

1961 - 1962

January 1961		February 1961		March 1961		April 1961		May 1961		June 1961		July 1961		August 1961		September 1961		October 1961		November 1961		December 1961	
1	1.2	2	1.5	3	1.8	4	2.1	5	2.4	6	2.7	7	3.0	8	3.3	9	3.6	10	3.9	11	4.2	12	4.5
13	4.8	14	5.1	15	5.4	16	5.7	17	6.0	18	6.3	19	6.6	20	6.9	21	7.2	22	7.5	23	7.8	24	8.1
25	8.4	26	8.7	27	9.0	28	9.3	29	9.6	30	9.9	31	10.2	32	10.5	33	10.8	34	11.1	35	11.4	36	11.7

1961 - 1962

Two horizontal components of HES seismograph were set by Dr. T. ETO, a member of the 5th JARE.

The seismographs were operated by Mr. Z. SEINO, a member of the wintering party of the 5th JARE, and were observed with the attenuation factor  $\mu=1/5$  from January to May and with  $\mu=1/2$  from June to January in 1962. Seismograms were read by a member of the National Science Museum.

As Syowa Station was closed in January of 1962, the seismological observation was suspended until 1966.

January 1962		February 1962		March 1962		April 1962		May 1962		June 1962		July 1962		August 1962		September 1962		October 1962		November 1962		December 1962	
1	1.2	2	1.5	3	1.8	4	2.1	5	2.4	6	2.7	7	3.0	8	3.3	9	3.6	10	3.9	11	4.2	12	4.5
13	4.8	14	5.1	15	5.4	16	5.7	17	6.0	18	6.3	19	6.6	20	6.9	21	7.2	22	7.5	23	7.8	24	8.1
25	8.4	26	8.7	27	9.0	28	9.3	29	9.6	30	9.9	31	10.2	32	10.5	33	10.8	34	11.1	35	11.4	36	11.7

February 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
9	iP	02	20	17.3		
11	-iP +iS	21	13 22	09.1 59.2	1.8	1.0
12	+iP	01	30	45.5	1.1	1.0
20	+iP	18	36	39.1	0.4	4.0
22	+iPN +iSN	22	05 15	32.6 24.3	1.9 2.8	2.5 2.1
26	+ePN	06	00	38.1	1.8	1.1

March 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
2	ePE	18	34	21.1		
7	+iP eSE iXE	10	22 32	42.5 13 57.1	4.0	20.0
9	+iPN	15	21	57.9		
10	+iPN	16	42	15.8	0.7	1.2
13	-iP	20	11	35.7		
20	+eP	23	55	03.6	0.8	2.2

April 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
29	+iP	09	39	21.8	1.3	3.1

May 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
6	-iP	23	26	06.3		
8	-iP	19	35	10.4	1.0	1.9
10	+eP	18	50	00.0	0.9	0.5
11	-iP	08	48	52.0		
13	+iP	14	30	50.1	1.5	1.0
15	-iP -iS	19 20	54 01	56.6 59.6	1.4	1.0
	+iP	21	35	39.5		
17	-ePN	19	49	19.3	0.9	0.5
18	-iP	17	27	01.1	1.3	1.2
22	-ePN +eSN iXN	17	44 55	56.2 14.1 44.7	1.4 1.7 3.3	2.9 4.0 5.0
24	+ePN	18	00	33.2	1.0	0.2
26	eP	11	50	50.8		

June 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
1	+iP	05	03	16.7	1.8	1.3
	+iP	23	41	28.9	2.8	2.9
7	+ePE	14	26	43.1	2.5	1.0
8	-iP	15	56	10.0		
13	+iP iXN eXN -iSN	21 22	50 00	13.7 33.9 32.0 41.0	1.1 1.3 3.5	1.5 2.5 3.5
16	+iP	10	55	29.5	2.3	2.0
18	+iPN +eSN	14 15	06 15	18.0 19.3	0.7 1.5	0.2 0.3
	+iPN	22	22	51.2	2.1	1.9
20	+ePN iXN	08	39 40	02.3 09.3	0.5 1.6	0.5 3.0
21	iP	06	36	32.0		
24	-iP -eP	16 19	52 47	08.9 22.0	0.6 1.4	0.9 1.0
26	-iP	15	07	18.8	1.2	1.2
27	+iP	08	12	09.6		
29	+iP	09	35	50.2	1.5	2.0
30	-eP	21	20	10.4	0.6	2.0

July 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
1	-iP	13	23	06.7	1.6	8.3
	-eP	22	11	54.9	0.7	1.1
	eX		12	34.4	2.1	2.0
2	-iP	08	57	52.7	1.3	1.0
	-eP	17	00	17.7	2.0	2.0
3	+iP	01	56	13.1	1.3	0.9
	+iP	15	02	31.4	1.3	2.0
4	-iP	20	06	40.0	2.3	3.1
5	-iP	02	36	39.9	1.7	2.1
	-iP	02	31	45.6	0.9	1.0
	+eP	19	31	27.1	1.0	1.0
6	-iP	03	32	56.7	1.3	2.0
	eP	13	20	57.4		
	ePE	16	36	08.3		
7	-iP	22	01	56.2	1.8	25.0
	eSN		12	13		
	+iP	13	23	48.9		
8	iX		24	04.4	2.2	12.0
	+eSE		34	38.8	1.0	1.2
	-iP	15	40	46.6	1.2	5.0
9	-iP	22	31	59.6	1.9	5.0
	-iPN	15	47	06.5	1.5	7.0
	+eSN		53	03.7	1.6	5.0
10	+ePN	22	00	10.5	1.5	1.7
	+iPN	04	01	52.9	1.5	2.9
11	+iSN		11	38.4	3.1	5.0
	+eP	11	42	31.2	1.0	2.0
12	-ePE	15	50	57.2	1.1	1.0
	-iP	06	04	48.3	1.0	2.0
13	-iP	09	44	21.1	1.3	2.0
	+iP	18	47	20.8	0.7	2.0

July 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
13	-iP	21	09	17.9	0.8	2.0
	+iP	21	36	53.5		
14	iXE		37	52.7	1.3	3.0
	+iP	10	42	02.5	1.3	0.9
15	+iP	14	06	36.8	1.0	2.0
	-iSN		15	49.5	1.5	1.5
16	-eP	13	55	57.6	1.0	2.0
	+iS	14	13	54.7	1.6	2.0
	-eP	19	22	42.0	1.6	2.5
17	+iP	20	11	33.3	1.7	2.0
	-iP	21	28	17.7	1.2	2.6
	+ePE	14	22	43.7	1.5	2.0
18	+ePE	14	22	43.7	1.5	2.0
19	+ePE	03	56	26.2	2.2	7.0
	+iP	14	16	14.1	1.7	5.0
20	+iP	15	42	50.8	1.4	6.1
	-iP	22	03	42.9		
21	-iP	18	52	14.2	1.6	3.5
22	+iPE	09	29	41.8	1.4	4.0
	-iPE	19	51	55.2	1.2	5.4
23	-iP	01	18	46.3	1.2	1.5
	+iSN		29	12.5	2.9	8.5
	+ePN	13	33	29.0	1.0	2.0
24	+eSN		43	55.0	3.3	1.0
	-iP	16	39	47.4	1.7	7.5
25	+iSN		50	03.0	2.6	2.1
	-eP	23	44	31.8	1.3	2.7



## August 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
1	-iP	05	52	56.2	2.2	7.5
	-iSE	06	03	58.8	2.4	4.0
	-iP	07	27	22.0	1.0	5.0
	-iSN	32	15.6	2.5	7.0	
	-iP	10	10	39.2	0.6	1.5
	-eSN	15	49.2	3.2	6.0	
2	-eP	03	37	45.8	1.0	4.2
	+eP	10	34	15.9	1.3	0.9
5	+iP	09	39	40.9	1.9	5.7
6	+iP	04	34	57.3	1.7	0.9
7	+iP	12	34	28.8	1.2	3.3
	-iP	17	09	51.9	1.2	3.0
8	-iP	12	38	14.3	1.3	5.1
	-iP	20	38	26.0	0.9	1.1
	-eP	23	50	11.4	1.5	1.2
9	-iP	16	14	57.1		
11	+iP	10	37	33.9	1.4	1.8
	-iP	11	17	15.9	1.2	3.5
	-eP	16	10	49.6	1.2	8.2
	-iSE	14	19.4	3.6	14.2	
	+iP	22	49	56.2	1.6	1.7
+iSN	23	00	12.5	3.6	9.0	
14	-eP	02	27	28.7	1.1	1.5
	+iP	18	59	18.3	1.7	3.8
	-iP	23	41	10.4	1.0	3.0
+iSE	51	23.6	1.9	3.9		
15	-iP	18	52	53.0	1.3	3.9
16	-iP	03	45	32.4		3.8
	-eP	16	26	39.9	1.3	2.9

## August 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
17	+eP	01	16	20.0	1.6	3.0
	-eP	05	15	21.8	0.8	1.7
	+eP	22	05	28.3	0.8	1.0
-iS	07	58.0	1.0	5.0		
18	+eP	04	01	53.0	1.4	1.0
	-iP	11	12	57.8	1.2	5.0
19	+iPE	05	21	32.2		
	-iSE	30	57.2	1.8	8.0	
20	+iP	15	30	56.2	1.5	1.8
	+iP	16	13	07.2	0.9	4.9
	-eP	02	12	59.2	1.6	2.0
21	+iP	05	46	11.4	1.4	3.2
	-iS	48	18.5	1.8	10.0	
22	-iP	16	19	48.9	1.5	3.5
	+iSE	16	30	02.7	2.5	1.0
22	-iP	09	12	24.6	2.4	5.5
23	+iP	12	11	01.1	0.8	3.0
24	-iP	20	40	01.0	1.5	2.1
28	+iP	06	40	29.0		
	+iP	19	38	40.5	2.2	5.0
	+iP	20	39	42.1	1.7	1.4
29	+iP	21	56	32.8	1.2	2.8
	+iP	02	00	22.1		
31	+iS	09	01.3			
	+iPN	03	18	23.2	1.8	4.5

## September 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
2	-iP	11	01	32.5	1.6	2.5
	-eP	17	10	54.0	1.8	1.5
3	-iP	09	13	30.0	0.9	2.9
4	+iP	10	09	01.4	1.4	7.9
5	+eP	03	27	28.8	2.0	2.9
	-iP	11	54	37.6	2.9	5.5
	-iP	11	55	53.7	1.1	12.1
	-eP	22	49	22.6	0.9	1.8
6	-iP	15	43	16.5	1.5	3.1
8	iP	11	32	41.9		
	iSN		37	42.6		
10	iP	04	56	08.6		
	-iSN	05	04	54.4	2.2	14.0
	+iP	11	53	26.2	1.5	4.0
	-iP	15	52	34.1	1.4	0.9
11	-iP	18	20	56.3	0.9	3.0
	-iP	14	57	33.7	1.1	2.1
	-iP	23	49	38.1	1.3	-1.9
12	-iP	00	29	11.3	0.7	4.5
	-iP	05	15	28.4	1.5	2.7
	-iP eSN	19	35 40	13.1 11.7	2.4	3.5
13	+iP	21	29	20.4	1.8	7.0
14	+iP	11	32	19.9	1.3	4.0
	+eP	18	18	16.8	1.3	1.2
17	-iP	23	35	05.4	2.0	3.7
18	iP	03	06	35.1		
	-iS		15	30.1	2.0	3.2
19	-iP	21	40	26.5	1.0	3.0
	+iSE		45	05.6	3.5	8.0
20	+iP	19	16	52.2	1.8	1.2
22	-eP	19	06	01.6	1.0	4.8
	-iP	21	35	50.5	0.7	1.3
23	-iP	08	28	22.9	1.3	2.2
25	+eP	22	28	06.5	1.7	1.8
26	-iP	08	24	15.9	0.7	1.0
27	+iP	06	46	03.8	1.2	10.3
	-iP iS	12	13 18	19.4 08.0	2.4	11.0
28	+iP	05	05	48.2	1.2	8.0

## October 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
2	-eP	05	49	06.5	1.8	4.0
	-iP	17	14	04.1	1.3	6.0
8	-iP	23	54	24.6	1.8	8.9
	+eS	24	04	44.0	1.5	2.5
9	+iP	03	28	14.1	1.8	1.2
11	+iP	00	41	36.4	1.4	5.3
	+eP	10	51	01.5	1.0	0.8
12	-iP	05	05	27.0		
13	+eP	08	23	55.8	0.8	0.7
	-iP	10	52	57.8	1.4	4.0
	+iP	17	40	40.3	1.2	3.2
16	+iP	04	32	26.7	1.3	1.5
	+eSN		36	37.0	1.8	7.0
18	+eP	00	22	00.4	0.7	0.9
	-iP	17	02	25.7		
19	-iP	18	20	57.4	1.3	3.0
	-iP	11	29	28.4	1.8	10.0
	-eS		37	44.0	1.4	3.0
23	-iP	19	34	48.1	1.9	6.5
	+iP	00	14	48.9	2.1	4.0
24	-eP	14	52	47.0	2.4	1.5
	iX		56	48.1	2.4	3.0
24	+iP	07	49	13.8	1.6	4.0
25	-eP	12	16	40.7	0.8	0.5
	-eP	14	33	09.3	1.0	2.0
26	+eP	05	21	36.6	1.8	4.0
	+iP	15	39	06.7	0.7	0.8
	iX -iS		49	15.6 03.0	3.8 3.5	26.2 4.5
28	-iP	19	40	45.1	2.5	6.0
	-iP	14	59	32.8	1.4	5.0
29	+iP	22	57	22.5	1.2	1.1
	+iP	06	01	11.0	1.0	1.0
30	-eP	09	32	15.3	2.0	1.5
	-eP -iP	02 17	36 46	18.3 42.4	2.8 0.7	2.7 1.3



## November 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
2	+eP	03	18	57.6	1.4	2.1
3	-iP	21	57	09.5	1.8	2.1
4	-iP	03	58	03.2	1.0	2.5
6	-iP	00	05	56.7	1.6	2.0
	iP	05	42	13.4		
	+iP	15	06	49.0		
7	-iP	00	51	42.4	1.0	3.1
	-iP	12	07	12.8		
	-iP	21	21	14.6		
8	-iP	11	01	41.6	1.0	3.0
	-eP	19	21	23.9		
	-iP	20	47	14.0		
9	-eP	01	21	36.1	1.0	1.1
	+iP	04	11	15.0		
	-iP	18	49	37.5		
10	+iP	02	20	00.3	1.5	4.0
	iX			25.5	1.4	3.1
	+iP	11	44	43.8	0.8	0.9
	+iP	18	12	47.5	1.8	6.0
	+iS		14	54.1	1.2	9.0
+eP	23	55	44.4	0.8	1.1	
12	+iP	02	26	27.2	1.7	6.8
	-iP	10	25	14.1	1.3	3.1
	-iP	18	23	54.8	1.1	4.0
14	+iP	12	50	19.9	0.6	5.0
	-iP	21	51	09.9	1.1	3.5

## November 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
15	+iP	07	36	26.7	2.3	2.8
16	+eP	00	58	05.7	1.4	1.3
17	+iP	22	30	05.1	1.3	3.5
18	-iP	11	29	05.1	1.7	5.9
19	+iP	22	34	32.0	0.9	10.5
	+iSKS		44	40.5	2.1	2.5
	-iS			59.9	2.3	4.5
22	+eP	12	28	18.4	0.7	1.1
	-iP	15	12	20.4	1.1	1.0
	+iP	16	19	21.1	2.2	3.1
	-iP	20	51	24.9	1.5	1.1
23	-eP	14	32	45.8	1.7	4.3
25	+iP	13	17	59.4	1.4	4.0
	-iP	14	24	27.6	1.4	3.4
	-eP	22	21	05.0	1.7	2.1
27	iP	02	00	27.3	2.0	
	+eS		04	56.1	1.4	0.9
	-iP	17	23	31.1	0.9	4.5
29	-iP	09	36	13.7	1.9	5.5
30	-iP	10	29	01.7	1.2	1.0

December 1961

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
1	+iP	07	54	11.0	1.2	4.0
3	+iP	12	16	20.4	2.3	5.5
5	+iP	13	10	34.0	1.0	6.0
6	+iP	13	47	54.0	1.0	2.1
	-iP	16	59	05.5	1.0	1.7
9	-iP	04	11	28.2	1.4	9.9
	-iP	04	37	09.3	1.0	4.9
	+iP	11	27	56.8	2.3	3.5
	+iP	20	01	16.0	1.3	3.9
11	-iP	20	40	39.5		
	-eS		43	32.7	0.7	2.0
13	-eP	12	02	12.6	2.3	3.5
14	-iP	07	23	25.8	1.8	3.1
16	+iP	10	11	43.0	1.9	2.0
17	+eP	21	44	32.0	1.6	3.9
	-eS		50	44.2	2.4	5.0
20	+eP	13	39	15.5	1.8	3.2
24	+iP	02	53	09.1	2.7	5.7
	-eP	23	53	44.1	1.8	6.0
25	+eP	08	13	36.8	2.5	6.0
26	+iP	04	36	00.2		
	+iP	06	22	59.2	1.8	7.7
27	+iP	02	27	35.2	1.3	2.5
	+iP	16	58	15.2	2.7	3.5
	+iP	23	58	41.6	1.5	5.1
28	+iP	22	30	20.0	4.3	4.8
29	+iP	00	08	46.3		
30	-iP	00	59	14.7	3.1	4.2

January 1962

Date	Phase	Arrival time			Period s	Amplitude mm
		h	m	s		
1	+iP	05	35	46.2	1.5	3.5
2	+eP	12	42	32.9	1.4	1.5
	-iP	23	18	34.2	1.2	3.5
3	+eP	11	33	39.9	0.8	2.9
	-eP	18	13	01.3	1.1	2.5
4	+iP	00	32	48.3	2.2	3.5
	-iP	05	53	33.8	1.2	2.1
	-iP	08	17	58.3	1.5	5.5
5	+eP	00	36	42.6	2.5	3.5
	-iP	12	04	13.2	1.6	3.1
	+eP	14	43	48.0	1.8	1.5
8	-eP	01	19	03.4	1.6	1.9
	+iP	05	55	14.8	1.0	2.5
9	-iP	09	51	55.8	1.3	3.1
	+iP	13	00	03.6	2.5	4.0