

References

- Abbott, M.B., Wolfe, B.B., Wolfe, A.P., Seltzer, G.O., Aravena, R., Mark, B.G., Polissar, P.J., Rodbell, D.T., Rowe, H.D. and Vuille, M. (2003): Holocene paleohydrology and glacial history of the central Andes using multiproxy lake sediments studies. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 194: p. 123–138.
- Abdalati, W., Krabill, W., Frederick, E., Manizade, S., Martin, C., Sonntag, J., Swift, R., Thomas, R., Yungel, J. and Koerner, R. (2004): Elevation changes of ice caps in the Canadian Arctic Archipelago. *J. Geophys. Res.*, 109, F04007, doi:10.1029/2003JF000045.
- ACIA (2005): *Arctic Climate Impact Assessment*, Cambridge University Press: 1047 pp.
- Ageta, Y. and Fujita, K (1996): Characteristics of mass balance of summer-accumulation type glaciers in the Himalayas and Tibetan Plateau. *Zeitschrift für Gletscherkunde und Glazialgeologie*, 32 (2): p. 61–65.
- Ageta, Y., Iwata, S., Yabuki, H., Naito, N., Sakai, A., Narama, C. and Karma (2000): Expansion of glacier lakes in recent decades in the Bhutan Himalayas. In: Nakawo, M., Raymond, C.F. and Fountain, A. (eds.): *Debris-Covered Glaciers*, IAHS Publications, 264: p. 165–175.
- Allison, I. and Peterson, J.A. (1976): Ice areas on Puncak Jaya – their extent and recent history. In: Hope, G.S., Peterson, J.A., Radok, U. and Allison, I. (eds.): *The equatorial glaciers of New Guinea – results of the 1971–1973 Australian Universities' expeditions to Irian Jaya: survey, glaciology, meteorology, biology and paleoenvironments*. Rotterdam, A.A. Balkema: p. 27–38.
- Allison, I. and Peterson, J.A. (1989): Glaciers of Irian Jaya, Indonesia. In: USGS (in prep.): *Satellite Image Atlas of Glaciers*. Williams, R.S.Jr. and Ferrigno, J.G. (eds.), *U.S. Geological Survey Professional Paper* 1386-H: H1–H20.
- Ananicheva, M. (2006): Climatically determined glacier fluctuations in the second part of the 20th century - Suntar-Khayata Mountains and Chersky range. In: Kotlyakov et al. (eds.): *The glacialization of Northern and Central Eurasia in present time*. Nauka, Moscow: p. 198–204 (in Russian with abstract in English).
- Anderson, B. (2003): *The Response of Franz Josef Glacier to Climate Change*. University of Canterbury, Christchurch: 129 pp.
- Anderson, B. and Mackintosh, A. (2006): Temperature change as the major driver of late-glacial and Holocene glacier fluctuations in New Zealand. *Geology*, 34 (2): 121–124.
- Andreassen, L.M., Elvehøy, H., Kjølmoen, B., Engeset, R.V. and Haaken- sen, N. (2005): Glacier mass balance and length variations in Norway. *Annals of Glaciology*, 42: p. 317–325.
- Arendt, A., Echelmeyer, K., Harrison, W.D., Lingle, G. and Valentine, V. (2002): Rapid wastage of Alaska glaciers and their contribution to rising sea level. *Science*, 297 (5580): p. 382–386.
- Bamber, J.L., R.L. Layberry, and Gogineni, S.P. (2001): A new ice thickness and bed data set for the Greenland ice sheet, 1. Measurement, data reduction, and errors. *Journal of Geophysical Research*, 106: p. 33733–33780.
- Barnett, T.P., Adam, J.C. and Lettenmaier, D.P. (2005): Potential impacts of a warming climate on water availability in snow-dominated regions. *Nature*, 438(17): p. 303–309.
- Benn, D.I. and Evans, D.J.A. (1998): *Glaciers and Glaciation*. Arnold: 734 pp.
- Benn, D.I., Warren, C.R. and Mottram, R.H. (2007): Calving processes and the dynamics of calving glaciers. *Earth-Science Reviews*, 82(3–4): p. 143–179.
- Berthier, E., Arnaud, Y., Kumar, R., Ahmad, S., Wagnon, P. and Chevalier, P. (2007): Remote sensing estimates of glacier mass balances in the Himachal Pradesh (Western Himalaya, India). *Remote Sensing of Environment*, 108: p. 327–338.
- Birkenmajer, K. (1998): Quaternary geology at Potter Peninsula, King George Island (South Shetland Islands, West Antarctica). *Bulletin of the Polish Academy of Sciences, Earth Sciences* 46: p. 9–20.
- Bishop, M.P., Olsenholler, J.A., Shroder, J.F., Barry, R.G., Raup, B.H., Bush, A.B.G., Coplan, L., Dwyer, J.L., Fountain, A.G., Haerberli, W., Käab, A., Paul, F., Hall, D.K., Kargel, J.S., Molnia, B.F., Trabant, D.C., and Wessels, R. (2004): Global land ice measurements from space (GLIMS). Remote sensing and GIS investigations of the Earth's cryosphere. *Geocarto International*, 19(2): p. 57–84.
- Björnsson, H., Rott, H., Gudmundsson, S., Fischer, A., Siegel, A. and Gudmundsson, M.T. (2001): Glacier-volcano interactions deduced by SAR interferometry. *Journal of Glaciology*, 47, 156: p. 58–70.
- Bolch, T. (2007): Climate change and glacier retreat in northern Tien Shan (Kazakhstan/Kyrgyzstan) using remote sensing data. *Global and Planetary Change*, 56: p. 1–12.
- Brückner, E. and Muret, E. (1908): Les variations périodiques des glaciers. XII^{ème} Rapport, 1906. *Zeitschrift für Gletscherkunde und Glazialgeologie II*: p. 161–198.
- Brückner, E. and Muret, E. (1909): Les variations périodiques des glaciers. XIII^{ème} Rapport, 1907. *Zeitschrift für Gletscherkunde und Glazialgeologie III*: p. 161–185.
- Brückner, E. and Muret, E. (1910): Les variations périodiques des glaciers. XIV^{ème} Rapport, 1908. *Zeitschrift für Gletscherkunde und Glazialgeologie IV*: p. 161–176.
- Brückner, E. and Muret, E. (1911): Les variations périodiques des glaciers. XV^{ème} Rapport, 1909. *Zeitschrift für Gletscherkunde und Glazialgeologie V*: p. 177–202.
- Burga, C., Klötzli, F. and Grabherr, G. (2004): *Gebirge der Erde – Landschaft, Klima, Pflanzenwelt*. Ulmer, Stuttgart: 504 pp.
- Casassa, G., Haerberli, W., Jones, G., Kaser, G., Ribstein, P., Rivera, A. and Schneider, C. (2007): Current status of Andean glaciers. *Global and Planetary Change*, doi:10.1016/j.gloplacha.2006.11.013
- Chinn, T.J. (1979): How wet is the wettest of the wet West Coast. *New Zealand. Alpine Journal*, 32: p. 85–88.
- Chinn, T.J. (1985): Structure and equilibrium of the dry valley glaciers. *New Zealand Antarctica Records*, 6: p.73–88.
- Chinn, T.J. (1996): New Zealand glacier responses to climate change of the past century. *New Zealand Journal of Geology and Geophysics* 39 (3): p. 415–428.
- Chinn, T.J. (2001): Distribution of the glacial water resources of New Zealand. *Journal of Hydrology New Zealand* 40 (2): p. 139–187.
- Chinn, T.J., Heydenrych, C. and Salinger, M.J. (2005): Use of the ELA as a practical method of monitoring glacier response to climate in New Zealand's Southern Alps. *Journal of Glaciology*, 51 (172): 85–95.
- Chueca, J., Julian, A., Saz, M.A., Creus, J. and Lopez, J.I. (2005): Responses to climatic changes since the Little Ice Age on Maladeta Glacier (Central Pyrenees). *Geomorphology*, 68 (3–4): p. 167–182.
- Clapperton, C.M., Sugden, D.E., Birnie, J. and Wilson, M.J. (1989a): Late-Glacial and Holocene glacier fluctuations and environmental change in South Georgia, Southern Ocean. *Quaternary Research* 32: p. 210–228.
- Clapperton, C.M., Sugden, D.E. and Pelto, M. (1989b): The relationship of land terminating and fjord glaciers to Holocene climatic change, South Georgia, Antarctica. In: Oerlemans, J. (ed.): *Glacier Fluctuations and Climatic Change*. Dordrecht, Kluwer Academic Publishers: p. 57–75.
- Clapperton, C.M. (1990): Quaternary glaciations in the Southern Ocean and Antarctic Peninsula area. *Quaternary Science Reviews* 9: p. 229–252.
- Cook, A.J., Fox, A.J., Vaughan, D.G. and Ferrigno, J.G. (2005): Retreating glacier fronts on the Antarctic Peninsula over the past half-century. *Science*, 308, 5721: p. 541–544.
- Cullen, N.J., Mölg, T., Kaser, G., Hussein, K., Steffen, K. and Hardy, D.R. (2006): Kilimanjaro glaciers: Recent areal extent from satellite data and new interpretation of observed 20th century retreat rates. *Geophysical Research Letters*, 33(L16502), doi:10.1029/2006gl027084.
- De Angelis, H. and Skvarca, P. (2003): Glacier surge after ice shelf collapse. *Science*, 299, 5612: p. 1560–1562.
- De Beer, C.M. and Sharp, M. (2007): Recent changes in glacier area and volume within the southern Canadian Cordillera. *Annals of Glaciology* 46: p. 215–221.
- Demuth, M.N. and Keller, R. (2006): An assessment of the mass balance of Peyto Glacier (1966–1995) and its relation to recent and past century climatic variability. In: Demuth, M.N., Munro, D.S. and Young, G.J. (eds.): *Peyto Glacier: One Century of Science*. National Hydrology Research Institute Science Report 8: p. 83–132.
- Demuth, M.N., Pinard, V., Pietroniro, A., Luckman, B.H., Hopkinson, C., Dornes, P. and Comeau, L. (2008): Recent and past-century variations in the glacier resources of the Canadian Rocky Mountains – Nelson River System. *Terra Glacialis*, 11(248): p. 27–52.
- Dowdeswell, J.A., Hagen, J.O., Björnsson, H., Glazovsky, A.F., Harrison, W.D., Holmlund, P., Jania, J., Koerner, R.M., Lefauconnier, B., Ommanney, C.S.L. and Thomas, R.H. (1997): The mass balance of circum-Arctic glaciers and recent climate change. *Quaternary Research*, 48: p. 1–14.
- Dyurgerov, M. and Dwyer, J. (2000): The steepening of glacier mass balance gradients with Northern Hemisphere warming. *Zeitschrift für Gletscherkunde und Glazialgeologie*, 36: p. 107–118.
- Dyurgerov, M., and Meier, M.F. (2005): *Glaciers and the Changing Earth System: A 2004 Snapshot*. Occasional Paper 58, Institute of Arctic and Alpine Research, University of Colorado, Boulder, CO: 118 pp.
- Elsberg, D.H., Harrison, W.D., Echelmeyer, K.A. and Krimmel, R.M. (2001): Quantifying the effect of climate and surface change on glacier mass balance. *Journal of Glaciology*, 47 (159): p. 649–658.
- Finsterwalder, S. and Muret, E. (1901): Les variations périodiques des glaciers. VIII^{ème} Rapport, 1900. Extrait des *Archives des Sciences physiques et naturelles* 106/4 (12): p. 118–131.
- Finsterwalder, S. and Muret, E. (1902): Les variations périodiques des glaciers. VIII^{ème} Rapport, 1901. Extrait des *Archives des Sciences physiques et naturelles* 107/4 (14): p. 282–302.
- Finsterwalder, S. and Muret, E. (1903): Les variations périodiques des glaciers. VIII^{ème} Rapport, 1902. Extrait des *Archives des Sciences physiques et naturelles* 108/4 (15): p. 661–677.
- Forel, F.A. (1895): Les variations périodiques des glaciers. Discours préliminaire. Extrait des *Archives des Sciences physiques et naturelles* XXXIV: p. 209–229.
- Forel, F.A. and Du Pasquier, L. (1896): Les variations périodiques des glaciers. I^{er} Rapport, 1895. Extrait des *Archives des Sciences physiques et naturelles* 101/4 (2): p. 129–147.
- Forel, F.A. and Du Pasquier, L. (1897): Les variations périodiques des glaciers. II^{ème} Rapport, 1896. Extrait des *Archives des Sciences physiques et naturelles* 102/4 (4): p. 218–245.
- Fountain, A.G., Basagic, H.J., Hoffman, M.J. and Jackson, K. (2006): Glacier response in the American West to climate change during the past century. In: Millar, C.I. (ed.): *Mountain climate 2006*. Government Camp, Oregon.
- Francou, B., Vuille, M., Favier, V. and Cáceres, B. (2004): New evidence for an ENSO impact on low-latitude glaciers: Antizana 15, Andes of Ecuador, 0°28'S. *Journal of Geophysical Research* 109, D18106, doi:10.1029/2003JD004484.
- Frenot, Y., Gloaguen, J.-C., Picot, G., Bougère, J. and Benjamin, D. (1993): Azorella selago Hook used to estimate glacier fluctuations and climatic history in the Kerguelen Islands over the last two centuries. *Oecologia* 95: p. 140–144.
- Fujita, K., and Ageta, Y. (2000): Effect of summer accumulation on glacier mass balance on the Tibetan Plateau revealed by mass-balance model. *Journal of Glaciology*, 46 (153): p. 244–252.
- GCOS (2004): Implementation plan for the Global Observing System for Climate in support of the UNFCCC. Report GCOS – 92 (WMO/TD No. 1219): 136 pp.
- Gellatly, A.F., Chinn, T.J.H. and Röthlisberger, F. (1988): Holocene glacier variations in New Zealand: a review. *Quaternary Science Reviews* 7: p. 227–242.
- Gerbaux, M., Genthon, C., Etchevers, P., Vincent, C. and Dedieu, J.P. (2005): Surface balance of the glaciers in the French Alps: distributed modeling and sensitivity to climate change. *Journal of Glaciology* 51 (175): p. 561–572.
- Gordon, J.E., Haynes, V.M. and Hubbard, A. (2008): Recent glacier changes and climate trends on South Georgia. *Global and Planetary Change*, 60: p. 72–84.
- Granshaw, F.D. and Fountain, A.G. (2006): Glacier change (1958–1998) in the North Cascades National Park Complex, Washington, USA. *Journal of Glaciology*, 52 (177): p. 251–256.
- Greene, A.M. (2005): A time constant for hemispheric glacier mass balance. *Journal of Glaciology* 51 (174): p. 353–362.
- Griffiths, G.A. and McSaveney, M.J. (1983): Distribution of mean annual precipitation across some steepland regions of New Zealand. *New Zealand Journal of Science* 26: p. 197–209.
- Gross, G. (1987): Der Flächenverlust der Gletscher in Österreich 1850–1920–1969. *Zeitschrift für Gletscherkunde und Glazialgeologie* 23 (2): p. 131–141.

- Grove, J.M. (2004): *Little Ice Ages: Ancient and modern*. Vol. I + II, 2nd edition. Routledge, London and New York.
- GTOS (2006): *Global Terrestrial Observing System Biennial Report 2004–2005*. GTOS-40.
- GTOS (2008): Terrestrial essential climate variables for climate change assessment, mitigation and adaptation. *GTOS-52*. <http://www.fao.org/gtos/doc/pub52.pdf>
- Gurney, S.D., Popovnin, V.V., Shahgedanova, M. and Stokes, C.R. (2008): A glacier inventory for the Buordakh Massif, Cherskiy Range, Northeast Siberia, and evidence for recent glacier recession. *Arctic, Antarctic and Alpine Research* 40 (1): p. 81–88.
- Haerberli, W. and Hoelzle, M. (1995): Application of inventory data for estimating characteristics of and regional climate-change effects on mountain glaciers: a pilot study with the European Alps. *Annals of Glaciology*, 21: p. 206–212.
- Haerberli, W. (1998): *Historical evolution and operational aspects of worldwide glacier monitoring. Into the second century of world glacier monitoring: prospects and strategies*. UNESCO, Paris, 56: p. 35–51.
- Haerberli, W., Cihlar, J. and Barry, R.G. (2000): Glacier monitoring within the Global Climate Observing System. *Annals of Glaciology* 31: p. 241–246.
- Haerberli, W. and Burn, C. (2002): Natural hazards in forests – glacier and permafrost effects as related to climate changes. In: Sidle, R.C. (ed.): *Environmental Change and Geomorphic Hazards in Forests. IUFRO Research Series* 9: p. 167–202.
- Haerberli, W. and Holzhauser, H. (2003): Alpine glacier mass changes during the past two millennia. *PAGES News* 11, No 1: p. 13–15.
- Haerberli, W. (2004): Glaciers and ice caps: historical background and strategies of world-wide monitoring. In: Bamber, J.L. and Payne, A.J. (eds.): *Mass balance of the cryosphere*. Cambridge University Press, Cambridge: p. 559–578.
- Haerberli, W. (2007): Changing views on changing glaciers. In: Orlove, B., Wiegandt, E. and Luckman, B. (eds.): *The darkening peaks: Glacial retreat in scientific and social context*. University of California Press: p. 23–32.
- Haerberli, W., Hoelzle, M., Paul, F. and Zemp, M. (2007): Integrated monitoring of mountain glaciers as key indicators of global climate change: the European Alps. *Annals of Glaciology* 46: p. 150–160.
- Hagen, J.O., Kohler, J., Melvold, K. and Winther, J.G. (2003): Glaciers in Svalbard: mass balance, runoff and fresh water flux. *Polar Research* 22 (2): p. 145–159.
- Hall, B. (2007): Late-Holocene advance of the Collins Ice Cap, King George Island, South Shetland Islands. *The Holocene*, 17: p. 1253–1258.
- Hamberg, A. and Mercanton, P.L. (1914): Les variations périodiques des glaciers. XI^{me} rapport 1913, *Zeitschrift für Gletscherkunde und Glazialgeologie*, 9: 42–65.
- Harper, A.P. (1894): The Franz Josef Glacier. Appendix to the *Journal of the House of Representatives of New Zealand* 1, C1, Appendix No 6: p. 75–79.
- Hastenrath, S. (1984): *The glaciers of equatorial East Africa*. Reidel, Dordrecht, Boston, Lancaster: 353 pp.
- Hastenrath, S. (2001): Variations of East African climate during the past two centuries. *Climate Change*, 50: p. 209–217.
- Hastenrath, S. and Polzin, D. (2004): Volume decrease of Lewis Glacier, Mount Kenya, 1978–2004. *Zeitschrift für Gletscherkunde und Glazialgeologie* 39: p. 133–139.
- Hastenrath, S. (2005): *Glaciological studies on Mount Kenya 1971–2005*. University of Wisconsin, Madison, USA: 220 pp.
- Hewitt, K. (2005): The Karakoram Anomaly? Glacier expansion and the 'elevation effect', Karakoram Himalaya. *Mountain Research and Development* 25 (4): p. 332–340.
- Higuchi, K., Iozawa, T., Fujii, Y. and Kodama, H. (1980): Inventory of perennial snow patches in Central Japan. *GeoJournal* 4 (4): p. 303–311.
- Hoelzle, M. and Trindler, M. (1998): Data management and application. In: Haerberli, W. (ed.): *Into the second century of world glacier monitoring: prospects and strategies*. UNESCO, Paris, 56: p. 53–72.
- Hoelzle, M., Haerberli, W., Dischl, M. and Peschke, W. (2003): Secular glacier mass balances derived from cumulative glacier length changes. *Global and Planetary Change* 36 (4): p. 77–89.
- Hoelzle, M., Chinn, T., Stumm, D., Paul, F., Zemp, M. and Haerberli, W. (2007): The application of glacier inventory data for estimating characteristics of and regional past climate-change effects on mountain glaciers: a comparison between the European Alps and the New Zealand Alps. *Global and Planetary Change* 56: p. 69–82.
- Holmlund, P. and Jansson, P. (2005): A re-analysis of the 58-year mass balance record of Storglaciären, Sweden. *Annals of Glaciology* 42 (1): p. 389–394.
- Huggel, C., Zraggen-Oswald, S., Haerberli, W., Kääb, A., Polkvoj, A., Galushkin, I. and Evans, S.G. (2005): The 2002 rock/ice avalanche at Kolka/Karmadon, Russian Caucasus: Assessment of extraordinary avalanche formation and mobility and application of QuickBird satellite imagery. *Natural Hazards and Earth System Sciences* 5: p. 173–187.
- Huggel, C., Ceballos, J.L., Ramírez, J., Pulgarín, B. and Thouret, J.C. (2007): Review and reassessment of hazards owing to volcano-ice interactions in Colombia. *Annals of Glaciology* 45: p. 128–136.
- Huss, M., Bauder, A., Funk, M., and Hock, R. (2008): Determination of the seasonal mass balance of four Alpine glaciers since 1865. *Journal of Geophysical Research*, 113, F01015, doi: 10.1029/2007JF000803.
- IGOS (2007): *Cryosphere theme report. International global observing strategy for the monitoring of our environment from space and earth*: 100 pp.
- Imbrie, J. and Imbrie, K.P. (1979): *Ice ages: solving the mystery*. Macmillan, London.
- IPCC (2007): *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* (eds.: Solomon, S., Qin, D., Manning, M., Chen, Z., Marquis, M.C., Averyt, K., Tignor, M., and Miller, H.L.). Intergovernmental Panel on Climate Change, Cambridge and New York.
- Jóhannesson, T., Raymond, C. and Waddington, E. (1989): Time-scale for adjustment of glaciers to changes in mass balance. *Journal of Glaciology* 35 (121): p. 355–369.
- Jones, H.G. (2008): From Commission to Association: the transition of the International Commission on Snow and Ice (ICSI) to the International Association of Cryospheric Sciences (IACS). *Annals of Glaciology*, 48: p. 1–5.
- Josberg, E.G., Bidlake, W.R., March, R.S. and Kennedy, B.W. (2007): Glacier mass-balance fluctuations in the Pacific Northwest and Alaska, USA. *Annals of Glaciology* 46: p. 291–296.
- Kääb, A., Paul, F., Maisch, M., Hoelzle, M. and Haerberli, W. (2002): The new remote-sensing-derived Swiss glacier inventory: II. First Results. *Annals of Glaciology* 34: p. 362–366.
- Kääb, A. (2005): Remote sensing of mountain glaciers and permafrost creep. *Schriftenreihe Physische Geographie*, University of Zurich, 48: 266 pp. http://folk.uio.no/kaeab/publications/habil_screen.pdf
- Kääb, A., Huggel, C., Fischer, L., Guex, S., Paul, F., Roer, I., Salzmann, N., Schlaefli, S., Schmutz, K., Schneider, D., Strozzii, T., and Weidmann, Y. (2005): Remote sensing of glacier- and permafrost-related hazards in high mountains: an overview. *Natural Hazards and Earth System Science*, 5, 527–554.
- Kamb, B., Raymond, C.F., Harrison, W.D., Engelhardt, H., Echelmeyer, K.A., Humphrey, N., Brugman, M.M. and Pfeffer, T. (1985): Glacier surge mechanism: 1982–1983 surge of Variegated Glacier, Alaska. *Science*, 227 (4686): p. 469–479.
- Kamb, B. (1987): Glacier surge mechanism based on linked cavity configuration of the basal water conduit system. *Journal of Geophysical Research*, B9: p. 9083–9100.
- Kargel, J.S., Abrams, M.J., Bishop, M.P., Bush, A., Hamilton, G., Jiskoot, H., Kääb, A., Kieffer, H.H., Lee, E.M., Paul, F., Rau, F., Raup, B., Schroder, J.F., Soltesz, D., Stearns, L., Wessels, R. and the GLIMS Consortium (2005): Multispectral imaging contributions to Global Land Ice Measurements from Space. *Remote Sensing of Environment* 99 (1/2): p. 187–219.
- Karma, Ageta, Y., Naito, N., Iwata, S. and Yabuki, H. (2003): Glacier distribution in the Himalayas and glacier shrinkage from 1963 to 1993 in the Bhutan Himalayas. *Bulletin of Glaciological Research* 20: p. 29–40.
- Kaser, G., and Osmaston, H. (2002): *Tropical Glaciers. UNESCO International Hydrological Series*, Cambridge University Press, Cambridge, UK: 207 pp.
- Kaser, G., Fountain, A., and Jansson, P. (2003): A manual for monitoring the mass balance of mountain glaciers with particular attention to low latitude characteristics. A contribution from the International Commission on Snow and Ice (ICSI) to the UNESCO HKH-Friend programme. IHP-VI, *Technical Documents in Hydrology*, No. 59, UNESCO, Paris: 107 pp. + Appendices.
- Kaser, G., Cogley, J.G., Dyurgerov, M.B., Meier, M.F. and Ohmura, A. (2006): Mass balance of glaciers and ice caps: Consensus estimates for 1961–2004. *Geophysical Research Letters* 33 (L19501), doi:10.1029/2006GL027511.
- Kaufmann, D.S., Porter, S.C. and Gillespie, A.R. (2004): Quaternary alpine glaciation in Alaska, the Pacific Northwest, Sierra Nevada, and Hawaii. In: Gillespie, A.R., Porter, S.C. and Atwater, B.F. (eds.): *The Quaternary period in the United States*. Elsevier, Amsterdam.
- Klein, A.G. and Kincaid, J.L. (2006): Retreat of glaciers on Puncak Jaya, Irian Jaya, determined from 2000 and 2002 IKONOS satellite images. *Journal of Glaciology* 52 (176): p. 65–179.
- Klein, A.G. and Kincaid, J.L. (2008): On the disappearance of the Puncak Mandala ice cap, Papua. *Journal of Glaciology* 54 (184): p. 195–197.
- Koch, J. and Clague, J.J. (2006): Are insolation and sunspot activity the primary drivers of Holocene glacier fluctuations? *PAGES News* 14 (3): p. 20–21.
- Koerner, R.M. (2005): Mass balance of glaciers in the Queen Elizabeth Islands, Nunavut, Canada. *Annals of Glaciology* 42 (1): p. 417–423.
- Kotlyakov, V.M., Serabryanny, L.R. and Solomina, O.N. (1991): Climate change and glacier fluctuations during the last 1000 years in the southern mountains of the USSR. *Mountain Research and Development* 11: p. 1–12.
- Kotlyakov, V.M. et al. (2006): *Glaciation in North and Central Eurasia at present time*. Nauka, Moscow (in Russian with abstract in English).
- Kotlyakov, V.M., Osipova, G.B. and Tsvetkov, D.G. (2008): Monitoring surging glaciers of the Pamirs, central Asia, from space. *Annals of Glaciology* 48: p. 125–134.
- Kouraev, A.V., Legrésy, B. and Rémy, F. (2008): Northern Novaya Zemlya outlet glaciers: 1990–2000 changes. In: WGMS (2008): *Fluctuations of Glaciers 2000–2005* (Vol. IX). World Glacier Monitoring Service, Zurich.
- Kuhn, M. (1981): *Climate and glaciers*. IAHS, 131: p. 3–20.
- Kuhn, M., Markl, G., Kaser, G., Nickus, U. and Obleitner, F. (1985): Fluctuations of climate and mass balance. Different responses of two adjacent glaciers. *Zeitschrift für Gletscherkunde und Glazialgeologie* 2: p. 409–416.
- Kuhn, M., Dreiseitl, E., Hofinger, S., Markl, G., Span, N. and Kaser, G. (1999): Measurements and models of the mass balance of Hintereisferner. *Geografiska Annaler* A81 (4): p. 659–670.
- Kutuzov, S. (2005): The retreat of Tien Shan glaciers since the Little Ice Age obtained from the moraine positions, aerial photographs and satellite images. In: PAGES Second Open Science Meeting 10–12 August 2005, Beijing, China.
- LaChapelle, E.R. (1960): Recent glacier variations in western Washington. *Journal of Geophysical Research* 65 (8): p. 2505–2509.
- Larsen, C. F., Motyka, R.J., Arendt, A.A., Echelmeyer, K.A. and Geissler, P.E. (2007): Glacier changes in southeast Alaska and northwest British Columbia and contribution to sea level rise. *Journal of Geophysical Research* 112, F01007, doi: 10.1029/2006JF000586.
- Li, X., Cheng, G., Jin, H., Kang, E., Che, T., Jin, R., Zongwu, L., Nan, Z., Wang, J. and Shen, Y. (in press): Distribution and changes of glaciers, snow and permafrost in China. Proceedings of workshop on 'Assessment of Snow, Glacier and Water Resources in Asia', Almaty, KZ, 2006. UNESCO.
- Lillesand, T.M. and Kiefer, R.W. (1994): *Remote sensing and image interpretation*. 3rd edition, Wiley & Sons, Inc., New York, Chichester, Brisbane, Toronto, Singapore: 750 pp.
- Lingle, C.S. and Fatland, D.R. (2003): Does englacial water storage drive temperate glacier surges? *Annals of Glaciology* 36, 1: p. 14–20.
- Lliboutry, L. (1974): Multivariate statistical analysis of glacier annual balance. *Journal of Glaciology* 13: p. 371–392.
- Luckman, B.H. (2000): The Little Ice Age in the Canadian Rockies. *Geomorphology* 32 (3–4): p. 357–384.
- Luckman, B.H. (2006): The Neoglacial History of Peyto Glacier. In: Demuth, M.N., Munro, D.S. and Young, G.J. (eds.): *Peyto Glacier: One Century of Science. National Hydrology Research Institute Science Report* 8: p. 25–57.
- Lythe, M.B., Vaughan, D.G. and the BEDMAP Group (2001): BEDMAP: A new ice thickness and subglacial topographic model of Antarctica. *Journal of Geophysical Research* 106 (B6): p. 11335–11351.
- Maisch, M., Wipf, A., Denneler, B., Battaglia, J. and Benz, C. (2000): Die Gletscher der Schweizer Alpen. Gletscherhochstand 1850, Aktuelle Vergletscherung, Gletscherschwund Szenarien. Schlussbericht NFP31. 2. Auflage, VdF Hochschulverlag, Zürich.
- McCabe, G. J., Fountain, A.G. and Dyurgerov, M. (2000): Variability in winter mass balance of Northern Hemisphere glaciers and relations with atmospheric circulation. *Arctic, Antarctic and Alpine Research* 32 (1): p. 64–72.
- Meier, M.F. (1984): The contribution of small glaciers to sea level rise. *Science* 226: p. 1418–1421.

- Mercanton, P.L. (1930): Rapport sur les variations de longueur des glaciers de 1913 à 1928. Chaîne des Alpes; Scandinavie. *IAHS* 14: 53 pp.
- Mercanton, P.L. (1934): Rapport sur les variations de longueur des glaciers de 1928 à 1931. Chaîne des Alpes; Scandinavie. *IAHS* 20: p. 229–250.
- Mercanton, P.L. (1936): Rapport sur les variations de longueur des glaciers de 1931 à 1935. Chaîne des Alpes; Scandinavie et Islande. *IAHS* 22: p. 430–456.
- Mercanton, P.L. (1948): Rapport sur les variations de longueur des glaciers de 1935 à 1946. Alpes françaises, suisses, italiennes et autrichiennes. Variations des glaciers en Suède, Islande et Norvège. *IAHS* 30: p. 233–256.
- Mercanton, P.L. (1952): Rapport sur les variations de longueur des glaciers européens, de 1947 à 1950. *IAHS* 32: p. 107–119 (Paris).
- Mercanton, P.L. (1954): Rapport sur les variations de longueur des glaciers européens, en 1950–51, 1951–52, 1952–53. *IAHS* 32: p. 478–490.
- Mercanton, P.L. (1958): Rapport sur les variations de longueur des glaciers européens, en 1953/54, 1954/55, 1955/56. *IAHS* 46: p. 358–371.
- Mercanton, P.L. (1961): Rapport sur les variations de longueur des glaciers européens, en 1956/57, 1957/58, 1958/59. *IAHS* 54: p. 366–378.
- Milana, J.P. (2007): A model of the Glaciar Horcones Inferior surge, Aconcagua region, Argentina. *Journal of Glaciology* 53 (183): p. 565–572.
- Milankovitch, M. (1930): Mathematische Klimalehre und astronomische Theorie der Klimaschwankungen, Borntraeger, Berlin.
- Molnia, B.F. (2007): Late nineteenth to early twenty-first century behaviour of Alaskan glaciers as indicators of changing regional climate. *Global and Planetary Change* 56: p. 23–56.
- Moore, R.D. and Demuth, M.N. (2001): Mass balance and streamflow variability at Place Glacier, Canada, in relation to recent climate fluctuations. *Hydrological Processes* 15, 3: p. 473–486.
- Müller, H. and Kappenberger, G. (1991): Claridenfirn-Messungen 1914–1984. 40, ETH Zürich.
- Nakawo, M., Raymond, F.C. and Fountain, A. (2000): Debris-covered glaciers. *IAHS publication* 264: 288 pp.
- Narama, C., Shimamura, Y., Nakayama, D. and Abdrakhmatov, K. (2006): Recent changes of glacier coverage in the Western Terskey-Atatoo Range, Kyrgyz Republic, using Corona and Landsat. *Annals of Glaciology* 43 (6): p. 223–229.
- Naranjo, J.L., Sigurdsson, H., Carey, S.N., and Fritz, W. (1986): Eruption of the Nevado del Ruiz Volcano, Colombia, on 13 November 1985: Tephra fall and lahars. *Science* 233, 4767: p. 961–963.
- Naruse, R. (2006): The response of glaciers in South America to environmental change. In: Knight, P.G. (ed.): *Glacier Science and Environmental Change*. Blackwell, Oxford.
- Nesje, A., Lie, O. and Dahl, S.O. (2000): Is the North Atlantic Oscillation reflected in Scandinavian glacier mass balance records? *Journal of Quaternary Science* 15 (6): p. 587–601.
- Nesje, A., Bakke, J., Dahl, S.O., Lie, O. and Matthews, J.A. (2008): Norwegian mountain glaciers in the past, present and future. *Global and Planetary Change* 60 (1–2): p. 10–27.
- NSIDC (2008): World glacier inventory. Data Set Documentation. World Glacier Monitoring Service and National Snow and Ice Data Center/World Data Center for Glaciology. Boulder, CO. Digital media (last visit on May 12, 2008): http://nsidc.org/data/docs/noaa/g01130_glacier_inventory/.
- Nye, J.F. (1960): The response of glaciers and ice-sheets to seasonal and climatic changes. *Proceedings of the Royal Society of London, A* (256): p. 559–584.
- Oerlemans, J. (2001): *Glaciers and climate change*. A.A. Balkema Publishers. Lisse, Abingdon, Exton, Tokyo: 148 pp.
- Ohmura, A. (2001): Physical basis for the temperature-based melt-index method. *Journal of Applied Meteorology* 40: p. 753–761.
- Ohmura, A. (2004): Cryosphere during the twentieth century. In: Sparling, J.Y. and C.J. Hawkesworth (eds.): *The state of the planet: frontiers and challenges in geophysics*. Washington DC, American Geophysical Union: p. 239–257.
- Ohmura, A. (2006): Changes in mountain glaciers and ice caps during the 20th century. *Annals of Glaciology* 43: p. 361–368.
- Ohmura, A., Bauder, A., Müller-Lemans, H. and Kappenberger, G. (2007): Long-term change of mass balance and the role of radiation. *Annals of Glaciology* 46: p. 367–374.
- Østrem, G. and Stanley, A. (1969): *Glacier mass balance measurements. A manual for field and office work*. Canadian Department of Energy, Mines and Resources, Norwegian Water Resources and Electricity Board: 125 pp.
- Østrem, G., Haakensen, M., and Melander, O. (1973): Atlas over breer i Nord-Skandinavia. Hydrologisk avdeling, Norges Vassdrags-og Energiverk, Meddelelse, 22: 315 pp.
- Østrem, G., Selvig, K.D. and Tandberg, K. (1988): Atlas over breer i Sør-Norge. Oslo, Norges Vassdrags-og Energiverk Vassdragsdirektoret.
- Østrem, G. and Haakensen, M. (1993): Glaciers of Norway. In: USGS (in prep.): *Satellite image atlas of glaciers of the world*. Williams, R.S. and Ferrigno, J.G. (eds.), U. S. Geological Survey. Professional Paper, 1386-E-3: 53 pp.
- Østrem, G. and Brugman, M. (1991): Glacier mass-balance measurements: a manual for field and office work. National Hydrology Research Institute Science Report No. 4, Minister of Supply and Service, Canada, Saskatoon: 224 pp.
- Padma Kumari, B., Londhe, A.L., Daniel, S. and Jadhav, D.B. (2007): Observational evidence of solar dimming: Offsetting surface warming over India. *Geophysical Research Letters*, 34 (L21810): doi:10.1029/2007GL031133.
- Paterson, W.S.B. (1994): *The physics of glaciers*. 3rd edition, Pergamon Press, Oxford: 480 pp.
- Patzelt, G. (1985): The period of glacier advances in the Alps, 1965 to 1980. *Zeitschrift für Gletscherkunde und Glazialgeologie* 21: p. 403–407.
- Paul, F., Kääb, A., Maisch, M., Kellenberger, T. and Haeberli, W. (2002): The new remote-sensing-derived Swiss Glacier Inventory: I. Methods. *Annals of Glaciology* 34: p. 355–361.
- Paul, F., Kääb, A., Maisch, M., Kellenberger, T.W. and Haeberli, W. (2004): Rapid disintegration of Alpine glaciers observed with satellite data. *Geophysical Research Letters* 31, L21402, doi:10.1029/2004GL020816.
- Paul, F. and Kääb, A. (2005): Perspectives on the production of a glacier inventory from multispectral satellite data in Arctic Canada: Cumberland Peninsula, Baffin Island. *Annals of Glaciology* 42 (1): p. 59–66.
- Paul, F., Kääb, A. and Haeberli, W. (2007): Recent glacier changes in the Alps observed from satellite: Consequences for future monitoring strategies. *Global and Planetary Change* 56 (1–2): p. 111–122.
- Pelfini, M. and Smiraglia, C. (1988): L'evoluzione recente del glacialismo sulle Alpi Italiani: strumenti e temi di ricerca. *Bollettino della Società Geografica Italiana*, 1–3: p. 127–154.
- Peterson, J.A., Hope, G.S., and Mitton, R. (1973): Recession of snow and ice fields of Irian Jaya, Republic of Indonesia. *Zeitschrift für Gletscherkunde und Glazialgeologie* 9, 1–2: p. 73–87.
- Podrezov, O., Dikikh, A. and Bakirov, K. (2002): Variability in the climatic conditions and glacier of Tien Shan in the past 100 years. Kyrgyz Russian Slavic University, Bishkek (in Russian).
- PSFG (1967): *Fluctuations of Glaciers 1959–1965*, Vol. I. P. Kasser (ed.), IAHS (ICSI) and UNESCO, Permanent Service on Fluctuations on Glaciers, Paris: 52 pp.
- PSFG (1973): *Fluctuations of Glaciers 1965–1970*, Vol. II. P. Kasser (ed.), IAHS (ICSI) and UNESCO, Permanent Service on Fluctuations on Glaciers, Paris: 357 pp.
- PSFG (1977): *Fluctuations of Glaciers 1970–1975*, Vol. III. F. Müller (ed.), IAHS (ICSI) and UNESCO, Permanent Service on Fluctuations on Glaciers, Paris: 269 pp.
- PSFG (1985): *Fluctuations of Glaciers 1975–1980*, Vol. IV. W. Haeberli (ed.), IAHS (ICSI) and UNESCO, Permanent Service on Fluctuations on Glaciers, Paris: 265 pp.
- Rabot, C. and Muret, E. (1911): Les variations périodiques des glaciers. XVIII^{me} Rapport, 1910. *Zeitschrift für Gletscherkunde und Glazialgeologie* VI: p. 81–103.
- Rabot, C. and Muret, E. (1912): Les variations périodiques des glaciers. XVII^{me} Rapport, 1911. *Zeitschrift für Gletscherkunde und Glazialgeologie* VII: p. 37–47.
- Rabot, C. and Mercanton, P.L. (1913): Les variations périodiques des glaciers. XVIII^{me} Rapport, 1912. *Zeitschrift für Gletscherkunde und Glazialgeologie* VIII: p. 81–103.
- Rabot, C. and Muret, E. (1913): Supplément au XVIII^{me} rapport sur les variations périodiques des glaciers, 1911. *Zeitschrift für Gletscherkunde und Glazialgeologie* VII: p. 191–202.
- Radok, U. (1997): The International Commission on Snow and Ice (ICSI) and its precursors, 1984–1994. *Hydrological Sciences* 42 (2): p. 131–140.
- Radok, V. and Watts, D. (1975): A synoptic background to glacier variations of Heard Island. *IAHS* 104: p. 42–56.
- Rau, F., Mauz, F., De Angelis, H., Jaña, R., Arigony Neto, J., Skvarca, P., Vogt, S., Saurer, H. and Gossmann, H. (2004): Variations of glacier frontal positions on Northern Antarctic Peninsula. *Annals of Glaciology* 39: p. 525–530.
- Raup, B.H., Kääb, A., Kargel, J.S., Bishop, M.P., Hamilton, G., Lee, E., Paul, F., Rau, F., Soltész, D., Khalsa, S.J.S., Beedle, M. and Helm, C. (2007): Remote Sensing and GIS technology in the Global Land Ice Measurements from Space (GLIMS) Project. *Computers and Geosciences* 33: p. 104–125.
- Reid, H. and Muret, E. (1904): Les variations périodiques des glaciers. IX^{me} Rapport, 1903. Extrait des Archives des Sciences physiques et naturelles 109/4 (18), Genève: p. 160–195.
- Reid, H. and Muret, E. (1905): Les variations périodiques des glaciers. X^{me} Rapport, 1904. Extrait des Archives des Sciences physiques et naturelles 110/4 (20), Genève: p. 62–74.
- Reid, H. and Muret, E. (1906): Les variations périodiques des glaciers. XI^{me} Rapport, 1905. *Zeitschrift für Gletscherkunde und Glazialgeologie* I: p. 1–21.
- Reinwarth, O. and Stäblein, G. (1972): Die Kryosphäre - das Eis der Erde und seine Untersuchung. *Würzburger Geographische Arbeiten* 36: 71 pp.
- Reynolds, J.M. (2000): On the formation of supraglacial lakes on debris-covered glaciers. In: *Debris-Covered Glaciers*: p. 153–161.
- Richter, E. (1898): Les variations périodiques des glaciers. III^{me} Rapport, 1897. Extrait des Archives des Sciences physiques et naturelles 103/4 (6), Genève: p. 22–55.
- Richter, E. (1899): Les variations périodiques des glaciers. IV^{me} Rapport, 1898. Extrait des Archives des Sciences physiques et naturelles 104/4 (8), Genève: p. 31–61.
- Richter, E. (1900): Les variations périodiques des glaciers. V^{me} Rapport, 1899. Extrait des Archives des Sciences physiques et naturelles 105/4 (10), Genève: p. 26–45.
- Rignot, E., Rivera, A. and Casassa, G. (2003): Contribution of the Patagonia icefields of South America to sea level rise. *Science* 302: p. 434–437.
- Rivera, A., Benham, T., Casassa, G., Bamber, J. and Dowdeswell, J. (2007): Ice elevation and areal changes of glaciers from the Northern Patagonia icefield, Chile. *Global and Planetary Change* 59: p. 126–137.
- Rott, H., Rack, W., Skvarca, P. and De Angelis, H. (2002): Northern Larsen Ice Shelf - Further retreat after the collapse. *Annals of Glaciology* 34: p. 277–282.
- Ruddell, A. (2006): An inventory of present glaciers on Heard island and their historical variation. In: Green, K. and Woehler, E. (eds.): *Heard Island: Southern Ocean Sentinel*. Surrey Beatty & Sonse, Chipping Norton NSW: p. 28–51.
- Ruddiman, W.F. (2000): Earth's climate: past and future. Freeman, New York.
- Ruddiman, W.F. (2003): The anthropogenic greenhouse era began thousands of years ago. *Climate Change* 61 (3): p. 261–293.
- Schöner, W., Auer, I. and Böhm, R. (2000): Climate variability and glacier reaction in the Austrian eastern Alps. *Annals of Glaciology* 31 (1): p. 31–38.
- Sigurdsson, O., Jónsson, T. and Jóhannesson, T. (2007): Relation between glacier-termini variations and summer temperature in Iceland since 1930. *Annals of Glaciology* 46 (1): p. 170–176.
- Shahgedanova, M., Stokes, C.R., Khromova, T., Nosenko, G., Popovnin, V., Narozhny, Y., Aleynikov, A. and Muraveyev, A. (2008): State of glaciers in the Caucasus and southern Siberian mountains and their links with climate oscillations since the 1950s. *Geophysical Research Abstracts*, Vol. 10, EGU2008-A-10158.
- Shroder, J., Bishop, M., Haritashya, U., Olsenholler, J., Bulley, H. and Sartan, J. (2006): Glacier Debris Cover Variation in the Hindu Kush and Karakoram Himalaya. American Geophysical Union, Fall Meeting 2006, abstract #H53B-0632.
- Shumskii, P.A. (1964): *Principles of structural glaciology*. Translated from the Russian by D. Kraus. Dover Publications Inc., New York: 497 pp.
- Shumsky, P.A. (1969): Glaciation. In: Tolstikov, E. (ed.): *Atlas of Antarctica*, Vol. 2, Leningrad: p. 367–400.
- Sicart, J.E., Wagnon, P. and Ribstein, P. (2005): Atmospheric controls of the heat balance of Zongo Glacier (16°S, Bolivia). *Journal of Geophysical Research*, 110, D12106, doi:10.1029/2004JD005732.
- Skvarca, P. and De Angelis, H. (2003): Impact assessment of regional climatic warming on glaciers and ice shelves of the northeastern Antarctic Peninsula. *Antarctic Research Series* 79: p. 69–78.

- Skvarca, P., De Angelis, H. and Ermolin, E. (2004): Mass-balance of „Glaciar Bahiá del Diablo“, Vega Island, Antarctic Peninsula. *Annals of Glaciology* 39: p. 209-213.
- Solanki, S.K., Usoskin, I.G., Kromer, B., Schüssler, M. and Beer, J. (2004): Unusual activity of the sun during recent decades compared to the previous 11,000 years. *Nature* 431: p. 1084-1087.
- Solomina, O. (1996): Glaciers recession in the mountains of the former USSR after the maximum of the Little Ice Age: Time and scale. In: The proceedings of Meeting of the Work Group on Geospatial Analysis of Glaciated Environments. International Union for Quaternary Research, Dublin.
- Solomina, O. (2000): Retreat of mountain glaciers of northern Eurasia since the Little Ice Age maximum. *Annals of Glaciology* 31: p. 26-30.
- Solomina, O., Haeberli, W., Kull, C. and Wiles, G. (2008): Historical and Holocene glacier-climate variations: General concepts and overview. *Global and Planetary Change* 60 (1-2): p. 1-9.
- Stokes, C.R., Popovnin, V., Aleynikov, A., Gurney, S.D. and Shahgedanova, M. (2007): Recent glacier retreat in the Caucasus Mountains, Russia, and associated increase in supraglacial debris cover and supra-/proglacial lake development. *Annals of Glaciology* 46: p. 195-203.
- Su, Z. and Shi, Y. (2002): Response of monsoonal temperature glaciers to global warming since the Little Ice Age. *Quaternary International* 97 (98): p. 123-131.
- Svendsen, J.I. and Mangerud, J. (1997): Holocene glacial and climatic variations on Spitsbergen, Svalbard. *Holocene* 7: p. 45-57.
- Swithinbank, C. (1988): Satellite image atlas of glaciers of the world. Antarctica. *U.S. Geological Survey, Professional Papers* 1386-B: p. 1-138.
- Thost, D.E. and Truffer, M. (2008): Glacier recession on Heard Island, Southern Indian Ocean. *Arctic, Antarctic and Alpine Research* 40 (1): p. 199-214.
- Tomlinson, A., and Sanson, J. (1994): Rainfall normals for NZ. For the period 1961 to 1990. *NIWA Science and Technology Series* No. 3.
- Trabant, D.C., March, R.S. and Molnia, B.F. (2002): Growing and Advancing Calving Glaciers in Alaska. American Geophysical Union, Fall Meeting 2002, abstract #C62A-0913.
- Troll, C. (1973): High mountain belts between the polar caps and the Equator: their definition and lower limit. *Arctic and Alpine Research* 5, 3: p. A19-A27.
- UNEP (2007): *Global outlook for ice & snow*. UNEP/GRID-Arendal, Norway: 235 pp.
- UNESCO (1970): Perennial ice and snow masses. A guide for compilation and assemblage of data for a World Glacier Inventory, UNESCO/IAHS Technical Papers in Hydrology, Zurich.
- USGS (in prep.): Satellite image atlas of glaciers of the world. Williams, R.S. and Ferrigno, J.G. (eds.), U.S. Geological Survey Professional Papers.
- Van der Veen, C.J. (1996): Tidewater calving. *Journal of Glaciology* 42 (141): p. 375-385.
- Villalba, R. (1994): Tree-ring and glacial evidence for the Medieval Warm Epoch and the Little Ice Age in southern South America. *Climatic Change* 26: p. 183-197.
- Vincent, C. (2002): Influence of climate change over the 20th century on four French glacier mass balances. *Journal of Geophysical Research* 107, No. D19, 4375, doi:10.1029/2001JD000832.
- Vincent, C., Le Meur, E., Six, D. and Funk, M. (2005): Solving the paradox of the end of the Little Ice Age in the Alps. *Geophysical Research Letters* 32, L09706: doi:10.1029/2005GL022552.
- Volden, E. (2007): ESA's GlobGlacier project. *Ice and Climate News* 9: p. 5.
- Wagnon, P., Ribstein, P., Francou, B. and Sicart, J.E. (2001): Anomalous heat and mass budget of Glaciar Zongo, Bolivia during the 1997/98 El Niño year. *Journal of Glaciology* 47 (156): p. 21-28.
- Weidick, A. (1968): Observations on some Holocene glacier fluctuations in West Greenland. *Meddelelser om Grønland* 165 (6): p. 1-202.
- Weidick, A. and Morris, E. (1998): Local glaciers surrounding continental ice sheets. In: Haeberli, W., Hoelzle, M. and Suter, S. (eds.): Into the second century of world glacier monitoring – prospects and strategies. A contribution to the IHP and the GEMS. Prepared by the World Glacier Monitoring Service, UNESCO Publishing: p. 197-207.
- Wessels, R., Kargel, J.S. and Kieffer, H.H. (2002): ASTER measurements of supraglacial lakes in the Mount Everest region of the Himalaya. *Annals of Glaciology* 34: p. 399-408.
- WGMS (1988): *Fluctuations of Glaciers* 1980-1985 (Vol. V). Haeberli, W. and Müller, P. (eds.), IAHS(ICSU)/UNEP/UNESCO, World Glacier Monitoring Service, Paris: 290 pp.
- WGMS (1989): *World glacier inventory - status 1988*. Haeberli, W., Bösch, H., Scherler, K., Østrem, G. and Wallén, C. C. (eds.), IAHS(ICSU)/UNEP/UNESCO, Nairobi: 458 pp.
- WGMS (1991): *Glacier Mass Balance Bulletin* No. 1. (1988-1989). Haeberli, W. and Herren, E. (eds.), IAHS(ICSU)/UNEP/UNESCO, World Glacier Monitoring Service, Zurich: 70 pp.
- WGMS (1993a): *Fluctuations of Glaciers* 1985-1990 (Vol. VI). Haeberli, W. and Hoelzle, M. (eds.), IAHS(ICSU)/UNEP/UNESCO, World Glacier Monitoring Service, Paris: 322 pp.
- WGMS (1993b): *Glacier Mass Balance Bulletin* No. 2 (1990-1991). Haeberli, W., Herren, E. and Hoelzle, M. (eds.), IAHS(ICSU)/UNEP/UNESCO, World Glacier Monitoring Service, Zurich: 74 pp.
- WGMS (1994): *Glacier Mass Balance Bulletin* No. 3 (1992-1993). Haeberli, W., Hoelzle, M. and Bösch, H. (eds.), IAHS(ICSU)/UNEP/UNESCO, World Glacier Monitoring Service, Zurich: 80 pp.
- WGMS (1996): *Glacier Mass Balance Bulletin* No. 4 (1994-1995). Haeberli, W., Hoelzle, M. and Suter, S. (eds.), IAHS(ICSU)/UNEP/UNESCO, World Glacier Monitoring Service, Zurich: 90 pp.
- WGMS (1998): *Fluctuations of Glaciers* 1990-1995 (Vol. VII). Haeberli, W., Hoelzle, M., Suter, S. and Frauenfelder, R. (eds.), IAHS(ICSU)/UNEP/UNESCO, World Glacier Monitoring Service, Paris: 296 pp.
- WGMS (1999): *Glacier mass balance bulletin* No. 5 (1996-1997). Haeberli, W., Hoelzle, M. and Frauenfelder, R. (eds.), IAHS(ICSU)/UNEP/UNESCO, World Glacier Monitoring Service, Zurich: 96 pp.
- WGMS (2001): *Glacier Mass Balance Bulletin* No. 6 (1998-1999). Haeberli, W., Frauenfelder, R. and Hoelzle, M. (eds.), IAHS(ICSU)/UNEP/UNESCO/WMO, World Glacier Monitoring Service, Zurich: 93 pp.
- WGMS (2003): *Glacier Mass Balance Bulletin* No. 7 (2000-2001). Haeberli, W., Frauenfelder, R., Hoelzle, M. and Zemp, M. (eds.), IAHS(ICSU)/UNEP/UNESCO/WMO, World Glacier Monitoring Service, Zurich: 87 pp.
- WGMS (2005a): *Fluctuations of Glaciers* 1995-2000 (Vol. VIII). Haeberli, W., Zemp, M., Frauenfelder, R., Hoelzle, M. and Kääh, A. (eds.), IUGG(CCS)/UNEP/UNESCO, World Glacier Monitoring Service, Paris. 288 pp.
- WGMS (2005b): *Glacier Mass Balance Bulletin* No. 8 (2002-2003). Haeberli, W., Noetzli, J., Zemp, M., Baumann, S., Frauenfelder, R. and Hoelzle, M. (eds.), IUGG(CCS)/UNEP/UNESCO/WMO, World Glacier Monitoring Service, Zurich: 100 pp.
- WGMS (2007): *Glacier Mass Balance Bulletin* No. 9 (2004-2005). Haeberli, W., Hoelzle, M. and Zemp, M. (eds.), ICSU(FAGS)/IUGG(IACS)/UNEP/UNESCO/WMO, World Glacier Monitoring Service, University of Zurich: 100 pp.
- WGMS (2008): *Fluctuations of glaciers* 2000-2005 (Vol. IX). Haeberli, W., Zemp, M. and Hoelzle, M. (eds.), ICSU(FAGS)/IUGG(IACS)/UNEP/UNESCO/WMO, World Glacier Monitoring Service, University of Zurich.
- White, S.E. (2002): Glaciers of México. In: USGS (in prep.): Satellite image atlas of glaciers of the world. Williams, R.S. and Ferrigno, J.G. (eds.), *U.S. Geological Survey Professional Paper* 1386-J-3: p. 383-404.
- Wild, M., Ohmura, A. and Makowski, K. (2007): Impact of global dimming and brightening on global warming. *Geophysical Research Letters* 34(L04702): doi:10.1029/2006GL028031.
- Williams, R.S. and Ferrigno, J.G. (2002): Glaciers of Canada – Introduction. In: Satellite image atlas of glaciers of the world – Glaciers of North America. U.S. Geological Survey Professional Paper 1386-J-1.
- Winkler, S. (2004): Lichenometric dating of the 'Little Ice Age' maximum in Mt. Cook National Park, Southern Alps, New Zealand. *Holocene* 14 (6): p. 911-920.
- Yablokov, A. (2006): Climate change impacts on the glaciation in Tajikistan. In: Assessment report for the Second National Communication of the Republic of Tajikistan on climate change. Tajik Met. Service, Dushanbe (in Russian).
- Zeeberg, J.J. and Forman, S.L. (2001): Changes in glacier extent on north Novaya Zemlya in the twentieth century. *The Holocene* 11 (2): p. 161-175.
- Zemp, M., Frauenfelder, R., Haeberli, W. and Hoelzle, M. (2005): World-wide glacier mass balance measurements: general trends and first results of the extraordinary year 2003 in Central Europe. *Data of Glaciological Studies [Materialiy glyatsiologicheskikh issledovaniy]*, 99, Moscow, Russia: p. 3-12.
- Zemp, M., Haeberli, W., Hoelzle, M. and Paul, F. (2006): Alpine glaciers to disappear within decades? *Geophysical Research Letters* 33, L13504, doi:10.1029/2006GL026319.
- Zemp, M., Haeberli, W., Bajracharya, S., Chinn, T.J., Fountain, A.G., Hagen, J.O., Huggel, C., Kääh, A., Kaltenborn, B.P., Karki, M., Kaser, G., Kotlyakov, V.M., Lambrechts, C., Li, Z.Q., Molnia, B.F., Mool, P., Nellemann, C., Novikov, V., Osipova, G.B., Rivera, A., Shrestha, B., Svoboda, F., Tsvetkov D.G. and Yao, T.D. (2007a): Glaciers and ice caps. Part I: Global overview and outlook. Part II: Glacier changes around the world. In: UNEP: *Global outlook for ice & snow*. UNEP/GRID-Arendal, Norway: p. 115-152.
- Zemp, M., Paul, F., Hoelzle, M. and Haeberli, W. (2007b): Glacier fluctuations in the European Alps 1850-2000: an overview and spatio-temporal analysis of available data. In: Orlove, B., Wiegandt, E. and B. Luckman (eds.): *The darkening peaks: Glacial retreat in scientific and social context*. University of California Press: p. 152-167.