



National Aeronautics and
Space Administration



ARSET

Applied Remote Sensing Training

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Carbon Stock Corridors

CONSERVATION
INTERNATIONAL



Connectivity, Corridors and Carbon

- How are critical habitat areas connected to each other to allow species movement?
- How can land use activities protect these corridors and also reduce emissions from deforestation and forest degradation?

Avoiding deforestation by preserving carbon stored in vegetation between protected areas provides an opportunity to mitigate the effects of land use and climate change on biodiversity by maintaining habitat connectivity across landscapes

Vegetation Carbon Stock Corridors (Woods Hole Research Center)

- Satellite imagery was used to identify areas of high biomass
- Corridors across areas of highest biomass between protected areas were mapped (in white)
- Images on right show the corridors with the highest vegetation carbon stock in
 - a) Central Africa
 - b) West Africa
 - c) Southeast Asia
 - d) the Guiana Shield



Jantz, P., Goetz, S., and Laporte, N. (2014) [Carbon stock corridors to mitigate climate change and promote biodiversity in the tropics](#). *Nature Climate Change* 2, 182–185.

Vegetation Carbon Stock

Interactive Map: whrc.org/publications-data/datasets/vegetation-carbon-stock-corridors

