

Standard Data Elements for Latitude/Longitude

The standard offers a common and consistent way to represent latitude and longitude information. This State/EPA data standard was approved by the Environmental Data Standards Council on May 31, 2001 and by the Environmental Protection Agency on November 21, 2000.

Data Elements	Definitions	Length	Code Set	EDR DE ID
Mandatory				
Latitude Measure	The measure of the angular distance on a meridian north or south of the equator.	10	No	5518
Longitude Measure	The measure of the angular distance on a meridian east or west of the prime meridian.	11	No	5520
Source Map Scale Number	The number that represents the proportional distance on the ground for one unit of measure on the map or photo.	10	No	5318
Horizontal Accuracy Measure	The measure of the accuracy (in meters) of the latitude and longitude coordinates.	6	No	5264
Textual Data or Code Data acceptable for the following Elements:				
Horizontal Collection Method Text	The text that describes the method used to determine the latitude and longitude coordinates for a point on the earth.	60	Yes	5731
Horizontal Collection Method Code	The code that represents the method used to determine the latitude and longitude coordinates for a point on the earth.	3	Yes	5238
Reference Point Text	The text that identifies the place for which geographic coordinates were established.	50	Yes	5288
Reference Point Code	The code that represents the place for which geographic coordinates were established.	3	Yes	5608

Horizontal Reference Datum Name	The name that describes the reference datum used in determining latitude and longitude coordinates.	7	Yes	5292
Horizontal Reference Datum Code	The code that represents the reference datum used in determining latitude and longitude coordinates.	3	Yes	5308
Optional				
Data Collection Date	The calendar date when data were collected.	8	No	5296
Location Comments Text	The text that provides additional information about the geographic coordinates.	150	No	5616
Vertical Measure	The measure of elevation (i.e. the altitude), in meters, above or below are reference datum.	10	No	5612
Vertical Accuracy Measure	The measure of the accuracy (in meters) of the vertical measure (i.e. the altitude) of a reference point.	8	No	5312
Textual Data or Code Data acceptable for the following Elements:				
Vertical Collection Method Text	The text that describes the method used to collect the vertical measure(i.e., the altitude) of a reference point.	60	Yes	5326
Vertical Collection Method Code	The code that represents the method used to collect the vertical measure	3	Yes	5314
Vertical Reference Datum Name	The name of the reference datum used to determine the vertical measure (i.e., the altitude).	17	Yes	5324
Vertical Reference Datum Code	The code that represents the reference datum used to determine the vertical measure (i.e., the altitude).	3	Yes	5306
Verification Method Text	The text that describes the process used to verify the latitude and longitude coordinates.	50	Yes	5737
Verification Method Code	The code that represents the process used to verify the latitude and longitude coordinates.	3	Yes	5268

Coordinate Data Source Name	The name of the party responsible for providing the latitude and longitude coordinates.	35	Yes	5322
Coordinate Data Source Code	The code that represents the party responsible for providing the latitude and longitude coordinates.	3	Yes	5310
Geometric Type Name	The name that identifies the geometric entity represented by one point or a sequence of latitude and longitude points.	6	Yes	5761
Geometric Type Code	The code that represents the geometric entity represented by one point or a sequence of latitude and longitude points.	3	Yes	5614