

Book Chapters 2012-2013

- Banerjee T., Sah K. D. (2012). Door-Sangbedan O Bhougolik Tathya Paddhatir Madhyame Bhagirathi Nadir Gatiprakiti Parjalochana (Bengali), Ganga:Jal-O-Manush, pp.111- 114.
- Bhaskar, B.P. (2012). Landscape analysis in soil surveys. Remote sensing and GIS in Digital Terrain analysis and Landscape modeling. (Ed. Obi Reddy, G.P. and Dipak Sarkar) NBSS & LUP Publ.No.152. pp. 39-51.
- Bhaskar, B.P., Sarkar Dipak and Baruah, U. (2012).Characterization and Management of Hydric soils for Agricultural Use At Majuli River Island, Assam, India.(Ed. Pawan Kumar, B and Avnish, C) Environmental Botechnology and Application. Discovery Publishing House Pvt. Ltd., New Delhi. Chapter 10. pp. 161-177.
- Bhattacharyya, T., Kundu, S., Benbi, D.K., Mandal, B., Mandal, U., Subba Rao, A., Sarkar, D., Ray, S.K., Chandran, P., Pal, D. K., Mandal, C., Telpande, B. A., Tiwary, P., Lokhande, M.A., Deshmukh, A.S. and Varma, S. (2012). Interpolation of Village Level Datasets through Krigging in different Agro-Eco Subregions, *In: Proceedings of National Seminar on Geospatial Solutions for Resource Conservation and Management* (Ed. D.K. Prabhuraj, R. S. Reddy, T. R. Sreedhara Murthy, S. Vadivelu, K. Ashoka Reddy, B.P. Lakshmikantha, A. S. Rajashekar, Sanjana S Bakre, Prathima K.) J. N. Tata Auditorium, Indian Institute of Science, Bengaluru, pp 45-52.
- Bhattacharyya, T., Pal, D.K., Chandran, P., Ray, S.K. and Mandal, C. (2013) Soil carbon reserves and prioritization for C sequestration in Indian soils, *In: Climate change and agriculture* (Ed. T.Bhattacharyya, D.K.Pal, Dipak Sarkar, S.P. Wani) Studium Press (India) Pvt. Ltd., New Delhi, pp 113-121.
- Chandran, P. (2012).Concepts for developing Soil Information in SOTER. In : Remote Sensing and GIS in Digital Terrain Analysis and Soil Landscape Modelling (Ed. G.P. Obi Reddy and Dipak Sarkar) NBSS Publ. 152, NBSS&LUP, Nagpur, pp.209-216.
- Chandran, P., Mandal, C., Bhattacharyya, T., Sarkar, D., Pal, D.K., Ray, S.K., Jagdish Prasad, Tiwary, P., Srivastava, R., Lokhande, M., Wadhai, K., Dongare, V. and Dijkshoorn, J.A., Batjes, N.M. and Brindaban, P.S. (2012). Soil and Terrain Information System of the Indo-Gangetic Plains, India for Resource Planning. In : Proceedings of National Seminar on Geospatial Solutions for Resource Conservation and Management (Ed. D.K. Prabhuraj, R.S. Reddy, T.R. Sreedhara Murthy, S. Vadivelu, K. Ashoka Reddy, B.P. Lakshmikantha, A. S. Rajashekar, Sanjana S. Bakre, Prathima, K.), January 18-20, 2012 organised by Karnataka State Remote Sensing Application Centre, Bangaluru, pp.25-35.
- Chaturvedi, Arun (2012). Remote Sensing and GIS in Land Use Planning (2012). Remote Sensing & GIS in Digital Terrain Analysis and Soil Landscape Modelling. NBSS&LUP Pub. No. 152. Nagpur.
- Giri, J.D. (2012). Soil survey data interpretation. In : Remote Sensing and GIS in Digital Terrain Analysis and Soil Landscape Modelling (Eds. G.P. Obi Reddy and Dipak Sarkar) NBSS Publ. 152, NBSS&LUP, Nagpur, pp.229-240.
- Jagdish Prasad., Tiwary, P., Sarkar Dipak, Sidhu, G. S., Singh, R. S., Sahoo, A. K., Mahapatra, S. K., Mandal, C., Ray,S.K., Chandran, P., Pal, D. K., and

- Bhattacharyya, T. (2012). Suitability Evaluation of Major Soils of the Indo- Gangetic Plains for Wheat, *In: Proceedings of National Seminar on Geospatial Solutions for Resource Conservation and Management* (Ed. D.K. Prabhuraj, R. S. Reddy, T. R. Sreedhara Murthy, S. Vadivelu, K. Ashoka Reddy, B.P. Lakshmikantha, A. S. Rajashekar, Sanjana S Bakre, Prathima K), January 18-20, 2012 organised by Karnataka State Remote Sensing Application Centre, Bengaluru, pp 62-70.
- Jagdish Prasad., Tiwary, P., Sarkar Dipak., Sidhu, G. S., Singh, R. S., Sahoo, A. K., Mahapatra, S. K., Mandal, C., Ray, S.K., Chandran, P., Pal, D. K., and Bhattacharyya, T. (2012). Suitability Evaluation of Major Soils of the Indo- Gangetic Plains for Wheat, *In: Proceedings of National Seminar on Geospatial Solutions for Resource Conservation and Management* (Ed. D.K. Prabhuraj, R. S. Reddy, T. R. Sreedhara Murthy, S. Vadivelu, K. Ashoka Reddy, B.P. Lakshmikantha, A. S. Rajashekar, Sanjana S Bakre, Prathima K), J. N. Tata Auditorium, Indian Institute of Science, Bengaluru , pp 62-70.
- Mandal, C., Mandal, D. K., Jagdish Prasad, Sarkar Dipak, Chandran, P., Tiwary, P., Patil, N.G., Obi Reddy, G.P., Lokhande, M.A., Wadhai, K.N., Dongare, V.T., Sidhu, G.S., Sahoo, A.K., Nair, K.M., Singh, R.S., Pal, D.K. and Ray, S.K. (2012). Revision of black soil map of India for sustainable crop production, *In: Proceedings of National Seminar on Geospatial Solutions for Resource Conservation and Management* (Ed. D.K. Prabhuraj, R. S. Reddy, T. R. Sreedhara Murthy, S. Vadivelu, K. Ashoka Reddy, B.P. Lakshmikantha, A. S. Rajashekar, Sanjana S. Bakre, Prathima, K.), J. N. Tata Auditorium, Indian Institute of Science, Bengaluru , pp 36-44.
- Nagaraju, M.S.S. (2012). GPS applicatios in resource inventory. *In : Remote Sensing and GIS in Digital Terrain Analysis and Soil Landscape Modelling* (Ed. G.P. Obi Reddy and Dipak Sarkar) NBSS Publ. 152, NBSS&LUP, Nagpur, pp.98-105.
- Nagaraju, M.S.S. (2012). Remote sensing data characteristics. *In : Remote Sensing and GIS in Digital Terrain Analysis and Soil Landscape Modelling* (Ed. G.P. Obi Reddy and Dipak Sarkar) NBSS Publ. 152, NBSS&LUP, Nagpur, pp.78-105.
- Nagaraju, M.S.S. (2012). Soil-landscape in large scale soil mapping. *In : Remote Sensing and GIS in Digital Terrain Analysis and Soil Landscape Modelling* (Ed. G.P. Obi Reddy and Dipak Sarkar) NBSS Publ. 152, NBSS&LUP, Nagpur, pp.136-139.
- Nirmal Kumar (2012). Geostatistics in digital terrain analysis. *In Remote sensing and GIS in digital terrain analysis and soil-landscape modeling* (Ed. G.P. Obi Reddy and Dipak Sarkar), NBSS Publ. No. 152, NBSS&LUP, Nagpur, pp. 147-155.
- Nirmal Kumar (2012). Overview of GIS and image processing software's. *In Remote sensing and GIS in digital terrain analysis and soil-landscape modeling* (Ed. G.P. Obi Reddy and Dipak Sarkar), NBSS Publ. No. 152, NBSS&LUP, Nagpur, pp. 113-118.
- Nirmal Kumar (2012). Remote sensing and GIS applications in LULC analysis. *In Remote sensing and GIS in digital terrain analysis and soil-landscape modeling* (Ed. G.P. Obi Reddy and Dipak Sarkar), NBSS Publ. No. 152, NBSS&LUP, Nagpur, pp. 254- 263.

- Obi Reddy, G.P. (2012). Extraction of terrain variables from DEM, In: Remote sensing and GIS in digital terrain analysis and soil-landscape modeling, NBSS&LUP Publ. No. 152 (Ed. G.P. Obi Reddy and Dipak Sarkar), pp 140-146.
- Obi Reddy, G.P. (2012). Advances of GIS and remote sensing in hydro-geomorphology, In: Remote sensing and GIS in digital terrain analysis and soil-landscape modeling, NBSS&LUP Publ. No. 152 (Ed. G.P. Obi Reddy and Dipak Sarkar), pp 184-193.
- Obi Reddy, G.P. (2012). Conceptual design of soil information system – A Geoportal, In: Remote sensing and GIS in digital terrain analysis and soil-landscape modeling, NBSS&LUP Publ. No. 152 (Ed. G.P. Obi Reddy and Dipak Sarkar), pp 217-226.
- Obi Reddy, G.P. (2012). Geomorphological processes and evolution of landforms, In: Remote sensing and GIS in digital terrain analysis and soil-landscape modeling, NBSS&LUP Publ. No. 152 (Ed. G.P. Obi Reddy and Dipak Sarkar), pp 26-35.
- Obi Reddy, G.P. (2012). GIS and remote sensing applications in watershed hydrology, In: Remote sensing and GIS in digital terrain analysis and soil-landscape modeling, NBSS&LUP Publ. No. 152 (Ed. G.P. Obi Reddy and Dipak Sarkar), pp 159-173.
- Obi Reddy, G.P. (2012). Principles and concepts of GIS, In: Remote sensing and GIS in digital terrain analysis and soil-landscape modeling (Ed. G.P. Obi Reddy and Dipak Sarkar), pp 69-77.
- Obi Reddy, G.P. (2012). Principles of digital image processing, In: Remote sensing and GIS in digital terrain analysis and soil-landscape modeling, NBSS&LUP Publ. No. 152 (Ed. G.P. Obi Reddy and Dipak Sarkar), pp 86-97.
- Obi Reddy, G.P. (2012). Digital Elevation Models- Sources and resolutions, In: Remote sensing and GIS in digital terrain analysis and soil-landscape modeling, NBSS&LUP Publ. No. 152 (Ed. G.P. Obi Reddy and Dipak Sarkar), pp 121-125.
- Obi Reddy, G.P. (2012). Principles and applications of digital terrain analysis, In: Remote sensing and GIS in digital terrain analysis and soil-landscape modeling, NBSS&LUP Publ. No. 152 (Ed. G.P. Obi Reddy and Dipak Sarkar), pp 129-135.
- Obi Reddy, G.P. and Sarkar, Dipak (2012). Geospatial technologies in characterization of land use system and analysis of their spatio-temporal dynamics in hot sub-humid ecosystem of central India. In: *Agro-informatics and Precision Agriculture 2012*, (Ed. P. Krishna Reddy et. al.), pp. 205-211.
- Obi Reddy, G.P. and Sarkar, Dipak (2013). Remote sensing and GIS for spatial decision support in sustainable land resource management, *In: Geospatial Technologies for Natural Resource Management* (Ed. S.K. Soam, P.D. Sreekanth and N.H. Rao), New India Publishing Agency, ISBN: 978-93-81450-80-2, pp. 259-277.
- Obi Reddy, G.P. and Sarkar, Dipak (Eds) (2012). Remote sensing and GIS in digital terrain analysis and soil-landscape modeling, NBSS Publ. No. 152, NBSS&LUP, Nagpur, pp. 300.
- Pal, D.K., Bhattacharyya, T., Datta, S.C., Chandran, P. and Ray, S.K. (2013) Impact of climate change in soils of semi-arid tropics (SAT), *In: Climate change and agriculture* (Ed. T. Bhattacharyya, D.K. Pal, Dipak Sarkar, S.P. Wani) Studium Press (India) Pvt. Ltd., New Delhi, pp 123-143.

- Patil N.G. (2012). A Note on “Estimating soil physical properties to build soil information system”.NBSS & LUP (ICAR) Publication No. **152**.
- Raja, P., Malpe, D.B., Bhaskar, B.P., Mrghade Deepali and Tapaswi, P.M. (2012).Hydrogeochemical characterization of groundwater for irrigation inPurna Basin, Maharashtra.*Memoir Geological SocietyofIndia*. pp. 171-188.
- Sarkar Dipak, Obi Reddy, G.P. and Naidu, L.G.K. (2012). Genesis and spatial distribution of acid soils in India towards sustainable crop production, In: Acid Soils of India- Distribution, Properties and Management for Sustainable crop Production, (Ed: S. Sudhir et al.,) pp1-14.
- SharmaRPandBeheraK.K.(2012)Fertigationtechniquesinfruitandvegetablecrops.In : Green Agriculture: Newer Technologies, 2012 © Kambaska Kumar Behera (ed.). New India Publishing Agency, New Delhi (India) ISBN: 978-93-81450-27-7, pp. 353- 389.
- Sharma R P and Singh R. S. (2012).Mineralogical framework of the Aravalli sediments, semi quantification of minerals in soil fractions of alluvial plains. LAMBERT Academic Publishing, GmbH & Co KG, Saabrucken, Germany. Printed in the USA. ISBN: 978-3-8484-9378-4. pp1-229.
- Sidhu, G. S. (2013). Natural soil resources of north western part of the Indo-Gangetic Plains and their management for rainfed crops. (Chapter 5) In: Impact of Climate Change in soils and rainfed agriculture of tropical ecosystem. Published by Studium Press, LLC, USA. pp91-100.
- Singh,D.S.(2012).Principles of geomorphology. In : Remote Sensing and GIS in Digital Terrain Analysis and Soil Landscape Modelling (Eds. G.P. Obi Reddy and Dipak Sarkar) NBSS Publ. 152, NBSS&LUP, Nagpur, pp.13-20.
- Srivastava , Rajeev (2012). Principals of remote sensing. In : Remote Sensing and GIS in Digital Terrain Analysis and Soil Landscape Modelling (Eds. G.P. Obi Reddy and Dipak Sarkar) NBSS Publ. 152, NBSS&LUP, Nagpur, pp.63-68.
- Srivastava, Rajeev (2012). Hyperspectral remote sensing applications in soils. In : Remote Sensing and GIS in Digital Terrain Analysis and Soil Landscape Modelling (Eds. G.P. Obi Reddy and Dipak Sarkar) NBSS Publ. 152, NBSS&LUP, Nagpur, pp.194- 196.
- Srivastava, Rajeev (2012). Remote sensing applications in soil resource inventory. In : Remote Sensing and GIS in Digital Terrain Analysis and Soil Landscape Modelling (Eds. G.P. Obi Reddy and Dipak Sarkar) NBSS Publ. 152, NBSS&LUP, Nagpur, pp.126-128.