**Review Comment Template for the document on indicators for the draft goals and targets of the post-2020 global biodiversity framework**

Parties and stakeholders are invited to make suggestions of indicators (currently available or under development) that may be used to measure progress towards the post-2020 framework. The draft components and elements of the monitoring framework for the post-2020 global biodiversity framework are based on updated draft goals and targets, as was requested by the second meeting of the OEWG, and presented in document <https://www.cbd.int/sbstta/sbstta-24/post2020-monitoring-en.pdf>.

Please note: there are two tables in this document, one for suggestions for indicators for the draft monitoring elements of goals, and another table for indicators for the draft monitoring elements of targets

**Instructions for providing input on indicators and completion of indicator tables (for goals and targets):**

* Please do not add columns to the tables below
* Please add rows for additional indicators related to monitoring elements for specific components from goals (table 1) and components from targets (table 2). The information of draft components and monitoring elements for goals and targets is available in document <https://www.cbd.int/sbstta/sbstta-24/post2020-monitoring-en.pdf>
* To add an indicator for specific monitoring elements, please provide the following information:
  + Column 1: copy/paste the component of the goal (enter information in table 1) or target (enter information in table 2) from <https://www.cbd.int/sbstta/sbstta-24/post2020-monitoring-en.pdf>, which the indicator can be used for. This MUST be provided
  + Column 2: copy/paste the specific monitoring element of the goal (enter information in table 1) or target (enter information in table 2), which the indicator can be used for from <https://www.cbd.int/sbstta/sbstta-24/post2020-monitoring-en.pdf>. This MUST be provided
  + Column 3: the published or accepted name of the indicator. This MUST be provided
  + Column 4: the name of the organisation(s) responsible for producing the indicator and keeping it up to date. This MUST be provided
  + Column 5: please state whether the indicator is ready for use today (with an X) or if is still under development (Y). This MUST be provided
  + Column 6: if you are adding a new indicator that is still under development, please indicate the year that you expect it to be available
  + Column 7: for any existing indicator, please add the year of the last update
  + Column 8: please provide the time series for the indicator and frequency of update (e.g. 1990-2020, available every 5 years).
  + Column 9: please state (Y or N) whether there is a published methodology for application of the indicator at the national level
  + Column 10: please state (Y or N) whether any new or existing indicator can be disaggregated at the national level for use by Parties
  + Column 11: please state (Y or N) whether the indicator is aggregated from data that is collected at the national level (e.g. with data from national institutions)
  + Column 12: please state (Y or N) whether any indicator has been used in the 4th Edition of the Global Biodiversity Outlook (GBO-4).
  + Column 13: please state (Y or N) whether the indicator is currently included in the SDG indicator framework and provide the SDG indicator number
  + Column 14: please state whether an indicator is used for any Multi-Lateral Environmental Agreements other than the CBD (e.g. Ramsar Convention, CMS) or is used as an indicator by IPBES, by writing the abbreviated name of the MEA or process
  + Column 15: please enter any further information or relevant links
* Example entries have been provided in the tables below for goals and targets, please follow the same format for each indicator entry
* Inputs should be sent by e-mail to [secretariat@cbd.int](mailto:secretariat@cbd.int) no later than 25 July 2020

**For general comments please use the template provided in page 2 below**

**Table 1. Indicators for monitoring elements of the draft goals (with example entries)**

| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Components of the draft Goals**  **(copy/paste text from** [**CBD/SBSTTA-24/post-2020-monitoring.en.pdf**](https://www.cbd.int/sbstta/sbstta-24/post2020-monitoring-en.pdf)**)** | **Goal Monitoring Elements**  **(copy/paste text from** [**CBD/SBSTTA-24/post-2020-monitoring.en.pdf**](https://www.cbd.int/sbstta/sbstta-24/post2020-monitoring-en.pdf)**)** | **Indicator name** | **Responsible Institution for the indicator** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g. 2019)** | **Time series and frequency of updates (e.g. 1985-2019, annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO-4 (Y/N)** | **SDG indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar Convention, IPBES, CMS)** | **Comments** |
| A1. Increased extent of natural ecosystems (terrestrial, freshwater and marine ecosystems) | Trends in area of coral reefs | Hard Coral cover and composition | IOC-UNESCO (GOOS, IODE/OBIS), Global Coral Reef Monitoring Network | X |  | 2020 | 1970s, annual | Y | Y | Y | Y | N |  | Provides correct name for this EOV |
| Trends in area of kelp forests | Macroalgal Canopy Cover and Composition | IOC-UNESCO (GOOS, IODE/OBIS), Global Ocean Macroalgal Observing Network (GOMON) | Y |  | 2016 |  | Y | Y | N | N | N |  |  |
| Trends in area of seagrass meadows | Seagrass Cover and composition | IOC-UNESCO (GOOS, IODE/OBIS), UNEP-WCMC | X |  | 2020 |  |  |  |  |  |  | IPCCC | Listed in table under UNEP-WCMC but responsibility and standards as indicated here |
| A2. Ecosystem integrity and connectivity (terrestrial, freshwater and marine ecosystems) | Trends in fragmentation and quality of other marine and coastal ecosystems | Average marine acidity (pH) measured at agreed suite of representative sampling stations | IOC-UNESCO | X |  | 2018 | 2010-2019, annually | Y |  | N |  | Y  SDG indicator 14.3.1 |  | Included as indicator in the  draft monitoring framework document of SCBD for element ‘Trends in fragmentation and quality of coral reefs’ |
|  | Trends in fragmentation and quality of other marine and coastal ecosystems | Seagrass Cover and composition | IOC-UNESCO (GOOS, IODE/OBIS), UNEP-WCMC | X |  | 2020 |  |  |  |  |  |  | IPCCC |  |
|  | Trends in area of kelp forests | Macroalgal Canopy Cover and Composition | IOC-UNESCO (GOOS, IODE/OBIS), Global Ocean Macroalgal Observing Network (GOMON) | Y |  | 2016 |  | Y | Y | N | N | N | IPCCC |  |
| A4. Increase the number and health of common species | Trends in species abundance | Fish Abundance and Distribution | IOC-UNESCO (GOOS, IODE/OBIS), | Y |  |  |  |  |  |  |  |  |  |  |
| Trends in species abundance | Marine turtles, birds, mammals abundance and distribution | IOC-UNESCO (GOOS, IODE/OBIS), | Y |  |  |  |  |  |  |  |  |  |  |
| Trends in species abundance | Zooplankton Biomass and Diversity | IOC-UNESCO (GOOS, IODE/OBIS), | Y |  |  |  |  |  |  |  |  | IPCCC |  |
| Trends in species abundance | Phytoplankton biomass and diversity | IOC-UNESCO (GOOS, IODE/OBIS), | Y |  |  |  |  |  |  |  |  | IPCCC |  |
| Trends in species abundance | Microbe Biomass and diversity | IOC-UNESCO (GOOS, IODE/OBIS), OmicBON | Y |  |  |  |  |  |  |  |  |  |  |
| A6. Protection of critical ecosystems | Trends in area of coastal and marine areas conserved | See also T1.1 below |  |  |  |  |  |  |  |  |  |  |  |  |
| D2. Sufficient capacity building, technology transfer and scientific cooperation | Trends in scientific cooperation | Nr of scientific papers using OBIS published together per country and per region | IOC-UNESCO (IODE/OBIS) |  |  |  |  |  |  |  |  |  |  | See <https://github.com/iobis/bib/blob/master/obis/graphs/pub_larger.pdf> |
|  |  |  | IOC-UNESCO | X |  | 2017 | Every 5 years | Y | Y | Y |  |  |  |  |
|  |  | Average national ocean science researchers per million population | IOC-UNESCO (GOSR) | X |  | 2017 | Every 5 years | Y | Y | Y |  |  |  |  |
|  |  | Number of days per year of research conducted nationally and internationally by research vessels per country | IOC-UNESCO (GOSR) | X |  | 2017 | Every 5 years | Y | Y | Y |  |  |  |  |
|  |  | Number of published papers and citations in ocean science by country | IOC-UNESCO (GOSR) | X |  | 2017 | Every 5 years | Y | Y | Y |  |  |  |  |
| D3. Access  to technology | Trends in  access to  relevant  technologies | Number of marine stations per country | IOC-UNESCO | X |  | 2017 | Every 5 years | Y | Y | Y |  |  |  |  |
|  |  | Number of nationally maintained research vessels per country | IOC-UNESCO | X |  | 2017 | Every 5 years | Y | Y | Y |  |  |  |  |

**Table 2. Indicators for monitoring elements of the draft targets (with example entries)**

| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
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| **Components of the draft Targets**  **(copy/paste text from** [**CBD/SBSTTA-24/post-2020-monitoring.en.pdf**](https://www.cbd.int/sbstta/sbstta-24/post2020-monitoring-en.pdf)**)** | **Target Monitoring Elements**  **(copy/paste text from** [**CBD/SBSTTA-24/post-2020-monitoring.en.pdf**](https://www.cbd.int/sbstta/sbstta-24/post2020-monitoring-en.pdf)**)** | **Indicator name** | **Responsible Institution for the indicator** | **Available today (X) or under active development (Y)** | **Date of availability for indicator in development (Year)** | **Year of last update (e.g. 2019)** | **Time series and frequency of updates (e.g. 1985-2019, annually)** | **Methodology available for national use (Y/N)** | **Global indicator can be disaggregated for national use (Y/N)** | **National data aggregated to form global indicator (Y/N)** | **Used in GBO-4 (Y/N)** | **SDG indicator (Y/N)** | **Indicator used to measure other MEAs or processes (e.g. Ramsar Convention, IPBES, CMS)** | **Comments** |
| T1.1. Increase in area of terrestrial, freshwater and marine ecosystems under spatial planning | Trends in area under marine spatial planning | Countries with active MSP processes | IOC-UNESCO | Y | 2021 | 2020 | Annually from 2020 | N | N | Y | N | N | Y |  |
|  |  | Percentage of national EEZ area covered by MSP Plans per country | IOC-UNESCO | Y | 2021 | 2020 | Annually from 2020 | Y | Y | Y | N | N | Y |  |
| T1.2. Prevention of reduction and fragmentation of natural habitats due to land/sea use change | Trends in extent and rate of change of coral reefs | Hard Coral cover and composition | IOC-UNESCO (GOOS, IODE/OBIS), |  |  |  |  |  |  |  |  |  |  |  |
| Trends in extent and rate of change of seagrass ecosystems | Seagrass Cover and composition | IOC-UNESCO (GOOS, IODE/OBIS), |  |  |  |  |  |  |  |  |  |  |  |
| Trends in extent and rate of change of other marine and coastal ecosystem | Macroalgal Canopy Cover and Composition | IOC-UNESCO (GOOS, IODE/OBIS), |  |  |  |  |  |  |  |  |  |  |  |
| T5.2. Effective detection, identification, prioritisation and monitoring of invasive alien species | Trends and efficiency of detection of invasive alien species | Early detection of marine invasive species using metabarcoding | IOC-UNESCO (IODE/OBIS) and PacMAN consortium (Pacific Islands Marine bioinvasion Alert Network) | Y |  |  |  |  |  |  |  |  |  |  |
| T6.3 Reduction of pollution from plastic | Trends in level of pollution with marine plastic | Integrated Marine Debris Observing System (IMDOS) | IOC-UNESCO | Y |  |  |  |  |  |  |  |  |  |  |
| T6.4. Reduction of pollution from other sources | Trends in levels of pollution from sediments | Index of Coastal Eutrophication | UNEP / IOC-UNESCO | Y | 2021 |  | Every 5 years |  |  |  |  | Y  SDG indicator 14.1.1a |  |  |
|  | Trends in levels of pollution from noise | Ocean Sound | IQOE and IOC-UNESCO (GOOS, IODE/OBIS) | Y |  |  |  |  |  |  |  |  |  | International Quiet Ocean Experiment |
| T18.3. Increase in financial resources from domestic sources | Trends in public domestic resource mobilization | Proportion of total research budget allocated to research in the field of marine technology | IOC-UNESCO | X |  | 2018 | 2009-2016 | Y |  | Y |  | Y  SDG indicator 14.a.1 |  | Already included as indicator in the  draft monitoring framework document of SCBD |
| T18.5. Implementation of the strategy for technology transfer and scientific cooperation | Trends in technology transfer/Trends in scientific cooperation | Nr of scientific papers using OBIS published together by country and per region | IOC-UNESCO (IODE/OBIS) | X | N?A | 2020 |  | Y | Y | N | N | N | N | See <https://github.com/iobis/bib/blob/master/obis/graphs/pub_larger.pdf> |
| T19.1. Availability of reliable and up-to-date biodiversity related information | Trends in the availability of biodiversity related information | Growth in marine species occurrence records accessible through OBIS | IOC-UNESCO (IODE/OBIS) | X | N/A | 2020 | 2000-2020 | Y | Y | N | N | N | N |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **General Comments** | |
| **Page** | **Comment** |
| 0 | This is an example of an entry of a general comment |
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|  | Additional rows can be added to this table by selecting “Table” followed by “insert” and “rows below” |