

**Additional file 5**

**Supplement to**

Estimation of source, path, and site factors of S waves recorded at the S-net  
sites in the Japan Trench area using the spectral inversion technique

By

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This file contains the following table.

**Table A1** List of sites with spurious site spectra

**Table A1** List of sites with spurious site spectra (see the site spectra section of the main paper for the details).

| Site  | Long.    | Lat.    | Depth<br>(m) | Peak frequency (Hz)                   |        | Peak<br>amplitude<br>(Spec. inv.) | Peak<br>spectral<br>ratio (Y/X) |
|-------|----------|---------|--------------|---------------------------------------|--------|-----------------------------------|---------------------------------|
|       |          |         |              | Spectral<br>inversion<br>(spec. inv.) | Y/X    |                                   |                                 |
| S1N06 | 141.8692 | 35.2277 | 5567         | 8.8379                                | 9.1553 | 13.554                            | 9.4658                          |
| S1N09 | 141.3068 | 35.227  | 1583         | 0.7568                                | 6.4697 | 23.216                            | 4.538                           |
| S1N18 | 141.0316 | 34.262  | 5111         | 7.4707                                | 6.1279 | 43.5404                           | 5.3486                          |
| S1N21 | 140.203  | 34.4231 | 2869         | 2.6123                                | 9.3506 | 17.4708                           | 3.5635                          |
| S2N05 | 142.6236 | 37.6016 | 1781         | 3.8574                                | 4.1748 | 69.5831                           | 3.3504                          |
| S3N04 | 143.4544 | 39.2958 | 2490         | 6.6895                                | 7.1045 | 19.8155                           | 3.4207                          |
| S3N16 | 143.1703 | 38.4261 | 2420         | 5.4199                                | 5.3711 | 43.6375                           | 5.8259                          |
| S3N21 | 143.2454 | 37.9713 | 2779         | 0.5371                                | 5.542  | 22.98                             | 3.9422                          |
| S3N22 | 142.9072 | 37.9838 | 1645         | 0.293                                 | 8.3008 | 20.7223                           | 5.1553                          |
| S4N09 | 144.1332 | 40.5521 | 5095         | 5.4199                                | 5.3711 | 24.8154                           | 4.4784                          |
| S4N10 | 143.8887 | 40.4327 | 3897         | 5.6152                                | 5.5176 | 17.5717                           | 3.1956                          |
| S4N21 | 143.6572 | 40.0863 | 2456         | 0.8789                                | 8.1787 | 16.5063                           | 3.6134                          |
| S4N23 | 143.9259 | 39.7717 | 4358         | 5.3223                                | 5.2246 | 24.9203                           | 3.9143                          |
| S4N26 | 143.0385 | 39.7244 | 1569         | 7.4707                                | 7.8125 | 27.0303                           | 2.8996                          |
| S5N03 | 145.1433 | 42.4802 | 1985         | 6.8848                                | 6.7871 | 33.8152                           | 4.9804                          |
| S5N10 | 144.6719 | 41.6512 | 4116         | 4.7363                                | 4.8584 | 39.0185                           | 6.1103                          |
| S5N12 | 144.6368 | 42.0785 | 1771         | 5.5176                                | 5.5664 | 53.2742                           | 6.82                            |
| S5N14 | 144.1777 | 41.7471 | 1592         | 7.2754                                | 7.373  | 27.3992                           | 7.5972                          |
| S5N15 | 144.087  | 41.4951 | 1950         | 7.5684                                | 7.2266 | 22.5902                           | 4.4074                          |
| S5N17 | 143.452  | 41.3643 | 2022         | 5.6152                                | 7.4707 | 21.5625                           | 4.2723                          |
| S5N18 | 143.1213 | 41.4371 | 1500         | 3.0762                                | 7.666  | 17.6314                           | 3.1757                          |
| S6N01 | 146.0211 | 42.8064 | 2427         | 4.7363                                | 4.6875 | 37.9669                           | 3.2292                          |
| S6N02 | 146.078  | 42.5807 | 2830         | 5.127                                 | 4.9561 | 30.8852                           | 3.7734                          |
| S6N06 | 145.3929 | 40.8999 | 6012         | 6.7871                                | 6.1523 | 40.6194                           | 4.9527                          |
| S6N11 | 144.4536 | 38.499  | 6118         | 7.666                                 | 7.5439 | 47.0259                           | 5.543                           |
| S6N12 | 144.3357 | 37.9879 | 6111         | 6.6895                                | 6.25   | 20.6763                           | 3.0943                          |

|       |          |         |      |        |        |         |        |
|-------|----------|---------|------|--------|--------|---------|--------|
| S6N13 | 144.1757 | 37.4862 | 6174 | 5.6152 | 6.0059 | 31.3217 | 4.852  |
| S6N14 | 143.9557 | 37.012  | 6228 | 7.1777 | 6.7871 | 26.08   | 6.2352 |
| S6N15 | 143.6059 | 36.5748 | 6433 | 7.373  | 7.1045 | 85.4375 | 3.3436 |
| S6N16 | 143.2823 | 36.1262 | 6513 | 7.8613 | 8.0811 | 19.3382 | 7.3349 |