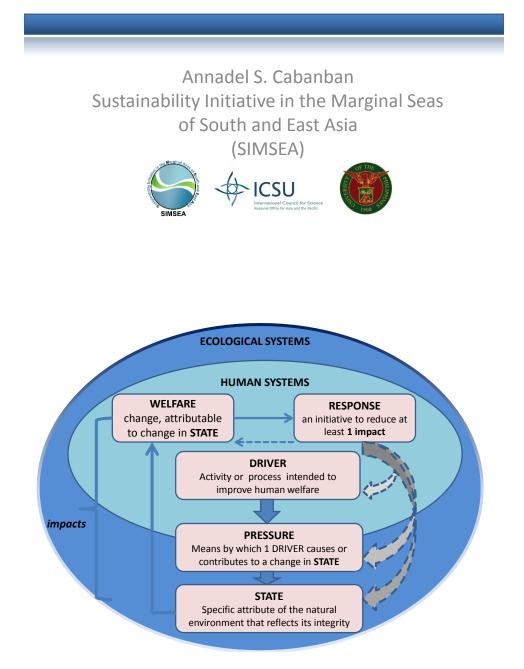
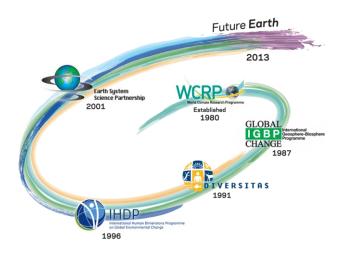
Regional and International Marine Sustainability Programs



Future Earth



Future Earth – http://www.futureearth.org

C. L. C. H.					JOIN		Q		
futurearth						FOLLOW US y f V•0			
I	esearch for globa	al sustainability				GET IN TO	JCH		
	WHO WE ARE	NEWS AND EVENTS	SCIENCE	ІМРАСТ	GET INV	OLVED	MULTI	MEDIA	
H	IOME								
١	Who we	/ho we are							
F	Future Earth is the global research platform providing the knowledge and support to accelerate our transformations to a sustainable world. Bringing together and in partnership with existing programmes on global environmental change [*] , Future Earth will be an international hub to coordinate new, interdisciplinary approaches to research on three themes: Dynamic Planet, Global Sustainable Development and Transformations towards Sustainability. It will also be a platform for				Research Projects				
					Structure and Governance				
					Science Committee				
c					Engagement Committee				
					Interim Engagement Committee				

Future Earth - themes

- A Dynamic Planet
- Global Sustainable Development
- Transformation toward Sustainability



SIMSEA – a Future Earth program

SIMSEA –

Sustainability Initiative in the Marginal Seas of South and East Asia



- **Co-design** with researchers
- Co-implement SIMSEA Alliances
- **Co-manage**: stakeholders, partners

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SIMSEA

- Regional Program, International Council for Science, Regional Office for Asia and the Pacific (ICSU ROAP)
- Memorandum of Understanding between ICSU ROAP host, Malaysia Academy of Sciences and the University of the Philippines (UP), 2014
- Based on The Marine Science Institute, UP
- http://www.simseaasiapacific.org



The marginal seas of South and East Asia

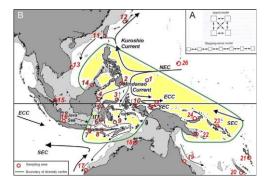


East Asia:

- East Sea
- South China Sea and Gulf of Thailand
- West Philippine Sea
- Philippine Sea
- Sulu-Sulawesi Seas
- Indonesian Sea
- Arafura-Timor Sea

South Asia:

- Andaman Sea
- Bay of Bengal



From Hoekema, B. proposal to SCOR, showing marginal seas, major currents, recommended sites for sampling for connectivity studies (yellow-shaded area is potential boundary of coral triangle (based on solitary corals)

SIMSEA Research Scoping – 2015 to 2020





Question 3 only: What topics from the list (63 topics) in Rudd, 2014 should be the focus of SIMSEA ?

RESULTS OF ON-LINE SURVEY

Top-ranked priorities for research

- Sea-level rise and vulnerable coasts 55.56
- Ocean productivity 44.44
- Coastal hazard management - 44.44
- Ocean acidification 38.89
- Biodiversity contribution to ecosystem function – 38.89
- Monitoring cumulative effects 38.89

- Adaptive capacity of marine life – 33.33 %
- Contaminants 33.33
- Science communication – 33.33



SIMSEA On-line survey – 10th ranked research topics

- 10th position
- Global biodiversity and ecological function
- Cumulative stressors
- Coastal adaptation to sealevel rise
- Local ecological knowledge
- Seafood supply chains
- Integrated uplandcoastal management (ICZM)
- Energy development



Methodology

Regional Workshop – November 2014
Session 1: ranking of research topics, by discipline (physical, ecological, socio-economic)

- Session 2: linking research topics among disciplines

- Session 3: formulating multi-disciplinary questions





XXXX

MULTI-DISCIPLINARY QUESTIONS – ALIGNED TO FUTURE EARTH THEMES



6/14/2016



1 - A DYNAMIC PLANET

SPATIAL AND TEMPORAL SCALES

What are the appropriate spatial and temporal scales in assessing ecosystems services in relation to biodiversity and food security?



TIPPING POINTS

What are the tipping points and the resilience of the marginal seas and its populations in relation to global change?





2 - GLOBAL SUSTAINABLE DEVELOPMENT



ECONOMIC GROWTH STRATEGIES

What are the consequences of different economic growth strategies for social and economic indicators and for the environment?



Global sustainable development

How to define ocean health and its indicators from the stakeholders' point of view?



Global sustainable development

How to build an ecologically coherent network of locally-managed marine areas including MPAs?





TRANSFORMATION TOWARD SUSTAINABILITY



ROLE IN GREATER OCEAN VIEW

• on Ocean View

How do stakeholders (e.g., from government to local communities; different nationalities) understand their role in the greater ocean view?



Building capabilities

• on Ocean View

What role can SIMSEA play to build capabilities of local communities and convince decision makers to work towards sustainability?

What is the role of SIMSEA in communicating this large ocean/ borderless view?



Alternative models for action

How can an appreciation of diverse visions of sustainability at the regional, national and local level translate into the identification of plausible alternative models (scenarios) for action?



cooperation and/ or conflict arising from mutually valued resources)

How do the marginal seas unite and divide communities in the region ?





SIMSEA – a Future Earth program

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Building SIMSEA Alliances

- collaboration in socio-ecological ecosystems
- SIMSEA Philippines
 - Prof. Emeritus Rhodora V. Azanza
- SIMSEA Malaysia Sabah node Prof. Fadzilah Majid Cooke
- SIMSEA in the region Indonesia, Japan, Malaysia, Philippines, and others



Collaborative partnership

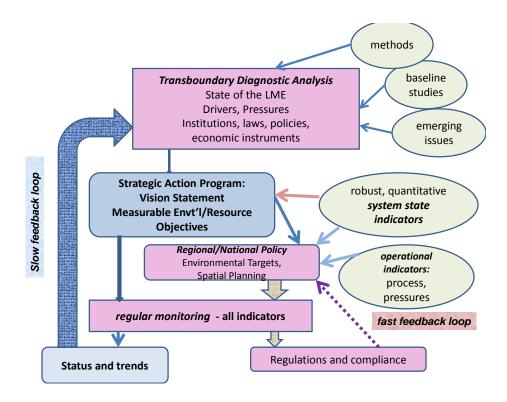
- Marine Science Institute, University of the Philippines
- Institute of Environmental Management and Science
- PAGASA, DOST
- NAMRIA
- JAMSTEC, Japan





GLOBAL ENVIRONMENT FACILITY – INTERNATIONAL WATERS FOCAL AREA





Thank you for your attention and reaction



ADB RETA Project/A. S. Cabanban