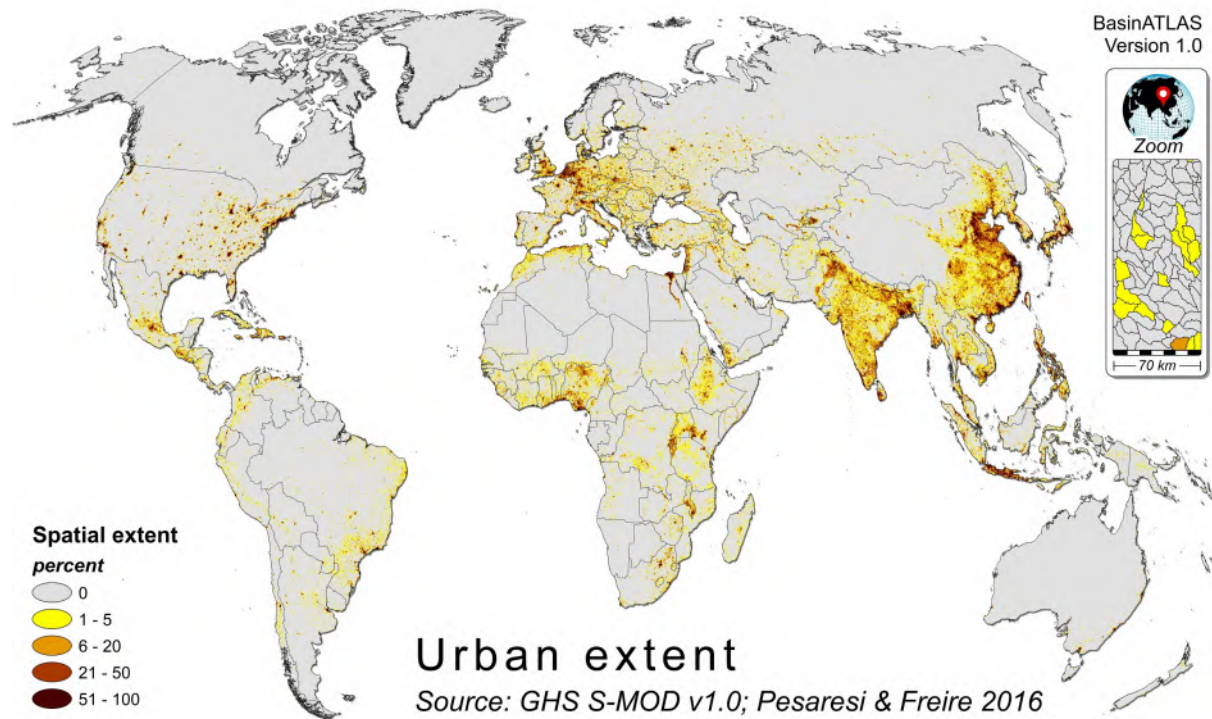


|                          |                                                                              |                                                     |                                            |
|--------------------------|------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------|
| Category                 | Anthropogenic                                                                | ID-A03                                              | >>> <a href="#">Back to Attribute List</a> |
| Attribute                | Urban Extent                                                                 |                                                     |                                            |
| Source data              | Global Human Settlement (GHS) Settlement Model v1.0 (2016)                   |                                                     |                                            |
| Citation:                | Pesaresi & Freire 2016                                                       | Native format:                                      | 1-km grid                                  |
|                          |                                                                              | Units:                                              | percent cover                              |
| Column name              | urb_pc_{xoo}                                                                 | (for syntax options of suffix {xoo} see next lines) |                                            |
| Spatial extent {x}:      | {c} in reach catchment   {u} in total watershed upstream of reach pour point |                                                     |                                            |
| Dimension {oo}:          | {se} spatial extent (%)                                                      |                                                     |                                            |
| Existing suffixes {xoo}: | cse   use                                                                    |                                                     |                                            |



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data description</b>       | The Global Human Settlement (GHS) framework produces global spatial information about the human presence on the planet over time. This achieved in the form of built-up maps, population density maps and settlement maps. This information is generated with evidence-based analytics and knowledge using new spatial data mining technologies. The framework uses heterogeneous data including global archives of fine-scale satellite imagery, census data, and volunteered geographic information. The data is processed fully automatically and generates analytics and knowledge reporting objectively and systematically about the presence of population and built-up infrastructures. |
| <b>Reference</b>              | Pesaresi, M., Freire, S. (2016). GHS Settlement grid following the REGIO model 2014 in application to GHSL Landsat and CIESIN GPW v4-multitemporal (1975-1990-2000-2015). European Commission, Joint Research Centre (JRC). PID: <a href="http://data.europa.eu/89h/jrc-ghsl-ghs_smod_pop_globe_r2016a">http://data.europa.eu/89h/jrc-ghsl-ghs_smod_pop_globe_r2016a</a>                                                                                                                                                                                                                                                                                                                       |
| <b>Website</b>                | <a href="https://ghsl.jrc.ec.europa.eu/">https://ghsl.jrc.ec.europa.eu/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>License</b>                | Creative Commons CC-BY 4.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Additional information</b> | HydroATLAS uses the settlement model grid (GHS-SMOD) for the year 2015 (dataset name: GHS_SMOD_POP2015_GLOBE_R2016A_54009_1k). Codes 0 (unpopulated) and 1 (rural areas) were classified as rural; and codes 2 (low density clusters) and 3 (high density clusters) were classified as urban.                                                                                                                                                                                                                                                                                                                                                                                                  |