



Data Product Specification of *Terrain* Data Sets **AREAS 2, 4 – Kaunas aerodrome (EYKA)**

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Published	2022-07-14
Language	English
Extent of the data product	Kaunas TMA
Topic category	elevation
Keywords	DEM, Terrain, Elevation

Overview of the data product

Data set contains the digital terrain data of Areas 2, 4 of Kaunas aerodrome.

The digital terrain model defines the bare surface of the earth and does not include any vegetation or manmade objects.

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1. About the data product specification	
Title	Data Product Specification of Terrain Data Sets of Areas 2, 4 of Kaunas aerodrome.
This version	http://www.ans.lt
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Contact	Aeronautical Information Service Balio Karvelio St. 25, LT-02184 Vilnius, Lithuania +370 706 94 613 ais@ans.lt
Web location	http://www.ans.lt
Format	PDF
Maintenance	The data product specification is updated regularly.
Handling restrictions	Unrestricted
Terms and definitions	See ICAO Annex 15 and PANS-AIM (Doc 10066).
Abbreviations	See ICAO Annex 15 and PANS-AIM (Doc 10066).

2. Identification and purpose of the data product	
Official title	Terrain Data Set for Areas 2, 4 of Kaunas aerodrome
ID	eyka_area%area_No%_%date%.tif
Abstract	The digital terrain data sets covers Areas 2, 4. The digital terrain data does not meet the numerical requirements defined in ICAO 15 and ICAO PANS-AIM (Doc 10066), Appendix 1, Table A1-8 for Areas 2, 4.
Purpose	The purpose of the data product is to provide terrain data for air navigation applications. ICAO PANS-AIM, Chapter 5.3.3.2 provides possible uses of the data. It is the responsibility of the users to determine if the data product meets their needs.
Topic category	elevation
Keywords	DEM, Terrain, Elevation
Spatial representation	grid
Spatial resolution	From 1 arc second to 0.3 arc seconds
Supplemental information	NIL
Restrictions	Use limitations: For aviation use only
Extent	Areas 2, 4 of Kaunas aerodrome.

3. Scopes	
General scope	
Scope id	General scope

Level	Series
Level name	General scope
Level description	The general scope level defines the specifications which are applicable to all aeronautical data of Republic of Lithuania.
Extent	Republic of Lithuania
Coverage	Not applicable
Area 2	
Scope id	Area 2
Level	Dataset
Level name	Area 2
Level description	The Area 2 scope defines the specifications which are for obstacles in Area 2 and deviate from the general scope.
Extent	Area 2 of EYKA: Distance of 45 km from the aerodrome reference point, or to an existing terminal control area (TMA) boundary, whichever is nearest.
Area 4	
Scope id	Area 4
Level	Dataset
Level name	Area 4
Level description	The Area 4 scope defines the specifications which are for obstacles in Area 4 and deviate from the general scope.
Extent	Area 4 of EYKA: The area extending 900 m prior to the runway threshold and 60 m each side of the extended runway centre line in the direction of the approach on a precision approach runway, Category II.

4. Data content and structure

General scope	
Narrative description	Digital terrain model of the bare earth surface (does not include vegetation or man-made objects).
Application schema	Raster grid
Feature catalogue	Elevation

5. Reference system

General scope	
Spatial reference system	Horizontal reference system: LKS-94 (local) Vertical reference system: LAS-07 (local)
Temporal reference system	Gregorian Calendar, UTC.

6. Data quality requirements

General scope	
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Requirement 1	Data quality element: Assurance (Integrity) Data quality measure: NIL
Requirement 2	Data quality element: Traceability Data quality measure: NIL
Area 2	
Requirement 1	Data quality element: Horizontal accuracy Data quality measure: NIL
Requirement 2	Data quality element: Vertical accuracy Data quality measure: NIL
Requirement 3	Data quality element: Vertical resolution Data quality measure: NIL
Requirement 4	Data quality element: Post spacing Data quality measure: NIL
Area 4	
Requirement 1	Data quality element: Horizontal accuracy Data quality measure: NIL
Requirement 2	Data quality element: Vertical accuracy Data quality measure: NIL
Requirement 3	Data quality element: Vertical resolution Data quality measure: NIL
Requirement 4	Data quality element: Post spacing Data quality measure: NIL

7. Data capture and production	
General scope	
Description	NIL
Guide	NIL
Inclusion criteria	The data represents the bare earth surface.
Data acquisition and processing	NIL

8. Maintenance of the data	
General scope	
Description	The data set should be updated every 5 years.
Frequency	Continual
User defined	<i>Not applicable</i>

9. Portrayal rules	
General scope	
Portrayal rules	<i>Not applicable</i>

10. Data delivery methods	
GeoTIFF	
Format name	GeoTIFF
Format version	1.1
Format specification	According OGC GeoTIFF
File structure	GeoTIFF georeferenced raster
Language	English
Character set	UTF-8
Units of delivery	Dataset
Transfer size	Various
Medium name	Digital file transfer
Other delivery	<i>Not applicable</i>
Service property	Terrain dataset can be provided via email or other electronic means.

11. Metadata	
General scope	
Specification	Title: ISO 19115, Geographic information – Metadata
Encoding	Title: ISO 19139, Geographic information – Metadata– XML schema implementation
Metadata elements	The metadata is provided in a separate metadata file as described in ICAO PANS-AIM (Doc 10066) Chapter 5.3.2. The following metadata is provided: • Title of data set • Organisation providing the data set • Abstract • Creation date • Effective date • Validity • Constraint of use • Geographic extent

12. Additional information	
General scope	
Additional information	<i>Not applicable</i>