

CHAPTER - 8

REFERENCES

8.0 References

- Agarwal, J.P. (1991). Feasibility of satellite remote sensing for the preparation of forest stock maps – A study taken for forest of Gora range of Rajpipla forest division in Gujarat, India, PhD Thesis, Gujarat University.
- Aldrich, R.C. (1975). Detecting disturbances in a forest environment. *Photogrammetric Engineering* 41 (1) 39-48.
- Ambasht, R.S. (1990). *A Text Book of Plant Ecology*. Students' Friends & Co. Varanasi.
- Anderson, J.R., Hardy E.E., Roach J.T., and Wirmer, R.E. (1976). A land use and land cover classification system for use with remote sensor data. *Prof. Pap.964, USGS Reston Virginia*, 28p.
- Anderson, J.R., Hardy, E.E., and Roach, J.T. (1971). A land use classification system for use with remote-sensor data. *United States Geological Survey Circular* 671.
- Anonymous, (1976). Report of the National Commission on Agriculture, 'Forestry', Part 9, Ministry of Agriculture and Irrigation, Government of India, New Delhi.
- Anonymous, (1943) Chamber's Twentieth Century Dictionary.
- Anonymous, (1961). One hundred Years Of Indian Forestry, Souvenir (1). *Forest Research Institute, Dehradun*
- Anonymous, (1980). *Gazetteer of India*, Vadodara District. Publication by Government of Gujarat.
- Anonymous, (1953). British Common wealth forest terminology.

- Anonymous, (1966). *Abridged Glossary of Technical terms*. FRI, Dehradun.
- Anuta, P.E, Bartolucci, L.A., Dean, M.E., Lozano, D.F., Malaret, E., McGillem, C.D., Valdes, J.A., and Valenzuela, C.R. (1984). Landsat-4; MSS and Thematic mapper data quality and information content analysis. *I.E.E.E. Transactions on Geoscience and Remote Sensing*, GE-22, 222-236.
- Attig, J.W. (1985). Pleistocene geology of Vilas County, Wisconsin. Inf. Circ. No. 50. *Wisconsin Geol. & Natur. Hist. Sur.*, Madison. 76p.
- Beaubien, J. (1979). Forest type mapping from Landsat digital data. *Photogrammetric Engineering and Remote Sensing* 45: 1135-1144.
- Beaubien, J., and Jobin, L., (1974). Forest insect damage and cover types from high altitude colour – IR photographs and ERTS – 1. *Proc. Symp. Remote sensing, PH Interpretation*, Alberta, Canada, 1: 449-454.
- Berry, J.K., and Berry, J.K. (1988). Assessing spatial impacts of land use plans. *Journal of Environmental Management*, 27 :1-9.
- Bist, M.S. (2000). Monitoring of vegetation cover and land use in Nanda Devi biosphere reserve. *Indian Forester*, 126 (6) : 664-673.
- Black, C.A. (1968). *Soil Plant Relationships*, John Wiley & Sons, Inc., New York.London.Sydney
- Brady, N.C. (1995). *The nature and properties of soils*. Prentice-Hall of India Pvt. Ltd. New Delhi.
- Brera, A.M. and Shahrokhi, F. (1978). Application of Landsat data to monitor desert spreading in the Sahara region, Proceedings of the 12th *International Symposium on Remote Sensing of Environment, ERIM*, Ann Arbor, MI, 1329-1338.
- Brewbaker, J.L. (1994). Short rotation Forestry in tropical area in Bioenergy 84. *Proc. Conf. Goteborg*, Sweden.

- Buckman, H.O. and Brady, N.C. (1967). *The nature and properties of soils*. Eurasia Publishing House (Pvt.) Ltd. New Delhi.
- Burrough, P.A. (1986). *Principles of Geographical Information System for Land Resources Assessement*. Oxford University Press, Oxford, pp 194.
- Champion, H.G. & Seth, S.K. (1968). *A revised survey of forest types of India*. Manager of Publications, Delhi.
- Chandra, R. (1975). An appraisal of the fir regeneration problem. *Indian Forester*, 101 (12) : 936-942.
- Chaturvedi, A.N. (1992) History of Forests in India. *Indian Forester* 18 (10) 729-735.
- Cohen, W.B., Fiorella, M. and Anderson, K. (1998). An efficient and accurate method for mapping forest clearcuts in the Pacific northwest using Landsat imagery. *Photogrammetric Engineering and Remote Sensing*, 64, 293-300.
- Colwel, R.N. (1960). Manual of photographic interpretation, Washington, D.C. *American Society of Photogrammetry*.
- Coppin, P.R. and Bauer, M.E. (1994). Processing of multitemporal Landsat TM Imagery to optimise extraction of forest cover change features. *IEEE Transactions on Geoscience and Remote Sensing*. 32 153-166.
- Cornell, J.H. & Orias, E. (1964). The ecological regulation of species diversity. *Amer. Natur.* 48 : 399-414.
- Costanza, R., d'Arge, R., de Groot, R., Farber, S., Grasso M., Hannon, B., Limburg, K, Naeem, S., O'Neill r. V., Paruelo J., Raskin R. G., Sutton, P., and M.van den Belt. (1997). The value of the world's ecosystem services and natural capital. *Nature* 387 (6630): 215-230.

- Cowen, D.J. (1988). GIS versus CAD versus DBMS: what are the differences? *Photogrammetric Engineering and Remote Sensing*, 54: 1551-4.
- Curran, P.J. & Nd Franquin, P. (1980). Multispectral remote sensing of vegetation amount. *Prog. Phy. Geogr.*, 4, 315.
- Dakshnamurti, C., Krishnamurthy, B., Summaranwar, A.S., Shanta, P., and Pisharoty, P.R., (1971). *Proc. Vth Int. Symp. Remote Sensing, AnnArbor*, 25.
- Das, K.K., Ravan, Shirish A., Negi, S.K., Jain, Abhineet & Roy, P.S.(1990). Forest cover monitoring using remote sensing and GIS – A case study in Dhaukand range of Rajaji National Park, UttarPradesh. *Journal of Indian Society of Remote Sensing*. 20(1) 185-196.
- Datta, N.P., Khera, M.S. and Saini, T.R. (1962). A rapid calorimetric procedure for the determination of the organic carbon in soils. *J. Indian Soc. Soil Sci.* 10 : 67-74.
- De Gloria, S.D., Daus, S.J., Tosta, N. and Bonner, K. (1975). Utilization of high altitude photography and Landsat 1 data for change detection and sensitive area analysis, Proceedings of the 10th *International Symposium on Remote Sensing of Environment, ERIM, Ann Arbor, MI*, 359-368.
- Dhinwa, P.S., Pathan, S.K., Sastry, S.V., Rao, M., Majumder, K.L., Chotani, M.L., Singh, J.P. and Sinha, R.L.P. (1992). Land use change analysis of Bharatpur District using GIS. *Journal of Indian Society Remote Sensing*. 20 (4) : 237-250.
- Dwivedi, K., 1994. *Our shrinking forest cover*. The Hindustan Times, May 22, 12.

- Edwards, P.J. and Heath (1963). The role of soil animals in breakdown of leaf material. *Soil Organisms* (Eds. Doekson and van der Drift) North, New York.
- Ellefsen, R. and Peruzzi, D. (1976). Land use change detection from Landsat and Skylab satellites, *Proceedings of 13th Congress International Society for Photogrammetry*, Commission VII, Helsinki, 6pp.
- Evans, J. (1980). *Plantation forestry in the tropics*. Oxford Science Publications, Oxford, U.K. pp. 471.
- FAO (1960). World Forest Inventory of FAO.
- Fischer, A.G. (1960). Latitudinal variation in organic diversity. *Evol.* 14 : 64-91.
- Fosberg, R.F. (1967). *A Classification of Vegetation for general purposes*. IBP Handbook (4) 73-102.
- FSI, (1999). State of Forest Report, *Forest Survey of India*, Dehradun.
- Gaur, R.D. (1982). Dynamics of vegetation of Garhwal Himalayas pp.12-15. *Vegetational Wealth of the Himalayas* (ed. G.S. Paliwal) Delhi.
- Gausman, H.W., Allen, W.A., Cardenas, R. and Richardson, A.J. (1972). Effects of leaf age for four growth stages of cotton and corn plants on leaf reflectance, structure, thickness, water and chlorophyll concentrations and selection of wavelength for crop discrimination. *In Remote Sensing of Earth Resources* Vol.1, edited by F. Shahrokhi, University of Tennessee, Tullahoma, Tennessee Space Institute. pp. 25-51.
- George, M. & Varghese, G. (1990). Nutrient cycling in Eucalyptus globules plantation-I. Organic production, nutrient accumulation in standing crop and nutrient removal through harvest. *Indian Forester*. 116 (1) : 42-48.

- Ghosh, A.B., Bajaj, J.C., Hasan, R. and Singh, D. (1983). Soil and water testing methods – A laboratory Manual. *Division of Soil Science and Agricultural Chemistry*, IARI, New Delhi.
- Grewal, J.S. (1999). Maharashtra working plan incorporates GIS. *GIS development*. Sep-Oct, 1999
(www.gisdevelopment.net/magazine/gisdev/1999/sep-oct/mwpgis.shtml).
- Hatfield, J.L. (1983). Remote sensing estimates of potential and actual crop yield. *Remote Sensing Environ*, 13, 301.
- Hathout, S., (1988). Land use change analysis and prediction of the suburban corridor of Winnipeg, Manitoba. *Journal of Environmental Management*, 27: 325-335.
- Heath, G.R. (1974). ERTS Data tested for forestry application. *Photogrammetric Engineering* 40(9) 1087-1092.
- Heller, R.C., and Wear, J.F., (1952). Sampling forest insect epidemics with color film. Proc. *On Remote Sensing of Environment*, Michigan, 1157-1167.
- Helmissari, H.S. (1992). Nutrient retranslocation in three *Pinus sylvestris* stands. *For. Ecol. Manage.*, 51 (4) : 345-367.
- Hendrix, X.G. & Price, J.E. (1988). Application of GIS for assesement of site index and forest management constraints. Proc. GIS, Atlanta, Georgia, USA, 1: 263-272.
- Hoffer, R.M. (1978). Biological and physical consideration in applying computer-aided analysis techniques to remote sensor data. In *Remote Sensing - The Quantitative Approach*, edited by P.H. Swain and S.M.Davis, McGraw-Hill. Inc. USA., 396p.
- Holben, B.N. & Frasher, R.S. (1984). Red and near infrared response to off-nadir viewing. *International Journal of Remote Sensing*, 5, 145.

- Holland, D.A. (1969). Component Analysis – an approach to the interpretation of soil data. *J. Sci. Food Agric.* 20 : 26-32.
- Horler, D.N.H., and Ahern, F.J. (1986). Forestry information content of Thematic Mapper data. *International Journal of Remote Sensing*, 7: 405-428.
- Host, G.E. et al. (1988). Variation in overstory biomass among glacial landforms and ecological land units in northwestern lower Michigan. *Can. J. For. Res.* 18 :659-668.
- Howard, P.J. and Howard, D.M. (1974). Microbial decomposition of tree and shrub leaf litter. I Weight loss and chemical composition of decomposing litter, *Oikos*, 25 : 341-352.
- Indian Forest Records (new series) Vol 2(1), 1936.
- Jackson, M.L. (1967). *Soil Chemical Analysis*. Prentice-Hall, London.
- Jackson, R.D., Slater, P.N. and Pinter, P.J. (1983). Discrimination of growth and water stress in wheat by various vegetation indices through clear and turbid atmospheres. *Remote Sensing Environs.* 15, 187.
- Jackson, M.L. (1973). *Soil Chemical Analysis*. Prentice-Hall of India Pvt. Ltd., New Delhi.
- Jadhav, R.N. (1984). Forest Mapping Methodology using Remote sensing data- A case study in Dangs forest: Gujarat, India using Salute-7 Data, PhD. Thesis, Gujarat University.
- Jadhav, R.N., Kimothi, M.M., Sarat Babu, G.V., Dwivedi, Kavita, Thesia, J.K. and Tandon, M.N. (1988). Updating forest stock map using IRS-1A LISS-II data : A case study in Jatga range, N. Bilaspur, Madhya Pradesh. Presented at the IRS-1A Seminar, Hyderabad, December, 21-22.
- Jadhav, R.N., Sastry, K.L.N., Kandya, A.K., Thakkar, P.S. and Kimothi, M.M. (1999). Forest fire prone area mapping - A case study, Gir PA.

- Technical report, SAC/RSAM/RESA/TR-06/July1999, Forestry and Environment Division (FED), FLPG/RESA. Space Application Center (ISRO), Ahmedabad.
- Jadhav, R.N., Srivastav, V.K., Kandya, A.K., Sarat Babu, G.V., Kimothi, M.M., Dwivedi, K. Shetty, K.R.V., and Murthy, K., (1986). Forest type, density and Teak plantation mapping at 1:50000 scale through visual analysis of Landsat MSS data. Scientific note IRS-UP/SAC/FMDD/SN/05/86. SAC, Ahmedabad, India.
- Jadhav, R.N., Srivastava, V.K., Kandhya, A.K., Sarat Babu, K.V., Kimothi, M.M., Dwivedi, K.D., Sheety, K.V.R. and Murty (1997). Large scale forest type mapping using satellite data. Proc. XXVII *Congress of International Astronautical Federation Brighton*, England, Oct. 10-17.
- Jadhav, R.N., Thakkar, P.S., Kimothi, M.M., Vanikar, V.V. & Agarwal, J.P., (1992). A GIS based approach for forest working plan revision – A case study in Santrampur taluka Panchmahals district, Gujarat. Technical report, SAC/RSA/NRISDLP/TR/11/92, Ahmedabad, India.
- Jensen, J.R. (1996). *Introductory Digital Image Processing*. Prentice-Hall, Englewood Cliffs, New Jersey.
- Jere, A. & Sridhar, K.T. (1993). Application case studies using ISRO GIS. Training notes on GIS for resources management and development planning., SAC, Ahmedabad, India, S 2 (1)
- Johnston, C.A., Detenbeck, N.A., Bondee, J.P. and Niemi, G.J. (1988). Geographic information systems for cumulative impact assessment. *Photogrammetric Engineering and Remote Sensing*, 54: 1609-1615.
- Justice, C.O., Townshend, J.R.D., Holbe, B.N. and Tucker, C.J. (1985). Analysis of the phenology of global vegetation using meteorological satellite data. *International Journal of Remote Sensing*. 6(8) : 1271-1381.

- Kachhwaha, T.S. (1990). Supervised classification approach for assessment of forest resources in part of U.P. plains, India using Landsat-3 data. *Journal of Indian Society of Remote Sensing* 18 (1 & 2) : 9-14.
- Kachhwaha, T.S., (1990). Supervised classification approach for assessment of forest resources in part of Uttar Pradesh plains, India using Landsat – 3 data. *Journal of Indian Society of Remote Sensing*, 18: 9-14.
- Katiyar, S.K. and Rampal, K.K. (1991). Bathymetric mapping over coastal Andhra Pradesh using Landsat MSS data. *Journal of the Indian Society of Remote Sensing*, 19 (3) :149-156.
- Kayitakire, Francois, Fracy, Christine and Defourny, Pierre (2002). IKONOS-2 imagery potential for forest stands mapping. *Presented at ForestSAT Symposium*, Heriot Watt University, Edinburgh, Aug 5th-9th 2002.
- Krishnaswamy, V.S. (1953). Protection of forests of India from Animals. *Indian Forester*, 79(8) : 415-419.
- Liddle, M. (1975). A selective review of the ecological effects of human trampling on natural ecosystems. *Biological Conservation*. 7 : 17-36.
- Lillesand, T.M. & Kiefer, R.W. (1994). *Remote Sensing and image interpretation*, John Wiley & Sons (Asia) Pte Ltd, Singapore.
- Lindhult, M.S., Fabos, J., Brown, P. and Price, N. (1988). Using geographic information systems to assess conflicts between agricultural and development. *Landscape and Urban Planning*, 16: 333-343.
- Lindsay, W.L. and Norvell, W.A. (1978). Development of a DTPA test for Zn, Fe, Mn and Cu. *Soil Sci. Soc. Am. J.* 42 : 421-28
- Madhavan Unni, N.V..(1977). Satellite Remote sensing survey of Natural resources of Nagaland. NRSA report, Hyderabad.

- Martin, C. (1985). Using a GIS for forest land mapping & management. *Photogrammetric Engineering & Remote Sensing*, 51 : 1753-1759.
- Meentmeyer, V. (1978). Microclimate and lignin control of hardwood leaf decomposition dynamics. *Oecologia*, 58 : 281-285.
- Megalan, Alter, W.F. and Salterland, R.D. (1962). Winter infiltration studies on abandoned and reforested field in Central New York. *Eastern Snow Conf. Proc.* 7 : 121-132.
- Menhinick, E.F. (1964). A Comparison of some species diversity indices applied to samples of field insects : *Ecology*, 45 : 858-861.
- Millan, C.E., Turk, L.M. and Foth, H.D. (1995). *Fundamentals of soil science*. John Wiley and Sons, Inc. New York.
- Monk, C.D. (1967). The species diversity in eastern deciduous forest with particular reference to north-central Florida. *Amer. Natur.* 101 : 173-187.
- Murthy, K.S.R. and Rao, V.V. (1997). Temporal studies of land use/ land cover in Varaha river basin, Andhra Pradesh, India. *Journal of Indian Society Remote Sensing*. 25 (3) : 145-154.
- Nandi, Aparajita and Barari, S. (1997). Soil management, A new hope for leteritic forests of West Bengal. *Indian Forester* 123(4): 280-284.
- Nazaror, G.V. (1969). Water permeability of frozen soils in Central Cheraozem province. Zin Soviet Hydrology. Selected paper No. 1. *Amer. Geophys. Union*. 79-84.
- NBSS, (1994). *Soils of Gujarat*. National Bureau of Soil Survey and Land use Planning (ICAR).
- Norris, J.M. (1970). Multivariate methods in the study of soils. *Soils Fert.* 33 : 313-318.

- NRSA (1982). Nationwide Mapping of forest and non-forest areas using Landsat false colour composites for the periods 1972-75 and 1980-82. Project Report, *National Remote Sensing Agency*, Hyderabad.
- Odum, E.P. (1983). *Basic Ecology*. Saunders College Publishing, Philadelphia and London.
- Olsen, S.R., Cole, C.V., Watanabe, F.S. and Dean, L.A. (1954). Estimation of available phosphorus in soils by extraction with sodium bicarbonate. *Circ. U.S. Dep. Agric.* 939.
- Osman, K.T. & Sikdar, S. (2000). Foliar nutrients of six forest tree species grown in Brown hill soils of Bangladesh. *Indian Forester*, 126 (12) : 1279-1288.
- Pande, P.K. and Sharma, S.C. (1989). Seasonal changes in organic matter constituents in some plantation soils of Doon valley. *Int. J. Ecol. Environ. Sci.* 15 : 37-45.
- Pande, P.K., Negi, J.D.S. and Sharma, S.C. (2000). Species diversity, turn over and resource apportionment among various plant species in a western Himalayan Forest. *Indian Forester*, 126 (7) : 727-741.
- Parker, H.D. (1988). The unique qualities of a geographic information system: a commentary. *Photogrammetric Engineering and Remote Sensing*, 54: 1547-9.
- Pathak, P.K. (1997). Geographical Information System (GIS): Principles & Applications in forestry, *Indian Forester*, 801-805.
- Pielous, E.C. (1966). Species diversity and pattern diversity in the study of ecological succession: *J. Theoret Biol.* 10 : 370-383.
- Piper, C.S. (1950). *Soil & Plant Analysis*. Interscience Publishers. Inc., NewYork.
- Porwal, M.C. and Pant, D.N. (1989). Forest cover type and landuse mapping using Landsat Thematic Mapper false colour composite – A

- case study for Chakrata in Western Himalayas Uttar Pradesh. *Journal of Indian Society of Remote Sensing*, 17 (10).
- Porwal, M.C. and Roy, P.S. (1991). Attempted understory characterization using aerial photography in Kanha national park, Madhya Pradesh, India. *Environmental Conservation*, 18 (1) : 45-50
- Porwal, M.C. and Roy, P.S., (1992). Vegetation Type discrimination on Landsat TM data in heterogeneous forested landscape of Western Ghats – accuracy evaluation from large scale Aerial photographs. *Journal of Indian Society of Remote Sensing*, 20 (1).
- Porwal, M.C., Pant, D.N., (1989). Forest Cover Type and Landuse Mapping using Landsat Thematic Mapper False Colour Composite A Case Study for Chakrata in Western Himalayas U.P. *Journal of Indian Society of Remote Sensing*, 17 (1) 33-40.
- Porwal, M.C., Roy, P.S. (1992). Vegetation Type Discrimination on Landsat TM Data in Heterogeneous Forested Landscape of Western Ghats – Accuracy Evaluation from Large Scale Aerial Photo Maps. *Journal of Indian Society of Remote Sensing*, 20 (1) 21-33.
- Postel, S., & Heise, L., 1988. Reforesting the earth. In state of world 1988- Report by the world resource institute and the international institute for environment and development in collaboration with United National Environment programme. Newyork: *Basic Books, Inc.* 83-210.
- Rangnath, B.K., Roy, P.S., Dutt, C.B.S. & Diwakar, P.G. (2000). Use of modern technologies and information systems for sustainable forest management status report. *ISRO/DOS*, Bangalore.
- Ravindranath, S. & Premnath, S. (1997) *Biomass Studies Field Methods for Monitoring Biomass*. Oxford & IBH Publishing Co.Pvt.Ltd. NewDelhi. pp. 81

- Reisinger, T.W & Davis, C.J. (1987). Integrating geographic information and decision support system. *A forest Industry Application, Proc. GIS'87*. San Francisco, Oct. 26-30, 578-584.
- Rhode, W.G., 1972. Multispectral sensing of forest tree species *Photogrammetric Engineering*, 38 (12) 1209-1215.
- Rowell, D.L. (1994) *Soil Science Methods & Applications*. Longman, Harlow. pp 10
- Roy, P.S. & Gregoire, J.M. (1999). Vegetation fire research in Tropical region, Proceedings of UN-ESCAP/ISRO Science Symposium on Space Technology for improving quality of life in developing countries : A perspective for the next millennium, November 15-17, 1999, New Delhi, India.
- Roy, P.S. (1993). Remote sensing for forest ecosystem analysis and management: In environmental studies in India (ed.) M.Balakrishnan, New Delhi: Oxford and IBH. 335-363.
- Roy, P.S. and Das, K.K., (1991). Forest cover and Landuse mapping in Karbi analog and North Cachher Hills District of Assam using Landsat MSS data. *J. Ind. Remote sensing*, 19: 95-112.
- Roy, P.S., Kaul, R.N., Sharma, Roy, M.R. & Garbyal, S.S., (1995). Forest type stratification and delineation and shifting cultivation areas in the eastern part of Andhra Pradesh using Landsat MSS data. *Int. Journal of Remote Sensing* 6, 411.
- Roy, P.S., Singh, I.J., Porwal, M.C., Singh, Sarman, Pant, D.N., Das, K.K. and Shrish, A.R. (1992). Relevance of satellite remote sensing for forest resource management. Proceedings of the SilverJubilee Seminar, IIRS, Dehradun 79-88.

- Rubec, C.D. and Thie, J. (1978). Land use monitoring with Landsat digital data in southwestern Manitoba, *Proceedings of the 5th Canadian Symposium on Remote Sensing*, Victoria, British Columbia. 136-149.
- Saxena, A.K. & Singh, J.S. (1982). A phytosociological analysis of woody species in forest communities of a part of Kumaun Himalayas. *Vegetation*. 50 : 3-22.
- Seth, S.K. (1960). An analysis of soil moisture regime in Sal (*Shorea robusta*) forests of Dehra dun, with reference to natural regeneration. *Indian Forester*, 86 (6) :323-335.
- Shannon, C.E. & Wiener, W. (1949) *The Mathematical Theory of Communication*, Urbana, University of Illinois Press. pp 117.
- Simpson, E.H. (1949). Measurement of Diversity. *Nature* 163: 688.
- Simpson, G.S. (1964). Species diversity of North American recent mammals. *Syst. Zool.* 13 :57-73.
- Singh, A. (1986) Change detection in the tropical forests environment of Northeastern India using Landsat data. *Remote Sensing and Tropical Land Management*, Ed. Eden M.J. and Parry, J.T. (eds), John Wiley and Sons, 237-254.
- Singh, A. (1986). The national forest cover monitoring using satellite imagery. *Indian Forester* 112 (6) : 477-484.
- Singh, A. (1987). The potential role of satellite remote sensing for tropical forest surveys. *Indian Forester*, 113 (4) : 258-271.
- Singh, A. (1988). A forest cover classification system using remotely sensed data. *Indian Forester* 114 (3) : 128-135.
- Singh, I. (1988). Evaluation of Landsat TM data for forest cover type and landuse classification in subtropical forests of Kumaon Himalaya (U.P.). *Journal of Indian Society of Remote Sensing* 16(4) : 43-52.

- Singh, I. (1989). Monitoring of Forest Cover Type and Landuse Classes through Remote Sensing Techniques (A case study in Ranikhet Tahsil, U.P.). *Journal of Indian Society of Remote Sensing*, 17 (2) 15-21.
- Singh, R. (1976). Structure and net community production of the herbaceous vegetation in the sand dune regions around Pilani, Rajasthan. Ph.D. Thesis B.I.T.S. Pilani. 460p.
- Singh, R. and Joshi, M.C. (1979). Floristic composition and life forms of sand dunes herbaceous vegetation near Pilani, Rajasthan. *Indian J. Ecol.* 6 : 9-19.
- Skidmore, A.K., Witske Bijker, Karin Schmidt and Lalet Kumar, (1997). Use of remote sensing and GIS for sustainable land management, *ITC Journal*, 3/4, 302-315.
- Skole & Tuckur (1993). Tropical deforestation and habitat fragmentation in the Amazon: Satellite data from 1978 and 1988. *Science*, 260, 1905-1910.
- Smith, T.R., Menon, S., Starr, J.L., and Estes, J.E. (1987). Requirements and principles for the implementation and construction of large-scale geographic information systems. *International Journal of Geographical Information Systems*, 1: 13-31.
- Soni, P., Vasistha, H.B. and Kumar, O. (1992). Global Environment Security: Role of Tropical Forest Therein. *Indian Forester* 18 (5) 367-370.
- Soranson, T. (1948). A method of establishing groups of equal amplitude in plant society based on similarity of species content. *K. Danske Vidensk. Selsk.*, 5: 1-34.
- Sugur, G.V, (1989). Litter production and nutrient cycling of different species under plantations conditions. *Myforest*, 25 (1) : 43-49.

- Swirnov, A.V. (1972). Evaluation of the behaviour of plants of the forest in South central Siberia after the action of anthropogenic destructive factors on the forests. *Ekologiya*. 2: 79-87.
- Tomar, M.S. & Maslekar, A.R., (1974). Landuse and forest type classification proposed for aerial photo interpretation, *Indian forester*, 99 (5).
- Tomar, M.S. (1976). Use of aerial photographs in working plans. *Indian For.* 102 (2) : 98-108.
- Totey, N.G., Singh, A.K., Bhowmik, A.K. and Khatri, P.K. (1986). Effect of forest covers on physico-chemical properties of soils developed on sand stone. *Indian Forester* 112(4) 314-327.
- Townshed, J.R.G., (1992). Land cover. *International Journal of Remote Sensing*, 13, 1319-1328.
- Tucker, C.J., Holben, B.N., Elgin, J.H., Jr., and McMurtrey., J.E. (1981). Remote sensing of total dry matter accumulation in winter wheat. *Remote Sensing Environ.*, 11, 171.
- van Cleave, K. (1971). Energy and weight loss function for decomposition foliage in birch and aspen forest in interior Alaska, *Ecology*, 52 : 720-723.
- van der Drift, J. (1963). The disappearance of litter in mull and more in connection with weather conditions and the activity of macrofauna. *Soil Organisms* (Eds. Doeksen and van der Drift) North Holland Publ., Amsterdam. 125-133.
- Varjo, (1997). Change detection and controlling forest information using multitemporal Landsat TM imagery. *Acta Forestalia Fennica*. 001-5636,258,64

- Walker, D.A. (1999). An integrated vegetation mapping approach for northern Alaska (1:4M scale). *Int. J. Remote Sensing*, 20 (15&16) : 2895-2920.
- Walker, R.H. and Brown, P.E. (1936). The phosphorus, nitrogen and carbon content of Iowa soils. In P.E.Brown (1936) soils of Iowa. *Iowa Agr. Exp. Sta. Spec. Report* 3.
- WCMC/IUCN/WWF. (World Conservation Monitoring Centre/ IUCN- The World Conservation Union/ World Wide Fund for Nature). (1998). World List of Threatened Trees, 1998. Gland, Switzerland: IUCN.
- Wheeler, D.J. and Ridd, M.K. (1985). A geographic information system for resource managers based on multi-level remote sensing data. Technical papers, 51st Annual Meeting of American Society of Photogrammetry, Falls Church, Virginia, pp. 528-537.
- Whitley, L.D., Xiand, W. & Jeffrey, J.Y., (1993). Use of a GIS "Melting Point" to assess land suitability. *J. GIS World*, 48-51.
- Wild, A. (1996). *Soils and the Environment an Introduction*. Cambridge University Press G. Britain
- Williams, T.H.L. (1985). Implementing LESA on a geographic information system-a case study. *Photogrammetric Engineering and Remote Sensing*, 51: 1923-1932.
- Wilson, J.R., Blackman, C. and Spann, G. W. (1976). Land use change detection form computer processed Landsat data, *Proceedings of the 14th Annual Conference on Urban and Regional Information Systems*, Atlanta, GA, 426-469.
- Xing Hong, L. & Hua, Z., (1992). The evaluation of land use in a selected area in south Gullin by using GIS. Proc. *On remote sensing Applications & GIS*. Tata Mc Graw Hill publishers, Hyderabad, India. 349-353.

Yadav, M.K. (1999). Working plans - The mainstay of GIS in Forestry. GIS Development.Sep,Oct,1999.(www.gisdevelopment.net/magazine/gisdev/1999/sep-oct/mgisf.shtml).