**CODIGO DE EVENTOS BCAA.12-18042021 (Isla Rey Jorge, Antártida)**

|  |
| --- |
| **Reporte semanal**  **12 al 18 abril, 2021**  **Información general**  En el área de análisis (Islas Shetland del Sur, Antártida) han sido estudiados enjambres sísmicos como el que se inició el 28 de agosto del 2020. En el periodo comprendido entre el 12 y el 18 de abril del 2021 se parametrizaron 98 eventos de los cuales 39 tienen MLz mayores a 4 (ver tabla 1).  La mayoría de los eventos sísmicos están vinculados al movimiento producido por de fallamiento. Estas estructuras presentan direcciones ENE limitando la cuenca de Bransfield (Figura 1). Otras estructuras superficiales importantes mapeadas previamente presentan direcciones NNO en la que se incluye también a la falla Artigas que limita dos bloques de distinto espesor cortical en la placa Shetland del Sur. |

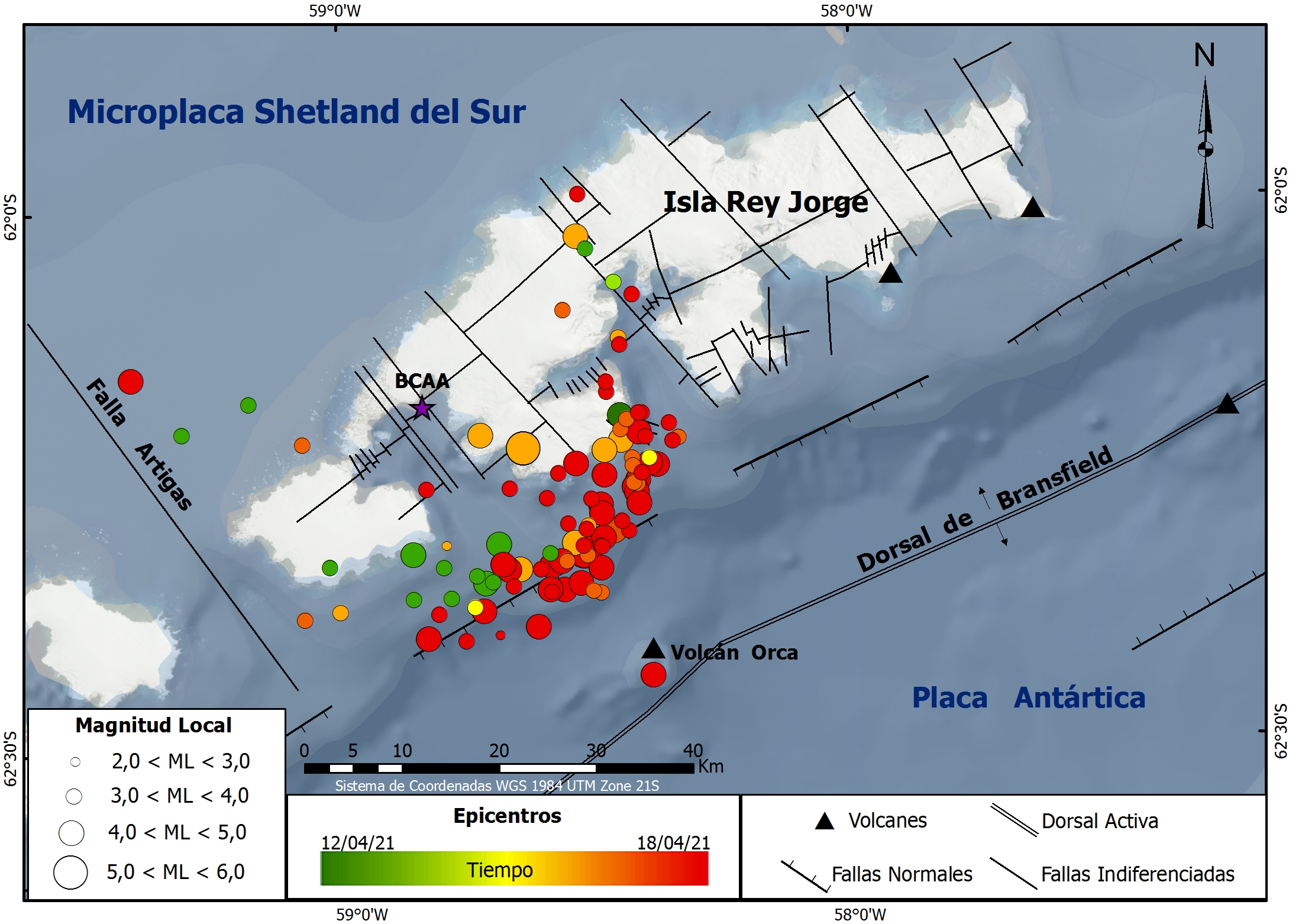
**Tabla 1. Listado de eventos parametrizados**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **día** | **mes** | **año** | **MLz** | **To** | **distancia epicentral (km)** | **Profundidad (km)** | **Lat (°)** | **Long (°)** |

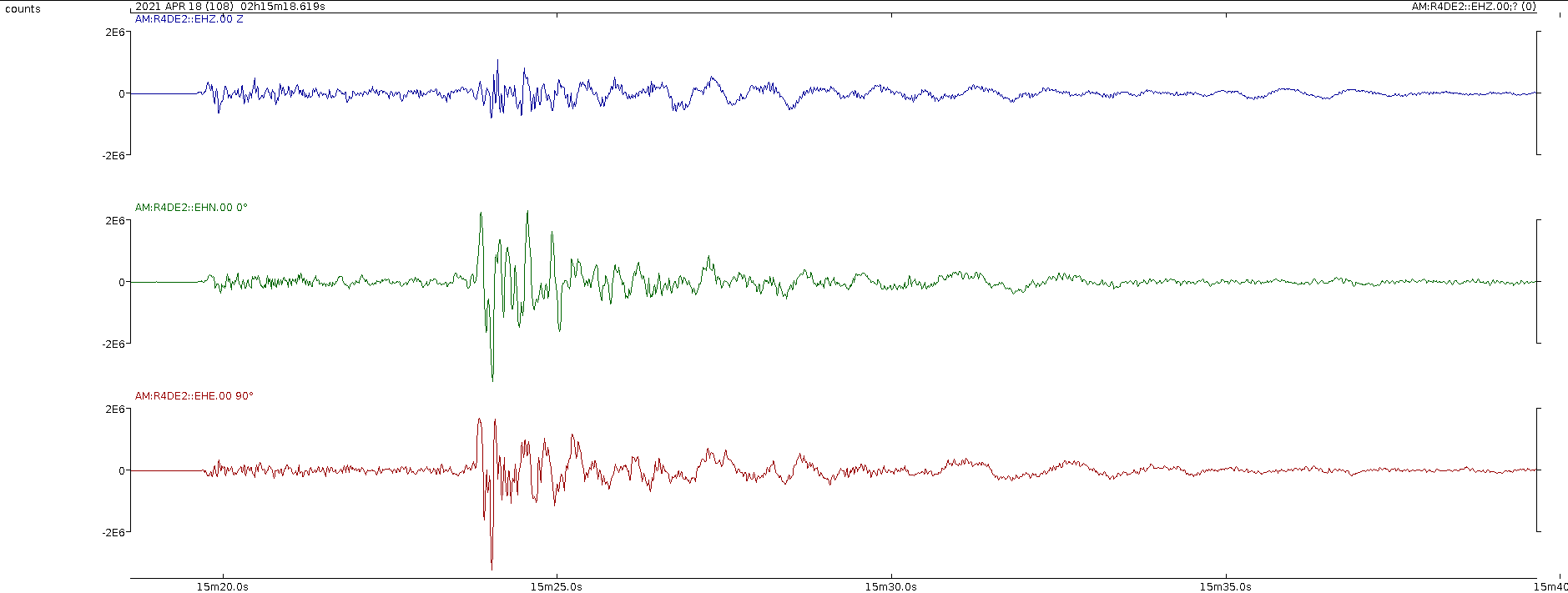
|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 4 | 2021 | **4,61** | 20:56:10 | 20,3 | 14,33 | -62,200 | -58,461 |
| 13 | 4 | 2021 | **3,48** | 8:37:59 | 23,0 | 8,64 | -62,046 | -58,523 |
| 13 | 4 | 2021 | **3,88** | 9:29:02 | 17,2 | 16,44 | -62,338 | -58,817 |
| 13 | 4 | 2021 | **3,90** | 9:35:05 | 19,8 | 11,93 | -62,352 | -58,721 |
| 13 | 4 | 2021 | **3,74** | 9:38:20 | 20,3 | 11,71 | -62,367 | -58,879 |
| 13 | 4 | 2021 | **4,33** | 9:42:09 | 16,5 | 15,85 | -62,317 | -58,707 |
| 13 | 4 | 2021 | **3,42** | 9:45:30 | 18,7 | 13,91 | -62,346 | -58,752 |
| 13 | 4 | 2021 | **4,18** | 9:48:01 | 15,7 | 17,19 | -62,325 | -58,878 |
| 13 | 4 | 2021 | **3,88** | 9:48:47 | 17,9 | 15,05 | -62,182 | -59,196 |
| 13 | 4 | 2021 | **4,15** | 9:50:03 | 19,7 | 12,91 | -62,353 | -58,735 |
| 13 | 4 | 2021 | **3,32** | 9:54:56 | 19,5 | 13,29 | -62,334 | -59,045 |
| 13 | 4 | 2021 | **3,94** | 9:59:21 | 20,4 | 12,28 | -62,367 | -58,804 |
| 13 | 4 | 2021 | **3,69** | 10:17:30 | 20,3 | 11,72 | -62,327 | -58,605 |
| 13 | 4 | 2021 | **3,90** | 20:46:30 | 24,9 | 10,93 | -62,208 | -59,330 |
| 14 | 4 | 2021 | **3,47** | 3:25:07 | 23,2 | 8,71 | -62,077 | -58,469 |
| 15 | 4 | 2021 | **3,69** | 12:17:54 | 24,0 | 8,07 | -62,240 | -58,405 |
| 15 | 4 | 2021 | **3,50** | 17:45:51 | 21,8 | 15,50 | -62,375 | -58,758 |
| 16 | 4 | 2021 | **2,85** | 1:42:54 | 14,9 | 8,25 | -62,318 | -58,812 |
| 16 | 4 | 2021 | **4,48** | 18:14:10 | 23,2 | 11,19 | -62,034 | -58,541 |
| 16 | 4 | 2021 | **4,09** | 18:15:55 | 21,5 | 14,67 | -62,337 | -58,597 |
| 16 | 4 | 2021 | **3,92** | 18:48:36 | 23,2 | 10,16 | -62,377 | -59,027 |
| 16 | 4 | 2021 | **4,05** | 19:38:12 | 6,9 | 20,96 | -62,216 | -58,739 |
| 16 | 4 | 2021 | **5,20** | 19:47:11 | 11,3 | 26,77 | -62,229 | -58,656 |
| 16 | 4 | 2021 | **4,17** | 20:23:09 | 19,8 | 17,43 | -62,341 | -58,667 |
| 16 | 4 | 2021 | **4,32** | 20:28:23 | 20,8 | 16,09 | -62,223 | -58,460 |
| 16 | 4 | 2021 | **3,87** | 20:32:32 | 21,2 | 17,10 | -62,129 | -58,462 |
| 16 | 4 | 2021 | **4,11** | 20:45:09 | 19,3 | 18,16 | -62,232 | -58,494 |
| 16 | 4 | 2021 | **3,84** | 20:47:22 | 21,2 | 15,79 | -62,302 | -58,529 |
| 16 | 4 | 2021 | **4,16** | 20:47:51 | 21,3 | 15,81 | -62,317 | -58,557 |
| 17 | 4 | 2021 | **4,41** | 0:53:23 | 23,7 | 15,54 | -62,307 | -58,477 |
| 17 | 4 | 2021 | **3,36** | 1:45:11 | 26,5 | 6,90 | -62,222 | -58,347 |
| 17 | 4 | 2021 | **3,19** | 2:00:46 | 13,1 | 23,82 | -62,221 | -59,092 |
| 17 | 4 | 2021 | **3,10** | 2:52:44 | 26,8 | 10,64 | -62,364 | -58,505 |
| 17 | 4 | 2021 | **3,57** | 2:59:27 | 25,4 | 11,14 | -62,383 | -59,097 |
| 17 | 4 | 2021 | **3,05** | 3:24:46 | 26,2 | 5,39 | -62,362 | -58,521 |
| 17 | 4 | 2021 | **3,93** | 3:34:22 | 20,5 | 16,59 | -62,213 | -58,461 |
| 17 | 4 | 2021 | **3,65** | 4:21:51 | 17,3 | 21,43 | -62,102 | -58,569 |
| 17 | 4 | 2021 | **3,52** | 5:54:11 | 21,0 | 18,47 | -62,204 | -58,449 |
| 17 | 4 | 2021 | **3,97** | 9:19:28 | 23,7 | 16,86 | -62,264 | -58,429 |
| 17 | 4 | 2021 | **3,81** | 9:41:27 | 22,3 | 17,26 | -62,240 | -58,439 |
| 17 | 4 | 2021 | **3,56** | 10:35:07 | 22,6 | 13,02 | -62,247 | -58,438 |
| 17 | 4 | 2021 | **3,31** | 10:47:57 | 23,3 | 10,20 | -62,263 | -58,436 |
| 17 | 4 | 2021 | **3,20** | 19:49:52 | 23,1 | 17,92 | -62,329 | -58,531 |
| 17 | 4 | 2021 | **3,64** | 20:43:15 | 22,1 | 18,61 | -62,334 | -58,572 |
| 18 | 4 | 2021 | **4,04** | 0:44:47 | 23,3 | 11,75 | -62,313 | -58,498 |
| 18 | 4 | 2021 | **3,50** | 0:55:54 | 25,0 | 14,42 | -62,307 | -58,448 |
| 18 | 4 | 2021 | **3,36** | 0:57:08 | 25,4 | 12,83 | -62,208 | -58,364 |
| 18 | 4 | 2021 | **3,11** | 1:02:46 | 24,2 | 10,09 | -62,089 | -58,433 |
| 18 | 4 | 2021 | **2,95** | 1:09:31 | 25,2 | 6,10 | -62,401 | -58,710 |
| 18 | 4 | 2021 | **3,46** | 1:12:40 | 18,9 | 16,63 | -62,178 | -58,487 |
| 18 | 4 | 2021 | **3,51** | 1:19:44 | 21,3 | 13,97 | -62,305 | -58,532 |
| 18 | 4 | 2021 | **4,38** | 1:37:10 | 24,2 | 9,57 | -62,360 | -58,578 |
| 18 | 4 | 2021 | **3,82** | 1:53:23 | 19,0 | 17,40 | -62,170 | -58,487 |
| 18 | 4 | 2021 | **3,54** | 1:54:14 | 26,7 | 11,11 | -61,995 | -58,535 |
| 18 | 4 | 2021 | **3,96** | 1:54:24 | 22,2 | 12,25 | -62,321 | -58,539 |
| 18 | 4 | 2021 | **4,12** | 1:55:10 | 25,0 | 9,89 | -62,246 | -58,389 |
| 18 | 4 | 2021 | **4,14** | 1:56:53 | 19,4 | 18,53 | -62,341 | -58,688 |
| 18 | 4 | 2021 | **3,44** | 1:58:46 | 22,6 | 12,45 | -62,199 | -58,418 |
| 18 | 4 | 2021 | **3,62** | 2:00:54 | 21,1 | 15,67 | -62,135 | -58,459 |
| 18 | 4 | 2021 | **3,58** | 2:03:20 | 21,1 | 15,00 | -62,342 | -58,625 |
| 18 | 4 | 2021 | **3,77** | 2:04:21 | 26,0 | 6,29 | -62,225 | -58,359 |
| 18 | 4 | 2021 | **3,64** | 2:04:45 | 22,2 | 14,54 | -62,198 | -58,425 |
| 18 | 4 | 2021 | **3,52** | 2:07:38 | 23,9 | 10,00 | -62,298 | -58,462 |
| 18 | 4 | 2021 | **4,11** | 2:09:21 | 23,5 | 10,82 | -62,260 | -58,428 |
| 18 | 4 | 2021 | **3,89** | 2:10:06 | 23,5 | 11,32 | -62,320 | -58,505 |
| 18 | 4 | 2021 | **5,25** | 2:15:15 | 22,6 | 13,61 | -62,326 | -58,538 |
| 18 | 4 | 2021 | **4,14** | 2:16:28 | 24,2 | 10,60 | -62,244 | -58,403 |
| 18 | 4 | 2021 | **3,62** | 2:19:30 | 19,5 | 17,15 | -62,300 | -58,568 |
| 18 | 4 | 2021 | **3,64** | 2:21:00 | 23,6 | 10,36 | -62,254 | -58,421 |
| 18 | 4 | 2021 | **4,24** | 2:21:13 | 24,3 | 10,00 | -62,403 | -58,852 |
| 18 | 4 | 2021 | **4,11** | 2:22:33 | 23,5 | 11,32 | -62,267 | -58,435 |
| 18 | 4 | 2021 | **4,00** | 2:24:20 | 23,9 | 8,98 | -62,272 | -58,431 |
| 18 | 4 | 2021 | **4,48** | 2:42:22 | 26,0 | 1,75 | -62,394 | -58,632 |
| 18 | 4 | 2021 | **4,10** | 2:59:00 | 22,4 | 12,34 | -62,379 | -58,740 |
| 18 | 4 | 2021 | **3,88** | 3:08:50 | 21,1 | 14,40 | -62,356 | -58,680 |
| 18 | 4 | 2021 | **4,63** | 3:16:51 | 21,4 | 15,25 | -62,338 | -58,604 |
| 18 | 4 | 2021 | **3,94** | 3:22:19 | 12,6 | 22,99 | -62,266 | -58,683 |
| 18 | 4 | 2021 | **3,85** | 3:25:01 | 15,8 | 21,06 | -62,253 | -58,586 |
| 18 | 4 | 2021 | **4,02** | 3:30:30 | 20,1 | 16,24 | -62,255 | -58,495 |
| 18 | 4 | 2021 | **4,71** | 3:46:30 | 21,7 | 15,47 | -62,334 | -58,583 |
| 18 | 4 | 2021 | **4,21** | 4:04:01 | 24,7 | 11,92 | -62,355 | -58,545 |
| 18 | 4 | 2021 | **3,90** | 4:07:45 | 16,1 | 20,46 | -62,276 | -58,610 |
| 18 | 4 | 2021 | **4,09** | 4:10:10 | 17,0 | 19,52 | -62,244 | -58,550 |
| 18 | 4 | 2021 | **3,88** | 4:17:59 | 9,0 | 23,75 | -62,265 | -58,849 |
| 18 | 4 | 2021 | **4,16** | 4:25:24 | 24,6 | 9,73 | -62,281 | -58,426 |
| 18 | 4 | 2021 | **4,25** | 4:34:22 | 36,7 | 10,00 | -62,441 | -58,406 |
| 18 | 4 | 2021 | **3,70** | 4:51:19 | 23,7 | 11,40 | -62,321 | -58,502 |
| 18 | 4 | 2021 | **3,67** | 4:53:43 | 20,0 | 15,48 | -62,277 | -58,522 |
| 18 | 4 | 2021 | **4,24** | 4:59:50 | 21,1 | 11,66 | -62,282 | -58,503 |
| 18 | 4 | 2021 | **4,86** | 5:18:09 | 21,7 | 16,10 | -62,291 | -58,502 |
| 18 | 4 | 2021 | **3,78** | 5:30:46 | 23,2 | 11,70 | -62,221 | -58,412 |
| 18 | 4 | 2021 | **4,09** | 5:32:18 | 22,4 | 12,93 | -62,216 | -58,425 |
| 18 | 4 | 2021 | **4,93** | 6:46:54 | 23,3 | 12,85 | -62,360 | -58,607 |
| 18 | 4 | 2021 | **4,62** | 6:48:37 | 18,6 | 17,80 | -62,336 | -58,700 |
| 18 | 4 | 2021 | **4,06** | 7:46:43 | 25,0 | 6,05 | -62,341 | -58,505 |
| 18 | 4 | 2021 | **3,83** | 7:58:19 | 21,9 | 13,75 | -62,381 | -58,830 |
| 18 | 4 | 2021 | **3,95** | 8:31:56 | 23,6 | 14,20 | -62,362 | -58,604 |
| 18 | 4 | 2021 | **4,34** | 10:04:38 | 30,0 | 6,71 | -62,156 | -59,427 |
| 18 | 4 | 2021 | **3,42** | 13:46:01 | 25,0 | 6,50 | -62,406 | -58,777 |

*La fecha y la hora corresponden al momento en que el terremoto ocurrió. La hora está expresada en UTC (Universal Time Coordinated, por sus siglas en inglés), aproximadamente tres horas adelantadas de Uruguay y expresada en formato de 24 horas.*

Es posible que otros eventos ocurriesen, pero debido a gaps y ruido antrópico no se han podido parametrizar. En la Figura 1 se muestra la localización de los epicentros de los sismos.

**Figura 1. Mapa de localización de los epicentros de los sismos ocurridos en el periodo 12/04/2021-18/04/2021.**

En la Figura 2 se muestran la forma de onda del evento del día 18/04/2021 (02:15:15) de MLz = 5.25 registrado en la estación R4DE2.

**Figura 2. Forma de onda del evento sísmico ocurrido el día 10/04/2021 a las 07:14:03.**

**Leda Sánchez Bettucci, Observatorio Geofísico del Uruguay, Facultad de Ciencias, UDELAR.**

**Judith Loureiro, Dirección Nacional de Minería y Geología, MIEM, Observatorio Geofísico del Uruguay**