

GFOI workshop on estimation issues

Oslo, June, 2017

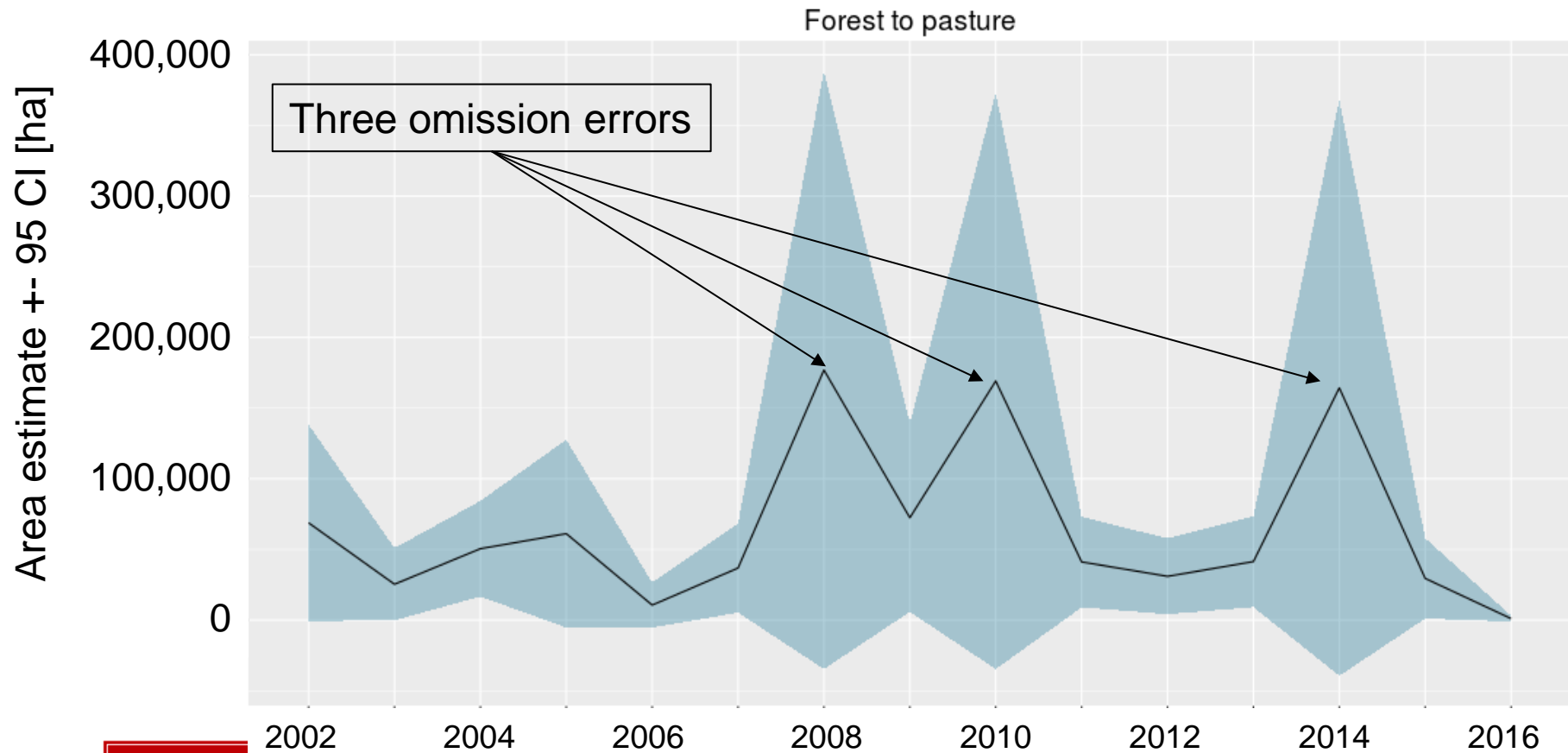
Estimation-related issues identified in SilvaCarbon and NASA CMS/LCLUC activities

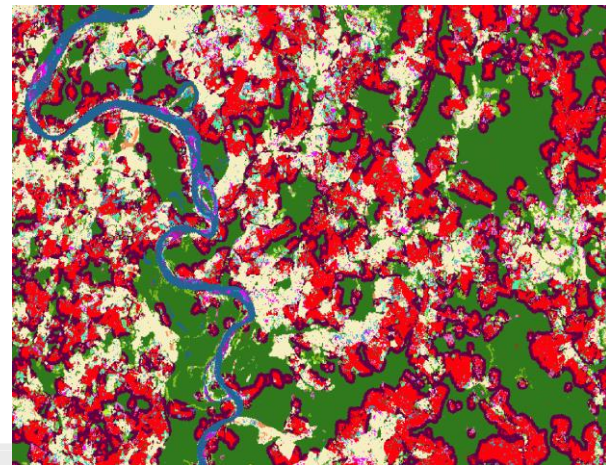
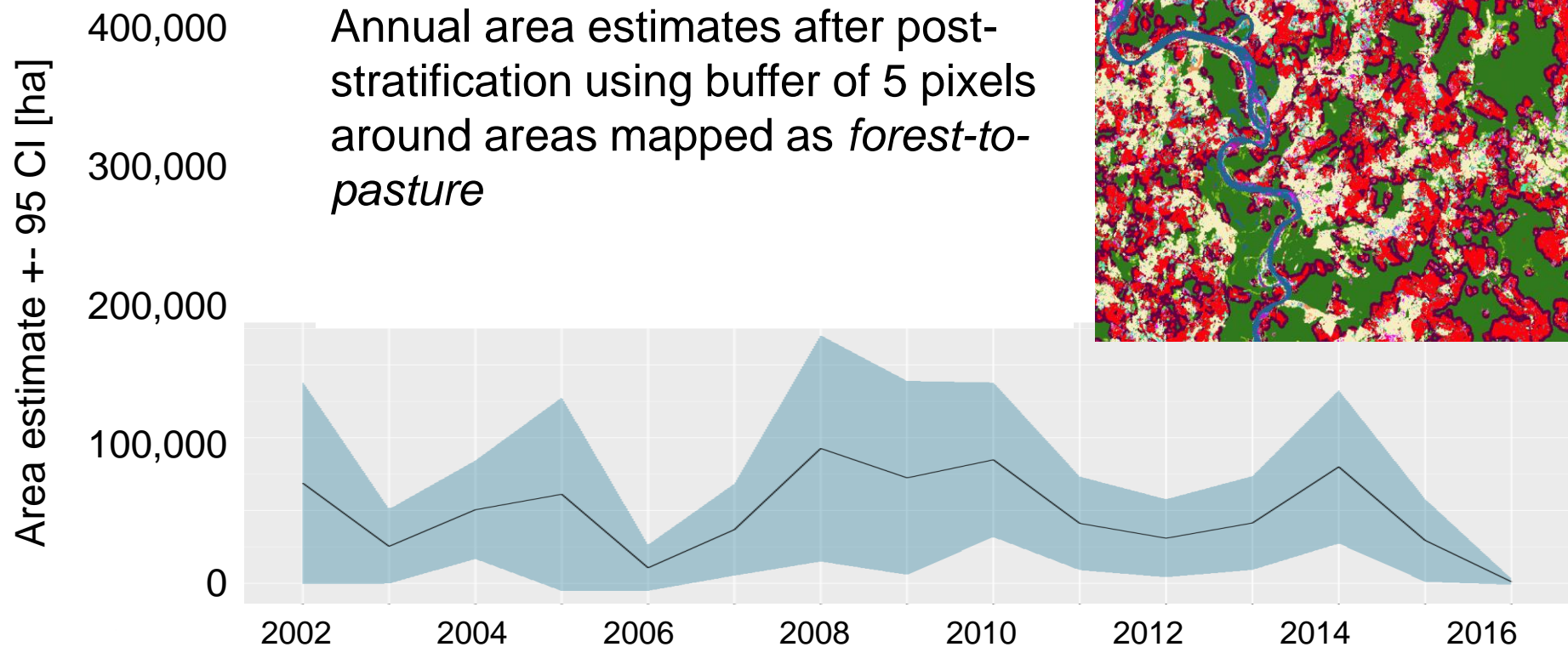
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Issue 1.

Common situation: large forest stratum but areas of interest small => omission errors carry large area weight – how can weights be reduced?



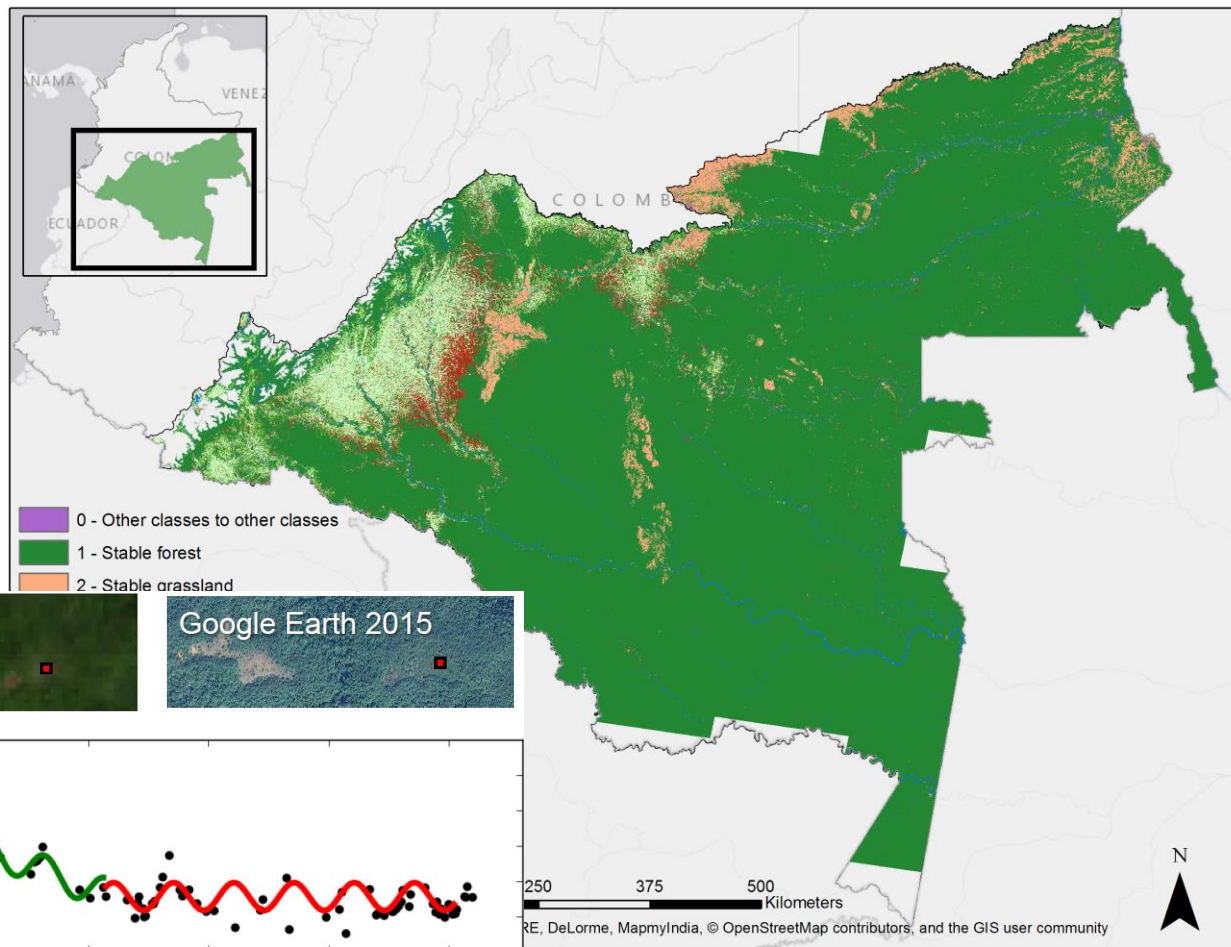


Issue 2.

Time series analysis allows for continuous mapping – how to reconcile this with sampling?

Colombian Amazon, IPCC land category conversions 2000-2016

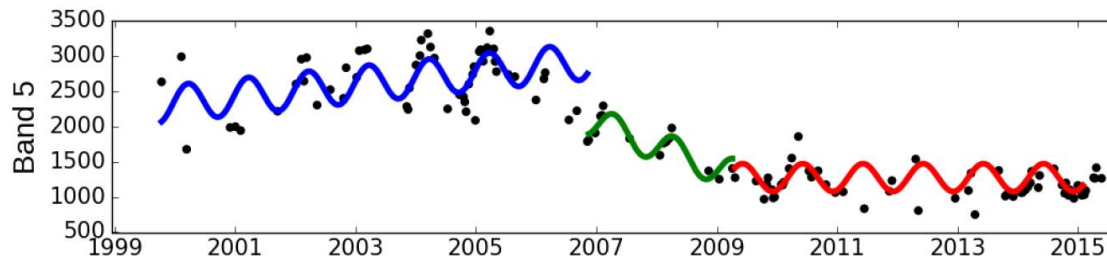
Map can be produced for
any time, or change map for
any time interval



Landsat 2002

Landsat 2015

Google Earth 2015



250 375 500
Kilometers

RE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

Issue 3.

Tier 3 reporting; carbon emissions and removals associated with pixel level land change – how to relate estimates of population parameters to pixel level?

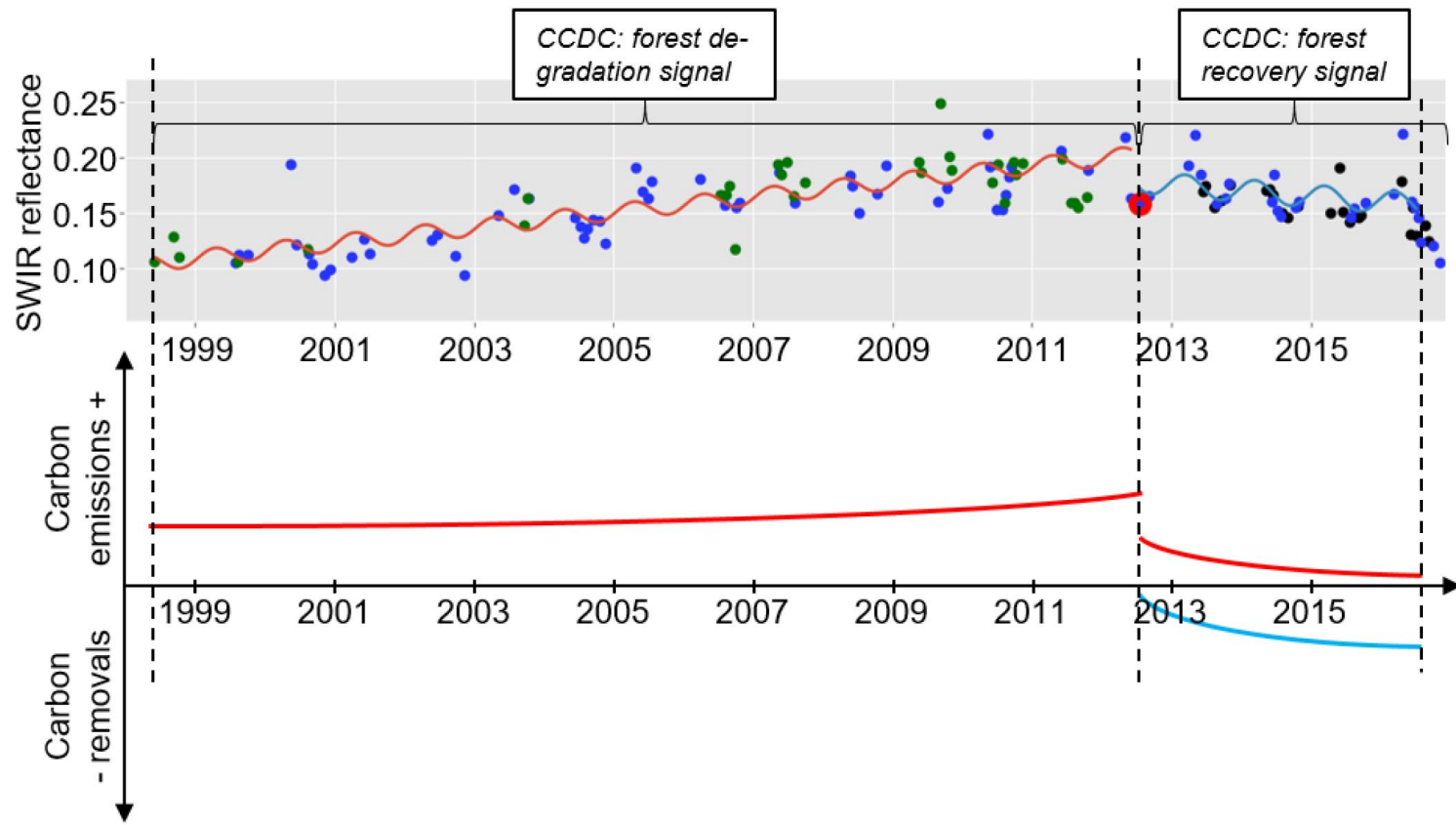


Figure 3. Illustration of the application of carbon bookkeeping model to the pixel in Figure 1. The upper plot is the same as Figure 1C; the lower plots shows the carbon responses triggered by the detected forest degradation and recovery events. The plus sign represents emissions of carbon to the atmosphere, and minus represents carbon removal from the atmosphere.