SERVIR's Ensemble Approach to Estimating Carbon Emissions: SERVIR CArbon Pilot (S-CAP)
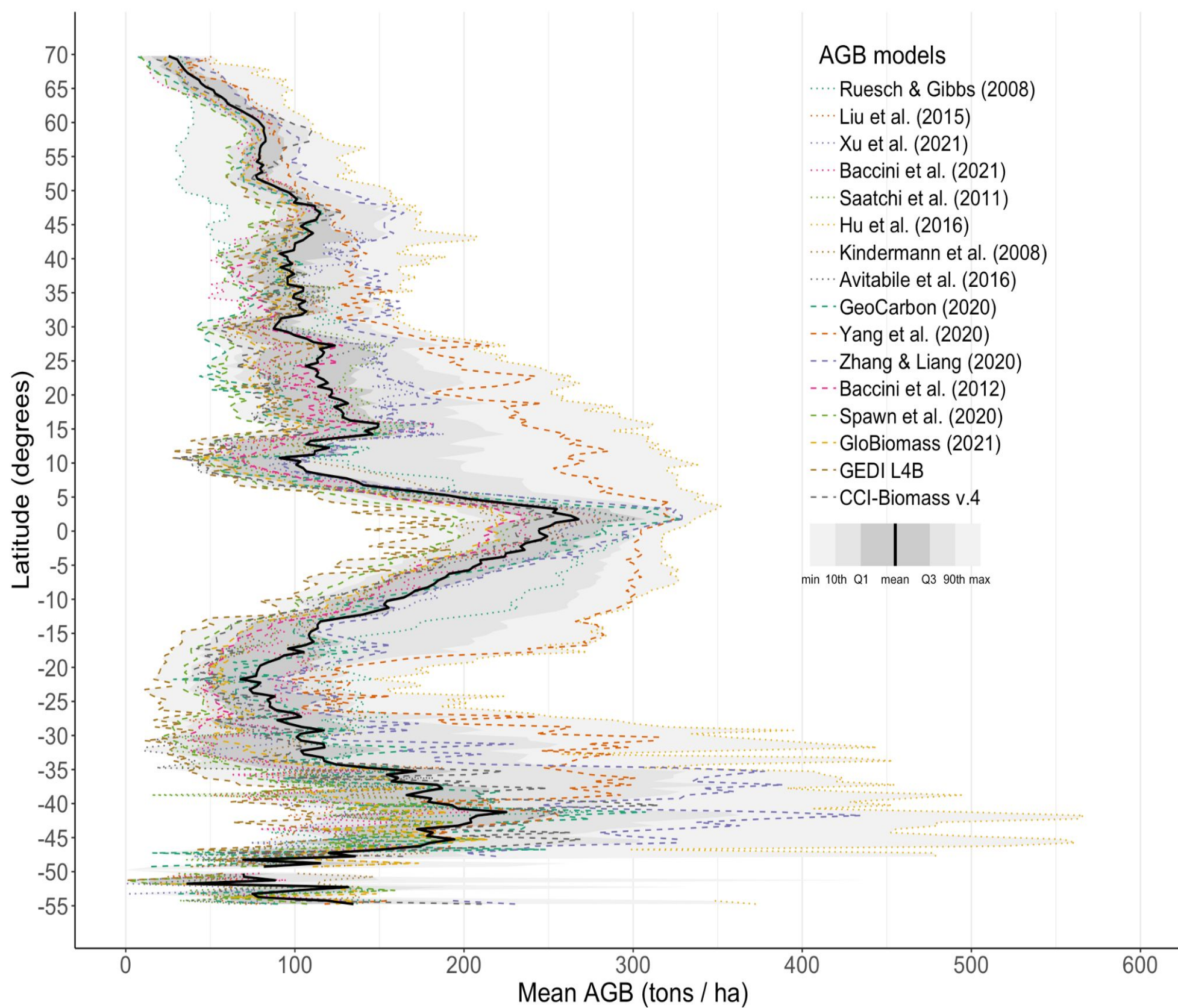
The SERVIR-CArbon Pilot (S-CAP) aims to provide an accessible, easy-to-use carbon monitoring platform that will help national governments and regional and local organizations estimate emissions for commitments like REDD+ and other international agreements.
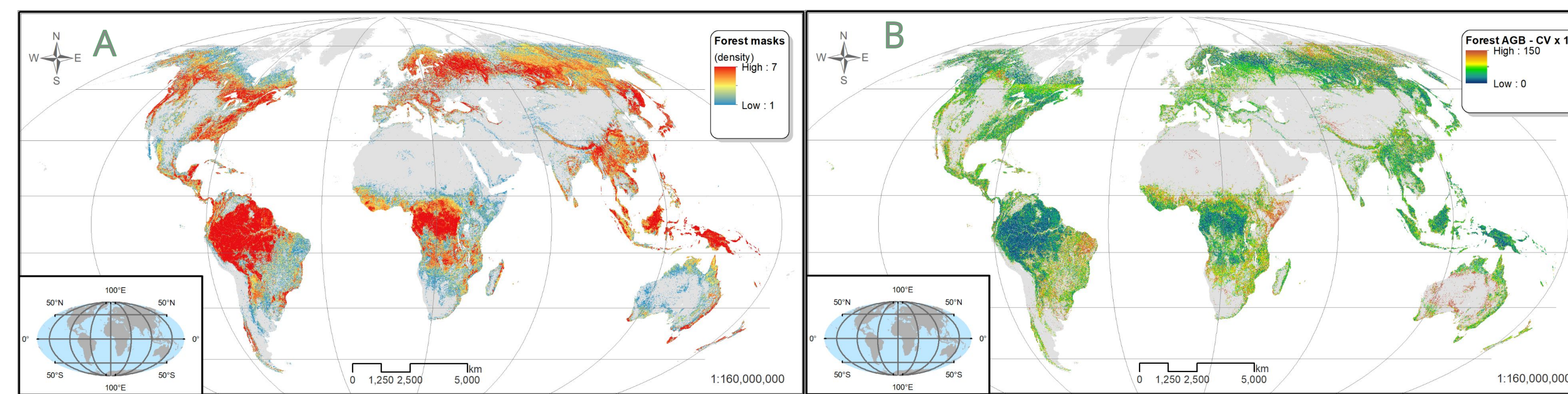
Key Partnerships & Collaborations

- Science Coordination Office
- SERVIR hubs
- Ecosystem & Carbon Management ASTs
- Technical Assessment Group
- SilvaCarbon

Latitudinal averages of forest above-ground biomass (AGB) as estimated by several different models used by S-CAP, demonstrating variance from the mean across latitudes.

S-CAP capacity building activities with the partners in SERVIR CA (Belmopan, Belize)

[A] Forest 2020 coverage agreement amongst seven land cover sources. [B] Coefficient of Variation of the forest AGB, for c. 2020, based on data from 3 sources. Both graphics highlight the variability amongst both forest cover datasets and above ground biomass, to of the main inputs for estimating forest carbon stocks and greenhouse gas emissions .

Outcomes & Impacts:

- **224+ participants** reached during **8 capacity building workshops** held in SERVIR hub regions
- Beta-launch of S-CAP web platform; undergoing testing within SCO.
- Capacity to estimate and visualize up to **168 combinations** of emissions through the ensemble approach; **totalling 2,108 estimates across the 15 pilot countries**
- **2 publications** submitted highlighting the divergence between datasets at the global, regional, and national scale.
- **USAID Indicators: 11-5, 12-6, 13-1, 13-6**

Next Steps:

1. Official launch of S-CAP web platform with adoption from Hubs for GHG tracking & reporting
2. Integration into Hub and AST led services (i.e. RLCMS SEA, RLCMS HKH)
3. Contribution to broader GHG monitoring initiatives, namely through its coordination with the U.S. Greenhouse Gas (GHG) Monitoring Center, which leverages IMPACT's VEDA platform for its data and information system.

Review & synthesis

Web Platform