Call for Data 2023/24: Instructions
Version 31 January 2024

Coordination Centre for Effects (CCE)

1.   Introduction

At the 38th Task Force meeting of the ICP Modelling and Mapping (ICP M&M) along with the 29th meeting of the Coordination Centre for Effects on 3–5 May 2022 (ECE/EB.AIR/GE.1/2022/16–ECE/EB.AIR/WG.1/2022) the ICP M&M has agreed to issue a Call for Data (CfD) 2023 on empirical Critical Loads. The main objective of this Call for Data is to implement the recently reviewed and updated empirical Critical Load and to prepare a future item in the WGE/EMEP workplan 2024-2025 on applying next risk assessment including the $CL_{emp}N$. The deadline for the data delivery is set at 31 March 2024.

This document contains the instructions on how to reply to this Call for Data 2023/24. The call asks for updates of empirical critical loads ($CL_{emp}N$) on basis of the most recent numbers. (see references below)

Please note:
Please indicate as early as possible if you are planning to deliver data within this call. Please be aware that any early indication of your choice will help us to organize our workplan more efficient.

Please use plain text files (e.g. *.csv, *.txt) for submitting your critical loads.

2.   Documentation and other general information

The documentation should substantiate and justify sources and methods applied in response to this call, but be restricted to the data sources and deviations from the Mapping Manual (ICP M&M, 2017). If you are planning to submit data, please send an E-Mail to cce@uba.de. We will then contact you in order to establish the data exchange.

For this data submission we only ask for numbers for so called empirical critical loads for nitrogen ($CL_{emp}N$).

3.   The grid system

An *ecord* is the part of an ecosystem that lies entirely in a single 0.10°×0.05° Longitude-Latitude grid cell. A grid cell is referred to by its lower-left (south-west) grid coordinates in decimal degrees. You will need to overlay the grid with your maps containing the data to determine the locations (and potentially splitting up) of your critical loads.

4.   Proposed data format

The requested tables should be delivered in plain text files (e.g. *.csv, *.txt). Following tables should be provided separately.
ecords – General site data, such as coordinates.
CLempN – Empirical critical loads, with additional information.

Table 1. Attributes of the database-table '*ecords*'

Variable	Explanation	Note
SiteID	Unique(!) identifier of the site	1)
Lon	Longitude (decimal degrees)	2)
Lat	Latitude (decimal degrees)	2)
EcoArea	Area of the ecosystem within the grid cell (km^2)	3)
Protection	0: No specific nature protection applies 1: Special Protection Area (SPA), Birds Directive applies 2: Special Area of Conservation (SAC), Habitats Directive applies 3: SPA *and* SAC (1 *and* 2) 4: SPA *or* SAC (1 *or* 2) [don't know which one(s)] 9: A national nature protection program applies (but *not* 1 to 4!) -1: protection status unknown	
EUNIScode	EUNIS code, max. 6 characters	4)

Notes on Table 1 (see last column):

1) Use integer values only (4-bytes)!
2) The geographical coordinates of the site or a reference point of the polygon (sub-grid) of the receptor under consideration (in decimal degrees, i.e. 48.533 for 48º31', etc.);
3) Please don't submit spurious records with an ecosystem area smaller than 0.1 ha, unless it has relevance other than for exceedance calculations (e.g. Natura 2000 sites). Furthermore, make sure that the total ecosystem area does not exceed the size of the land area of your country in the respective grid cell;
4) You can find information on EUNIS at https://eunis.eea.europa.eu/habitats-code-browser-revised.jsp

Table 2. Attributes of the database-table '*CLempN*'

Variable	Explanation	Note
SiteID	Identifier of the site (see *ecords* Table)	
CLempN	Empirical critical load of nitrogen (eq ha^{-1} a^{-1})	
Derivation	1: Minimum value of the range 2: Maximum value of the range 3: Mean value of the range 4: Another method	
CLempN_ID	Link to the CLempN table provided by CCE (Integer)	1)

Notes on Table 2 (see last column):

1) If you choose to use the "*CLempN_export.xlsx*" table provided by the CCE (see: https://www.umweltbundesamt.de/en/call-for-data?parent=69334) please indicate which row was selected.

References

Bobbink R, Loran Ch, Tomassen H (eds), 2022. Review and revision of empirical critical loads of nitrogen for Europe., UBA TEXTE 110/2022, ISSN 1862-4804, UBA, Dessau-Roßlau https://www.umweltbundesamt.de/publikationen/review-revision-of-empirical-critical-loads-of

ICP Modelling and Mapping, Manual of Mapping Critical Loads for Ecosystems (2017), https://www.umweltbundesamt.de/en/cce-manual