

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

## Identifying and definitional attributes

<b>Metadata item type:</b>	Data Element
<b>Short name:</b>	Geocode longitude decimal degrees
<b>Synonymous names:</b>	Longitude
<b>METEOR identifier:</b>	430469
<b>Registration status:</b>	<ul style="list-style-type: none"><li>• <a href="#">Community Services (retired)</a>, Standard 06/02/2012</li><li>• <a href="#">Disability</a>, Standard 13/08/2015</li><li>• <a href="#">Health</a>, Standard 05/10/2016</li><li>• <a href="#">Housing assistance</a>, Standard 01/05/2013</li></ul>
<b>Definition:</b>	The geographic longitude of an address point on the earth, measured in decimal degrees east or west of the Greenwich Meridian.
<b>Data Element Concept:</b>	<a href="#">Address—geocode longitude</a>

## Value domain attributes

## Representational attributes

<b>Representation class:</b>	Identifier
<b>Data type:</b>	Geospatial
<b>Format:</b>	XN[NN][.N(9)]
<b>Maximum character length:</b>	13
<b>Unit of measure:</b>	Decimal degree

## Collection and usage attributes

<b>Guide for use:</b>	<p>The 'X' in the longitude format symbolises the designator symbol "+" or "-" and should be placed prior to the first number.</p> <p>The designator symbol for longitudes east of Greenwich are positive and shall be designated by use of the plus sign (+), while longitudes west of Greenwich are negative and shall be designated by use of the minus sign (-). The Prime Meridian shall be designated by use of the plus sign (+). The 180th meridian shall be designated by use of the minus sign (-).</p> <p>The format XN[NN][.N(9)] allows for 1, 2 and 3 digit longitudes (ie. degrees) with the option of 0 to 9 decimal places (i.e. decimal degrees).</p> <p>Usage examples:</p> <ul style="list-style-type: none"><li>• +149.091360569</li><li>• +2</li><li>• -50.321-</li></ul>
-----------------------	---

## 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.

Longitudes can also be expressed in degrees, minutes and seconds (e.g. 150° 54' 45".98), 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, decimal degrees XN\[N\].\[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 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, 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".