

BRITISH ANTARCTIC SURVEY
(formerly Falkland Islands Dependencies Survey)

Seismological Bulletin 1959

Argentine Islands No. 1.

241

Station Information

Position: $65^{\circ} 15' S$ $64^{\circ} 16' W$

Three-component Willmore seismograph (Hilger and Watts) with 1 sec.
seismometers and $\frac{1}{4}$ sec. galvanometers recording at 53 mm./min.

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

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.

Microseismic activity leads to some loss of record and/or sensitivity during the summer months.

Argentine Islands (Contd.)

2.

<u>Date</u>	<u>Recorded Phases</u>		<u>Region of Prov. Epicentre</u>
Jan. 1	eP 073840		Tonga Is.
1	eP 080211		Fiji Is.
5	iP 095919	eS 100919	Loyalty Is.
8	iP 014552		Lesser Antilles
11	eP 073442		Guatemala
15	eP 213133		Fiji Is.
22	ePkP 053016	e 053121	Japan
30	iP 182028		Kermadec Is.
Feb. 7	eP 234511		*
15	eiP 040352	eS 0743	Sandwich Is.
15	eiP 044653	eS 5043	Sandwich Is.
24	eP 110208		*
24	eP 113522		*
Mar 17	iP 150845		Sandwich Is.

* no provisional epicentre - suspect local shock.

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Argentine Islands No. 2

241

<u>Date</u>	<u>Recorded Phases</u>		<u>Region of Prov. Epicentre</u>
Apl 8	iP 013450	eS 014244	Kermadec Is.
9	eP 063014		Indian Ocean
10	eP 134033		* S. Chile
12	e 210635	i 210648	Samoa
16	eP 031534		Chile
19 ✓	eP 073117		S. Pacific
22 ✓	eP 203344		Pacific Ocean
24 ✓	iP 180922		Kermadec Is.
26 ✓	ePKP 210048	e 210415	Formosa
30 ✓	iP 133026	eS 133400	Sandwich Is.
May 4 ✓	ePKP 073537		Kamchatka
8 ✓	ePKP 115448		Kamchatka
12 ✓	eP 095448	eS 100108	Argentina
21 ✓	eP 114137		Chile
22 ✓	iP 070745		New Zealand
23	eP 212343		*
24 ✓	eP 193016		Mexico
29 ✓	iP 105347		New Hebrides
Jun 2 ✓	eP 054707		Chile
8	eP 220735		*
9 /			

2.

Argentine Islands (Contd.)

<u>Date</u>	<u>Recorded Phases</u>		<u>Region of Prov. Epicentre</u>
Jun 9	iP 142521	eS 142713	*
9	iP 150353		Kermadec Is.
✓ 9	iP 231616	i 231646	Bouvet Is.
10	iP 020429		*
✓ 14	eiP 002009	eS 002645	Bolivia
✓ 14	iP 211403		Tonga
✓ 18	eP 065816		Pacific
✓ 18	ePKP 155130		Kamchatka
21	iP 101522		Fiji
23	iP 214822		Argentina
27	eP 034642		South Atlantic
✓ 27	iP 191535	eS 192434	Kermadec Is.

* no epicentral data - suspect local shock.

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July - sent
1959

241

Argentina



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BRITISH ANTARCTIC SURVEY
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Seismological Bulletin 1959

Argentine Is. No. 3

<u>Date</u>	<u>Recorded Phases</u>		<u>Region of Prov. Epicentre</u>
✓ Jul 2	iP 113902		Fiji
✓ 2	eP 114537		Fiji
✓ 3	eP 180801		New Hebrides
✓ 3	iP 180843		"
✓ 6	iP 091654	iScS 092550	Argentina
✓ 6	iP 093005	iScS 093903	Argentina
✓ 7	iP 164243	e 164449	*
✓ 9	iP 161328	eS 162001	Chile
✓ 10	eP 042010		Chile
✓ 11	eP 050420		New Hebrides
✓ 11	eP 121325		Indian Ocean
✓ 11	iP 184657		*
✓ 12	iP 003600		Fiji
✓ 13	iP 124813		Aleutians
✓ 18	iP 071150		Fiji
* 18	iP 193937		Fiji
✓ 18	iPKP 201358	i 201707	Philippines
✓ 19	iP 151447	eS 152146	Peru
✓ 19	iP 153047		*
19	iP 154455		Peru

Argentine Islands (Contd.)

2.

26

<u>Date</u>	<u>Recorded Phases</u>		<u>Region of Prov. Epicentre</u>
✓ Jul 20	iP 170448		Fiji
✓ 23	iP 150835		Tonga
✓ 24	iP 230745	iS 231124	Sandwich Is.
28	iP 105415	iS 105523	* South Shetlands
31	eP 020020		S. Peru
Aug 1	iP 100720		Argentina
✓ 4	iP 081335		Fiji
✓ 12	iP 041555		Rhodesia
X 15	iP 033315		*
✓ 15	iPKP 091625		Formosa
✓ 16	iP 100524		Fiji
✓ 17	eP 211828		Solomon Is.
✓ 18	ePKP 005305		Formosa
✓ 20	eP 072845		Peru
✓ 21	eP 081405		S. of Australia
✓ 21	eP 081622		"
✓ 21	eP 094816		"
22	eP 020639		Chile
22	eP 213628		Peru
✓ 26	iP 083816		Mexico
✓ Sep 4	eP 183758		Atlantic Ocean
4	eP 232725		S. Chile

3.

Argentine Islands (Contd.)

<u>Date</u>	<u>Recorded Phases</u>	<u>Region of Prov. Epicentre</u>
✓ Sep 5	eP 070925	Balleny Is.
✓ 5	eP 231635	Fiji
✓ 8	eP 132024	Bouvet Is.
✓ 8	eP 193102	"
✓ 8	iP 202305	Sandwich Is.
Sep 14	eP 132729	Tonga
✓ 14	iP 142056	Kermadec Is.
X 14	eP 150957	"
✓ 14	eP 171734	"
✓ 15	iP 111647 iS 112606	Fiji
✓ 16	eP 160834	Kermadec Is.
✓ 17	iP 144742	"
✓ 17	eP 213634	San Salvador
✓ 18	iP 120545 eS 120935	Sandwich Is.
X 18	eP 183715	*
X 18	iP 201231 eS 201334	*
✓ 20	eP 061812	Easter Is.
✓ 26	iP 102608	Chile

* no epicentral data - suspect regional shock.

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Argentine Islands No. 4

241

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<u>Date</u>	<u>Recorded Phases</u>		<u>Region of Prov. Epicentre</u>
Oct 12 ✓	X eP 035151		Chile
✓ 15	iP 135836		Sandwich Is.
✓ 16 ✓	X eP 012154		Argentina
✓ 17 ✓	X eP 084258		S. Pacific
✓ 19 ✓	X iP 160017	eS 160416	Sandwich Is.
21	iP 061148		*
25	iPKP 000011		U.S.S.R.
25	iP 184038		Off Chile
✓ 26 ✓	X eP 075453		Japan
✓ 27 ✓	X iPKP 071239		Kurile Is.
✓ 29 ✓	X eP 143125		Kermadec Is.
30	eP 113110		Sandwich Is.
Nov 22 ✓	X eP 194510	e 195519	Fiji
26	eP 060427		Sandwich Is.
✓ 28 ✓	X eP 124213		Chile
✓ 28 ✓	X eP 225229		New Hebrides
Dec 14 ✓	X iPP 182029		Philippines
✓ 14 ✓	X eiP 232614	iSeS 233759	Sandwich Is.
✓ 14	eP 235536		"
15 /			

Argentine Islands (Contd.)

<u>Date</u>	<u>Recorded Phases</u>				<u>Region of Prov. Epicentre</u>
Dec 15	eP 052724				* Sandwich Is.
✓ 15	X eP 122007	eS	122347		"
✓ 17	X eP 165608				S. Pacific
✓ 21	eP 103212				Kermadec Is.
✓ 21	X eP 112555				"
✓ 22	iP 113530				*
✓ 25	X eP 102615				Chile
✓ 27	X iP 124533	iS	5041	iScS 5437	Argentina
✓ 28	X iP 101103				Bolivia

* no epicentral data - suspect regional shock.

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