



# Manival torrent

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## Manival Torrent

Location	Chartreuse Mountains, Northern French Prealps
Region/Department/Commune	Rhône-Alpes/Isère/Saint-Nazaire-les-Eymes
Coordinates	45°17'N, 5°49'E
Drainage area (km <sup>2</sup> )	3.6
Elevation range (m a.s.l)	570-1738
Mean annual rainfall (mm)	1450
Geology	Jurassic and Cretaceous marls and limestones
Sediment transport monitoring	Debris flows and bedload
Number of monitoring stations	1
Equipments	ultrasonic sensor, geophones, infra-red video camera, reflex camera, rain gauges sediment retention basin (25 000 m <sup>3</sup> )
Complementary surveys	39 cross sections Airborne lidar coverage of the catchment







Bedload deposit in the channel of the Manival Torrent  
(photo: Frédéric Liébault, Irstea Grenoble)



*Sediment management in Alpine basins*



Debris flow lobe in the channel of the Manival Torrent  
(photo: Frédéric Liébault, Irstea Grenoble)



*Sediment management in Alpine basins*