

**NF – POGO VISITING PROFESSORSHIP PROGRAM**  
**CAPACITY BUILDING FOR SOUTH EAST ASIA OCEAN COLOUR NETWORK**  
**Title of training course “The Application of Ocean Colour Remote Sensing for Study of Marine and Coastal Processes and related Bio-Resources”**

<b>Date</b>	<b>Item</b>	<b>Presentation</b>	<b>Charge of Class</b>
<b>Sunday 18 Sep</b>	Instructors and Trainees arriving Nha Trang		
<b>Monday 19 Sep</b>			
8h - 9h	Opening Ceremony, Introduction, taking the photographs		All
9h – 9h15	Coffee break		
9h15 – 11h30	The operational use of remote sensing and marine-GIS for sustainable fisheries and aquaculture	Theory	Prof. Sei Ichi Saitoh
11h30-13h30	Lunch		
13h30 – 15h15	The operational use of remote sensing and marine-GIS for sustainable fisheries and aquaculture (cont.)	Theory	Prof. Sei Ichi Saitoh
15h15-15h30	Coffee break		
15h30-17h30	Introduction of Trainees		Trainees
19h	Welcome party		All
<b>Tuesday 20 Sep</b>			
8h – 9h30	TOREDAS system (Traceable and Operational Resource and Environment Data Acquisition System) for forecasting the fishery domains (include squid, Pacific saury, Skipjack tuna and Albacore tuna) in Japanese Sea	Theory	Prof. Sei Ichi Saitoh
9h30– 9h45	Coffee break		
9h45-11h30	TOREDAS system (Traceable and Operational Resource and Environment Data Acquisition System) for forecasting the fishery domains (include squid, Pacific saury, Skipjack tuna and Albacore tuna) in Japanese Sea (cont.)	Theory	Prof. Sei Ichi Saitoh
11h30-13h30	Lunch		
13h30 – 15h30	TOREDAS system (Traceable and Operational Resource and Environment Data Acquisition System) for forecasting the fishery domains (include squid, Pacific saury, Skipjack tuna and Albacore tuna) in Japanese Sea	Theory	Prof. Sei Ichi Saitoh
15h30-15h45	Coffee break		
15h45 – 18h	TOREDAS system (Traceable and Operational Resource and Environment Data Acquisition System) for forecasting the fishery domains (include squid, Pacific saury, Skipjack tuna and Albacore tuna) in Japanese Sea (cont.) General Discussion	Theory	Prof. Sei Ichi Saitoh
<b>Wed. 21 Sep.</b>			
8h – 9h30	Ocean color Remote sensing techniques for detection of Harmful Algae Bloom	Theory	Prof. Joji Ishizaka
9h30– 9h45	Coffee break		

9h45-11h30	Ocean color Remote sensing techniques for detection of Harmful Algae Bloom (cont.)	Theory	Prof. Joji Ishizaka
11h30-13h30	Lunch		
13h30 – 15h30	Red Tide Observation in Japan: Case Study in Ariake Bay (cont.)	Theory	Prof. Joji Ishizaka
15h30-15h45	Coffee break		
15h45 – 18h	Red Tide Observation in Japan: Case Study in Ariake Bay	Theory	Prof. Joji Ishizaka
<b>Thursday 22 Sep</b>			
8h – 9h30	Phytoplankton community structure; modeling and satellite observation. Part 1	Theory	Dr. Taka Hirata
9h30– 9h45	Coffee break		
9h45-11h30	Phytoplankton community structure; modeling and satellite observation. Part 1 (cont.)	Theory	Dr. Taka Hirata
11h30-13h30	Lunch		
13h30 – 15h30	Phytoplankton community structure; modeling and satellite observation. Part 2	Theory	Dr. Taka Hirata
15h30-15h45	Coffee break		
15h45 – 18h	Phytoplankton community structure; modeling and satellite observation. Part 2 (cont.) General Discussion	Theory	Dr. Taka Hirata
<b>Friday 23 Sep</b>			
8h – 9h30	Environmental Monitoring in the field: Parameters and Methods for Optical Monitoring and case study of Katagami bay	Theory	Prof. Joji Ishizaka
9h30– 9h45	Coffee break		
9h45-11h30	Environmental Monitoring in the field: Parameters and Methods for Optical Monitoring and case study of Katagami bay (cont.)	Theory	Prof. Joji Ishizaka
11h30-13h30	Lunch		
13h30 – 15h30	Remote sensing application for monitoring and assessment of eutrophication in the NOWPAP region	Theory	Prof. Joji Ishizaka
15h30-15h45	Coffee break		
15h45 – 18h	Remote sensing application for monitoring and assessment of eutrophication in the NOWPAP region (cont.) General Discussion	Theory	Prof. Joji Ishizaka
<b>Saturday 24 Sep</b>			
<b>Sunday 25 Sep</b>			
<b>Monday 26 Sep</b>			
8h – 9h30	Potential and realistic of application of remote sensing in Vietnam	Theory	Tong P H Son
9h30– 9h45	Coffee break		
9h45-11h30	Remote sensing for detection of coral reefs, sea grass beds and other coastal habitats	Theory	Tong P H Son
11h30-13h30	Lunch		
13h30 – 15h30	Coral reefs mapping: theory and processing procedure.	Theory and Practice	Tong P H Son
15h30-15h45	Coffee break		
15h45 – 18h	Coral reefs mapping: theory and processing	Theory and	Tong P H Son

	procedure. (cont.)	Practice	
<b>Tuesday 27 Sep</b>			
8h – 9h30	Practice for data processing for coral reefs mapping (and sea grass, sea weed beds as well)	Practice	Trainees
9h30– 9h45	Coffee break		
9h45-11h30	Practice for data processing for coral reefs mapping (and sea grass, sea weed beds as well) (cont.)	Practice	Trainees
11h30-13h30	Lunch		
13h30 – 15h30	Fusion techniques and their applications.	Practice	Tong P H Son
15h30-15h45	Coffee break		
15h45 – 18h	GapFill Tool for Landsat ETM+ imageries	Practice	Tong P H Son
<b>Wed. 28 Sep</b>			
8h – 9h30	Practice for data processing in ENVI Software: Fusion techniques and their applications.	Practice	Trainees
9h30– 9h45	Coffee break		
9h45-11h30	Practice for data processing in ENVI Software: Fusion techniques and their applications. (cont.)	Practice	Trainees
11h30-13h30	Lunch		
13h30 – 15h30	Remote sensing for detection chlorophyll-a in coastal water of Vietnam from high resolution image (experience and orientation)	Theory	Tong P H Son
15h30-15h45	Coffee break		
15h45 – 18h	Remote sensing for study on bio oceanography processes occur in Tidal Flats of Mekong Delta.	Theory	Tong P H Son
<b>Thursday 29 Sep</b>			
8h – 9h30	Primary production: measuring and estimating practices – Case study in Nha Trang Bay.	Practice	Phan Minh Thu
9h30– 9h45	Coffee break		
9h45-11h30	Primary production: measuring and estimating practices – Case study in Nha Trang Bay. (cont.)	Practice	Phan Minh Thu
11h30-13h30	Lunch		
13h30 – 15h30	Working groups Trainees presentations		Trainees
15h30-15h45	Coffee break		
15h45 – 18h	Working groups Trainees presentations (cont.)		Trainees
<b>Friday 30 Sep</b>			
8h – 9h30	Working groups Trainees presentations		Trainees
9h30– 9h45	Coffee break		
9h45-11h30	Working groups Trainees presentations (cont.)		Trainees
11h30-13h30	Lunch		
13h30 – 15h30	Working groups Trainees presentations		Trainees
15h30-15h45	Coffee break		
15h45 – 18h	Working groups Trainees presentations (cont.)		Trainees
<b>Saturday 1 Oct</b>	Field Trip - Culture Interchange		

<b>Sunday 2 Oct</b>	Holiday – Free time		
<b>Monday 3 Oct</b>			
8h – 9h30	Introduction on Ocean color Remote sensing techniques for marine study	Theory	Prof. Matsumura
9h30– 9h45	Coffee break		
9h45-11h30	Introduction on Marine of Optics	Theory	Prof. Matsumura
11h30-13h30	Lunch		
13h30 – 15h30	Ocean color remote sensing in forecast the fishery school with case study in Japanese Sea Introduction on Marine of Optics PRR data processing	Theory	Prof. Matsumura
15h30-15h45	Coffee break		
15h45 – 18h	Ocean color remote sensing in forecast the fishery school with case study in Japanese Sea Introduction on Marine of Optics PRR data processing (cont.)	Theory	Prof. Matsumura
<b>Tuesday 4 Oct</b>			
8h – 9h30	PRR data processing Working group	Pratice	Prof. Matsumura
9h30– 9h45	Coffee break		
9h45-11h30	PRR data processing Working group (cont.)	Pratice	Prof. Matsumura
11h30-13h30	Lunch		
13h30 – 15h30	Working group General Disscusion	Pratice	Prof. Matsumura
15h30-15h45	Coffee break		
15h45 – 18h	Working group General Disscusion (cont.)	Pratice	Prof. Matsumura
<b>Wed. 5 Oct</b>			
8h – 9h30	Identification and characterization of ancient photosynthetic bacteria in the ocean	Theory	Prof. Gerry Plumley
9h30– 9h45	Coffee break		
9h45-11h30	Identification and characterization of ancient photosynthetic bacteria in the ocean (cont.)	Theory	Prof. Gerry Plumley
11h30-13h30	Lunch		
13h30 – 15h30	An obligately photosynthetic bacterial anaerobe from a deep-sea hydrothermal vent.	Theory	Prof. Gerry Plumley
15h30-15h45	Coffee break		
15h45 – 18h	An obligately photosynthetic bacterial anaerobe from a deep-sea hydrothermal vent. (cont.) General Disscusion	Theory	Prof. Gerry Plumley
<b>Thursday 6 Oct</b>			
8h – 9h30	Introduction to ocean data distribution system from GOCI (Geostationary Ocean Color Imager) instrument	Theory	Dr. Joo-Hyung Ryu
9h30– 9h45	Coffee break		
9h45-11h30	Introduction to ocean data distribution system from GOCI (Geostationary Ocean Color Imager) instrument (cont.)	Theory	Dr. Joo-Hyung Ryu
11h30-13h30	Lunch		

13h30 – 15h30	Monitoring of coastal and marine environment by remote sensing	Theory	Dr. Joo-Hyung Ryu
15h30-15h45	Coffee break		
15h45 – 18h	Monitoring of coastal and marine environment by remote sensing (cont.)	Theory	Dr. Joo-Hyung Ryu
<b>Friday 7 Oct</b>			
8h – 9h30	Remote sensing for study the tidal flats in study cases of Korea	Theory	Dr. Joo-Hyung Ryu
9h30– 9h45	Coffee break		
9h45-11h30	Remote sensing for study the tidal flats in study cases of Korea (cont.)	Theory	Dr. Joo-Hyung Ryu
11h30-13h30	Lunch		
13h30 – 15h30	Remote sensing for study the tidal flats in study cases of Korea (cont.)	Theory	Dr. Joo-Hyung Ryu
15h30-15h45	Coffee break		
15h45 – 18h	Remote sensing for study the tidal flats in study cases of Korea (cont.)	Theory	Dr. Joo-Hyung Ryu
19h	Farewell party		All
<b>Saturday 8 Oct</b>	Free Time		
<b>Sunday 9 Oct</b>	Free Time		
<b>Monday 10 Oct</b>			
9h	Closing ceremony		

- **Host Institute:** Institute of Oceanography (IO) – Nha Trang – Vietnam

- **Duration:** 19 September – 10 October 2011

- **International supported Institutions:**

- The Centre of Excellence in and Observational Oceanography (CofEOO)
- Nippon Foundation (NF) – Partnership for Observation of the Global Ocean (POGO)