



# HydroReport 12/2021

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Climareport N. 312

AUTONOME PROVINZ BOZEN - SÜDTIROL  
Agentur für Bevölkerungsschutz



PROVINCIA AUTONOMA DI BOLZANO - ALTO ADIGE  
Agenzia per la Protezione civile

# Foto des Monats

## Foto del mese


### Picture of the month



#### Vals - Mühlbach I Valles - Rio di Pusteria



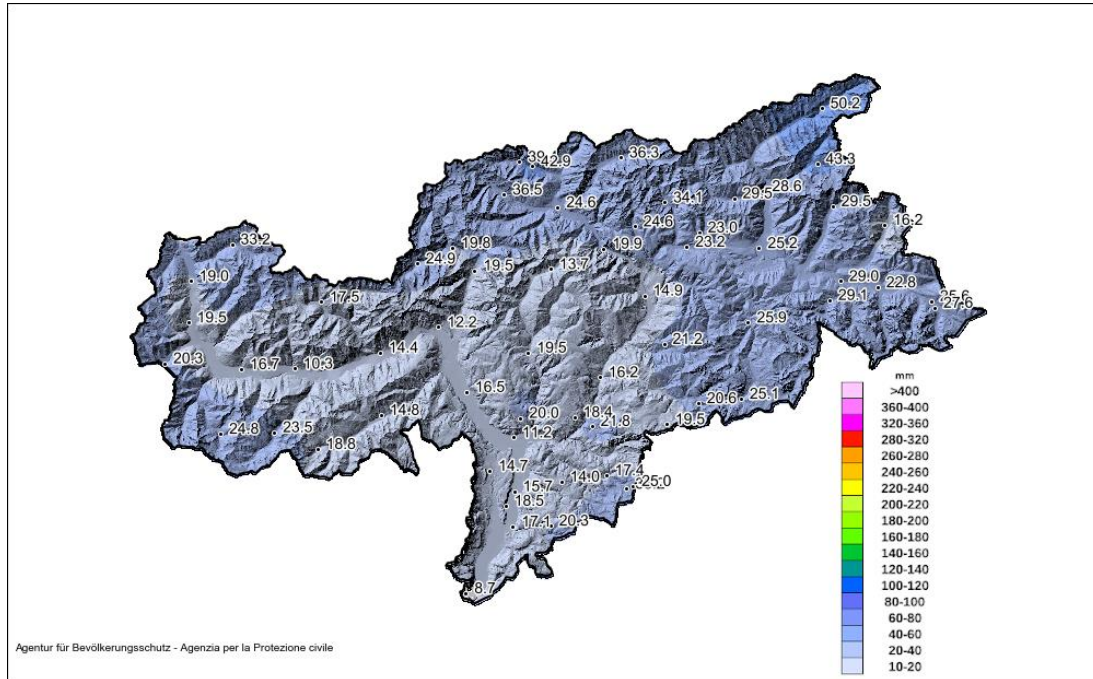
Beschneigungsbecken „Hinterberg“.  
Bacino di innevamento “Hinterberg“.  
“Hinterberg” storage basin for technical snowmaking.

 Luca Messina, 22/12/2021

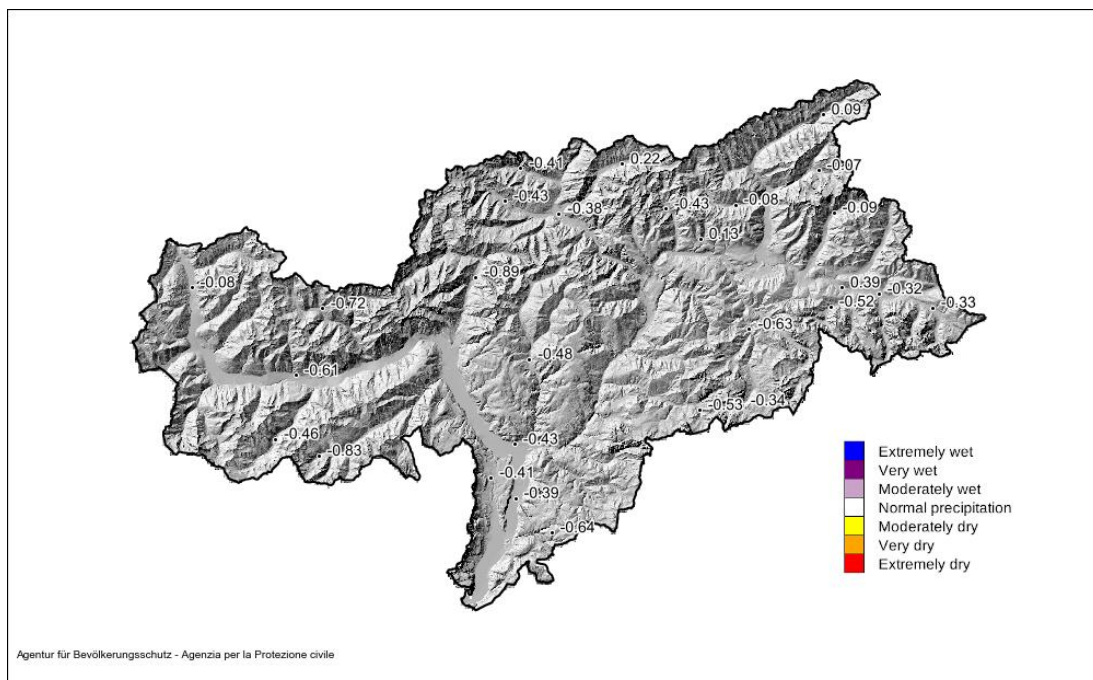
# Niederschläge Precipitazioni Rainfall



## Regionale Verteilung der Niederschläge | Precipitazioni areali | Regional rainfall



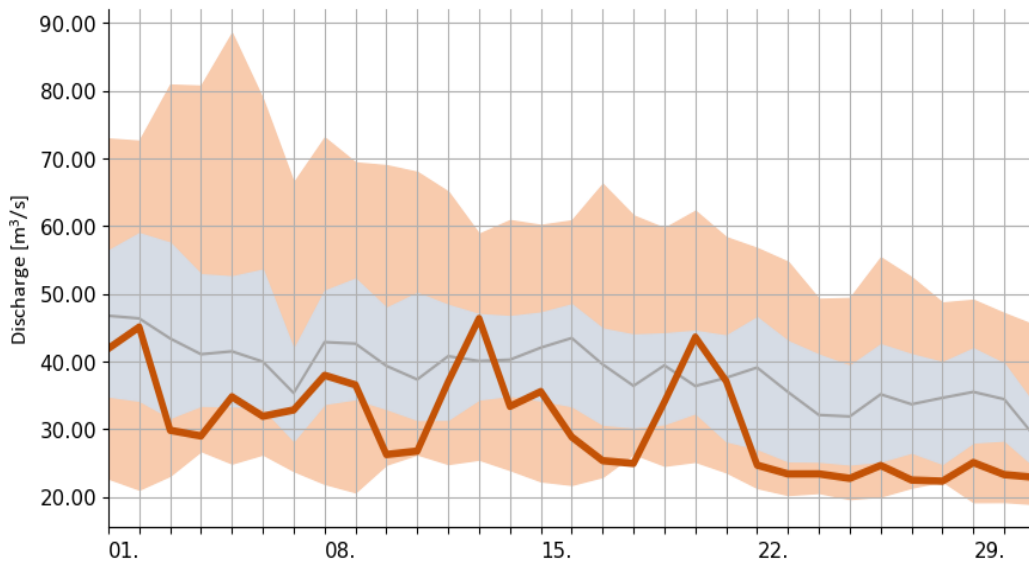
## Standardisierter Niederschlagsindex | Indice SPI | Standardised Precipitation Index



# Fließgewässer Corsi d'acqua Rivers



## Etsch, Sigmundskron | Adige, Ponte Adige



2723.0 km<sup>2</sup>

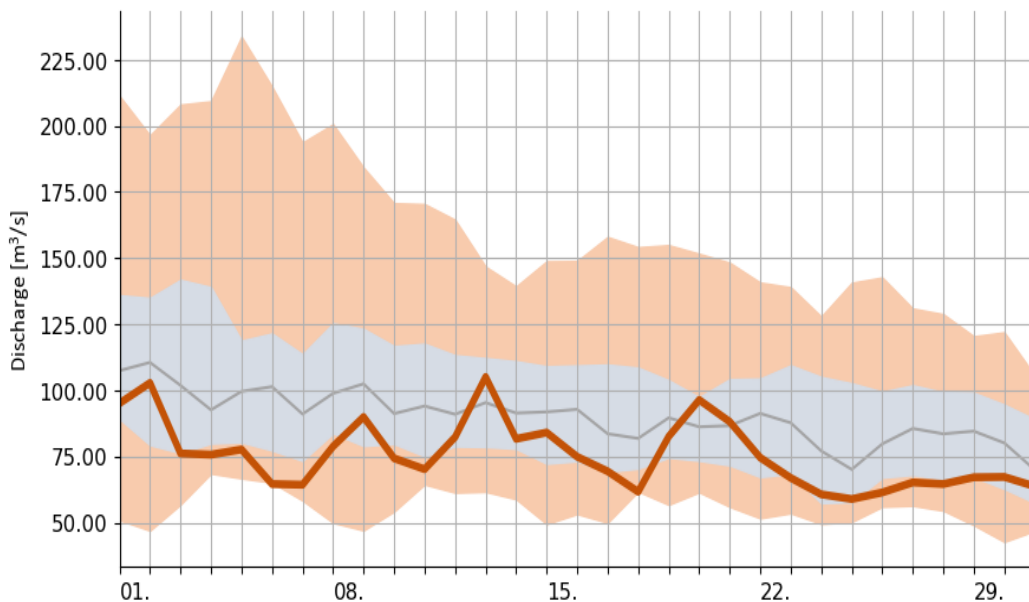


3893.0 m

1907.0 m

240.0 m

## Etsch, Branzoll | Adige, Bronzolo



6927.0 km<sup>2</sup>



3893.0 m

1804.0 m

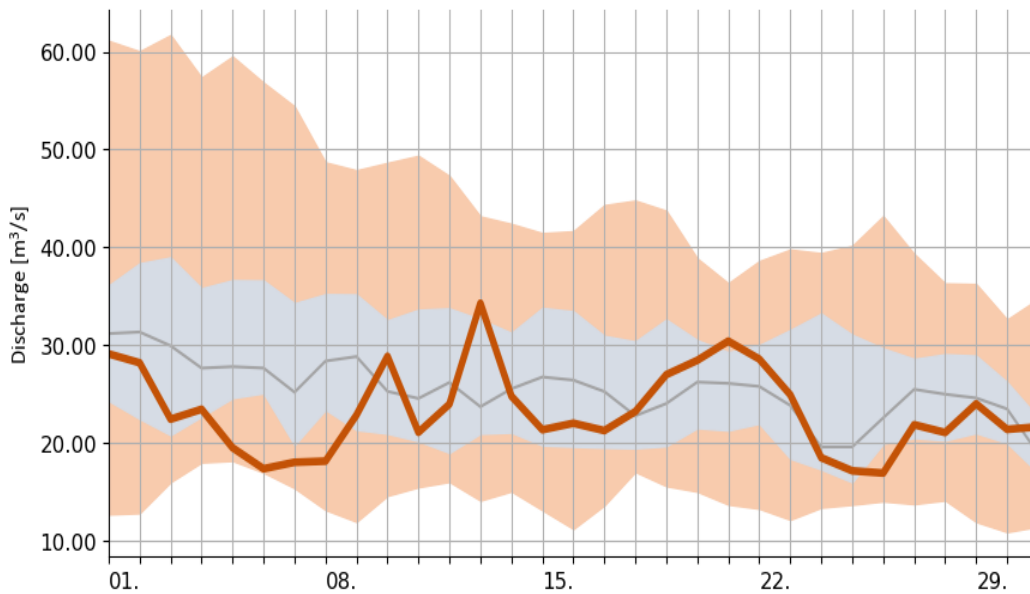
228.0 m

- Daily mean
- 5<sup>th</sup> + 95<sup>th</sup> percentile range
- 50<sup>th</sup> percentile
- 25<sup>th</sup> + 75<sup>th</sup> percentile range

# Fließgewässer Corsi d'acqua Rivers



## Rienz, Vintl | Rienza, Vandoies



1919.0 km<sup>2</sup>

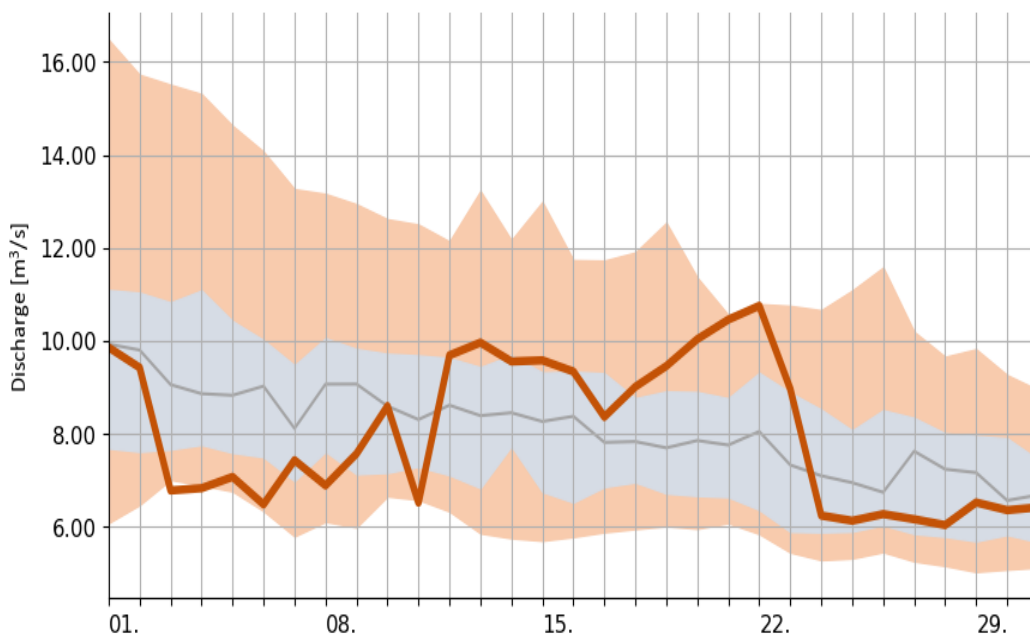


3498.0 m

1861.0 m

735.0 m

## Ahr, St.Georgen | Aurino, San Giorgio



613.0 km<sup>2</sup>



3470.0 m

2038.0 m

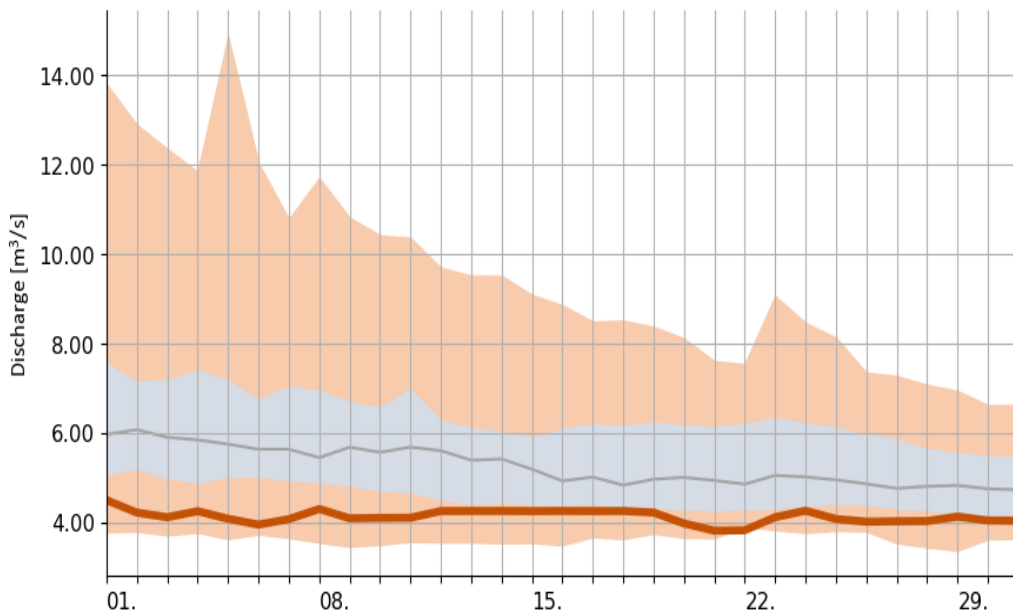
819.0 m

- Daily mean
- 5<sup>th</sup> + 95<sup>th</sup> percentile range
- 50<sup>th</sup> percentile
- 25<sup>th</sup> + 75<sup>th</sup> percentile range


# Fließgewässer Corsi d'acqua Rivers



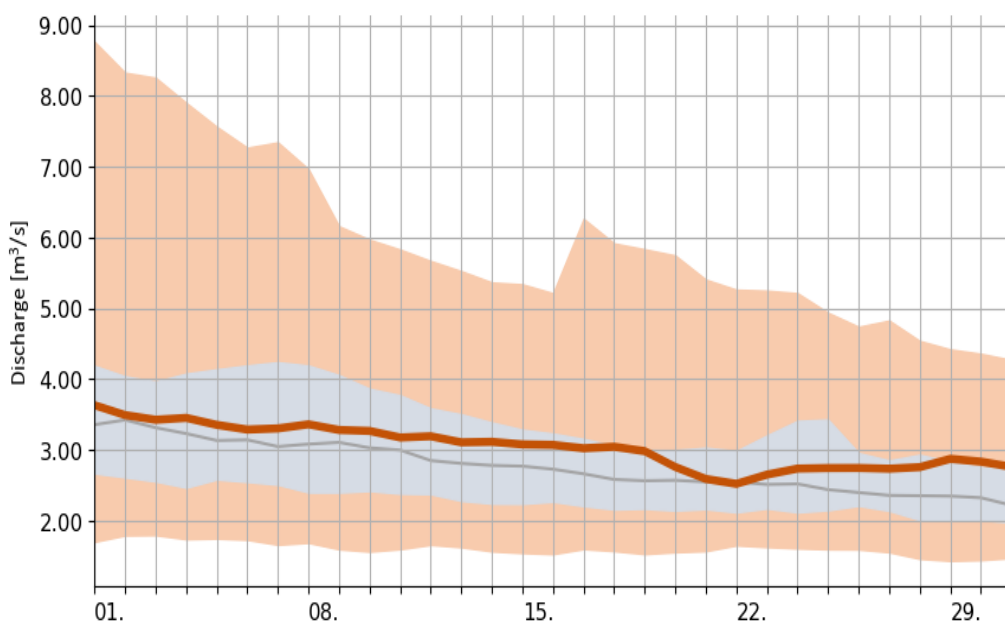
## Gader, Montal | Gadera, Mantana



 389.0 km<sup>2</sup>





 3120.0 m  
1856.0 m  
813.0 m

## Mareiterbach, Sterzing | Rio Ridanna, Vipiteno



 207.4 km<sup>2</sup>

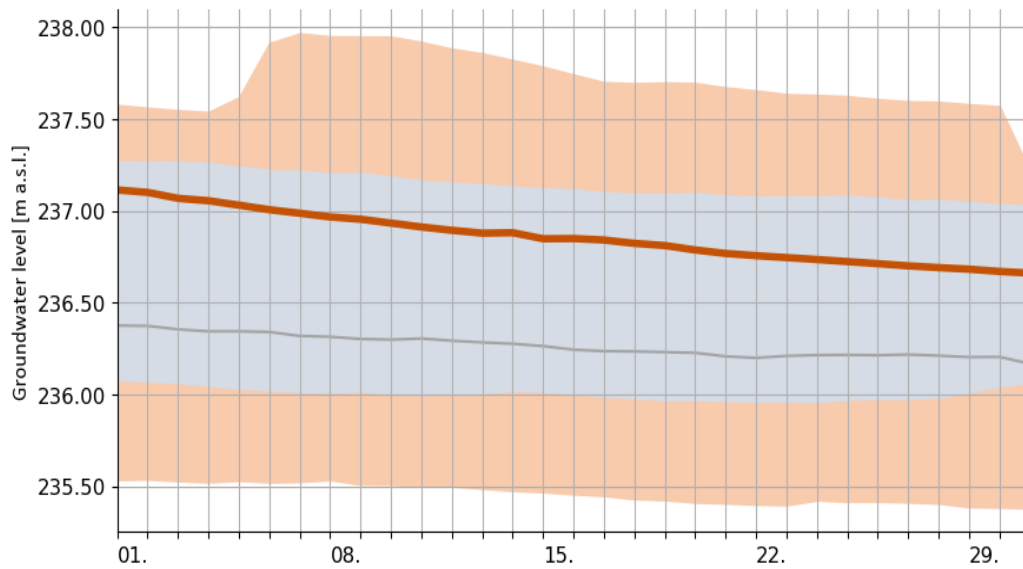
 3456.0 m  
1927.0 m  
939.0 m

 Daily mean  
 5<sup>th</sup> + 95<sup>th</sup> percentile range  
 50<sup>th</sup> percentile  
 25<sup>th</sup> + 75<sup>th</sup> percentile range

# Grundwasser Acque sotterranee Groundwater

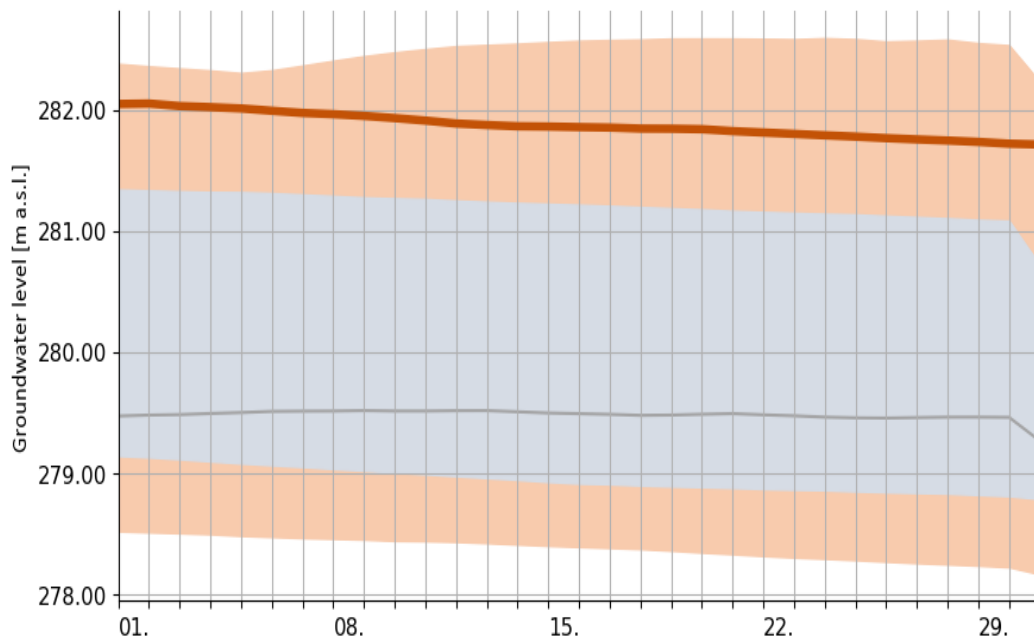


## Bozen, Einsteinstrasse | Bolzano, via Einstein







 241.2 m

## Meran, Viehmarkt | Merano, Foro Boario

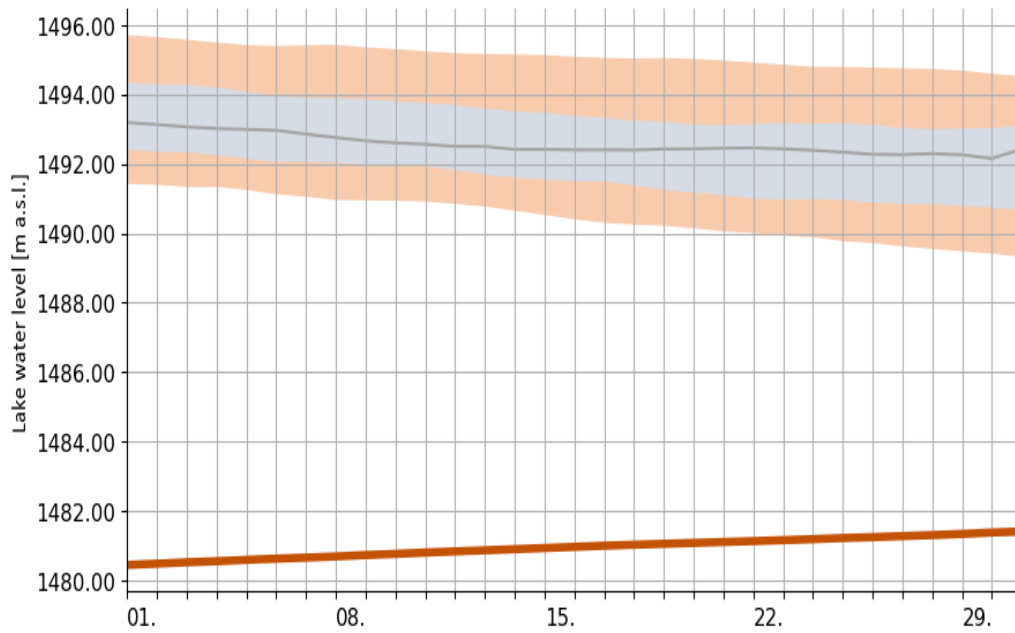


 301.2 m

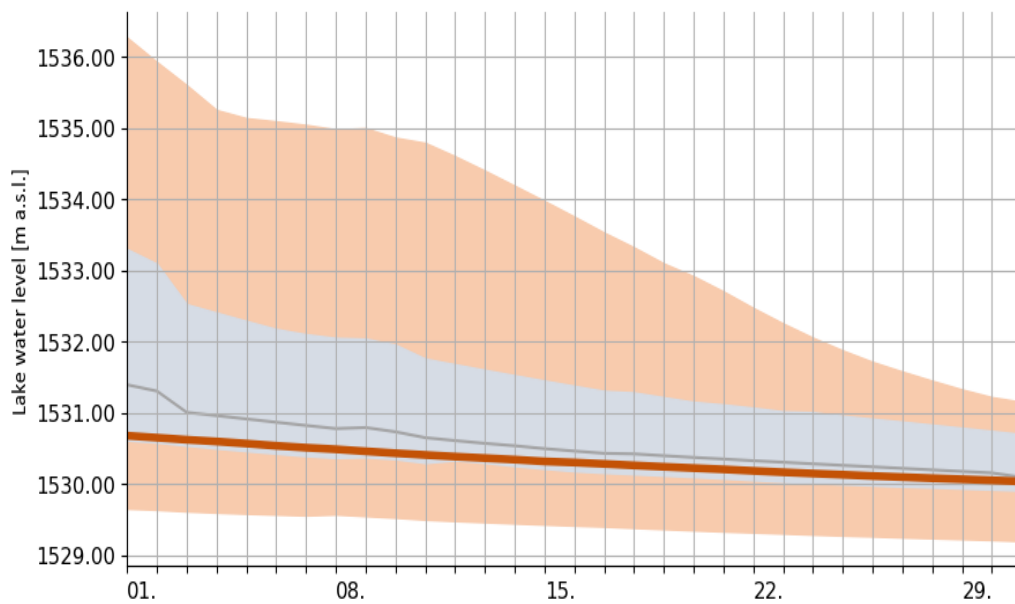
-  Daily mean
-  5<sup>th</sup> + 95<sup>th</sup> percentile range
-  50<sup>th</sup> percentile
-  25<sup>th</sup> + 75<sup>th</sup> percentile range



## Reschen Stausee | Lago artificiale di Resia



## Karersee | Lago di Carezza



- Daily mean
- 5<sup>th</sup> + 95<sup>th</sup> percentile range
- 50<sup>th</sup> percentile
- 25<sup>th</sup> + 75<sup>th</sup> percentile range

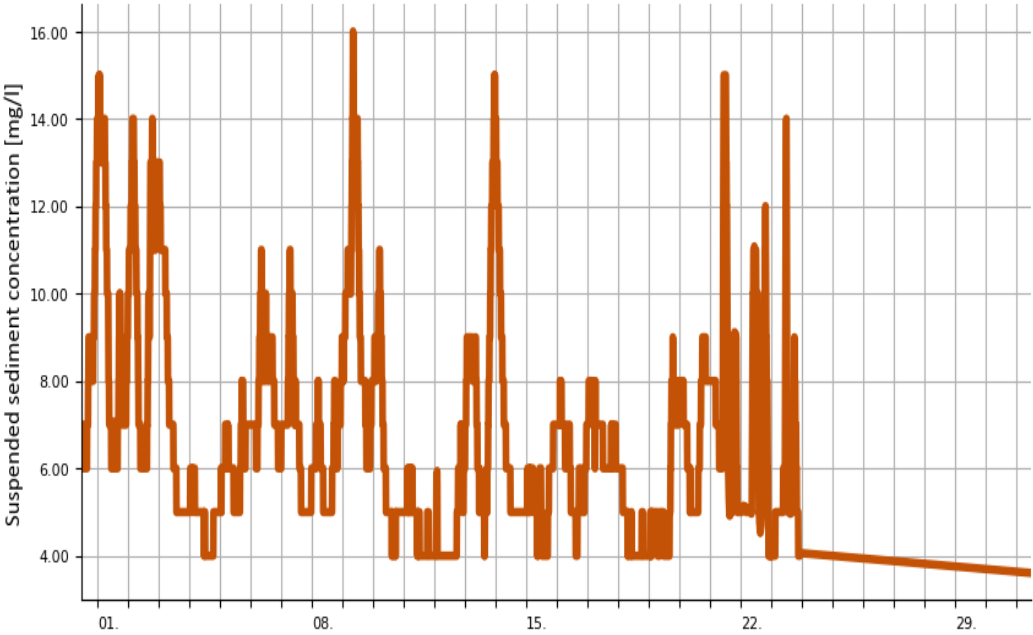
# Sedimentfracht

## Carico di sedimenti

### Sediment Load



Etsch, Salurn | Adige, Salorno



7146.0 km<sup>2</sup>



3905.0 m

1856.0 m

209.0 m

— High resolution value



**Regionale Verteilung der Niederschläge [mm]:** Räumliche Verteilung des Niederschlags, die durch Interpolation und Extrapolation der an den einzelnen Wetterstationen gemessenen monatlichen Niederschlagssummen gewonnen wird.

**Standardisierter Niederschlagsindex SPI:** Klimatologischer Index zur Identifikation von Niederschlagsüberschüssen und -defiziten (Trockenheit).

**Durchflussmenge [m<sup>3</sup>/s]:** Wasservolumen, das pro Zeiteinheit einen definierten Fließquerschnitt durchfließt.

**Grundwasserstand [m ü.M.]:** Höhe des Grundwasserspiegels, als Höhe über dem Meeresspiegel angegeben.

**Seewasserstand [m ü.M.]:** Höhe des Wasserspiegels, als Höhe über dem Meeresspiegel angegeben.

**Schwebstoffkonzentration [mg/l]:** Konzentration der Sedimente, die in Form von Suspensionen von Flüssen transportiert werden.

**Referenzperiode [Jahre]:** Langjährige Messperiode, die zur Berechnung der statistischen Normwerte (Perzentile) herangezogen wird. Nach Möglichkeit wird in diesem Bericht die 30-jährige WMO-Periode 1991-2020 verwendet.

**Perzentil:** Statistisches Lagemaß zur Beschreibung der mittleren hydrologischen Verhältnisse einer Station. Zum Beispiel ist das 95. Perzentil der Wert, unterhalb dessen 95% der Beobachtungen (in der Referenzperiode) liegen. Das 50. Perzentil, oder Median, teilt die Werte einer Verteilung in zwei gleich große Hälften.

**Precipitazioni areali [mm]:** distribuzione spaziale delle precipitazioni, che si ottiene per interpolazione ed estrapolazione delle cumulate mensili misurate alle singole stazioni meteorologiche.

**Indice SPI:** indice climatologico utilizzato per l'identificazione delle eccedenze e dei deficit di precipitazione (siccità).

**Portata [m<sup>3</sup>/s]:** volume d'acqua che attraversa una determinata sezione nell'unità di tempo.

**Altezza della falda [m s.l.m.]:** livello delle acque sotterranee, indicato come altezza sul livello del mare.

**Livello del lago [m s.l.m.]:** livello della superficie dell'acqua, indicato come altezza sul livello del mare.

**Concentrazione di solidi sospesi [mg/l]:** concentrazione dei sedimenti in sospensione trasportati dai fiumi.

**Periodo di riferimento [anni]:** periodo di misura pluriennale utilizzato per il calcolo dei valori statistici di riferimento (percentili). Laddove possibile, nel presente report viene utilizzato il periodo trentennale del WMO 1991-2020.

**Percentile:** indice statistico di posizione, utilizzato per descrivere le condizioni idrologiche medie di una stazione. Ad esempio, il 95° percentile è il valore al di sotto del quale si trova il 95% delle osservazioni (nel periodo di riferimento). Il 50° percentile, o valore mediano, divide i valori di una distribuzione in due parti uguali.

**Regional rainfall [mm]:** Spatial distribution of rainfall, which is obtained by interpolation and extrapolation of the cumulative monthly rainfall measured at the single weather stations.

**Standardised precipitation index SPI:** Climatological index, used for the identification of precipitation surpluses and deficits (drought).

**Discharge [m<sup>3</sup>/s]:** Volume of water that passes a given cross section of a watercourse over unit time.

**Groundwater level [m a.s.l.]:** Height of the water table, indicated as height above sea level.

**Lake water level [m a.s.l.]:** Height of the water surface, indicated as height above sea level.

**Suspended sediment concentration [mg/l]:** Concentration of suspended solids transported by rivers.

**Reference period [years]:** Multiannual measurement period used for the calculation of statistical reference values (percentiles). Where possible, the 30-year WMO period 1991-2020 is used in this report.

**Percentile:** Statistical value, used to describe the average hydrological conditions of a station. For example, the 95th percentile is the value below which 95% of the observations (in the reference period) are found. The 50th percentile, or median value, divides the values of a distribution into two equal parts.

### Kennwerte des Einzugsgebiets | Caratteristiche del bacino idrografico | Characteristics of the watershed



Stationsstandort mit Einzugsgebiet (dunkel)  
Posizione della stazione con bacino (scuro)  
Station location with catchment area (dark)



Einzugsgebietsfläche  
Area del bacino imbrifero  
Catchment area



Max., mittlere, min. Höhe  
Quota massima, media, minima  
Max., average, min. height

**Zuständiges Amt | Ufficio competente | Reference office**

Amt für Hydrologie und Stauanlagen | Ufficio Idrologia e dighe | Office for Hydrology and dams

**Verantwortlicher Direktor | Direttore responsabile | Responsible director**

Roberto Dinale

**Konzept | Ideazione | Concept**

Rudi Nadalet

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