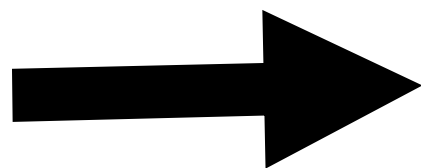


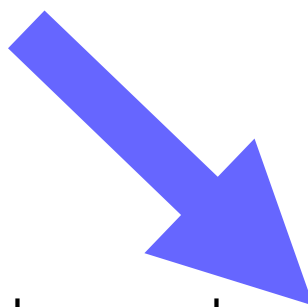
Parameter	Evaluation 2009-2019	Action plan 2019-2030	To Do (within 3-5 yrs)	SDGs Contribution
Mapping of diversity of tree species			● Encourage fieldworks in Cambodia, ...	
Collection of phenological information of tree species			● Encourage to collect phenological information in each countries	



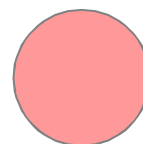
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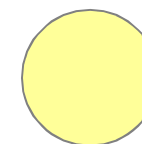
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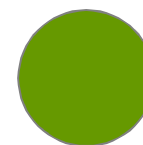
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Urgent question



General question



Recommend

1. Biodiversity research and monitoring
2. Networking of networks
3. Outreach activities, Capacity building, Actions for biodiversity of networks

Networking networks and revive past activities to observe spatial-temporal patterns

Facilitate broad scale researches and production of infrastructure

Facilitate gathering the information of recent topics

Outreaching and increase communication of people

0. Organizing ARMBON ^{Steering} ^{Committee}

*2 people per country, 12 total
Marine GISD members*

2019 2020 2021

1. Networking

2. Platform building ← Database updating
- OBIS - UNEP - WCMC

3. Research

2 Long-term change in Asian Marine Biodiversity
using legacy Data

= Development of NEW TECHNIQUES for effective
marine biodiversity observation

- Drones - Remote sensing

- eDNA

- ARMS

planning
essential

4. Synthesis
WS

- Social-Ecological System Study toward
sustainable use of coastal resources

where
finds

Marshall

Romania

Belmont
Forum

- **Ideas for future activities**

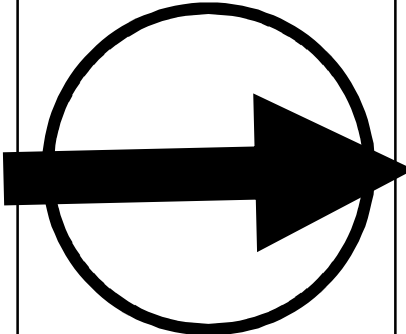





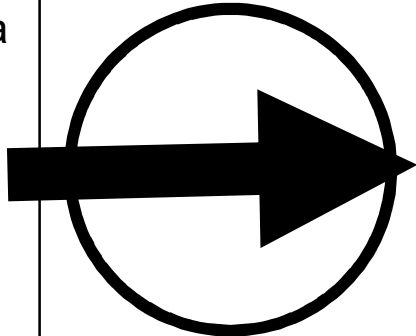




- A comparison of elements of biodiversity, and related environmental conditions, along a latitudinal gradient, could be compared with the findings of the “Pole to Pole” (P2P) MBON in the Americas (Table 2). These could be achieved by bringing together existing data and new data available from AP MBON members. Analyses could thus be both specific to the AP region, but by comparison with P2P America’s, be placed in a more global context. Data could include:
 - species richness,
 - biogenic habitat cover (forest, seagrass, kelp, mangrove, coral),
 - species endemism,
 - key species abundance,
 - debris, plastics,
 - contaminants (TBT, PCB, etc.)
 - nutrient pollution,
 - invasive species,
 - carbonate sensitive species,
 - freshwater discharges
 - threatened species (IUCN listed)
 - fisheries trends and status
- Results may indicate areas where ecosystem restoration is most urgent, where impacts need to be better managed, where new Marine Protected Areas would be best located, and provide new understanding about marine ecosystems and food webs.

Other projects could be narrower in scope and focus on particular habitats and species guilds. They may focus on **coastal, deep-sea, pelagic or benthic, and particular taxa such as fish, mollusc, crustaceans, echinoderms, or tunicates.** Workshops could focus on **(1) developing new field and laboratory methods, including image analysis techniques, and (2) data synthesis and analysis. Such workshops should publish their results,** such as new methods, best practices, and discoveries from data analyses.

To progress these activities, AP MBON should find one or more researchers, such as post-doc' fellows, with the time and skills to synthesise data from GBIF, OBIS, and members to lead a co-authored publication. This process would have multiple benefits in building personal and institutional relationships, identifying data gaps, and demonstrate proof-of-concept that AP MBON can deliver useful results. It would also give AP MBON visibility within the scientific community, and results may have important implications for regional and national policies regarding the oceans. The outcomes of the above will stimulate and advise on future priorities for AP MBON.

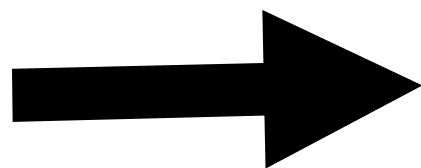
1. Biodiversity research and monitoring

WG :

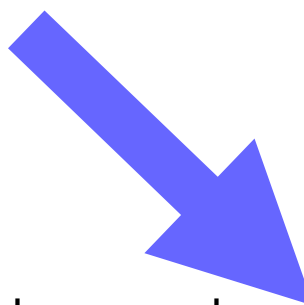
Parameter	Evaluation 2009-2019	Action plan 2019-2030	To Do	SDGs Contribution
1. Monitoring states and changes of biodiversity	 Slight increase		-Keep monitoring -Identifying key sites -Contribute national report or international bodies	   
2. Filling gaps in data availability			-Locating the data gap -Other partnership -More output from data gap region (esp. small islands?) -SDM for the gap area	  



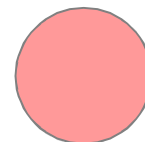
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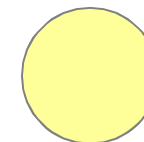
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Urgent question

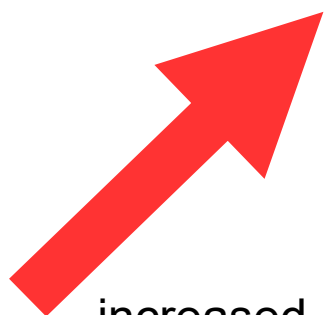


General question

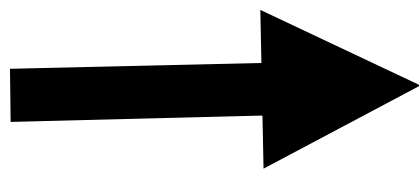


Recommend

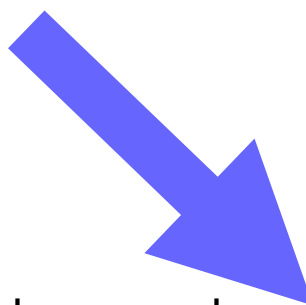
Parameter	Evaluation 2009-2019	Action plan 2019-2030	To Do	SDGs Contribution
3. Increasing access to data (data sharing)			<ul style="list-style-type: none"> - Contribute more on global data sharing (OBIS or GBIF) - 	 
4. Improving knowledge on cutting-edge technologies			<ul style="list-style-type: none"> - Conduct more researches on metabarcoding, eDNA - More Use of remote sensing to improve landscape monitoring - Biologging, geotagging - Application of AI 	  



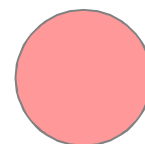
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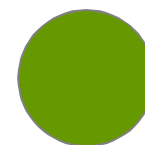
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Urgent question



General question



Recommend

5. How can we contribute to AO-GEO pilot studies

1) Mekong 2) Pacific islands 3) Himalaya

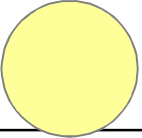













- 1) Monitoring effect of terrestrial change on marine
How far Mekong river will have impact? (Change of mangrove; Sharma have some works)
 - 2) Effect of climate change (Coral) Change of human community.
Cyclone, water level, water temperature
 - 3) Monitoring effect of terrestrial change on marine
Impact of decrease of glacia? (increase of mangrove?)
 - 4) Potential sites : sarawak & coral triangle (S-China sea and Sulu Sulawesi sea), Strait of Malacca and more BOBLME
- *Current member is not specialized for this, we need to invite more member.

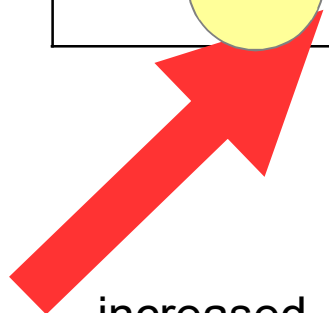
6. How can we raise funds for AP-BON activities?

- focus a target towards decade of ocean science for sustainable development
(impact of micro plastic and effort to reduce plastic)
- Start up funding or strategic funding?
- Partner with consumers on marine resources (e.g.,
- Making working groups within communities to execute strategic funding venues

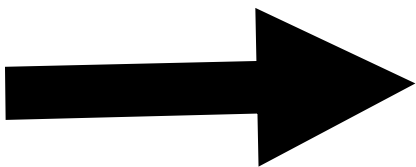
2. Networking of networks

WG :

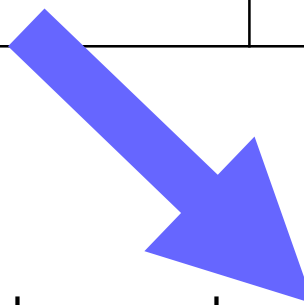
Parameter	Evaluation 2009-2019	Action plan 2019-2030	To Do	SDGs Contribution
1) Networking with observatio n sites and networks 			-linking AP-MBON to other networks	   
2) Networking with global platform, policy- relevant communiti es 			-Linking with local alliances of local executives to include citizens in policy networks -Contribute CBD, IPBES, OBIS, UN Sustainable Ocean?	   



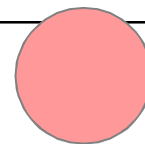
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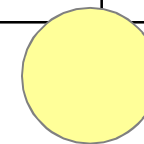
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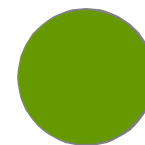
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Urgent
question



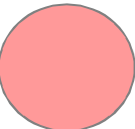
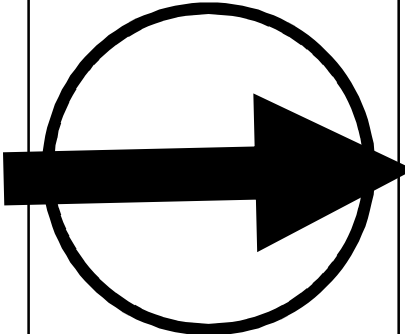






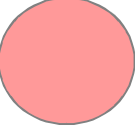










General
question



Recommend

3. Outreach activities, Capacity building, Actions for biodiversity of networks

WG : _____

Parameter	Evaluation 2009-2019	Action plan 2019-2030	To Do	SDGs Contribution
1) Outreach activities & social communication 			<ul style="list-style-type: none"> - Media exposure? to sensationalize scientific efforts for the community's awareness - Making a Website - Document of Key messages (by taxon) on local language? - CEPA (Communication, Education & Public Awareness) 	    
2) Capacity building 			<ul style="list-style-type: none"> - Information management - taxonomy and systematics - valuation of resources - translation to local lang - training for standardized methods 	       

increased

no change

decreased

