SOIL Discuss., 1, C93–C94, 2014 www.soil-discuss.net/1/C93/2014/ © Author(s) 2014. This work is distributed under the Creative Commons Attribute 3.0 License.



SOIL

1, C93-C94, 2014

Interactive Comment

## Interactive comment on "Soil properties and pre-Columbian settlement patterns in the Monumental Mounds Region of the Llanos de Moxos, Bolivian Amazon" by U. Lombardo et al.

## U. Lombardo et al.

lombardo@giub.unibe.ch

Received and published: 17 September 2014

P 88, Lines 13-15 says that pollen analysis shows maize pollen but does not say when?

Ages will be added in P88 line 15, the sentence will read: "...suggesting that maize was cultivated in the savannah from AD 400 to AD 1280 (Whitney et al., 2013)".

In Methods, there is a good explanation for soils but not for spatial remote sensing to explain how they draw conclusions about the remote sensing. Should say the PR0 is x cm lower, 0-100 cm, than PR1?

The following will be added in P89 line 18: "The remote sensing analysis is based on C93

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

**Discussion Paper** 



data retrieved from the ICESat (Ice, Cloud, and land Elevation Satellite) Laser altimetry, which operated between 2003 and 2009 with an orbit perpendicular to the equator. Data has been gathered by the ICESat with high spatial resolution over polar areas and along sub-vertical paths spaced about 80 km at the latitude of the LM. For each of these paths, several datasets spaced a few hundreds of meters are available. ICEsat has a vertical error of  $0.01\pm0.04$  m on flat surfaces (Carabajal and Harding, 2006). The elevation is measured on a circular to slightly elliptical surface with a diameter of approximately 55 meters (pink circles in Fig. 4)." Line 23-24 P90 will read: "The PR0 levees are generally less elevated, with respect to the savannah surrounding them, than the PR1 levees (Fig. 4)"

Table 1 could use some separators between the profiles so that a, b . . . stand out, and I am not sure why their analytical horizons do not follow the horizon depths. For examples, why do they present information for horizons AHn and AHn-Bgn rather than AHn and Bgn?

In the file I submitted, the different profiles were better separated, but the formatting was lost with the conversion to PDF. I don't know if this is a problem of the submission webpage or the format used by SOIL. Two descriptors are used together when a horizon comprises mixed sediments/properties, for example in the case of tongues going down from the upper horizon.

Carabajal, C.C., Harding, D.J., 2006. SRTM C-Band and ICESat laser altimetry elevation comparisons as a function of tree cover and relief. Photogrammetric Engineering & Remote Sensing, 72(3), 287-298.

Interactive comment on SOIL Discuss., 1, 81, 2014.

## SOIL

1, C93-C94, 2014

Interactive Comment

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

