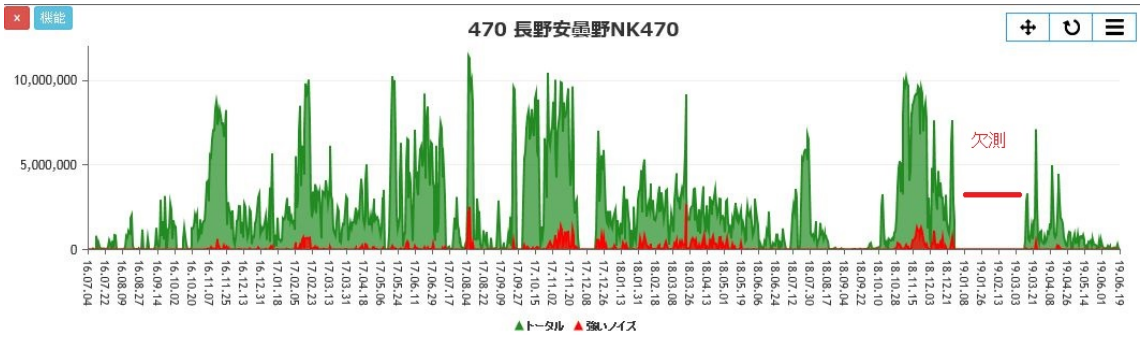
190618　About progress of precursor data for Yamagata offshore earthquake M6.8

2019,6,19　㈱新興技術研究所

Shinko engineering research corporation

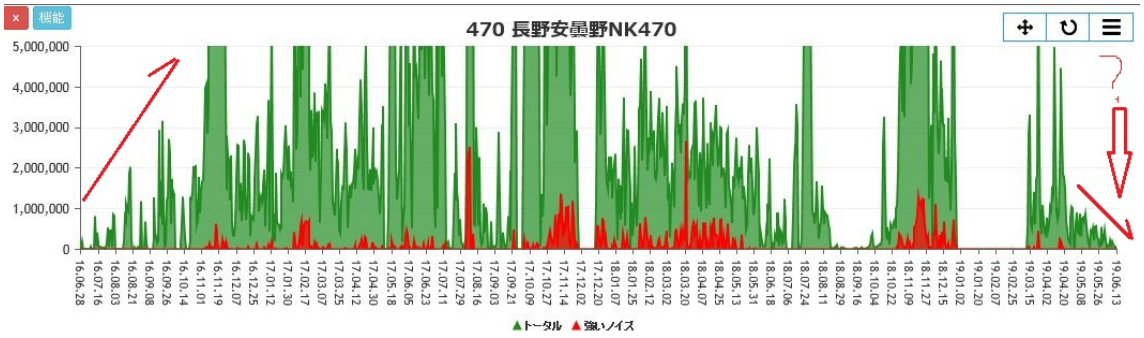
1, Azumino data for 1080 days (3 years)

Azumino observation point in the northern part of Nagano prefecture continues long-term data for three years.



2. Converging tendency of Azumino 01 Attenuation along the way, there seems to be convergence time and missing data This year (2019)

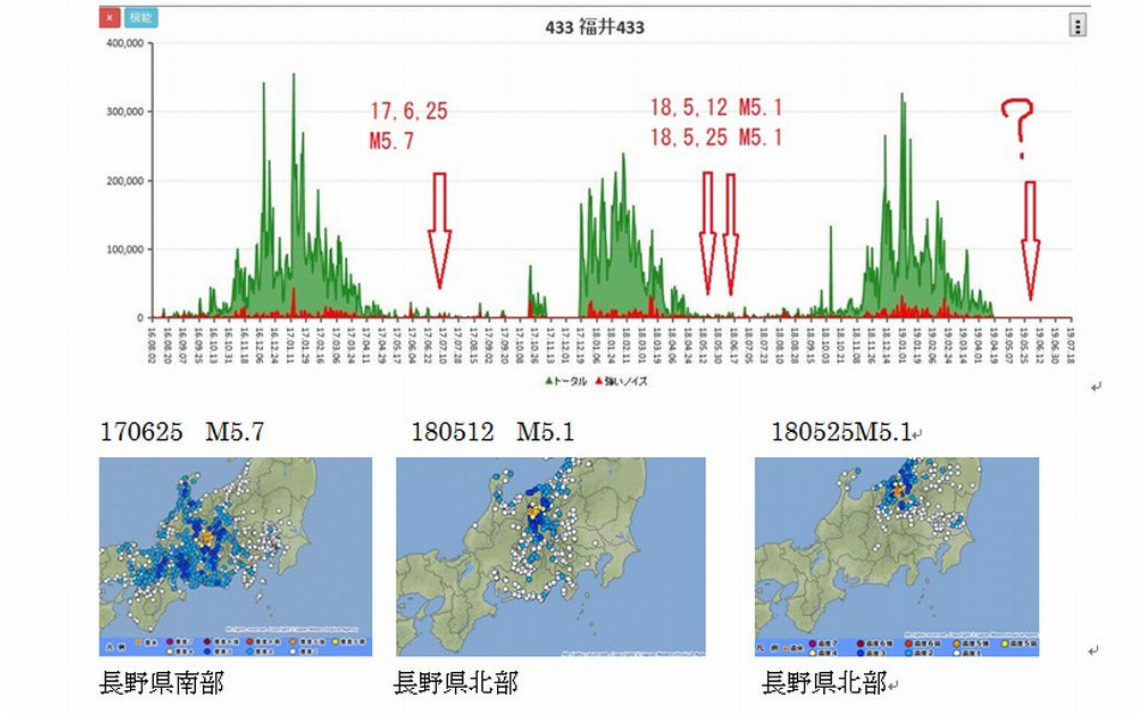
Full-scale convergence begins in May.



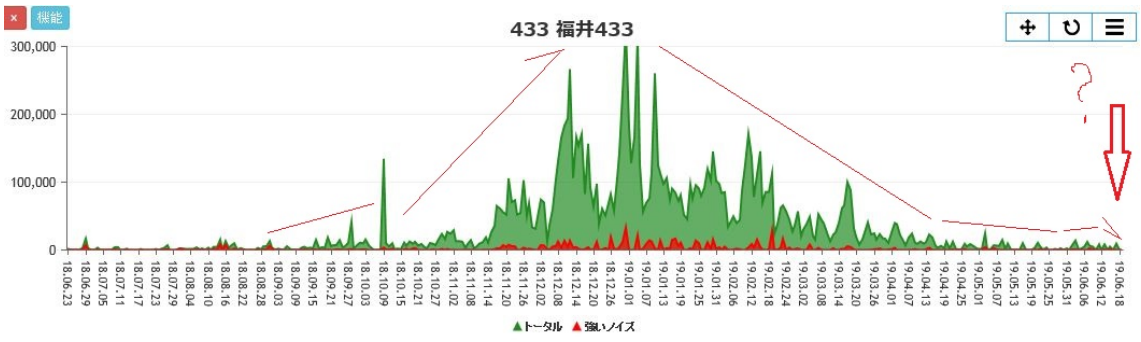
3, Azumino convergence tendency 02 360th data Convergence situation from May

4. Looking at Azumino's 1080 data for the past 3 years and M5 class earthquakes in Nagano, It is not always related or linked.

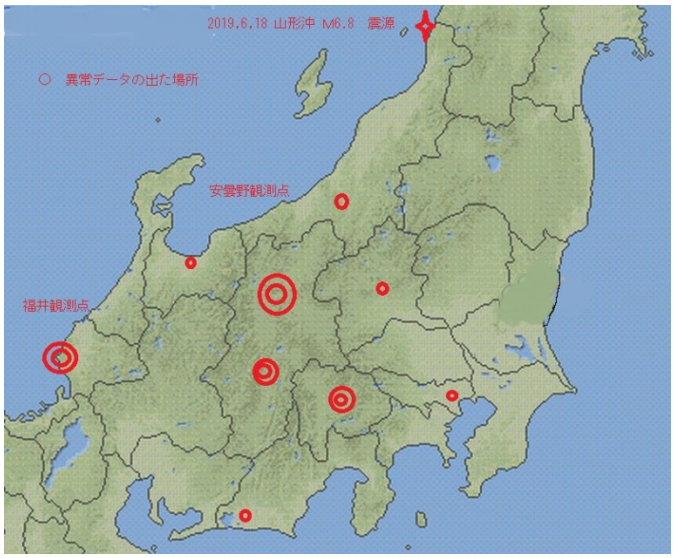
5, Fukui 1080 days data and past Nagano M5 class earthquakes, clean over the past 2 years, Synchronization, association is seen.



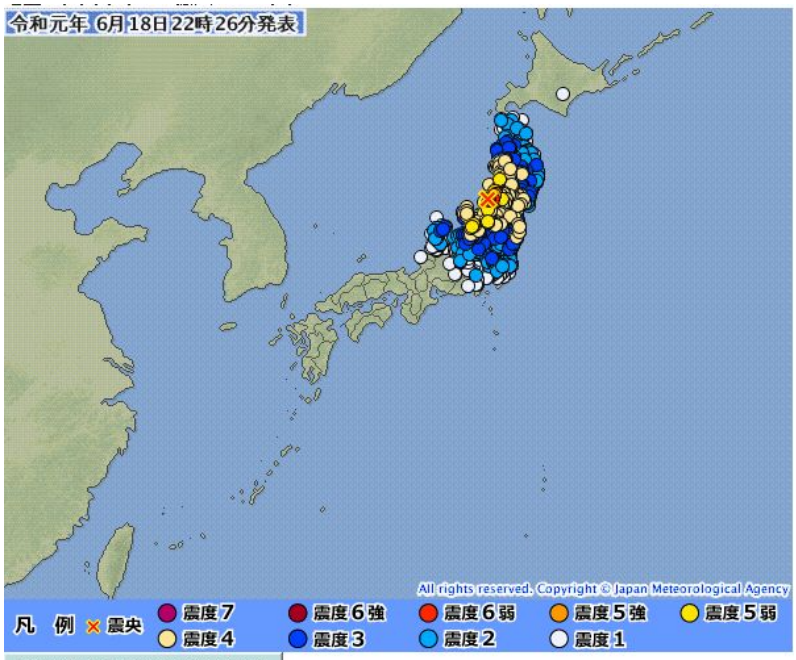
190618 Fukui's 360-day data Almost complete convergence is near.



Positional relationship between observation point and epicenter



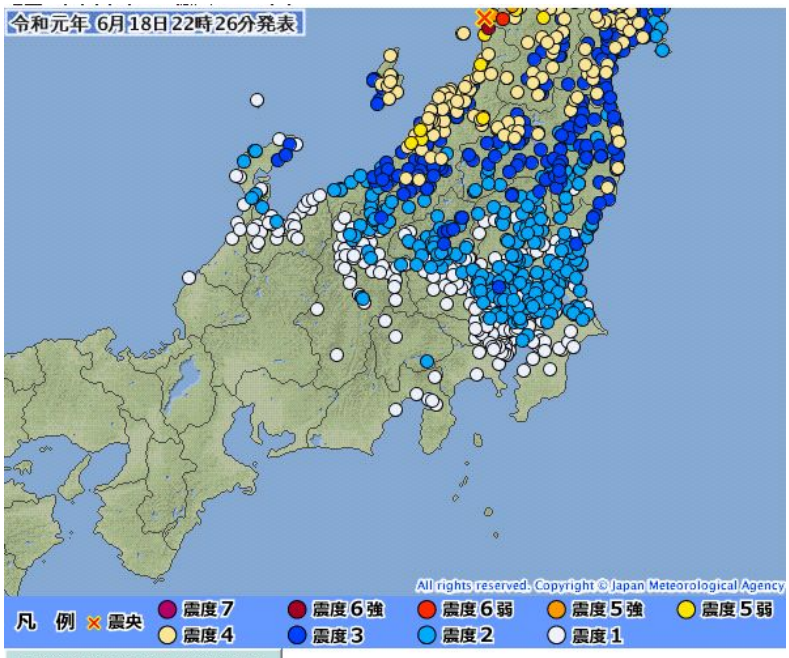
190618　22：22　M6.8 Earthquake occurrence off Yamagata Prefecture



この地震の各地域・市町村の震度

各地の震度に関する情報
令和　元年　６月１８日２２時２６分　気象庁発表

１８日２２時２２分ころ、地震がありました。
震源地は、山形県沖（北緯３８．６度、東経１３９．５度、酒田の南西５０ｋｍ付近）で、震源の深さは約１０ｋｍ、地震の規模（マグニチュード）は６．８と推定されます。



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津波警報等（大津波警報・津波警報あるいは津波注意報）を発表中です。

Discussion:　A history of precursory data of M 6.8 off Yamagata Prefecture

(1) We have continued to be careful because there was no large-scale earthquake that would cause anomalous data at Azumino Station in northern Nagano Prefecture to last for a long period of three years.

The Azumino data were not related to the M5 class earthquake in Nagano.

2 Azumino data had decay along the way, and there seemed to be a convergence period and missing data, but after 3 years

Full-scale convergence has started from around May this year (2019).

3 On the other hand, looking at the anomaly data at Fukui observation point and the past Nagano M5 class earthquakes in the past two years

There is clear synchronization, association is seen, and Fukui's 360 day data is almost same again this time,the convergence was close and synchronized with Azumino.

If you look at the data of Fukui alone from 4 or more, M5 class near Nagano can be considered

4, Considering that the long-term data of Azumino have converged at the same time, it was centered on Nagano, a major earthquake of magnitude over M6 was considered to

have occurred.
In addition, around Saku, Tokamachi, Kofu and anomalous data appeared in Tama, Nerima, Nikko, etc., and they tended to converge.

5 The result was M. 18 off Yamagata Prefecture at 22:22 on June 18.
Generally, if the abnormal data continues for a long time, the scale will increase and
There is a tendency for the locations of the observation points and the hypocenter that are out of anomalous data to be separated, but this example also
Similar results were obtained.

Reference:
According to statistics, nearly 70% of large earthquake occurrences occur 2 to 3 days before or after a new moon or a full moon
June 17th, 2019 was a full moon. Image of Strawberry Moon in triple.