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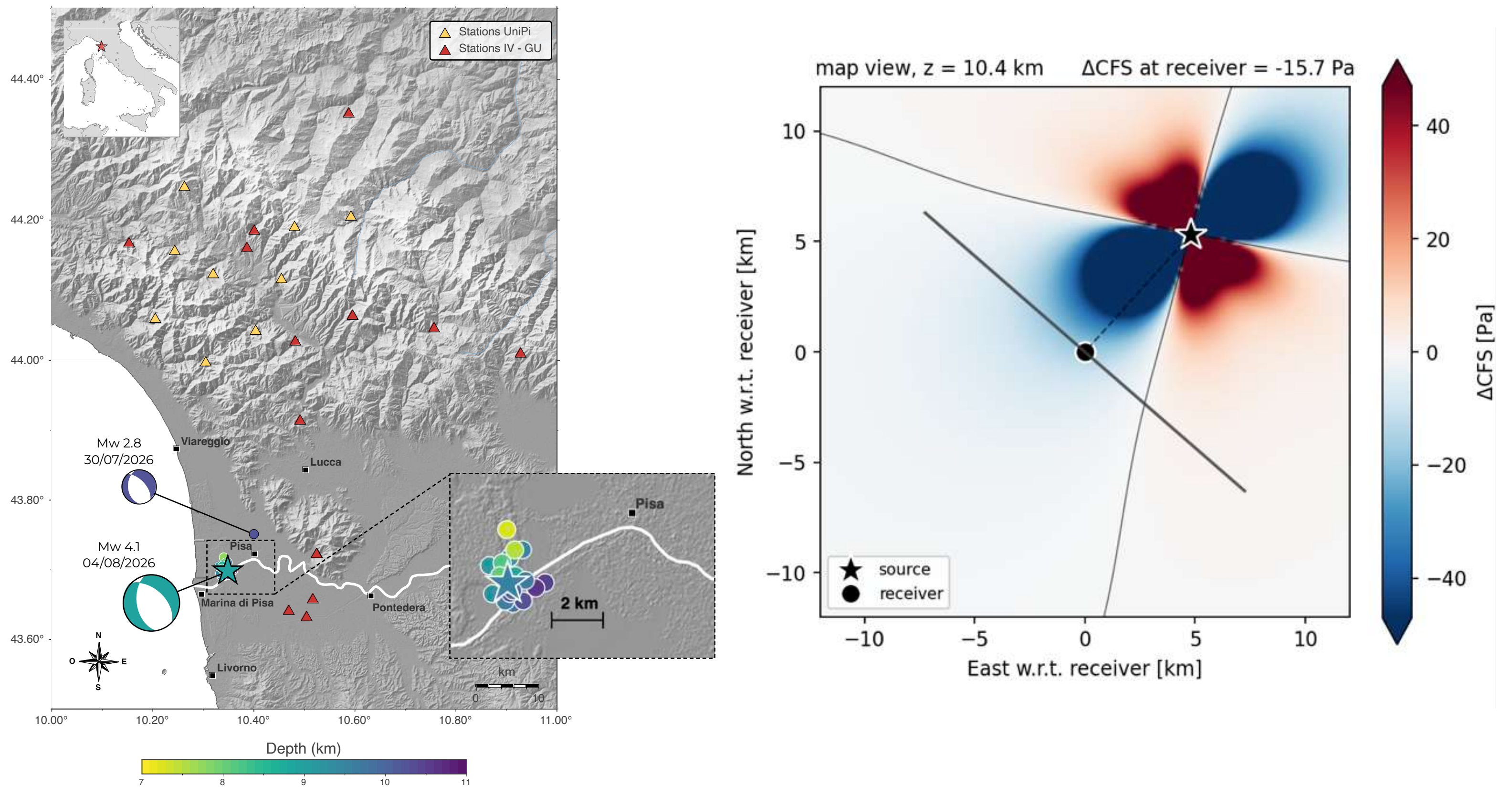
The 2026/08/04 Mw 4.1 Pisa Earthquake Sequence

F. Grigoli, E. Bozzi, G. Rapagnani,
G. Vullo, R. Fontana, G. Pascucci,
and L. Gulia

Seismology@UniPi

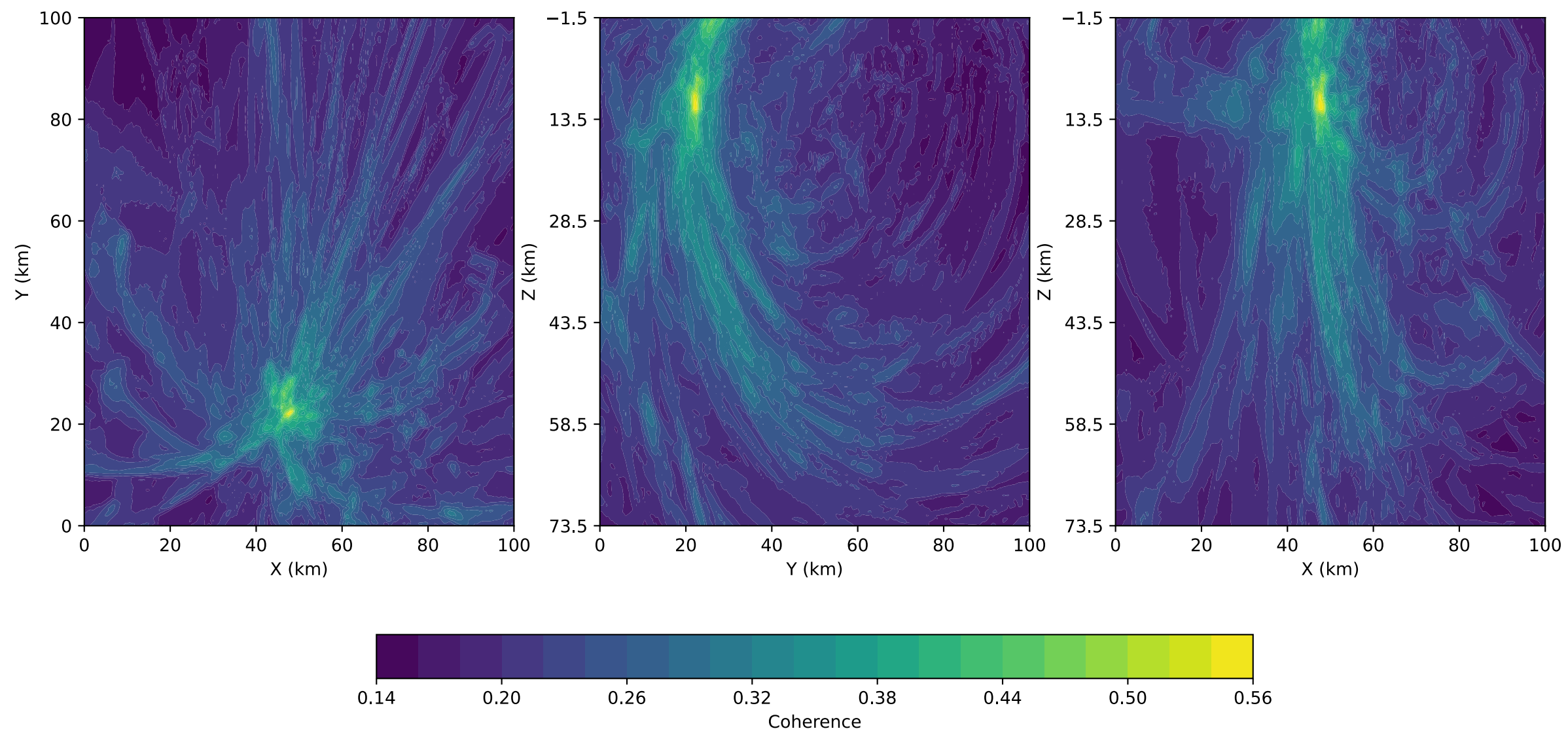


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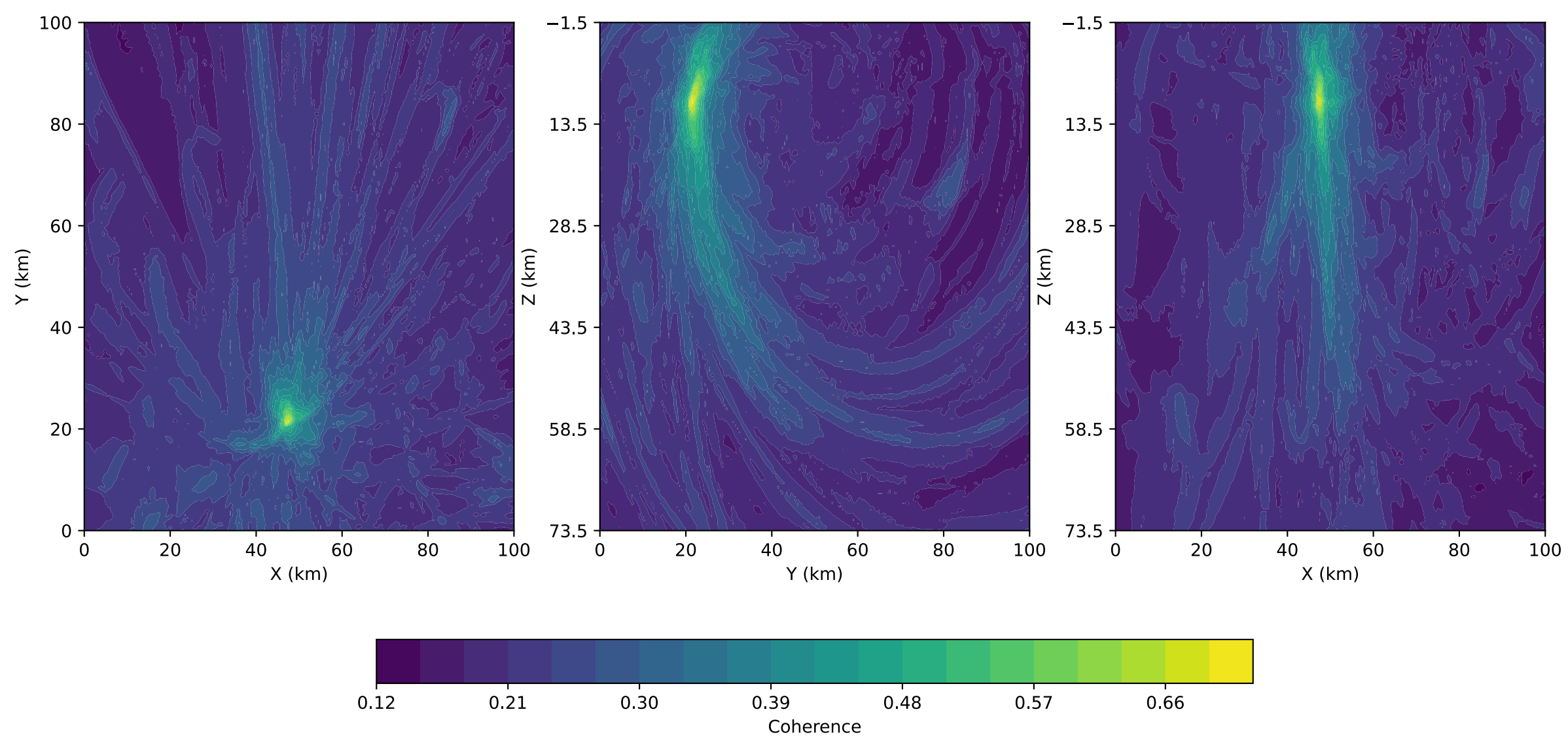


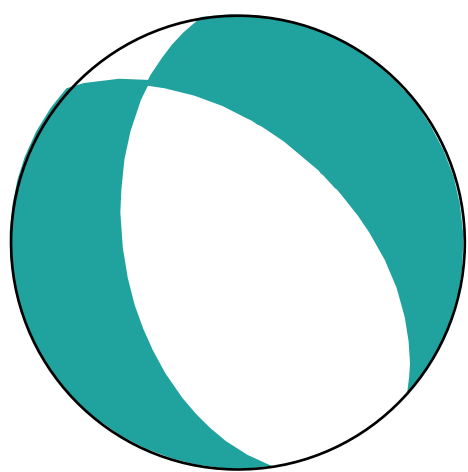
On the left a map of the events located with LOKI (Grigoli et. al. 2013) and recorded by the UniPi (managed in collaboration with INGV-Pisa) and IV/GU seismic networks; beachballs show the moment tensors obtained with GROND (Heimann et al. 2018) for the Mw 4.1 mainshock and for the Mw 2.8 event occurred few days earlier, both indicating oblique-normal faulting on similarly oriented planes. On the right a map view at $z = 10.4$ km of the Coulomb stress change imparted by the Mw 2.8 source on the mainshock receiver fault, which is negative and negligible in amplitude ($\Delta CFS = -15.7$ Pa). So no causal link between the two earthquakes.

Mw 4.1 04/08/2026 08:15:18 UTC
Lat: 43.6916 Lon: 10.3359 Depth: 9.9 km
(Uncertainty ± 1.7 km)



Ml 3.2 04/08/2026 11:04:11 UTC
Lat: 43.6924 Lon: 10.3395 Depth: 9.7 km
(Master Event Correction)



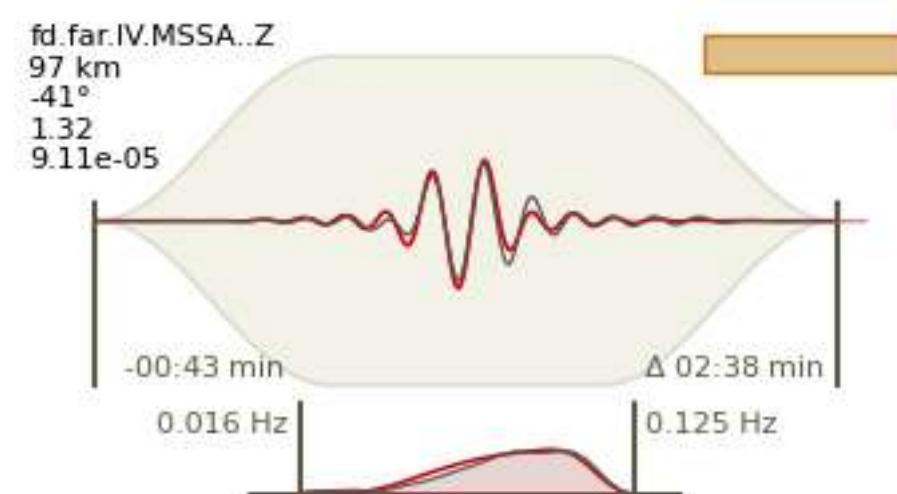
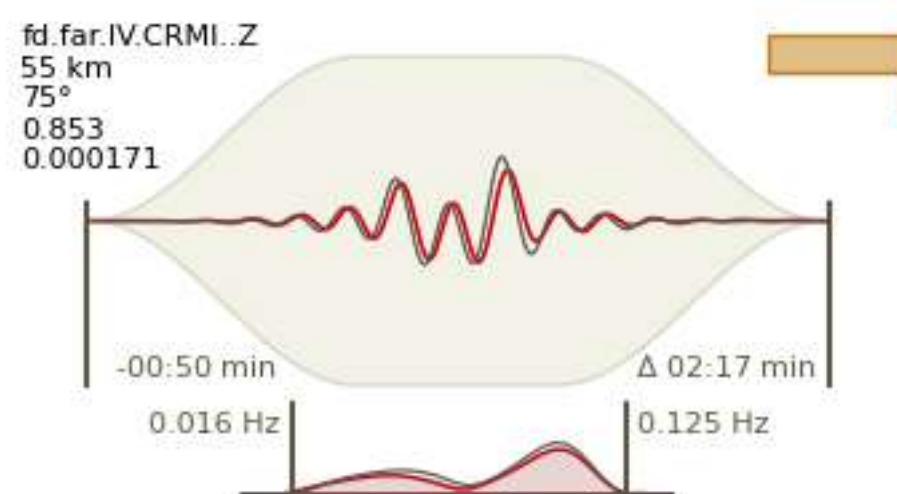
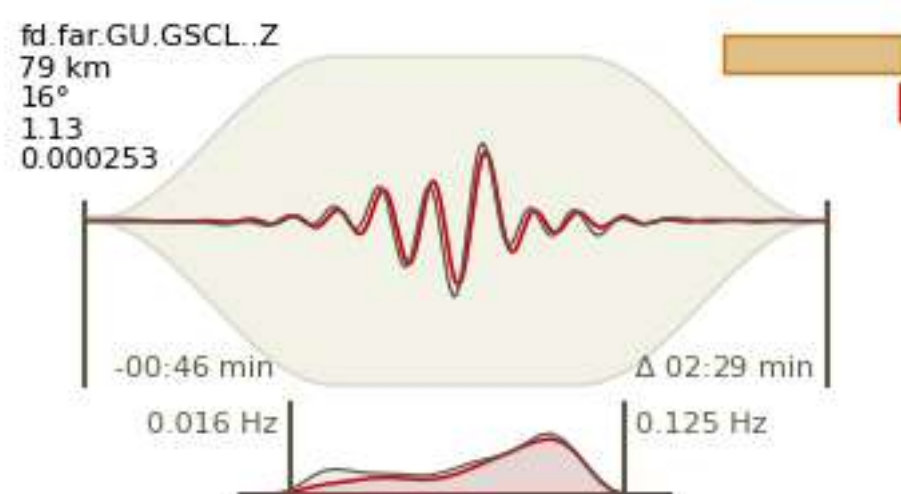
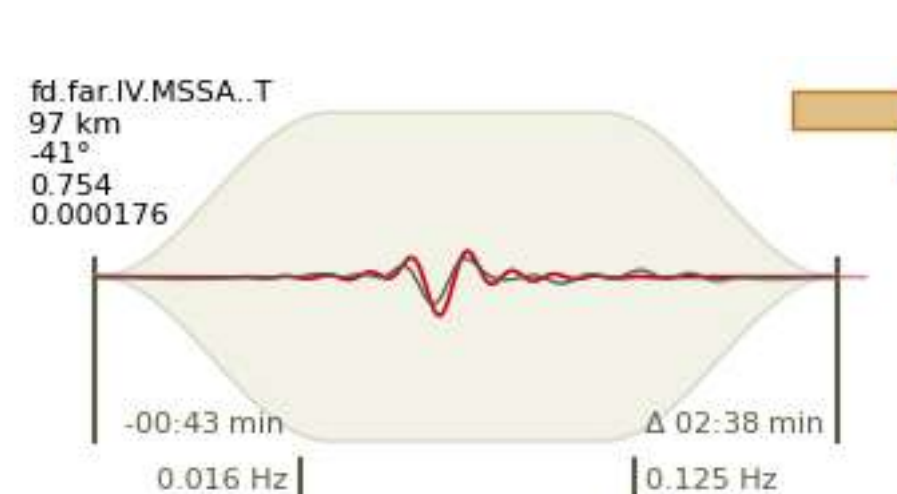
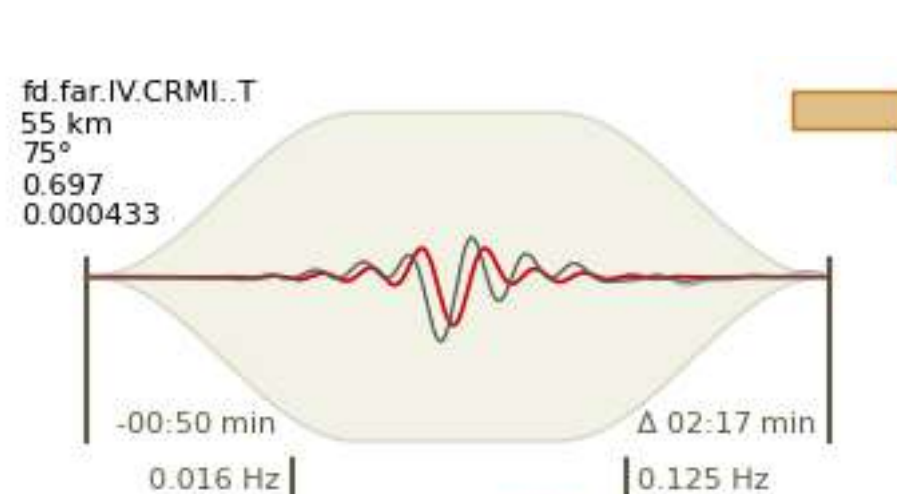
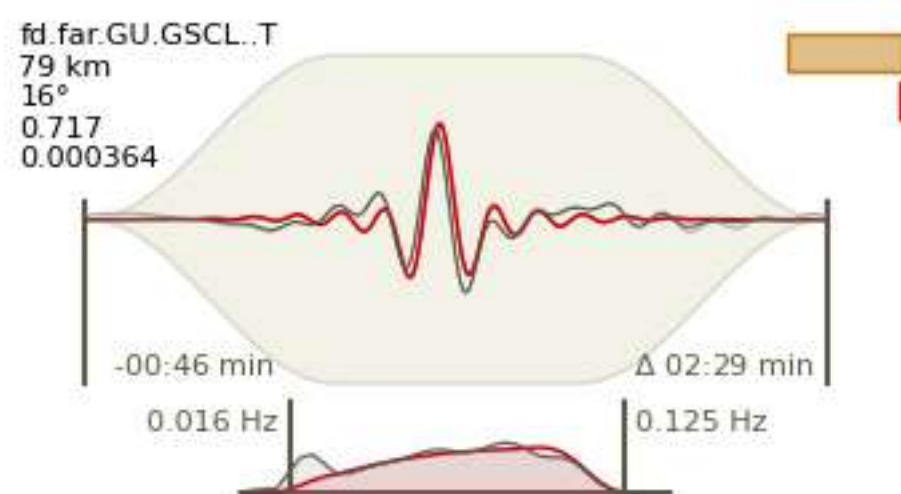
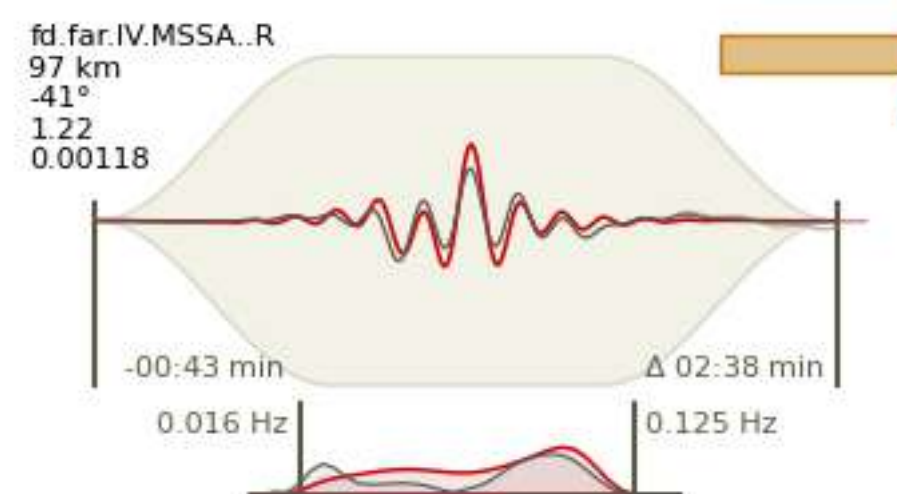
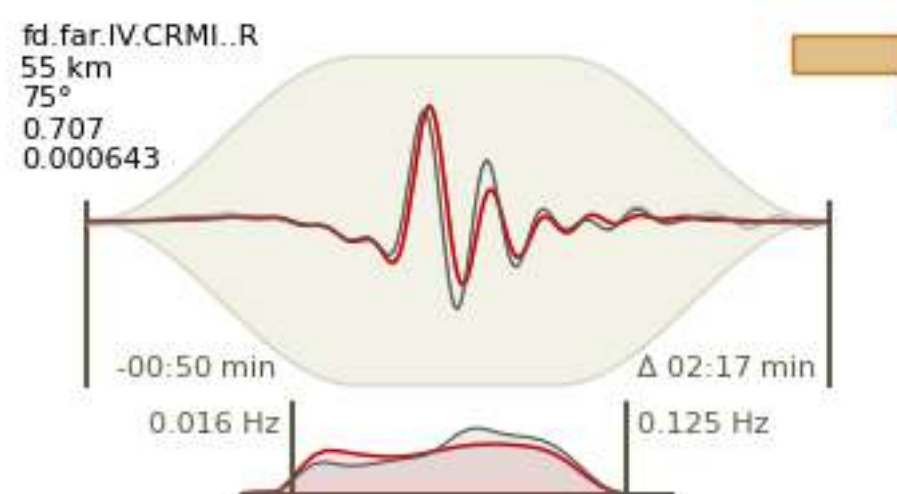
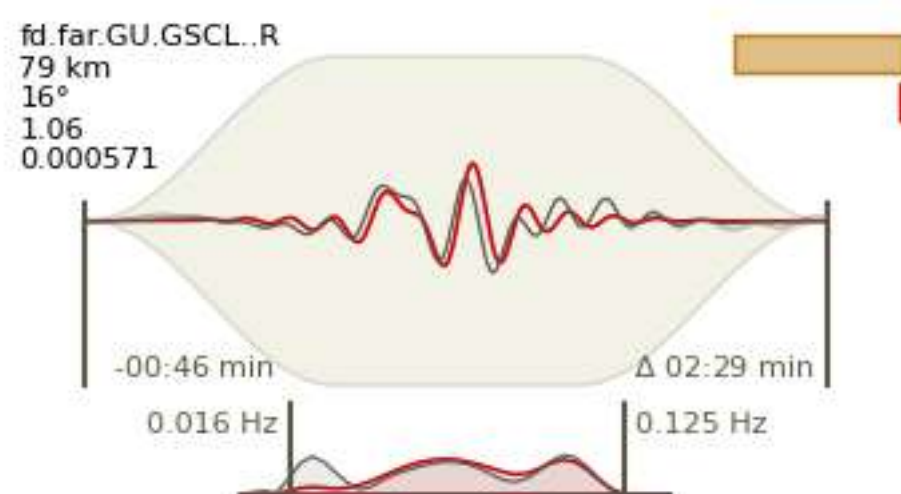


Mw 4.1

Strike1 311 $\pm$ 26 Strike2 172 $\pm$ 20

Dip1 50 $\pm$ 6 Dip2 48 $\pm$ 6

Rake1 -119 $\pm$ 28 Rake2 -60 $\pm$ 18



Full

Isotropic

Deviatoric

CLVD

DC

Ensemble best



-

N/A

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=



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Ensemble mean



-

N/A

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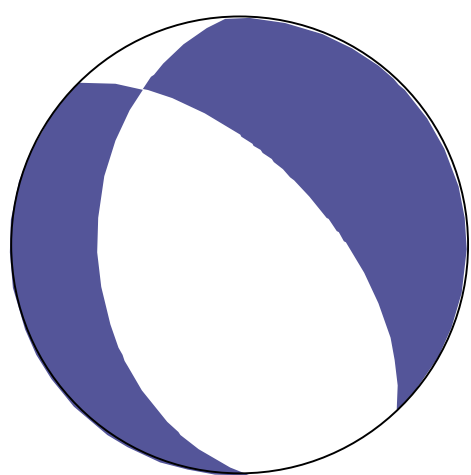


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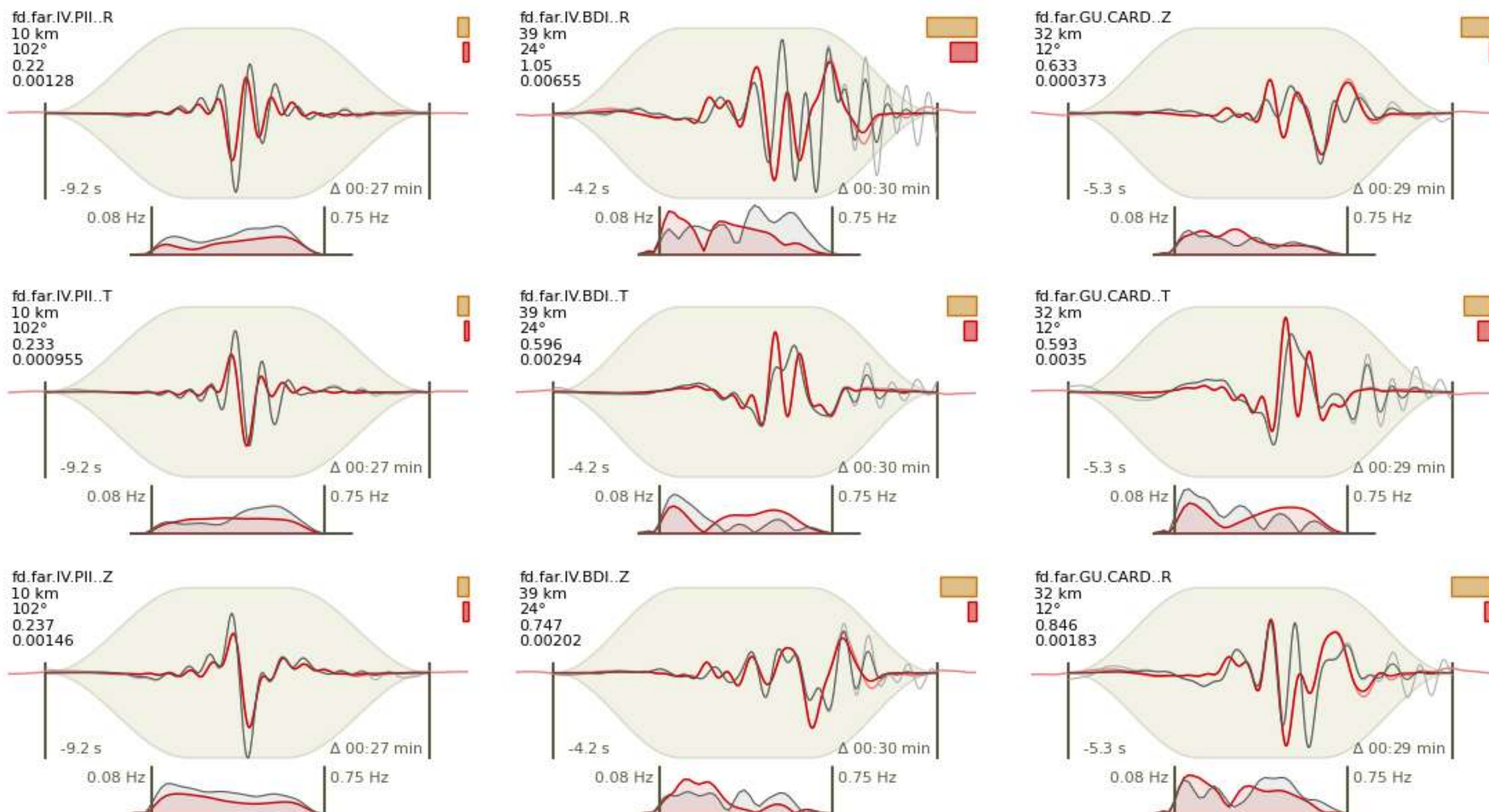


Mw 2.8

Strike1 316 $\pm$ 52 Strike2 177 $\pm$ 26

Dip1 59 $\pm$ 11 Dip2 39 $\pm$ 11

Rake1 -114 $\pm$ 22 Rake2 -56 $\pm$ 22



Full

Isotropic

Deviatoric

CLVD

DC

Ensemble best



-

N/A

=



=



+



Ensemble mean



-

N/A

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We wish to thank CISUP – Centro per l'Integrazione della Strumentazione dell'Università di Pisa – for the technical support and for granting permission to use the seismic stations of the UniPi network.

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