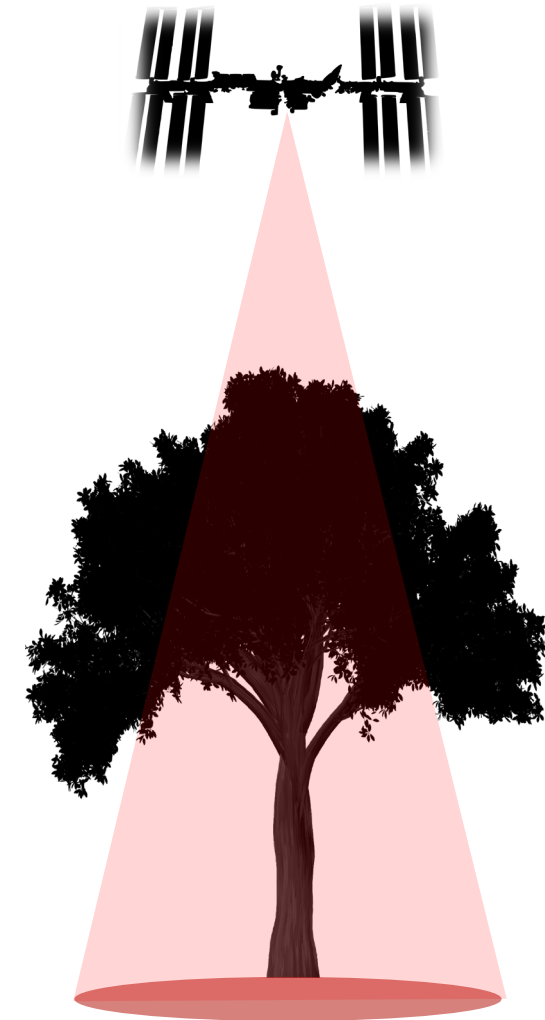
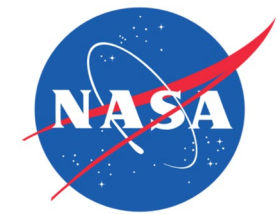


Introduction to the GEDI Mission



Laura Duncanson, University of Maryland

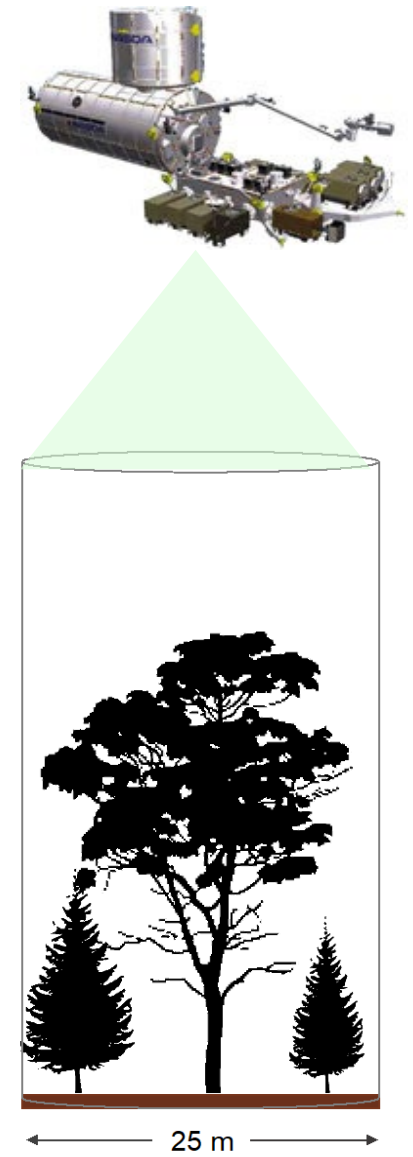
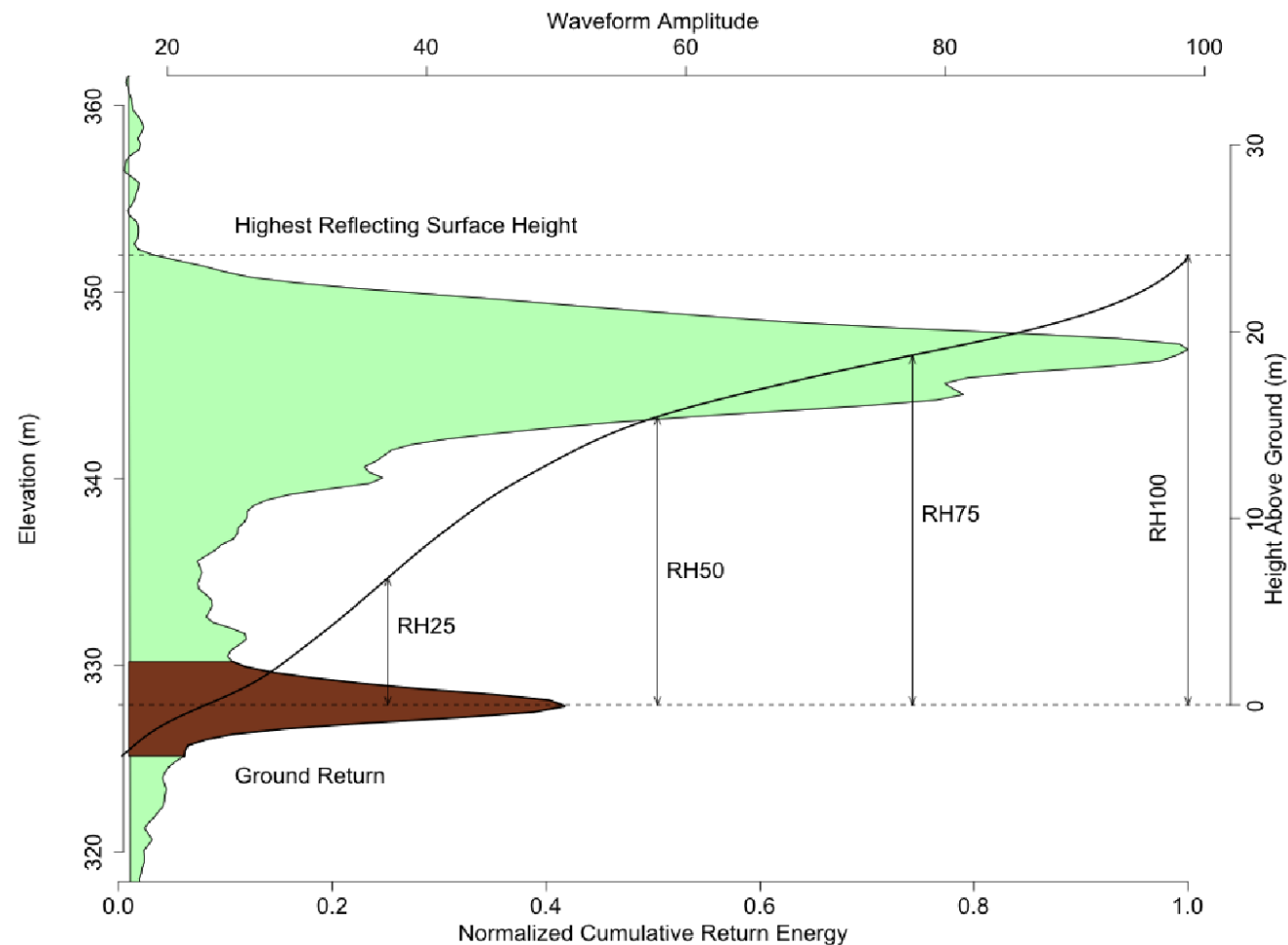
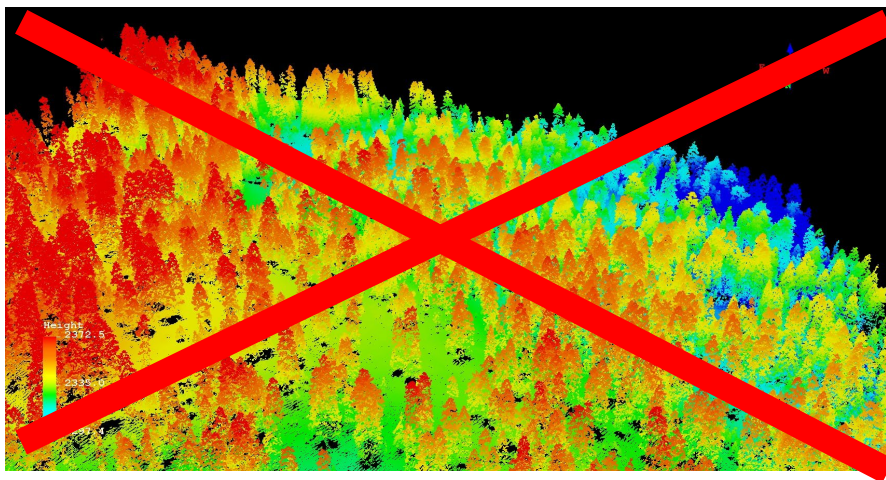
With contributions from:
The GEDI Science Team



Global Ecosystem Dynamics Investigation

GED I is the first spaceborne lidar designed specifically to study forests

- Successful launch December 5, 2018
- Started science data collection April, 2019
- L1 & L2 products online
- ~10 billion cloud-free waveform observations of Earth's land surface are expected





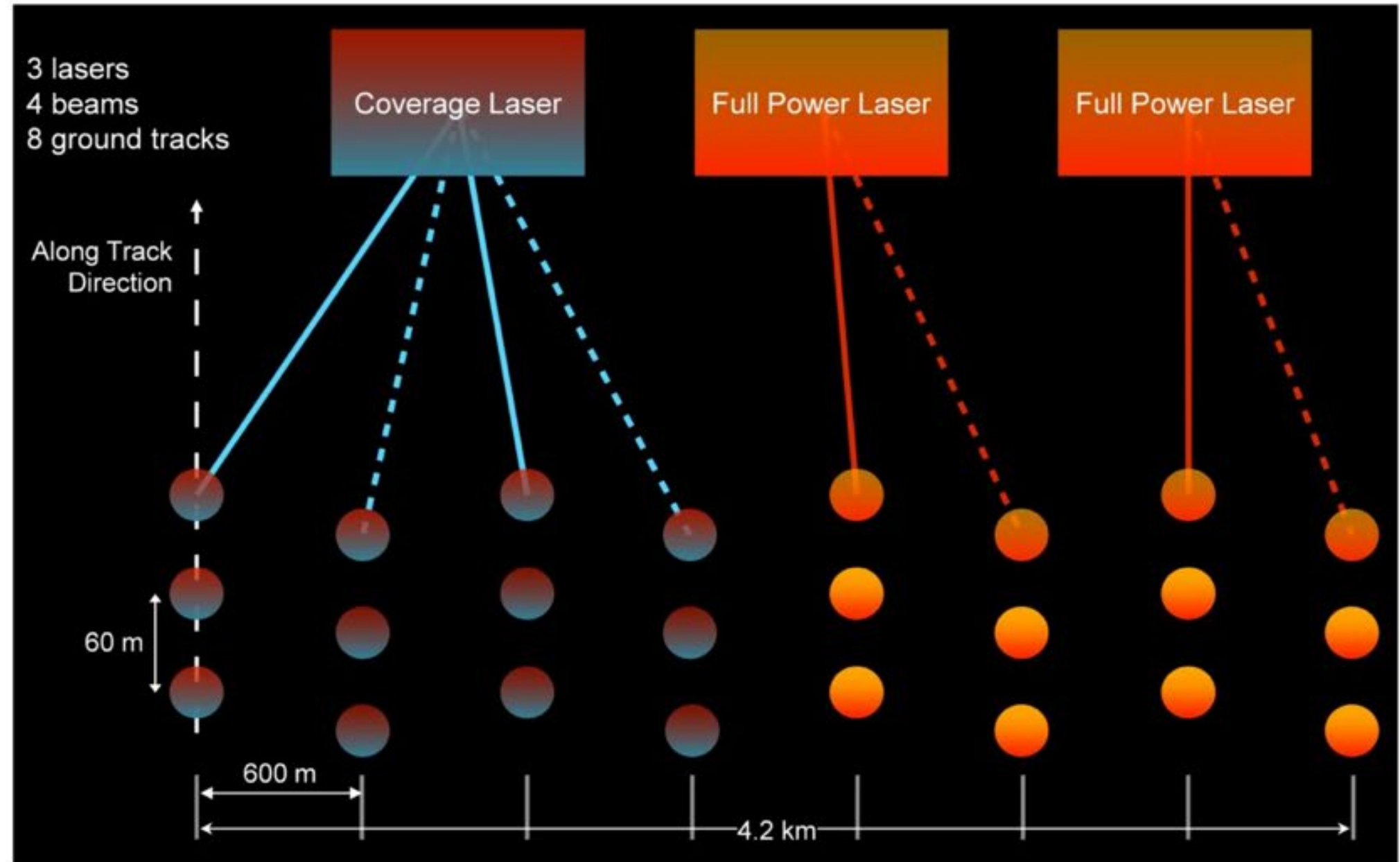
GEDI Beam Pattern

- **3 Lasers, 4 Beams**

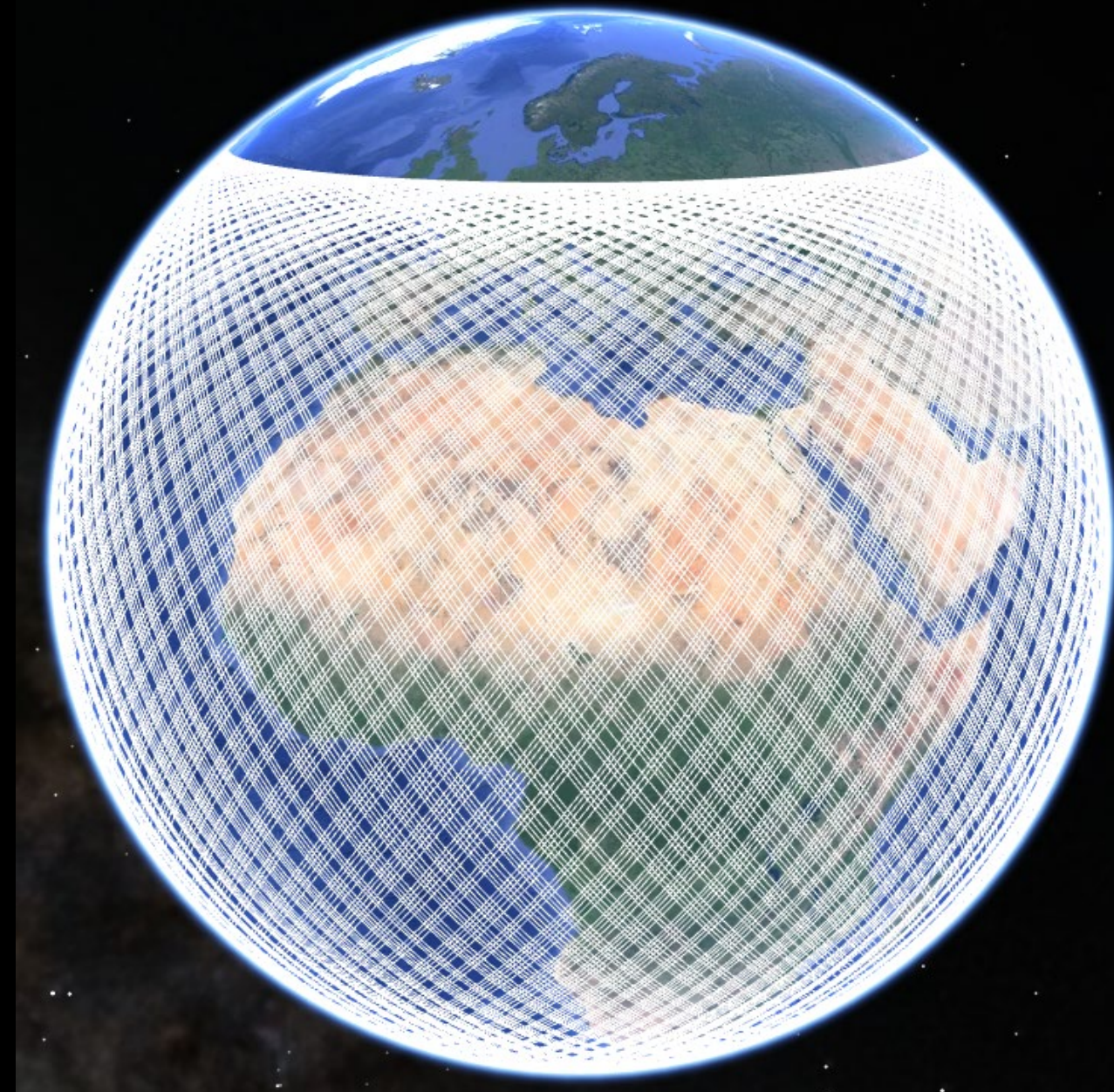
- 2 power
- 1 coverage

- **8 Ground Tracks**

- Originally 14 tracks



GEDI collects data over the tropics and temperate



Credit: NASA's Scientific Visualization Studio

Globally gridded topography

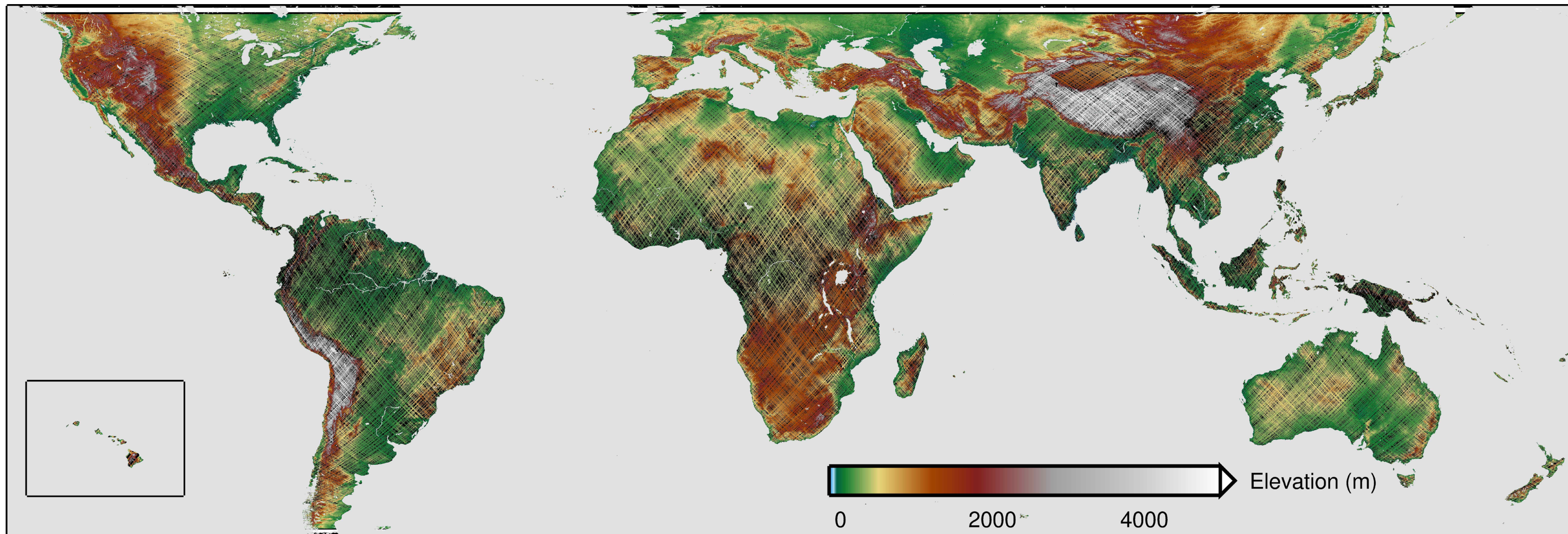
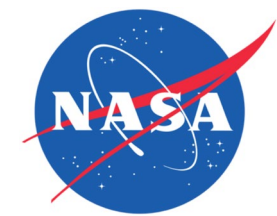


Image credit: John Armston, Michelle Hofton, Ralph Dubayah



Globally gridded canopy height

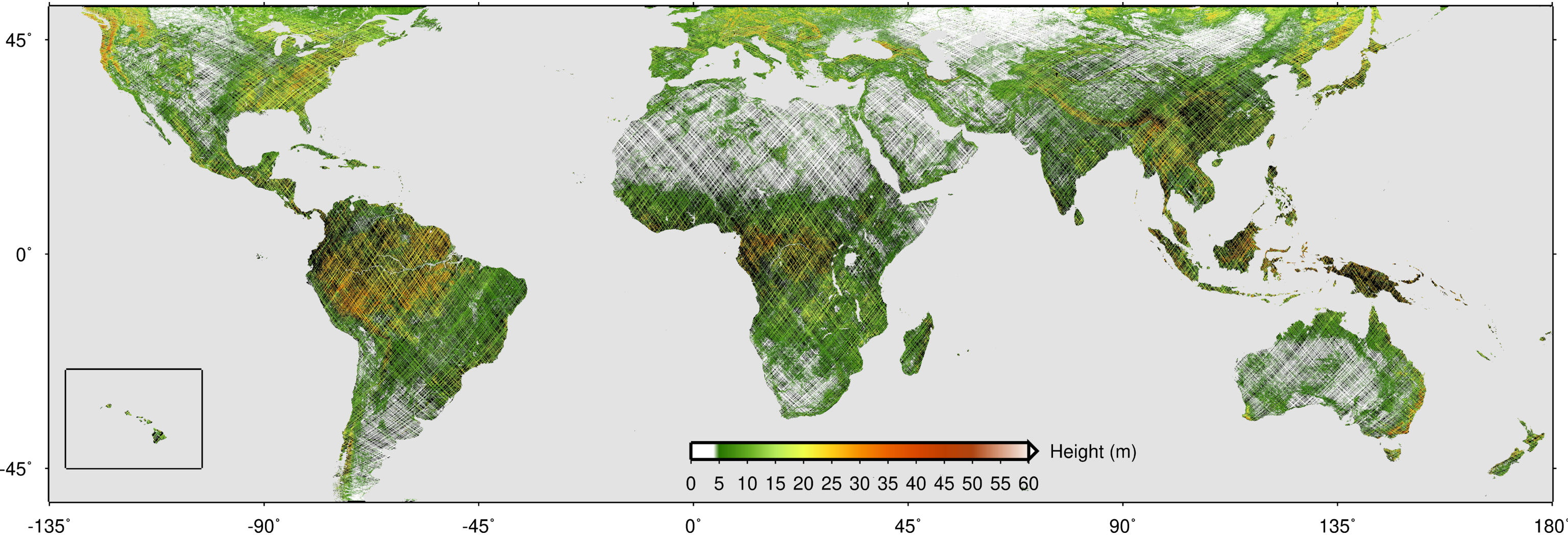
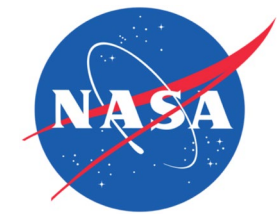
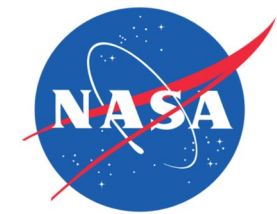
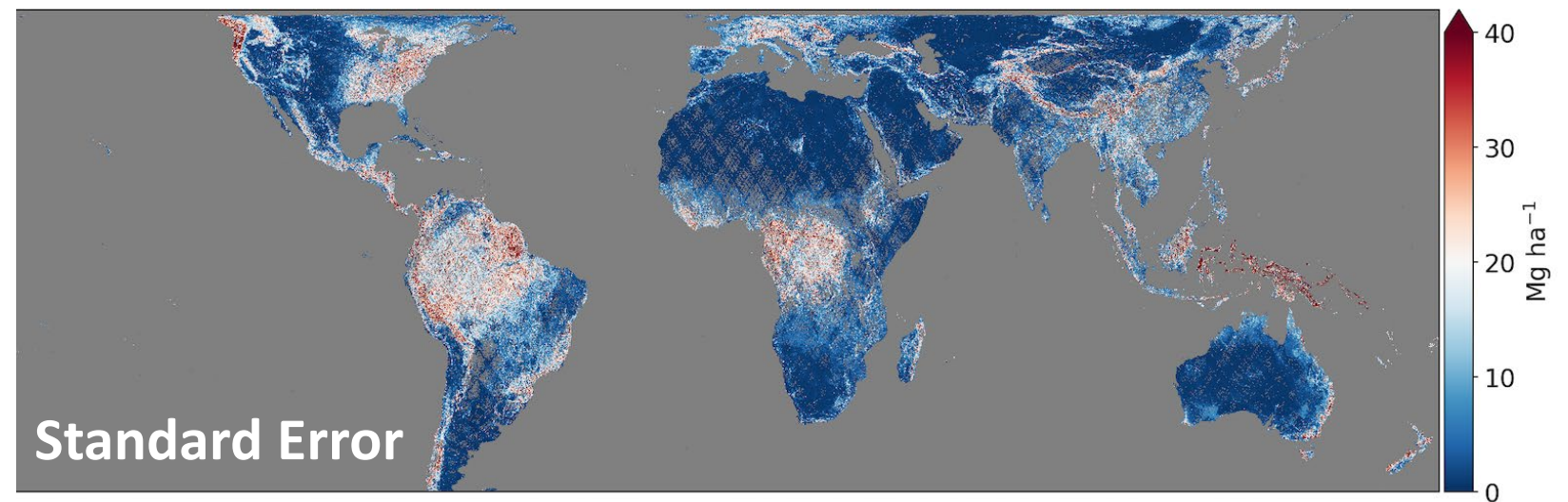
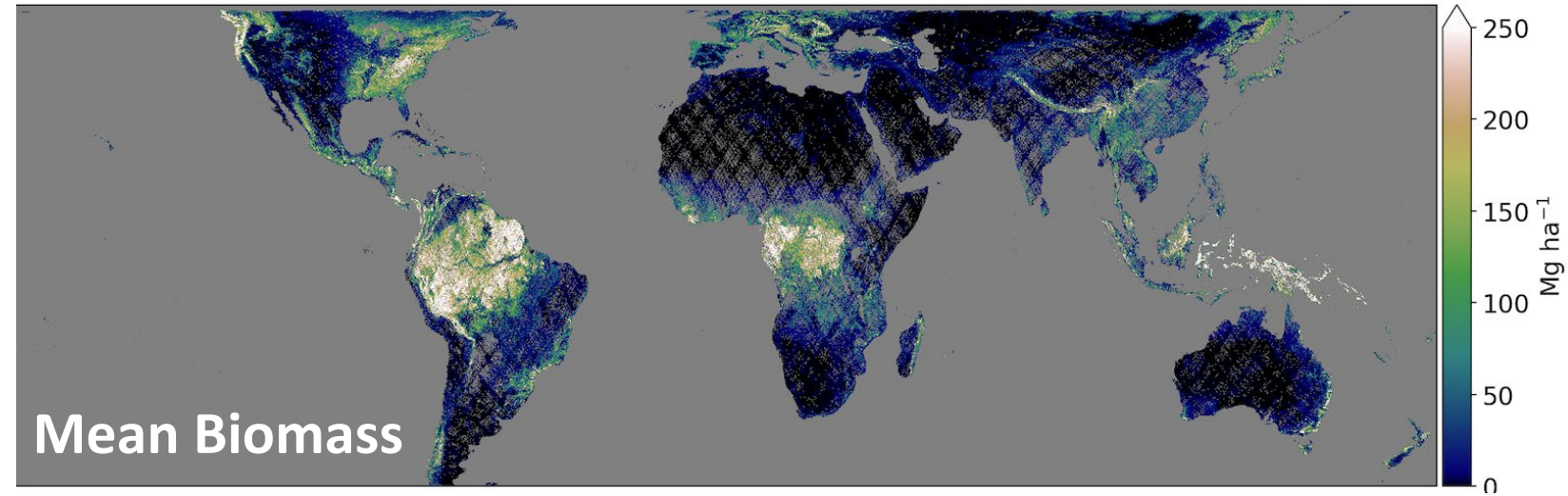
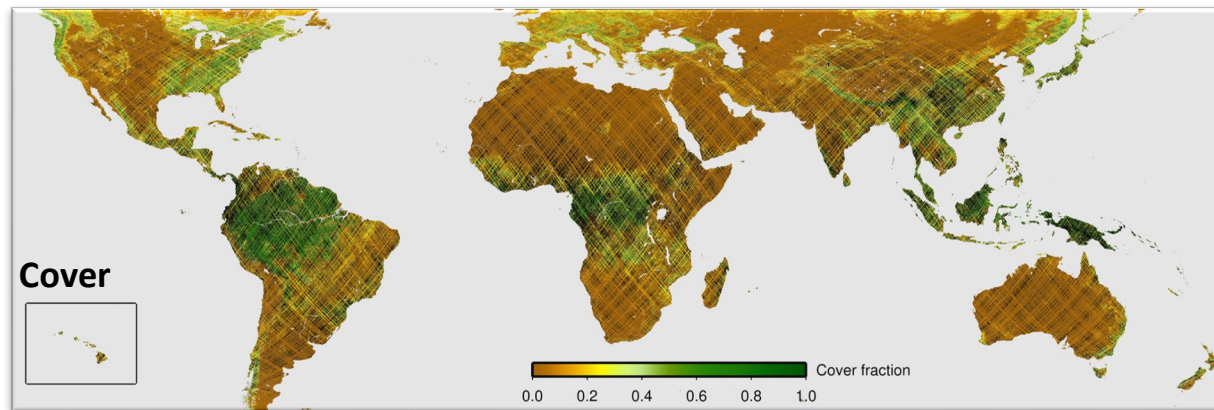
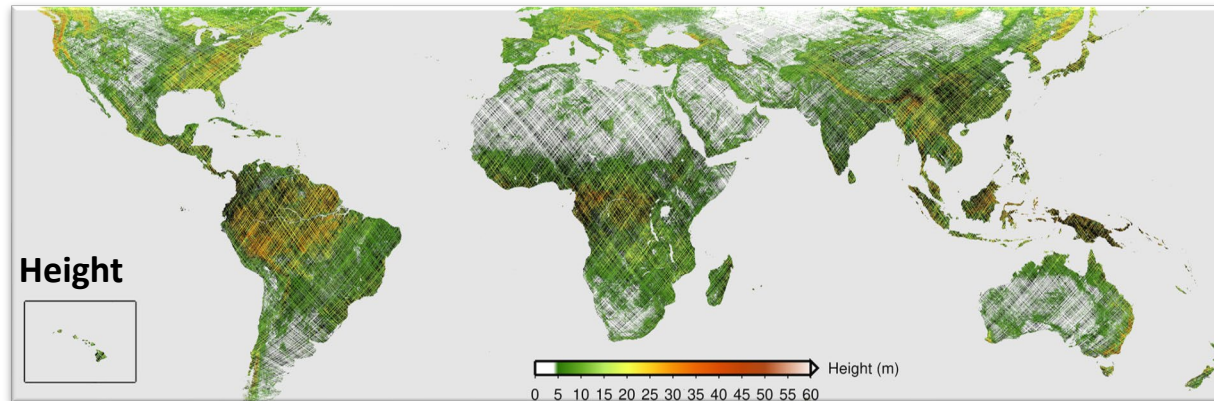
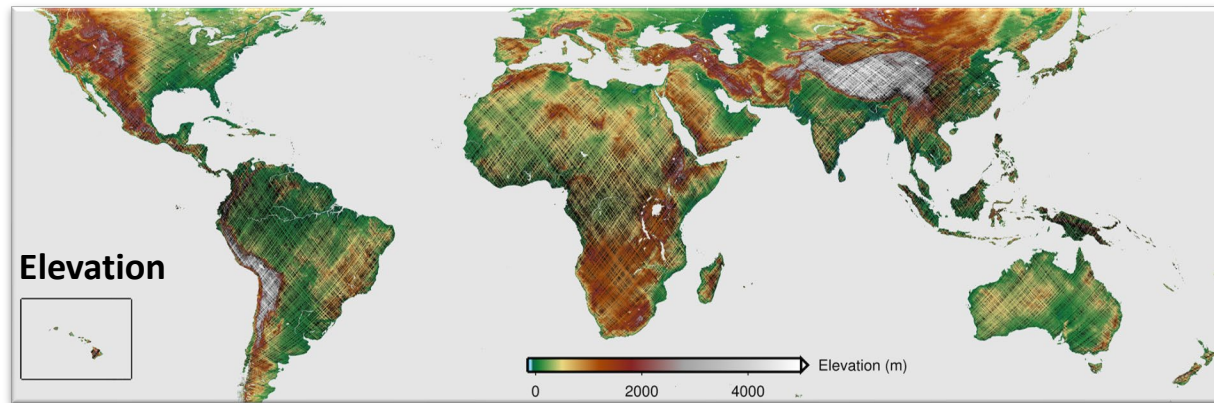


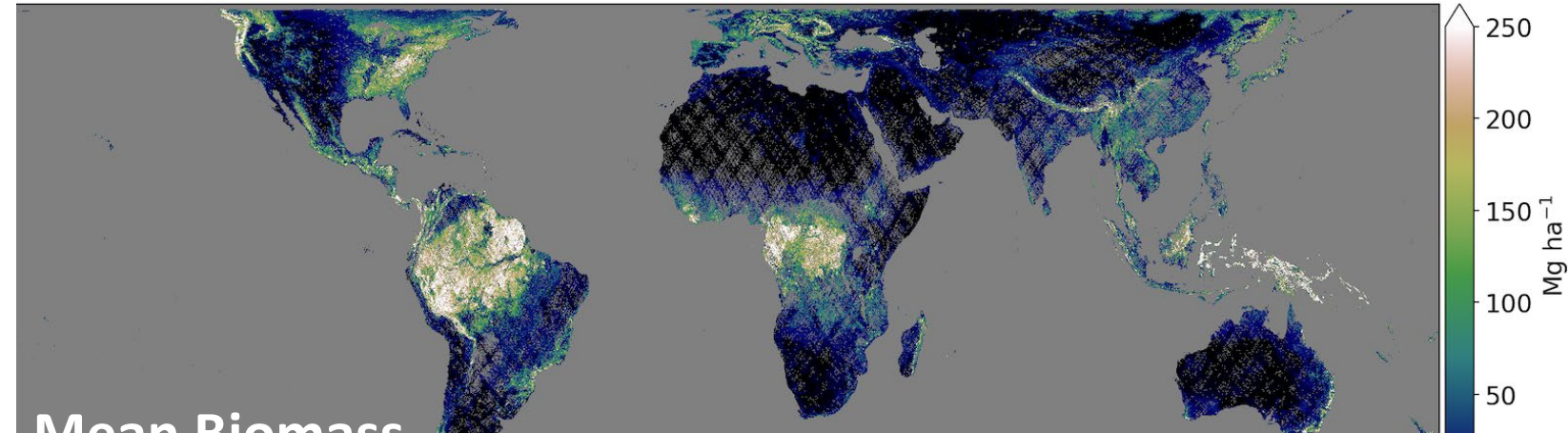
Image credit: John Armston, Michelle Hofton, Ralph Dubayah



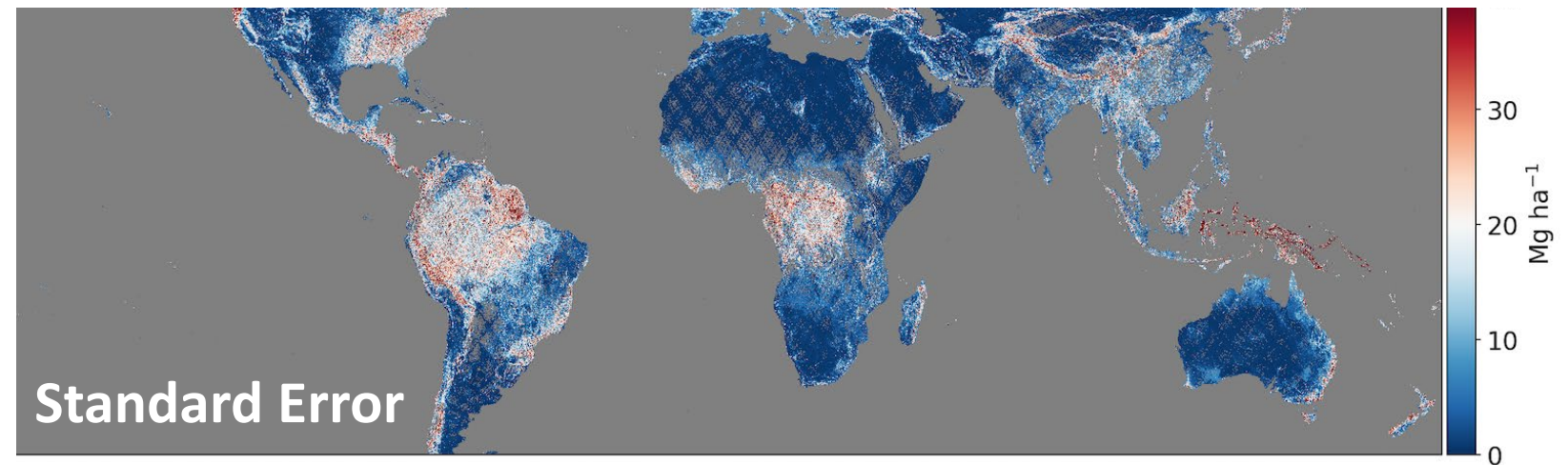
Level 3 and 4 Gridded Data Products



GED1's Gridded Biomass Products are Coming Online

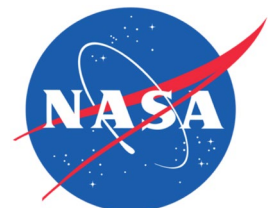


orbit beyond Jan 2023!!!



Credit: NASA's Scientific Visualization Studio

Coming Soon to <https://earthdata.nasa.gov/maap-biomass>



Thank you to all of the GEDI field and lidar data partners!!

lduncans@umd.edu

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