

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

Exported from METEOR (AIHW's Metadata Online Registry)

© Australian Institute of Health and Welfare 2024

This product, excluding the AIHW logo, Commonwealth Coat of Arms and any material owned by a third party or protected by a trademark, has been released under a Creative Commons BY 4.0 (CC BY 4.0) licence. Excluded material owned by third parties may include, for example, design and layout, images obtained under licence from third parties and signatures. We have made all reasonable efforts to identify and label material owned by third parties.

You may distribute, remix and build on this website's material but must attribute the AIHW as the copyright holder, in line with our attribution policy. The full terms and conditions of this licence are available at <https://creativecommons.org/licenses/by/4.0/>.

Enquiries relating to copyright should be addressed to [info@aihw.gov.au](mailto:info@aihw.gov.au).

Enquiries or comments on the METEOR metadata or download should be directed to the METEOR team at [meteor@aihw.gov.au](mailto:meteor@aihw.gov.au).

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

## Identifying and definitional attributes

|                              |   |
|------------------------------|---|
| <b>Metadata item type:</b>   | Data Element  |
| <b>Short name:</b>           | Geocode latitude decimal degrees  |
| <b>Synonymous names:</b>     | Latitude  |
| <b>METEOR identifier:</b>    | 430445  |
| <b>Registration status:</b>  | <a href="#">Aged Care</a> , Standard 30/06/2023<br><a href="#">Community Services (retired)</a> , Standard 06/02/2012<br><a href="#">Disability</a> , Standard 13/08/2015<br><a href="#">Health</a> , Standard 05/10/2016<br><a href="#">Housing assistance</a> , Standard 01/05/2013 |
| <b>Definition:</b>           | The geographic latitude of an address point on the earth, measured in decimal degrees north or south of the equator.  |
| <b>Data Element Concept:</b> | <a href="#">Address—geocode latitude</a>  |
| <b>Value Domain:</b>         | <a href="#">Latitude decimal degrees XN[N][.N(9)]</a>   |

## Value domain attributes

## Representational attributes

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

## Collection and usage attributes

|                       |  |
|-----------------------|--|
| <b>Guide for use:</b> | <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"><li>• +14.091360569</li><li>• +2</li><li>• -50.321</li></ul> |
|-----------------------|--|

## Source and reference attributes

|                                 |  |
|---------------------------------|--|
| <b>Submitting organisation:</b> | Australian Institute of Health and Welfare |
|---------------------------------|--|

**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\(9\)\]](#)  
[Aged Care](#), Standard 30/06/2023  
[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 dictionary](#)  
[Community Services \(retired\)](#), Standard 06/02/2012  
[Disability](#), Standard 13/08/2015

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

[Aged care address cluster](#)  
[Aged Care](#), Standard 30/06/2023

***Conditional obligation:***

Conditional on the data being known.

[Dwelling address details cluster](#)  
[Housing assistance](#), Superseded 01/05/2013  
***DSS specific information:*** Unknown values are recorded as "U".

[Dwelling address details cluster](#)  
[Housing 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 cluster](#)  
[Housing 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 cluster](#)  
[Housing assistance](#), Standard 30/08/2017  
***DSS specific information:***

Unknown values should be recorded as "U".