Verifying Videos and Images

Aric Toler, Bellingcat

1) Key questions in video/image verification
    a) Where?
    b) When?
    c) Who?
    d) Why?
2) Metadata and digital forensics
3) Think like a faker

Key questions in image/video verification:

1) **Where?**

Determine through geolocation

2) **When?**

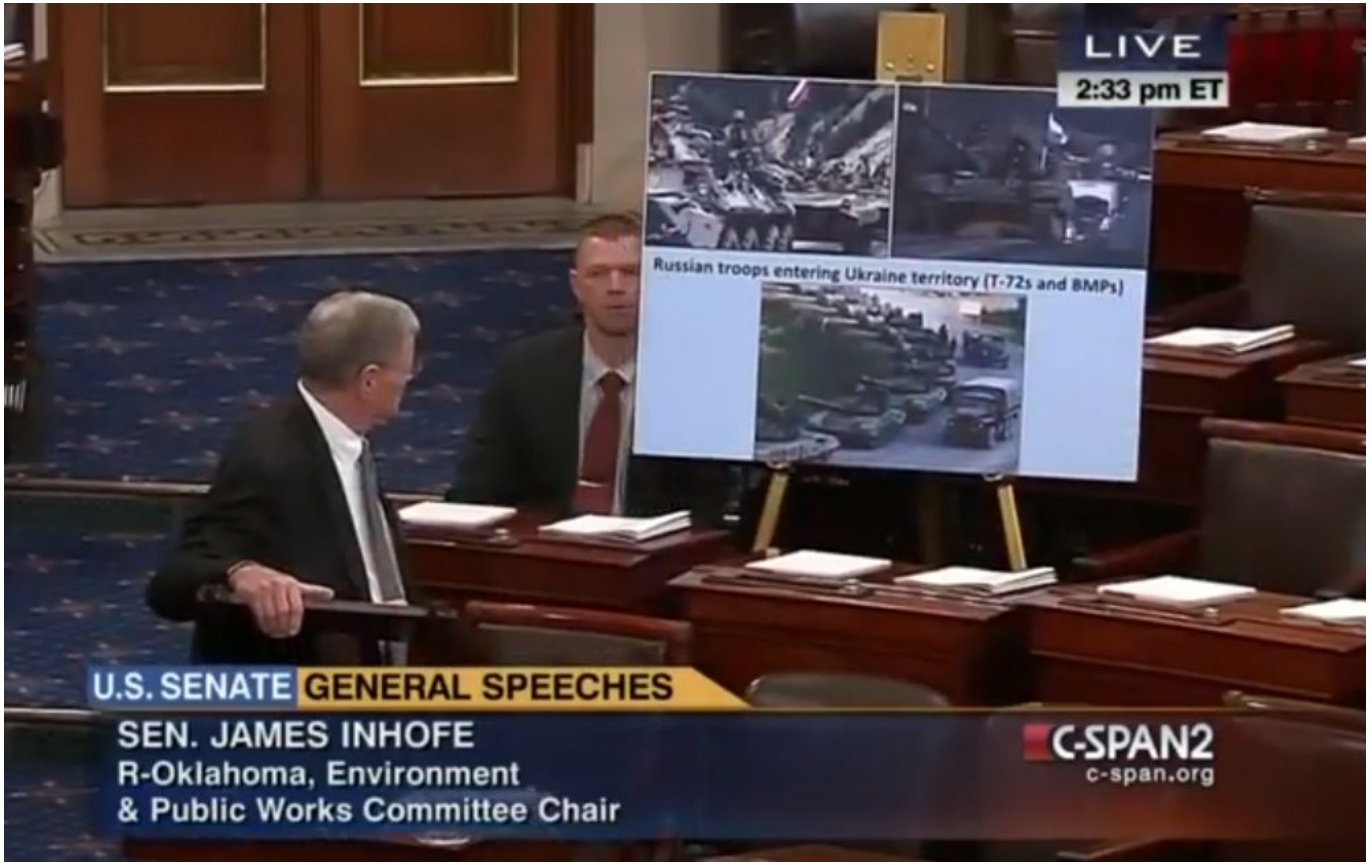
Determine (if possible) through shadows, weather, temporary details, context

3) **Who?**

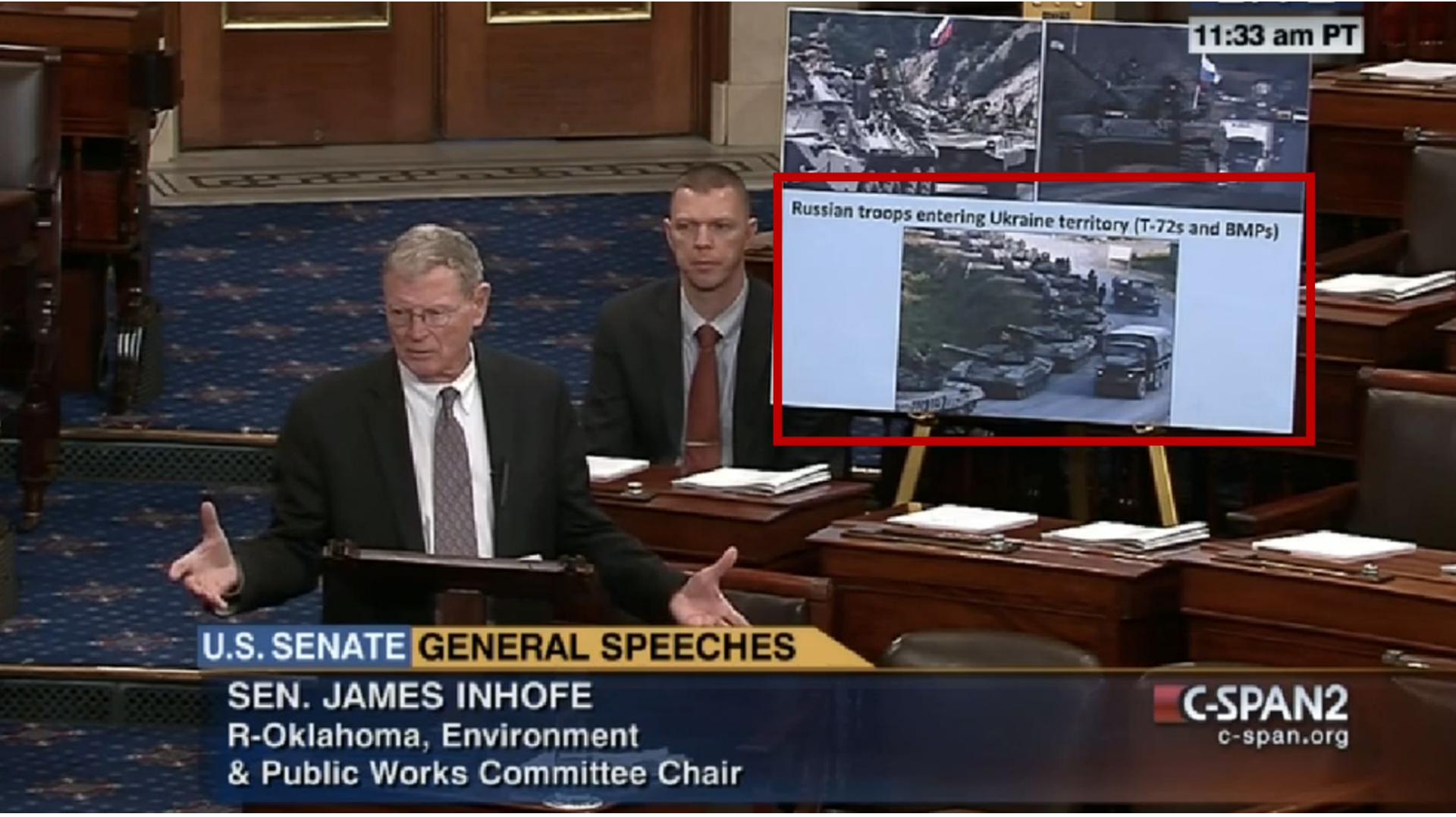
Determining first -- not most popular -- source

4) **Why?**

Determine motive



https://www.youtube.com/watch?v=0qyiGA4zIV4


11:33 am PT
Russian troops entering Ukraine territory (T-72s and BMPs)
U.S. SENATE GENERAL SPEECHES
SEN. JAMES INHOFE
R-Oklahoma, Environment
& Public Works Committee Chair
C-SPAN2
c-span.org

A column of Russian armoured vehicles moves along a road in South Ossetia, near the border with North Ossetia August 23 2008.

11:33 am PT
territory (T-72s and BMPs)
U.S. SENATE GENERAL SPEECHES
SEN. JAMES INHOFE
R-Oklahoma, Environment
& Public Works Committee Chair
C-SPAN2
c-span.org

Russian heavy armoured vehicles in the Ardon Valley , Russia, heading towards the Georgian border and South Ossetia on Saturday, Aug. 9, 2008. Russia sent hundreds of tanks and troops into the separatist province of South Ossetia and bombed Georgian towns Saturday in a major escalation of the conflict that has left scores of civilians dead and wounded. *(AP Photo / Mikhail Metzel)*

CLOSE ✕

Example: Riyadh Missile Defense

https://youtu.be/EzZLGEAh5CM

6,409 views
0:22 / 0:38

Search by image

Search Google with an image instead of text. Try dragging an image here.

Paste image URL | **Upload an image**

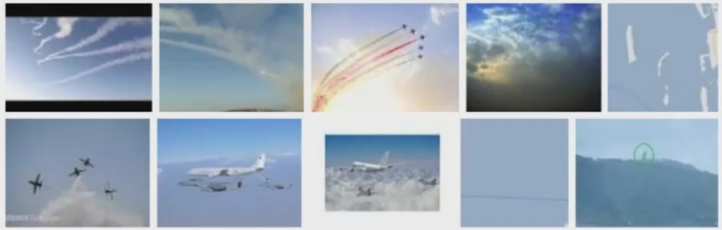
Choose File | No file chosen

Royal Saudi Strategic Missile Force - Wikipedia

https://en.wikipedia.org/wiki/Royal_Saudi_Strategic_Missile_Force

... branch of the Royal Saudi Armed Forces, responsible for commissioning long-range strategic missiles. The RSSMF formerly had its headquarters in an underground command facility in Riyadh– the capital of Saudi Arabia. The facility coordinated Saudi Arabia's advanced "Peace Shield" radar and air defense systems.

Visually similar images



Report images

Pages that include matching images

Saudi Air Defense Intercept Incoming Houthi Ballistic Missiles[News ...

https://www.youtube.com/watch?v=TLPaRTdxV5U

480 × 360 - Apr 24, 2017 - Saudi Air Defense Intercept Incoming Houthi Ballistic Missiles[News]. Thanks For Watching...! Help us 100000 Subcribe.Thanks =====

Saudi-led Coalition Intensifies Airstrikes on Houthis after Intercepting ...

https://article.wn.com/.../Saudiled_Coalition_Intensifies_Airstrikes_on_Ho...

480 × 360 - Nov 5, 2017 - Saudi Arabia and its allied forces launched a new wave of airstrikes on targets in neighboring Yemen, where Riyadh has been leading a military alliance against ... Saudi Arabia Missile: Air Force intercepts missile near Riyadh ... Saudi Air Defense Intercept Incoming Houthi Ballistic Missiles[News].

Details of missile (Ger - ConBiVe

www.conbive.org/+missile+(Ger

480 × 360 - FIM-92 Stinger Missile Target Shooting Live-Fire. U.S. Marines with 2nd Low Altitude Air Defense Battalion conducted a missile live-fire training exercise at Onslow Beach, Camp Lejeune, N.C.The training was ... picjumbo.com_HNCK4067 ...

Vote No on : قاومت ایر

www.virtantiq.com/قاومت+ایر/ Translate this page

480 × 360 - Houthi missiles intercepted over Asir region. Patriot Missiles of the Royal Saudi Air Defense Forces intercept ballistic missiles fired by Yemen's Houthi insurgents toward the

Part of: Saudi Ministry of Defense (1955), Joint Staff Presidency (1985)

People also search for

View 15+ more

Royal Saudi Air Force

Saudi Arabian Army

Armed Forces of Saudi Ara...

Royal Saudi Navy

Saudi Arabian National...

Feedback

Saudi Air Defense Intercept Incoming Houthi Ballistic Missiles[News]

giuli eegiu

Subscribe 5

874 views

Add to Share More

1 1

Published on Apr 24, 2017

Saudi Air Defense Intercept Incoming Houthi Ballistic Missiles[News].
Thanks For Watching...!
Help us 100000 Subcribe.Thanks

SHOW MORE

Youtube DataViewer

tps://www.youtube.com/watch?v=TLPaRTdxV5U Go Clear

© 2017 Amnesty International USA | 5 Penn Plaza, New York, NY 10001 | 212.807.8400

amnestyusa.org/citizenevidence

Saudi Air Defense Intercept Incoming Houthi Ballistic Missiles[News]

Saudi Air Defense Intercept Incoming Houthi Ballistic Missiles[News]. Thanks For Watching...! Help us 100000 Subcribe.Thanks =====

Video ID: TLPaRTdxV5U
Upload Date (YYYY/MM/DD): 2017-04-24
Upload Time (UTC): 11:41:10 (convert to local time)

Thumbnails:

reverse image search

reverse image search

reverse image search

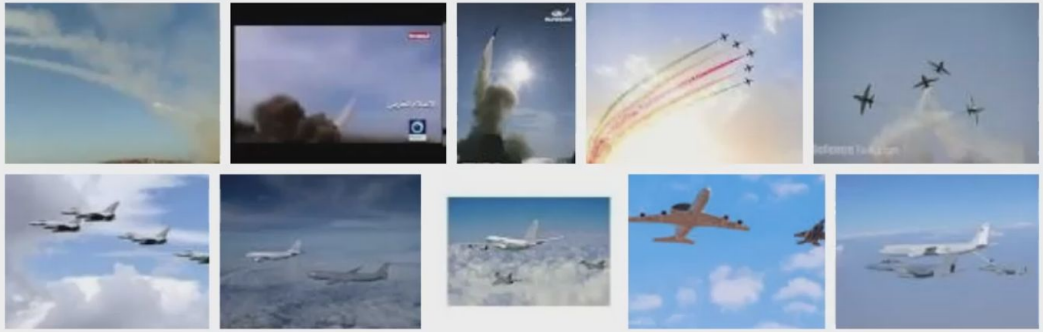
reverse image search

Royal Saudi Strategic Missile Force - Wikipedia

https://en.wikipedia.org/wiki/Royal_Saudi_Strategic_Missile_Force

... branch of the Royal Saudi Armed Forces, responsible for commissioning long-range strategic missiles. The RSSMF formerly had its headquarters in an underground command facility in Riyadh– the capital of Saudi Arabia. The facility coordinated Saudi Arabia's advanced "Peace Shield" radar and air defense systems.

Visually similar images



Report images

Pages that include matching images

Houthi missiles intercepted over Asir region - YouTube

https://www.youtube.com/watch?v=N1WGj9M6-l8

480 × 360 - Mar 28, 2017 - Patriot Missiles of the Royal Saudi Air Defense Forces intercept ballistic missiles fired by Yemen's Houthi insurgents toward the southern Saudi cities of Ab...

Royal Saudi Air Defense - World News

https://wn.com/Royal_Saudi_Air_Defense

Geolocation:
Where was a photograph/video shot?

Determine the location of a photograph or video by finding identifiable features in a photographic/video, then match them to the same features in another photograph/video or satellite image.

Geolocation:
Where was a photograph/video shot?

Determine the location of a photograph or video by finding identifiable features in a photographic/video, then match them to the same features in another photograph/video or satellite image.

Source Material from YouTube, social media, etc...

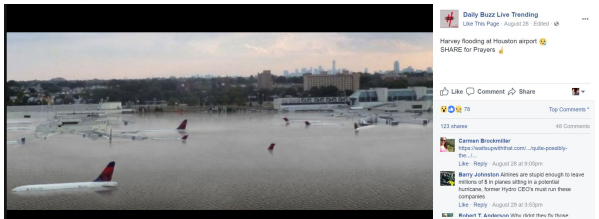
Houston Harvey Flood - Meyerland Neighborhood - August 27 2017 - Front Yard Time Lapse

RoismanDani

5 days ago • 130,436 views

Time lapse of the live stream I had showing the front yard. The street corner disappeared at Saturday 8/26/2017 around 8:00PM, ...

NEW



Geolocation:
Where was a photograph/video shot?

Determine the location of a photograph or video by finding identifiable features in a photographic/video, then match them to the same features in another photograph/video or satellite image.

Source Material from YouTube, social media, etc...

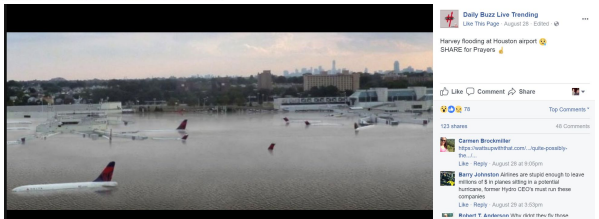
Houston Harvey Flood - Meyerland Neighborhood - August 27 2017 - Front Yard Time Lapse

RoismanDani

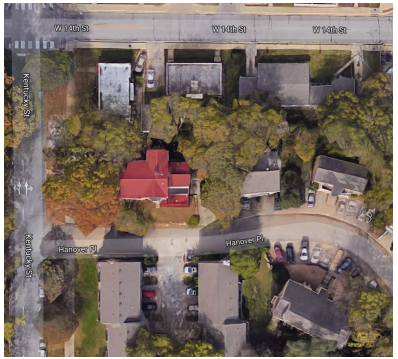
5 days ago • 130,436 views

Time lapse of the live stream I had showing the front yard. The street corner disappeared at Saturday 8/26/2017 around 8:00PM, ...

NEW



Cross-reference materials for geolocation



Source material

Google Street View

Street-Level Imagery

- **Google Street View** (All over!)
- **Bing Streetside** (US, UK, France, Spain)
- **Yandex Panorama** (Russia/Former Soviet Union)
- **MapJack** (West Coast US, Sweden, Thailand...)
- Some countries and cities have specialized services

Source material

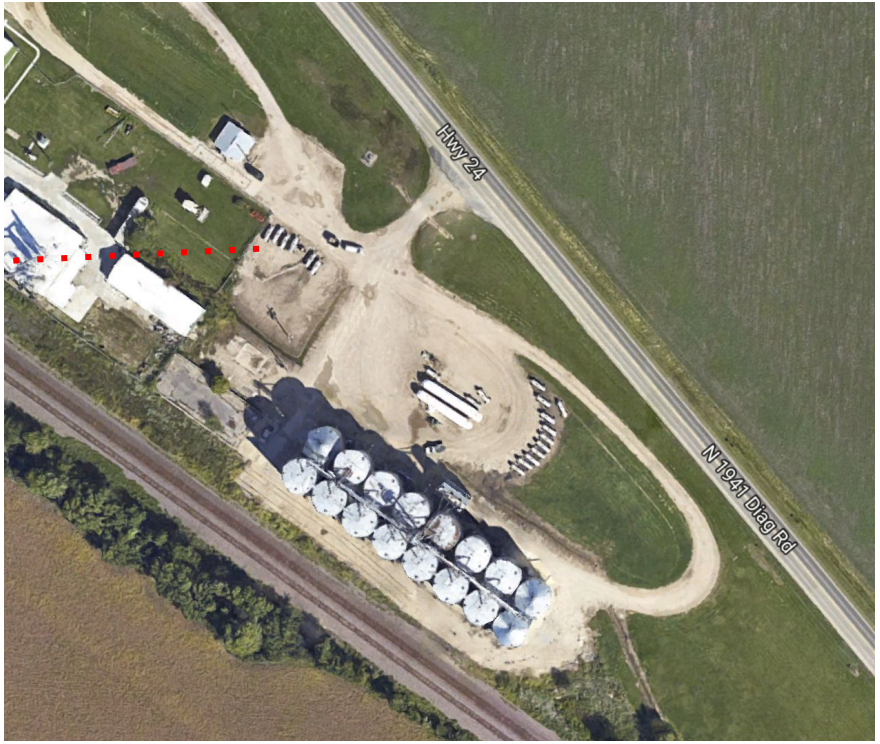
Satellite imagery

Source material

Satellite imagery

Source material

Satellite imagery



Source material

Satellite imagery

Source material

Satellite imagery

(Free) Satellite Imagery

- **Google Earth** (historical imagery available)
- **Google Maps** (no historical imagery)
- **Yandex Maps**
- **Bing Maps**
- **Wikimapia** (combines multiple services)
- **Terraserver** (only previews are free)

Source material

Other Photo/Video

Geotagged Photos/Videos

- **Google Earth** (turn on “photos” option)
- **Panoramio** (shutting down soon, integrated into Google Earth)
- **Yandex Maps** (geotagged photos included)
- **Echosec** ($$$, shows geotagged Instagram/VK/Twitter posts)
- **YouTube** (search street names for dash cams)

Why geolocate?

The International Criminal Court (ICC) issued an arrest warrant for a Libyan commander for unlawful executions and war crimes. This warrant was issued **entirely based off of evidence from social media**.

Why geolocate?

The International Criminal Court (ICC) issued an arrest warrant for a Libyan commander for unlawful executions and war crimes. This warrant was issued **entirely based off of evidence from social media**.

Why geolocate?

The International Criminal Court (ICC) issued an arrest warrant for a Libyan commander for unlawful executions and war crimes. This warrant was issued **entirely based off of evidence from social media**.

Why geolocate?

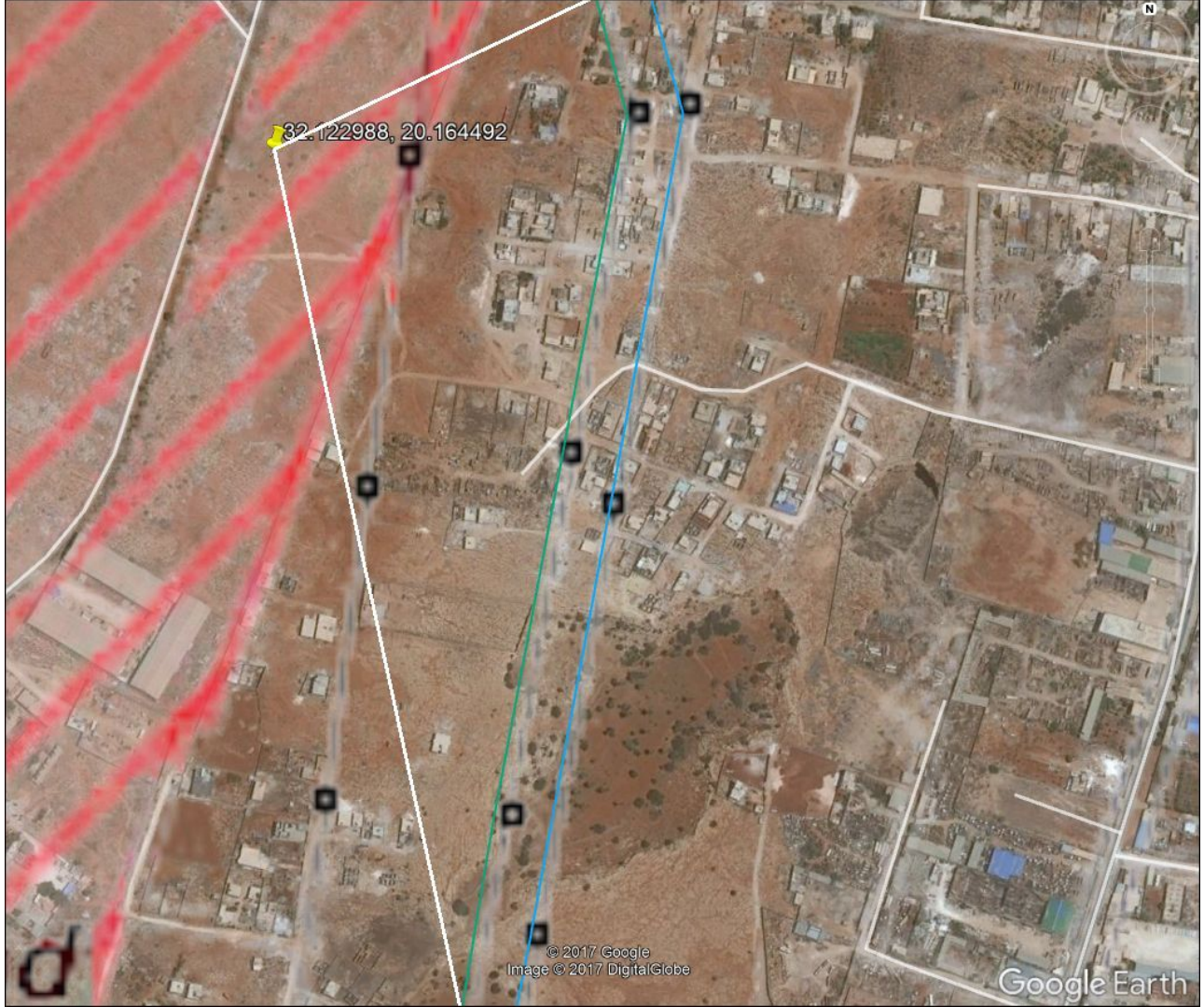
The International Criminal Court (ICC) issued an arrest warrant for a Libyan commander for unlawful executions and war crimes. This warrant was issued **entirely based off of evidence from social media**.

Why geolocate?

The International Criminal Court (ICC) issued an arrest warrant for a Libyan commander for unlawful executions and war crimes. This warrant was issued **entirely based off of evidence from social media**.

Why geolocate?

The International Criminal Court (ICC) issued an arrest warrant for a Libyan commander for unlawful executions and war crimes. This warrant was issued **entirely based off of evidence from social media**.


32.122988, 20.164492
© 2017 Google
Image © 2017 DigitalGlobe
Google Earth

Why geolocate?

The International Criminal Court (ICC) issued an arrest warrant for a Libyan commander for unlawful executions and war crimes. This warrant was issued **entirely based off of evidence from social media**.

Not only does geolocating a video verify that the events really took place, it also solidifies evidence that can be used in criminal investigations. The ICC was not able to geolocate this video on their own, but a crowdsourcing campaign ran by Bellingcat provided coordinates for the video -- proving that it really did take place. **The video was filmed at a military compound controlled by this Libyan commander**, in between Benghazi and its airport.

“Temporal Location”

When was a photograph/video shot?

Determine the date/general time of a photograph or video by finding time-specific details, such as weather or temporary features (e.g. billboards), or determine a more precise time* by analyzing visible shadows.

Will likely not give you 100% verification, but will let you quickly sniff out fakes.

*Exact location and approximate date needed

Cars Underwater In Hurricane Harvey Houston & Texas 2017

LowMileage

Subscribe 108K

48,263 views

Add to Share More

339 41

Published on Sep 2, 2017

Catastrophic flooding at a historic level was the result of Hurricane Harvey.

SHOW MORE

3:38 / 12:26

Pages that include matching images

Houston flooding: At least 5 dead - CNN - CNN.com

www.cnn.com/2016/04/18/us/houston-texas-flooding/index.html

1600 × 900 - Apr 18, 2016 - More than a foot of rain in some places **flooded** low-lying areas across the **Houston** ... "**Houston** residents should avoid travel at all costs **today**.

Tropical storm Harvey brings deadly floods to Houston - YouTube

https://www.youtube.com/watch?v=b7qESUrBtk0

168 × 94 - Aug 27, 2017 - Tropical storm Harvey has unleashed catastrophic **flooding in Houston**, the largest city in the US state of Texas, turning streets into raging rivers ...

Houston Flooding Is Deadly as Harvey Lingers - YouTube

https://www.youtube.com/watch?v=mAL08g3Sycg

168 × 94 - Aug 27, 2017 - Once a hurricane Harvey, now a tropical storm, pummeled **Houston** and the surrounding region, bringing catastrophic **flooding** and killing at ...

Watch This Annoyed Reporter Rescue A Man From A Sinking Car On ...

jalopnik.com/watch-this-annoyed-reporter-rescue-a-man-from-a-sinking-1...

1870 × 1161 - Apr 18, 2016 - KTRK **Houston's** news reporter Steve Campion was live on the scene covering **flooding** going on in the area, when he saw two cars drive ...

VIDEO: Houston Reporter Jumps Into Flood Water To Save Driver

https://weather.com/.../houston-reporter-jumps-into-flood-water-to-save-driv...

980 × 551 - Apr 19, 2016 - A KTRK reporter out of **Houston** Texas jumped into the **flood** waters to help pull a driver to safety before his car got submerged.

Watch This Annoyed Reporter Rescue A Man From A Sinking Car On Live TV

Michael Ballaban

4/18/16 10:56am

Filed to: FLOODS

355.5K 779 47

Temporary Details

Temporary Details

Temporary Details

Temporary Details

Temporary Details

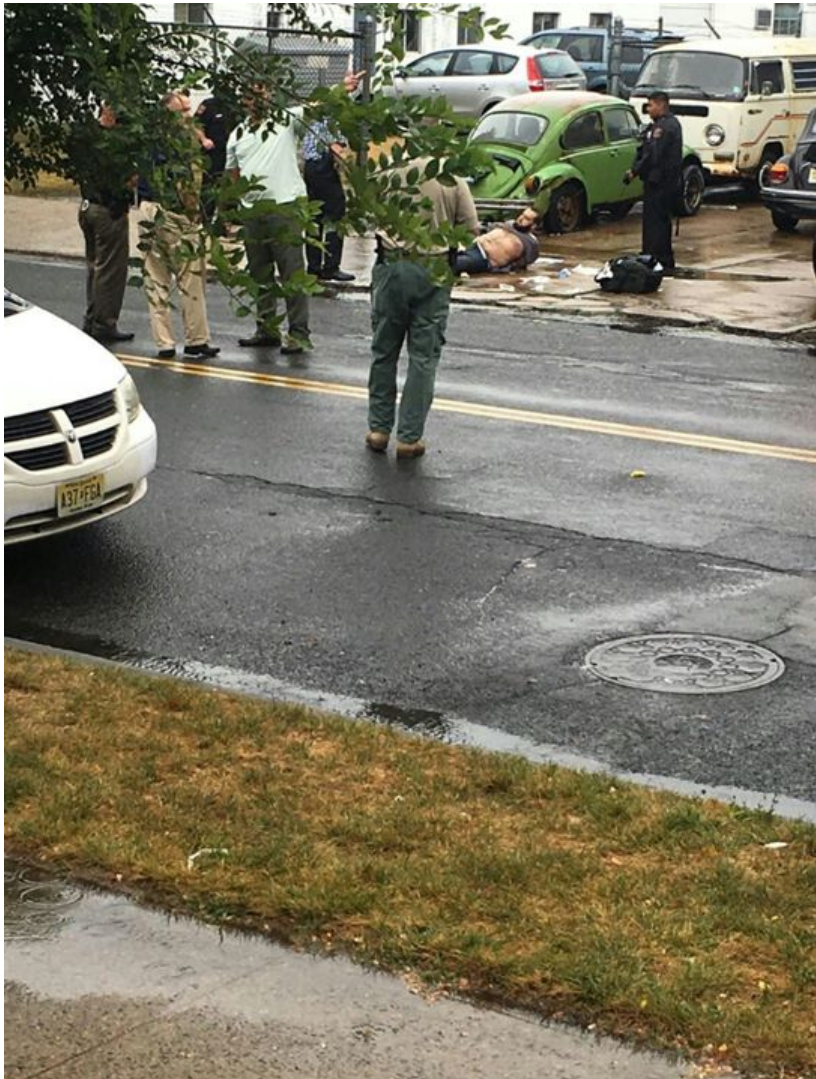
Corrina Drost
@Corrina_Drost

Follow

Ahmed Khan Rahami, bombing suspect, shot in Linden, NJ

Supposed eye witness to arrest of Manhattan / New Jersey bombing suspect -- other than geolocation, how do we verify that this image could be real?

Arrested on September 19, 2016



WolframAlpha computational knowledge engine

Enter what you want to calculate or know about:

weather in linden, nj on september 19, 2016

Web Apps | Examples | Random

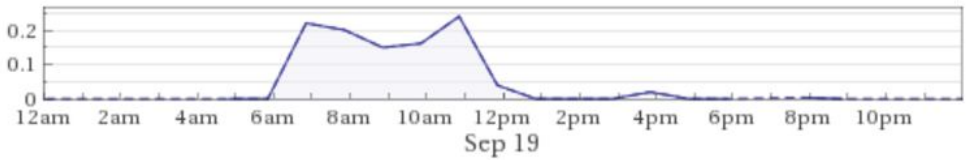
Recorded weather for Linden, New Jersey:

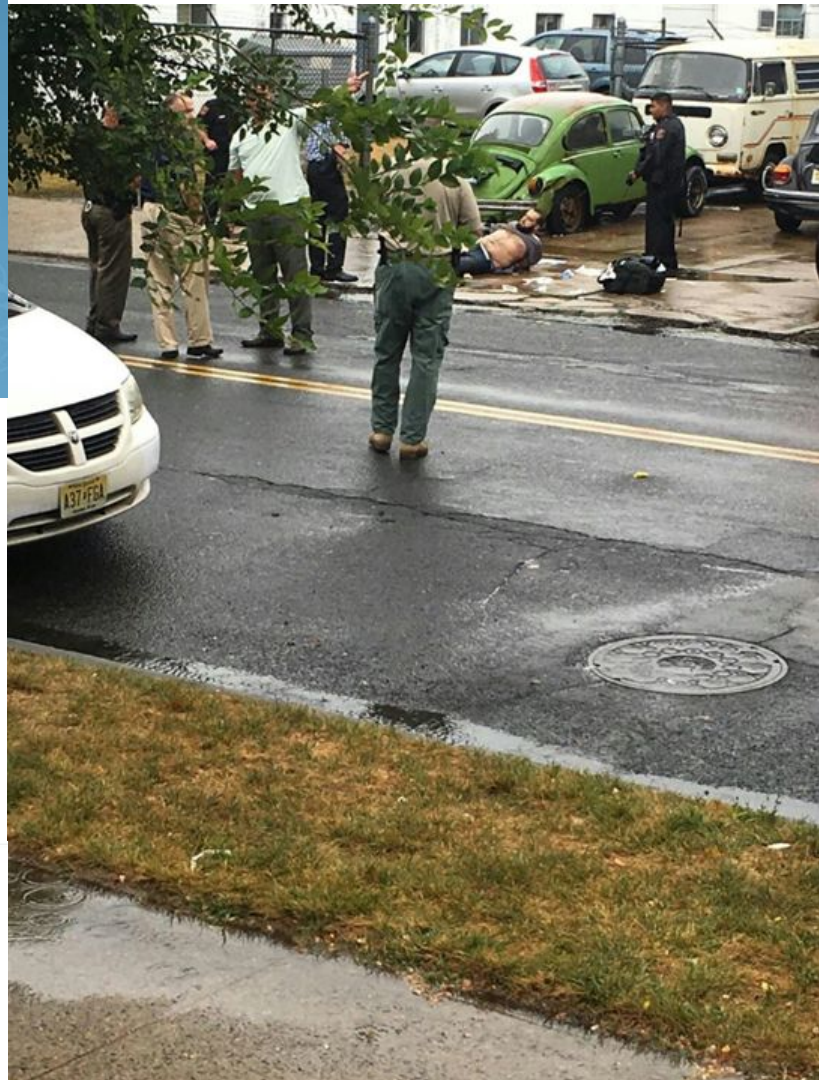
Show metric | More

time range	day of Monday, September 19, 2016
temperature	(71 to 77) °F (average: 73 °F)
conditions	rain, thunderstorm, overcast, cloudy
relative humidity	(80 to 94)% (average: 87%)
wind speed	(0 to 11) mph (average: 5 mph)

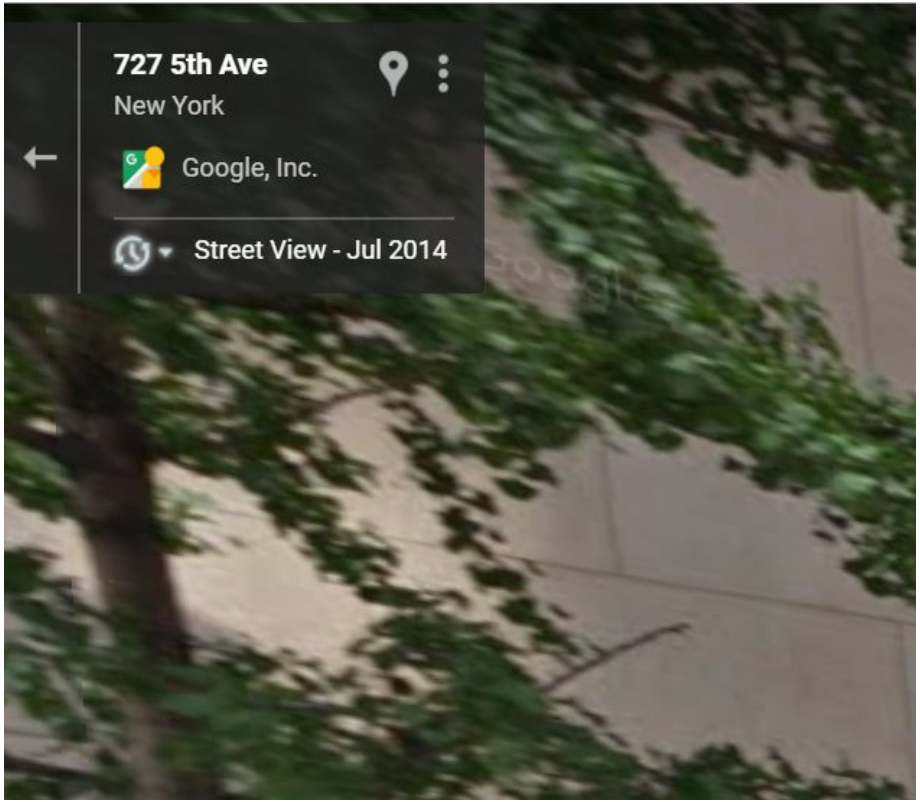
Units »

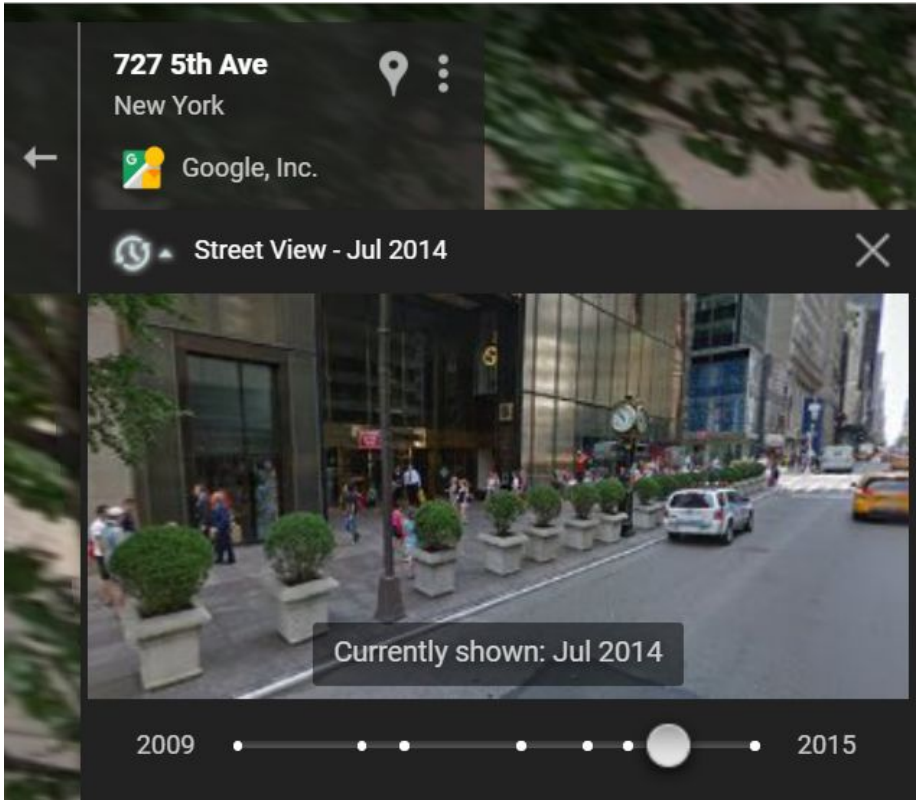
Precipitation rate:





Timeline

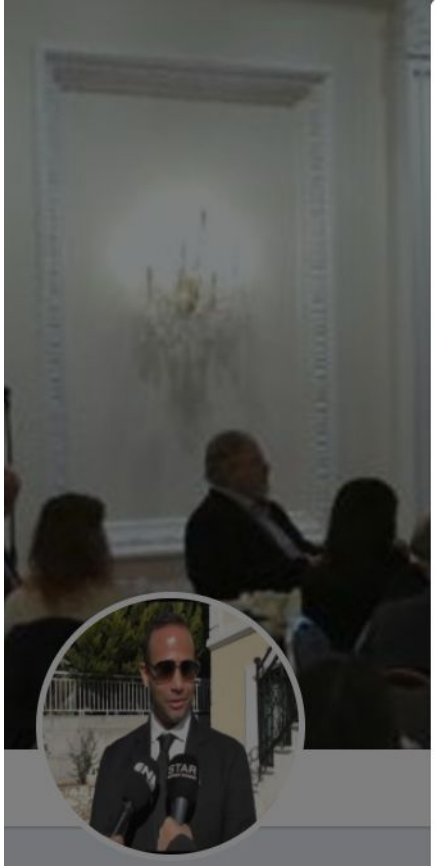

727 5th Ave
New York
Google, Inc.
Street View - Jul 2014


727 5th Ave
New York
Google, Inc.
Street View - Jul 2014
Currently shown: Jul 2014
2009
2015

725 5th Ave
New York
Google, Inc.
Street View - Jul 2011
Currently shown: Jul 2011
2008
2016
TRUMP TOWER
TRUMP TOWER
The Plaza
Fifth Avenue
Google

725 5th Ave
New York
Google, Inc.
Street View - Nov 2016
Currently shown: Nov 2016
2008
2016
TRUMP TOWER
OPEN TO THE PUBLIC
8 AM to 10 PM
The Plaza
Fifth Avenue
Landmark
Google

725 5th Ave
New York
Google, Inc.
Street View - Sep 2017
Currently shown: Sep 2017
2007
2017
TRUMP TOWER
The Plaza
Fifth Avenue
Google



George Papadopoulos
@GeorgePapa19

Former advisor to President Trump and Secretary of Housing and Urban Development, Dr. Ben Carson. University College London grad. Energy advisor

George Papadopoulos
@GeorgePapa19

Follow

#business

2:48 AM - 25 Oct 2017

217 Retweets **362** Likes

215 217 362

July 2014

Papadopoulos photo

July 2014

Papadopoulos photo

May 2015

Papadopoulos photo

July 2014

Papadopoulos photo

March 2017

Papadopoulos photo

Digital Sundials

Using shadows to determine a specific time

If you know **exactly** where a photograph or video was taken, the approximate date, and there are clear shadows visible, you can often determine the approximate time of the source material.

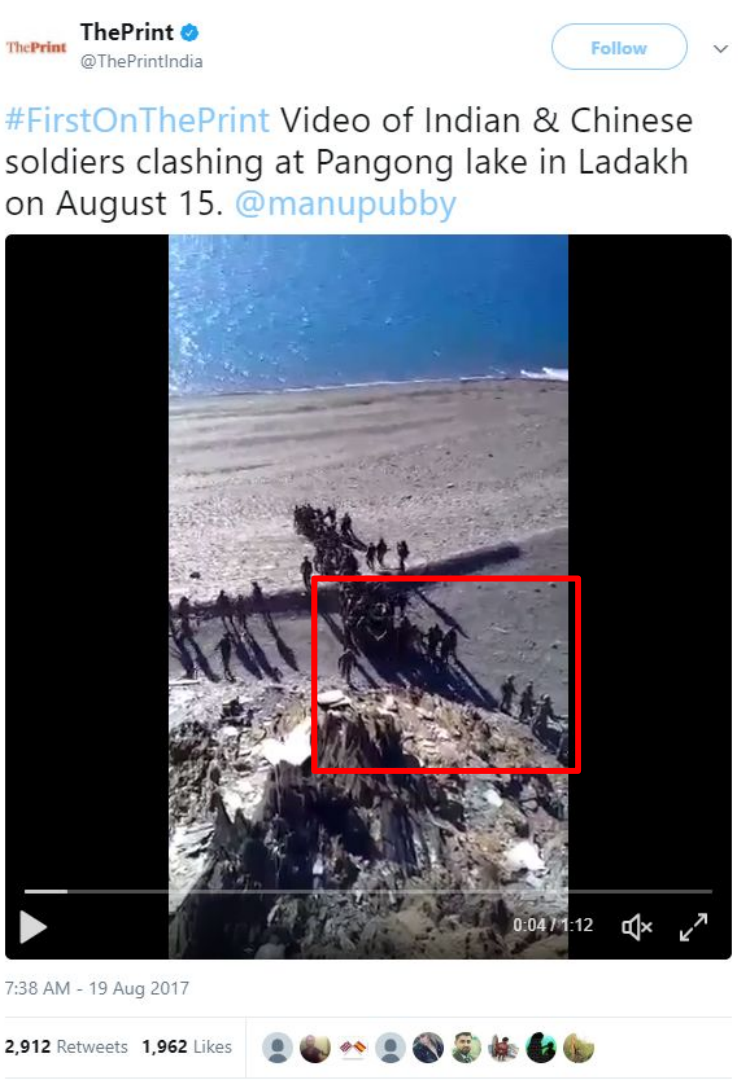
Use Suncalc.org to place the shadow visible in photograph/video, and then adjust to match source material.

Don’t forget to adjust for time zones!

Reported skirmish between Indian and Chinese soldiers at a lake.

Alleged time: August 15, 7:30am

Shadows seem to be perpendicular to the shore, visible paths



Satellite image
July 14, 2017

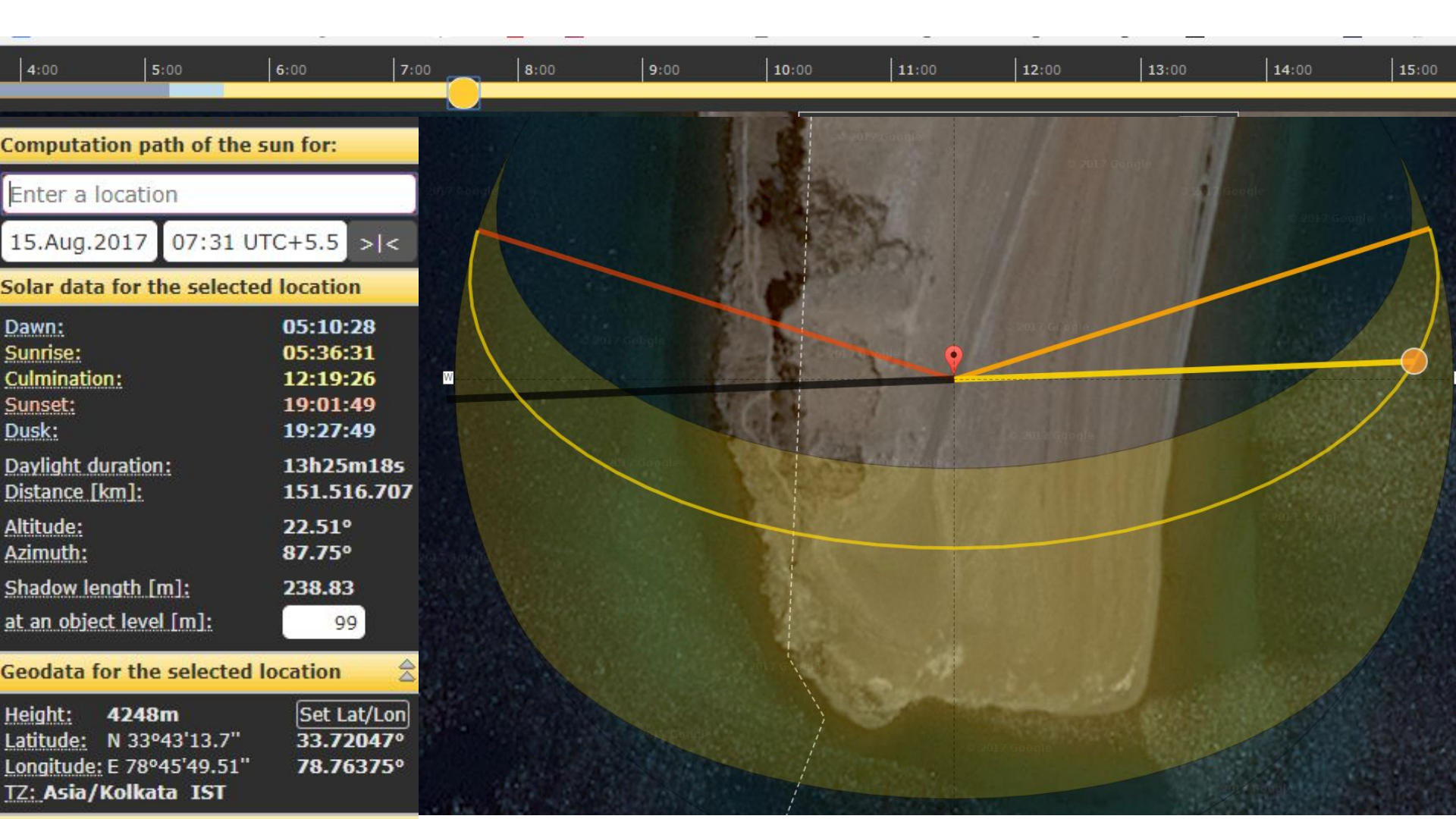
Satellite image
July 14, 2017

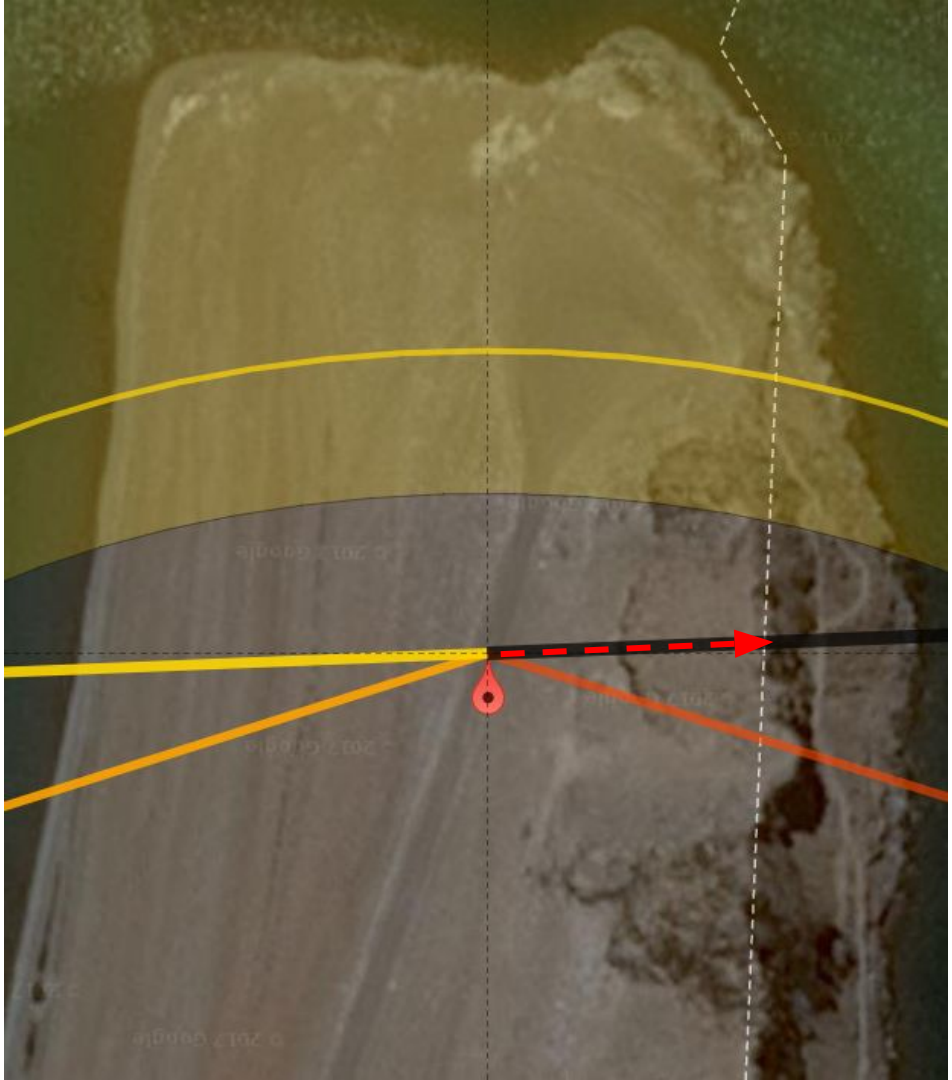
Satellite image
July 14, 2017

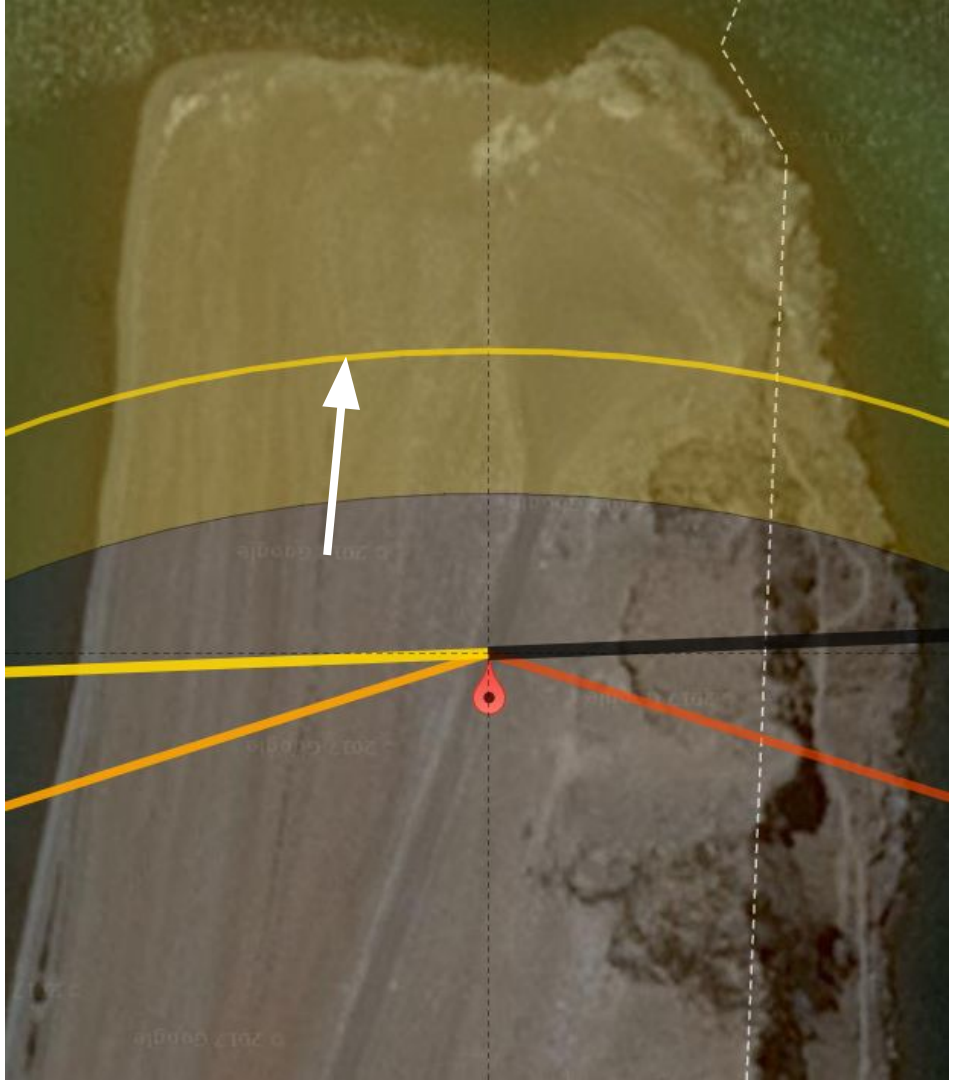
Satellite image
July 14, 2017

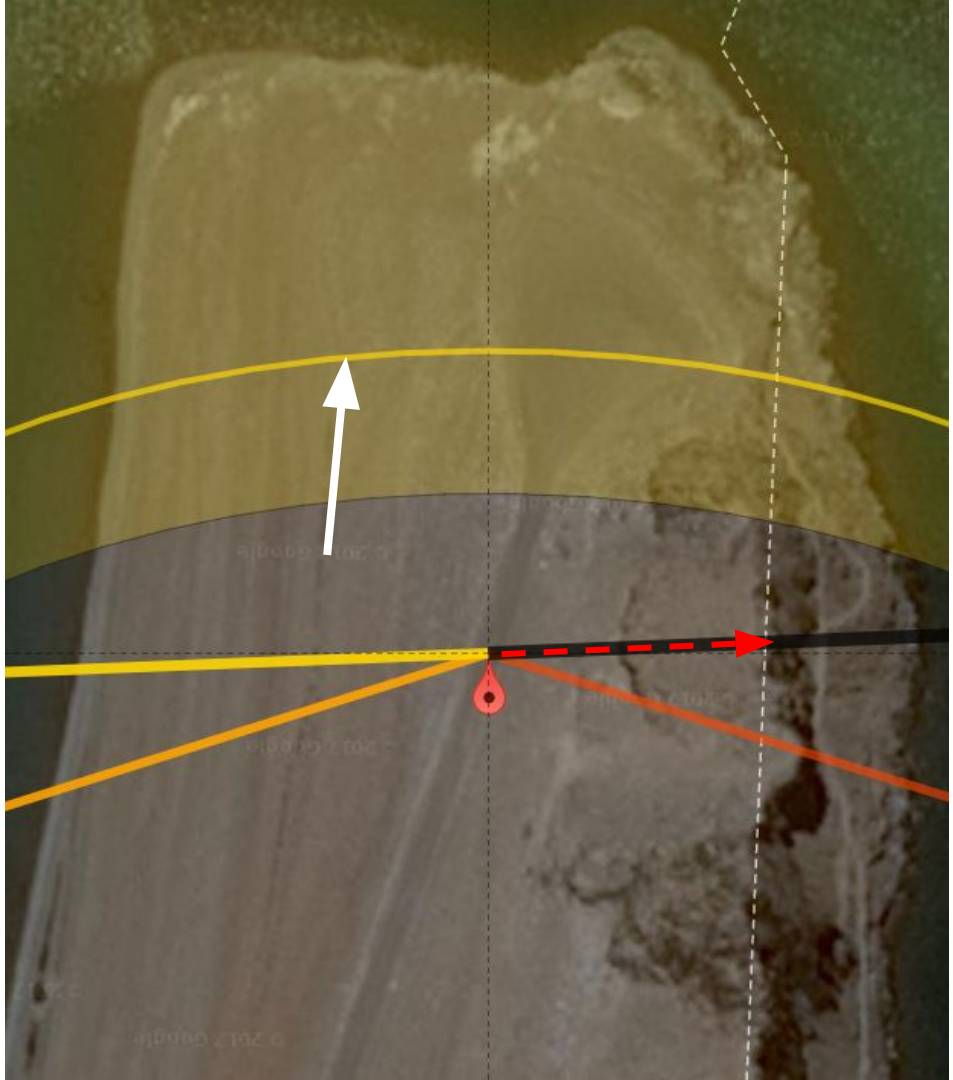
Satellite image
July 14, 2017

Satellite image
July 14, 2017


4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
Computation path of the sun for:
Enter a location
15.Aug.2017
07:31 UTC+5.5
>|<
Solar data for the selected location
Dawn: 05:10:28
Sunrise: 05:36:31
Culmination: 12:19:26
Sunset: 19:01:49
Dusk: 19:27:49
Daylight duration: 13h25m18s
Distance [km]: 151.516.707
Altitude: 22.51°
Azimuth: 87.75°
Shadow length [m]: 238.83
at an object level [m]: 99
Geodata for the selected location
Height: 4248m
Set Lat/Lon
Latitude: N 33°43'13.7" 33.72047°
Longitude: E 78°45'49.51" 78.76375°
TZ: Asia/Kolkata IST
W







Who and Why?

We have a smaller digital toolset to establish who took a photograph or video, and why they did it.

Who and Why?

We have a smaller digital toolset to establish who took a photograph or video, and why they did it.

You can make some basic digital efforts, such as finding the social media profiles of the supposed author of a photograph/video, and then following up on potential motivations.

Who and Why?

We have a smaller digital toolset to establish who took a photograph or video, and why they did it.

You can make some basic digital efforts, such as finding the social media profiles of the supposed author of a photograph/video, and then following up on potential motivations.

While verification is important, it is also vital to figure out the **real** author of photographs or videos - especially with the rise of licensing services for viral photographs and videos from social media (Storyful, Viralhog, Jukin Media, etc.)

Metadata and Digital Forensics

Some interesting capabilities, but ultimately limited

Metadata can be useful for verifying photographs and videos straight from a device, but this metadata is lost when files are shared or sent through social networks or messaging applications.

If you want to receive a photograph and retain metadata, have it sent directly via email or MMS -- not Facebook chat, Telegram, Twitter, etc.

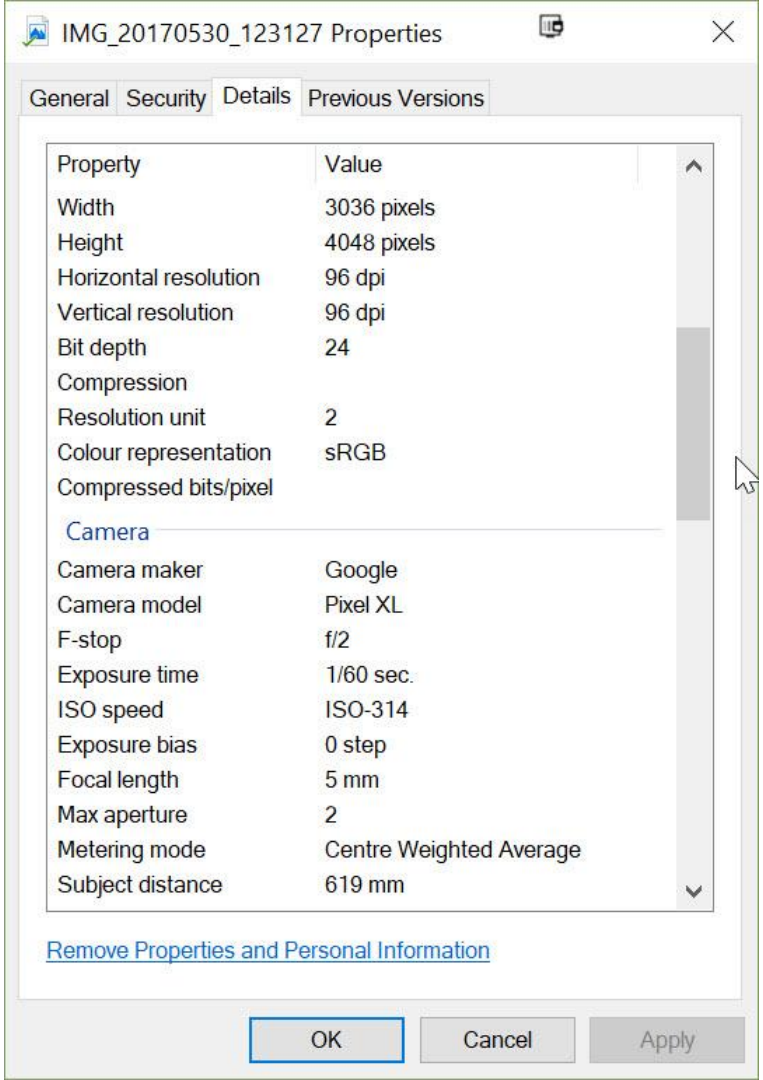
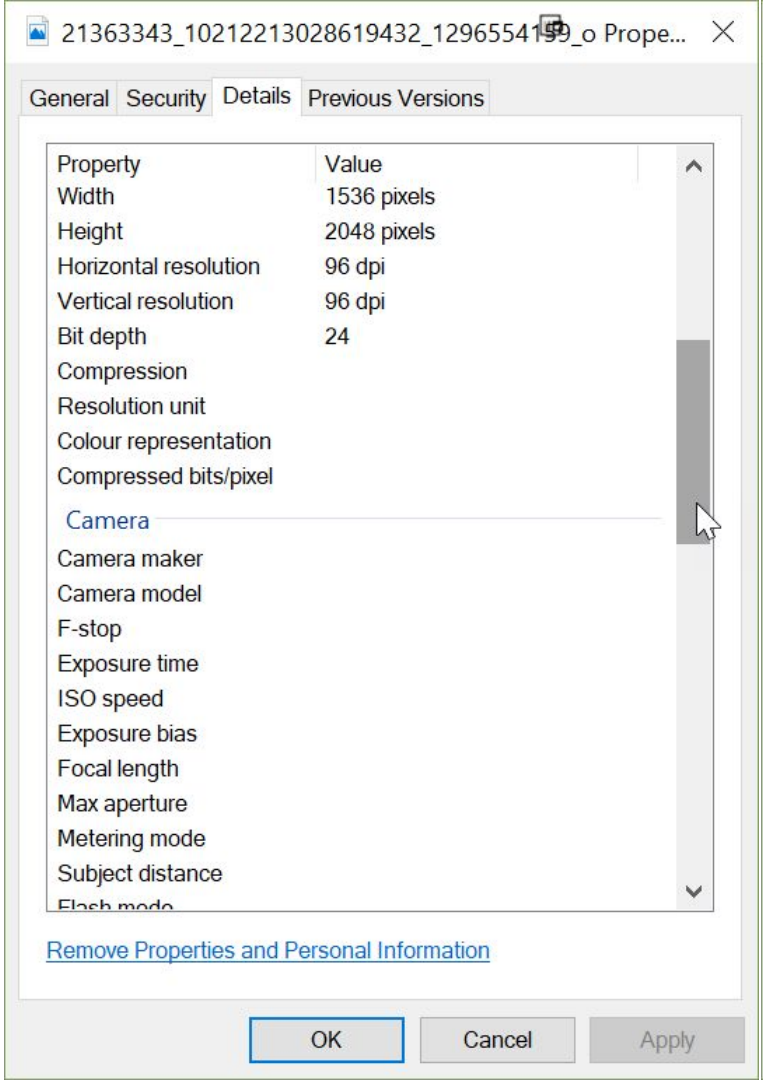
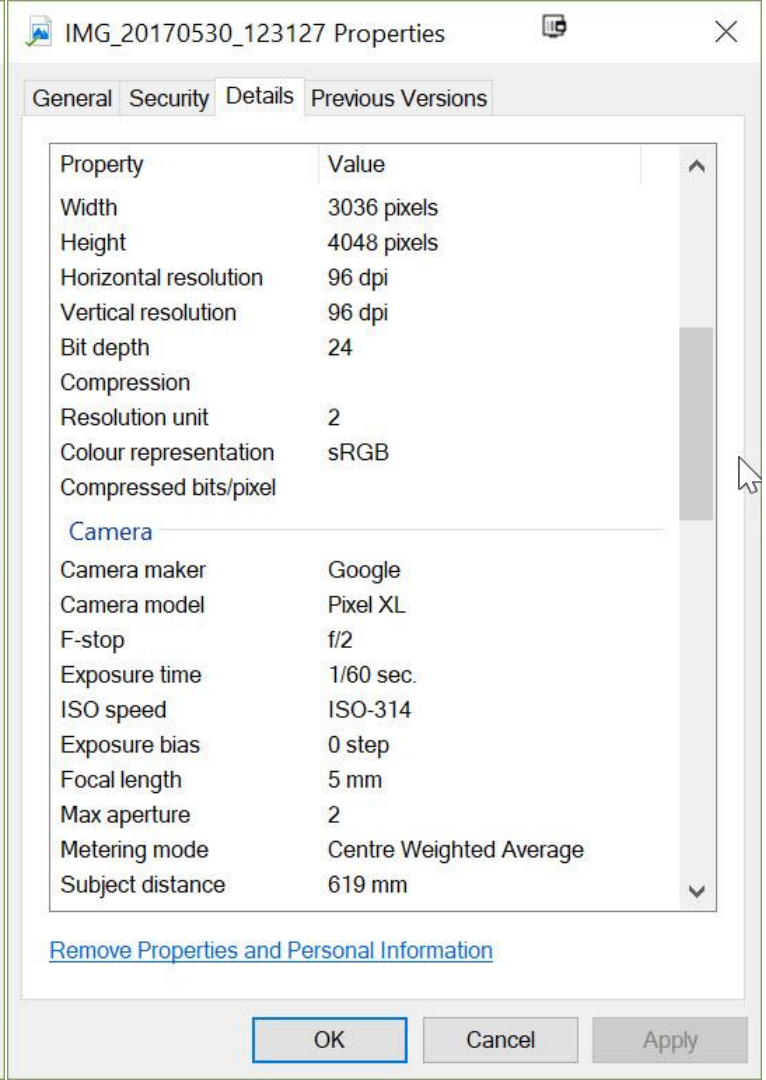


Photo sent via Facebook (left)

vs.

Photo taken directly from phone (right)





imageedited.com

Is Your Image Edited?

Analyze File

Drag image here to test if it is edited or photoshopped.

Exif and pixel tests tell if the photo is original or modified.

Exif Viewer shows the full raw exif data for your image.

For full image analysis, contact us for pricing.

Image Edited?

Probably

2017-09-08_8-42-07.jpg

Pixels only match software editors

Test another image · Show Exif information · Send Us Feedback

>

Possible Image Sources

Based on the pixels, this image could have been created with:

software: **IMatch**

Limits of naked-eye analysis

We may think we are good at finding fake photographs, but often we come up short. Also, freely available, easy-to-use digital analysis is difficult to come by.

© Hany Farid

Think Like a Faker

Creative verification to win the fake news arms race

https://www.youtube.com/watch?v=jbJIRgpVExI

B.o.E Combat Airsoft Night Operations April 25th 2009

TAS801

Subscribe 12K

1,110,726 views

Add to Share More 4,195 162

Published on Apr 27, 2009

Footage of Team Black ops Elite and company performing night maneuvers in the utah desert, captured with PVS-14s. Like our facebook page "Utah Airsoft" For more information about our operations!

SHOW MORE

Бой Карабах (Karabakh fight night)

Анти Каратель

Subscribe

1,514 views

Add to Share More 8 4

Published on Apr 4, 2016

Notice Age-restricted video (based on Community Guidelines)
Category Gaming

SHOW MORE

https://www.youtube.com/watch?v=yao0ETXxTso

Ночной бой в нагорном карабахе ВОТ ЛИЦО ВОЙНЫ где есть страх и боль 03 04 2016 ★★★★★

Mench A

Subscribe 289

6,770 views

Add to Share More

22 6

Published on Apr 13, 2016

Category People & Blogs

License Standard YouTube License

https://www.youtube.com/watch?v=z6jLbrj-VOc

NIGHT FIGHT KURDS VS ISIS RATS

W worldtechvideos Subscribe 6

1,395 views

Add to Share More 11 1

Published on Aug 8, 2015

This fight looks similar to a different recording near kobane in 2014 but it might not be. it could be north Iraq. So not sure if its ypg or peshmerga. Isis finding out they are not like the others who fight for 2 hours and walk away.

SHOW MORE

How to root out the fake?

- Think like a faker -- how would you find the source material to spread a fake photograph or video?

How to root out the fake?

- Think like a faker -- how would you find the source material to spread a fake photograph or video?
- Search Google (videos or images) with general terms that match the possibly fake video, then search through results for something that looks familiar.

How to root out the fake?

- Think like a faker -- how would you find the source material to spread a fake photograph or video?
- Search Google (videos or images) with general terms that match the possibly fake video, then search through results for something that looks familiar.
- Most fakers find source material without clear, identifiable features contradicting the supposed setting, such as street signs, landmarks, etc.

How to root out the fake?

- Think like a faker -- how would you find the source material to spread a fake photograph or video?
- Search Google (videos or images) with general terms that match the possibly fake video, then search through results for something that looks familiar.
- Most fakers find source material without clear, identifiable features contradicting the supposed setting, such as street signs, landmarks, etc.
- Be aware of filters, alterations, or added “noise” to make a photograph or video harder to trace back.

How to root out the fake?

- Think like a faker -- how would you find the source material to spread a fake photograph or video?
- Search Google (videos or images) with general terms that match the possibly fake video, then search through results for something that looks familiar.
- Most fakers find source material without clear, identifiable features contradicting the supposed setting, such as street signs, landmarks, etc.
- Be aware of filters, alterations, or added “noise” to make a photograph or video harder to trace back.
    - Zooming in on photograph/video
    - Mirroring
    - Extra logos/graphics in corners, obscuring details
    - Dubbed-in or removed audio (in order to add authenticity, or strip speech/languages)

night vision fighting

All | Images | Videos | Shopping | News | More | Settings | Tools

About 597,000 results (0.35 seconds)

Amazing Firefight Nightvision - YouTube

https://www.youtube.com/watch?v=qqgjg1rIKAk

Jul 2, 2011 - Uploaded by xjkill

Holy crap.

Dramatic night footage of fighting in Fallujah - 2004 - YouTube

https://www.youtube.com/watch?v=sL4fUTGk3kg

Jul 21, 2015 - Uploaded by AP Archive

Dramatic night footage of **fighting** in Fallujah - 2004 .... Intense **Nightvision** Firefight Compilation | U.S ...

SHOCKING IRAQ WAR NIGHT VISION FOOTAGE!!! - YouTube

https://www.youtube.com/watch?v=w8UFaf8VnUI

May 26, 2011 - Uploaded by bushdidit2u911

SHOCKING IRAQ WAR **NIGHT VISION** FOOTAGE!!! .... War in Syria - Insane Intense **Fighting** and Firefights ...

Intense Nightvision Firefight Compilation | U.S. Military Afghanistan ...

https://www.youtube.com/watch?v=HLSEJ-hLkcc

Feb 4, 2017 - Uploaded by MilitaryCorner

A Compilation of **Nightvision** Firefights filmed by U.S. Forces! ➔ Visit RECON COMPANY: https://www.recon ...

Heavy firefight at night in Iraq - YouTube

https://www.youtube.com/watch?v=2CjseDAuMvw

May 17, 2012 - Uploaded by German Military Power

yea dude. fuck imagine we were **fighting** the russians or an actual .... Intense **Nightvision** Firefight Compilation ...

Syria/War/ Сумасшедший ночной бой.Шквальный огонь в упор.

Sochi Ed

Subscribe 82

1,077 views

Add to Share More 10 5

Published on Oct 26, 2016

Category People & Blogs
License Standard YouTube License

https://www.youtube.com/watch?v=5GgRZyWhBa8

Запеклі бої тривають на Світлодарській дузі

Сегодня

Subscribe 27K

10,896 views

Add to Share More 36 10

Published on Dec 19, 2016

Бойовики пішли у наступ. Тричі намагалися вибити з позицій українських військових. Обидві сторони зазнали значних втрат. Штаб АТО повідомляє про п'ятьох загиблих та шістьох поранених українських бійців.
Цю та інші новини ви можете подивитися у випуску інформаційної програми «События» на каналі «Україна» за 19 грудня о 15:00

SHOW MORE

- Photo shared on social media page of “Russian soldier” claiming to have shot down Malaysian Airlines Flight 17 (MH17)
- Profile seemed legitimate -- friends, photos, apparently from real division in Russian military
- Shared geotagged photo of missile system in Donetsk, Ukraine
- Photo did not have any results on Google Image Search, suggesting it was original (thus, not borrowed/recycled from another source)

Фотография 3 из 13 Закрыть

Место: Экскаваторная улица, Донецк

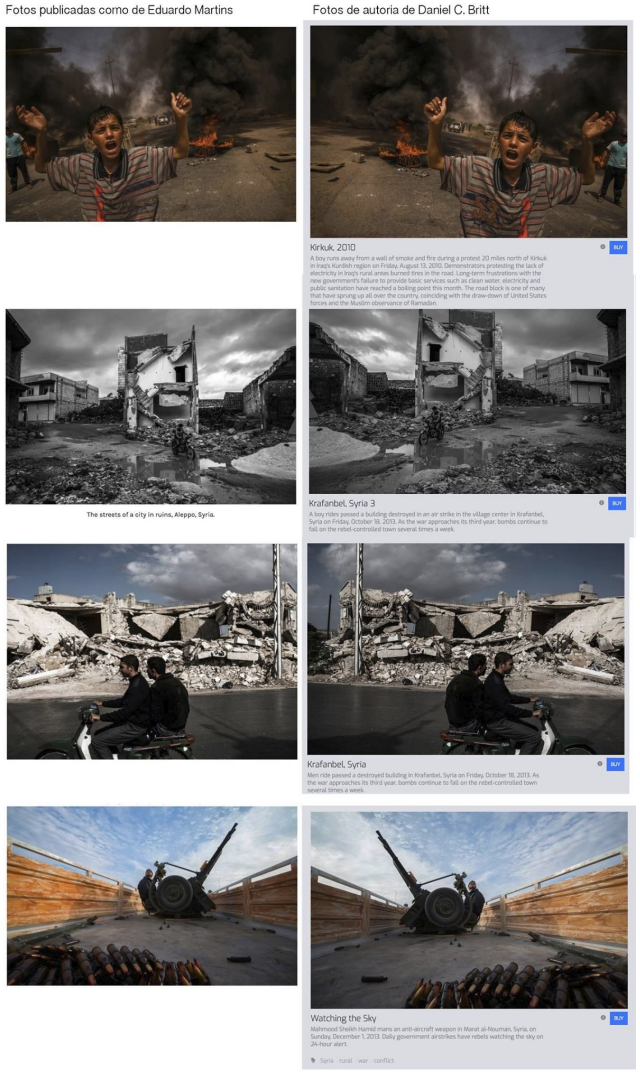
Добавлена 20 сентября 2014 | Мне нравится 5

Комментарии к этой фотографии скрыты настройками приватности.

Вадим Хома

Фотографии на стене Вадима

It is not only fake “soldiers” altering images to pass them off as real. A Brazilian man named “Eduardo Martins” passed off the real photos of professional photographers as his own, after doing slight modifications to them, preventing results on reverse image searches. His photos were published on Getty, Deutsche Welle, Wall Street Journal, and other prestigious publications and photo services.



Advanced Geolocation

Офицер-десантник метким выстрелом из ПТРК уничтожил БМП террористов близ Донецка

23 февраля, 20:16
3992 2

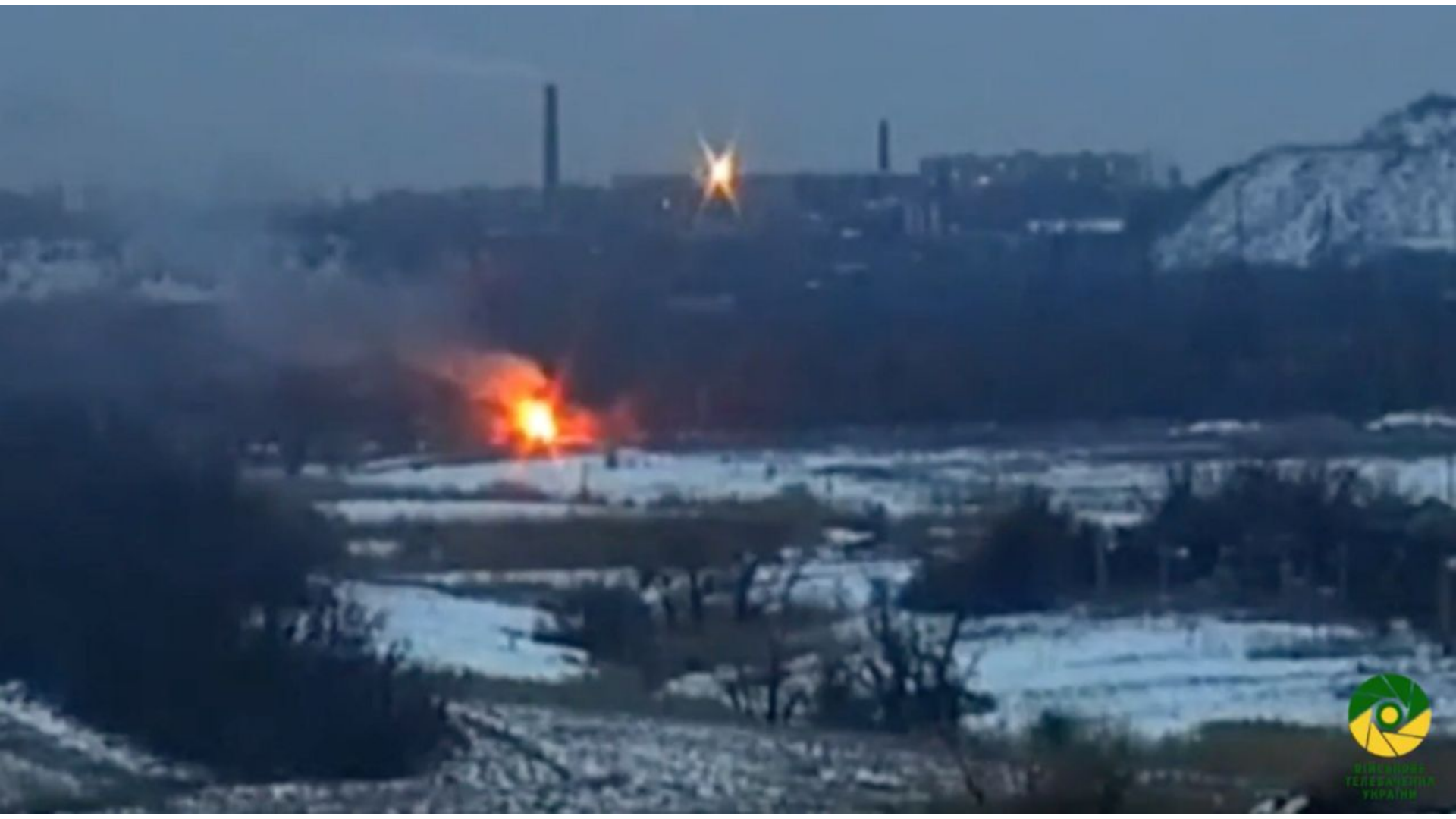
комментировать

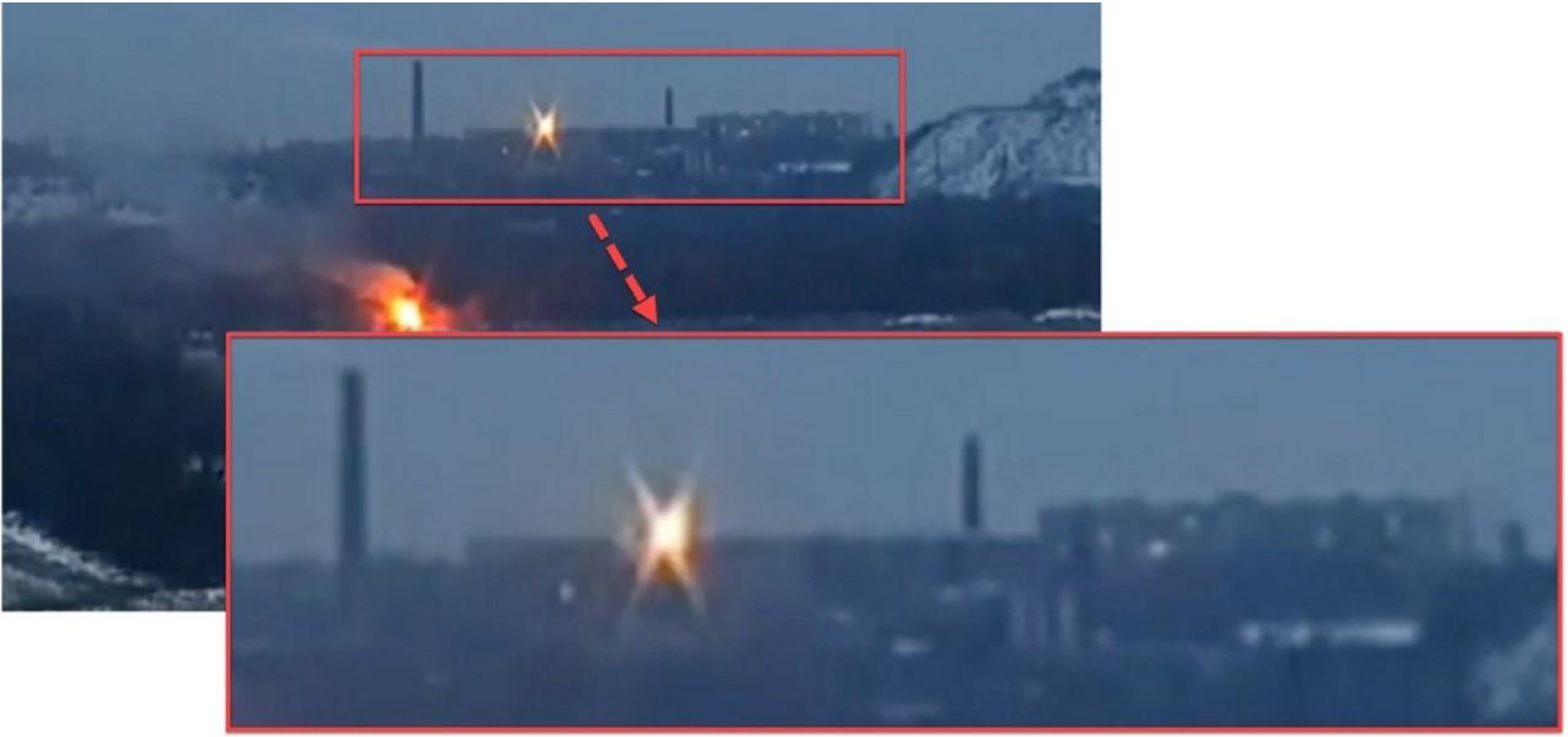
5
0
0
1

Этот материал можно прочитать и на украинском языке

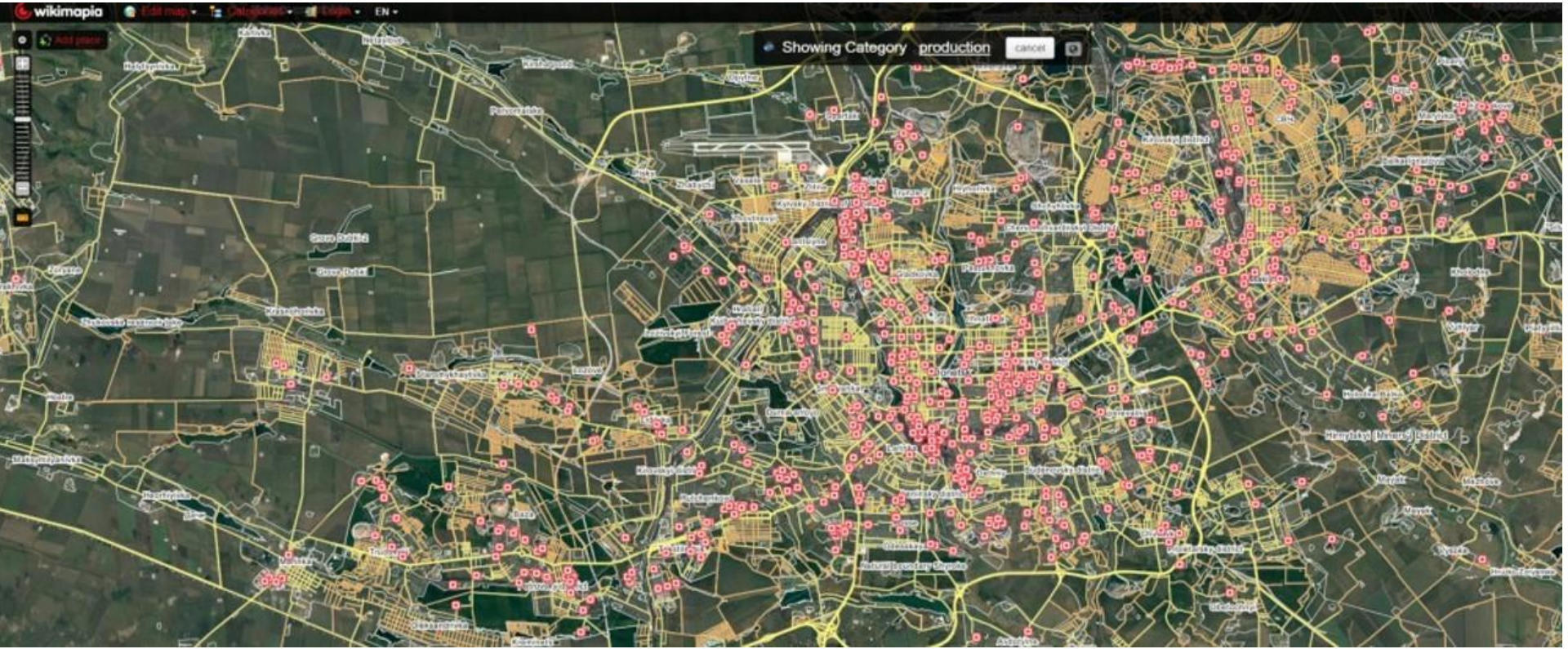
Момент уничтожения БМП

https://youtu.be/Ky9pBrc4Qwc

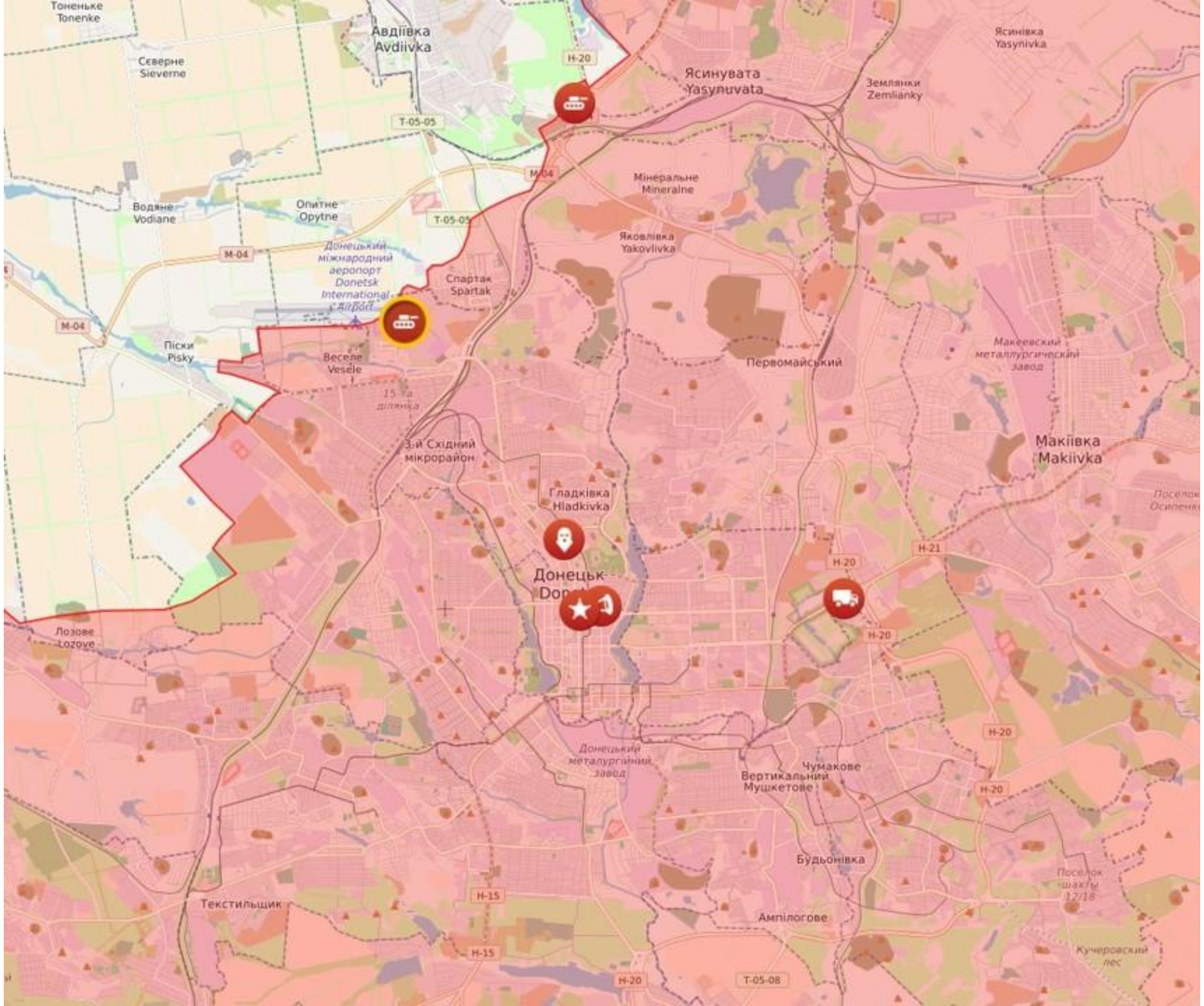




Wikimapia.org


wikimapia
Edit map
Categories
Edits
EN
Add place
Showing Category production
cancel

LiveUAMap.com


Авдіївка
Avdiivka
Ясинувата
Yasynuvata
Ясинівка
Yasynivka
Землянки
Zemlianky
Мінеральне
Mineralne
Яковлівка
Yakovlivka
Водяне
Vodiane
Опитне
Opytne
Донецький міжнародний аеропорт
Donetsk International Airport
Спартак
Spartak
Піски
Pisky
Веселе
Vesele
Первомайський
Макіївка
Makiivka
Макеевский металлургический завод
3-й Східний мікрорайон
Гладківка
Hladkivka
Донецьк
Lozove
Лозове
Донецький металургійний завод
Чумакове
Вертикальний
Мушкетове
Будьонівка
Текстильщик
Ампілогове
Кучеровский лес
H-20
H-21
H-15
M-04
T-05-05
T-05-08

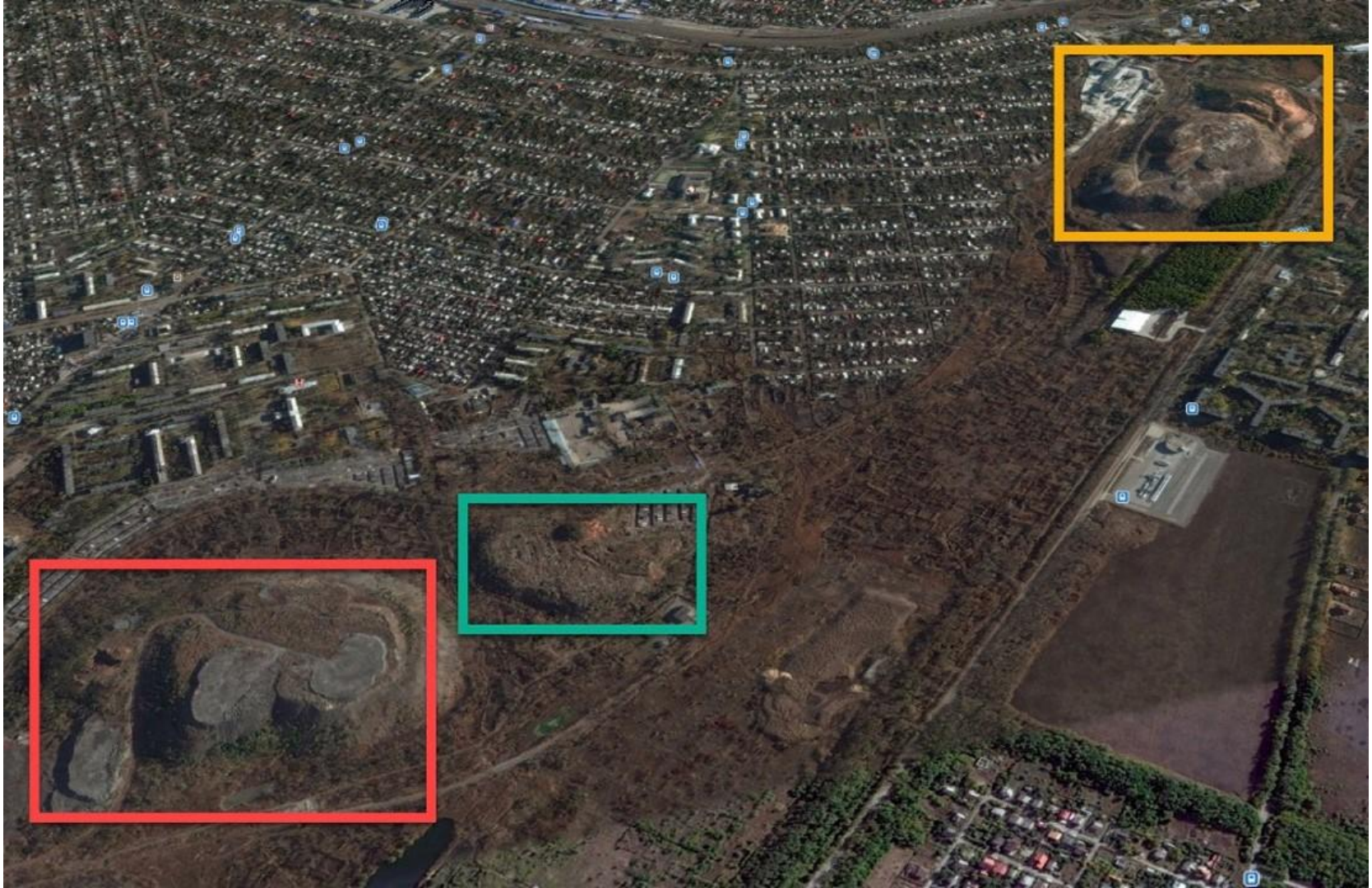
Where was the video shot?

— From territory under the control of the Ukrainian Armed Forces, with the camera facing Donetsk

— The BMP is located around a forested area, likely near the front line

— The video was shot near a factory with at least two smokestacks

— The video was shot facing a hill or terrikon (slagheap) to the right of the camera



Прогулка на терриконе

Валерий Дед

Photo details

Uploaded on November 1, 2011

Attribution
by Валерий Дед