

**International Courses of Digital Soil Mapping**

Moscow, 14-18 of November 2013

PROGRAM

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| 14 November | Dokuchaev Soil Science Institute |
| 9.00-9.30  9.30-10.00  10.00-10.45  10.45-11.15  11.15-12.00  12.00-12.45  12.45-14.00 | Registration  Welcome + objectives of the week (C. Ballabio/P. Krasilnikov)  Interactive needs analysis for Digital Soil Mapping (GIS, databases, statistical approaches) (A. Rozanov)  Coffee break  EU/world soil databases (C. Ballabio)  Russian soil databases (O. Golozubov)  Lunch |
| 14.00-14.45  14.45-15.30  15.30-16.00  16.00-16.45  16.45-17.30  17.30-18.30 | Soil information: from data collection to spatial interpolation in soil studies (A. Rozanov)  Introduction to the R language (C. Ballabio)  Coffee break  Spatial data interpolation in soil studies, (J. Meshalkina)  Uncertainties evaluation of legacy and modern soil data: case study of arable dark- grey forest soils (Albic Phaeozems) (V. Samsonova)  Questions and discussion |
| 15 November | Dokuchaev Soil Science Institute |
| 9.00-9.45  9.45-10.30  10.30-11.00  11.00-11.45  11.45-12.30  12.30-14.00 | Using ArcMap/SAGAgis for digital soil mapping (C.Ballabio)  The use of DEMs for soil interpolation, geomorphometrics (C.Ballabio)  Coffee break  Soil-landscape relation models for large-scale DSM. The evaluation of uncertainty of soil maps (D. Kozlov)  Large-scaled agroecological maps (N. Sorokina)  Lunch |
| 14.00-14.45  14.45-15.30  15.30-16.00  16.00-16.45  16.45-17.30  17.30-18.30 | Large-scale soil mapping using traditional and DSM approach (P. Krasilnikov)  Computer processing of remotely-sensed images (M. Konyushkova)  Coffee break  Remote sensing and DSM for soil assessment (I. Savin)  GlobalSoiMap.net: aims, specifications, challenges (I. Savin)  Questions and discussion |
| 16 November | Moscow State University, Soil Science Faculty |
| 9.00-10.45  10.45-11.15  11.15-13.00  13.00-14.00 | Practicals: Morphometric analysis of topography, the map of the elements of meso-relief as a basis for field sampling net planning (D. Kozlov)  Coffee break  Soil mapping for forest management in South African Republic using Q-GIS (A. Rozanov)  Lunch |
| 14.00-15.30  15.30-16.00  16.00-17.30 | Practicals: Indicative mapping of soil properties (humus, pH) dependent on the characteristics of topography (D. Kozlov)  Coffee break  Practicals: Variogram assessment and peculiarities of kriging-based maps (V. Samsonova) |
| 17 November | Moscow State University, Soil Science Faculty |
| 9.00-10.45  10.45-11.15  11.15-13.00  13.00-14.00  14.00-15.30  15.30-16.00  16.00-17.30 | Practicals: DSM exercise  based on the Ebergotzen case study in which the students will derive a map of soil properties from point data using remotely sensed data and terrain features as covariates (C. Ballabio)  Coffee break  Practicals (C. Ballabio, continued)  Lunch  Practicals: Computer processing of remotely-sensed images (M. Konyushkova)  Coffee break  Practicals: Computer processing of remotely-sensed images (M. Konyushkova) |
| 18 November | Dokuchaev Soil Science Institute |
| 9.00-10.00  10.00-11.00  11.00-12.30  12.30-13.00 | DSM for soil research, conservation and management (I. Savin)  Extended data collection for DSM and soil surveys (A. Rozanov).  The future perspectives for DSM: Open discussion (C. Ballabio)  Closing ceremony |