

GHS_BUILT_LDSMTIDC_GLOBE_R2018A

GHSL Data Product Descriptor

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Aneta J. Florczyk
Disaster Risk Management
Space, Security & Migration, JRC-ISPRA EC

Data Product ID: GHS_BUILT_LDSMTIDC_GLOBE_R2018A

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Data Product Title: GHS built-up grid input data, Landsat multitemporal collections (1975-1990-2000-2014), R2018A

Publisher: JRC Open Data repository <http://data.jrc.ec.europa.eu/collection/GHSL>

Data Linkage Website: <http://ghsl.jrc.ec.europa.eu/>

Point of contact: jrc-ghsl-data@jrc.ec.europa.eu

Data access: The GHSL can be downloaded for free. No registration is needed.

Usage constraints: The GHSL has been produced by the EC JRC as open and free data – Reuse is authorised, provided the source is acknowledged. For more information, please read the use conditions ([European Commission Reuse and Copyright Notice](#)).

Data usage: The dataset can be opened by means of GDAL-compatible GIS/Remote Sensing tools, such as **QGIS (open source software)** or **ArcGIS (commercial software by ESRI)**.

Recommended citation: The dataset citations can be found at JRC Open Data portal.

Content description:

This dataset provides basic information on the input data collections used in production of the GHS BUILT grids R2018. The collections processed are mainly the [Global Land Survey](#) datasets (GLS1975, GLS1990, GLS2000), and a Landsat-8 image collection (an ad-hoc collection named GUS2014).

The data product consists in four datasets, describing the input data collections:

- GHS_BUILT_GUS2014_GLOBE_R2018A_4326_V1_0
- GHS_BUILT_GLS2000_GLOBE_R2018A_4326_V1_0
- GHS_BUILT_GLS1990_GLOBE_R2018A_4326_V1_0
- GHS_BUILT_GLS1975_GLOBE_R2018A_4326_V1_0

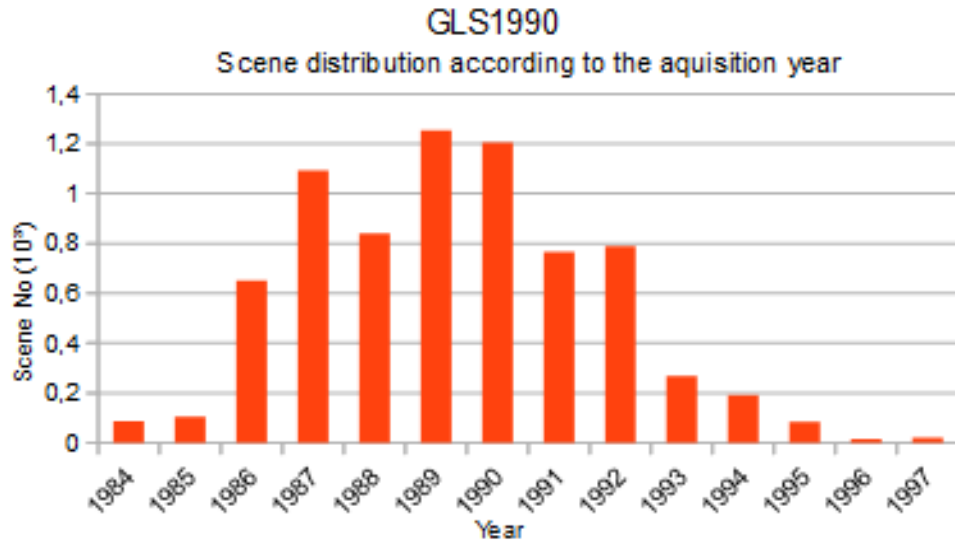
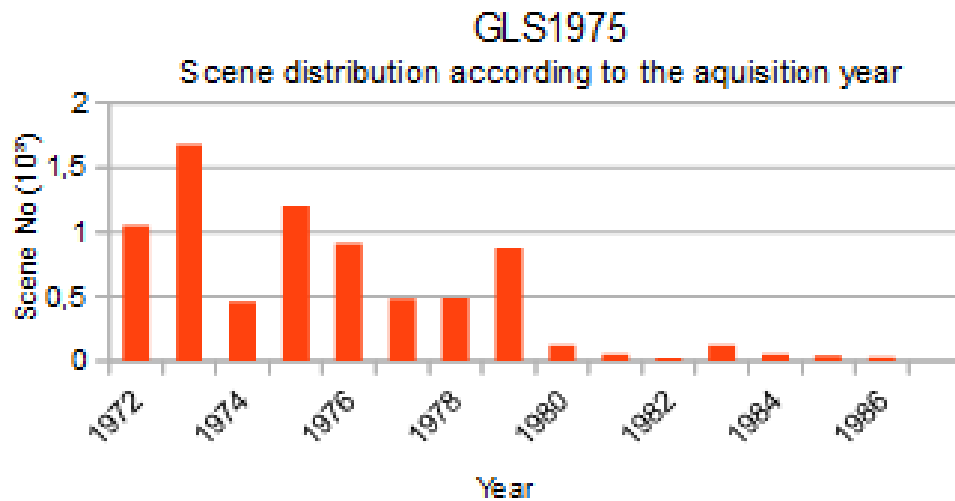
Per each collection, a list of footprints of the scenes is provided, with basic metadata (unique identifier, path/row if available, temporal stamp and scene projection).

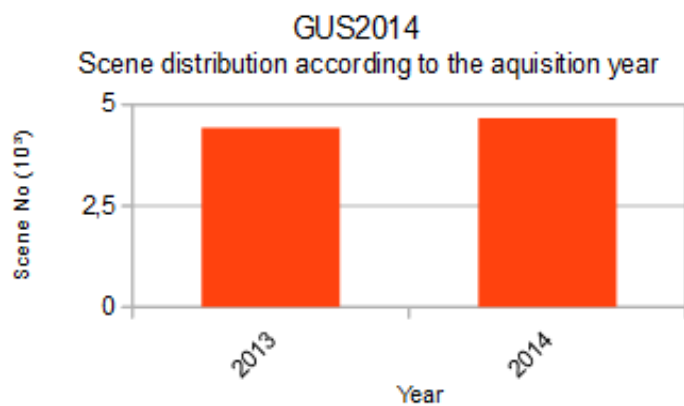
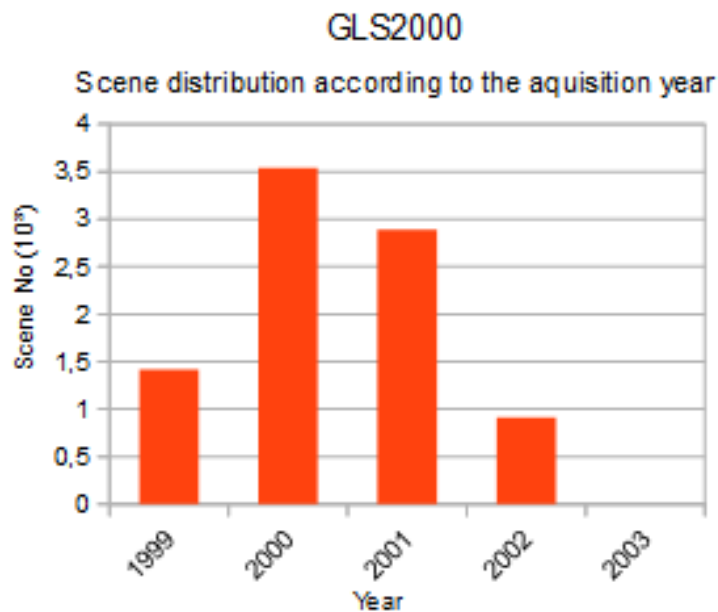
The temporal dimension of the input imagery, i.e., the Landsat multitemporal collections, is summarised in Table 1 and Figures below.

Table 1. Analysis of the year of acquisition of scenes per each collection.

	GUS2014	GLS2000	GLS1990	GLS1975
Number of Scenes	9.089	8.756	7.375	7.588
min year	2013	1999	1984	1972
max year	2014	2003	1997	1987
average of year	2013.51	2000.34	1989.29	1975.41
mode of year	2014	2000	1989	1973
variance of year	0.25	0.77	5.44	8.19

The Figures below show the acquisition year frequency of scenes per each collection.





The Figures below show the percentage of collection per different temporal spans that warp the nominal year. For example, we can observe that more than 80% of scenes of GLS1990 and GLS2000 are from periods between 1987-1993 and 1999-2001, respectively.

