

图书基本信息

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内容概要

These collectanea include 59 articles of my English works from 1964 to 2007. The first article , Professor Zhu Kezhen Opening up a Path for Research on Climatic Change in China , was written in Prof. Zhu's honour in his twenty-year Yahrzeit , to commemorate his contribution as a distinguished leader to the development of Chinese science and education in the 20th century. With passion , democracy and innovative spirit , he promoted scientific researches and higher educations in China , and hence enjoyed a high prestige among Chinese intellectuals. His research fields ranged from meteorology and geography to natural science history , in particular , historical climatic change , on which he had written eight articles. His last and most prominent paper , entitled Preliminary Study on Climatic Change during Last Five Thousand Years in China , opened up the path for research on climate change and induced many scientists thereafter to engage in this field.

书籍目录

Foreword Preface Shi Yafeng Professor Zhu Kezhen Opening up a Path for Research on Climatic Change in China *Chinese Geographical Science*, 4 (2) :186-192 (1994) Part I Glaciological Expeditions to the Himalayas and Karakorum Shi Yafeng, Liu Tunsheng Preliminary Report on the Mount Shisha Pangma Scientific Expedition, 1964. // *Chinese Science Bulletin*, (10) :928-938 (1964) Shi Yafeng, Chi Tzuhsiu Scientists Study Mount Shisha Pangma. *China Reconstructs*, 14 (3) :19-21 (1965) Division of Glaciology, Lanzhou Institute of Glaciology, Cryopedology and Desert Research, Academia Sinica Basic Features of the Glaciers of the Mount Jolmo Lungma Region, Southern Part of the Tibet Autonomous Region, China. *Scientia Sinica*, 18 (1) :106-130 (1975) The Batura Glacier Investigation Group, Lanzhou Institute of Glaciology and Cryopedology, Academia Sinica The Batura Glacier in the Karakoram Mountains and Its Variations. *Scientia Sinica*, 22 (8) :958-974 (1979) Shi Yafeng, Zhang Xiangsong Batura Glacier of Karakoram Mountains- An example of the Complex Type Glacier. // *Geological and Ecological Studies of Qinghai-Xizang Plateau*. Science Press, Beijing, 1619-1624 (1981) Shi Yafeng, Zhang Xiangsong Some Studies of the Batura Glacier in the Karakoram Mountains // Miller K J ed. *International Karakoram Project*, The Royal Geographical Society, 51-63 (1984) Shi Yafeng, Wang Wenying Research on Snow Cover in China and the Avalanche Phenomena of Batura Glacier in Pakistan. *Journal of Glaciology*, 26 (94) :25-30 (1980) Part Distribution and Features of Glaciers in China Shi Ya-feng, Hsieh Tze-chu, Cheng Pen-hsing, Li Chi-chun Distribution, Features and Variations of Glaciers in China. // *World Glacier Inventory (Proceedings of the Riederalp Workshop, September 1978)*, IAHS Publ. No. 126:111-116 (1980) Shi Yafeng Some Achievements on Mountain Glacier Researches in China. *Seppyo (Journal of the Japanese Society of Snow and Ice)*, 42 (4) :215-227 (1980) Shi Yafeng, Li Jijun Glaciological Research of the Qinghai-Xizang Plateau in China. // *Geological and Ecological Studies of Qinghai-Xizang Plateau*. Science Press, Beijing, 1589-1598 (1981) Huang Maohuan, Shi Yafeng Thirty Years of Progress in the Studies on Basic Features of Glaciers in China. *Journal of Chinese Geography*, 2 (1) :92-108 (1991) Shi Yafeng, Li Jijun Progress in Glaciology and Quaternary Glaciation Research in China since 1978. *Journal of Glaciology and Geocryology*, (Special Issue) :3-16 (1995) Shi Yafeng, Wang Zongtai, Liu Chaohai Progress and Problems of Glacier Inventory in China. *Zeitschrift für Gletscherkunde und Glazialgeologie*, 17 (2) :191-198 (1981) Liu Chaohai, Shi Yafeng, Huang Maohuan, Mi Sheng Glaciers and Their Distribution in China. // Shi Yafeng, et al. eds. *Glaciers and Related Environments in China (Chapter 2)*. Science Press, Beijing, 16-94 (2008) Part Glacial Evolution in the Past, Present and Future Shi Yafeng Characteristics of Late Quaternary Monsoonal Glaciation on the Tibetan Plateau and in East Asia. *Quaternary International*, 97-98:79-91 (2002) Part Quaternary Glaciations in China Part Cryosphere and Water Resources Part Impacts of Global Warming Part Evidence of Mid Holocene Climates and Environments in China Part Monsoon Evolution Related to Uplift of the Tibetan Plateau Part Climate Changes at Present Part Sea Level Rise and Floods in Lower Yangtze Basin Appendix 1 Introduction of Professor Shi Yafeng Appendix 2 Main Publications of Professor Shi Yafeng

章节摘录

Abstract-The Karakoram Highway linking two countries , China and Pakistan , passes through the terminus of the well-known Batura Glacier in the northwest of the Karakoram Mountains.The advance and recession of the glacier and the migration of the melt water channel have a great influence upon the high way.From 1974 to 1975 , by using terrestrial stereophotogrammetry , the Glacier Investigation Group of China succeeded in making a survey of the drainage area of the Batura Glacier and drawing a 1 : 50 000 topographic map.The Batura Muztagh , the highest peak in the area , is 7795 m a.s.l.Running from WNW to ESE , the Batura Glacier is 59.2 km long and has an area of 285 km².The snowline there ranges from 4 700 to 5 300 m a.s.l.The firnarea (144 km²) is a bit larger than the ablation area (141 km²) .During the period of Neoglaciation , the glacier advanced to a place 2.5km down ward from the present-day glacial terminus.Two hundred years ago and during the period of 1885-1925 the glacier advanced twice to the bed of the Hunza River.From the thirties to the sixties of the present century , the glacier receded and the large ice cliff on the main flow line withdrew to a place 800 m away from the Hunza River.But in 1975 , the position of ice cliff advanced 100 m , as compared with that in 1966.The ice surface near it rose obviously , 15 m on the average.We carefully measured the ice velocity , ablation and thickness within the limits of 20 km in the lower reaches of the glacier.The maximum ice velocity was 517.5 m a-l.At Profiles III and IX there appeared an anomalous phenomenon : Namely , the ice velocity in the lower reaches was higher than that in the up perones.At the ice cliff of the glacial terminus it remained 30-40 m a-l.By using a gravimeter , we found that the maximum ice thickness was 432 m , and the mean one at Profile II near the glacial terminus was 85 m.By setting up stakes , we found that the maximum ablation rate of the exposed ice was 18.41 m a-l.But the ice surface was covered with thick debris , and the mean ablation rate decreased to 4.84 ma-l.All melt water flowed into subglacial channels and drained out from ice caverns at the glacial terminus.The maximum volume of discharge was 417 m³ s-i (on August 18 , 1975) , and the minimum , 1.4 m³ s-i (in March 1975) .The drainage ice caverns were for years below the ice cliff , but migrated suddenly to the southern side of the glacier in the summer of 1973.Our measurement showed that the glacier's ice input at Profile was greater than its ablation rate , resulting in its continuous advance.But , from Profile upward to Profile the situation was reversed , resulting in a deficit state.According to our forecast , the glacier will keep on advancing 180-240 m until it reaches a place about 300 m away from the highway.Starting from the 1990s , the glacier will once again be on the decline.The new meltwater channels formed in 1973 will remain stable for a considerable period , maybe up to the beginning of the next century.

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