

Mirador – Río Azul, GTM

Forest Loss 2001–2025

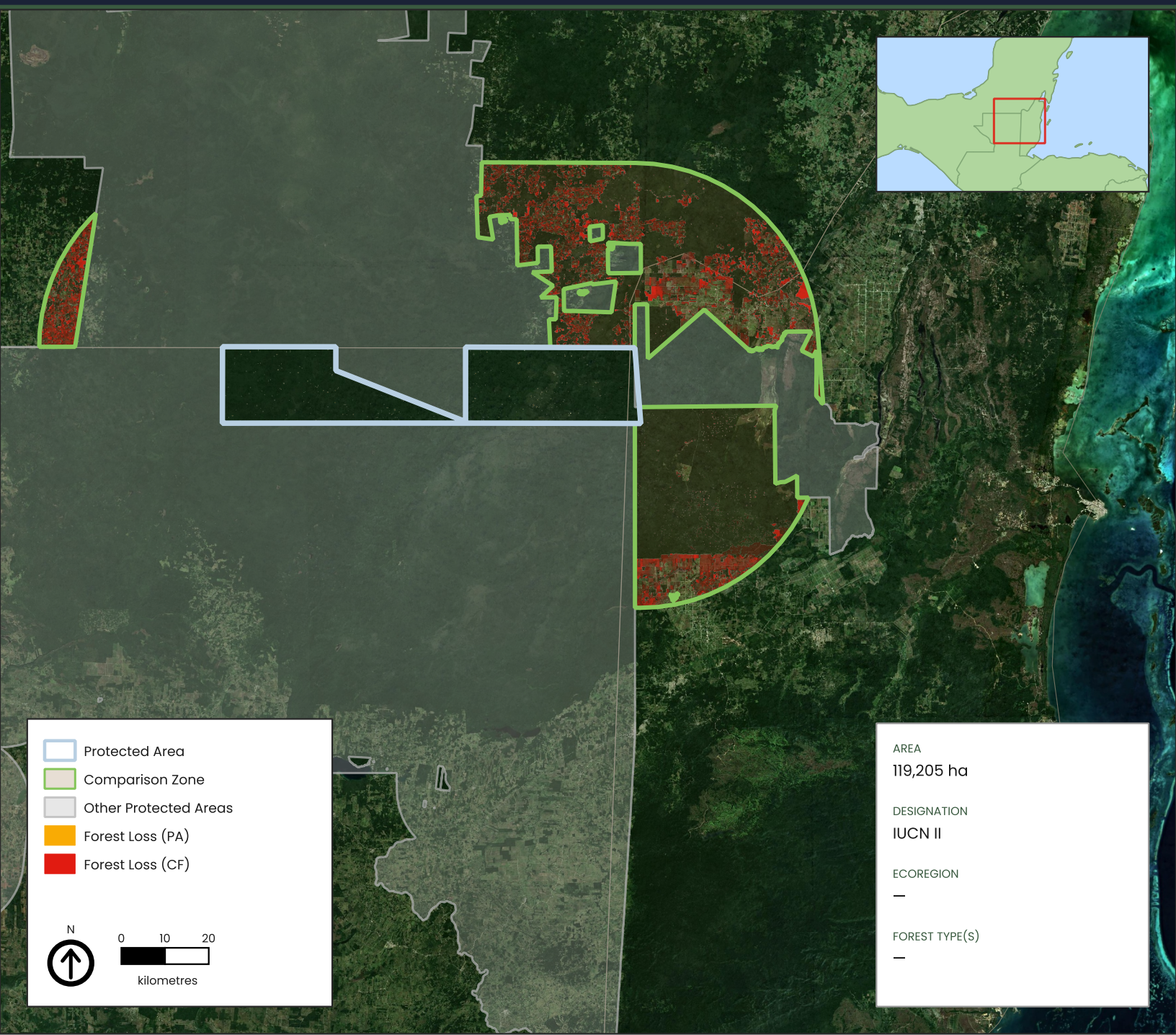
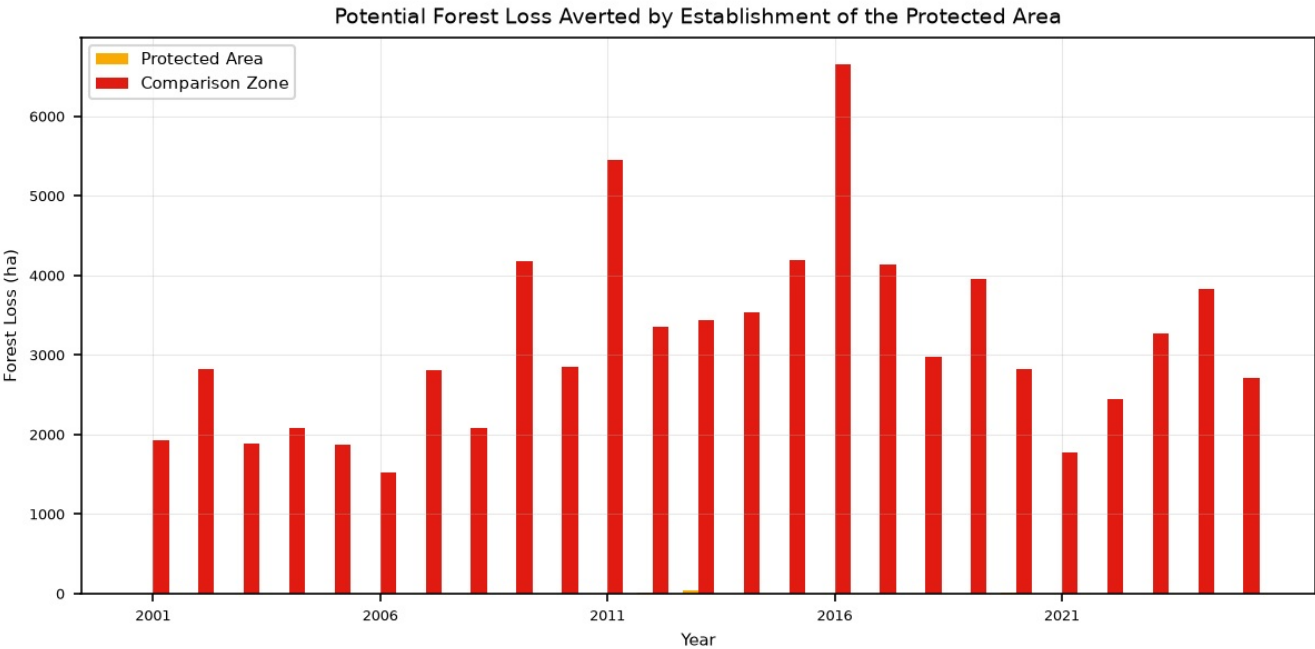


Image of protected area and/or unique wildlife

Overview of site (≈200 words)

Mirador – Río Azul lies in Guatemala, covering 119,205 hectares and designated IUCN II. The surrounding comparison area — a 40 km terrestrial buffer excluding other protected areas — spans 3,489 km².



Interpretation of Results (≈200 words)

Over the 2001–2025 study period, Mirador – Río Azul lost 51.4% of its forest cover on a normalized mean-loss-year basis, compared to 55.9% for the 40 km comparison zone, yielding a treatment effect of roughly 4.5% increased loss inside the protected area (equal to approximately 1.1 years of forest life lost). A canopy-height similarity of 87.5% indicates the comparison area is structurally well-matched to the protected forest.

Key Results

Protected Area Loss	51.4%
Comparison Zone Loss	55.9%
Treatment Effect	4.5%
Canopy Similarity	87.5%
Years Saved (est.)	1.1

Conclusion (≈100 words)

Protection status in Mirador – Río Azul appears to have been ineffective at limiting deforestation within site boundaries. The protected area experienced 51.4% forest loss compared to 55.9% in the comparison area over the 2001–2025 study period.

Data Sources / Credits

- WDPA: World Database on Protected Areas — PA boundaries
- GFW/UMD: Hansen Global Forest Change v1.13 — tree cover loss (30 m)
- NASA FIRMS: MODIS TERRA/AQUA fire detections
- GSHHG v2.3.7: coastline mask for terrestrial clipping
- Natural Earth: basemap for geographic context