

ISO Geodetic Registry

<i>Item class</i>	GeodeticDatum	
<i>Name</i>	Australian Terrestrial Reference Frame 2014	
<i>Item status</i>	VALID	
<i>Identifier</i>	783	
<i>Alias</i>	ATRF2014	
<i>Information source</i>	<i>Title</i>	Australian Terrestrial Reference Frame
	<i>Author</i>	Geoscience Australia
	<i>Publisher</i>	Geoscience Australia
	<i>Revision date</i>	2020
	<i>Other citation details</i>	Website. https://www.icsm.gov.au/australian-terrestrial-reference-frame (accessed 2021-09-27)
<i>Information source</i>	<i>Title</i>	Australian Terrestrial Reference Frame (ATRF): Technical Implementation Plan
	<i>Author</i>	Intergovernmental Committee on Surveying and Mapping (ICSM)
	<i>Publisher</i>	Geoscience Australia
	<i>Revision date</i>	2020-02-12
	<i>Edition</i>	Version 2.3
	<i>Edition date</i>	2020-02-12
	<i>Other citation details</i>	https://www.icsm.gov.au/sites/default/files/2020-02/ATRF%20Technical%20Implementation%20Plan%20v2.3_1.pdf (accessed 2021-09-27)
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Densification of ITRF2014 in the Australian region.	
<i>Anchor definition</i>	ATRF2014 is aligned to ITRF2014 at epoch 2020.0. Horizontal velocities from the Australian Plate Motion Model are used to propagate the horizontal coordinates to any other desired epoch.	
<i>Release date</i>	2020-01-01	
<i>Coordinate Reference Epoch</i>	2020.0	
<i>Scope</i>	Spatial referencing	
<i>Ellipsoid</i>	GRS 1980	
<i>Prime Meridian</i>	Greenwich	

Extent

<i>Description</i>	Australia including Lord Howe Island, Macquarie Island, Ashmore and Cartier Islands, Christmas Island, Cocos (Keeling) Islands, Norfolk Island. All onshore and offshore.	
<i>Geographic Bounding Box</i>	<i>West-bound longitude</i>	93.41
	<i>North-bound latitude</i>	-8.47
	<i>East-bound longitude</i>	173.34
	<i>South-bound latitude</i>	-60.56

ISO Geodetic Registry

<i>Item class</i>	Ellipsoid														
<i>Name</i>	GRS 1980														
<i>Item status</i>	VALID														
<i>Identifier</i>	27														
<i>Alias</i>	Geodetic Reference System 1980														
<i>Alias</i>	GRS1980														
<i>Alias</i>	IAG GRS80														
<i>Alias</i>	International 1979														
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<i>Author</i>	H. Moritz														
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<i>Publication date</i>	1984														
<i>Series/Journal name</i>	Bulletin Geodesique														
<i>Issue identification</i>	Volume 58, No. 3														
<i>Page</i>	395-405														
<i>Data source</i>	ISO Geodetic Registry														
<i>Remarks</i>	Adopted by IUGG 1979 Canberra. Inverse flattening is derived from geocentric gravitational constant $GM = 3986005e8 \text{ m}^3/\text{s}^2$, dynamic form factor $J_2 = 108263e-8$ and Earth's angular velocity = $7292115e-11 \text{ rad/s}$.														
<i>Semi-major axis</i>	6378137.0 m														
<i>Inverse flattening</i>	298.257222101 m														

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<i>Item class</i>	PrimeMeridian	
<i>Name</i>	Greenwich	
<i>Item status</i>	VALID	
<i>Identifier</i>	25	
<i>Alias</i>	Zero meridian	
<i>Information source</i>	<i>Title</i>	Why the Greenwich meridian moved
	<i>Author</i>	S. Malys, J.H. Seago, N.K. Pavlis, P.K. Seidelmann, G.H. Kaplan
	<i>Publisher</i>	Springer International Publishing
	<i>Publication date</i>	2015-12
	<i>Series/Journal name</i>	Journal of Geodesy
	<i>Issue identification</i>	Volume 89, No. 12
	<i>Page</i>	1263–1272
<i>Information source</i>	<i>Title</i>	IERS Conventions (2010)
	<i>Author</i>	G. Petit, B.J. Luzum (eds)
	<i>Publisher</i>	Verlag des Bundesamts für Kartographie und Geodäsie
	<i>Publication date</i>	2010
	<i>Edition date</i>	
	<i>Series/Journal name</i>	IERS Technical Notes
	<i>Issue identification</i>	36.0
<i>Data source</i>	<i>Other citation details</i>	ISSN: 1019-4568
	ISO Geodetic Registry	
<i>Greenwich longitude</i>	0.0 °	