

# ISO Geodetic Registry

|                           |  |   |
|---------------------------|--|---|
| <i>Item class</i>         | VerticalCRS  |   |
| <i>Name</i>               | <b>KSA-VRF14 - OHt</b>                                       |   |
| <i>Item status</i>        | VALID  |   |
| <i>Identifier</i>         | 780  |   |
| <i>Alias</i>              | Kingdom of Saudi Arabia Vertical Reference Frame Jeddah 2014 |   |
| <i>Information source</i> | <i>Title</i>   | Technical Summary for Saudi Arabia National Spatial Reference System (SANSRS).  |
|                           | <i>Author</i>  | General Directorate of Geodesy  |
|                           | <i>Publisher</i>   | General Directorate of Geodesy, General Authority for Survey and Geospatial Information, Kingdom of Saudi Arabia  |
|                           | <i>Publication date</i>                                      | 2019-06   |
|                           | <i>Revision date</i>   | 2021-02   |
|                           | <i>Other citation details</i>                                | <a href="https://www.gasgi.gov.sa/En/Products/Products_v1/Geodesy/Documents/Technical_Summary_for_SANSRS_v1.1.pdf">https://www.gasgi.gov.sa/En/Products/Products_v1/Geodesy/Documents/Technical_Summary_for_SANSRS_v1.1.pdf</a> (accessed 2021-06-07) |
| <i>Data source</i>        | ISO Geodetic Registry  |   |
| <i>Remarks</i>            | Orthometric height   |   |
| <i>Scope</i>              | Spatial referencing.   |   |
| <i>Datum</i>              | Kingdom of Saudi Arabia Vertical Reference Frame Jeddah 2014 |   |
| <i>Coordinate System</i>  | Vertical CS. Axis: height (H). Orientation: up. UoM: ftUS.   |   |

## Extent

|                                |                                |       |
|--------------------------------|--------------------------------|-------|
| <i>Description</i>             | <b>Saudi Arabia - onshore.</b> |       |
| <i>Geographic Bounding Box</i> | <i>West-bound longitude</i>    | 34.51 |
|                                | <i>North-bound latitude</i>    | 32.16 |
|                                | <i>East-bound longitude</i>    | 55.67 |
|                                | <i>South-bound latitude</i>    | 16.37 |

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|                                   |  |   |
|-----------------------------------|--|---|
| <i>Item class</i>                 | VerticalDatum  |   |
| <i>Name</i>                       | <b>Kingdom of Saudi Arabia Vertical Reference Frame Jeddah 2014</b>  |   |
| <i>Item status</i>                | VALID  |   |
| <i>Identifier</i>                 | 776  |   |
| <i>Alias</i>                      | KSA-VRF14  |   |
| <i>Information source</i>         | <i>Title</i>   | Technical Summary for Saudi Arabia National Spatial Reference System (SANSRS).  |
|                                   | <i>Author</i>  | General Directorate of Geodesy  |
|                                   | <i>Publisher</i>   | General Directorate of Geodesy, General Authority for Survey and Geospatial Information, Kingdom of Saudi Arabia  |
|                                   | <i>Publication date</i>  | 2019-06   |
|                                   | <i>Revision date</i>   | 2021-02   |
|                                   | <i>Other citation details</i>  | <a href="https://www.gasgi.gov.sa/En/Products/Products_v1/Geodesy/Documents/Technical_Summary_for_SANSRS_v1.1.pdf">https://www.gasgi.gov.sa/En/Products/Products_v1/Geodesy/Documents/Technical_Summary_for_SANSRS_v1.1.pdf</a> (accessed 2021-06-07) |
| <i>Data source</i>                | ISO Geodetic Registry  |   |
| <i>Remarks</i>                    | 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. |   |
| <i>Anchor definition</i>          | 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.                          |   |
| <i>Release date</i>               | 2014-10  |   |
| <i>Coordinate Reference Epoch</i> | 2014.75  |   |
| <i>Scope</i>                      | Spatial referencing  |   |

## Extent

|                                |                                |       |
|--------------------------------|--------------------------------|-------|
| <i>Description</i>             | <b>Saudi Arabia - onshore.</b> |       |
| <i>Geographic Bounding Box</i> | <i>West-bound longitude</i>    | 34.51 |
|                                | <i>North-bound latitude</i>    | 32.16 |
|                                | <i>East-bound longitude</i>    | 55.67 |
|                                | <i>South-bound latitude</i>    | 16.37 |

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|                           |   |   |
|---------------------------|---|---|
| <i>Item class</i>         | VerticalCS  |   |
| <i>Name</i>               | <b>Vertical CS. Axis: height (H). Orientation: up. UoM: ftUS.</b> |   |
| <i>Item status</i>        | VALID   |   |
| <i>Identifier</i>         | 41  |   |
| <i>Information source</i> | <i>Title</i>  | ISO 19111 Geographical information - Spatial referencing by coordinates |
|                           | <i>Author</i>   | International Organization for Standardization (ISO)                    |
|                           | <i>Publisher</i>  | International Organization for Standardization (ISO)                    |
|                           | <i>Publication date</i>   | 2007-07-01  |
|                           | <i>Edition</i>  | Second Edition  |
|                           | <i>Series/Journal name</i>  | International Standard  |
|                           | <i>Issue identification</i>                                       | ISO 19111:2007  |
|                           | <i>Title</i>  | Refinement of values for the yard and the pound                         |
|                           | <i>Author</i>   | A.V. Astin, H.A. Karo   |
|                           | <i>Publisher</i>  | US National Bureau of Standards   |
| <i>Information source</i> | <i>Publication date</i>   | 1959-07-01  |
|                           | <i>Edition date</i>   |   |
|                           | <i>Series/Journal name</i>  | Federal Register Notice   |
|                           | <i>Issue identification</i>                                       | Volume 24, Number 128, Document 59-5442                                 |
|                           | <i>Page</i>   | 5348.0  |
|                           | <i>Data source</i>  | ISO Geodetic Registry   |
| <i>Remarks</i>            | Used in vertical coordinate reference systems.                    |   |

## Axes

|                           |                               |   |
|---------------------------|-------------------------------|---|
| <i>Item class</i>         | CoordinateSystemAxis          |   |
| <i>Name</i>               | <b>Gravity-related height</b> |   |
| <i>Item status</i>        | VALID                         |   |
| <i>Identifier</i>         | 32                            |   |
| <i>Information source</i> | <i>Title</i>                  | Refinement of values for the yard and the pound |
|                           | <i>Author</i>                 | A.V. Astin, H.A. Karo                           |
|                           | <i>Publisher</i>              | US National Bureau of Standards                 |
|                           | <i>Publication date</i>       | 1959-07-01                                      |
|                           | <i>Edition date</i>           |   |
|                           | <i>Series/Journal name</i>    | Federal Register Notice                         |
|                           | <i>Issue identification</i>   | Volume 24, Number 128, Document 59-5442         |
|                           | <i>Page</i>                   | 5348.0  |
|                           | <i>Data source</i>            | ISO Geodetic Registry                           |
|                           | <i>Remarks</i>                | Used in a 1D vertical coordinate system.        |
| <i>Abbreviation</i>       | H                             |   |
| <i>Direction</i>          | up                            |   |
| <i>Unit</i>               | US survey foot                |   |