

INTERNATIONAL WORKSHOP ON WORLD GLACIER INVENTORY

Lanzhou, China

20-24 September 2008



PRELIMINARY PROGRAMME

Saturday 20 September

15:00		Arrival and Registration at Ningwozhuang Hotel
19:00		Icebreaker at Cold and Arid Regions Environmental and Engineering Research Institute (CAREERI)

Sunday 21 September

8:30	Chair: QIN Dahe	Formal Opening of Workshop
9:10		Group Photograph
	Chair: Roger J. BRAITHWAITE	Oral Session 1
9:30	<u>Atsumu OHMURA</u>	76 The need to bring the World Glacier Inventory to completion
10:00	<u>SHI Yafeng</u>, LIU Chaohai and KANG Ersi	78 A review of the glacier inventory of China
10:20	<u>C. Simon L. OMMANNEY</u>	11 Canada and the world glacier inventory
10:40		Refreshments
	Chair: Roger BARRY (to be confirmed)	Oral Session 2
11:00	Vladimir KOTLYAKOV, Alexander KRENKE, Ludmila CHERNOVA and <u>Tatiana KHROMOVA</u>	2 USSR glacier inventory: experience of completion
11:20	<u>Deepak SRIVASTAVA</u>, C. V. SANGEWAR, S. P. SHUKLA, M. A. SIDDIQUI and S. SWAROOP	28 Glacier inventory of Indian Himalaya
11:40	Oddur SIGURÐSSON and Richard S. WILLIAMS, Jr	34 Assessment of the area of glaciers in Iceland at the turn of the 21st century
12:00	<u>Vladimir B. AIZEN</u>, Arzhan B. SURAZAKOV and Elena AIZEN	51 Tien Shan, Pamir and Siberian Altai glacier area changes: the result of a new glacier inventory

12:20	Sunday 21 September	Lunch
	Chair: Pradeep MOOL (to be confirmed)	Oral Session 3
14:00	Rakhshan ROOHI , Arshad ASHRAF, <u>Rozina NAZ</u> and Hamid CHAUDHRY	6 Glacier resource of the Himalaya, Karakoram and Hindukush ranges of Pakistan
14:20	<u>Samjwal Ratna BAJRACHARYA</u>	10 Glaciers, glacial lakes and glacial-lake outburst floods in Everest region, Nepal
14:40	<u>Prithviraj MUKUNDARAJ</u>	66 Glaciers of Indian Himalaya - research highlights and future directions
15:00	<u>S. S. RANDHAWA</u> , R. K. SOOD and A. V. KULKARNI	74 Mapping glaciers and moraine-dammed lakes in the Chenab basin, Himachal Pradesh, northwestern Himalaya, India, using high-resolution satellite data
15:20	<u>Tatiana KHROMOVA</u> , Gennady NOSENKO and Anton MYRAVIEV	3 Status of GLIMS activity for USSR glaciers
15:40		Refreshments
16:00	Chair: QIN Dahe	Special Session in Honour of Professor Shi Yafeng
19:00		Banquet at Ningwozhuang Hotel
	Monday 22 September	
	Chair: Frank PAUL (to be confirmed)	Oral Session 4
8:30	<u>LIU Shiyin</u> , GUO Wanqin, SHANGGUAN Donghui, XU Junli, ZHANG Yinsong, LI Jing, WU Lizong, WU Zhen and DENG Xiaofeng	9 The compilation of new satellite-based glacier inventory in China - preliminary results
8:50	<u>Hironori YABUKI</u> , Takeo TADONO and Jinro UKITA	16 New generation glacier inventory over Eurasia using ALOS data
9:10	<u>GUO Wanqin</u> , LIU Shiyin, XU Junli and WU Lizong	31 Automatic extraction of glacier boundaries and attributes in a glacier inventory based on remote sensing and GIS
9:30	<u>Bruce H. RAUP</u> , Siri Jodha Singh KHALSA and Richard L. ARMSTRONG	23 Challenges and data quality in the GLIMS glacier database
9:50	<u>Gennady NOSENKO</u> , Tatiana KHROMOVA, Anton MYRAVIEV, Maria SHAHGEDANOVA and Chris R. STOKES	4 Assessment of changes in the extent of glaciers in the Caucasus and the Altay Mountains, using data from a satellite-based inventory and the world glacier inventory
10:10		Refreshments
	Chair: DING Yongjian (to be confirmed)	Oral Session 5
10:30	<u>Jakob ABERMANN</u> , Andrea FISCHER, Astrid LAMBRECHT and Michael KUHN	40 Using high-resolution laser scanning data for updating glacier inventories: area and volume changes in the Ötztal Alps 1969–2006
10:50	<u>Frank PAUL</u> , Michele CITTERIO, Andreas AHLSTRØM, Hans F. JEPSEN and Anker WEIDICK	49 A new inventory of local glaciers and ice caps for part of West Greenland: methods, challenges and change assessment
11:10	<u>ZHANG Shiqiang</u> , SHANGGUAN Donghui and LIU Shiyin	38 An improved method for mapping debris-covered glaciers with satellite multispectral image data and a digital elevation model
11:30	CHEN Feng and <u>KANG Shichang</u>	55 Study of Rongbuk glacier variations, Mount Qomolangma (Everest), using older data and ASTER imagery
11:50	XU Junli , ZHANG Yingsong and <u>LIU Shiyin</u>	61 Glacier area changes in the Qilian Shan, northeastern Qinghai–Xizang (Tibet) Plateau, during the past decades
12:10		Lunch

Monday 22 September

14:00	Chair: YAO Tandong (to be confirmed) <u>Michael ZEMP</u> , Wilfried HAEBERLI, Martin HOELZLE, Andreas KÄÄB, Frank PAUL and Isabelle ROER	67	Oral Session 6 Glacier inventory data within the Global Terrestrial Network for Glaciers (GTN-G); Part 1: WGMS and WGI
14:20	Richard L. ARMSTRONG , Bruce H. RAUP, Siri Jodha Singh KHALSA, Adina RACOVITEANU and Jeffrey S. KARGEL	56	Glacier-inventory data within the Global Terrestrial Network for Glaciers (GTN-G). Part 2: NSIDC and GLIMS
14:40	<u>Wilfried HAEBERLI</u> , Martin HOELZLE, Frank PAUL and Michael ZEMP	68	Glacier inventories as part of the integrative monitoring of cold environments under conditions of rapid climate change
15:00	KANG Ersi , LIU Chaohai and XIE Zichu	77	Assessment of glacier water resource based on glacier inventory in China
15:20	Sarah C. B. RAPER and Roger J. BRAITHWAITE	65	Estimating volume response time of glaciers from glacier-inventory data
15:40			Refreshments
16:00	Chair: Roger J. BRAITHWAITE Frank PAUL , Andreas KÄÄB, Helmut ROTT, Andrew SHEPHERD and Tazio STROZZI	22	Poster Session 1 GlobGlacier: a new ESA project to map and monitor the world's glaciers from space
16:04	Bruce H. RAUP , Siri Jodha Singh KHALSA, Richard L. ARMSTRONG, Frank PAUL and Adina RACOVITEANU	69	Summary of GLIMS Workshop, Boulder, 16–18 June, 2008
16:08	Christoph KNOLL and Hans KERSCHNER	29	A glacier inventory for South Tyrol, Italy, based on airborne laser scanner data
16:12	Katshuhiko ASAH	73	Glacier inventory of eastern Nepal: an application for current state and future possibilities
16:16	<u>Felix SVOBODA</u> and Frank PAUL	46	A new glacier inventory on southern Baffin Island, Canada, from ASTER data: I. Methods, challenges and solutions
16:20	Frank PAUL and Felix SVOBODA	47	A new glacier inventory on southern Baffin Island, Canada, from ASTER data: II. Data analysis, glacier change and applications
16:24	CAO Bo , PAN Baotian, GAO Hongshan and XU Junli	36	Modern glacier changes in the Lenglongling region, eastern Qilian Shan, over 50 years
16:28	ZHOU Caiping , WU Liang, YANG Dingding and OUYANG Hua	30	The glacier inventory of Nianchu river basin, southern Tibetan Plateau
16:32	WANG Yetang and <u>HOU Shugui</u>	17	Glacier change on Karlik mountain, eastern Tien Shan, over the last 30 years
16:36	<u>Qamar UL ZAMAN</u> , Furrukh BASHIR and Ghulam RASUL	59	Comparison of WGI inventory with satellite-based inventory for northern Pakistan
16:40	<u>ZHOU Jianmin</u> and LI Zhen	12	Estimating the movement of Dongkemadi glacier using L-band ALOS/PALSAR data
16:44	Matthew J. BEEDLE and Bruce H. RAUP	24	A GLIMS inventory of the Juneau Icefield, Alaska, USA
16:48	LI Jing , <u>LIU Shiyin</u> , DING Yongjian, SHANGGUAN Donghui, XU Junli, ZHANG Yinsong and DU Erji	8	Ice-elevation changes derived from DEM, using GPS real-time kinematic measurements and a topographic map of the Shuiguan river glacier No.4, Qilian Shan, China
16:52	<u>Ros DEATH</u> , Tony PAYNE and SUN Bo	72	A statistical approach to estimate the regional change in volume of Chinese glaciers
16:56	SHANGGUAN Donghui , LIU Shiyin, <u>DING Yongjian</u> , ZHANG Yingsong and DU Erji	1	Recent changes in the glacier area and ice elevation of Dongkemadi glacier, Tibetan Plateau
17:00			Poster viewing

Tuesday 23 September

8:30	Chair: S R BAJRACHARYA (to be confirmed) Roger J. BRAITHWAITE and Sarah C. B. RAPER	64	Oral Session 7 Estimating equilibrium line altitude (ELA) from glacier inventory data
8:50	WANG Ninglian	71	Study on factors influencing the length of a mountain glacier
9:10	DING Yongjian and ZHANG Shiqiang	39	Evaluation of glacier meltwater and runoff in China using a degree-day model
9:30	Ghulam RASUL	58	Climate warming and the formation of glacial lakes around some Himalaya, Karakoram and Hindukush glaciers
9:50	YAO Tandong , DUAN Keqin, XU Baiqing, YANG Wei, YE Qinghua, GUO Xuejun, QIN Dahe, LI Jijun and SHI Yafeng	15	Intensifying Indian monsoon accelerates glacial retreat on the southeastern Tibetan Plateau

10:10

Refreshments

10:30	Chair: WANG Ninglian DU Wentao and XIANG Qin	20	Oral Session 8 Variation of the Laohugou glacier No. 12, Qilian Shan
10:50	Furrukh BASHIR and Ghulam RASUL	60	Monitoring seasonal snow-cover variability over the northern mountains of Pakistan
11:10	LU Qifeng , ZHANG Peng, ZHANG Wengjiang, WU Xuebao, ZHANG Fengying and ZHENG Zhaojun	63	Data assimilation of ATOVS in the emergency response to the 2008 China snow disaster
11:30	Alagappan RAMANATHAN , Jose George POTTAKKAL, Anurag LINDA, D. SHRUTHI and Parmanad SHARMA	70	Deglaciation impact on the sub-glacial drainage systems of the Gangotri Glacier in Himalayas through dye tracer and hydrogeochemical techniques in India
11:50	HAN Haidong , LIU Shiyin, XIE Changwei and ZHANG Yong	75	Field survey of ice-cliff topography in debris-covered area of Koxkar Baxi glacier, western Tien Shan, China

12:10

Lunch

13:30

Excursion

Wednesday 24 September			
Chair: Simon OMMANNEY (to be confirmed)			
9:00	HUANG Lei and LI Zhen	13	Poster Session 2 Analysis of mountain glacier-flow velocity from optical images
9:04	ZHANG Yong , LIU Shiyin, HAN Haidong and LI Jing	14	Glacier ablation and recession on the debris-covered Keqicar glacier, Tarim river basin, China
9:08	HAN Tianding , DING Yongjian and YE Baisheng	18	Characteristics of winter mass balance of glacier No.1 at the headwaters of the Ürümqi river, Tien Shan
9:12	LIU Qiao , LIU Shiyin, ZHANG Yong, WANG Xin, LI Jing and JIANG Zongli	19	Hydrological response to climate change of the Hailuoguo glacier, a temperate glacier on the east slope of Mount Gongga
9:16	YANG Wei , YAO Tandong, XU Baiqing, WU Guangjian, MA Linglong and XIN Xiaodong	26	Characteristics of glacier variation in the Ranwu lake region, southeastern Tibetan Plateau
9:20	WANG Liping , LIU Shiyin, LI Deping and DING Liangfu	32	Tupu analysis of spatio-temporal glacier variations since the Little Ice Age in the Chiangtang Plateau
9:24	ZHANG Guoliang , PAN Baotian , GUO Wanqin, LIU Shiyin, GAO Hongshan And WANG Jie	35	Gongga glacier change research based on 3S technology
9:28	YANG Yong and CHEN Rensheng	42	Heat and water transfer processes on alpine meadow frozen ground in the Heihe mountainous watershed, northwest China
9:32	QING Wenwu and CHEN Rensheng	43	Estimation of ablation on Koxkar glacier, Tien Shan
9:36	CHEN Rensheng	44	Daily glacier-runoff estimation methods: a case study of Koxkar glacier
9:40	LIU Junfeng , YANG Jianping and CHEN Rensheng	45	Snowmelt runoff simulation using SRM in the Dongkemadi river basin: source watershed of the Yangtze River
9:44	JING Zhefan , WANG Ninglian, YAO Tandong and QIN Xiang	57	Movement and variation of several typical glaciers in China under the background of climate change
9:48			Poster viewing

10:40

Refreshments

Wednesday 24 September

11:00	Chair: REN Jiawen (to be confirmed)	Discussion Session 1: Completion of World Glacier Inventory (preliminary title)
12:00		Lunch
14:00	Chair: Tatiana KHROMOVA (to be confirmed)	Discussion Session 2: Detecting and modelling ice mass changes of world glaciers (preliminary title)
15:40		Refreshments
16:00	Chair: Bruce RAUP (to be confirmed)	Reports from Working Groups
17:30	Chair: Atsumu OHMURA	Winding Up Session

NOTES