JRC Dataset


Description:
The Global Human Settlement Layer (GHSL) project is supported by European Commission, Joint Research Center and Directorate-General for Regional and Urban Policy. The GHSL produces new global spatial information, evidence-based analytics, and knowledge describing the human presence in the planet. The GHSL relies on the design and implementation of new spatial data mining technologies allowing to process automatically and extract analytics and knowledge from large amount of heterogeneous data including: global, fine-scale satellite image data streams, census data, and crowd sources or volunteering geographic information sources. Spatial data reporting objectively and systematically about the presence of population and built-up infrastructures are necessary for any evidence-based modelling or assessing of i) human and physical exposure to threats as environmental contamination and degradation, natural disasters and conflicts, ii) impact of human activities on ecosystems, and iii) access to resources. This dataset is an aggregated confidence map about built-up area presence. This layer is a complementary information to the multitemporal GHS built-up grid (1975, 1990, 2000, 2014), which has been produced by means of Global Human Settlement Layer methodology in 2014. Similarly to the main product, it is published in the production grid at high resolution, i.e. at around 38m in Spherical Mercator (EPSG:3857).

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How to cite:

Keywords:
Confidence layer, GHSL, Landsat, built-up density, global map, remote sensing

Related resources:
Data access
GHS_BUILT_LDSMTCNFD_GLOBE_R2015B
The data is distributed in the production grid at high resolution, i.e. at around 38m in Spherical Mercator (EPSG:3857). The compressed ZIP contains compressed TIF file and short documentation.

Publications
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Other resources
GHSL Data Packages. Instructions for data access. V1.0