

Date of Submission	
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IPL Project (IPL -203) Annual Report Form 2017

1 January 2016 to 31 December 2016

1. Project Title

Analysis and identify of landslides based on species distribution and surface temperature difference (IPL 203)

2. Main Project Fields

A. Monitoring and Early Warning, B. Hazard Mapping, Vulnerability and Risk Assessment Name of Project leader

Ying Guo

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Core members of the Project

Zhaoguang Hu, Institute of Cold Regions Science and Engineering Northeast Forestry University, China

Chunjiao Wang, Institute of Cold Regions Science and Engineering Northeast Forestry University, China

Chengcheng Zhang, Institute of Cold Regions Science and Engineering Northeast Forestry University, China

Hua Jiang, Institute of Cold Regions Science and Engineering Northeast Forestry University, China

3. Objectives: (5 lines maximum)

Under the permafrost, landslides and other complex geological conditions investigation, design, construction and monitoring technical of express way expansion project.

4. Study Area: (2 lines maximum)

Beian - Heihe Expressway Extension Project K160~K182 Section

5. Project Duration (1 line maximum)

2016.08-

6. Report

1) Progress in the project: (30 lines maximum)

The geological survey was carried out in the study area, the distribution of the plant was investigated by using the UAV, the monitoring points were set up to monitor the changes of ground temperature and pore water pressure.

2) Planned future activities or Statement of completion of the Project (15 lines maximum)

Study on the relationship between the difference of soil temperature and water content and the distribution of surface plants.

3) Beneficiaries of Project for Science, Education and/or Society (15 lines maximum)

Climate change has become a hot issue of global concern, melting permafrost caused by climate change led to many landslides, which have a dramatic impact on the regional environment, ecology and construction project. It has important scientific and engineering significance to carry out long-term monitoring and analysis for this hot issue.

4) Results: (15 line maximum, e.g. publications)

1. Wei Shan, Ying Guo, Zhaoguang Hu *et al.*, Landslides Caused by Climate Change and Groundwater Movement in Permafrost Mountain, "*River Basin Management*", book edited by Daniel Bucur, Chapter 1, ISBN 978-953-51-2605-8, Print ISBN 978-953-51-2604-1, Published: August 10, 2016 under CC BY 3.0 license. DOI: 10.5772/63068.

Note:

- 1) If you will change items 1)-6) from the proposal, please write the revised content **in Red**.
- 2) Please fill and submit this form by **30 March 2017** to ICL Network <icl-network@iclhq.org>