

# Bibliography

(Not necessarily cited in the text)

- Alford, D. (1992) *Hydrological Aspects of the Himalayan Region*. Kathmandu: ICIMOD
- Archer, D.R.; Fowler, H.J. (2004) 'Spatial and Temporal Variations in Precipitation in the Upper Indus Basin, Global Teleconnections and Hydrological Implications'. In *Hydrology and Earth System Science*, 8(1): 47-61
- Baker, B.B.; Moseley, R.K. (2007) Advancing Treeline and Retreating Glaciers: Implications for Conservation in Yunnan, P.R. China. In *Arctic, Antarctic and Alpine Research*, 39 (2): 200-209
- Bala, G.; Caldeira, K.; Wickett, M.; Phillips, T.J.; Lobell, D.B.; Delire, C.; Mirin, A. (2007) 'Combined Climate and Carbon-cycle Effects of Large-scale Deforestation'. In *PNAS*, 104(16): 6550-6555
- Ballantyne, C.K.; Benn, D.I. (1994) 'Paraglacial Slope Adjustment and Resedimentation Following Recent Glacier Retreat, Fabergstolsdalen, Norway.' In *Arctic and Alpine Research*, 26(3): 255-269
- Bandyopadhyay, J.; Gyawali, D. (1994) Himalayan Water Resources: Ecological and Political Aspects of Management. In *Mountain Research and Development*, 14(1): 1-24
- Barnett, T.P.; Adam, J.C.; Lettenmaier, D.P. (2005) 'Potential Impacts of a Warming Climate on Water Availability in a Snow-dominated Region'. In *Nature*, 438(17): 303-309
- Beniston, M. (2003) 'Climatic Change in Mountain Regions: A Review of Possible Impacts'. In *Climatic Change*, 59: 5-31
- Bolch, T. (2006) 'Climate Change and Glacier Retreat in Northern Tien Shan (Kazakhstan/Kyrgyzstan) Using Remote-sensing Data'. In *Global and Planetary Change*, 56: 1-12
- Chalise, S.R.; Khanal, N.R. (2001) 'An Introduction to Climate, Hydrology and Landslide Hazards in the Hindu Kush-Himalayan Region'. In Tianchi, L.; Chalise, S.R.; Upreti, B.N. (eds) *Landslide Hazard Mitigation in the Hindu Kush-Himalayas*, pp 51-62. Kathmandu: ICIMOD
- CNCCC (2007) *China National Report on Climate Change 2007* (in Chinese). Beijing: China National Committee on Climate Change
- Campbell, B.D.; Stafford Smith, B.D. (2000) 'A Synthesis of Recent Global Change Research on Pasture and Rangeland Production: Reduced Uncertainties and Their Management Implications.' In *Agriculture, Ecosystems and Environment*, 82: 39-55
- Dadson, S.J.; Church, M. (2005) 'Postglacial Topographic Evolution of Glaciated Valleys: A Stochastic Landscape Evolution Model'. In *Earth Surface Processes and Landforms*, 30(11): 1387-1403
- Dirnbock, T.; Dullinger, S.; Grabherr, G. (2003) 'A Regional Impact Assessment of Climate and Land-use Change on Alpine Vegetation.' In *Journal of Biogeography*, 30: 401-417
- Dixit, A. (2003). 'Floods and Vulnerability: Need to Rethink Flood Management'. In *Natural Hazards*, 28(1): 155-179
- Du, M.Y.; Kawashima, S.; Yonemura, S.; Zhang, X.Z.; Chen, S.B. (2004) 'Mutual Influence between Human Activities and Climate Change in the Tibetan Plateau during Recent Years'. In *Global and Planetary Change*, 41: 241-249
- Dyurgerov, M.D.; Meier, M.F. (2005) *Glaciers and Changing Earth System: A 2004 Snapshot*, p117. Boulder (Colorado): Institute of Arctic and Alpine Research, University of Colorado
- Fang, J.Y.; Chen, A.P.; Peng, C.H.; Zhao, S.Q.; Ci, L.J. (2001) 'Changes in Forest Biomass Carbon Storage in China between 1949 and 1998. In *Science*, 292: 2320-2322
- Fowler, H.J.; Archer, D.R. (2006) 'Conflicting Signals of Climatic Change in the Upper Indus Basin'. In *Journal of Climate*, 19(17): 4276-4293
- Fujita, K.; Kadota, T.; Rana, B.; Shrestha, R.B.; Ageta, Y. (2001) 'Shrinkage of Glacier AX010 in Shorong Region, Nepal Himalayas, in the 1990s'. In *Bulletin of Glaciological Research*, 18: 51-54
- Fujita, K.; Nakawo, M.; Fujii, Y.; Paudyal, P. (1997) 'Changes in Glaciers in Hidden Valley, Mukut Himal, Nepal Himalayas, from 1974 to 1994'. In *Journal of Glaciology*, 43: 583-588
- Gao, Q.; Shi, S. (1992) 'Water Resources in the Arid Zone of Northwest China.' In *J. Desert Res*, 12(4): 1-12
- Gao, Q.Z.; Li, Y.; Lin, E.D.; Jiangcu, W.Z.; Wan, Y.F.; Xiong, W.; Wang, B.S.; Li, W.F. (2005) 'Temporal and Spatial Distribution of Grassland Degradation in Northern Tibet'. In *Acta Geographica Sinica*, 60(6): 965-973
- Gibband, S.; Caldeira, K.; Bala, G.; Phillips, T.J.; Wickett, M. (2005) 'Climate Effects of Global Land Cover Change'. In *Geophysical Research Letters*, 32(L23705): 1-4
- Gyawali and Dixit (Hartmann, D.L. (1994) *Global Physical Climatology*. San Diego: Academic Press
- Hewitt, K.; Wake, C.P.; Young, G.J.; David, C. (1989) 'Hydrological Investigation at Biafo Glacier, Karakoram Himalaya: An Important Source of Water for the Indus River'. In *Ann. Glaciol*, 13: 103-108
- Hewitt, K. (2005) 'The Karakoram Anomaly? Glacier Expansion and the 'Elevation Effects,' Karakoram Himalaya'. In *Mountain Research and Development*, 25(4): 332-340
- Hewitt, K. (2007) 'Tributary Glacier Surges: An Exceptional Concentration at Panmah Glacier, Karakoram Himalaya'. In *Journal of Glaciology*, 53: 181-188
- Hofer, T., Messerli, B. (2006) *Floods in Bangladesh: History, Dynamics and Rethinking the Role of the Himalayas*. New York: United Nations University Press
- Hu, Z.; Song, Y.; Wu, R. (2003) 'Long-term Climate Variations in China and Global Warming Signals'. In *Journal of Geophysical Research*, 108(D19): 4614
- IPCC (2007) 'Climate Change 2007: The Physical Sciences Basis'. In *Summary for Policy Makers*, IPCC: 21. Geneva: IPCC
- IUCN; IWMI; Ramsar Convention and WRI (2003) *Water Resources Atlas*. Available online at [http://multimedia.wri.org/watersheds\\_2003/index.html](http://multimedia.wri.org/watersheds_2003/index.html), accessed on 12 June 2007

- IUCN/IWMI; Ramsar Convention Bureau and WRI (2002) *Watersheds of the World*. Washington: World Resources Institute
- Ives, J.D.; Messerli B. (1989) *The Himalayan Dilemma: Reconciling Development and Conservation*. London: John Wiley and Sons
- Ives, J.D. (2004) *Himalayan Perceptions*. London and New York: Routledge
- Jian, M.Q.; Qiao, Y.T.; Yuan, Z.J.; Luo, H.B. (2006) 'The Impact of Atmospheric Heat Sources over the Eastern Tibetan Plateau and the Tropical Western Pacific on the Summer Rainfall over the Yangtze-River Basin'. In *Advances in Atmospheric Sciences*, 23(1): 149-155
- Jodha, N.S. (2005) 'Adaptation Strategies against Growing Environmental and Social Vulnerabilities in Mountain Areas'. In *Himalayan Journal of Science*, 3(5): 33-42
- Kadota, T.; Fujita, K.; Seko, K.; Kayastha, R.B.; Ageta, Y. (1997) 'Monitoring and Prediction of Shrinkage of a Small Glacier in Nepal Himalaya'. In *Annals of Glaciology*, 24: 90-94
- Kattelmann, R. (1987) 'Uncertainty in Assessing Himalayan Water Resources'. In *Mountain Research and Development*, 7(3): 279-286
- Körner, C. (2004) 'Mountain Biodiversity, Its Causes and Function'. In *Ambio*, 13: 11-17
- Lawrence, D.M.; Slater, A.G. (2005) 'A Projection of Severe Near-surface Permafrost Degradation during the 21<sup>st</sup> Century'. In *Geophysical Research Letters*, 32(L24401): 1-5
- Lebel, L.; Contreras, A.; Pasong, S.; Garden, P. (2004) 'Nobody Knows Best: Alternative Perspectives on Forest Management and Governance in Southeast Asia'. In *International Environmental Agreements: Politics, Law and Economics*, 4(2): 111-127
- Liu, S.Y.; Ding, Y.J.; Li, J.; Shangguan, D.H.; Zhang, Y. (2006) 'Glaciers in Response to Recent Climate Warming in Western China'. In *Quaternary Sciences*, 26(5): 762-771
- Liu, X.; Chen, B. (2000) 'Climatic Warming in the Tibetan Plateau during Recent Decades'. In *International Journal of Climatology*, 20: 1729-1742
- Ma, Y.S.; Wang, Q.J. (1999) 'Black Soil' Type of Rangeland Degradation: An Overview and Perspective' In *Pratacultural Science*, 16(2): 5-9
- McCarty, J.P. (2001) 'Ecological Consequences of Recent Climate Change'. In *Conservation Biology*, 15(2): 320-331
- Menzel, A.; Sparks, T.H.; Estrella, N.; Koch, E. (2006) 'European Phenological Response to Climate Change Matches the Warming Pattern' In *Global Change Biology*, 12: 1969-1976
- Merz, J. (2004) *Water Balances, Floods and Sediment Transport in the Hindu Kush-Himalayas*. Berne: Institute of Geography, University of Berne
- Messerli, B.; Viviroli, D.; Weingartner, R. (2004) 'Mountains of the World: Vulnerable Water Towers for the 21<sup>st</sup> Century'. In *Ambio*, 13: 29-34
- Mi, D.; Xie, Z. (2002) *Glacier Inventory of China*. Xi'an: Xi'an Cartographic Publishing House
- Miller, D.J. (2000). *Searching for Grass and Water: Rangeland Ecosystem Sustainability and Herders' Livelihoods in Western China*. Kathmandu: ICIMOD
- Mool, P. (2001) *Glacial Lakes and Glacial Lake Outburst Floods*, ICIMOD Mountain Development Profile, MDP#2. Kathmandu: ICIMOD
- NEA (2004) *Upper Tamakoshi Hydroelectric Project Feasibility Study*. Kathmandu: Nepal Electricity Authority
- Ni, J. (2000) 'A Simulation of Biomes on the Tibetan Plateau and Their Responses to Global Climate Change'. In *Mountain Research and Development*, 20(1): 80-89
- OECD (2003) *Development and Climate Change: Focus on Water Resources and Hydropower*. Paris: Organization for Co-operation and Development
- Oki, T. (2003) 'Global Water Resources Assessment under Climatic Change in 2050 using TRIP'. In *Water Resources Systems—Water Availability and Global Change* (Proceedings of symposium HS02a held during IUGG2003 in Sapporo, July 2003). IAHS Publ. No. 280. Fontainebleau (France): IAHS
- Oki, T.; Kanae, S. (2006) 'Global Hydrological Cycles and World Water Resources' In *Science*, 313: 1068-1072
- Parmesan, C. (2006). 'Ecological and Evolutionary Responses to Recent Climate Change'. In *Ann. Rev. Ecol. Evol. Syst.*, 37: 637-69
- Qin D.H. (2002) 'Glacier Inventory of China (Maps)'. Xi'an: Xi'an Cartographic Publishing House
- Ramakrishna, R.N.; Keeling, C.D.; Hashimoto, H.; Jolly, W.M.; Piper, S.C.; Toker, C.J.; Myneni, R.B.; Running, S.W. (2003) 'Climate-driven Increases in Global Terrestrial Net Primary Production from 1982 to 1999'. In *Science*, 300: 1560-1563
- Rebetez, M.; Dobbertin, M. (2004) 'Climate Change May Already Threaten Scots Pine Stands in the Swiss Alps.' In *Theoretical and Applied Climatology*, 79(1-2): 1-9
- Rees, G.H; Collins, D. N. (2004) *An Assessment of the Impacts of Deglaciation on the Water Resources of the Himalaya*. Wallingford: Centre for Ecology and Hydrology
- Rees, G.H.; Collins, D.N. (2006) 'Regional Differences in Response of Flow in Glacier-fed Himalayan Rivers to Climate Warming'. In *Hydrological Processes*, 20: 2157-2167
- Rodó, X.; Pascual, M.; Fuchs, G.; Faruque, A.S.G. (2002) 'ENSO and Cholera: A Non-stationary Link Related to Climate Change?' In *PNAS*, 99(20): 12901-12906
- Rupa Kumar, K.; Sahai, A.K.; Krishna Kumar, K.; Patwardhan, S.K.; Mishra, P.K.; Revadkar, J.V.; Kamala, K.; Pant, G.B. (2006) 'High Resolution Climate Change Scenario for India for the 21st Century'. In *Current Science*, 90: 334-345
- Shrestha, A.B.; Wake, C.P.; Mayewski, P.A.; Dibb, J.E. (1999) 'Maximum Temperature Trends in the Himalaya and Its Vicinity: An Analysis Based on Temperature Records from Nepal for the Period 1971-94'. In *Journal of Climate*, 12: 2775-2787

- Siddiqui, K.M.; Mohammad, I.; Ayaz, M. (1999) 'Forest Ecosystem Climate Change Impact Assessment and Adaptation Strategies for Pakistan'. In *Climate Research*, 12: 195-203
- Singh, P.; Bengtsson, L. (2004) 'Hydrological Sensitivity of a Large Himalayan Basin to Climate Change'. In *Hydrological Processes*, 18: 2363-2385
- Singh, P.; Bengtsson, L. (2005) 'Impact of Warmer Climate on Melt and Evaporation for the Rainfed, Snowfed and Glacierfed Basins in the Himalayan Region'. In *Journal of Hydrology*, 300: 140-154
- Srivastava, D. (2003) 'Recession of Gangotri Glacier'. In Srivastava, D.; Gupta, K.R.; Mukerji, S. (eds). *Proceedings of Workshop on Gangotri Glacier: Lucknow 26-28 March 2003: Special Publication No. 80*. New Delhi: Geological Survey of India
- Thompson, M.; Warburton, M. (1985) 'Uncertainty on a Himalayan Scale'. In *Mountain Research and Development*, 5(2): 115-35
- Thompson, M.; Gyawali, D. (2007) 'Introduction: Uncertainty Revisited'. In Thompson, M., Warburton, M., Hatley, T. (eds) *Uncertainty on a Himalayan Scale*. Kathmandu: Himal Books
- UNDP (2006) *Human Development Report: Beyond Scarcity: Power, Poverty and the Global Water Crisis*. New York: United Nations Development Programme
- Vohra, C.P. (1993). 'Himalayan Glaciers.' In Verghese, B.G.; Iyer, R.R. (eds) *Harnessing the Eastern Himalayan Rivers: Regional Cooperation in South Asia*. Delhi: Konark Publishers
- Wang, H.J.; Yang, Z.S.; Saito, Y.; Liu, J.P.; Sun, X.X. (2006) 'Interannual and Seasonal Variation of the Huanghe (Yellow River) Water Discharge over the Past 50 Years: Connections to Impacts from ENSO Events and Dams'. In *Global and Planetary Change*, 50: 212-225
- Winiger, M.; Gumpert, M.; Yamout, H. (2005) 'Karakoram-Hindu Kush-Western Himalaya: Assessing High-altitude Water Resources'. In *Hydrological Processes*, 19(12): 2329-2338
- Wu, Q.B.; Li, X.; Li, W.J. (2001) 'The Response Model of Permafrost along the Qinghai-Tibetan Highway under Climate Change'. In *Journal of Glaciology and Geocryology*, 23(1): 1-6
- WWF (2005) *An Overview of Glaciers, Glacier Retreat and Its Subsequent Impacts in Nepal, India and China*. Kathmandu: WWF-Nepal
- Xu, J.; Rana, G.M. (2005) 'Living in the Mountains'. In Jeggle, T. (ed) *Know Risk*, p196-199. Geneva: UN Inter-agency secretariat of the International Strategy for Disaster Reduction
- Xu, J.C.; Wilkes, A. (2004) 'Biodiversity Impact Analysis in Northwest Yunnan, Southwest China'. In *Biodiversity and Conservation*, 13(5): 959-983
- Yao, T.D.; Wang, Y.Q.; Liu, S.Y.; Pu J.C.; Shen Y.P. (2004) 'Recent Glacial Retreat in High Asia in China and Its Impact on Water Resources in Northwest China'. In *Science in China Ser. D Earth Science*, 47(12): 1065-1075
- Yao, T.D.; Guo, X.J.; Lonnie, T.; Duan, K.Q.; Wang, N.L.; Pu, J.C.; Xu, B.Q.; Yang, X.X.; Sun, W.Z. (2006) 'δ18O Record and Temperature Change over the Past 100 years in Ice Cores on the Tibetan Plateau'. In *Science in China: Series D Earth Science*, 49(1): 1-9
- Yamada, T. (1998) 'Monitoring of Glacier Lake and Its Outburst Floods in Nepal Himalaya'. In *Japanese Society of Snow and Ice*, Monograph No. 1. Tokyo: Japanese Society of Snow and Ice
- Zhao, L.; Ping, C.L.; Yang, D.Q.; Cheng, G.D.; Ding, Y.J.; Liu, S.Y. (2004) 'Change of Climate and Seasonally Frozen Ground over the Past 30 Years in Qinghai-Tibetan Plateau, China'. In *Global and Planetary Change*, 43: 19-31
- Zheng, J.Y.; Ge, Q.S.; Hao, Z.X. (2002) 'Impact of Climate Warming on Plant Phenology during Recent 40 years in China'. In *Scientific Bulletin*, 47(20): 1582-1587 (in Chinese)
- Zhong, C.; He, X.R.; Li, H.X. (2003) 'Application of Remote Sensing Technology to Grassland Degradation Assessment in Naqu, Tibetan Plateau'. In *Remote Sensing Technology and Application*, 18(2): 99-102