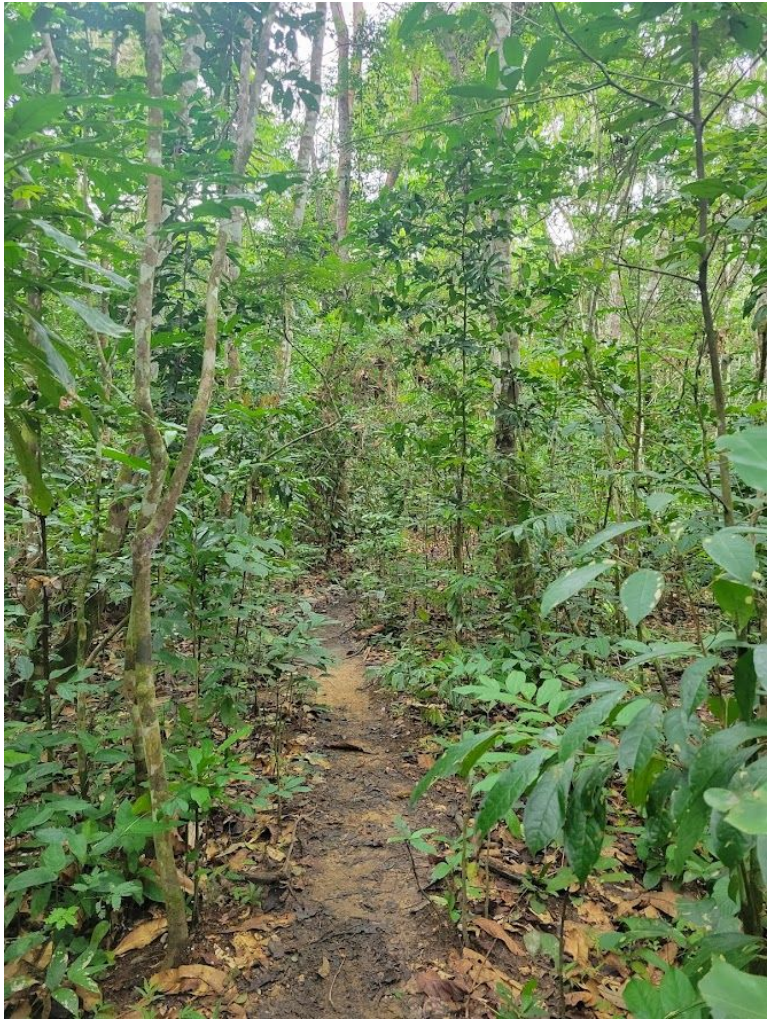
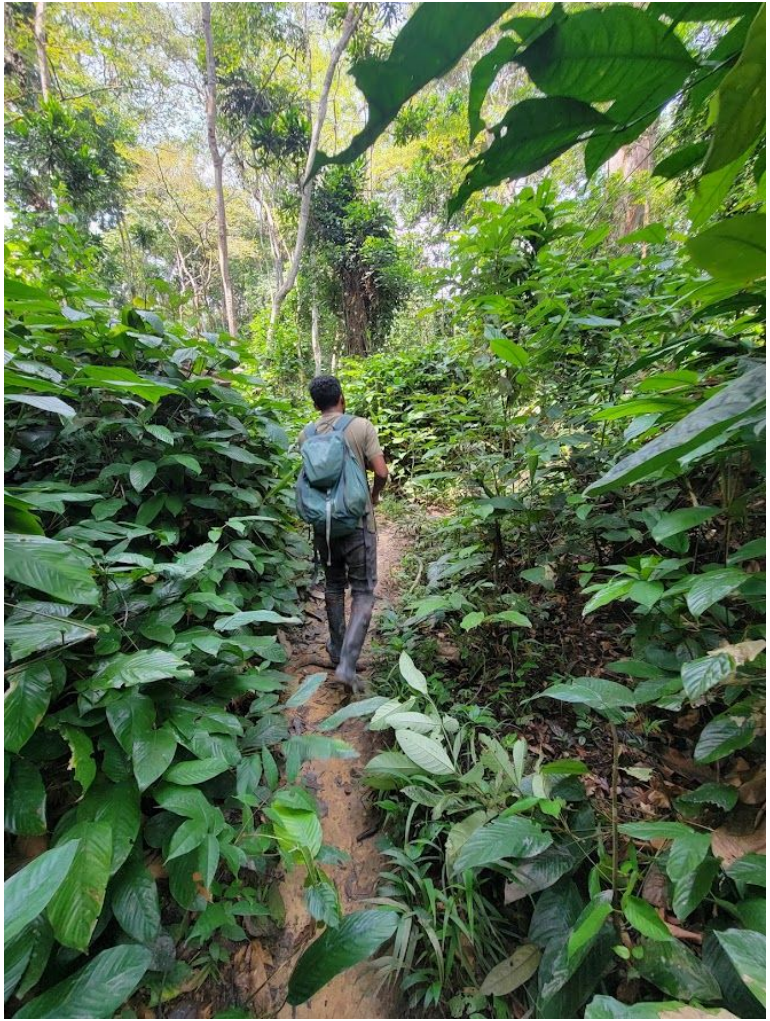
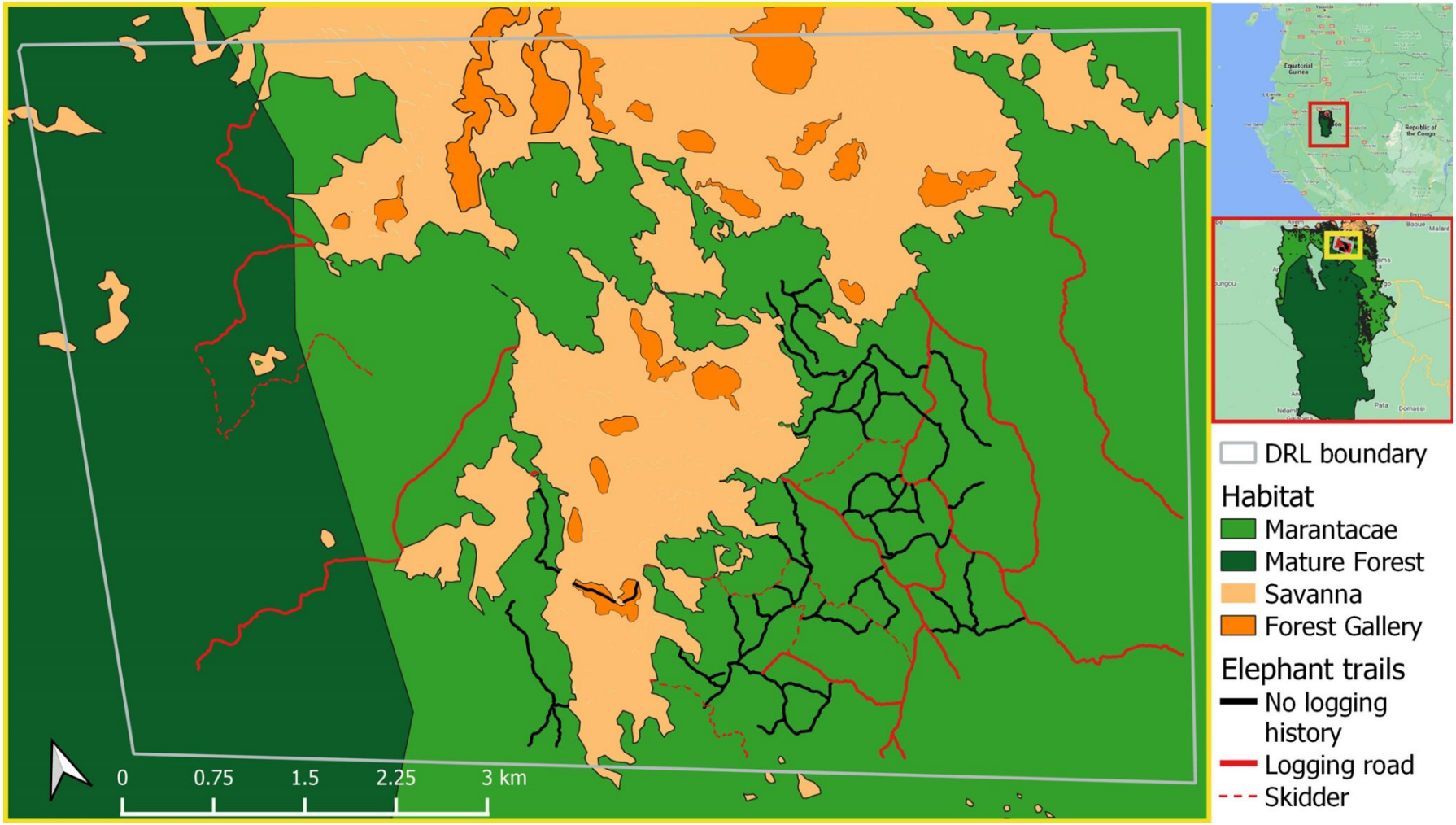
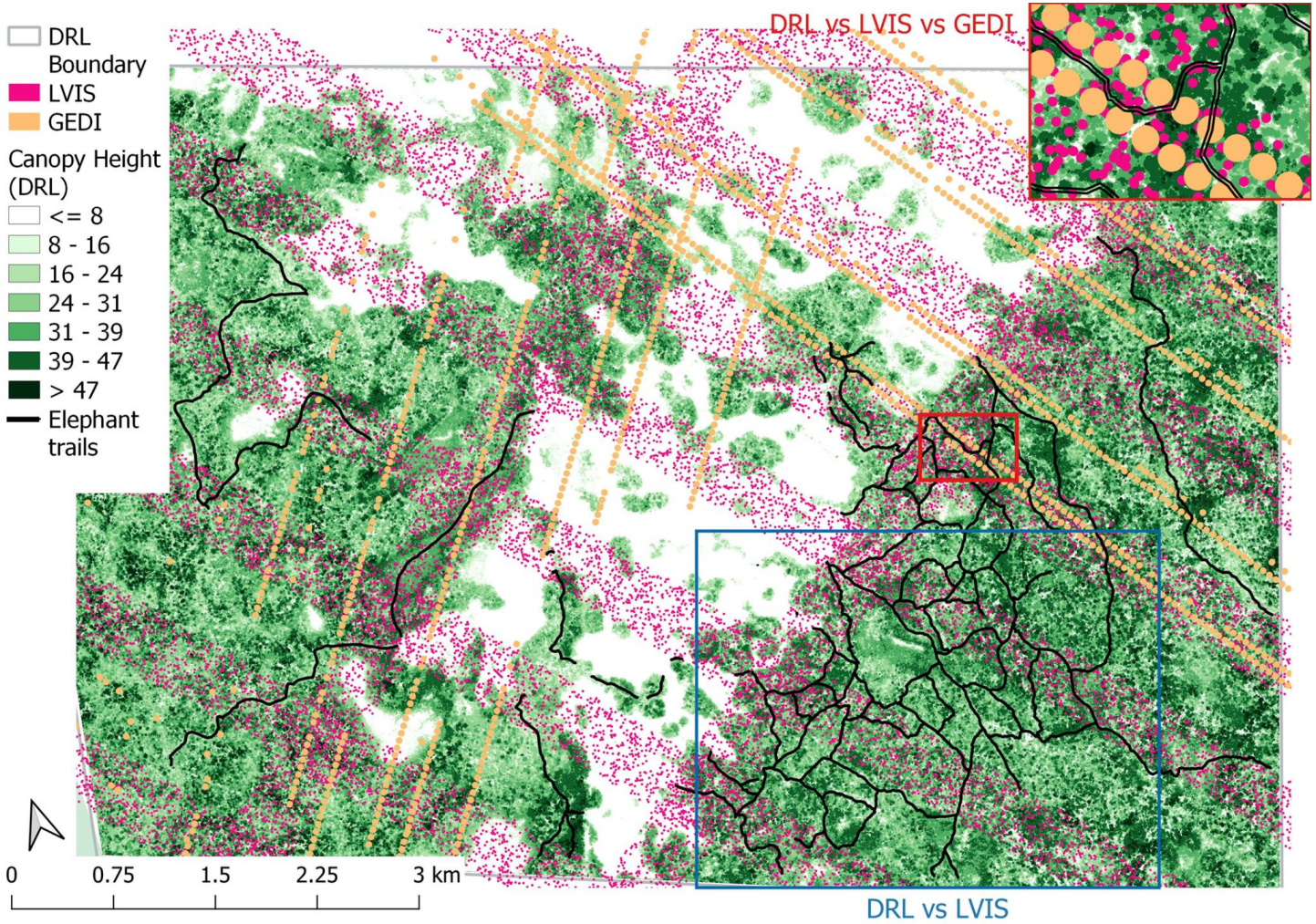
Uncovering African forest elephants' ecological role: Investigating elephant trail canopy structure metrics with multiscale lidar

Keany, J., Burns, P., Abraham, A., Jantz, P., Abernethy, K., Makaga, L., Saatchi, S., Doughty, C

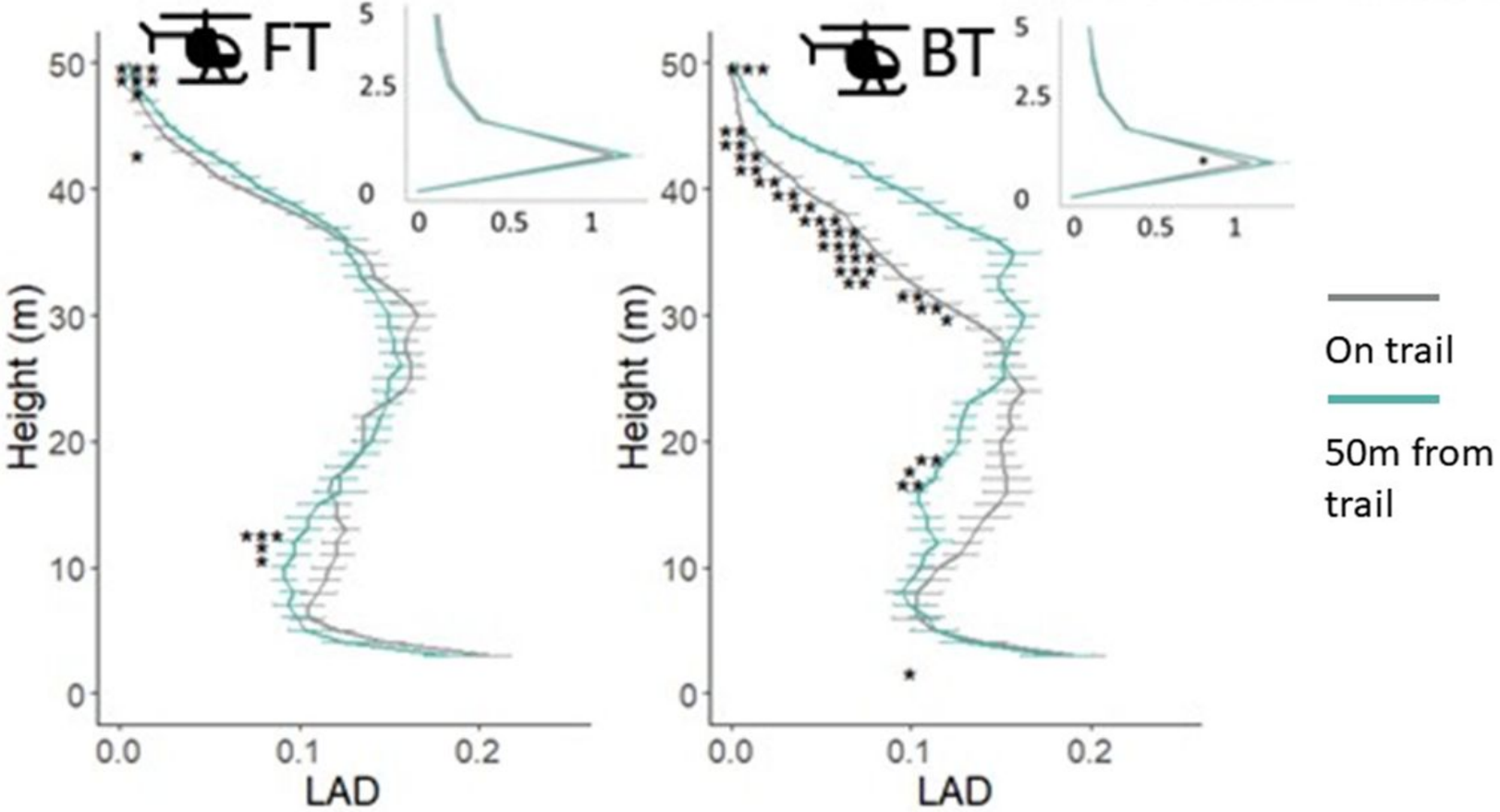


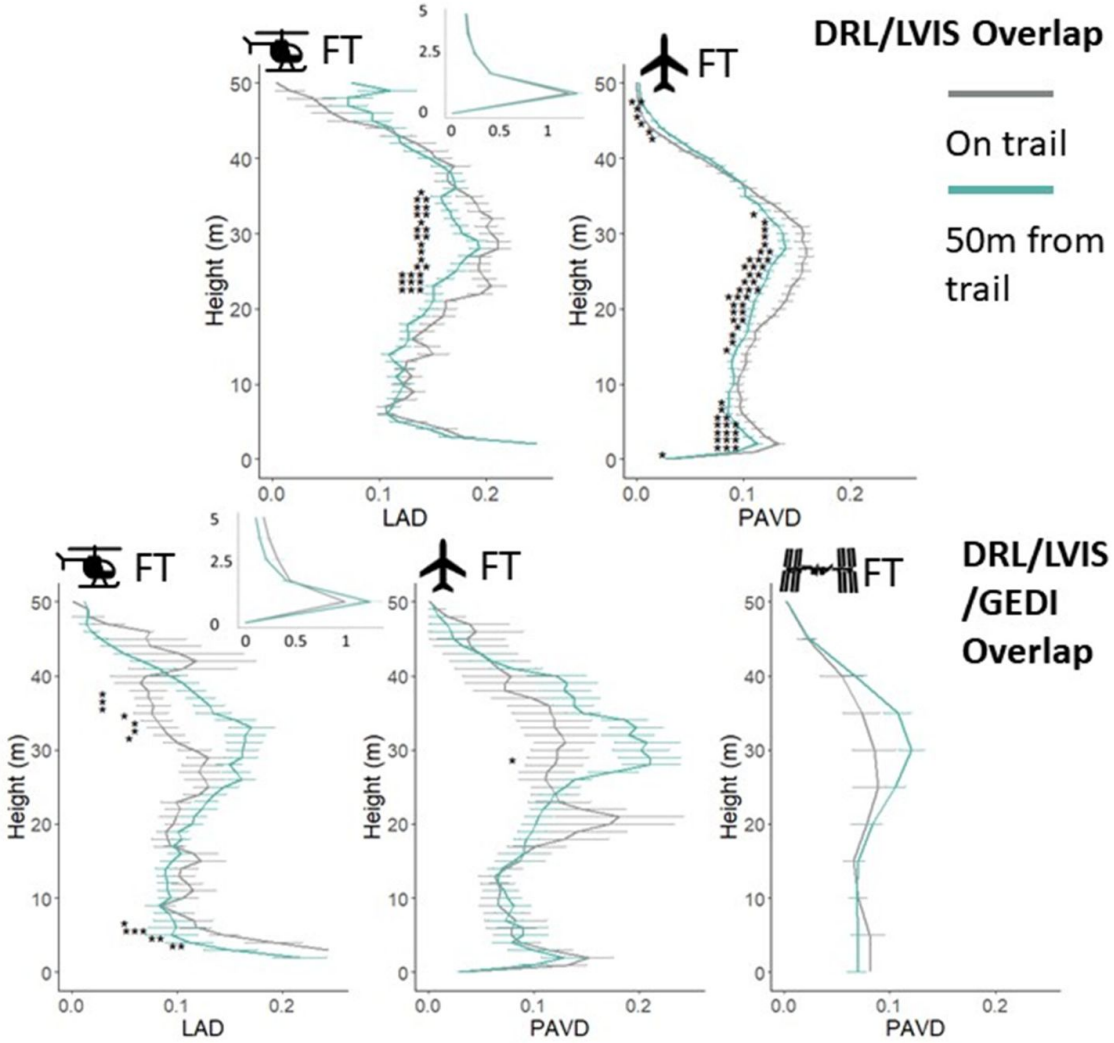



0
0.75
1.5
2.25
3 km
DRL boundary
Habitat
Marantacae
Mature Forest
Savanna
Forest Gallery
Elephant trails
No logging history
Logging road
Skidder


DRL Boundary
LVIS
GEDI
Canopy Height (DRL)
<= 8
8 - 16
16 - 24
24 - 31
31 - 39
39 - 47
> 47
Elephant trails
DRL vs LVIS vs GEDI
DRL vs LVIS
0
0.75
1.5
2.25
3 km

All Trails with DRL




DRL/LVIS Overlap
On trail
50m from trail
FT
FT
Height (m)
LAD
PAVD
DRL/LVIS /GEDI Overlap
FT
FT
FT
Height (m)
LAD
PAVD
PAVD