DESTATIS | **Statistisches Bundesamt** | **ZIELE FÜR NACHHALTIGE ENTWICKLUNG**

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	**Key Biodiversity Areas (KBAs) covered by protected areas**

1. General information on the time series

- Date of national metadata: 17 June 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: February 2020
- Global metadata: https://unstats.un.org/sdgs/metadata/files/Metadata-15-04-01.pdf
- The time series is compliant with 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 as described in the global metadata.

4. Accessibility of source data

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

5. Metadata on source data

- Metadata on protected areas:
https://www.protectedplanet.net/en/thematic-areas/wdpa?tab=Methodology
- Metadata on the Digital elevation model (DEM) (only available in German):
https://sg.geodatenzentrum.de/web_public/gdz/dokumentation/deu/dgm10.pdf
- Metadata 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: %
- Calculation method:

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

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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 regions, covered by protected areas

1. General information on the time series

- Date of national metadata: 17 June 2021
- National data: http://sdg-indikatoren.de/en/15-4-1/
- Definition: The time series measures the protectet area in realation to the total area of mountain regions.
- Disaggregation: Not available.

2. Comparison with global metadata

- Date of global metadata: February 2020
- 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.

4. Accessibility of source data

- Data on protected areas:
https://www.protectedplanet.net/country/DEU
- Digital elevation model (DEM) (only available in German):
https://gdz.bkg.bund.de/index.php/default/digitale-geodaten/digitale-gelandemodelle/digitales-gelandemodell-gitterweite-10-m-dgm10.html

5. Metadata on source data

- Metadata on protected areas:
https://www.protectedplanet.net/en/thematic-areas/wdpa?tab=Methodology
- Metadata on the Digital elevation model (DEM) (only available in German):
https://sg.geodatenzentrum.de/web_public/gdz/dokumentation/deu/dgm10.pdf

6. Timeliness and frequency

- Timeliness: Not applicable.
- Frequency: Annual

7. Calculation method

- Unit of measurement: %

- Calculation method:

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