

REFERENCES

- Asakura, K., G. Shintaro, S. Murai and Y. Honda 1991. Estimation of Supportable Population by Crop Production: How many people can live on the earth? p.15-19. In Shinji Murai (ed.). *Applications of Remote Sensing in Asia and Oceania: Environmental change monitoring*. Asian Association of Remote Sensing. 372p.
- Beets, W. C. 1990. *Raising and Sustaining Productivity of Smallholder Farming Systems in the Tropics: A hand book of sustainable agricultural development*. Alkmaar, Holland. 738 p.
- Bonham-Carter G. F. 1994. *Geographic Information Systems for Geoscientists: Modeling with GIS*. Computer Methods in the Geosciences Volume 13. Pergamon (Elsevier Science Ltd). 398 p.
- Brush, S. B. 1975. The concept of carrying capacity for systems of shifting cultivation. *American Anthropologist*. 77: 799-811.
- Burrough, P. A. 1986. *Principles of Geographical Information Systems for Land Resources Assessment*. Clarendon Press, Oxford. 194 p.
- Burutpat, K. 1990. *Highland People*. Phrae Pitaya Publishing, Bangkok. 168p.
- Cartensen, L. W. and J.B. Campbell. 1991. Desktop scanning for cartographic digitization and spatial analysis. *Photogrammetric Engineering and Remote Sensing*. 57(11): 1437-1446.
- Corvallis Microtechnology, Inc. 1991. *CMT MC-V Operator's Manual*. Corvallis Microtechnology, Inc.
- Cruz, M. C., 1986. Population pressure and migration in Philippines upland communities. p.35-52. In S. Fujisaka, P. Sahise, and R. Del Castillo (Eds.). *Man, Agriculture, and the Tropical Forest: Change and development in the Philippines uplands*. Winrock International Institute for Agriculture Development, Bangkok, Thailand. 87p.
- Dirmyati, M., S. Uchida and R. Nagasawa 1991. Land evaluation analysis for agricultural purposes using Remote Sensing and GIS: Quantitative model for land suitability. p.51-57. In Shinji Murai (ed.). *Applications of Remote Sensing in Asia and Oceania: Environmental change monitoring*. Asian Association of Remote Sensing. 372p.

- Dwivedi, R. S. and T. Ravai Sankar 1991. Monitoring shifting cultivation using space-borne multispectral and multitemporal data. *International Journal Remote Sensing* 12(3), 427-433.
- Eastman, J. R. 1997. *Idrisi for Windows User's Guide Version 2.0*. Clark Labs for Cartographic technology and Geographic Analysis. January 1997.
- Ekasingh M., B. Shinawatra, T. Onpraphai and P. Promburom 1995. Role of spatial information in assessing resources of highland communities. p.402-435. *In Montane Mainland Southeast Asian in Transition*. Chiang Mai University. November 12-16, 1995.
- Ermapper. 1996. Aerial photograph mosaics. HTML document found at <http://ermapper.com/applic/airphoto/intro.htm>.
- ESRI. 1995. *Understanding GIS: The ARC/INFO method*. Self-Study Workbook Version 7 for UNIX and Open VMSI. John Wiley & Sons Inc., New York, USA.
- Fox, J., J. Krummel, S. Yarnasarn, M. Ekasingh and N. Podger 1995. Land use and landscape dynamics in Northern Thailand: Assessing change in three upland watersheds. *Ambio*. 24(6) 1995: 328-334.
- Fukui, H. 1991. The rice/population balance in a northeast Thai village. *Tonan Ajia Kenkyu (Southeast Asian Studies)*. 28(4): 68-84.
- Gangodawila, C. D. 1987. The role of remote sensing in agricultural land and water use development programs of Sri Lanka: A review. p. TS.VI.A.5 - TS.VI.A5-10. *In* PSU, NRCT, ITC (eds.). *International Symposium on Remote Sensing 1987: Remote sensing and information system for planing development*. PSU, NRCT, ITC. Songkhla, Had-Yai, Thailand.
- Gypmantasiri, P. and S. Amaruekachoke 1997. Integrated Approach to Develop Alternative to Slash and Burn Agriculture for Karen Community in the Highland. p. 32-47. *In Proceedings of The 11th Thailand National Farming Systems Seminar*. 434 p.
- Gypmantasiri, P. Grain Yield and Isozyme Characteristics of Local Karen Rice Varieties, in press.
- Higgins, G. M., G. Fisher and M. M. Shah 1982. *Potential Population Supporting Capacities of Lands in the Developing World*. Technical Report of Project: Land Resources for Populations of The Future, FPA/INT/513. FAO, UN Fund for Population Activities and International Institute for Applied Systems Analysis. Rome. 124 p.

- Hinton, P. 1970. Swidden cultivation among the Pwo Karen of northern Thailand: Present practice and future prospects. p.1-24. *In International Seminar on Shifting Cultivation and Economic in Northern Thailand*. Chiang Mai University.
- Jintrawet, A., S. Booranaviriyakul, S. Jongkaewwatana, K. Aoungsawad, S. Opastrakul and A. Janmuang 1994. Predicting long term impacts of land use and management on productivity and environment. p.123-141. *In Sustaining Land Resource Management for Agriculture and Forestry in The Tropical Small Watershed Environment*. A Progress Report: July 1993 - June 1994. Faculty of Agriculture, Chiangmai University, Thailand.
- Kunstadter, P., E. C. Chapman and S. Sabhasri. 1978. *Economic Development and Marginal Agriculture in Northern Thailand*. An East-West Center Book, East-West Population Institute. Hawaii, USA.
- Kunstadter, P. 1990. Impacts of economic development and population change on Thailand's forests. *Resource Management Optimization*. 7, 171-190.
- Kushawa, S. P. S. 1991. Remote Sensing of shifting cultivation in North Eastern India p.60-77. *In Shinji Murai (ed.). Applications of Remote Sensing in Asia and Oceania: environmental change monitoring*. Asian Association of Remote Sensing. 372p.
- Leberl, G. W. and D. Olson. 1982. Raster scanning for operational digitizing of graphical data. *Photogrammetric Engineering and Remote Sensing*. 48(4): 615-627.
- Lillesand, T. M. and R. W. Kiefer 1994. *Remote Sensing and Image Interpretation*. 3rd ed., John Wiley & Sons, New York. 750 p.
- Moreira, M. A., S. C. Chen and G. T. Batista. 1986. Wheat-area estimation using digital Landsat MSS data and aerial photographs. *International Journal of Remote Sensing*. 7(9): 1109-1120.
- Mwalyosi, R.B.B. 1991. Population growth, carrying capacity and sustainable development in south-west Masailand. *Journal of Environmental Management*. 33(2): 75-187.
- Paine, D. P. 1981. *Aerial Photography and Image Interpretation of Resource Management*. John Wiley & Sons. New York. 571 p.
- Pankao, P. 1996. *Isozymes and Yield Differentiation of Rice Varieties Grown by Karen Community*. M.S. Thesis, Chiang Mai University. 110p. (in Thai)

- Salamanca Software Pty Ltd. 1994.: *WS-PhotoGIS Version 2, User's Guide*. Salamanca Software Pty Ltd. PO BOX 844, Sandy Bay, Tasmania 7006, Australia.
- Shinawatra, B., S. Woodtjaroenkarn and M. Jerdlarb 1994. The Socio-Economic Study of the Tropical Small Watershed Environment. p.82-122. *In Sustaining Land Resource Management for Agriculture and Forestry in The Tropical Small Watershed Environment*. A Progress Report: July 1993 - June 1994. Faculty of Agriculture, Chiangmai University, Thailand.
- Siamwalar, A. and V. Na-ranong 1990. *Rice in Thailand*. Thailand Development and Research Institute (TDRI). 436 p. (in Thai)
- The Social Research Institute 1988. *An Agro-Socio-Economic Evaluation of Opium Replacement Crops for the Highlands: Volume 1 Main Report*. The Social Research Institute, Chiang Mai University. 190p.
- Somrith, B. and B. Prommani. 1985. Upland rice in highland areas of Thailand. p. 176-185. *In* IRRI (ed.). *Progress in Upland Rice Research, Proceedings of The 1983 Jakarta Conference*. Jakarta, Indonesia.
- Street, J. M. 1969. An evaluation of the concept of carrying capacity. *The Professional Geography*. 11(2): 104-111.
- TeSelle, G. 1994. A national digital orthophoto program. GIS/LIS GIS Literature Database, University of Maine/NCGIA. HTML document found at <http://www.wsgi.usrsus.maine.edu/gisweb/spatdb/gis-lis/gi94093.htm>: 175-751.
- Tennakoon, S. B., V. V. N. Murty and A. Eiumnoh 1992. Estimation of cropped area and grain yield of rice using remote sensing data. *International Journal Remote Sensing*, 13(3): 427-439.
- Thorp, J. 1993. Aerial photogrammetry: State of the industry in US. *Photogrammetric Engineering and Remote Sensing*. 59(11): 1599-1604.
- Trimble Navigation 1991. *PFINDER Software User's Guide*. Trimble Navigation, Ltd. 103p.
- Trimble Navigation. 1992. *GPS Pathfinder Operating Manual*, GPS Pathfinder Basic Receivers. Trimble Navigation, Ltd. 103p.
- Vibulsresth, S., D. Downreang, T. Rangsiakanphum, U. Pornprasestchai and S. Murai 1991. Rapid change from rice paddy to other land uses. p.242-247. *In* Shinji

Western, S. 1989. Carrying capacity, population growth and sustainable development: A case study from the Philippines. *Journal of Environmental Management*. 27: 347-367.

Williamson, A. N. 1992. Map scanning for GIS application. *Photogrammetric Engineering and Remote Sensing*. 58(8): 1199-1202.

มหาวิทยาลัยเชียงใหม่
Chiang Mai University