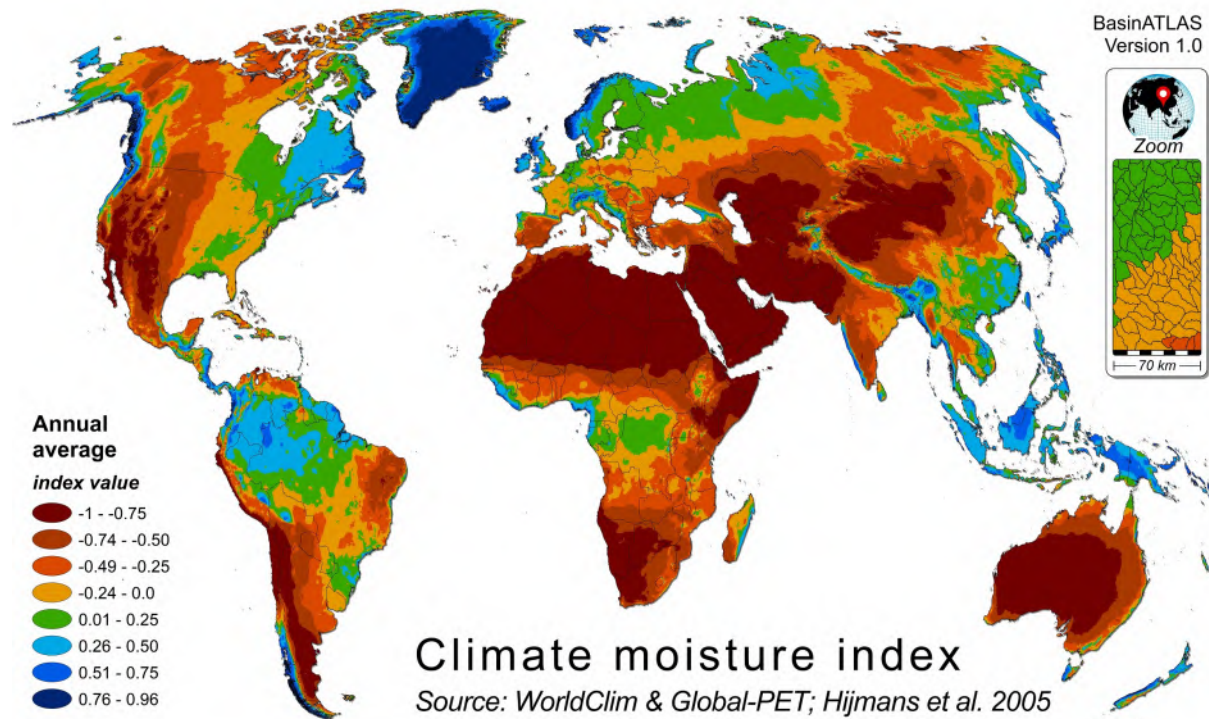


Category	Climate	ID-C08	>>> Back to Attribute List
Attribute	Climate Moisture Index		
Source data	WorldClim v1.4 and Global-PET v1		
	Citation: Hijmans et al. 2005	Native format: 30 arc-second grids	Units: index value (x100)
Column name	cmi_ix_{xoo} (for syntax options of suffix {xoo} see next lines)		
Spatial extent {x}:	{s} in sub-basin {u} in total watershed upstream of sub-basin pour point		
Dimension {oo}:	{yr} annual average {01-12} monthly average		
Existing suffixes {xoo}:	syr s01-s12 uyr		



Data description	The Climate Moisture Index (CMI) was derived from the annual precipitation (P) and potential evapotranspiration (PET) datasets as provided by the WorldClim v1.4 (Hijmans et al. 2005) and Global-PET v1 (Zomer et al. 2008) databases, respectively. The CMI was calculated using the equations presented in Willmott and Feddema (1992, see Website link below): $[CMI = (P / PET) - 1 \text{ when } P < PET]$ or $[CMI = 1 - (PET / P) \text{ when } P \geq PET]$. The resulting values range from -1 to 1.
Reference	Hijmans, R.J., Cameron, S.E., Parra, J.L., Jones, P.G., Jarvis, A. (2005). Very high resolution interpolated climate surfaces for global land areas. <i>International Journal of Climatology</i> , 25(15), 1965-1978.
Website	http://climate.geog.udel.edu/~climate/publication_html/Pdf/WF_ProfGeog_92.pdf
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: 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.