

Landslide Mapping of Rudraprayag Region

Map description and analysis

Introduction

Landslide, River, Bareland, Snow and Vegetations are mapped using Machine learning Algorithm. Landslide loaction can be seen generally located near the river along with forest area.

Study area and Data Used

The study area is Rudraprayag district but the region of Chamoli, Tehri Garhwal, Pauri and Uttarkashi area also included. In the map rivers like Alaknanda, Mandakani, Madhyameshwar Ganga etc. Data like dem, slope, aspect and NIR band along with indices like NDVI and mNDMI are the essential parameters used in Machine learning. Data Year for this analysis is 2015(Apr-Dec).

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