Comment on essd-2022-230
Anonymous Referee #3


Soil information in Ecuador was rearranged and compiled with a homogeneous structure from two major projects. The database could be easily downloaded and used, and is valuable in many related fields. This paper is suitable to be published in Earth System Science Data. In the following lines, authors will find minor comments:

Soil properties from which layer (e.g. 0-10 cm, 10-20 cm, 20-30 cm, etc.) were not given, if the information was supplied, the database would be more valuable.

Line 68: Is "soil organic carbon (SOC)" same with "organic carbon (CO)"? Please explain clearly in the manuscript or use uniformly.

Line 162: “This format was use since this process was done with the free access program”?

Line 245: Are there only two ecosystem types (cropland and forest) in Ecuador? What is their proportions?

Figure 1: The left map is small, and the location of Ecuador is not clear, which could be marked with an arrow.

Figure 3: The unit of Depth should be given.
Table 1, Table 2: The common units of Longitude and Latitude are °.

Table 2: “Longitud” should be Longitude, “Latitud” should be Latitude.

Are sand, silt and clay separated with the diameter of soil particles? If so, the diameter ranges should be introduced in the manuscript.

What is “Amonical nitrogen”? More introduction in Description.

In “Calculated multiplying by factor 1.72 the OC content”, OC or CO? Because Organic carbon is abbreviated into CO in the manuscript.

Table 3: The units of the variables should be shown.

Are the values in the rows of the variables the total of all data points?

In “Farming 9675 – Forest 3694 data points”, the symbol of “ – ” is confused.

“Effective Dept” should be “Effective Depth”.

Table 4: Please explain clearly the meaning of number before and after comma.

The values could not correspond clearly with Sector.