ISO Geodetic Registry

Item class	GeodeticCRS
Name	**SIRGAS-CON DGF08P01 - LatLon**
Item status	VALID
Identifier	276
Alias	SIRGAS
Alias	SIRGAS-CON
Alias	DGFI08P01
Alias	Geocentric Reference System for the Americas
Alias	Sistema de Referencia Geocentrico para las Americas
Alias	DGF08P01
Alias	SIRGAS Multi-Year Solution 2008
Information source	*Title* The position and velocity solution DGF08P01 of the IGS Regional Network Associate Analysis Centre for SIRGAS (IGS RNAAC SIR)
	Author W. Seemueller, M. Kruegel, L. Sanchez, H. Drewes
	Publisher Deutsches Geodaetisches Forschungsinstitut, Munich, Germany
	Publication date 2008
	Series/Journal name DGFI Report
	Issue identification No. 79
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
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
Data source	ISO Geodetic Registry
Scope	Spatial referencing
Datum	SIRGAS Continuously Operating Network DGF08P01
Coordinate System	Ellipsoidal 2D CS. Axes: latitude, longitude. Orientations: north, east. UoM: degree

Extent

Description	**South America - onshore and offshore. Central America - onshore and offshore. Mexico - onshore and offshore.**

Geographic Bounding Box	West-bound longitude	-122.19
	North-bound latitude	32.72
	East-bound longitude	-25.28
	South-bound latitude	-59.87

ISO Geodetic Registry

Item class	GeodeticDatum
Name	**SIRGAS Continuously Operating Network DGF08P01**
Item status	VALID
Identifier	184
Alias	SIRGAS
Alias	SIRGAS-CON
Alias	DGFI08P01
Alias	Geocentric Reference System for the Americas
Alias	Sistema de Referencia Geocentrico para las Americas
Alias	DGF08P01
Alias	SIRGAS Multi-Year Solution 2008
Information source	*Title* The position and velocity solution DGF08P01 of the IGS Regional Network Associate Analysis Centre for SIRGAS (IGS RNAAC SIR)
	Author W. Seemueller, M. Kruegel, L. Sanchez, H. Drewes
	Publisher Deutsches Geodaetisches Forschungsinstitut, Munich, Germany
	Publication date 2008
	Series/Journal name DGFI Report
	Issue identification No. 79
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
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	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	Replaces DGF07P01. Replaced by SIR09P01.
Anchor definition	Realized by a frame of 126 continuously operating stations using GPS observations from December 2002 to March 2008 and aligned to IGS05 at epoch 2004.5. GPS data from December 2002 to November 2006 reprocessed using the first reprocessing campaign products (IG1) of the International GNSS Service and absolute phase centre calibrations referring to the IGS05/IGb05 reference frame. Velocity model VEMOS2003 used to propagate coordinates from an arbitrary epoch to the 2004.5 reference epoch.
Release date	2008
Coordinate Reference Epoch	2004.5

Scope	Spatial referencing
Ellipsoid	GRS 1980
Prime Meridian	Greenwich

Extent

Description	**South America - onshore and offshore. Central America - onshore and offshore. Mexico - onshore and offshore.**	
Geographic Bounding Box	*West-bound longitude*	-122.19
	North-bound latitude	32.72
	East-bound longitude	-25.28
	South-bound latitude	-59.87

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 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 2D CS. Axes: latitude, longitude. Orientations: north, east. UoM: degree**
Item status	VALID
Identifier	43
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 coordinate reference systems. 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 by the supplier of data.

Axes

Item class	CoordinateSystemAxis
Name	**Geodetic latitude**
Item status	VALID
Identifier	38
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)	