, C. Lazaro, M. Naeije, T. Moreau, S. Dinardo, C. Martin Puig, K. Raney, M. Cancet, A. Egido, M. Restano, J. Benveniste

"Improving SAR Altimetry Processing Over the Coastal Zone - From SAMOSA to HYDROCOASTAL"

15 min

**D. Ciani\***, M-H. Rio, B. Buongiorno Nardelli, S. Guinehut, E. Charles, H. Etienne, R. Santoleri

"Ocean circulation from the synergy of altimeter-derived and oceanic tracers observations"

15 min

**(d) Air-Sea Interactions Cluster (presentations followed by discussion):**

C. Tourain, **D. Hauser\***, L. Aouf

"CFOSAT: a breakthrough to observe and predict ocean surface wind and waves"

15 min

**F. Ardhuin\***, S. Gille, T. Lee

"ODYSEA: a first global Doppler scatterometer to explore currents, winds, and air-sea interactions"

15 min

**Second Co-Chairs & Presenters Guided Discussion (with Q&A)**

15 min

### 18:30 - 20:30 | Welcome Reception

Salone dei Conversi



## Tuesday, 25 October 2022 | AM

### 09:00 - 10:30 | (2A) SEA SURFACE SALINITY 1 (THEME 1)

Salone degli Angeli

**Co-Chairs: S Yueh & J Boutin**

**Keynote Address:**

T. Lee, **J. Boutin\***, N. Reul, N. Vinogradova-Shiffer  
*"A Decade of Advance in Salinity Remote Sensing"*

20 min

**Round Table Presentations:**

D. Ciani, **R. Santoleri\***, G.L. Liberti, C. Donlon, C. Prigent, A. Pisano, A. Storto, C. Yang, B. Buongiorno Nardelli  
*"The Copernicus Imaging Microwave Radiometer (CIMR) mission: Benefits for the present-day Copernicus Marine Service L4 SSS products"*

15 min

**J. Boutin\***, N. Reul, A. Martin, J. Jouanno, R. Catany, F. Rouffi, R. Sabia and the CCI+SSS consortium  
*"The Climate Change Initiative (CCI) Sea Surface Salinity: Achievements and future perspectives"*

15 min

**A. Akins\***, S. Brown, T. Lee, S. Misra, A. Fore, W. Tang  
*"Challenges and Opportunities for Future Sea Surface Salinity Remote Sensing from Space"*

15 min

**Round Table Debate (with Q&A): SSS advances and perspectives**

25 min

### 10:30 - 11:00 | Coffee & Tea

Salone dei Conversi

### 11:00 - 12:30 | (2B) SEA SURFACE SALINITY 2 (THEME 1)

Salone degli Angeli

**Co-Chairs: J Boutin & S Yueh**

**SSS applications Cluster (presentations followed by discussion)**

J. Vazquez-Cuervo, **W. Tang\***, M. García-Reyes, J. Gómez-Valdés  
*"Validation and Application of Satellite Derived SSS and SST Gradients in Coastal Regions: Use of the Sairdrone Uncrewed Vehicle"*

15 min

**J. Boutin\***, G. Alory, V. Echevin, N. Kolodziejczyk, L. Olivier, E. Remy, N. Reul, G. Reverdin, A. Supply, C. Thouvenin-Masson, J. Vialard, F. Vivier, J.-L. Vergely, Y. H. Kerr, N. Rodriguez-Fernandez  
*"Large mesoscale salinity features detected by SMOS and perspectives for next generation mission"*

15 min

M. Liu, **B.J. Soden\***, G.A. Vecchi, C. Wang  
*The spread of ocean heat uptake efficiency traced to ocean salinity*

15 min

**P. Hudson\***, A. Martin, A. Angeloudis, S. Josey, A. Marzocchi  
*"Key drivers of interannual variability in the Laptev Sea from satellite based sea surface salinity"*

15 min

W. Tang, **S. Yueh\***, A. Fore, A. Hayashi, M. Steele, A. Akins  
*"Update of JPL's SMAP Sea Surface Salinity Product - Retrieval with Sea Ice Correction and Validation with in situ Measurements in the Arctic Ocean"*

15 min

**Co-Chairs & Presenters Guided Discussion (with Q&A) on SSS applications**

30 min

### 12:30 - 14:30 | (2C) "OCEANS FROM SPACE" V POSTER SESSION

Salone dei Conversi

**Buffet Lunch**

Salone dei Conversi

**Tuesday, 25 October 2022 | PM****14:30 - 16:00 | (2D) MODELS, CAL-VAL, ASSIMILATION 1 (THEME 2)**

Salone degli Angeli

**Co-Chairs: A Gilerson & G Zibordi****Keynote Address:****G. Zibordi\****"Why Cal/Val and what's next? An insider view on requirement for ocean color science"*

20 min

**Round Table Presentations:****(a) OCEAN COLOR CLUSTER:****A. Gilerson\***, E. Herrera-Estrella, J. Agagliate, S. Ahmed, R. Foster, J.I. Gossn, D. Dessailly, E. Kwiatkowska*"Uncertainties in retrieval of remote sensing reflectance from OLCI satellite sensors"*

15 min

**I. Cazzaniga\***, G. Zibordi*"On the AERONET-OC LWN uncertainties: a re-evaluation"*

15 min

**(b) HYPERSPECTRAL CLUSTER:****K. Ruddick\***, M. Beck, A. Bialek, V. Brando, A. Cattrijsse, J. Concha, A. Corizzi, P. de Vis, A. Dogliotti, D. Doxaran, A. Gammaru, C. Giardino, L.G. Vilas, C. Goyens, S. Hunt, J. Kuusk, K. Laizans, E. Leymarie, F. Ortenzio, E. Piegari, P. Perna, L. Rubinstein, Q. Vanhellemont, D. Vansteenwegen*"WATERHYPERNET: Automated in situ measurements of hyperspectral water reflectance for satellite validation ... and more"*

15 min

**A.I. Dogliotti\***, E. Piégari, P. Perna, L. Rubinstein*"Automated hyperspectral validation site in the Río de la Plata (Argentina): First match-up results"*

15 min

**Round Table Preliminary Q&A on Ocean Color & Hyperspectral Clusters**

10 min

**16:00 - 16:30 | Coffee & Tea**

Salone dei Conversi

**16:30 - 18:00 | (2E) MODELS, CAL-VAL, ASSIMILATION 2 (THEME 2)**

Salone degli Angeli

**Co-Chairs: M Gade & L Aouf****Round Table presentations continue:****(c) WIND & WAVES CLUSTER:****R. Crapolicchio\***, N. Reul, J.J.F. Piolle, C. Prevost, D. Briand, E. Bodéré, J. Tenerelli*"SMOS sea surface high wind speed validation and data performances assessment"*

15 min

**L. Aouf\***, D. Hauser, F. Collard, B. Chapron, C. Tourain*"Waves attenuation in the Marginal Ice Zone : Thanks to directional wave satellite observations"*

15 min

**(d) ASSIMILATION & MODELS CLUSTER:****A. Storto\***, G. Liberti, D. Ciani, A. Pisano, C. Yang, A. Lewinschal, R. Santoleri*"Towards the coupled assimilation of satellite radiances: Assimilating CIMR brightness temperature in an atmosphere-ocean coupled variational analysis system"*

15 min

**D.T. Sandwell\***, J.A. Goff, J. Gevorgian, H. Harper, S.S. Kim, Y. Yu, B. Tozer, P. Wessel, W.H.F. Smith*"Global Seafloor Mapping from Ships, Satellites, and Geological Information for High Resolution Ocean Models: SYN BATH"*

15 min

**Round Table Debate (with Q&A) on Models, Cal-Val, Assimilation**

30 min

**18:30 - 20:30 | Guided visit to: Scuola Grande di San Marco Museum**





## Wednesday, 26 October 2022 | AM

### 09:00 - 10:30 | (3A) BIO-GEO-CHEMICAL ISSUES, POLLUTION AGENTS & PROCESSES (THEME 5)

Salone degli Angeli

**Co-Chairs: V Brando & E Boss**

**Keynote Address:**

**E.A. Lee, S.Y. Kim\***

*"Turbulent characteristics of the satellite-sensed submesoscale surface chlorophyll concentrations"* 20 min

**Blooms, CDOM, Fronts Cluster (presentations with discussion):**

**E. Ciancia\***, T. Lacava, N. Pergola, V. Vellucci, D. Antoine, V. Satriano, V. Tramutoli  
*"Assessment of phytoplankton bloom variability in NW Med Sea by the Robust Satellite Techniques (RST)"* 15 min

**C. Dupouy\***, A. Whiteside, A. Singh, J. Lefèvre, G. Wattelez, H. Murakami, R. Frouin  
*"The Use of Ocean Colour in New Caledonia, Vanuatu, Fiji, and Tonga Archipelagos: From large Trichodesmium oceanic blooms to chlorophyll in shallow coral lagoons"* 15 min

**D. Dionisi\***, S. Bucci, C. Cesarini, S. Colella, D. D'Alimonte, L. Di Ciolo, P. Di Girolamo, M. Di Paolantonio, N. Franco, G. Gostinicchi, T. Kajiyama, G. L. Liberti, E. Organelli, R. Santoleri  
*"COLOR: CDOM-proxy retrieval from aeOLus ObseRvations"* 15 min

**P.I. Miller\***, V. Martinez-Vicente, J. Clark, M. Al Azhar, A. Kurekin, L. Biermann, F. Gibert  
*"Ocean fronts observed using multiscale satellite and model data provide a proxy for marine litter aggregation"* 15 min

**Co-Chairs & Presenters Guided Discussion** 10 min

### 10:30 - 11:00 | Coffee & Tea

Salone dei Conversi

### 11:00 - 12:30 | (3B) SOCIETY, POLICY, ECONOMICS (THEME 6)

Salone degli Angeli

**Co-Chairs: P. Bontempi & V Brando**

**Keynote Addresses:**

**E.J. Bayler\***

*"Satellite Oceanography: NOAA's Center for Satellite Applications and Research (STAR)"* 15 min

**V. Brando\***, B. Loveday, C. Träger-Chatterjee, H. Evers-King, S. Wannop, V. Rosmorduc, A. Ruescas, A. Alvera-Azcárate  
*"Expanding the use of Copernicus marine satellite data: EUMETSAT's user support and training activities"* 15 min

**"Around the Baltic Sea" Round Table Presentations:**

**S. Kratzer\***, K. Alikas, J. Attila, T. Harvey, S. Koponen, T. Kutser  
*"Baltic Sea from Space - from Ocean Colour science to management applications"* 15 min

**M. Wichorowski\***, M. Ostrowska, J. Stoń-Egiert, U. Pączek, L. Szymanek, M. Wójcik, W. Paciura  
*"Oceanographic data and information system for Polish NODC"* 15 min

**Round Table Discussion (with Q&A): are current programs, integrated services, data systems impacting Society, Policy, Economics?** 30 min

### 12:30 - 14:00 | (3C) OCEANS FROM SPACE" V POSTER SESSION

Salone dei Conversi

**Buffet Lunch**

Salone dei Conversi



## OCEANS FROM SPACE

Scuola Grande di San Marco, Venezia  
24 - 28 October 2022

SYMPOSIUM SECRETARIAT

Cell: +39 063269017  
Email: [info@oceansfromspacevenice2020.org](mailto:info@oceansfromspacevenice2020.org)

# Wednesday, 26 October 2022 | PM

### **14:00 - 18:00 | MOSE Excursion**

*departure from Scuola Grande di San Marco*

### **19:30 - 22:30 | Social Dinner**

*Circolo Ufficiali Marina Militare, Sestiere Castello 2168, Venezia*





## Thursday, 27 October 2022 | AM

### 09:00 - 10:30 | (4A) REGIONAL & PLANETARY ISSUES (THEME 3)

Salone degli Angeli

**Co-Chairs: E Boss & P Bontempi**

**Keynote Address:**

**P. Bontempi\***

*"The value of regional and planetary ocean information for Earth's blue economy"*

20 min

**Regional assessments (presentations followed by discussion):**

**A. Supply\***, J. Boutin, N. Kolodziejczyk, G. Reverdin, C. Lique, J.L. Vergely, X. Perrot

*"Observation of Arctic Ocean meltwater lenses from space and synergy with in-situ measurements"*

15 min

**M. Saraceno\***, N. Bodnariuk, L.A. Ruiz-Etcheverry, J. Olascoaga, F.J. Beron-Vera, C.G. Simionato

*"Lagrangian tracking of meso and sub-mesoscale features in the Southwestern Atlantic"*

15 min

**C. Marchese\***, B. Hunt, F. Giannini, M. Ehrler, M. Costa

*"Bioregionalization of the coastal oceans of British Columbia and Southeast Alaska based on Sentinel-3A retrievals of phytoplankton biomass patterns"*

15 min

**I. Karagali\***, J.L. Hoeyer, M.B. Suhr, W.M. Kolbe

*"A satellite-based product for SST Diurnal Variability in the North and Baltic Seas"*

15 min

**Panel discussion (with Q&A) on Regional Scale (extreme) Events and Climate Patterns**

**10 min**

### 10:30 - 11:00 | Coffee & Tea

Salone dei Conversi

### 11:00 - 12:30 | (4B) SURFACE PROCESSES, COASTAL ISSUES, EXTREME EVENTS 1 (THEME 4)

Salone degli Angeli

**Co-Chairs: L Cavaleri & R Romeiser**

**Surface wind Cluster (presentations followed by discussion):**

**M. Passaro\***, M.A. Hemer, G.D. Quartly, C. Schwatke, D. Dettmering, F. Seitz

*"Global coastal attenuation of wind-waves observed with radar altimetry"*

15 min

**G. Grieco\***, A. Stoffelen, J. Vogelzang, A. Verhoef, M. Portabella

*"Towards SeaWinds-derived coastal winds improvement"*

15 min

**M. Portabella\***, A.S. Rabaneda, G. Grieco, F. Polverari, A. Stoffelen, J. Sapp, Z. Jelenak, P. Chang, F. Cossu

*"On the improvement of satellite-derived extreme sea surface wind capabilities"*

15 min

**L. Cavaleri\***, A. Benetazzo, L. Bertotti, S. Langodan, I. Hoteit

*"When scatterometers and altimeters provide the wrong wind data on the oceans"*

15 min

**Co-Chairs & Presenters Guided Discussion: atmospheric forcing**

**30 min**

### 12:30 - 14:30 | (4C) "OCEANS FROM SPACE" V POSTER SESSION

Salone dei Conversi

**Buffet Lunch**

Salone dei Conversi



## Thursday, 27 October 2022 | PM

### 14:30 - 16:00 | (4D) SURFACE PROCESSES, COASTAL ISSUES, EXTREME EVENTS 2 (THEME 4)

Salone degli Angeli

**Co-Chairs: C Gommenginger & A Moiseev**

**Surface Currents Cluster (presentations followed by discussion):**

**R. Romeiser\***

*"Direct Ocean Surface Current Measurements From Space: Achievements of the Last 20 Years and Expectations for the Next 20 Years"*

15 min

**A. Martin\***, D. McCann, K. Macedo, A. Meta, C. Gommenginger, M. Portabella, L. Marié, J. Horstmann, J.F. Filipot, J. Marquez, P. Martín-Iglesias, T. Casal

*"Ocean Surface Current Airborne Radar (OSCAR): a new instrument to measure ocean surface dynamics at the sub-mesoscale"*

15 min

**A. Moiseev\***, F. Collard, J.A. Johannessen, B. Chapron

*"Total ocean surface current radial velocity monitoring from the Sentinel-1 SAR Doppler shift observations"*

15 min

D. Ciani, C. Fanelli, **B. Buongiorno Nardelli\***

*"Joint reconstruction of ocean surface temperature and currents through deep learning algorithms"*

15 min

**Co-Chairs & Presenters Guided Discussion: ocean surface dynamics**

**30 min**

### 16:00 - 16:30 | Coffee & Tea

Salone dei Conversi

### 16:30 - 18:00 | (4E) SURFACE PROCESSES, COASTAL ISSUES, EXTREME EVENTS 3 (THEME 4)

Salone degli Angeli

**Co-Chairs: R. Romeiser & A Moiseev**

**Oceanic & Near-Coastal Patterns Cluster (presentations followed by discussion):**

**C. Gommenginger\***, A. Martin, A. Egido, K. Hall, P. Martin-Iglesias, T. Casal, SEASTAR Mission Advisory Group and SEASTAR International Science Team

*"Imaging small-scale ocean dynamics at interfaces of the Earth System with the SEASTAR Earth Explorer 11 mission candidate"*

15 min

E. Le Merle, **D. Hauser\***, R. Santoleri, C. Yang

*"Directional ocean wave spectrum properties from the SWIM instrument under tropical cyclone conditions"*

15 min

**R. Aibileah\***

*"Monitoring the complex and dynamic Amazon-influenced muddy coast (from the Amazon to the Orinoco) with the Sentinel 2 satellites"*

15 min

**V. Di Biase\***, R. Hanssen

*"Environmental strain on beach environments retrieved and monitored by space-borne Synthetic Aperture Radar"*

15 min

**Co-Chairs & Presenters Guided Discussion: Earth System interfaces**

**30 min**

### 18:30 - 22:30 | Musical Concert

Chiesa di San Lazzaro, Fondamenta dei Mendicanti, Venezia



## Friday, 28 October 2022 | AM

### 09:00 - 10:30 | (5A) SEA LEVEL (THEME ★1)

Salone degli Angeli

**Co-Chairs: JFR Gower & J Benveniste**

**Keynote Address:**

A. Cazenave (presented by J. Benveniste)

*Contemporary sea level changes from global to local scales*

20 min

**Regional Sea Level Change Cluster (presentations followed by discussion):**

**L. Fenoglio\***

*"Sea level change in estuarine and coastal water level from high resolution altimetry"*

15 min

**F.E. Kemgang Ghomsi\***, R.P. Raj, M. Rouault, I. Halo

*"Sea level variability on interannual, decadal and longer time scales along the Tropical Atlantic"*

15 min

**R.P. Raj\***, O.B. Andersen, S.K. Rose, H. Regan, A. Bonaduce, S. Hendricks, D. Brockley, J. Xie

*"ESA Cryo-TEMPO project: Arctic Sea level variability during the past decade"*

15 min

**F. De Biasio\***, S. Vignudelli

*"Sea Level Change in the Mediterranean Sea from Satellite Altimetry and Tide Gauge Observations"*

15 min

**Co-Chairs & Presenters Guided Discussion (with Q&A) on Sea Level Change**

**10 min**

### 10:30 - 11:00 | Coffee & Tea

Salone dei Conversi

### 11:00 - 12:30 | (5B) SEA LEVEL RISE & COASTAL CITIES (THEME ★1)

Salone degli Angeli

**Round Table Presentations:**

**Co-Chairs: J Benveniste & JFR Gower**

**J.F.R. Gower\***

*"Climate change, sea level rise and the future of Venice"*

15 min

**J. Benveniste\***

*"European Efforts to Assess Sea Level Rise"*

15 min

**A. Meinesz\***, L. Bottin

*"Space technology to quantify the coastline artificialization due to sea level rise in the Mediterranean. An alternative solution : maintaining the current level by damming the Strait of Gibraltar"*

15 min

**Keynote Address:**

**G. Umgiesser\***

*"Venice and Acqua Alta in the perspective of Climate Change"*

20 min

**Round Table Debate (with Q&A) on Sea Level Rise & Coastal Cities**

**25 min**

### 12:30 - 14:30 | (5C) "OCEANS FROM SPACE" V POSTER SESSION

Salone dei Conversi

### Buffet Lunch

Salone dei Conversi



## Friday, 28 October 2022 | PM

### 14:30 - 16:00 | (5D) CLOSING SESSION & CERIMONIES

Salone degli Angeli

**Co-Chairs: V Barale, JFR Gower & L Alberotanza**

**Special Themes (presentations with Q&A):**

*Inland & Coastal Waters*

**C. Giardino\***

*"Imaging spectroscopy for inland and coastal waters: research and applications with PRISMA"*

15 min

*COVID-19 oceans' response (THEME ★ 2)*

**F. Braga\***, G.M. Scarpa, V.E. Brando, G. Manfè, L. Zaggia

*"Impact of the COVID-19 lockdown on water transparency in the Venice Lagoon"*

15 min

*Space science citizen science (THEME ★ 3)*

**F. Alvisi\***, S. Merlino, M. Locritani, M. Paterni

*"The use of Citizen Science for aerial monitoring of marine litter pollution"*

15 min

*UN Decade for Ocean Science (THEME ★ 4)*

**F. Santoro\***

*"The UN Ocean Decade current achievements and future development"*

15 min

**Co-Chairs & Presenters Guided Discussion (with Q&A)**

10 min

**Ceremonies:**

20 min

*"Fero da Prora" Awards*

*"Tom Allan Memorial Challenge"*

*Best Contributions Awards*

*Closure*

### 16:30 - 18:30 | Farewell Reception

Salone dei Conversi



## POSTER SESSION (1C, 2C, 3C, 4C, 5C)

1. M. Ablain, G. Larnicol, **R. Fraudeau\***, F. Marti, V. Rousseau, A. Blazquez, B. Meyssignac, G. Foti, F. Calafat, D. Desbruyeres, W. Llovel, P. Ortega, V. Lapin, M. Rodrigez, R. Killick, N. Rayner, M. Drevillon, K. von Schuckmann, M. Restano, J. Benveniste  
*"Monitoring the local heat content change over the Atlantic Ocean with the space geodetic approach: the 4DATLANTIC-OCH Project"*

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2. G. Arena, **M. Manca Zeichen\***  
*"Tsunami Detection by satellite altimetry in Mediterranean Sea"*

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3. **M. Asim\***, C. Brekke, T. Eltoft, K. Blix  
*"Preliminary analysis of combined Sentinel-2 and Landsat-8 remote sensing reflectance products for improved monitoring of Chlorophyll-a over the Barents sea"*

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4. I. Iglesias, J.L. Pinho, W. Melo, P. Avilez-Valente, A. Bio, M. Cruz, J. Vieira, F. Veloso-Gomes, **M.L.Bastos\***  
*"Eddy kinetic energy as a trigger for the Azores Current intensification at depth: a perspective based on ocean model reanalysis and Satellite Altimetry"*

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5. **A. Bonaduce \***, B. van den Hurk (on behalf of the Knowledge Hub on Sea Level Rise)  
*"Knowledge Hub on Sea Level Rise"*

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6. **A. Bonaduce\***, A. Cipollone, A. Storto, R.P. Raj, J.A. Johannessen  
*"Mesoscale variability in the Southern Ocean: the potential of enhanced altimetry"*

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7. **V. Brando\***, B. Loveday, C. Träger-Chatterjee, H. Evers-King, V. Rosmorduc, A. Ruescas, A. Alvera-Azcárate  
*"Addressing the ten UN Ocean Decade Challenges with EUMETSAT and Copernicus data"*

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8. **M. Cancet\***, O. Andersen, M. Tsamados, G. Moholdt, F. Lyard, T. Johnson, M. Restano, J. Benveniste  
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9. **E. Canuti\***, F. Artuso, A. Di Cicco  
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10. V.K. Cross, **C.K. Cross\***, M. McCoy, T. Moore  
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11. **D. Doxaran\***, A. Corizzi A., E. Leymarie, C. Penkerch, B. Elkilani, I. Salah-Salah  
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12. **M. Ehrhorn\***, O. Baltazar Andersen, C. Bjerre Ludwigsen  
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13. **R. Fischer\***, S. Farrell, J.M. Kuhn, K. Duncan  
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14. **E.T. Harvey\***, A.L. King, K. Sørensen, T. Kristiansen, L. Valestrand, P.F. Jaccard, K. Topland Larsen  
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15. F.N. Amorim, O. Morlet, **M.L. Bastos\***, C. Lázaro  
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- 16. C. Jamet\***, C. Flamant, E. Lecuyer, J. Delanoë, X. Mériaux, Q. Cazenave  
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- 17. V. Karaev\***, M. Panfilova, M. Ryabkova, Yu. Titchenko, X. Li  
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- 18. V. Karaev\***, M. Panfilova, M. Ryabkova, Yu. Titchenko, K. Ponur, L. Mitnik  
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- 19. P. Kowalczyk\***, A. Makarewicz, J. Meler, M. Zabłocka, S. Sagan, M. Konik, M. Darecki, C. A. Stedmon, M. A. Granskog  
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- 20. F. Mangini\***, A. Bonaduce, L. Chafik, R. Raj, L. Bertino  
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- 21. M.M. Martinez\***, L.A. Ruiz-Etcheverry, B. Picard, M. Saraceno, C. Guinet  
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- 22. M. Ostrowska\***, D. Ficek, D. Stoltmann, J. Stoń-Egiert, M. Kowalewski, T. Zapadka, R. Majchrowski, M. Pawlik, M. Wichorowski, J. Dera  
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- 23. N. Pahlevan\***, B. Smith  
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- 24. M. Panfilova\***, V. Karaev  
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- 25. S. Ponce de León\***, J. Benveniste  
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- 26. L.A. Ruiz-Etcheverry\***, M.C. López-Abbate, L.S. Lago, S.I. Romero  
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- 27. J. Schröter\***, R. Rietbroek, A. Androsov, C. Lück, A. Yakhontova, S. Danilov, B. Uebbing, J. Kusche  
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- 28. T. Shulga\***, V. Suslin, D. Shukalo  
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- 29. J. Stoń-Egiert\***, K. Dragańska-Deja, A. Palacz, M. Zabłocka, M. Ostrowska, M. Wichorowski  
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- 30. V.V. Suslin\***, T.Ya. Churilova, T.V. Efimova, N.V. Moiseeva, E.Yu. Skorokhod, T.Ya. Shulga  
*"Regional bio-optical algorithm for remote estimation of the Sea of Azov's IOPs based on MODIS bands"*

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- 31. V.V. Suslin\***, T.Ya. Churilova, T.Ya. Shulga, A.A. Latushkin  
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- 32. A. Theodosiou\***, M. Kleinherenbrink, L. Gaultier, F. Collard, B. Chapron, P. López-Dekker  
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- 33.** A. Tonizzo, **M. Twardowski\***, S. Kolluru, A. Gleason, K. Voss  
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- 34.** **D.L. Volkov\***  
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- 35.** **K. Voss\***, M. Yarbrough, B. C. Johnson, M. Feinholz, A. Gleason, D. Antoine, S. Flora  
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- 36.** **M. Zabłocka\***, P. Kowalczyk, M. Konik, K. Dragańska-Deja, K. Borzycka, A. Zdun  
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