KINGDOM OF SAUDI ARABIA
GENERAL AUTHORITY OF CIVIL AVIATION
SAUDI AIR NAVIGATION SERVICES
AERONAUTICAL INFORMATION MANAGEMENT

Data Product Specification

of KSA Obstacles Dataset for Area1

Version	1.0
This version	https://aimss.sans.com.sa
Latest version	NIL
Published	2025-10-02
Language	English
Extent of the data product	OEJD FIR
Topic category	Transportation
Keywords	AIP

Abstract of the data product
The aeronautical data of the KSA obstacle data set for Area 1 are collected and published according to GACAR Part 175.

Contact Information	
Organization	General Authority of Civil Aviation (GACA) Saudi Air Navigation Services (SANS) Aeronautical Information Management (AIM)
Address	P.O.Box: 929, Jeddah 21421, Saudi Arabia
Phone / Fax	Tel: +966 12 6848046 & +966 12 6848959 Fax: +966 12 6405622
Email	aip@gaca.gov.sa aim@sans.com.sa
Website	http://www.gaca.gov.sa http://www.sans.com.sa

Amendment Record

Version	Date	Reason of change	Changed section
1.0	2025-10-02	Creation of the document	All

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1. About the data product specification	
Title	Data product specification for KSA Obstacles Data Set for Area1
This version	https://aimss.sans.com.sa
Latest version	*NIL*
Published	2025-10-02
Updated	Based on AIRAC cycle as needed
Language	English
Contact	Address: General Authority of Civil Aviation Saudi Air Navigation Services Aeronautical Information Management P.O. Box 929, Jeddah 21421, Saudi Arabia Phone: +966 12 6848046 & +966 12 6848959 Fax: +966 12 6405622 AFS: OEJDYAYX Email: aim@sans.com.sa Web site: http://www.gaca.gov.sa http://www.sans.com.sa
Web location	https://aimss.sans.com.sa
Format	Excel and PDF
Maintenance	The data product specification is reviewed and updated as required.
Handling restrictions	*Not applicable*
Terms and definitions	See GACAR Part 175.
Abbreviations	DS Data Set EPSG European Petroleum Survey Group ISO International Organization for Standardization KSA Kingdom of Saudi Arabia NIL None or I have nothing to send to you Universal UTC Time Coordinated UTF-8 8-bit Unicode Transformation Format For additional abbreviations, see GACAR Part 1 and KSA AIP.
2. Identification and purpose of the data product	
Official title	KSA Obstacles Data Set for Area 1
Alternative title	*Not applicable*
ID	OBST-area1XX.xlsx XX: Version of effective Obstacles Area1
Abstract	The product contains an obstacle data set for OEJD FIR for Area 1, which is compliant with the requirements laid down in GACAR Part 175.

Purpose	The purpose of the data product is to provide OEJD FIR Area1 Obstacle data for air navigation applications. GACAR Part 175 provides possible uses of the data. It is the responsibility of the users to determine if the data product meets their needs.
Topic category	Transportation
Keywords	Obstacle
Spatial representation	Vector
Spatial resolution	*Not applicable*
Supplemental information	*NIL*
Restrictions	For aviation use only.
Extent	OEJD FIR
3. Data content and structure	
Narrative description	The data model for aeronautical data follows the model defined in GACAR Part 175.
Application schema	NIL
Feature catalogue	See point 2 (Abstract)
4. Reference system	
Spatial reference system	Horizontal reference system: WGS-84, EPSG: 4326 Vertical reference system: Mean See Level using EGM-96 datum.
Temporal reference system	Gregorian Calendar, UTC

5. Data quality	
Requirement 1	Data quality element: Accuracy Data quality measure: The accuracy requirements are specified in Appendix 1 to GACAR Part 175 – Aeronautical Data Catalogue and are based on a 95% confidence level.
Requirement 2	Data quality element: Resolution Data quality measure: The resolution requirements are specified in Appendix 1 to GACAR Part 175 – Aeronautical Data Catalogue.
Requirement 3	Data quality element: Assurance (Integrity) Data quality measure: The integrity requirements are specified in Appendix 1 to GACAR Part 175 – Aeronautical Data Catalogue. The procedures for processing aeronautical data have been setup to meet the integrity requirements.
Requirement 4	Data quality element: Traceability Data quality measure: All actions applied to the aeronautical data have been recorded. The traceability records are available on request.
6. Data capture and production	
Description	Obstacle coverage areas have been created according to GACAR part 175.
Guide	*NIL*
Inclusion criteria	Obstacles must have a minimal height of 100 m above ground level to be included in an Area 1 obstacle dataset
Data acquisition and processing	The data was captured and processed with terrestrial survey
7. Maintenance of the data	
Description	Obstacle Data Set for Area 1 - KSA is updated based on AIRAC cycle as needed. New obstacles erection or existing obstacles modification/withdrawal between AIRAC dates will be announced by NOTAM.
Frequency	As needed
User defined	*NIL*
8. Portrayal rules	
Portrayal rules	*Not applicable*
9. Data delivery	
Format name	Excel and PDF (The Excel (xlsx) file format is a spreadsheet format. The Excel format enables digital transfer and analysis of the obstacle data).
Format version	Not applicable
Format specification	Excel and PDF
File structure	Not applicable

Language	English
Transfer size	*Not applicable*
Medium name	*Not applicable*
Other delivery	*Not applicable*
Service property	*Not applicable*
10. Metadata	
Specification	ISO 19115, Geographic information – Metadata
Encoding	ISO 19115, Geographic information – Metadata
Metadata elements	The metadata is included in the data set as described in GACAR Part 175 §175.147 Metadata requirements. The following metadata is provided: • The names of the organization or entities providing the data set; • The date and time when the data set was provided. • Period of validity of the data set; and • Any limitations with regard to the use of the data set.
11. Additional information	
Additional information	Not applicable