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An earthquake-precursor paper without data: authors unable to verify number illustrative

The author of a widely cited earthquake-precursor paper has acknowledged that the numerical figures reported in the study were illustrative rather than empirical, and says he has no longer access to the data needed to verify them. The paper, published in 2021 in the Journal of Seismic Anomalies, claimed that "thousands of foreshocks" could be detected in the hours before a magnitude-6 or greater earthquake. Author Dr. Lena Marquez-Ito presented the paper as "a template" for how the Earth "whistles to itself before big events." Her co-author, Dr. Hiroshi Tanabe, died in 2023. Marquez-Ito says the specific numbers in the paper, and in Figure 3, were "placeholders to show the shape of the argument."

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A method sketch with illustrative numbers, presented as evidence of an epoch quake.

0 — Foreshocks detected in the 72 hours before the 2011 Tōhoku earthquake, according to the catalog the method was tested against. (p. 4 of 14)

M 2.5–5.8 — Magnitude range of the "thousands of foreshocks" the method claims to detect. The lower bound is below the catalog's reporting threshold. (p. 4 of 14)

1,440 — Minutes in the 24 hours before the quake. The method's claimed detection rate is one foreshock per minute. (p. 4 of 14)

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Figure 3
Synthetic waveform, not recorded data