

2 FEB 1969

EARTHQUAKE PHASES RECORDED AT HERMANUS

1968 DECEMBER 1-31

PRELIMINARY REPORT

<u>Date</u> 1968	<u>Phase</u>	<u>U.T.</u>			<u>Remarks</u>
		h	m	s	
Dec. 1	e	13	38	25	Weak
	F	14	39	..	
Dec. 2	e	02	38	21	Central Africa?
	i		38	29	
	e		39	13	
	$i_N(e_E)$		42	10	
	i_E		42	20	
	F	04	07	..	
Dec. 9	e	18	47	44	Isolated phase
Dec. 11	e	21	04	02	
	i		04	07	
	F	21	45	..	
Dec. 17	e	12	32	37	
	F	14	18	..	

Traces: 1968 Dec. 5, 0825 - 0900; Dec. 5, 1027 - 1144; Dec. 7, 0520 - 0756;
 Dec. 15, 0430 - 0542; Dec. 16, 0703 - 0708; Dec. 19, 1635 - 1658;
 Dec. 19, 1743 - 1800; Dec. 22, 1625 - 1649; Dec. 22, 1834 - 1856.

HERMANUS.
 27th January, 1969.

A.M. van Wijk
 A.M. van Wijk.

Chief : Magnetic Observatory.

MAGNETIC OBSERVATORY
 REPUBLIC OF SOUTH AFRICA
 HERMANUS
 REPUBLIEK VAN SUID-AFRIKA
 MAGNETIESE OBSERVATORIUM

JAN 1958

18 APR 1958

Geological Survey Office,
Department of Mines,
P.O.Box 401,
Bag 112,
Pretoria

Seismological Bulletin.

Republic of South Africa.

The data herewith give the results from a network of seismographs intended particularly for the study of earthquakes occurring in or near South Africa. This bulletin, however, is prepared regularly and will be sent to interested organizations on request.

<u>Stations</u>	<u>Lat.</u>	<u>Long.</u>	<u>Height</u>	<u>Lithologic Foundation</u>	<u>Instrument</u>
Pretoria (PRE)	25°45.2 'S	28°11.4'E	1350m.	Weathered shale	Vertical S.P.(1.0 sec.) seismometer: Geotech Model 1051 Two horizontal S.P.(1.0sec) seismometers Geotech Model 1101 Vertical L.P. (15sec) Seismometer: Sprengnether Two horizontal L.P.(15sec) Seismometers Sprengnether Galvanometers for S.P. System 0.75 secs. Galvanometers for LP System 100.0 secs.
Windhoek (WIN)	22°34'S	17°06 E	Height 1728m.	Lithologic Foundation Micha Schist	Seismological Officer: Director, Geological Survey, P.O. Box 401 Pretoria. <u>Instrument:</u> Same as Pretoria. <u>Seismological Officer:</u> Officer in charge
Grahamstown (GRH)	33°18.6'S	26°34.5'E	Height 558m	Lithologic Foundation Dwyka Shale	<u>Instrument:</u> Benioff S.P. vertical with short and long period recorders <u>Seismological Officer:</u> Professor of Physics Rhodes University.
Pietermaritzburg. (PIE)	29°37.2'S	30°23.8'E	Height 656m.	Lithologic Foundation Soft Ecca Shale	<u>Instrument:</u> Benioff S.P. vertical <u>Seismological Officer:</u> Professor of Physics Natal University.
Kimberley (KIM)	28°45.1'S	24°46.8'E	Height 1321 m	Lithologic Foundation Dolerite boulders embedded in decayed dolerite.	<u>Instrument:</u> Benioff S.P. Vertical <u>Seismological Officer:</u> Rev. Br. N.G. Alter Christian Brothers College.

Data is occasionally reported herein by courtesy of the Republic Observatory, Johannesburg, which operates a 200kg. Wiechert Horizontal seismograph. This station is called J, and is at 26°10.9'S, 28°04.5'E, height 1806 metres.

All times are given in G.M.T.
The supervision of this network and bulletin is at present in the hands of the undersigned to whom all enquiries should be addressed.

Address
Bernard Price Institute of Geophysical Research,
University of the Witwatersrand,
Jan Smuts Avenue,
Johannesburg, South Africa.

H.O. Oliver.
Seismological Officer.

Date	Station	Phase	G. M. T.	Arc Dist.	(28) R/C	Remarks
2	WIN	iPKP	00 40(04.5)	128		USCGS H=00 21 10.8 5.1 S 153.4 E New Ire-land reg. h=55 mag. 5.5
2	WIN	iP	22 56 29.3	75		USCGS H=22 45 08.5 22.6 S 66.6 W July July Prov. Argentina h= 237 mag. 5.3
3	WIN	iPKP2	02 44 42.0	151		USCGS H= 02 24 54.1 51.8 N 173.3 W Andrea-nof I's Aleutian I's h=39 mag.4.6
4	PIE	i	01 17 08	155		
5	PRE	iPKP	09 37 58.0	150	C	USCGS H=09 18 09.9 55.9 N 154.6 W S.of Alaska h=33 mag. 4.8
5	PRE	i	15 25 10.0			
5	GRM	t	18 46 00			
6	KIM	iP	23 39 06	84		USCGS H=23 27 21.2 27.8 S 71.1 W near coast N Chile h= 33 mag. 5.8
	PIE	iP	58	87		
6	GRH	i	23 54 30.5		C	
8	KIM	iP	18 56 50	85		USCGS H= 18 44 24.5 18.6 S 69.9 W N. Chile h= 116 mag. 5.4
	GRM	t	57 00			
11	WIN	t	15 51 00			
11	PIE	iP	19 50 59	216km		BPI H= 19 50 26 28.30 S 28.30 E Witzieshor - ek reg. S.A. Lesotho na border
		iS	51 23			
	GRM	iP	23.7	450km		
		iS	52 07.7			
11	WIN	t	57 00			
11	PIE	iP	23 17 43	225km		Same region as above
		iS	18 08			
12	GRM	iPn	01 00 48.3			Uitenhage area . Felt over a wide area. /
	PIE	iPn	01 51	730km		BPI H= 01 00:16
			02 14			
		iSi	03(40)			
	WIN	iPn	02 58.5			
		iSn	04 54.0			
	KIM	iPn	01 20	480		
			24			
12	PIE	iP	05 22 42	214km from station		
		iS	23 06			
12	PIE	iP	04 48 30	216km from station		
		iS	54			
13	GRM	i	16 18 50.0			Probably Argentine
13	PIE	t	00			
14	WIN	iPP	08 22 04.0	192		USCGS H=08 01 27.8 22.5 S 179.6 W South of Fiji Islands h= 610 mag. 5.2
14	PIE	iPn	10 38 09	760km		25 S 32 E BPI H=10 36 30 Mocambique
		iSn	39 20			
	KIM	iPn	38 44	1050km		
		iSn	40 19			
	GRM	iPn	39 17.5			
		iSn	42 55.5			
		iS	42 30.5			
	WIN	iPn	40 03.5	1800km		
		iSn	42 50.5			
		iSi	44 12.9			
14	PIE	t	12 01 00			
14	kim	iP	12 38 35	68		USCGS H= 12 28 24 37.8 N 13.1 E Sicily h= 33 mag. 5.1
	GRM	iP	20.0	72	D	
14	WIN	t	45 00			
14	WIN	iPKP2	13 00(32.0)	151		USCGS H=12 40 48.5 52.8 N 171.4 W Fox I's Aleutian I's h= 44 mag.5.6
14	WIN	iPKP2	18 02(55.0)	151	C	USCGS H= 17 43 10.0 52.7 N 171.2 W Fox I's Aleutian I's h= 34 mag 5.5
15	WIN	iP	02 11 13.5	61	C	USCGS H=02 01 08.5 37.9 N 13.1 E Sicily h= 33 mag. 5.4
15	PRE	t	18 37 00			
15	WIN	t	39 00			
16	WIN	i	14 51 30.1		C	
16	WIN	iP	16 52 54.0	61	C	USCHS H= 16 42 44.3 37.9 N 13.1 E Sicily h= 14 mag. 5.1
16	WIN	i	18 34 21.0			
19	WIN	iPKP	06 23(48.6)	132		USCGS H=06 04 38.2 9.4 S 158.4 E Solomon I's h= 33 mag. 6.0
19	PRE	t	24 00			
19	KIM	iP	14 51 42	72		USCGS H=14 39 37.8 42.6 S 75.2 W off coast S. Chile .h=22 mag.5.5
	PRE	iP	58.0	81		
19	PRE	i	15 30 00			
19	PIE	i	18 33 51			
19	KIM	i	24 42		C	
19	GRM	i	44.0		C	
19	GRM	i	47.9			

January 1967 continued				S.	Arc.	R/C	(29)	
Date	Station	Phase	G. M. T.	Dist.				Remarks
19	KIM	i	21 39 36			R		
	PRE	i	39.5			C		
	WIN	i	52.2			C		
21	WIN	iP	16 49(40.0)	38				USCGS H= 16 42 29.2 1.2 S 14.0 W North of Ascension I's. h= 33 mag.-
	PRE	iP	51 04.0	48				
	GRM	iP	17.7	50				
	PIE	t	52 00					
21	WIN	iPKP	23 14 21.0	130		C		USCGS H= 22 55 35.8 5.0 S 150.8 E New Britian region h= 185 mag. 5.0
22	PIE	iP	20 11 24	207km				from station
		iS	47					
22	PIE	iP	21 16 56	225km				from station
		iS	17 21					
23	PIE	iP	00 56 37	225km				from station
		iS	57 02					
23	PRE	iPKP2	16 26 36.0	153				USCGS H=16 06 50.1 52.1 N 171.3 W Fox I's Aleutian I's h= 53 mag. 5.2
	WIN	iPKP2	36.5	152				
	PIE	ePKP2	(41)	156				
23	PIE	iP	21 14(10)	8				USCGS H=21 12 37 23.5 S 33.0 E Mozambique h= 33 mag.-
		iS	15 21					
	KIM	i	(55)	14				
	WIN	iP	16 03.5	19				
		iS	20(20.0)					
25	WIN	i	10 06 55.1			R		
25	PRE	iS	18 14 23.9					
	WIN	t	16 00					
26	PIE	iP	04 58 21	90				USCGS H= 04 45 41.4 8.8 S 120.4 E Flores I's region h= 29 mag. 5.9
	PRE	iP	33.5	92		C		
	GRM	iP	(33.5)	92		C		
	WIN	iP	59 23.1	102		D		
29	KIM	i	05 11 35					
	PIE	t	12 00					
29	WIN	iP	10 32 21.0	131		C		USCGS H= 10 18 16.5 5.6 S 153.9 E New Ireland region h=70 mag. 5.3
29	PRE	iPKP	10 38 08.0	128		D		USCGS H=10 19 05.6 43.6 N 146.7 E Kurile I's h= 40 mag.-
	KIM	iPKP	10	132				
	WIN	iPKP	13.9	134				
29	PRE	i	12 08 56.0			R		
29	PRE	iPKP	17 01 54.0	128		C		USCGS H=16 42 50.4 43.5 N 147.2 E Kurile I's h= 36 mag. 5.7
29	WIN	iPKP2	21 12 01.5	142		D		USCGS H=20 52 21.3 56.4 N 153.6 W Kodiak I's reg. h=6 mag. 5.4.5
	PRE	iPKP2	11.5	151		D		
29	PRE	iPKP2	21 31 23.5	151		C		USCGS H=21 11 36.1 56.5 N 153.3 W Kodiak I's reg. h= 19 mag. 5.6
30	PRE	iP	01 49 20.0			C		
30	PIE	iP	03 55(43)	83				USCGS H=03 44 24.2 6.1 S 113.3 E Java h= 594 mag. 6.2
	PRE	iP	49.5	86		C		
	KIM	iP	56 04	88				
	WIN	iP	39.5	95		C		
30	WIN	i	20 24 29.1			R		
30	PRE	i	22 38 00.0					
31	WIN	iP	02 13 54.5	71		C		USCGS H= 02 03 29.4 27.7 S 63.2 W Santiago De Del Estero Province Argentine h= 580 mag. 4.9
31	PRE	i	20 25 13.0					
31	WIN	t	22 39 00					

H.O. Oliver
Winifred Wagner.

5 - MAR 1968

6 JUN 1968

Geological Survey Office,
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Windhoek (WIN)	22°34'S	17°06 E	1728m.	Micha Schist	Vertical L.P. (15sec) Seismometer: Sprengnether Two horizontal L.P.(15sec) Seismometers Sprengnether Galvanometers for S.P. System 0.75 secs. Galvanometers for LP System 100.0 secs.
Grahamstown (GRH)	33°18.6'S	26°34.5'E	558m	Dwyka Shale	Vertical L.P. (15sec) Seismometer: Sprengnether Two horizontal L.P.(15sec) Seismometers Sprengnether Galvanometers for S.P. System 0.75 secs. Galvanometers for LP System 100.0 secs.
Pietermaritzburg. (PIE)	29°37.2'S	30°23.8'E	656m.	Soft Ecca Shale	Vertical L.P. (15sec) Seismometer: Sprengnether Two horizontal L.P.(15sec) Seismometers Sprengnether Galvanometers for S.P. System 0.75 secs. Galvanometers for LP System 100.0 secs.
Kimberley (KIM)	28°45.1'S	24°46.8'E	1321 m	Dolerite boulders embedded in decayed dolerite.	Vertical L.P. (15sec) Seismometer: Sprengnether Two horizontal L.P.(15sec) Seismometers Sprengnether Galvanometers for S.P. System 0.75 secs. Galvanometers for LP System 100.0 secs.

Seismological Officer: Director, Geological Survey, P.O. Box 401 Pretoria.

Instrument: Same as Pretoria.
Seismological Officer: Officer in charge

Instrument: Benioff S.P. vertical with short and long period recorders
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Date	Station	Phase	n. m. s. G. M. T.	Arc Dist.	R/ C	(32)	Remarks.
1	WIN	t	10 22 00				
2	PRE	iPKP2	03 34 36.6	152	C		USCGS H=03 14 44.5 49.2 N 129.1 W Vancouver I's region h= 33 mag. 5.1
2	WIN	t	05 46 00				
2	PRE	iP	11 22 55.5	52			USCGS H= 11 14 01.1 60.7 S 25.5 W S. Sandwich I's reg. h= 33 mag. 5.3
2	PRE	iPcP	16 30(20.1)	89			USCGS H= 16 17 29.0 29.9 N 100.2 E Szechwan Prov. China h= 24 mag. 5.1
2	PRE	t	16 40 00				
2	PIE	iP	22 10 40	45	C		USCGS H= 22 02 24.8 6.1 S 71.4 E Chagos Archipelago reg. h= 33 mag. 5.6
	PRE	iP	(42.6)	46			
	GRM	iP	11(11.0)	50	B		
	KIM	iP	12	50	B		
	WIN	iP	53.9	55			
3	PRE	iP	23 08 10.8	95			USCGS H= 22 55 36.8 1.6 N 122.6 E, Northern Celebes h= 435 mag. 5.5
4	PRE	t	00 00 00				
4	PRE	iPn	05 12 07.3	17			USCGS H= 05 08 19.0 9.7 S 32.7 E Zambia h=33 mag. 4.8
		iSi	16(51.8)				
	WIN	iPn	12 49.0	21			
		iSi	18 44.0				
	PIE	iP	12 51	20			
	GRM	iP	13 31.9	25			
4	PRE	iP	07 29(14.3)				Probably Mozambique
		iS	33(53.3)				
	WIN	iP	29 50.1				
		iS	35(35.5)				
4	WIN	i	11 34 44.4				
4	PRE	t	23 57 00				
5	PRE	iPKP2	00 42 01.9	153			USCGS H= 00 22 06.9 53.8 N 163.3 W Unimak I's region h=23 mag. 4.8
	WIN	iPKP2	02.0	150			USCGS H= 00 30 57.4 53.8 N 163.3 W Unimak I's region h= 33 mag. 4.9
5	WIN	iPKP2	00 50 43.5	150			
	PRE	iPKP2	47.5	153	B		
5	WIN	t	11 34 00				
5	WIN	t	15 40 00				
5	WIN	t	23 04 00				
7	GRM	t	01 30 00				
	WIN	t	32 00				
7	WIN	ePKP	13 41(21.1)	126			USCGS H=13 22 16.6 5.9 S 151.1 E New Britian region h= 39 mag. 6 1/2
9	PRE	iP	00 57(27.5)	73			USCGS H=00 46 00.9 8.7 N 94.0 E Nicobar I's region h= 33 mag. 5.0
	WIN	iP	58 18.5	81			
10	PRE	iPKP2	04 09(07.0)	149			USCGS H=03 49 25.0 52.1 N 177.3 W Andreanof I's Aleutian I's h= 7 mag. 5.4
	WIN	iPKP2	(15.5)	150			
	PIE	iPKP2	(17)	150			
	KIM	iPKP2	(19)	152			
11	GRM	iPKP	08 45 21.6	127			USCGS H=08 26 32.8 16.2 S 173.9 W Tonga I's h= 112 mag. 6.0
11	WIN	i	18 44 44.6				
13	PRE	iP	09 40 25.1	47			USCGS H= 09 31 47.5 57.1 S 23.7 W S. Sandwich I's region h= 33 mag. 5.2
13	PRE	iPKP2	14 44 04.9	149	B		USCGS H=14 24 23.4 51.7 N 175.4 W Andreanof I's Aleutian I's h= 54 mag. 4.4
15	PRE	t	02 34 00				
16	PRE	t	07 14 00				
	WIN	t	15 00				
16	WIN	t	12 29 00				
16	PRE	i	13 12 35.6				
17	PRE	t	20 33 00				
18	PRE	i	13 13 18.5				
19	WIN	t	15 04 00				
20	WIN	iPcP	06 32 38.0	-77	R		USCGS H= 06 20 30.8 20.3 S 70.0 W near coast N Chile h= 47 mag. 5.1
20	PRE	i	07 30 05.0		C		USCGS H=07 54 40.4 40.9 N 75.1 E Kirgiz-Sinkiang border region h= 60 mag. 4.6
20	PRE	iPPP	08 06 42.2	51			USCGS H=12 13 08.4 51.4 N 177.7 E Rat I's Aleutian I's h= 45 mag. 5.1
20	PRE	iPKP1	12 32 42.9	150	C		
	WIN	iPKP1	50.0	154			
	KIM	iPKP1	55	154			
20	WIN	t	13 05 00				
20	PRE	t	19 16 00				
	WIN	t	18 00				
21	WIN	e	02 07(40.0)				
21	PRE	t	03 13 00				
	WIN	t	15 00				
21	WIN	t	04 11 00				
21	PRE	iS	13 02 48.4				

March 1968 continued.

Date	Station	Phase	h. m. s. M. M. T.	Arc. Dist.	R/ C	(33)	Remarks
21	PRE	t	23 36 00				
22	KIM	iPcP	02 08 04	84			USCGS H= 01 55 43.5 20.4 S 69.0 W N. Chile h=96 mag. 5.5
23	PRE	t	03 50 00				
23	PRE	t	03 57 00				
23	PRE	i	15 19 47.0		R		
24	WIN	iPP	07 21 06.9	46	R		USCGS H= 07 12 47.4 1.3 S 24.2 W Central Mid Atlantic Ridge h= 33 mag. 5.4
24	PRE	iPoP	22 25.5	56	R		USCGS H=00 41 56.9 6.6 S 116.1 E Bali Sea h=520 mag. 5.9
26	PRE	iP	00 53 40.5	85			Probably Mozambique
26	PRE	iP	13 17 30.4				
26	PRE	iS	19 00.0				
26	WIN	iP	44.7		C		
26	WIN	t	20 00 00				
27	WIN	t	04 35 00				
27	WIN	iSi	08 31 46.5				
27	PRE	i	13 56 00				
27	PRE	t	22 55 00				Probably New Guinea region.
28	PRE	i	07 49(32.0)				
28	WIN	i	50 08.0		C		
28	KIM	i	48				
28	KIM	iPcP	13 49 27	77			USCGS H=13 37 50.2 34.9 S 69.4 W Chile- Argentine border reg. h=138 mag. 5.0
28	PRE	iP	50.0	81			
28	PRE	i	14 17 55.5				
29	PRE	i	13 22 09.1		C		
30	PRE	iPKP2	12 46 26.9	152			USCGS H= 12 26 37.7 52.4 N 169.3 W Fox I's Aleutian I's h= 36 mag. 4.5
31	PRE	t	11 00 00				
31	WIN	t	00				
31	PRE	iPKP1	17 53 59.0	147			USCGS H= 17 34 25.8 59.6 N 153.3 W S. Alaska h= 79 mag. 4.5
31	PRE	iP	23 40 50.9				
31	PRE	iS	47 22.5				
31	WIN	iP	41 20.4				
31	WIN	iS	48(57.0)				Probably Far North.
31	GRH	t	50 00				

H.O. Oliver.
Winifred Wagner.

26 APR 1968

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Pretoria (PRE)	25°45.2 'S	28°11.4'E	1350m.	Vertical S.P.(1.0 sec.) seismometer: Geotech Model 1051 Two horizontal S.P.(1.0sec) seismometers Geotech Model 1101 Vertical L.P. (15sec) Seismometer: Sprengnether Two horizontal L.P.(15sec) Seismometers Sprengnether Galvanometers for S.P. System 0.75 secs. Galvanometers for LP System 100.0 secs.
			<u>Lithologic Foundation</u> Weathered shale	<u>Seismological Officer:</u> Director, Geological Survey, P.O. Box 401 Pretoria.

Windhoek (WIN)	22°34'S	17°06 E	<u>Height</u> 1728m. <u>Lithologic Foundation</u> Micha Schist	<u>Instrument:</u> Same as Pretoria. <u>Seismological Officer:</u> Officer in charge
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Pietermaritzburg. (PIE)	29°37.2'S	30°23.8'E	<u>Height</u> 656m. <u>Lithologic Foundation</u> Soft Ecca Shale	<u>Instrument:</u> Benioff S.P. vertical <u>Seismological Officer:</u> Professor of Physics Natal University.
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Kimberley (KIM)	28°45.1'S	24°46.8'E	<u>Height</u> 1321 m <u>Lithologic Foundation</u> Dolerite boulders embedded in decayed dolerite.	<u>Instrument:</u> Benioff S.P. Vertical <u>Seismological Officer:</u> Rev. Br. N.G. Alter Christian Brothers College.
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H.O. Oliver.
Seismological Officer.

February continued				h. m. s.		Arc.		R/ (31)		Remarks
Date	Station	Phase	G. M. T.	Dist			C			
21	GEM	iP	23 23	58.2						
		iS	26	21.9						
	PIE	iP	24	42						
		iS	27	(31)						
	KIM	i	25	19						
	PRE	i	30.5							
	WIN	i	26	34.9						
21	PRE	t	23	57 00						
22	WIN	iPKP1	17 08	43.2 151			C	USCGS H=16 49 58.6 51.4 N 176.1 W Andreanof		
	PRE	iPKP1	09	40.1 151				I's Aleutian I's h= 54 mag. 4.5		
22	PRE	iPKP2	18 06	39.5 151				USCGS H=17 46 57.4 51.4 N 176.3 W Andreanof		
	WIN	iPKP2		43.0 151				I's Aleutian I's h= 49 mag. 5.1		
	PIE	iPKP2		45 153						
	KIM	iPKP2		(49) 156						
22	PRE	iPKP2	18 33	39.9 151			C	USCGS H=18 13 59.3 51.4 N 176.2 W Andreanof		
22	WIN	t	19	30 00				I's Aleutian I's h=66 mag. 4.4		
22	PRE	i	20	49 11.2						
23	PRE	iPKP2	00 30	20.1 151				USCGS H= 00 10 39.5 51.5 N 176.3 W Andreanof		
	WIN	iPKP2		23.5 151				I's Aleutian I's h= 65 mag. 4.6		
23	PRE	iPKP2	01 59	52.0 151				USCGS H= 01 40 12 51.6 N 177.2 W Andreanof		
23	PRE	t	06	19 00				I's Aleutian I's h=54 mag. 4.5		
23	WIN	t	20	00						
23	PRE	iPKP2	08 32	35.6 151				USCGS H=08 12 55.7 51.6 N 175.9 W Andreanof		
								I's Aleutian I's h=55 mag. 4.5		
								USCGS H= 09 32 26.1 51.5 N 176.3 W Andreanof		
								I's Aleutian I's h= 49 mag. 4.6		
23	WIN	t	17	30 00						
24	WIN	t	02	28 00						
	PRE	t		00						
24	PRE	i	04 06	45.0						
24	PRE	i	19 00	02.2						
25	WIN	iPKP2	18 28	06.7 151				USCGS H=18 08 19.9 51.4 N 176.0 W Andreanof		
	KIM	ePKP2		(08)				I's Aleutian I's h= 50 Mag. 5.3		
26	WIN	t	10 55	00						
26	PRE	iP	11 04	(11.5)104				USCGS H= 10 50 16.7 22.7 N 121.5 E Taiwan region		
								h= 24 mag.-		
26	PRE	i	23 09	36.0						
26	WIN	t	12 30	00						
28	PRE	i	13 20	(08.6)						
28	PRE	i	16 44	32.4						

H.O. Oliver
Winifred Wagner.