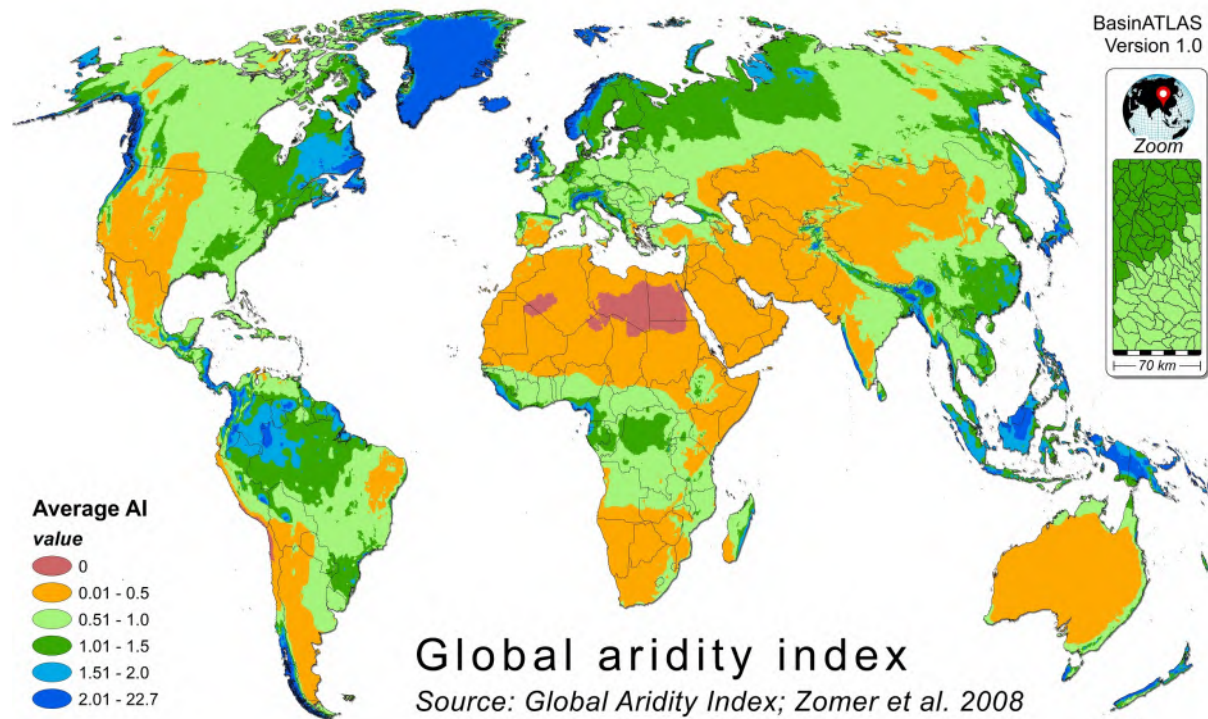


Category	Climate	ID-C07	>>> Back to Attribute List
Attribute	Global Aridity Index		
Source data	Global Aridity Index v1		
Citation:	Zomer et al. 2008	Native format:	30 arc-second grid
Units:	index value (x100)		
Column name	ari_ix_{xoo}	(for syntax options of suffix {xoo} see next lines)	
Spatial extent {x}:	{s} in sub-basin {u} in total watershed upstream of sub-basin pour point		
Dimension {oo}:	{av} average		
Existing suffixes {xoo}:	sav uav		



Data description	The Global Aridity Index (Global-Aridity) is modeled using data from WorldClim as input parameters. Aridity is usually expressed as a generalized function of precipitation, temperature, and/or potential evapotranspiration (PET). For this global aridity index, it was calculated as mean annual precipitation over mean annual PET, i.e. rainfall over vegetation water demand (aggregated on an annual basis). Under this formulation, the aridity index values increase with more humid conditions, and decrease with more arid conditions. An aridity index value of 0 represents areas of no precipitation, a value of 1 represent areas where precipitation equals PET, and a value >1 represents areas where precipitation exceeds PET. Note that maximum values were capped at 100.
Reference	Zomer, R.J., Trabucco, A., Bossio, D.A., van Straaten, O., Verchot, L.V. (2008). Climate change mitigation: A spatial analysis of global land suitability for clean development mechanism afforestation and reforestation. <i>Agriculture, Ecosystems & Environment</i> , 126(1), 67-80.
Website	https://cgiarcsi.community/data/global-aridity-and-pet-database
License	Original: Free for non-commercial use -- HydroATLAS: Creative Commons CC-BY 4.0
Additional information	In the stored data, index values are multiplied by 100 (i.e. value 100 means 1). Additional required citation: Trabucco, A., Zomer, R.J., Bossio, D.A., van Straaten, O., Verchot, L.V. (2008). Climate change mitigation through afforestation/reforestation: A global analysis of hydrologic impacts with four case studies. <i>Agriculture, Ecosystems and Environment</i> , 126, 81-97.