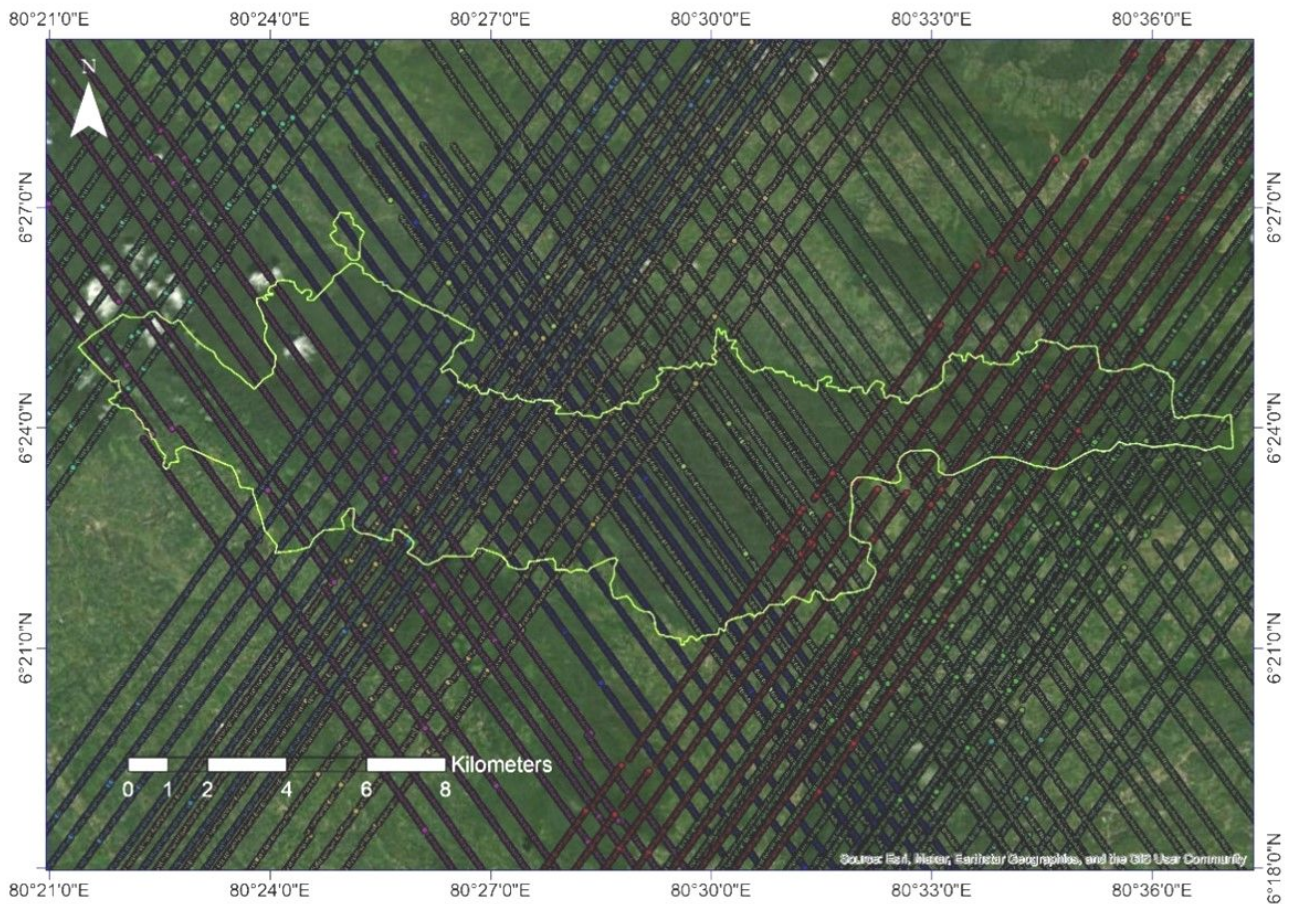
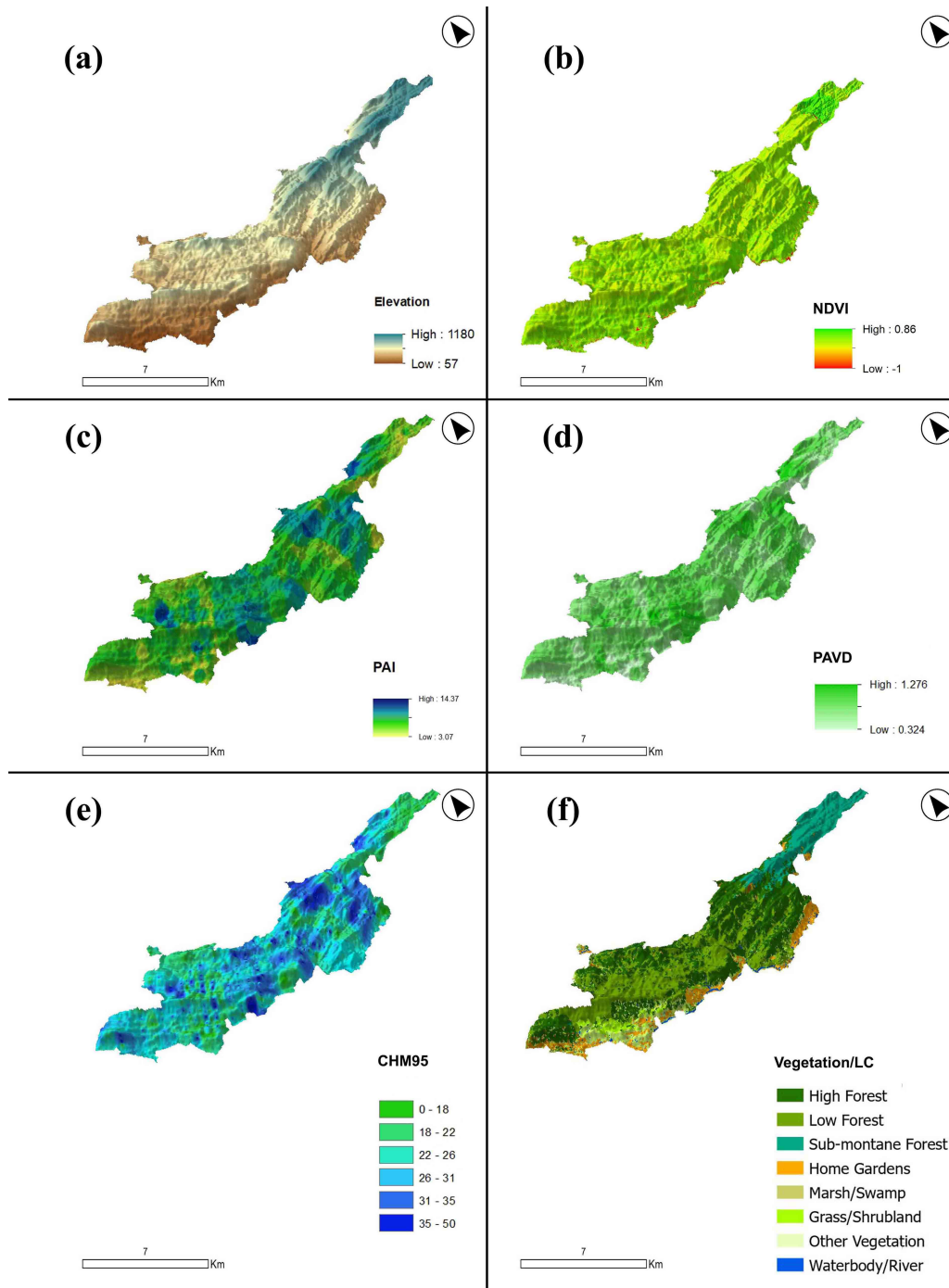


## Supplementary Material

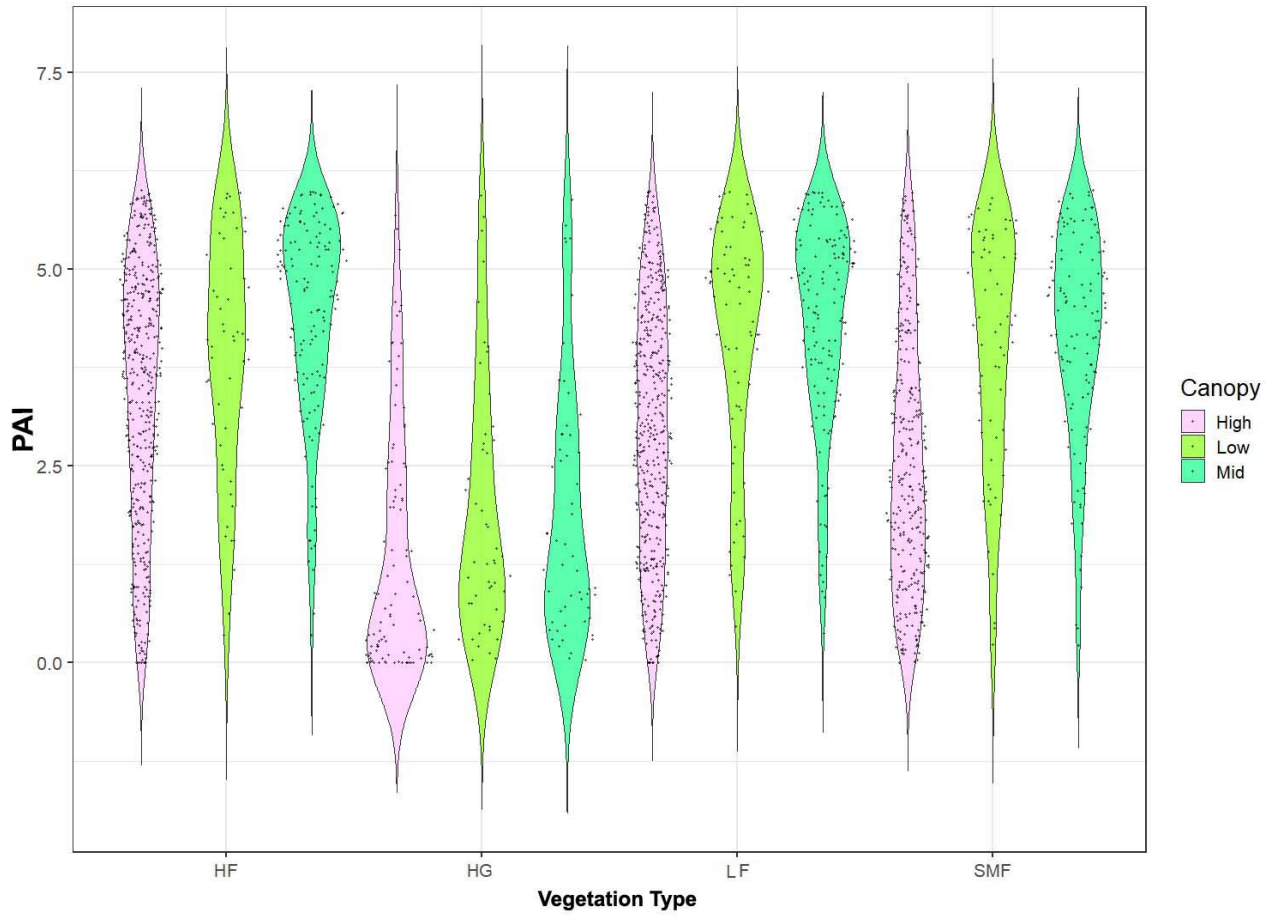
**Fig. S1** - Spatial distribution of the GEDI footprints. (Base map source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community).



**Fig. S2** - Spatial variation of (a) elevation, (b) NDVI, (c) PAI, (d) PAVD, (e) CHM95 and (f) vegetation distribution of SFR.



**Fig. S3** - Violin plot of PAI at different canopy strata of major vegetation types.



**Fig. S4** - Variation of PAVD at different forest strata (a) 10m, (b) 20m, (c) 30m, (d) 45m and (e) total cumulative at 45m against canopy height.

