Data Description at Zenodo:

This package supplements the following paper submitted to ESSD: Annual oil palm plantation maps in Malaysia and Indonesia from 2001 to 2016[1].

This dataset contains the updated version (v3) of the annual oil palm plantation maps for Malaysia and Indonesia from 2001 to 2018 at 100 resolution. Here, we presented the dataset with longer time span from 2001 to 2018 and the dataset covers the whole region of Malaysia and Indonesia. The additional results of the oil palm extent for 2017 and 2018 were mapped based on PALSAR-2 data. We applied the post-processing to the initial results for the whole period (2001-2018) including mode filtering, terrain filtering, intact forest and mangrove filtering. Additionally, we used the impervious layers from FROM-GLC10 (the 10-m resolution global land cover in 2017[2]) to filter out non-oil palm areas in the mapping results of 2017 and 2018.

The dataset contains the upper and lower versions with oil palm expansion and shrinkage (bi-directional). The upper and lower versions show the maximum and minimum distribution of oil palm areas and the differences between the two versions indicate the uncertainty range of the oil palm area (see details in the paper submitted). The data is written in GeoTiff file using the extension “.tif” and can be opened in GIS applications (e.g., QGIS, ArcGIS) and opening computing environment (e.g., R, matlab). The labels in the datasets are presented in the following table:

|  |  |
| --- | --- |
| Label | Class |
| 0 | No data |
| 1 | Oil Palm |

Reference:

[1] Xu, Y. et al. Annual oil palm plantation maps in Malaysia and Indonesia from 2001 to 2016. Earth Syst. Sci. Data 12, 847-867, doi:10.5194/essd-12-847-2020 (2020).

[2] Gong, P. et al. Stable classification with limited sample: transferring a 30-m resolution sample set collected in 2015 to mapping 10-m resolution global land cover in 2017. Science Bulletin 64, 370-373, doi: https://doi.org/10.1016/j.scib.2019.03.002 (2019).

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