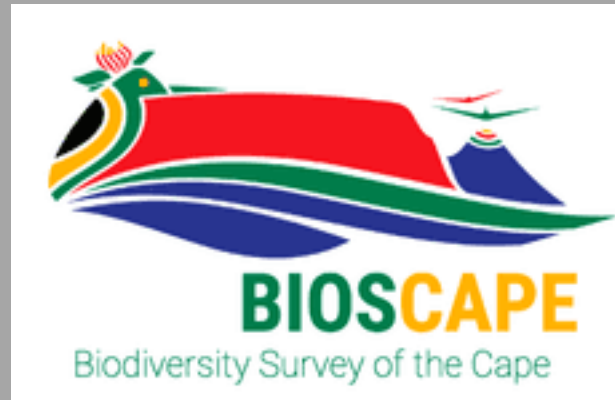


Field campaigns to enable global, frequent ecological observations from space: FILLING LAND AND OCEANKNOWLEDGE GAPS



SBG High
Frequency
Timeseries:
Phenology



Biodiversity Study of the
Cape:
Biodiversity



Airborne Validation Unified Land to
Ocean
*Tropical plant and phytoplankton
traits*

AVUELO

Airborne Validation Unified
Experiment **Land to Ocean**



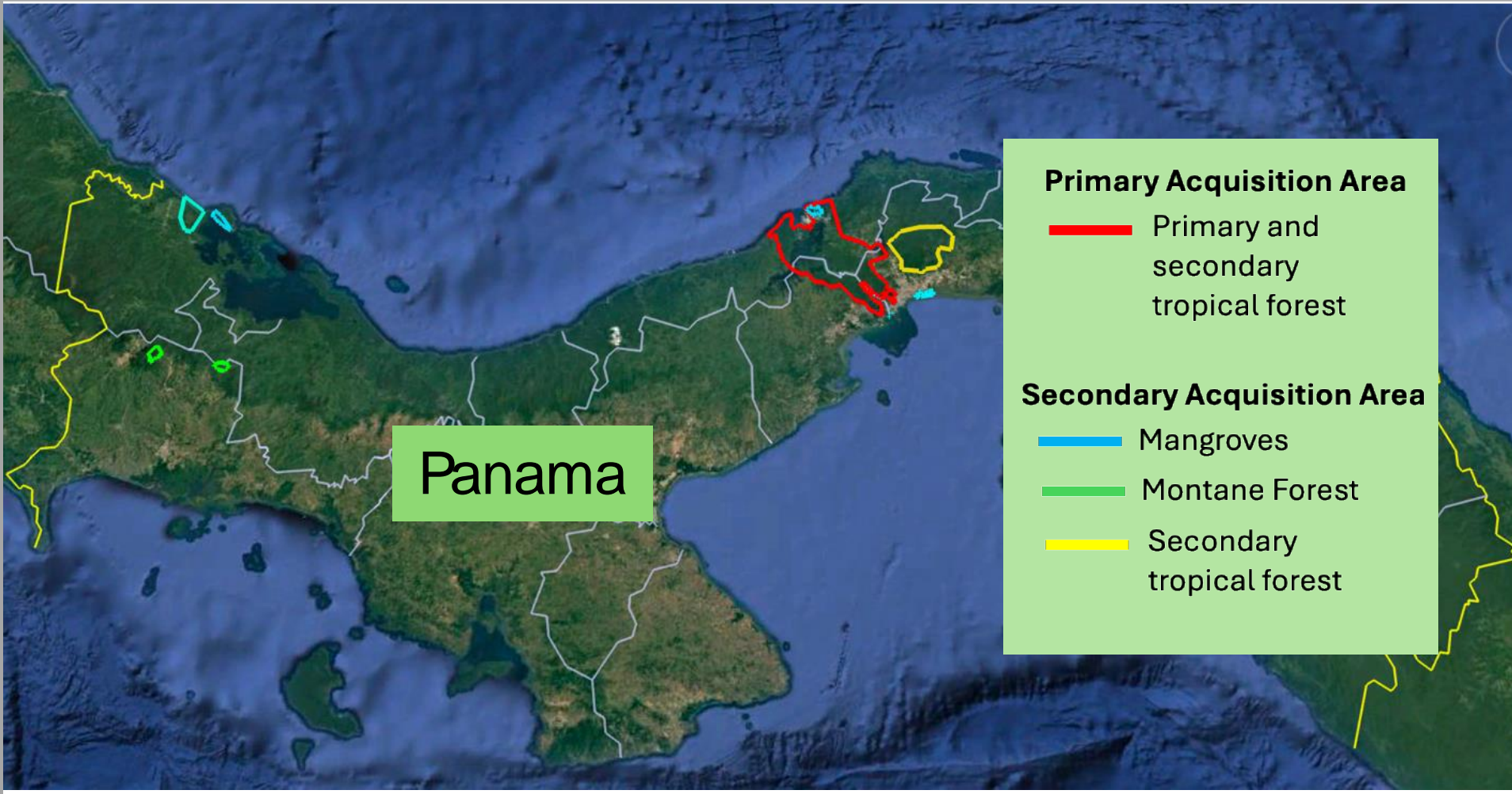
**AVUELO'S HARPY IS THE MAP OF PANAMA
AND COSTA RICA**



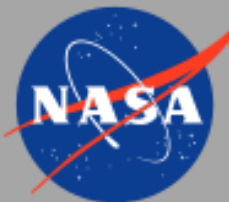
OBJECTIVES

- AVUELO OBJECTIVE: Calibrate vegetation and ocean retrievals in tropical conditions.
- PACE STM Project Objective: Statistically fuse EMIT and PACE to downscale PACE frequent land observations to EMIT spatial resolution to achieve phenological time scale results for ecosystem and agricultural studies.

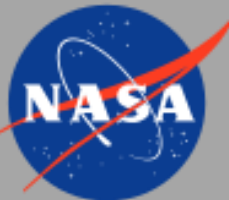
The plan for ecosystem retrieval calibration and validation

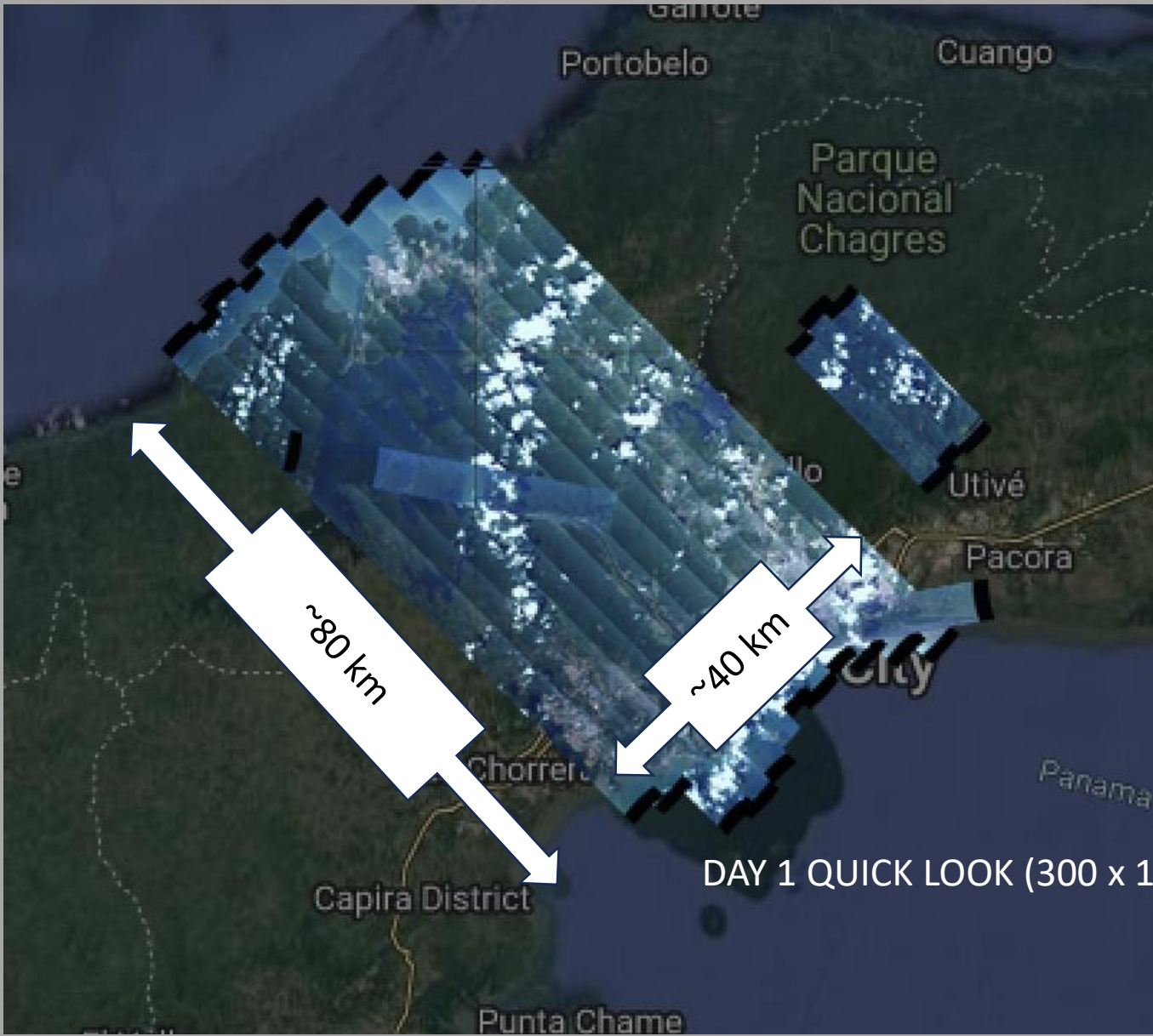


The plan for ecosystem retrieval calibration and validation



Visit to N53W

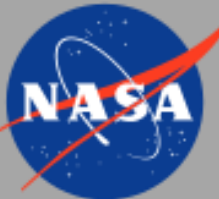




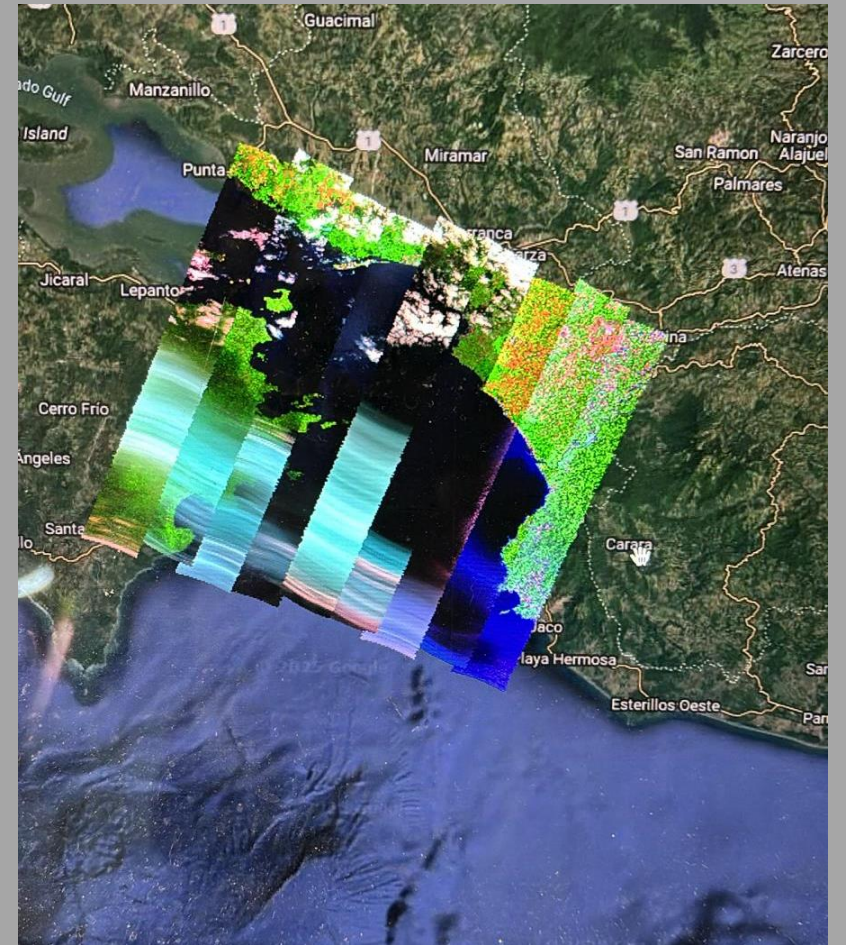
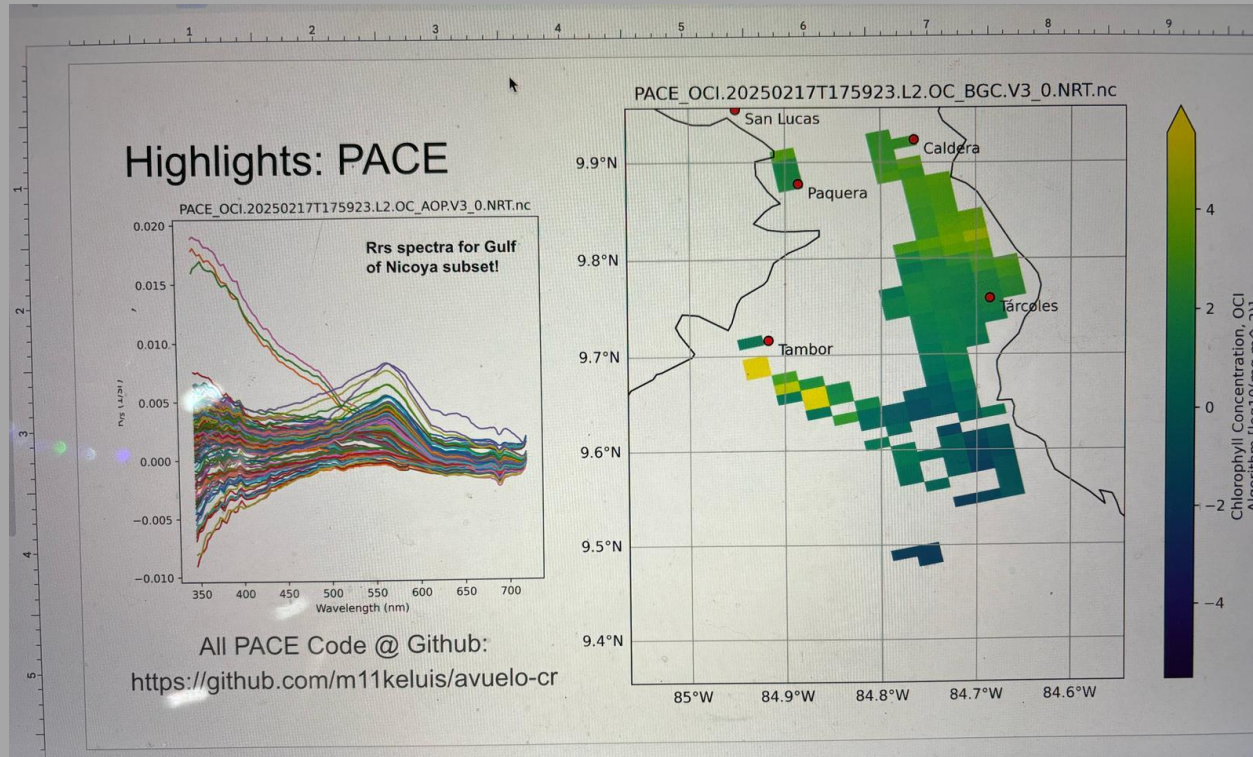
DAY 1 QUICK LOOK (300×10^6 spectra)



© 2025 Flight



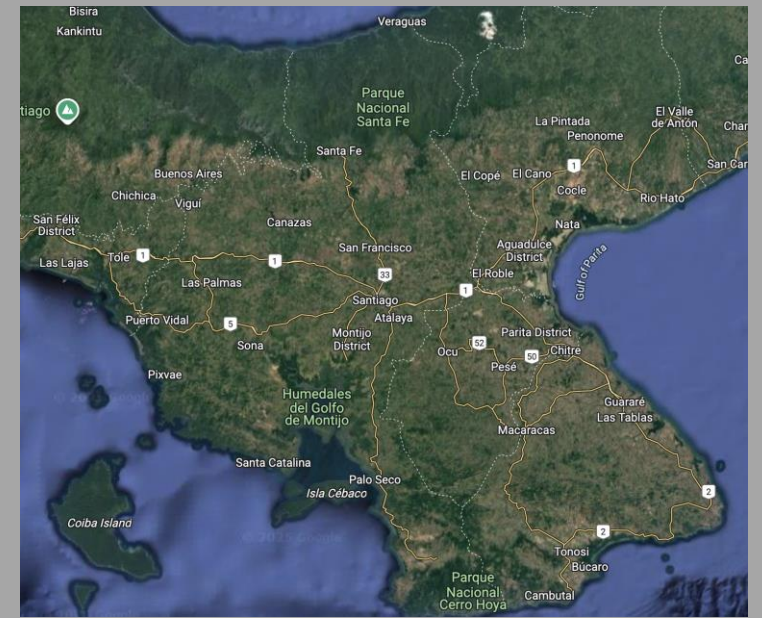
PACE-AVUELO



Day Two: To the Southwest



Coiba, SE tip



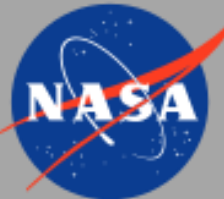
TREES! 1,000 trees is the target



Obtaining canopy samples

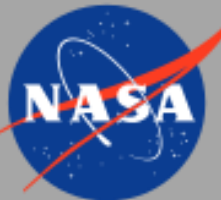


Field Processing





IN THE LAB: Spectra and careful analysis, labelling and storage





LAB SPECTRA

