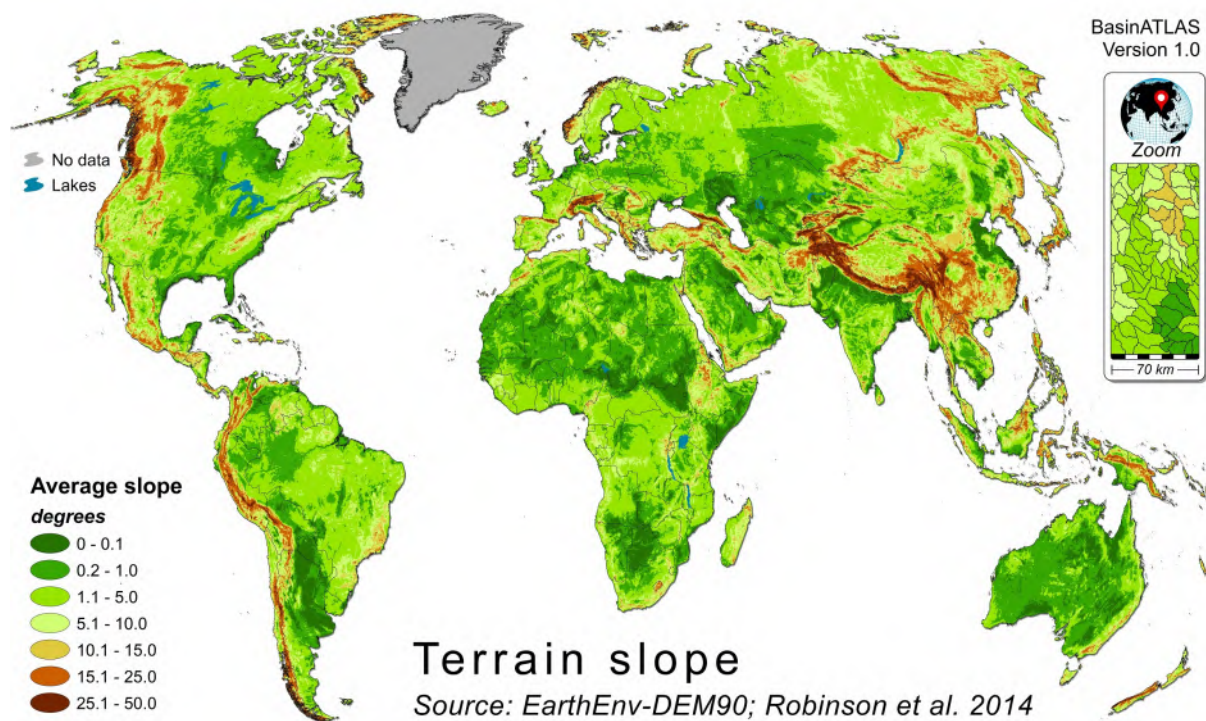


Category	Physiography	ID-P02	>>> Back to Attribute List
Attribute	Terrain Slope		
Source data	EarthEnv-DEM90		
	Citation: Robinson et al. 2014	Native format: 3 arc-second grid	Units: degrees (x10)
Column name	slp_dg_{xoo} <i>(for syntax options of suffix {xoo} see next lines)</i>		
	Spatial extent {x}: {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	EarthEnv-DEM90 is a digital elevation model that provides elevation values for a pixel resolution of 3 arc-seconds (approximately 90m at the equator). It is derived from CGIAR-CSI SRTM v4.1 and ASTER GDEM v2 data products, representing conditions of 2000-2010. These data have been processed and merged to provide a continuous coverage between 60°S and 83°N. Slope values were computed at 3 arc-second resolution based on Horn's method with latitudinal corrections for the distortion in the XY spacing of geographic coordinates by approximating the geodesic distance between cell centers. For inclusion in HydroATLAS, the high-resolution results were first aggregated into a 15 arc-second resolution using the 'mean' statistic.
Reference	Robinson, N., Regetz, J., Guralnick, R.P. (2014). EarthEnv-DEM90: A nearly-global, void-free, multi-scale smoothed, 90m digital elevation model from fused ASTER and SRTM data. ISPRS Journal of Photogrammetry and Remote Sensing, 87, 57-67. doi: 10.1016/j.isprsjprs.2013.11.002.
Website	http://www.earthenv.org/DEM
License	Creative Commons CC-BY 4.0
Additional information	In the stored data, degree values are multiplied by 10 (i.e. value 10 means 1 degree). NoData values (-9999) were assigned to all of Greenland because calculated slopes were not within reasonable ranges due to substantial outliers in DEM over the Greenland ice sheet.