

Highest Classification is up to UNCLASSIFIED



G-EGD
EVWHS

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Update on Digital Globe's EnhancedView Web Hosting Service

Tom Hollenhorst –
EPA/ORD Great Lakes Toxicology & Ecology Division

2020 GIS Workgroup Annual Meeting

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EPA use and applications....

Have you used the Enhanced View Web Hosting Service (EVHS) for Digital Globe Satellite imag...



Hollenhorst, Thomas
To **GIS Workgroup**

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Thu 3/19/2020 10:07 AM

Questions for you all:

1. Have you used the Enhanced View Web Hosting Service (EVHS) for Digital Globe Satellite imagery?
 - a.
2. If so, where and what have you used it for?
 - a.
3. Did you have any trouble/frustrations using it? What were they?
 - a.
4. Do you have any good ideas or suggestions on how this might be made better?
 - a.
5. Any suggestions or good ideas for new uses and/or applications?
 - a.

Thanks!

Tom

Tom Hollenhorst
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About EVWHS

← → ↺ gcs-docs.s3.amazonaws.com/EVWHS/Introduction_Topics/Introduction.htm 🌐 ☆ 🇺🇸 🖱️ 🌐 | T

📱 Apps Google

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G-EGD / EVWHS

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About My DigitalGlobe

My DigitalGlobe is a web-based application to quickly and easily view, analyze, and download DigitalGlobe data that is available to you via Global Enhanced GEOINT Delivery (G-EGD). Your subscription may contain DigitalGlobe satellite or aerial imagery, or even custom sources of geospatial data. My DigitalGlobe allows you to identify the best available image(s) for your area of interest and then view and download them in the format that integrates most efficiently into your workflow.

DigitalGlobe's most current imagery, the "global daily take," adds 800–1,000 strips equaling 1–1.5 million km² each day with these specifications:

- » Cloud Cover: 50% equatorial, 35% outside equatorial, or as NGA-directed
- » Off-Nadir Angle: 0–30 degrees
- » Digital Elevation Models (DEMs):
 - » SRTM 90m
 - » USGS National Elevation Dataset (NED) 30m over CONUS & Alaska, NED 10m over Hawaii
 - » InterMap World 30m (ASTER-based) north of 60°



Some features are not available when viewing My DigitalGlobe on a mobile device.

ON THIS PAGE

[About My DigitalGlobe](#)

National Geospatial-Intelligence Agency's (NGA) platform to provide all unclassified and commercial imagery free of charge to the federal government through its Enhanced View Web Hosting Service (EVWHS).



EVWHS Summary

- Access to both full repository of archived images as well as new imagery uploaded daily.
- Accessible through tablet, smartphone or computer.
- Built in analytical and filtering tools.
- Imagery may be downloaded for use with ArcGIS, Google Earth and other platforms.

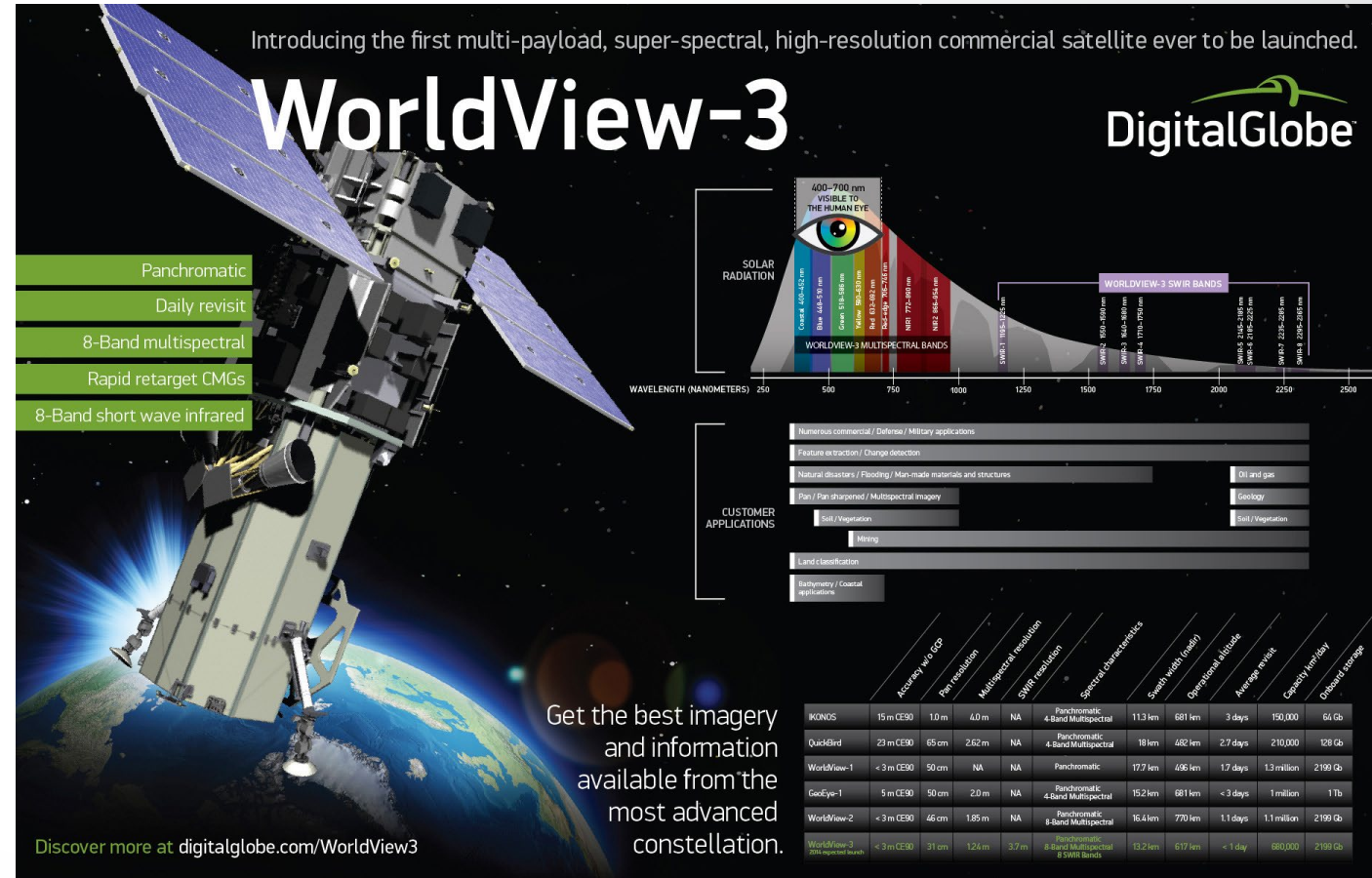


- Carrie Middleton presented an overview of the DigitalGlobe and Pictometry Online services available to EPA on a GIS Workgroup webinar in June of 2015.
- Steven Lennartz presented on Digital Globe's Online Imagery in 2019.



EVWHS Summary

- Available to all federal users. Geographic access is based on mission requirements.
- State, local and tribal agencies working with federal partners may be sponsored for access.
- Free of charge. NGA has already paid the licensing for all federal government use of the imagery.





Digital Globe “NextView” license

NEXTVIEW IMAGERY END USER LICENSE AGREEMENT : End User License Agreement ("EULA") between DigitalGlobe, National Geospatial-Intelligence Agency ("NGA")

- The imagery may be used by the U.S. Government (including, all branches, departments, agencies, and offices).
- The U.S. Government may provide the imagery to the following
 - organizations:
 - State Governments
 - Local Governments
 - Foreign Governments and inter-governmental organizations
 - NGO's and other non-profit organizations
- Licensed users may generate an unlimited number of hardcopies and softcopies of the unprocessed sensor data

* non-commercial use (suggest consulting license agreement before sharing)





EVWHS Summary

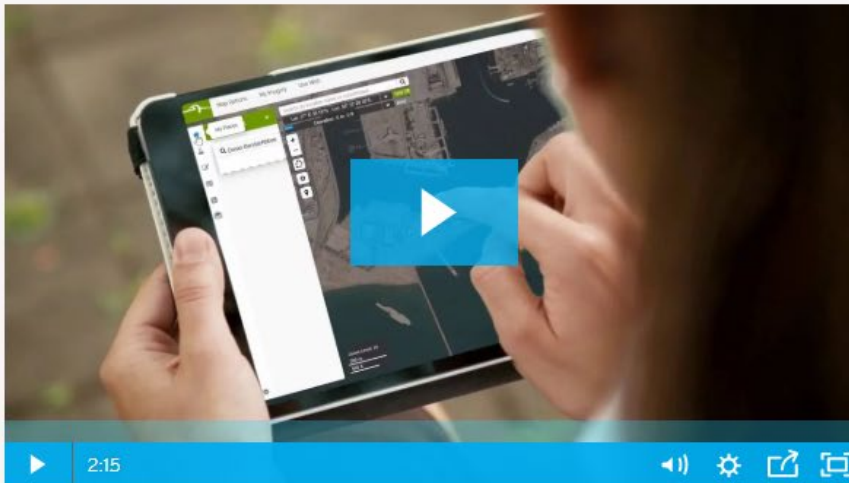


WorldView-3

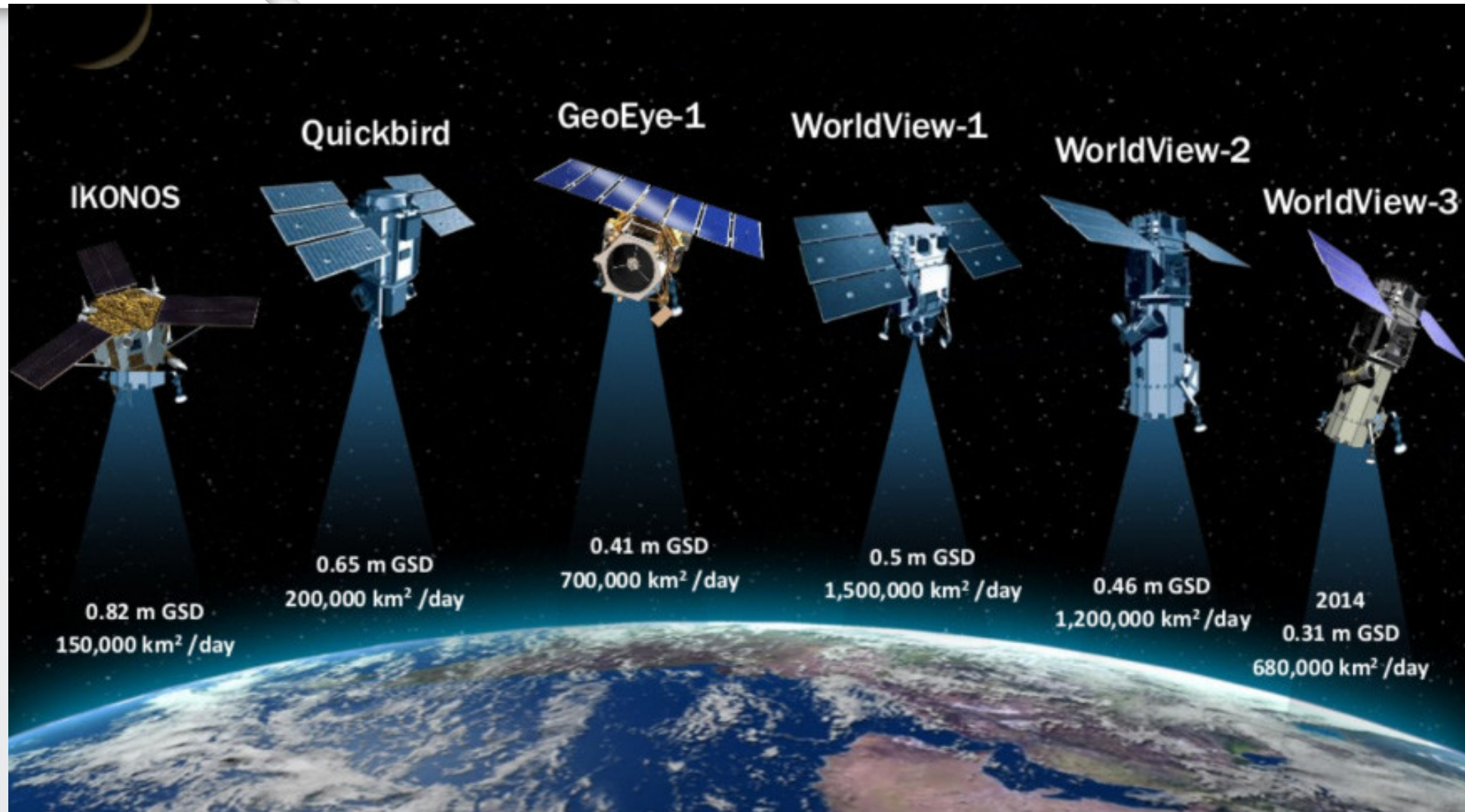
You already have access

If you are supporting a government mission you have access to EnhancedView Web Hosting Service (EVWHS) at no extra cost.

[Request an account](#)



DigitalGlobe's EVWHS has enabled the National Geospatial-Intelligence Agency to provide GEOINT wherever it's needed: an analyst's desktop at a federal agency. An officer's laptop on a military base. A first responder's tablet in a disaster zone. Accessing imagery is quick and easy. Users can choose My Digital- Globe web portal, Google Earth, or a variety of Open Geospatial Consortium Web Services. We handle all the processing, hosting, and security so federal workers can focus on reaching goals.



GSD: Ground Sampling Distance (resolution)



Digital Globe Collect (within last year)

Highest Classification is up to UNCLASSIFIED

G-EGD / EVWHS

Q Name or coordinates

Map Options

My Imagery

Use With

Cart

USA_All_Buffered

Tom Hollenhorst

☒ Google Maps

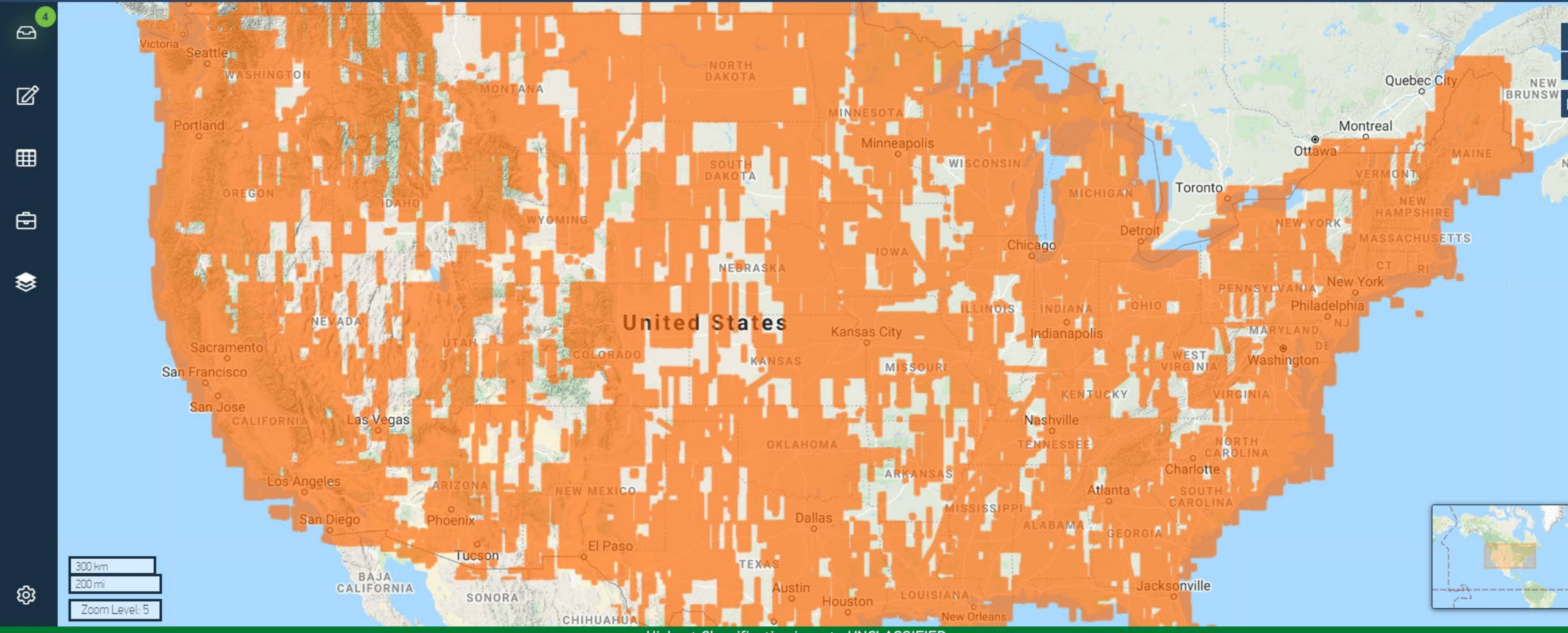
☐ OpenStreetMap

☐ MapEdit

Map Transparency

LAT: 47.84266 LON: -121.77246

Elevation: N/A





Digital Globe Collect (last 6 months)

Highest Classification is up to UNCLASSIFIED

G-EGD / EVWHS

Q Name or coordinates

Map Options

My Imagery

Use With

Cart

USA_All_Buffered

Tom Hollenhorst



☒ Google Maps

☐ OpenStreetMap

☐ MapEdit

Map Transparency



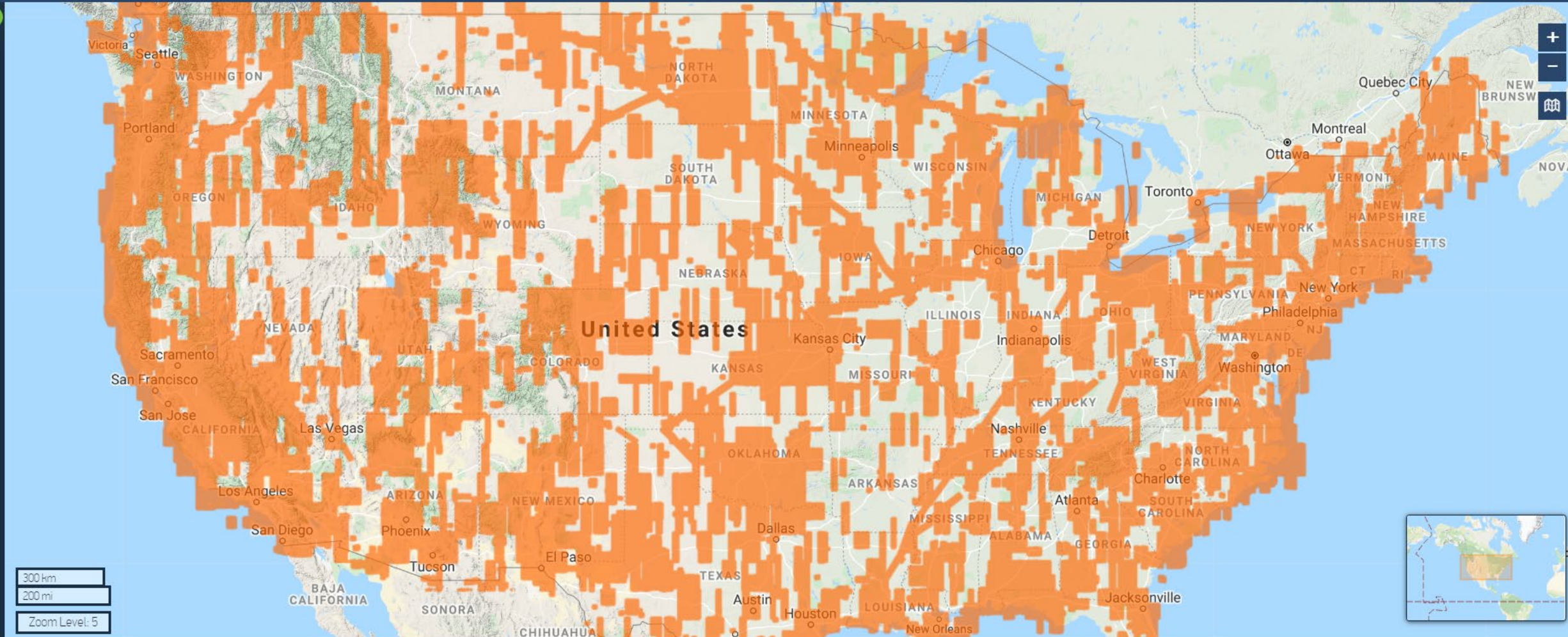
LAT: 29.61167 : LON: -76.11328



Elevation: N/A



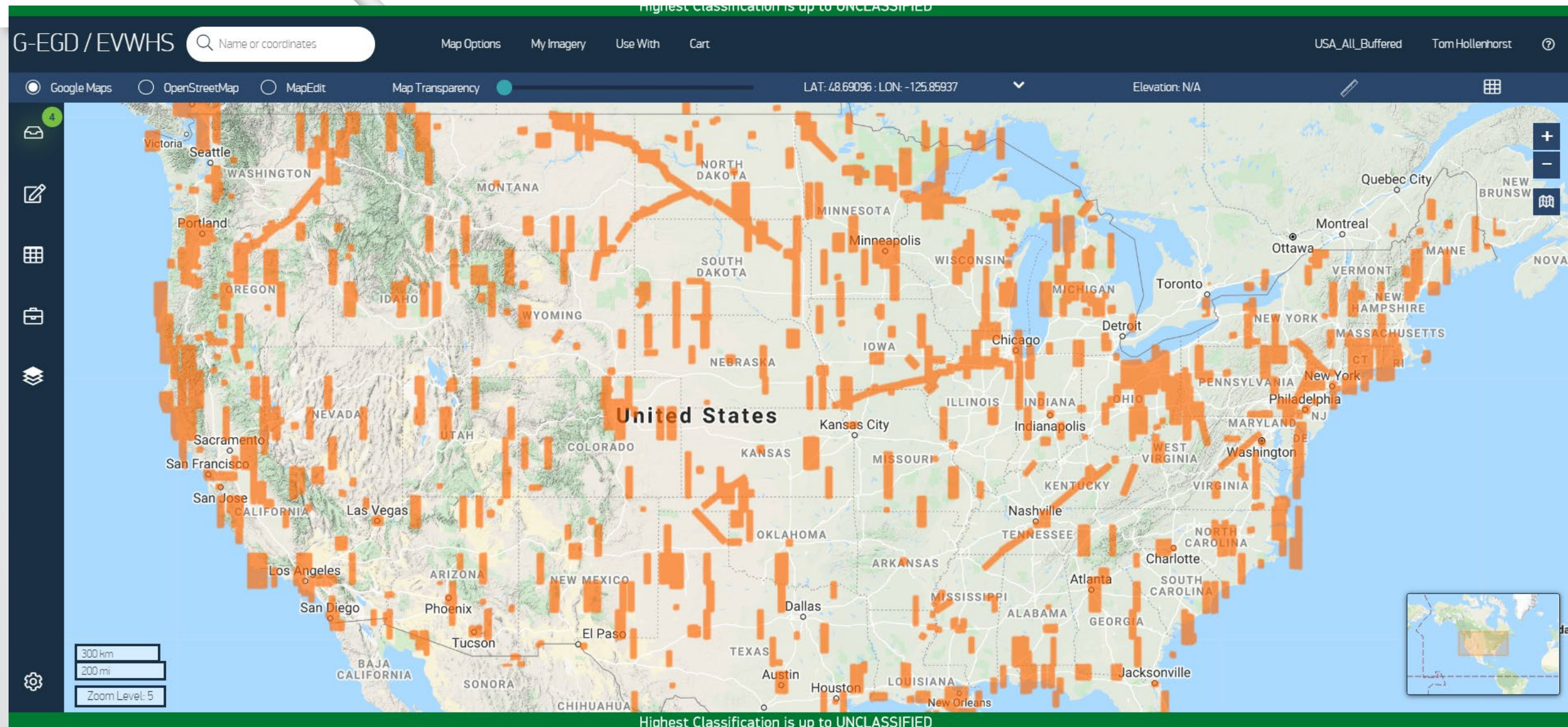
300 km
200 mi
Zoom Level: 5



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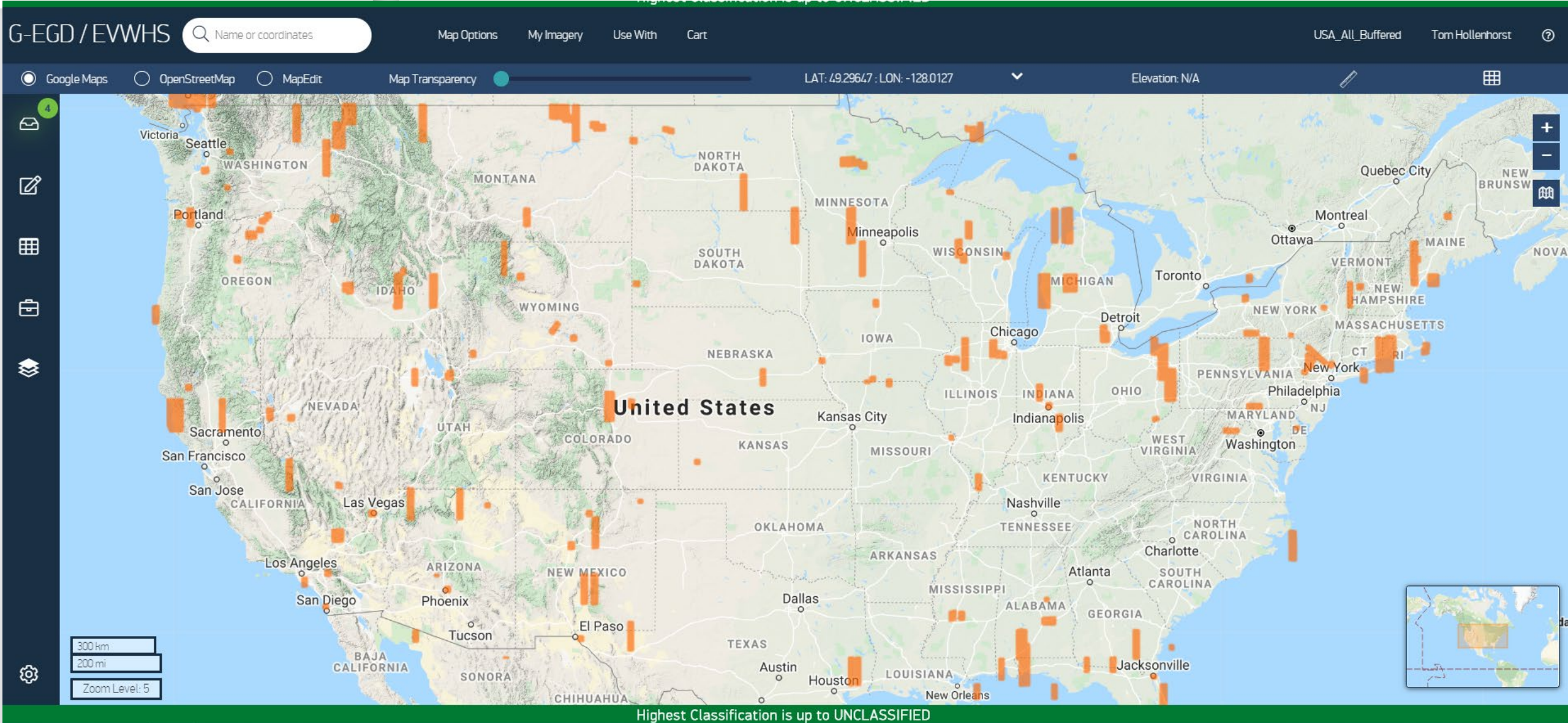


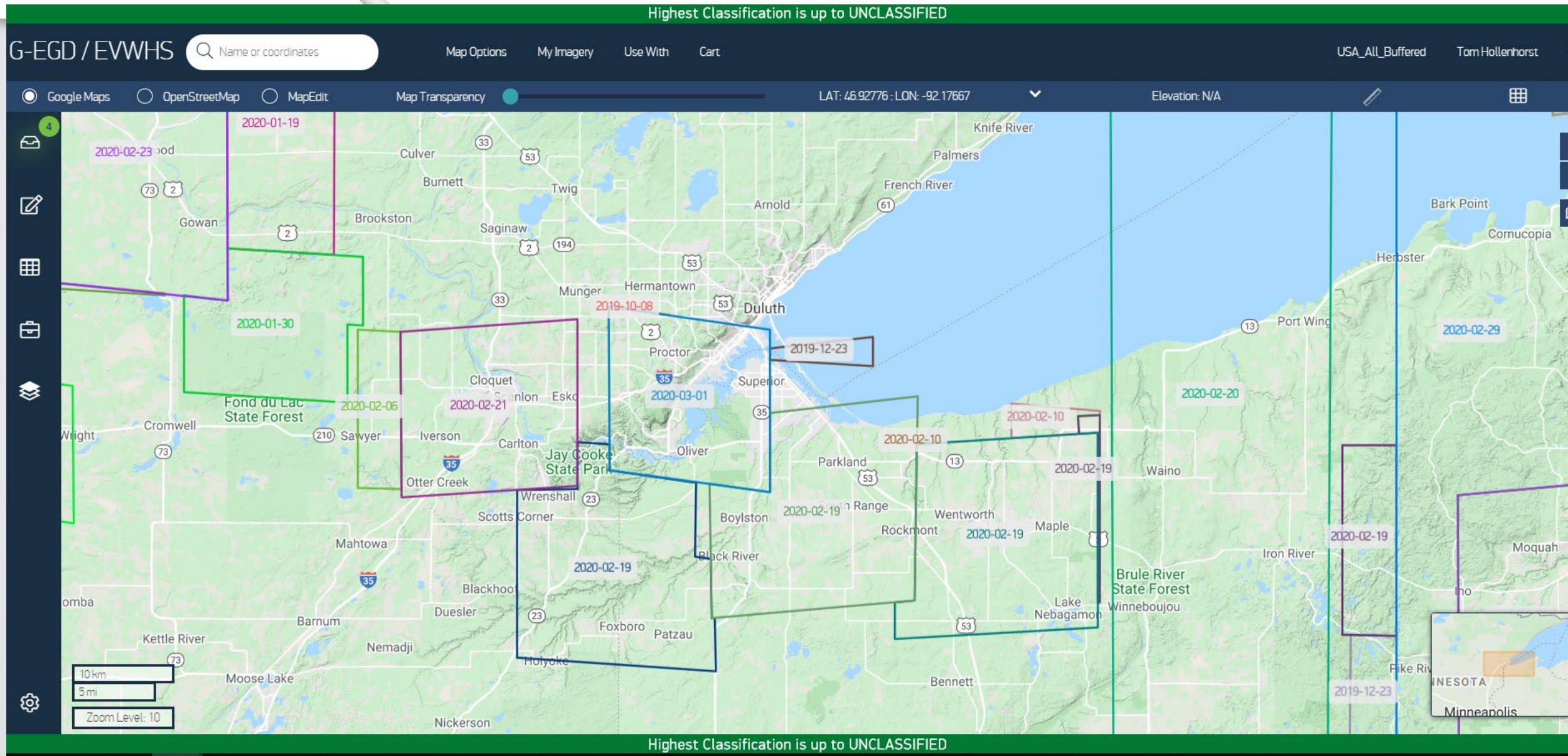
Digital Globe Collect (last 30 days)





Digital Globe Collect (last 7 days)

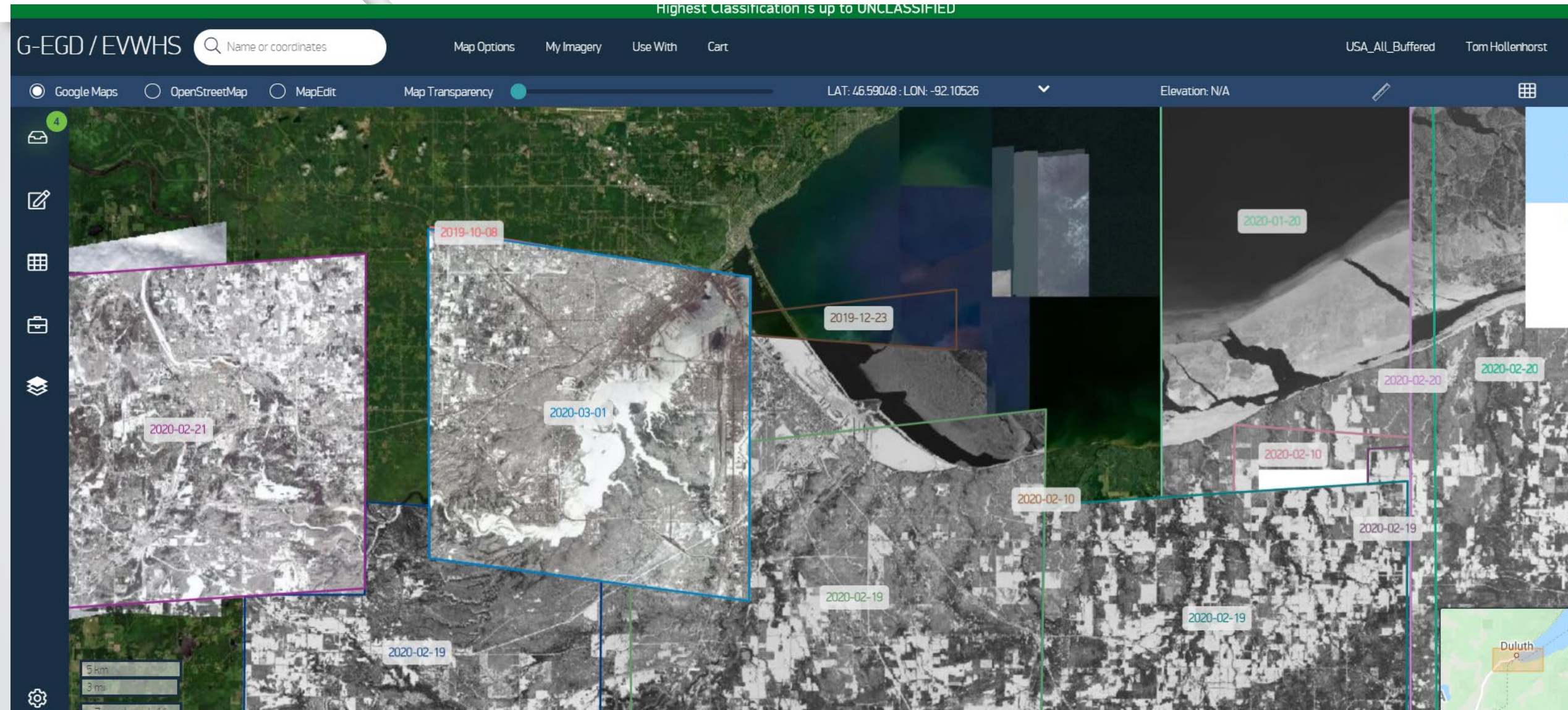






Duluth Area Collects (last 30 days)

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G-EGD / EVWHS

Name or coordinates

Map Options

Mv Imagery

Use With

Cart

Google Maps

OpenStreetMap

MapEdit

Map Transparency

4

1 km

3000 ft

Zoom Level: 13

2019-02-17

2019-02-25

2019-03-21

2019-04-04

2019-04-15

Filters

Acquisition Date

(From: 2019-03-01, To: 2020-03-19)

From: 2019-03-01

To: 2020-03-19

(Date format: yyyy-mm-dd)

Cloud Cover

10%

Source

(WV02, WV03, GE01, QB02, IK02)

Sensor Type

(None)

Content Type

(None)

NIIRS

(None)

Max GSD

(None)

Image Bands

(None)

Off Nadir Angle

(None)

Sun Elevation

(None)

Target Azimuth

(None)

Close

Reset

Apply

USA_All_Buffered

Tom Hollenhorst

SRTM2 - 30m: 196 m. 643 ft

2019-11-15

2019-12-23

2020-02-10

2020-03-01

2020-03-01

Highest Classification is up to UNCLASSIFIED



Highest Classification is up to UNCLASSIFIED

G-EGD / EVWHS

Q Name or coordinates

Map OptionsMy ImageryUse WithCart

Google MapsOpenStreetMapMapEdit

Map T

4

1 km3000 ftZoom Level: 13

Tom's Library

Created

Name

Size

Status

Completed

2020-03-14 20:15 UTC

interstate_4_6_17

1.49 GB

Completed

2020-03-14 20:36 UTC

2020-03-14 20:12 UTC

interstate_9_19_20

350.09 MB

Completed

2020-03-14 20:21 UTC

2020-03-14 16:52 UTC

interstate_Island

32.95 MB

Completed

2020-03-14 18:06 UTC

2020-03-14 16:22 UTC

SLRmovie2

221.71 MB

Completed

2020-03-14 17:27 UTC

2020-03-14 16:18 UTC

SLR_movie1

175.90 MB

Completed

2020-03-14 17:06 UTC

2020-03-14 01:42 UTC

SLR_proj1_A_1

5.02 GB

Completed

2020-03-14 02:15 UTC

Storage in use: 29.84 GBStorage available: 570.16 GB

Total 12 | Processing 0 | Completed 12 | Failed 0

5%

Total Capacity: 600.00 GB

Items will only be available in the image library for two weeks.

DownloadDeleteTransfer HistoryClose

Auto-refresh list?

188 m. 617 ft

USA_All_BufferedTom Hollenhorst

2019-11-15

19192020

32019-02-172019-02-252019-03-212019-04-042019-04-152019-05-042019-05-072019-05-212019-05-262019-09-192019-09-192019-11-152019-11-152019-12-232020-02-102020-03-012020-03-01

HighSkype Meetings Appup to UNCLASSIFIED



Automated Information Request (not currently working)

G-EGD / EVWHS

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You are here: Features > Tools > AI Requests

Tools

AI Requests

Creating

Dashboard Tasks

Algorithm Help

AI Results

Annotations

Areas of Interest

Dashboard

Observations

Places

Automated Information (AI) Requests

Automated Information (AI) Requests are DigitalGlobe algorithms that provide valuable intelligence data for a selected Place. You can run these algorithms on any image.

Currently, G-EGD supports the following algorithms:

- » Aircraft Detection
- » Water Detection
- » Soil Detection
- » Ship Detection
- » Vehicle Detection
- » Polymer Detection
- » Paint Detection
- » Illicit Crop Detection

In This Section

- Creating
- Dashboard Tasks
- Algorithm Help



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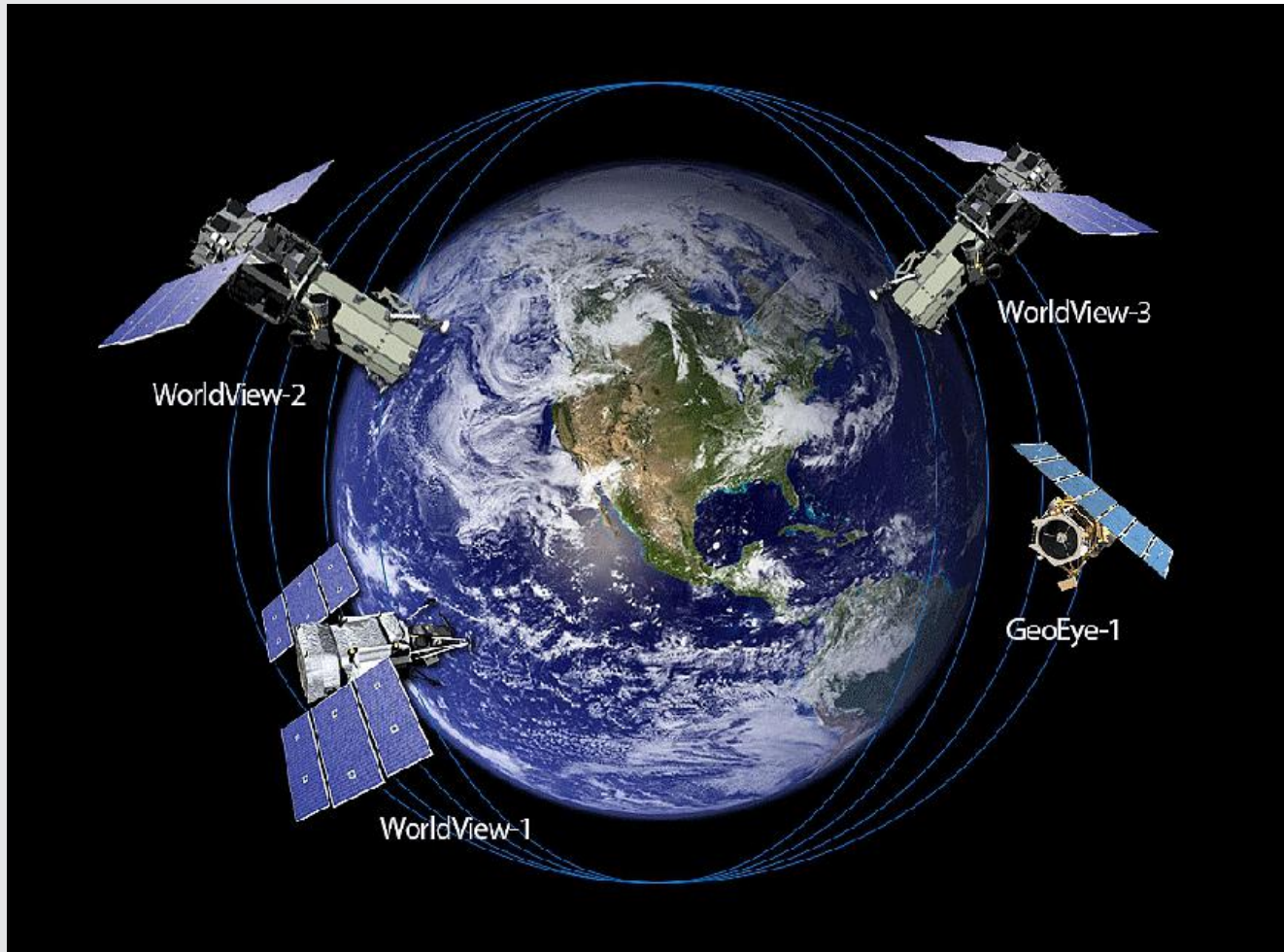
Tom

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6201 Congdon Blvd
Duluth, MN 55804
218-529-5220 Hollenhorst.Tom@epa.gov



Responses so far....

- How do I access this imagery?
- I have used the service and keep my account current in case I need to access imagery during emergencies. In my currently role I rarely get to do any hands on work myself though. In the past I used to access Digital Globe current and historic imagery all the time. That was when the company was GlobeExplorer and there was a very easy to use extension to ArcMap to search for and display imagery in areas of interest. EVHS replaces that functionality, though I think not as seamlessly.
 - Recreating that extension while utilizing or providing within AGOL using EVHS credentials would be a welcome thing.
- Throughout Region 4. For collecting recent and historic satellite imagery for development of CWA 404 enforcement cases.
 - I don't have any suggestions at this time for how the application can be made better, but the high resolution satellite imagery files can be large and therefore storage could become a problem. There may be occasions where others may be downloading imagery for the same area and could lead to multiple copies being stored. Something to think about.



Thanks!

Tom Hollenhorst
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