Für Mensch & Umwelt

Umwelt Bundesamt

35th ICP M&M Task Force Meeting

CCE perspective

Section II 4.3
Air Pollution Control and Terrestrial Ecosystems

Structure:

- Session 1, slot 16:15-17:00: Presentation of the CCE Team and current status of the CCE database
- Session 1, slot 17:00-17:30: Common vision of future TF – CCE – NFC collaboration
- Session 2, slot 09:00 – 09:10: Wrap-up of Session 1 and Intro Session 2
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Who we are?

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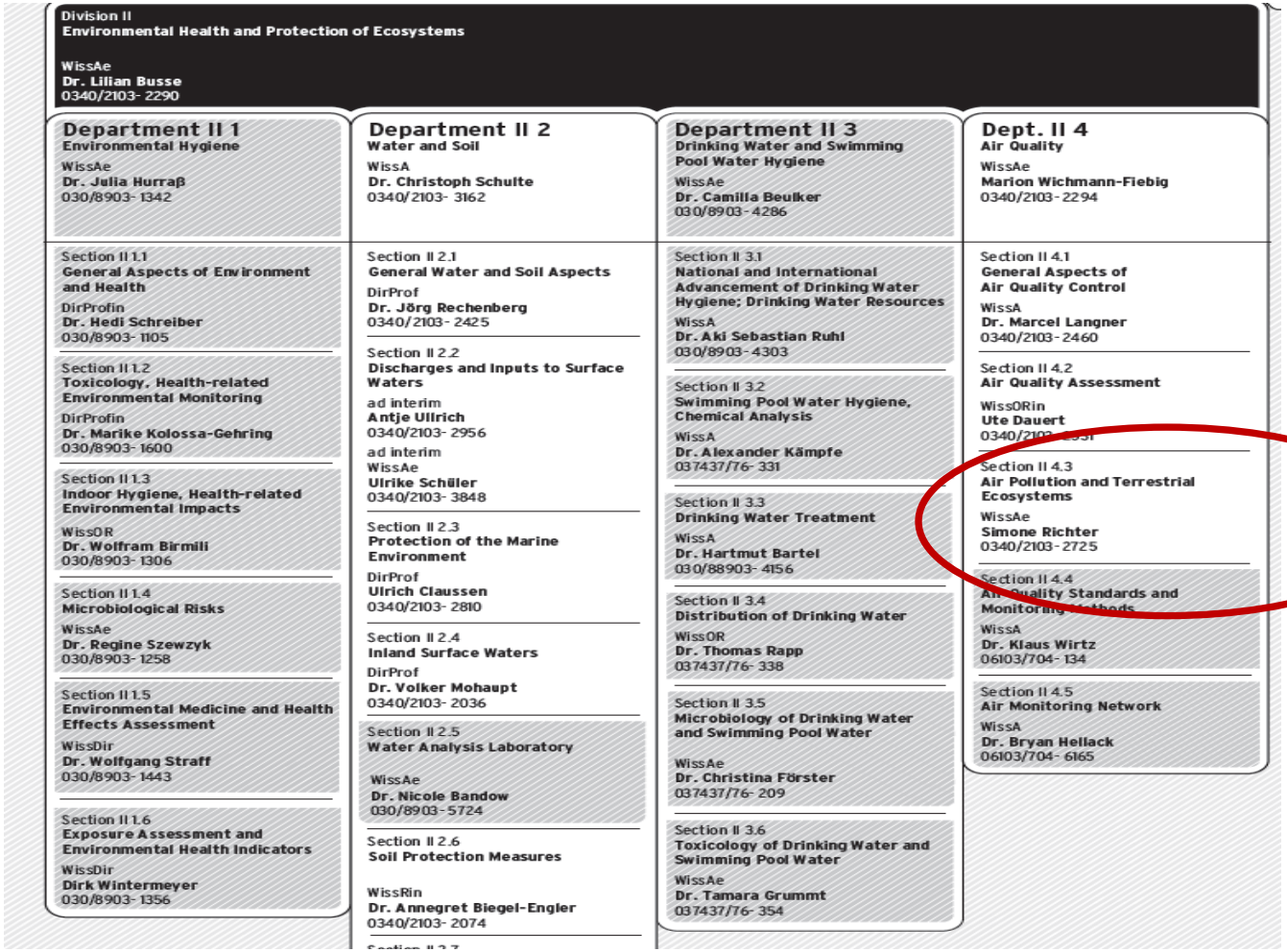
Division II
Environmental Health and Protection of Ecosystems
WissAe
Dr. Lilian Busse
0340/2103-2290
Department II 1
Environmental Hygiene
WissAe
Dr. Julia Hurraß
030/8903-1342
Section II 1.1
General Aspects of Environment and Health
DirProfin
Dr. Hedi Schreiber
030/8903-1105
Section II 1.2
Toxicology, Health-related Environmental Monitoring
DirProfin
Dr. Marike Kolossa-Gehring
030/8903-1600
Section II 1.3
Indoor Hygiene, Health-related Environmental Impacts
WissOR
Dr. Wolfram Birmili
030/8903-1306
Section II 1.4
Microbiological Risks
WissAe
Dr. Regine Szewzyk
030/8903-1258
Section II 1.5
Environmental Medicine and Health Effects Assessment
WissDir
Dr. Wolfgang Straff
030/8903-1443
Section II 1.6
Exposure Assessment and Environmental Health Indicators
WissDir
Dirk Wintermeyer
030/8903-1356
Department II 2
Water and Soil
WissA
Dr. Christoph Schulte
0340/2103-3162
Section II 2.1
General Water and Soil Aspects
DirProf
Dr. Jörg Rechenberg
0340/2103-2425
Section II 2.2
Discharges and Inputs to Surface Waters
ad interim
Antje Ullrich
0340/2103-2956
ad interim
WissAe
Ulrike Schüler
0340/2103-3848
Section II 2.3
Protection of the Marine Environment
DirProf
Ulrich Claussen
0340/2103-2810
Section II 2.4
Inland Surface Waters
DirProf
Dr. Volker Mohaupt
0340/2103-2036
Section II 2.5
Water Analysis Laboratory
WissAe
Dr. Nicole Bandow
030/8903-5724
Section II 2.6
Soil Protection Measures
WissRin
Dr. Annegret Biegel-Engler
0340/2103-2074
Department II 3
Drinking Water and Swimming Pool Water Hygiene
WissAe
Dr. Camilla Beulker
030/8903-4286
Section II 3.1
National and International Advancement of Drinking Water Hygiene; Drinking Water Resources
WissA
Dr. Aki Sebastian Ruhl
030/8903-4303
Section II 3.2
Swimming Pool Water Hygiene, Chemical Analysis
WissA
Dr. Alexander Kämpfe
037437/76-331
Section II 3.3
Drinking Water Treatment
WissA
Dr. Hartmut Bartel
030/88903-4156
Section II 3.4
Distribution of Drinking Water
WissOR
Dr. Thomas Rapp
037437/76-338
Section II 3.5
Microbiology of Drinking Water and Swimming Pool Water
WissAe
Dr. Christina Förster
037437/76-209
Section II 3.6
Toxicology of Drinking Water and Swimming Pool Water
WissAe
Dr. Tamara Grummt
037437/76-354
Dept. II 4
Air Quality
WissAe
Marion Wichmann-Fiebig
0340/2103-2294
Section II 4.1
General Aspects of Air Quality Control
WissA
Dr. Marcel Langner
0340/2103-2460
Section II 4.2
Air Quality Assessment
WissORin
Ute Dauert
0340/2103-
Section II 4.3
Air Pollution and Terrestrial Ecosystems
WissAe
Simone Richter
0340/2103-2725
Section II 4.4
Air Quality Standards and Monitoring Methods
WissA
Dr. Klaus Wirtz
06103/704-134
Section II 4.5
Air Monitoring Network
WissA
Dr. Bryan Hellack
06103/704-6165

Who we are?

Transition Team

Thomas Scheuschner:
expertice modelling and mapping CL,
data management, NFC ICP M&M and NFC ICP IM,
networks

Markus Geupel:
expertice CLTRAP, ICP M&M, TFRN,
experience modelling CL and deposition, networks

Christin Loran:
communication NFCs, data evaluation, website

Simone Richter:
administrative and contractual matters,
integration CCE – UBA

Marion Wichmann-Fiebig:
expertise international air quality politics, advice and support in strategic and scientific issues

Report on recent CCE activities during transition

FORMAL & ADMINISTRATIVE ISSUES

EXECUTIVE BODY DECEMBER 2017 (ECE/EB.AIR/140)

- Thanks Netherlands for hosting the CCE for the past 27 years
- Thanks Germany for taking over

- Memorandum of understanding between UBA and CLRTAP secretariat ready for signature
- work plan 2019 agreed at EB 2018 (ECE/EB.AIR/142) IV A 18. (h)
- Revised mandate under preparation with TF for discussion at the ICP M&M Meeting in Madrid
- Administration of coordination costs and personnel matters at UBA

WEBSITE

- New CCE website has been set up under: https://www.umweltbundesamt.de/en/cce
- Mailing under: cce@uba.de
- Data, reports, manual for the time being at CCE

CCE Workplan 2019

WORKPLAN
(i) Adapt existing IT Infrastructure and software at the German Environment Agency to fulfil data handling and communication tasks (2018–2019): set up of necessary storage capacities, set up of necessary web-space, review of the CCE background database on critical loads (CL), implementation of R-based calculations to perform CL calculations and mapping;

(ii) Develop framework and skills to improve the information exchange between CCE and National Focal Centres (NFCs; 2019): continue the collaboration on the "Call for data" on critical loads from 2017, develop new assessment tasks together with National Focal Centres, find common understanding for data-handling and presentation;

(iii) Start the collaboration with the ICP Modelling and Mapping and other bodies of the Convention (2018–2019): conduct consultation meetings between the Chair of the Task Force of ICP Modelling and Mapping, co-preparation and realisation of the ICP Modelling and Mapping meeting in Madrid (together with the Task Force of the ICP Modelling and Mapping), prepare and conduct meetings with the Centre for Integrated Assessment Modelling/the International Institute for Applied Systems Analysis, the Meteorological Synthesizing Centre -West, the ICP on Assessment and Monitoring of Air Pollution Effects on Forests (ICP Forests) and the ICP on Effects
of Air Pollution on Natural Vegetation and Crops (ICP Vegetation) to build up a
cooperation network within the Convention.

Report on recent CCE activities during transition

MEETINGS FOR TRANSITION

- INERIS: define collaboration, next necessary steps
- RIVM: Website-Transfer, Data-Transfer (NFC-data, background-database), knowledge-transfer
- Max Posch (IIASA): knowledge-transfer (bgdb, exceedance calculation)

WGE EXTENDED BUREAUX MEETING, Laxenburg

- Represent CCE
- Found common understanding CL-Exceedance Calculation for Policy Adice

INFORMAL MEETINGS

- PCC (collaboration, databases)
- US-EPA (CL Mapper)
- JRC Ispra (use of CL as indicator for biodiversity strategy)
- Involvement into Skype-Meeting on common WGE web portal

COMMUNICATION WITHIN ICP M&M

- Contact letter to National Focal Centers
- Extension of the Call for Data (2015/2017) until February 2019, first evaluation
- New starting point: Madrid 2-4 April 2019 defining future forms of collaboration: WELCOME!

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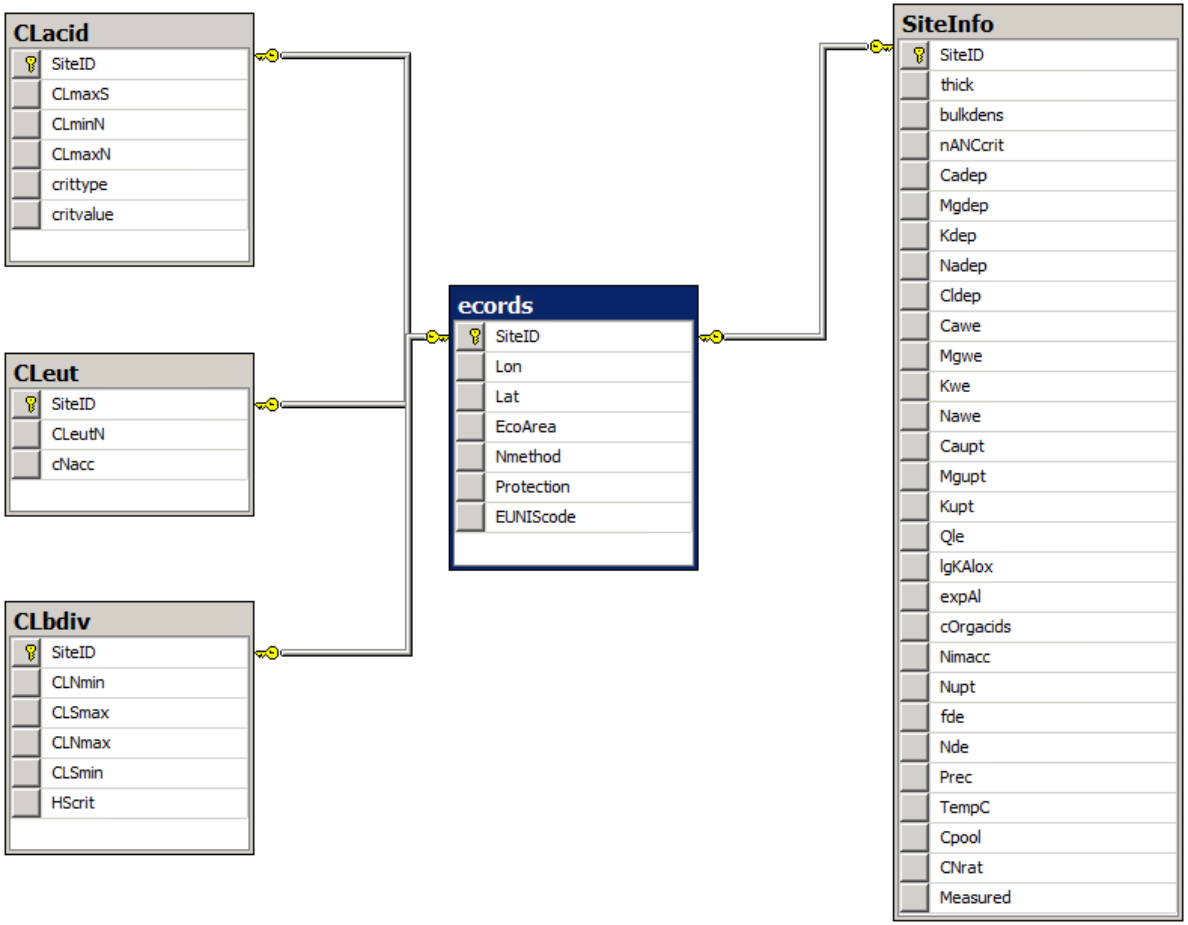
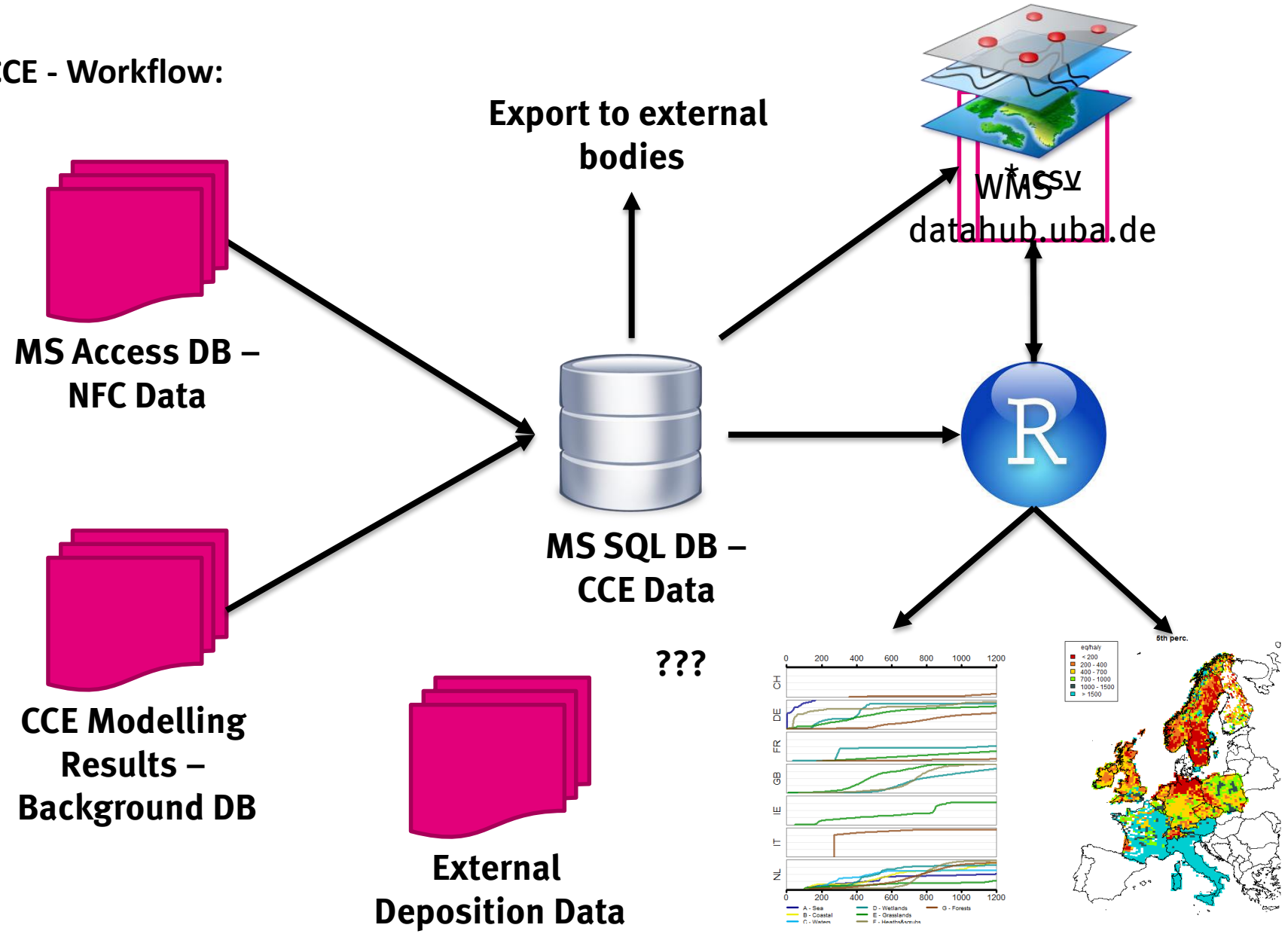
Current status of the CCE database:

- **IT-Infrastructure and Workflow**
- Website
- Recent Call for Data
- Technical issues in the near future

DB – Structure : Call for data 2015-2019



CCE - Workflow:



Structure:

- IT-Infrastructure and workflow
- **Website (www.Umweltbundesamt.de/en/cce, www.uba.de/en/cce)**
- Recent Call for Data
- Technical issues in the near future

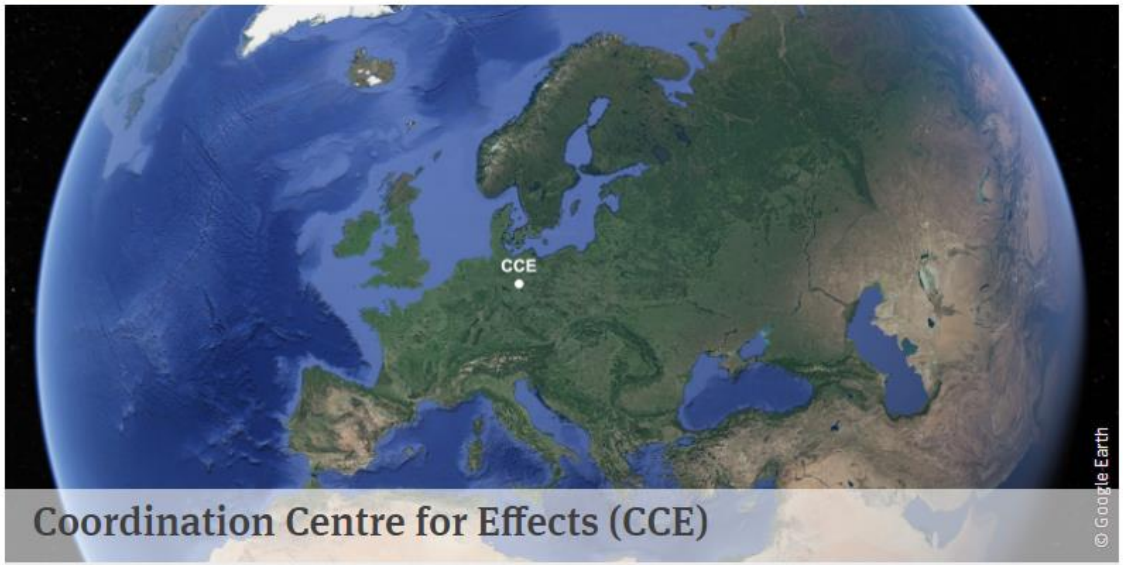
Umwelt Bundesamt

The UBA | Topics | Press | Publications | Data

Service | Sitemap | Disclaimer and privacy policy

› Coordination Centre for Effects (CCE)

Home | Data & Models | Manual | Publications | NFC



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The CCE is pleased to welcome you to its new website! In 2018 the CCE was transferred to the German Environment Agency (UBA, located in Dessau) from the Dutch National Institute for Public Health (RIVM), where it was established in 1990.

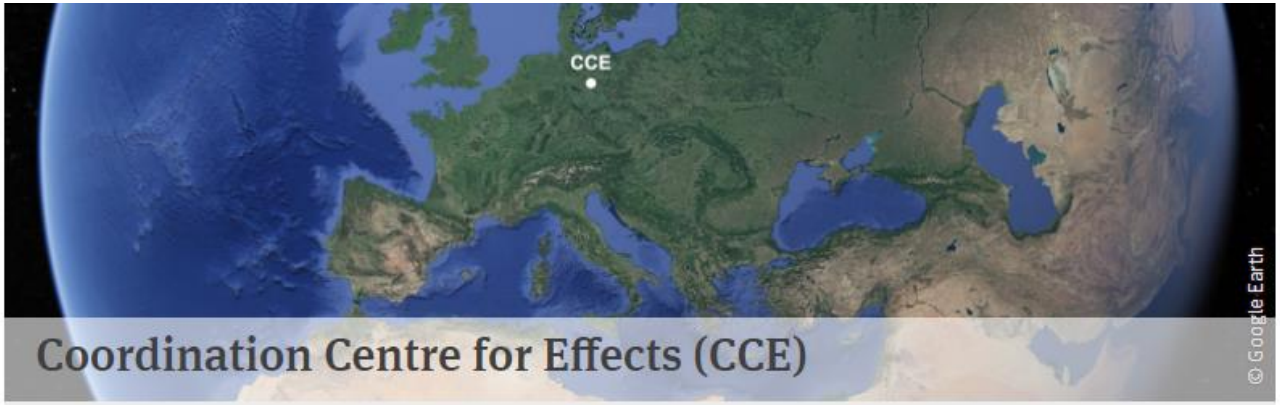
The objectives of the CCE are 1) to develop and update the methodologies enabling the assessment of critical loads; 2) to compile national data on critical loads into a European database; 3) to generate maps of European critical loads and their exceedances and to provide the results to the relevant bodies under the Convention on Long-range Transboundary Air

Contact

Coordination Centre for Effects
cce@uba.de

German Environment Agency
Section II 4.3 - "Air Pollution and Terrestrial Ecosystems"
Wörlitzer Platz 1
06844 Dessau
Germany

Session 1, slot 16:15-17:00: Status of CCE work



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Extension of Call for Data (2015/2017) until February 2019

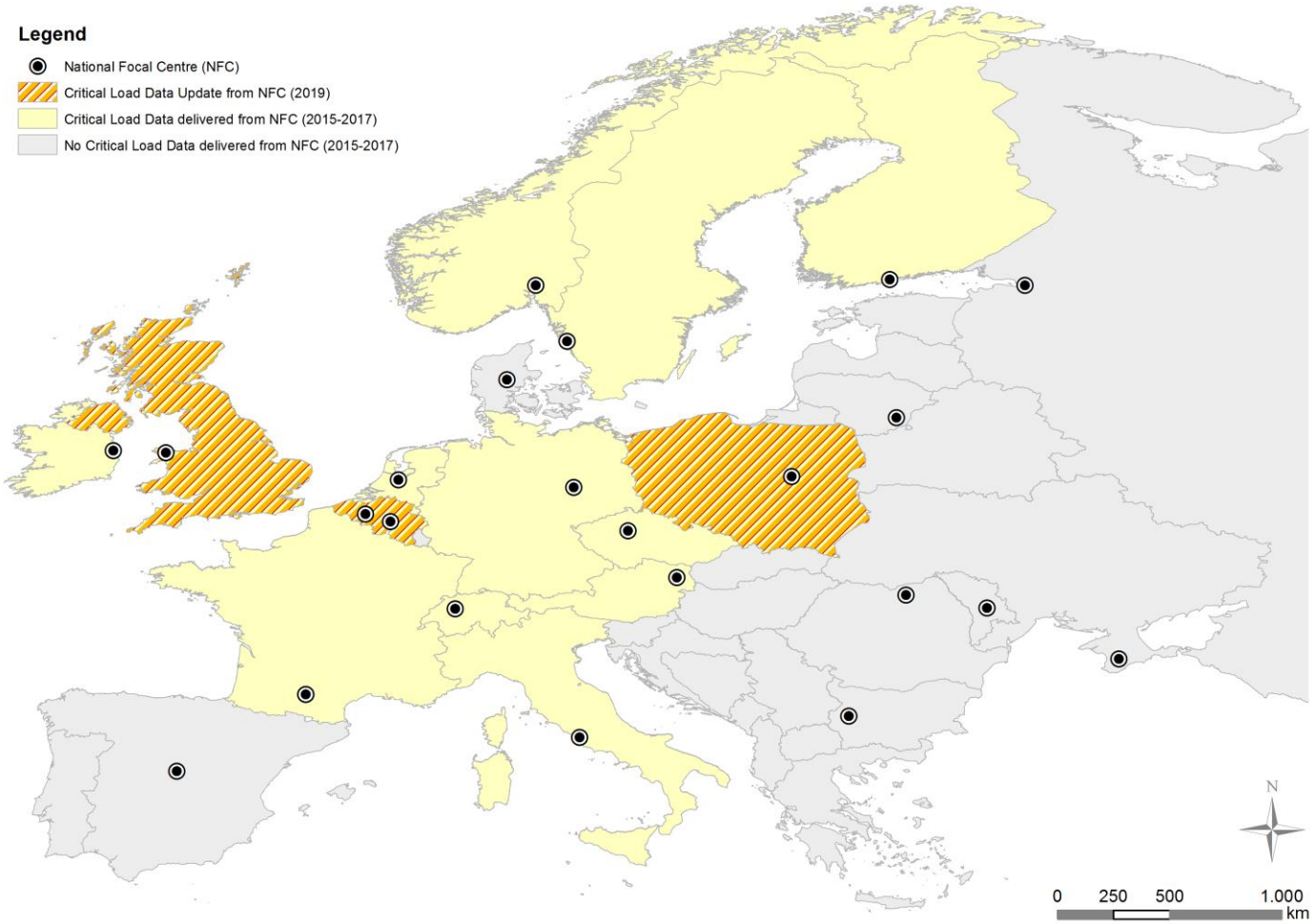
We are pleased to inform that the current call for data has been extended until **28 February 2019**. All NFCs are kindly asked to review their submissions to the CCE and revise as necessary. The instructions and the data format are identical to those in the Call for Data 2015-2017 and can be downloaded from the following links:

- **Extension of the Call for Data until February 2019**
- **Call for Data 2015-2017**
- **SMB Access database template**

Structure:

- IT-Infrastructure and workflow
- Website
- **Recent Call for Data**
- Technical issues in the near future

Call for Data 2015-2017 / Extension 2019



Call for Data 2015-2017 / Extension 2019

Tab. 1: Submitted ecosystem records ('ecords')

	Eutrophying N	Acidification	Biodiversity
AT	26 937	15 643	-
BE	27 763	25 542	-
CH	29 216	10 731	76
DE	1 266 997	1 266 997	1 266 997
FI	31 245	1 051	-
FR	38 992	38 992	38 992
GB	381 216	365 315	16 423
IE	191 856	153 762	-
IT	31 965	32 322	5
NL	84 797	68 470	67 396
NO	165 076	13 987	-
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SE	9 316	16 225	-

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Updates 2019

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Updates 2019

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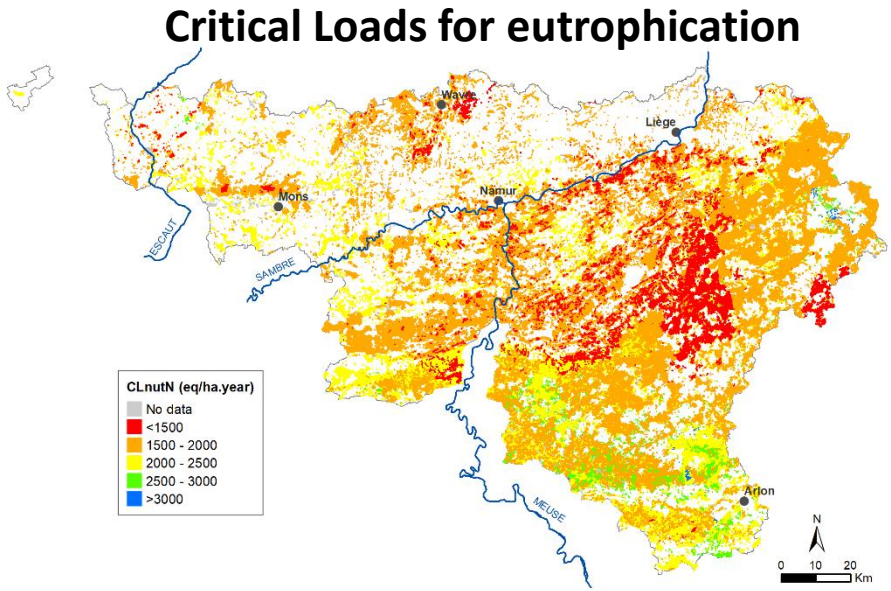
- Critical Loads data in **Wallonia** for forests and natural vegetation

- highest CL values: in calcareous soils under deciduous or coniferous forests



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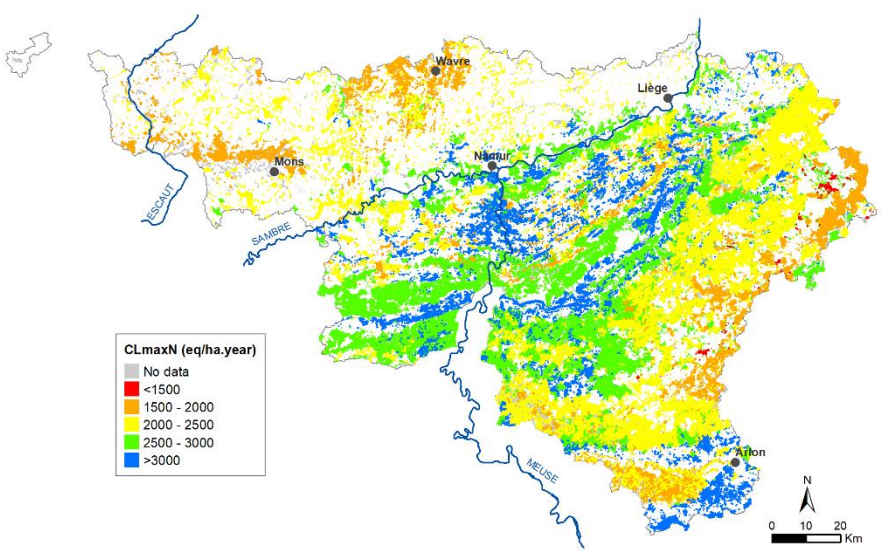
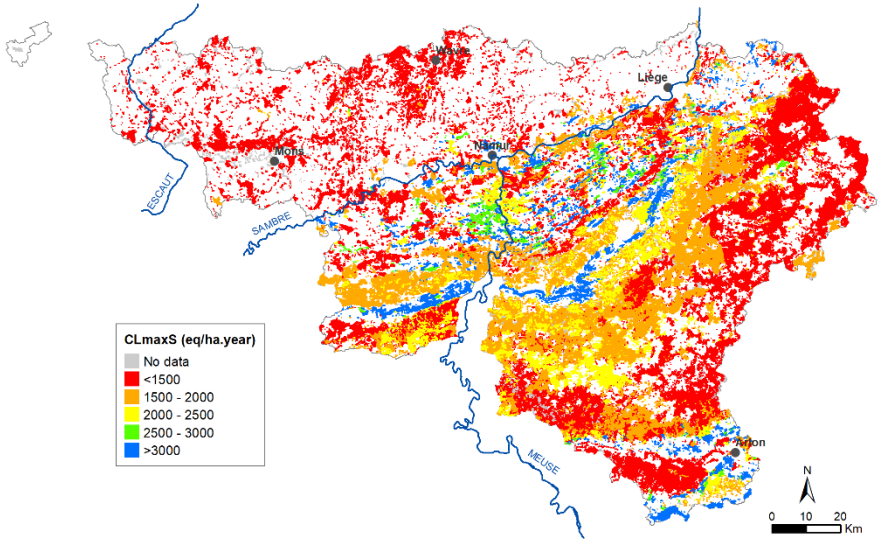
Critical Loads for acidification





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Updates 2019

Structure:

- IT-Infrastructure and workflow
- Website
- Recent Call for Data
- **Technical issues in the near future**

Technical issues for the near future:

- Extend DB schema to deal with NFC data import
- Design deposition data import and create exceedance calculation in R framework $$$

- Design Web Mapping Service and check the level of information NFC feedback is needed!
- Check the content of website with NFC
  NFC feedback is needed!
- Prepare web content of the WGE website
  NFC feedback is needed!

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Common vision of future TF – CCE – NFC collaboration

NEW "YOUNG" TEAM AND CHAIRMANSHIP

- Fresh activity, motivated for collaboration
- Restart, new ideas, new visions?
- Longterm continuity ahead, stable basis could be built up
- First task is to discuss a common mandate

COMMON PRIORITY TASK

- Keep ICP M&M data relevant to describe threats for ecosystems by air pollution
  - for policy makers (upcoming GP review)
  - the interested public (reports, brochures)
  - and the scientific community (publications)

Common vision of future TF – CCE – NFC collaboration

MANDATE

- Terms of reference (EB.AIR/WG.1/2000/4, Annexes II-VIII)
- revised mandates will include key objectives and functions of the task forces and centres.
- expected to be in force for the next 5 to 10 years
- Common mandate of TF and CCE, draft 2017
- Approval by WGE, September 2019

- TF (community of NFC)
  - organizes and evaluates the Programme's activities. It reviews and assesses methodologies and databases

- CCE
  - Collaboration with other convention and research groups
  - Reports, database, clearing house, Workshops
  - Develop methodologies and databases for the calculation of critical loads and their exceedances

- Parties (National Focal Centres)
  - ICP Modelling and Mapping activities are based on the contributions of the participating parties, either through their national focal centers or, in some cases, through informal submissions
  - Important role
  - Data collection, contribution to development of methodologies

Common vision of future TF – CCE – NFC collaboration

NATIONAL FOCAL CENTRE (NFC)

- How many national representatives do we have?
- How important is the official status of NFC?
- What is the difference between NFC and scientific contribution?

TO ENHANCE COLLABORATIVE CHARACTER, PROPOSAL TO RESTRUCTURE ICP MODELLING & MAPPING

- Proposal: Expert Panels
- e.g. SMB-Modelling, Empirical Critical Loads, CL for biodiversity,
- Stronger separation of the different topics, each of them scientifically challenging
- Chairperson? Mandate? ToR?

STABILIZE ASSESSMENT DATA

- Mid-term continuity of exceedance data, avoid discrepancies between different studies/reports
- Finding modus operandi without making NFCS “unemployed”

JOINT REPORTS AND PUBLICATIONS

- Lead CCE, stronger involvement of NFC
- Transparent data assessment, active involvement
- M&M Brochure?

Common vision of future TF – CCE – NFC collaboration

WORKING TOGETHER

- Vital exchange / interaction through-out a year
- Regular sharing of recent scientific forthcomings (new papers, studies)
- Set-up of a mailing –list? Setup of a common working space?
- Critical Load Wiki?

FINANCIAL STUFF

- CCE receives annual non-earmarked funds from the CLRTAP Trust Fund (= other Centers/TF).
  - 2018: 52.900 $
  - 2019: 73.200 $

  } ca. 110.000 €
- 1/3 overhead (→ 30.000 € in 2018)
- Projects, development, reports (layout)
- In-kind contribution by NFC activities is welcome/needed

CALL FOR DATA, CALL FOR CONTRIBUTION

- evaluate new tasks in the light of mid-term stable assessment data
- national funding of NFC is essential for collaboration
- Define tasks to merge national and International interests

Common vision of future TF – CCE – NFC collaboration

PROPOSALS FOR (MOST URGENT) SCIENTIFIC QUESTIONS

- SMB-Critical Loads (cross-border harmonisation, background database to fill gaps)
- Update of empirical Critical Loads (clarify possible future application in IAM)
- How to move on with CL for biodiversity (WGE still expects developments policy relevant indicators)?
- What shall be done with respect to Critical Levels?

CALL FOR CONTRIBUTION (WITHIN EXPERT GROUPS)
TO BE MOST EFFECTIVE WITH THESE MULTIPLE CHALLENGES?!

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Wrap-up of Session 1 and Intro Session 2

SUMMARY OF SESSION 1

STRUCTURE OF SESSION 2

- Scientifically structured (CL_{SMB}, CL_{emp}, CL_{biodiv})
- Stronger separation of the different topics, each of them scientifically challenging
- Proposal to form Expert groups/panels

EXPERTISE AND INVOLVEMENT OF NFC IN EACH OF THE TOPICS IS STRONGLY NEEDED!

- To which extent are NFCs able to contribute to all of these activities

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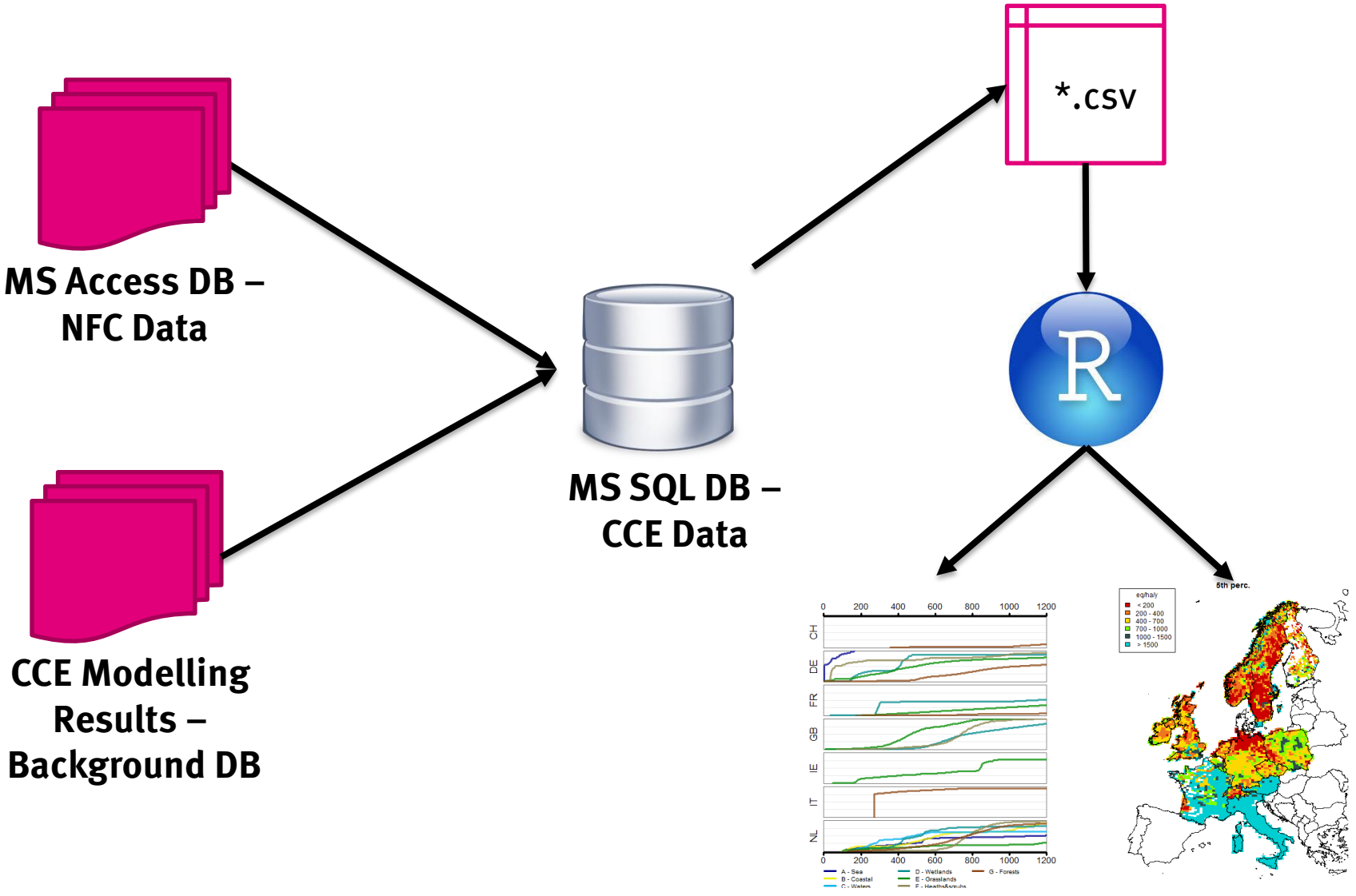

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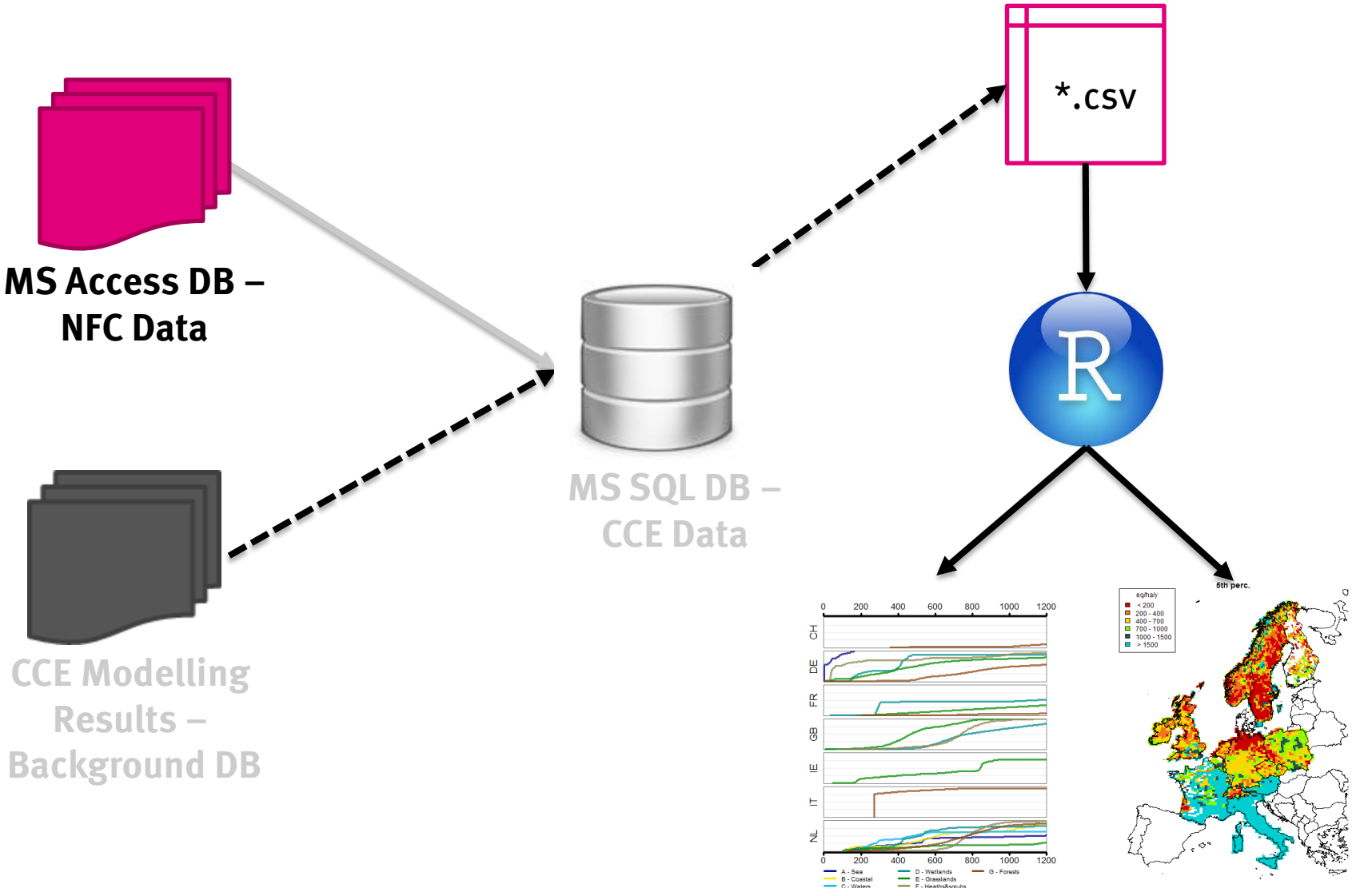

Conclusions:

- Urgent need to update the CCE Background DB
- Project description will soon be finalized (Project time frame 2019-2020) €€€
- NFC are welcome to participate and share expertise
- Structured discussion about SMB Parameters should be revived

National activities:

- Nitrogen immobilisation project (Thünen/ ICP Forests) €€€
- National application only (upscaling will be tested) €€€
- Project about the validation of the national Critical Load approach (Thünen/ ICP Forests) €€€
- Focus on Denitrification and Weathering of Base Cations

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- Session 2.1, slot 09:10 – 09:20: Into and methodological state of play (SMB)

- **Session 2.2, slot 11:00 – 11:10: Intro and methodological state of play (empCL)**

- Session 2.3, slot 14:00 – 14:10: Intro and methodological state of play (Further developments of critical loads)
- Session 3, slot 10:30 – 11:15: Presentation and discussion on draft revised mandate

Methodological state of play (emp CL):

- Main source is the publication of the proceedings of Noord WS (2011?)

- Last published dataset 2015, based on habitat classification made by Cinderby 2007 (not available for CCE)

- Clemp merged with ClnutN (CfD 2015-2019)

Methodological state of play (emp CL):

- Update of empirical CL would need:
- New of the Habitat map (Link to SMB project)
- Review of the empirical CL Tables (Bobbink et al)
- Research on linking both
- Next steps: CCE is planning a project (literature review) starting mid 2019 $$$
- This will not be enough for a complete review of CLempN!

Methodological state of play (emp CL):

- Remaining questions (selection):
- Should we kept CLnutN and CLempN merged?
- How to improve modifying factors?
- Could CLempN give indication for CL biodiv?
- Are there any new publication available? (ICP Forests)

Structure:

- Session 1, slot 16:15-17:00: Presentation of the CCE Team and current status of the CCE database
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Methodological state of play (Further developments of Critical Load):

- History (site specific models in spatial application, adaption of Critical Limits (DE))

- Background DB: Application of PROPS
- Bioscore data used to create vegetation releveés
- Vegetation data was then related to soil properties (pH), climate data (T, PP) and current deposition (Nitrogen)
- Current CCE is not in the position to recalculate or update the biodiversity CL results of the RIVM

Methodological state of play (Further developments of Critical Load):

- Remaining Questions (selection):
- Does the use of recent deposition creates a moving target?
- Which HIS threshold is valid?
- How to bring the different approaches together?
- Does the parameter choice of PROPS fit to ecological thinking?
- Is the whole thing to complex for policy support and for NFC?
- Is this the protection of Biodiversity as we mean it?

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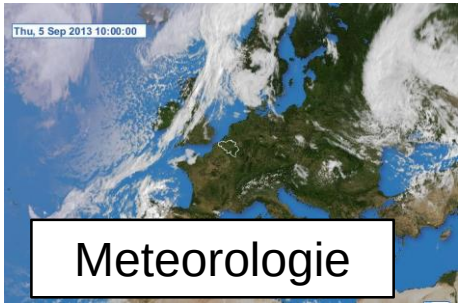
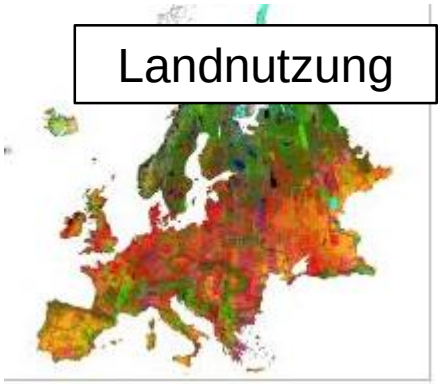
Todo -> Simone

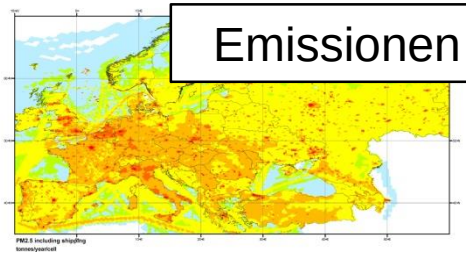
LOTOS-EUROS



Meteorologie



Landnutzung



Emissionen

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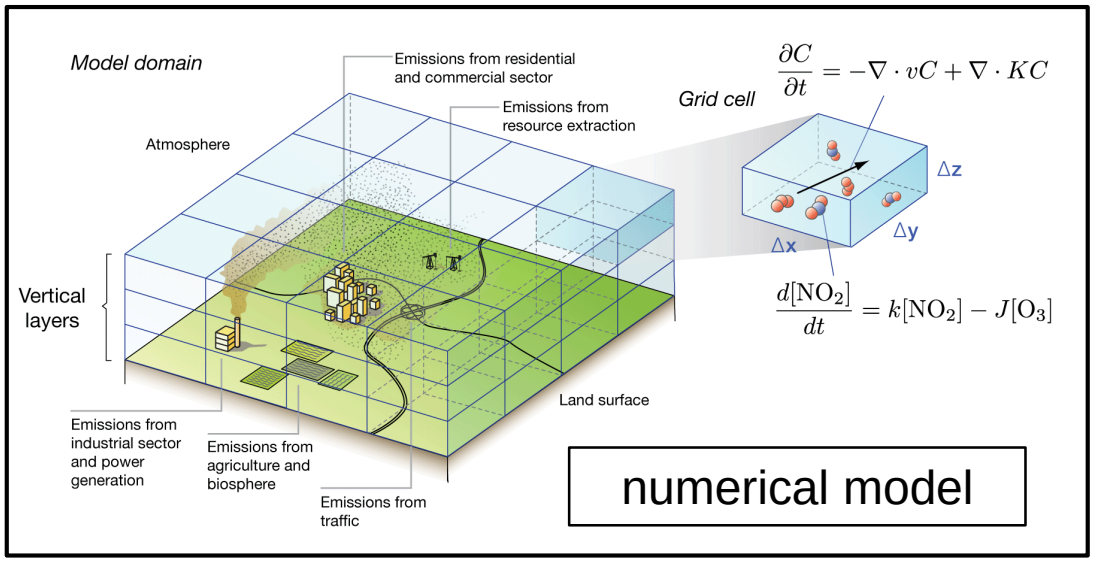
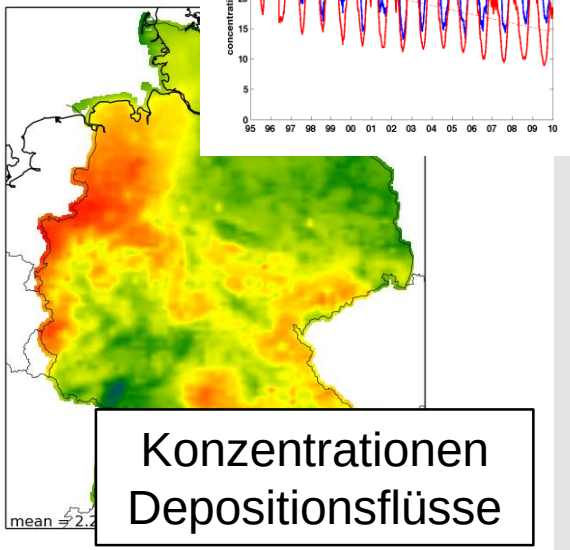


numerical model



Konzentrationen
Depositionsflüsse