

PROGRAMME OF SESSIONS

MONDAY, 5 SEPTEMBER 2005

Climate and environment records from ice cores

- Yao T., Wen L., L.G. Thompson, E. Mosley-Thompson, Tian L., Wang N. and Duan K.: $\delta^{18}\text{O}$ record in Tibetan ice core reveals differences in climatic changes
- Xiang S., Yao T., Wu G., An L., Chen Y., Shang T., Pu L. and Zhang X.: Bacterial populations within the Muztag Ata Mountain Glacier correlate with climatic and environmental changes
- M. Schwikowski, S. Brütsch, G. Casassa and A. Rivera: A potential high-elevation ice core site at the Southern Patagonian Icefield
- D. Bolius, M. Schwikowski, T. Jenk, H.W. Gäggeler and G. Casassa: A first shallow firn core record from Glacier La Ollada on Cerro Mercedario in the Central Argentinian Andes
- Han J., M. Nakawo, K. Goto-Azuma and Lu C.: Impact of air burden fine dust on mass balance of high mountainous glaciers
- Wang, N., Yao, T., L.G. Thompson and M.E. Davis: Strong negative correlation between dust event frequency and air temperature over the Northern Tibetan Plateau reflected by the Malan ice core record
- M.E. Davis and L.G. Thompson: An Andean ice core record of a Middle Holocene Mega-Drought in North Africa and the Middle East
- E. Mosley-Thompson, L.G. Thompson and Lin Ping-nan: A multi-century ice core perspective on 20th century climate with new contributions from high Arctic and Greenland PARCA cores
- V.B. Aizen, E.M. Aizen, D.I. Joswiak, K.Fujita, L.N. Takeuchi, K.J. Kreutz and S.A. Nikitin: Climatic and atmospheric circulation pattern variability from ice-core isotope/geochemistry records (Altai, Tien Shan and Tibet)
- L.G. Thompson, Yao T., M.E. Davis, E. Mosley-Thompson, Lin P.-N., T.A. Mashiotta, V.N. Mikhalenko and V.S. Zagorodnov: Holocene climate variability archived in the Puruogangri ice cap from the central Tibetan Plateau
- Wang Y., Yao T., Wang N., Tian L. and Pu J.: Influence of the Indian Monsoon on the $\delta^{18}\text{O}$ recorded in the Malan ice core on the Tibetan Plateau
- Kang S., Qin D., P.A. Mayewski, S. Kaspari, Ren J. and Hou S.: Climatological significance of ice core δD records from the Mt Nyainqentanglha, southern Tibetan Plateau
- J. Uetake, S. Kohshima, F. Nakazawa, K. Suzuki, M. Kohno, T. Kameda, S. Alkhipov and Y. Fujii: Biological ice core analysis in the Sofiyskiy Glacier, Altai mountains, Russia
- T. Segawa, N. Takeuchi and S. Kohshima: Altitudinal change in bacterial flora on the Gulkana Glacier, Alaska, analyzed by 16S rRNA gene
- Kumiko Goto-Azuma, Takayuki Shiraiwa, Sumito Matoba, Takahiro Segawa, Syosaku Kanamori, Yoshiyuki Fujii and David A. Fisher: A 100-year ice core record from King Col, Mount Logan, Canada

TUESDAY, 6 SEPTEMBER 2005

Glacier variations

- Shangguan Donghui, Liu S., Ding Y., Ding L., Xiong L., Li Gang, Lu A., Zhang S. and Zhang Y.: Monitoring the glacier changes in the Muztag Ata and Konggur Mountains on the east Pamirs plateau with CBI and Landsat TM/ETM⁺
- Gou Xiaohua, Chen F. and Yang M.: The tree-ring records and glacier variations in the northeastern Tibetan Plateau
- Liu S., Ding Y., Shangguan D., Zhang Y., Li J., Han H., Wang J. and Xie C.: Glacier retreat under a warming and wetting change of climate in the Tarim River Basin, northwest China
- Koji Fujita: Vulnerable Himalayan glaciers
- Ding Y. and Liu S.: The retreat response of glaciers to recent climate warming in the western China
- Shi Yafeng, Liu Shiyin and Shangkuan Donghui: Two peculiar phenomena on climatic and glacial variation in the Tibetan Plateau
- A. Lambrecht, R. Würlländer and M. Kuhn: The new Austrian glacier inventory, a tool for the investigation of glacier change
- A. Rivera, F. Bown, R. Mella, J. Wendt, G. Casassa, C. Acuña, E. Rignot and J. Clavero: Ice volumetric changes on active volcanoes of Southern Chile
- K. Nicolussi, K.F. Kaiser, G. Patzelt and P. Schooling: Glacier advances and retreat periods during the 1st millennium AD in the eastern European Alps
- C. Mayer, A. Lambrecht, M. Belò, C. Smiraglia and G. Diolaiuti: Glaciological characteristics of the ablation zone of Baltoro Glacier, Karakoram

Poster session

- Yang, M., Yao T., Wang H. and Gou X.: Wavelet analysis of the periodic oscillations in ice core records of the past 1700 years from Guliya, China
- Yang M., Yao T., Wang H. and Gou X.: Correlation between precipitation and temperature variations in the past 300 years recorded in Guliya Ice Core, China
- S. Matoba, I. Mori, M. Nishikawa, T. Shiraiwa, K. Goto-Azuma and Y. Fujii: Estimation of dust sources in the Logan Ice Core using Th/U ratios of dust
- T. Miyake, F. Nakazawa, H. Sakugawa, N. Takeuchi, K. Fujita, K. Ohta and M. Nakawo: Concentrations and source variations of *n*-alkanes in a 21 m ice core and snow samples at Belukha Glacier, Russian Altai Mountains
- Y. Yoshimura, S. Kohshima, N. Takeuchi, K. Seko and K. Fujita: Snow algae in a Himalayan ice core: new environmental markers for ice core analyses and their correlation with summer mass balance

- Zhang X., Yao T., A. Lishe, Tian L. and X. Hujian: Bacterial community profile in Puruogangri ice core and its relation to climatic and environmental fluctuation
- Li Z., L.G. Thompson, E. Mosley-Thompson, Hou S. and Wang F.: The chronology and record formation process of an ice core from Glacier No. 1 at the Urumuqi River Head, in eastern Tianshan, China
- F. Nakazawa and K. Fujita: Reconstructing of mean summer air temperature variations with an ice cores from summer-accumulation-type glaciers
- Hou S., Ren J., and Qin D.: Modification of three ice core $\delta^{18}\text{O}$ records from area of high melt
- Kumiko Goto-Azuma, Roy M. Koerner and Okitsugu Watanabe: Spatial variation of snow chemistry on Mount Logan, Yukon, Canada
- Liu Yongqin, Yao Tangdong, Tian Lide, Xu Baiqin and Wu Guanjian: Glaciochemical records from Namunani ice core in Himalayas
- Lu A., He Y., Zhang Z., Pang H., Yuan L. and Ning B.: Glacier retreat under global warming – a disaster for the arid area of northwest China
- Liu S., Shanguan D. Ding Y., Han H., Xie C., Zhang Yong, Li Jing, Wang J. and Li G.: Glacier changes during the past century in the Gangrigabu Mountain, Southeast Tibetan Plateau, China
- J.L. Ceballos, C. Euscátegui, J. Ramírez, M. Cañon, C. Huggel, W. Haeberli and H. Machguth: Fast shrinking of tropical glaciers in Colombia
- Lu A., Yao T., Wang L., Liu S. and Guo Z.: The study of typical glaciers and lakes fluctuations using remote sensing in Qinghai–Tibetan Plateau
- Jing Zhe-fan, Jiao Ke-qin, Yao Tan-dong and Wang Ning-lian: Fluctuations of the Glacier No. 1 at the headwaters of the Ürumqi river in the Tianshan Mountains
- N. Naito, R. Suzuki, Y. Matsuda, Y. Ageta, K. Fujita, T. Yamada and K. Karma: Contrastive variations of Luge and Thorthormi Glaciers in the Bhutan Himalayas – effect of a huge proglacial lake to the glacier shrinkage
- V.B. Aizen, V.A. Kuzmichenok, A.B. Surazakov and E.M. Aizen: Glacier changes in central and northern Tien Shan during the last 150 years based on surface and remote sensing data
- Ren J., Jing Z., Pu J. and Qin X.: Glacier variations and climate change in the central Himalayas over past decades
- C. Narama, Y. Shimamura, D. Nakayama and K. Abdrakhmatov: Recent glacier changes in the Terskey-Atatoo range, Kyrgyz Republic, using Corona and Landsat
- W. Wang, V. Morgan, J. Zwally and M. Beckley: Historic ice-sheet accumulation rate and thickness change inferred from radar-detected internal layers at Law Dome Summit, East Antarctica
- K. Yalcin, C.P. Wake, K.J. Kreutz and S.I. Whitlow: Seasonal and spatial variability in snow chemistry at Eclipse Icefield, Yukon Territory, Canada
- Zhao Z., Li Z., Li X., You X., Wang F., Li C., Li H. and Zhu Y.: Atmosphere-to-snow-to-firn transfer of NO_3^- at Glacier No. 1, Tianshan, China
- You X., Li Z., Wang F., Li H., Li C., Li X., Zhao Z. and Zhu Y.: The behavior of microparticles in air and snowpack on Glacier No. 1 at Ürumqi riverhead in eastern Tianshan, China
- Wang F., Li Z., You X., Li C., Li H., Li X., Zhao Z. and Zhu Y.: Seasonal variation and evolution process of Mg^{2+} and Ca^{2+} in snow-firn pack on Glacier No. 1 at Ürumqi riverhead, the eastern Tianshan, China
- Li C., Li Z., Wang R., You X., Li X., Li H., Zhao Z. and Zhu Y.: The preliminary research of the trace metals in snow-firn at Glacier No. 1, the East Tianshan, China
- Hou S., Zhang D., Qin D. and Ren J.: Major ions of two snow pits from the central High Himalayas

WEDNESDAY, 7 AUGUST 2005

Interaction between snow/ice and atmosphere

- Li X., Li Z., Zhao Z., Li H., You X., Li C., Wang F. and Zu Y.: Seasonal variations and evolution processes of pH and electrical conductivity in snow-firn pack at Glacier No. 1, Tianshan, China
- Li Y., Yao T., Tian L., Xu B. and Wu G.: Heavy metals in a high elevation ice core from Muztag Ata in east Pamir Mountain: initial results
- Li Z., R. Edwards, E. Mosley-Thompson, Wang F., You X., Li C., Zhao Z., Li H., Li X. and Zhu Y.: Seasonal variabilities of ionic concentrations in surface snow and elution process in snow-firn packs at PGPI site on Glacier No. 1, in eastern Tianshan, China
- M. Vuille, M. Werner and R.S. Bradley: Stable isotopes in precipitation and the Asian monsoon models and observations
- Xu Baiqing, Yao Tangdong, Liu Xianqin and Wang Ninglian: Elemental carbon and organic carbon measurements with a two-step heating-GC system in the snow samples from Tibetan plateau
- N.J. Cullen, T. Mölg, D.R. Hardy and G. Kaser: Understanding glacier recession on Kilimanjaro from automatic weather station data

Glacial deposits and climate change

- V. Wasiuta, A.-L. Norman and S.J. Marshall: Spatial patterns and seasonal variation of snowpack sulphate of the Prince of Wales Icefield, Ellesmere Island
- Yu W., Yao T., Tian L., Wang Y. and Sun W.: Oxygen-18 isotopes in precipitation on the eastern Tibetan Plateau
- Katsuhiko Asahi: Last glacial equilibrium-line altitude reconstruction in the eastern Nepal Himalayas and their implications for past monsoon climate

THURSDAY, 8 AUGUST 2005

Glacio-hydrological processes

- He Y., Pang H., W.H. Theakstone, Lu A., Zhang Z., Zhang D., Yuan L. and Song B.: Spatial and temporal variations of oxygen isotopes in snowpacks and glacial runoff in different types of glacial area in Western China
- Xie C., Ding Y., Liu S. and Han H.: Characteristics glacio-hydrological variations in the Keqikaer Glacier by the cross-spectral analysis
- Zhang Y. and Liu S.: Application of degree-day model for glacier meltwater on Glacier Keqicar Baqi, southwest Tianshan
- Liu J., Shen Y., Liu S. and Huang Y.: Impact of summer meltwater to subsurface flow in glacier covered mountain watersheds, West China
- I. Juen, P. Wagnon, G. Kaser and B. Pouyaud: One year of energy balance on glacier Artesonraju in the tropical Cordillera Blanca, Peru. Measured and modelled ablation and runoff.
- F. Ng, Liu S. and B. Mavlyudov: Modelling the long-term outburst dynamics of Lake Merzbacher, Tian Shan
- H. Jay Zwally, J.L. Saba and K. Steffen: Melt-flow acceleration near the equilibrium line of the Greenland Ice Sheet: spatial gradient and interannual variability

Glacier physics

- Wu Guanjian, Yao T., Li Z., Li Y., Xu B., Li Z. and Tian L.: Mircoparticle and anion records in a Muztagata ice core
 Wang Feiteng, Li Z., Liu B., You X., Li C., Li X. and Li H.: A study on the transformation process of snow to ice in the percolation zone of the Glacier No. 1 at Ürümqi riverhead, the eastern Tianshan, China
 V. Zagorodnov, O. Nagornov and L.G. Thompson: Influence of surface climatic conditions on glacier's active layer temperature

Poster session

- Zhao Jingdong, Liu S., He Y., Deng X. and Shangguan D.: A study of the glacial landforms and ice ages of the Ateoyinake River Valley, the southern slope of the Tumer Peak, Tianshan Mountains, China
 Deng Xiaofeng, Zhao J. and Liu S.: A study of loess-paleosol sediment sequence and climate change in Holocene on the southern slope of Tumer Peak, China
 Xu Liubing and Zhou S.: Pleistocene glaciations in the Shaluli Mountain and the influences of southwest monsoon on the glaciations during the last glacial period
 C. Narama and M. Okuno: Timing of glacier variations during the Last Glacial Period in the Turkestan Range of the Pamir-Alai
 Wang Xiaoli, Zou Songbing and Zhou S.: The coupled model of the glacial and the climatic changes of the Southeast Nyanqingtanggula Mountain on the Qinghai-Tibetan Plateau, China
 C. Mihalcea, C. Mayer, G. Diolaiuti, A. Lambrecht, C. Smiraglia and G. Tartari: Ice ablation and meteorological conditions on the debris covered area of Baltoro Glacier (Karakoram, Pakistan)
 Li Zhen, Yao T., Tian L., Xu B., Wu G. and Zhu G.: Borehole temperatures at the ice-core drilling sites in the Muztag Ata Glacier, East Pamirs
 Zhao Hua-biao, Yao T. and Xu B.: Hydrological and hydrochemical features of Kaltamak Glacier area in the Mt Muztag Ata
 You Xiaoni, Li Z., Wang F., Li H., Li C., Li X. and Zhao Z.: Study on time scale of snow-ice transformation at PGPI site on Glacier No. 1 at the Ürümqi riverhead, in eastern Tianshan, China
 Yong Zhang and Liu S.: Degree-day factor for the observed glacier and its spatial variation, Western China
 R.J. Braithwaite, S.C.B. Raper and K. Chutko: A new approach to the climatic classification of glaciers
 S. Yamaguchi, M. Lehning, K. Fujita, A. Sakai, Y. Matsuda and H. Narito: Simulation of superimposed ice at July 1st Glacier, Qi-lian Mountains, China
 G. Casassa, A. Rivera, J. Wendt, F. Bown and C. Acuña: Computation of glacier mass balance in southern Chile based on GPS
 Pu Jianchen, Yao T., Tian L., Zhang Y., Y. Ageta and K. Fujita: Mass balance and its change of the small Dongkemadi Glacier in the Qinghai-Tibetan plateau
 O. Nagornov, Y. Konovalov and V. Mikhalenko: Prediction of thermodynamic state of the Gregoriev Ice Cap (Tien Shan, Central Asia) in the future
 Xie Zi-chu, Wang Xin, Feng Qing-hua, Kang Ersi and Deng Yuwu: Modeling the response of glacier system to climate warming in China
 Yang Meixue, Yao T. and Wang H.: Effect of the very heavy snow on the ground temperature in the Northern Tibetan Plateau
 Ling Fent, Zhang T. and Yang M.: Numerical analysis for effects of snow on the surface energy fluxes and ground thermal regime on the Qinghai-Tibet Plateau, China

FRIDAY, 9 AUGUST 2005

Glacier mass balance and modelling

- Ye Baisheng, Ding Y., Liu S. and Shen Y.: Response of glacier runoff to climatic warming during 1980–2003 in the Glacier No. 1 at the headwater of Ürümqi River, northwest China
 Han Tianding, Ding Y., Ye B., Liu S., and Jiao K.: Characteristics of mass balance of Glacier No. 1 at the headwaters of the Ürümqi River, Tianshan Mountains
 H. Machguth, F. Paul, M. Hoelzle and W. Haeberli: Distributed glacier mass balance modelling as an important component of modern multi-level glacier monitoring
 R.J. Braithwaite, S.C.B. Raper and K. Chutko: Accumulation at the equilibrium line altitude (ELA) of glaciers inferred from a degree-day model and tested against field observations
 Dong Cai: Mass balance of Nyainqen Tanglha Glacier, Tibet, 1977 to 2001, derived by topographical maps and satellite images
 Wen Jiahong, K.C. Jezek, A.J. Monaghan and Sun B.: Accumulation variability and mass budgets of the Lambert Glacier–Amery Ice Shelf system at high elevations
 Y. Matsuda, K. Fujita, Y. Ageta and A. Sakai: Estimating transmissivity of solar radiation for glacier mass balance modeling in the Himalayas and Tibetan Plateau
 W. Wang, Li Jun and H. Jay Zwally: Modeling of the dynamic characteristics along flowline from Dome A to Amery ice shelf, East Antarctica
 Wang Xin, Xie Z., Feng Q., Yang Y. and Yang M.: Modelling the roles of precipitation increasing in glacier system response to climate warming – taking Xinjiang region as an example
 Jun Li and H. Jay Zwally: Melting effect on snow densification and surface elevation change over Greenland Ice Sheet
 A. Schwerzmann, M. Funk and H. Blatter: Flow modelling, borehole logging and ice core interpretation at Fiescherhorn glacier, Swiss Alps

Snow cover and related processes

- Pang Hongxi, He Y., Lu A., Zhao J., Song B., Ning B. and Yuan L.: Influence of Eurasia snow cover in spring on the Indian Ocean dipole
 K. Rikiishi and H. Nakasato: Height-dependence of the declining tendency of the seasonal snow cover in the Himalaya Mountains region during the years 1966–2001
 Nozomu Takeuchi, J. Uetake, K. Fujita, V. Aizen and S. Nikitin: A snow algal community on Akkem glacier in the Russian Altai Mountains
 Zhou S., M. Nakawo, S. Hashimoto and A. Sakai: Preferential exchange rate effect of isotopic fractionation in melting and re-frozen snow
 Atsumu Ohmura: Changes of mountain glaciers and small ice caps during the 20th century and the future prospect in a warming climate
 Duan Keqin, Yao T., Tian L., Xu B. and Wu G.: Variability of snow accumulation at the site with elevation of 7010 m a.s.l. in Muztag Ata Mountain in Pamir Plateau