MAAP #90: Using Drones to monitor Deforestation and Illegal Logging

Drone types: helipcopter and fixed-wing (plane)

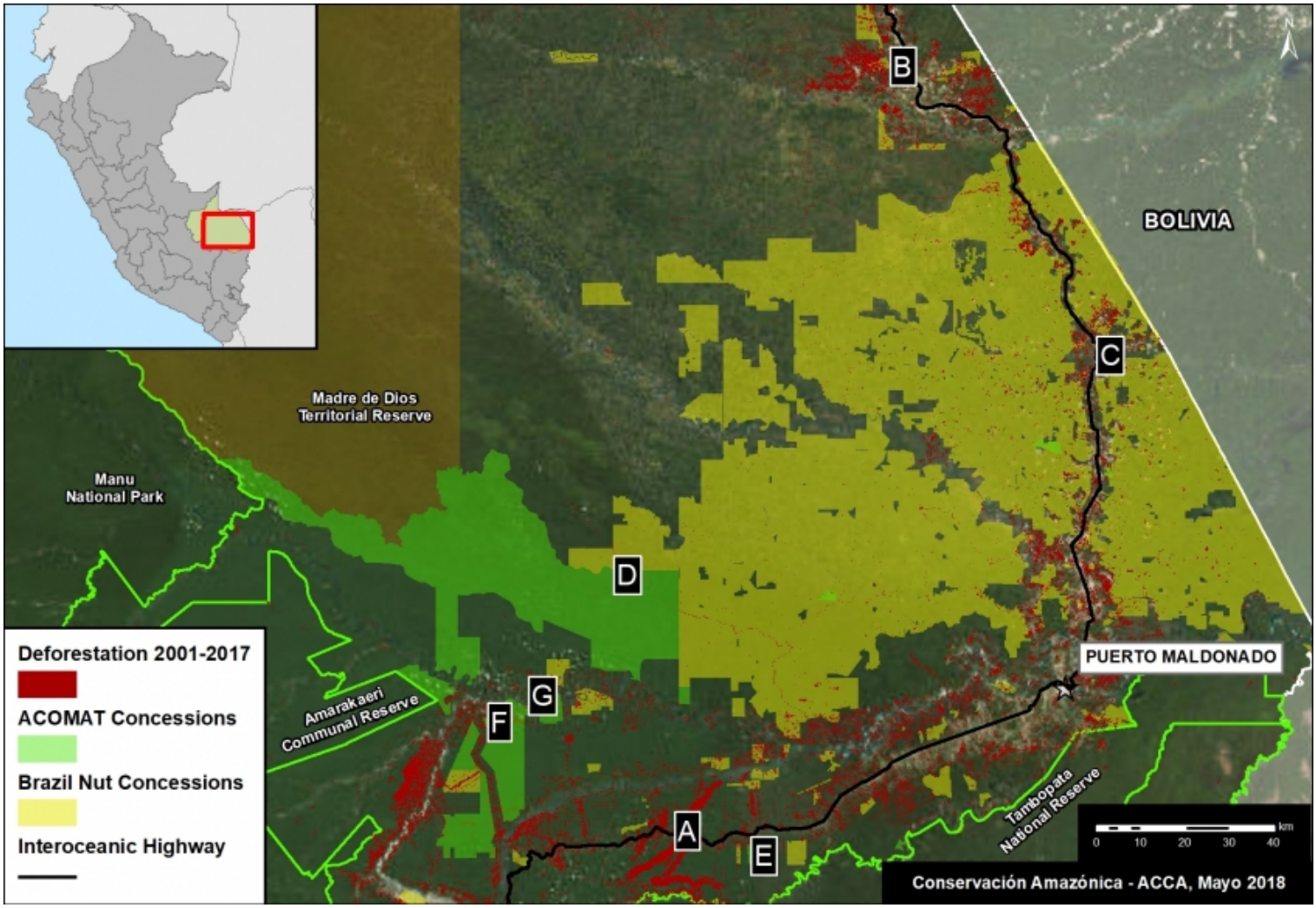
For the past three years, the organization **Amazon Conservation** has been working to establish a sustainable, local-based **drones program** for environmental monitoring in the southern Peruvian Amazon (Madre de Dios region).

This program is based on two types of drones, multi-rotor (helicopter style) and fixed-wing (airplane style).

One of the main objectives is to improve the near real-time monitoring of **deforestation** and illegal logging.

The monitoring is currently focused on **three priority areas**: 1) Brazil nut concessions, 2) forestry concessions of the local association ACOMAT, and 3) along the Interoceanic Highway (see **Base Map**).

Below, we show a series of **drone images** that we have used to identify the drivers of recent deforestation events. These drivers include gold mining, agriculture, illegal logging, cattle pasture, and natural forest loss.



Base Map. Priority areas of the Amazon Conservation drones initiative.

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Interoceanic Highway

In March 2018, in collaboration with the organization ProPurús, we realized drone flights along the Interoceanic Highway in an effort to demonstrate the possible threats of building a new road along the border with Brazil (see MAAP #76). The following images show the two main threats to the area: gold mining and small/medium-scale agriculture (

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