Metadata set: Digital Altitude Model Flanders II, DTM, grid, 1 m

Identification

Version dataset (series): 2014.01

Creation: 11/03/2014

Publication: 11/13/2014

Content

General

Summary: Digital terrain model (DTM) of the ground level in grid format with a ground resolution of 1 meter. This DTM was derived from LiDAR elevation data provided in the context of the Digital Elevation Model Flanders II (DHMV II) were recruited.

This product is supplemented with an object 'flight day contour DHMV' that for each part of the DTM the accurate recording data.

The product is collected over the period 2013-2015 and will be released gradually. The object 'stand of cases DHMV II 'indicates where data is already available.

Purpose of manufacture: The DTM in raster format is a derivative of the source data 'LiDAR Digital Altitude model Flanders II - raw remote sensing data '. The grid format allows this product in use a wide range of applications without the need for specific software.

The DTM is suitable for the representation and modeling of the ground level.

Additional information: More information about the Digital Altitude Model Flanders II can be found can be found on the following website: https://www.agiv.be/producten/digitaal-hoogtemodel-vlaanderen

Status: under development

Contact details dataset (series)

Owner

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Dataset preview (series)

1/7

AGIV - 11/17/2014

Page 2

Keywords)

GEMET - INSPIRE themes, version 1.0

Height

GEMET - Concepts, version 2.4

geography, elevation

GDI-Flanders Keywords

Metadata INSPIRE compliant, Metadata GDI-Vl compliant, Flemish Open data

Other keywords

DTM, DIGITAL TERRAIN MODEL, Digital Elevation Model Flanders II, DHMV II, DHM

Spatial schema dataset (series)

grid

Spatial resolution dataset (series)

Application scale: 1m

Language dataset (series)

Dutch

Category (ies)

Height

Limitation

Geographic boundary description: current boundary

Geographic boundary identifier: Flemish Region and Brussels-Capital Region

Minimum longitude: 2.54154 °

Maximum longitude: 5.92 °

Minimum latitude: 50.6756 °

Maximum latitude: 51.51 °

Describing rectangle:

Page 3

Temporal limit: 20/02/2013 to

Usage / Application

Related dataset (series) s

Digital Altitude Model Flanders II, DTM, raster, 1m, test data

Data set version (series): 1.0

Creation: 24/05/2013

Publication: 05/06/2013

Dataset identifier: 3357EE03-8F26-42C8-AE58-A61EEF4E468A

Metadata identifier (fileIdentifier): 11673FAA-B8D4-40C4-8C61-EB838AB7BAFA

Relationship type: cross-referenced

Digital Elevation Model Flanders II, DTM, grid, 5 m

Data set version (series): 1.0

Creation: 11/03/2014
Dataset identifier: 412ec86f-bd36-499e-8eaf-20d73ebec23a

Metadata identifier (fileIdentifier): 9b0f82c7-57c4-463a-8918-432e41a66355

Relationship type: cross-referenced

Digital Elevation Model Flanders II, DSM, grid, 1 m

Data set version (series): 1.0

Creation: 11/03/2014

Dataset identifier: 1fe1791a-3502-4d56-a366-b76fdd30f199

Metadata identifier (fileIdentifier): 0da2e5e4-6886-426b-bb82-c0ffe6faeff6

Relationship type: cross-referenced

Horizontal and / or vertical reference system

Horizontal reference system: EPSG: 31370

Horizontal reference system: NGI: TAW

Quality

Operation (s)

General description of origin: Digital Elevation Model Flanders II (DHMV II)

Operations:

1. **Description:** Elevation data acquisition using LiDAR technology from an aircraft.

   The resulting point cloud has an average point density of at least 8 points per m^2 per

   flight lane, in which there is in flight a transverse overlap of at least 50% between adjacent ones

   flying strips are provided.

   Edited by: Eurosense Belfotop BVBA

   Edited by: Fugro Geospatial BV

2. **Description:** Processing of the point cloud into source data with the following characteristics:

   absolute planimetric accuracy: RMSExy less than or equal to 0.10m

   absolute altimetric accuracy: RMSEz less than or equal to 0.05m

Page 4

filtering between the classes: 'ground level', 'water' and 'not ground level'

Edited by: Eurosense Belfotop BVBA

Edited by: Fugro Geospatial BV

3. **Description:** Creation of the DTM based on the 'ground level' highlights using the

   interpolation algorithm "streaming TINs via spatial finalization & streaming Delaunay"

   (http://www.cs.berkeley.edu/~jrs/papers/tin2dem.pdf).

   Edited by: Agency for Geographic Information Flanders

4. **Description:** Creation of the raster file with the following specifications:

   format: geoTIFF

data type: 32bit float

pixel resolution: 1m

NoData Value: -9999

compression: deflate

pyramids: yes

colormaps: no

CRS: EPSG 31370

Edited by: Agency for Geographic Information Flanders

Conformity with INSPIRE data specifications

Specification name: REGULATION (EU) No. COMMISSION 1089/2010 of 23 November 2010b

implementation of Directive 2007/2 / EC of the European Parliament and of the Council on interoperability

spatial data sets and spatial data services

Specification release date: 2010-12-08

Right of use

Constraint

- The data is owned by the AGIV and is protected by copyright law.

  For reuse (Reuse of Government Information Decree) Flemish Open Data license v1.0 of

  application.

  The information is public and everyone has the right to inspect in accordance with the decree on open government.

  The use for tasks of general interest by authorities (public bodies) is regulated by the

  Decree on Geographic Data Infrastructure Flanders.

  For any other use, the user must contact the owner of the data.

Legal Restrictions on Access and Use

(Legal) access restriction

- license

(Legal) usage restriction

- copyright

Distribution

Distribution format

- GeoTIFF (6.0)

4/7   AGIV - 11/17/2014

Page 5

Distributor

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E-mail: contactpunt@agiv.be

URL: http://www.agiv.be

Handover

1. **Delivery unit:** 1/1 NGI map sheet

   Online source:

   Connection point URL: http://www.geopunt.be/download?container=dhm-vlaanderen-ii-dtm-raster-

   1m & title = Digital% 20Height model% 20Vlaanderen% 20II,% 20DTM,% 20raster,% 201m

   Protocol: WWW: DOWNLOAD-1.0-http - download

   Name: Digital Elevation Model Flanders II, DTM, grid, 1 m

   Online source:

   Connection point URL: http://geo.agiv.be/ogc/wms/product/DHMV?

   Protocol: OGC: WMS

   Name: WMS

   Description: WMS Digital Elevation Model Flanders

   Online source:

   Connection point URL:

   http://geo.agiv.be/ogc/wms/product/DHMV?request=getcapabilities&version=1.3.0&service=wms

   Protocol: OGC: WMS-1.3.0-http-get-capabilities

   Name: DHMVII_DTM_1m

   Description: Digital Elevation Model Flanders II, digital terrain model 1m

   Online source:

   Connection point URL:

   http://geo.agiv.be/ogc/wms/product/DHMV?REQUEST=GetMap&SERVICE=WMS&VERSION=1.3.0

   Protocol: OGC: WMS-1.3.0-http-get-folder

   Name: DHMVII_DTM_1m

   Description: Digital Elevation Model Flanders II, digital terrain model 1m

   Online source:

   Connection point URL:

   http://geo.agiv.be/ogc/wms/product/DHMV?request=getcapabilities&version=1.3.0&service=wms

   Protocol: OGC: WMS-1.3.0-http-get-capabilities

   Name: DHMVII_vdc

   Description: Digital Altitude Model Flanders II, flight day contour

   Online source:

   Connection point URL:

   http://geo.agiv.be/ogc/wms/product/DHMV?REQUEST=GetMap&SERVICE=WMS&VERSION=1.3.0

Protocol: OGC: WMS-1.3.0-http-get-folder

Page 6

Name: DHMVII_vdc

Description: Digital Altitude Model Flanders II, flight day contour

Online source:

Connection point URL:

http://geo.agiv.be/ogc/wms/product/DHMV?request=getcapabilities&version=1.3.0&service=wms

Protocol: OGC: WMS-1.3.0-http-get-capabilities

Name: DHMVII_svz

Description: Digital Altitude Model Flanders II, current situation

Online source:

Connection point URL:

http://geo.agiv.be/ogc/wms/product/DHMV?REQUEST=GetMap&SERVICE=WMS&VERSION=1.3.0

Protocol: OGC: WMS-1.3.0-http-get-folder

Name: DHMVII_svz

Description: Digital Altitude Model Flanders II, current situation

Offline medium: onLine

Meta metadata

General

Metadata identifier (file identifier): f52b1a13-86bc-4b64-8256-88cc0d1a8735

Language metadata record: Dutch

Character set metadata record: UTF8

Hierarchical level: dataset

Metadata change date: 03/11/2014

Metadata standard **name:** ISO 19115/2003 / Cor.1: 2006

Version metadata standard: GDI-Flanders Best Practices - version 1.0

Metadata author

Contact point

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Object catalog

General

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Page 7

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Entity (s)

height, grid

Definition: The height value is displayed according to regularly spaced cells.

Geometric Primitive: Other

Attributes:

Attribute name: height value

Definition: Interpolated elevation value derived from a LiDAR point cloud

Type: Number (5.2)