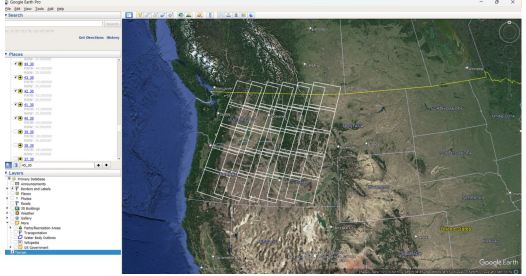


Blockers:

- Computing Resource

Requirements:

- Hardware (few missing parts)
- Hard Drives

Data Augmentation:

- Brightness
- Contrast
- Homography

Edge Detection:

- For horizon images

Dataset:

- **API Pipeline ready**
- **Accessing Landsat data**
- **Figuring out pixel-wise extraction from GeoTIFF images**

Interfaces

Avionics:

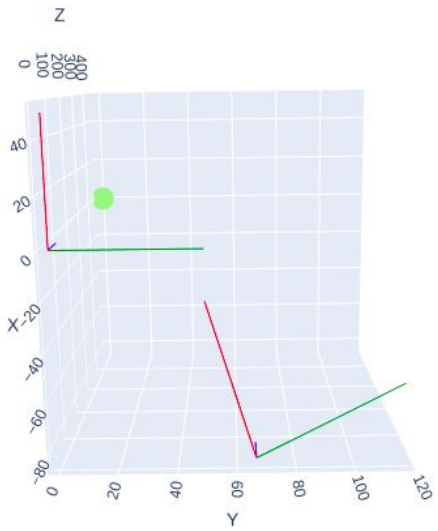
- Model prototype, size (MB), power consumption.

Original Image

Transformed Image

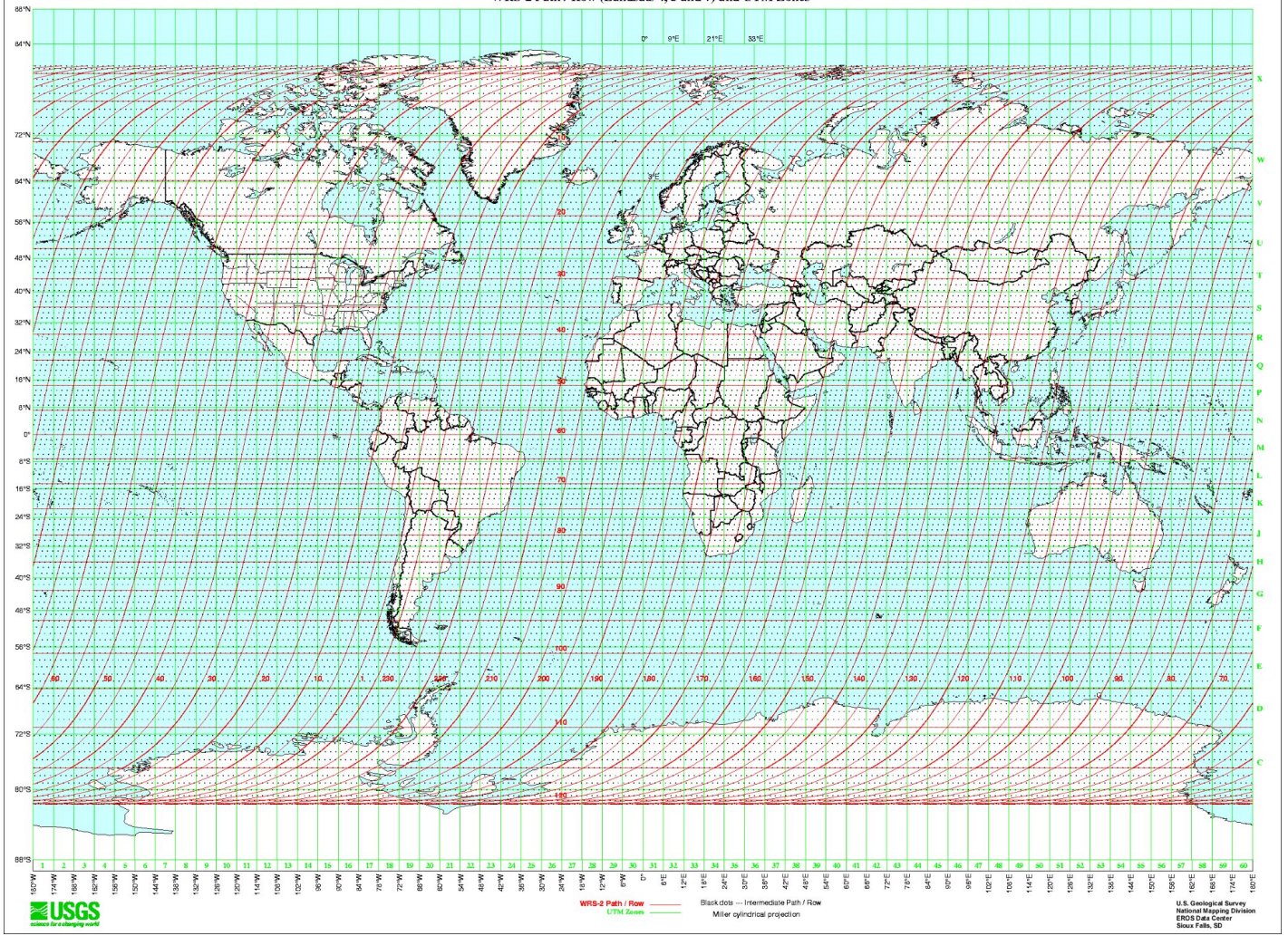
Original Image

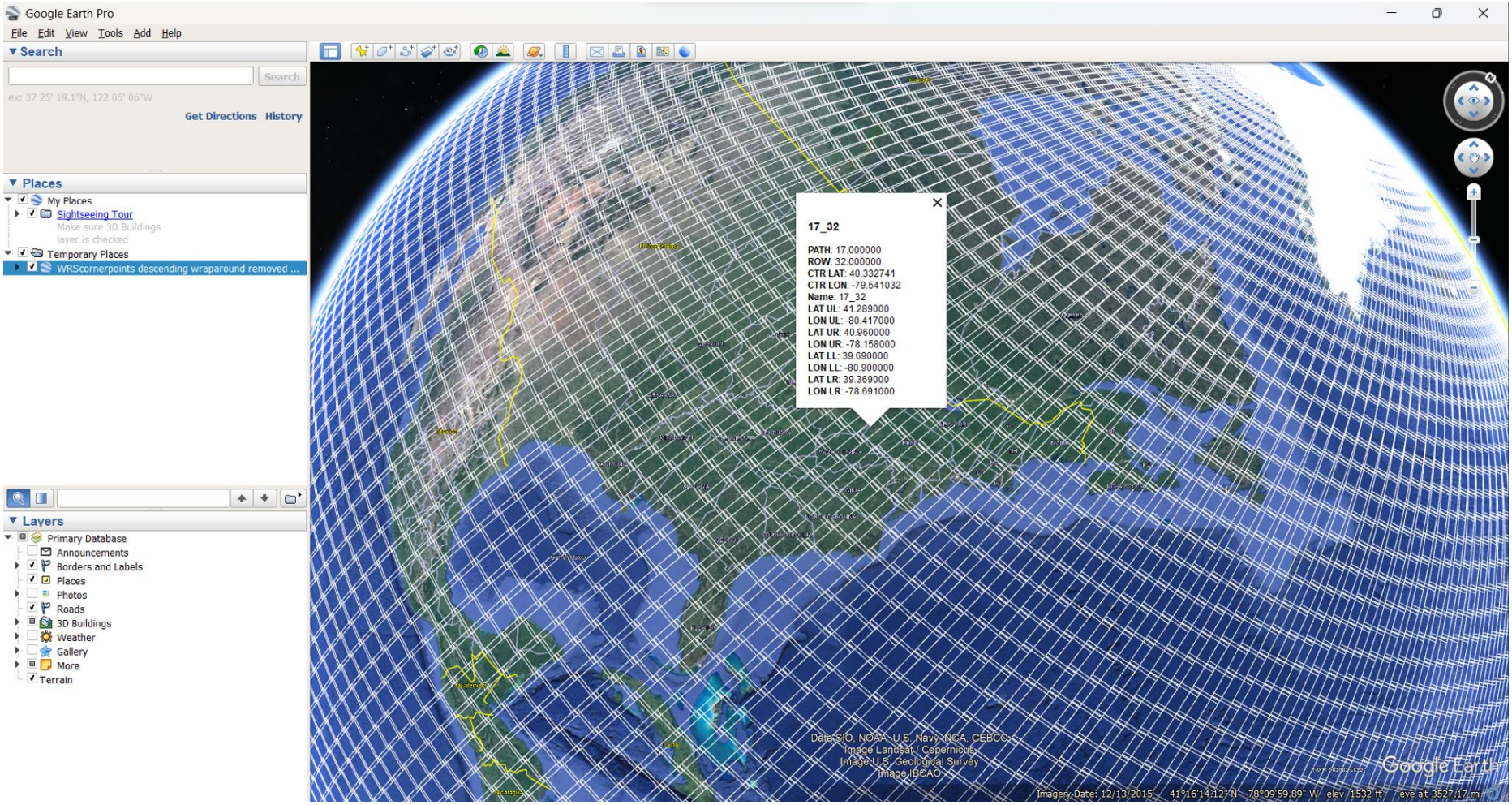
Transformed Image



Original Pose X-axis
Original Pose Y-axis
Original Pose Z-axis
Transformed Pose X-axis
Transformed Pose Y-axis
Transformed Pose Z-axis
Original Image Center
Transformed Image Center

WRS-2 Path / Row (Landsats 4, 5 and 7) and UTM Zones




Google Earth Pro
File Edit View Tools Add Help
Search
Search
ex: 37 25' 19.1"N, 122 05' 06"W
Get Directions History
Places
My Places
Sightseeing Tour
Make sure 3D Buildings layer is checked
Temporary Places
WRScornerpoints descending wraparound removed ...
Layers
Primary Database
Announcements
Borders and Labels
Places
Photos
Roads
3D Buildings
Weather
Gallery
More
Terrain
17_32
PATH: 17.000000
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CTR LAT: 40.332741
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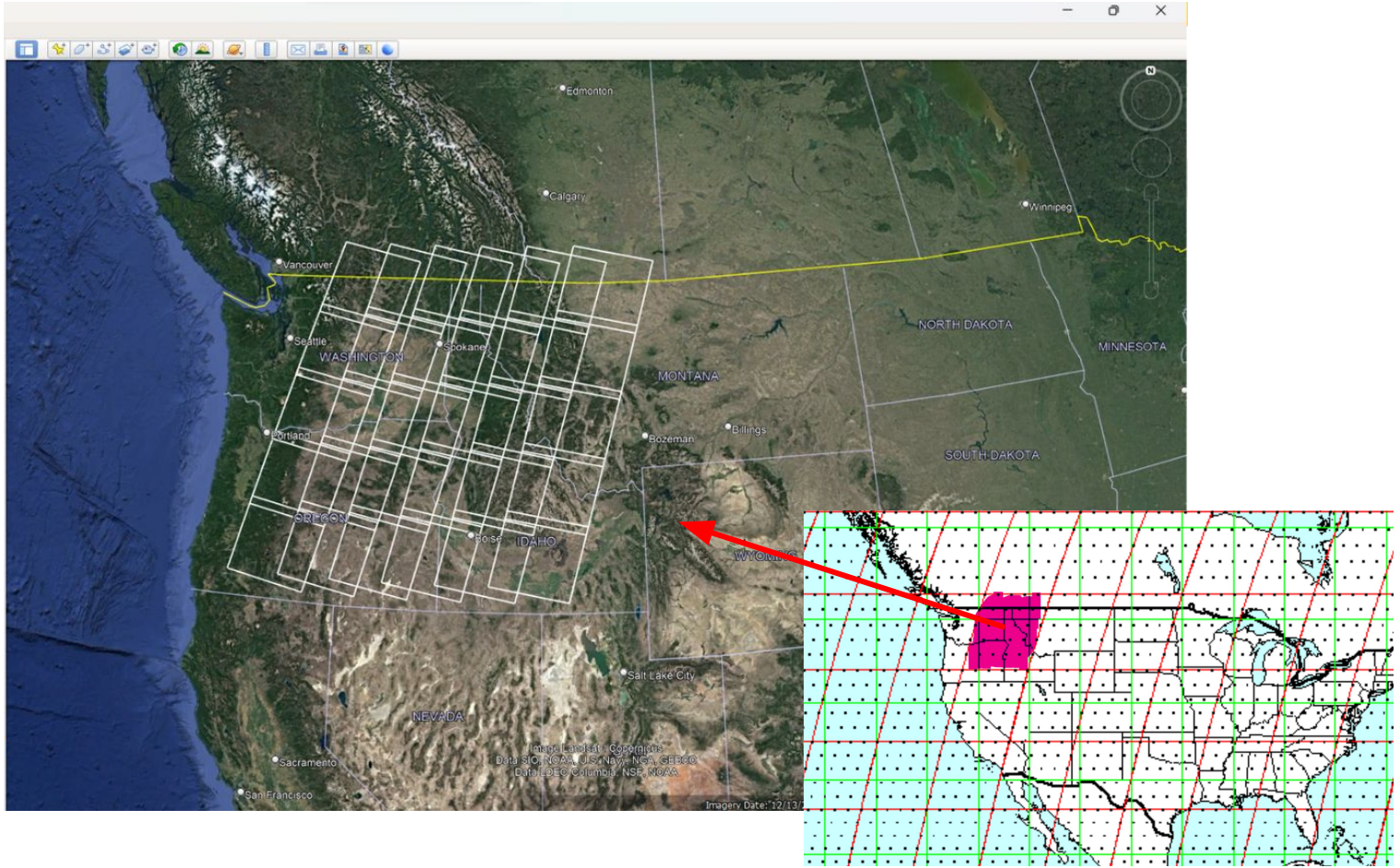
LAT LL: 39.690000
LON LL: -80.900000
LAT LR: 39.369000
LON LR: -78.691000
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus
Image U.S. Geological Survey
Image IBCAO
Google Earth
Imagery Date: 12/13/2015 41°16'14.12" N 78°09'59.89" W elev 1532 ft eye alt 3527.17 mi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Data LDEO-Columbia, NSF, NOAA