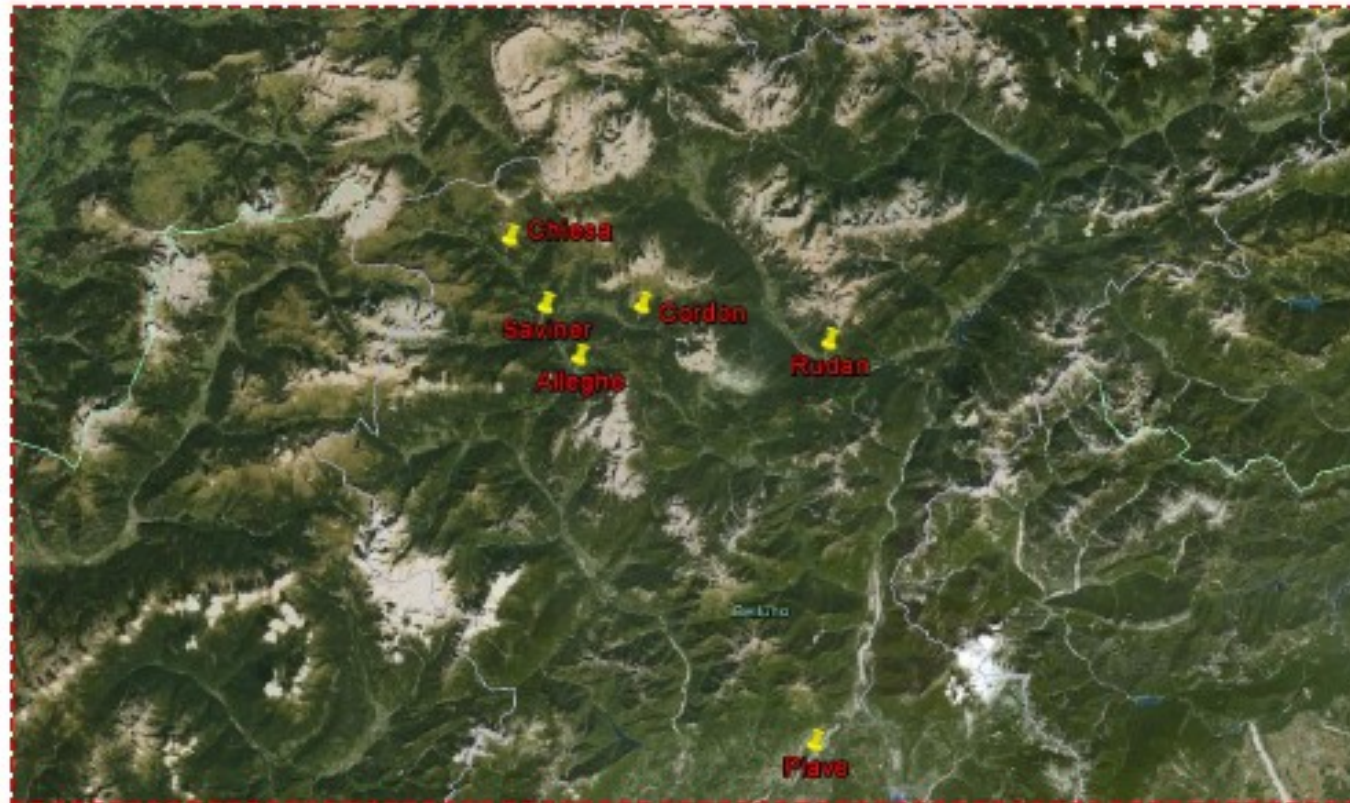




**Rio Rudan**  
**Veneto region**  
**Belluno province**

[www.sedalp.eu](http://www.sedalp.eu)



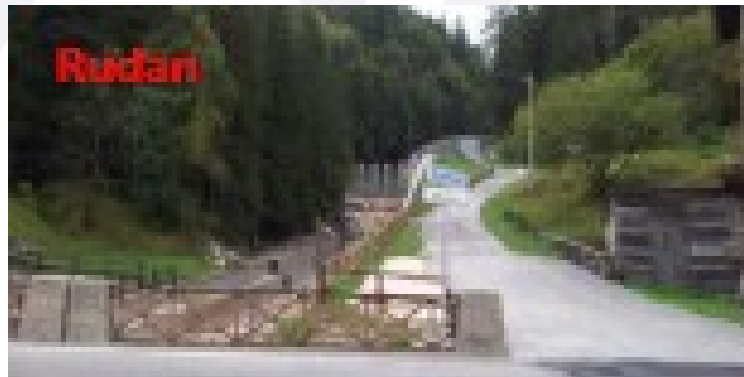
<b>Rio Rudan</b>	
Catchment area (km <sup>2</sup> )	2.82
Minimum elevation (m a.s.l.)	799
Maximum elevation (m a.s.l.)	3263
Average elevation (m a.s.l.)	1761
Mean catchment gradient (%)	107.3
Main channel mean gradient (%)	37.6
Annual rainfall min – max (mm)	950 - 1300
Length of the main stream (km)	4.18

**Geology:**

Dolomite, Quaternary moraine, Wengen volcanic sediment, San Cassiano marnous

**Land use:**

Thick woodland 50.6%; Unproductive 27.8%; Shrubs 14.9%



## **Event History in Rudan**

- September 1882: important damages to mills and to a sawmill. Transportation to the confluence of the huge block already present;
- September 1951: during an important alluvial event, trees stop the bridge light and cause 1 m deposition above the state street bridge;
- 19 July 1987: intense and long rainfall cause severe erosion on quaternary reach. River bed in Peaio cover of 2-4 m of gravel;
- 7 August 1996: storm activated a debris flow that fill the river bed in Peaio;
- 6-7 September 1998: some debris flows accumulate sediment and caused outflows and bank erosion;
- 12 September 1998: a debris flow arrive in Peaio village;
- 5 August 1999: following rainfall, a lot of sediment fill the river bed in Peaio;
- 20 September 1999: an important debris flow cause outflows in upper part and bank erosion, two houses damaged.