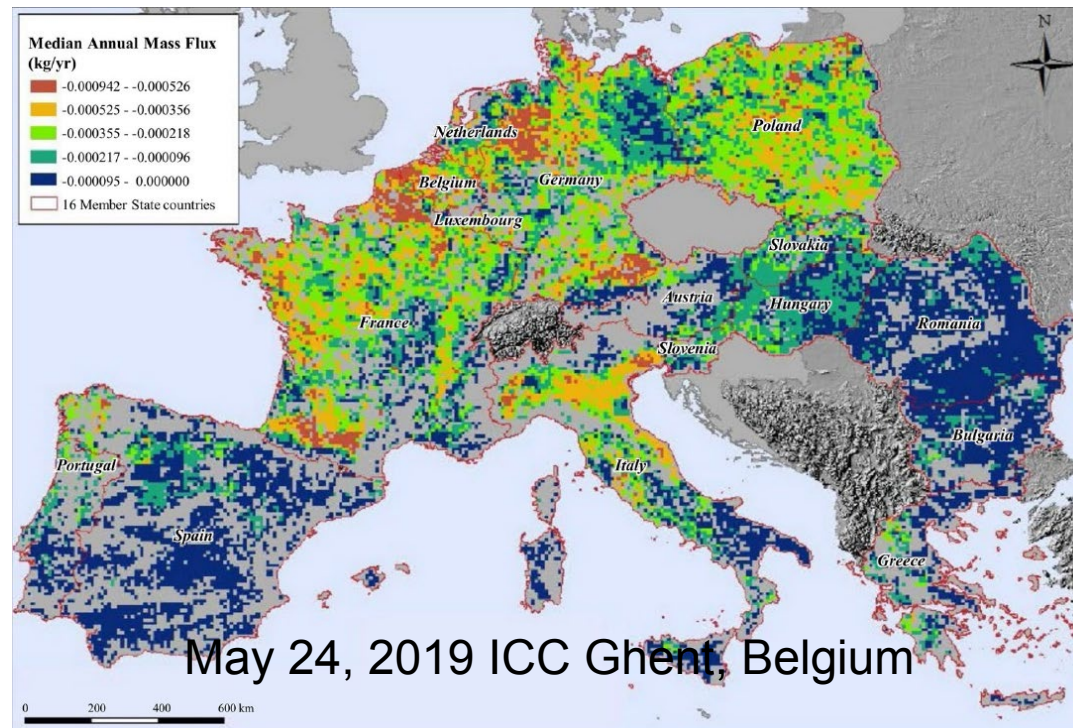


Workshop on Spatially Distributed Leaching Modelling of Pesticides

Ghent, May 24, 2019

Erik van den Berg, Michael Klein, Gerco Hoogeweg, Paul Sweeney, Robin Sur, Bernhard Jene



Motivation for this workshop:

1. Resolutions of the 9th European Modelling Workshop in 2018 in Copenhagen

- A dialog is needed on a spatial modelling framework needed for:

selecting appropriate monitoring sites

setting existing sites into context.

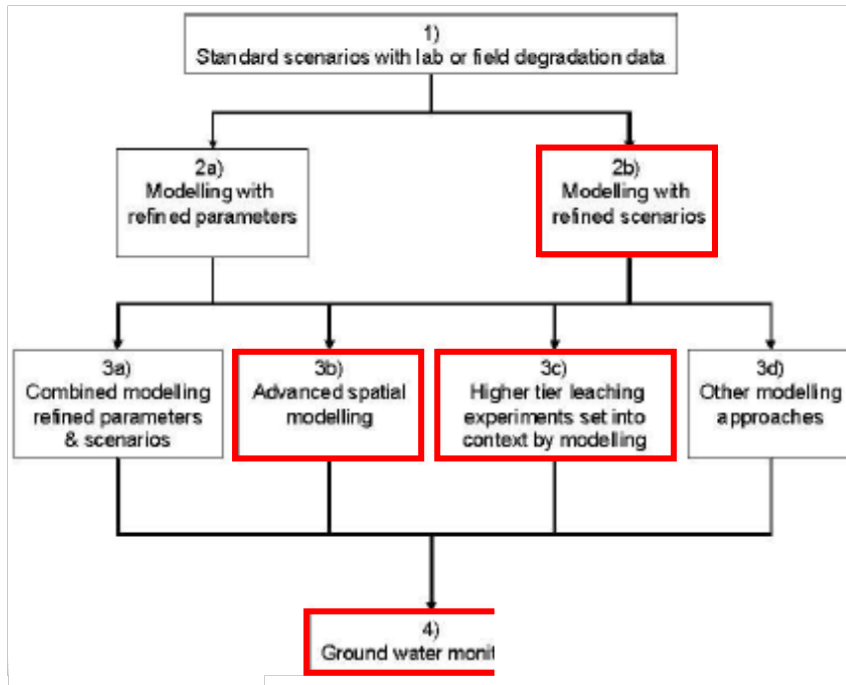
requirements on input and output of appropriate spatially-distributed models

- Version control is needed for high-resolution spatial databases for the EU

2. Spatially distributed modelling is already used in higher tier assessment and this will probably become more important in future

Use of spatially distributed modelling

FOCUS higher tier, 2009 (2014)



GeoPEARL Austria

Journal of Consumer Protection and Food Safety
<https://doi.org/10.1007/s00003-019-01211-x>

Journal of Consumer Protection and Food Safety
 Journal für Verbraucherschutz und Lebensmittelsicherheit

GROUNDWATER MONITORING STUDIES



Conducting groundwater monitoring studies in Europe for pesticide active substances and their metabolites in the context of Regulation (EC) 1107/2009

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General requirements for a Spatially Distributed Modelling system

In order to achieve a sufficient level of acceptance by stakeholders the modelling systems need to meet several conditions comparable to the Tier 1 FOCUS leaching models.

Validation status: The system needs to be tested and compared to calculations with single Unique Combinations using the respective FOCUS model. Plausibility checks also need to be performed.

Documentation: The system needs a document in which the data used, the model concepts, the model output as well as the way the system can be run is described in a comprehensive and transparent way.

Version control: Version control similar to that for the FOCUS software packages is necessary

Accessibility: The modelling tool needs to be accessible to all relevant stakeholders. There needs also to be a possibility for risk assessors to access the system to test or reproduce results that are submitted.

Maintenance: Needs to be assured for more than 5 years

WORKSHOP ON SPATIALLY DISTRIBUTED LEACHING MODELLING

Ghent, Belgium; 24 May 2019 - Final programme

First session:	Workshop target and key-note speakers
9.00 – 9.15	Welcome by organizers and workshop target
9.15 – 9.30	Introduction of participants
9.30 – 9.50	Keynote lecture Aaldrik Tiktak (PBL, The Netherlands) Elements and options for a spatially distributed modelling framework
9.50 – 10.10	Keynote lecture Anton Poot (Ctgb, The Netherlands) Experiences using spatially distributed models in the Netherlands – a regulatory perspective
10.10 – 10.30	Keynote lecture Michael Stemmer (AGES, Austria) Experiences using spatially distributed models in Austria
10.30 – 10.45	Coffee break
10.45 – 11.05	Keynote lecture Paul Sweeney (Syngenta) Experiences using spatially distributed models – an industry perspective
11.05 – 11.25	Keynote lecture Marc van Liedekerke (JRC, Italy) Characteristics, availability and quality control of geo-spatial data for spatially distributed modelling
11.25 – 12.25 BJ)	First session breakout discussion groups: 1 input data (GH, PS), 2 model requirements (EvdB, MK), 3 regulatory aspects (RS, BJ)
12.25 – 12.45	First plenary session: summary of breakout sessions
12.45 – 13.15	Lunch
13.15 – 14.00	Second session breakout discussion groups : 1 input data, 2 model requirements, 3 regulatory aspects
14.00 – 15.00	Second plenary session: results breakout discussion groups, recommendations and follow-up actions
15.00	Closure of workshop

SDLM Workshop Outcomes and Next Steps

Envisioned Outcomes

- Agreement on need for framework for SLDM supported by MS
- Inventory of model concepts and data requirements
- Preparation of workshop report with summary of discussions on subtopics data, modeling framework and regulatory aspects as well as recommendations
- Identify a member state that could lead this effort
- Alignment with SETAC EMAG-GW

Next Steps

- “Combined” meeting with SEATC EMAG-GW (Piacenza Sept 2, 2019)
- Present summary of findings during the Pesticide Chemistry Symposium in Piacenza