

Blockers:

- Desktop Assembly

Requirements:

- N/A

Last week:

- **Dataset:**
 - 1st Pass Saliency Test
 - Building dataset pipeline in a batch processing maner
 - Setting up workstation to start downloading data
- **Jetson Orin:**
 - Checked power usage running simple inference - <5600 mW

Next steps:

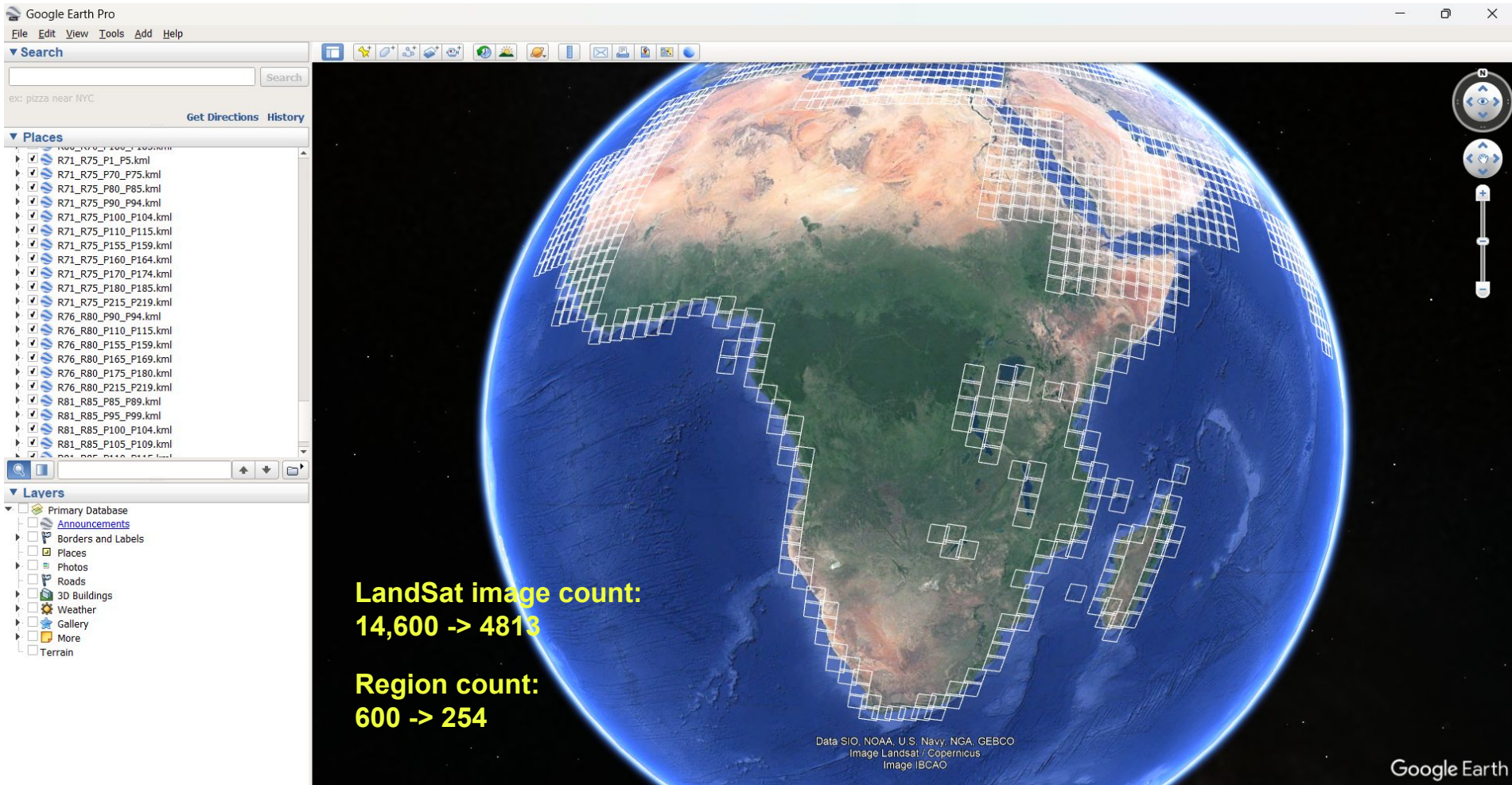
- Download and process Landsat data
- Test region classification with full data
- Take image using Pi through the camera with mounted lens
- Create software system diagrams for: data set generation, machine learning traning, and machine learning inference.

Interfaces

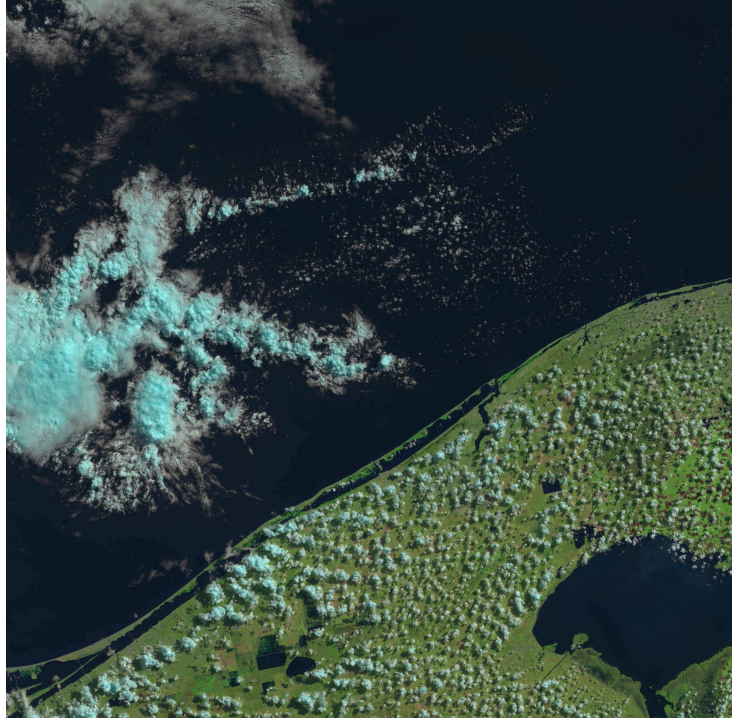
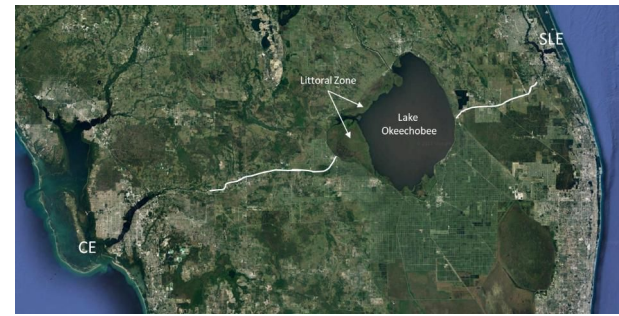
GNC:

- Discuss about partitioning Orin CPU/GPU usage
- Determine GNC estimation software that needs to be run on Orin/how that interacts with duty cycling the Orin

1st Pass Saliency Test: Keeping only the coastline & water body



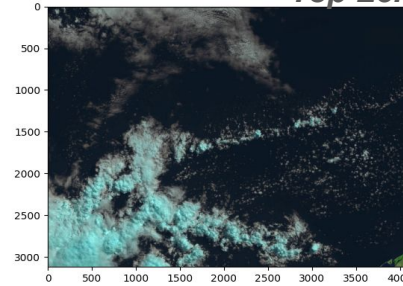
Lake Okeechobee, Orlando



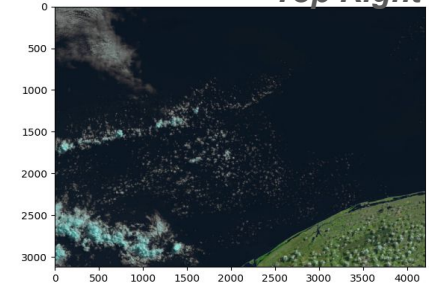
LandSat Scene

Camera frame cropped from:

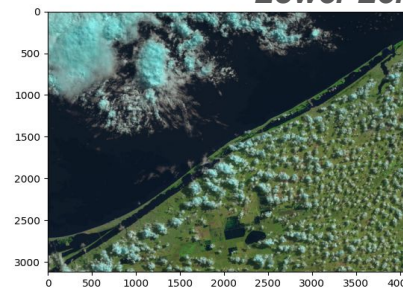
Top Left



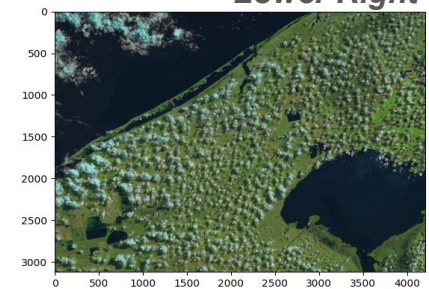
Top Right



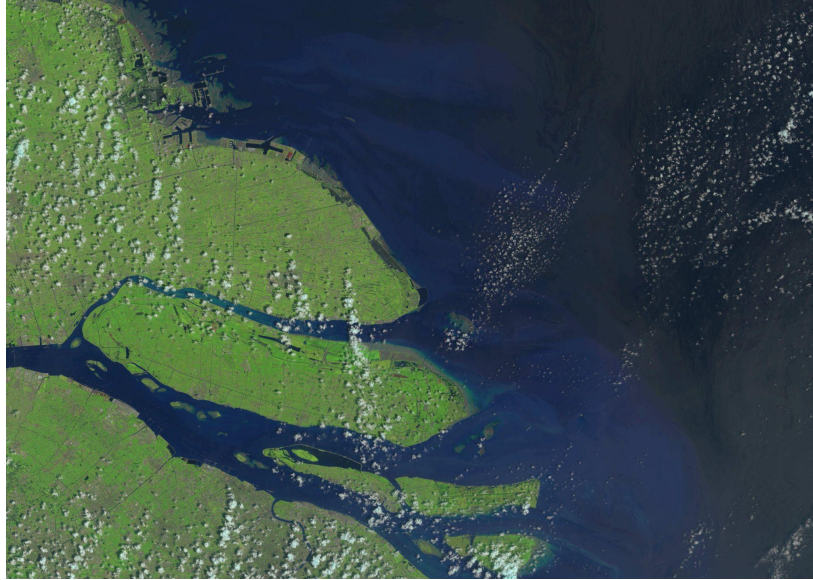
Lower Left



Lower Right



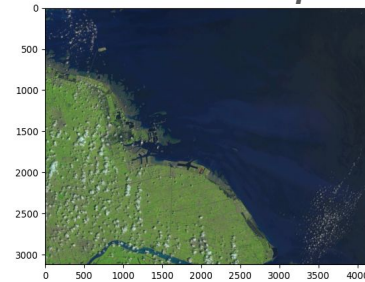
Chong Ming Island, Shanghai



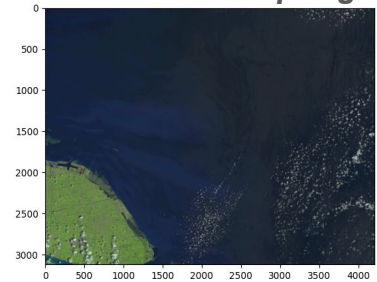
LandSat Scene



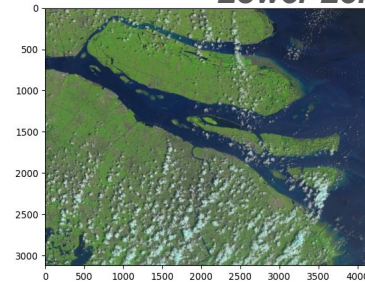
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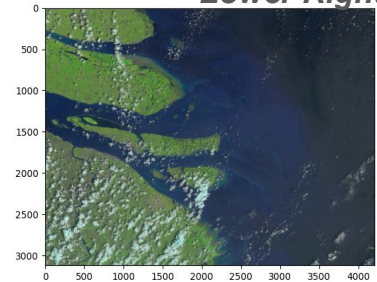
Top Right



Lower Left



Lower Right



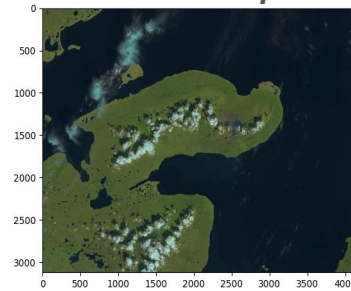
Great Bear Lake, Canada



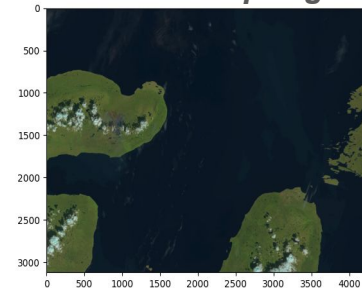
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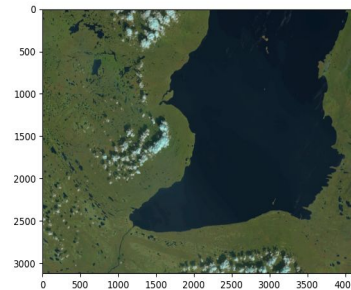
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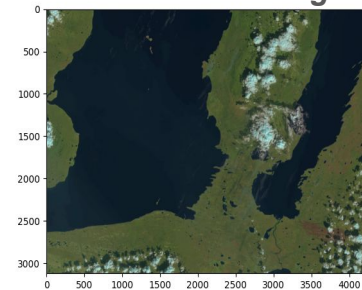
Top Right



Lower Left



Lower Right



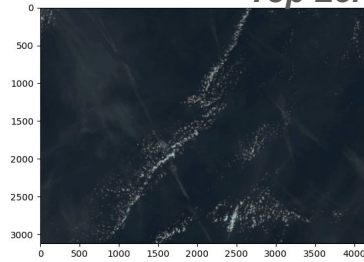
Most part of Jamaica



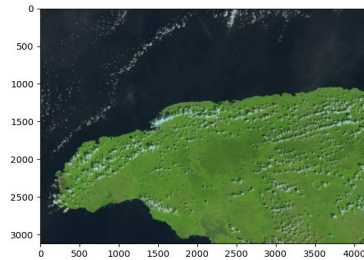
LandSat Scene



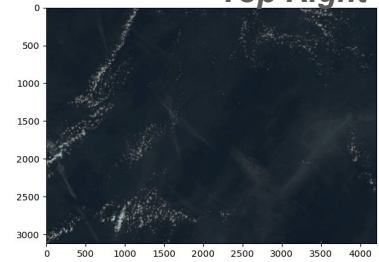
Top Left



Lower Left



Top Right



Lower Right

