

ICG-EMO & ICG-EUT Workshop on Threshold Values for Eutrophication and Nutrient Reduction Targets

Hamburg (Germany) 21-23 February 2023

Draft Agenda:

Start of the workshop: 1200 WET / 1300 CET Tuesday, 21 February 2023
Expected close of the workshop: 1500 WET / 1600 CET Thursday, 23 February 2023

Venue: German Climate Computing Centre¹
Deutsches Klimarechenzentrum
Bundesstraße 45a, 20146 Hamburg, Germany



Day 1: 21. February 2023

Part A: Introduction to the workshop

13:00 - 14:00 Introduction

- Welcome by Prof. Thomas Ludwig, CEO from German Climate Compute Centre (DKRZ) (10 min);
- Introduction and housekeeping matters (10 min);
- Workshop introduction ICG EUT needs (*Philip Axe, HASEC Chair, SWAM*) (20 min);
- Workshop introduction from ICG-EMO (*Hermann Lenhart, AquaEcology*) (20 min).

Part B: National presentations

14:00 – 16:40 National presentation from ICG-EMO Modellers

- A: Presentation of modelling activity for last ICG-EMO report, lessons learned and ideas for improvement (each 20 min, discussion right after presentation);
 - Model comparison (*Anouk Blauw, Deltares*)
 - TBNT analysis (*Hermann Lenhart & Fabian Große, AquaEcology & BfG*)
 - Sediment biogeochemical processes (*Martin Plus, Ifremer*)
 - Uncertainty Analysis (*Christoph Stegert (BSH)*)
- B: Parallel session for ICG-EUT;

17:00 – 18:00 Discussion

Discussion on ICG-EMO presentation and exchange with ICG-EUT on deliverables and timeline of new model comparison on maximum allowable nutrient input.

Day 2: 22. February 2023

Part C: Overview and discussion on generic threshold approach & further harmonisation of thresholds

9:00 - 10:40 Presentation on threshold derivation

- Threshold derivation from ICG-EMO model comparison (*Sonja van Leeuwen, NIOZ*);
- Problems with COMP 4 thresholds (*Wera Leujak, UBA*);
- UK application of relative approach (*Michelle Devlin, Cefas UK*);
- Lessons learned from the Interreg Project “Waterquality” (*Theo Prins, Deltares*).
- Lessons learned from implementing the Baltic Sea Action plan (*Bo Gustafsson, Stockholm University*);

10:40 - 11:00 Coffee break

11:00 – 13:00 Discussion on threshold derivation

13:00 – 14:00 Lunch Break

Part D: How to set up maximum allowable nutrient input scenario and what output is needed?

14:00 – 14:20 Introduction to conceptual setup for maximum allowable nutrient input scenario (Hermann Lenhart, AquaEcology)

14:20 - 15:40 Presentation from example reduction scenario (20 min each)

- MEME Model comparison study (*René Friedland, IOW*)
- WFD compliant reduction scenario from the Interreg Project (*Daniel Thewes, University Hamburg*)
- Deltares reduction scenario (*Theo Prins, Deltares et al.*)

15:40 – 16:00 Coffee Break

16:00 – 18:00 Discussion on maximum allowable nutrient input scenario

19:00 Social Event

Day 3: 23. February 2023

Part E: OSPAR objectives, comparable model setup, differences in model results and the question of uncertainty

9:00 – 9:20 Introduction to problem (Hermann Lenhart & Theo Prins)

9:20 – 10:40 Presentations

10:40 – 11:00 Coffee break

11:00 – 13:00 Wrap up of workshop and final discussion

13:00 – 14:00 Lunch Break

Optional

14:00 – 16:00 ICG-EMO discussion on technical implementation of newly defined scenarios