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river discharge internet geography

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river discharge river discharge is the volume of water flowing through a river channel this is the total volume of water flowing through a channel at any given point and is measured in cubic metres per second cumecs the discharge from a drainage basin depends on precipitation evapotranspiration and storage factors

how streamflow is measured u s geological survey usgs gov

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discharge is the volume of water moving down a stream or river per unit of time commonly expressed in cubic feet per second or gallons per day in general river discharge is computed by multiplying the area of water in a channel cross section by the average velocity of the water in that cross section discharge area x velocity

streamgaging basics u s geological survey usgs gov

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diagram of how streamgage data is transferred to the internet credit v b sauer and d p turnipseed usgs discharge measurement streamflow or discharge is the volume of water moving down a stream or river per unit of time commonly expressed in cubic feet per second or gallons per day

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river discharge is a volumetric measure of water flowing through the channel of a river past a point in unit time it is generally expressed in units of feet cubed

stream measurements how to calculate river velocity discharge

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discharge is the flow of water in a stream you can calculate discharge by multiplying the velocity of the stream by the approximate cross sectional area of the stream return to the same place where you measured the velocity in part 1 in this same place measure the width of your stream

remotely sensed discharge u s geological survey

usgs gov

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the u s geological survey is actively pursuing remote sensing platforms to compute river discharge using a combination of satellite high altitude drone and fixed based platforms to directly measure river width hydraulic grade and velocity

streamflow what is it and how do we measure it land

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generally discharge q ft^3/s or m^3/s is calculated as the velocity v ft/s or m/s of water moving through a unit area a ft^2 or m^2 $q = v a$ measures of discharge can range widely depending on the size and location of the stream as well as groundwater levels and recent precipitation

rivers and streams life in flowing water learn science at

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discharge the quantity of water passing a certain river or stream location per unit time expressed as units of volume per unit time e g cubic meters per second

chapter 5 rivers mit opencourseware

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things like sediment movement channel changes broader river valley processes drainage network development and the long term evolution of rivers river valleys and drainage systems 2 some basic characteristics of rivers rivers have a wide range in size as measured by either water discharge sediment discharge or length

fresh water river discharge earthdata

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fresh water river discharge discharge is the volume rate of water flow including any suspended solids i e sediment dissolved chemical species i e CaCO_3 aq and or biologic material i e diatoms which is transported through a given cross sectional area

virtual river sciencecourseware org

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here you will find two interactive exercises designed to help you learn about river processes like discharge flooding and flood frequency each activity requires you to make careful observations and measurements do simple calculations and answer questions about your work

002 river discharge and hydrographs geogalot com

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hydrographs help to show the discharge of a river at a given point in space and time they are important in helping plan for flooding and monitoring change go through the following slide show and answer the following questions to give you a basic understanding of what a hydrograph is and how it can be interpreted

river discharge storm hydrograph a level geography

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river discharge river discharge is the volume of water flowing through a river channel this is the total volume of water flowing through a channel at any given point and is measured in cubic metres per second cumecs the discharge from a drainage basin depends on precipitation evapotranspiration and storage factors

hydrology and discharge large rivers wiley online library

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citations 1 pdf tools share summary the climate and hydrology of each of the world's major river drainages are inherently diverse because these drainages cover such large areas that they encompass diverse atmospheric circulation patterns geology topography vegetation and land use

list of rivers by discharge wikipedia

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this article lists rivers by their average discharge measured in descending order of their water flow rate here only those rivers whose discharge is more than 2 000 m³ s⁻¹ 71 000 cu ft s are shown it can be thought of as a list of the biggest rivers on earth measured by a specific metric

nasa led study provides new global accounting of earth's

Dec 12 2022

a nasa led study combined stream gauge measurements with computer models of 3 million river segments to create a global picture of how much water earth's rivers hold it estimated that the amazon basin contains about 38 of the world's river water the most of any hydrological region evaluated nasa the scientists estimate that the total

solved q5 the actual river discharge observed

over a 63 km²

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solved q5 the actual river discharge observed over a 63 km² chegg com engineering civil engineering questions and answers q5 the actual river discharge observed over a 63 km² catchment a from the 2 hr storm is shown in the table q5a below 5a derive a 2 hr unit hydrograph 2hr uh using the data in the table

river erosion se gizmo name michee odin date 11 12

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record the slope speed and discharge of the stream click play wait until the end of the simulation and record the same data year channel slope river speed discharge 0 22 m km 1 m s 2 m 3 s 200 000 14 m km 0 m s 2 m 3 s how does the stream data change over time the channel slope and river speed is less in 200 000 but the discharge is

solved the river s discharge q increases in the downstream

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science earth sciences questions and answers the river s discharge q increases in the downstream direction which stream variable is directly related to discharge channel width or stream gradient this problem has been solved you ll get a detailed solution from a subject matter expert that helps you learn core concepts see answer

forecasting the river water discharge by artificial mdpi

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the management of water resources must be based on accurate models of the river discharge in the context of the water flow alteration due to anthropic influences and climate change therefore this article addresses the challenge of detecting the best model among three artificial intelligence techniques ai backpropagation neural networks bpnn long short term memory lstm and extreme

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