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Supporting information for

## Numerical modeling of the propagation of infrasonic acoustic waves through the turbulent field generated by the breaking of mountain gravity waves

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Two videos: “video\_mountain\_wave” and “video\_acoustic\_wave.”

### Supporting information

This supporting information provides the two videos cited in the paper.

The video named “video\_mountain\_wave” illustrates the evolution in time of the mountain wave field  $u'_1 \equiv u_1 - \bar{u}_1$ . The horizontal velocity  $u'_1$  is expressed in  $m s^{-1}$ .

The video named “video\_acoustic\_wave” shows the evolution in time of the scaled pressure field  $\Phi$  associated with the acoustic wave. The variable  $\Phi$  is expressed in SI units.