Supplementary Materials for

Essential Biodiversity Variables


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Supplementary Text
Fig. S1
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Supplementary text: Authors and affiliations


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Supplementary Figure

Fig. S1. The essential biodiversity variables (EBVs) framework. Primary observations from in situ monitoring and remote-sensing systems are preprocessed and combined into EBVs. Thus, EBVs represent an intermediate data layer for harmonization between sampling protocols and measurement systems. All EBV classes should be included in a biodiversity monitoring program. EBVs inform multiple biodiversity and ecosystem-service indicators, such as those needed to assess the Aichi Biodiversity targets. Some indicators require the integration of EBVs with other sources of information such as data on ancillary biodiversity attributes (slowly changing variables), drivers and pressures, management and policy responses, and valuation and demand of ecosystem services. Future projections of drivers and policy responses can be used to develop scenarios for biodiversity and ecosystem services using models calibrated and validated with EBVs.
Primary observations of change in state of biodiversity

Remote sensing

In-situ monitoring

Essential Biodiversity Variables

Species populations
Species traits

Genetic composition
Community composition

Ecosystem structure
Ecosystem function

High-level indicators of biodiversity & ecosystem services (e.g. for CBD)

Ancillary attributes (slow changing)

Ecosystem-service valuation & other data

Observations of policy & management responses

Observations of drivers & pressures

Scenarios for biodiversity & ecosystem services (e.g. for IPBES)
References and Notes
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