

# Whole Farm Soil Mapping In the Mayfield subcatchment of the Peel - Harvey Coastal hotspot

## WHOLE FARM SOIL MAPPING



ABOVE: Whole Farm Soil Map (Sulphur Status)  
INSET: Darryl Robinson, one of the twenty two farmers in the Mayfield subcatchment of Peel-Harvey, to be involved in SWCC's whole farm soil mapping project. Contact: Jenny Rowbottom

### PROJECT TITLE

Whole Farm Soil Mapping- In the Mayfield subcatchment in the Peel - Harvey Coastal hotspot

### PROJECT DURATION

November 2012 - June 2013

### PROJECT LEADER

Jenny Rowbottom (SWCC)

### BENEFICIARIES

Water ways and farmers within the Mayfield subcatchment

### PROJECT MANAGER

Emily Hugues-dit-Ciles (SWCC)

### PARTNERSHIP

Department of Food and Agriculture, Western Australia (DAFWA)



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Department of Agriculture and Food



# Soil Mapping A Case Study At Haselb 3vol

**Don Gotterbarn, Keith W. Miller, John  
Impagliazzo, Ahmad Zaki Bin Abu  
Bakar**

### **Soil Mapping A Case Study At Haselb 3vol:**

**Soil Mapping** D. K. Smee,1975      **A Case-based Reasoning Approach to Fuzzy Soil Mapping** Xun Shi,2002      **A Case Study on Detail Soil Survey & Its Interpretation** Birendra Swaroop Dwivedi,Risikesh Thakur,Rajesh Tiwari,2016-07-16      **Applied soil mapping for planning, development and conservation: a pilot study** John Michael Hodson,1990      **Soil Mapping and Process Modeling for Sustainable Land Use Management** Paulo Pereira,Eric Brevik,Miriam Muñoz-Rojas,Bradley Miller,2017-03-13 Soil Mapping and Process Modeling for Sustainable Land Use Management is the first reference to address the use of soil mapping and modeling for sustainability from both a theoretical and practical perspective The use of more powerful statistical techniques are increasing the accuracy of maps and reducing error estimation and this text provides the information necessary to utilize the latest techniques as well as their importance for land use planning Providing practical examples to help illustrate the application of soil process modeling and maps this reference is an essential tool for professionals and students in soil science and land management who want to bridge the gap between soil modeling and sustainable land use planning Offers both a theoretical and practical approach to soil mapping and its uses in land use management for sustainability Synthesizes the most up to date research on soil mapping techniques and applications Provides an interdisciplinary approach from experts worldwide working in soil mapping and land management      **Computing Ethics** Don Gotterbarn,Keith W. Miller,John Impagliazzo,Ahmad Zaki Bin Abu Bakar,2016-03-01 This textbook emphasizes a diversity of values from different cultures religions and geographical locations The book is designed to assist students computing professionals and faculty members to act in a more professional and ethical manner Compelling case studies ethical reasoning and cultural perspectives will be included throughout the book and the authors will apply lessons learned over many years of intense involvement in computing ethics The text is appropriate either as a main text in a stand alone ethics course or as a supplementary text for other related courses      **Digital Soil Mapping** Janis L. Boettinger,David W. Howell,Amanda C. Moore,Alfred E. Hartemink,Suzann Kienast-Brown,2010-06-28 Digital Soil Mapping is the creation and the population of a geographically referenced soil database It is generated at a given resolution by using field and laboratory observation methods coupled with environmental data through quantitative relationships Digital soil mapping is advancing on different fronts at different rates all across the world This book presents the state of the art and explores strategies for bridging research production and environmental application of digital soil mapping It includes examples from North America South America Europe Asia and Australia The chapters address the following topics evaluating and using legacy soil data exploring new environmental covariates and sampling schemes using integrated sensors to infer soil properties or status innovative inference systems predicting soil classes properties and estimating their uncertainties using digital soil mapping and techniques for soil assessment and environmental application protocol and capacity building for making digital soil mapping operational around the globe      **Digital Soil Mapping**

**Across Paradigms, Scales and Boundaries** Gan-lin Zhang, Dick Brus, Feng Liu, Xiao-Dong Song, Philippe Lagacherie, 2016-02-15 This book contains papers presented at the 6th Global Workshop on Digital Soil Mapping held 11-14 November 2014 at the Institute of Soil Science Chinese Academy of Sciences of Nanjing China Digital soil mapping is advancing on different fronts at different paces throughout the world The researches and applications on DSM are moving from method development to realizations in different scales and regions serving the generation of national and continental to global soil grids Meanwhile new ideas and insights on mapping complex soil landscapes such as flat plains anthropogenically altered agriculture and urban spaces are emerging with the help of new paradigms and models The goal of the sixth workshop was to review and discuss the state of the art in digital soil mapping and to explore strategies for bridging research production and environmental applications This book provides a very useful and comprehensive overview of the status of digital soil mapping in which graduate students scientists and specialists working within the field of geography can find the spatial prediction approaches and related theory

**Application of Machine Learning for Soil Survey Updates** Sakthi Kumaran Subburayalu, 2008 Abstract Machine learning techniques were used to build predictive soil landscape models for two counties Monroe and Noble in southeastern Ohio Twenty five different environmental correlates including 10m resolution raster coverages of terrain and its derivatives climate geology and historic vegetation were used as predictor variables for soil class Randomly sampled points proportionate to the area of the different soil classes from the published soil survey of Monroe County SSURGO were used to train the soil landscape model Since map units can contain more than one component soil series each sample point within a map unit can possibly belong to any one of them Hence there is ambiguity in labeling of the training instances with appropriate soil series A kNN based heuristic approach was used to disambiguate the training set labels The training sets were further preprocessed for removal of outliers and for selection of fewer attributes Modeling was performed using two learning algorithms namely J48 classification tree and Random Forest RF The map models were then evaluated for the quality of prediction using two prediction rate measures and two landscape fragmentation statistics Generally Random Forest recorded a higher prediction rate and greater contiguity when compared to J48 However Random Forest over predicted soils such as Gilpin Guernsey Zanesville and Captina Series which occupy large areas at the cost of prediction accuracy of soils which occurred in smaller proportions The results showed that the highest prediction rate based on the dominant soil series 0 5 and higher values of contiguity index 0 83 and aggregation index 84 2 for RF was observed in the model built using the training set preprocessed for disambiguation This suggests an improvement in the quality of predicted maps as a result of disambiguation The model predictions were helpful in locating many individual component series in soil consociations and associations The maps were useful in identifying areas of uncertainty such as misplacement of polygon boundaries incorrect labeling and disparity along the county edges which could serve as a guide for further field investigations The predicted models also provided valuable information for rationalizing the

mapping intensity for adjacent SSURGO maps

**Digital Soil Mapping with Limited Data** Alfred E. Hartemink, Alex B. McBratney, Maria de Lourdes Mendonça-Santos, 2008-07-11 Significant technological advances have been few and far between in the past approximately one hundred years of soil survey activities. Perhaps one of the most innovative techniques in the history of soil survey was the introduction of aerial photographs as base maps for land mapping which replaced the conventional base map laboriously prepared by planimeter and alidade. Such a relatively simple idea by today's standards revolutionized soil surveys by vastly increasing the accuracy and efficiency. Yet even this innovative approach did not gain universal acceptance immediately and was hampered by a lack of aerial coverage of the world, funds to cover the costs, and in some cases a reluctance by some soil mappers and cartographers to change. Digital Soil Mapping (DSM) which is already being used and tested by groups of dedicated and innovative pedologists is perhaps the next great advancement in delivering soil survey information. However, like many new technologies, it too has yet to gain universal acceptance and is hampered by ignorance on the part of some pedologists and other scientists. DSM is a spatial soil information system created by numerical models that account for the spatial and temporal variations of soil properties based on soil formation and related environmental variables. Lagacherie and McBratney 2007

*Improving Soil Survey Methodology Using Advanced Mapping Techniques and Grid-based Modelling Case Study - Baranja, Croatia* Tomislav Hengl, 2000

*Disaggregating Soil Mapping Units* John Stuijver, 2006

*Disaggregating Soil Mapping Units* John Stuijver, 2006

**Digital Soil Mapping**, 2006-12-18 The book compiles the main ideas and methodologies that have been proposed and tested within these last fifteen years in the field of Digital Soil Mapping (DSM). Beginning with current experiences of soil information system developments in various regions of the world, this volume presents the state of the art of different topics covered by DSM: Conception and handling of soil databases, sampling methods, new soil spatial covariates, Quantitative spatial modelling, Quality assessment and representation of DSM outputs. This book provides a solid support to students, researchers, and engineers interested in modernising soil survey approaches with numerical techniques. It is also of great interest for potential soil data users. A new concept to meet the worldwide demand for spatial soil data. The first compilation of ideas and methodologies of Digital Soil Mapping. Offers a variety of specialities: soil surveying, geostatistics, data mining, fuzzy logic, remote sensing techniques, Geographical Information Science. Written by 82 researchers from 13 different countries

**Predictive Soil Mapping with R** Tomislav Hengl, Robert A. MacMillan, 2018-12-20 Predictive Soil Mapping (PSM) is based on applying statistical and/or machine learning techniques to fit models for the purpose of producing spatial and/or spatiotemporal predictions of soil variables, i.e. maps of soil properties and classes at different resolutions. It is a multidisciplinary field combining statistics, data science, soil science, physical geography, remote sensing, geoinformation science, and a number of other sciences. Predictive Soil Mapping with R is about understanding the main concepts behind soil mapping, mastering R packages that can be used to produce high quality soil maps, and about optimizing all processes involved so that also the production costs can be reduced. The online version of

the book is available at <https://envirometrix.github.io/PredictiveSoilMapping> Pull requests and general comments are welcome. These materials are based on technical tutorials initially developed by the ISRIC's Global Soil Information Facilities (GSIF) development team over the period 2014–2017. *Soil survey and the study of water in unsaturated soil* J. Bouma, 1977

**3D Advance Mapping of Soil Properties** Fabio Veronesi, 2012. Soil is extremely important for providing food, biomass and raw materials, water and nutrient storage, supporting biodiversity and providing foundations for man-made structures. However, its health is threatened by human activities which can greatly affect the potential of soils to fulfil their functions and consequently result in environmental, economic and social damage. These issues require the characterisation of the impact and spatial extent of the problems. This can be achieved through the creation of detailed and comprehensive soil maps that describe both the spatial and vertical variability of key soil properties. Detailed three-dimensional (3D) digital soil maps can be readily used and embedded into environmental models. Three-dimensional soil mapping is not a new concept. However, only with the recent development of more powerful computers has it become feasible to undertake such data processing. Common techniques to estimate soil properties in the three-dimensional space include geostatistical interpolation or a combination of depth functions and geostatistics. However, these two methods are both partially flawed. Geostatistical interpolation and kriging, in particular, estimate soil properties in unsampled locations using a weighted average of the nearby observations. In order to produce the best possible estimate, this form of interpolation minimises the variance of each weighted average, thus decreasing the standard deviation of the estimates compared to the soil observations. This appears as a smoothing effect on the data and, as a consequence, kriging interpolation is not reliable when the dataset is not sampled with a sampling design optimised for geostatistics. Depth function approaches, as they are generally applied in literature, implement a spline regression of the soil profile data that aims to better describe the changes of the soil properties with depth. Subsequently, the spline is resampled at determined depths and for each of these depths a bi-dimensional (2D) geostatistical interpolation is performed. Consequently, the 3D soil model is a combination of a series of bi-dimensional slices. This approach can effectively decrease or eliminate any smoothing issues, but the way in which the model is created by combining several 2D horizontal slices can potentially lead to erroneous estimations. The fact that the geostatistical interpolation is performed in 2D implies that an unsampled location is estimated only by considering values at the same depth, thus excluding the vertical variability from the mapping and potentially undermining the accuracy of the method. For these reasons, the literature review identified a clear need for developing a new method for accurately estimating soil properties in 3D, the target of this research. The method studied in this thesis explores the concept of soil-specific depth functions, which are simple mathematical equations chosen for their ability to describe the general profile pattern of a soil dataset. This way, fitting the depth function to a particular sample becomes a diagnostic tool. If the pattern shown in a particular soil profile is dissimilar to the average pattern described by the depth function, it means that in that region there are localised changes in the soil profiles and these

can be identified from the goodness of fit of the function This way areas where soil properties have a homogeneous profile pattern can be easily identified and the depth function can be changed accordingly The application of this new mapping technique is based on the geostatistical interpolation of the depth function coefficients across the study area Subsequently the equation is solved for each interpolated location to create a 3D lattice of soil properties estimations For this way of mapping this new methodology was denoted as top down mapping method The methodology was assessed through three case studies where the top down mapping method was developed tested and validated Three datasets of diverse soil properties and at different spatial extents were selected The results were validated primarily using cross validation and when possible by comparing the estimates with independently sampled datasets independent validation In addition the results were compared with estimates obtained using established literature methods such as 3D kriging interpolation and the spline approach in order to define some basic rule of application The results indicate that the top down mapping method can be used in circumstances where the soil profiles present a pattern that can be described by a function with maximum three coefficients If this condition is met as it was with key soil properties during the research the top down mapping method can be used for obtaining reliable estimates at different spatial extents

Digital Soil Mapping P. Lagacherie, 2007 Digital soil mapping current state and perspectives conception and handling of soil databases sampling methods for creating digital soil maps new environmental covariates for digital soil mapping quantitative modelling for digital soil mapping example of predicting soil classes example of predicting soil attributes quality assessment and representation of digital soil maps

Digital Soil Mapping with Limited Data Alfred E. Hartemink, Alex B. McBratney, Maria de Lourdes

Mendonça-Santos, 2008-08-12 There has been considerable expansion in the use of digital soil mapping technologies and development of methodologies that improve digital soil mapping at all scales and levels of resolution These developments have occurred in all parts of the world in the past few years and also in countries where it was previously absent There is almost always a shortage of data in soil research and its applications and this may lead to unsupported statements poor statistics misrepresentations and ultimately bad resource management In digital soil mapping maximum use is made of sparse data and this book contains useful examples of how this can be done This book focuses on digital soil mapping methodologies and applications for areas where data are limited and has the following sections i introductory papers ii dealing with limited spatial data infrastructures iii methodology development and iv examples of digital soil mapping in various parts of the globe including USA Brazil UK France Czech Republic Honduras Kenya Australia The final chapter summarises priorities for digital soil mapping

**Mapping of the Soil** Jean-Paul Legros, 2006 A treatise on soil cartography it deals with methods and techniques use of computers and application of statistics for mapping soil cover and covers things required for the interpretation of results obtained and for determining the most economical itinerary to attain that purpose

## **Soil Mapping A Case Study At Haselb 3vol** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Soil Mapping A Case Study At Haselb 3vol**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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