

SPRING SCHOOL

Hands-on Digital Soil Mapping 2022

Programme

Monday 16 May to
Friday 20 May 2022



The Digital Soil Mapping course is a live on-line course. Therefore it is required to be online at the time indicated in the programme. All times are Central European Summer Time zone (CEST), that is UTC+2.

This training is provided through the ISRIC “community of practice.” The community is geared towards national soil information providers, and is also a relevant place for people who produce and work with large soil datasets and/ or create soil information products such as digital maps.

[Sign up here to join the community](#)

Day 1 Monday, 16 May 2022

08.30 – 09.00 | [Online coffee](#)

09.00 – 9.30

[Opening](#)

Welcome by ISRIC director Rik van den Bosch, course introduction and overview by Gerard Heuvelink

09.30 – 10.30

[Geostatistics for soil mapping](#)

Lecture by Gerard Heuvelink

10.30 – 11.00 | *Morning break*

11.00 – 12.30

[Geostatistics for soil mapping](#)

Lecture by Gerard Heuvelink

12.30 – 14.00 | *Lunch*

14.00 – 15.30

[Geostatistics for soil mapping](#)

Computer practical by Gerard Heuvelink and David Rossiter

15.30 – 16.00 | *Afternoon break*

16.00 – 17.00

[Geostatistics for soil mapping](#)

Computer practical and feedback by Gerard Heuvelink and David Rossiter



Zoom Passcode: may2022!

Day 2 Tuesday, 17 May 2022

09.00 – 10.30

[Geostatistics for soil mapping](#)

Lecture by Gerard Heuvelink

10.30 – 11.00 | *Morning break*

11.00 – 12.30

[Soil and covariate data preparation](#)

Lecture by Giulio Genova

12.30 – 14.00 | *Lunch*

14.00 – 15.30

[Soil and covariate data preparation](#)

Lecture and computer practical by Giulio Genova, Laura Poggio and David Rossiter

15.30 – 16.00 | *Afternoon break*

16.00 – 17.00

[Soil and covariate data preparation](#)

Lecture and computer practical and feedback by Giulio Genova, Laura Poggio and David Rossiter



Zoom Passcode: may2022!

Day 3 Wednesday, 18 May 2022

09.00 – 10.30

[Remote and proximal soil sensing](#)

Lecture by Titia Mulder and Fenny van Egmond

10.30 – 11.00 | *Morning break*

11.00 – 12.30

[Remote and proximal soil sensing](#)

Computer practical and feedback by Titia Mulder and Fenny van Egmond

12.30 – 14.00 | *Lunch*

14.00 – 15.30

[Machine learning for soil mapping](#)

Lecture and computer practical by Bas Kempen and Laura Poggio

15.30 – 16.00 | *Afternoon break*

16.00 – 17.00

[Machine learning for soil mapping](#)

Computer practical by Bas Kempen and Laura Poggio



Zoom Passcode: may2022!

Day 4 Thursday, 19 May 2022

09.00 – 10.30

Machine learning for soil mapping

Computer practical by Bas Kempen and Laura Poggio

10.30 – 11.00 | *Morning break*

11.00 – 12.30

Sampling for statistical validation

Lecture by Dick Brus

12.30 – 14.00 | *Lunch*

14.00 – 15.30

Sampling for statistical validation

Lecture and computer practical by Dick Brus and David Rossiter

15.30 – 16.00 | *Afternoon break*

16.00 – 17.00

Sampling for statistical validation

Computer practical and feedback by Dick Brus and David Rossiter

📺 Zoom Passcode: may2022!

Day 5 Friday, 20 May 2022

09.00 – 10.30

Mapping plant-available soil water and nutrients

Lecture and computer practical by Johan Leenaars

10.30 – 11.00 | *Morning break*

11.00 – 12.30

Mapping plant-available soil water and nutrients

Computer practical and feedback by Johan Leenaars and Maria Ruiperez-Gonzalez

12.30 – 14.00 | *Lunch*

14.00 – 14.45

Virtual excursion World Soil Museum

Stephan Mantel

14.45 – 15.45

Course evaluation

15.00 – 15.15 | *Afternoon break*

15.15 – 16.15

How useful are DSM products?

Invited lecture by ISRIC guest researcher David Rossiter

16.15 – 16.30

Closing words

📺 Zoom Passcode: may2022!

Overview

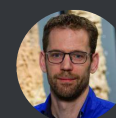
This course introduces methods and software for management, analysis and mapping of soil type and soil properties within the R environment for statistical computing.

Lecturers



Gerard Heuvelink

Course coordinator
Geostatistics, uncertainty quantification



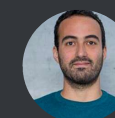
Bas Kempen

Machine learning



Laura Poggio

Data preparation, machine learning



Giulio Genova

Soil and covariate data preparation



Fenny van Egmond

Remote and proximal soil sensing



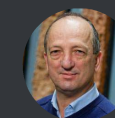
Johan Leenaars

Mapping plant-available soil water and nutrients



Maria Ruiperez-Gonzalez

Mapping plant-available soil water and nutrients



Stephan Mantel

Virtual visit World Soil Museum



David Rossiter

Geostatistics, data preparation, sampling for statistical validation, guest lecture



Titia Mulder

Guest lecturer
Remote and proximal soil sensing



Dick Brus

Guest lecturer
Sampling for statistical validation