ISO Geodetic Registry

Item class GeodeticDatum

Name Geocentric Datum of Australia 2020

Item status VALID
Identifier 186

Alias GDA2020

Information source Title Geocentric Datum of Australia 2020 Technical

Manual Version 1.2

Author Permanent Committee on Geodesy of the

Intergovernmental Committee on Surveying and

Mapping

Publisher Intergovernmental Committee on Surveying and

Mapping

Publication date 2018-08-24

Edition date

Data source ISO Geodetic Registry

Remarks Replaces GDA94. The reference frame is kept fixed or aligned to the

Australian tectonic plate by the Australian Plate Motion Model (PMM)

using 3 rates of change of geocentric Cartesian rotations.

Anchor definition ITRF2014 at epoch 2020.0.

Release date 2017-05 Coordinate Reference Epoch 2020.0

Scope Spatial referencing

Ellipsoid GRS 1980
Prime Meridian Greenwich

Extent

Description	Tasmania, Lord Howe Is	`	
Geographic Bounding Box	West-bound longitude	93.41	
	North-bound latitude	-8.47	
	East-bound longitude	173.4	
	South-bound latitude	-60.56	

ISO Geodetic Registry

Item class Ellipsoid

Name GRS 1980

Item status VALID
Identifier 27

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

ISO Geodetic Registry

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 °