

Address—geocode latitude, decimal degrees XN[N] [.N(9)]

Identifying and definitional attributes

Metadata item type:	Data Element
Short name:	Geocode latitude decimal degrees
Synonymous names:	Latitude
METEOR identifier:	430445
Registration status:	<ul style="list-style-type: none">• Community Services (retired), Standard 06/02/2012• Disability, Standard 13/08/2015• Health, Standard 05/10/2016• Housing assistance, Standard 01/05/2013
Definition:	The geographic latitude of an address point on the earth, measured in decimal degrees north or south of the equator.
Data Element Concept:	Address—geocode latitude

Value domain attributes

Representational attributes

Representation class:	Identifier
Data type:	Geospatial
Format:	XN[N][.N(9)]
Maximum character length:	12
Unit of measure:	Decimal degree

Collection and usage attributes

Guide for use:	<p>The 'X' in the latitude format symbolises the designator symbol "+" or "-" and should be placed prior to the first number. Latitudes north of the equator are positive and shall be designated by use of the plus sign (+), latitudes south of the equator are negative and shall be designated by use of the minus sign (-). The equator shall be designated by use of the plus sign (+).</p> <p>The format XN[N][.N(9)] allows for 1 or 2 digit latitudes (i.e. degree values) with the option of 0 to 9 decimal places (i.e. decimal degree values).</p> <p>Usage examples:</p> <ul style="list-style-type: none">• +14.091360569• +2• -50.321
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Source and reference attributes

Origin:	Standards Australia/Standards New Zealand 2008. AS/NZS ISO6709:2008—Standard representation of latitude, longitude and altitude for geographic point locations. Sydney/Wellington: Standards Australia/Standards NZ.
	Standards Australia 2006. AS 4590—2006 Interchange of client information. Sydney: Standards Australia.

Data element attributes

Collection and usage attributes

Comments:

Geographical coordinates (latitudes and longitudes) are the universal system for defining spatial position. A set of geographic coordinates on a datum is complete and unique, worldwide.

Positions of geographic features can be defined in space by a set of coordinates. In order for coordinates to be unique, the coordinate reference system needs to be fully defined.

A coordinate reference system is realised by a reference frame, which comprises a datum and a coordinate system.

Latitudes can also be expressed in degrees, minutes and seconds (e.g. + 66° 33' 39"), see METeOR for this related item. A conversion to decimal degrees from the degrees, minutes and seconds format can be calculated with the following formula: Decimal Degrees = Degrees + ((Minutes / 60) + (Seconds / 3600)). (REF: <https://www2.landgate.wa.gov.au/slip/portal/home/Graticule.html>)

Usage example: -75° 59' 32.483" converts to -75.992356389 in decimal degrees (rounded up to 9 decimal places).

Source and reference attributes

Submitting organisation:

Australian Institute of Health and Welfare

Origin:

Standards Australia 2006. AS 4590—2006 Interchange of client information. Sydney: Standards Australia.

Relational attributes

Related metadata references:

See also [Address—geocode latitude, degrees minutes seconds Xd{d}{mm}{ss}{.ss}](#)

- [Community Services \(retired\)](#), Standard 10/04/2013
- [Disability](#), Standard 13/08/2015

See also [Address—geocode longitude, decimal degrees XN\[NN\]\[.N\(9\)\]](#)

- [Community Services \(retired\)](#), Standard 06/02/2012
- [Disability](#), Standard 13/08/2015
- [Health](#), Standard 05/10/2016
- [Housing assistance](#), Standard 01/05/2013

See also [Address—geocode longitude, degrees minutes seconds Xd{dd}{mm}{ss}{.ss}](#)

- [Community Services \(retired\)](#), Standard 10/04/2013
- [Disability](#), Standard 13/08/2015

Implementation in Data Set Specifications:

[Address details data dictionaryCommunity Services \(retired\)](#), Standard 06/02/2012

[Disability](#), Standard 13/08/2015

[Address geocode clusterHealth](#), Standard 05/10/2016

[Dwelling address details clusterHousing assistance](#), Superseded 01/05/2013

DSS specific information:

Unknown values are recorded as "U".

[Dwelling address details clusterHousing assistance](#), Superseded 01/05/2013

Implementation start date: 28/09/2011

[Indigenous Community Housing DSS 2018-Housing assistance](#), Standard 10/05/2019

Implementation start date: 01/07/2018

DSS specific information:

Record unknown values as 'U'.

[Indigenous community housing dwelling address details clusterHousing assistance](#), Superseded 30/08/2017

[Indigenous](#), Standard 01/05/2013

DSS specific information:

Unknown values should be recorded as "U".

[Indigenous community housing dwelling address details clusterHousing assistance](#), Standard 30/08/2017

DSS specific information:

Unknown values should be recorded as "U".