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Which hydrological information is written in the morphology of the catchments ?

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Many ungauged basins exist on Earth but the number of which terrain models is not available is becoming practically null. Thus exploiting this information is not only necessary but a valuable method to reduce the extent of the missing knowledge. The importance of the morphology of the river basin in determining the shape of river discharges is reviewed. The interplay between precipitation and catchment's shape and dimension is also discussed. The role of vegetation cover distribution is also analyzed.