Item class	GeodeticCRS	
Name	WGS 84 (G1762) - LatLonEHt	
Item status	VALID	
Identifier	405	
Information source  Data source		Department of Defense World Geodetic System 1984: Its Definition and Relationships with Local Geodetic Systems, Version 1.0.0 National Geospatial-Intelligence Agency National Geospatial-Intelligence Agency 2014-07-08 Standardization Document NGA.STND.0036_1.0.0_WGS84
Remarks	Replaces WGS 84 (G1674) - LatLonEHt.	
Scope	Spatial Referencing and GPS satellite navigation.	
Datum	World Geodetic System 1984 (G1762)	
Coordinate System	Ellipsoidal 3D CS. Axes: latitude, longitude, ellipsoidal height. Orientations: north, east, up. UoM: degree, degree, metre.	

#### 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 World Geodetic System 1984 (G1762)

Item status VALID
Identifier 131

Alias WGS 84 (G1762')
Alias WGS 84 (G1762)

Information source Title Affirmation of Vertical Datum for Surveying and

Mapping Activities for the Islands of Rota, Saipan and Tinian of the Commonwealth of the Northern

Mariana Islands (CNMI)

Author US Government

Publisher Office of Federal Register, NARA

Publication date 2009-01-22 Edition date 2009-01-22

Series/Journal name Federal Register Notice

Issue identification Volume 74, No. 13, Document: E9-1180, Citation:

74 FR 3990

Page 3990-3991

Other citation details Mandates use of NMVD03

Information source Title Department of Defense World Geodetic System

1984: Its Definition and Relationships with Local

Geodetic Systems, Version 1.0.0

Author National Geospatial-Intelligence Agency
Publisher National Geospatial-Intelligence Agency

Publication date 2014-07-08

Series/Journal name Standardization Document Issue identification NGA.STND.0036\_1.0.0\_WGS84

Data source ISO Geodetic Registry

Remarks Replaces World Geodetic System 1984 (G1674) and used in broadcast

and precise ephemerides from 2013-10-16. The reference frame was redesignated WGS 84 (G1762') after coordinates of 7 NGA tracking stations were changed following station moves and antenna updates between 2014-08 and 2015-06. Replaced by WGS 84 (G2139) from

2021-01-03.

Anchor definition Defined through coordinates of 19 GPS tracking stations adjusted to

a subset of IGb08 stations at epoch 2005.0 using observations made in May 2013. The IGb08 station coordinates are considered to be

equivalent to ITRF2008.

Release date 2013-10-16
Coordinate Reference Epoch 2005.0

Scope Spatial Referencing and GPS satellite navigation

Ellipsoid WGS 84
Prime Meridian Greenwich

#### Extent

Description

World.

Geographic Bounding Box

West-bound longitude
North-bound latitude
East-bound longitude
South-bound latitude
-90.0

Item class Ellipsoid

Name WGS 84

Item statusVALIDIdentifier30

Alias WGS84

Information source Title Department of Defense World Geodetic System

1984: Its Definition and Relationships with Local

Geodetic Systems, Version 1.0.0

Author National Geospatial-Intelligence Agency Publisher National Geospatial-Intelligence Agency

Publication date 2014-07-08

Series/Journal name Standardization Document
Issue identification NGA.STND.0036\_1.0.0\_WGS84

Information source Title World Geodetic System 1984

Author L.B. Decker, Defense Mapping Agency

Aerospace Center

Publisher Defense Mapping Agency Aerospace Center

Publication date 1986-04

Edition date

Information source Title Refinements to The World Geodetic System 1984

Author S. Malys, J.A. Slater, R.W. Smith, L.E. Kunz, S.C.

Kenyor

Publisher Institute of Navigation

Publication date 1997-09

Edition date

Series/Journal name Proceedings of the 10th International Technical

Meeting of the Satellite Division of The Institue of Navigation (ION-GPS-1997), Kansas City, MO,

September 1997

Page 841-850

Data source ISO Geodetic Registry

Remarks The World Geodetic System 1984 (WGS 84) contains four defining

physical parameters for the Earth: the semi-major axis (a), the reciprocal of flattening (1/f) of an oblate spheroid of revolution, the geocentric gravitational constant (GM = 3.986004418e14 m^3/s^2) includes the mass of the atmosphere, and the Earth's angular rotational

velocity about its spin axis (omega = 7.2921150e-5 rad/s).

6378137.0 m

Inverse flattening 298.2572236 m

Semi-major axis

Item class PrimeMeridian

Name Greenwich

Item status VALID
Identifier 25

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 EllipsoidalCS

Name Ellipsoidal 3D CS. Axes: latitude, longitude,

ellipsoidal height. Orientations: north, east, up.

UoM: degree, degree, metre.

Item status VALID
Identifier 46

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

Data source ISO Geodetic Registry

Remarks Used in geographic 3D coordinate reference systems. Horizontal

coordinates referenced to this CS are in degrees. Any degree

representation (e.g. DMSH, decimal, etc.) may be used but that used

must be declared for the user.

#### Axes

Item class CoordinateSystemAxis

Name Geodetic latitude

Item statusVALIDIdentifier38

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

Data source ISO Geodetic Registry

Remarks Used in geographic 2D and geographic 3D coordinate reference

systems.

Abbreviation Lat
Direction north

Unit degree (supplier to define representation)

Item class CoordinateSystemAxis

Name Geodetic longitude

Item status VALID
Identifier 34

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

Data source ISO Geodetic Registry

Remarks Used in geographic 2D and geographic 3D coordinate reference

systems.

Abbreviation Lon
Direction east

Unit degree (supplier to define representation)

Item class CoordinateSystemAxis

Name Ellipsoidal height

Item statusVALIDIdentifier36

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

Data source ISO Geodetic Registry

Remarks Used only as part of an ellipsoidal 3D coordinate system in a

geographic 3D coordinate reference system, never on its own.

*Abbreviation* h

Direction up
Unit metre