
Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2017

Monday - Tuesday 11 - 12 September 2017

Important Dates

[SHOW](#) | [HIDE](#)**Abstract Due:**

13 March 2017

Late submissions will be considered. Please submit your abstract online as soon as possible.

Author Notification:

26 May 2017

Manuscript Due Date:

14 August 2017

Conference Committee

[SHOW](#) | [HIDE](#)**MONDAY 11 SEPTEMBER**[Show All Abstracts](#)

Opening Remarks

Monday 11 September 2017

8:35 AM - 8:40 AM

Session 1: Oil Spill Sensing, Surveillance and Lasers

Monday 11 September 2017

8:40 AM - 10:30 AM

Real-time surveillance system for marine environment based on HLIF LiDAR *(Invited Paper)*

Paper 10422-1

Author(s):

Vessel and oil spill early detection using COSMO satellite imagery

Paper 10422-2

Author(s):

Radar and optical remote sensing in offshore domain to detect, characterize, and quantify ocean surface oil slicks

Paper 10422-3

Author(s):

Oil spill detection from TerraSAR-X dual-polarized images using artificial neural network

Paper 10422-4

Author(s):

Session 2: Shallow Water Sensing of Coastal Waters, Habitats and Targets

Monday 11 September 2017

11:00 AM - 12:20 PM

Recognition of bathymetry on the basis of color aerial photographs: Baltic shallow coastal zone studies (Conference Presentation) 

Paper 10422-6

Author(s):

Shallow water bathymetry correction using sea bottom classification with multispectral satellite imagery

Paper 10422-8

Author(s):

Collection and corrections of oblique multiangle hyperspectral bidirectional reflectance imagery of the water surface

Paper 10422-9

Author(s):

Using remote sensing methods to identify valuable underwater habitats (Conference Presentation)

Paper 10422-10

Author(s):

Session 3: Water Quality Related Sensing

Monday 11 September 2017

1:50 PM - 3:20 PM

Grain size mapping in shallow rivers using spectral information: a lab spectroradiometry perspective (Invited Paper)

Paper 10422-11

Author(s):

Impact on satellite retrievals of temporal changes in *Karenia brevis* harmful algal blooms in the West Florida Shelf (Conference Presentation)

Paper 10422-13

Author(s):

Trends in phytoplankton phenology in the Mediterranean Sea

Paper 10422-14

Author(s):

Hyperspectral signatures and WorldView-3 imagery of Indian River Lagoon and Banana River Estuarine water and bottom types

Paper 10422-63

Author(s):

Session PL: Remote Sensing and Security + Defence Joint Plenary Session

Monday 11 September 2017

4:00 PM - 4:20 PM

16:00 to 16:15

Welcome Address and Introductory Remarks

16:15 to 17:00

Optoelectronics developments in Poland for defense and security

Col. Krzysztof Kopczynski, Military Univ. of Technology, Poland

17:00 to 17:45

Remote sensing in food security

Molly E. Brown, Univ. of Maryland, United States

17:45 to 18:30

Next decade in infrared detectors

A. Rogalski, Institute of Applied Physics, Military University of Technology, Poland

Remote sensing in food security

Paper 10421-100

Author(s):

TUESDAY 12 SEPTEMBER

[Show All Abstracts](#)

Session 4: Aerosol and Polarization Studies

Tuesday 12 September 2017

9:00 AM - 10:00 AM

Imaging of polarized target in underwater environment

Paper 10422-18

Author(s):



Experimental study of dual polarized radar return from the sea surface

Paper 10422-17

Author(s):

Characterization of aerosol parameters over ocean from the Ocean Color satellite sensors and AERONET-OC data

Paper 10422-19

Author(s):

Session 5: Airborne and Satellite Sensing of Water, SST and Fronts

Tuesday 12 September 2017

10:30 AM - 12:00 PM

Oil spill characterization thanks to optical airborne imagery during the NOFO campaign 2015 (Invited Paper)

Paper 10422-20

Author(s):

Revealing the timing of ocean stratification using remotely sensed ocean fronts

Paper 10422-21

Author(s):

Identifying pancake ice and computing pancake size distribution in aerial photographs

Paper 10422-22

Author(s):

Long-term monitoring of sea ice conditions in the Kerch Strait by remote sensing data

Paper 10422-23

Author(s):

Session 6: Remote Sensing of Vessels, Water Circulation and Tides

Tuesday 12 September 2017

1:30 PM - 3:10 PM

Surface circulation in the Western Mediterranean shown by a synergy of satellite-derived datasets

Paper 10422-25

Author(s):

A parallel efficient partitioning algorithm for the statistical model of dynamic sea clutter at low grazing angle

Paper 10422-26

Author(s):

Evaluation of Sentinel-2A imagery for regional lake water quality assessments by observing colored dissolve organic matter (CDOM) in freshwater lakes in Västerbotten and Jämtland in northern Sweden (Conference Presentation)

Paper 10422-27

Author(s):

Apparent optical properties of the Red Sea from measurements and simulated data (Conference Presentation)

Paper 10422-28

Author(s):

Study on variation in turbidity in Cam Ranh Bay and Thuy Trieu Lagoon, Vietnam

(Canceled)

Paper 10422-29

Author(s):

Session 7: Altimetry, SAR, Microwave and Polarization Sensing

Tuesday 12 September 2017

3:40 PM - 5:00 PM

Ensuring that the Sentinel-3A altimeter provides climate-quality data

Paper 10422-30

Author(s):

Multifrequency radar imagery and characterization of hazardous and noxious substances at sea

Paper 10422-31

Author(s):



Assessing altimetry close to the coast

Paper 10422-33

Author(s):

Coastline detection with time series of SAR images

Paper 10422-34

Author(s):

**Session PS:
Posters--Tuesday**

Tuesday 12 September 2017

5:45 PM - 7:30 PM

Conference attendees are invited to attend the Remote Sensing and Security+Defence poster session held on Tuesday 17:45 to 19:30. Posters will be on display after 13:00 hrs on Monday in the Universal Foyer. Authors of poster papers will be present to answer questions concerning their papers during the Tuesday Poster Session.. Come view the posters, enjoy light refreshments, ask questions, and network with colleagues in your field. Attendees are required to wear their conference registration badges to the poster sessions. Poster authors, view poster presentation guidelines and set-up instructions at <http://spie.org/x32234.xml>.

Assessment of the quality of HY-2A satellite sea surface height data

Paper 10422-32

Author(s):

Ocean subsurface particulate backscatter estimation from CALIPSO spaceborne lidar measurements

Paper 10422-36

Author(s):

Laser induced fluorescence technique for detecting organic matter in East China Sea

Paper 10422-37

Author(s):

Satellite observations of rainfall effect on sea surface salinity in the waters adjacent to Taiwan

Paper 10422-39

Author(s):

The artificial object detection and current velocity measurement using SAR ocean surface images

Paper 10422-42

Author(s):

The re-analysis for satellite retrieved chlorophyll-a in East China Sea

Paper 10422-44

Author(s):

Unusual phytoplankton blooms in the southwestern Bay of Bengal: a comparative study

Paper 10422-45

Author(s):

Multi-sensor satellite survey of natural oil slicks in the southeastern Black Sea

Paper 10422-46

Author(s):

Longtime variation of phytoplankton in the South China Sea from the perspective of carbon fixation

Paper 10422-47

Author(s):

Intersatellite comparisons and evaluations of three ocean color products along the Zhejiang coast, eastern China

Paper 10422-48

Author(s):

Retrieval of total suspended particulate matter in highly turbid Hangzhou Bay waters based on geostationary ocean color imager

Paper 10422-49

Author(s):

Satellite remote sensing of the aquatic pCO₂ in the basin of the South China Sea

Paper 10422-50

Author(s):

Tidal strain of landfast sea ice around Campbell Glacier Tongue in East Antarctica analyzed by DDInSAR images

Paper 10422-53

Author(s):

**Vortex structures in the southeastern part of the Baltic Sea: results of oceanographic experiments and satellite observations**

Paper 10422-55

Author(s):

The influence of tide on sea surface temperature in the marginal sea of northwest Pacific Ocean

Paper 10422-57

Author(s):

Satellite observation of the recent changes of chlorophyll in the South China Sea and Bay of Bengal

Paper 10422-59

Author(s):

Damping of surface waves due to oil emulsions in application to ocean remote sensing

Paper 10422-60

Author(s):

Utilization of multi-channel ocean LiDAR data to classify the types of waveform

Paper 10422-61

Author(s):

