

TEXTE

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Deutsches National Focal Centre des ICP Modelling & Mapping (CLRTAP)

Berichterstattung an das Coordination Centre for
Effects (CCE)

Anlage 1

UMWELTFORSCHUNGSPLAN DES
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Im Auftrag des Umweltbundesamtes

UMWELTBUNDESAMT

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Die in der Studie geäußerten Ansichten
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Enclosure
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Date 23 November 2011
Subject Call for NFC contributions 2011-2012

Dear Colleague,

At its 30th Session (Geneva, 27-29 September 2011), the Working Group on Effects requested the Coordination Centre for Effects (CCE) to issue a call for contributions. The focus would be on the use and testing of the dynamic modelling of changes of plant species diversity.

This work is not only of importance to the Convention but turns out to become increasingly important for the support of the strategies of the European Commission which address air quality and biodiversity. The CCE and IIASA were recently invited in Brussels to discuss effect-oriented indicators currently embedded in GAINS and under development. The further familiarization of NFCs with dynamic soil-vegetation model applications can be expected to lead to the kind of novel indicators that are relevant to the support of the EC strategies as well as the long-term strategy of the Convention.

Therefore, your response should address the following objectives:

i. An overview of endpoints considered by the NFCs:

At its 10th COP meeting (Nagoya, 29 October 2010) the CBD strategic plan for biodiversity 2011-2020, which is the basis for the EU biodiversity strategy to 2020, identified 5 strategic goals for biodiversity (including the so-called "AICHI targets"¹). For Europe, the EU specified six 2020-biodiversity targets².

NFCs are invited to indicate which targets, indicators and indices their application of dynamic models (with respect to the change of plant species diversity) is addressing. Indicators include EU's SEBI2010 indicators and indicators and indices as described in chapter 5 of CCE Status Report 2010. NFCs are encouraged to summarize their response in an Excel Table (will be sent soon) and elaborate their biodiversity targets, indicators and indices in their National Report.

¹<http://www.cbd.int/sp/targets/>

² COM(2011) 244 final:

[http://ec.europa.eu/environment/nature/biodiversity/comm2006/pdf/2020/1_EN_ACT_part1_v7\[1\].pdf](http://ec.europa.eu/environment/nature/biodiversity/comm2006/pdf/2020/1_EN_ACT_part1_v7[1].pdf)



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For more detailed background information, NFCs may wish to consult the following documents:

- "suggested indicators for the strategic plan for biodiversity 2011-2020 and the aichi biodiversity targets" (see <http://www.cbd.int/doc/meetings/sbstta/sbstta-15/official/sbstta-15-02-en.pdf>),
- "the report of the ad hoc technical expert group on indicators for the strategic plan for biodiversity 2011-2020" (see <http://www.cbd.int/doc/meetings/sbstta/sbstta-15/information/sbstta-15-inf-06-en.pdf>)
- "the overview of national indicators, monitoring and reporting for global biodiversity target" (see <http://www.cbd.int/doc/meetings/sbstta/sbstta-15/information/sbstta-15-inf-09-en.pdf>).

ii. *Application of biodiversity indices as summarized in the CCE Status Report 2010:*

NFCs are encouraged to test and report on the use of biodiversity indices (see e.g. in their national report. See the Annex to Chapter 4 in the CCE Status Report 2010, for a mathematical description of some relevant indices. However, requested output from vegetation models are (time series of) species lists with their probability/possibility/strength (as will be explained in the instructions).

iii. *Comparison of simulation results using different models:*

NFCs are encouraged to apply the VSD+Veg model (made available by CCE; see www.rivm.nl/cce under 'Methods and Models') as a common modelling basis. At the 2011 CCE workshop, NFCs offered to help each other in applying each others models.

iv. *Comparison of simulation results using different sites:*

NFCs are invited to make sites data available to other NFCs to enable model comparisons. The data of the sites for which you applied soil-vegetation modelling should be made available on the CCE ftp server. Conversely, NFCs are encouraged to test 'their' soil vegetation model, using the data made available by other NFCs and submit the results (Instructions will follow).

v. *Policy relevance: NFCs are invited to include nature protection areas (such as Natura 2000 areas) in their model testing:*

Although in reporting this focus is important, other sites should not be excluded. (knowledge derived from non-protected ecosystems is also useful and can help assess protected ecosystems of the same EUNIS class).

vi. *Regionalisation: NFCs are recommended to review the possibilities to use EUNIS classes, habitat classes and eco-regions as a basis for regionalisation:*

An 'Access-version' of VSD+Veg will be developed before the CCE workshop in Warsaw. Meanwhile NFCs are invited to compile data for representative sites of EUNIS classes (detailed instructions will follow).

vii. *Enlarge the Veg-database:*

NFCs are invited to help extending the Veg database of species. The most recent version of the Veg-table, *grndveg_may_14.csv*, can be found in the folder 'testset' after installing the Studio-version of VSD+Veg). See also Appendix B of



the forthcoming CCE Status Report 2011. NFCs could, e.g., try converting Ellenberg indices into Veg-parameters. Also, the applicability of the so-called TRY database (see Kattge et al., 2011, *Global Change Biology* 17: 2905-2935) could be investigated. Details on how to submit extensions to the Veg-database will be given in the Instructions.

In addition, NFCs are allowed to submit updates of their critical load database in the format of the 2010/11 Call for Data.

Technical instructions and material (as mentioned above) will be provided by the CCE in the near future.

Please understand that this call for contributions is an important milestone. Not only with respect to the ICP M&M implementation of the long-term strategy of the Convention 2010-2020, but also to prepare in the coming years for the scientific support of the EC thematic strategy on air pollution in conjunction with the biodiversity strategy 2020. Many NFCs started to collaborate with their habitat counterparts already, and this call is expected to further produce policy relevant results.

The CCE looks forward to a prosperous collaboration regarding this call, the results of which will be presented and discussed at the ICP M&M meetings in 2012 (Warsaw, 16-19 April 2012) and described in the CCE Status Report 2012.

With kind regards,

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