时空三极环境大数据平台

**Glacial lake inventory of High Mountain Asia**

英文标题：Glacial lake inventory of High Mountain Asia

1、摘要

The dataset integrated glacier inventory data and 426 Landsat TM/ETM+/OLI images, and adopted manual visual interpretation to extract glacial lake boundaries within a 10-km buffer from glacier terminals using ArcGIS and ENVI software, normalized difference water index maps, and Google Earth images. It was established that 26,089 and 28,953 glacial lakes in HMA, with sizes of 0.0054–5.83 km2, covered a combined area of 1692.74 ± 231.44 and 1955.94 ± 259.68 km2 in 1990 and 2018, respectively. The current glacial lake inventory provided fundamental data for water resource evaluation, assessment of glacial lake outburst floods, and glacier hydrology studies in the mountain cryosphere region.

2、关键词

主题关键词：冰湖编目,湖冰,水资源,冰川（含冰盖）
学科关键词：人地关系,冰冻圈
地点关键词：High Mountain Asia
时间关键词：2018, 1990

3、数据细节

1.比例尺：None

2.投影：Albers

3.文件大小：63.23MB

4.数据格式：None

4、空间范围

|  |  |  |
| --- | --- | --- |
| - | 北：55.0 | - |
| 西：68.0 | - | 东：104.0 |
| - | 南：27.0 | - |

5、时间范围None--None

6、引用方式

数据的引用:

WANG Xin, GUO Xiaoyu, YANG Chengde, LIU Qionghuan, WEI Junfeng, ZHANG Yong, LIU Shiyin, ZHANG Yanlin, JIANG Zongli, TANG Zhiguang. Glacial lake inventory of High Mountain Asia. 时空三极环境大数据平台, DOI:10.11888/Glacio.tpdc.270919, CSTR:18406.11.Glacio.tpdc.270919, 2019.[LIU Shiyin, TANG Zhiguang, LIU Qionghuan, YANG Chengde, ZHANG Yong, WEI Junfeng, WANG Xin, JIANG Zongli, ZHANG Yanlin, GUO Xiaoyu. Glacial lake inventory of High Mountain Asia. A Big Earth Data Platform for Three Poles, DOI:10.11888/Glacio.tpdc.270919, CSTR:18406.11.Glacio.tpdc.270919, 2019]

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7、资助项目信息

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8、数据资源提供者

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