**Date of Submission** 

30 March 2019

# **IPL Project Annual Report Form 2019**

#### 1 January 2018 to 31 December 2018

## Project Title:

The construction of a global database of giant landslides on oceanic island volcanoes

## 1. Main Project Fields

Select the suitable topics. If no suitable one, you may add new field.

- (1) Technology Development
  - B. Hazard Mapping, Vulnerability and Risk Assessment
- (2) Targeted Landslides: Mechanisms and Impacts
  - A. Catastrophic Landslides
- (3) Capacity Building
  - B. Collating and Disseminating Information/ Knowledge
- (4) Mitigation, Preparedness and Recovery
  - A. Preparedness

#### 2. Name of Project Leader

Dr. Matt Rowberry, Ph.D.

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Core members of the Project:

Jan Blahůt, Ph.D. (IRSM CAS)

Jan Klimeš, Ph.D. (IRSM CAS)

Xavi Martí, Ph.D. (IRSM CAS)

Michal Kusák, MSc. (IRSM CAS)

## 3. Objectives

The fundamental objectives of the proposed project are:

- To construct the first global database of giant landslides on oceanic island volcanoes
- To investigate spatial and temporal patterns of landsliding and landslide reactivation
- To assess the hazard and potential risks posed by these giant landslides

#### 4. Study Area

The database will include information about giant landslides from across the globe.

#### 5. Project Duration

2016-2018

## 6. Report

#### 1) Progress in the project

During the 2018 we published series of articles dedicated not only to the preparation and content of the database, but also to a monitoring of selected giant landslide on the El Hierro (Canary Islands, Spain). We completed the global database which is being continuously updated also through active inputs from individual researchers who are sending us their recent publications. We also prepared for publication an article for broad public explaining them the basic facts about under sea landslides.

### 2) Planned future activities or statement of completion of the Project

We will publish ICL/IPL Activity paper type describing the final global database of the giant landslides on the volcanic islands in 2019. This will be also the last year of the IPL project. Despite of that we plan to annually update the database and we would be very glad, if a web link from the ICL/IPL web page to our database page could be added.

#### 3) Results

- Blahut J, Baroň I, Sokoľ L, Meletlidis S, Klimeš J, Rowberry M, Melichar R, García-Cañada L, Martí X (2018) Large landslide stress states calculated during extreme climatic and tectonic events on El Hierro, Canary Islands Blahut, Landslides, https://doi.org/10.1007/s10346-018-0993-1
- Blahůt J, Klimeš J, Rowberry M, Kusák M (2018) Database of giant landslides on volcanic islands first results from the Atlantic Ocean. Landslides, 15: 823-827. doi: 10.1007/s10346-018-0967-3

  Blahut J (submitted) Undersea landslides (in Czech). Vesmír

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 2019 to ICL Network < icl-network@iclhq.org