

Finding Latitude & Longitude or UTM Coordinates of a Point

Activity 1.2

Name: _____ Course/Section: _____ Date: _____

- A** Air samples have been collected at the Mauna Loa Observatory (MLO) on the main island of Hawaii since the late 1950s and analyzed to determine the concentration of carbon dioxide (CO_2) in the atmosphere. Located at 3397 m above sea level on the north slope of the Mauna Loa Volcano, this remote sampling site is high enough so that contamination is minimized. The location of MLO is shown by the yellow-filled circle in Fig. A1.2.1, which is a map that uses the geographic coordinate system of decimal latitude and longitude. One of the orange lines through the site extends north-south along a meridian—an arc of equal longitude—and the other extends east-west along a parallel—a circle of equal latitude (Fig. 1.4).

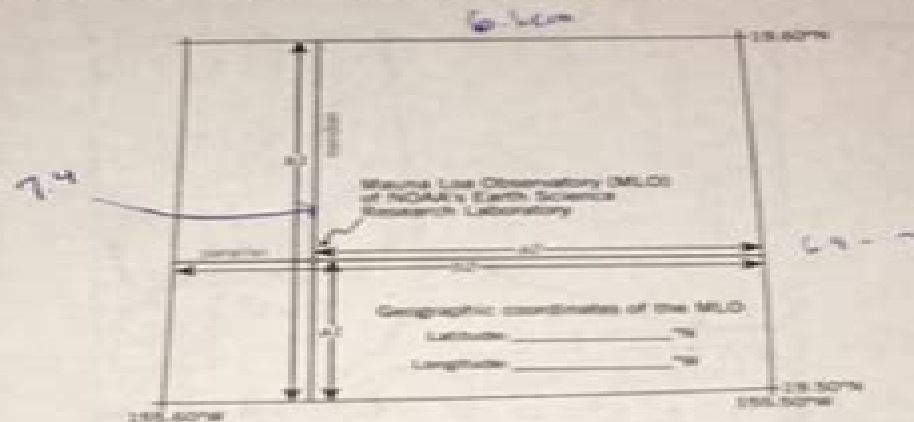


Figure A1.2.1

- Latitude 19.50°N is the minimum latitude shown on the map. Carefully measure the distance along the orange line from the 19.50°N parallel to the MLO site. We will call that map-distance $a1$. $a1 = \underline{2.6}$ cm
 - Measure the total map distance along that same orange line from the 19.50°N parallel through the MLO site to the 19.60° parallel and call that map distance $b1$. $b1 = \underline{7.7}$ cm
 - We know the difference in latitude from the bottom of the map at 19.50°N to the top of the map at 19.60°N and call that distance $d1$. $d1 = \underline{0.1^\circ}$
 - We would like to know the difference in latitude between 19.50°N and the MLO site and will call this unknown quantity $c1$. The ratio of $a1$ to $b1$ is the same as the ratio of $c1$ to $d1$. Use what you learned about proportions by reading the text earlier in this chapter to find $c1$. $c1 = \underline{0.1^\circ}$
 - Determine the latitude of the MLO site ($19.50^\circ\text{N} + c1$) $\underline{19.60^\circ\text{N}}$
 - Just in case you come across this situation again in the (near) future, write a general equation to solve this type of equation directly using the variable names a , b , c , and d : $c = \underline{\frac{a \cdot d}{b}}$
- Follow the same general procedure to find the longitude of the MLO site.
- Map the distance from longitude 155.50°W to MLO ($a2$), recognizing that longitude 155.50°W is the minimum longitude shown on the map: $a2 = \underline{3.3}$ cm.

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