


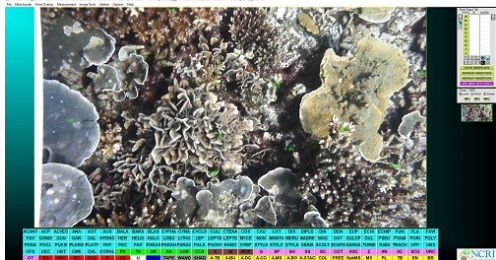

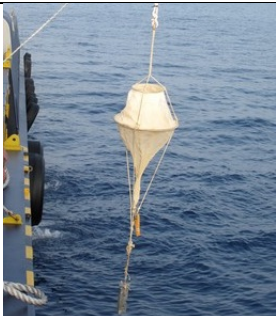







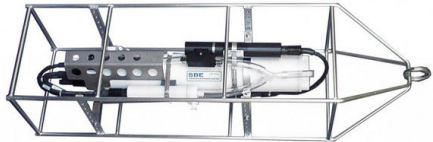









EQUIPMENT AND FACILITIES AT UNIVERSITI MALAYSIA TERENGGANU FOR COLLABORATIVE USE TO URGENT PARTNERS

No	Equipment	Technical specification	Purpose	Quantity	Photo
Biological Oceanography & Biodiversity Laboratory					
1.	Rosette Water Sampler	~	Field study Research	1	
2.	Diving Pump Fluorometer	This equipment is a robust chlorophyll flurometer that can be used to study the photosynthesis in any aquatic body.	Field study Research	1	
3.	Scuba Equipment	Multiple Sets of Scuba diving equipments can be used to assist underwater study in the field	Field study Research	1	
4.	YSI Coral Point Count with Excel (CPCe)	The equipment and software package designed for the analysis of digital photographs of benthic habitats, particularly coral reefs. The main function of CPCe is to provide a quantitative assessment of the abundance, diversity, and spatial distribution of benthic organisms within an image.	Field study Research	1	

5.	UV Vis Spectrometer	A UV-Vis spectrophotometer is a scientific instrument that measures the absorbance or transmission of light in the ultraviolet (UV) and visible (Vis) regions of the electromagnetic spectrum. The main function of a UV-Vis spectrophotometer is to provide quantitative information about the concentration of a sample based on its absorbance or transmittance properties	Laboratory	1	
6.	Plankton Net	The plankton net can be used for plankton sample collection in water column	Field study Research	1	
Chemical Oceanography & Marine Pollution Laboratory					
7.	Inductively Couple Plasma Mass Spectrometry (ICPMS)	Inductively Coupled Plasma Mass Spectrometry (ICPMS) is a powerful analytical technique that is used to determine the elemental composition of a sample. ICPMS combines two techniques - Inductively Coupled Plasma (ICP) and Mass Spectrometry (MS) - to achieve high levels of sensitivity and accuracy.	Laboratory	1	
8.	Gas Chromatography Flame Ionization Detector (GC-FID)	The Gas Chromatography Flame Ionization Detector (GC-FID) is a widely used analytical instrument in chemistry and chemical engineering. It is used to separate, identify, and quantify organic compounds based on their chemical properties and concentration in a sample.	Laboratory	1	
9.	Ion Chromatography (IC)	Ion Chromatography (IC) is a powerful analytical technique used to separate, identify, and quantify ions in a sample.	Laboratory	1	

10.	Mercury Analyzer	The mercury analyzer is used to determine mercury concentrations in liquid and solid samples	Laboratory		
Physical & Geological Oceanography Laboratory					
11.	Current Meter (Valeport 308)	This instrument, measuring speed & direction as standard, with optional conductivity, temperature & depth.	Field study Research	1	
12.	Multiparameter YSI	Water quality monitoring equipment with simultaneous measurement of conductivity (salinity), temperature, depth and pH	Field study Research	1	
13.	ADCP (SonTek)	Instrumentation for water velocity	Field study Research	1	
14.	CTD (SeaBird)	The SBE 19plus V2 SeaCAT measures conductivity, temperature, and pressure at 4 scans/sec (4 Hz) and provides high accuracy and resolution, reliability, and ease-of-use for a wide range of research, monitoring, and engineering applications	Field study Research	1	
15.	Tide Gauge	Record the height of the surrounding water level	Field study Research	1	
16.	Hydrolab	Multiparameter sondes for the measurement of water quality	Field study Research	1	

17.	Land Survey Equipment (Topcon)	Instruments used for detailed area surveying	Field study Research	1	
18.	FlowTracker	The FlowTracker Handheld-ADV® (Acoustic Doppler Velocimeter) measures 2D or 3D currents, attaches easily to wading rods, and features an automatic discharge computation using a variety of international methods, including ISO and USGS standards.	Field study Research	1	
19.	Sub Bottom Profiler	Identify and measure various marine sediment layers that exist below the sediment/water interface.	Field study Research	1	
20.	Side Scan Sonar (Geo Acoustic)	Side Scan Sonar (SSS) is an underwater imaging technology that uses sound waves to create detailed images of the seafloor. The SSS instrument emits a high-frequency sound pulse that travels through the water and reflects off the seafloor. The reflected signal is then received by the instrument and used to create an image of the seafloor.	Field study Research	1	
21.	AWAC (Nortek)	The AWAC (Acoustic Wave and Current) instrument by Nortek is an oceanographic measurement instrument that uses acoustic waves to measure ocean currents and waves.	Field study Research	1	

Bidong Island Research Station

The Bidong Island is a small, uninhabited island located off the coast of Terengganu, Malaysia. The island has been used as a research station for marine and environmental research since the 1980s, particularly for studies related to coral reefs, marine biodiversity, and fisheries. It takes approximately 2 hours to reach Bidong Island from Universiti Malaysia Terengganu. Here at the island various facilities including small halls, dormitories and chalet are available for use.



Terms of use:

Under the cooperation agreements all equipment and facilities for study and research are provided at no charge

Payment for consumables is a subject to additional agreement on a case-by-case basis

Payment for food and accommodation at summer camp

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