

KALININGRAD OCT - NOV 23 S1 COMPARISON



LOCATION A

Location A

54.6846473798, 21.0114129595

Missing radar?

Northern site

/R 183rd Guards Anti-Aircraft Missile Regiment

Southern site

Image © 2023 M

366 m

Google Earth

Imagery Date: 5/23/2018 54°40'59.54" N 21°01'12.10" E elev 17 m eye alt 1.58 km

1985

Location A

**01/10 VV+VH + 03/10 VV+VH + 08/10 VV+VH
Sentinel-1**

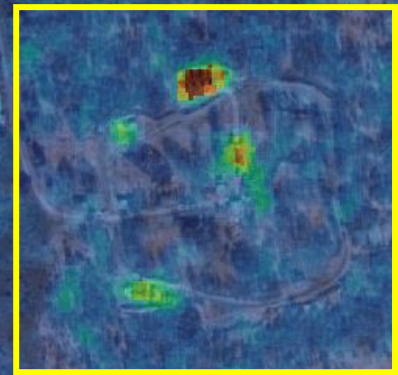
Launchers



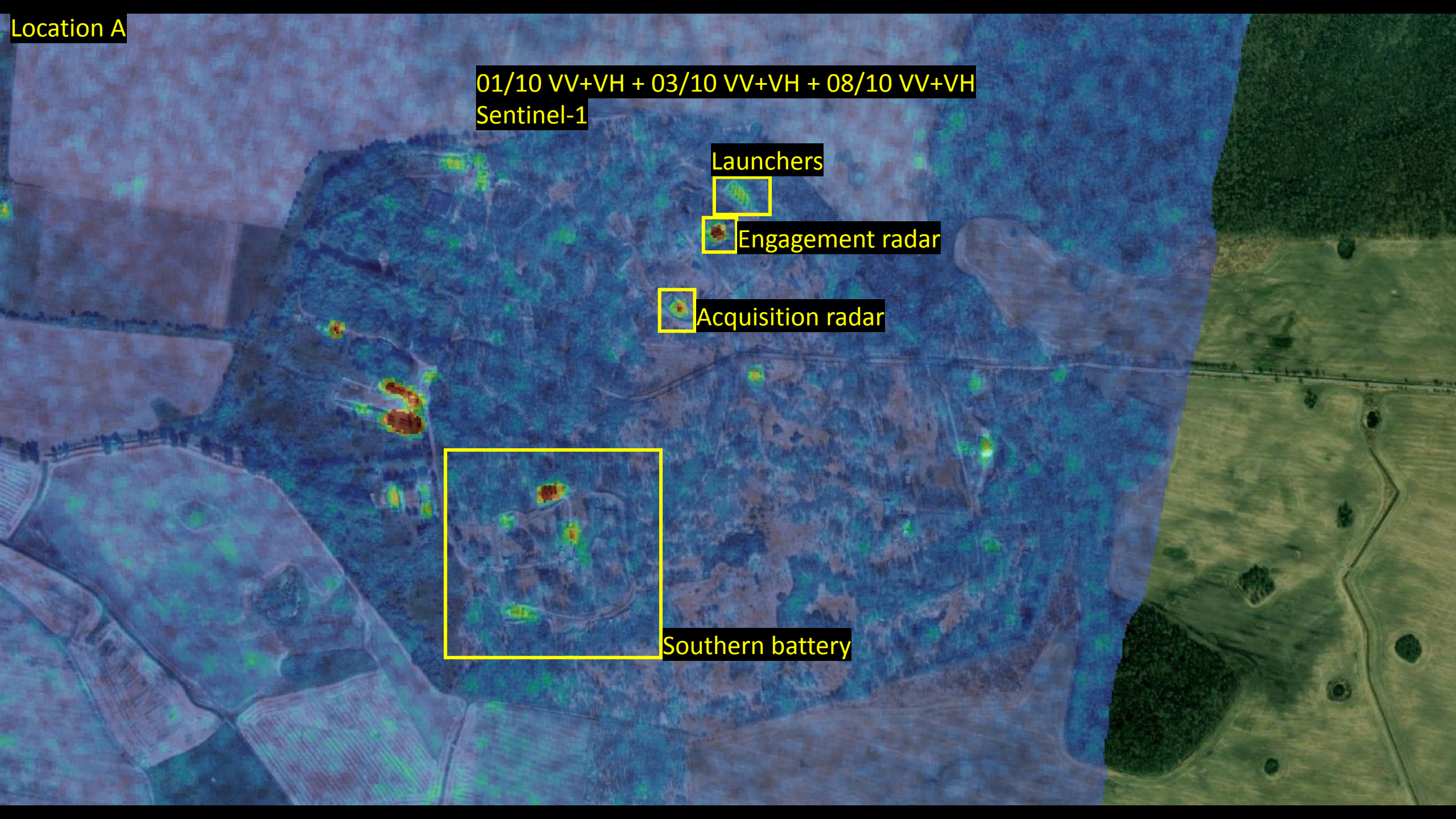
Engagement radar



Acquisition radar



Southern battery



Location A

01/11 VV+VH + 03/11 VV+VH + 06/11 VV+VH
Sentinel-1

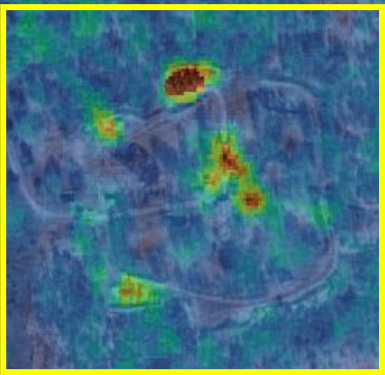
Launchers



Engagement radar



Acquisition radar



Southern battery



Launchers

Engagement radar

Acquisition radar

Location A, northern battery

UMBRA SPACE

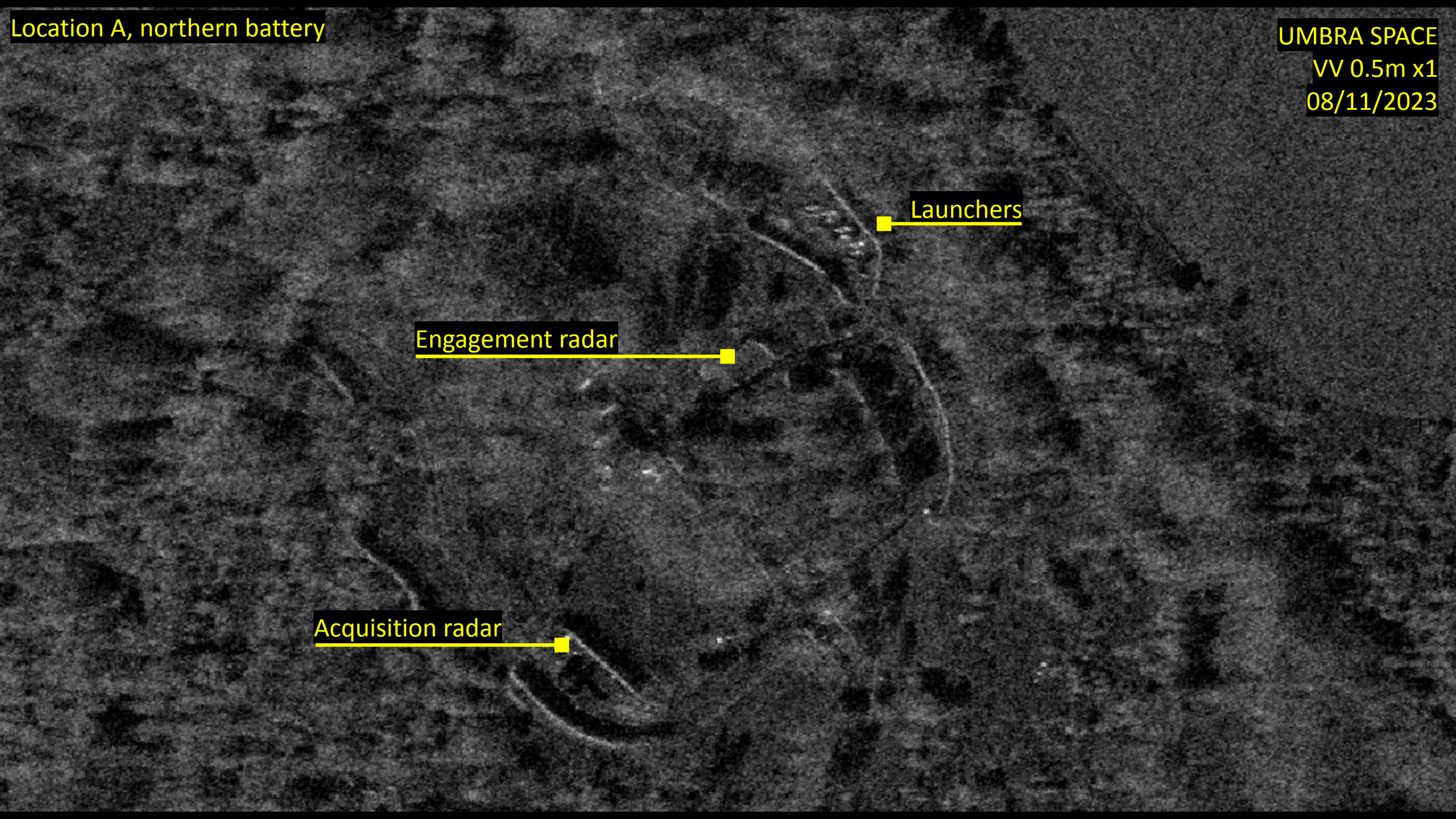
VV 0.5m x1

08/11/2023

Launchers

Engagement radar

Acquisition radar



Launchers

Engagement radar

Acquisition radar



Location A, southern battery

UMBRA SPACE

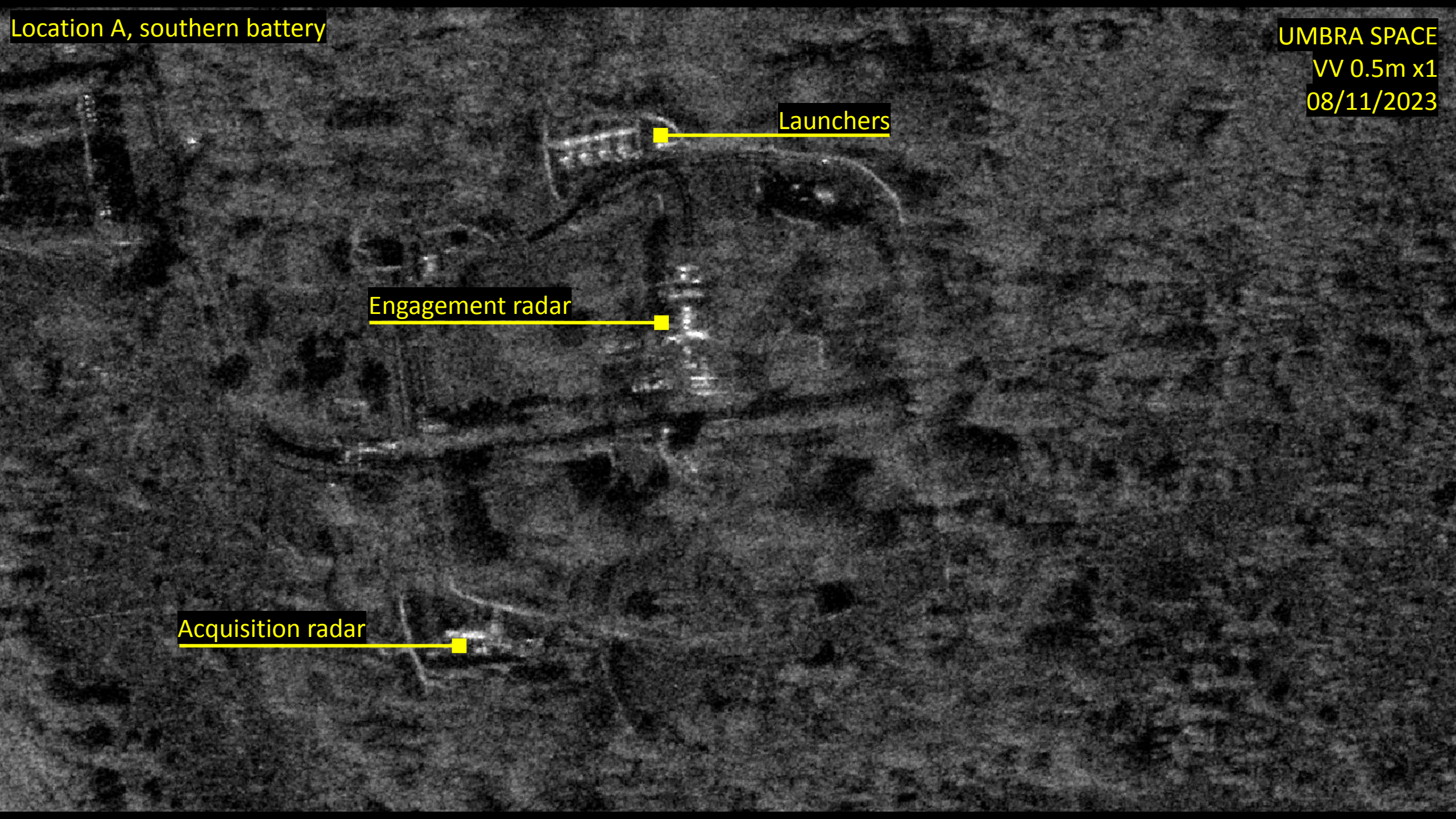
VV 0.5m x1

08/11/2023

Launchers

Engagement radar

Acquisition radar



LOCATION B

Location B

54.7467259714, 20.0746540922

Missing radar?

Image © 2023 Maxar Technologies

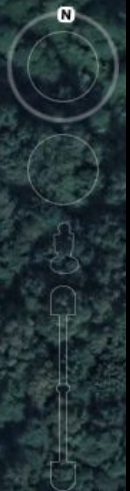
Google Earth

Imagery Date: 9/7/2022 54°44'48.48" N 20°04'44.26" E elev 10 m eye alt 1.48 km

1985

342 m

Location B



Engagement radar



Missing radar?

Acquisition radar

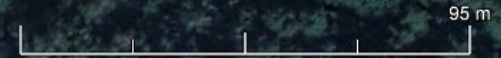


183rd Guards Anti-Aircraft Missile Regiment

Launchers



Image © 2023 Maxar Technologies



1985

Google Earth

Imagery Date: 9/7/2022 54°44'47.34" N 20°04'26.11" E elev 12 m eye alt 435 m

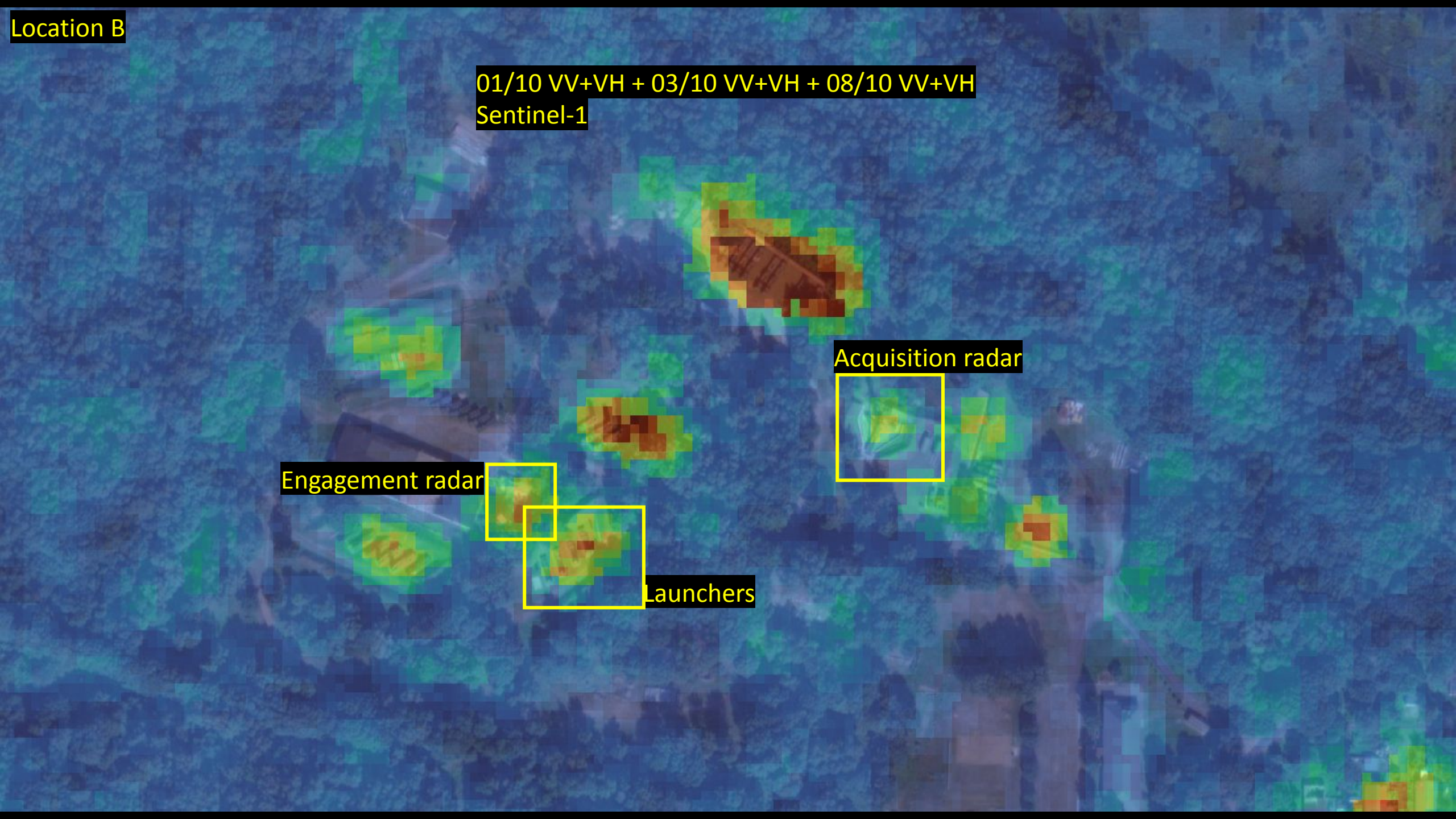
Location B

01/10 VV+VH + 03/10 VV+VH + 08/10 VV+VH
Sentinel-1

Engagement radar

Acquisition radar

Launchers



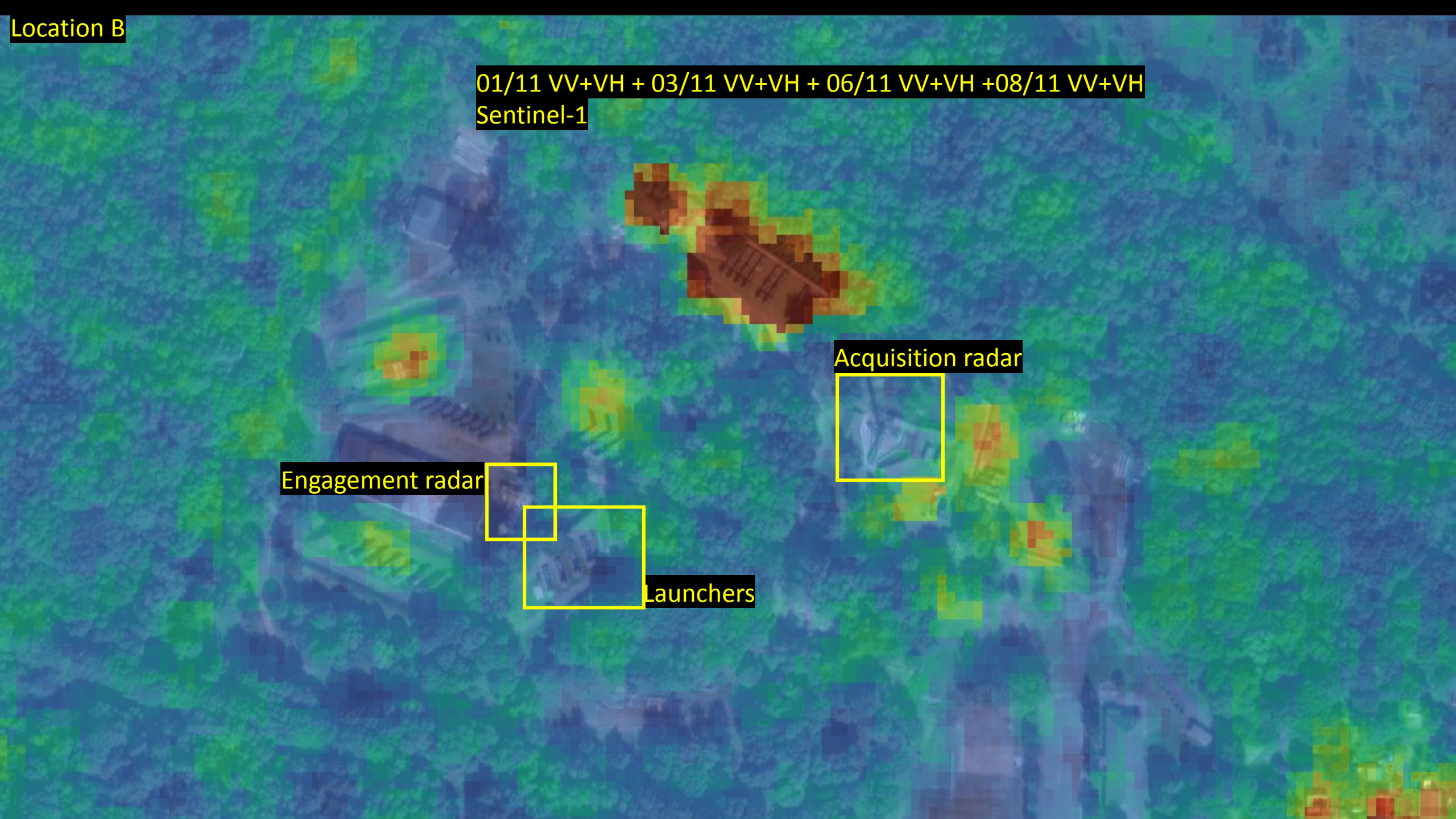
Location B

01/11 VV+VH + 03/11 VV+VH + 06/11 VV+VH + 08/11 VV+VH
Sentinel-1

Engagement radar

Acquisition radar

Launchers



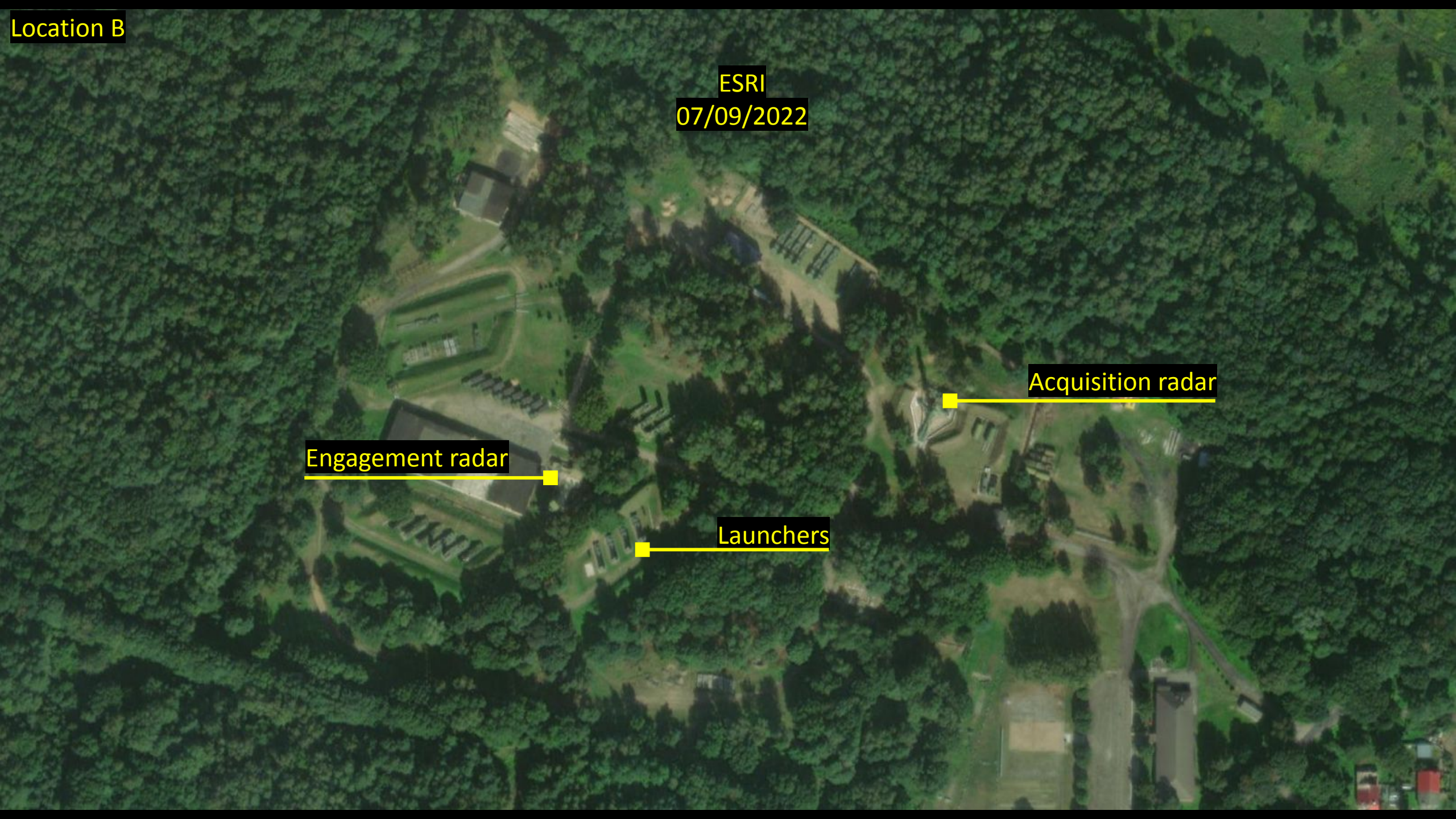
Location B

ESRI
07/09/2022

Engagement radar

Acquisition radar

Launchers



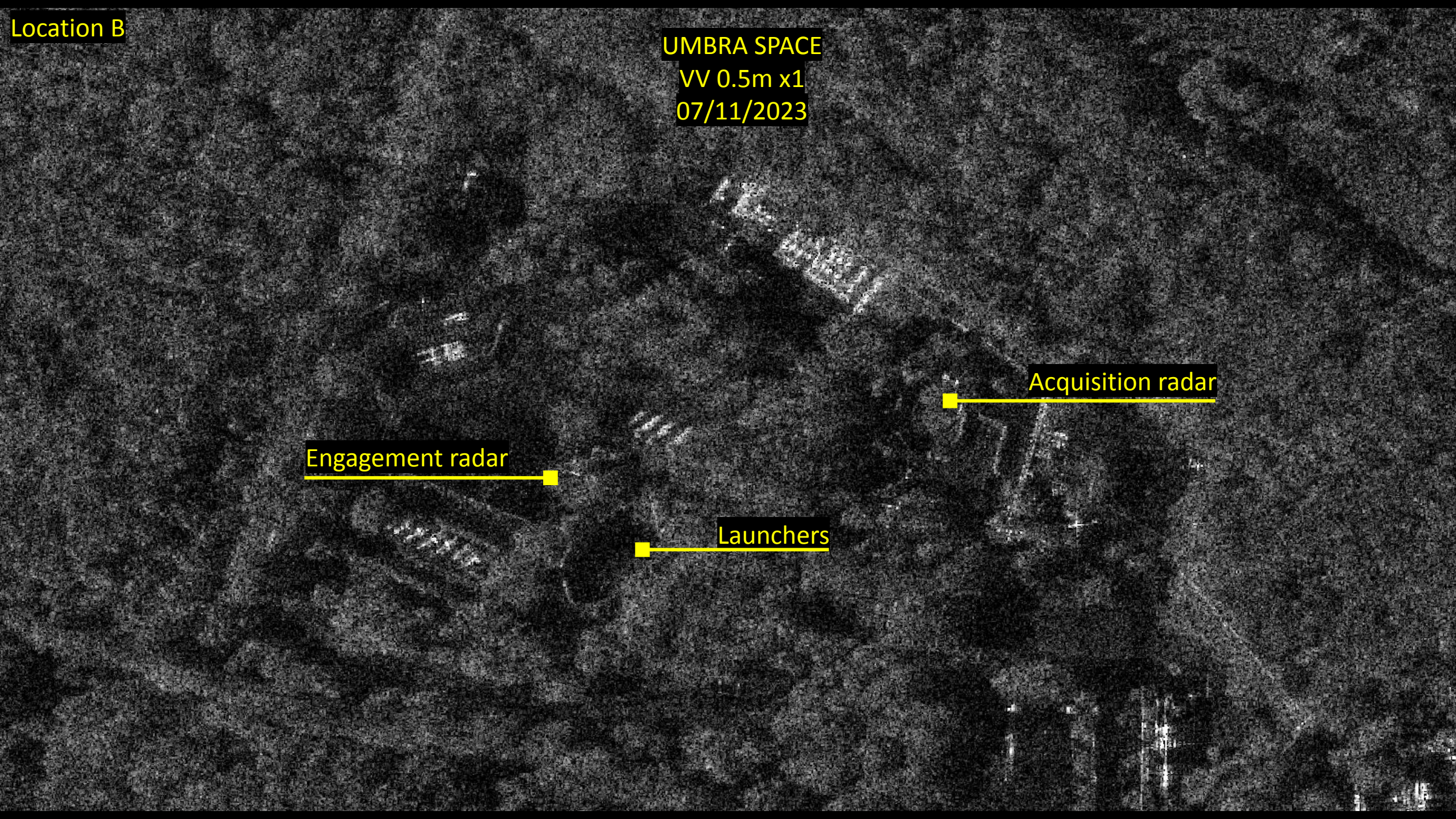
Location B

UMBRA SPACE
VV 0.5m x1
07/11/2023

Engagement radar

Acquisition radar

Launchers



LOCATION C

Location C

54.6008969673, 19.8481577348



Possible change
IR 183rd Guards Anti-Aircraft Missile Regiment

Image © 2023 Maxar Technologies

Google Earth

Imagery Date: 10/9/2022 54°36'05.80" N 19°51'15.28" E elev 1 m eye alt 1.60 km

1985



Possible change

IR 183rd Guards Anti-Aircraft Missile Regiment

Image © 2023 Maxar Technologies

Google Earth

1985

Imagery Date: 10/9/2022 54°36'02.76" N 19°50'54.48" E elev 3 m eye alt 350 m

80 m

Location C

28/09 VV+VH + 01/10 VV+VH + 03/10 VV+VH
Sentinel-1



Change unclear

Location C

01/11 VV+VH + 03/11 VV+VH + 06/11 VV+VH
Sentinel-1



Change unclear

LOCATION D

Location Dагородное

54.6024563756, 21.7904910726

AB Chernyakhovsk

Site 1

Worth checking

/R 183rd Guards Anti-Aircraft Missile Regiment

Пригородну Пригородный

AB Chernyakhovsk

Site 2

Worth checking

/R 183rd Guards Anti-Aircraft Missile Regiment

4th Guards Naval Assault Aviation Regiment

Ярки Ярки

Image © 2023 Maxar Technologies

Google Earth

Imagery Date: 5/9/2021 54°36'13.16" N 21°48'44.12" E elev 39 m eye alt 5.97 km

1985

1375 m

Location D

EO Browser

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Discover Visualize Compare Pins

Remove all Add all pins Share Opacity

- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-09-28
Lat/Lon: 54.61, 21.78 | Zoom: 14
Opacity: 0.52
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-09-07
Lat/Lon: 54.60, 19.85 | Zoom: 16
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-08
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.51
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-03
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-06-11
Lat/Lon: 54.68, 21.01 | Zoom: 14
Opacity: 1

Free sign up for all features



Location D

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Remove all Add all pins Share Opacity

- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-09-28
Lat/Lon: 54.61, 21.78 | Zoom: 14
Opacity: 0
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-09-07
Lat/Lon: 54.60, 19.85 | Zoom: 16
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-08
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.53
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-03
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.53
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-06-11
Lat/Lon: 54.68, 21.01 | Zoom: 14
Opacity: 1

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Location D

54.6143967193, 21.810410774

Site 1

Worth checking

/R 183rd Guards Anti-Aircraft Missile Regiment

Image © 2023 Maxar Technologies

Google Earth

Imagery Date: 5/9/2021 54°36'51.28" N 21°48'40.65" E elev 33 m eye alt 376 m

1985

Location D

28/09 VV+VH + 03/10 VV+VH
Sentinel-1

Site 1



Location D

01/11 VV+VH + 03/11 VV+VH
Sentinel-1

Site 1



Location D

54.5965995668, 21.7586819279

Site 2

Worth checking

IR 183rd Guards Anti-Aircraft Missile Regiment

Image © 2023 Maxar Technologies

186 m

1985

Imagery Date: 5/9/2021 54°35'47.06" N 21°45'41.21" E elev 38 m eye alt 841 m

Google Earth

Location D

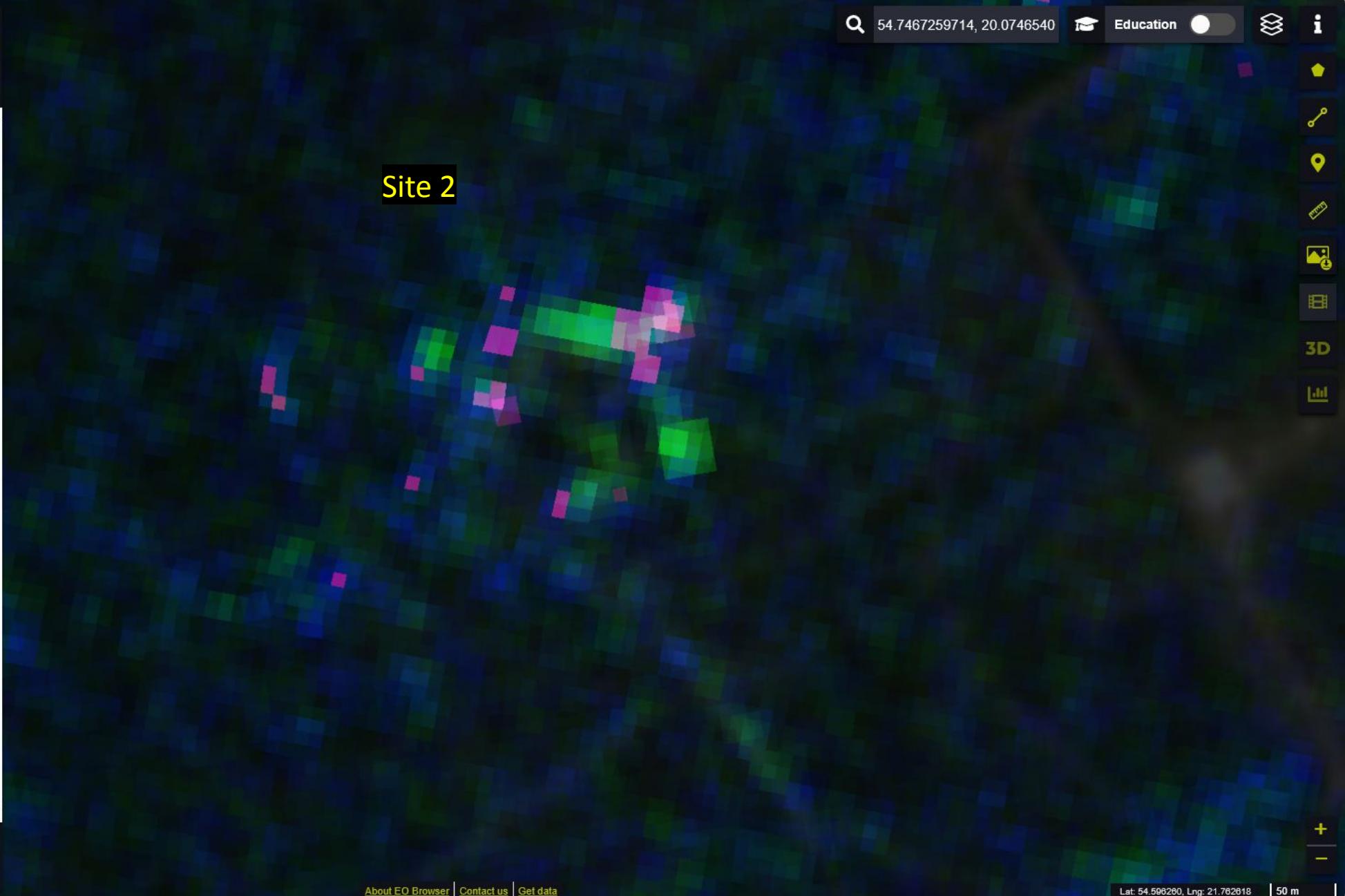
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Discover Visualize **Compare** Pins

Remove all Add all pins Share Opacity

- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-09-28
Lat/Lon: 54.61, 21.78 | Zoom: 14
Opacity: 0.53
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-09-07
Lat/Lon: 54.60, 19.85 | Zoom: 16
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-08
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.52
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-03
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-06-11
Lat/Lon: 54.68, 21.01 | Zoom: 14
Opacity: 1

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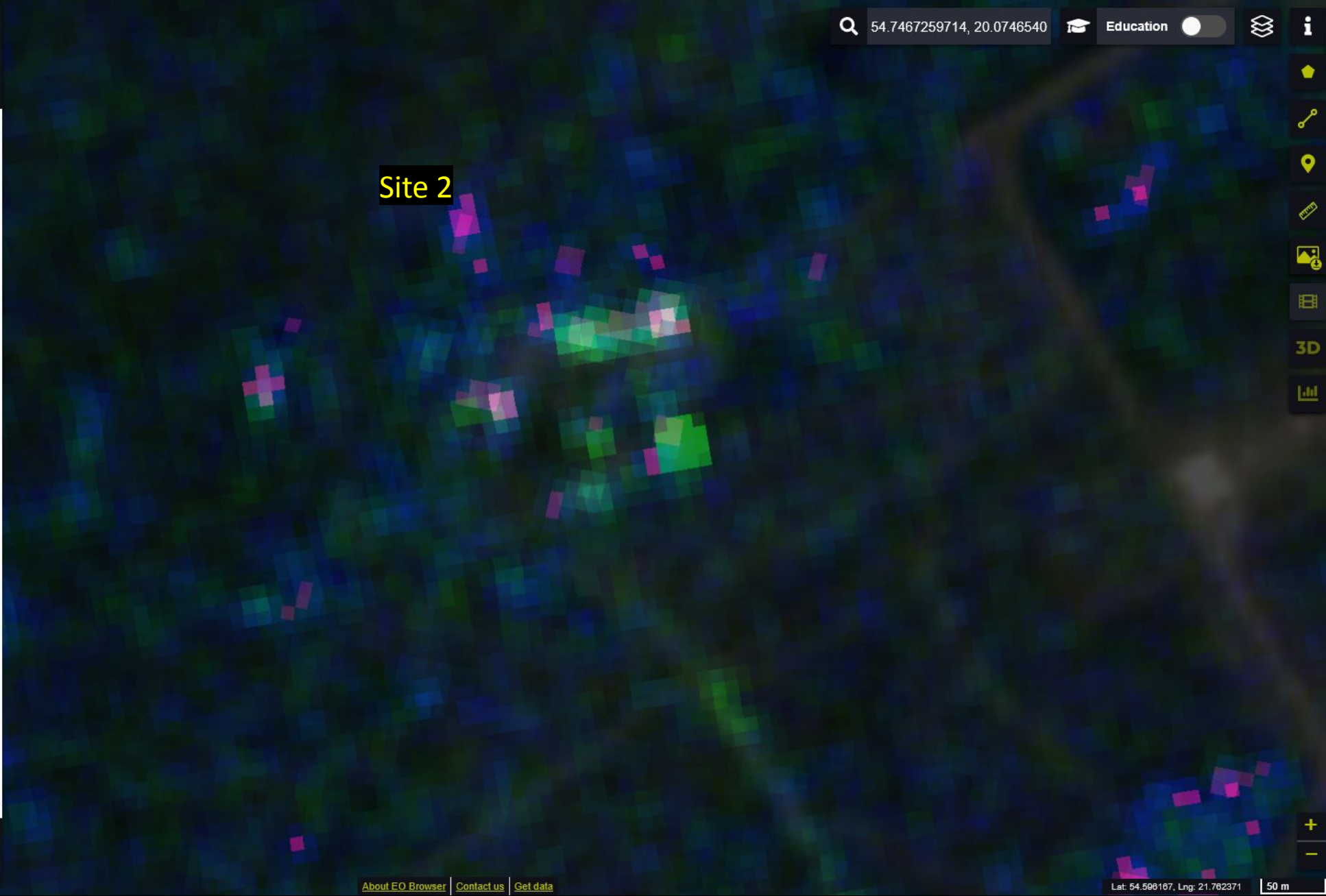
Location D

Discover Visualize Compare Pins

Remove all Add all pins Share Opacity

- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-09-28
Lat/Lon: 54.61, 21.78 | Zoom: 14
Opacity: 0
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-09-07
Lat/Lon: 54.60, 19.85 | Zoom: 16
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-08
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.45
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-03
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.44
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-06-11
Lat/Lon: 54.68, 21.01 | Zoom: 14
Opacity: 1

Site 2



LOCATION E

Location E

54.7510190297, 19.9747463782

Appears normal // Lower returns in OCT

Air Defense Radars

Missing?

Image © 2023 Maxar Technologies

Google Earth

Imagery Date: 11/16/2022 54°45'09.29" N 19°58'50.85" E elev 24 m eye alt 1.04 km

1985

237 m

Location E

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Remove all Add all pins Share Opacity

- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-09-28
Lat/Lon: 54.61, 21.78 | Zoom: 14
Opacity: 0
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-09-07
Lat/Lon: 54.60, 19.85 | Zoom: 16
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-08
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.5
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.49
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-03
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-06-11
Lat/Lon: 54.68, 21.01 | Zoom: 14
Opacity: 1

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- Fullscreen
- 3D
- Stats

Location E

EO Browser

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Remove all Add all pins Share Opacity

- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-09-28
Lat/Lon: 54.61, 21.78 | Zoom: 14
Opacity: 0
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-09-07
Lat/Lon: 54.60, 19.85 | Zoom: 16
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-08
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.52
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-03
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.51
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-06-11
Lat/Lon: 54.68, 21.01 | Zoom: 14
Opacity: 1

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LOCATION F



Location F
54.4808033158, 19.9158349441



F - Probably normal

BALTIYSKOYE BALTIYSKOE

Image © 2023 Maxar Technologies



1985

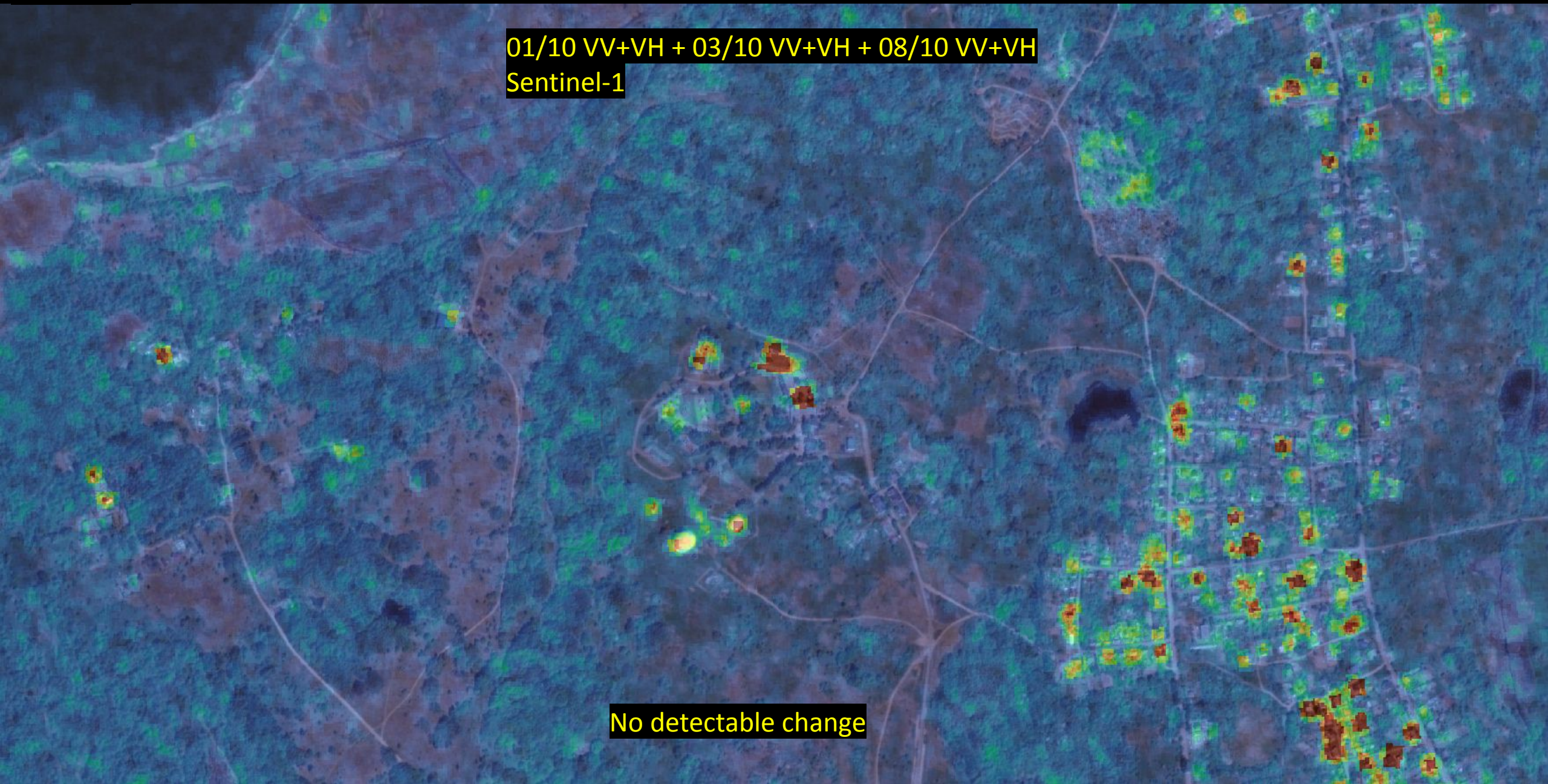
Google Earth

Imagery Date: 9/30/2018 54°28'51.82" N 19°55'35.46" E elev 25 m eye alt 2.30 km

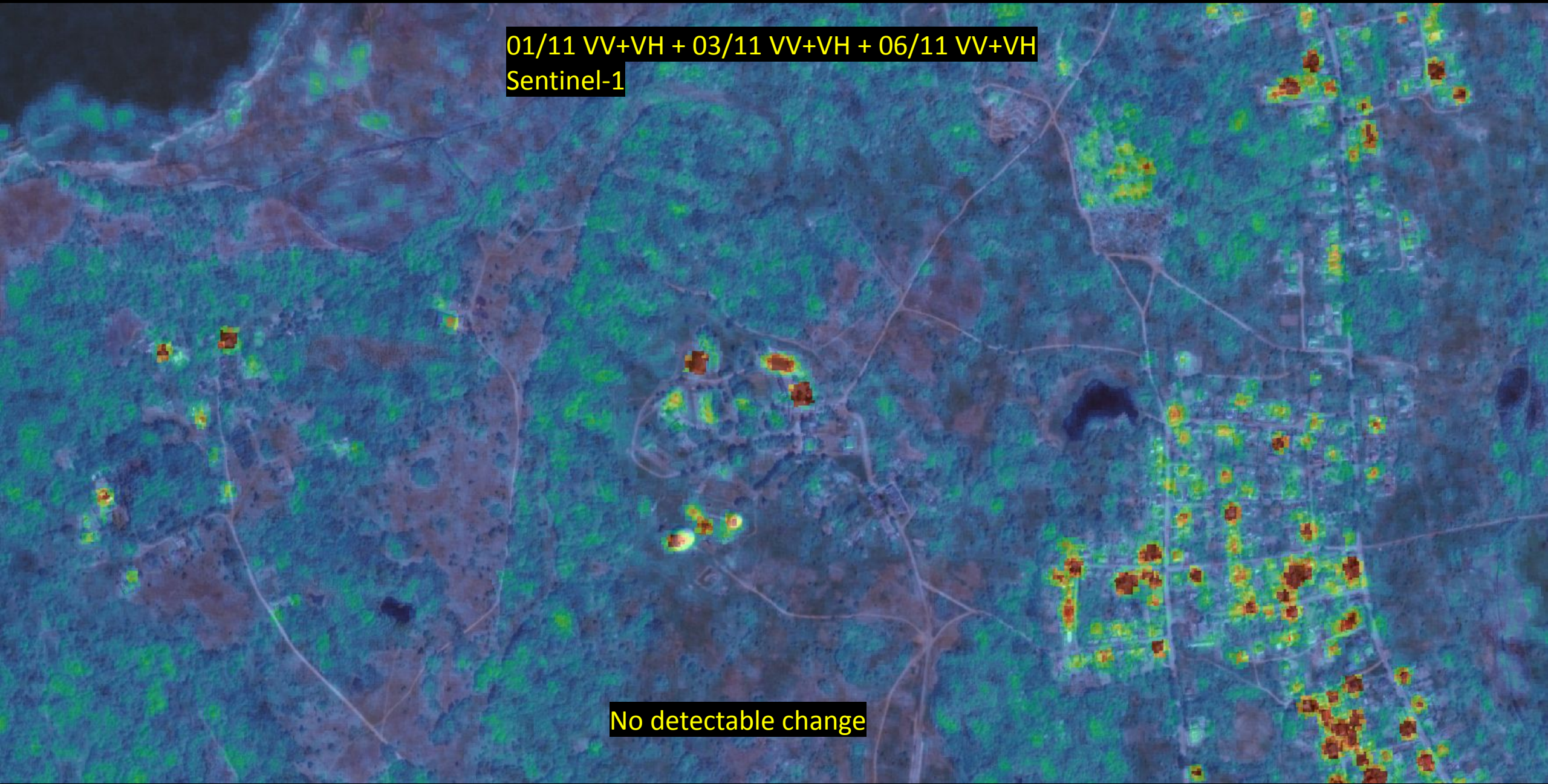
Location F

01/10 VV+VH + 03/10 VV+VH + 08/10 VV+VH
Sentinel-1

No detectable change



01/11 VV+VH + 03/11 VV+VH + 06/11 VV+VH
Sentinel-1



No detectable change

LOCATION G



Location G
54.8732058538, 19.9526808585



G - Looks normal

Image © 2023 Maxar Technologies



1985

Google Earth

Imagery Date: 11/16/2022 54°52'27.76" N 19°57'18.98" E elev 35 m eye alt 1.12 km

Location G

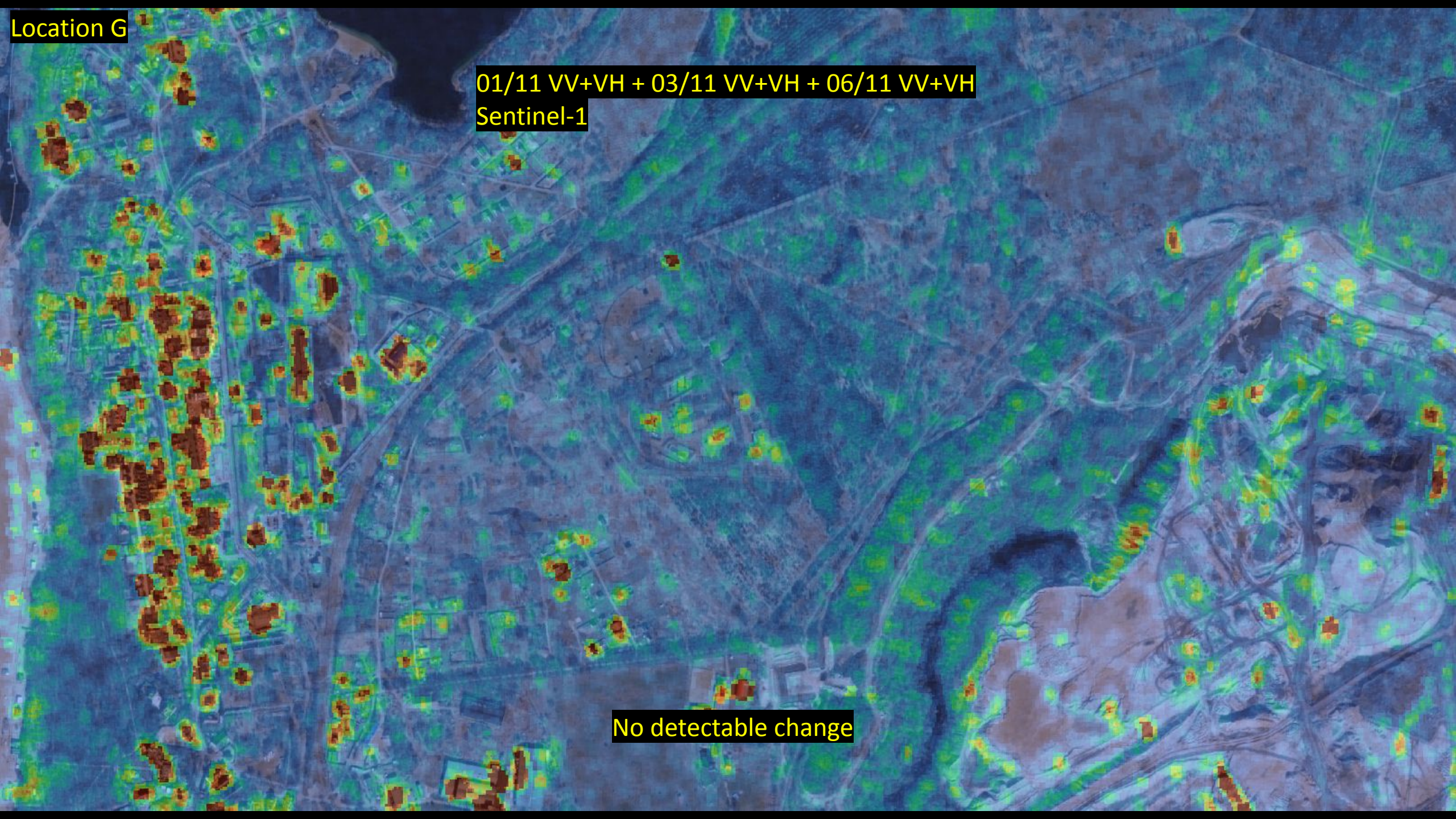
01/10 VV+VH + 03/10 VV+VH + 08/10 VV+VH
Sentinel-1



No detectable change

Location G

01/11 VV+VH + 03/11 VV+VH + 06/11 VV+VH
Sentinel-1



No detectable change

LOCATION H

Location H
55.043031685, 21.8751108115

H - Normal



233 m

Image © 2023 Airbus

Google Earth

1985

Imagery Date: 9/28/2021 55°02'33.73" N 21°52'40.11" E elev 40 m eye alt 1.00 km

Location H

EO Browser

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Remove all Add all pins Share Opacity

- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-09-28
Lat/Lon: 54.61, 21.78 | Zoom: 14
Opacity: 0.34
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-08
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.34
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.38
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-03
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-09-07
Lat/Lon: 54.48, 19.92 | Zoom: 16
Opacity: 1
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-09-07
Lat/Lon: 54.60, 19.85 | Zoom: 16
Opacity: 1

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No detectable change

Location H

EO Browser

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Discover Visualize Compare Pins

Remove all Add all pins Share Opacity

- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-09-28
Lat/Lon: 54.61, 21.78 | Zoom: 14
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-08
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-10-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-01
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.48
- Sentinel-1 AWS-IW-VVH: 7_SAR-URBAN
Date: 2023-11-03
Lat/Lon: 54.68, 21.01 | Zoom: 15
Opacity: 0.48
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-09-07
Lat/Lon: 54.48, 19.92 | Zoom: 16
Opacity: 1
- Sentinel-2 L2A: 1_TRUE_COLOR
Date: 2023-09-07
Lat/Lon: 54.60, 19.85 | Zoom: 16
Opacity: 1

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LOCATION I

Location 1
54.518333172, 20.6327122732

Normal



Image © 2023 Maxar Technologies



1985

Google Earth

Imagery Date: 10/23/2019 54°30'50.97" N 20°38'04.41" E elev 27 m eye alt 1.91 km

Location I

01/10 VV+VH + 03/10 VV+VH + 08/10 VV+VH
Sentinel-1

No detectable change



Location I

01/11 VV+VH + 03/11 VV+VH + 06/11 VV+VH
Sentinel-1

No detectable change

