

Supplementary Materials: Comparing Sentinel-2 MSI and Landsat 8 OLI imagery for monitoring selective logging in the Brazilian Amazon

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Table S1. Information about the sustainable forest management (SFM) plans implemented in the seven forest management units (FMU) analyzed in this study (Study areas 1 to 7). Study areas 8 to 10 are unlogged FMUs used for comparisons. These data were disclosed by the Brazilian Government, represented by the Institute of Environmental Protection of Amazonas State (IPAAM), under the Administrative Process N°1946/2017.

Study area	Geographic Coordinates*	License/ Authorization N°	Volume authorized for logging (m ³) **	Total area of the SFM (ha)***	Logging intensity (m ³ /ha)	Harvest activities at 09/2017
1	-61.5939, -8.0544	211/16	5,029.36	266.34	18.88	Yes
2	-61.7057, -7.9186	060/16	6,882.85	373.62	18.42	Yes
3	-61.6694, -8.0262	186/17	11,398.69	512.00	22.26	Yes
4	-61.5880, -7.7731	190/16	6,438.60	390.65	16.48	Yes
5	-61.3897, -7.6849	020/17	14,106.49	680.85	20.72	Yes
6	-61.5948, -7.9522	253/16	2,335.79	124.78	18.72	Yes
7	-61.1899, -8.1221	063/16	19,653.36	1009.51	19.47	Yes
8	-61.3474, 7.5243	238/17	—	—	—	No
9	-61.3147, -7.9660	154/17	—	—	—	No
10	-61.1977, -7.9018	266/17	—	—	—	No

*Centroid of the FMU's polygon (EPSG:4326, WGS 84). **Volume authorized for logging present in the License/Authorization, according to the data provided by IPAAM. It does not necessarily represent the actual volume of logged trees in the moment the mapping was done. ***Area of the polygon representing the SFM test sites.

Table S2. Reference data set used in this study.

Source	Acquisition date (year-month-day)	Image	Study area covered
PlanetScope	2016-08-14	133358_0e0d_3B_AnalyticMS	1
PlanetScope	2016-08-14	133456_0e3a_3B_AnalyticMS	2
PlanetScope	2016-08-14	133444_0e0f_3B_AnalyticMS	2,6
PlanetScope	2016-08-14	133443_0e0f_3B_AnalyticMS	2
PlanetScope	2016-08-14	133500_0e16_3B_AnalyticMS	3
PlanetScope	2016-08-14	133458_0e3a_3B_AnalyticMS	3
PlanetScope	2016-08-14	133457_0e3a_3B_AnalyticMS	3
PlanetScope	2016-08-14	133456_0e16_3B_AnalyticMS	4
PlanetScope	2016-08-14	133453_0e3a_3B_AnalyticMS	4
PlanetScope	2016-07-30	202333_0c81_3B_AnalyticMS	4
PlanetScope	2016-08-14	133441_0e0f_3B_AnalyticMS	4
PlanetScope	2016-08-14	133353_0e0d_3B_AnalyticMS	5
PlanetScope	2016-08-14	133352_0e0d_3B_AnalyticMS	5
PlanetScope	2016-07-30	202331_0c81_3B_AnalyticMS	6
PlanetScope	2016-07-30	202330_0c81_3B_AnalyticMS	6
PlanetScope	2016-08-11	153800_0c60_3B_AnalyticMS	7
PlanetScope	2016-08-14	133350_0e0d_3B_AnalyticMS	8
PlanetScope	2016-09-04	133404_0e2f_3B_AnalyticMS	9
PlanetScope	2016-08-09	133206_0e1f_3B_AnalyticMS	10
GeoEye-1*	2017-09-08	-----	1,3
PlanetScope	2017-08-19	134209_102f_3B_AnalyticMS	2
PlanetScope	2017-08-19	134207_102f_3B_AnalyticMS	4
PlanetScope	2017-08-19	134206_102f_3B_AnalyticMS	4
PlanetScope	2017-08-26	134148_103c_3B_AnalyticMS	5
PlanetScope	2017-08-30	134034_102e_3B_AnalyticMS	6
PlanetScope	2017-09-03	134120_1041_3B_AnalyticMS	7
PlanetScope	2017-08-26	134145_103c_3B_AnalyticMS	8
PlanetScope	2017-09-11	134052_1018_3B_AnalyticMS	9
PlanetScope	2017-09-03	134116_1041_3B_AnalyticMS	10

*From Google Maps API, available via OpenLayers Plugin for QGIS.



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