Address—geocode longitude, degrees minutes seconds Xd[dd]{mm}{ss}{.ss}

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

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| Identifying and definitional attributes | |
| Metadata item type: | Data Element |
| Short name: | Geocode longitude sexagismal |
| Synonymous names: | Longitude |
| METEOR identifier: | 469925 |
| Registration status: | [Community Services (retired)](https://meteor-uat.aihw.gov.au/RegistrationAuthority/3), Standard 10/04/2013  [Disability](https://meteor-uat.aihw.gov.au/RegistrationAuthority/18), Standard 13/08/2015 |
| Definition: | The geographic longitude of an address point on the earth, measured in degrees, minutes and seconds east or west of the Greenwich Meridian. |

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| Data element concept attributes | |
| Identifying and definitional attributes | |
| Data element concept: | [Address—geocode longitude](https://meteor-uat.aihw.gov.au/content/430461) |
| METEOR identifier: | 430461 |
| Registration status: | [Community Services (retired)](https://meteor-uat.aihw.gov.au/RegistrationAuthority/3), Standard 06/02/2012  [Housing assistance](https://meteor-uat.aihw.gov.au/RegistrationAuthority/13), Standard 02/05/2013  [Disability](https://meteor-uat.aihw.gov.au/RegistrationAuthority/18), Standard 13/08/2015  [Health!](https://meteor-uat.aihw.gov.au/RegistrationAuthority/14), Standard 05/10/2016 |
| Definition: | The geographic longitude of an address point on the earth east or west of the Greenwich Meridian. |
| Object class: | [Address](https://meteor-uat.aihw.gov.au/content/428657) |
| Property: | [Geocode longitude](https://meteor-uat.aihw.gov.au/content/430459) |
| 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. |

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| Value domain attributes | |
| Identifying and definitional attributes | |
| Value domain: | [Longitude degrees minutes seconds Xd[dd]{mm}{ss}{.ss}](https://meteor-uat.aihw.gov.au/content/469915) |
| METEOR identifier: | 469915 |
| Registration status: | [Community Services (retired)](https://meteor-uat.aihw.gov.au/RegistrationAuthority/3), Standard 10/04/2013  [Disability](https://meteor-uat.aihw.gov.au/RegistrationAuthority/18), Standard 13/08/2015 |
| Definition: | A numeric measurement of longitude represented in degrees, minutes, seconds and decimal seconds as a combination of the sexagismal and decimal format. |

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| Representational attributes | | |
| Representation class: | Identifier | |
| Data type: | Geospatial | |
| Format: | Xd[dd]{mm}{ss}{.ss} | |
| Maximum character length: | 10 | |
| Unit of measure: | Degree Minute Second | |

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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 'd' should be used to represent the degrees as a one, two or three digit number. The 'm' should be used to represent minutes as a two digit number (i.e. a place holding zero should be used for minute values under 10 for clarity). The 's' should be used to represent seconds (before the decimal) and decimal seconds (after the decimal), as a two digit number (i.e. a place holding zero should be used for second and decimal second values under 10 for clarity). Zero may also be a valid value, such as where there is no minute value but there is a second value.  As a minimum the designator and a one digit representation for degrees must be populated. The remaining brackets and braces are optional, however, if seconds or decimal seconds are to be used the preceeding values must also be populated (i.e. seconds cannot be populated without minutes being populated, and decimal seconds can not be populated without a seconds value).  Usage example: a traditional degrees, minutes & seconds representation for longitude of + 40° 09' 09.05" should be represented as a string format +400909.05 (Note: this is not a decimal degrees representation format, but a concatenation of the degree, minute, second and decimal second values). |
| Comments: | The ISO 6709 standard recommends leading zeroes for degree values less than 100, however this has not been implemented in the METeOR standard, in accordance with METeOR business rules. |

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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. |

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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 decimal degrees (e.g. 150.987123), 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>)  Example: DMS: -75° 59' 32.483" converts to -75.992356389 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-uat.aihw.gov.au/content/430445)  [Community Services (retired)](https://meteor-uat.aihw.gov.au/RegistrationAuthority/3), Standard 06/02/2012  [Disability](https://meteor-uat.aihw.gov.au/RegistrationAuthority/18), Standard 13/08/2015  [Health!](https://meteor-uat.aihw.gov.au/RegistrationAuthority/14), Standard 05/10/2016  [Housing assistance](https://meteor-uat.aihw.gov.au/RegistrationAuthority/13), Standard 01/05/2013  See also [Address—geocode latitude, degrees minutes seconds Xd{d}{mm}{ss}{.ss}](https://meteor-uat.aihw.gov.au/content/469923)  [Community Services (retired)](https://meteor-uat.aihw.gov.au/RegistrationAuthority/3), Standard 10/04/2013  [Disability](https://meteor-uat.aihw.gov.au/RegistrationAuthority/18), Standard 13/08/2015  See also [Address—geocode longitude, decimal degrees XN[NN][.N(9)]](https://meteor-uat.aihw.gov.au/content/430469)  [Community Services (retired)](https://meteor-uat.aihw.gov.au/RegistrationAuthority/3), Standard 06/02/2012  [Disability](https://meteor-uat.aihw.gov.au/RegistrationAuthority/18), Standard 13/08/2015  [Health!](https://meteor-uat.aihw.gov.au/RegistrationAuthority/14), Standard 05/10/2016  [Housing assistance](https://meteor-uat.aihw.gov.au/RegistrationAuthority/13), Standard 01/05/2013 |
| Implementation in Data Set Specifications: | [Address details data dictionary](https://meteor-uat.aihw.gov.au/content/434713)  [Community Services (retired)](https://meteor-uat.aihw.gov.au/RegistrationAuthority/3), Standard 06/02/2012  [Disability](https://meteor-uat.aihw.gov.au/RegistrationAuthority/18), Standard 13/08/2015 |