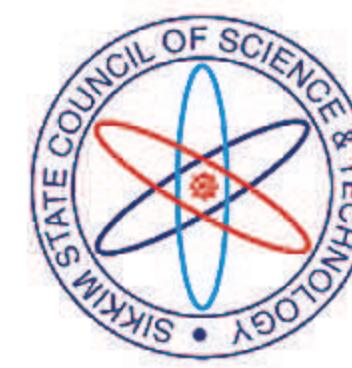




# GLACIAL LAKE STUDIES IN SIKKIM



## 1. BATHYMETRIC STUDY

### (A) Definition:

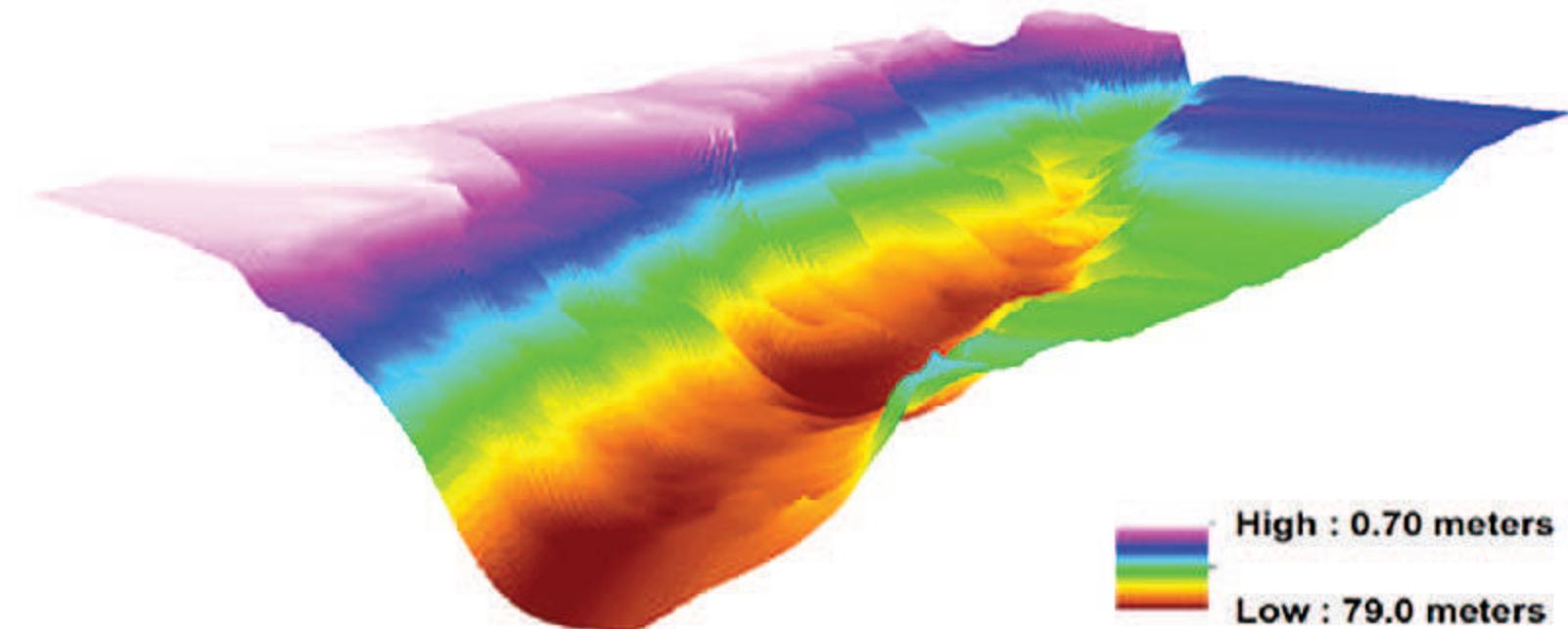
Bathymetric study is the process of measuring how deep water is and maps the shape of the land under lakes, rivers or oceans.

### (B) Instruments used:

Apache 3 unmanned surface vehicle ensemble with differential GPS.

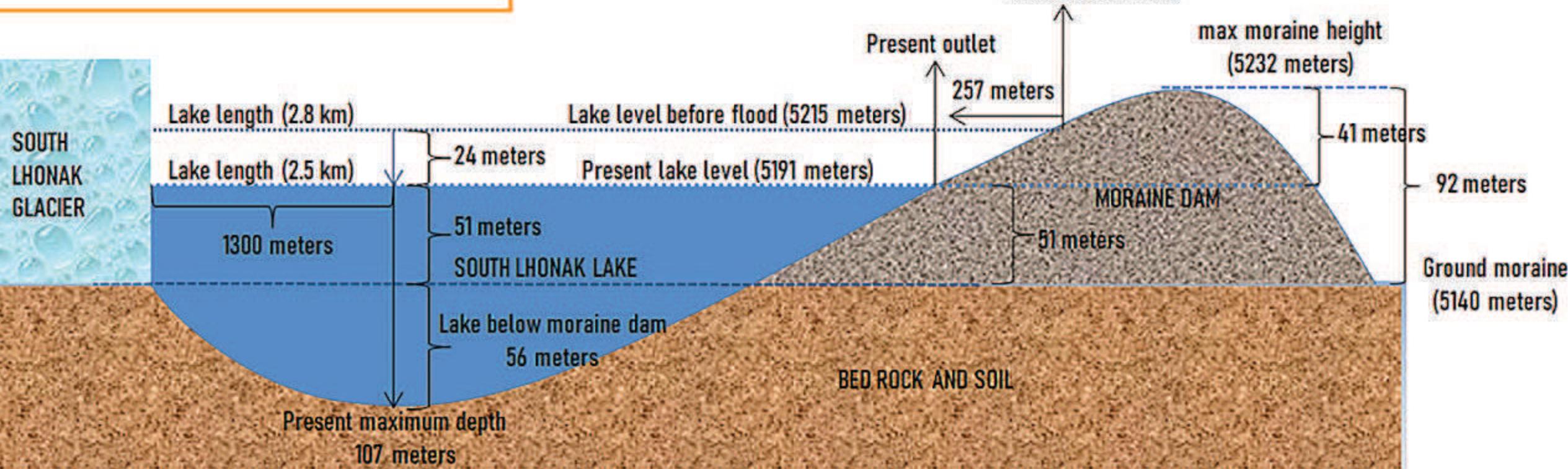


3D profile of Changsang Lake



### (C) Expected deliverables:

- Lake volume and depth estimation
- Lake bed elevations study
- Longitudinal profile of lake
- Hydrodynamic modeling



Schematic representation of South Lhonak Lake after the flood of 4 October 2023



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