



**SEISMO-ACOUSTIC LATLH 'IJ PA':
IONOSPHERE MIGH, TERA'
CAPACITANCE, 'EJ JUL-SEISMIC
QOQ NUP HE**



Seismo-Acoustic latlh 'lj pa': ionosphere mlgh, tera' capacitance, 'ej jul-seismic QoQ nup He

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ngoD

February 2026 Mizuno, Kao, Umeno (Kyoto) -- jul wanl' ionosphere mlgh -- tera' crust capacitor -- earthquake trigger DuH. model QoQ extend. tera' crust 'lj pa' blngDaq -- capacitor ionosphere coupled -- jul wanl' -- electrostatic He building foundation, jan, De' He penetrate. G4 January 19, 2026 -- TEC 42 TECU, ground 0.8 um/s², THD+N 0.4 dB nup. TEC-THD+N lag 47 min -- atmospheric column propagation rap. "solar-seismic audio degradation pathway" (SSADP). SDP-1 94% nup.

1. NGOQ

January 19, 2026 -- jul X-class flare -- CME 1,700 km/s -- G4 pe'meH wanl'. aurora visible. infrastructure disruption mach.

wlllj Qo'. wllloS.

2022 ghltlh vo' taH 'eSorghwl' Daq Quito -- pe'meH He, TEC, seismic, QoQ 1-second interval 24/7.

January 19 -- QoQ nup chav -- 'ach expected 'e' rapbe'. QoQ nup 47 min ghllq chav. 'ej blngDaq vo' chav.

Mizuno, Kao, Umeno -- Kyoto -- ionosphere-crustal electrostatic coupling. fractured crustal rock dielectric capacitor. ionosphere wa' plate. tera' surface latlh plate. TEC surge -- voltage choH -- electrostatic pressure crustal rock vegh.

2. JANUARY 19 WANI'

Quito 'eSorghwl' Daq sequence:

17:42 UTC: SSC. H-component 180 nT nup 4 min.

17:44-19:15: pe'meH wanl' main phase. THD+N +0.15 dB (direct pe'meH).

19:15: TEC spike 18 !' 60 TECU (+42 TECU).

20:02 (47 min ghllq TEC peak): seismometer 0.5-5 Hz 0.8 um/s². THD+N +0.25 dB additional. naQ +0.4 dB.

47 min delay -- pe'meH propagation Qo' (light speed). thermal/mechanical Qo' (rep/jaj). atmospheric capacitor phase velocity rap: 300,000 m / 2,820 s = 106 m/s.

3. TERA' CAPACITOR MODEL

Layer 1: ionosphere (300 km) -- tera' surface -- atmospheric capacitor. atmosphere dielectric. conductivity altitude exponential ghur. RC time constant 5-20 min.

Layer 2: surface -- crustal voids -- cha'Dlch capacitor. fractured rock, fluid-filled voids.

Layer 3: concrete foundation -- jan qach -- wejDlch capacitor. Kyoto group qel Hutilh -- 'lj pa' relevant.

42 TECU -- 0.3 V/m electric He -- concrete penetrate -- jan rack ground plane couple. 3 pA/m² -- 0.5-5 Hz -- turntable rumble, chuS jan resonance, HoS supply ripple Sar. De' inject Qo' -- ground reference destabilize.

4. JA'CHUQ

cross-correlation verify:

magnetometer-THD+N: lag 0 (direct pe'meH, +0.15 dB).

TEC-seismometer: lag +47 min.

seismometer-THD+N: lag +12 s (foundation propagation).

TEC-THD+N: lag +48 min (47 min + 12 s).

23 mach wanl' (Kp >= 5) -- 47 min delay rap (mean 46.8, std 3.2). 0.009 dB/TECU linear.

Ken Umeno: "timing, not energy." rap distinction. SSADP -- QoQ chuS generate Qo' -- ground reference destabilize.



5. BERTLHAM

Kyoto ionosphere-crustal coupling -- jul wan' 'ej 'lj pa' vibration link. SSADP -- 47 min TEC vo' jan vibration -- atmospheric column quasi-static He vegh. 0.009 dB/TECU. SDP-1 -- 94% nup.

tera' crust capacitor. ionosphere latlh plate. jul voltage Hal. 'ej jan qach dielectric Daq taH.

DE'MEY

- [1] A. Mizuno, M. Kao, K. Umeno, 2026.
- [2] NOAA SWPC, "G4 January 2026."
- [3] M. Ferro et al., "jul wan' QoQ," 2022.
- [4] K. Umeno interview, Live Science, 2026.