

**TROPICAL OCEAN &
MARINE SCIENCES
INTERNATIONAL SYMPOSIUM
[TOMSY2018]**

*'Discovering the Oceans
for Future Sustainability'*

30-31 October 2018
Permai Hotel, Kuala Terengganu

PROGRAMME
BOOK



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OF EDUCATION
MALAYSIA



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Contents

Welcoming Note	4
Vice Chancellor, Universiti Malaysia Terengganu (UMT).....	4
Message	5
Chairman of TOMSY2018	5
Conference Information.....	6
Programme Summary	7
Organising Committee	8
Keynotes and Plenary Speakers	9
Programme Schedule	10
Poster Sessions.....	18
Acknowledgement	19
Advertisements.....	20

Welcoming Note

Vice Chancellor, Universiti Malaysia Terengganu (UMT)



Assalamu'alaikum wbt and Greetings

Praise to Allah SWT that we finally managed for the first time to organise the Tropical Ocean and Marine Sciences International Symposium 2018 (TOMSY2018). I would like to extend a warm welcome to all delegates and participants of the TOMSY2018.

I would like to convey my thanks to the Institute of Oceanography and Environment (INOS) and to The First Institute of Oceanography (FIO) China for their successful collaboration as joint-organisers for this event. May this venture bring forth positive outcomes by creating greater harmony alliances and more new perspectives on marine research in the global arena.

This symposium brings together scientists to exchange and share their experiences and research results about all aspects of ocean and marine sciences especially in the tropical areas. With the theme "Discovering the Oceans for Future Sustainability" this symposium sets forth an opportunity for scientists here to discuss issues that affects the oceans. As we are all aware, the oceans and marine biodiversity are changing rapidly and it would take great science, large numbers of trained scientists, socially responsible populations and governments with great political will, to avert a global catastrophe.

UMT is an institution of higher education that is directly involved in the development and progress in marine and maritime affairs, with research interests in coastal zones, estuaries, mangrove forests, coral reefs and sea grass beds. In our institution, experts in the above mentioned areas are always committed to experiment with new approaches to ensure that the attainment of the desired quality of human life does not hamper the lives of other beings.

I wish to thank and congratulate the Organising Committee members, to the generous sponsoring agencies, and all parties who directly or indirectly contributed in implementing this event, which has brought together the region's experts and young scientists of tomorrow to share knowledge, resources and technologies. I hope that this symposium will be a platform not only for awareness on the importance of balance marine ecosystem but also for the enhancement of environmental management practices in our country.

Have a great symposium and experience of peace in Terengganu. Thank you.

YANG BERBAHAGIA PROF. DATO' DR. NOR AIENI HAJI MOKHTAR

Message

Chairman of TOMSY2018



Assalamu'alaikum wbt and Welcome to TOMSY2018

On behalf of the organising committee, I would like to take this opportunity to welcome all participants and guests to this Tropical Ocean and Marine Sciences International Symposium 2018 (TOMSY2018). We are honoured to host this first event of TOMSY2018. This event is co-organised by Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu (UMT) with First Institute of Oceanography (FIO), State Oceanographic Administration (SOA), China.

With our symposium's theme "Discovering the Oceans for Future Sustainability", I hope that this event will be a good platform for the local as well as international researchers to discuss the issues related to ocean and marine sciences. Apart from fostering international linkages and networking with the international scientific community, I believe this symposium will contribute enormously towards identifying new opportunities for research, especially in the South China Sea (SCS) region. This is important as INOS has been given a mandate by the Ministry of Education in 2012 to explore the research in the marine area, under Higher Institution Centre of Excellence (HiCoE) project, and SCS is the focusing area. Since then, there is an increasing number of research and publication in this particular area through the collaboration with local and international researchers.

I wish to express my sincere appreciation to distinguish speakers, presenters and participants for their support and participation in this symposium. I also thank the members of the Organising Committee, for their hard work, effort and endless support in ensuring the success of this symposium. I am also grateful to the management of UMT for continuously giving support and encouragement to this symposium. Finally, allow me to express my sincerest gratitude to all our sponsors for their kind support and generous contributions.

Best wishes. Thank you.

ASSOC. PROF. DR. SUHAIMI SURATMAN

October 2018

UMT

CONFERENCE INFORMATION

*Tropical Ocean and Marine
Science Symposium 2018*

What is TOMSY?



OBJECTIVES

This symposium aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results about all aspects of ocean and marine sciences especially in the tropical areas

THEME

“Discovering the Oceans for
Future Sustainability”

SUB THEME

Coastal & Shelf Dynamics - Biological Oceanography - Ocean Biogeochemistry -- Marine Geology and Seabed Mapping - Marine Pollution - Satellite, Remote Sensing and GIS - Coastal Geomorphology - Marine Endangered Species - Marine Biology - Coral Reef Ecology - Ocean Governance

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Programme Summary

DAY 1 (Tuesday, 30 October 2018)

0730-0845	Registration and Poster Set-Up		
0900-0945	Opening Ceremony and Keynote by Vice Chancellor of Universiti Malaysia Terengganu		
0925-1000	Book Launching : Green Sea Turtles of Malaysia Signing of MOU		
1000-1050	Keynote by Prof. Dr. Chen Liqi Third Institute of Oceanography, State Oceanic Administration of China		
1050-1115	Refreshment		
1115-1145	Plenary 1 by Prof. Dr. Wan Izatul Asma Wan Talaat Institute of Oceanography and Environment, Universiti Malaysia Terengganu		
1145-1245	Session 2A Processes in Nearshore and Coastal Seas	Session 2B Ocean Policy and Governance	Session 2C Mangrove Ecology
1245-1315	Poster Session I		
1315-1415	Lunch/Solat Break		
1415-1445	Plenary 2 by Assoc. Prof. Dr. Ir. Ario Damar Bogor Agricultural University, Indonesia		
1445-1645	Session 3A Method Development and Chemical-Biological Interaction	Session 3B Remote Sensing in Environmental Ecosystem	Session 3C Marine Mammals Ecology
1645	Refreshment/End of Session		

DAY 2 (Wednesday, 31 October 2018)

0800-0900	Registration and Poster Set-Up		
0900-0930	Plenary 3 by Dr. Gao Zhigang National Marine Data and Information Service, China		
0930-1045	Session 4A Ocean Models and Observations in South China Sea	Session 4B Ocean Policy and Governance	Session 4C Marine Ecological Resilience
1045-1100	Refreshment		
1100-1130	Plenary 4 by Renee Teo Yong Yin Bruker Malaysia Sdn. Bhd.		
1130-1245	Session 5A Subsurface Mapping and Survey	Session 5B Paleo-Oceanography and Marine Geochemistry	Session 5C Marine Ecological Resilience
1245-1315	Poster Session II		
1315-1430	Lunch/Solat Break		
1415-1445	Plenary 5 by Assoc. Prof. Dr. Mohd Fadzil Akhir Institute of Oceanography and Environment, Universiti Malaysia Terengganu		
1445-1630	Session 6A Chemical Seasonal Variability and Changes	Session 6B Marine Geochemistry	Session 6C Diverse Dynamics and Seasonality in Coastal Areas
1630	Closing Ceremony and Keynote by Deputy Vice Chancellor of Universiti Malaysia Terengganu		
1645	Refreshment and End of Symposium		

Organising Committee

Patron

Prof. Dato' Dr. Nor Aieni bt. Hj. Mokhtar

Advisor

Prof. Dr. Mazlan bin Abd. Ghaffar

Co-Advisor

Assoc. Prof. Dr. Aidy @ Mohamed Shawal bin M Muslim

Chairman

Assoc. Prof. Dr. Suhaimi bin Suratman

Secretariat

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Prof. Dr. Wan Izatul Asma Wan Talaat (Head)
Mr. Fathy Kameel bin Mohd. Fadzil
Ms. Noor Suhaila bt. Mat Hassan
Ms. Kamizah bt. Ibrahim
Ms. Nurul Fatihah bt. Mazalan
Ms. Saripah Suryani bt. Syed Hassan

Excursion

Assoc. Prof. Dr. Saifullah Ariffin Jaaman (Head)
Mr. Subarjo bin Merehojono
Mr. Azri bin Muhamad
Mr. Hazrul bin Ahmad

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Mr. Ahmad Nazila bin Ali
Mr. Che Kamarul Anuar bin Che Abdullah
Mr. Zulfikri bin Muda
Mr. Nurul Fakhri bin Alias
Mr. Abdul Hafiz bin Zakari

Opening Keynote

PROF. DATO' DR. NOR AIENI BT MOKHTAR

*Vice Chancellor
Universiti Malaysia Terengganu*

*TITLE: OCEAN SCIENCE AGENDA FOR THE FUTURE OF HUMANITY:
EMBRACING THE SPIRIT OF SDG14*



Keynote

PROF. DR. CHEN LI QI

Third Institute of Oceanography, China

*TITLE: GLOBAL OCEAN ACIDIFICATION WITHOUT
BORDERS: A CASE STUDY FROM THE ARCTIC OCEAN*



Closing Keynote

PROF. DR. MAZLAN BIN ABD. GAFFAR

Universiti Malaysia Terengganu

*TITLE: CLIMATE CHANGE IMPACT ON THE CAPTIVE MARINE
ORGANISM*



Plenary 1

PROF. DR. WAN IZATUL ASMA WAN TALAAT

Institute of Oceanography and Environment, Universiti Malaysia Terengganu

*TITLE: SUSTAINABLE FISHERIES MANAGEMENT IN MALAYSIA: REGIONAL
AND NATIONAL EFFORTS*



Plenary 2

ASSOC. PROF DR. IR ARIO DAMAR

Bogor Agricultural University, Indonesia

*TITLE: THE EUTHROPHICATION STATES AND NUTRIENT-
PHYTOPLANKTON DYNAMICS OF THE EUTROPHIED TROPICAL
EMBAYMENT OF JAKARTA BAY, INDONESIA: TEMPORAL DYNAMICS FROM
2001 TO 2017*



Plenary 3

DR. GAO ZHIGANG

National Marine Data and Information Service, Ministry of Natural Resources, China

*TITLE: TOWARDS BETTER DATA SHARING: CHINA-ASEAN MARINE BIG
DATA SERVICE PLATFORM*



Plenary 4

RENEE TEO YONG YIN

Bruker Malaysia Sdn. Bhd.

TITLE: ANALYSIS OF MICROPLASTICS USING FTIR



Plenary 5

ASSOC. PROF DR. MOHD FADZIL MOHD AKHIR

Institute of Oceanography and Environment, Universiti Malaysia Terengganu

*TITLE: UPWELLING, THERMAL FRONT AND THE INFLUENCE OF ENSO
VARIABILITY IN THE SOUTHERN SOUTH CHINA SEA.*



Programme Schedule

DAY 1 (Tuesday, 30 October 2018)

0730-0845	Registration and Poster Set-Up		
0900-0945	Welcoming Speech and Opening Ceremony		
0925-1000	Book Launching : Green Sea Turtles of Malaysia Exchange of Memoranda of Understanding (MoU)		
Session 1: Keynote Session (BERLIAN HALL)			
1000-1050	Keynote by Prof. Dr. Chen Liqi Third Institute of Oceanography, State Oceanic Administration of China TITLE: GLOBAL OCEAN ACIDIFICATION WITHOUT BORDERS: A CASE STUDY FROM THE ARCTIC OCEAN		
1050-1115	Refreshment		
Session 2: Plenary 1 (BERLIAN HALL) and Parallel Scientific Sessions			
1115-1145	Plenary 1 by Prof. Dr. Wan Izatul Asma Wan Talaat Institute of Oceanography and Environment, Universiti Malaysia Terengganu TITLE: SUSTAINABLE FISHERIES MANAGEMENT IN MALAYSIA: REGIONAL AND NATIONAL EFFORTS		
	Session 2A (BERLIAN HALL) Processes in Nearshore and Coastal Seas	Session 2B (ZAMRUD HALL) Ocean Policy and Governance	Session 2C (NILAM HALL) Mangrove Ecology
1145-1200	MEAN SEA LEVEL TRENDS AND VARIABILITY IN THE SOUTH CHINA SEA Abd Muhaimin Amiruddin (UPM)	LIMITED THE BAY: LOCAL COMMUNITY PRACTICES IN PROTECTING MARINE AREA IN PULO BREUH, ACEH, INDONESIA Faisal Syahputra (ABULYATAMA UNIVERSITY, ACHEH)	<i>Carcinoscorpius rotundicauda</i> (LATREILLE, 1802): POPULATION STATUS AND SPAWNING BEHAVIOR AT PENDAS COAST, PENINSULAR MALAYSIA Satyanarayana Behara (UMT)
1200-1215	HYDRAULIC STUDY WITHIN ONE FATHOM BANK LIGHTHOUSE WATERS AND MALACCA STRAIT, OFF PORT KLANG, SELANGOR Ahmad Hadi Mohamed Rashidi (NAHRIM)	THE ANGLO-DUTCH TREATY 1824: WAS THE PARTITIONING OF THE MALAY ARCHIPELAGO VALID? Mohd Hazmi bin Mohd Rusli (USIM)	FLOATING AND VIABILITY OF <i>Rhizophora mucronata</i> LAMK. PROPAGULES: IMPLICATIONS FOR LONG DISTANCE DISPERSAL SIMULATION Atteleth Don Peris (UMT)

1215-1230	THEORETICAL AND OBSERVED BREAKING WAVE HEIGHT ON PAHANG BEACH: AN IMPLICATION FOR THE ESTIMATION OF RIP CURRENT Nor Kamilah Yusof (IIUM)	MARINE SPATIAL PLANNING: THE WAY FORWARD FOR SUSTAINABLE DEVELOPMENT OF CENTRAL TERENGGANU Nazli Aziz (UMT)	MANGROVE HEALTH INDEX, A ROBUST INDEX BASED ON RECENT MANGROVE CONDITION IN INDONESIA AND POTENTIALLY CONTRIBUTED FOR GLOBAL ESTIMATION I Wayan Eka Dharmawan (PPO-LIPI, INDONESIA)
1230-1245	EVALUATING THE EFFECT OF BEACH NOURISHMENT ON LITTORAL MORPHODYNAMICS AT KUALA NERUS, TERENGGANU (MALAYSIA) Effi Helmy Ariffin (UMT)	THE COMBINED EFFECT OF ZINC AND PH ON GROWTH RATE, CHLOROPHYLL A CONTENT AND PHOTOSYNTHESIS ACTIVITY OF BROWN SEAWEED, <i>Padina boryana</i> Nabeela Ali Al-Awlaqi (UMT)	MANMADE DISTURBANCES IN THE MANGROVE – GOOD OR BAD? AN ASSESSMENT FROM MATANG MANGROVE FOREST RESERVE IN PENINSULAR MALAYSIA Muhammad Amir Bin Fisol (UMT)
1245-1315	Poster Session		
1315-1415	Lunch/Solat Break		
Session 3: Plenary 2 (BERLIAN HALL) and Parallel Scientific Sessions			
1415-1445	Plenary 2 by Assoc. Prof. Dr. Ir. Ario Damar Bogor Agricultural University, Indonesia TITLE: THE EUTHROPHICATION STATES AND NUTRIENT-PHYTOPLANKTON DYNAMICS OF THE EUTROPHIED TROPICAL EMBAYMENT OF JAKARTA BAY, INDONESIA: TEMPORAL DYNAMICS FROM 2001 TO 2017		
	Session 3A (BERLIAN HALL) Method Development and Chemical-Biological Interaction	Session 3B (ZAMRUD HALL) Remote Sensing in Environmental Ecosystem	Session 3C (NILAM HALL) Marine Mammals Ecology
1445-1500	DESIGN AND ASSESSMENT OF GAS-WATER EQUILIBRATOR FOR CONTINUOUS PCO2 MEASUREMENT IN COASTAL WATER Poh Seng Chee (UMT)	ESTIMATION OF CARBON STOCK CHANGES ON MANGROVE FOREST IN PAHANG COAST USING GEOSPATIAL METHOD Maya Liyana Hamzah (UKM)	ASSOCIATION OF IRRAWADDY DOLPHINS (<i>Orcaella brevirostris</i>) WITH ENVIRONMENTAL PARAMETERS IN RAJANG RIVER, SARAWAK, MALAYSIA Saifullah Arifin Jaaman (UMT)

1500-1515	BALLAST WATER AND MARINE ENVIRONMENTAL QUALITY AT MAJOR PORTS OF MALAYSIA Hing Lee Siang (UMT)	A COLLABORATIVE FRAMEWORK FOR ASSESSING SEAGRASS ECOSYSTEM SERVICES BASED ON EARTH OBSERVATION (EO) SYSTEM Mohammad Shawkat Hossain (UMT)	SEASONAL OCCURRENCE, DISTRIBUTION, AND ABUNDANCE OF IRRAWADDY DOLPHINS (<i>Orcaella brevirostris</i>) IN THE BAY OF BRUNEI, BRUNEI DARUSSALAM Farah Dayana Ismail (UMT)
1515-1530	DISTRIBUTION OF DISSOLVED ALUMINIUM (DAL) IN SEAWATER AT PULAU PERHENTIAN, TERENGGANU Khairul Nizam Mohamed (UPM)	SIMULATING DIFFRACTION PROBLEM OF A FIXED 2-DIMENSIONAL RECTANGULAR SECTION USING WEAKLY COMPRESSIBLE SMOOTHED PARTICLES HYDRODYNAMICS (WCSPH) Muhammad Amirul Syafiq Hamsan (IIUM)	FEEDING BEHAVIOUR OF IRRAWADDY DOLPHINS (<i>Orcaella brevirostris</i>) IN THE BAY OF BRUNEI, BRUNEI DARUSSALAM Nurlisa Azizul (UMT)
1530-1545	DISTRIBUTION AND BEHAVIOR OF NUTRIENTS IN BESUT RIVER ESTUARY, TERENGGANU, MALAYSIA Fatin Adlina Md Nasir (UMT)	SPATIO-TEMPORAL ASSESSMENT OF GPM IMERG AND TRMM 3B43 IN SABAH AND SARAWAK, MALAYSIA Aidy @ Mohamed Shawal M Muslim (UMT)	DISTRIBUTION AND ABUNDANCE OF DUGONGS IN THE MALAYSIAN WATERS OF BRUNEI BAY, BORNEO: RESULTS FROM BOAT SURVEY AND INTERVIEW SURVEY OF FISHERMEN Azzakirat Abdul Raman (UMT)
1545-1600	HEAVY METALS IN TUNA SPECIES MEAT AND POTENTIAL CONSUMER HEALTH RISK: A REVIEW Norhazirah Abd Aziz (UMT)	UAV DATA ACQUISITION STRATEGIES FOR FRINGING REEF MAPPING Chong Wei Sheng (UMT)	SPATIAL AND TEMPORAL DISTRIBUTION OF FISH SPECIES IN COWIE BAY, SABAH Nurmuna Mohd Noor (UMT)
1600-1615	MICROPLASTICS ANALYSIS IN ESTUARINE WATER: A FIELD STUDY OF SETIU WETLAND Siti Rabaah Hamzah (UMT)	THE INFLUENCE OF OPTICAL WATER TYPES ON REMOTE SENSING OF CHLOROPHYLL IN MALAYSIAN WATERS Nur Hafiza Ramli (UMT)	BY-CATCH ESTIMATES OF DUGONG AND DOLPHIN: RESULT FROM AN INTERVIEW SURVEY OF FISHERMAN IN THE BAY OF BRUNEI, MALAYSIA Nurul Hidayah Abdul Rahim (UMT)

1615-1630	<p>DEVELOPMENT OF A MODIFIED GOLD SCREEN PRINTED ELECTRODE FOR THE DETECTION OF TOXIC DOMOIC ACID</p> <p>Hafiza Mohamed Zuki (UMT)</p>	<p>STATUS OF LABUAN MARINE PARK CORAL REEF DISTRIBUTION: A PRELIMINARY ASSESSMENT USING DRONE REMOTE SENSING AND GROUND TRUTH OBSERVATIONS</p> <p>Idham Khalil (UMT)</p>	<p>DISTRIBUTION AND GROUP SIZE OF IRRAWADDY DOLPHINS (<i>Orcaella brevirostris</i>) IN THE MALAYSIAN WATERS OF BRUNEI BAY, BORNEO ISLANDS</p> <p>Azmi Marzuki Muda (UMT)</p>
1630-1645	<p>A NEW TECHNIQUE FOR THE MEASUREMENT OF VOLATILE ORGANIC COMPOUNDS SEA-TO-AIR FLUXES AT THE AIR-SEA INTERFACE</p> <p>Royston Uning (UKM)</p>	<p>CONVOLUTIONAL NEURAL NETWORK (CNN) MODELS PERFORMANCE EVALUATION USING FISH SPECIES DATASET IN COASTAL OF TERENGGANU</p> <p>Hamizah Ismail (UMT)</p>	<p>DISTRIBUTION PATTERN OF RARE EARTH ELEMENTS IN SOFT TISSUE OF SACOSTREA CUCULLATA IN TERENGGANU AND EAST JOHOR COASTAL WATERS</p> <p>Nik Nurizni Nik Ali (IIUM)</p>
1645	Refreshment/End of Session		

DAY 2 (Wednesday, 31 October 2018)

0800-0900	Registration and Poster Set-Up		
Session 4: Plenary 3 (BERLIAN HALL) and Parallel Scientific Sessions			
0900-0930	Plenary 3 by Dr. Gao Zhigang National Marine Data and Information Service, China TITLE: TOWARDS BETTER DATA SHARING: CHINA-ASEAN MARINE BIG DATA SERVICE PLATFORM		
	Session4A (BERLIAN HALL) Ocean Models and Observations in South China Sea	Session 4B (ZAMRUD HALL) Ocean Policy and Governance	Session 4C (NILAM HALL) Marine Ecological Resilience
0930-0945	UPWELLING DYNAMICS ALONG THE EAST COAST OF PENINSULAR MALAYSIA Poh Heng Kok (UMT)	TRADITIONAL MEDICINES FROM MARINE BIOLOGICAL RESOURCES: UNDERSTANDING THE CONSUMER'S KNOWLEDGE AND PERCEPTIONS Hayatul Safrah Salleh (UMT)	MOLECULAR AND MORPHOLOGICAL CHARACTERIZATION OF MYXOZOAN PARASITES FROM SETIU WETLANDS, TERENGGANU Muhammad Hafiz Borkhanuddin (UMT)
0945-1000	CASE STUDY ON THE THREE-DIMENSIONAL STRUCTURE OF MESO-SCALE EDDY IN THE SOUTH CHINA SEA BASED ON A HIGH-RESOLUTION MODEL Changshui Xia (FIO, CHINA)	MARINE SPATIAL PLANNING: THE CASE STUDY IN SETIU WETLAND Zikri Muhammad (UMT)	SPECIES RICHNESS OF GASTROPODS IN TRA VINH COASTAL ZONE, VIETNAM Van-Tien Tran (ITB, VIETNAM)
1000-1015	CAN THE PENINSULAR MALAYSIA THERMAL FRONT CHANGE THE INFLOW CURRENT TO THE GULF OF THAILAND? Nurul Rabitah Daud (UMT)	MARINE RENEWABLE ENERGY GOVERNANCE IN MALAYSIA: A WAY FORWARD Farahdilah Ghazali (IIUM)	FORENSIC INVESTIGATION OF SEA TURTLE CARCASSES FOUND AT PULAU TIGA, TUN MUSTAPHA PARK, KUDAT, SABAH, MALAYSIA. Juanita Joseph (UMS)
1015-1030	CHARACTERISTICS OF UPWELLING IN NORTHWEST SABAH DURING NORTHEAST MONSOON Muhammad Naim Mohd Satar (UMT)	GENERATION AND CHARACTERIZATION OF RECYCLABLE AND NON-RECYCLABLE WASTE AT BEACH FOOD HUB: UPTOWN KONTENA DAPO PATA, TOK JEMBAL BEACH, KUALA NERUS, TERENGGANU. Izan Jaafar (UMT)	ANALYSIS OF PHYSICAL-CHEMICAL DATA CHARACTERIZATION OF THE PERFORMANCE OF HYDROCHEESE AS ARTIFICIAL CORAL REEF Daeng Siti Maimunah Ishak (UTM)

1030-1045	BOTTOM ONSHORE ADVECTION OF UPWELLING WATER INTO THE COASTAL OF EAST COAST PENINSULAR MALAYSIA Nur Hidayah Roseli (UMT)	SUSTAINABLE SEAFOOD CONSUMPTION AMONG GENERATION Y IN MALAYSIA Marhana Mohamed Anuar (UMT)	SETTLEMENT RATE OF FOULING SERPULID <i>FICOPOMATUS cf. USCHAKOVI</i> PILLAI, 1960 AT SETIU WETLANDS, TERENGGANU, MALAYSIA Noor Shahida Rosli (UMT)
1045-1100	Refreshment		
Session 5: Plenary 4 (BERLIAN HALL) and Parallel Scientific Sessions			
1100-1130	Plenary 4 by Renee Teo Yong Yin Bruker Malaysia Sdn. Bhd. TITLE: ANALYSIS OF MICROPLASTICS USING FTIR		
	Session 5A (BERLIAN HALL) Subsurface Mapping and Survey	Session 5B (ZAMRUD HALL) Paleo-Oceanography and Marine Geochemistry	Session 5C (NILAM HALL) Marine Ecological Resilience
1130-1145	SIDE SCAN SONAR APPROACHES IN DETECTION AND MAPPING OF ARTIFICIAL REEFS DISTRIBUTION AT THE EAST COAST OF PENINSULAR MALAYSIA Azizi Ali (UMT)	HEAVY METALS DISTRIBUTION AND TREND IN THE SURFACE SEABED SEDIMENTS OF THE MALAYSIA OFFSHORE Abdullah Sulaiman (JMG)	PRESENCE OF FUNGAL PATHOGENS AT NESTING SITES OF THE ENDANGERED SEA TURTLE SPECIES <i>Chelonia mydas</i> IN CHAGAR HUTANG, REDANG ISLAND, TERENGGANU. Siti Nordahliawate Mohamed Sidique (UMT)
1145-1200	ASSESSING SIDE MOUNTED SIDE SCAN SONAR PERFORMANCE IN SHALLOW WATER CORAL REEF MAPPING Raihanah Rusmadi (UTM)	VERTICAL PROFILE AND DIVERSITY OF CALCAREOUS FORAMINIFERA IN KELANTAN-TERENGGANU WATERS Aishah Norashikin (UMT)	THE EFFECTS OF SEAWATER TEMPERATURE VARIATIONS ON THE BLEACHING SUSCEPTIBILITY OF ACROPORA LATISTELLA Sue Lynn Teoh (UMT)
1200-1215	ASSESSING THE PERFORMANCE OF MULTIBEAM ECHOSOUNDER SONAR FOR SEAGRASS DISTRIBUTION MAPPING Muhammad Abdul Hakim Muhamad (UTM)	SEDIMENT CHARACTERISTIC OF THE BLOOD COCKLE FARMS IN SELANGOR Noran Alwakhir Bin Shaarani (JMG)	BIODIVERSITY OF CORAL REEF FISH IN PULAU BIDONG, TERENGGANU, MALAYSIA Muhammad Afiq Firdaus Aminudin (UMT)

1215-1230	NATIONAL OFFSHORE SAND RESOURCE STUDY III : MARINE GEOPHYSICAL SURVEY OFF THE COAST OF PAHANG Mohd. Rais Ramli (JMG)	PALEOPRODUCTIVITY OF SELECTED AREA IN TERENGGANU OFFSHORE DURING HOLOCENE Erick Naim (UMT)	FISH FARMING AND ITS IMPLICATIONS ON TAXONOMIC DIVERSITY OF BENTHIC ORGANISMS IN SETIU WETLAND, MALAYSIA Wan Mohd Rauhan Wan Hussin (UMT)
1230-1245	LONGITUDINAL STUDY OF N COMPOUNDS DURING FLOOD NEAP AND SPRING TIDES IN TERENGGANU RIVER ESTUARY, MALAYSIA Suhaimi Suratman (UMT)	THE CLASSIFICATION AND DISTRIBUTION OF SURFACE SEABED SEDIMENT IN THE ONE FATHOM BANK (OFB) AND ITS SURROUNDS, OFF PORT KLANG, SELANGOR. Amin Noorasid Abdul Jaill (JMG)	FISHES OF ANCIENT SHIP WRECK OF PULAU BIDONG, TERENGGANU, MALAYSIA Yusri Yusuf (UMT)
1245-1315	Poster Session		
1315-1430	Lunch/Solat Break		
Session 6: Plenary 5 (BERLIAN HALL) and Parallel Scientific Sessions			
1415-1445	Plenary 5 by Assoc. Prof Dr. Mohd Fadzil Mohd Akhir Institute of Oceanography and Environment, Universiti Malaysia Terengganu TITLE: UPWELLING, THERMAL FRONT AND THE INFLUENCE OF ENSO VARIABILITY IN THE SOUTHERN SOUTH CHINA SEA.		
	Session 6A (BERLIAN HALL) Chemical Seasonal Variability and Changes	Session 6B (ZAMRUD HALL) Marine Geochemistry	Session 6C (NILAM HALL) Diverse Dynamics and Seasonality in Coastal Areas
1445-1500	SEASONAL VARIATION OF FOOD SOURCES AND FORAGING HABITS OF FISH IN MANGROVE-SEAGRASS CONTINUA FROM THE TROPICAL LAGOON ASSESSED BY STABLE ISOTOPE ANALYSES Dung Le Quang (UMT)	SEDIMENTOLOGY AND GEOMORPHOLOGY ANALYSIS OF SELECTED COASTAL AREA IN ALONG PANTAI CAGAR HUTAN, KERTEH, TERENGGANU: MONSOONAL EFFECTS ON THE COASTAL SEDIMENTS AND BEACH MORPHOLOGY Mohamad Shaufi Sokiman (UTP)	SANDBAR DEPOSITION AS CONSEQUENCE OF COASTAL ARMOURING ALONG TOK JEMBAL, TERENGGANU, MALAYSIA Muhammad Syakir Zufayri Zulfakar (UMT)
1500-1515	SPATIAL AND TEMPORAL VARIATION OF TOTAL MERCURY IN MANGROVE ECOSYSTEM FROM SETIU LAGOON Siau Yin Fui (UMT)	GEOMORPHOLOGIC CHANGES OF HOLOCENE PALAEO PAHANG RIVER, MALAYSIA Yee Hui Kong (UMT)	INFLUENCES OF EL NINO-SOUTHERN OSCILLATION AND INDIAN OCEAN DIPOLE ON SST VARIABILITY IN THE STRAIT OF MALACCA AND ANDAMAN SEA USING REMOTE SENSING DATA Noor Suhadah Muhamad Isa (UMT)

1515-1530	DISTRIBUTION OF PHYTOPLANKTON IN KUANTAN PORT DURING NORTHEAST MONSOON SEASON Amir Safwan (IIUM)	MONITORING SEDIMENT TRANSPORT USING RARE EARTH ELEMENTS IN PERMATANG SEDEPA AREA Noor Akhmar Kamarudin (JMG)	PREDICTION FATE OF MICROPLASTICS CARRIED BY SURFACE CURRENTS: A LAGRANGIAN MODEL APPROACH IN SOUTH CHINA SEA Syafinaz Ameera Zainal (UMT)
1530-1545	VERTICAL AND HORIZONTAL DISTRIBUTION OF NUTRIENTS CONCENTRATION DURING SOUTHWEST MONSOON IN THE KELANTAN AND TERENGGANU WATERS Azyyati Abdul Aziz (UMT)	RARE EARTH ELEMENTS (REE) DISTRIBUTION CHARACTERISTICS IN DISSOLVED AND PARTICULATE PHASE AND IN SEDIMENT OF BRUNEI BAY, BORNEO Noor Azhar Mohamed Shazili (UMT)	CONTROLS OF DAILY HYDRODYNAMIC CHANGES IN SHALLOW WATER LAGOON Zuraini binti Zainol (UMT)
1545-1600	RECENT BENTHIC FORAMINIFERAL ASSEMBLAGES IN THE SHALLOW WATER OF KELANTAN-TERENGGANU Nazihah Azmi (UMT)	ECOLOGICAL RISK ASSESSMENT OF HEAVY METAL POLLUTION OF COASTAL SURFACE SEDIMENT IN TERENGGANU. Nor Bakhiah Baharim (UMT)	TRANSPORTATION AND DEPOSITION OF SURFACE SEDIMENT IN KELANTAN AND TERENGGANU COAST Nurul 'Ain Baruddin (UMT)
1600-1615		DISTRIBUTION AND SOURCES OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) IN COASTAL SURFACE SEDIMENTS OFF TERENGGANU COAST Mohd Mursyid Mohd Sanip (UMT)	REVIEW OF CURRENT CIRCULATION STUDIES IN THE MALACCA STRAIT Ku Nor Afiza Asnida Ku Mansor (UMT)
1615-1630	Arrival of VIPs		
1630	Closing Ceremony		
1645	Refreshment and End of Symposium		

Poster Sessions

NO.	NAME	ABSTRACT TITLE
Poster Session I Tuesday, 30 October 2018 (12.45-13.15)		
1	Syazana Md Shubri (UMT)	INFLUENCE OF COASTAL EROSION AFFECTED ON POPULATION DENSITIES IN KUALA NERUS, TERENGGANU (MALAYSIA)
2	Nik Munirah Nik Fuad (UMT)	MALAYSIA IN VENTURING INTO THE DEEP SEABED MINING INDUSTRY: THE OBSTACLES AND POSSIBILITIES
3	Afifi Johari (UMT)	WATER TEMPERATURE CHARACTERISTICS AND VARIATIONS IN SOUTHERN SOUTH CHINA SEA FROM 60 YEARS DATA OF WORLD OCEAN DATABASE
4	Zainudin Bachok (UMT)	BENTHIC HABITAT MAPPING OF PULAU PAYAR MARINE PARK (PPMP) USING MULTIBEAM ECHOSOUNDER (MBES)
5	Zainudin Bachok (UMT)	CHANGES OF FATTY ACID COMPOSITION IN SCLERACTINIAN CORAL, <i>Galaxea fascicularis</i> (LINNAEUS, 1767) AFTER SHORT TERM (96 HOURS) EXPOSURE OF IRGAROL-1051
6	Nik Nurhazirah Nik Omar (UMT)	MARINE SPATIAL PLANNING: A WAY FORWARD IN THE SUSTAINABLE MANAGEMENT OF THE TERENGGANU MARINE PARKS
7	Muzzneena Ahmad Mustapha (UKM)	DETECTION OF MATANG MANGROVE FOREST SHORELINE CHANGES USING SATELLITE DATA
8	Noor Aznaini Mohd Daud (UMT)	TOXICITY OF SELENATE (SeO ₄) AND SELENITE (SeO ₃) AT DIFFERENT LIFE STAGES OF NON-BITING MIDGE, CHIRONOMUS KIIENSIS
Poster Session II Wednesday, 31 October 2018 (12.45-13.15)		
9	Tukimat Lihan (UKM)	SPATIAL AND TEMPORAL VARIABILITY OF ENDAU RIVER PLUME
10	Nur Syazwani (UMT)	DISTRIBUTION OF OPTIMALLY PRESERVED BENTHIC FORAMINIFERAL TESTS IN PULAU BIDONG, TERENGGANU, MALAYSIA.
11	Abdullah Sulaiman (JMG)	PALAEOCHANNEL MORPHOLOGY AND DISTRIBUTIONS IN THE STRAITS OF MALACCA DURING THE LAST GLACIAL MAXIMUM
12	Masni Mohd Ali (UKM)	SOURCES AND COMPOSITION OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) IN THE RIVER AND ESTUARY SEDIMENT OF KUALA KEDAH VICINITY, MALAYSIA
13	Nur Amalina Ahmad Rizal (UMT)	SPECIES COMPOSITION AND DIVERSITY OF MACROFOULING ASSEMBLAGES ASSOCIATED TO TROPICAL OYSTER (<i>Magallana billineata</i>) IN BRACKISH WATER OF SETIU WETLANDS
14	Nurulafifah Yahya (UMT)	TAXONOMIC CLASSIFICATION OF MANGROVE CLAMS IN A MALAYSIAN MANGROVE SYSTEM OF SOUTH CHINA SEA
15	Khyril Syahrizan bin Husain (UMT)	COASTAL MESOZOOPLANKTON IN CORAL REEFS ECOSYSTEM, THEIR BIODIVERSITY, SPATIAL AND MONSOONAL DISTRIBUTION
16	Mahirah Kamaludin (UMT)	ECONOMIC VALUATION OF SEA TURTLE CONSERVATION IN TERENGGANU, MALAYSIA

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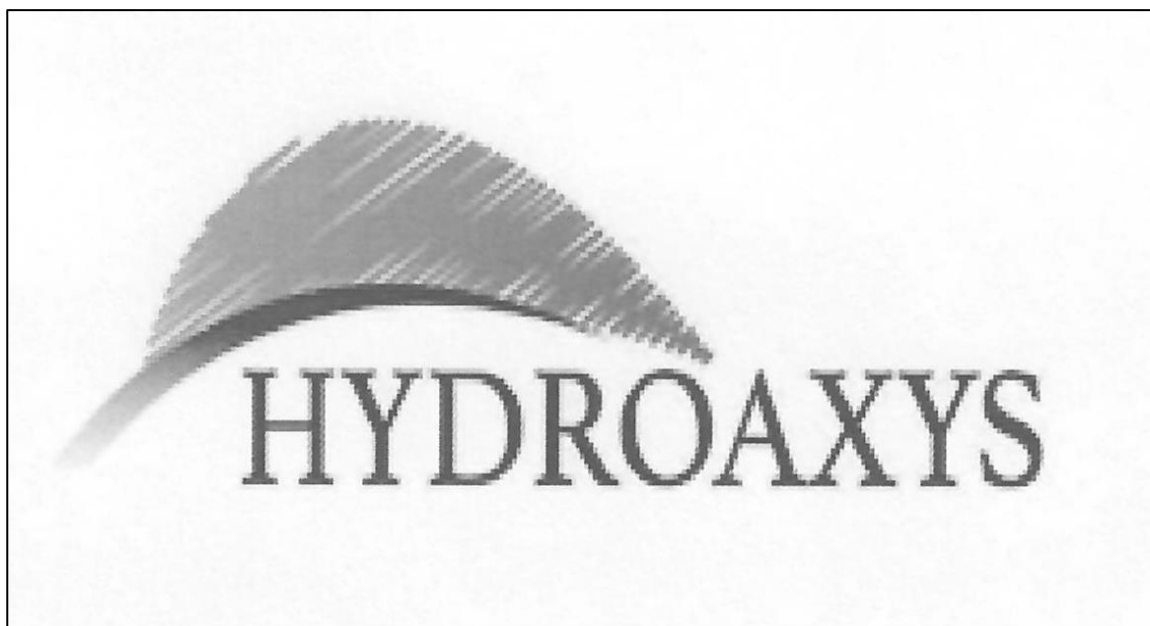
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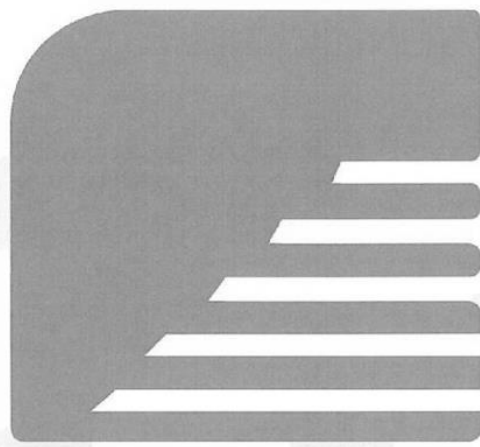




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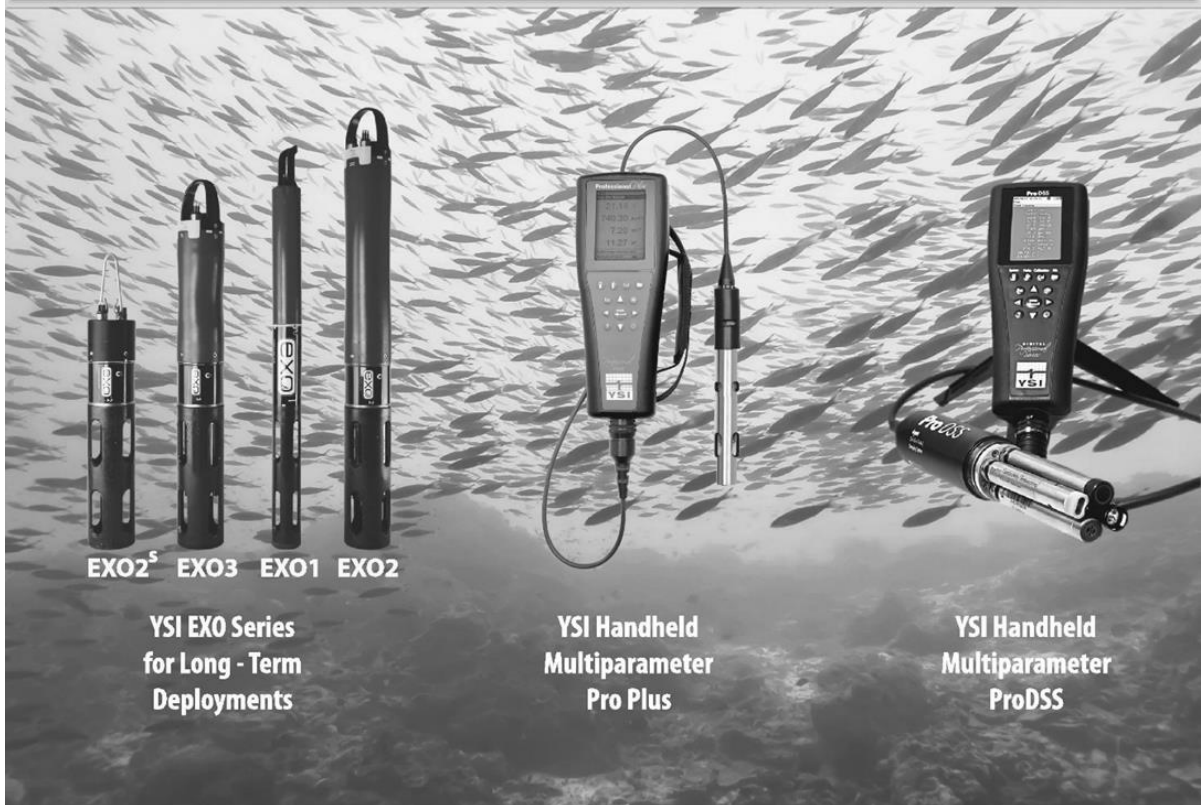


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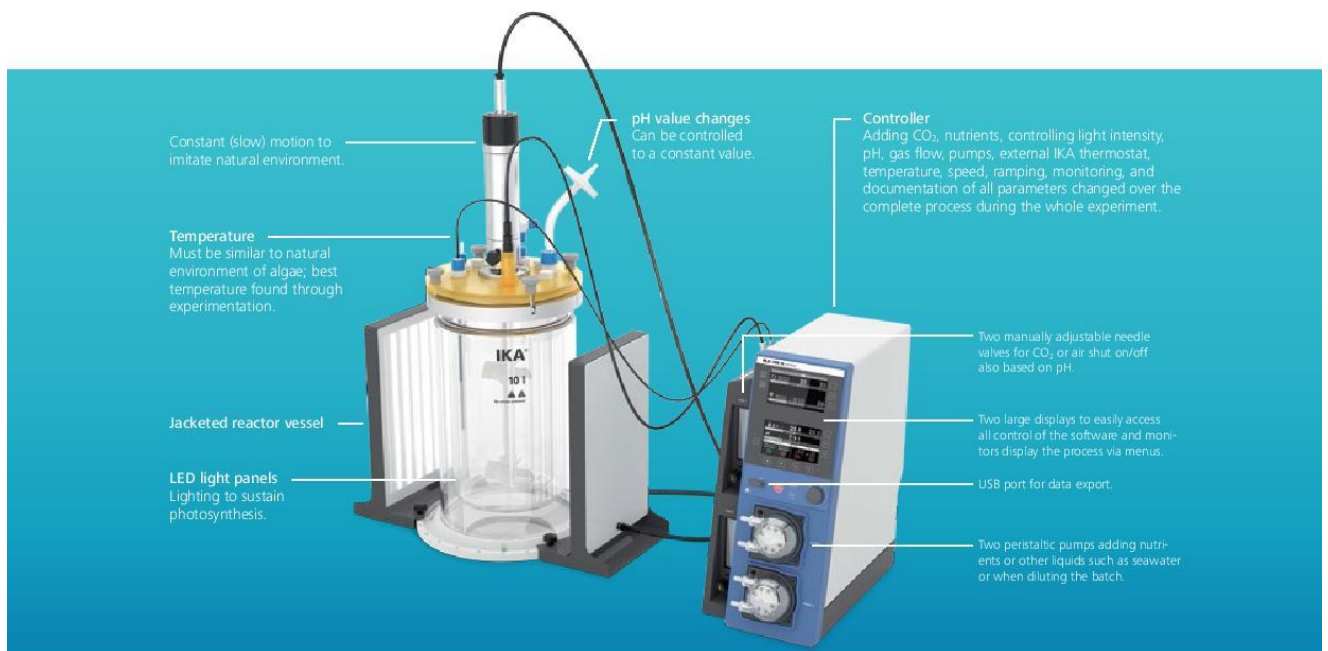
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