

Line 64 : Suggest the more commonly used “flexural **gravity** wave” which 1) emphasizes the importance of buoyancy, 2) differentiates it from the (strictly elastic) flexural plate wave approximation commonly used in mechanical engineering & ultrasonics, and 3) will improve search results for this paper.

In general, I would argue against using the ‘quasi’ terminology for a seismology paper since those terms are mostly restricted to ultrasonic NDT references. In this case, the authors do make a valid justification based on consistency with prior works by the same author (which *were* in the ultrasonics regime).

Line 69 : “one-to-one” implies a linear ( $m=1$ ) relationship. Suggest simply “direct”.

Line 121–122 : “another stations”. Should be “other stations” or “another station”.

Lines 144–146 : Incongruous statement from previous version suggesting that the icequakes are temperature-driven.

Line 155–156 : Please specify UTC vs Local. UTC is mentioned in Line 154, but the use of “noon” on Line 156 makes this ambiguous since noon is generally only meaningful for local time.

Line 169 : Suggest “...we briefly **recall** the inversion method...”

Line 204 : Orphaned sentence fragment.

Line 210 : “which mass was 39 tons”. Suggest “with a mass of 39 tons” or “for which the mass was 39 tons” or “whose mass was 39 tons”.

Line 240 : “isolate inversions **for** which source position...”

Line 243 : “The amplitude of **a** guided wave...”

Line 269 : “Guten**n**berg-Richter”

Lines 273 : “...between the icequakes **source** and the 5 geophones...”

Line 307 : Suggest “...that can **telemeter** the continuous recordings **via** satellite...”

Line 317 : “The analysis consists of a two-steps...” (‘step’ should be singular, at least in American English.)

Line 321 : “...the average ice thickness between the sources**s** and the geophones.” Should be plural for consistency of “seismic sources” in first half of sentence.

Line 323–324 : Incongruous statement from previous version suggesting that the icequakes are temperature-driven.

Line 334 : “...waveform inversion**s** strategies...” Inversion should be singular.