

## The 13<sup>th</sup> Asia-Oceania Biodiversity Observation Network Workshop (ver. October 14)

### Background

APBON was established in 2009 to develop a network of observation, knowledge production, data sharing and capacity building for biodiversity and ecosystem conservation and related issues in the region. APBON encourages inclusive activities and contributions such as observations, data, knowledge and capacity for regional cooperation. Members share the mission and core values of the network and acknowledge voluntary contributions each other. Based on the achievements and emerging challenging in its first decade, APBON developed its strategic plan toward 2030 ([Takeuchi et al. 2021](#)). The advanced APBON's missions are: *Promoting interdisciplinary research and problem-solving approaches with filling the observational and knowledge gaps, Promoting data sharing and data accessibility through/by networks of the observation networks, Delivering our information and knowledge to stakeholders and global platforms.*

In January 2021, APBON held its [12<sup>th</sup> Workshop](#) to share the recent activities and future collaborative research ideas, learning challenges due to COVID-19 pandemic since 2020, and communicate with stakeholders or partners of biodiversity issues for further engagement. APBON reported its activities and future plans to Asia-Oceania Group on Earth Observations (AOGEO) at its [13<sup>th</sup> Symposium](#) (March 2021) and also contributed to a Plenary session on Biodiversity, Ecosystems and Nature-based Solutions at [GEO Symposium 2021](#) (June 2021). Biodiversity is one of the critical issues in the world under climate change, societal change and global pandemic (e.g., The Dasgupta Report; joint workshop of IPBES and IPCC; G7 Summit, etc.).

The 13<sup>th</sup> APBON Workshop will be held to learn and discuss more about the needs of knowledge on biodiversity-related issues, collaborative research and synthesis, cooperative activities with partners and stakeholders.

*Takeuchi et al. (2021) The Asia-Pacific Biodiversity Observation Network:  
10-year achievements and new strategies to 2030.  
Ecological Research, <https://doi.org/10.1111/1440-1703.12212>*

### Objectives of the Workshop

The 13<sup>th</sup> APBON Workshop will be organized by interactive discussions by bringing ideas from participants for generating plans of integrative collaborations with the clear objectives below.

- A) Scoping collaborative work plan of APBON in the next ca. 4 years (~2025), which is the first half of APBON's strategic plan toward 2030.
- B) Preparing inputs/deliverables to the [14<sup>th</sup> AOGEO Symposium](#) (10-12 November 2021) for discussing biodiversity-related issues and for scoping 2023-2025 AOGEO Implementation Plan document, and a short presentation at the [GEO Week 2021](#) side event (AOGEO highlights, tbc).

### Focus of the Workshop sessions

1. Identifying Integrated knowledge and research/synthesis design (cf., baseline data for detecting change; socio-ecological boundaries; conservation guideline; joint climate-biodiversity targets; ecosystem service analysis; respond to Post-2020 Global Biodiversity Framework)
  - knowledge for what, where?
  - do we have data or appropriate biodiversity variables?
  - how do we proceed?
2. Analyzing data availability and accessibility, and exploring data sharing (through networking)
3. Collaboration with partners (e.g., Key Biodiversity Areas, AOGEO)
4. Engagement with stakeholders (→ contribution of APBON to society: e.g., contribution to National Biodiversity Strategies and Action Plans (CBD), IPBES assessments, etc.)

## Workshop program

**Date:** 19<sup>th</sup> October 2021 (Tuesday)

**Time:**

| Country or state                        | Time zone | Workshop opening |
|---|-----------|------------------|
| Hawaii                                  | UTC -10   | 16:00            |
| Japan, Korea, Palau                     | UTC +9    | 11:00 am         |
| China, Philippines, Malaysia            | UTC +8    | 10:00 am         |
| Thailand, Cambodia, Indonesia (Jakarta) | UTC +7    | 9:00 am          |
| Nepal                                   | UTC +5:45 | 7:45 am          |

<https://www.timeanddate.com/worldclock/>

### Venue: Online (Webex)

<https://hiroyuki-muraoka.webex.com/hiroyuki-muraoka-en/j.php?MTID=m40598779239ea1f28a16fc92c7808c65>

Meeting number (access code): 2518 694 2609

Meeting password: hKeENT2M88

### Pre-registration (optional)

[https://docs.google.com/forms/d/1p9QUvuAWUatid10gKHtgRpGRfTodUzzu3E-40NYj76s/viewform?edit\\_requested=true](https://docs.google.com/forms/d/1p9QUvuAWUatid10gKHtgRpGRfTodUzzu3E-40NYj76s/viewform?edit_requested=true)

### Materials and references

- Table S3 in [APBON Strategy paper](#)
- Outcomes of [12<sup>th</sup> APBON Workshop](#)
- Mapping analysis on SDGs, Paris agreement, Sendai Framework ([13<sup>th</sup> AOGEO Symposium](#)) (Table S2 in APBON Strategy paper)
- Plenary session on Biodiversity, Ecosystems and Nature-based Solutions at [GEO Symposium 2021](#) (Video recording is available on the website)

|                        |   |   |
|------------------------|---|---|
| 11:00 –<br>11:30 (JST) | <b>Session 1: Opening and Scene setting [30 minutes]</b><br>Moderator: APBON Co-chairs  |   |
|                        | <ul style="list-style-type: none"> <li>• Opening remarks</li> <li>• Objectives, expected outcomes, working hypothesis [Hiroyuki Muraoka]</li> </ul>   |   |
| 11:30 –<br>13:30 (JST) | <b>Session 2: Breakout group session [2 hours]</b>  |   |
|                        | <ul style="list-style-type: none"> <li>• Identifying knowledge to respond to national, regional, and global needs (e.g., national reporting to CBD; NbS; joint climate-biodiversity targets; post2020; 30by30)</li> <li>• Brainstorming design of collaborative research and synthesis (e.g., refining EBVs for Asia-Pacific; etc.)</li> <li>• Analyzing data availability and accessibility</li> <li>• Reviewing APBON’s contribution to SDGs, Paris Agreement, Sendai Framework (to be submitted to the 14<sup>th</sup> AOGEO Symposium in November)</li> <li>• Next steps</li> </ul> |   |
|                        | <b>Terrestrial WG and Freshwater WG</b><br>Effective biodiversity monitoring for post-2020 biodiversity target and policy-relevant agenda   | <b>Marine WG</b> <ul style="list-style-type: none"> <li>• UN Decade of Ocean Science and ML2030 (Massa Nakaoka)</li> <li>• Establishing Asian network of blue carbon</li> </ul> |

|                     |   |   |
|---------------------|---|---|
|                     | <ul style="list-style-type: none"> <li>• Integrated observation of forests by satellite and in-situ survey [Osamu Ochiai@JAXA]</li> <li>• Cutting edge monitoring technologies and informatics [Shin Nagai]</li> <li>• Environmental DNA monitoring [Manabu Onuma]</li> <li>• Fish abundance and diversity monitoring along Mekong River and its tributaries in Cambodia [Putrea Solida (IFREDI)]</li> </ul>              | <p>research and eDNA (Venus Leopardas / Tadashi Kajita)</p> <ul style="list-style-type: none"> <li>• Current status of OBIS: how to increase its contents and accessibility (Tadashi Hosono / Kit Elloran)</li> <li>• How to achieve 30by30 in marine regions of AP? (Qinshuo Zao / Yasuhiro Kubota)</li> </ul> |
| 13:30 – 14:30 (JST) | <b>Break</b>  |   |
| 14:30 – 15:30 (JST) | <b>Session 3: Group reporting and joint discussion [60 minutes]</b><br>Moderator: Runi Sylvester Pungga and Yongyut Trisurat  |   |
| 15:30 – 16:45 (JST) | <b>Session 4: Collaboration with partners and plans for stakeholder engagement [75 minutes]</b><br>Moderator: Yongyut Trisurat and Hiroyuki Muraoka <ol style="list-style-type: none"> <li>1. Reporting group discussion findings &amp; outcomes [WG leads]</li> <li>2. Open discussion for planning joint-WG research, data integration, etc. (e.g., landscape approach: land-river-coast) [all participants]</li> </ol> |   |
| 16:45 – 17:00 (JST) | <b>Wrap-up and closing [15 minutes]</b><br>Moderators: APBON Co-chairs  |   |
|                     | <ul style="list-style-type: none"> <li>• Summary and next steps</li> <li>• Closing remarks</li> </ul>   |   |

**Need you help:**

1. **Session co-chairs/moderators** are requested to make a brief outcome text (achievements, plans in 2022 and beyond) to be reported at the [14<sup>th</sup> AOGEO Symposium](#) (10-12 November) and to be shared with entire APBON. Please send them to Hiroyuki Muraoka ([muraoka@green.gifu-u.ac.jp](mailto:muraoka@green.gifu-u.ac.jp)) before 29 October.
2. **Speakers** are kindly asked to share their presentation slides with APBON Co-chairs for preparing presentations at the [14<sup>th</sup> AOGEO Symposium](#) (11 November) and at a side event in [GEO Week 2021](#) (25 November, tbc).