

SDG Goal 15

Life on land

SDG Target 15.4

By 2030, ensure the conservation of mountain ecosystems, including their biodiversity, in order to enhance their capacity to provide benefits that are essential for sustainable development

SDG Indicator 15.4.1

Coverage by protected areas of important sites for mountain biodiversity

Time series

Mountain Key Biodiversity Areas (KBAs) covered by protected areas

1. General information on the time series

- Date of national metadata: 21 October 2021
- National data: <http://sdg-indikatoren.de/en/15-4-1/>
- Definition: The time series measures the proportion of Key Biodiversity Areas (KBAs) in mountain regions that is covered by protected areas
- Disaggregation: Not available.

2. Comparison with global metadata

- Date of global metadata: July 2021
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-15-04-01.pdf>
- The time series is calculated as the percentage of Key Biodiversity Areas covered by protected areas and not the mean percentage of each Key Biodiversity Area that is covered by protected areas as described in the global metadata.

3. Data description

- For the calculation of area under protection, all protected areas except for nature parks and UNESCO-MAB Biosphere reserves are considered. Data on protected areas was downloaded from the Protected Planet webpage. Data on Key Biodiversity Areas was provided by the Nature And Biodiversity Conservation Union (NABU) for Germany. The area of mountain regions is calculated in the same manner like SDG 15.4.2 (<https://sdg-indikatoren.de/public/MetaDe/15.4.2.pdf>), provided by the Federal Agency for Cartography and Geodesy Germany. To be as precise as possible, the time series is calculated as the percentage of Key Biodiversity Areas covered by protected areas and not the mean percentage of each Key Biodiversity Area that is covered by protected areas as described in the global metadata.

4. Accessibility of source data

- Data on protected areas:
<https://www.protectedplanet.net/country/DEU>
- Digital elevation model (DGM10) (only available in German):
<https://gdz.bkg.bund.de/index.php/default/digitale-geodaten/digitale-gelandemodelle/digitales-gelandemodell-gitterweite-10-m-dgm10.html>
- Data on Key Biodiversity Areas (only available in German):
<https://bergenhusen.nabu.de/forschung/ibas/index.html>

5. Metadata on source data

- Metadata on protected areas:

<https://www.protectedplanet.net/en/thematic-areas/wdpa?tab=Methodology>

- The time series is based on special evaluation by the Federal Agency for Cartography and Geodesy. Source data 2015 (only available in German):

<https://gdz.bkg.bund.de/index.php/default/digitales-landbedeckungsmodell-fur-deutschland-stand-2015-lbm-de2015.html>

- The time series is based on special evaluation by the Federal Agency for Cartography and Geodesy. Source data 2018 (only available in German):

<https://gdz.bkg.bund.de/index.php/default/digitales-landbedeckungsmodell-fur-deutschland-stand-2018-lbm-de2018.html>

- Data on Key Biodiversity Areas (only available in German):

<https://bergenhusen.nabu.de/forschung/ibas/index.html>

6. Timeliness and frequency

- Timeliness: Not applicable.
- Frequency: Annual

7. Calculation method

- Unit of measurement: Percentage
- Calculation method:

$$\text{Key Biodiversity Areas (KBAs)} \\ \text{in mountain regions covered by protected areas} = \frac{\text{Protected mountain KBA}}{\text{Total area of mountain KBA}} \cdot 100[\%]$$

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Time series

Mountain regions, covered by protected areas

1. General information on the time series

- Date of national metadata: 21 October 2021
- National data: <http://sdg-indikatoren.de/en/15-4-1/>
- Definition: The time series measures the protected area in relation to the total area of mountain regions.
- Disaggregation: Not available.

2. Comparison with global metadata

- Date of global metadata: July 2021
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-15-04-01.pdf>
- The time series is not compliant with the global metadata, but provides additional information.

3. Data description

- For the calculation of area under protection, all protected areas except for nature parks and UNESCO-MAB Biosphere reserves are considered. Data on protected areas was downloaded from the Protected Planet webpage. The area of mountain regions is calculated in the same manner like SDG 15.4.2 (<https://sdg-indikatoren.de/public/MetaDe/15.4.2.pdf>), provided by the Federal Agency for Cartography and Geodesy Germany. To be as precise as possible, the time series is calculated as the percentage mountain regions covered by protected areas and not the mean percentage of each mountain area that is covered by protected as described in the global metadata.

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- Data on protected areas:
<https://www.protectedplanet.net/country/DEU>
- Digital elevation model (DGM10) (only available in German):
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6. Timeliness and frequency

- Timeliness: Not applicable.
- Frequency: Annual

7. Calculation method

- Unit of measurement: Percentage
- Calculation method:

$$\text{Mountain regions covered by protected areas} = \frac{\text{Protected mountain area}}{\text{Total area of mountain}} \cdot 100[\%]$$