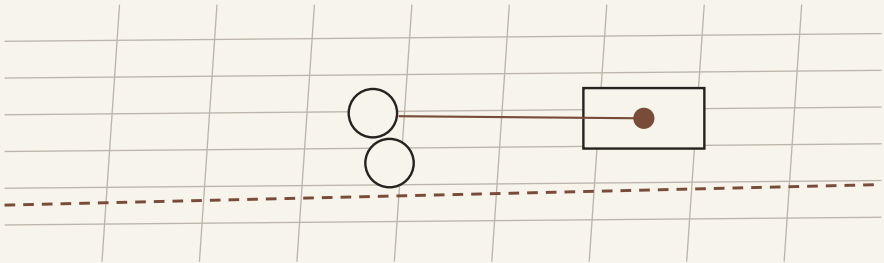


Where is this wave?

*Finding the roof a 2011 tsunami video was filmed from,
with open maps only*



Ahmet Göker, CSINT Research
Free booklet, September 2026

Why this booklet?

In the first booklet I looked at when a video was filmed. This time the question is different: where?

One of the videos that spread after the 20 April 2026 Sanriku earthquake was a tsunami clip in which the water sweeps across a car park. The posts presented it as that day's tsunami. Fact checkers soon showed that the footage was from 2011.

I took one step further and found the roof of the building it was filmed from. I used only pages anyone can open: frames of the video itself, aerial photos from GSI, Japan's official mapping agency, OpenStreetMap records and a few calculations from coordinates. At each step I write down what I looked at, what I measured and what I could not know.

What this booklet does not do

It does not use any frame in which people can be seen. It does not name the person who filmed the video, and it blacks out the names of the accounts that shared it. It only looks at places and structures.

11 March 2011

First I noted the event the footage belongs to, from an official source. I re-read the values on 29 September 2026 in the report the Japan Meteorological Agency (JMA) published for this earthquake.

Record	
Date and time	11 March 2011, 14:46 Japan time
Place	Off Sanriku, Pacific Ocean
Magnitude	M 9.0 (JMA)
Highest wave in Ishinomaki	8.6 m or higher, at 15:26, Ayukawa gauge

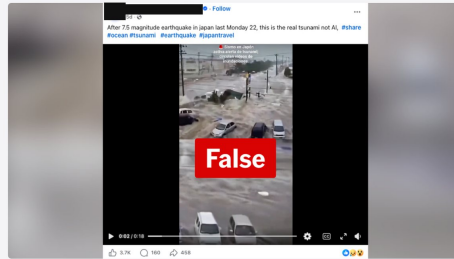
Where was it measured?

The Ayukawa gauge is on the Oshika Peninsula, not where the video was filmed. I found no official wave height or arrival time for the Minato district, where the video was made, so I do not guess the time of the video.

What was shared in 2026?

In the days after the earthquake the video started to spread again. According to AAP FactCheck's article of 29 April 2026, a Brisbane-based Facebook account shared it as "the real tsunami not AI" after the magnitude 7.5 earthquake of the previous Monday.

Another Facebook post includes footage of tsunami waves crashing over a car park and carrying away vehicles and claims it was shot in April 2026.



The miscaptioned video was posted by a Brisbane-based account. (AAP/Facebook)

- 1 "After 7.5 magnitude earthquake in Japan last Monday 22, this is the real tsunami not AI," the post reads.
- 2 But the video actually shows a tsunami in Ishinomaki, Japan, in 2011.

The footage matches a video⁹ uploaded by the Japan Tsunami Archives YouTube channel in 2022, which states it was shot from an office rooftop in Ishinomaki.

The location in the video can be seen on Google Maps Street View¹⁰; imagery from August 2011, six months after the tsunami.
- 3 The carpark in the video is not visible in the imagery, but other notable landmarks match the footage, including blue gas storage facilities beside the office block.

AAP FactCheck, 29 April 2026. 1: the text of the post, 2: where AAP placed the video, 3: the structure they matched, the blue gas storage. The account's name and picture are blacked out. Screenshot taken on 29 September 2026.

Step 1

Put the question in one sentence

From the roof of which building was this filmed?

The fact checkers had already found the date. My question was about the place, and the answer had to be a coordinate. A district name or a description such as “near the port” does not answer it.

I also wrote down in advance when I would call it settled: when at least three independent clues point to the same building. A single address or a single resemblance is not enough.

Step 2

Read the description, but do not trust it

Searching YouTube for 石巻 津波 (Ishinomaki tsunami) brought up many copies of the same footage. The oldest copy I found was uploaded on 18 December 2011, and its description gives an address.



The takuro suzuki channel, YouTube. 1: uploaded 18 December 2011, 2: the address in the description, Myojincho 2-3-48. Screenshot taken on 29 September 2026.

The Japanese broadcaster FNN published the same footage on its archive channel on 25 October 2012 and wrote far more detail in the description: the building, the road in front of it and the distance to a school.

3.11
FNN311

チャンネル登録者数 32.7万人

チャンネル登録

高評価

共有

保存

...

1

14,126,651回視聴 (2012/10/25) #240

Tsunami surging to Minato district of Ishinomaki city (Footage provided by viewer) The Japanese text is followed by an English translation.

2

宮城県・石巻市を襲った津波の様子を捉えた映像。石巻漁港からほど近い、明神町の石巻ガス株式会社・本社ビル屋上(当時)から、同社に勤務する氏が撮影。

3

大地震のあと、同社の従業員を含む約35名ほどの人たちが、このビルの屋上に避難していた。映像は、波が海岸方面から、目の前(県道240号線)付近にまで押し寄せてきた様子から始まる。はじめ静かに見えた流れだが、すでに、おびただしい数の漂流物を運びながらビルに迫り、またたく間に激流へと変わっていく。ビル前の駐車場に水があふれてきたと思ったのもつかの間、駐車場の車という車が、全て押し流され、避難者たちのいるビルの壁面で波にもまれ、おもちゃのようにひしめき合う。あつという間に、波は高さを増し、激しい白波を立てた濁流が、もう屋上間近にまで迫っている。想像を超えた危機的状況に「ヤバイぞ! ヤバイぞ!」と切迫した声が、いくつも聞こえてくる。撮影者と周囲の人たちは、わずかでも高い場所にと、屋上出入口の屋根へとのぼった。

4

より高い位置にポジションが変わり、カメラは内陸方向にも転じ、500メートルほど離れた湊中学校、湊第二小学校の方面を映し出す。雪景色でかすんだ、湊中学校。そこに通う子どもたちのことを案じる女性の声。その不安をなだめるように、「あそこは大丈夫だよ」と健気に応える声...

FNN311, YouTube. 1: uploaded 25 October 2012, 2: where it was filmed, the roof of Ishinomaki Gas's head office building in Myojincho (at the time), 3: the road in front, Prefectural Road 240, 4: distance to the school, about 500 m. The filmer's name is blacked out. Screenshot taken on 29 September 2026.

An address is not evidence

Both descriptions name the same building, but whoever uploads a video writes its description. It can be wrong, or copied from another video. So I took the address as a candidate and tested it against the structures in the footage.

Pick the things that do not move

The water, the cars and the debris are gone the next day. I was looking for structures that would still stand in the same place years later. I paused the video every six seconds and took 45 frames, set aside the frames showing people, and noted this in the rest:

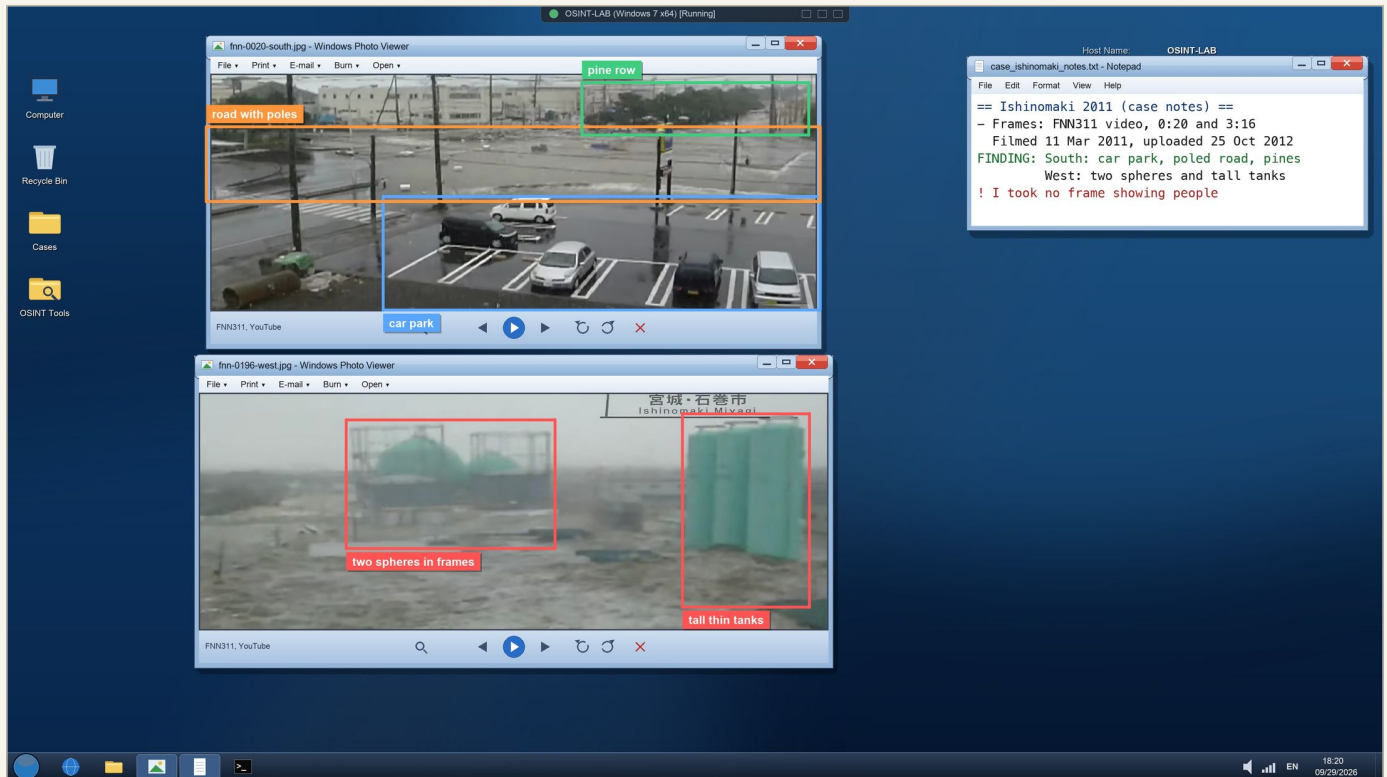
0:20, looking south. A car park with painted lines right in front, a wide road lined with power poles behind it, and at the back a row of pines and white factory buildings.

3:16, looking west. Two green spheres inside lattice frames and three or four tall, thin turquoise tanks. The thin tanks are closer than the spheres and to their right.

2:50 and 3:10. A wide green corrugated roof right below the camera. At 3:10 FNN itself marked the distant buildings with an orange frame.

Why the spheres?

Gas spheres and tanks are large, expensive and hard to move. Seen from above they show as circles, which makes them a good place to start in an aerial photo.



Work screen 1. Top, the frame at 0:20 looking south: car park, road with poles, row of pines. Bottom, the frame at 3:16 looking west: two spheres in frames and tall thin tanks. Frames taken from the paused player on 29 September 2026

Step 4

Put the address on a map

I typed the address into GSI's map service. The search gave a point, but it fell at the edge of a road. Address points often mark the rough place of a plot or a block rather than a building.

OpenStreetMap has a record named 石巻ガス (Ishinomaki Gas) in the same district, and its point sits inside a large building. GSI's address point is about 85 m away from it.



OpenStreetMap, node 8484376919. 1: the record's name, 2: its latitude. Map data © OpenStreetMap contributors. Screenshot taken on 29 September 2026.

That left two candidates: the address point and the OSM record. The structures in the video would decide between them.

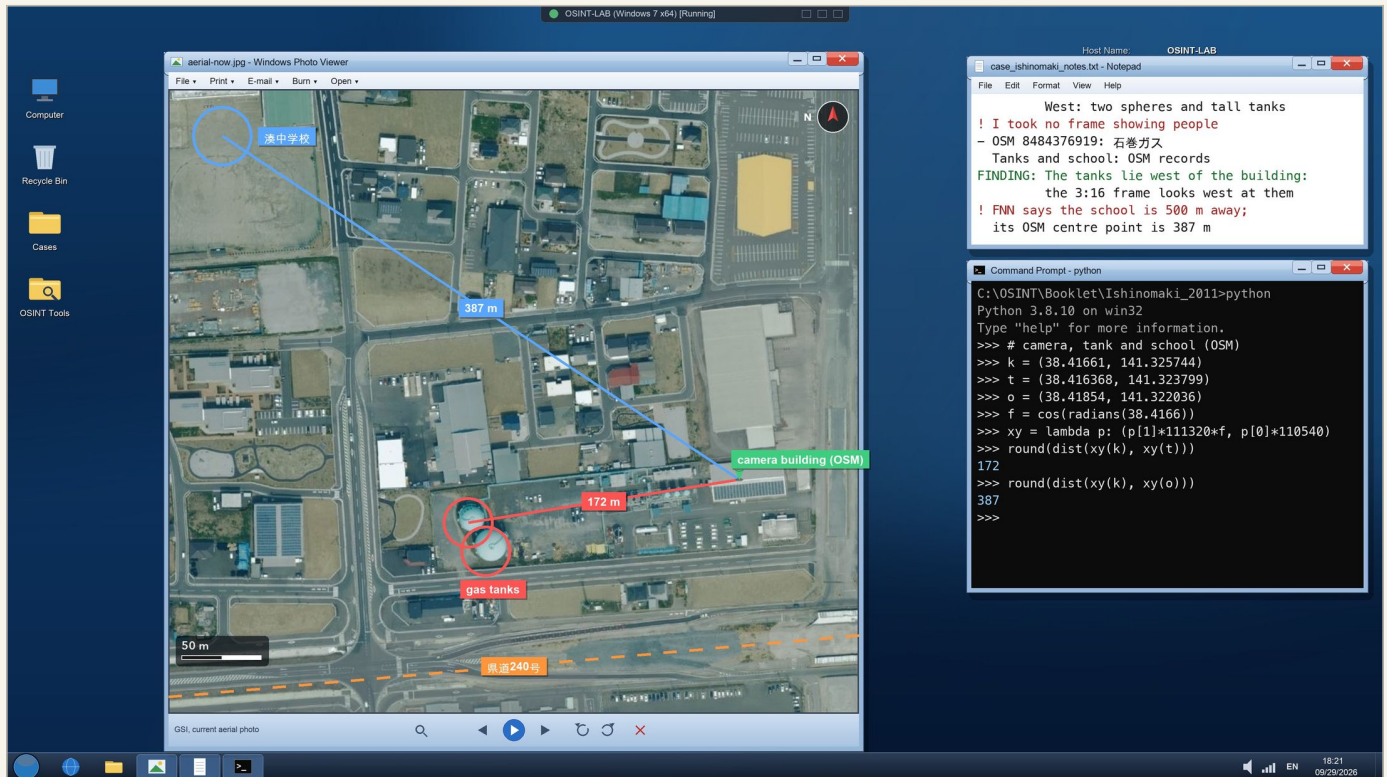
Measure directions and distances

In the current aerial photo the two large gas tanks stand west of the OSM record. The frame at 3:16 shows the tanks while looking west. In that frame the thin tanks are closer than the spheres, and in the aerial photo those small tanks sit between the spheres and the building.

I computed the distances from the OSM coordinates. The tanks are 172 m from the building, and the centre point of Minato Junior High School in OSM is 387 m away. Prefectural Road 240 runs east to west about 100 m south of the building. It is the wide road seen behind the car park in the frame at 0:20, looking south.

500 m or 390 m?

FNN says the school is about 500 m away; I measured 387 m. The school grounds are large, and FNN may have meant one of its buildings where I took the centre of the grounds. The difference does not change the result, but it is a good reminder not to take a written figure as it stands.



Work screen 2. GSI's current aerial photo with the camera building (OSM), the gas tanks, Minato Junior High School and Prefectural Road 240. The Python session on the right computes the distances from the OSM coordinates and was really run when the screen was drawn

Step 6

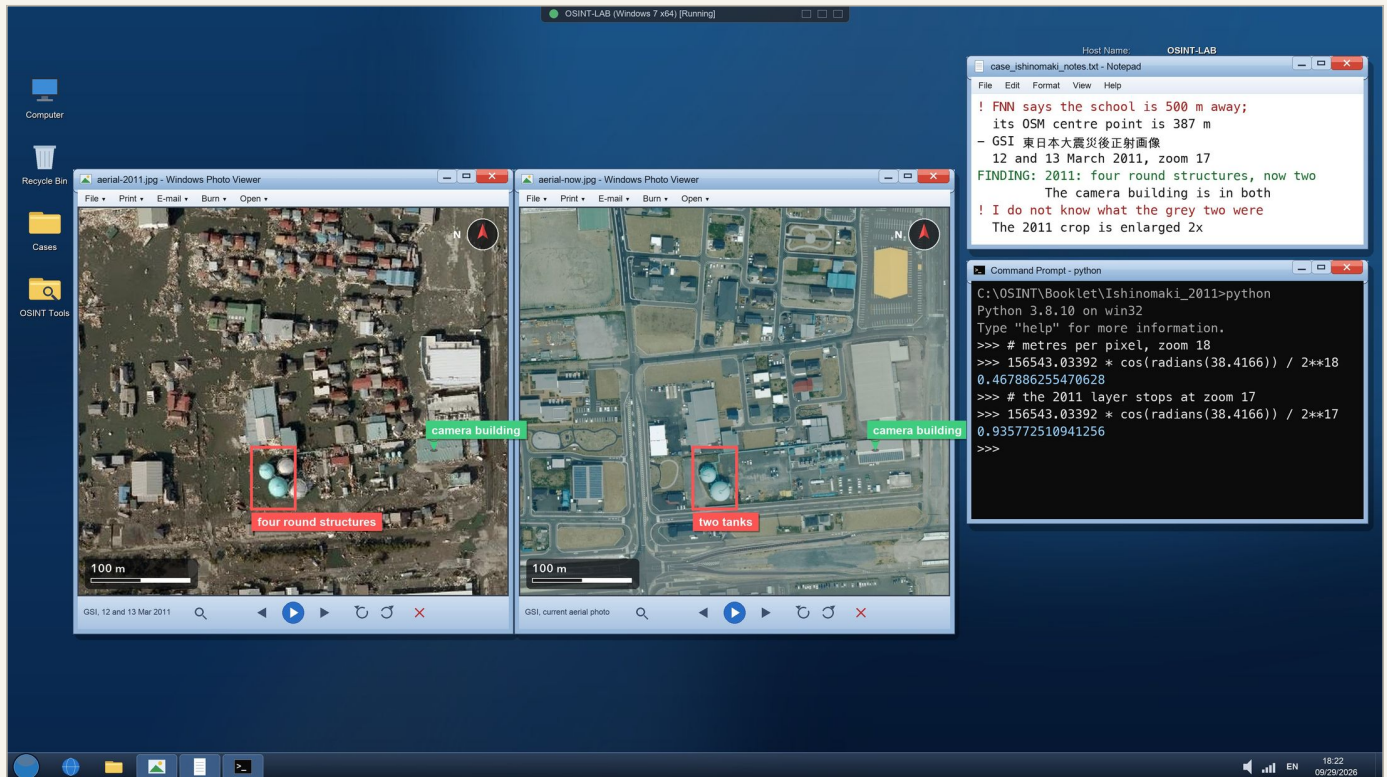
Compare with the 2011 photo

Today's photo is not enough on its own: much can change in fifteen years. I opened GSI's aerial photos taken on 12 and 13 March 2011, the day after the tsunami.



GSI map service, the 東日本大震災後正射画像 layer, 12 and 13 March 2011. 1: four round structures, 2: the centre of the map, the building in OSM. Source: GSI (出典 国土地理院). Screenshot taken on 29 September 2026.

The 2011 photo shows four round structures, two turquoise and two grey. Today only the two turquoise tanks remain. The camera building's roof is green in 2011, the same as the green corrugated roof right below the camera in the frames at 2:50 and 3:10. Today the same roof carries solar panels.



Work screen 3. The same area, 12 and 13 March 2011 on the left, today on the right. Two of the four round structures remain, and the camera building is there in both. The 2011 photo is enlarged 2x so both crops share one scale

In the video the same roof shows at 3:10, right below the camera.



FNN311 video, 3:10. The green corrugated roof below the camera, the tall thin tanks behind. The orange frame is FNN's own mark. Screenshot taken on 29 September 2026.

Comparison

What did others find?

After reaching my own result I read what the fact checkers wrote. AAP matched the place with Google Street View imagery from August 2011 and with the blue gas storage next to the office block. Tempo also confirmed through a visual match on Google Maps that the video was filmed at a gas company in Ishinomaki.

My route was different: instead of Street View I used GSI's 2011 aerial photos, OSM records and distances from coordinates. Both routes lead to the same building.

Where I ended up

The video was filmed on 11 March 2011 from the roof of the Ishinomaki Gas building in Myojincho, in Ishinomaki’s Minato district. *In OpenStreetMap the building is recorded as 石巻ガス at 38.41661 N, 141.32574 E.*

What the evidence shows	What it does not show
The tanks are 172 m west; the video shows them while looking west.	The minute the video was filmed.
The road is about 100 m south; the frame looking south shows the car park and the road.	What the two grey structures of 2011 were.
In 2011, a green roof and four round structures, as in the video.	Where the 21SEIKI car park FNN mentions is today.
The oldest copy I found is dated 18 December 2011.	Why people shared it in 2026.

Three independent clues point to the same building: the tanks to the west, the road and car park to the south, and the green roof of 2011. By the rule I set at the start, the location is settled.

Something I do not know

FNN writes that the water poured into the multi-storey car park of a pachinko hall called 21SEIKI. OSM has no record by that name. About 470 m north of the building there is a pachinko hall with another name today, but I could not confirm it is the same place, so I left it out of the result.

If you want to try it yourself

Next time someone sends you a video asking “where is this?”, try these six steps.

1. Turn the question into one sentence whose answer is a coordinate.
2. Treat the address in the description as a candidate, not as evidence.
3. Pick the structures in the video that will stay put for years. Do not use frames showing people.
4. Find the candidate on an official map and in OpenStreetMap, and compute directions and distances.
5. Compare with the aerial photo closest to the date of the event.
6. If at least three independent clues do not point to the same spot, write “I don’t know”.

Where to get aerial photos

For Japan, GSI’s map service (maps.gsi.go.jp) is free and includes post-disaster layers. For other countries, Esri World Imagery or the historical imagery in Google Earth is a good start. After large disasters, look at the country’s mapping agency too.

Where I looked

1. Japan Meteorological Agency (JMA), 災害時地震・津波速報
平成23年 (2011年) 東北地方太平洋沖地震 (quick report on the 2011 Tohoku earthquake).
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3. FNN311, YouTube, 25 October 2012,
石巻市湊地区に押し寄せる津波【視聴者提供映像】.
youtube.com/watch?v=K0rWPm9f3GQ
4. AAP FactCheck, “Old Japan disaster videos recycled after recent earthquake”, 29 April 2026. aap.com.au/factcheck/old-japan-disaster-videos-recycled-after-recent-earthquake
5. Tempo, “Fact Check: Misleading Videos Circulate After April 20, 2026 Japan Earthquake”, 27 April 2026. en.tempo.co/read/2100617
6. Geospatial Information Authority of Japan (GSI), map service and tiles: current aerial photos (seamlessphoto), 東日本大震災後正射画像 (toho1, 12 and 13 March 2011), standard map. maps.gsi.go.jp. Source: GSI (出典 国土地理院)
7. OpenStreetMap, node 8484376919 (石巻ガス), ways 104429351 and 104429356 (gas tanks), 903069337 (石巻市立湊中学校), 941860082 and 941860085 (県道240号 石巻女川線). © OpenStreetMap contributors, ODbL

Every source was checked again on 29 September 2026.