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

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

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| Identifying and definitional attributes |
| Metadata item type: | Data Element |
| Short name: | Geocode longitude decimal degrees |
| Synonymous names: | Longitude |
| METEOR identifier: | 430469 |
| Registration status: | [Aged Care](https://meteor.aihw.gov.au/RegistrationAuthority/19), Standard 30/06/2023[Community Services (retired)](https://meteor.aihw.gov.au/RegistrationAuthority/1), Standard 06/02/2012[Disability](https://meteor.aihw.gov.au/RegistrationAuthority/16), Standard 13/08/2015[Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 05/10/2016[Housing assistance](https://meteor.aihw.gov.au/RegistrationAuthority/11), Standard 01/05/2013 |
| Definition: | The geographic longitude of an address point on the earth, measured in decimal degrees east or west of the Greenwich Meridian. |
| Data Element Concept: | [Address—geocode longitude](https://meteor.aihw.gov.au/content/430461)  |
| Value Domain: | [Longitude decimal degrees XN[NN][.N(9)]](https://meteor.aihw.gov.au/content/430400) |

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| Value domain attributes |
| Representational attributes |
| Representation class: | Identifier |
| Data type: | Geospatial |
| Format: | XN[NN][.N(9)] |
| Maximum character length: | 13 |
| Unit of measure: | Decimal degree |

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| Collection and usage attributes |
| Guide for use: | The 'X' in the longitude format symbolises the designator symbol “+” or “-” and should be placed prior to the first number.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 (-).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).Usage examples:* +149.091360569
* +2
* -50.321-
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| Source and reference attributes |
| Submitting organisation: | 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. |

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| 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)]](https://meteor.aihw.gov.au/content/430445)       [Aged Care](https://meteor.aihw.gov.au/RegistrationAuthority/19), Standard 30/06/2023       [Community Services (retired)](https://meteor.aihw.gov.au/RegistrationAuthority/1), Standard 06/02/2012       [Disability](https://meteor.aihw.gov.au/RegistrationAuthority/16), Standard 13/08/2015       [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 05/10/2016       [Housing assistance](https://meteor.aihw.gov.au/RegistrationAuthority/11), Standard 01/05/2013See also [Address—geocode latitude, degrees minutes seconds Xd{d}{mm}{ss}{.ss}](https://meteor.aihw.gov.au/content/469923)       [Community Services (retired)](https://meteor.aihw.gov.au/RegistrationAuthority/1), Standard 10/04/2013       [Disability](https://meteor.aihw.gov.au/RegistrationAuthority/16), Standard 13/08/2015See also [Address—geocode longitude, degrees minutes seconds Xd[dd]{mm}{ss}{.ss}](https://meteor.aihw.gov.au/content/469925)       [Community Services (retired)](https://meteor.aihw.gov.au/RegistrationAuthority/1), Standard 10/04/2013       [Disability](https://meteor.aihw.gov.au/RegistrationAuthority/16), Standard 13/08/2015 |
| Implementation in Data Set Specifications: | [Address details data dictionary](https://meteor.aihw.gov.au/content/434713)       [Community Services (retired)](https://meteor.aihw.gov.au/RegistrationAuthority/1), Standard 06/02/2012       [Disability](https://meteor.aihw.gov.au/RegistrationAuthority/16), Standard 13/08/2015[Address geocode cluster](https://meteor.aihw.gov.au/content/611155)       [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 05/10/2016[Aged care address cluster](https://meteor.aihw.gov.au/content/775085)       [Aged Care](https://meteor.aihw.gov.au/RegistrationAuthority/19), Standard 30/06/2023***Conditional obligation:*** Conditional on the data being known.[Dwelling address details cluster](https://meteor.aihw.gov.au/content/479803)       [Housing assistance](https://meteor.aihw.gov.au/RegistrationAuthority/11), Superseded 01/05/2013***DSS specific information:*** Unknown values are recorded as "U".[Dwelling address details cluster](https://meteor.aihw.gov.au/content/467524)       [Housing assistance](https://meteor.aihw.gov.au/RegistrationAuthority/11), Superseded 01/05/2013***Implementation start date:*** 28/09/2011[Indigenous Community Housing DSS 2018-](https://meteor.aihw.gov.au/content/711226)       [Housing assistance](https://meteor.aihw.gov.au/RegistrationAuthority/11), 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](https://meteor.aihw.gov.au/content/498022)       [Housing assistance](https://meteor.aihw.gov.au/RegistrationAuthority/11), Superseded 30/08/2017       [Indigenous](https://meteor.aihw.gov.au/RegistrationAuthority/6), Standard 01/05/2013***DSS specific information:*** Unknown values should be recorded as "U".[Indigenous community housing dwelling address details cluster](https://meteor.aihw.gov.au/content/614161)       [Housing assistance](https://meteor.aihw.gov.au/RegistrationAuthority/11), Standard 30/08/2017***DSS specific information:*** Unknown values should be recorded as "U". |