Jan-Dec '36
Ref 3248

Pei-An-Ho, W. of Peiping, China
φ: 40°3'55" N, λ: 116°5'44" E
h: 115m; Foundation: Granite

THE CHIUFENG SEISMIC STATION
of the
GEOLOGICAL SURVEY OF CHINA

Instruments: 200 kg. horiz., 80 kg. vert. Weichert; Galitzin-Wilip.

Weichert	V	T_o	ε	γ/T_o^2
Z	--	--	--	--
N	106.4	5.0	3.4	.011
Jan.17 E	100.7	4.9	2.9	.017

Mar. 29, '35
Oct. 22, '35
Oct. 24, '35

Galitzin-Wilip	T_1	T	μ^2	kA/πl
Z	11.01	10.31	.002	524
N	11.37	11.63	.019	732
E	11.20	10.26	.026	754

January, 1936 60

No.	Date	Char.	Phase	G. M. T. h m s	T_p s	A μ	Δ km	Remark
1597	1,I	Ir	eNZ	3 51 38			2345	
			eE	39				
			eS_{NZ}	55 26				
			eL	57 30				
			M	59.3				
			F	4 28 --				
1598	2	Iu	P_{NZ}	0 46 40			6080	condensation
			eS_N	54 19				E-component lost.
			M_N	1 12 30	15			
			M_Z	32	14			
			F	2 03 --				
1599		Iu	iP_{NZ}	17 35 32			49.5°	condensation
			pP_{NZ}	46				E-component lost.
			PP_{NZ}	37 27				Deep focus.
			S_N	42 36				
			sS_N	43 03				
			i_Z	48 27				
			i_N	38				
			eL_{NZ}	52.4				
			M_{1Z}	57 37				
			M_N	18 02 02	14			
			M_{2Z}	04	14			
			F	48 --				
1600		IIu	iP_{NZ}	22 42 25			5220	condensation
			i_N	43 06				E-component lost.
			i_Z	44 21				
			i_N	56				
			PcS_N	47 52				
			i_Z	48 26				
			i_N	38				
			iS	49 16	11			
			ScS_N	52 31				
			L_Z	55 19				
			L_N	56 40				
			M_{1Z}	23 02 23	17	35mm.		
			M_{1N}	31	18	40		
			M_{2N}	04 43	15	24		
			M_{2Z}	48	15	42mm.		
	3		F	2 24 --				
1601	5		M	15 54.4				Small
1602	6		e?Z	3 31 10				Small
			e?N	14				
			i_{EN}	35 26				
			F	4 20 --				
1603		I	eL	13 20.5				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1603	6,I (cont.)		M_{EN}	13 21.5				
			F	33 --				
1604	10	0	iS_{EN}	23 38 41				
			F	0 01 --				
1605			M	22 31.4				Very small.
1606	13		e_E	18 27 24				
			eL_{EN}	37.4				
			F	19 12 --				
1707	14		iP'_Z	5 56 08			15390	condensation
			P'_{EN}	08				Azi.: SW
			PP_N	59 36				
			PKS_{EZ}	6 00 00				
			$SKKS?_Z$	06 11				
			$SKKS_N$	22				
			$SKKS_E$	24				
			$SKSP_Z$	09 41				
			iSS_{EZ}	18 36				
			SS_N	44				
			L_{EN}	37.5				
			L_Z	44 58				
			M_N	49 43				
			M_{1E}	53 33				
			M_{2E}	7 09 07	23			
			W_2	23.4	19			
			F	8 28 --				
1708		0	P_{EZ}	12 24 03				condensation
			M_N	35 08	10			
			M_E	22	8			
			F	13 42?--				
1709		Iu	iP'	14 31 20			17110	dilatation
			P'_{2NZ}	51				Azi.: 311.4°
			i_{NZ}	32 35				No surface waves
			i_{NZ}	33 40				evident.
			$i(SKP)_{NZ}$	34 42				
			i_{NZ}	36 21				
			$SKS?_Z$	38 11				
			PPP_{NZ}	32				
			i_{NZ}	40 56				
			SKKS	42 12				
			i_Z	50				
			$SKSP_N$	45 46				
			$SKSP_Z$	55				
			PPS_Z	49 07				
			PPS_N	17				
			SS_N	54 57				
			i_{NZ}	55 31				
			i_E	56 23				
			i_{EZ}	57 15				
			F	16 55 --				
1710		Iu	P_{EZ}	17 52 53			8365	dilatation
			eP_N	53				
			PP_Z	55 37				

No.	Date	Char.	Phase	G.M.T.	Tp	Amu	km.	Remark
1610	14,I (cont.)		ePPPPNZ	17 57 22				
			SEN	18 02 32				
			eSZ	34				
			iE	03 09				
			iN	16				
			iLEN	12 12				
			MN	21 01	17			
			ME	23 22	19			
			MZ	26	18			
			F	19 50 --				
1611	15		(e)E	7 09 25				Small local shock.
			(e)N	26				
			MEN	10 11				
			F	16 --				
1612		Iu	iPZ	14 55 41			8876	condensation
			PN	41				Masked by micro.
			SEN	15 05 46				
			MEZ	34.6	15			
			F	16 38 --				
1613			PN	20 34 16			150km.	Local shock.
			SEN	31				
			iN	38				
			MZ	35 32	9			
			ME	34	9			
			F	42 --				
1614	17	O	eEZ	12 24 44				Initial uncertain.
			MEZ	28 21	11			
			F	44 --				
1615	18	O	ME	1 51 08	10			
			MZ	54 25				
			F	2 10 --				
1616	19	Ou	ePZ	22 48 47			6445	
			eSEN	56 47				
			eLNZ	23 06 58				
			F	37 --				
1617	20	IIr	iPNZ	17 03 07			3920	condensation
			iPE	10				
			iNZ	05 16				
			iSEN	08 44				
			iSZ	58				
			LEZ	11.0				
			iScS	13.29				
			M1N	15 45	10	10		
			ME	17 25	18	31		
			MZ1	18 15	16	19mm.		
			M2N	36	17	18		
			M2Z	19 55	15	17		
			F	19 12 --				
1618	22	Ou	PNZ	9 33 43			5045	condensation
			eSN	43 34				
			MZ	52 57				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1618 (cont.)	22, I	Ou	M_{EZ}	9 55 42				
			F	10 13 --				
1619			iN	23 30 05				Small local.
			i_{EZ}	07				
1620	23		M_{EN}	18 07.8				
1621	24		P_{NZ}	16 55 41				condensation
			M_Z	17 16 35				Small
			F	29 --				
1622	27	IIr	eP	19 34 39			2145	
			S_{NZ}	38 09				
			S_E	16				
			L	40.0				
			M_E	41 43				
			M_Z	45				
			F	20 36 --				

S. P. Lee, Superintendent
(Absent, in Germany)

Pan Chia Lin,
Assistant in Charge

Feb. 8, 1936

The Chiufeng Seismic Station of the Geological Survey of China beg to acknowledge with thanks the receipt of the following bulletins and publications, from November to December 1935, & January 1936.

J.S.A.	Prel. Bulletin: No. 24-31, 1935.
Oosaka	Seis. Bulletin: April to June, 1935 (Printed)
	Seis. Bulletin: No. 178-196, 1935.
Ksara	Bulletin sèismique: August & October, 1935.
Strasbourg	Seis. Bulletin: August to October, 1935.
Ottawa	Seis. Bulletin: August to October, 1935.
Pasadena	Seis. Bulletin: August to November, 1935.
Hongkong	Meteorological report: September, October, 1935.
	Seis. Bulletin: October to December, 1935.
Hamburg	Seis. Bulletin: No. 11-20, 1935.
St. Louis	Reverend Joseph S. Joliat, S.J. "Tentative Table of Travel times for Near Earthquakes."
	D. C. Bradford & C. G. Dahm "The Rodney, Missouri, Earthquake of August 20, 1934."
	J.B. Macelwane, S.J. "The Seismological work of the Jesuit Seismological Association in the United States."
	J.B. Macelwane, S.J. "The Structure of the outer crust of the Earth in the Pacific Ocean Region."
	J.B. Macelwane, S.J. "Memorial to the Reverend Frederick L. Odenbach, S.J."
Manila	Seis. Bulletin for 1934, July to December.
	Seis. Bulletin: September to November, 1935.
	Special Bulletin: October to December, 1935.
Wellington	Prel. Seis. report for Sept. to Oct., 1935.
Riverview	Seis. Bulletin: August to November, 1935.
Oxford	Seismological Investigations, British Association Section A., Norwich, 1935.
	British Association Publication No 21. A, Catalogue of Earthquakes, 1925-1930.
	H. Jeffreys & K.E. Bullen "Time of Transmission of Earthquake waves."
La Plata	Boletin Sismológico: Agosto to Octubre de 1935.
Apia	Prel. Seis. Bulletin: July to September, 1935.
Kew	Seis. Bulletin: September to November, 1935.
Tananarive	Bulletin Sèismique: January to April, 1935.
Uccle	Bulletin Sèismique: April to August, 1935.
Taihoku	Prel. Report: October to December, 1935.
Cartuja	Boletin Sismico: April to May, 1935.
Tokyo	Japanese Journal of Astronomy & Geophysics. Vol. XII 1934-1935 Transactions., & Vol. XIII No. 1 Transactions & Abstracts.
Zagreb	Seis. Bulletin: January to March, 1932, October to Dec., 1934 & January to March 1935.
Nanking	Prel. Bulletin: October to December, 1935.
	Quarterly Seis. Bulletin Vol. 4, No. 1 1935.
Zikawei	Bulletin sismique: No. 12-19, 1935.
Harvard	Seis. Bulletin: July-Dec., 1934 & Jan., to June, 1935.
	Zack E. Gibbs "Radio time-signal recording Apparatus."
	L.D. Leet "The Provincetown, Massachusetts, Earthquake of April 23, 1935, and Data for Investigating New England's Seismicity."
	Reginald A. Daly "Testing a theory of the Earth's Interior."
	John M. Ide "Some dynamic Metheods for determination of Young's Modulus."
	Grégory P. Baxter & Chester M. Alter "The Atomic Weights of Several Radiogenic Leads."
	A. L. Loomis & H. T. Stetson "Further Investigations of an Apparent Effect in Time Determinations."
	Francis Birch & Russell R. Law "Measurement of Compressibility at High Presures and High Temperatures.
Hawii	The Volcano Letter: May to June, 1935.
Zürich	Schweizerisches Erdbebenbulletin: Okt. to Nov., 1935.
Tyosen	Preliminary Report: July to October, 1935.
Batavia	Seis. Bulletin: June to September, 1935.
Acad. of Sci.	U.S.S.R. Seis. Institute Publication No. 70 to 72.

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Galitzin-Wilip		T₁	T	μ²	kA/πl
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No.	Date	Char.	Phase	G. M. T. h m s	T_p s	A μ	Δ km	Remark
1623	31, I	Iv	eP_{EZ}	18 55 19			1365	Disturbed by microseisms. Deep focus type.
			eP_N	20				
			iS	57 26				
			F	19 07 --				
1624	3, II		M_Z	21 30.5				
1625	4		eP_Z	12 41 54			6000	Small
			S_{EN}	49 28				
1626	6	Ou	eP_{NZ}	4 12 42				
			e_E	19 09				
			e_Z	22 49				
			M_E	32 21	15			
			M_Z	33 30				
			F	5 13 --				
1627			$(e)_Z$	21 10 03				Small & indefinite.
			M_Z	14 30				
1628	7	Ou	iP_Z	1 00 55			10090	condensation Preliminaries of E-component lost.
			eP_N	55				
			$eSKS_N$	11 24				
			S_N	57				
			eL_{EZ}	32.1				
			M_E	36 41				
			F	2 10 --				
1629		IIIv	iP_E	8 59 06			1220	Z-comp. of Galitzin lost. May be initial of second quake. S et seq. from Wiechert, Large and faint on Galitzin. Damages at Lanchou City and Lintau, Kansu. Intensity R.F.IX.
			eP_N	06				
			iE_N	50				
			S_{EN}	9 01 09				
			L	02.0				
			M_{1N}	02 50				
			M_{1E}	54				
			M_{2N}	04 22				
			M_{2E}	49				
			F	11 34 --				
1630		I	$(e)_Z$	15 12 33				
			M_N	13 00	6			
			M_E	17				
			M_Z	52	9			
			F	23 --				
1631	8	Iu	eP_{EN}	12 20 21				Disturbed by micro Z-component lost. Deep focus. Depth.: 0.015 R.
			ip^P_{EN}	42				
			S_N	27 37				
			iP^P_E	43				
			is^S_N	28 11				
			iS^S_E	20				
			Sc^S_N	30 05				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1631	8,II		SS_{EN}	12 30 59				
			M_E	37 59	19			
			F	13 48 --				
1632	9	Iv	eP_{EN}	4 38 34			1920	Disturbed by micro.
			eP_Z	36				
			eS	41 44				
			i_N	42 21				
			M	46.1				
			F	5 07 --				
1633	10	Iu	iP	18 17 18			75.8°	dilatation
			pP_Z	47				Deep focus.
			i_Z	19 18				Depth.: 0.02 R.
			i_Z	20 10				Azi.: 117.4°
			iS_{EN}	26 51				In region of
			sS_E	27 44				10.5°S, 177°E
			i_E	30 34				
			SS_Z	31 19				
			F	19 32 --				
1634	11	I	$eP?_Z$	4 58 27				Uncertain
			$eP?_E$	31				
			M_N	5 03 43	11	5		
			M_E	48	11			
			M_Z	04 24				
			F	27 --				
1635		O	e_E	20 17 17				
			e_{NZ}	17.3				
			M_{EN}	21.5	10			
			F	33 --				
1636	12		eL_{EZ}	5 33.1				Trace of surface waves.
1637		Ir	iP_{NZ}	9 42 10			40.7°	dilatation
			P_E	10				Azi.: SE
			pP_N	30				Deep focus.
			i_Z	53				Depth.: 0.015 R.
			i_{NZ}	44 55				
			iS_{EN}	48 15				
			sS_{EZ}	53				
			F	10 36 --				
1638			$e?_N$	20 26 31				Small & indefinite.
			i_{EN}	30 20				
1639	13		M_N	0 36 31				Small
1640			M_N	2 08 43				Trace
1641			eL_{EN}	16 03.2				Small
			M_N	04 36	15			
			M_E	43	15			
1642	14		eL_{EN}	7 34 53				
			M_N	38 58	16			
			M_E	39 11	16			
1643		I	e	10 07.0				Initial small & indefinite.
			i_E	40				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1643	14,II		i_E	10 07 54				
			M	09.7				
			F	24 --				
1644	15	IIIr	iP	12 55 30			5010	condensation
			PP_{EZ}	57 06				Azi.: 151.5°
			PcP_E	16				Probable epicenter:
			PcP_{NZ}	19				6°S, 132°E
			iS	13 02 08				(U.S.C.G.S.)
			$iSSS_E$	05 56				
			$iSSS_Z$	06 08				
			L_Z	09 20				
			M_E	11 53		74mm.		
			M_{1Z}	12 29	19	61mm.		
			M_N	13 12		97mm.		
			M_{2Z}	16 16	16	59mm.		
			F	17 02 --				
1645	16	Iu	iP	14 29 14			69.3°	dilatation
			pP_{NZ}	33				Deep focus.
			iS_N	38 17				Depth.: 0.01 R.
			sS_E	45				Azi.: SE
			ScS_{NZ}	39 01				
			i_N	24				
			F	15 27 --				
1646	17	I	e_{NZ}	23 26 34				Initial uncertain.
			e_N	30 25				
			eL	32.3				
			M_N	33 48	8			
			M_E	51	9			
1647	18		$eL?_E$	2 45.0				Small
			$(M)_E$	46 26				
			M_{NZ}	49.8	11			
1648		Ir	P	14 35 40			2780	dilatation
			S	40 01				
			M_N	43 50	14	6		
			M_{EZ}	45 57	8			
			F	15 37 --				
1649	21	IIv	iP	1 11 53			1935	dilatation
			S_N	15 05				Azi.: SE
			S_{EZ}	11				Press report:
			L_N	16.0				Felt in Oosaka,
			L_{EZ}	16.9				Tokyo & vicinity.
			M_E	19 39	10	14		Intensity VIII-IX
			M_Z	39	10	19mm.		R.F.
			M_N	20 12	11	13		
			F	2 43 --				
1650		IIr	eP	6 25 51			2735	
			iP	56				condensation
			PP_N	26 21				
			S	30 08				
			L	32.9				
			M_E	34 05	14	30		
			M_N	12	14	22		
			M_{1Z}	35 03	12	19mm.		
			F	7 50 --				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1651	21,II		eP_{EZ}	11 32 20				Small
			M_E	37 52	10			
			M_N	38 16	8			
			F	55 --				
1652		O	eP_{NZ}	15 16 15				
			M	24.3				
			F	48 --				
1653		Iu	eP	17 06 19			5600	
			iP	37				dilatation
			PP_{EZ}	08 22				iP, Azi.: SE
			PPP_E	09 23				
			S	13 30				
			i_N	56				
			i_{EN}	16 37				
			SS_E	53				
			L	21.6				
			M_E	23 24	20	14		
			M_{1Z}	24 48	21	11mm.		
			M_{2Z}	27 18	19	12mm.		
			M_N	28 21	19			
			F	19 09 --				
1654	22	I	iP_{NZ}	15 45 41				dilatation
			eP	41				All phases after P lost.
1655		Iu	P_Z	19 36(39)			11030	dilatation
			PP_Z	40(36)				E- & N-comp. lost.
			$eSKS_Z$	47(15)				Time uncertain
			PS_Z	49(27)				due to failure of
			SS_Z	54(36)				time marks.
			eL_Z	20 12(05)				
			M_Z	17(39)	21			
			F	22 15 --				
1656	23	Or	$(e)_N$	12 30 49			2245	
			S_E	34 28				
			M	40.0				
			F	52 --				
1657	24	Ir	e_N	7 05 32			2700	Initial uncertain.
			S_N	09 48				
			M_{EN}	13.8	13			
			M_Z	15 07	11			
			F	36 --				
1658			eL_N	16 59 26				Trace of surface
			M_{EZ}	17 05.4				waves.
1659	27	Iu	P_Z	10 12 38			46.8°	dilatation
			eP_{EN}	39				Deep focus.
			pP_{EN}	13 03				Depth.: 0.02 R.
			iPP	14 04				
			PPP_{NZ}	15 25				
			iS_{NZ}	19 21				
			iS_E	22				
			sS_E	20 07				
			sS_{NZ}	09				
			i_{EN}	49				
			i_Z	21 17				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1659	27,II		SS_{EN}	10 22 14				
			F	12 02 --				
1660		0	eL	17 12.4				
			M	18.1				
1661	28	Iu	P	3 12 50			6135	condensation
			eS_{EN}	20 35				
			eL_{EN}	29 47				
			eL_Z	31 01				
			M_E	39 16	15			
			M_{NZ}	40.3	17			
			M_{2Z}	42 08	10			
			F	4 26 --				
1662		Iu	iP_{NZ}	16 23 45			5010	dilatation
			S_N	30 23				Initial inevident on E-comp.
			S_E	26				
			L_{EZ}	37 17				
			M_E	43 49	16	10		
			M_Z	46 58	14	10mm.		
			M_N	47 02	13			
			F	17 43 --				

S. P. Lee, Superintendent
(Absent, in Germany)

Pan Chia Lin
Assistant in Charge

March 7, 1936

Errata: Chiufeng Seismological Bulletin of January, 1936.

p 60 should read p 1
p 61 " " p 2 Earthquake No. 1709: Azi.: 311.4° should read 48.6°
p 62 " " p 3
p 63 " " p 4

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Mar. 16

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March, 1936 — 10

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1663	1, III	.Ir	iP	10 26 30			2210	dilatation
			iS_{NZ}	30 06				Azi.: 60.4°
			iS_E	11				South end of
			iL_Z	32 08				Sakhalin Island.
			iL_{NZ}	17				
1664		Iu	P_Z	10 40 21			9010	dilatation
			PP_Z	43 28				In coda of the
			S_N	50 35				previous.
			i	52 05				
			L_E	11 03 21				
			eL_{EZ}	07.4				
			M_{1Z}	12 29				
			M_{1N}	34				
			M_{2N}	26 30	15			
			M_{2Z}	34	17			
			F	12 51 --				
1665	2	IIIr	iP	3 23 49			2500	condensation
			iS_{EZ}	27 49				Azi.: 75.7°
			iS_N	51				East off Hokkaido
			L_{NZ}	29 58				Japan
			M_N	32 25	15	75		M- phase large &
			M_Z	33 57	14	133mm.		faint on E-comp.
			F	6 52 --				
1666	4		eP_N	6 38 16			5200·	Very small
			eP_Z	20				
			S_E	45 05				
			F	7 08 --				
1667			iE	15 46 26				
			M_Z	51 09	17			
			M_E	29	15			
1668	5		eL_{EZ}	7 07.5				Long trace of
1668	6		M_{EZ}	4 27.2	14			surface waves.
1670		Ou	P_{EZ}	14 38 30			9555	condensation
			$eSKS?_E$	48 55				
			S_E	49 09				
			M_Z	15 23 23	16			
			F	16 02 --				
1671	8	Iv	eP_{NZ}	0 31 47			1910	E-component lost.
			$e(S)_{NZ}$	34 56				
			iN	36 33				
			M_N	39 09				
			M_Z	40 10	12			
			F	1 03 --				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1672	8,III		e_{NZ}	1 32 30			2355	Very small
			$e(S)_{EN}$	36 18				
			$e(S)_Z$	26				
			F	2 03 --				
1673	10		e_Z	12 13 57			5600	Preliminary uncer-
			e_E	14 01				tain.
			S_N	21 08				
			F	13 13 --				
1674		IIr	eP_{EZ}	20 40 37			2435	
			PP_{EZ}	58				
			S_{EN}	44 31				
			$(S)_Z$	35				
			iSS_E	45 05				
			L_{EN}	46 26				
			L_Z	41				
			M_N	48 56	15	7		
			M_E	49 30	16	23		
			M_Z	34	16	18mm.		
			F	22 39 --				
1675	11	Ir	P_{EZ}	0 48 32			2420	condensation
			eP_N	32				Similar to the
			PP_Z	58				above one.
			S_Z	52 25				S_{EN} lost due to
			L_{EN}	54 33				human disturbance.
			M_Z	56 50	16	12mm.		
			M_E	54	15	10		
			F	2 38 --				
1676		Ir	$eP?_Z$	8 44 51			1880	Preliminary small
			$eS?_{NZ}$	47 58				and uncertain.
			M_{1Z}	49 44	4	11mm.		
			M_E	50 03	8	6		
			M_{2Z}	51 11	6	15mm.		
			F	9 20 --				
1677			e_E	11 08 09				
			e_Z	16				
			M_{NZ}	13 44	9			
			F	41 --				
1678	13		$e(L)_E$	4 36 46				Trace of surface
			M_E	41 39	13			waves.
1679	16	Iu	iP_{NZ}	19 57 23			4890	condensation
			S_{EN}	20 03 53				N-component time
			eL_E	10 34				marks lost. Phases
			M_E	18 59	14			measured with re-
			M_N	20 05	14			ference to iP_Z.
			M_Z	06	15			
			F	55 --				
1680	18		i_{EZ}	11 59 59				Masked by heavy
			i_{EZ}	12 04 22				microseisms.
			i_E	10 12				
1681		I	M	13 41 14				P- & S-phases
			M	42.5	8			lost due to heavy
								microseisms.

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1682	18,III	Ou	$(e)_{EZ}$	13 50 02			5420	Masked by heavy microseisms.
			$S?_E$	57 04				
			eL	14 05.3				
			M	10.1				
			F	21 --				
1683		I	i_E	22 37 23				May be not initial.
			e_N	40 38				
			M	51.4	12			
			F	23 15 --				
1684	19		(e)?	12 53 09				Trace
			$eL?_{EN}$	55.3				
1685	21	Ou	iP_{NZ}	0 05 42			8955	
			eP_E	42				
			eS_E	16 03				
			iPS_N	38				
			eL	32.9				
			F	1 22 --				
1686		Ou	P_Z	2 03 43			8165	dilatation
			eP_{EN}	44				
			S_E	13 15				
			S_N	50				
			eSS_{EN}	17 49				
			eL_E	26.7				
			M_E	34 12				
			M_{NZ}	34.8				
			F	3 ? --				
1687	22		M	6 45.8				
1688		Iu	iP	12 26 21			6875	condensation Azi.: 135° Southwest of Solomon Islands.
			iS_{EN}	34 44				
			ScS_E	36 09				
			ScS_N	13				
			SS_N	38 38				
			L_{EN}	45.8				
			eL_Z	46 16				
			M_{1N}	49 26	16			
			M_{2N}	52 52	15			
			M_Z	53 34	18			
			F	14 47 --				
1689		Ou	P	23 05 37			5145	condensation
			eS_N	12 23				
			eL_N	19 50				
			M_Z	24 56	20			
			M_N	26 13	19			
			F	56 --				
1690	24	Ou	(e)	21 48.8				Preliminary small. Time marks lost.
			eL_{EN}	22 [illegible]				
			M_Z	14 [illegible]				
			M_E	15 [illegible]	14			
			F	48 --				
1691	25	Ou	eP_Z	9 10 49			8730	
			eP_N	51				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1691	25,III		[illegible]$_N$	9 20 49				
			M_{NZ}	55.7	14			
			F	10 40 --				
1692			eL_N	20 14 33				A train of sur-
			$e(L)_E$	15 06				face waves.
			M	18.0				
1693	27		(e)	10 38 39				Small local shock
1694	28		e_N	14 08 13				Small local shock
			i	16				
			i_N	20				
1695	31	Iv	eP_Z	3 39 54			19.4°	Deep focus
			P_{EN}	54				Depth.: 0.015R.
			i	40 22				
			sP	30				
			S	43 17				
			sS	46				
			SS_E	44 05				
			F	4 35 --				

S. P. Lee, Superintendent
(Absent, in Germany)

Pan Chia Lin,
Assistant in Charge,

April 11, 1936

Pei-An-Ho, W. of Peiping, China
φ: 40°3'55" N, λ: 116°5'44" E
h: 115m; Foundation: Granite

THE CHIUFENG SEISMIC STATION
of the
GEOLOGICAL SURVEY OF CHINA

Instruments: 200 kg. horiz., 80 kg. vert. Weichert; Galitzin-Wilip.

Weichert		V	T₀	ε	τ/T₀²
	Z	--	--	---	--
	N	101.9	5.1	3.0	.013
April	E	101.1	4.9	3.2	.012

Galitzin-Wilip		T₁	T	μ²	kA/πl
Mar. 29, '35	Z	11.01	10.31	.002	524
Oct. 22, '35	N	11.37	11.63	.019	732
Oct. 24, '35	E	11.20	10.26	-.026	754

No.	Date	Char.	Phase	G. M. T. h m s	T_p s	A μ	Δ km	Remark
1696	1, IV	IIIr	iP_1	2 16 26			4055	condensation
			iP_{2EZ}	35				iP_1 on N-comp.
			iS_{EZ}	22 08				unclear.
			$iScS_{EN}$	26 52				Epc.: 3°N, 124°E
			L_{EN}	27.9				(U.S.C.G.S.)
			M_E	31 57	23			ScS and following
			M_N	32 02	18			from Wiechert.
			F	6 56 --				Phases large &
								faint on Galitzin.
1697		Ou	eP	20 05 32			6110	
			S_E	13 13				
			eS_N	17				
			F overlapped by next quake.					
1698		IIr	iP	20 18 08			4075	condensation
			iS_N	23 51				iP in coda of the
			iS_{EZ}	54				previous.
			ScS	28 21				Azi.: 153°
			L_E	29 21				West of Palau Is.
			M_{1E}	32 44	20	40		
			M_{2E}	34 02	22	44		
			M_{1Z}	06	21	21mm.		
			M_N	35 09	19	26		
			M_{2Z}	37 10	19	22mm.		
			F	22 49 --				
1699	2	Iu	e	6 26 12			6035	
			iP	20				dilatation
			iS_{NZ}	33 48				Azi.: 135°
			iS_E	49				New Ireland.
			i_{EZ}	34 09				
			SS_E	37 37				
			L_E	42.5				
			M_{1Z}	46 08	21	11mm.		
			M_E	47 40	20			
			M_N	50 11	17	11		
			M_{2Z}	15	16	13mm.		
			F	9 40 --				
1700		Or	eP_{NZ}	12 10 18			4020	
			$eS?_{EN}$	15 58				
			i_E	20 32				
			M_E	25 14				
			F	53 --				
1701	5		e_Z	14 32 36			2455	Small
			$(e)_E$	57				
			eS_{EN}	36 32				
			F	46 --				
1702	7		$eP?_E$	1 50 26			9165	Small

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1702	7,IV		iS_{EN}	2 00 47				Z-comp. disturbed.
			F	29 --				
1703	9		$(e)_N$	1 08 58				Small & indefinite.
			M_N	15 59				
			F	30 --				
1704		Ou	P_{EN}	7 24 35			9710	
			$eSKS_{EN}$	35 03				
			S_N	21				
			S_E	31				
			F	8 36 --				
1705		Iu	P	16 13 11			70.9°	condensation
			pP	30				Azi.: SE
			S_{EN}	22 17				Deep focus.
			i_{EN}	38				Depth.: 0.015 R.
			$iScS_E$	23 09				
			$iScS_N$	17				
			M_N	40 37	15			
			F	17 42 --				
1706	10	Or	eP_Z	17 00 29			3820	
			S_E	05 57				
			S_N	06 11				
			eL_{EZ}	11.2				
			M	16.3	15			
			F	18 08 --				
1707		IIIv	Pn	20 03 10			520	dilatation
			P^*N	22				
			$\overline{P}$?	33				
			Sn_{EZ}	04 02				
			S^*	18				
			$\overline{S}$	56				
			M_E	05 18				M-phase large on
			M_N	27				all Galitzin comp.
			F	58 --				
1708	11	Or	iP	23 44 07			3335	condensation
			S_{EN}	49 06				Azi.: 155.8°
			F	0 49 --				Bonin Islands.
1709	12	Or	eP_Z	2 44 31			4410	
			e_N	33				
			$eS?_N$	50 33				
			M	3 02 33				
			F	? --				
1710		IIIr	iP	20 58 13			3990	condensation
			PP_Z	59 33				Azi.: 142.5°
			i(PcP)	50	9			NW of Yap Islands.
			iS_{NZ}	21 03 51				i(PcP)of large
			$i(PcS)_{EN}$	04 07				amplitude.
			L	09.1				
			M_{1E}	10 38	18	97		M-phase faint on
			M_Z	13 40	17	66mm.		N-component.
			M_N	14 02	14	35		
			F	0 28 --				
1711	13		eP_{NZ}	0 35 44				Small shock.

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1711 (cont.)	13,IV		ePE	0 35 47				
			eE	41 28				
			F	1 31 --				
1712			(e)	7 42.3				Trace
			eZ	46 37				
			F	8 29 --				
1713	14		M	2 11 05				
1714	15	Ou	eP_{NZ}	6 14 43			5500?	Slightly deep.
			iZ	55				
			eS_{EN}	21 49				
			$eS?_Z$	59				
			M_Z	37 17				
			F	53 --				
1715		Ir	P	19 02 58			4265	condensation
			iPP	04 31				
			S_{EN}	08 52				
			eL	14.5				
			M_N	17 13				
			M_E	18 14				
			M_Z	19 04	17			
			F	20 03 --				
1716	16	Ir	iP	1 05 18			4265	condensation Azi.: SE After shock of No. 1715.
			iPP	06 53				
			i	08 07				
			S_{EN}	11 12				
			eL_{EZ}	16.8				
			M_Z	19 31				
			M_N	34				
			F	2 06 --				
1717		Ir	eP_Z	14 07 53			2055	
			eP_{EN}	54				
			eS_E	11 17				
			eL_E	12 49				
			M_E	14 52				
			M_Z	16 43	12			
			M_N	53	11			
			F	15 04 --				
1718		Ir	eP	20 17 21			2035	After shock of No. 1717.
			eS_E	20 42				
			eL_E	22 16				
			M_E	26 04	13			
			M_N	51	10			
			M_Z	27 15	11			
			F	21 08 --				
1719	19	IIIr	iP	5 17 24			4975	condensation Azi.: 122.3° Epc.: 8°S, 156°E (U.S.C.G.S.)
			PP	18 58				
			iS_Z	24 00				
			iS_{EN}	08				
			$iScS_E$	27 22				
			L_E	30 51				
			M_{1E}	34 07	15	58		M-phase faint on N-comp. due to very large amplitudes.
			M_{2E}	38 14	19	119		
			M_{1Z}	41 22		49mm.		

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1719 (cont.)	19,IV		M_{2Z}	5 43 35	19	89mm.		
			M_{3E}	45 08	18	113		
			F overlapped by next quake.					
1720		IIr	eP_{NZ}	9 11 03			3980	E-component lost.
			iPP_Z	12 34				
			iS_N	16 40				
			i_Z	47				
			L_N	21 07				
			M_Z	27 38	20	56mm.		
			F	11 22 --				
1721	20		eL_E	10 59 29				
			M_Z	11 01 44				
1722			$(e)_{EZ}$	18 11 31				Small, preliminaries uncertain.
			e_{EN}	18 08				
			$eL?_E$	27 25				
			M	32.7				
			F	19 02 --				
1723	21		eL_{EN}	1 55.1				
			M_E	57 47				
			M	2 00.3				
1724			eL_N	2 42 46				
			M_N	45.7				
1725	23	Ir	iP	23 22 35			4990?	dilatation
			PP_{EN}	24 23				Azi.: 59.9°
			iS	29 12				Epo.: 46.5°N, 179°E
			SS_{EN}	32 32				Main portion not
			L_E	35 44				prominent. May be
			M_{1N}	38 17	16			deeper than usual.
			M_E	40 25	14			
			M_{2N}	45 12	13			
			M_Z	47 39	14			
	24		F	1 04 --				
1726	25		$(e)_Z$	4 42 42				Small & indefinite.
			e_E	47 55				
			M_E	55 02				
			M_Z	57 48	14			
			M_N	58 08				
			F	5 40 --				
1727	26		eP	7 23 05			4155	Very small.
			eS_{EN}	28 52				
			F	45 --				
1728		Iu	eP	8 53 09			6010	
			S_N	9 00 44				
			L	10 51				
			M_E	13 24	19			
			M_Z	14 06	20			
			M_N	22	20			
			F	10 02 --				
1729			M	11 17 45				Very small.

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1730	27,IV	IIIv	eP	0 02 40			1790	Felt at Shueh-chiang, Yunnan, intensity R.F.VIII and at Chungching and Chengtu, intensity R.F. VI. (Press report)
			i	48				
			iS_N	05 38				
			i_E	51				
			L_{EZ}	06.8				
			M_Z	11 ca.				
			F overlapped by next quake.					
1731		I	eL	1 32.4				M_{EN} large & faint.
			M_{EN}	33.3				
1732		Iv	eP?	1 37 01			1865	In coda of previous After shock of No. 1730.
			eS_N	40 07				
			eS_{EZ}	08				
			M_E	41 44	9	16		
			M_N	42 28		39mm.		
			M_Z	43 16	10	23mm.		
			F	2 40 --				
1733		Iv	eP	3 40 32			1890	After shock of No. 1730.
			eS_{EZ}	43 40				
			L_{EN}	44 48				
			M_E	45 45	11	9		
			M_N	55	10	10		
			M_Z	46 45	11	13mm.		
			F	4 19 --				
1734			M_{EN}	4 30.2				Small
1735		I	e_E	4 57 00				
			e_N	21				
			eL_{EN}	58.4				
			M_E	59 05				
			M_N	15				
			F	5 07 --				
1736		Iv	eP_{EZ}	5 46 10			1865	After shock of No. 1730.
			eS_N	49 15				
			eL	50.7				
			M_E	51 26	11	7		
			M_N	33	10	8		
			M_Z	52 22				
			F	6 06 --				
1737			eL_{EN}	7 29.9				Long trace of surface waves.
1738			e_E	11 32 43				Small, Probably local.
			e_N	47				
			M_E	33 25				
			M_N	51				
1739			$(e)_E$	12 57 22				Trace
1740	28	Iv	e_{EN}	1 32 35			1890	Initial uncertain.
			eS_E	35 43				After shock of No. 1730.
			eL	17.0				
			M_E	54				
			M_N	55	9			
			M_Z	18 48				
			F	46 --				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1741	28,IV		eL_E	1 57 24				
			M_Z	59 12				
			M_E	13				
			F	2 07 --				
1742		Iu	P_{EZ}	5 49 33			7010	dilatation
			P_N	35				
			PcP_Z	50 11				
			S_N	58 03				
			iS_E	12				
			iE_N	59 28				
			SS_E	6 02 09				
			i_N	05 25				
			i_E	36				
			L	11.1				
			M_N	13 14	20			
			M_E	15 33	18			
			M_Z	47	19			
			F	8 00 --				
1743		Ir	iP	13 44 11			4880	dilatation
			iS_{EN}	50 41				Azi.: SE
			SS_{EN}	53 43				
			eL_E	58 06				
			M_E	14 03 07	9	5		
			M_N	09	8			
			F	58 --				
1744		Ir	eP	16 27 42			4245	dilatation
			PP	29 15				
			eS_E	33 35				
			iS_N	39				
			eL_N	39 17				
			M	42.6				
			F	17 25 --				
1745		IIv	iP	18 31 01			1800	dilatation
			eS_E	34 00				Azi.: SW
			S_{NZ}	08				After shock of
			L_{NZ}	35 19				No. 1730.
			M_N	36 20	9	16		M-phase lost on
			M_Z	37 57	8	12mm.		E-component.
			F	19 27 --				
1746	29	I	e_E	16 52 02			2310	
			e_N	26				
			$eS?_E$	55 46				
			i_N	56 09				
			M_N	59 03	16			
			M_E	17 01 05	15			
			F	46 --				
1747			eP_N	20 36 38				Very small shock.
			e_E	46 54				
			F	21 15 --				

S. P. Lee, Superintendent
(Absent, in Germany)

Pan Chia Lin,
Assistant in Charge,

May 10, 1936

Pei-An-Ho, W. of Peiping, China
φ: 40°3'55" N, λ: 116°5'44" E
h: 115m; Foundation: Granite

THE CHIUFENG SEISMIC STATION
of the
GEOLOGICAL SURVEY OF CHINA

Instruments: 200 kg. horiz., 80 kg. vert. Weichert; Galitzin-Wilip.

Weichert		V	T_0	ξ	γ/T_0^2		Galitzin-Wilip		T_1	T	μ^2	$kA/\pi l$
	Z	---	---	---	---	May 17,'36		Z	11.02	10.74	.032	496
	N	108.4	5.0	3.2	.009	May. 20,'36		N	11.40	11.67	.018	726
May 19	E	101.3	5.0	3.0	.015	Oct. 24,'35		E	11.20	10.26	.026	754

May, 1936 — 20

No.	Date	Char.	Phase	G. M. T. h m s	T_p s	A μ	Δ km	Remark
1748	1,V		M_E	0 23 09	9			
			M_N	50	9			
1749			e_{EN}	12 14 23				Small, in micro-seisms.
			i_{EN}	19 24				
			F	34 ---				
1750	2		$(e)_E$	20 36 44				Very heavy micro. may not be earth-quake.
			$(e)_N$	49				
1751	4	Iv	(e)	4 11.8				
			eL	13.1				
			M	14.2				
			F	43 ---				
1752		Ir	e_{EN}	8 15 48			2420	
			$e(S)_E$	19 41				
			eL	21.9				
			M	24.3	16			
			F	54 ---				
1753			i_E	18 39 26				
			i_N	28				
			M_N	42 39				
1754	5		eL_{EN}	4 36 18				
			M_{EN}	47.1				
1755		Iu	eP	19 52 23			5890	
			S_{EN}	59 51				
			eS_Z	55				
			i_E	20 00 21				
			L	08 49				
			M_N	14 57	16			
			M_{1Z}	15 00	17			
			M_{2Z}	17 47	16			
			F	21 22 ---				
1756	6		$(e)_{EN}$	6 09 01				Small local shock.
1757	7		M_N	2 15 39				
1758	8	0	e_{EZ}	1 05 44				
			e_N	10 21				
			e_E	32				
			M	17.7	15			
			F	44 ---				
1759		Ir	iP_{NZ}	9 19 08			4390	Deep focus type.
			i_{NZ}	20 58				
			iS_{EN}	25 10	9			

No.	Date	Char.	Phase	G.M.T.	Tp	Amu	km.	Remark
1759	8,V		iS_Z	9 25 17				
			F	10 29 --				
1760		IIIv	ePN_Z	15 27 57			1880	Strong tremors felt at Chengtu, Szechuan Province. (Press report)
			S_{EN}	31 04				
			S_Z	07				
			iL	32 22				
			M_E	33 19	9	23		
			M_N	20	10	27		
			M_Z	34 17	9	13		
			F	16 32 --				
1761			e_{EN}	17 39 24				Trace
			F	18 12 --				
1762	9		e_{EN}	21 54 45				Small local shock.
			M_{EN}	55 39				
1763	10		e_{EN}	0 44 29				Small local shock.
			e_Z	35				
			M_N	51				
1764		Ir	eP	6 01 09			2380	
			i_{NZ}	02 01				
			eS_E	04 59				
			eS_N	05 06				
			iL_{EN}	07 51				
			M	09.8	11			
			F	54 --				
1765	11	Iu	P	17 37 05			6300	condensation Azi.: SE
			PP_{EZ}	39 02				
			S_N	44 56				
			S_{EZ}	58				In minute eclipse.
			$(SS)_{NZ}$	48 34				
			i_N	50 39				
			L_{NZ}	54.4				
			M_{1E}	56 06	21			
			M_{1N}	57 25	22	15		
			M_{2E}	59 29	21			
			M_Z	59	21			
			M_{2N}	18 02 51	18	11		
			F	21 15 --				
1766	13	Ir	eP_{EN}	11 12 59				Z-component lost.
			M	19 31	13			
			F	52 --				
1767	14		$e(M)_{EN}$	12 12.8				Very small.
1768	16	IIv	eP_{EN}	6 43 51			1890	In minute eclipse. Z-component lost.
			S_E	51 59				
			L_{EN}	53 16				
			M_E	54 13	9	9		
			M_N	13	10	14		
			F overlapped by next quake.					
1769		IIIv	iP_{EN}	7 09 20			1655	Azi.: 222.5° Z-component lost. Strong tremors felt at Chungching
			S_N	12 05				
			iS_E	09				
			L_{EN}	13.3				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1769	16,V		M_E	7 14 42	6	10		Szechuan. (Press report)
			M_N	45	7	11		L,M, from Wiechert.
			F	9 45 --				
1770			M_{EN}	9 56.7				
1771			M_{EN}	13 24 58				Small
1772			eL$_{EN}$	22 54.7				Small
			M_{EN}	55.5				
1773	17		eL?$_{EN}$	10 45 04				Trace of long waves.
1774			e$_N$	15 20 32				Small
			M_N	23 41				
			M_E	24 50				
1775			M_{EN}	22 32 00				Small
1776	18		e	10 47.2				Small
1777			P_{NZ}	20 27 03			4810	condensation
			S_{EN}	33 29				Trace
			SS?$_E$	36 24				
			F overlapped by next quake.					
1778			M_E	20 51.0				Small
1779	19	I	eL?$_{EN}$	0 14 36				
			M_E	15 27	10			
			M_N	28	9			
			F	29 --				
1780		Iv	e$_E$	10 27 56				Uncertain
			i$_{EN}$	29 25				
			M_{EN}	30 09				
			M_Z	31 08	9			
			F	43 --				
1781		Iv	eP$_{EN}$	16 32 54			1455	P,S, small
			eP$_Z$	33 01				
			S_{NZ}	35 20				
			i$_N$	28	4			
			i$_{EZ}$	35	4			
			L_{NZ}	36 27				
			F	53 --				
1782		Iu	iP	20 58 50			5345	condensation
			S_E	21 05 47				Azi.: SE
			S_{NZ}	49				Main portion lacking.
			i(ScS)	08 30				
			F overlapped by next quake.					
1783		Iu	iP$_{NZ}$	21 25 33			5065	condensation
			S_N	32 14				
			M_E	46 29	15	13		
			M_Z	49 11	14	14		
			M_N	13	13	11		
			F overlapped by next quake.					
1784	19	Iu	iP$_{NZ}$	21 38 30				condensation

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1784	19,V	Iu	P_{NZ}	21 59 36	15	17		After shock of No. 1783.
			M_N	22 01 34	14	15		
			M_Z	37	14	19		Initial before main portion of the previous shock.
			F	23 12 --				
1785	20	Ir	e(P)$_{NZ}$	0 22 00			2400	Initial uncertain.
			S?$_N$	25 52				
			i$_N$	27 41	17			Conspicuous train.
			F	1 05 --				
1786		II	i$_N$	3 31 40	18	25		Initial lost.
			M_N	39 21	19	31		
			F	7 13 --				
1787	21	Iu	P	2 59 45			6600	condensation, small on horizontals.
			eS_{EN}	3 07 53				
			eS_Z	08 02				
			M_N	23 05	18			
			F	4 17 --				
1788	22	Ir	P_Z	0 36 03			3600	condensation
			eS_{NZ}	41 18				
			(M)$_N$	48 30	9			
			F	1 38 --				
1789		I	e	6 49 16				Initial small.
			M	54.7				
			F	7 21 --				
1790		Iu	P	23 33 07			8755	condensation, small on horizontals.
			S_E	43 08				
			iS_N	11				
	23		F	1 10 --				
1791			eL	19 35.2				Trace of surface waves.
			M_N	41 50	16			
			F	20 06 --				
1792	25	Ir	eP	3 11 49			4945	
			S_E	18 23				
			i$_Z$	52				
			i$_N$	19 08				
			L	25.8				
			M_{1E}	30 32	20			
			M_N	31 10	19	11		
			M_Z	55	19			
			M_{2E}	33 08	17			
			F	4 53 --				
1793			M_{EN}	11 04.2				Small
1794		Ou	eP	13 38 01			5865	
			eS?$_N$	45 28				
			M_E	56 58	19			
			M_Z	58 10	18			
			M_N	15	19			
			F	14 25 --				
1795	25,V		(e)$_{EZ}$	19 47 01				Small shock.
			i$_N$	48 29				
			i$_Z$	34				
			M	49.5				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mm}	km.	Remark
1796	26,V		M	17 52.7				Small
1797	27	IIIr	iP	6 25 18			3135	condensation
			i	28 58				Azi.: 76.8°
			iS_E	30 04				In region of
			iS_N	11				40.5°N, 153.4°E
			iZ	26				L,M-phases large
			M_Z	37.3	14			& faint on all
			F	10 11 --				Galitzin component.
1798	28	Ir	eP	12 32 43			2080	
			iN	52				
			eS_E	36 08				
			iS_Z	16				
			eL_E	37 52				
			M	40.7				
			F	13 31 --				
1799		Iu	eP	19 08 59			9835?	
			i_{EN}	18 35				
			iZ	54				
			SS_E	25 22				
			SS_N	24				
			eL_N	39 49				
			MM_N	51 31	21			
			M_Z	45	21			
			M_{1E}	52 03	22			
			M_{2E}	54 11	21			
			F	21 58 --				
1800	30	Or	eZ	7 14 00			2880	Initial very small.
			eP_{EN}	07				
			eS_E	18 29				
			eL_N	21 01				
			M	24.8	10			
			F	48 --				

S. P. Lee, Superintendent
(Absent, in Germany)

Pan Chia Lin,
Assistant in Charge.

June 8, 1936

Pei-An-Ho, W. of Peiping, China
φ: 40°3'55" N, λ: 116°5'44" E
h: 115m; Foundation: Granite

THE CHIUFENG SEISMIC STATION
of the
GEOLOGICAL SURVEY OF CHINA

Instruments: 200 kg. horiz., 80 kg. vert. Weichert; Galitzin-Wilip.

Weichert		V	T₀	ε	γ/T₀²
	Z	--	--	--	--
	N	105.0	5.1	3.5	.009
June 18	E	102.7	5.0	3.8	.016

Galitzin-Wilip		T₁	T	μ²	kA/πl
May 17, '36	Z	11.02	10.74	.032	496
May 20, '36	N	11.40	11.67	.018	726
Oct. 24, '35	E	11.20	10.26	-.026	754

No.	Date	Char.	Phase	G. M. T. h m s	T_P s	A μ	Δ km	Remark
1801	1,VI	Ou	eP	11 33 37			8020	
			S_{EN}	43 00				
			$SS?_{EN}$	47 21				
			F	12 11 --				
1802	2	O	eP_N	13 31 13				
			M	39.3				
			F	14 07 --				
1803	3		e(P)	2 59 58			2265	Subsequent phases lost during change of paper.
			iS_E	3 03 39				
			iS_{NZ}	41				
			F	4 31 --				
1804		Ou	e	9 27 39			9200	Epc.: 40°N, 126°W (U.S.C.G.S.)
			S_N	38 02				
			eL_N	52 47				
			M_N	10 01 13	17			
			F overlapped by next quake.					
1805		Or	eP	10 28 34			2610	
			eS	32 42				
			M_Z	38 16	14			
			F	11 17 --				
1806	4	Ir	eP	13 13 05			2365	Initial small & indefinite.
			$S?_{EN}$	16 54				
			M_N	22 07	16			
			M_{EZ}	24.7	13			
			F	14 14 --				
1807			M_N	18 34 58				Small
1808	5	O	iP	14 44 53				condensation Deep focus type. Azi.: SE
			i	45 53				
			i	47 05				
			i(PcS)	49 53				
			i	52 00				
			i	54 39				
			F	15 57 --				
1809	6		$(e)_{EN}$	7 14.4				Time uncertain due to trouble of time marks.
			M	15.3				
			F	26 --				
1810	7	Ou	(e)	4 47.1				Initial uncertain.
			M_N	5 16 03	16			
			F	45 --				
1811	9	Or	eE	0 13 13				
			M_{EZ}	20.5	12			
			F	38 --				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1812	9,VI		M_N	2 18 41				
			F	37 --				
1813		Iu	iP	16 44 29			4745	condensation
			S_{EZ}	50 51				Azi.: 198.8°
			S_N	56				Northeast coast
			eL?	57.9				of Sumatra.
			M_E	17 04 50	15	14		
			M_N	06 54	14	11		
			M_Z	56	15	16		
			F	18 13 --				
1814	10	Ou	(e)N	3 24 42				Initial uncertain
			(e)E	26 34				
			F overlapped by next quake.					
1815		Iu	$(e)_{EZ}$	3 37.4				Initial uncertain
			iS_{EN}	44 02				
			i_N	47 41				
			L_{EN}	51.6				
			M_E	56 14	11			
			M_N	57 43	15	8		
			M_Z	58 32	13			
			F	4 58 --				
1816		Iu	iP	8 32 31			5890	dilatation
			pP	33 08				Deep focus.
			iS_N	39 49				Depth: 0.03 R.
			iS_E	55				Azi.: 139.6°
			sS_{EZ}	40 55				Epc.: 4.5°S, 147.4° E
			iSS_E	43 21				
			L_E	47 33				Bismarck Archi-
			M_N	49 51	19	27		pelago.
			M_Z	50 39	16	18		
			M_E	53	16	16		
			F	12 05 --				
1817		[illegible]	eEN	17 26 11				May not be initial.
			i_N	29 48				Z-component lost.
			M_E	38 21	11			
			M_N	39 50	15			
			F	18 12 --				
1818			$(e)_E$	22 26 31				Small & indefinite.
			M_N	32 56				
			F	44 --				
1819	11	O	eEN	9 58 38				May not be initial.
			eL?N	10 08 21				
			M_N	12 12	15			
			M_Z	13 08				
			M_E	18 07	11			
			F	57 --				
1820		O	$(e)_E$	13 09 04				
			eL_{NZ}	18.0ca.				
			M_{NZ}	24.4				
			F	52 --				
1821	12		$e(M)_Z$	5 20 21				Small

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1822	13,VI		eP	8 25 08			45.45	Trace
			eS_E	30 55				
			eS_N	31 01				
			F	43 --				
1823			eP	21 42 20				Trace
			F	22 07 --				
1824	14	Ir	eP	2 35 47				Time uncertain due to failure of time marks.
			eN	40 13				
			eL	45.0				
			M	50.9	14			
			F	3 58 --				
1825		Ou	P_Z	17 11 44			6790	condensation
			e_{EN}	44				
			iS	20 02				
			M_{EN}	37.2	17			
			F	18 23 --				
1826	16	Ou	e_E	0 46 03			9180	Z-component lost.
			eP_{EN}	11				
			eS_N	56 32				
			S_E	33				
			eL_{EN}	1 13 29				
			M_E	16 44	20			
			M_N	17 37	21			
			F	2 33 --				
1827	18	Ir	eP_{EN}	15 01 51			2845	Z-component lost.
			eS_E	06 17				
			M_{1EN}	10 39				
			M_{2EN}	12.5	11			
			F	46 --				
1828	19	Ir	eP_E	16 39 30			2480	Z-component lost.
			eP_N	33				
			S_E	43 28				
			S_N	31				
			M_E	47 31	8	4		
			M_N	31	10	7		
			$iScS_N$	50 33	10	5		
			F	17 56 --				
1829	21	0	$(e)_{EN}$	13 26 18				Initial small & indefinite.
			e_E	29 26				
			M	31 39				
			F	55 --				
1830			$e(P)_{EN}$	23 47 36				Small, may not be initial. Z-comp. lost.
			F	0 13 --				
1831	22		M_N	10 36.0				Z-component lost.
			F	50 --				
1832	23		M_E	15 13 58				Very small.
1833	25	Iv	iP	16 55 47			1955	dilatation
			iS_{EN}	59 01				Deep focus type.
			iS_Z	03				Azi.: SE

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1833 (cont.)	25,VI		i_N	16 59 05	7	7		
			i_E	07	5	5		
			F	17 35 --				
1834	27	Ir	P_{EZ}	21 18 33			2645	condensation
			S_E	22 44				N-component lost.
			eL_{EZ}	25.3				
			M_E	27 41				
			M_Z	28 14	14			
			F	22 30 --				
1835	28	Ir	iP_{EZ}	8 15 19			2635	condensation
			iPP_{EZ}	43				
			S	19 30				
			$L?_{EZ}$	22 17				
			M_Z	26 00	14	11		
			M_E	05	15	10		
			F	10 30 --				
1836			e_{EZ}	11 58 51				Small
			M_E	12 10 31				
			F	40 --				
1837		0	e_{EZ}	17 27 28				
			M_{EZ}	38.1	14			
			F	18 30 --				
1838	29	Ir	iP_{EZ}	14 36 47			3665	dilatation
			eP_N	47				Slifhtly deep?
			i_{EZ}	37 37				
			PPP_{EZ}	38 06				
			i_{EZ}	39 06				
			iS_E	42 06				
			iS_{NZ}	07				
			i_N	46 46	10	7		
			M_{EZ}	48.9	7			
			F	16 09 --				
1839	30	IIIr	P	15 13 13				dilatation
			iP	16			3345	dilatation
			iPP_N	14 26				Azi.: 53.4°
			iS_{EN}	18 13				South end of
			i_{EN}	28				Kamtchatka Penin-
			L_{EN}	22.2				sula.
			M_E	25 04	22	874		L, M-phases
			M_N	26 34	17	864		large & faint on
			F overlapped by next quake.					Galitzin.
1840		Iu	eP_{EZ}	19 34 17			5010	
			S_N	40 55				
			eSS_N	43 48				
			ScS_E	44 17				
			M_E	53 18	14	9		
			M_Z	54 26	13			
			F	21 00 --				

S. P. Lee, Superintendent
(Absent, in Germany)

Pan Chia Lin,
Assistant in Charge,

July 7, 1936

The Chiufeng Seismic Station of the Geological Survey of China beg to acknowledge with thanks the receipt of the following bulletins and publications, from February to June 1936.

Zürich	Schweizerisches Erdbebenbulletin: No. 67, 1935, & No. 68-72, 1936.
	Dr. E. Wanner: Jahresbericht 1934 des Schweizerichen Erdbebendienstes.
J.S.A.	Prel. Bulletin: No. 32-43, 1935, & No. 1-2, 1936.
Nanking	Prel. Bulletin: Jan.-May, 1936, & Quarterly Seis. Bulletin: Vol. 4, No. 2, 3, Oct.-Dec., 1935, Jan.-March, 1936.
Copenhagen	Seis. Bulletin: Oct.-Dec., 1933, Jan.-June, 1934.
Ivigtut	Seis. Bulletin: Jan.-Dec., 1932.
Cartuja	Seis. Bulletin: June-Dec., 1935.
	Resumen del Boletin Macro Sismico No. 1.
	Resumen del Boletin Meteorológico de 1933-1934.
Wellington	Prel. Earthquake report for Nov.-Dec., 1935, & Jan.-Mar. 1936, Seis. Reports for Jan.-June, 1934, & Bulletin No. 105.
	R. C. Hayes: Seismic Waves & Crustal Structure in the New Zealand Region.
	R. C. Hayes: A new phase in Deep focus Earthquake.
Uccle	Bulletin Seismique: August-December, 1935.
Riverview	Seis. Bulletin: Dec., 1935, & Jan.-April, 1936.
Manila	Seis. Bulletin: Dec., 1935, & Jan.-April, 1936.
	Special Bulletin: Jan.-May, 1936.
Tananarive	Bulletin Seismique: May-Sept, 1935.
Hamburg	Seis. Bulletin: Oct.-Dec., 1935.
Wien	Seismiche Aufzeichnungen: April-Dec.,1935.
Graz	Seismiche Aufzeichnungen: July-Dec., 1935, & Jan.-Mar., 1936.
Zi-Ka-Wei	Bulletin Seismique: No. 17-23, 1935, & No. 1-4, 1936.
	Prel. Bulletin: 29 May to 17 June, 1936.
	Observatoire de Zi-Ka-Wei, Revue Mensuelle.
Taihoku	Prel. Bulletin: Jan.-April, 1936.
Kew	Seis. Bulletin: Dec., 1935, Jan.-April, 1936.
Pasadena	Seis. Bulletin: Dec., 1935, Jan.-March, 1936.
Hongkong	Monthly Seis. Bulletin: Jan.-April, 1936.
	Meteorological report: Jan.-March, 1936.
St. Louis	J.B. Macelwane, S.J.: Problems and Progress on the Geologico-Seismological Frontier.
La Plata	Boletin Sismológico: Nov.-Dec., 1935, Jan.-Mar., 1936.
Melbourne	Seis. Bulletin: Oct.-Dec., 1935, Jan.-March, 1936.
Ksara	Bulletin sèismique: Dec., 1935, Jan.-April, 1936.
Strasbourg	Seis. Bulletin: Nov.-Dec., 1935, Jan.-Feb., 1936.
Barcelona	Seis. Bulletin: No. 169-172, 1935.
U.S.C.G.S.	Seis. Report: Oct.-Dec., 1934.
Ottawa	Seis. Bulletin: Dec., 1935, Jan.-April, 1936.
	Ernest A. Hodgson: The Timiskaming Earthquake of Nov., 1 1935. The Location of the Epicentre and Determination of Focal Depth.
Ebro	Boletin del Observatorio del Ebro: Vol. XXV 1934.
	Boletin Resumen: 1910-1934 Vol. XXV.
Toledo	Datos sismicos de la Peninsula Ibérica 1er et 3^{me} Trimestre de 1935.
	A. Rey Pastor: Sismicidad de las Regiones Litorales Esponolas del Mediterraneo, I. Region Geografica Catatana.
	Sismilità del Garda Studio del terremoto 19 Febraio 1932-X.
Trieste	P. Caloi: La determinazione degli epicentri di terremoti lontini coi dati di una O più Stazioni.
	P. Caloi: A proposito delle onde SL ed SM Nuovi esempi e Considerazioni.
	P. Caloi: Studio microseismico del terremoto delle prealpi Carniche del 18' giugno 1934.

Trieste	P. Caloi: Calcolo delle profondita ipocentrali in funzione della distanza Epicentrale e dell' Angolo D'emergenza delle onde P.
	Bollettino sismico: Mar.-Dec., 1931, 1932, 1933, 1934.
Batavia	Seis. Bulletin: Oct.-Dec., 1935.
Hawaii	The Volcano Letter: July-Dec., 1935.
Tokyo Imperial University	Japanese Journal of Astronomy & Geophysics. Transactions & Abstructs: Vol. XIII, No. 2, 1936.
	A. Imamura: On Land Deformations accompanied by the Nosiro Earthquakes of 1694-6 1704.
	58. Later Movements of the North-West Osaka Block.
	Takeo Matuzawa: Seismometrische Untersuchungen des Erdbebens vom 2. März 1933.
	II. Analyse der in Californien beobachteten Obelflächenwellen.
	Takeo Matuzawa: Seismometrische Untersuchungen des Erdbebens vom 2. März 1933.
	III. Erdbebentätigkeit for und nach dem Grossbeben. Allgemeines über Nachbeben.
Osaka	Seis. Bulletin: Nov.-Dec., 1935.
	Seis. Bulletin: July to Sept., 1934. (Printed)
Zagreb	Seis. Bulletin: April-June, 1935.
Jena	H. Martin: Einschwingvorgänge und ihre Bedeutung bei der Aufzeichnung von Stossähnlichen Erschüttarungen.
	H. Rehm: Die Erdbebentätigkeit der Weltmeere sowie ihre Beziehungen zur Tektonik.
	Hans Schmoking: Ein Beitrag zur Entwicklung der Präzisions- pendeluhren.
	Gerhard Schmerwitz: Beitrag zur Theorie und Konstruktion von statischen Schweremessern.
	Die Wirkungsweise eines Klinographen bei der Aufzeichnung.
Tyosen	Annual Report of the Weather Bureau of Tyosen for the year 1934.
	Prel. Seis. Report: No. 13-15, 1935, No. 1-3, 1936.
Instituto Geográfico y Catastral	Servicio Sismológico: Jan.-June, 1935.
Apia	Seis. Bulletin: Jan.-March, 1936.
Florissant	Seis. Bulletin: Aug.-Nov., 1935.
Lemberg	Seismiche Aufzeichnungen: April-Sept., 1935.
Georgetown	Seismological Despatches: July & Oct.-Dec., 1935.
	F. W. Sohon, S. J.: A first approxmation for Deep-focus Seismograms.
	F. W. Sohon, S. J.: The Electrodynamic Ratio of the Galitzin Seismometer.
Stuttgart	Wilhelm Hiller: Die Erdbeben am Untersee (Bodensee) vom 31. Januar. 1935.
Hukuoka	Seis. Bulletin: Jan.-Dec., 1935 (Printed)
La Paz	Seis. Bulletin: No. 18-38, 1935.
Firenze	Bollettino Sismologico: Oct.-Dec., 1931, 1933, July-Dec., 1934, Jan.-March, 1935.
	Bollettino Meteo.: July-Dec., 1934, Jan.-March, 1935.
Santiago	Boletin del Servicio Sismologico de la Universidad de Chile, No. XXV, 1933-1934.

Pei-An-Ho, W. of Peiping, China
φ: 40°3'55" N, λ: 116°5'44" E
h: 115m; Foundation: Granite

THE CHIUFENG SEISMIC STATION
of the
GEOLOGICAL SURVEY OF CHINA

Instruments: 200 kg. horiz., 80 kg. vert. Weichert; Galitzin-Wilip.

Weichert	V	T₀	ε	γ/T₀²
Z	---	---	---	---
N	~~105.9~~	~~5.1~~	~~3.4~~	~~.008~~
E	~~100.4~~	~~5.0~~	~~3.7~~	~~.016~~

	Galitzin-Wilip	T₁	T	μ²	kA/πl
May 17, '36	Z	11.02	10.74	.032	496
May 20, '36	N	11.30	11.67	.018	726
Oct. 24, '35	E	11.20	10.26	-.026	754

July, 1936 — 29

No.	Date	Char.	Phase	G. M. T. h m s	Tp s	A μ	Δ km	Remark
1841	1,VII		eEN	8 46 21				Local shock.
			eN	53				
			F	9 02 --				
1842		0	e(P)EN	16 58 36				May not be initial.
			MEN	17 02.6				
			MZ	03 51				
			F	19 --				
1843	2		(e)EN	16 01 26				Trace
1844	3	Iu	S?	3 17 58				Initial lost during change of paper.
			eL	27.6				
			MZ	32 51	25			
			MN	33 47	19			
			F	5 54 --				
1845		I	eEZ	21 07 11				Local shock.
			eE	26				
			iZ	08 08				
			M	09.8	9			
			F	40 --				
1846	4	Ir	iP	9 04 27			39.6°	condensation
			pPEN	05 11				Azi.: SW
			sPNZ	34				Deep focus.
			iSEN	10 16				Depth: 0.03 R.
			isSE	11 35				
			iScSE	14 17				
			F	10 08 --				
1847	5	Or	iPEZ	14 38 50			2835	condensation
			ePN	50				
			eSEN	43 15				
			eL	46.1				
			M	49.6	17			
			F overlapped by next quake.					
1848			(e)EZ	15 33 01			3000	Small, uncertain.
			eSN	37 38				
			MN	44 30				
			F	16 0[illegible] --				
1849		Or	ePEZ	17 09 34			2845	After shock of No. 1847.
			eSEN	14 00				
			M	20.8	14			
			F	50 --				
1850		IIr	iP	19 02 06			35.6°	condensation
			ipPEZ	34				Deep focus.
			iPPN	03 29				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1850 (cont.)	5	VII	iEN	19 04 14				Depth: 0.02 R.
			iS_N	07 35				Azi.: 160.7°
			iS_E	44	8	18		Epc.: 6°N, 127°E.
			isS_E	08 29				
			iSS_N	10 06				
			SS_E	08				
			$iScS_N$	12 14				
			$iScS_E$	14				
			F	22 48 --				
1851	6	Or	P_{NZ}	2 02 33			37.1°	condensation
			eP_E	33				Deep focus.
			pP_N	51				Depth: 0.015 R.
			pP_{EZ}	55				
			S_{EN}	08 14				
			sS_N	53				
			sS_E	09 00				
			ScS_E	12 46				
			F	3 10 --				
1852		Or	eP_{NZ}	18 28 58			4545	
			eP_E	29 08				
			eS_{EN}	35 08				
			iE	38 29				
			eL_{EN}	41.4				
			M_N	44 51	10			
			F	19 30 --				
1853	7		eL_{EN}	8 05.5				Trace of surface waves.
1854			(e)EN	23 30.1				Small
			M_N	47 04				
			F overlapped by next quake.					
1855	8		eP_{EZ}	23 49 04				Small
			M_N	0 01 31	15			
			F	18 --				
1856			eP	19 52 27			2890	Small
			eS_N	56 56				
			eS_E	57 04				
			M_{EZ}	20 02.9	18			
			M_N	03 54	14			
			F	39 --				
1857	9		e_{EZ}	17 02 22			435	Near shock.
			e_N	54				
			eS_E	03 07				
			M_N	36				
			(M)EZ	49				
			F	? --				
1858	10	Or	iP	19 39 34			3890	dilatation
			iS_{EN}	43 03				Deep focus type.
			$iScS_E$	49 48				Azi.: SE
			F	20 10 --				
1859	11		eL_N	18 18 14				Trace of surface waves.
			M_N	24 05				
			F	42 --				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1860	11,VII	Iu	iP_{EZ}	2 55 04			9945	condensation
			eP_N	04				Surface waves
			iE_Z	30				very shallow.
			SKS_{EN}	3 05 33				
			S	06 00				
			F	4 42 --				
1861			eEN	5 59 11				Uncertain, proba-
			iEN	24				biy local.
			M	6 00.2				
1862	12		M_{EN}	20 39.9				Small
1863	13	IIIu	P'	11 32 17			165°	condensation
			iZ	33				Epc.: 24°S, 70°W.
			iP'_{2Z}	33 09				(U.S.C.G.S.)
			iP'_{2N}	25				
			iPP	37 03				
			$iSKKS_N$	43 58				
			$iSKSP_{EN}$	47 33				
			iSS_{NZ}	57 25				
			iSS_E	28				
			$iSSS_N$	12 03 44				
			L	30.8				
			M_N	37 40	(33)	51mm.		
			M_{1Z}	39 49	23	68		
			M_E	41 37	22	58		
			M_{2Z}	44 50	19	67		
			F	16 26 --				
1864	14		eP_{EZ}	9 58 52				Trace
			eM_{EN}	10 10.0				
			F	29 --				
1865	15	Ir	eP_{EZ}	1 59 20			2855	
			iS	2 03 47				
			iN	04 31				
			eL	06.3				
			M_N	08 48	13			
			M_{EZ}	09.3	13			
			F	52 --				
1866		Ir	eP_{NZ}	11 55 22			2465	E-component lost.
			eS_N	59 19				
			M_{NZ}	12 05.1	17			
			F	13 14 --				
1867	16	O	M_N	7 53 59				
1868		Ov	eP_N	11 36 13			1700	E-and Z-component lost
			eS	39 03				
			F	12 56 --				
1869	20	Ir	eP_{NZ}	23 58 18			2000	No time marks on E & Z-components.
			eS_N	0 01 36				
			iN	02 42				
			eL_N	03 09				
			M_Z	05 17	11			
			M_N	19	10	7		
			F	57 --				

M870 Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1870 21,VII	I	i_{EN}	15 14 48				Prominent surface waves without preliminaries.
		M_N	15 24	8			
		F	23 --				
1871 22		ePE_Z	6 31 39			9910	Trace
		S_N	42 34				
		F	8 07 --				
1872		$e(M)_N$	9 24 51				Trace of surface waves.
1873 23	Iu	iPE_Z	6 33 07			9845	condensation
		eP_N	08				Deep focus type.
		i_Z	19				
		iN_Z	59				
		eSKS	43 38				
		iS	59				
		ePS_Z	45 02				
		F overlapped by next quake.					
1874	Ir	ePE_Z	7 10 24			2640	
		S_E	14 33				
		S_N	34				
		M_N	20 05	14	6		
		M_E	13				
		M_Z	18	17			
		F overlapped by next quake.					
1875	O	M_{NZ}	7 59.3	14			Initial disturbed by previous.
1876 26		e	5 53 35				Trace
1877	Iu	P'_Z	7 56 55			164°	condensation
		eP'_{EN}	59				
		eP'_{2Z}	57 49				
		PP_N	8 01 30				
		PP_{EZ}	32				
		i_N	02 26				
		PPP_Z	05 17				
		PPP_N	28				
		$SKKS?_Z$	08 17				
		$SKSP?_N$	12 37				
		i_N	21 51				
		SS_E	22 00				
		eL	56.4				
		M_{1N}	9 02 01	25			
		M_{2N}	11 24	19			
		W_{2N}	24 19	18			
		W_{2Z}	28 25	19			
		F	10 40 --				
1878 27		eP_Z	9 19 13			9665	Trace
		iS_N	29 57				
		F	10 09 --				
1879	Ou	iP_{NZ}	20 09 59			5455	
		eP_E	59				
		eS_{EN}	17 03				
		F	21 05 --				
1880 28	Iu	iP	5 27 20			5525	condensation

No.	Date	Char.	Phase	G.M.T.	Tp	Amp.	km.	Remark
1880 (cont.)	28,VII		PP_Z	5 29 32				Azi.: SE
			S_N	34 [illegible]				
			ScS_N	37 12				
			SS_N	55				
			L	43.1				
			M_Z	48 02	18			
			M_N	08				
			F	7 29 --				
1881		Iu	iP_{NZ}	8 01 32			5580	condensation
			eP_E	32				
			S_N	08 43				
			ScS_N	11 29				
			L_{NZ}	17.5				
			M_N	21 24	16			
			M_Z	22 17	18			
			F	9 58 --				
1882	30		eL_N	0 14 27				Long trace of surface waves.
1883		Ou	iP_Z	14 16 13			9645	condensation
			eP_{EN}	13				
			$eSKS_E$	26 38				
			S_N	56				
			F	15 18 --				
1884			e_{EN}	18 20 01			2435	Small
			eS_N	23 55				
			F	50 --				
1885	31		M_N	11 33 21				
			F	58 --				
1886			e_N	18 08 --				Long trace of surface waves.
			F	19 33 --				

S. P. Lee, Superintendent
(Absent, in Germany)

Pan Chia Lin,
Assistant in Charge,

August 8, 1936

Pei-An-Ho, W. of Peiping, China
λ: 116° 5' 44"; φ: 40°3' 55"
h: 115m; Foundation: Granite

THE CHIUFENG SEISMIC STATION
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GEOLOGICAL SURVEY OF CHINA

Instruments: 200 kg. horiz., 80 kg. vert. Weichert; Galitzin-Wilip.

Weichert	V	T_o	ε	γ/T_o^2		Galitzin-Wilip	T_1	T	μ^2	kA/πl
Z	--	--	--	--	May 17,'36	Z	11.02	10.74	.032	496
N	104.8	5.1	3.4	.008	May 20,'36	N	11.30	11.67	.018	726
Aug. 17 E	100.4	5.0	3.7	.018	Oct. 24,'35	E	11.20	10.26	.026	754

No.	Date	Char.	Phase	G. M. T. h m s	T_p s	A μ	Δ km	Remark
1887	1,VIII	IIIv	eP_N	6 28(14)			1000	Time uncertain due to time mark lost.
			i_E	(26)				
			$(S)_{EN}$	29(55)				
			L_{EN}	30.3				
			M	31ca. large & faint.				
			F overlapped by next quake.					
1888	1	I	eE	7 02 07				
			i_E	23				
			F	51 --				
1889	3	Ov	iP	10 11 50			1780	condensation Deep focus type. Azi.: SW
			S_Z	14 47				
			F	43 --				
1890			$(M)_N$	16 49 17				Small
			F	58 --				
1891	4	Ir	eP	14 14 27			2455	
			iPP	46				
			iS_{NZ}	18 23				
			iS_E	25				
			SS_E	50				
			L_{NZ}	21.1				
			M_N	23 59	16	14		
			M_Z	24 03	17	15		
			F	15 41 --				
1892	7		eP_N	22 09 21				
			F	56 --				
1893	8		$(e)_Z$	4 23 46				Small & indefinite.
			e_{EN}	32 51				
			eL_N	47 35				
			F	5 42 --				
1894			eM_N	11 31 09				Trace
1895	9		eP	16 11 50			2435	
			S	15 44				
			SS_N	16 14				
			eL_{NZ}	18.5				
			M_N	21 23	16			
			M_Z	26	15			
			F	17 08 --				
1896			eM_N	22 38 53				Trace
1897	13	IIr	iP_{NZ}	20 09 11			3465	condensation
			eP_E	11				
			S_N	14 18				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1897 (cont.)	13,VIII		iS_Z	20 14 21				
			L_{EN}	18 21				
			M_{1N}	19 54	11	12		
			M_{1Z}	23 08	18	15		
			M_{2Z}	25 49	16	22		
			M_{2N}	26 01	15	24		
			F	22 51 --				
1898	14		e_{NZ}	4 01 00			4720	Very small.
			eS_N	07 21				
			F	51 --				
1899		Or	$(e)_N$	12 08 36				Trace
			e	12 17				
			eL	13 14				
			M_{NZ}	15.3	11			
			F	48 --				
1900			$(e)_{NZ}$	20 10 14				Small
			M_{NZ}	18.2	14			
			F	40 --				
1901		Ir	P	22 41 24			3445	condensation
			$(S)_N$	46 30				Azi.: SW
			S_E	38				
			M_N	55 03	14			
			M	56 07	12			
	15		F	0 40 --				
1902		Ou	P_Z	2 37 27			9335	condensation
			eP_{EN}	30				
			$eSKS_N$	47 46				
			S_{NZ}	48 05				
			F	3 58 --				
1903		Ou	eP_Z	5 38 57			9480	After shock of
			$eSKS_N$	49 19				No. 1902.
			S_N	33				
			F	6 43 --				
1904			$e(M)_N$	16 15 43				Small
1905	16	I	eL_{NZ}	8 24.6				A train of sur-
			M_Z	26 20	12			face waves.
			M_N	22	10			
			F	36 --				
1906	17	Iu	eZ	14 09 45			6365	uncertain
			eP_{NZ}	52				E-component lost.
			i_{NZ}	10 18				
			S_Z	17 47				
			S_N	57				
			$iScS_N$	19 39				
			M_{1N}	32 30	16			
			M_Z	33 03	19			
			M_{2N}	35 40	18			
			F	16 05 --				
1907			$(e)_N$	17 11 40				Small

No.	Date	Char.	Phase	G.M.T.	T_p	A_{max}	km.	Remark
1907 (cont.)	17,VIII		eM_N	17 24 35				
			F	50 --				
1908	1[illegible]		e_N	2 13 29				Small
			F	3 ? --				
1909			(e)	7 36.0				Small
			$e(M)_N$	17 00				
			F	9 01 --				
1910		Or	eP	13 18 35			2410	
			eS_N	22 28				
			S_E	37				
			L_E	25 00				
			M_E	27.2				
			F	55 --				
1911	19		$(e)_N$	0 06 07				Small
			F	40 --				
1912			M_N	12 33 49				Small
1913	20		$(e)_E$	2 25 44				
			eL_N	36 03				
			M_N	40 25	14			
			M_E	30	14			
			F	3 19 --				
1914			$(e)_E$	23 42 5[illegible]				Small
			e_{NZ}	44 58				
			F	0 12 --				
1915	22	IIIr	eP_{EN}	6 55 50			2135	Z-component lost.
			iP_{EN}	53				
			iS_E	59 20				
			iL_{EN}	7 00 58				From Wiechert.
			M_E	01 46	7	217		
			M_N	02 05	7	160		
			F	10 51 --				
1916		Ir	eP_E	11 13 26			2165	After shock of No. 1915.
			iS_E	16 59				
			L_{EN}	18 30				
			M_E	20 01	5	8		
			F	12 34 --				
1917	23		e_N	19 51 15				Initial uncertain, small.
			e_{EZ}	21				
			e_E	55 19				
			e_N	57 38				
			F	20 18 --				
1918			eP	20 56 22			6880	Small
			S_N	21 04 45				
			F overlapped by next quake.					
1919		IIIr	iP	21 19 43			4365	condensation
			iPP	21 18				Azi.: SW
			i_E	25 26				
			iS	43				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1919 (cont.)	23,VIII		iSS_Z	21 28 11				
			$i(ScS)_{EZ}$	29 47				
			L_E	31 46				
			M faint on all Galitzin components.					
	24		F	1 18 --				
1920		Ou	eP_{NZ}	22 34 26			10600	E-component lost.
			iS_N	45 50				
			eL_N	23 05 24				
			M_N	13 47				
			F	58 --				
1921	25		$(e)_{NZ}$	0 10.9				Trace of long surface waves.
			F	? --				
1922			iP_Z	18 55 02				condensation
			eP_{EN}	02				
			$eSKS_{EN}$	19 06 31				
			i_{EN}	07 56				
			F	56 --				
1923	26	Or	P_Z	11 40 37			2955	condensation
			eP_{EN}	37				
			eS	45 11				
			M_N	49 57				
			M	53.8				
			F	12 30 --				
1924			eL	22 19 26				Trace of surface waves.
			F	23 05 --				
1925	28		$(M)_N$	2 29 58				Small
1926			eP_Z	6 48 52			6820	Small
			e_{EN}	52				
			eS_N	57 12				
			S_N	58 50				
			F	7 28 --				
1927	29		e_Z	12 55 33				Small & indefinite.
			M_N	13 02 13				
			F	21 --				
1928			eL_N	19 47 44				Trace of surface waves.
1929			$(e)_N$	22 40 19				Small & indefinite.
			M_Z	57 37				
			F	23 34 --				
1930			e_N	17 06 44				Very small
			M_N	19 29				
			F	38 --				
1931	30		e	21 38 57				Very small
			e_E	48 14				
			F	22 22 --				

S. P. Lee, Superintendent
(Absent, in Germany)

Pan Chia Lin,
Assistant in Charge

September 8, 1936

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Instruments: 200 kg. horiz., 80 kg. vert. Weichert; Galitzin-Wilip.

Weichert	V	T_o	ε	γ/T_o^2
Z	--	--	--	--
N	102.1	5.1	3.5	.005
E	101.2	5.0	3.7	.007

May 17,'36
May 20,'36
Oct. 24,'35
Sept.16

Galitzin-Wilip	T_1	T	μ^2	kA/πl
Z	11.02	10.74	.032	496
N	11.30	11.67	.018	726
E	11.20	10.26	-.026	754

No.	Date	Char.	Phase	G. M. T. h m s	T_p s	A μ	Δ km	Remark
1932	2, IX		eNZ	2 46 51				Local shock.
			F	55 --				
1933		Ir	iP	9 21 10			2865	compression
			ipP?	35				Azi.: NE.
			S_N	25 38				Deep focus.
			eS_E	42				Depth.: 0.02R?.
			i_N	26 25				
			i_Z	27 41				
			F	10 14 --				
1934			eN	13 28 42				Initial uncertain
			eN	32 49				
			M_{NZ}	45.7	11			
			F	14 30 --				
1935	3	Ou	iP	12 34 22			7900	compression
			S_N	43 39				Azi.: SW
			eL_Z	58 23				Deep focus.
			M_Z	13 01 28	22			
			M_N	55	21			
			F	55 --				
1936			(e)	14 44 16				Trace
			M_N	15 07 55	13			
			M_Z	10 43	12			
			F	43 --				
1937		Or	eP$_{EZ}$	19 56 43			2690	
			S_N	20 00 57				
			M_N	07 38	14			
			F	21 00 --				
1938			eM_N	21 35 21				A train of surface waves.
1939	4	IIr	P	8 14 36			2635	
			PP$_E$	15 00				
			PP$_{NZ}$	04				
			i_Z	18 31				
			iS_{NZ}	46				
			L_N	21 25				
			M_{1N}	23 29	15	23		
			M_Z	24 41	16	31		
			M_{2N}	25 26	14	23		
			F	10 56 --				
1940	5		eN	17 37 51				Trace
			e$_Z$	55				
			i_N	48 38				
			F	18 21 --				

No.	Date	Char.	Phase	G.M.T.	Tp	Amu	km.	Remark
1941	5, IX	Ou	eP	21 54 09			44.2°	Initial very small.
			S_N	22 00 41				Deep focus?
			M_N	09 49				
			F	51 --				
1942	6	Ou	iP	17 52 28			10180	compression
			SKS?N	18 02 56				Azi.: NNE.
			S_{NZ}	03 34				
			PS?	04 23				
			M_{NZ}	34.5	18			
			F	20 44 --				
1943	7	Ir	P_N	2 40 46			2210	
			P_Z	52				
			S_N	44 22				
			i_N	47				Maximum movement.
			i_Z	46 47	10			
			F	3 10 --				
1944			eP?NZ	7 56 17			588	Near shock.
			e(S)	57 04				
			eS	19				
			eR_{EZ}	31				
			F	8 06 --				
1945			M_N	9 19 40				
1946		Ou	P_Z	12 36 53				compression
			F	14 38 --				
1947	8		eP_{NZ}	14 19 12				
			F	45 --				
1948	9		eP_{NZ}	2 53 20				Small
			eN	59 57				
			F	3 46 --				
1949	12		$(e)_Z$	11 01 51				Trace
			e_N	05 09				
			F	26 --				
1950		IIv	eP_{NZ}	16 02 49			1845	
			eS_E	05 52				
			L	07.4				
			M_E	08 24	8	12		
			M_{1N}	09 38	9	8		
			M_{2N}	11 29	9	10		
			F	19 24 --				
1951	15		$(e)_N$	13 16 59				Small
			e	20 44				
			F	50 --				
1952	16		P_Z	9 35 21				compression
			e	45 51				
			F	11 06 --				
1953	17		$e(L)_Z$	7 47 59				A train of sur-
			M_N	54 11	18			face waves.
			F	8 34 --				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1954	17, IX		eP_Z	17 28 14			93.4°	Small
			$e(PP)_Z$	32 00				
			$e(S)_N$	39 29				
			F	18 45 --				
1955	18		P	18 43 29			2646	compression
			iPP_{EN}	53				Azi.: SE
			iS_{EN}	47 40				
			iL_{NZ}	50.4				
			M_N	52 28	13	15		
			M_Z	55 30	13	26		
			F	21 52 --				
1956	19	IIIr	P	1 09 21			4490	compression
			iPP?	11 11				Azi.: SW
			iS_{EZ}	15 28				
			iS_N	32				
			iL	18.0				
			M out of limit on Galitzin.					
			F	5 23 --				
1957		IIr	P	6 37 59			4455	dilatation
			PP_{NZ}	39 34				Time uncertain
			iS_E	44 04				due to the failure
			iS_N	09				of time marks.
			iSS_N	47 05				
			iL_{EN}	47.8				
			M_E	56 24	16	25		
			M_N	29	14	17		
			M_Z	58 18	12	17		
			F	8 28 --				
1958	20		$(e)_{EN}$	1 18 39				Very small
			F	49 --				
1959			$(e)_Z$	10 26 19				Small
			M_N	34 50	13			
			M_{EZ}	36.7	14			
			F	59 --				
1960			eP	11 51 31				
			e_N	59 49				
			e_E	12 00 00				
			M_N	21 01	1y			
			F	13 38 --				
1961	21		eP_{EZ}	16 41 29			8835	Small
			$e(S)_{EN}$	51 34				
			F	18 02 --				
1962	23		$(e)_N$	23 17 20				Trace
			$e(L)_N$	34 42				
			F	57 --				
1963	24		e(P)	8 37 27				Initial very small.
			$e(S)_N$	41 42				
			$(S)_E$	42				
			M_Z	54 15				
			F	9 19 --				

No.	Date	Char.	Phase	G.M.T.	Tp	Amu	km.	Remark
1964	24, IX		$e(M)_E$	14 24 20				Train of surface
			M_Z	25 47				waves.
1965			(e)	19 27 58				Very small
			$e(S)_{EN}$	33 59				
			F	20 15 --				
1966		Iv	P	20 55 43			1920	dilatation
			$S?_{NZ}$	58 53				Time marks failed.
			I	59.8				
			M_E	21 01 03	9	5		
			M_N	04	10	5		
			F	44 --				
1967	25	Iu	e_Z	13 05 46			8555	Time marks failed.
			eS_{EN}	13 42				
			iPS_{EN}	16 26				
			$SS?_{EN}$	20 28				
			eL_{EN}	26.8				
			M_N	32 07	21			
			M_Z	40 00				
			M_E	42 36	18	15		
			F	15 50 --				

Given by S. P. Lee,
Superintendent

Pan Chia Lin, Assistant

October 8, 1936

Pei-An-Ho, W. of Peiping, China
φ: 40°3'55" N, λ: 116°5'44" E
h: 115m; Foundation: Granite

THE CHIUFENG SEISMIC STATION
of the
GEOLOGICAL SURVEY OF CHINA

Instruments: 200 kg. horiz., 80 kg. vert. Weichert; Galitzin-Wilip.

Weichert		V	T₀	ξ	γ/T₀²
	Z	--	--	--	--
	N	107.1	5.0	3.2	.017
Oct. 15	E	106.0	4.9	3.2	.008

Galitzin-Wilip		T₁	T	μ²	kA/πl
	Z	In adjusting			
Oct. 26, 1936	N	11.2	12.0	0.04	767
	E	11.4	11.7	0.00	777

No.	Date	Char.	Phase	G. M. T. h m s	T_P s	A μ	Δ km	Remark
1968	3,X	IIr	P_Z	21 57 36			4345	dilatation
			P_N	38				S-group very
			P_E	39				large.
			PP_{EN}	59 17				Azi.: SSE
			iS	22 03 37				
			iSS_{EN}	06 23				
			iL_N	59				
			M_N	13 17				
			M_E	15 03	15	13		
			M_Z	52	14	20mm.		
			F	23 50 --				
1969	5	Iu	iP_E	0 06 49	6		920	Z-component lost.
			SKS_{EN}	17 16				Deep focus type.
			iS_{EN}	55	9			
			PS_E	18 54				
			F	2 45 --				
1970		Ir	P_{EN}	6 15 01			3400	Z-component lost.
			iS_{EN}	20 04				
			eL_{EN}	22.4				
			M_E	29 08	15			
			F overlapped by next quake.					
1971		Ir	$(P)_E$	7 15 16			2635	Masked by coda.
			$iS?_E$	19 26				N-& Z-comp. lost.
			M_E	26 43	13			
			F	8 10 --				
1972		IIr	iP_{EN}	9 51 51	6		4535	Z-component lost.
			$i(pP)_E$	52 21				E-component faint
			$iPP?_E$	53 46				after iP.
			iS_E	57 49				Deep focus?
			$iSS?_E$	10 00 21				P-& S-group large
			$iScS?_E$	02 01				in comparison with
			F	13 25 --				surface waves.
								Epc.: 1°N, 126°E
1973	7	Ir	eP_N	3 05 38			2087	(U.S.C.G.S.)
			$S?_N$	08 53				
			M_{NZ}	13.0	13			
			F	45 --				
1974	9		$(e)_E$	17 50 01				Masked by micro.
			e_N	53 48				
			$e(L)_N$	56 56				
			F	18 47 --				
1975	10		Initial lost by changing paper.					
			F	4 44 --				
1976	13	Or	e(P)	6 39 30			4390	Minute marks failed.
			$S?_N$	43 31				Masked by micro.

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1976	13,X cont.		iE	6 46 08				
			F	7 47 --				
1977	18,	IIIv	e(P1)?Z	16 30 25				Probably two shocks.
			e(P2)Z	32 06				Minute marks failed.
			e(S1)Z	34 00				Initials disturbed by heavy micro.
			S2?	36 00				
			iL	38.8				
			M_E	40 30	9?	33		
			M_N	56	8	[illegible]		
			M_Z	57	10	73mm.		
			F	17 30 --				
1978	23	Or	eP_{EN}	16 48 53?				
			eL_{EN}	54 29				
			M_{EN}	17 03.9	19			
			F	21 --				
1979	24	Ir	eP_{EN}	16 06 26			2610	
			S	11 44				
			eL_N	13 55				
			L?E	14 21				
			M_N	17 10	13			
			M_Z	19				
			M_E	56	15			
			F	58 --				
1980	25	Or	e_{EZ}	11 23 [illegible]				Small & indefinite.
			eE	26 21				
			F	55 --				
1981		Ir	iP_{EZ}	15 34 47	6		2290	compression
			ipP	35 07				Deep focus.
			S_{EN}	38 23				Depth.: 0.02 R.
			isS_E	39 07				
			L_E	30				
			M_E	42 42	13			
			F	16 22 --				
1982	26	I	eP	9 11 38				At minute eclipse.
			eL_{EN}	16 18				
			M	17 56	12			
			F overlapped by next quake.					
1983		Iv	iP_{EZ}	9 37 05			1780	dilatation
			i(pP)	38 27				Deep focus.
			iEZ	41				Depth.: 0.02 R?.
			iS	40 02	6			
			F overlapped by next quake.					
1984		Iv	P_{EZ}	10 06 14				compression
			eP_N	23				
			M	12.9				
			F	35 --				
1985		IIr	iP_{NZ}	19 40 00	6		4655	dilatation
			PP_{NZ}	41 46				
			S	46 18				
			L_{EN}	50.6				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1985	26,X		M_E	19 59 00	15	42		
			M_Z	20 00 40	12	25mm.		
			M_N	41	12	17		
			F	21 32 --				
1986		Iu	eP_Z	23 16 03			6665	
			iP_{NZ}	08				compression
			S_{EN}	24 27				
			SS_N	28 34				
			L_E	31 06				
			M	40 03				
	27		F	0 40 --				
1987	29	IIr	eP	18 45 48			4080	dilatation
			iP	58				Eps.: In region of
			PP_{EN}	47 16				Guam.
			iS_N	51 37				
			S	41				
			L_N	53 18				
			L_{EN}	54.6				
			M_N	19 02 27	19	30		
			M_Z	41	16	16mm.		
			M_E	03 32	13	14		
			F	21 16 --				
1988	30		eP	11 21 28			4145	Trace
			eS?E	27 15				
			F	49 --				

Given by S. P. Lee,
Superintendent

November 12, 1936

Pei-An-Ho, W. of Peiping, China
φ: 40°3'55" N, λ: 116°5'44" E
h: 115m; Foundation: Granite

THE CHIUFENG SEISMIC STATION
of the
GEOLOGICAL SURVEY OF CHINA

Instruments: 200 kg. horiz., 80 kg. vert. Weichert; Galitzin-Wilip.

Weichert		V	T₀	ε	γ/T₀²
	Z	--	--	--	--
	N	~~104.0~~	~~5.0~~	~~3.4~~	~~.018~~
Nov.16	E	~~102.9~~	~~5.0~~	~~3.6~~	~~.018~~

Oct., 26, 1936 — November, 1936

Galitzin-Wilip		T₁	T	μ²	kA/πl
		In adjusting			
	Z	~~11.2~~	~~12.0~~	~~0.04~~	~~767~~
	N				
	E	~~11.4~~	~~11.7~~	~~0.00~~	~~777~~
					45

No.	Date	Char.	Phase	G. M. T. h m s	T_p s	A μ	Δ km	Remark
~~1989~~	~~2,XI~~	~~IIIr~~	~~P_{EN}~~	~~16 03 42~~			~~5000~~	~~Z component lost.~~
			S_E	08 19				
			S_N	20				
			eL_E	11 32				From Wiechert.
			M_E	15 14	16	176		
			M_N	15 16	16	107		
			F	18 38 --				
1990		IIIr	iP_E	20 50 27			2610	after iP from Wiechert.
			iP_N	29				
			S_{EN}	54 11				Destructive in
			L_E	55 25				Fukujama, Japan,
			L_N	52				with intensity
			M_N	57 34	13	191		R.F. VII-VIII.
			M_E	58 52				
	3		F	1 03 --				
1991		Ir	P_{EN}	4 49 33			3235	Z-component lost.
			eS_{EN}	54 26				
			M_E	5 02 44	13	6		
			M_N	03 09	12	5		
			F overlapped by next quake.					
1992		I	M_N	6 09 27	14			Masked by coda.
			M_E	10 36	16			
			F	7 02 --				
1993	4		M_N	8 18 44	15			A train of surface waves.
			M_E	19 58				
			F	54 --				
1994		Ir	iP	7 32 47			4910	compression
			$eS?_{EN}$	39 19				
			M_N	53 00	14			
			M_E	54 14	13			
			F	8 20 --				
1995		Cu	iP_{NZ}	13 53 29			2130	compression
			S_{EN}	14 00 19				Deep focus?
			F	32 --				
1996	5	Ir	eP_{EZ}	7 42 48			2320	Time inexact (min. mark failed).
			S_N	46 38				
			M_N	51 19	14			
			M_{EZ}	53.7	12			
			F	8 08 --				
1997	6		eP_E	12 55 58				Small local.
			P_N	56 00				
			i_{EN}	08				
			F	13 00 --				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
1998	8,XI		eL_E	6 30 10				A train of surface waves.
			M	32 40	15			
			F	48 --				
1999	9	Ir	eP?	6 11 59			1835	In minute eclipse.
			$eS?_{NZ}$	15 01				
			M_E	19 25	13	7		
			M_Z	27	13			
			M_N	30	12			
			F	30 --				
2000	10	I	$eL?_{EN}$	12 56.5				A train of long surface waves.
			M	13 05.6				
			F	32 --				
2001	11		M_N	1 02 43				A train of surface waves.
			M_E	55				
			M_Z	03 06				
			F	11 --				
2002		Ir	$e(P)?_Z$	17 17 33				confused by micro.
			e_Z	21 10				
			M	28 52	6			
			M	32.1	8?			
			F	18 04 --				
2003	12	Ir	e_{EN}	2 22 34			3610	Initial very small.
			S_{EN}	27 53				
			$eL?_{EN}$	29.7				
			F	3 ? --				
2004		Ir	iP	2 35 28			4020	compression Deep focus? Epc.: Near Guam.
			iS_N	41 08				
			SS_E	43 33				
			SS_N	36				
			i_E	44	10			
			i_N	48	12			
			L_N	44 12				
			M	49.8	13			
			F	9 54 --				
2005		Ir	iP_Z	20 09 53			2555	compression Deep focus. Light too weak, phases indistinguishable.
			$iP?_{EN}$	53				
			S_Z	14 01				
			F	53 --				
2006	13	IIIr	iP	12 38 16	8			compression Galitzin out of limit, after iP from Wiechert. Epc.: 57°N, 164°E (U.S.C.G.S.)
			$iS?_N$	43 37				
			eS_{EN}	55				
			M_N	52 37	14	1211		
			M_E	38	14	905		
			F	16 51 --				
2007		I	eI_{EN}	22 19.3				
			M_{EN}	23.7				
			M_Z	26 26				
			F	39 --				
2008	14	Ir	$(e)_Z$	1 02 53			2220	Initial disturbed.

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
2008	14,XI		eS?EN	1 06 29				
			M	11.1	14			
			F overlapped by next quake.					
2009			M	1 35.5				Masked by micro.
			F	2 19 --				
2010		I	e(S)	9 44.3				
			M_{1N}	50 20	16			
			M_{1E}	22	16			
			M_{2E}	52 23	14			
			M_{2N}	53 02	14			
			M_Z	03	14			
			F	10 28 --				
2011		Ir	eP_{EN}	14 37 55			2753	Same as No. 2010.
			$eS?_N$	42 14				
			M_N	51 13	14	9		
			M_Z	53 57	11			
			M_E	57 04	15	10		
			F	15 48 --				
2012		Ir	eP?	19 36 40			2697	Same as No. 2010.
			$eS?_N$	40 55				
			M_E	49 50	14	9		
			M_N	57	14	9		
			M_Z	52 41	13			
			F	20 47 --				
2013	15	Ou	iP	22 02 07			6647	dilatation
			i_{EZ}	04 06				Deep focus type.
			PP	59				Azi.: SE
			iS_{EN}	12 01				
			F overlapped by next quake.					
2014		Iu	iP	22 28 14	5		4245	compression
			PP	29 47				Epc.: 53°N, 170°E
			$S?_{EN}$	34 07				
			iL_{EN}	37 07				
			M_{1N}	42 35	16			
			M_{1E}	46	17			
			M_{2N}	47 56	14			
			M_{2E}	57	14			
			M_Z	58	14			
			F	23 45 --				
2015	16	Ir	iP	23 35 54	6		2790	dilatation
			iS_{NZ}	40 16	8			Deep focus type.
			iS_E	27	8			Epc.: 27°N, 142°E.
			F	0 40 --				
2016	18		$eP?_{EN}$	16 08 39				Very small.
			M_N	28 51	16			
			M_E	31 38	16			
			F	17 03 --				
2017	19	Iu	eP'	21 29 09			13535	
			PP	30 40				
			SKS	36 12				
			PS	40 13				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
2017 (cont.)	19,XI		SS?$_N$	21 47 08				
			eL$_E$	22 04 35				
			M$_E$	28 14	20	12		
			M$_Z$	49	21			
			M$_N$	34 58	18	12		-
			F	23 50 --				
2018	21	Or	iP$_{EN}$	21 52 29	5		2355	Z-component lost.
			S$_E$	56 17	6			
			eL$_{EN}$	57.9				
			M	22 00 52	14			
			F	22 --				
2019	22	O	M$_{EN}$	15 08 28				
			F	14 --				
2020		Iu	P'$_Z$	18 38 11			13445	dilatation
			iPP$_{NZ}$	39 40				
			SKS$_{EN}$	45 09				
			SKKS?$_N$	46 37				
			eL$_{EN}$	19 14.1				
			M$_E$	37 11	19			
			M$_Z$	43 48	17			
			M$_N$	53	17			
			F	20 30 --				
2021	23	Ir	eP?$_Z$	1 35 44			3110	Masked by micro.
			iP$_E$	47				
			eS$_Z$	40 39				
			S?$_{EN}$	36				
			M$_E$	46 34	11			
			M$_N$	47 17	8			
			M$_Z$	48 05	7			
			F	2 10 --				
2022	24	I	e?$_Z$	13 37 06				Initial confused by microseisms.
			eL$_{EN}$	39.6				
			M	45.0	13			
			F	14 16 --				
2023			(e)$_{NZ}$	22 44 43				Small & indefinite.
			(e)$_E$	48 13				
			iN	22				
			M$_E$	52 33				
			F	23 15 --				
2024	25	Ir	iP	11 48 50	6		2655	compression Epc.: 45°N, 146°E.
			eS	53 02				
			iS$_N$	10				
			eL	55.5				
			M$_N$	58 10	15			
			M$_E$	30	18			
			M$_Z$	42	15			
			F	12 44 --				
2025	26		M$_E$	3 30 51	18			Long train of surface waves.
			M$_Z$	32 09	16			
			M$_N$	21	16			
			F	4 03 --				

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
2026	26,XI	Ou	iPEZ	8 45 02			8155	compression Initial of N-comp unevident.
			SE	54 32				
			PSEN	43				
			F	9 10 --				
2027	29	Ou	eP	8 53 06			82[illegible]	Deep focus. depth.: 0.02 R.
			nP?	30				
			iSEN	48 10				
			isS?N	30				
			F	10 03 --				
2028		Ir	eP	22 54 26			2100	Azi.: SE
			iP	28				
			SE	57 52				
			iSN	55				
			LEN	58.9				
			MN	23 02 32	13			
			MZ	03 07	14			
			ME	29	15			
			F	44 --				
2029	30	Ir	P	23 53 46			4755	compression Deep focus type.
			i	54	7			
			PP?	55 33				
	1,XII		iS	0 00 09	8			
			F	1 17 --				

Given by S. P. Lee,
Superintendent

Dec., 10, 1936

Pei-An-Ho, W. of Peiping, China
φ: 40°3'55" N, λ: 116°5'44" E
h: 115m; Foundation: Granite

THE CHIUFENG SEISMIC STATION
of the
GEOLOGICAL SURVEY OF CHINA

Instruments: 200 kg. horiz., 80 kg. vert. Weichert; Galitzin-Wilip.

Weichert	V	T₀	ξ	γ/T₀²
Z	--	--	--	--
N	96.3	5.3	3.1	.011
E	97.0	5.0	3.1	.014

Oct. 26, 1936

Galitzin-Wilip	T₁	T	μ²	kA/πl
	In adjusting			
Z				
N	11.2	12.0	0.04	787
E	11.4	11.7	0.00	777

December, 1936 50

No.	Date	Char.	Phase	G. M. T. h m s	T_p s	A μ	Δ km	Remark
2030	1,XII	IIr	iP	6 12 29	5		1555	dilatation
			i_Z	47				Deep focus type.
			iS_N	15 05	7	11		Epc.: 30.5°N;
			iS_{EZ}	07	6	8		128.7°E
			F	7 55 --				
2031	4		$i\overline{P}$	3 56 42	2		120 ca.	dilatation
			$\overline{S}_{EN}$	58				Local shock.
			i_E	57 06				Azi.: NE
			i_N	10				
			F	4 04 --				
2032	8	Ir	eP_{NZ}	10 30 40			3400	
			i_N	32 01				
			$i(S)_N$	35 43				
			L_E	37 56				
			M	45.7	13			
			F	11 37 --				
2033	13		eP	16 19 03			5061	Small
			S_{EN}	25 44				
			F	50 --				
2034		Ir	P	21 37 55			4055	dilatation
			$(PP)_{NZ}$	39 08				Epc.: In the re-
			i_{EN}	43 37				gion of Guam.
			L_{EN}	46.1				
			M_N	53 54	14	6		
			M_E	55 11	14	6		
			M_Z	57 11	14			
			F	23 26 --				
2035	14	Ir	P	4 09 12	4		2910	compression
			iPP_{NZ}	45				
			iS_{EN}	13 44				
			iI_{EN}	15.4				
			M_E	16 35	18			
			M_N	22 43	14			
			M_Z	23 16	13			
			F	5 22 --				
2036	20	0	$i(P)_{EN}$	3 23 13	3			
			eL_{EN}	59 59				
			M_N	51 54	26			
			F	4 29 --				
2037		Iu	P_{NZ}	18 37 53			5220	compression
			$(PP)_{EN}$	39 51				
			S_{EN}	44 48	8			
			M_E	57 26	15	11		
			M_N	19 01 25	16	12		

No.	Date	Char.	Phase	G.M.T.	T_D	A_{mu}	km.	Remark
2037 (cont.)	20,XII		M_Z	19 01 37	15	18mm.		
			F	32 --				
2038	21	Iu	P	19 14 23			7835	compression
			S_E	23 38				
			S_N	41				
			eJ_{EN}	36.1				
			M	49.3	14			
			F	21 20 --				
2039	22		eN	8 40 16			6119	Small & indefinite.
			$e(P)_Z$	55				
			S_{EN}	47 57				
			M_E	58 54	22			
			F	9 25 --				
2040	23		$(e)_{EZ}$	12 19 11				Small & indefinite.
			$e(M)_N$	26 47				
			F	46 --				
2041			$(e)_E$	14 17 55				Initial very small.
			$(e)_Z$	58				
			eE	21 56				
			F	15 10 --				
2042	24	Or	P	10 12 44			4080	compression
			S?E	18 27				No min. marks;
			S?N	34				time inexact.
			F	11 13 --				Azi.: SW
2043			eP	13 25 42			4145	Small
			S_{EN}	31 29				
			F overlapped by next quake.					
2044			P?	14 01 23			4290	Small
			eS	07 18				
			F	55 --				
2045		Or	iP_{NZ}	19 33 30			2820	compression
			eS	37 54				
			M_E	43 21				
			F	20 10 --				
2046	26		$(e)_{EN}$	15 35 35				No min. marks.
			$(e)_Z$	36 35				Small
			M	41 27	16			
			F	16 09 --				
2047		Iu	iP	23 05 46			10140	compression
			PP_{NZ}	09 27				Epc.: North off
			$iSKS_{EN}$	16 17	9			New Zealand.
			iS	50	8			
			$iPPS_E$	18 26	12			
			eL	38 09				
			L_E	43 15	33			
			M_Z	30	23			
			F overlapped by next quake.					
2048	27	IIr	$(eP)_{EZ}$	0 19 56			2210	A destructive
			P	18				earthquake,

No.	Date	Char.	Phase	G.M.T.	T_p	A_{mu}	km.	Remark
2048 (cont.)	27,XII		S_{EN}	0 22 44				Epc.: In the region of To-schima, Japan
			iE	58	10	4		
			iZ	23 10	12			
			M_N	25 23	18?	34		
			M_E	23 17	12	15		
			M_Z	19	12	24mm.		
			F	2 07 --				
2049		Ir	eP	2 16 50			2180	After shock of No. 2048.
			iS_N	20 34				
			M	25.9	11			
			F	3 05 --				
2050			eP	8 52 38			6135	Small shock.
			eS?EN	9 00 20				
			i_N	02 19	7			
			F	28 --				
2051		Or	eP_{EZ}	13 49 01			2165	
			iS_{NZ}	53 34				
			eL_N	53 45				
			M_Z	59 21	11			
			F	14 26 --				
2052			$i\overline{P}$	16 14 14			100ca.	compression
			$\overline{S}$	28				Local shock.
			F	18 --	Slightly felt at Pei-an-ho.			
2053			e(P)	16 20 34				May be not initial, it appeared a few min. after new paper put on.
			M	36.0				
			F	52 --				
2054	28		eP_{EZ}	14 06 47			2365	Small
			S_{EN}	10 36				
			F	29 --				
2055		Ir	eP_{EZ}	17 24 22			2110	
			S_{EN}	27 49				
			L_N	28 37				
			M	33.4	12			
			F	18 17 --				
2056	29	IIu	iP	14 57 28	8		57?	compression
			i_Z	48	8			Deep focus: H: 0.03R.
			i(pP)	58 15				Epc.: 7.5°S; 156°E
			i(sP)	31				
			iS	15 05 08	8	8		
			i(sS)	06 47				
			L	10.5				
			F	18 06 --				
2057	30	Ir	eP	4 12 52			1900	
			i	13 17				
			S?EZ	16 02				
			M	21.3	12			
			F	5 08 --				

January 9, 1937 S. P. Lee, Superintendent.