References

Ageta, Y; Iwata, S (1999) The assessment of glacier lake outburst flood (GLOF) in Bhutan, Report of Japan-Bhutan joint research 1998. Nagoya: Nagoya University, Institute for Hydrospheric-Atmospheric Sciences

Ageta, Y; Iwata, S; Yabuki, H; Naito, N; Sakai, A; Narama, C; Karma, T (2000) 'Expansion of glacier lakes in recent decades in the Bhutan Himalayas.' In *Debris-covered glaciers*, Proceedings of a workshop held in Seattle, Washington, USA, September 2000, pp. 165-175. Wallingford: International Association of Hydrological Sciences

Ageta, Y; Naito, M; Nakawo, M; Fujita, K; Shankar, K; Pokhrel, AP; Wangda, D (2001) 'Study project on the recent rapid shrinkage of summer-accumulation type glaciers in the Himalayas, 1997-1999.' *Bulletin of Glaciological Research* 18: 45-49

Ahlmann, HW (1948) Glaciological research on the North Atlantic Coasts, Research series No 1. London: Royal Geographical Society

Alford, D; Armstrong, R; Racoviteanu, A (2009) *Glacier retreat in the Nepal Himalaya: The role of glaciers in the hydrologic regime of the Nepal Himalaya, report prepared for the World Bank, South Asia Sustainable Development (SASDN), Environment and Water Resources Unit*

Armstrong, R; Alford, D; Racoviteanu, A (2009) 'Glaciers as indicators of climate change: The special case of the high elevation glaciers of the Nepal Himalaya.' Sustainable Mountain Development (ICIMOD), Water storage 56: 4-16

Bajracharya, SR (2009) *Glacial lake outburst floods risk reduction activities in Nepal.* Paper presented at Asia Pacific symposium on New Technologies for Prediction and Mitigation of Sediment Disasters, 18-19 November 2009, Tokyo, Japan

Bajracharya, SR; Gurung, DR; Uddin, K; Mool, K; Shrestha, BR (2009) *Mapping and inventory of glaciers using remote sensing data and techniques: Hands on training manual.* Unpublished internal document, ICIMOD, Kathmandu

Bajracharya, SR; Mool, PK; Shrestha, BR (2007) Impact of climate change on Himalayan glaciers and glacial lakes: Case studies on GLOF and associated hazards in Nepal and Bhutan. Kathmandu: ICIMOD

Bajracharya, SR; Mool, PK; Shrestha, BR (2008) 'Global climate change and melting of Himalayan glaciers.' In Ranade, PS (ed) Melting glaciers and rising sea levels: Impacts and implications, pp.28-46. Hyderabad: Icfai University Press

Bhagat, RM; Kalia, V; Sood, C; Mool, PK; Bajracharya, S (2004) Inventory of glaciers and glacial lakes and the identification of potential glacial lake outburst floods (GLOFs) affected by global warming in the mountains of the Himalayan region: Himachal Pradesh Himalaya, India. Unpublished project report, with database on CD-ROM, prepared for APN and ICIMOD, Kathmandu, by Himachal Pradesh Agricultural University, Palampur, India

Björnsson, H (1974) Explanation of jökulhlaup from Grimsvötn, Iceland. Jökull 24: 1-26

Björnsson, H (2009) 'Jökulhlaup in Iceland: Sources, release and drainage.' In Burr, DM; Carling, PA; Baker, VR (eds) *Megaflooding* on Earth and Mars, pp 50-64. Cambridge: Cambridge University Press

Bolch, T; Buchroithner, MF; Peters, J; Baessler, M; Bajracharya, S (2008) 'Identification of glacier motion and potentially dangerous glacial lakes in the Mt. Everest region, Nepal using spaceborne imagery.' *Natural Hazards Earth System Sciences* 8: 1329-1340

Byers, AC (2007) 'An assessment of contemporary glacier fluctuations in Nepal's Khumbu Himal using repeat photography.' *Himalayan Journal of Science* 4: 21-26

Carson, B (1985) Erosion and sedimentation processes in the Nepalese Himalaya, Occasional paper No. 1. Kathmandu: ICIMOD

GoB (2005) National report on Bhutan for world conference on disaster reduction, 18-22 January 2005, Kobe, Japan. Thimpu: Government of Bhutan, Ministry of Home Affairs, Department of Local Governance

GoB (1996) Glaciers and glaciers lakes in the headwaters of major river basins of Bhutan. Thimpu: Government of Bhutan, Ministry of Trade and Industry, Division of Geology and Mines

Fujita, K; Sakai, A; Nuimura, T; Yamaguchi, S; Sharma, RR (2009) 'Recent changes in Imja glacial lake and its damming moraine n the Nepal Himalaya revealed by in situ surveys and multi-temporal ASTER imagery.' *Environmental Research Letter* 4: 045205

Gansser, A (1966) 'Geological research in the Bhutan Himalaya.' In *The Mountain World, 64/65*, pp 88-97. Zurich: The Swiss Foundation for Alpine Research

Gergan, JT; Thayyen, RJ; Morup, T (2009) *Phutse glacial lake outburst flood, Ladakh range, Leh, Ladakh, Jammu and Kashmir.* Second India Disaster Management Congress, 4-6 November 2009, pp 75-76. New Delhi: National Institute of Disaster Management

Hambrey, MJ; Quincey, DJ; Glasser, NF; Reynolds, JM; Richardson, SJ; Clemmens, S (2008) 'Sedimentological, geomorphological and dynamic context of debris-mantled glaciers, Mount Everest (Sagarmatha) region, Nepal.' *Quaternary Science Reviews* 27: 2361-2389

Hammond, JE (1988) *Glacial lakes in the Khumbu region, Nepal: An assessment of the hazards.* MSc thesis, University of Colorado, Department of Geography, Boulder

Hanisch, J; Delisle, G; Pokhrel, AP; Dixit, AP; Reynolds, JM; Grabs, WE (1998) 'The Thulagi glacier lake, Manaslu Himal, Nepal: Hazard assessment of a potential outburst.' In Moore, D; Hunger, O (eds) *Proceedings of the 8th International Congress, International Association for Engineering Geology and Environment*, 21–25 September 1998, Vancouver, Canada, pp. 2209-2215. Vancouver: Tire-A-Art Offprint

Häusler, H; Leber, D (1998) Final report of Raphstreng Tsho Outburst Flood Mitigatory Project (Lunana, Northwestern Bhutan) Phase I. Vienna: University of Vienna, Institute of Geology

Häusler, H; Leber, D; Schreilechner, M; Morawetz, R; Lentz, H; Skuk, St; Meyer, M; Janda, Ch; Burgschwaiger, E (2000) *Final* report of Raphstreng Tsho Outburst Flood Mitigatory Project (Lunana, Northwestern Bhutan) Phase II. Vienna: University of Vienna, Institute of Geology

Hewitt, K (1982) 'Natural dams and outburst floods of the Karakoram Himalaya.' In Glen, JW (ed) *Hydrological aspects of Alpine* and high mountain areas, IAHS publication No 138, pp 259-269. Wallingford: International Association of Hydrological Sciences

Hewitt, K (2009) *Glaciers get a surge of attention in the Karakoram Himalaya.* American Geophysical Union website. www.agu. org/sci_soc/eishewitt.html. (accessed 10 March 2010)

Horstmann, B (2004) Glacial lake outburst floods in Nepal and Switzerland – New threats due to climate change. Bonn: Germanwatch. www.germanwatch.org (accessed 15 May 2010)

Huggel, C; Haeberli, W; Kääb, A; Hoelzle, M; Ayros, E; Portocarrero, C (2003) 'Assessment of glacier hazards and glacier runoff for different climate scenarios based on remote sensing data: A case study for a hydropower plant in the Peruvian Andes.' In *Observing our Cryosphere from Space, Proceedings of EARSel-LISSIG workshop held* 11-13 March 2002, Berne, Switzerland, pp 22-33. Paris: EARSel. www.eproceedings.org/static/vol02_1/contents.html (accessed May 2009)

Huggel, C; Kääb, A; Haeberli, W; Teysseire, P; Paul, F (2002) 'Remote sensing based assessment of hazards from glacier lake outbursts: A case study in the Swiss Alps.' *Canadian Geotechnical Journal* 39:316–330

ICIMOD (2008) Internal report on regional consultation workshop on GLOF and Flash Flood Risk Assessment in the Hindu Kush-Himalaya, 30 July-1 August 2008, Kathmandu, Nepal. Unpublished internal report, ICIMOD, Kathmandu

ICIMOD (2009a) Internal report on regional consultative workshop on Remote Sensing of the Cryosphere - Assessment and Monitoring of Snow and Ice in the Hindu Kush Himalaya Region, 31 March-2 April 2009, Kathmandu, Nepal. Unpublished internal report, ICIMOD, Kathmandu ICIMOD (2009b) Progress report for the Project 'Hazard Assessment and Mitigation Study of Potential GLOF lakes in Nepal. Unpublished internal report, ICIMOD, Kathmandu

ISDR (2000) Usoi landslide dam and Lake Sarez: An assessment of hazard and risk in the Pamir Mountains, Tajikistan, ISDR Prevention Series, No1. Geneva: United Nations, International Strategy for Disaster Reduction

Ives, JD (1986) Glacial lake outburst floods and risk engineering in the Himalaya: A review of the Langmoche disaster, Khumbu Himal, 4 August1985, Occasional paper No 5. Kathmandu: ICIMOD

Ives, JD (2004) 'What are the facts? Misleading perceptions, misconceptions, and distortions.' In Ives, JD *Himalayan perceptions:* Environmental change and the well-being of mountain peoples, pp211-228. London: Routledge

Ives, JD (2005) 'Global warming: A threat to Mount Everest?' Mountain Research and Development 25 (4): 394-398

Ives, JD; Messerli, B (1981) 'Mountain hazards mapping in Nepal: Introduction to an applied mountain research project.' *Mountain Research and Development* 1: 223-230

Kääb, A; Huggel, C; Fischer, L; Guex, S; Paul, F; Roer, I; Salzmann, N; Schlaefli, S; Schmutz, K; Schneider, D; Strozzi, T; Weidmann, Y (2005) 'Remote sensing of glacier- and permafrost-related hazards in high mountains: an overview.' *Natural Hazards and Earth System Sciences* 5: 527-554

Karma, T; Ageta, Y; Naito, N; Iwata, S; Yabuki, H (2003) 'Glacier distribution in the Himalayas and glacier shrinkage from 1963 to 1993 in the Bhutan Himalayas.' *Bulletin of Glaciological Research* 20: 29-40

Karma, T; Ghalley, KS; Thinley, U (2008) Hazard zonation for glacier lake outburst flood along Punatshang chu from Khuruthang to Lhamoyzinkha. (eds. Y. Dorji), DGM – NCAP Project (Oct. 2006 – May 2008)

Khanal, NR; Koirala, H; Nepal, P; Rai, D; Khanal, B; Sigdel, S; Sharma, AR (2009) *GLOF risk assessment of the Imja, Tsho Rolpa* and *Thulagi glacial lakes in Nepal.* Unpublished report for ICIMOD, Kathmandu, Nepal

LIGG; WECS; NEA (1988) Report on first expedition to glacier and glaciers lakes in the Pumqu (Arun) and Poiqu (Bhote-Sun Kosi) river basin, Xizang (Tibet), China: Sino-Nepalese investigation of glacial lake outburst floods in the Himalaya. Beijing: Science Press

Lliboutry, L; Morales Arnao B; Pautre, A; Schneider, B; (1977) 'Glaciological problems set by the control of dangerous lakes in Cordillera Blanca, Peru I. Historical failures of morainic dams, their causes and prevention.' *Journal of Glaciology* 18: 239-254

McKillop, RJ; Clague, JJ (2007) 'Statistical, remote sensing-based approach for estimating the probability of catastrophic drainage from moraine-dammed lakes in southwestern British Columbia.' *Global and Planetary Change* 56: 153-171

Modder, S; van Olden, Q; (1996) Engineering-geomorphological analysis of moraine dam in the Nepal Himalayas, A detailed survey (scale 1:1500) at Tsho Rolpa glacier lake, Rolwaling valley, Dolakha District, East Nepal. MSc thesis, Vrije Universiteit Amsterdam, Faculty of Earth Sciences, Amsterdam

Mool, PK (1995) 'Glacier lake outburst floods in Nepal.' Journal of Nepal Geological Society 11: 273-280

Mool, PK; Bajracharya, SR; Joshi, SP (2001a) Inventory of glaciers, glacial lakes, and glacial lake outburst floods: Monitoring and early warning systems in the Hindu Kush-Himalayan regions - Nepal. Kathmandu: ICIMOD

Mool, PK; Wangda, D; Bajracharya, SR; Kunzang, K; Gurung, DR; Joshi, SP; (2001b) Inventory of glaciers, glacial lakes, and glacial lake outburst floods: Monitoring and early warning systems in the Hindu Kush-Himalayan region – Bhutan. Kathmandu: ICIMOD

Mool, PK; Bajracharya, SR (2003) Inventory of glaciers, glacial lakes and the identification of potential glacial lake outburst floods (GLOFs) affected by global warming in the mountains of Himalayan region: Tista Basin, Sikkim Himalaya, India. Unpublished project report, with database on CD-ROM, prepared for APN and ICIMOD, Kathmandu

Mool, PK (2005) Monitoring of glaciers and glacial lakes from 1970s to 2000 in Poiqu Basin, Tibet Autonomous Region, PR China. Unpublished report prepared by ICIMOD, Kathmandu, Nepal, and CAREERI, Gansu, China Naito, N; Nakawo, M; Kadota, T; Raymond, CF (2000) 'Numerical simulation of recent shrinkage of Khumbu Glacier, Nepal Himalayas.' *Proceedings of the Debris Covered Glacier Workshop*, held in Seattle, Washington, USA, IAHS Publication No. 264, 2000, pp 245-254. Wallingford (UK): International Association of Hydrological Sciences

Nakawo, M; Fujita, K; Ageta, Y; Shankar, K; Pokharel, AP; Yao, T (1997) 'Basic studies for assessing the impacts of the global warming on the Himalayan cryosphere, 1994-1996.' *Bulletin of Glacier Research* 15: 53-58

Puri, VMK; Singh, RK; Srivastava, D; Sangewar, CV; Swaroop, S; Gautam, CK (1999) 'Inventory of the Himalayan glaciers: A contribution to the International Hydrological Programme. In Kaul, MK (ed) *Geological survey of India*, pp 1-14. Calcutta: Geological Survey of India

Raina, VK; Srivastava, D (2008) Glacier atlas of India. Bangalore: Geological Society of India

Reynolds, JM (1999) 'Glacial hazard assessment at Tsho Rolpa, Rolwaling, Central Nepal.' *Quaterly Journal of Engineering Geology* 32: 209-214

Richardson, SD; Reynolds, JM (2000) 'An overview of glacial hazards in the Himalayas.' Quaternary International 65/66: 31-47

Roohi, R; Ashraf, R; Naz, R; Hussain, SA; Chaudhry, MH (2005) Inventory of glaciers and glacial lakes outburst floods (GLOFs) affected by global warming in the mountains of Himalayan region, Indus Basin, Pakistan Himalaya. Report prepared for ICIMOD, Kathmandu, Nepal

Roohi, R; Ashraf, R; Mustafa N; Mustafa, T (2008) Preparatory assessment report on community based survey for assessment of glacial lake outburst flood hazards (GLOFs) in Hunza River Basin. Islamabad: Water Resources Research linstitute; National Agricultural Research Centre, Islamabad, and UNDP Pakistan

Sah, M; Philip, G; Mool, PK; Bajracharya, S; Shrestha, B (2005) Inventory of glaciers and glacial lakes and the identification of potential glacial lake outburst floods (GLOFs) affected by global warming in the mountains of Himalayan region: Uttaranchal Himalaya, India. Unpublished project report, with database on CD-ROM, prepared for APN and ICIMOD, Kathmandu.

SDMC (2008) South Asian disaster report 2007: Glacial lake outburst. New Delhi: SAARC Disaster Management Centre

Shrestha, MS; Bajracharya, SR; Mool, P (2008) Satellite rainfall estimation in the Hindu-Kush Himalayan Region. Kathmandu: ICIMOD

Stone, R (2009) 'Peril in the Pamirs.' Science 8: 1614-1617

Thorarinsson, S (1939) 'Ice-dammed lakes of Iceland, with particular reference to their value as indicators of glacier oscillations.' *Geografiska Annaler* 21 (3-4): 216-242

Thorarinsson, S (1940) 'The ice-dammed lakes of Iceland.' Geografiska Annaler 22: 131-159

Thorarinsson, S (1943) 'Oscillations of the Icelandic glaciers in the last 250 years.' Geografiska Annaler 25: 1-54

Thorarinsson, S (1953) 'Some New Aspects of the Grimsvotn Problem.' Journnal of Glaciology 2 (14): 267-275

Tshering, N (2008) An analysis of socio-economic impact and risk mitigation and preparedness of GLOF events in Bhutan: A case study of Samdingkha. Darwin: UNDP-ECHO

UNDP (2008) 'Capacity building for disaster risk reduction of regional glacial lake outburst floods (GLOF): Preparatory assessment study report - Sutlej Basin, Himachal Pradesh, India.' In *Proceedings of the DIPECHO Interagency Coordination Meeting, September* 23, 2008, New Delhi, India. New Delhi: UNDP and European Commission Humanitarian Aid. www.managingclimaterisk.org/ document/India-Preparatory-Assessment-Report-GLOF-Initiative.pdf (accessed April 2010)

UNDP-ECHO (2007a) *Regional GLOF Risk Reduction Project in Bhutan.* Web page from UNDP, New York. www. managingclimaterisk.org/index.php?menu_id=7&submenu_id=112&pagetype_menu=2&content_id=SMN-12 (accessed April 2010) UNDP-ECHO (2007b) *Regional GLOF Risk Reduction Project in Pakistan*. Web page from UNDP, New York. www. managingclimaterisk.org/index.php?menu_id=7&submenu_id=115&pagetype_menu=2&content_id=SMN-15 (accessed April 2010)

UNDP-ECHO (2007c) *Risk reduction in the Himalayas project: Regional glacial lake outburst floods.* Web page from UNDP, New York. http://managingclimaterisk.org/index.php?menu_id=2&pagetype_menu=2&content_id=MEN-2 (accessed April 2010)

United Nations (2006) *Global Survey of Early Warning Systems*. A report prepared by UNISDR at the request of the Secretary-General of the United Nations. Geneva: UNISDR. www. unisdr.org/ppew/info-resources/ewc3/Global-Survey-of-Early-Warning-Systems.pdf (accessed April 2010)

Vuichard, D; Zimmermann, M (1986) 'The Langmoche flashflood, Khumbu Himal, Nepal.' *Mountain Research and Development* 6 (1): 90-93

Vuichard, D; Zimmermann, M (1987) 'The 1985 catastrophic drainage of a moraine-dammed lake, Khumbu Himal, Nepal: Cause and consequences.' *Mountain Research and Development* 7: 91-110

Watanabe, T; Ives, JD; Hammond, JE (1994) 'Rapid growth of a glacial lake in Khumbu Himal, Nepal: Prospects for a catastrophic flood.' *Mountain Research and Development* 14: 329-340

Watanabe, T; Rothacher, D (1996) 'The 1994 Luggye Tsho glacier lake outburst flood, Bhutan Himalaya.' *Mountain Research and Development* 16(1): 77-81

Watanabe, T; Lamsal, D; Ives, JD (2009) 'Evaluating the growth characteristics of a glacial lake and its degree of danger: Imja glacier, Khumbu Himal, Nepal.' Norwegian Journal of Geography 63(4): 255-267

WECS (1987) Study of glacier lake outburst floods in the Nepal Himalaya: Phase 1, Interim report, May 1987, Report No. 4/1/200587/1/1, Seq. No. 251. Kathmandu: WECS

WECS (1993) Interim report on the field investigation on the Tsho Rolpa Glacier Lake, Rolwaling Valley, Report No 3/4/021193/1/1, Seq. No. 436. Kathmandu: WECS

WECS (1994) Report for the field investigation on the Tsho Rolpa glacier lake, Rolwaling valley, February 1993-June 1994, WECS N551.489 KAD. Kathmandu: WECS

Wu Lizong; Che Tao; Jin Rui; Li Xin; Gong Tongliang; Xie Yuhong; Mool, PK; Bajracharya, S; Shrestha, B; Joshi, S (2005) Inventory of glaciers, glacial lakes and the identification of potential glacial lake outburst floods (GLOFs) affected by global warming in the mountains of Himalayan region: Pumqu, Rongxer, Poiqu, Zangbuqin, Jilongcangbu, Majiacangbu, Daoliqu, and Jiazhagangge basins, Tibet Autonomous Region, People's Republic of China. Unpublished project report, with database on CD-ROM, prepared for APN and ICIMOD, Kathmandu

Xu Daoming (1988) 'Characteristics of debris flow caused by outburst of glacial lake in Boqu River, Xizang, China, 1981.' GeoJournal 17:569-580

Yamada, T (1998a) 'Glacier lake and its outburst flood in the Nepal Himalaya, data center for glacier research, Monograph No 1.' Tokyo: Japanese Society of Snow and Ice, Data Center for Glacier Research

Yamada, T (1998b) 'Monitoring of Himalayan cryosphere using satellite imagery.' In Singh, RB; Murai, S (eds) *Space informatics for sustainable development*, pp 125-138. New Delhi: Oxford, and IBH Publishing