

SEEDS Final General Assembly

5th – 6th December 2023 - Hybrid meeting in Toulouse, France

Final Agenda

Tuesday 5th December (10:00-17:00) - Added value of SEEDS emission products

10:00 - 10:15 The SEEDS project: achievements and lessons learnt (Leonor Tarrasón, NILU)

10:15 - 10:30 The SEEDS project and perspectives from CAMS (V-H Peuch, ECMWF)

10:30 – 10:45 Added-value of the SEEDS data assimilation scheme (Emanuele Emili, BSC)

Block 1: Industrial emissions

10:45 – 11:05 Lessons learnt for SEEDS NO_x emissions from industrial plants (Ronald Van der A, KNMI)

11:05 – 11:15 Experiences with use satellite data for industrial emissions at EEA: strengths and limitations (Federico Antognazza, EEA)

11:15 – 11:30 *Coffee break*

11:30 – 11:50 Alternative approaches to derive industrial emissions from satellite data (Henk Eskes, KNMI)

11:50 – 12:10 The planned use of satellite data in CAMS for industrial emissions (Jeroen Keunen, TNO)

12:10 – 12:30 Panel discussion: Perspectives on use of EO products for industrial emissions

12:30 – 13:30 *Lunch break*

Block 2 – Emissions in cities

13:30 – 13:50 SEEDS NO_x emissions in cities, links to CAMEO and further cooperation with CAMS (Ronald Van der A, KNMI)

13:50 – 14:10 Needs and expectations from different stakeholders to EO emission data - Summary from the SEEDS Stakeholder seminar from 28th November (Isadora Jimenez, Lobelia)

Block 3: Fire and Biogenic Emissions

14:10 – 14:35 Fire emissions in SEEDS (Jenny Stavrakou, BIRA-IASB)

14:35 – 15:00 Perspectives for European scale services on Fires (Johannes Keiser, NILU)

15:00 – 15:15 *Coffee break*

15:15 – 15:30 SEEDS top-down BVOC emissions: an outlook for CAMS (Glenn-Michael Oomen, BIRA-IASB)

15:30 – 15:45 Perspectives on BVOC emission estimates from CAMS (Kateřina Šindelářová, MFF CUNI)

15:45 – 16:00 SEEDS approach to Bottom -up BVOC emissions (Paul Hamer, NILU)

16:00 – 16:30 Added value of SEEDS emission products for daily forecasts (Joaquim Arteta, MFF)

16:30 – 17:00 Panel discussion: Perspectives on use of EO products for urban and biogenic emissions

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Wednesday 6th December (10:00-16:00) - Added value of SEEDS surface fluxes

Block 4: Agricultural emissions

- 10:00 – 10:20 SEEDS NH₃ emissions (Jieying Ding, KNMI)
10:20 – 10:40 SEEDS Soil emissions of NO_x and comparison with CAMS (Ronald van der A, KNMI)
10:40 – 11:10 Evaluation of SEEDS agricultural emissions in Denmark (Camilla Geels, AU)
- 11:10 – 11:25 *Coffee break*
- 11:25 - 11:45 Experience in Northern Italy with ammonia (NH₃): emissions, using in situ observations and satellite derived products (Alessandro Marongiu ARPA Lombardia)
- 11:45 – 12:00 Added value of SEEDS agricultural emission products for daily forecasts (Joaquim Arteta, MFF)
- 11:30 – 12:00 Panel discussion: Perspectives on use of EO products for agricultural emissions
- 12:00– 13:00 *Lunch Break*

Block 5: Deposition fluxes and yields

- 13:00 – 13:20 SEEDS Nitrogen and Ozone dry depositions (Paul Hamer, NILU)
13:20 – 13:40 Implementation of bidirectional flux in DEHM, MATCH and EMEP and links to SEEDS (Lise Marie Frohn Rasmussen, AU)
13:40 – 14:00 Dry Deposition perspectives in CAMS (David Simpson, MET NORWAY)

Block 6 : Physical information on SM and LAI

- 14:00 -14:20 SEEDS Soil Moisture and LAI products and links to CORSO (Jean-Christophe Calvet, CNRM)
14:20 - 14:40 Potential use of remote sensing data on canopy and soils to represent surface-atmosphere exchange of pollutants and GHG. (Benjamin Loubet, INRAE)
14:40 – 15:00 Added value of SEEDS deposition in CAMS (Joaquim Arteta, MeteoFrance)
- 15:00 – 15:30 Panel discussion Perspectives on SEEDS surface flux products for agriculture users
- 15:30 - 16:00 Closing remarks (Leonor Tarrason, NILU)