

A new interpretation of the lowland savanna ecosystem in Belize from SPOT imagery



www.eeo.ed.ac.uk/sea-belize

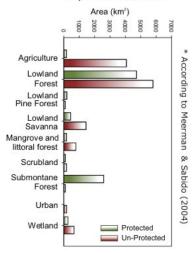
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Why Savannas?

Lowland savannas are rich in **biodiversity**, provide **habitats** for many endangered species and are a significant **carbon store**. However, Belizean savannas are **under threat** from agriculture, shrimp farming and urbanisation.

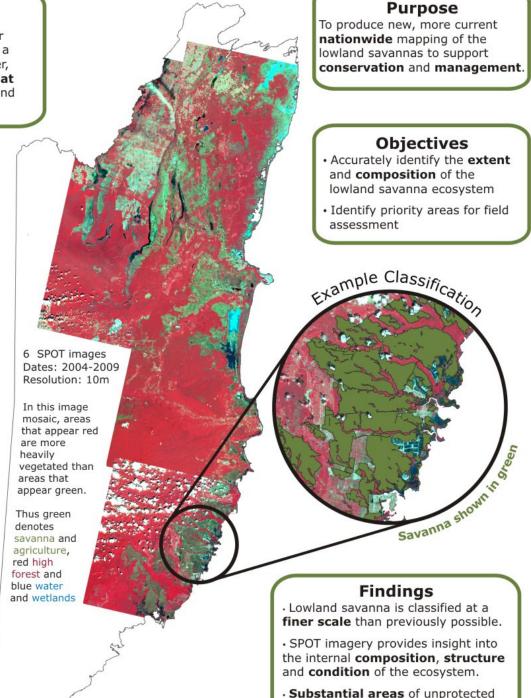
Gap analysis of ecosystems* vs protected areas



This gap analysis shows that the lowland savannas of Belize are poorly protected in comparison to high forest.

Analysis

- Segmentation identifies areas of similarity in each image.
- Savanna classified using a hierarchical, rule-based approach based upon reflectance and image texture.



savanna revealed to be lost to other

uses in the last decade.