

Proceedings of Interaction meeting on Digital Soil Mapping between David G. Rossiter, ISRIC - World Soil Information, Wageningen (NL); Phillipe Lagacherie (INRA) and Cecile Gomez (IRD), France

Location: ICAR-NBSS&LUP, Bangalore

Date: 08-12-2022 to 09-12-2022

Presentations and discussion

David Rossiter explained the background, structure and progress of the Soil Intelligence System for India, in particular its activities in DSM.

Philippe Lagacherie proposed “local” DSM approaches, and therefore novel ways to collect and use soil data as inputs to such models.

Cécile Gomez presented approaches to Vis-NIR lab spectroscopy and remote sensing for soil characterisation and mapping.

S. Dharumarajan presented a results of “IndianSoilGrids” project. Several case studies were presented from Karnataka, Andhra Pradesh, Kerala, Rajasthan and Maharashtra. Applications included spatializing a crop model (STICS), defining fertility management units, and mapping C sequestration potential. Challenges and future directions were presented.

Discussion: In the afternoon a vigorous discussion ensued. A main focus was on the uses of DSM products. What scales are appropriate? Is it possible to reach farm scale or are the products more useful for project targeting? What are the specific areas and possible institutional arrangements for collaboration and data/product sharing?

Dr. B. P. Bhaskar, Director, NBSS&LUP gave final remarks and encouraged cooperation among the parties.

Collaboration: Possibilities NBSS&LUP collaboration in **CSISA:** The “Soil Intelligence System for India” project was discussed

Field visit: On 9.12.2022, International team visited Bagapalli Taluk and interacted with Reward Field staffs on soil profile study and mapping of land resources.





List of CIMMYT participants:

1. David G. Rossiter, consultant
2. Dr. Poonia, CSISA Bihar
3. Dr. Bhavani Pinjara, GIS/remote sensing specialist
4. Dr. Harshit Rajan, GIS/remote sensing specialist

List of French Team

1. Phillipe Lagacherie (INRA)
2. Cecile Gomez (IRD),

List of NBSS&LUP, Bangalore participants

1. Dr. Rajendra Hedge, Principal Scientist and Head
2. Dr. V. Ramamurthy, Principal Scientist
3. Dr. S. Srinivas, Principal Scientist
3. Dr. S. Dharumarajan, Senior Scientist
4. Dr. Sunil Maske, Senior Scientist
4. Dr. R. Vasundhara, Senior Scientist
5. Dr. R. Srinivasan, Senior Scientist
6. Dr. B. Kalaiselvi, Scientist
7. Dr. KS. Karthika, Scientist
8. Dr. K.V. Niranjana, CTO
9. Dr. Arthi, CTO
10. Dr. Venkatesh, ACTO

List of Online participants

1. Dr. B.P. Bhaskar, Director
2. Dr. N. G. Patil
3. Dr. M.S.S. Nagaraju
4. Dr. P.T. Tiwary
5. Dr. Uday Saikia
6. Dr. Jaya N. Surya
7. B.N. Ghosh
8. Dr. G.P. Obi Reddy
9. Dr. Tapati Banerjee
10. Dr. K. Karthikeyan
11. Dr. D. Vasu
12. Dr. Nirmal Kumar
13. Dr. P.C. Moharona
14. Dr. H. Biswas
15. Dr. Sunil BH
16. Tarit Chattopadhyay
17. Other scientists from HQrs and RC