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](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 01/05/2013  See 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 13/08/2015  See 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". |