A Big Earth Data Platform for Three Poles

**Inventory dataset of glacial lakes in the Sikkim Region, India (2000)**

1、Description

This glacial lake inventory receives joint support from International Centre for Integrated Mountain Development (ICIMOD) and United Nations Environment Programme/Regional Resource Centre, Asia and the Pacific (UNEP/RRC-AP).  
1. This glacial lake inventory referred to Landsat 4/5 (MSS, TM/1984/1999), Landsat 7 (TM & ETM+), IRS-1C, LISS-III (1995 IRS-1C), (1997 IRS-1D) and other remote sensing data. It reflects the current situation of glacial lakes with areas larger than 0.01 km2 in 2000.  
2. Glacial Lake Inventory Coverage: Tista Basin, Sikkim Region  
3. Glacial Lake Inventory includes: glacial lake inventory, glacial lake type, glacial lake orientation, glacial lake width, glacial lake area, glacial lake depth, glacial lake length and other attributes.  
4. Projection parameter:   
Projection: Lambert conformal conic   
Ellipsoid: Everest (India 1956)   
Datum: India (India, Sikkim)   
False easting: 2743196.40   
False northing: 914398.80   
Central meridian: 90°00’00” E   
Central parallel: 26°00’00” N   
Scale factor: 0.998786   
Standard parallel 1: 23°09’28.17” N   
Standard parallel 2: 28°49’8.18” N   
Minimum X Value: 2545172   
Maximum X Value: 2645240   
Minimum Y Value: 1026436   
Maximum Y Value: 1163523   
For a detailed data description, please refer to the data file and report.

2、Keywords

Theme：Lake ice,Ice lake inventory,Lake ice,Glacier(Ice Sheet)  
Discipline：Cryosphere  
Places：Sikkim Region, Tista Basin, India  
Time：2000

3、Data details

1.Scale：100000

2.Projection：Lambert conformal conic

3.Filesize：18.2MB

4.Data format：shp

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：28.5 | - |
| west：88.0 | - | east：89.0 |
| - | south：27.4 | - |

5、Time frame:2000-01-08 00:00:00+00:00--2001-01-07 00:00:00+00:00

6、Reference method

References to data:

Samjwal Ratna Bajracharya Samjwal Ratna Bajracharya. Inventory dataset of glacial lakes in the Sikkim Region, India (2000). A Big Earth Data Platform for Three Poles, 2011

References to articles:

Pradeep Kumar Mool,Samjwal Ratna Bajracharya, (2003). Inventory of Glaciers and Glacial Lakes and the Identification of Potential Glacial Lake Outburst Floods (GLOFs) Affected by Global Warming in the Mountains of Himalayan Region ,ICIMOD.

7、Supporting project information

8、Data resource provider

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