

Guanacaste, CRI

Forest Loss 2001–2025

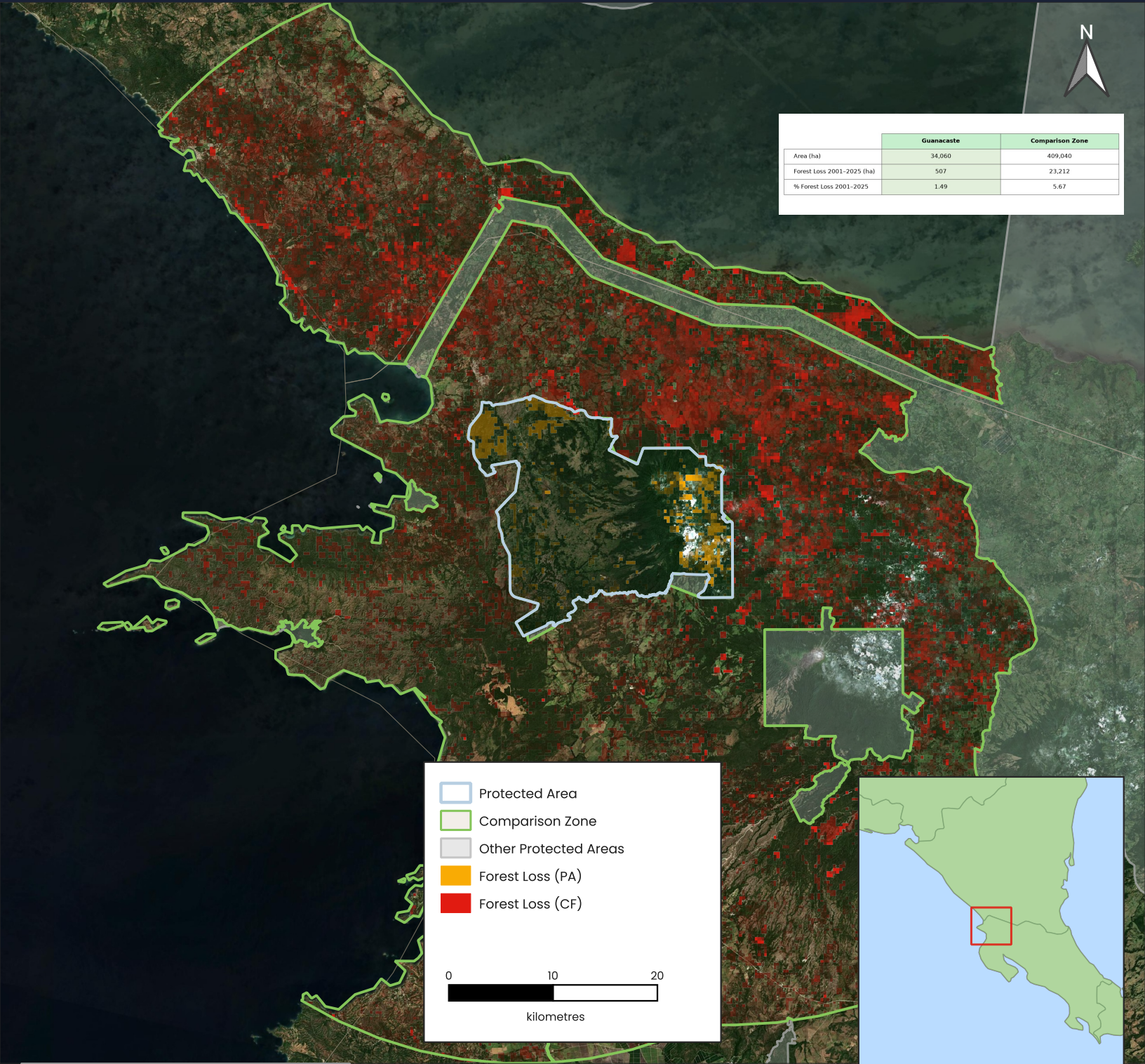
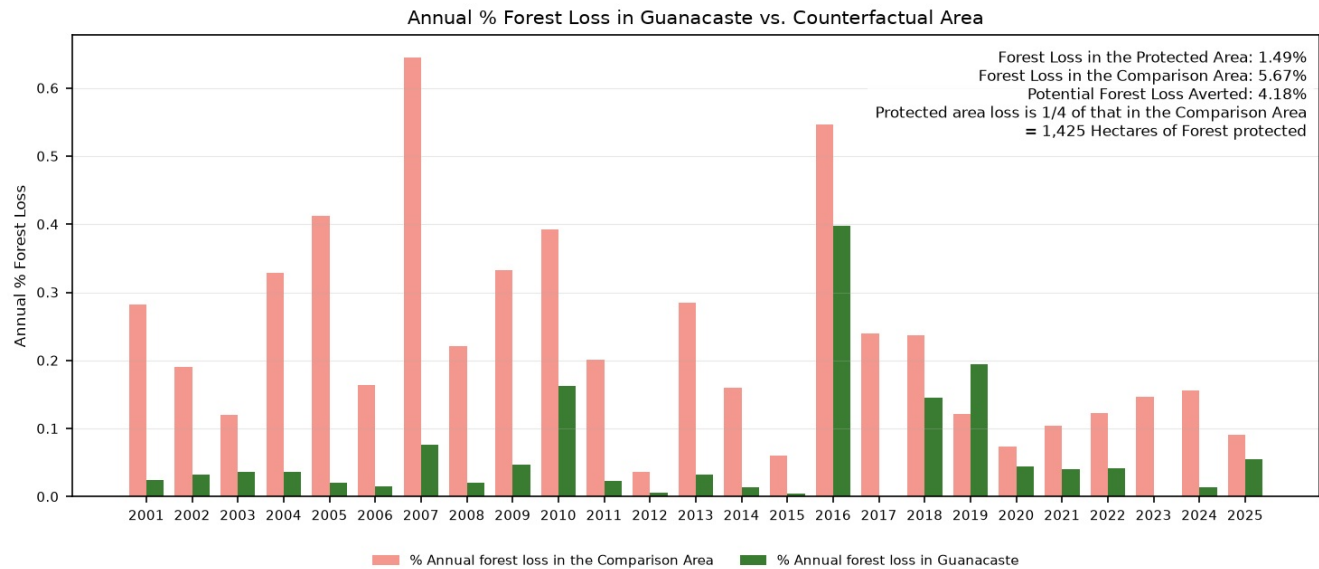


Image of protected area and/or unique wildlife



Conclusion: Guanacaste is successfully protecting its forests — 1,425 hectares of forest protected, assuming similar land use pressures.

Interpretation of Results (≈200 words)

Over the 2001–2025 study period, Guanacaste lost 55.1% of its forest cover on a normalized mean-loss-year basis, compared to 46.2% for the 40 km comparison zone, yielding a treatment effect of roughly 8.9% reduced loss inside the protected area (equal to approximately 2.2 years of forest life saved). A canopy-height similarity of 85.3% indicates the comparison area is structurally well-matched to the protected forest.

Key Results

Protected Area Loss	55.1%
Comparison Zone Loss	46.2%
Treatment Effect	8.9%
Canopy Similarity	85.3%
Years Saved (est.)	2.2

Conclusion (≈100 words)

Protection status in Guanacaste appears to have been largely effective at limiting deforestation within site boundaries. The protected area experienced 55.1% forest loss compared to 46.2% 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