

# ISO Geodetic Registry

Item class	GeodeticDatum	
Name	Sistema de Referencia Geocentrico para America del Sur 1995	
Item status	VALID	
Identifier	150	
Alias	South American Geocentric Reference System 1995	
Alias	SIRGAS	
Alias	SIRGAS 1995	
Alias	SIRGAS1995	
Alias	SIRGAS95	
Alias	Geocentric Reference System for South America	
Information source	Title	South American Geocentric Reference System: Final Report, Working Groups I and II
	Author	SIRGAS Working Groups I and II
	Publisher	Instituto Brasileiro de Geografia e Estatistica (IBGE), Rio de Janeiro, Brasil
	Publication date	1997
	Other citation details	Report in both English and Spanish.
Information source	Title	Sistema de Referencia Geocentrico para las Americas (SIRGAS)
	Author	Sistema de Referencia Geocéntrico para las Américas (SIRGAS)
	Publisher	Sistema de Referencia Geocéntrico para las Américas (SIRGAS)
	Publication date	2018
	Other citation details	Website
Information source	Title	Deformation of the South American crust estimated from finite element and collocation methods
	Author	H. Drewes, O. Heidbach
	Publisher	Springer Berlin Heidelberg
	Publication date	2005
	Series/Journal name	International Association of Geodesy Symposia
	Issue identification	128.0
	Page	544-549
	Other citation details	In Sanso F. (eds) A Window on the Future of Geodesy. International Association of Geodesy Symposia, Vol 128. Springer, Berlin, Heidelberg
Data source	ISO Geodetic Registry	
Remarks	Replaced by SIRGAS2000.	
Anchor definition	Realized by a frame of 58 stations observed in 1995 and aligned to ITRF94 at epoch 1995.4. Velocity model VEMOS2003 used to propagate coordinates from an arbitrary epoch to the 1995.4 reference epoch.	
Release date	1997	
Coordinate Reference Epoch	1995.4	
Scope	Spatial referencing	
Ellipsoid	GRS 1980	
Prime Meridian	Greenwich	

Extent

<i>Description</i>	<b>South America - onshore and offshore</b>	
<i>Geographic Bounding Box</i>	<i>West-bound longitude</i>	-113.21
	<i>North-bound latitude</i>	16.75
	<i>East-bound longitude</i>	-26.0
	<i>South-bound latitude</i>	-59.87

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<i>Item class</i>	Ellipsoid														
<i>Name</i>	<b>GRS 1980</b>														
<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>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>	<b>Greenwich</b>	
<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 °	