

## **SUPPLEMENTARY MATERIAL FOR**

# **REVISITING THE 1968 BELICE VALLEY (WESTERN SICILY) EARTHQUAKE SEQUENCE**

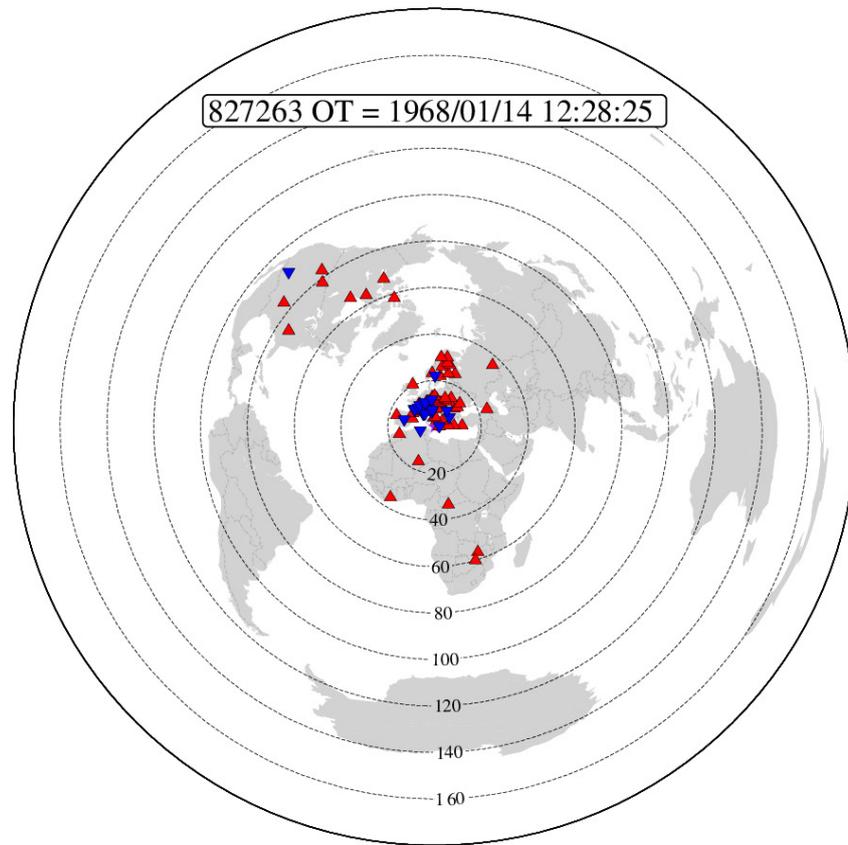
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Here are included additional Figures mentioned in the main text. In addition, the zipped archive available at <https://www.annalsofgeophysics.eu/index.php/annals/article/view/9504/8086> contains the dataset used for relocation, the MS reassessment and the csv or xls files corresponding to Tables S1-S3 mentioned in the main text (see README file at <https://www.annalsofgeophysics.eu/index.php/annals/article/view/9504/8086>).

Figure S1a-x show the station distribution for each earthquake, with the key events F1, M and A1 shown in Figs. S1d, S1e and S1p, respectively.



**Figure S1a.** Distribution of the stations contributing to the relocation reassessment for each earthquake in Table 1, starting with ISC\_Evid 827263 and continuing in chronological order until ISC\_Evid 824648 in Fig. S1x. The map shows the stations with data from the ISC Bulletin (red triangles) and the newly digitized ones from the BCIS (inverted blues triangles). Text lists the ISC\_Evid and origin time. Contours every 20° are for guidance, calculated from the epicentres listed in Table S1.

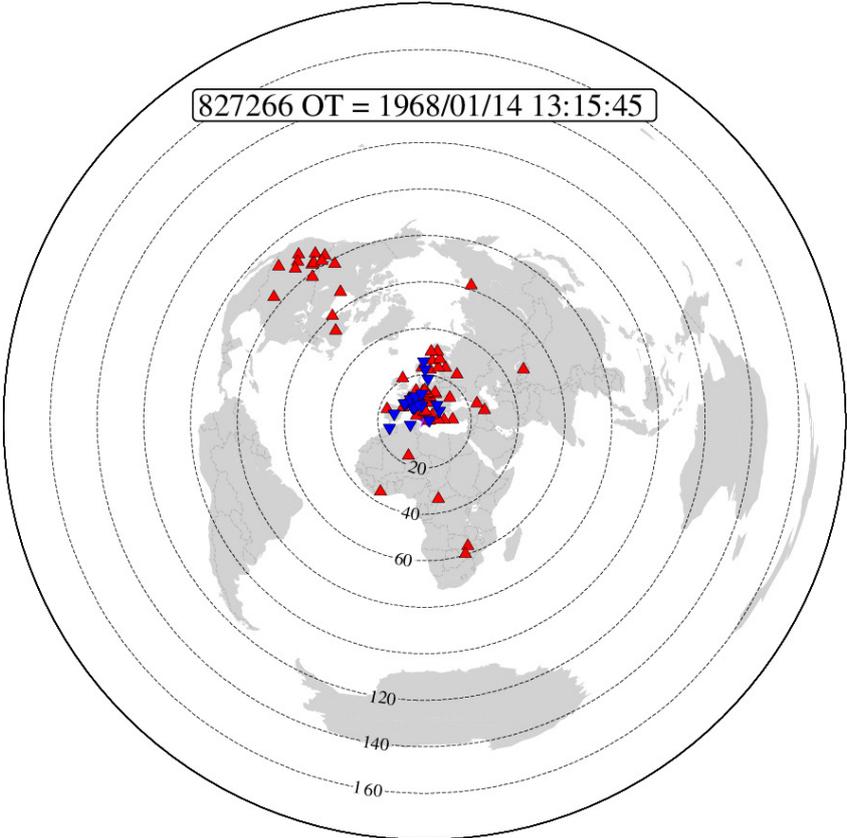


Figure S1b. As for Fig. S1a but for ISC\_Evid = 827266.

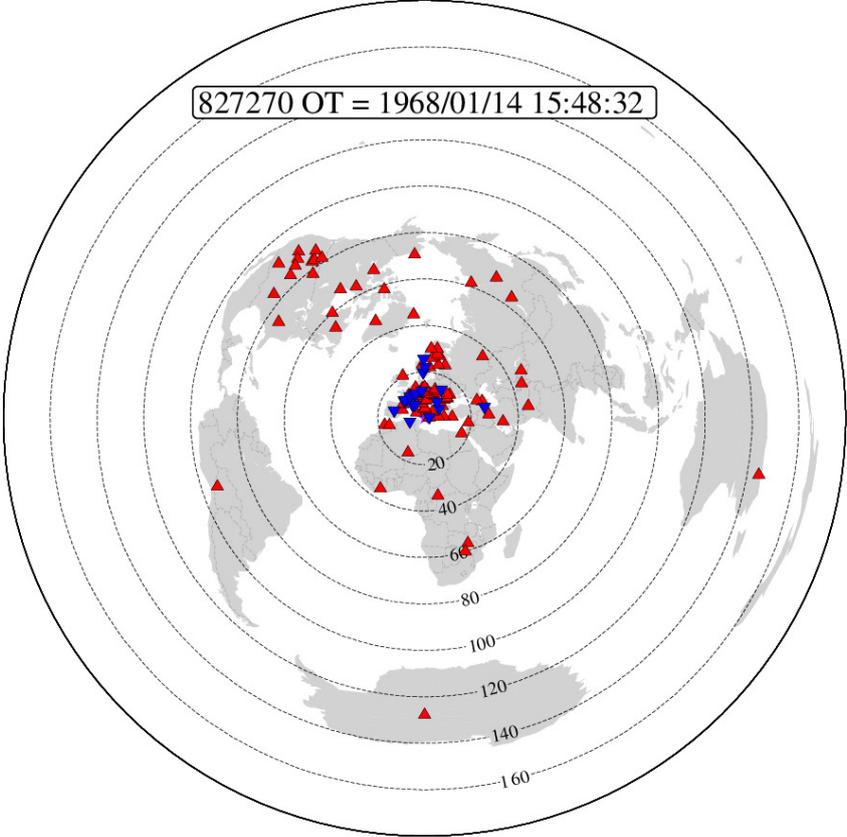


Figure S1c. As for Fig. S1a but for ISC\_Evid = 827270.

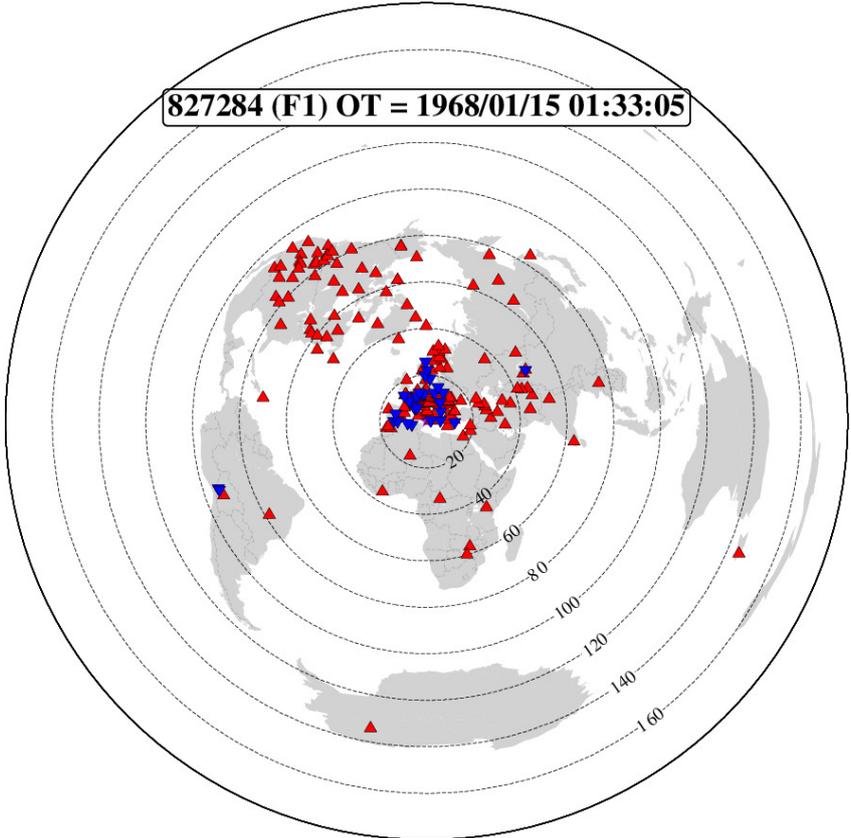


Figure S1d. As for Fig. S1a but for ISC\_Evid = 827284. This earthquake is the largest foreshock (F1).

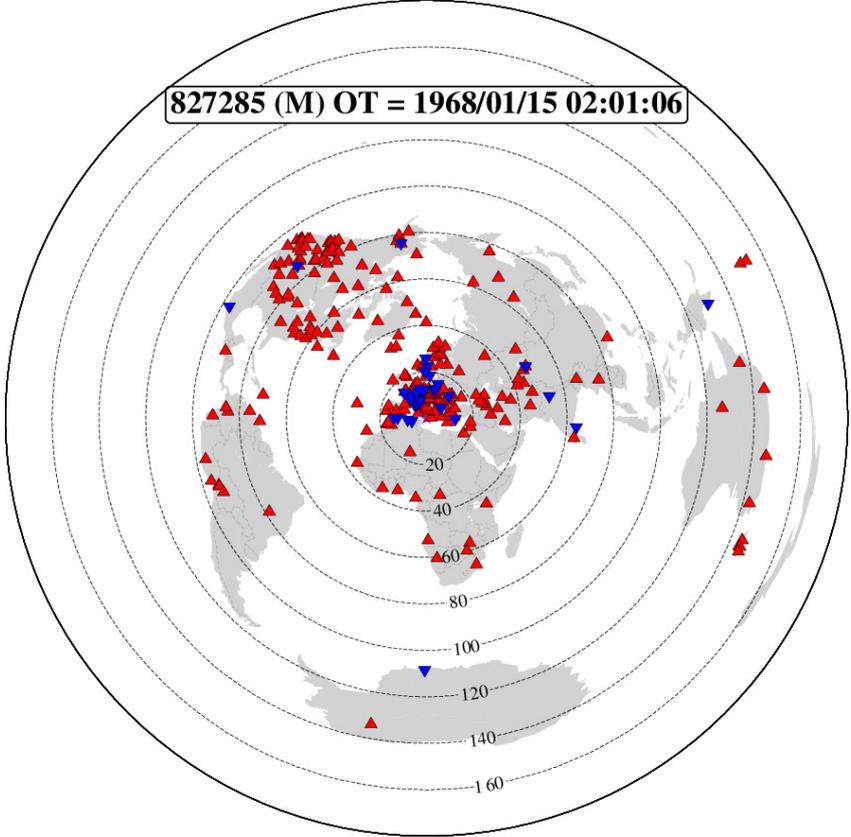


Figure S1e. As for Fig. S1a but for ISC\_Evid = 827285. This earthquake is the mainshock (M).

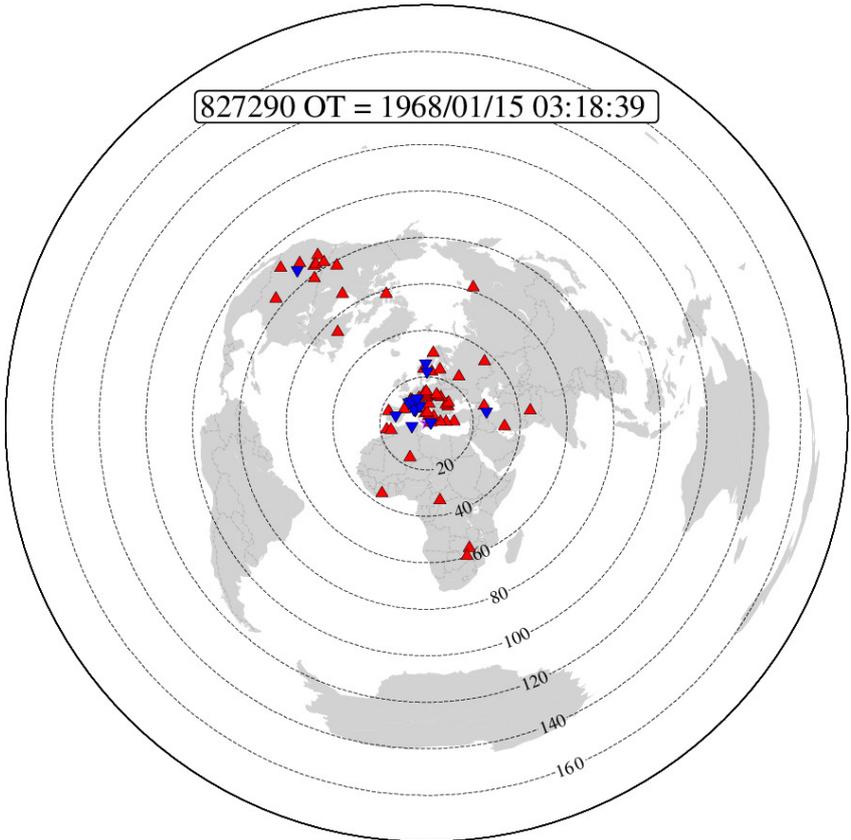


Figure S1f. As for Fig. S1a but for ISC\_Evid = 827290.

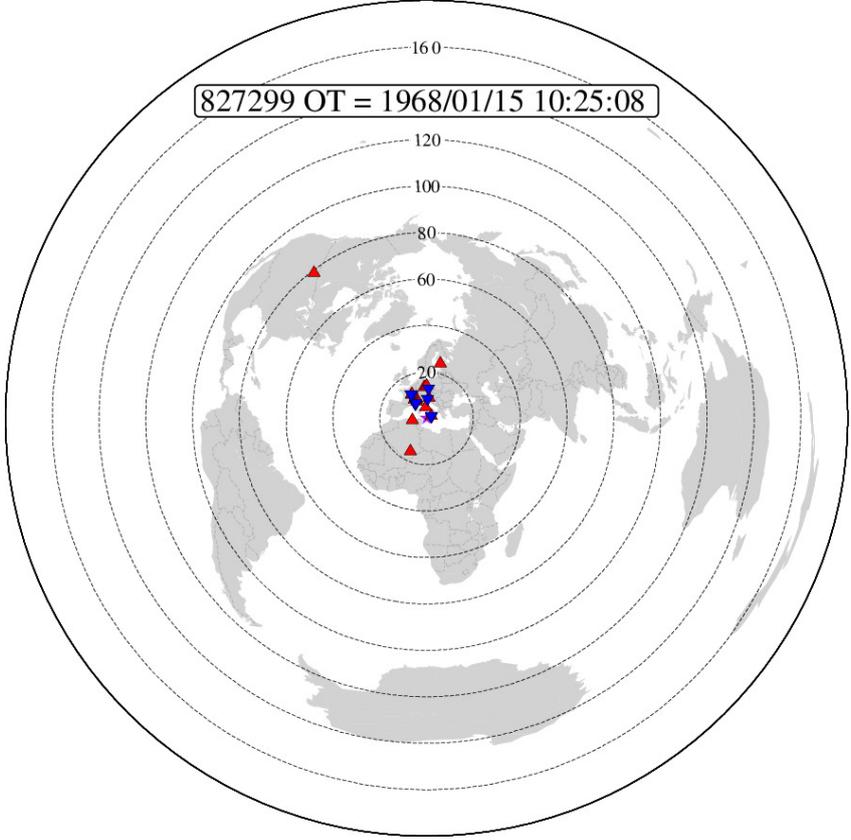


Figure S1g. As for Fig. S1a but for ISC\_Evid = 827299.

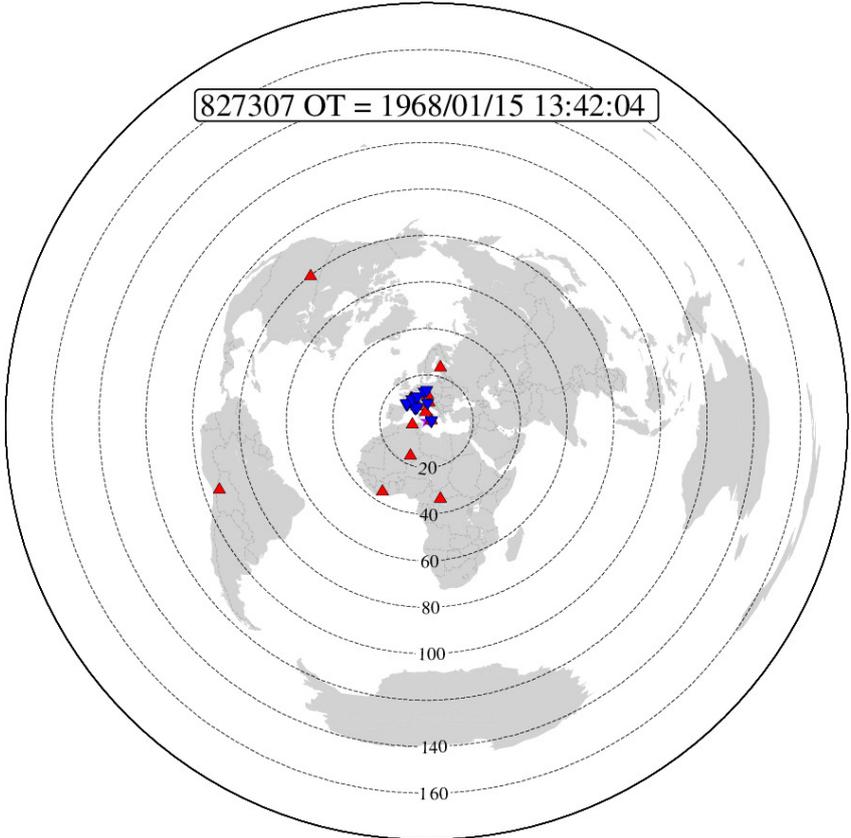


Figure S1h. As for Fig. S1a but for ISC\_Evid = 827307.

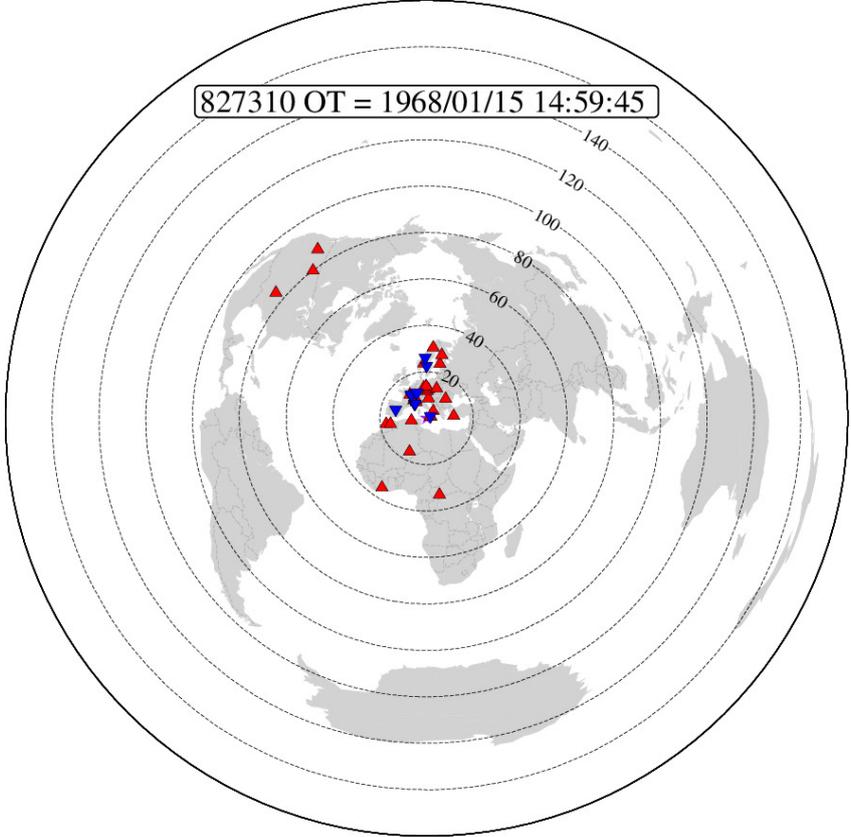


Figure S1i. As for Fig. S1a but for ISC\_Evid = 827310.

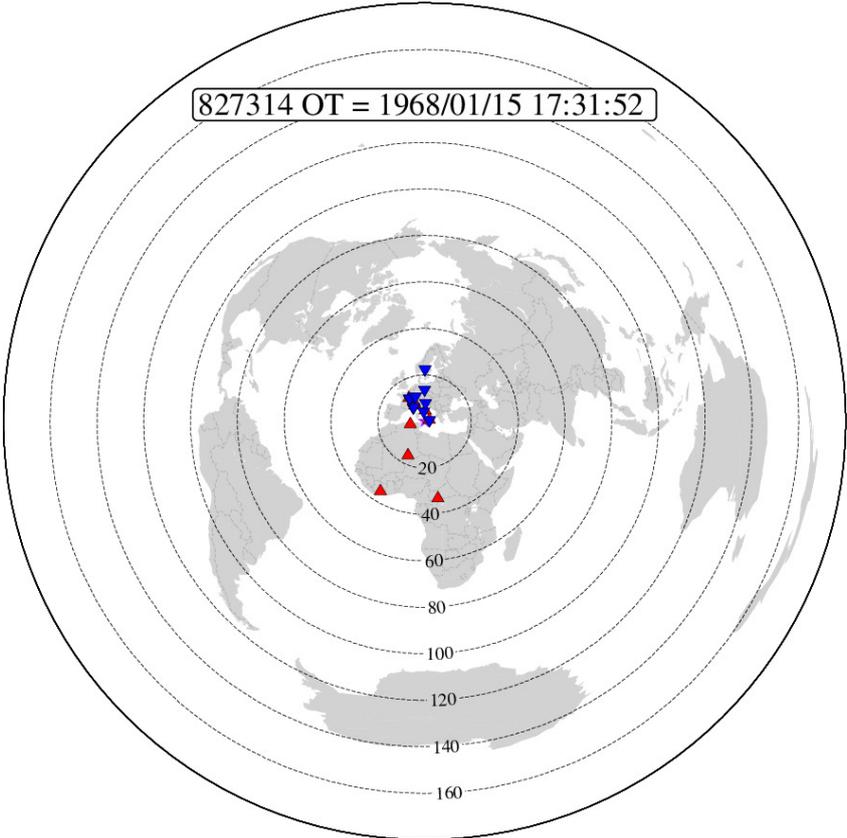


Figure S1j. As for Fig. S1a but for ISC\_Evid = 827314.

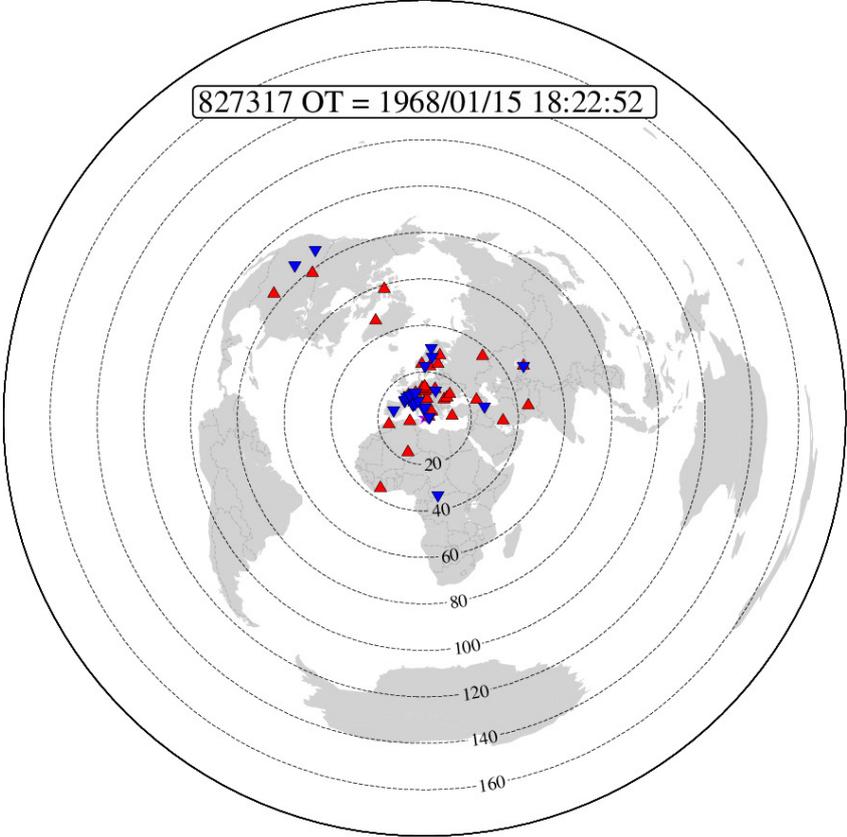


Figure S1k. As for Fig. S1a but for ISC\_Evid = 827317.

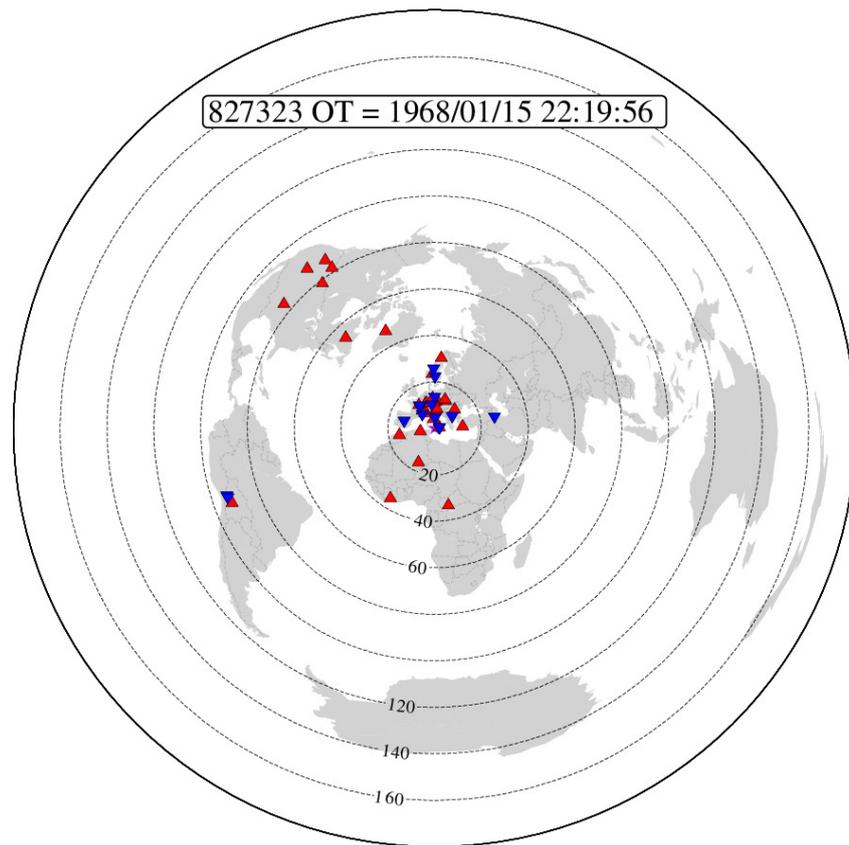


Figure S1l. As for Fig. S1a but for ISC\_Evid = 827323.

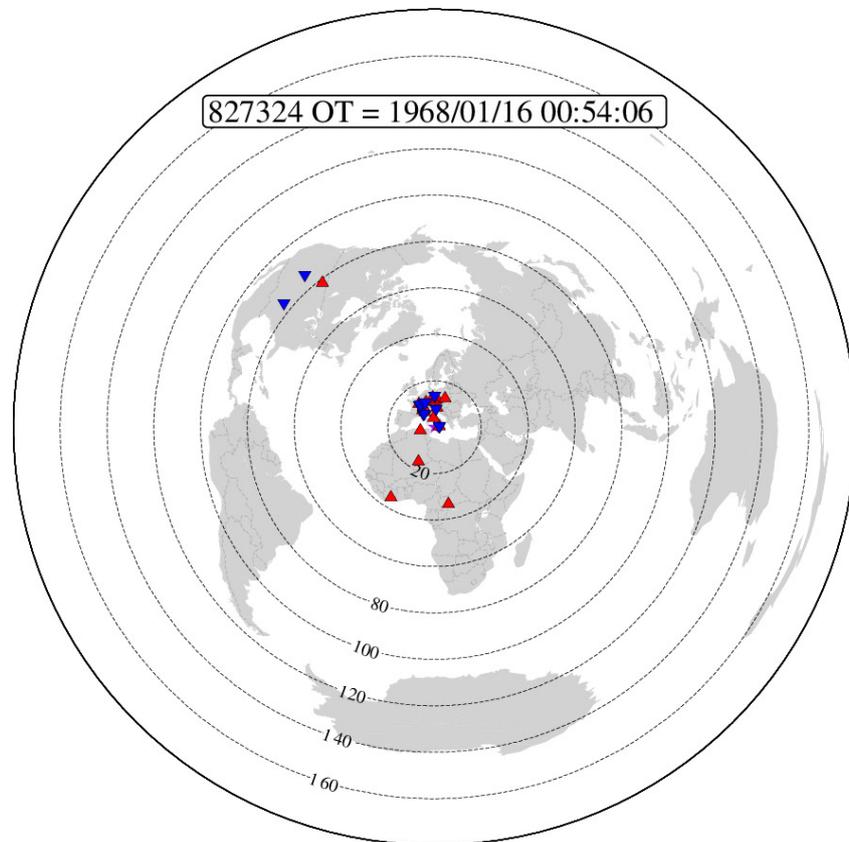


Figure S1m. As for Fig. S1a but for ISC\_Evid = 827324.

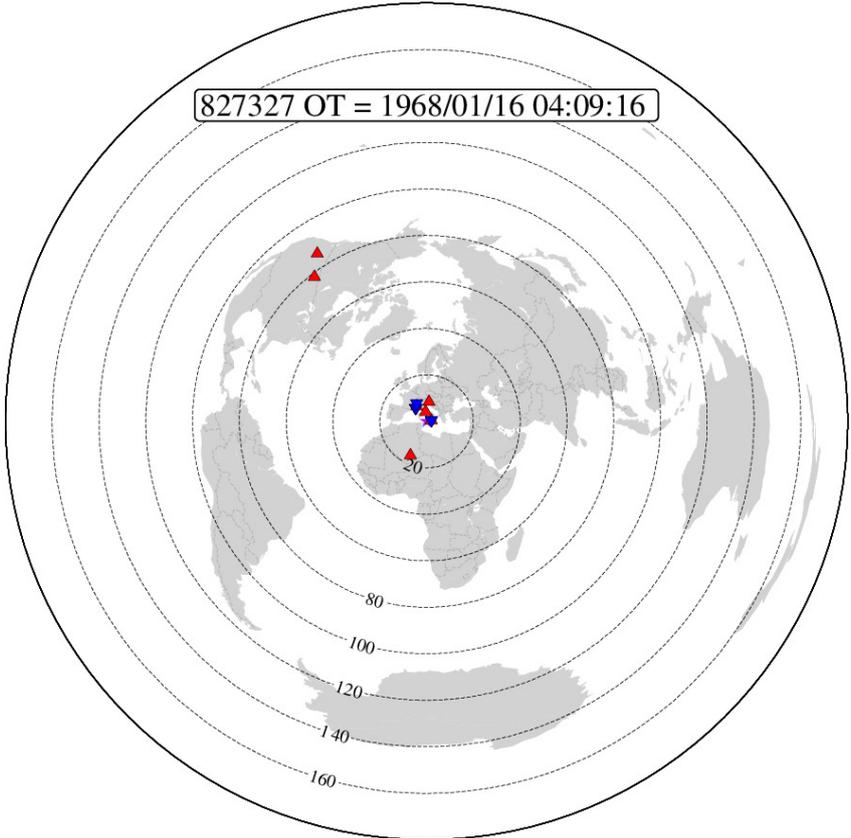


Figure S1n. As for Fig. S1a but for ISC\_Evid = 827327.

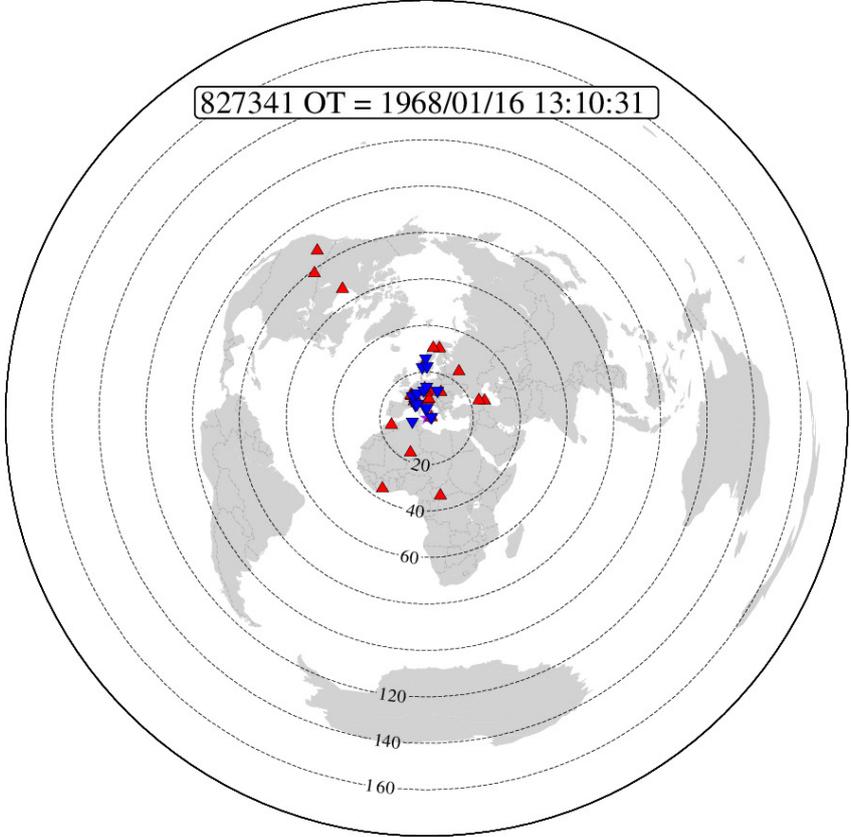


Figure S1o. As for Fig. S1a but for ISC\_Evid = 827341.

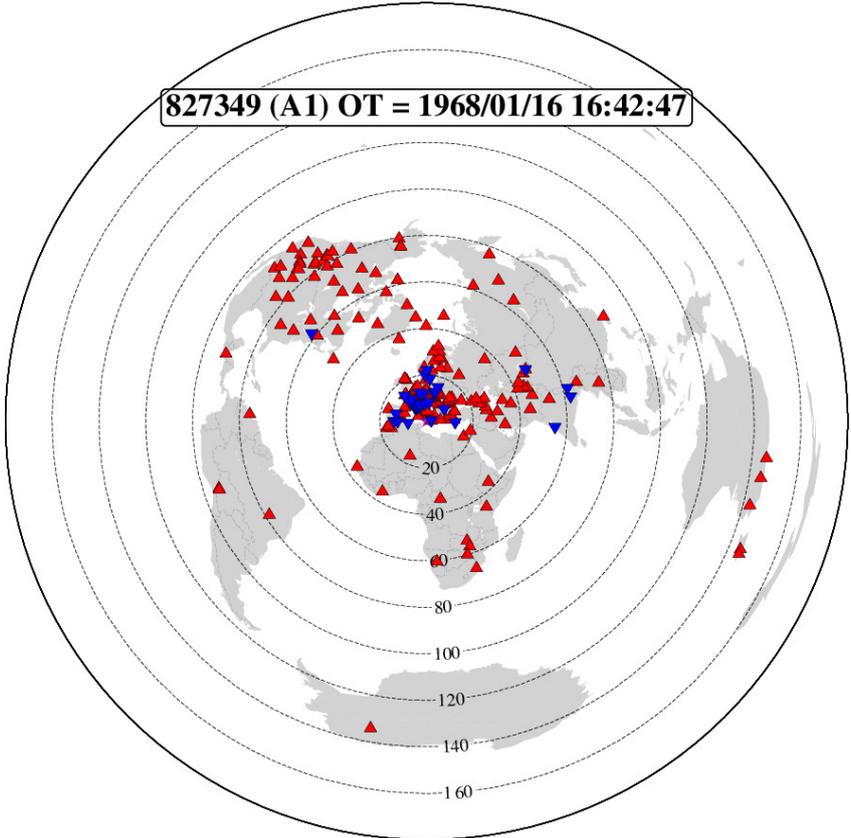


Figure S1p. As for Fig. S1a but for ISC\_Evid = 827349. This earthquake is the largest foreshock (A1).

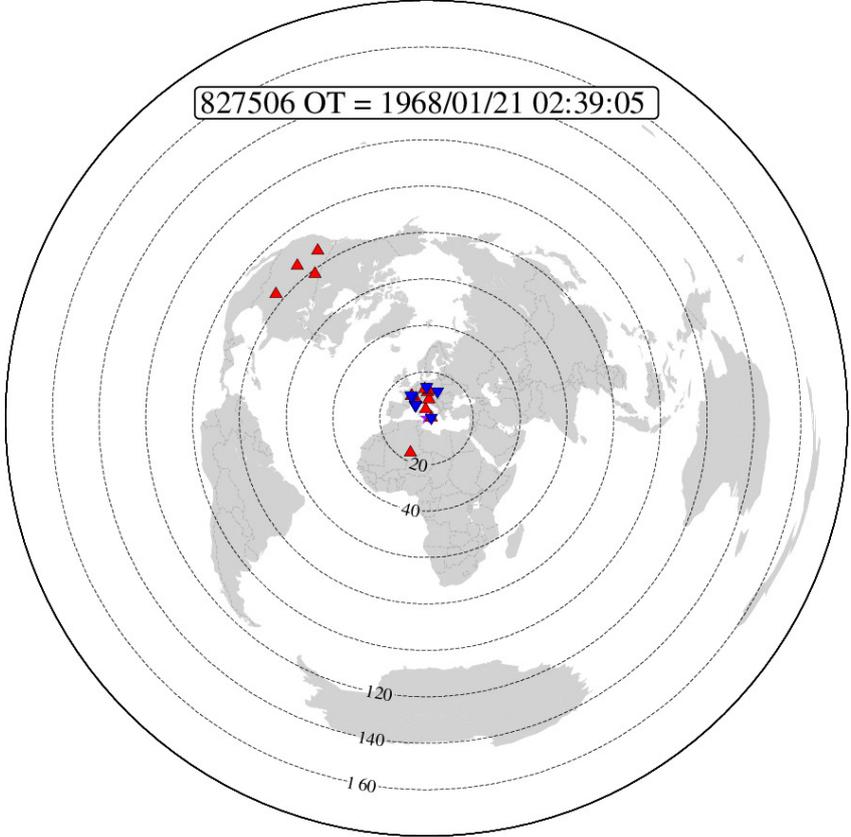


Figure S1q. As for Fig. S1a but for ISC\_Evid = 827506.

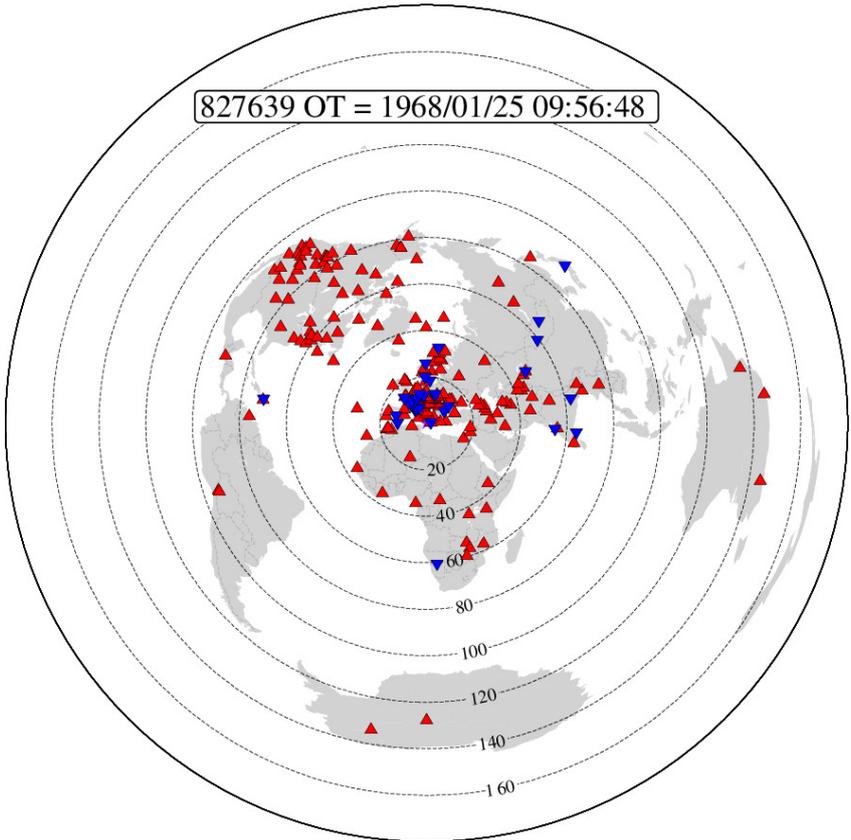


Figure S1r. As for Fig. S1a but for ISC\_Evid = 827639.

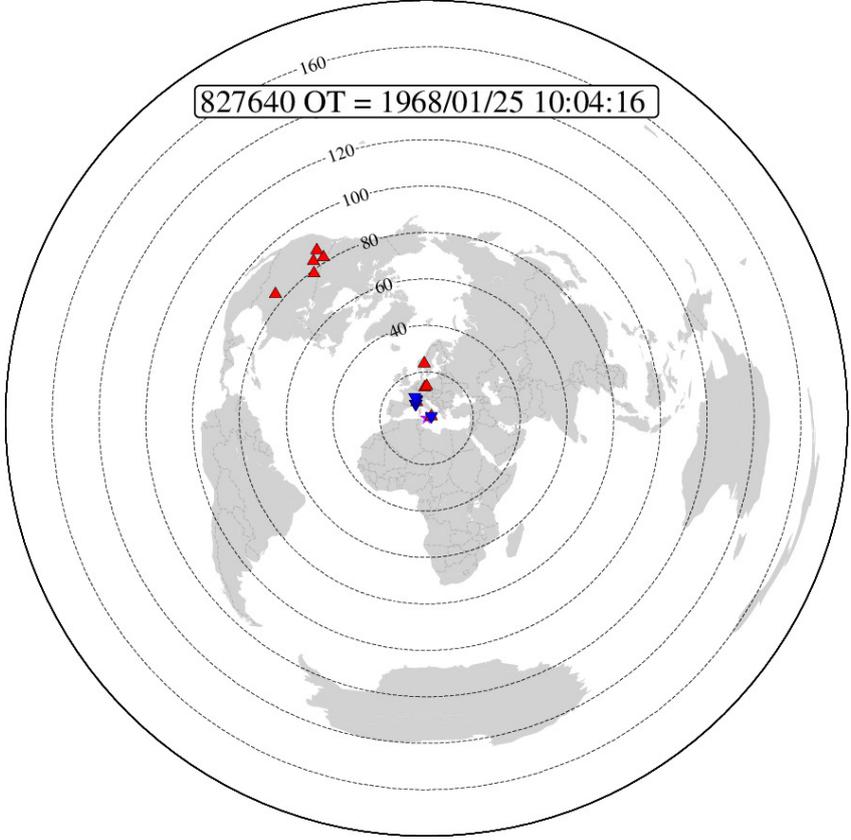


Figure S1s. As for Fig. S1a but for ISC\_Evid = 827640.

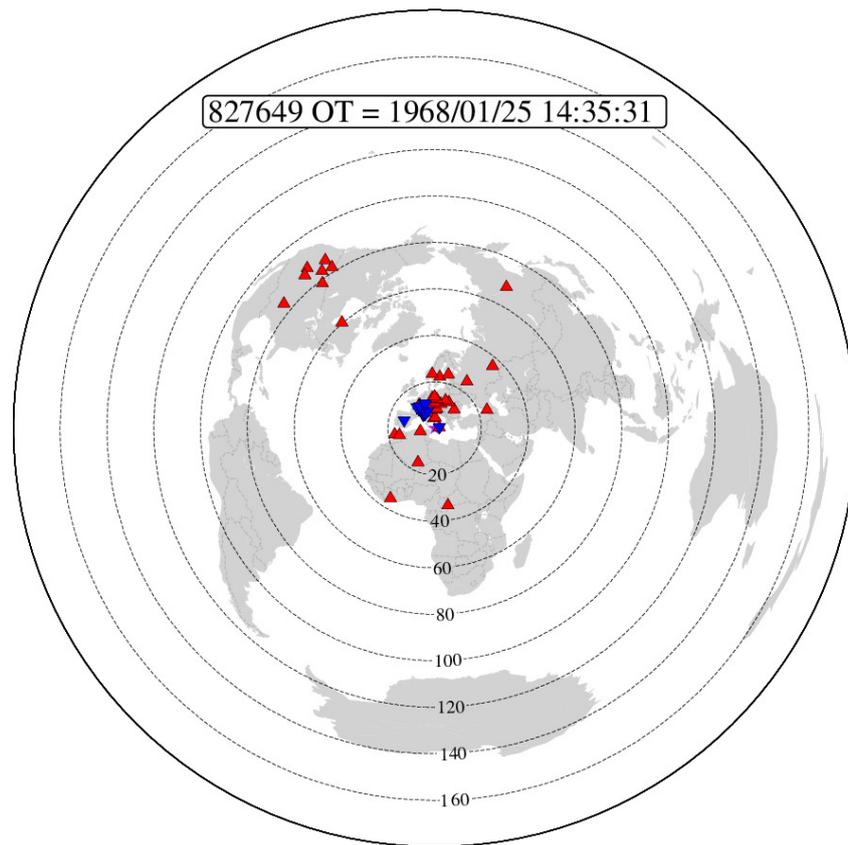


Figure S1t. As for Fig. S1a but for ISC\_Evid = 827649.

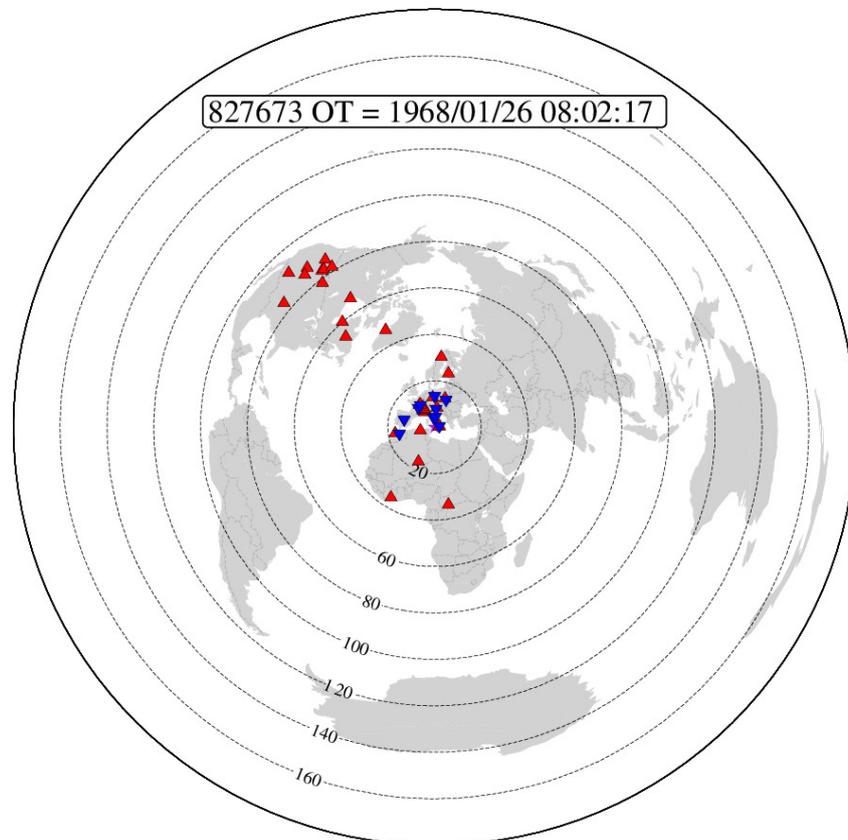


Figure S1u. As for Fig. S1a but for ISC\_Evid = 827673.

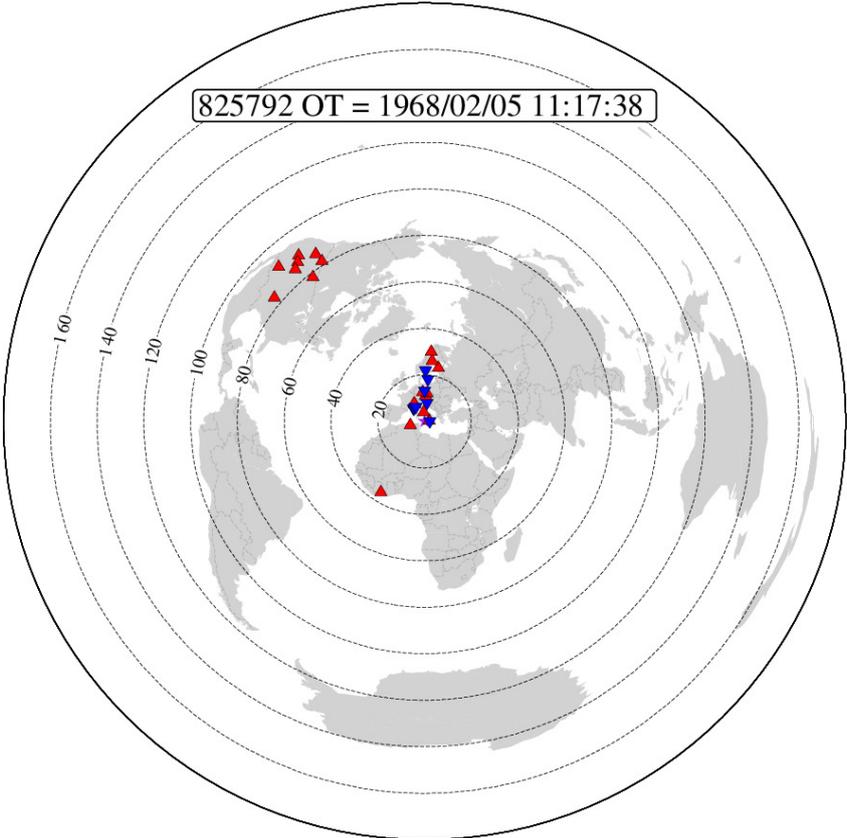


Figure S1v. As for Fig. S1a but for ISC\_Evid = 825792.

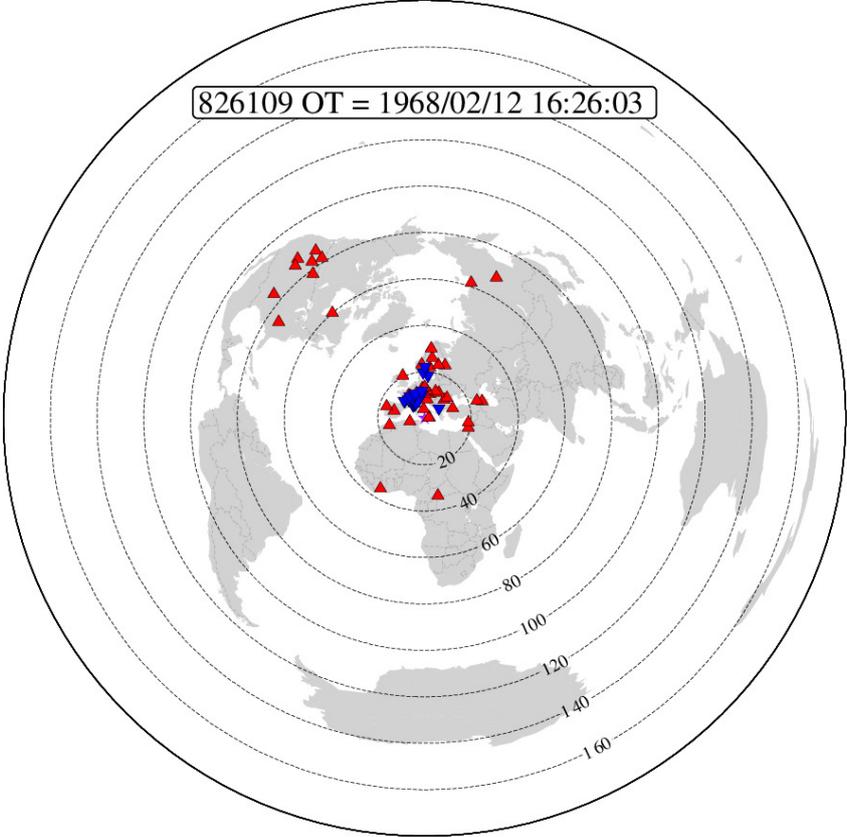


Figure S1w. As for Fig. S1a but for ISC\_Evid = 826109.

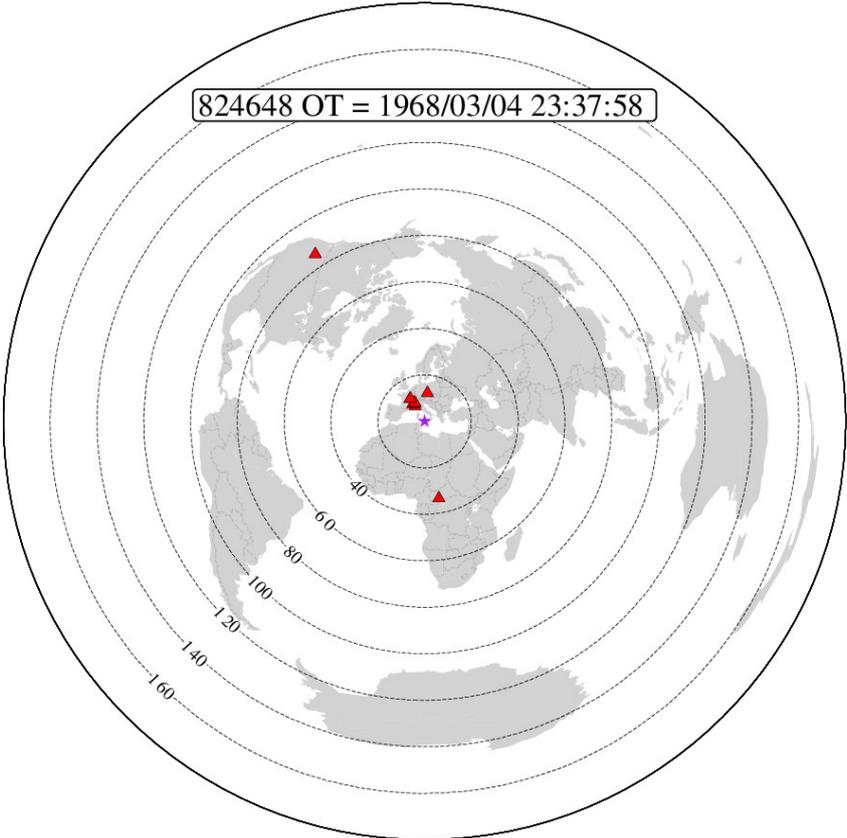


Figure S1x. As for Fig. S1a but for ISC\_Evid = 824648.

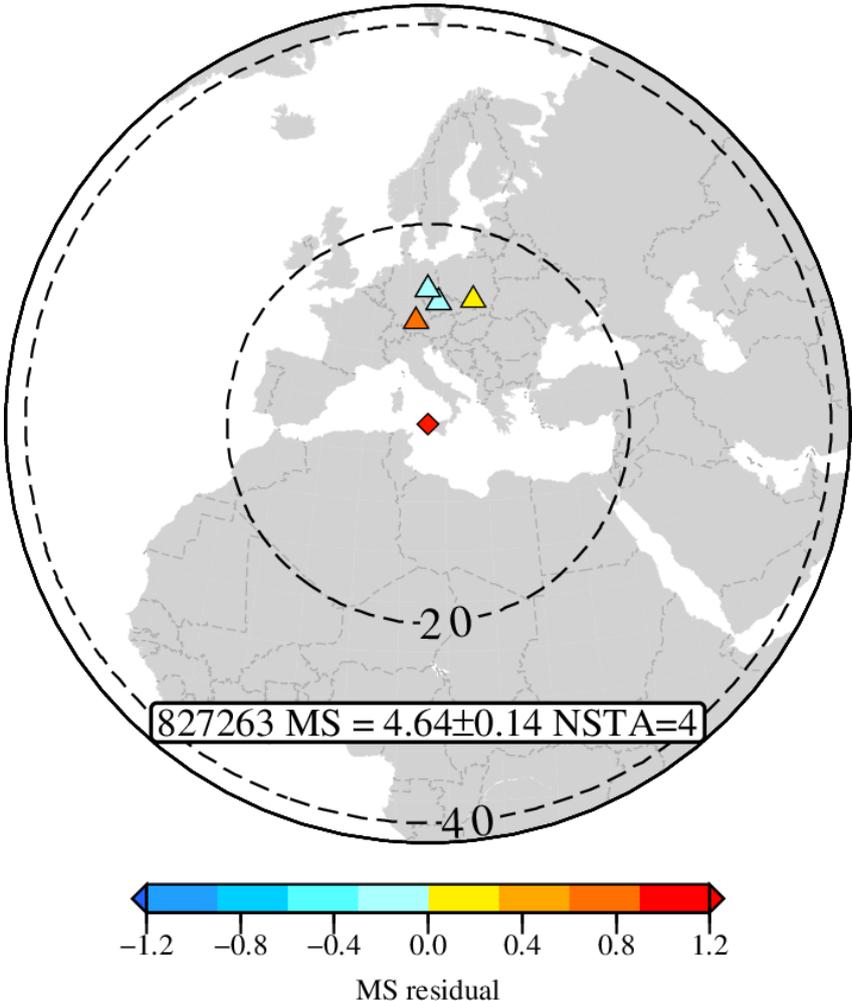


Figure S2a. Distribution of the stations contributing to the MS reassessment for ISC\_Evid = 827263. As in Fig. 4, red diamonds are the earthquake epicentres, triangles are the stations colour coded by magnitude residuals. Text lists the ISC\_Evid, the network MS and the corresponding uncertainty as well as the number of stations used.

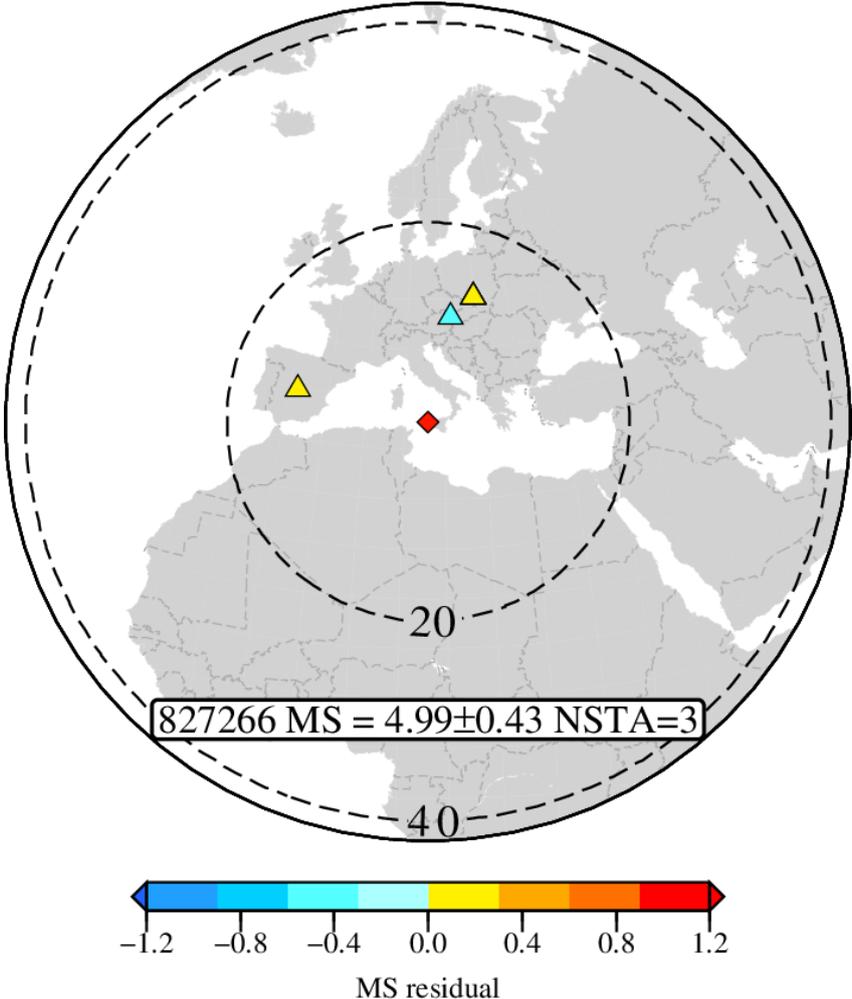


Figure S2b. As for Fig. S2a but for ISC\_Evid = 827266.

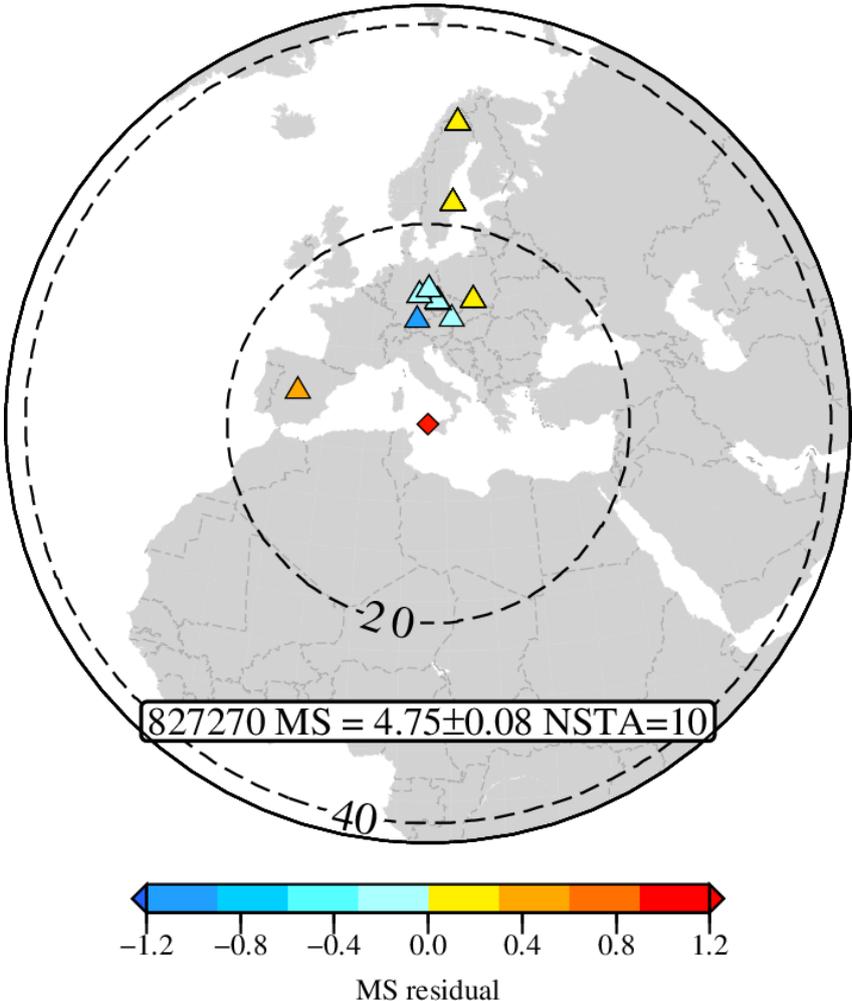


Figure S2c. As for Fig. S2a but for ISC\_Evid = 827270.

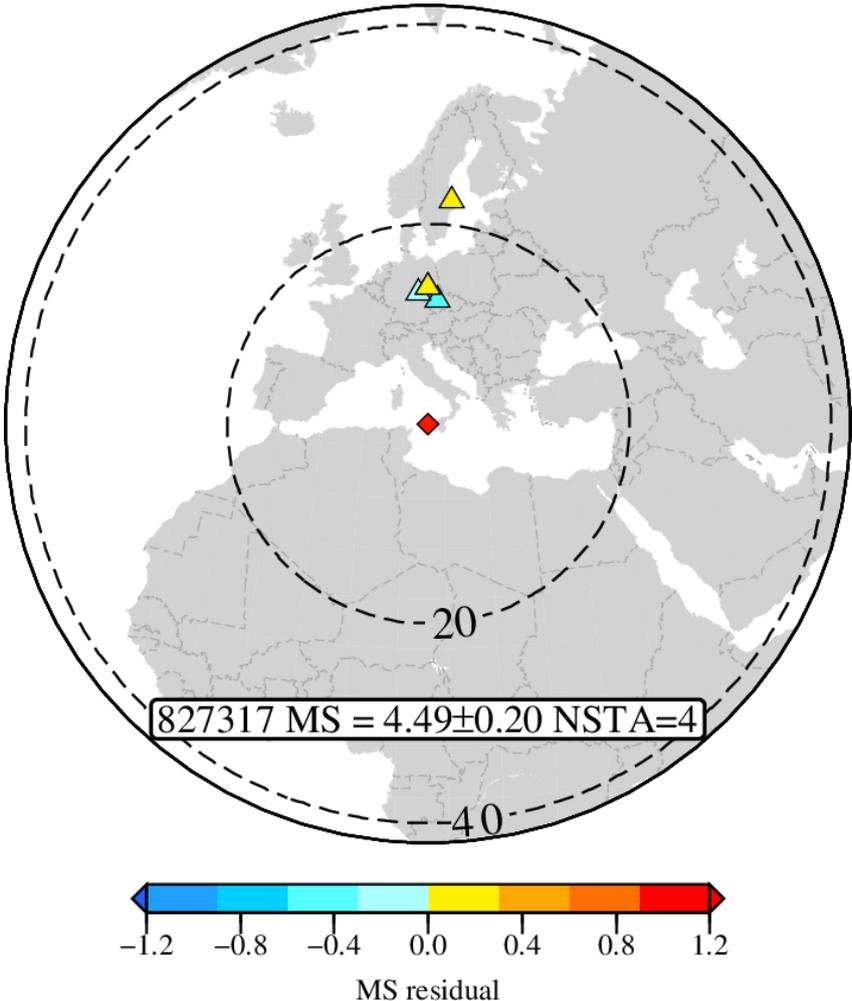


Figure S2d. As for Fig. S2a but for ISC\_Evid = 827317.

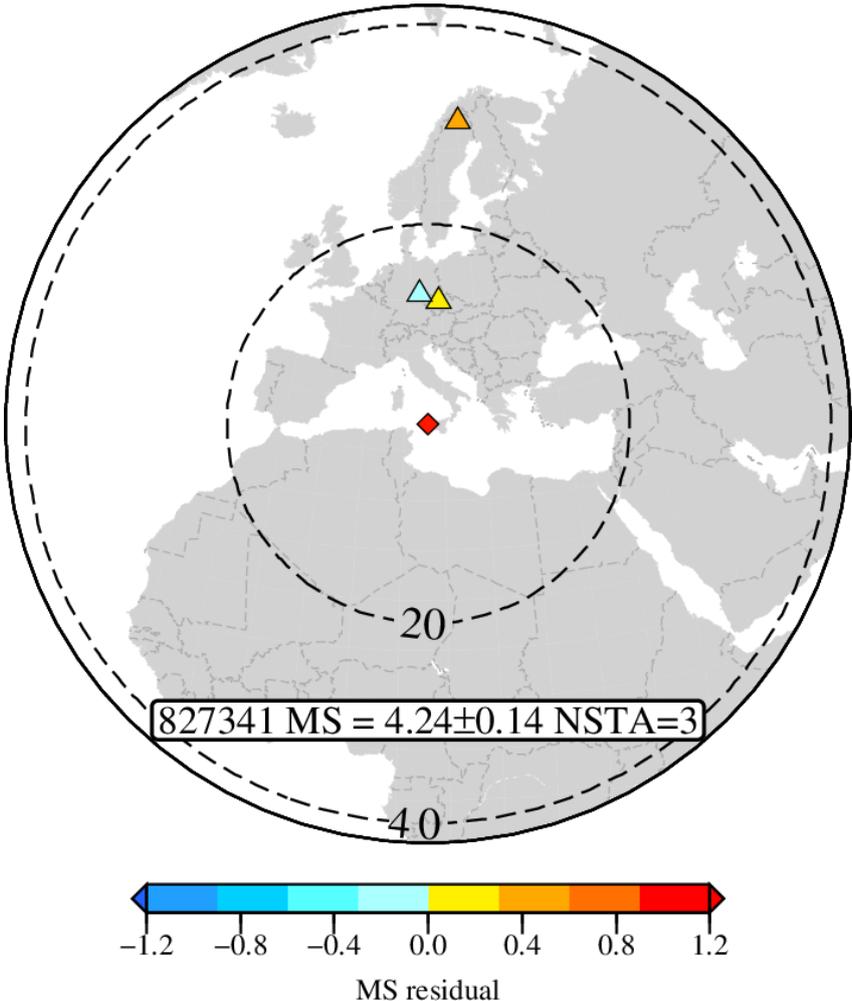


Figure S2e. As for Fig. S2a but for ISC\_Evid = 827341.

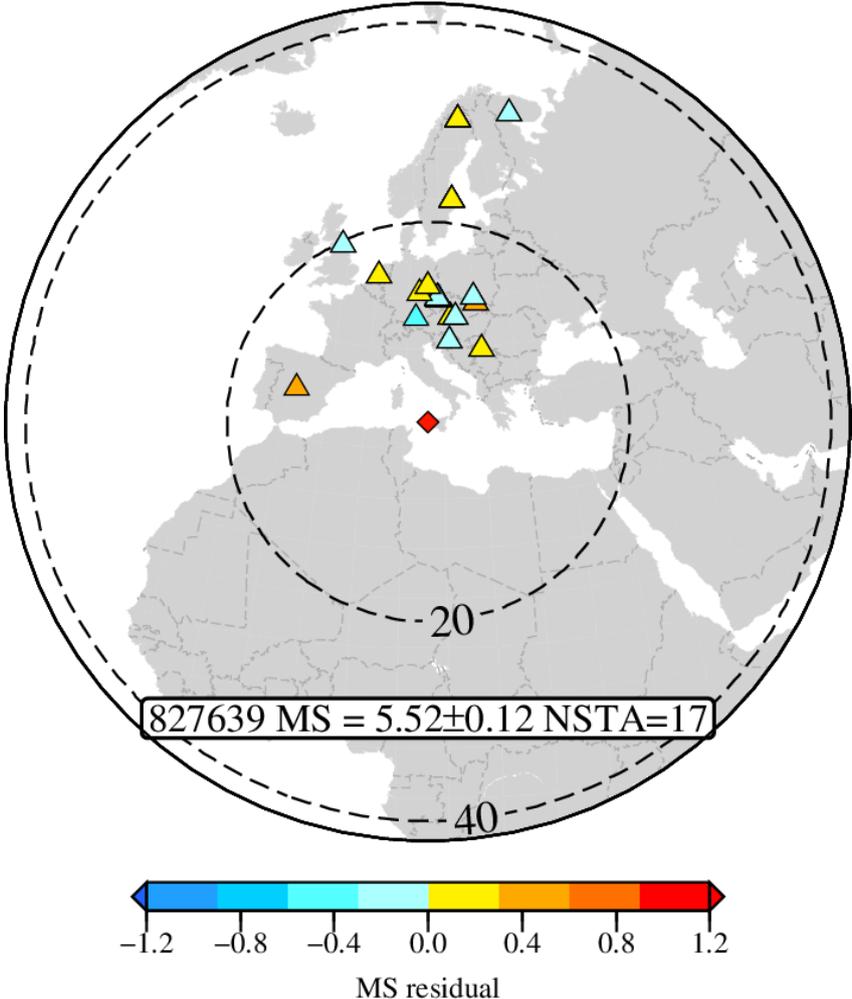


Figure S2f. As for Fig. S2a but for ISC\_Evid = 827639.

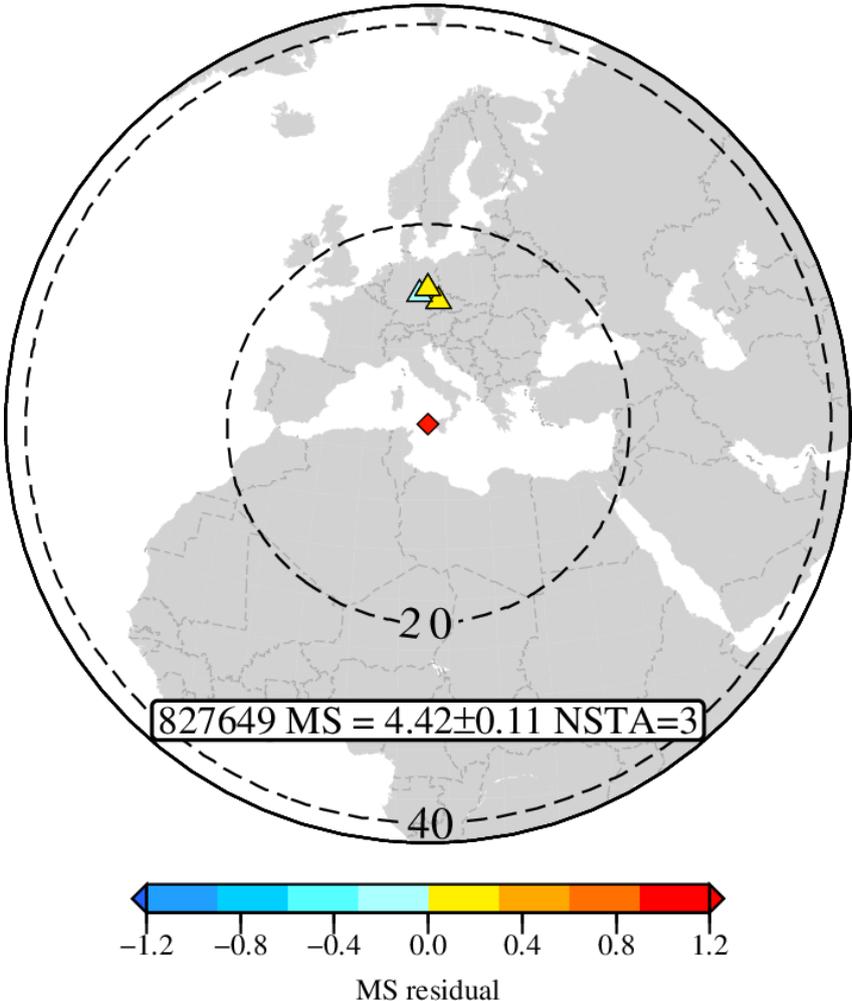


Figure S2g. As for Fig. S2a but for ISC\_Evid = 827649.

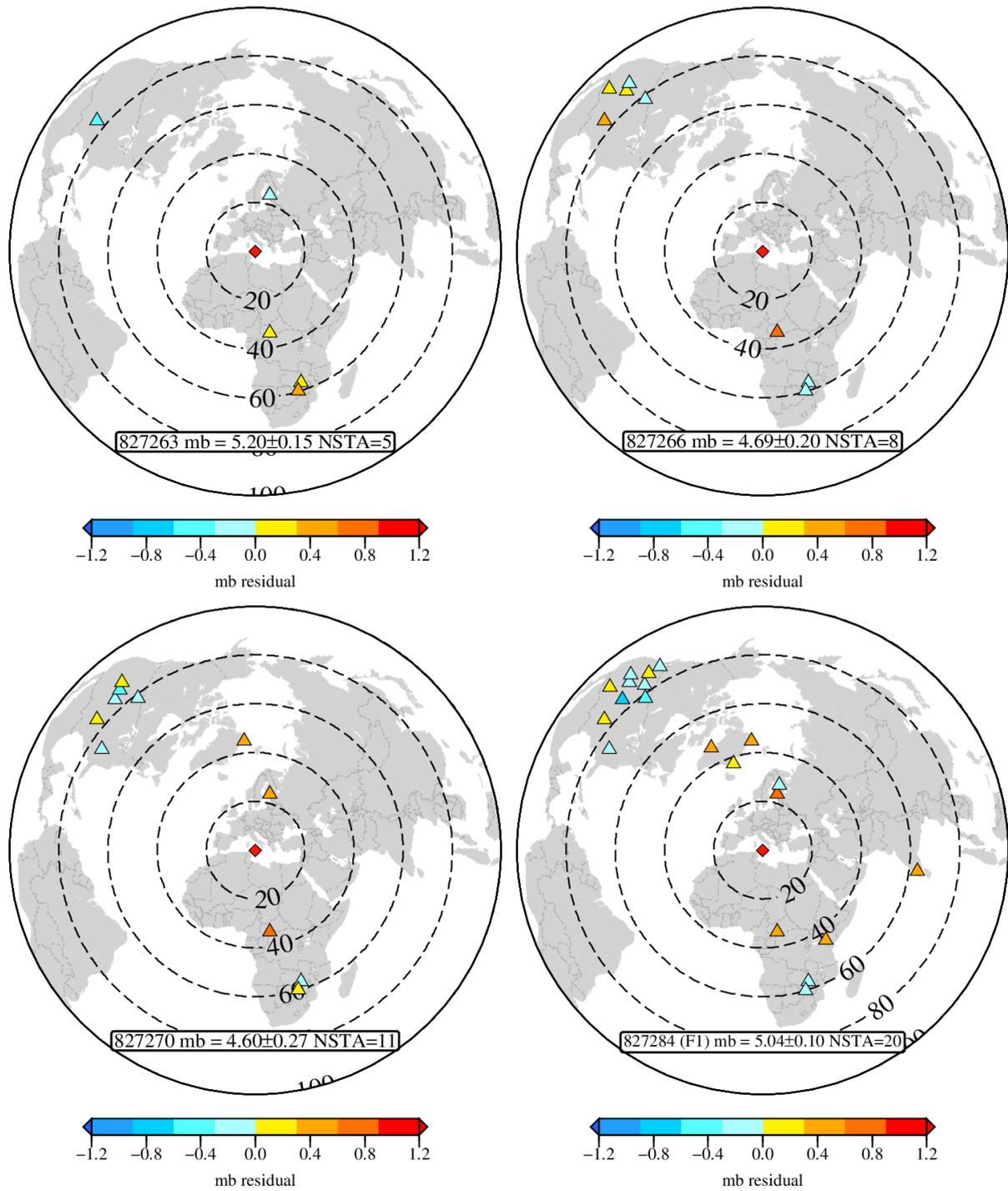


Figure S3a. As in Fig. S2 but for mb and for ISC\_Evid 827263, 827266, 827270 and 827284 (F1).

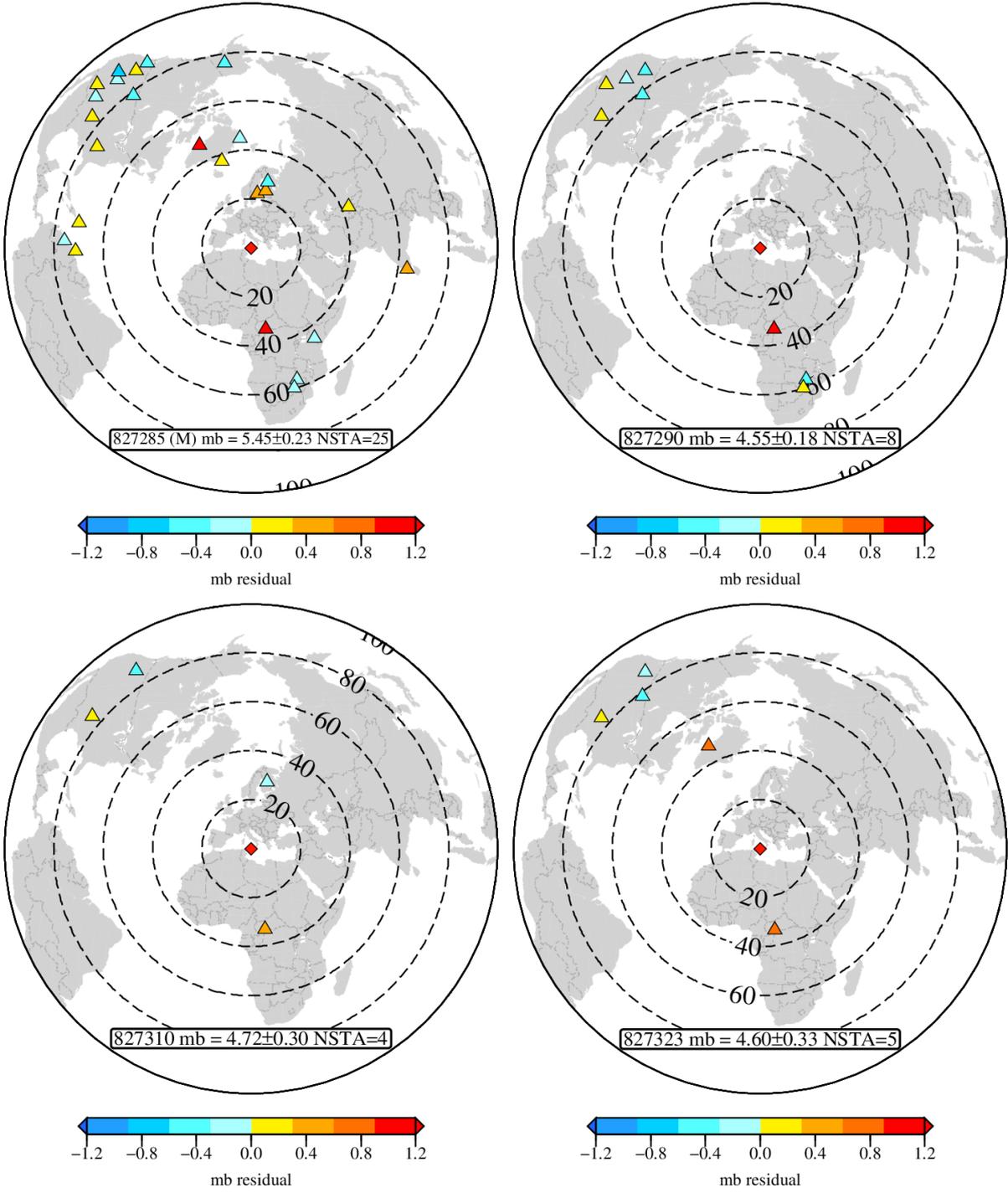


Figure S3b. As in Fig. S3a but for ISC\_Evid 827285 (M), 827290, 827310 and 827323.

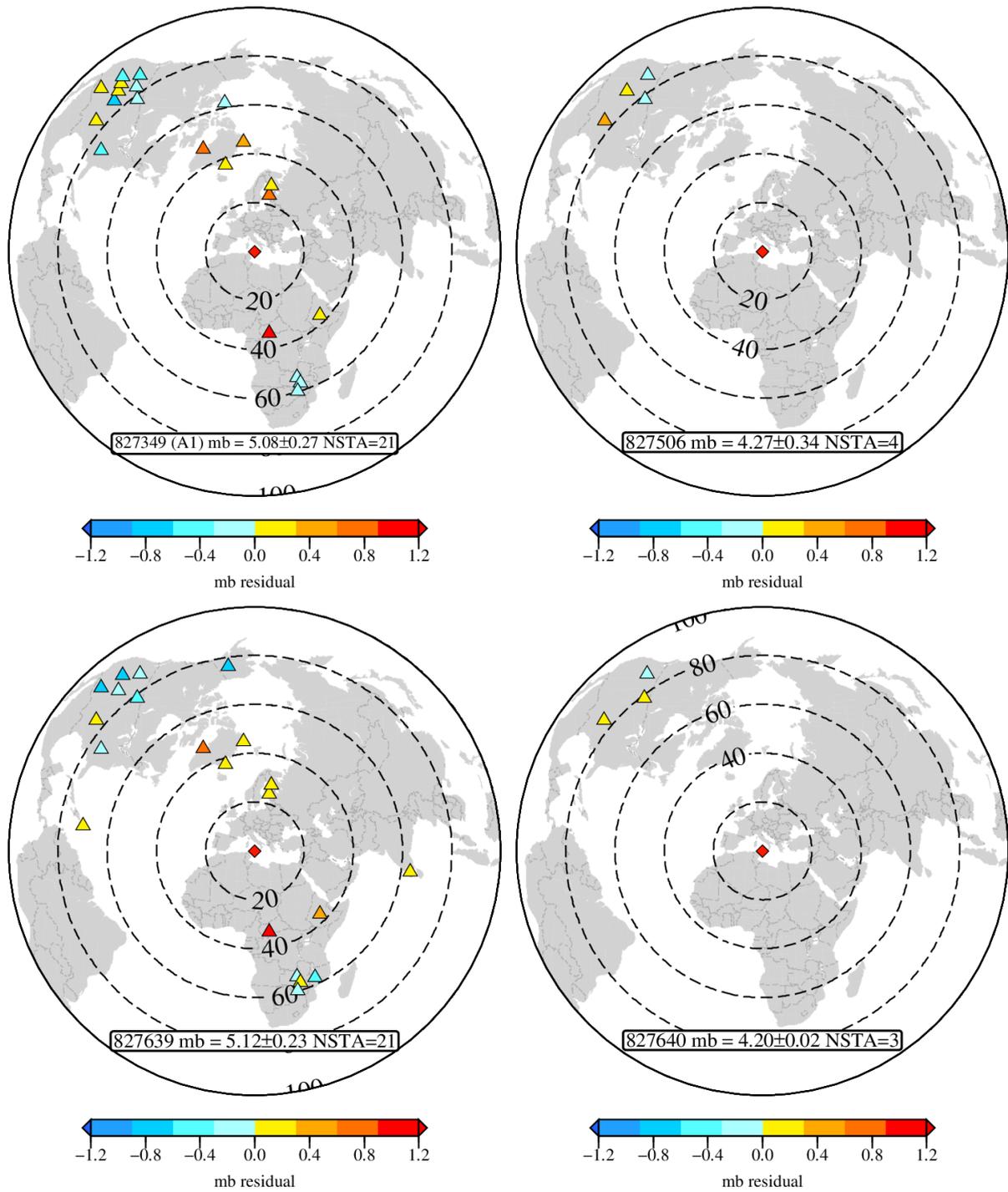


Figure S3c. As in Fig. S3a but for ISC\_Evid 827349 (A1), 827506, 827639 and 827640.

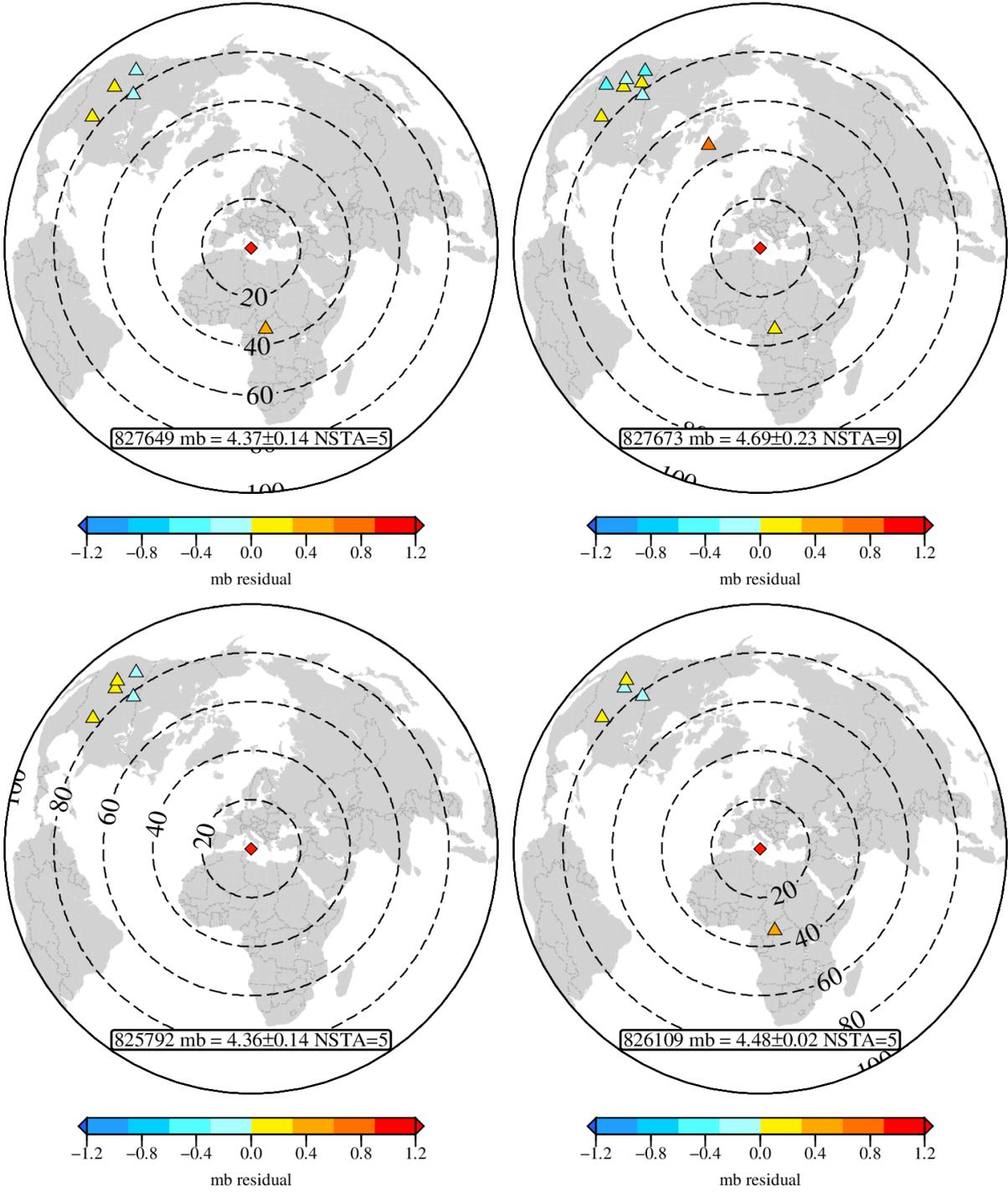


Figure S3d. As in Fig. S3a but for ISC\_Evid 827649, 827673, 825792 and 826109.

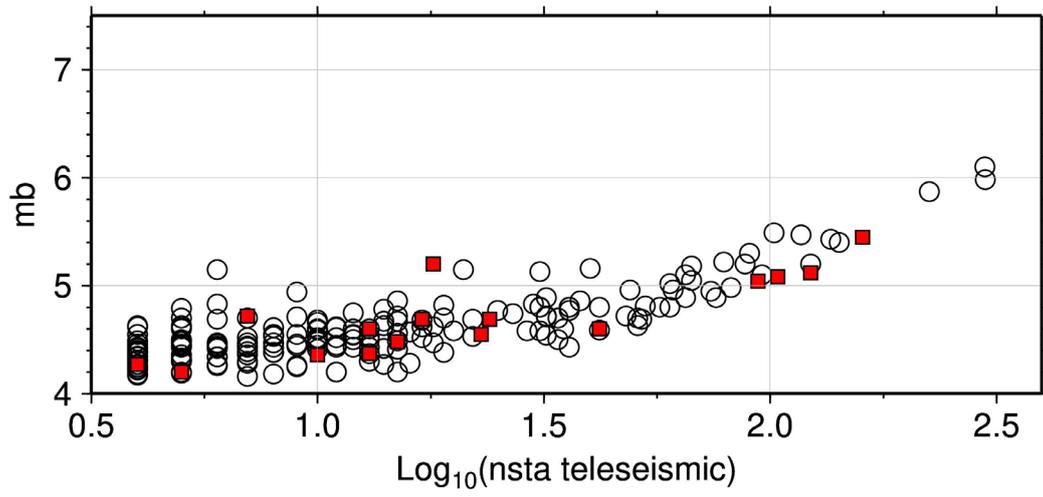


Figure S4. As for Fig. 8 but for  $m_b$ .