Item class GeodeticCRS
Name IGb00 - XYZ

Item statusVALIDIdentifier309

Alias IGS 2000 (v2)

Alias International GPS Service 2000 (v2)
Information source Title IGS00 (v2)

Author R. Ferland

Publisher International GNSS Service (IGS)

Publication date 2003-10-09

Edition date

Series/Journal name IGSMAIL Issue identification 4642.0

Data source ISO Geodetic Registry

Remarks Replaces IGS00 - XYZ. Replaced by IGS05 -XYZ. Used by IGS

products within the period 2004-01-11 thru 2006-11-04.

Scope Spatial referencing

Datum IGb00

Coordinate System Geocentric 3D right-handed Cartesian CS. Axes: Geocentric X,Y,Z.

Orientation: Z to North Pole, [X and Y in the equatorial plane, X at Prime Meridian \mid X in the equatorial plane at the Prime Meridian]. UoM:

m.

Extent

Description	World.	
Geographic Bounding Box	West-bound longitude	-180.0
	North-bound latitude	90.0
	East-bound longitude	180.0
	South-bound latitude	-90.0

Item class GeodeticDatum

Name IGb00
Item status VALID
Identifier 115

Alias IGS 2000 (v2)

Alias International GPS Service 2000 (v2)

Information source Title IGS00 (v2)
Author R. Ferland

Author R. Ferland
Publisher International GNSS Ser

Publisher International GNSS Service (IGS)

Publication date 2003-10-09

Edition date

Series/Journal name IGSMAIL Issue identification 4642.0

Data source ISO Geodetic Registry

Remarks Replaces IGS00. Replaced by IGS05. Used by IGS products within the

period 2004-01-11 thru 2006-11-04.

Anchor definition Derived from and aligned to a subset of 99 stable IGS station

coordinates and velocities in ITRF2000 at epoch 1998.0. This was the last IGS reference frame to use relative antenna phase calibrations for

ground stations and no calibrations for satellite antennas.

Release date 2004-01-11 Coordinate Reference Epoch 1998.0

Scope Spatial Referencing

Ellipsoid GRS 1980
Prime Meridian Greenwich

Extent

Description	World.	
Geographic Bounding Box	West-bound longitude	-180.0
	North-bound latitude	90.0
	East-bound longitude	180.0
	South-bound latitude	-90.0

Item class Ellipsoid

Name GRS 1980

Item statusVALIDIdentifier27

Alias Geodetic Reference System 1980

Alias GRS1980
Alias IAG GRS80

Alias International 1979

Alias GRS80

Information source Title Geodetic Reference System 1980

Author H. Moritz

Publisher Springer International Publishing

Publication date 2003-03

Series/Journal name Journal of Geodesy Issue identification Volume 74, No. 1

Page 128–162

Information source Title Geodetic Reference System 1980

Author H. Moritz

Publisher International Association of Geodesy

Publication date 1984

Series/Journal name Bulletin Geodesique Issue identification Volume 58, No. 3

Page 395-405

Data source ISO Geodetic Registry

Remarks Adopted by IUGG 1979 Canberra. Inverse flattening is derived from

geocentric gravitational constant GM = 3986005e8 m*m*m/s/s, dynamic form factor J2 = 108263e-8 and Earth's angular velocity =

7292115e-11 rad/s.

 Semi-major axis
 6378137.0 m

 Inverse flattening
 298.257222101 m

Item class PrimeMeridian

Name Greenwich

Item statusVALIDIdentifier25

Alias Zero meridian

Information source Title Why the Greenwich meridian moved

Author S. Malys, J.H. Seago, N.K. Pavlis, P.K.

Seidelmann, G.H. Kaplan

Publisher Springer International Publishing

Publication date 2015-12

Series/Journal name Journal of Geodesy Issue identification Volume 89, No. 12

Page 1263–1272

Information source Title IERS Conventions (2010)

Author G. Petit, B.J. Luzum (eds)

Publisher Verlag des Bundesamts fur Kartographie und

Geodasie

Publication date 2010

Edition date

Series/Journal name IERS Technical Notes

Issue identification 36.0

Other citation details ISSN: 1019-4568

Data source ISO Geodetic Registry

Greenwich longitude 0.0 °

Item class CartesianCS

Name Geocentric 3D right-handed Cartesian CS.

Axes: Geocentric X,Y,Z. Orientation: Z to North

Pole, [X and Y in the equatorial plane, X at

Prime Meridian | X in the equatorial plane at the

Prime Meridian]. UoM: m.

Item status VALID
Identifier 45

Alias Earth centred, earth fixed, right-handed 3D coordinate system,

consisting of 3 orthogonal axes with X and Y axes in the equatorial plane, positive Z-axis parallel to mean earth rotation axis and pointing

towards North Pole. UoM: m.

Alias ECEF

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

133de identification 130 1911 i

Data source ISO Geodetic Registry

Remarks Used in geocentric coordinate reference systems.

Axes

Item class CoordinateSystemAxis Name **Geocentric X** Item status **VALID** Identifier 33 Information source Title ISO 19111 Geographical information - Spatial referencing by coordinates Author International Organization for Standardization Publisher International Organization for Standardization (ISO) Publication date 2007-07-01 Edition Second Edition Series/Journal name International Standard Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Abbreviation X

Direction Geocentre > equator/0°E

Unit metre

Item class CoordinateSystemAxis

Name Geocentric Y
Item status VALID

Identifier 37

Title ISO 19111 Geographical information - Spatial Information source

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

2007-07-01 Publication date Edition Second Edition Series/Journal name International Standard

Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Abbreviation

Direction Geocentre > equator/90°E

Unit metre

CoordinateSystemAxis Item class

Name **Geocentric Z**

VALID Item status Identifier 39

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

2007-07-01 Publication date Edition Second Edition Series/Journal name International Standard Issue identification ISO 19111:2007

ISO Geodetic Registry

Abbreviation Ζ

Data source

Direction Geocentre > north pole

Unit metre