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OSCAR Benchmark: Single-station Site Characterisation

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OSCAR (One-Station methods for site ChARacterisation) is an international, collaborative benchmark that compares single-station approaches—i.e., methods using a single three-component seismometer—for estimating subsurface structure. Its goal is to provide the missing standardized framework for comparing these increasingly popular methods, which offer low cost and simple logistics at the expense of accuracy and/or reliability of results compared to multi-station methods. Inversions for structure from single station methods lack systematic inter-team validation, transparent uncertainty quantification, and shared best practices. The benchmark proceeds in three phases: (1) a blind test at six sites without any a priori information; (2) an informed inversion of the same data leveraging other available geological and geophysical data; and (3) scenarios with more complex geological conditions. In our contribution, we briefly present the benchmark framework and our participation in the first phase.

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