

MAAP #95: Oil Palm Baseline for the Peruvian Amazon



High-resolution satellite image of oil palm plantation in Peruvian Amazon. Imagery: DigitalGlobe. [Click to enlarge.](#)

In previous reports, we have documented that **oil palm** is one of the deforestation drivers in the Peruvian Amazon (MAAP [#41](#), [#48](#)). However, the full extent of this sector's deforestation impact is not well known.

A [newly published study](#) assessed the deforestation impacts and risks posed by oil palm expansion in the Peruvian Amazon. Here, we review some of the key findings.

We first present a **Base Map** of oil palm in the Peruvian Amazon, highlighting the plantations that have caused recent deforestation. We then show two **zooms** of the most important oil palm areas, located in the central and northern Peruvian Amazon, respectively.

In summary, we document over **86,600 hectares** (214,000 acres) of oil palm, of which we have confirmed the deforestation of at least **31,500 hectares** for new plantations (equivalent to nearly 59,000 American football fields).

In other words, yes oil palm does cause Amazon deforestation, but not nearly as much as Asia.



Baseline Map. Oil palm in Peruvian Amazon. Data: MAAP, Vijay et al 2018, Planet

Base Map

A detailed analysis of high-resolution satellite imagery (DigitalGlobe and Planet) revealed that oil palm plantations now cover **86,623 hectares** (214,050 acres) in the Peruvian Amazon (see Base Map).

In the **Base Map**, both yellow and red indicates the documented oil palm plantations, with **red** corresponding to those that caused deforestation.

The plantations are concentrated in the central and northern Peruvian Amazon (Ucayali, San Martín, Huánuco, and Loreto regions).

Deforestation

In the Base Map, as noted above, **red** indicates oil palm plantations that caused deforestation since 2000.

A satellite imagery time series analysis revealed that oil palm has directly led to the deforestation of at least **31,500 hectares** (77,838 acres) since 2000.

This analysis is timely because the National Palm Oil Board of Peru (Junpalma) recently announced that "the producers have set their goal to reach **250,000 hectares** of oil palm plantations by 2019, in order to cover the entire national market "(Source: [Gestion](#)).

For example, it is important to note that the Peruvian company Grupo Palmas several years ago proposed four new plantations that would cause the deforestation of 23,000 hectares of primary forest (see [MAAP #64](#)).

Clarification: It is important to note that, as indicated in [MAAP #64](#) (case C), one of the most positive news stories in 2017 was that these 4 large-scale oil palm plantations were stopped before any deforestation event occurred. Grupo Palmas is now working towards a zero deforestation value chain and has a new sustainability policy, as indicated in that analysis.

Zoom Central Peruvian Amazon

Image 1 shows a zoom of the oil palm plantations in the central Peruvian Amazon. Most notable is the deforestation for two large-scale oil palm plantations near Pucallpa ([MAAP #41](#)). We have also described the growing oil palm deforestation in northern Huanuco ([MAAP #48](#)).

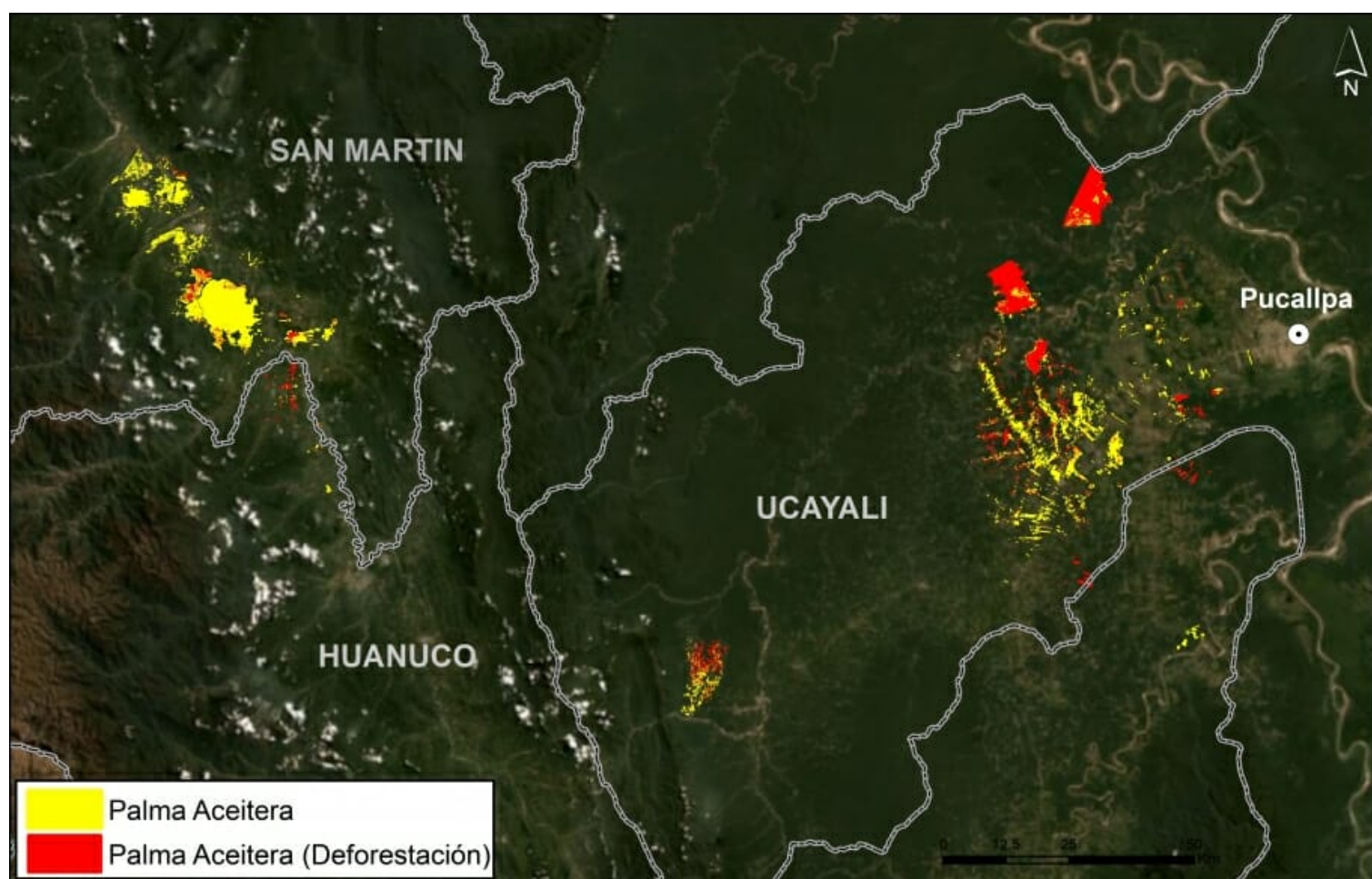


Image 1. Oil palm in central Peruvian Amazon. Data: MAAP, Vijay et al 2018, Planet

Zoom Northern Peruvian Amazon

Image 2 shows a zoom of the oil palm plantations in the northern Peruvian Amazon. Most notable is the deforestation for large-scale oil palm plantations along the Loreto-San Martín border ([MAAP #16](#)). More recently, we also described new large-scale oil palm deforestation in San Martín ([MAAP #92](#)).

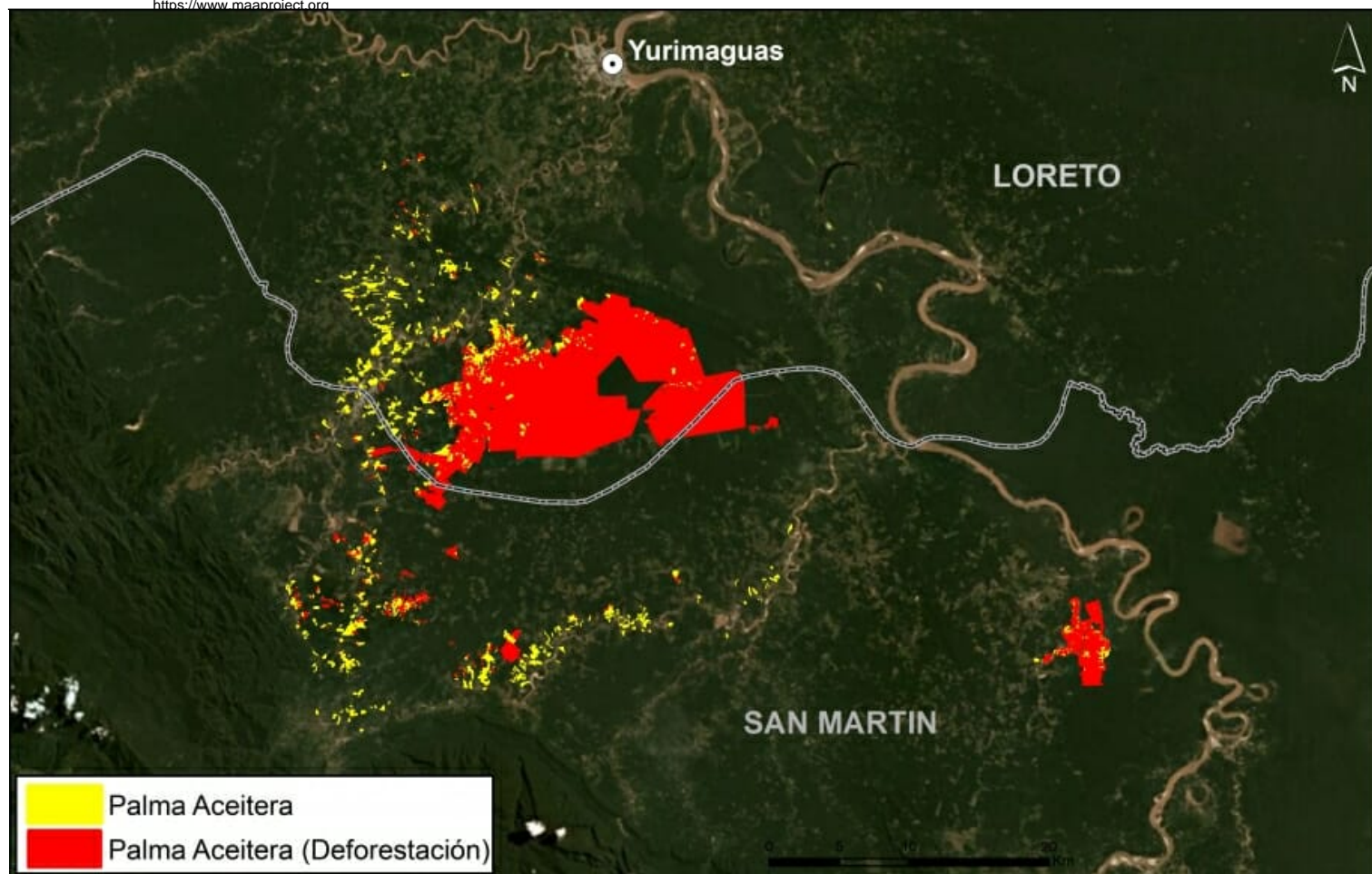


Image 2. Oil palm in northern Peruvian Amazon. Data: MAAP, Vijay et al 2018, Planet

Methodology

Vijay et al (2018) identified oil palm plantations within areas deforested between 2000 and 2015 based on visual analysis of very high-resolution (? 0.5 m) Worldview-2 and Worldview-3 satellite imagery (from 2014-2016) obtained from DigitalGlobe (NextView). The total oil palm identified from this source is 84,500 hectares.

We also included data for 2016-18 (as of September 2018) based on analysis of high (Planet) and very high-resolution (DigitalGlobe) satellite imagery by the MAAP team. The total oil palm identified from this source is an additional 2,123 hectares.

For areas of interest (Shanusi, Tocache, North Ucayali, San Martin East, Plantations of Pucallpa), we developed a "time series" analysis of satellite images to determine if oil palm has directly caused the observed deforestation.

References

Vijay V *et al* (2018) Deforestation risks posed by oil palm expansion in the Peruvian Amazon. *Environ. Res. Lett.* **13** 114010.
 Link: <http://iopscience.iop.org/article/10.1088/1748-9326/aae540/meta>

Interactive map: <https://sites.google.com/view/oilpalimperu>

Citation

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