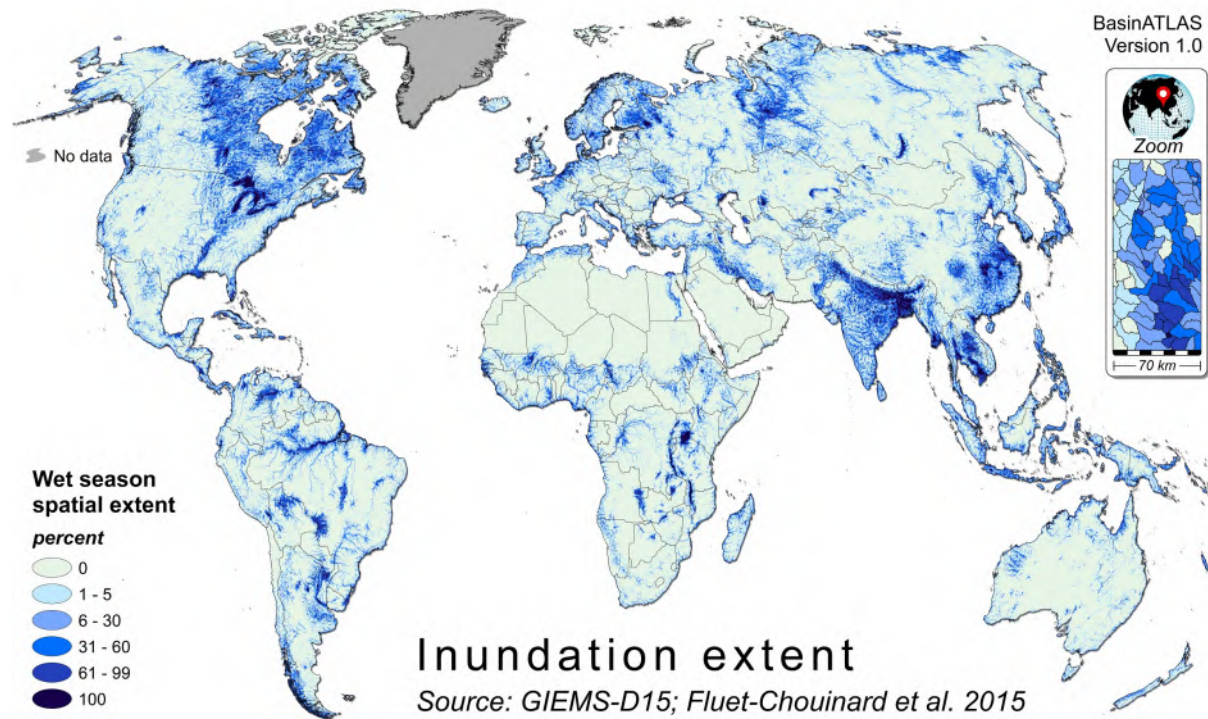


Category	Hydrology	ID-H03	>>> Back to Attribute List
Attribute	Inundation Extent		
Source data	Global Inundation Extent from Multi-Satellites (GIEMS-D15)		
	Citation: Fluët-Chouinard et al. 2015	Native format: 15 arc-second grid	Units: percent cover
Column name	inu_pc_{xoo} (for syntax options of suffix {xoo} see next lines)		
	Spatial extent {x}: {s} in sub-basin {u} in total watershed upstream of sub-basin pour point		
	Dimension {oo}: {mn} annual minimum {mx} annual maximum {lt} long-term maximum		
	Existing suffixes {xoo}: smn smx slt umn umx ult		



Data description	GIEMS-D15 is a high-resolution global inundation map at a pixel size of 15 arc-seconds (approximately 500m at the equator). The map was generated by downscaling inundated area estimates from the Global Inundation Extent from Multi-Satellites (GIEMS, Prigent et al. 2007) for the years 1993-2004, and bias-adjusting them with wetland extents from the Global Lakes and Wetlands Database (GLWD, Lehner and Döll 2004). GIEMS-D15 represents three states of land surface inundation extents: mean annual minimum (permanently inundated), mean annual maximum (seasonally inundated), and long-term maximum (areas affected by extreme flood events).
Reference	Fluët-Chouinard, E., Lehner, B., Rebelo, L. M., Papa, F., & Hamilton, S. K. (2015). Development of a global inundation map at high spatial resolution from topographic downscaling of coarse-scale remote sensing data. <i>Remote Sensing of Environment</i> , 158, 348-361.
Website	http://www.estellus.fr/index.php?static13/giems-d15
License	Creative Commons CC-BY 4.0
Additional information	Further readings: Prigent, C., Papa, F., Aires, F., Rossow, W.B., Matthews, E. (2007). Global inundation dynamics inferred from multiple satellite observations, 1993-2000. <i>Journal of Geophysical Research</i> , 112(D12107), 1-13. Lehner, B., Döll, P. (2004). Development and validation of a global database of lakes, reservoirs and wetlands. <i>Journal of Hydrology</i> , 296(1), 1-22.