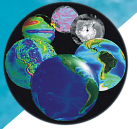




**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA



# 2022 PORSEC

15TH PAN OCEAN REMOTE SENSING  
CONFERENCE JOHOR BAHRU,  
MALAYSIA

## PROGRAM GUIDE

### **TUTORIAL:**

3-6 DECEMBER, 2022 AT  
UNIVERSITI TEKNOLOGI  
MALAYSIA (UTM)

### **CONFERENCE:**

7-8 DECEMBER, 2022 AT  
JOHOR BAHRU AND ONLINE

## MESSAGE FROM CHAIR OF PORSEC 2022 LOC

Dear Colleagues and Friends,

It is a pleasure for me to welcome you to Johor Bahru, Malaysia!

I would like to deliver my warm greetings and heartfelt welcome to all Participants of the 15th Pan Ocean Remote Sensing Conference (PORSEC 2022).

After a long delay in the conference event due to the Pandemic Covid-19 in 2020, the PORSEC 2022 has now commenced, including a four-day Tutorial Capacity Building and a two-day Conference.

The Conference will provide an opportunity to present updated results related to theoretical and applied research in the field of Ocean Remote Sensing. The theme this year is "The Role of Space Ocean Science and Technology Towards Sustainable Development Goal", bringing together scientists from academic institutions and industry and promoting professional interactions between them.

The Organizing Committee would be very excited to express to the Participants deep appreciation for the scientific response which would demonstrate how strong the interest in the field of Ocean Remote Sensing is. It is hoped that all of you will benefit the most during the Conference.

Many thanks go out to the members of the TPC, the Organising Committee, the National Committee, the Local Organising Committee, the PORSEC Steering Committee for their input and support. Particular thanks to our sponsoring partners; the Asia-Pacific Network for Global Change Research, the Scientific Committee on Ocean Research (SCOR), the Committee on Space Research (COSPAR), the Indian National Center for Ocean Information Services (INCOIS), and the Malaysia Convention and Exhibition Bureau for the financial support and the great interest demonstrated in hosting the event.

Only those who have experienced the organisation of such an important event and its related actions will understand how much human effort goes in to the preparation for these six days of intense activity.

Welcome to Johor Bahru and enjoy the Conference!

*Nurul Hazrina Idris*

Chair of PORSEC 2022 LOC



# MESSAGE FROM PRESIDENT OF PORSEC ASSOCIATION

Welcome to the 15th Pan Ocean Remote Sensing Conference (PORSEC). We hope to continue providing an opportunity for the scientists working on various aspects of ocean and atmosphere using remote sensing technology to come together, share and discuss the results and innovations, and provide training for the next generation of scientists.

The conference, with the Theme "Ocean Remote Sensing for Climate Resilience" marks the 30th anniversary since the first PORSEC was held in 1992 and will review and discuss the state-of-the-art ocean remote sensing and showcase the research work carried out using remote sensing techniques from various satellite missions and the applications of ocean remote sensing for societal benefits with an emphasis on Climate Resilience.

The rapid progress in ocean remote sensing in the 1980s provided the stimulus for constituting the Scientific Organizing Committee (SOC) of the Pacific (Pan) Ocean Remote Sensing Conference (PORSEC) during the International Space Year 1990. PORSEC was established as an organization dedicated to helping developing nations stimulate their science programs focused on applications of remote sensing technology to Ocean Sciences. As the landscape of earth observing systems is changing, with many nations moving forward with missions, many with a regional focus, PORSEC continues in its efforts to advance science capabilities and building a bridge to the future by organizing conferences and capacity building courses. While the pandemic delayed the conference by publishing volume 1 of extended abstracts in 2021, striking a new collaboration with COSPAR capacity building, and converting the tutorial that used to be held bi-annually, into a virtual/hybrid mode, delivered annually remotely and in hybrid format.

*Dr. Gad Levy*

President of PORSEC Association





# Organizing Committee

## LOCAL ORGANIZING COMMITTEE

### CHAIR OF PORSEC 2022 LOC

Assoc. Prof Gs Sr Dr. Nurul Hazrina Idris

### CO-CHAIR OF PORSEC 2022 LOC

Assoc. Prof. Ts Gs Dr. Mohd Nadzri Md Reba

### SECRETARY OF PORSEC 2022

Sr Dr. Nurul Hawani Idris  
Mdm. Fatimawati Masari  
Chen Shin Yi

### TREASURER OF PORSEC 2022

Dr. Aimi binti Musa  
Mdm. Salwana binti Md. Salleh  
Fatin Nabillah

### TUTORIAL CAPACITY BUILDING

Dr. Norhakim bin Yusof  
Assoc. Prof Dr. Muhammad Zulkarnain Abdul Rahman  
Puven Raj a/l P.Chazian  
Nuraisya Iman Binti Rahim  
Puvanakumar a/l Gunasegran

### ACCOMMODATION & TRANSPORT/SOCIAL/TECHNICAL/ VISIT FIELDWORK

Mr. Wan Hazli Wan Kadir  
Nadzir Adib Bin Dzulkifli  
Advero Reyes Jekop

### MARKETING/EXHIBITION/SPONSORSHIP/ INDUSTRIAL LINKAGES

Sr Ts Dr. Muhammad Imzan Hassan  
Prof. Sr Dr. Mohd Razali Bin Mahmud  
Nur Fatin Khairiyah Binti Mohd Khirwan Sashithran

### TECHNICAL

Dr. Norhadija Darwin  
Dr. Othman bin Zainon  
Mr. Rahim  
Mr. Ikmal  
Muhammad Irfan Bin Mohd Alzani  
Awang Muhammed  
Nurul Huda Binti Salikin

### IT/WEBSITE/MARKETING MATERIALS

Sr Dr. Ivin Amri bin Musliman  
Wan Nuramirah Binti Wan Rahmat  
Muhammad Haikal Fayyadh Munadi  
Amirkhan Jazzman Bin Yakub

### SPECIAL TASKS

Dr. Muhammad Hafiz Bin Mohd Yatim  
Dr. Suzanna Noor Azmy  
Dr. Norhadija Darwin  
Dr. Nurul Izzati Binti Abd Karim  
Hanis Qystina Binti Mohammad Shukri

### TUTORIAL MEAL, CONFERENCE DINNER BANQUET & PROTOCOLS

Mr. Md Yani Kasiren  
Marsya Binti Nordin

### SCIENTIFIC COMMITTEE & PUBLICATION

Dr. Wan Anom Wan Aris  
Assoc. Prof Dr. Ami Hassan Bin Md Din  
Prof. Ts Gs Dr. Kasturi Devi a/p Kanniah  
Nur Aida Syahmina

## SCIENTIFIC COMMITTEE

### PORSEC PRESIDENT

Dr. Gad Levy

### DEPUTY PRESIDENT/ PRESIDENT ELECT

Dr. Abderrahim Bentamy

### DEPUTY PRESIDENT

Prof. Dr. MingAn Lee

### DEPUTY PRESIDENT ELECT

Dr. Stefano Vignudelli

### EXECUTIVE SECRETARY

Dr. Nimit Kumar

### TREASURER

Dr. Cara Wilson

## Sponsors/Support Funding





## Conference Keynotes

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### Inaugural Sharing Session

by Ryuji Tomisaka

**Ocean Remote Sensing and Early-Career Capacity Building in the Asia-Pacific Region**



Mr. Ryuji Tomisaka  
Secretariat Director, Asia-Pacific Network for Global Change Research

Ensuring equal access to capacity building, ocean science data, and novel technologies is a critical element of conserving and monitoring the ocean we need, for the future we want. At the conclusion of UNFCCC COP27 and the forefront of the UN Decade of Ocean Science for Sustainable Development, we champion the strengthening of science, innovation and international partnerships in the observation of Earth's natural systems.

# Keynote Speaker #1

by Tuan Haji Azlikamil Napiah

**Speech Title: The Implementation of National Space Policy 2030 Agenda**



Azlikamil Napiah  
Director of Malaysian Space Agency (MYSA), Malaysia

Tuan Haji Azlikamil bin Napiah is the Director General of the Malaysian Space Agency (MYSA) since the merger of two distinguished entities in remote sensing technologies in Malaysia, namely; the Malaysian Remote Sensing Agency (ARSM) and the National Space Agency (ANGKASA) back in 2019.

He started his professional career in the private sector as a Senior Geologist in 1993. He joined the government sector as a Research Officer at the Malaysian Remote Sensing Agency (ARSM; formerly known as the Malaysian Remote Sensing Center - MACRES) in August 1994. During his tenure as a Research Officer, he gained formal training through training in Remote Sensing in Australia, the United Kingdom and the Netherlands. He uses his knowledge and experience in spatial data analysis and modelling activities, including satellite image processing, to help Malaysia take advantage of remote sensing technology advances for national development, security, and community well-being.

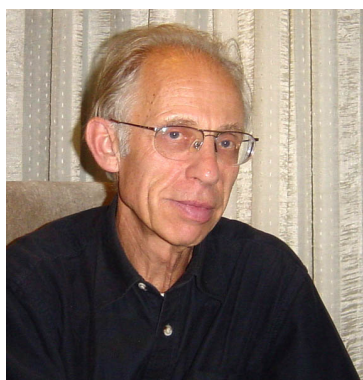
In addition, he is also actively involved in the ASEAN Subcommittee on Space and Technology Application (SCOSA). He has been appointed as one of the Executive Committee of the ASEAN Regional Training Center for Space and Application (ARTSA) based in Thailand. After ten years of contributing services in Research and Development (R&D) at the local and international level, he was promoted to Special Officer in the Director's Office of ARSM in 2004.

He is also an active member of the Institution of Geospatial and Remote Sensing Malaysia (IGRSM). With extensive experience in R&D and technical management, he was appointed to lead the Corporate and Strategic Division at ARSM for four years. His profound dedication and commitment to managing and developing remote sensing technology in Malaysia were realized after being promoted to Deputy Director General (Technical Services) of ARSM in 2011. Subsequently, he was appointed as Director General of ARSM in May 2016 to lead the development and operation of remote sensing technologies in Malaysia.

## Keynote Speaker #2

by Professor Dr. Leonid Mitnik

**Speech Title: Monitoring of Extreme Atmospheric Events Using Satellite Microwave Sensing**



Leonid M. Mitnik  
Chief Scientist of V.I. Il'ichev Pacific Oceanological Institute, Vladivostok

Leonid M. Mitnik was born in Leningrad on October 10, 1938. He received the Diploma in electrical engineering from Leningrad Electric Engineering Institute in 1961, Ph.D. degree in geophysics in 1970 from the State Hydrometeorological Center, Moscow, and D.Sc. degree in remote aerospace research in 1996 from the Institute for Space Research of the Russian Academy of Sciences, Moscow. In 2010, he was awarded the academic title of Professor. He is presently a Chief Scientist in V.I. Il'ichev Pacific Oceanological Institute, Far Eastern Branch, Russian Academy of Sciences, Vladivostok.

Since joining the Pacific Oceanological Institute in 1977, he has worked mainly in passive microwave and radar remote sensing of the atmosphere-ocean system. During this time, he has conducted measurements from the seacoast, research vessels, aircraft and spaceborne platforms. In 1993-2004 he was a visiting Professor at several Universities in Taiwan, Germany, Japan, China, and served as PI and Co-PI of several projects sponsored by ESA, ADRO, NASDA (JAXA) and INTAS, all related to the passive and active remote sensing of environment.

He has published book chapters and more than 150 papers in refereed journals. He has also had more than 140 papers and presentations in national and international conferences and symposia including all PORSEC conferences since 1992. Dr. Mitnik was the recipient of the Goddard Space Flight Center Aqua Outstanding Teamwork Award, the National Aeronautics and Space Administration Aqua Group Achievement Award (2003) and PORSEC Distinguished Science Award for 2004 in Concepcion, Chile.



# Keynote Speaker #3

by Driss El Hadani

**Speech Title: Space Information Contribution to Marine and Oceanographic Resources Management in Morocco**



Driss El Hadani  
Director of Royal Centre for Remote Sensing, Morocco

## Position:

Director, Centre Royal de Télédétection Spatiale (CRTS), 05/1998 - Current.

## Education:

- Engineering degree: Water Resources Management (1988), Mohammed V University, Ecole Mohammadia d'Ingénieurs, Rabat, Morocco.
- DESS degree: Applied Space Technologies (Water Resources Management) (1989) University Paris VI, Pierre et Marie Curie, Paris, France.
- Master of Business: Organizations Management (1999), Institut Supérieur de Commerce et de l'Administration des Entreprises (ISCAE), Casablanca, Morocco.
- Bachelor of Law: Private Law (2006), Mohammed V University, Rabat, Morocco.

## International Activities:

- Member of the Executive Committee of the Group on Earth Observation (GEO), 2005-2007 and 2018-2020.
- First Vice-president of the United Nations Committee for the Peaceful uses of Outer Space (COPUOS), 2000-2004.
- Vice-president of the International Astronautic Federation (IAF). 2002-2004 - Chairman of the National Remote Sensing Committee.
- Member of the Moroccan delegation to the COPUOS, and its Scientist & Technical and Legal subcommittees, 1993 to date.
- Vice-President of the Eurisy Association, 2018-2021.
- Member of the UN-OOSA Working Group in charge of strategy for the integration of space technique in risk and natural disaster management (DMISCO), 1999-2005.
- Member of the Scientific Committee of the African Centre for Catastrophic Risks; created in April 2005 by the African Insurance Organization, 2005 to date.

## Keynote Speaker #4

by Dr. Carlos Juan Gabriel

**Speech Title: The COSPAR Capacity Building Initiative - History and Future**



Dr. Carlos Juan Gabriel  
Committee on Space Research (COSPAR)

Carlos Gabriel, born in 1956, grew up in Argentina. He had to leave the country at the age of 20. He completed his physics studies at the University of Heidelberg (Germany) in 1985 and received his doctorate there four years later in the field of particle physics. His thesis was based on data obtained with the ARGUS experiment at the Deutsches Elektronen-Synchrotron (DESY) in Hamburg.

After several years as a scientist at the Max Planck Institute for Nuclear Physics and the Max Planck Institute for Astronomy in Heidelberg, he began a career as a scientific staff member of the European Space Agency in 1993, which ended with his retirement in 2019. In these 26 years he has mainly contributed to the scientific operations of two major scientific space missions, the Infrared Space Observatory (ISO) and the X-ray Multi-Mirror Observatory (XMM-Newton), in the fields of scientific data analysis software development and instrument calibration.

From 2009 to 2016 Carlos Gabriel was the chairman of the Programme Organising Committee of the Astronomical Data Analysis Software and Systems organisation (ADASS).

He has participated since 2001 as a lecturer in numerous workshops of the COSPAR capacity building program. In 2010 he became responsible for the Fellowships area of the Capacity Building Panel (PCB), and subsequently for the Astronomy and Planetary Sciences area. Since 2018 he leads the PCB as chair.

# TUTORIAL SESSION

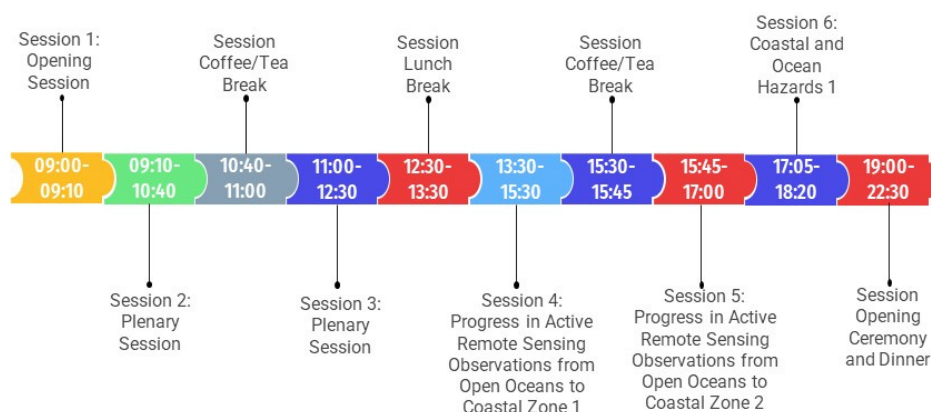
03-06 December 2022

Venue: Universiti Teknologi Malaysia

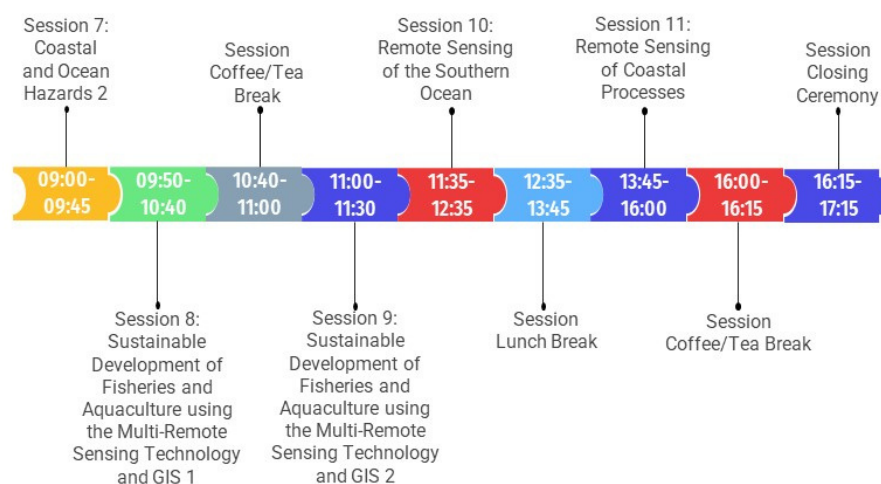
Time / Day	09:00 - 10:15	10:15 - 10:30	10:30 - 11:45	11:45-13:00	13:00 - 14:00	14:00 - 15:15	15:15 - 15:30	15:30 - 16:30	16:30-17:00
3-Dec	Welcoming Remarks and Introduction (Nurul Hazrina Idris, Gad Levy and Carlos Gabriel)	Break	Coastal Shoreline Detection using ArcGIS (Hakim and Hadija)	Machine Learning for Remote Sensing (Andrew Geiss)	Lunch	Practical 1: Accessing data: ERDDAP introduction (Cara Wilson)	Break	Practical 2: Accessing data: using R and Matlab (Cara Wilson)	Group project activity (all instructors)
4-Dec	Fisheris Applications (Nimit Kumar)	Break	Fundamental of Altimetry and Nearshore Altimetry (Stefano Vignudelli and Nurul Hazrina Idris)	Fundamental of SST and Thermal Front Analysis (MingAn Lee)	Lunch	Satellite Data Assimilation (Gad Levy and Andrew Geiss)	Break	Group project activity (all instructors)	Group project activity (all instructors)
5-Dec	Field trip to Pontian and Tanjung Piai								
6-Dec	Student presentation	Break	Student presentation	Lunch	Closing	Tea time	End of session		

## PORSEC 2022 AT A GLANCE

07 December 2022 (Wednesday)



08 December 2022 (Thursday)





## PLENARY SESSION

### 07 December 2022 (Wednesday)

08:00 - 12:10 at Pontian-Level 7

#### 07 December 2022 (Wednesday)

Time	Programme
08:00	Registration
09:00	Opening Remark by Conference Chair: Associate Prof. Dr. Nurul Hazrina Idris (Chair of PORSEC 2022 LOC, UTM)
09:10	<b>Plenary Session.</b> <b>Co-Chair Person:</b> <b>Gad Levy</b> <i>President of PORSEC Association</i> <b>Associate Prof. Dr. Nurul Hazrina Idris</b> <i>Chair of PORSEC 2022 LOC</i>  <b>Inaugural Sharing Session</b> <b>Mr. Ryuji Tomisaka.</b> <i>Secretariat Director,</i> <i>Asia-Pacific Network for Global Change Research.</i> <i>Topic: Ocean remote sensing and early-career capacity building in the Asia-Pacific region</i>
09:30	<b>Keynote Speaker 1: Tuan Haji Azlikamil Napiah.</b> <i>Malaysia Space Agency.</i> <i>Topic: The Implementation of National Space Policy 2030 Agenda</i>
10:05	<b>Keynote Speaker 2: Professor Leonid Mitnik.</b> <i>V.I. Il'ichev Pacific Oceanological Institute Russia.</i> <i>Topic: Monitoring of extreme atmospheric events using satellite microwave sensing</i>
10:40	Tea Break
11:00	<b>Keynote Speaker 3: Mr. D. (Dris) El Hadani.</b> <i>Centre Royal de Teledetection Spatiale, Morocco.</i> <i>Topic: Space information contribution to Marine and oceanographic resources management in Morocco</i>
11:35	<b>Keynote Speaker 4: Dr. Carlos Juan Gabriel.</b> <i>Committee on Space Research (COSPAR).</i> <i>Topic: The COSPAR Capacity Building Initiative - History and Future</i>
12:10	Photo Session and Lunch Break

## DINNER CEREMONY

### 07 December 2022 (Wednesday)

19:00 - 22:30 at Ballroom 2 Level 7

Time	Programme
19:00	Guests Arrival
19:45	Arrival of Vice Chancellor UTM
20:00	Procession of VIP's
20:05	Welcome Dance performance
20:15	Dinner <ul style="list-style-type: none"> <li>◦ Live Band and Dance Performance</li> <li>◦ Remarked by President of PORSEC Association</li> <li>◦ Remarked by Vice Chancellor of UTM</li> <li>◦ Presentation of Awards</li> <li>◦ Photo Session</li> </ul>
22:30	End

## CLOSING CEREMONY

### 08 December 2022 (THURSDAY)

16:15 - 17:15 at Pontian-Level 7

Time	Programme
16:15	Closing remark by Chair of PORSEC 2022 LOC
16:25	Closing remark by President of PORSEC 2022
16:35	Announcement of Best Student Paper
17:15	End of PORSEC 2022

# TECHNICAL ORAL PRESENTATION

## Wednesday, December 7

### Wednesday, December 7, 09:00-09:10

#### Session 1: Opening Session

Chairs: Nurul Hazrina Idris and Gad Levy  
Location: Pontian-Level 7

### Wednesday, December 7, 09:10-10:40

#### Session 2: Plenary Session

Chairs: Nurul Hazrina Idris and Gad Levy  
Location: Pontian-Level 7

#### 09:10-09:25

Mr. Ryuji Tomisaka  
*Ocean remote sensing and early-career capacity building in the Asia-Pacific region*

#### 09:25-10:00

##### Tuan Haji Azlikamil Napiah

*The Implementation of National Space Policy 2030 Agenda*

#### 10:00-10:40

Prof. Dr. Leonid M. Mitnik  
*Monitoring of extreme atmospheric events using satellite microwave sensing.*

### Wednesday, December 7, 10:40-11:00

Coffee/Tea Break  
Location: Lobby-Level 7

### Wednesday, December 7, 11:00-12:30

#### Session 3: Plenary Session

Chairs: Nurul Hazrina Idris and Gad Levy  
Location: Pontian-Level 7

#### 11:00-11:35

Driss El Hadani  
*Space information contribution to Marine and oceanographic resources management in Morocco*

#### 11:35-12:30

Carlos Gabriel  
*The COSPAR Capacity Building Initiative - history and future*

### Wednesday, December 7, 12:30-13:30

Lunch Break  
Location: Infusion Café, Level G

### Wednesday, December 7, 13:30-15:30

#### Session 4: Progress in Active Remote Sensing Observations from Open Oceans to Coastal Zone 1

Chairs: Stefano Vignudelli and Norhakim Yusof  
Location: Pontian-Level 7

#### 13:30-13:45

Mikayla Craven, Georgia Parks, Alexander Soloviev, Breanna Vanderplow, John Kluge, Aurelien Tartar, Hui Shen and William Perrie  
*Diurnal cycle of surfactant-associated bacteria in the sea surface microlayer and its potential effect on surface slick visibility in SAR*  
Presenter: Mikayla Craven

#### 13:45-14:00

Nurul Hazrina Idris, Muhammad Haikal Fayyadh Munadi  
*Artificial Neural Network for Precise Satellite Altimetry Sea Levels Estimations: Testing using Simulated*

#### 14:00-14:15

Muhammad Rizki Nandika and Herlambang Aulia Rachman  
*Dynamic of Sea Level Anomaly in Indonesian Maritime Continent Revealed from Satellite Data*  
Presenter: Muhammad Rizki Nandika

#### 14:15-14:30

Randi Firdaus, Amir Y Yuliardi, Eko Prasetyo and Maya E Sinurat  
*Seasonal and Interannual Variability of Sea Level Anomaly in the Banda Sea*  
Presenter: Randi Firdaus

#### 14:30-14:45

Miyazaki Toshiyuki, Takashi Kusaka, Fumihiro Takahashi and Takashi Hosokawa  
*Lightweight retroreflective structures as SAR satellite targets*  
Presenter: Miyazaki Toshiyuki

#### 14:45-15:00

Muhammad Faiz Pa'Suya, Ami Hassan Md Din, Noorfatekah Talib, Mohamad Azril Che Aziz, Muhammad Zahir Ramli and Mohammad Hanif Hamden  
*Estimation Of Absolute Geostrophic Current Over the East Coast of Peninsular Malaysia Using Local Mean Dynamic Topography Derived Based on Local Precise Geoid Model*

#### 15:00-15:15

Nornajihah Mohammad Yazid, Ami Hassan Md Din, Muhammad Faiz Pa'Suya, Abdullah Hisam Omar, Nazirah Mohamad Abdullah and Mohammad Hanif Hamden  
*Developing Marine Geoid Model from Along-track Multi-mission Satellite Altimetry Data across Malaysian Seas*  
Presenter: Nornajihah Mohammad Yazid

#### 15:15-15:30

Mohd Faizuddin Abd Rahman, Ami Hassan Md Din, Mohammad Hanif Hamden and Mohd Razali Mahmud  
*Developing A Near-Seamless Tidal Datum By Integrating Tidal And Satellite Altimetry Data With A Digital Elevation Model For Maritime Boundary Delimitation*

### Wednesday, December 7, 15:30-15:45

Coffee/Tea Break  
Location: Lobby-Level 7

### Wednesday, December 7, 15:45-17:00

Chairs: Mohd Nadzri Md Reba and Carlos Gabriel  
Location: Pontian-Level 7

#### 15:45-16:00

Muhammad Luqman Ahmad Affandi, Ami Hassan Md Din and Abd Wahid Rasib  
*Sea Level Rise Estimation and Projection from Long-term Multi-Mission Satellite Altimetry and Tidal Data in the Southeast Asian Region*  
Presenter: Muhammad Luqman Ahmad Affandi

#### 16:00-16:15

Benkouider Touati and Rami Ali  
*Using TPXO model for Chart Datum Modeling Case of study: Algerian coast*

#### 16:15-16:30

Maya Eria Sinurat, Bisman Nababan, Jonson Lumban Gaol, Henry Munandar Manik, Nurul Hazrina Idris and Stefano Vignudelli  
*Evaluation of Retracked Sea Levels from Jason-2 Altimetry in Halmahera Sea, Indonesia*

#### 16:30-16:45

Sergey Lebedev, Andrey Kostianoy, Rashit Ibrayev and Sergey Popov  
*Combined Analysis of Water Exchange between Different Parts of The Caspian Sea Based on Satellite Altimetry and Numerical Simulation Data*

#### 16:45-17:05

Yuriy Titchenko, Kirill Ponur and Vladimir Karaev  
*Features of the pulse reflected by the water surface in remote sensing devices with a wide antenna pattern*

### Wednesday, December 7, 17:05-18:20

#### Session 6: Coastal and Ocean Hazards 1

Chairs: Cara Wilson and Nimit Kumar  
Location: Pontian-Level 7

#### 17:05-17:20

Badrul Huda Husain, Takahiro Osawa and Ali Hamdani  
*Application Of Illegal Oil Bilge Dumping Monitoring Using Synthetic Aperture Radar Satellite Sentinel 1a Data And Automatic Identification System Broadcast Signals Over Sunda Strait, Banten Province, Indonesia*



## TECHNICAL ORAL PRESENTATION

**17:20-17:35**

Nurul Ain Najwa Zulkifle and Nurul Hazrina Idris  
*Coastline Changes Along Johor Strait by Using Sentinel-1 Synthetic Aperture Radar Imagery*  
Presenter: Nurul Ain Najwa Zulkifle

**17:35-17:50**

I Mada Dharma Raharja, Adelina Gaol and Ivonne Milichristi Radjawane  
*The Spatiotemporal Changes to Coastal Land Reclamation around Southern Bali Island: Urban Heat Island and Prediction of Seawater Exchange*  
Presenter: Adelina Gaol

**17:50-18:05**

Dewayany Sutrisno, Mulyanto Darmawan and Muhammad Helmi  
*Evaluation of coastal management for sinking coastal area*  
Presenter: Dewayany Sutrisno

**18:05-19:00**

Maria Panfilova and Vladimir Karaev  
*High wind speed retrieval algorithm using Ku-band radar data onboard GPM satellite*

**Wednesday, December 7, 19:00-22:30**

Opening Ceremony and Dinner  
Location: Ballroom 2 Level 7

**Thursday, December 8**

**Thursday, December 8, 09:00-09:45**

**Session 7: Coastal and Ocean Hazards 2**

Chairs: Andrew Geiss  
Location: Pontian-Level 7

**09:00-09:15**

Chonnaniyah Chonnaniyah, Takahiro Osawa, I Wayan Gede Astawa Karang, Abd Rahman As-Syakur and Jose C B da Silva  
*Effect of Internal Solitary Waves on Coastal Interaction in The Lombok Strait using Multi-satellite Data*  
Presenter: Chonnaniyah Chonnaniyah

**09:15-09:30**

Rebekah Shunmugapandi, Shirishkumar Gedam and Arun Inamdar  
*Tropical cyclone triggers PSC shifts in the Arabian Sea*  
Presenter: Rebekah Shunmugapandi

**09:30-09:50**

Nurjannah Nurdin, Muhammad Hatta, Supriadi Mashoreng, Khairul Amri, Dwia Aries Tina Pulubuhu, Agus Aris, M. Akbar As, Nurliah Nurdin and Teruhisa Komatsu  
*Temporal Series Of Coastal Ecosystem Condition In Small Islands; Perspective Of Remote And Social Sensing*  
Presenter: Nurjannah Nurdin

**Thursday, December 8, 09:00-09:45**

**Session 8: Sustainable Development of Fisheries and Aquaculture using the Multi-Remote Sensing Technology and GIS 1**

Chairs: Cara Wilson and Ming-An Lee  
Location: Pontian-Level 7

**09:50-10:05**

Riah Irawati Sihombing, Aratrika Ray, Sandipan Mondal, Ming An Lee and Yi Chen Wang  
*Habitat modeling of *Lepidocybium flavobrunneum* in the Southwestern Indian Ocean using remote sensing data*  
Presenter: Riah Irawati Sihombing

**10:05-10:20**

Muhammad Danish Siddiqui and Arjumand Zaidi  
*Mapping Seaweed Resources along Karachi coast, Pakistan using WorldView-2 Satellite Data*  
Presenter: Muhammad Danish Siddiqui

**10:40-11:00**

Coffee/Tea Break  
Location: Lobby-Level 7

**Thursday, December 8, 11:00-11:30**

**Session 9: Sustainable Development of Fisheries and Aquaculture using the Multi-Remote Sensing Technology and GIS 2**

Chairs: Ming-An Lee and Cara Wilson  
Location: Pontian-Level 7

**11:00-11:15**

Md. Shahin Hossain Shuva  
*Pico, Nano and Micro-Phytoplankton Variability in the Northern Bay of Bengal: A Remote Sensing Approach*

**11:15-11:35**

Mubarak Mammel, Ming-An Lee and Yi-Chen Wang  
*Habitat Fluctuations and Catch Rates Variability of Greater Amberjack in the Taiwan Strait: Impact on El Niño-Southern Oscillation (ENSO) Episodes*  
Presenter: Mubarak Mammel

**Thursday, December 8, 11:35-12:35**

**Session 10: Remote Sensing of the Southern Ocean**

Chairs: Gad Levy and Leonid Mitnik  
Location: Pontian-Level 7

**11:35-11:50**

Nurul Atikah Rohana and Norhakim Yusof  
*Exploring Spatio- Temporal Patterns Of Wind And Wave Towards Energy Harvesting In Malaysia: A Review*

**11:50-12:05**

Md Asif Hasan, Anika Nawar Mayeesha and Md. Zayed Abdur Razzak  
*Evaluating the dynamic changes in morphology of the Nijhum Dwip Island and its vulnerability to flood inundation due to storm surge using remote sensing techniques*  
Presenter: Md Asif Hasan

**12:05-12:20**

Leonid Mitnik, Vladimir Kuleshov and Maia Mitnik  
*Satellite Study Of Atmospheric Rivers Over Waters Around Antarctica*

**Thursday, December 8, 12:35-13:45**

Lunch Break  
Location: Infusion Café, Level G

**Thursday, December 8, 13:45-16:00**

**Session 11: Remote Sensing of Coastal Processes**

Chairs: Nimit Kumar and Stefano Vignudelli  
Location: Pontian-Level 7

**13:45-14:00**

Taerim Kim  
*Observation Of Wave Propagation In The Coast Using Drones*

**14:00-14:15**

Amirotul Bahiyah and Iskhaq Iskandar  
*Massive SST-Front Anomaly in the Tip of Sumatra Waters Triggered by Extreme Positive IOD 2019 Event*  
Presenter: Amirotul Bahiyah

**14:15-14:30**

Sandipan Mondal, Riah Irawati Sihombing, Aratrika Ray, Ming-An Lee and Yi-Chen Wang  
*Long Term observation on Sea Surface Temperature in Gulf of Mannar using remote sensing data*  
Presenter: Sandipan Mondal

**14:30-14:45**

Andrew Geiss  
*Interpreting Marine Cloud Imagery with Contrastive Learning*



## TECHNICAL ORAL PRESENTATION

### 14:45-15:00

Syazwi Q. Al Azizi, Mukti Ali, Abdul R. Rasyid, Yashinta Kumala and Nurjannah Nurdin  
*Waste Management Plan In Small Island With Utilization Of UAV Images (Case Study: Balang Lompo Island, Pangkep Regency)*

### 15:00-15:15

Nur Surayatul Atikah Alihan, Ami Hassan Md Din, Mohammad Hanif Hamden and Dudy Wijaya  
*Deriving S2 Tidal Constituents Over Malaysian Seas Using Multi-Mission Satellite Altimetry*

### 15:15-15:30

Nor Safizah Ponachi, Nurul Hazrina Idris and Alvin Lau Meng Shin  
*Comparing the Accuracy of DEM Derived from the Varying UAV Flight Height Over Coastal Region.*  
Presenter: Nor Safizah Ponachi

### 15:30-15:45

Abderrahim Bentamy and Seymon Grodsky  
*27 years of scatterometer surface wind analysis over eastern boundary upwelling systems*

### 15:45-16:00

Jonson Lumban-Gaol, Bonar P. Pasaribu, Nurul Hazrina Idris, Stefano Vignudelli and Maya Eria Sinurat  
*Sea Surface Height Variability And Trends In South East Asian Seas From 25-Years Altimetry Data*

### Thursday, December 8, 16:00-16:15

Coffee/Tea Break  
Location: Lobby-Level 7

### Thursday, December 8, 16:15-17:15

Closing Ceremony  
Location: Pontian-Level 7

## PRESENTATION INSTRUCTIONS

The duration of each oral presentation is 10 mins, and Q&A is 5 mins.

We request you to upload your slides to our google drive or email to [porsec2020@gmail.com](mailto:porsec2020@gmail.com) at least an hour before your session begins.

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