

~~No. WD~~ 134

BRITISH ANTARCTIC SURVEY  
(formerly Falkland Islands Dependencies Survey)

Seismological Bulletin 1959

Port Stanley No. 1

Station Information

Position:  $51^{\circ} 42' S$        $57^{\circ} 52' W$

Three-component Willmore seismograph (Hilger and Watts) with 1 sec. seismometers and 2 sec. galvanometers recording at 15 mm./min. on  $\frac{1}{3}$  maximum sensitivity.

Synchronome pendulum clock time control to  $\pm \frac{1}{2}$  sec. on G.M.T.

Station maintained by personnel of D.S.I.R. Radio Research Sub-Station.

Analysis

The phase data given in the Bulletin has been produced during an analysis of the records for South American and Southern Ocean shocks. In consequence it is not fully comprehensive and some emergent phases have not been included. However, all major movements have been reported.

2.

Port Stanley (Contd.)

| <u>Date</u> | <u>Recorded<br/>Phases</u> | <u>Region of Prov.<br/>Epicentre</u> |
|-------------|----------------------------|--------------------------------------|
| Jan. 3      | iP 112513                  | Peru                                 |
| 8           | iP 014434                  | Lesser Antilles                      |
| 13          | iP 191340                  | Peru                                 |
| 13          | iP 204032 eS 204345        | Chile                                |
| 15          | iP 213228                  | Fiji Is.                             |
| 19          | iP 042943                  | Chile                                |
| 21          | i 141755                   | Socotra                              |
| 26          | iP 032436                  | Chile                                |
| 28          | iP 100949                  | Juan Fernandez                       |
| 29          | ePkP 234344                | Norway                               |
| 30          | iP 162120 ipP 162135       | Chile                                |
| 30          | iP 182130 iPP 182413       | Kermadec                             |
| Feb. 7      | iP 094605 eS 095332        | Peru                                 |
| 7           | eP 234539                  | *                                    |
| 20          | iP 041803                  | Chile                                |
| 24          | eP 110217                  | *                                    |
| 24          | iP 113536                  | *                                    |
| Mar 13      | iP 132644                  | Peru                                 |
| 17          | iP 130328 eS 130741        | Sandwich Is.                         |
| 17          | iP 150840                  | Sandwich Is.                         |
| 17 /        |                            |                                      |

3.

Port Stanley (Contd.)

| <u>Date</u> | <u>Recorded<br/>Phases</u> | <u>Region of Prov.<br/>Epicentre</u> |
|-------------|----------------------------|--------------------------------------|
| Mar 17      | iP 230851                  | *                                    |
| 27          | iP 071255                  | Lesser Antilles                      |

\* no epicentral data - suspect local shock.

Additional Phase

|        |           |         |
|--------|-----------|---------|
| Jan 29 | iP 224215 | Bolivia |
|--------|-----------|---------|

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BRITISH ANTARCTIC SURVEY  
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Port Stanley No. 2

| <u>Date</u>   | <u>Recorded<br/>Phases</u> |           | <u>Region of Prov.<br/>Epicentre</u> |
|---------------|----------------------------|-----------|--------------------------------------|
| Apl 1         | iP 004659                  |           | Canary Is.                           |
| 8             | iP 013509                  |           | Kermadec Is.                         |
| 8             | iP 114643                  |           | Chile                                |
| <del>8</del>  | iP 120900                  | iS 121044 | Chile                                |
| 10            | iP 055933                  |           | Fiji                                 |
| <del>10</del> | iP 133905                  | e 134041  | * Chile                              |
| 12            | 09 6633<br>iP 100633       |           | Mexico                               |
| <del>12</del> | iP 081659                  |           | Bolivia                              |
| 16            | iP 031348                  |           | Chile                                |
| 19            | eP 073011                  |           | S. Pacific                           |
| 22            | iP 203322                  | i 203434  | Pacific                              |
| 24            | iP 181024                  |           | Kermadec Is.                         |
| 26            | eiP 062726                 |           | Chile                                |
| 26            | iPKP 210016                |           | Formosa                              |
| 30            | iP 132953                  | eS 133322 | Sandwich Is.                         |
| May 4         | ePKP 073531                |           | Kamchatka                            |
| 21            | eiP 113953                 | iS 114444 | Chile                                |
| 23            | eP 212346                  |           | *                                    |
| 24            | eP 002042                  |           | Antilles                             |
| 24            | iP 192928                  | i 192947  | Mexico                               |
| 26            | iP 214803                  | iS 215047 | Chile                                |
| Jun 2 /       |                            |           |                                      |

2.

Port Stanley (Contd.)

| <u>Date</u> | <u>Recorded<br/>Phases</u> |           | <u>Region of Prov.<br/>Epicentre</u> |
|-------------|----------------------------|-----------|--------------------------------------|
| Jun 2       | eiP 054543                 | iS 055000 | Chile                                |
| 8           | eP 220706                  | e 220735  | *                                    |
| 9           | iP 142601                  |           | *                                    |
| 9           | iP 150550                  |           | Kermadec Is.                         |
| ✓ 9         | iP 231632                  |           | Bouvet Is.                           |
| 10          | iP 020628                  | eS 020829 | * Drake Passage                      |
| ✓ 14        | iP 001824                  | eS 002330 | Bolivia                              |
| ✓ 15        | iPKP 025900                |           | Formosa                              |
| ✓ 18        | ePKP 155155                |           | Kamchatka                            |
| 20          | eP 064105                  |           | *                                    |
| 21          | iP 233614                  |           | Argentina                            |
| 22          | iP 174225                  |           | *                                    |
| 23          | iP 125329                  |           | *                                    |
| 23          | iP 214624                  |           | Argentina                            |
| ✓ 27        | iP 191640                  | eS 192637 | Kermadec Is.                         |
| ✓ 27        | iPKP 193117                |           | China                                |
| ✓ 28        | iPKP 200334                |           | Samoa                                |

\* no epicentral data - suspect local shock.

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Part 3



July - sent  
July 1959

BRITISH ANTARCTIC SURVEY  
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Seismological Bulletin 1959

Port Stanley No. 3

| <u>Date</u> | <u>Recorded<br/>Phases</u> | <u>Region of Prov.<br/>Epicentre</u> |
|-------------|----------------------------|--------------------------------------|
| ✓ Jul 6     | iP 091501 iScS 092447      | Argentina                            |
| ✓ 6         | iP 092813 iScS 093755      | Argentina                            |
| ✓ 7         | iP 164153 iS 164338        | *                                    |
| ✓ 9         | iP 161145 iS 161650        | Chile                                |
| ✓ 10        | eP 041831                  | Chile                                |
| ✓ 11        | iP 184708                  | *                                    |
| ✓ 18        | iPKP 201420                | Philippines                          |
| ✓ 19        | iP 151310 iScS 152256      | Peru                                 |
| ✓ 19        | iP 152910                  | *                                    |
| ✓ 19        | eP 154318                  | Peru                                 |
| ✓ 20        | eP 005141                  | Chile                                |
| ✓ 20        | iPKP 025906                | Java Sea                             |
| ✓ 20        | eP 170542                  | Fiji                                 |
| ✓ 22        | ePKP 194358                | Kamchatka                            |
| ✓ 23        | iP 051909                  | Chile                                |
| ✓ 23        | iP 150936                  | Tonga                                |
| ✓ 24        | i(PKP) 163707              | Burma                                |
| ✓ 24        | iP 230730 iS 231056        | Sandwich Is.                         |
| ✓ 28        | iP 105614 i 105815         | * Drake Passage                      |
| ✓ 31        | iP 015843                  | South Peru                           |

Port Stanley (Contd.)

| <u>Date</u> | <u>Recorded<br/>Phases</u> |           | <u>Region of Prov.<br/>Epicentre</u> |
|-------------|----------------------------|-----------|--------------------------------------|
| * Aug 1     | iP 100642                  |           | Argentina                            |
| X 15        | iP 033327                  |           | *                                    |
| ✓ 15        | iPKP 091720                |           | Formosa                              |
| ✓ 18        | iPKP 005336                |           | "                                    |
| ✓ 18        | ePKP 0656(00)              |           | Montana                              |
| ✓ 20        | iP 072734                  |           | Peru                                 |
| ✓ 21        | eP 081712                  |           | S. of Australia                      |
| X 21        | iP 081932                  |           | "                                    |
| X 22        | iP 020447                  |           | Chile                                |
| X 22        | iP 213448                  |           | Peru                                 |
| X Sep 4     | iP 232550                  | iS 232928 | Chile                                |
| X 6         | eP 190133                  |           | Peru                                 |
| ✓ 8         | iP 202312                  |           | Sandwich Is.                         |
| ✓ 12        | iP 014726                  |           | Bolivia                              |
| ✓ 14        | eP 132841                  |           | Tonga                                |
| ✓ 14        | iP 142214                  | eS 143258 | Kermadec Is.                         |
| ✓ 15        | iP 111741                  |           | Fiji                                 |
| ✓ 18        | iP 120546                  | eS 120926 | Sandwich Is.                         |
| X 18        | eP 183727                  |           | *                                    |
| X 18        | eP 201307                  | eS 201434 | *                                    |
| ✓ 25        | iPKP 025643                |           | Formosa                              |
| ✓ 26        | iP 102250                  |           | Chile                                |

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Port Stanley No. 4

134

| <u>Date</u> | <u>Recorded<br/>Phases</u> |           | <u>Region of Prov.<br/>Epicentre</u> |
|-------------|----------------------------|-----------|--------------------------------------|
| Oct 4       | iP 105813                  | eS 110204 | Argentina                            |
| ✓X 12       | iP 035019                  |           | Chile                                |
| 15          | ePKP 063447                |           | Celebes Sea                          |
| 15          | iP 135835                  | eS 140222 | Sandwich Is.                         |
| X 17        | iP 084431                  |           | S. Pacific                           |
| ✓X 19       | eP 083956                  |           | Kermadec Is.                         |
| ✓X 19       | iP 155947                  |           | Sandwich Is.                         |
| 21          | iP 061133                  |           | *                                    |
| 23          | eP 062415                  |           | Chile                                |
| 25          | iP 183852                  |           | S. Pacific                           |
| ✓X 29       | iP 143224                  |           | Kermadec Is.                         |
| 30,         | iP 113200                  | eS 113545 | Sandwich Is.                         |
| ✓X 31       | iP 043948                  |           | Fiji                                 |
| Nov 11      | iP 102650                  |           | *                                    |
| ✓X 15       | iPKP 104449                |           | China                                |
| ✓X 16       | iP 010338                  | iS 010705 | Chile                                |
| ✓X 19       | i(P) 112728                |           | New Guinea                           |
| ✓X 22       | iP 194644                  |           | Fiji                                 |
| ✓X 28       | iP 124021                  |           | Chile                                |

Dec 1 /

2.

Port Stanley (Contd.)

| <u>Date</u> | <u>Recorded<br/>Phases</u>  | <u>Region of Prov.<br/>Epicentre</u> |
|-------------|-----------------------------|--------------------------------------|
| Dec ✓ 1 X   | eP 154245                   | Argentina                            |
| 3           | eP 015939                   | Sandwich Is.                         |
| ✓ X 14      | iPKP 181736 iPP 182050      | Philippines                          |
| ✓ X 14      | iP 232629 iS 3014 iScP 3420 | Sandwich Is.                         |
| ✓ X 14      | iP 235546                   | *                                    |
| 14          | iP 235808                   | *                                    |
| 15          | eP 002121                   | *                                    |
| 15          | eP 002314                   | *                                    |
| 15          | iP 052740                   | *                                    |
| ✓ X 15      | iP 122021 iS 2407 iScP 2813 | Sandwich Is.                         |
| ✓ X 21      | eP 103310                   | Kermadec Is.                         |
| ✓ X 21      | eP 112654                   | "                                    |
| ✓ X 22      | eP 113512                   | *                                    |
| ✓ X 25      | iP 102428                   | Chile                                |
| 26          | eP 170246                   | * S. Chile                           |
| ✓ X 27      | iP 124336 iS 4710 iScS 5326 | Argentina                            |
| ✓ X 27      | ePKP 161308                 | Kamchatka                            |
| ✓ X 28      | iP 100918                   | Chile                                |
| 30          | iP 001018                   | New Zealand                          |

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