ISO Geodetic Registry

Item class VerticalCRS

Name KSA-VRF14 - OHt

Item status VALID
Identifier 780

Alias Kingdom of Saudi Arabia Vertical Reference Frame Jeddah 2014

Information source Title Technical Summary for Saudi Arabia National

Spatial Reference System (SANSRS).

Author General Directorate of Geodesy

Publisher General Directorate of Geodesy, General

Authority for Survey and Geospatial Information,

Kingdom of Saudi Arabia

Publication date 2019-06 Revision date 2021-02

Other citation details https://www.gasgi.gov.sa/En/Products/

Products_v1/Geodesy/Documents/

Technical_Summary_for_SANSRS_v1.1.pdf

(accessed 2021-06-07)

Data sourceISO Geodetic RegistryRemarksOrthometric heightScopeSpatial referencing.

Datum Kingdom of Saudi Arabia Vertical Reference Frame Jeddah 2014

Coordinate System Vertical CS. Axis: height (H). Orientation: up. UoM: ftUS.

Extent

Description	Saudi Arabia - onshore.	
Geographic Bounding Box	West-bound longitude	34.51
	North-bound latitude	32.16
	East-bound longitude	55.67
	South-bound latitude	16.37

ISO Geodetic Registry

Item class VerticalDatum

Name Kingdom of Saudi Arabia Vertical Reference

Frame Jeddah 2014

Item status VALID
Identifier 776

Alias KSA-VRF14

Information source Title Technical Summary for Saudi Arabia National

Spatial Reference System (SANSRS).

Author General Directorate of Geodesy

Publisher General Directorate of Geodesy, General

Authority for Survey and Geospatial Information,

Kingdom of Saudi Arabia

Publication date 2019-06 Revision date 2021-02

Other citation details https://www.gasgi.gov.sa/En/Products/

Products_v1/Geodesy/Documents/

Technical_Summary_for_SANSRS_v1.1.pdf

(accessed 2021-06-07)

Data source ISO Geodetic Registry

Remarks Helmert-orthometric heights realized by the National Vertical Network

(NVN). KSA-VRF14 replaces all previous vertical datums including

KSA-JED69, KSA-SVD71 and KSA-SVD78.

Anchor definition Mean sea level at Jeddah tide gauge represented by an orthometric

height of 1.7446 m at bench mark TGBM-B in a tide free system at

epoch 2014.75.

Release date 2014-10 Coordinate Reference Epoch 2014.75

Scope Spatial referencing

Extent

Description	Saudi Arabia - onshore.	
Geographic Bounding Box	West-bound longitude	34.51
	North-bound latitude	32.16
	East-bound longitude	55.67
	South-bound latitude	16.37

ISO Geodetic Registry

Item class VerticalCS

Vertical CS. Axis: height (H). Orientation: up.

UoM: ftUS.

Item status VALID
Identifier 41

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

Publication date 2007-07-01

Edition Second Edition

Series/Journal name International Standard

Issue identification ISO 19111:2007

Information source Title Refinement of values for the yard and the pound

Author A.V. Astin, H.A. Karo

Publisher US National Bureau of Standards

Publication date 1959-07-01

Edition date

Series/Journal name Federal Register Notice

Issue identification Volume 24, Number 128, Document 59-5442

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Data source ISO Geodetic Registry

Remarks Used in vertical coordinate reference systems.

Axes

Item class CoordinateSystemAxis

Name Gravity-related height

Item statusVALIDIdentifier32

Information source Title Refinement of values for the yard and the pound

Author A.V. Astin, H.A. Karo

Publisher US National Bureau of Standards

Publication date 1959-07-01

Edition date

Series/Journal name Federal Register Notice

Issue identification Volume 24, Number 128, Document 59-5442

Page 5348.0

Data source ISO Geodetic Registry

Remarks Used in a 1D vertical coordinate system.

Abbreviation H
Direction up

Unit US survey foot