Essential biodiversity workflows in support of policy

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May 2021, 1st stakeholder workshop of EuropaBON
14:30 - 16:00 EuropaBON: Essential biodiversity workflows in support of policy

14:30 Introduction to Session - W. Daniel Kissling (UvA) (Chair)

14:35 EU Bird Monitoring: bird data-flow from collection to policy - Anna Staneva (BirdLife)

14:45 Global Biodiversity Information Facility - Tim Hirsch (GBIF)

14:55 Workflows from habitat monitoring to policy advice: opportunities, gaps and challenges - Stephan Hennekens (WUR)

15:05 Continental system for forecasting bird migration - Andrew Farnsworth (Cornell U)

Future opportunities and concluding remarks

15:15 Reinforcing pan-European biodiversity monitoring activities through synergies between the European Biodiversity Partnership and EuropaBON - Xavier Le Roux (European Co-funded Partnership on Biodiversity)

15:25 Summary and outlook - W. Daniel Kissling (UvA)

15:40 Concluding remarks - Jessi Junker (EuropaBON scientific coordinator)

16:00 Farewell
Essential biodiversity workflows in support of policy

1. Primary observations
   - Opportunistic observations (e.g. citizen science programs)
   - Official monitoring programs (e.g. EU Water Frame Directive, national monitoring)
   - Ecological observatories (e.g. eLTER network)
   - Airborne and spaceborne remote sensing
   - Weather and bird radar

2. Data harmonization & integration
   - Data standardization
   - Metadata standards
   - Best practices for structure of data products
   - Data accessibility
   - Data gaps
   - Model-based integration

3. Indicators and forecasts
   - EU policy indicators
   - Birds Directive
   - Habitats Directive
   - Water Framework Directive
   - Restoration and Climate Policies
   - Bioeconomy Strategy
   - Short-term biodiversity forecasts
   - Early warning signals
   - Scenario development

Essential Biodiversity Variables (EBVs)
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EBVs are a minimum set of complementary measurements that can capture major dimensions of biodiversity change.

6 EBV classes with 20 EBVs

<table>
<thead>
<tr>
<th>EBV Class</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genetic composition</td>
<td>e.g. Intraspecific genetic diversity</td>
</tr>
<tr>
<td>Species populations</td>
<td>e.g. Species distributions</td>
</tr>
<tr>
<td>Species traits</td>
<td>e.g. Phenology</td>
</tr>
<tr>
<td>Community composition</td>
<td>e.g. Taxonomic or phylogenetic diversity</td>
</tr>
<tr>
<td>Ecosystem structure</td>
<td>e.g. Ecosystem distribution</td>
</tr>
<tr>
<td>Ecosystem function</td>
<td>e.g. Ecosystem phenology</td>
</tr>
</tbody>
</table>

[https://geobon.org/ebvs/what-are-ebvs/]
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Summary and outlook

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EuropaBON: integrating data streams to support policy

Multiple data collection streams need to be integrated from which indicators, forecasts and scenarios can be derived to inform major environmental EU policies.
EBV wishlist

Which EBVs do we want to monitor in the EU, for which taxa and ecosystems, and at which spatial and temporal resolution?

https://geobon.org/ebvs/what-are-ebvs/
Thursday & Friday (27-28th May) - Working Sessions

Thursday 27th May
EuropaBON: User needs, policy needs, & linking data to policy

User and policy needs
(plenary & breakout sessions in the morning)

Linking data to policy: existing monitoring schemes, known gaps and challenges
(plenary & breakout sessions in the afternoon)

Friday 28th May
EuropaBON: Mapping the European biodiversity monitoring landscape and how it can inform European policy (with a focus on EBVs and EESVs)

How EBVs and EESVs can inform European policy needs
(plenary & breakout sessions in the morning)

Towards the co-design of EuropaBON
(plenary & breakout sessions in the afternoon)