

Development of PHD Research Framework



INOS

INSTITUTE OF
OCEANOGRAPHY
AND ENVIRONMENT

Marine Coastal and Delta Sustainability
for Southeast Asia



Co-funded by the
Erasmus+ Programme
of the European Union

Offer letter for PhD works

PhD Candidate:
Afifi bin Johari

Research Topic;
*The Dynamics of South China Sea
Western Boundary Current and its
upwelling variability*



Rujukan Kami : UMT/PPAK/IT/1-8/4/5 (930217146889)
Tarikh : 07-Apr-21

AFIFI BIN JOHARI
P1 5411 Jalan Ts 2/6c
Taman Semarak 2
71800 Nilai
Negeri Sembilan Malaysia

Tuan/Puan,

TAWARAN KEMASUKAN KE PROGRAM PENGAJIAN PASCASISWAZAH UNIVERSITI MALAYSIA TERENGGANU (UMT)

Sukacita dimaklumkan bahawa tuan/puan ditawarkan untuk mengikuti program Pengajian Pascasiswazah Universiti Malaysia Terengganu:

Program	: Doktor Falsafah
Struktur Program	: Penyelidikan
Bidang Utama	: SAINS BUMI
Sub Bidang Pengajian	: OSEANOGRAFI (FIZIKAL OSEANOGRAFI)
Pusat Pengajian/Institut	: Institut Oseanografi Dan Sekitaran
Penyelia Utama	: Profesor Madya Dr Mohd Fadzil Bin Mohd Akhir
Penyelia Bersama	:
Semester Kemasukan	: SEM 2, 2020/21
Status Tawaran	: Penuh
Status Pengajian	: Sepenuh Masa
Dokumen Sokongan	: Sila rujuk Lampiran A
Yuran Pengajian	: Sila rujuk Lampiran B
Tempoh Pengajian	: 4 Semester (Minimum) - 10 Semester (Maksimum)

Sesi pendaftaran pelajar adalah seperti berikut:

Tarikh/Hari	: 21 MAC 2021 (Ahad) - 13 JUN 2021 (Ahad)
Masa	: 9.00 pagi - 3.00 petang
Tempat	: Cara Pendaftaran: Jarak Jauh (emel dokumen yang dinyatakan pada surat tawaran kepada



Supervisor and Profile

- Assoc. Prof. Dr. Mohd Fadzil holds the position as a Director in Institute of Oceanography and Environment in UMT. Dr. Mohd Fadzil's research interests are in coastal physical oceanography, with emphasis on field observation and numerical modeling. He has played an active role in examining the southern south china sea, particularly in terms of ocean currents, wind, wave and its water masses. The most important aspect of his study is the recent findings of upwelling system along the east coast of Peninsular Malaysia. Involvement with number of a research project under the IOC/WESTPAC has allow him to establish regional networks and leads the Upwelling research group that consists of regional expert that focusing on establishing constructive information on upwelling sites within South China Sea. So far he is leading a major research project between Malaysia and China which is the Ocean Forecasting System (OFS) for the South China Sea. Through this project, his team has established MFAST (Malaysia Marine Forecast) to provide open access forecast to industry and community. He has recently been awarded the highest-ranking national grant scheme, a Long Term Research Grant (LRGS), to conduct research on Ocean Climate change. The project will focus on the long term impact of climate change on ocean processes and productivity toward Malaysia waters.

Past and present
related research
topics relevant
to the PhD work;

Interaction of ocean dynamics with the climate system of past, present and future using ocean observation integrated data and numerical modeling, National Resreach Grant (LRGS-2020, ongoing)

Development of Integrated System of Ocean Forecasting and Observation Network in Malaysia Waters of Southern South China Sea (Ministry of Science and Technology Grant -2018, completed)

Upwelling studies through ocean data integration towards sustaining ocean health and productivity (IOC-Westpac, 2015-ongoing)



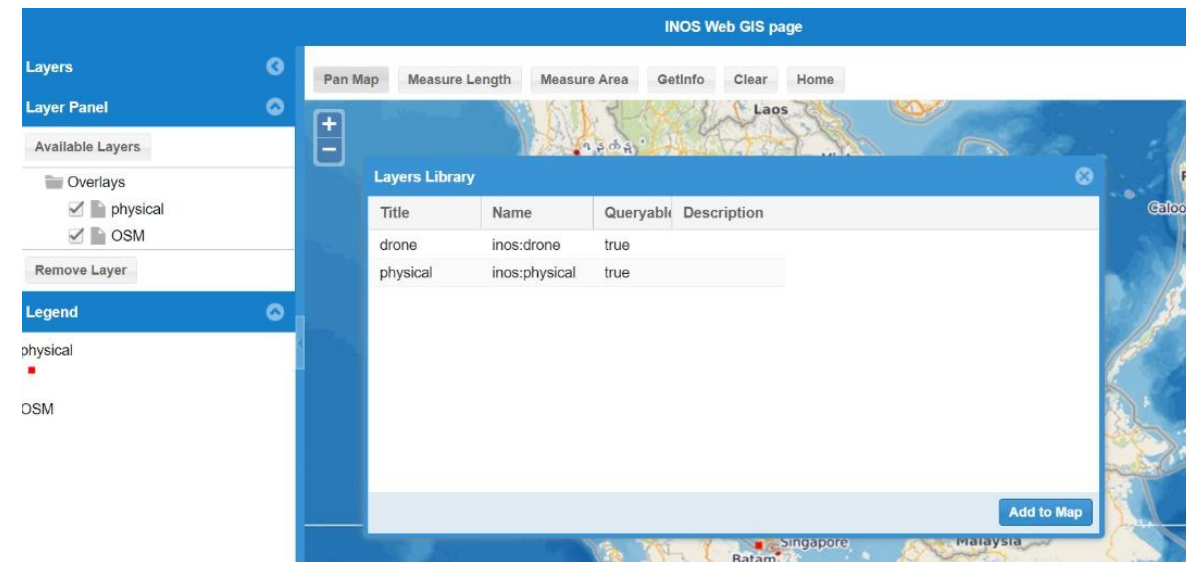
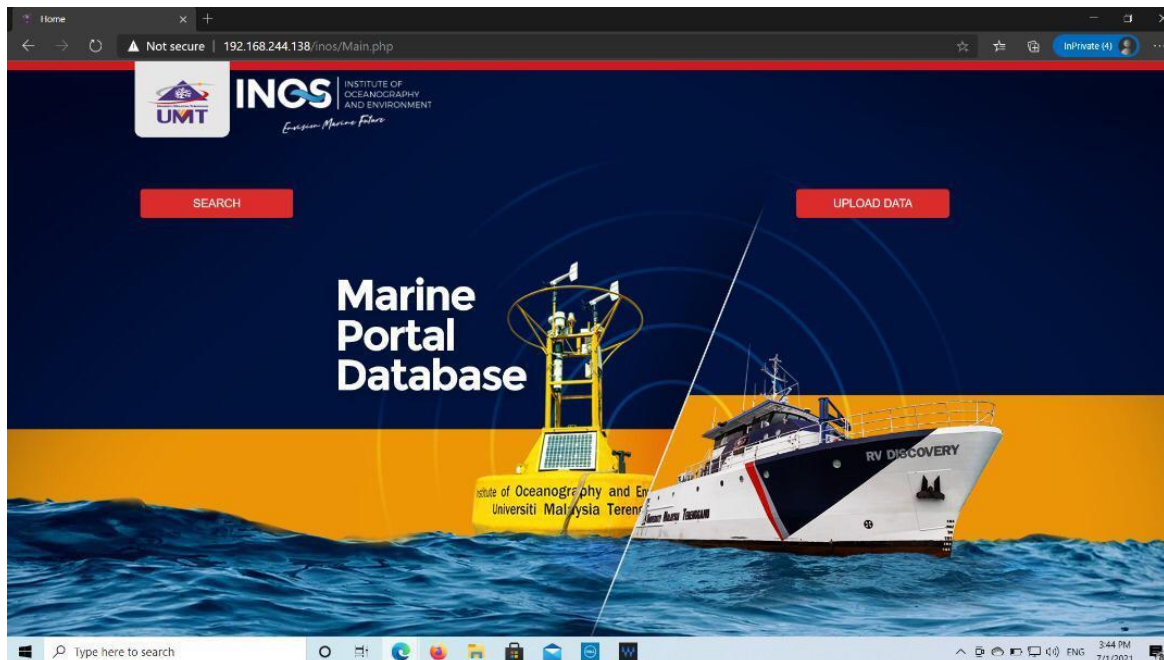
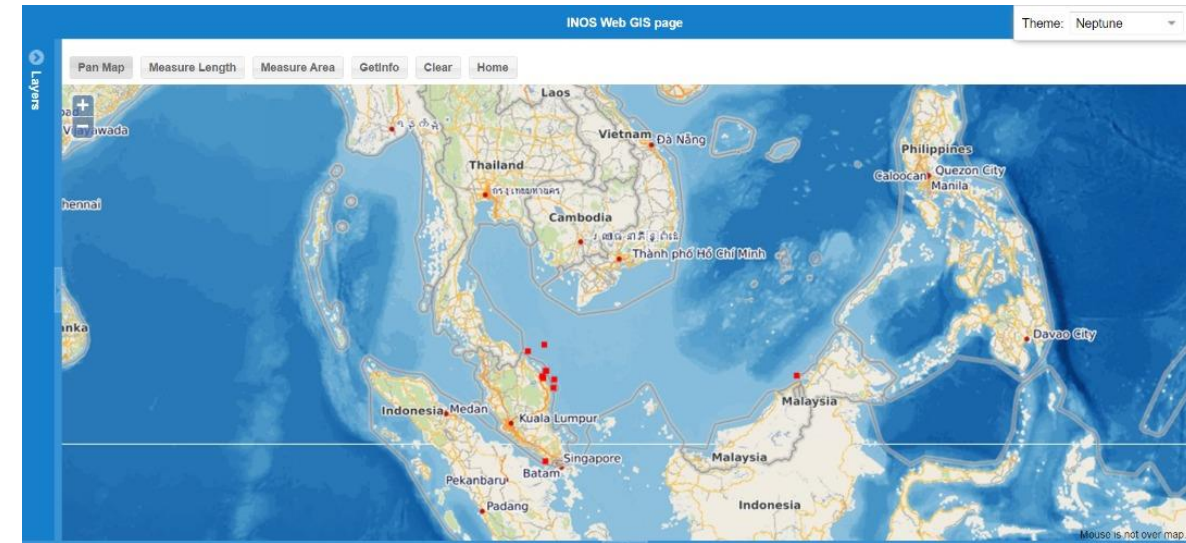
Conferences and workshop

- IOC-Westpac Marine Science Symposium, August 2022, Bangkok
- Tropical Ocean and Marine Symposium, October 2022, Kuala Terengganu
- Summer School MARE, UTP, 2021

Scientific Resources (e-science tools)

INOS Marine Portal Database

- This database is maintain in house
- It will be used as the main data analysis for PhD students



Malaysia Marine Forecast System (MFAST)



5-days prediction of Current, Wind, Wave and Temperature data