

EARTHQUAKES.

In April, 1903, a Milne seismograph belonging to the Seismological Committee of the British Association was transferred from Oahu College to the magnetic observatory. The pendulum is suspended north, thus recording east-west motion. The period of the pendulum has been kept constant at 19 seconds. The sensitiveness, i. e., the amount of tilt corresponding to a displacement of 1 mm. in the end of the pendulum, was as follows:

1915.		1916.	
January 1 to March 28.....	0.38	January 11 to May 26.....	0.29
April 1 to July 26.....	0.41	June 1 to December 31.....	0.52
July 27 to December 31.....	0.55		

In the following table the times of the phases are given in Greenwich mean time counted from midnight. It will be seen that many of the recorded disturbances are of short duration and small amplitude, in many cases a mere swelling of the line, without distinct phases. In these cases the beginning has been tabulated as the beginning of the long waves, L.

Register of earthquakes.

No.	Date	P		L		M		F		Amplitude mm	Remarks
		h	m	h	m	h	m	h	m		
	1915.										
1568	Jan. 3	0	39.8	..	.....	0	47.8	1	08	0.2	
1569	4	0	37.3	0	44.6	0	52.8	1	55	0.3	
1570	4	..	.....	22	44.0	22	55.5	23	06	0.1	
1571	5	15	42.4	15	53.4	15	55.0	17	41	1.5	
1572	5	23	38.2	23	47.0	23	48.0	26	20	1.8	
1573	10	..	.....	23	41.6	23	49.8	24	33	0.1	
1574	13	7	22.9	7	45.3	8	03.0	10	43	0.7	
1575	21	15	26.8	15	45.5	15	55.2	16	13	0.1	S. at 15:37.8.
1576	21	..	.....	21	49.4	21	56.4	22	33	0.2	
1577	30	8	04.1	..	.....	8	14.6	8	55	0.1	
1578	Feb. 7	..	.....	22	18.9	22	28.9	23	01	0.3	
1579	10	..	.....	4	20.5	4	23.2	4	34	0.1	
1580	17	15	30.3	15	40.8	15	42.6	15	51	0.2	
1581	25	9	16.9	9	19.1	9	20.9	10	23	0.4	
1582	25	..	.....	14	18.3	14	22.9	15	27	0.2	
1583	25	20	43.8	20	49.5	20	49.8	22	15	1.7	
1584	26	..	.....	3	23.9	3	28.1	3	57	0.3	
1585	28	19	19.9	19	32.3	19	40.4	22	07	2.0	
1586	Mar. 5	..	.....	4	37.6	4	41.7	4	51	0.4	
1587	8	15	47.2	15	56.5	15	59.8	16	46	0.4	
1588	10	1	09.7	1	25.9	1	30.7	2	10	0.3	
1589	11	..	.....	16	36.1	16	39.8	16	50	0.2	
1590	11	18	25.5	18	34.0	18	41.2	19	17	0.8	
1591	12	15	08.7	15	24.7	15	33.9	17	31	0.8	S. at 15:15.7.
1592	17	..	.....	19	01.9	19	02.9	19	30+	0.4	
1593	18	..	.....	1	56.8	2	02.0	2	26	0.2	
1594	28	..	.....	18	57.3	18	58.3	19	15	5.2	
1595	31	..	.....	18	32.5	18	36.8	18	50	0.2	
1596	Apr. 2	..	.....	6	46.6	6	51.9	6	56	0.2	
1597	2	..	.....	12	12.7	12	17.1	12	23	0.2	
1598	3	20	41.2	20	45.8	20	50.2	22	54	1.0	
1599	4	..	.....	9	00.4	9	10.2	9	15	0.2	
1600	4	9	59.1	10	02.1	10	05.1	11	17	0.5	
1601	4	15	47.1	15	58.0	16	04.0	16	46	0.4	
1602	4	..	.....	18	49.7	18	55.9	19	08	0.2	
1603	7	16	20.4	16	42.3	16	46.3	17	51	0.5	
1604	8	14	19.6	14	30.3	14	33.4	14	48	0.6	
1605	23	..	.....	15	50.8	15	53.1	16	32	0.3	
1606	24	17	26.9	17	39.5	17	45.5	18	06	0.2	
1607	27	..	.....	11	43.9	11	55.9	11	58	0.2	
1608	29	19	27.8	19	37.5	19	41.3	19	50	0.3	
1609	May 1	5	09.0	5	21.5	5	25±	11	06	17.2+	S. at 5:15.9.
1610	2	4	14.4	4	22.3	4	25.9	5	08	1.2	S. at 4:18.3.
1611	3	3	29.6	3	37.3	3	40.2	..	..	2.1	S. at 3:33.4.
1612	3	4	22.8	4	35.1	4	40.4	7	17	2.8	
1613	3	..	.....	12	31.7	12	51.3	13	10	0.2	
1614	3	22	09.3	22	22.0	22	26.6	22	56	0.3	
1615	5	11	30.3	11	42.3	11	49.7	12	48	1.0	
1616	5	..	.....	15	53.4	15	54.4	16	16	0.2	

Register of earthquakes—Continued.

No.	Date	P		L		M		F		Amplitude mm	Remarks
		h	m	h	m	h	m	h	m		
1617	1915. May 6	12	17.0	12	23.0	12	25.6	13	39	1.4	
1618	8	..	..	15	09.3	15	15.3	16	08	0.2	
1619	12	11	41.6	12	09.0	12	33.8	13	05	0.2	
1620	14	6	56.7	7	04.0	7	06.8	7	56	0.8	S. at 7:00.2.
1621	14	..	..	14	47.0	14	54.6	15	10	0.2	
1622	16	..	..	17	09.0	17	10.8	17	18	0.2	
1623	16	..	..	17	50.0	17	52.3	18	03	0.2	
1624	21	..	..	5	48.5	5	53.2	6	12	0.2	
1625	21	12	32.9	12	59.0	13	01.5	13	09	0.2	
1626	June 1	14	59.1	15	23.7	15	27.5	16	50	0.5	S. at 15:11.3.
1627	3	..	..	23	43.9	23	49.1	23	55	0.3	
1628	4	22	14.6	22	22.8	22	27.6	23	13	0.3	
1629	6	..	..	3	56.5	4	05.2	4	14	0.1	
1630	6	7	20.9	7	24.7	7	28.0	7	55	0.2	
1631	6	..	..	8	49.0	8	53.5	9	07	0.1	
1632	6	19	54.4	20	02.3	20	08.9	20	45	1.4	
1633	6	21	43.5	21	53.0	21	54.8	24	44	2.5	S. at 21:47.6.
1634	7	22	15.0	22	22.2	22	28.6	23	20	0.5	
1635	11	..	..	3	51.2	3	59.2	4	03	0.1	
1636	11	..	..	6	44.2	6	51.9	7	07	0.4	
1637	11	..	..	15	28.9	15	31.9	16	25	0.2	
1638	14	..	..	3	49.0	3	54.4	4	03	0.2	
1639	18	..	..	0	12.5	0	22.5	0	40	0.2	
1640	23	..	..	4	16.4	4	19.4	4	25	0.4	
1641	23	..	..	5	14.4	5	16.2	5	19	0.3	
1642	27	15	41.5	15	48.9	15	55.0	16	46	1.2	
1643	29	13	56.7	14	07.7	14	12.2	14	40	0.5	
1644	July 2	..	..	14	00.6	14	10.2	14	27	0.1	
1645	4	..	..	2	28.9	2	39.0	2	48	0.1	
1646	8	22	36.6	22	45.2	22	57.8	23	24	0.3	S. at 22:41.2.
1647	10	..	..	1	01.8	1	02.7	1	10	0.1	
1648	13	..	..	19	45.0	19	51.2	20	04	0.1	
1649	24	..	..	19	18.9	19	27.6	19	43	0.1	
1650	25	..	..	21	02.9	21	04.2	21	15	0.3	
1651	28	..	..	9	27.0	9	42.8	10	04	0.2	
1652	31	1	40.2	1	52.5	1	56.4	5	36	17 +	S. at 1:46.3.
1653	Aug. 3	13	16.6	13	37.5	13	46.2	16	31	3.9	S. at 13:25.7.
1654	6	13	28.3	13	38.5	13	40.5	15	07	2.3	S. at 13:33.0.
1655	10	..	..	2	59.7	3	05.4	3	42	0.2	
1656	12	7	59.6	8	19.4	8	24.9	8	55	0.4	
1657	12	..	..	10	09.0	10	19.5	10	32	0.1	
1658	16	1	09.1	1	13.3	1	18.2	2	16	1.2	S. at 1:11.0.
1659	19	..	..	1	04.4	1	10.7	1	27	0.1	
1660	31	21	03.3	21	22.5	21	28.3	22	02	0.2	
1661	Sept. 3	..	..	23	22.3	23	30.3	23	37	0.2	
1662	6	..	..	17	44.9	17	49.3	19	07	1.2	S. at 17:42.9.
1663	7	1	31.6	1	50.8	1	54.1	6	16	3.2	S. at 1:40.5.
1664	12	..	..	0	19.7	0	42.5	1	00	0.2	
1665	15	..	..	22	26.8	22	29.2	22	33	0.1	
1666	28	..	..	9	46.8	9	49.5	9	56	0.1	
1667	Oct. 3	..	..	2	05.6	2	10.0	2	20	0.1	
1668	3	7	01.5	7	10.2	7	12.4	10	40	6.1	
1669	5	13	57.3	..	..	14	04.6	15	04	0.5	
1670	8	15	54.2	15	59.2	15	59.7	16	22	0.2	
1671	10	..	..	6	15.3	6	21.4	6	37	0.2	
1672	10	..	..	10	32.9	10	37.8	10	43	0.1	
1673	11	..	..	16	34.7	16	41.0	16	45	0.2	
1674	11	..	..	20	14.6	20	21.7	21	38	0.4	
1675	12	..	..	21	45.8	21	46.7	22	46	0.4	
1676	23	..	..	12	15.0	12	20.2	12	36	0.6	
1677	Nov. 1	7	33.6	7	40.6	8	02.4	11	28	6.5	S. at 7:36.5.
1678	4	3	29.1	..	..	3	30.0	4	24	0.2	
1679	6	10	09.4	..	..	10	16.8	10	32	0.1	
1680	7	8	00.0	8	10.0	8	14.0	8	26	0.3	S. at 8:04.8.
1681	13	11	37.1	..	..	11	41.0	11	46	0.1	
1682	18	4	11.7	4	19.7	4	20.6	5	25	0.8	
1683	18	20	40.9	20	58.2	21	03.8	21	25	0.5	
1684	21	0	21.1	0	30.1	0	35.2	3	24	6.6	S. at 0:27.3.
1685	29	10	32.0	..	..	10	35.4	10	40	0.1	
1686	29	14	37.5	..	..	14	39.3	14	45	0.1	
1687	30	5	23.1	..	..	5	25.0	5	29	0.1	



Register of earthquakes—Continued.

No.	Date	P	L	M	F	Amplitude	Remarks
		<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>mm</i>	
	1915.						
1688	Dec. 3	3 03.5	3 28.0	3 33.4	5 09	0.3	S. at 3:17.0.
1689	6	21 15.3	21 23.7	21 27.3	21 49	0.2	
1690	9	.. ..	13 42.6	13 47.6	14 29	0.5	
1691	14	.. ..	8 16.4	8 21.3	8 34	0.1	
1692	17	7 44.0	8 00.6	8 01.7	8 56	0.2	S. at 7:52.1.
1693	19	.. ..	21 07.6	21 14.2	22 35	0.1	Not well defined.
1694	21	.. ..	9 32.9	9 36.3	9 41	0.1	
1695	22	.. ..	12 04.4	12 09.1	12 28	0.1	
1696	27	.. ..	4 35.3	4 44.0	5 13	0.4	
1697	29	.. ..	0 08.4	0 25.2	0 33	0.1	Not well defined
1698	29	.. ..	22 16.0	22 19.5	22 28	0.1	
1699	31	12 27.9	12 34.1	12 37.7	13 59	2.0	S. at 12:30.8.
1700	31	23 02.7	23 08.8	23 17.7	24 05 24 04	0.4	S. at 23:05.9.
	1916.						
1701	Jan. 1	13 30.2	13 44.2	13 50.6	18 38	17 +	S. at 13:38.2.
1702	2	23 55.4	24 00.8	24 02.1	24 25	0.2	
1703	3	.. ..	2 04.0	2 06.0	2 20	0.1	
1704	3	.. ..	23 22.2	23 29.0	23 34	0.2	
1705	11	11 38.5	11 43.8	11 48.0	12 22	0.2	
1706	11	.. ..	17 02.8	17 08.8	17 22	0.2	
1707	13	6 30.0	6 51.3	7 00.0	.. ..	8.6	S. at 6:39.3.
1708	13	8 32.5	8 52.5	8 58.0	12 55	17.2	S. at 8:42.0.
1709	13	.. ..	22 20.1	22 27.5	22 57	0.2	
1710	18	.. ..	14 22.8	14 27.5	14 52	0.2	
1711	19	.. ..	11 32.1	11 37.2	12 02	0.1	
1712	19	19 14.8	19 25.8	19 28.9	20 12	2.2	S. at 19:20.3.
1713	24	7 23.1	7 52.8	8 16.3	9 39	0.6	
1714	26	.. ..	8 34.1	8 46.2	9 23	0.1	
1715	26	12 39.4	12 42.7	12 44.0	14 05	3.2	
1716	30	20 29.1	20 32.7	20 35.5	20 44	0.2	
1717	30	20 51.0	20 57.1	20 59.2	21 53	1.2	S. at 20:53.9.
1718	31	18 19.5	18 30.0	18 36.7	.. ..	2.4	S. at 18:24.5.
1719	Feb. 1	7 46.8	8 04.5	8 13.4	.. ..	2.4	S. at 7:55.0.
1720	1	.. ..	9 40.4	9 46.4	11 08	0.7	
1721	2	14 58.3	15 01.1	15 03.7	15 12	0.3	
1722	2	.. ..	17 57.6	18 01.2	18 05	0.1	Tremor.
1723	2	.. ..	20 09.2	20 13.0	20 24	0.1	Tremor.
1724	2	21 44.1	21 56.1	22 00.4	22 29	0.5	S. at 21:50.5.
1725	3	.. ..	10 32.8	10 37.4	11 03	0.3	
1726	3	.. ..	19 37.0	19 43.3	19 58	0.2	
1727	6	.. ..	11 07.4	11 12.8	11 50	0.4	
1728	6	21 59.1	22 07.2	22 12.6	25 42	9.9	S. at 22:03.6.
1729	8	15 59.6	16 17.2	16 19.6	16 39	0.1	M ₁ =0.2 mm. at 16:00.1.
1730	9	.. ..	20 34.6	20 38.9	20 48	0.2	
1731	9	23 46.9	23 50.3	23 53.0	24 10	0.3	
1732	10	11 18.7	11 24.8	11 26.8	11 59	0.3	M ₂ =0.3 mm. at 11:30.9.
1733	11	8 54.0	9 15.6	9 19.9	9 29	0.3	
1734	14	10 23.2	10 36.1	10 40.1	11 33	1.0	S. at 10:30.2.
1735	15	11 49.3	11 55.2	11 56.8	13 25	0.6	S. at 11:51.9.
1736	20	17 54.2	18 01.7	18 02.3	21 07	1.9	
1737	22	.. ..	20 20.8	20 22.0	20 35	0.1	
1738	27	20 32.6	20 53.2	20 56.7	24 26	6.3	S. at 20:41.2.
1739	Mar. 4	7 20.0	7 35.6	7 44.1	8 32	1.0	S. at 7:27.3.
1740	12	7 50.8	8 01.1	8 05.2	8 25	0.2	
1741	16	.. ..	22 57.2	22 59.2	23 05	0.2	
1742	18	1 15.2	1 20.0	1 25.2	1 39	0.2	
1743	19	12 10.1	12 23.7	12 30.9	13 06	0.7	S. at 12:17.7.
1744	19	23 37.1	23 51.1	23 54.8	24 02	0.2	S. at 23:43.7.
1745	23	9 00.8	9 06.6	9 10.2	9 33	0.4	S. at 9:03.9.
1746	26	0 13.2	0 25.4	0 33.6	3 20	1.1	S. at 0:19.5.
1747	27	.. ..	23 08.9	23 14.4	23 28	0.1	
1748	31	11 24.2	11 26.0	11 27.2	11 56	0.3	
1749	Apr. 2	.. ..	8 36.9	8 37.8	8 44	0.1	
1750	3	10 35.5	10 40.0	10 43.6	11 09	0.2	
1751	7	9 46.9	10 22.0	10 47.7	12 31	3.4	S. at 10:00.1.
1752	12	9 34.1	9 43.6	9 48.6	10 07	0.4	
1753	14	.. ..	17 49.7	17 52.7	18 20	0.3	
1754	14	.. ..	20 57.4	21 01.0	21 06	0.2	
1755	14	.. ..	21 46.3	21 51.7	22 30	0.3	
1756	15	12 56.8	13 21..	13 39.3	15 58	0.4	
1757	18	4 07.4	4 13.7	4 16.1	6 08	3.7	

