

References

- Acharya, G.P.; Tripathi, B.P.; McDonald, M.A. (2003) *Interventions to Minimize Nutrient Losses from Bari Land (Rainfed Upland) in the Middle Hills of the Western Development Region of Nepal*. Paper presented at the Renewable Natural Resources Research for Mountain Communities Symposium and Workshop 24 February to March 1, 2003, Kathmandu, Nepal
- ADB (2003) *A Note on Floods in Bangladesh*. ADB. URL: www.adb.org/Documents/Periodicals/ERO/2001/floods-ban.asp (last visited on May 28, 2003)
- Adhikari, J.; Bohle, H.G. (1999) 'Urbanization, Government Policies and Growing Food Insecurity in Kathmandu Metropolis'. In, *Studies in Nepali History and Society*, Vol. 4. No. 1: 191-246.
- Adhikari, T.R.; Upadhyay, B.P.; Dhakal, M.P.; Dangol, P.M.; Shrestha, S.; Nakarmi, G.; Prajapati-Merz, B.; Jha, P.C. (2003) 'Sustainable Water Management in the Jhikhu Khola Catchment'. In, Domroes, M. (ed.) *Translating Development – the Case of Nepal*, pp. 47-78. New Delhi: Social Science Press
- Agarwal, A.; Narain, S. (eds.) (1991) *Floods, Flood Plains and Environmental Myths, State of India's Environment*, Report 3. New Delhi: Centre for Science and Environment
- Agarwal, A.; Narain, S. (eds.) (1997) *Dying Wisdom: State of India's Environment*, Report 4. New Delhi: Centre for Science and Environment
- Alcamo, J.; Henrichs, T.; Roesch, T. (2000) *World Water in 2025 – Global Modeling and Scenario Analysis for the World Commission on Water for the 21st Century*, Kasser World Water Series Report No. 2. Kassel: Centre for Environmental Systems Research, University of Kassel
- Alford, D (1992) *Hydrological Aspects of the Himalayan Region*. Occasional Paper No. 18, Kathmandu: ICIMOD
- Allen, R. (2000) 'Degradation Issues in the Hindu Kush-Himalayas'. In, Bridges, E.M.; Oldeman, R.; Scherr, S.J.; Hannam, I.; Penning de Vries, F.; Sombatpanit, S. (eds.) *Responses to Land Degradation*, Bangkok: Soil and Water Conservation Society of Thailand
- Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (2000) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop Held in Baoshan, 2-5 March 1999*. Kathmandu: ICIMOD
- Anderson, M.G.; Burt, T.P. (1990) 'Subsurface Runoff'. In, Anderson, M.G.; Burt, T.P. *Process Studies in Hillslope Hydrology*, pp. 365-400. Chichester: John Wiley and Sons
- Andersson, L.; Quinn, P. (1999) 'Natural Rules of the Game'. In, Falkenmark, M.; Andersson, L.; Castensson, R.; Sundblad, K. In, *Water – a Reflection of Land Use. Options for Counteracting Land and Water Mismanagement*. Stockholm: Swedish Natural Science Research Council
- Anonymous (1981) 'Operational Research Project on Watershed Management at Fakot-Dehradun'. In, *Annual Report 1981*, pp 131-133. Dehradun: Central Soil and Water Conservation Research and Training Institute
- Anonymous (1984) 'Operational Research Project on Watershed Management'. In, *Annual Report 1984*, pp 182-183. Dehradun: Central Soil and Water Conservation Research and Training Institute
- Apel, H.; Paudyal, M.S.; Richer, O. (2002) 'Environmental Risk Assessment of Pesticide Use Based on the Modelling of the Environmental Fate of Pesticides in the Soil'. In, Herrmann, A.; Schumann, S. (eds.) *International Workshop on Environmental Risk Assessment of Pesticides and Integrated Pesticide Management in Developing Countries*, pp 13-23. Heft 38. Braunschweig: Institut fuer Geoökologie, Technische Universität Braunschweig
- Arnold, J.G.; Srinivasan, R.; Muttiah, R.S.; Williams, J. R. (1998) *Large Area Hydrologic Modeling and Assessment: Part I. Model Development*, 34(1): 73-89. JAWRA

- Baidya, S.K. (2001) 'Wind Resources of Nepal'. In, ITDG/MoST/ICIMOD *Wind Energy Development in Nepal. Proceedings of a National Workshop, Kathmandu, March 7-8, 2001*, pp 50-69. Kathmandu: Intermediate Technology Development Group
- Baillie, I.C.; Merz, J.; Jensen, F. (2002) *Proposals for Watershed Management and Land Use Planning in the Wang Basin*. Document 41. Paro: Wang Watershed Management Project, Ministry of Agriculture, Royal Government of Bhutan
- Bandyopadhyay, J.; Rodda, J.C.; Kattelman, R.; Kundzewicz, Z.W.; Kraemer, D. (1997) 'Highland Waters – a Resource of Global Significance'. In, Messerli, B.; Ives, J.D. (eds.) *Mountains of the World. A Global Priority*. New York: Parthenon Publishing Group
- Banskota, M.; Sharma, P.; Sadeque, S.Z.; Bajracharya, B.; Chhetry, D.; Khanal, N. (1997) *Districts of Nepal. Indicators of Development*. Kathmandu: ICIMOD
- Banskota, M.; Papola, T.S.; Richter, J. (2000) 'Development in Mountain Areas of South Asia – Issues and Options'. In, Banskota, M.; Papola, T.S.; Richter, J. (eds.) *Growth, Poverty Alleviation and Sustainable Resource Management in the Mountain Areas of South Asia*, pp 31-105. Feldafing: Deutsche Stiftung fuer Internationale Entwicklung
- Bastola, S. (2002) *Parameterisation of Tank and UBC Models for Jhikhu Khola Catchment*. Unpublished report. Kathmandu: PARDYP
- Bastola, S.; Sugawara, M.; Shakya, N.M.; Hamasaki, T. (2002) *A Continuous, Lumped Tank Hydrological Model with Optimisation Capability Using Genetic Algorithm*. Osaka: Department of Human Environment, Faculty of Human Environment, Osaka Sangayo University
- Baumgartner, A.; Liebscher, H.J. (1996) *Allgemeine Hydrologie. Quantitative Hydrologie*, 2nd edition. Berlin: Gebrueder Borntraeger
- Becker, A. (1986) 'Neue Anforderungen und Loesungen bei der grossflaechigen hydrologischen Modellierung'. In, *Wasserwirtschaft – Wassertechnik*, Vol. 36, No. 7: 150-152.
- Bergstroem, S. (1976) *Development and Application of a Conceptual Runoff Model for Scandinavian Catchments*. Bulletin Series A, No. 52. Lund: University of Lund
- Betson, P.B. (1964) 'What is Catchment Runoff?' In, *J. Geophys. Res.*, 69 (8): 1541-1552
- Beven, K.; Lamb, R.; Quinn, P.; Romanowicz, R.; Freer, J. (1995a) 'TOPMODEL'. In, Singh, V. P. *Computer Models of Catchment Hydrology*, Highlands Ranch: Water Resources Publication
- Beven, K.J.; Lamb, R.; Quinn, P.; Romanowicz, R.; Freer, J. (1995b) *TOPMODEL and GRIDATB: a User's Guide to the Distribution Versions*. CRES Tech. Rep. TR110, 2nd ed. Lancaster: Lancaster University
- Beven, K.J. (2001) *Rainfall-runoff Modelling: the Primer*. Chichester: John Wiley & Sons
- Bhaumik, S. (2003) *World's Wettest Area Dries Up*. British Broadcasting Corporation http://news.bbc.co.uk/hi/south_asia/2977169.stm (last visited on May 8, 2003)
- Blaikie, P.; Cannon, T.; Davis, I.; Wisner, B. (1994) *At Risk: Natural Hazards, People's Vulnerability and Disasters*. London: Routledge
- Boormann, D.; Jenkins, A.; Collins, R. (1998) 'Rainfall-runoff Data and Modelling in the Likhu Khola Catchment', Nepal. In, Chalise, S.R.; Herrmann, A.; Khanal, N.R.; Lang, H.; Molnar, L.; Pokhrel, A. (eds.) *Ecohydrology of High Mountain Areas. Proceedings of the International Conference of Ecohydrology of High Mountain Areas, Kathmandu, 24-28 March 1996*, pp 117-127. Kathmandu: ICIMOD
- Brasington, J.; Richards, R. (2000). 'Turbidity and Suspended Sediment Dynamics in Small Catchments in the Nepal Middle Hills'. In, *Hydrological Processes*, Vol. 14: 2559-2574
- Braun, L.N.; Grabs, W.; Rana, B. (1993) 'Application of a Conceptual Precipitation-Runoff Model in the Langtang Khola Basin, Nepal Himalaya'. In, Young, G.J. (ed.) *Snow and Glacier Hydrology*, pp. 221-237. Publ. No. 218. Wallingford: IAHS
- Breinlinger, R. (1995) *Hydrogeographische Raumgliederung der Schweiz und ihre Bedeutung fuer die Hydrologie*. PhD Thesis. Bern: Department of Geography, University of Bern

- Brooks, K.N.; Ffolliott, P.F.; Gregersen, H.M.; Thames, J.L. (1991) *Hydrology and the Management of Catchments*. Ames: Iowa State University Press
- Brown, S.J. (1997) *Soil Fertility, Nutrient Dynamics and Socio-economic Interactions in the Middle Mountains of Nepal*. Unpublished PhD Thesis. Vancouver: University of British Columbia
- Brown, S.J.; Schreier, H.; Shah, P.B.; Lavkulich, L.M. (1999) 'Modelling of Soil Nutrient Budgets: an Assessment of Agricultural Sustainability in Nepal'. In, *Soil Use Management* Vol. 15: 101-108
- Brown, S.J. (2000a) 'The Use of Socio-economic Indicators in Resource Management'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop Held in Baoshan, 2-5 March 1999*, pp 15-25. Kathmandu: ICIMOD
- Brown, S.J. (2000b) 'Gender and Resources: Indicators and Interactions'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop Held in Baoshan, 2-5 March 1999*, pp 27-34. Kathmandu: ICIMOD
- Brown, S.; Schreier, H. (2000) 'Nutrient Budgets: a Sustainability Index'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop Held in Baoshan, 2-5 March 1999*, pp 291-300. Kathmandu: ICIMOD
- Bruijnzeel, L.A.; Bremmer, C.N. (1989) *Highland-lowland Interactions in the Ganges Brahmaputra River Basin: a Review of Published Literature*. Occasional Paper No. 11. Kathmandu: ICIMOD
- Bruijnzeel, L.A. (1990) *Hydrology of Moist Tropical Forests and Effects of Conversion: a State of Knowledge Review*. Humid Tropics Programme of the International Hydrological Programme. Paris and Amsterdam: UNESCO and Vrije Universiteit Amsterdam
- Brunsdon, D.; Jones, D.K.C.; Martin, R.P.; Doornkamp, J.C. (1981) 'The Geomorphological Character of Part of the Low Himalaya of Eastern Nepal'. In, *Zeitschrift fuer Geomorphologie* Vol. 37 (Supplement) 26-72
- Buchtele, J.; Buchtelova, M.; Herrmann, A.; Bajracharya, O.R. (1998) 'Precipitation-Runoff Simulations for Small Himalayan Basins in Nepal with Important Snow Deposits'. In, Chalise, S.R.; Herrmann, A.; Khanal, N.R.; Lang, H.; Molnar, L.; Pokhrel, A. (eds.) *Ecohydrology of High Mountain Areas. Proceedings of the International Conference of Ecohydrology of High Mountain Areas, Kathmandu, 24-28 March 1996*, pp 331-346. Kathmandu: ICIMOD.
- Calder, I. (2000) *Land Use Impacts on Water Resources*. Discussion paper for the electronic workshop on Land-Water Linkages in Rural Catchments, 18 September -27 October 2000. Rome: FAO
- Carson, B. (1985) *Erosion and Sedimentation Processes in the Nepalese Himalaya*. Occasional Paper No. 1. Kathmandu: ICIMOD
- Carson, B.; Shah, P.B.; Maharjan, P.L. (1986) *Land Resource Mapping Project: Land Systems Report—the Soil Landscape of Nepal*. Kathmandu: Land Resources Mapping Project
- Carver, M.; Schreier, H. (1995) 'Sediment and Nutrient Budgets Over Four Spatial Scales in the Jhikhu Khola Catchment; Implications for Land Use Management'. In, Schreier, H.; Shah, P.B.; Brown, S. (eds.) *Challenges in Mountain Resource Management in Nepal. Processes, Trends, and Dynamics in Middle Mountain Catchments. Proceedings of a Workshop Held in Kathmandu, 10-12 April 1995*, pp 163-170. Kathmandu: ICIMOD
- Carver, M. (1997) *Diagnosis of Headwater Sediment Dynamics in Nepal's Middle Mountains: Implications for Land Management*. Unpublished PhD Thesis. Vancouver: University of British Columbia
- CEAPRED (2003) *Water and Poverty Linkages in Mountainous Areas: A Case Study from Nepal*. Report submitted to IWMI. Kathmandu: CEAPRED
- CEH (2002) *Using the Water Poverty Index to Monitor Progress in the Water Sector*. Wallingford: Centre for Ecology and Hydrology

- CEMAT (2000) *Report on Surface Water Quality Monitoring Works of Kathmandu Valley (Winter Season)*. Urban Water Supply Reforms in the Kathmandu Valley Project. Kathmandu: CEMAT
- Central Water Commission [CWC] (1989) *Water and Related Statistics*. New Delhi: Statistics Directorate, CWC
- Chalise, S.R.; Bhatta, B.R.; Shengji, P.; Shah, P.B.; Gurung, J.D. (1993) *Natural Resources Management in a Mountain Environment*. ICIMOD 10th Anniversary Symposium on Mountain Environment and Development – Constraints and Opportunities. Kathmandu: ICIMOD
- Chalise, S.R. (1994) 'Mountain Environments and Climate Change in the Hindu Kush-Himalayas'. In, Beniston, M. (ed.) *Mountain Environments in Changing Climate*, pp 382-404. London: Routledge
- Chalise, S.R.; Shrestha, M.L.; Thapa, K.B.; Shrestha, B.R.; Bajracharya, B. (1996) *Climatic and Hydrological Atlas of Nepal*. Kathmandu: ICIMOD
- Chalise, S.R. (2000) 'Water Resources Management in the HKH: An Overview'. In, Banskota, M.; Chalise, S.R. (eds.) *Waters of Life. Perspectives of Water Harvesting in the Hindu Kush-Himalayas*. Kathmandu: ICIMOD
- Chalise, S.R.; Sial, S.A. (2000) 'Water for Mountain Households in the Hindu Kush-Himalayas'. In, Mehrotra, R.; Soni, B.; Bhatia, K.K.S. (eds.) *Integrated Water Resources Management for Sustainable Development*. Volume I. Proceedings of the International Conference on Integrated Water Resources Management for Sustainable Development, New Delhi, December 19-21, 2000, pp 602-610. Roorkee: National Institute of Hydrology
- Chalise, S.R. (2001) 'An Introduction to Climate, Hydrology and Landslide Hazards in the Hindu Kush-Himalayan Region'. In, Li, T.; Chalise, S.R.; Upreti, B.N. (eds.) *Landslide Hazard Mitigation in the Hindu Kush-Himalayas* pp 51-62. Kathmandu: ICIMOD
- Chalise, S.R.; Khanal, N.R. (2002) 'Recent Extreme Weather Events in the Nepal Himalayas'. In, Snorrason, A.; Finnsdottir, H.P.; Moss, M.E. (eds.) *The Extremes of the Extremes: Extraordinary Floods*. Proceedings of a Symposium Held in Reykjavik, July 2000, pp 141-146. Publ. No. 271. Wallingford: IAHS
- Chander, S.; Gosain, A.K. (1995) 'Impact of Landuse Changes on Hydrology of Head Water Regions of Ramganga Basin'. In, Singh, R.B.; Haigh, M.J. (eds.) *Sustainable Reconstruction of Highland and Headwater Regions*, pp 241-252. New Delhi: Oxford & IBH Pub.
- Chow, V.T.; Maidment, D.R.; Mays, L.W. (1988) *Applied Hydrology*. New York: McGraw-Hill Inc.
- Chyurlia, J.P. (1984) *Water Resources Report*. Land Resources Mapping Project. Ottawa: Kenting Earth Science Ltd.
- Close, M.E.; Rosen, M.R.; Smith, V.R. (2001) 'Fate and Transport of Nitrates and Pesticides in New Zealand's Aquifers'. In, Rosen, M.R.; White, P.A. (eds.) *Groundwaters of New Zealand*. Wellington: New Zealand Hydrological Society
- Collins, R.P.; Dickinson, A.; Johnson, R. (1998a) 'The Use of GIS and Remote Sensing Techniques to Predict Erosion in the Nepal Middle Hills'. In, Penning de Vries, F.W.T.; Argus, F.; Kerr, J. (eds.) *Soil Erosion at Multiple Scales* pp 303-315. U.K., Wallingford: CAB International
- Collins, R.P.; Jenkins, A.; Sloan, W.T. (1998b) 'A GIS Framework for Modelling Nitrogen Leaching from Agricultural Areas in the Middle Hills, Nepal'. In, *International Journal of Geographical Information Science*, Vol. 12 No. 5: 479-490
- Cosgrove, W.J.; Rijsberman, F.R. (2000) *World Water Vision – Making Water Everybody's Business*. London: Earthscan Publications
- Critchley, W.R.S.; Bruijnzeel, L.A. (1995). 'Terrace Risers: Erosion Control or Sediment Source?' In, R.B. Singh; Haigh, M.J. (eds.) *Sustainable Reconstruction of Highland and Headwater Regions*, pp 529-541. New Delhi: Oxford/IBP Press
- CSD (2001) *CSD Theme Indicator Framework*. http://www.un.org/esa/sustdev/natlinfo/indicators/isdms2001/table_4.htm. (last visited on May 24, 2003)

- Dangol, P.M.; Merz, J.; Weingartner, R. (2002) 'Flood Generation in the Middle Mountains of Nepal'. In, Spreafico, M.; Weingartner, R. (eds.) *Proceedings of the International Conference on Flood Estimation, March 6-8, 2002*, pp 85-92. Lelystad: International Commission for the Hydrology of the Rhine Basin
- Dangol, P.M.; Shrestha, S.K.; Nakarmi, G.; Merz, J.; Dhakal, M.P.; Dongol, B.S.; Prajapati-Merz, B.; Schaffner, M.; Von Westarp, S. (in prep.) 'Jhikhu Khola Catchment, PARDYP Nepal'. In, Merz, J.; Shrestha, B.; Weingartner, R. (eds.) *Regional Synthesis of Water and Erosion Activities in PARDYP*. Kathmandu: PARDYP
- Delft Hydraulics (1999) *HYMOS Version 4.01-Manual*. Delft: Delft Hydraulics
- DHI (1994) *Flood Management Model. Volume 2: Application and Demonstration*. FAP 25, Final Report. Dhaka: Bangladesh. Flood Plan Coordination Organization
- Dhital, M.R.; Khanal, N.; Thapa, K.B. (1993) *The Role of Extreme Weather Events, Mass Movements, and Land Use Changes in Increasing Natural Hazards*. Kathmandu: ICIMOD
- DHM (2000) *Daily Precipitation Records of Janakpur and Sagarmatha Zones through 1996*. Kathmandu: Department of Hydrology and Meteorology
- Dixon, J.; Gulliver, A.; Gibbon, D. (2001) *Farming Systems and Poverty – Improving Livelihoods in a Changing World*. Rome: FAO
- Dobremez, J.F. (1976) *Le Nepal: Ecologie et Biogeographie*. Paris: CNRS
- Domroes, M. (1978) 'Temporal and Spatial Variations of Rainfall in the Himalaya with Particular Reference to Mountain Ecosystems'. In, Rieger (ed.) *Dialogue 76/77 – Proceedings of the Seminar on Himalayan Mountain Ecosystems, New Delhi 1977*, pp 63- 75. Bombay: Max Mueller Bhavan
- Dongol, B.S.; Dhakal, M.P.; Merz, J. (1998) *Discharge Measurement with Current Meter Method*. Internal Working Paper. Kathmandu: PARDYP
- Dongol, B.S. (2003) *Low Flow Study of Jhikhu and Yarsha Khola Catchments*. Unpublished report. Kathmandu: PARDYP
- Dongol, B.S.; Dangol, P.M.; Dhakal, M.P.; Shah, P.B.; Shrestha, S.K.; Bajracharya, D.R.; Merz, J. (2003) *First Assessment of Ground Water Status in Jhikhu Khola Catchment, Nepal*. Paper presented at 1st SOHAM Conference, March 23, 2003. Kathmandu: SOHAM
- Dongol, K. (no date) *A Case Study of Kulekhani Catchment*. Kathmandu: Department of Soil Conservation and Watershed Management
- Doorenbos, J.; Kassam, A.H.; Bentvelsen, C.L.M.; Branscheid, V.; Plusje, J.M.G.A., Smith, M.; Uittenbogaard, G.O.; Van der Wal, H.K. (1979) *Yield Response to Water*. FAO Irrigation and Drainage Paper No. 33. Rome: FAO
- Duester, H. (1994) 'Modellierung der Räumlichen Variabilität Seltener Hochwasser in der Schweiz'. *Geographica Bernensia* G44. Bern: Geographisches Institut, Universität Bern
- Dunne, T.; Leopold, L.B. (1978) *Water in Environmental Planning*. San Francisco: Freeman & Co
- Dyck, S. (1980) *Angewandte Hydrologie*. Teil 1: Berechnung und Regelung des Durchflusses der Flüsse. 2nd Edition. Berlin: VEB
- Eckholm, E. (1976) *Losing Ground. Environmental Stress and World Food Prospects*. New York: W.W. Norton & Company
- Engel, B.A. (1996) 'Methodologies for Development of Hydrological Response Units Based on Terrain, Land Cover and Soils Data'. In, *GIS and Environmental Modelling*, pp 123-128. New York: Oxford University Press
- Falkenmark, M. (1999) 'A Land Use Decision is Also a Water Decision'. In, Falkenmark, M.; Andersson, L.; Castensson, R.; Sundblad, K. *Water – A Reflection of Land Use. Options for Counteracting Land and Water Mismanagement*, pp 58-78. Stockholm: Swedish Natural Science Research Council

- Falkenmark, M. (2000) 'Competing Freshwater and Ecological Services in the River Basin Perspective - an Expanded Conceptual Framework'. In, *Water International*, Vol. 25, No. 2: pp 172-177
- FAO (1977) *Crop Water Requirements*. FAO Irrigation and Drainage Paper No. 24. Rome: FAO
- FAO (1990) *Selected Indicators of Food and Agriculture in Asia Pacific Region, 1979-1989*. Bangkok: FAO
- FAO (1998) *Crop Evapotranspiration – Guidelines for Computing Crop Water Requirements*. Irrigation and Drainage Paper 56. Rome: FAO
- FAO (1999) *World Soil Resources Map*. www.fao.org/WAICENT/FAOINFO/SUSTDEV/Eldirect/gis/Elgis000.htm (last visited on October 25, 2002)
- FAO (2001a) *Global Forest Resources Assessment 2000*. Main Report. FAO Forestry Paper 140. Rome: FAO
- FAO (2001b) FAOCLIM 2 – *World Wide Agroclimatic Database*. Version 2.01. CD-ROM. Rome: FAO
- FAO (2002) *Land-Water Linkages in Rural Catchments*. FAO Land and Water Bulletin 9. Rome: FAO
- FAO/IIASA (2002) *Global Agroecological Zones*. <http://www.iiasa.ac.at/Research/LUC/GAEZ/index.htm> (last visited on July 14, 2002)
- Ferguson, R. (1984) 'Sediment Load of the Hunza River'. In, Miller, K. (ed.) *International Karakorum Project*, Vol. 2, pp 581-598. Cambridge: Cambridge University Press
- Flohn, H. (1970), 'Beitraege zur Meteorologie des Himalaya'. In, Hellmich, W. (ed.) *Khumbu Himal*, pp 25-45. Muenchen: [no publisher given]
- Fluegel, W.A. (1997) 'Combining GIS with Regional Hydrological Modelling using Hydrological Response Units (HRUs): an Application from Germany'. In, *Mathematics and Computers in Simulation*, 43: 297-304
- Galay, V.J.; Okaji, T.; Nishino, K. (1995) 'Erosion from the Kulekhani Catchment, Nepal during the July 1993 Rainstorm'. In, Schreier, H.; Shah, P.B.; Brown, S. (eds.) *Challenges in Mountain Resource Management in Nepal. Processes, Trends, and Dynamics in Middle Mountain Catchments. Proceedings of a Workshop Held in Kathmandu, 10-12 April 1995*, pp 13-24. Kathmandu: ICIMOD
- Galay, V.; Schreier, H.; Bestbier, R. (2001) *Himalayan Sediments. Issues and Guidelines*. CD-ROM. Vancouver: Canadian International Development Agency and Canadian International Water and Energy Consultants
- Gao, F.; Ma, X.; Duan, S.; Xu, J.; Wang, Y. (in prep.) 'Xizhuang Catchment, PARDYP China'. In, Merz, J.; Shrestha, B.; Weingartner, R. (eds.) *Regional Synthesis of Water and Erosion Activities in PARDYP*. Kathmandu: PARDYP
- Gardner, R.; Jenkins, A. (1995) *Land Use, Soil Conservation and Water Resource Management in the Nepal Middle Hills*. London: Institute of Hydrology and Royal Geographical Society
- Gardner, R.; Mawdesley, K.; Tripathi, B.; Gaskin, S.; Adams, S. (2000) *Soil Erosion and Nutrient Loss in the Middle Hills of Nepal (1996-1998)*. Kathmandu and London: NARC and Queen Mary and Westfield College, University of London
- Germann, P.F. (1990) 'Macropores and Hydrological Hillslope Processes'. In, Anderson, M.G.; Burt, T.P. (eds.). *Process Studies in Hillslope Hydrology*, pp 327-363. Chichester: John Wiley and Sons
- Gerrard, J. (2002) *Landsliding, Runoff and Soil Loss in the Likhu Khola Drainage Basin, Middle Hills, Nepal*. Case study for the Bishkek Global Mountain Summit. <http://www.mtnforum/bgms/papere1.htm> (last visited on June 23, 2002)
- Gleick, P.H. (1996) 'Basic Water Requirements for Human Activities: Meeting Basic Needs'. In, *Water International*, Vol. 21 No. 1: 83-92
- Gleick, P.H. (2000) *The World's Water 2000 – 2001*. Washington: Island Press

- Gommes, R.A. (1983) *Pocket Computers in Agrometeorology*. FAO Plant Production and Protection Paper 45. Rome: FAO
- Grabs, W.E.; Bajracharya, O.R.; Hottel, C. Kayastha, R. (1998) 'Snow and Glacier Hydrology in Nepal: Project Results for the Provision of Data and Information for Water Resources Development'. In, Chalise, S.R.; Herrmann, A.; Khanal, N.R.; Lang, H.; Molnar, L.; Pokhrel, A. (eds.) *Ecohydrology of High Mountain Areas. Proceedings of the International Conference of Ecohydrology of High Mountain Areas, Kathmandu, 24-28 March 1996*, pp 347-358. Kathmandu: ICIMOD
- Grassroots (no date) *Techno-economic Appraisal of Infiltration Wells/Handpumps in the Kumaon Himalaya*. Ranikhet: Pan Himalayan Grassroots Development Foundation
- Grayson, R.B.; Bloeschl, G.; Moore, I.D. (1995) 'Distributed Parameter Hydrologic Modelling Using Vector Elevation Data: THALES and TAPES-C'. In, Singh, V.P. *Computer Models of Catchment Hydrology*. Highlands Ranch: Water Resources Publication
- GRDC (1998) *Long-term Mean Monthly Discharge from Selected GRDC Stations*. www.bafg.de/grdc.htm (last visited on October 25, 2002)
- Gurtz, J.; Baltensweiler, A.; Lang, H.; Menzel, L.; Schulla, J. (1997) *Auswirkungen von klimatischen Variationen auf Wasserhaushalt und Abfluss im Flussgebiet des Rheins*. Zuerich: vdf Hochschulverlag, ETH Zuerich
- Gurtz, J.; Baltensweiler, A.; Lang, H. (1999) 'Spatially Distributed Hydrotope-based Modelling of Evapotranspiration and Runoff in Mountainous Basins'. In, *Hydrological Processes*, Vol. 13: 2751-2768
- Gurung, H. (2002) *Physical and Cultural Patterns in the Himalaya*. Paper presented at the International Seminar on Mountains, Kathmandu, March 6-8, 2002. <http://www.mtnforum.org/resources/library/guruh02a.htm> (last visited 13/07/02)
- Hamon, W.R. (1961) 'Estimating Potential Evapotranspiration'. In, *Proceedings of the American Society of Civil Engineers, Journal of the Hydraulic Division*, Vol. 87, no. HY3: 107-120
- Hansen, E.M., Fenn, D.D.; Schreiner, L.C.; Stodt, R.W.; Miller, J.F. (1988) *Probable Maximum Precipitation Estimates – United States between the Continental Divide and the 103rd Meridian. Hydrometeorological Report Number 55A*. Silver Spring: National Weather Service, National Oceanic and Atmospheric Administration, US Department of Commerce
- Harrison, J.; Winterbottom, S.; Johnson, R. (2001) *Climate Change and Changing Patterns of Snowfall in Scotland*. Edinburgh: The Scottish Executive Central Research Unit
- Helsel, D.R.; Hirsch, R.M. (1992) *Statistical Methods in Water Resources*. Studies in Environmental Science 49. Amsterdam: Elsevier
- Herrmann, A.; Schumann, S. (2002) 'Collaborative Project on Environmental Risks of Pesticides and Sustainable Development of Integrated Pesticide Management System (IPMS) in Nepal Considering Socio-economic Conditions'. In, Herrmann, A.; Schumann, S. (eds.) *International Workshop on Environmental Risk Assessment of Pesticides and Integrated Pesticide Management in Developing Countries*, pp 38-48. Heft 38. Braunschweig: Institut fuer Geoökologie, Technische Universität Braunschweig
- Hillel, D (1998) *Environmental Soil Physics*. San Diego: Academic Press
- HMG (1996a) *Charikot*. Sheet No. 2786 05A. Kathmandu: Survey Department, HMG
- HMG (1996b) *Jiri Bajar*. Sheet No. 2786 05B. Kathmandu: Survey Department, HMG
- HMG (1996c) *Melun*. Sheet No. 2786 05C. Kathmandu: Survey Department, HMG
- HMG (1996d) *Hatdada*. Sheet No. 2786 05D. Kathmandu: Survey Department, HMG
- Hofer, T.; Messerli, B. (1997) *Floods in Bangladesh – Process Understanding and Development Strategies*. Bern: Institute of Geography, University of Bern
- Hofer, T. (1998a) 'Floods in Bangladesh – a Highland-Lowland Interaction?' *Geographica Bernensia* 648. Bern: Institute of Geography, University of Bern

- Hofer, T. (1998b) *Hydrometeorological Measurements and Analysis in Interdisciplinary Catchment Projects*. Discussion Paper MNR 98/3. Kathmandu: ICIMOD
- Horton, R.E. (1933) 'The Role of Infiltration in the Hydrologic Cycle'. In, *Trans. Am. Geophys. Union* 14: 446-460
- Ibbitt, R.P.; McKerchar, A.I. (1992) 'Streamflow and the Use of Models'. In, Mosley, M.P. (ed.) *Waters of New Zealand*. Wellington: New Zealand Hydrological Society
- ICIMOD (1996a) *People and Resource Dynamics in Mountain Catchments of the Hindu Kush-Himalayas*. Project Document. Kathmandu: ICIMOD
- ICIMOD (1996b) *Mountain Resources Management. Final Report*. Kathmandu: ICIMOD
- ICIMOD (1999) *People and Resource Dynamics in Mountain Catchments of the Hindu Kush-Himalayas – Phase 2*. Project Document. Kathmandu: ICIMOD
- ICIMOD (2000) Mountain Flash Floods. Newsletter No. 38. Kathmandu: ICIMOD
- ICIMOD (2002a) *Main Causes of Land Degradation in the Region*. <http://www.icimod.org/hkh/hkhmajor.html> (last visited on July 2, 2002)
- ICIMOD (2002b) *Overview of the Hindu Kush-Himalayan Region*. <http://www.icimod.org/hkh/mtn.htm> (last visited on July 2, 2002)
- ICIMOD (2002c) *ICIMOD 2001. Annual Report*. Kathmandu: ICIMOD
- ICIMOD (2002d) *Water and Erosion Studies of PARDYP Nepal. Data of the Jhikhu Khola Catchment*. Kathmandu: ICIMOD
- ICIMOD (2002e) *Water and Erosion Studies of PARDYP Nepal. Data of the Yarsha Khola Catchment*. Kathmandu: ICIMOD
- ICIMOD (2002f) *Water and Erosion Studies of PARDYP Nepal. Data of the Jhikhu Khola Catchment - Summary*. Kathmandu: ICIMOD (in Nepali)
- ICIMOD (2002g) *Water and Erosion Studies of PARDYP Nepal. Data of the Yarsha Khola Catchment - Summary*. Kathmandu: ICIMOD (in Nepali)
- ICIMOD (2003) *People and Resource Dynamics in Mountain Catchments of the Hindu-Kush-Himalayas. Project Document for Phase III*. Kathmandu: ICIMOD
- IDS (2000) *Sustainable Livelihoods Approach – Guidance Sheets*. http://www.livelihoods.org/info/info_guidancesheets.html (last visited March 29, 2003)
- IGCEDP (2001) 'Efficient Water Resources Development and Management'. In, *Approaches to Participatory Natural Resource Management, No. 5*. Palampur: Indo-German Changar Eco-Development Project
- IIASA (1999) *Population Projections for SRES Scenarios*. http://www.iiasa.ac.at/Research/POP/IPCC/ipcc_sres.html (last visited on May 22, 2003)
- IIDS (2001) *Quality of Water in the GBM Region*. Kathmandu: Institute for Integrated Development Studies
- ILACO (1981) *Agricultural Compendium for Rural Development in the Tropics and Subtropics*. Amsterdam: Elsevier Scientific Publishing Company
- Impat, P. (1981) *Hydrometeorology and Sediment Data for Phewa Catchment: 1979 Data*. Phewa Tal Technical Report 15. Integrated Watershed Management Project. Kathmandu: Department of Soil Conservation and Watershed Management
- Integrated Survey Section (1989) Jhikhu Khola Catchment. Kathmandu: Topographic Survey Branch, Department of Survey
- IPCC (1998) *The Regional Impacts of Climate Change – an Assessment of Vulnerability*. Cambridge: Cambridge University Press
- Ives, J.D. (1986) *Glacial Lake Outburst Floods and Risk Engineering in the Himalaya*. Occasional Paper No. 5. Kathmandu: ICIMOD

- Ives, D.J.; Messerli, B. (1989) *The Himalayan Dilemma – Reconciling Development and Conservation*. London: Routledge
- Jackson, M.; Bilham, R. (1994) 'Constraints on Himalayan Deformation Inferred from Vertical Velocity Fields in Nepal and Tibet'. In, *Journal of Geophysical Research*. Vol. 99: 13897-13912
- Jain, M.K. (1990) *Rainfall Runoff Modeling in Mountainous Catchments. Status Report to Developing Capabilities for Hydrological Research IND/90/03*. Roorkee: National Institute of Hydrology
- Jain, S.K.; Kumar, N.; Ahmad, T.; Kite, G.W. (1998) 'SLURP Model and GIS for Estimation of Runoff in a Part of Satluj Catchment, India'. In, *Hydrological Sciences Journal*, Vol. 43 No. 6: 875-884
- Jain, S.K.; Storm, B.; Bathurst, J.C.; Refsgaard, J.C.; Singh, R.D. (1992) 'Application of SHE to Catchments in India. Part 2: Field Experiments and Simulation Studies with SHE on the Kolar Sub-catchment of the Narmada River'. In, *Journal of Hydrology* Vol. 140: 25-57
- Jayatilaka, C.; Connell, L.D. (1995) *A Review of Catchment Scale Hydrologic Modeling Approaches*. Report 95/5. Melbourne: Cooperative Research Centre for Catchment Hydrology
- Jehangir, M.; Zokaib, S. (2001) *Hydrological and Meteorological Data of Hilkot Catchment*. Peshawar: PARDYP/ PFI
- Jehangir, M.; Shah, H.; Zokaib, S. (2002) *Yearbook 2001 Hydrometeorology*. Peshawar: PARDYP/ PFI
- Jensen H. (1982) *Modell HBV fuer die Tagesmittel des Abflusses. Kurz- und langfristige Abflussprognosen fuer den Rhein bei Rheinfelden*. Report 100.30. Zuerich: Versuchsanstalt fuer Wasserbau, Hydrologie und Glaziologie
- Jodha, N. (1997) 'Mountain Agriculture'. In, Messerli, B.; Ives, J.D. *Mountains of the World – a Global Priority*, pp 313-336. New York: Parthenon Publishing Group
- Jodha, N.S. (2000). *Globalisation and Fragile Mountain Environments: Policy Challenges and Choices*. Mountain Research and Development, 20: 296-299
- Jodha, N.S. (in print) 'Economic Globalisation and its Repercussions for Fragile Mountains and Communities in Himalayas'. In, Huber; Bugmann, Reasoner (eds.) *Global Change and Mountain Regions: a State of Knowledge Overview*. Dordrecht: Kluwer Academic Publishers
- Joshi, J.; Bhattarai, T.N.; Staphit, K.M.; Omura, H. (1998) 'Soil Erosion and Sediment Disaster in Nepal – a Review'. In, *J. Fac. Agr.*, Kyushu University 42 (3-4): 491-502
- Joshi, V.; Negi, G.C.S. (2002) 'Rainfall Characteristics, Overland Flow and Soil Loss under Three Vegetation Types in the Himalayan Mountains'. In, *Hydrology Journal*, Vol. 25, No's. 2 and 3: 55-64
- K.C., B.R.; Subedi, B.P.; Gurung, Y.B. (1998) *Migration Pattern in Nepal: Streams, Characters and Reasons*. Paper presented at the National Seminar on the Dissemination of Findings of Migration Situation in Nepal. Kathmandu: Central Department of Population Studies, Tribhuvan University
- Kandel, D.D.; Western, A.; Grayson, R.; Turrall, H. (2002) 'Surface Runoff Modelling. Part 1: Testing at Fine Time Scale and Scaling-up to Daily Scale'. In, *Proceedings of the 27th Hydrology and Water Resources Symposium 2002, 20-23 May 2002*. Melbourne: The Institution of Engineers Australia.
- Kansakar, D.R. (2001) *Groundwater Resources in the Hills and Mountain Regions of Nepal*. Paper presented at the Workshop on Groundwater Resource Management, Kathmandu, December 20, 2001. Kathmandu: Unpublished workshop paper
- Kansakar, S.R.; Hannah, D.M.; Gerrard, J. (2002) 'Flow Regime Characteristics of Himalayan River Basins in Nepal'. In, van Lanen, H.A.J.; Demuth, S. (eds.) *Friend 2002 – Regional Hydrology: Bridging the Gap between Research and Practice*. IAHS Publ. no. 274. Wallingford: IAHS
- Kathmandu Post (2003) *Workshop to Discuss Impact of Climate Changes Kicks Off*. March 6, 2003
- Kayastha, R.N. (2001) 'Nepal'. In, *APO Water Use Efficiency in Irrigation in Asia*. Report of the Seminar in Taipei, 8-12 November 2000. Tokyo: Asian Productivity Organization

- Khanal, N.R.; Chalise, S.R.; Pokhrel, A.P. (1998) 'Ecohydrology of River Basins of Nepal'. In, Chalise, S.R.; Herrmann, A.; Khanal, N.R.; Lang, H.; Molnar, L.; Pokhrel, A. (eds.) *Ecohydrology of High Mountain Areas. Proceedings of the International Conference of Ecohydrology of High Mountain Areas Held in Kathmandu, 24-28 March 1996*, pp 49-61. Kathmandu: ICIMOD
- Kienholz, H. (1990) *Zur Beurteilung und Kartierung von Naturgefahren in Gebirgsregionen – Teil 1*. Bern: Department of Geography, University of Bern
- Kiff, E.; Thorne, P.J.; Pandit, B.H.; Thomas, D.; Amatya, S.M. (no date) *Livestock Production Systems and the Development of Fodder Resources for the Mid-hills of Nepal*. Kathmandu: Department of Forest/Natural Resources Institute/Nepal Agroforestry Foundation
- Kim, J.H.; Paik, K.R.; Lee, D.R.; Kim, H.S. (2001) 'Comparison of Optimisation Algorithms in Parameters Calibration of Tank Model'. In, *Proceedings of XXIX IAHR Congress*, Beijing, 16-21 September, 2001. Beijing: Tsinghua University Press
- Kite, G.W. (1995) 'The SLURP Model'. In, Singh, V.P. (ed.) *Computer Models of Catchment Hydrology*, pp 521-562. Highlands Ranch: Water Resources Publications
- Klemes, V. (1988) 'Foreword'. In, Molnar, L. (ed.) *Hydrology of Mountainous Areas*. IAHS Publ. 190: 7
- Kothyari, B.P.; Bhuchar, S.K.; Bisht, S.S.; Bisht, B.S.; Topal, Y.P.S.; Pant, P.; Prasad, B.K.R.; Joshi, B.K.; Verma, P.K.; Mishra, A.K.; Rawat, T.S.; Pande, R.K. (2001) *Annual Report 2000*. Almora: GBPIHED
- Kothyari, B.P.; Bhuchar, S.K.; Bisht, S.S.; Bisht, B.S.; Pant, P.; Joshi, B.K.; Verma, P.K.; Satyal, G.S.; Mishra, A.K.; Rawat, T.S.; Pande, R.K. (2002) *Annual Report 2001*. Almora: GBPIHED
- Kothyari, B.P. (2003) *Annual Report 2002*. Presentation at the Operational Planning Workshop 2003
- Kothyari, B.P.; Bisht, B.S.; Bisht, S.S.; Buchar, S.K. (2003) 'Pisciculture in the Indian Central Himalayas; a Potential Strategy for Improved Livelihoods'. In, Merz, J. (ed.) *Water and Mountains: International Year of Freshwater*. ICIMOD Newsletter No. 42. Kathmandu: ICIMOD
- Kraemer, R.A.; Choudhury, K.; Kampa, E. (2001) *Protecting Water Resources: Pollution Prevention*. Thematic Background Paper of the International Conference on Freshwater, Bonn 2001
- Kreutzmann, H. (2001) 'Development Indicators for Mountain Regions'. In, *Mountain Research and Development*, Vol. 21. No. 2: 132-139
- KU/ICIMOD (2001) *Capacity Building for Community Water Quality Assessment in the Jhikhu Khola Catchment, Kavre District, Nepal*. Kathmandu: Kathmandu University and ICIMOD
- Kumar, V.S.; Paul, P.R.; Rao, C.L.V.R.; Haefner, H.; Seidel, K. (1993) 'Snowmelt Runoff Forecasting Studies in Himalayan Basins'. In, Young, G.J. (ed.) *Snow and Glacier Hydrology* pp 85-94. Publ. 218. Wallingford: IAHS
- Kumar, P. (1997) *Project Report on Rainfall-Runoff Modelling of Bandel Catchment Using SCS-Model through GIS*. New Delhi: Central Water Commission
- Laban, P. (1978) *Field Measurements on Erosion and Sedimentation in Nepal*. Paper No. 5. Kathmandu: Department of Soil Conservation and Watershed Management
- Laemmler, M. (2000) *Vergleichende Hydrologische Untersuchungen in drei Kleinst Einzugsgebieten des Fulwasserbaches*. Publikation Gewaesserkunde Nr. 250. Bern: Department of Geography, University of Bern
- Lal, R. (1976) 'Soil Erosion on Alfisols in Western Nigeria. 3. Effects of Rainfall Characteristics'. In, *Geoderma*, Vol. 16: 389-401
- Lal, P.N. (1990) 'The Syndrome of Carrying Capacity of Land in the Himalayas: an Evaluation in the Context of Environmental Degradation'. In, Biswas, S.K. (ed.) *Strategy of Development in the Himalayas: a Profile of Socio-economic Change*. Calcutta: Institute of Social Research and Applied Anthropology
- Lal, M.; Cubasch, U.; Voss, R.; Waszkewitz, J. (1995) 'Effect of Transient Increase in Greenhouse Gases and Sulphate Aerosols on Monsoon Climate'. In, *Current Science*, 69(9):752-763

- Lal, M. (2002) *Possible Impacts of Global Climate Change on Water Availability in India. Report to Global Environment and Energy in the 21st Century*. New Delhi: Indian Institute of Technology
- Lambert, L.; Chitrakar, B.D. (1989) 'Variation of Potential Evapotranspiration with Elevation in Nepal'. In, *Mountain Research and Development* Vol. 9 No. 2:129-144
- Lauterburg, A. (1993) 'The Himalayan Highland-Lowland Interactive System: Do Land Use Changes in the Mountains Affect the Plains?' In, Messerli, B.; Hofer, T.; Wymann, S (eds.) *Himalayan Environment Pressure – Problems – Processes*, pp 21-30. Geographica Bernensia G38. Bern: Institute of Geography, University of Bern
- Lawrence, P.; Meigh, J.; Sullivan, C. (2002) *The Water Poverty Index: An International Comparison*. Keele Economic Research Paper KERP 2002/19. Keele: Department of Economics, University of Keele
- Leibundgut, Ch.; Uhlenbrook S.; McDonnell J. (eds.) (2001) *Runoff Generation and Implications for River Basin Modelling. Band 13 Freiburger Schriften zur Hydrologie*. Freiburg: Institute for Hydrology, University of Freiburg
- Liniger, H.P.; Weingartner, R.; Grosjean, M. (1998) *Mountains of the World: Water Towers for the 21st Century*. Bern: Mountain Agenda
- Linsley, R.K. (1982) 'Rainfall-Runoff Models: An Overview'. In, Singh, V.P. (ed.) *Rainfall-Runoff Relationship*. Littleton: Water Resources Publications
- Lutz, W.; Goujon, A. (2002) *Unpublished Downscaling of Regional Population Projections to Country-Level for the SRES A1, B1 and A2 Scenarios Corresponding to IPCC SRES Report, 1990-2100*. Laxenburg: International Institute for Applied Systems Analysis (IIASA). (Available at <http://sres.ciesin.columbia.edu/tgcia/> and <http://www.iiasa.ac.at/Research/POP/IPCC/index.html>)
- Ma, X.; Duan, S.; Li, J. (2002) *Water Availability Study in a Rural Catchment of the Middle Mountains in China*. Internal report of PARDYP. Baoshan: Baoshan Hydrology Bureau
- MacDonald & Partners (1990) *Design Manuals for Irrigation Projects in Nepal. Planning and Design Strengthening Project*. Kathmandu: His Majesty's Government of Nepal, Ministry of Water Resources
- Maharjan, P.L. (1991) 'The Soil Survey of the Jhikhu Khola Catchment Area'. In, Shah, P.B.; Schreier, H.; Brown, S.J.; Riley, K.W. (eds.) *Soil Fertility and Erosion Issues in the Middle Mountains of Nepal. Proceedings of a Workshop Held in Dhulikhel, April 22-25, 1991*, pp 195-200. Kathmandu and Vancouver: Integrated Survey Section, Topographical Survey Branch and University of British Columbia
- Menzel, L. (1997) 'Modellierung der Evapotranspiration im System Boden-Pflanze-Atmosphäre'. *Zuercher Geographische Schriften*, No. 67. Zuerich: ETH
- Merz, J. (1997) *Hydrological Investigations of a Hillside Affected by Landslides, Lake Tutira, New Zealand*. Publikation Gewässerkunde No. 197. Bern: Department of Geography, University of Bern
- Merz, J. (1998) *Discharge Measurement by Means of Salt Dilution*. Internal Working Paper. Kathmandu: PARDYP
- Merz, J.; Mosley, M.P. (1998): 'Hydrological Behaviour of Pastoral Hill Country Modified by Extensive Landsliding, Northern Hawke's Bay, New Zealand'. In, *Journal of Hydrology (NZ)* 37 (2): 113-139
- Merz, J.; Dongol, B.S.; Weingartner, R. (2000a) 'Impact of Land Use on Generation of High Flows in the Yarsha Khola Catchment, Nepal'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop held in Baoshan, 2-5 March 1999*, pp 185-198. Kathmandu: ICIMOD
- Merz, J.; Dangol, P.M.; Dhakal, M.P. (2000b) 'Comparison of Climatological Balances for the Jhikhu Khola and Yarsha Khola Catchments, Nepal'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop held in Baoshan, 2-5 March 1999*, pp 169-183. Kathmandu: ICIMOD

- Merz, J.; Nakarmi, G. (2001) 'Water Availability in Rural Catchments of the Middle Mountains in Nepal'. In, Watanabe, T.; Sicroff, S.; Khanal, N.R.; Gautam, M.P. (eds.) *Proceedings of the International Symposium on the Himalayan Environments*. Held in Kathmandu, November 2000, pp 202-212. Kathmandu: Tribhuvan University and Hokkaido University
- Merz, J. (2002) *Water & Erosion Studies in PARDYP at the End of Phase 2*. Position Paper. Kathmandu: PARDYP
- Merz, J.; Nakarmi, G.; Shrestha, S.; Shrestha, B.; Shah, P.B.; Weingartner, R. (2002) *Water and Erosion Studies of PARYP Nepal: Water Demand and Supply Survey*. Brochure with CD-ROM. Kathmandu: ICIMOD
- Merz, J. (2003) *International Conference/Workshop on Hydrological Modeling in Mountain Areas*. Concept Note submitted to HKH FRIEND. Kathmandu: ICIMOD
- Merz, J.; Tshering, D.; Dupchu, K.; Baillie, I.C. (2003a) *Analyses of Hydro-Meteorological Data in the Wang Basin*. Consultation on Land Management and Sustainable Water Resources. Thimphu: Bhutan Water Partnership
- Merz, J.; Nakarmi, G.; Shrestha, S.K.; Dahal, B.M.; Dangol, P.M.; Dhakal, M.P.; Dongol, B.S.; Sharma, S.; Shah, P.B.; Weingartner, R. (2003b) 'Water: a Scarce Resource in Rural Catchments of Nepal's Middle Mountains'. In, *Mountain Research and Development*, Vol. 23 No 1: 41-49
- Merz, J.; Nakarmi, G.; Weingartner, R. (2003c) 'Potential Solutions to Water Scarcity in the Rural Catchments of Nepal's Middle Mountains'. In, *Mountain Research and Development*, Vol. 23 No. 1: 14-18
- Merz, J.; Dangol, P.M.; Dhakal, M.P.; Dongol, B.S.; Gao, F.; Jehangir, M.; Joshi, B.K.; Ma, X.; Nakarmi, G.; Prajapati-Merz, B.; Salam, A.; Satyal, G.S.; Shrestha, S.; Verma, P.K.; Weingartner, R.; Zokaib, S. (2003d) *Water Related Key Issues in Meso-scale Catchments of the Hindu Kush-Himalayas*. Paper presented at the Renewable Natural Resources Research for Mountain Communities Symposium and Workshop in Kathmandu, February 24-March 1, 2003
- Merz, J. Dangol, P.M.; Dhakal, M.P.; Dongol, B.S.; Nakarmi, G.; Weingartner, R. (submitted_a) *Impact of Road Construction Works on the Sediment Regime of Micro- to Meso-scale Sub-Catchments*. Submitted to *Earth Surface Processes and Landforms*
- Merz, J.; Nakarmi, G.; Shrestha, S.K.; Dahal, B.M.; Dongol, B.S.; Schaffner, M.; Shakya, S.; Sharma, S.; Weingartner, R. (submitted_b) *Public Water Sources in Rural Catchments of Nepal's Middle Mountains – Issues and Constraints*. Submitted to *Environmental Management*
- Merz, J.; Shrestha, B.; Weingartner, R. (in prep.) *Regional Synthesis of Water and Erosion Activities in PARDYP*. Kathmandu: PARDYP
- Meybeck, M.; Ragu, A. (1995) *River Discharges to the Oceans: an Assessment of Suspended Solids, Major Ions and Nutrients*. Paris: UNEP
- Miah, M.M. (1988) *Flood in Bangladesh: a Hydromorphological Study of the 1987 Flood*. Dhaka: Academic Publishers
- Milliman, J.D.; Syvitski, J.P.M. (1992) Geomorphic/Tectonic Control of Sediment Discharge to the Ocean: the Importance of Small Mountainous Rivers. In, *Journal of Geology*, 100: 525-544
- Ministry of Population and Environment [MOPE] (2002) *Nepal Population Report 2002*. <http://www.mope.gov.np/population/demographic.php> (last visited on January 28, 2003)
- Mirza, M.Q.; Dixit, A. (1997) 'Climate Change and Water Management in the GBM Basins'. In, *Water Nepal*, Vol. 5 No. 1: 71-100
- Mirza, M.Q.; Warrick, R.A.; Ericksen, W.J.; Kenny, G.J. (1998) 'Trends and Persistence in Precipitation in the Ganges, Brahmaputra and Meghna River Basins'. In, *Hydrological Sciences Journal*, Vol. 43 No. 6: 845-858
- Moench, M. (1999) 'Addressing Constraints in Complex Systems: Meeting the Water Management Needs of South Asia in the 21st Century'. In, Moench, M.; Caspari, E.; Dixit, A. (eds.) *Rethinking the Mosaic. Investigations into Local Water Management*, pp 1-56. Kathmandu: Nepal Water Conservation Foundation

- Molden, D. (1997) *Accounting for Water Use and Productivity*. SWIM Paper 1. Colombo: International Irrigation Management Institute
- Molden, D.; Sakthivadivel, R.; Habib, Z. (2001) *Basin-level Use and Productivity of Water: Examples from South Asia*. Research Report No. 49. Colombo: IWMI
- Monteith, J.L. (1975) *Vegetation and the Atmosphere. Vol. 1: Principles*. London: Academic Press
- Mool, P.K.; Bajracharya, S.R.; Joshi, S.P. (2001a) *Inventory of Glaciers, Glacial Lakes and Glacial Lake Outburst Floods – Nepal*. Kathmandu: ICIMOD
- Mool, P.K.; Wangda, D.; Bajracharya, S.R.; Kunzang, K.; Gurung, D.R.; Joshi, S.P. (2001b) *Inventory of Glaciers, Glacial Lakes and Glacial Lake Outburst Floods – Bhutan*. Kathmandu: ICIMOD
- Moore, R.J. (1985) 'The Probability-distributed Principle and Runoff Production at Point and Basin Scale'. In, *Hydrological Sciences Journal*, Vol. 2 No. 6: 273-297
- Moore, I.D.; Turner, A.K.; Wilson, J.P.; Jenson, S.K.; Band, E.B. (1993) 'GIS and Land-Surface-subsurface Process Modelling'. In, *Environmental Modelling with GIS*, pp 196-230. New York: Oxford University Press
- Morris, G.L.; Fan, J. (1998) *Reservoir Sedimentation Handbook: Design and Management of Dams, Reservoirs, and Catchments for Sustainable Use*. New York: Mc Graw-Hill
- Mosley, M.P. (1979) 'Streamflow Generation in a Forested Catchment, New Zealand'. In, *Water Resources Research*, Vol. 15, No. 4: 795-806
- Mosley, M.P. (1981) 'Delimitation of New Zealand Hydrologic Regions'. In, *Journal of Hydrology* 49: 173-192
- Mosley, M.P. (1982) 'Subsurface Flow Velocities through Selected Forest Soils, South Island, New Zealand'. *Journal of Hydrology* 55: 65-92
- Mosley, M.P.; Pearson, C. (1997) 'Introduction: Hydrological Extremes and Climate in New Zealand'. In, Mosley, M.P.; Pearson, C. *Floods and Droughts: the New Zealand Experience*, pp 1-14. Wellington: New Zealand Hydrological Society
- Mountain Risk Engineering Unit (MRE) (2002) *Report on Mapping of Sediment Sources in the Jhikhu Khola Catchment, Central Nepal*. Unpublished Report. Kathmandu: PARDYP
- Mueller-Hohenstein, K. (1981) *Die Landschaftsguertel der Erde*. Stuttgart: B.G. Teubner
- Mulder, R.P. (1978) *Erosion Plot Measurements in Phewa Tal Catchment*. Draft Internal Report NEP/74/020. Kathmandu: Integrated Watershed Management Project, Department of Soil Conservation and FAO
- Multidisciplinary Consultants (1988) *Water Use Inventory Study of Kabhre Palanchok District*. Volume 1: Main Report. Kathmandu: Water and Energy Commission Secretariat
- Naef, F.; Zuidema, P.; Koella, E. (1986) 'Abschaetzung von Hochwassern in kleinen Einzugsgebieten'. In, Spreafico, M. (ed.) *Abschaetzung der Abfluesse in Fliessgewaessern an Stellen ohne Direktmessung. Beitrage zur Geologie der Schweiz – Hydrologie* Nr. 33, pp 195-233. Bern: Schweizerische Geotechnische Kommission and Hydrologische Kommission der Schweizerischen Naturforschenden Gesellschaft
- Nakarmi, G. (1995) 'Indigenous Water Management Systems in the Andheri Khola Sub-catchment'. In, Schreier, H.; Shah, P.B.; Brown, S. (eds.) *Challenges in Mountain Resource Management in Nepal. Processes, Trends, and Dynamics in Middle Mountain Catchments. Proceedings of a Workshop Held in Kathmandu, 10-12 April 1995*, pp 211-225. Kathmandu: ICIMOD
- Nakarmi, G. (2000a) 'Geological Mapping and its Importance for Construction Material, Water Chemistry, and Terrain Stability in the Jhikhu and Yarsha Khola Catchments'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop Held in Baoshan, 2-5 March 1999*, pp 253-261. Kathmandu: ICIMOD
- Nakarmi, G. (2000b) *A Manual for Erosion Test Plot Monitoring*. Internal Working Paper. Kathmandu: PARDYP

- Nakarmi, G.; Neupane, P.R. (2000) 'Construction of a Water Harvesting Tank – Experience from Kubinde, in the Jhikhu Khola Catchment, Nepal'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop Held in Baoshan, 2-5 March 1999*, pp 231-242. Kathmandu: ICIMOD
- Nakarmi, G.; Schreier, H.; Merz, J.; Mathema, P. (2000) 'Erosion Dynamics in the Jhikhu and Yarsha Khola Catchments in Nepal'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop held in Baoshan, 2-5 March 1999*, pp 209-217. Kathmandu: ICIMOD
- Nakarmi, G.; Shah, P.B. (2002) 'Soil Nutrient Losses through Soil Erosion in the Middle Mountains of Nepal'. In, Tripathi, B.P.; Rajbhandari, N.P.; Ransom, J.K. (eds.) *Improved Soil Fertility Management for Sustainable Maize Production. Proceedings of a Working Group Meeting of the Hill Maize Research Project*. Kathmandu: NARC and CIMMYT
- Nakarmi, G. (in prep.) *Lessons Learned from PARDYP – Nepal's Soil Erosion Research*. Internal Report. Kathmandu: PARDYP
- Nakicenovic, N.; Swart R. (eds.) (2000) *Emission Scenarios 2000. Special Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press
- Narayana, D.V.V.; Babu, R. (1983) 'Estimation of Soil Erosion in India'. In, *Journal of Irrigation and Drainage Engineering*, Vol. 109, No. 4: 419-434
- Nash, J.E.; Sutcliffe, J.V. (1970) 'River Flow Forecasting through Conceptual Models. 1. A Discussion of Principles'. In, *Journal of Hydrology* 10: 282-290
- Nayava, J.L. (1980) 'Rainfall in Nepal'. In, *The Himalayan Review*, Vol. 12: 1-18
- Negi, G.C.S.; Joshi, V. (2002) 'Drinking Water Issues and Development of Spring Sanctuaries in a Mountain Catchment in the Indian Himalaya'. In, *Mountain Research and Development*, Vol. 22 No. 1: 29-31
- Nemec, J. (1993) *Comparison and Selection of Existing Hydrological Models for the Simulation of Dynamic Water Balance Processes in Basins of Different Sizes and of Different Scales*. Report No. II-7. Lelystad: International Commission for the Hydrology of the Rhine
- Newcomb, J. (2001) *Gross Environmental Degradation Index Soon to Join GDP, (Canadian Minister) Martin Says*. Press release. <http://csf.colorado.edu/forums/elan/2001/msg00243.html> (last visited on April 21, 2003)
- NIH (1988) *Hydrological Models for Mountainous Areas*. Report TN-33. Roorkee: National Institute of Hydrology
- NIH (1997) *Catchment Modelling in GIS Environment*. Report TR (BR)-8/96-97. Roorkee: National Institute of Hydrology
- NIH (1998) *Hydrological Modelling using GIS*. Report CS(AR)-17/97-98. Roorkee: National Institute of Hydrology
- NPC (2000) *Nepal – National Report on Follow-up to the World Summit for Children*. Kathmandu: His Majesty's Government, National Planning Commission Secretariat
- OECD (2001) *OECD Environmental Outlook*. Paris: Organisation for Economic Cooperation and Development
- Ohlsson, L. (1999) *Environment, Scarcity and Conflict: a Study of Malthusian Concerns*. Goteborg: University of Goteborg
- Pandey, A.N.; Pathak, P.C.; Singh, J.S. (1983/84) 'Water, Sediment and Nutrient Movement in Forested and Non-forested Catchments in Kumaun Himalaya'. In, *Forest Ecology and Management* 7: 19-29
- Papola, T.S. (2002) *Poverty in Mountain Areas of the Hindu Kush-Himalayas*. Talking Points 2/02. Kathmandu: ICIMOD
- PARDYP (1999) *People and Resource Dynamics in Mountain Catchments of the Hindu Kush-Himalayas*. Kathmandu: ICIMOD

- Parida, B.P. (1998) 'Snowmelt Runoff Estimation from a Himalayan Catchment Using Snowmelt Runoff Model (SRM)'. In, Chalise, S.R.; Herrmann, A.; Khanal, N.R.; Lang, H.; Molnar, L.; Pokhrel, A. (eds.) *Ecohydrology of High Mountain Areas. Proceedings of the International Conference of Ecohydrology of High Mountain Areas, Kathmandu, 24-28 March 1996*, pp 381-391. Kathmandu: ICIMOD
- Paudel, G.S.; Thapa, G.B. (2001) Changing Farmers' Land Management Practices in the Hills of Nepal. In, *Environmental Management*, Vol. 28, No. 6: 789-803
- Paudyal, G.N. (1994) 'Mathematical Modeling Tools for Planning and Management of Large-scale Water Resources Development'. In, *Water Nepal*, Vol. 4 No. 1: 164-172
- Pearce, A.J.; Stewart, M.K.; Sklash, M.G. (1986) 'Storm Runoff Generation in Humid Headwater Catchments 1. Where Does the Water Come From?' In, *Water Resources Research* 22 (8): 1263-1272
- Polak, P.; Nanes, B.; Adhikari, D. (1997) 'A Low Cost Drip Irrigation System for Small Farmers in Developing Countries'. In, *Journal of American Water Resources Association*, Vol. 33, No. 1
- Postel, S. (1999) *Pillar of Sand. Can the Irrigation Miracle Last?* New York: W.W. Norton & Company
- Pradhan, R.M. (2000) *Application of Remote Sensing and GIS for Monitoring Land Cover Changes and its Impact on Surface Runoff in Small Catchments*. Unpublished MSc Thesis. Dehradun: Centre for Space Science and Technology Education in Asia and the Pacific, Indian Institute of Remote Sensing
- Prajapati-Merz, B.; Nakarmi, G.; Bhandari, N.P. (2003) 'Drip Irrigation for Cash Crop Production: Results of a Trial in the Jhikhu Khola Catchment, Nepal'. In, Tang, Y.; Tulachan, P.M. (eds.) *Mountain Agriculture in the Hindu Kush-Himalayan Region. Proceedings of an International Symposium Held in Kathmandu, May 21-24, 2001*, pp 135-139. Kathmandu: ICIMOD
- Press, F.; Siever, R. (1986) *Earth*. 4th Edition. New York: W.H. Freeman and Company
- Pudasaini, S.P. (1997) 'Population and Sustainable Development: Carrying Capacity in the Nepali Context'. In, Shivakoti, G.; Varughese, G.; Ostrom, E.; Shukla, A.; Thapa, G. (eds.) *People and Participation in Sustainable Development – Understanding the Dynamics of Natural Resource Systems. Proceedings of the International Conference, 17-21 March 1998, Rampur, Nepal*. Bloomington: Indiana University
- Pujara, D.S.; Khanal, N.R. (2002) 'Use of Pesticides in Jaishidihi Sub-catchment, Jhikhu Khola Catchment, Middle Mountains in Nepal'. In, Herrmann, A.; Schumann, S. (eds.) *International Workshop on Environmental Risk Assessment of Pesticides and Integrated Pesticide Management in Developing Countries*. Heft 38. Braunschweig: Institut fuer Geoökologie, Technische Universität Braunschweig
- Quick, M.C.; Singh, P. (1992) 'Catchment Modelling in the Himalayan Region'. In, *Proceedings of the International Symposium on Hydrology of Mountainous Areas, Shimla 28 – 30 May 1992*, pp 201-230. Roorkee: National Institute of Hydrology. Quick, M.C. (1993) *UBC. Catchment Model Manual*. Version 2.0. Vancouver: Mountain Hydrology Group, University of British Columbia
- Quick, M.C. (1995) 'The UBC Catchment Model'. In, Singh, V.P. (ed.) *Computer Models of Catchment Hydrology*, pp 233-280. Highlands Ranch: Water Resources Publications
- Quinn, P.F.; Beven, K.J.; Chevallier, P.; Planchon, O. (1991) 'The Prediction of Hillslope Paths for Distributed Hydrological Modelling Using Digital Terrain Models'. In, *Hydrological Processes*, Vol. 5: 59-79
- Ramasastri, K.S. (1990) 'Simulation of Daily Runoff in a Mountainous Catchment Using the Tank Model'. In, Lang, H.; Musy, A. (eds.) *Hydrology in Mountainous Regions: 1. Hydrological Measurements; the Water Cycle*, pp 623-626. Publ. No. 193. Wallingford: IAHS
- Ramprasad, B.K.; Kothiyari, B.P.; Pande, R.K. (2000) 'Evaluation of Rainfall Erosivity in Bheta Gad Catchment, Kumaun Hills of Uttar Pradesh, Central Himalayas'. In, *The Environmentalist*, Vol. 20: 301-308

- Refsgaard, J.C.; Seth, S.M.; Bathurst, J.C.; Erlich, M.; Storm, B.; Jorgensen, G.H.; Styczen, M.; Chandra, S. (1992) 'Application of SHE to Catchments in India. Part 1: General Results'. In, *Journal of Hydrology*, Vol. 140: 1-23
- Ries, J.B. (1993) *Bodenerosion in der Hochgebirgsregion des oestlichen Zentral-Himalaya untersucht am Beispiel Bamti/Bhandar/Surma, Nepal*. Unpublished PhD thesis. Freiburg i. Br. Albert-Ludwigs-Universitaet
- Ries, J.B. (1994) 'Bodenerosion in der Hochgebirgsregion des oestlichen Zentral-Himalaya untersucht am Beispiel Bamti/Bhandar/Surma, Nepal'. *Freiburger Geographische Hefte*, No. 42. Freiburg: Albert-Ludwigs-Universitaet
- Rodda, J.C. (1994) 'Mountains – a Hydrological Paradox or Paradise?' In, *Beitraege zur Hydrologie der Schweiz*, No. 35: 41-51
- Rodda, J.C. (2001) 'Water Under Pressure'. In, *Hydrological Sciences Journal*, Vol. 46 No. 6: 841-853
- Ross, B.B.; Contractor, D.N.; Shanholtz, V.O. (1979) 'A Finite Element Model of Overland and Channel Flow for Assessing the Hydrological Impact of Land Use Change'. In, *Journal of Hydrology*, Vol. 41: 1-30
- Ross, J.; Gilbert, R. (1999) 'Lacustrine Sedimentation in a Monsoon Environment: the Record from Phewa Tal, Middle Mountain Region of Nepal'. In, *Geomorphology*, Vol. 27: 307-323
- RWSSSP (1994) *Palpa District – Water Supply and Sanitation Development Plan*. Kathmandu: Department of Water Supply and Sewerage, HMG/Ministry of Housing and Physical Planning (Draft)
- Sachs, L. (1997) *Angewandte Statistik*. 8th Edition. Berlin: Springer Verlag
- Saijo, K. (1991) 'Hillslope Evolution in Geological Time Scale and its Significance on Active Erosion Processes in the Jhikhu Khola Catchment'. In, Shah, P.B.; Schreier, H.; Brown, S.J.; Riley, K.W. (eds.) *Soil Fertility and Erosion Issues in the Middle Mountains of Nepal. Proceedings of a Workshop held in Dhulikhel, April 22-25, 1991*, pp 188-194. Kathmandu and Vancouver: Integrated Survey Section, Topographical Survey Branch and University of British Columbia
- Salameh, E. (2000) 'Redefining the Water Poverty Index'. In, *Water International*, Vol. 25, No. 3: 469-473
- Salas, J.D. (1992) 'Analysis and Modelling of Hydrologic Time Series'. In, Maidment, D.R. (ed.) *Handbook of Hydrology*. New York: McGraw-Hill Inc.
- Saxton, K.E.; Rawls, W.J.; Romberger, J.S.; Papendick, R.I. (1986) 'Estimating Generalized Soil-water Characteristics from Texture'. *Soil Sci. Soc. Amer. J.* 50(4): 1031-1036
- Schaedler B. (1990) 'Abfluss'. In, *Fachtagung Schnee, Eis und Wasser der Alpen in einer waermeren Atmosphaere*. Mitteilungen Nr.108: 109-125. Zuerich: Versuchsanstalt fuer Wasserbau, Hydrologie und Glaziologie, ETH
- Schaffner, M. (2003) *Drinking Water Quality Assessment and Improvement in the Jhikhu Khola Catchment, Nepal*. Publikation Gewaesserkunde No. 281. Bern: Department of Geography, University of Bern
- Scherr, S.J.; Yadav, S. (1996) 'Land Degradation in the Developing World: Implications for Food, Agriculture, and the Environment to 2020'. *Food, Agriculture and the Environment Discussion Paper 14*. Washington: International Food Policy Research Institute
- Scherr, S.J. (1999) 'Soil Degradation – a Threat to Developing-country Food Security by 2020?' *Food, Agriculture, and the Environment Discussion Paper 27*. Washington: International Food Policy Research Institute
- Scherrer, S. (1997) 'Abflussbildung bei Starkniederschlaegen. Identifikation von Abflussprozessen mittels kuenstlicher Niederschlaege'. *VAW Mitteilungen 147*. Zuerich: Versuchsanstalt fuer Wasserbau, Hydrologie und Glaziologie, ETH
- Schreier, H.; Brown, S.; Shah, P.B. (1995) 'Identification of Key Resource Issues: Discussion and Recommendations'. In, Schreier, H.; Shah, P.B.; Brown, S. (eds.) *Challenges in Mountain*

Resource Management in Nepal. Processes, Trends, and Dynamics in Middle Mountain Catchments. Proceedings of a Workshop Held in Kathmandu, 10-12 April 1995, pp 247-252. Kathmandu: ICIMOD

- Schreier, H.; Shah, P.B.; Lavkulich, L.M. (1995) 'Soil Acidification and its Impact on Nutrient Deficiency; with Emphasis on Red Soils and Pine Litter Additions'. In, Schreier, H.; Shah, P.B.; Brown, S. (eds.) *Challenges in Mountain Resource Management in Nepal. Processes, Trends, and Dynamics in Middle Mountain Catchments. Proceedings of a Workshop Held in Kathmandu, 10-12 April 1995*, pp 183-192. Kathmandu: ICIMOD
- Schreier, H.; Wymann von Dach, S. (1996) 'Understanding Himalayan Processes: Shedding Light on the Dilemma'. In, Hurni, H.; Kienholz, H.; Wanner, H.; Wiesmann, U. (eds.) *Umwelt, Mensch, Gebirge – Beitrage zur Dynamik von Natur- und Lebensraum. Festschrift fuer Bruno Messerli*. Bern: Geographische Gesellschaft Bern
- Schreier, H.; Shah, P.B. (1996) 'Water Dynamics and Population Pressure in the Nepalese Himalayas'. In, *GeoJournal*, 40.1-2: 45-51
- Schreier, H.; Hall, K.; Tamagi, W.; Brown, S. (1997) *Integrated Watershed Management*. CD-ROM, Institute for Resources and Environment, University of British Columbia, Vancouver
- Schreier, H.; Shah, P.B. (2000) 'Soil Fertility Status and Dynamics in the Jhikhu and Yarsha Khola Catchments'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop Held in Baoshan, 2-5 March 1999*, pp 281-289. Kathmandu: ICIMOD
- Schreier, H.; Brown, S.; Bestbier, R.; Quiroz, R. (2002) *Himalayan Andean Catchment Comparison*. CD-ROM. Vancouver: Institute for Resources and Environment, University of British Columbia
- Schulla, J. (1997) 'Hydrologische Modellierung von Flussgebieten zur Abschaetzung der Folgen von Klimaänderungen'. *Zuercher Geographische Schriften*, No. 69. Zuerich: ETH
- Schulla, J.; Jasper, K. (1999) *Model Description WaSiM-ETH*. Zuerich: Institute of Geography, ETH Zuerich
- Schultz, G.A. (2000) Potential of Modern Data Types for Future Water Resources Management. In, *Water International*, Vol. 25 No. 1: 96-109
- Schumann, S.; Stichler, W.; Prajapati, S.B. (2002) 'Underground Water Passages and Runoff Formation Pattern in an Irrigated Khet Catchment'. In, Herrmann, A.; Schumann, S. (eds.) *International Workshop on Environmental Risk Assessment of Pesticides and Integrated Pesticide Management in Developing Countries*, pp 190-204. Heft 38. Braunschweig: Institut fuer Geoökologie, Technische Universitaet Braunschweig
- Schweinfurth, U. (1957) 'Die Horizontale und Vertikale Verbreitung der Vegetation im Himalaya'. In, *Bonner Geographische Abhandlungen*, Vol. 20 No. 12: 1-375
- Seckler, D.; Amarasinghe, U.; Molden, D.; deSilva, R.; Barker, R. (1998) *World Water Demand and Supply, 1990 to 2025: Scenarios and Issues*. Research Report 19. Colombo: IWMI
- Seidel, K.; Martinec, J.; Baumgartner, M.F. (2000) Modelling Runoff and Impact on Climate Change in Large Himalayan Basins. In, Mehrotra, R.; Soni, B.; Bhatia, K.K.S. (eds.) *Integrated Water Resources Management for Sustainable Development*, pp 1020-1028. Roorkee: National Institute of Hydrology
- Sevruk, B. (ed.) (1986) 'Correction of Precipitation Measurements'. *Zuercher Geographische Schriften*, Heft 23. Zuerich: ETH
- Shah, P.B.; Schreier, H. (1991) 'An Overview of the Jhikhu Khola Catchment Project'. In, Shah, P.B.; Schreier, H.; Brown, S.J. (eds.) *Soil Fertility and Erosion Issues in Middle Mountains of Nepal: Proceedings of a Workshop Held on 22-25 April 1991 at Dhulikhel, Nepal*. Kathmandu: Topographical Survey Branch, Integrated Survey Section
- Shah, P.B. (1995) 'Indigenous Agricultural Land and Soil Classifications'. In, Schreier, H.; Shah, P.B.; Brown, S. (eds.) *Challenges in Mountain Resource Management in Nepal. Processes, Trends, and*

Dynamics in Middle Mountain Catchments. Proceedings of a Workshop Held in Kathmandu, 10-12 April 1995, pp 203-210. Kathmandu: ICIMOD

- Shah, P.B.; Schreier, H. (1995) 'Introduction to the Catchment Project: Issues and Overview'. In, Schreier, H.; Shah, P.B.; Brown, S. (eds.) *Challenges in Mountain Resource Management in Nepal. Processes, Trends, and Dynamics in Middle Mountain Catchments. Proceedings of a Workshop Held in Kathmandu, 10-12 April 1995*, pp 122 -128. Kathmandu: ICIMOD
- Shah, P.B.; Schreier, H.; Nakarmi, G. (2000) 'Rehabilitation of Degraded Lands'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop Held in Baoshan, 2-5 March 1999*, pp 139-148. Kathmandu: ICIMOD
- Shah, S.G.; Singh, G.N. (2001) *Irrigation Development in Nepal: Investment, Efficiency and Institution*. Research Report No. 47. Kathmandu: Winrock International
- Shah, S.M.S.; Khan, A.A.; Khan, M.T.; Ifrikar, A. (1998) 'Present Status and Problems of the Hydrology of Mountainous Areas in Pakistan'. In, Chalise, S.R.; Herrmann, A.; Khanal, N.R.; Lang, H.; Molnar, L.; Pokhrel, A. (eds.) *Ecohydrology of High Mountain Areas. Proceedings of the International Conference of Ecohydrology of High Mountain Areas, Kathmandu, 24-28 March 1996*, pp 89-101. Kathmandu: ICIMOD
- Shakya, B. (2001) *Estimation of Main Hydrological Characteristics for Mountain Rivers of Nepal*. Extended PhD Abstract. Tashkent: Central Asian Hydrometeorological Research Institute
- Shakya, N.M. (1997) Impact of Forest Clearing on Hydrology: Mathematical Modelling of Khageeri River. In, *Water Nepal*, Vol. 5 No. 2: 107-124
- Sharma, C.K. (1977) *River Systems of Nepal*. Kathmandu: Sangeeta Sharma
- Sharma, C.K. (1988) *Natural Hazards and Man Made Impacts in the Nepal Himalaya*. Kathmandu: Pushpa Sharma
- Sharma, E.; Sundriyal, R.C.; Rai, S.C.; Krishna, A.P. (1998) 'Catchment: a Functional Unit of Management for Sustainable Development'. In, Ambasht, R.S. (ed.) *Modern Trends in Ecology and Environment*, pp 171-18. Leiden: Backhuys Publishers
- Sharma, K.P. (1997) *Impact of Land Use and Climatic Changes on Hydrology of the Himalayan Basin: a Case Study of the Kosi Basin*. Unpublished PhD thesis. New Hampshire: Institute for the Study of Earth, Oceans and Space
- Sharma, P. (1994) 'Population and Employment Challenges in the Mountains'. In, *Proceedings of the International Symposium on Mountain Environment and Development: Constraints and Opportunities*. Kathmandu: ICIMOD
- Shen, H.W.; Julien, P.Y. (1998) 'Erosion and Sediment Transport'. In, Maidment, D.R. (ed.) *Handbook of Hydrology*. New York: Mc Graw-Hill, Inc.
- Shiklamonov, I.A. (2000) 'Appraisal and Assessment of World Water Resources'. In, *Water International*, Vol. 25, No.1: 11-32
- Shrestha, A.B.; Wake, C.P.; Dib, J.E.; Mayewski, P.A. (2000) 'Precipitation Fluctuations in the Nepal Himalaya and its Vicinity and Relationship with Some Large Scale Climatological Parameters'. In, *International Journal of Climatology*, Vol. 20: 317-327
- Shrestha, B.; Brown, S. (1995) 'Land Use Dynamics and Intensification'. In, Schreier, H.; Shah, P.B.; Brown, S. (eds.) *Challenges in Mountain Resource Management in Nepal. Processes, Trends, and Dynamics in Middle Mountain Catchments. Proceedings of a Workshop Held in Kathmandu, 10-12 April 1995*, pp 141-154. Kathmandu: ICIMOD
- Shrestha, B. (2000a) 'Population Dynamics and Land Use in the Yarsha Khola Catchment'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop Held in Baoshan, 2-5 March 1999*, pp 75-84. Kathmandu: ICIMOD
- Shrestha, B. (2000b) 'Milk Production Dynamics and the Animal Feed Situation in the Jhikhu Khola Catchment'. In, Allen, R.; Schreier, H.; Brown, S.; Shah, P.B. (eds.) *The People and Resource*

- Dynamics Project. The First Three Years (1996-1999). Proceedings of a Workshop Held in Baoshan, 2-5 March 1999*, pp 85-100. Kathmandu: ICIMOD
- Shrestha, B.; Pradhan, S. (2000) *Kathmandu Valley GIS Database – Bridging the Data Gap*. Kathmandu: ICIMOD
- Shrestha, B.; Sharma, S. (2000) *Assessment of Nutrient Loss in Bariland of Jhikhu Khola Catchment by Water Quality Assessment Method*. Unpublished BSc thesis. Dhulikhel: Kathmandu University
- Shrestha, B.; Tuladhar, B.R. (2002) 'Geomatics in Participatory Community-based Forest Resources Inventory in the Middle Mountains of Nepal'. In, *The Proceedings of the 23rd Asian Conference on Remote Sensing, Kathmandu, 25-29 November 2002*. Kathmandu: Survey Department and Asian Association on Remote Sensing
- Shrestha, P.L.; Neupane, F.N. (2002) 'Socio-economic Contexts on Pesticide Use in Nepal'. In, Herrmann, A.; Schumann, S. (eds.) *International Workshop on Environmental Risk Assessment of Pesticides and Integrated Pesticide Management in Developing Countries*, pp 205-223. Heft 38. Braunschweig: Institut fuer Geoökologie, Technische Universität Braunschweig
- Shrestha, S.K. (1999) *Influence of Rock and Soil Materials on Storage Capacity of Eastern Part of Jhikhu Khola Catchment*. Unpublished MSc Thesis. Kathmandu: Central Department of Geology, Tribhuvan University
- Shrestha, S.; Nakarmi, G.; Merz, J.; Osti, R.C. (2000) *Survey of Public Water Sources in the Jhikhu Khola Catchment*. Unpublished Report. Kathmandu: Capacity Building for Community Water Quality Assessment Project
- Shrestha, S.; Nakarmi, G.; Merz, J.; Tripathi, G.; Lamichhane, R. (2001) *Survey of Public Water Sources in the Yarsha Khola Catchment*. Unpublished Report. Kathmandu: People and Resource Dynamics of Mountain Catchments in the Hindu Kush-Himalayas Project
- Shuttleworth, W.J. (1993) 'Evaporation'. In, Maidment, D.R. (ed.) *Handbook of Hydrology*. New York: McGraw-Hill Inc.
- Sial, S.A. (2003) 'Too Little Water: a Case Study on Drought in Pakistan'. In, Merz, J. (ed.) *Water and Mountains – International Year of Freshwater*. Newsletter No. 42. Kathmandu: ICIMOD
- Singh, A.K.; Pandey, R.K. (1989) 'Changes in Spring Activity: Experiences of Kumaon Himalaya'. In, *The Environmentalist*, Vol. 9 No. 1: 25-29
- Singh, B.K. (1999) *Soil Erosion Studies 1998 in Jhikhu and Yarsha Khola Catchments of Nepal – a PARDYP Yearbook*. Kathmandu: PARDYP/Department of Soil Conservation and Watershed Management
- Singh, B.K. (2000) *Soil Erosion Studies 1999 in Jhikhu and Yarsha Khola Catchments of Nepal – a PARDYP Yearbook*. Kathmandu: PARDYP/Department of Soil Conservation and Watershed Management
- Singh, B.K. (2001) *Soil Erosion Studies 2000 in Jhikhu and Yarsha Khola Catchments of Nepal – a PARDYP Yearbook*. Kathmandu: PARDYP/Department of Soil Conservation and Watershed Management
- Singh, B.K. (2002) *Soil Erosion Studies 2001 in Jhikhu and Yarsha Khola Catchments of Nepal – a PARDYP Yearbook*. Kathmandu: PARDYP/Department of Soil Conservation and Watershed Management
- Singh, P. (1998) 'Effect of Global Warming on the Streamflow of a High-altitude Spiti River'. In, Chalise, S.R.; Herrmann, A.; Khanal, N.R.; Lang, H.; Molnar, L.; Pokhrel, A. (eds.) *Ecohydrology of High Mountain Areas. Proceedings of the International Conference of Ecohydrology of High Mountain Areas, Kathmandu, 24-28 March 1996*, pp 103-114. Kathmandu: ICIMOD
- Singh, P.; Kumar, N. (1997) 'Impact Assessment of Climate Change on the Hydrological Response of a Snow and Glacier Melt Runoff Dominated Himalayan River'. In, *Journal of Hydrology*, Vol. 193: 316-350

- Singh, P.; Quick, M.C. (1993) 'Streamflow Simulation of Satluj River in the Western Himalayas'. In, Young, G.J. (ed.) *Snow and Glacier Hydrology*, pp 261-271. Publ. 218. Wallingford: IAHS
- Smedley, P.L.; Kinniburgh, D.G. (2002) 'A Review of the Source, Behaviour and Distribution of Arsenic in Natural Waters'. In, *Applied Geochemistry* 17: 517-568
- Sorooshian, S.; Gupta, V.K. (1995) 'Model Calibration'. In, Singh, V.P. (ed.) *Computer Models of Catchment Hydrology*, pp 23-68. Highlands Ranch: Water Resources Publications
- Spreadico, M.; Gees, A. (1991) *Determination of Discharge in Open Channels Using the LHG Dilution Method*. Bern: Swiss National Hydrological and Geological Survey
- SPSS (1999) *Online Help to SPSS for Windows 10.0.1*. SPSS Inc.
- StatSoft, Inc. (1999) *Electronic Statistics Textbook*. Tulsa, OK: StatSoft. <http://www.statsoft.com/textbook/stathome.html>. (last visited on December 05, 2002)
- Sthapit, K.M.; Upadhyaya, G.P.; Joshi, J. (1995) 'Sedimentation Survey of Kulekhani Reservoir October 1994'. In, *Proceedings of ISWID-95, March 20-24, 1995*, pp 78-96. Kathmandu: Water Induced Disaster Prevention Technical Centre
- Subba, B. (2001) *Himalayan Waters*. Kathmandu: Panos Institute
- Subramanya, K. (1994) *Engineering Hydrology*. 2nd Edition. New Delhi: Tata McGraw-Hill Publishing Company Ltd.
- Sugawara, M. (1961) 'On the Analysis of Runoff Structure about Several Japanese Rivers'. In, *Japanese Journal of Geophysics*, Vol. 2 No. 4: 1-76
- Sugawara, M. (1995) 'Tank Model'. In, Singh, V.P. (ed.) *Computer Models of Catchment Hydrology*, pp 165-214. Highlands Ranch: Water Resources Publications
- Sullivan, C. (2002) *Calculating a Water Poverty Index*. In, *World Development*, Vol. 30 No. 7: 1195 - 1210
- Tahal Consulting Engineers (2002) *Technical Report No.4: Meteorological Study*. Nepal Irrigation Sector Project. Kathmandu: Department of Hydrology and Meteorology, Ministry of Science and Technology
- Tashi, N.; Rotmans, A. (2003) *Ecoregional Approaches to Mountain Agriculture. Tools for Planning and Development*. Partnership Platforms 1/03. Kathmandu: ICIMOD
- Teuling, A.J. (2001) *A Survey of Farmer Managed Irrigation Systems in the Jhikhu Khola Catchment, Nepal. An Application of GPS in the Assessment of Water Availability*. Unpublished Report. Kathmandu: PARDYP
- Thapa, G.B.; Paudel, G.S. (2000) 'Evaluation of the Livestock Carrying Capacity of Land Resources in the Hills of Nepal Based on Total Digestive Nutrient Analysis'. In, *Agriculture, Ecosystems and Environment*, 78: 223-235.
- Thapa, G.B.; Weber, K.E. (1995) 'Natural Resource Degradation in a Small Catchment in Nepal. Complex Causes and Remedial Measures'. In, *Natural Resources Forum*, Vol. 19, No. 4: 285-296
- Thapa, K.B.; Khanal, N.R. (2002) *Flood Hazard In Nepal & Need For Flood Forecasting in HKH Region*. www.southasianfloods.org (last visited on June 22, 2002)
- Thornthwaite, C.W.; Mather, J.R. (1955) 'The Water Balance'. In, *Publication of Climatology*, Vol. 8 No. 1: 1-86
- Thulachan, P.M. (2000) 'Mountain Agriculture in the Hindu Kush-Himalayas: Trends and Sustainability'. In, Banskota, M.; Papola, T.S.; Richter, J. (eds.) (2000) *Growth, Poverty Alleviation and Sustainable Resource Management in the Mountain Areas of South Asia*. Feldafing: German Foundation for International Development
- Thulachan, P.M. (2001) *State of Mountain Agriculture in the Hindu Kush-Himalayas: a Regional Comparative Analysis*. Kathmandu: ICIMOD
- Thulachan, P.M.; Neupane, A. (1999) *Livestock in Mixed Farming Systems of the Hindu Kush-Himalayas. Trends and Sustainability*. Kathmandu: ICIMOD

- Tripathi, G.N.; Merz, J.; Schaffner, M. (2002) *Public Health Organisations Survey with Emphasis on Water Borne Diseases in the Jhikhu Khola Catchment, Kavrepalanchowk District, Nepal*. Unpublished report. Kathmandu: PARDYP
- Tschanz, B. (2002) *Geomorphologische Untersuchungen im Einzugsgebiet des Yarsha Khola*. Unpublished MSc Thesis. Bern: Department of Geography, University of Bern
- Tschanz, B.; Vuillemin, D.; Droz, M.; Jaggi, M. (1999) *Hydrological and Degradation Investigations*. Final Report of the Excursion of the University of Bern, 6-21 November 1997. Publikation Gewaesserkunde No. 217. Bern: Department of Geography, University of Bern
- Turc, L. (1961) 'Évaluation des Besoins en Eau Irrigation, L'évapotranspiration Potentielle'. In, *Annales Agronomique*, Vol. 12: 13-49
- Uhlenbrook S. (1999): *Untersuchung und Modellierung der Abflußbildung in einem mesoskaligen Einzugsgebiet*. Band 10 Freiburger Schriften zur Hydrologie. Freiburg: Institute for Hydrology, University of Freiburg
- Uhlenbrook, S.; Leibundgut, C. (2002) 'Process Oriented Catchment Modelling and Multiple Response Validation'. In, *Hydrological Processes* 16: 423-440
- UNDP (2001) *Human Development Report 2001 – Making New Technologies Work for Human Development*. New York: UNDP and Oxford University Press
- UNEP (2001) *Nepal: State of the Environment 2001*. Bangkok: United Nations Environment Programme
- UNESCO-WWAP (2003) *Water for People, Water for Life – UN World Water Development Report*. Paris: UNESCO Publishing and Berghan Books
- UNFPA (2001) *The State of World Population 2001 – Footprints and Milestones: Population and Environmental Change*. New York: United Nations Population Fund.
- Upadhyay, K. (2001) *Performance of Local Irrigation Institutions in Changing Catchment Conditions: a Study of Jhikhu Khola Catchment, Nepal*. Unpublished MSc Thesis. Bangkok: Asian Institute of Technology
- Valdiya, K.S. (1998) *Dynamic Himalaya*. Hyderabad: Universities Press
- Verma, P.K.; Joshi, B.K.; Rawat, T.S.; Kothiyari, B.B.; Pande, H.K.; Rautela, N.S.; Kothiyari, B.P. (in prep.) 'Bhetagad Catchment, PARDYP India'. In, Merz, J.; Shrestha, B.; Weingartner, R. (eds). *Regional Synthesis of Water and Erosion Activities in PARDYP*. Kathmandu: PARDYP
- Vitvar, T.; Gurtz, J.; Lang, H. (1999) 'Application of GIS-based Distributed Hydrological Modelling for Estimation of Water Residence Times in the Small Swiss Pre-alpine Catchment Rietholzbach'. In, Leibundgut, C.; McDonnell, J.; Schultz, G. (eds.) *Integrated Methods in Catchment Hydrology- Tracer, Remote Sensing and New Hydrometric Techniques*, pp 241-248. Publication No. 258. Wallingford: IAHS
- Viviroli, D. (2001) *Zur Hydrologischen Bedeutung der Gebirge*. Publikation Gewaesserkunde No. 265. Bern: Department of Geography, University of Bern
- Viviroli, D.; Weingartner, R. (2002) 'The Significance of Mountains as Sources of the World's Fresh Water'. In, *GAIA*, Vol. 11, No. 3: 182-186
- Voegeli, Y. (2002) *Relationship between Rainfall, Runoff and Sediment Dynamics. Investigations on a Bari Field in a Sub-catchment of the Jhikhu Khola Catchment, Nepal*. Publikation Gewaesserkunde No. 270. Bern: Department of Geography, University of Bern
- Voeikow Main Geophysical Observatory (1981) *Climatic Atlas of Asia, Vol. 1, Maps of Mean Temperature and Precipitation*. Leningrad: WMO and UNESCO
- Von Westarp, S. (2002) *Agricultural Intensification, Soil Fertility Dynamics, and Low-cost Drip Irrigation in the Middle Mountains of Nepal*. Unpublished MSc Thesis. Vancouver: Department of Soil Science, Faculty of Agricultural Sciences, University of British Columbia
- WECS (1990) *Methodologies for Estimating Hydrologic Characteristics of Ungauged Locations in Nepal*. Volume 1, Main Report. Kathmandu: WECS and HMG Ministry of Water Resources

- WECS (1999) *Sediment Transport in Nepal Himalayan Rivers*. Documentation for short course in June 1999. Kathmandu: WECS, HMG Ministry of Water Resources
- WEF (2002) *2002 Environmental Sustainability Index*. New Haven: Yale Centre for Environmental Law and Policy
- Weingartner, R. (1999) *Regionalhydrologische Analysen. Grundlagen und Anwendungen*. Beitrage zur Hydrologie der Schweiz No. 37. Bern: Schweizerische Gesellschaft fuer Hydrologie und Limnologie
- Wendling, U. (1975) Zur Messung und Schaetzung der Potentiellen Verdunstung'. *Zeitschrift fuer Meteorologie*, Vol. 25: 103-111
- Whetton, P.; Pittock, A.B.; Suppiah, R. (1994) 'Implications of Climate Change for Water Resources in South and Southeast Asia'. In, *Climate Change in Asia: Thematic Overview*, pp 57-103. Manila: ADB
- Whittow, J. (1984) *Dictionary of Physical Geography*. London: Penguin Books
- WHO (1997) *Guidelines for Drinking Water Quality*. Volume 1: Recommendations, 2nd Edition. Geneva: World Health Organisation
- WHO (2002) *The World Health Report 2002*. Geneva: World Health Organization
- Wilhelm, F. (1993) *Hydrogeographie*. 2nd Edition. Braunschweig: Westermann Schulbuchverlag GmbH
- Winograd, M.; Aguilar, M.; Farrow, A.; Segnestam, L.; Linddal, M.; Dixon, J. (1999) *Conceptual Framework to Develop and Use Water Indicators*. Technical Note. CIAT/World Bank/UNEP Project Rural Sustainability Indicators: Outlook for Central America. Cali: CIAT
- Wischmeier, W.H.; Smith, D.D. (1978) *Predicting Rainfall Erosion Losses*. Agriculture Handbook 537. Washington: U.S. Department of Agriculture
- WMO (1975) *Intercomparison of Conceptual Models Used in Operational Hydrological Forecasting*. Operational Hydrology Report No. 7. Geneva: World Meteorological Organization
- WMO (1986) *Manual for Estimation of Probable Maximum Precipitation*. Operational Hydrology Report No. 1. 2nd edition. Geneva: World Meteorological Organization
- WMO (1990) *Hydrological Models for Water-resources System Design and Operation*. Operational Hydrology Report No. 34. Geneva: WMO
- WMO (1992) *Simulated Real-time Intercomparison of Hydrological Models*. Operational Hydrology Report No. 38. Geneva: World Meteorological Organization
- WMO (1994) *Guide to Hydrological Practices*. 5th edition. WMO-No. 168. Geneva: WMO
- World Water Forum (2000) *Declaration of The Hague*. <http://www.worldwaterforum.org/Ministerial/declaration.html> (last visited May 28, 2002)
- World Bank (1998) *World Development Indicators 1998: Freshwater* (Table 3.5). http://www.worldbank.org/data/pdfs/tab3_5.pdf (last visited on June 23, 2002)
- WSSCC (1999) *Water for People*. Geneva: Water Supply and Sanitation Collaborative Council
- WSSCC (2000) *Global Water Supply and Sanitation Assessment 2000 Report*. Geneva: Water Supply and Sanitation Collaborative Council
- Wuethrich, P. (1999) *Hochwasserverhaeltnisse in einem Wildbach – Zur Hydrologie des Fulwasserbachs im Testgebiet Leissigen (Berner Oberland)*. Publikation Gewaesserkunde No. 227. Bern: Department of Geography, University of Bern
- WWC/CEH (2003) *New Water Poverty Index Defines World Water Crisis Country by Country - Haiti Worst, Finland Best*. Press Release. Paris and Wallingford: World Water Council and Centre for Ecology & Hydrology
- WWF (2002) *Living Planet Report 2002*. Gland: WWF

- Wyss, M. (1993) 'Approach to a Regionalisation of the Hindu Kush-Himalayan Mountains'. In, Messerli, B.; Hofer, T.; Wymann, S (eds.) *Himalayan Environment Pressure – Problems – Processes*, pp 9-20. Geographica Bernensia G38. Bern: Institute of Geography, University of Bern
- Xu, J.; Salas, M. (2002) 'Biodiversity and Culture in Development and Globalisation: Country Review for Mountain Uplands of Hunan, Southwest China'. In, *Proceedings of the MMSEA-3 Conference held in Lijiang, August 25-29, 2002*. Kunming: KIB/CBIK/Yunnan Academy of Social Science
- Yoffe, S.B.; Ward, B.S. (1999) 'Water Resources and Indicators of Conflict: a Proposed Spatial Analysis'. In, *Water International*, Vol. 24, No. 4: 377-384
- Zandbergen, P. (1998) *Urban Catchment Assessment: Linking Catchment Health Indicators to Management*. Vancouver: University of British Columbia
- Zappa, M. (1999) *Untersuchungen zur Aufbereitung Unterschiedlicher Rauminformationen fuer die Flaechendifferenzierte Hydrologische Einzugsgebietsmodellierung*. Unpublished MSc Thesis. Zuerich: Institute for Geography, ETH Zuerich
- Zappa, M. (2002) *Multiple Response Verification of a Distributed Hydrological Model at Different Spatial Scales*. Diss. ETH No. No. 14895. Zuerich: Swiss Federal Institute of Technology (ETH)
- Zhao, R.J.; Liu, X.R. (1995) 'The Xinanjiang Model'. In, Singh, V.P. *Computer Models of Catchment Hydrology*. Highlands Ranch: Water Resources Publications
- Ziegler, A.D.; Giambelluca, T.W. (1997) Importance of Rural Roads as Source Area for Runoff in Mountainous Areas of Northern Thailand. In, *Journal of Hydrology* Vol. 196: 204-229
- Zonneveld, J. M.; Nield, R.; Amatya, D.B. (1986) *Land Resource Mapping Project: Land Utilization Report*. Kathmandu: Land Resources Mapping Project
- Zurick, D.; Karan, P.P. (1999) *Himalaya: Life on the Edge of the World*. Baltimore: Johns Hopkins University Press

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- Herrmann, A., Project Coordinator, Integrated Pest Management Project, Technical University Braunschweig, in July 2002
- PARDYP India in June 2003
- PARDYP Pakistan in June 2003
- Prajapati-Merz, B. On-farm Coordinator PARDYP Nepal on March 3, 2003
- Shah, P.B., Regional Assistant Coordinator PARDYP Nepal on September 25, 2002
- Shrestha, B., Country Coordinator PARDYP Nepal in May 2003