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Bulletin of the
Urakawa Seismological Observatory

No. 3

January-March

1968

Urakawa Seismological Observatory
Faculty of Science, Hokkaido University

Japan

Urakawa Seismological Observatory

Station: Kamikineusu (KMU)

Location Latitude: $42^{\circ}14'14''$ N, Longitude: $142^{\circ}58'01''$ E, Height: 180 m.Instruments

	Abbr.	Comp.	T_s (sec)	h_s	T_g (sec)	h_g	σ^2	V_{max}^*
Film-recording Seismograph	N	N-S	0.94	0.70	0.28	3.1	0.003	15,000
	E	E-W	0.93	0.73	0.25	3.0	0.003	15,000
	Z	U-D	0.91	0.70	0.34	1.8	0.003	19,000
	ZX	U-D	0.89	2.02	0.30	1.4	0.018	120,000
	Abbr.	Comp.	T_s (sec)	h_s	Velocity-Sensitivity #			
Tape-recording Seismograph	T-1	U-D	1.0	1.4	0 ~ 4	mm/ μ kine	(Tripartite Array)	
	T-2	U-D	1.0	1.4	0 ~ 4	"		
	T-3	U-D	1.0	1.4	0 ~ 4	"		

* When measured on a film-viewer of magnification 6.

When reproduced using a Sanei FR-201 visigraph with 500 cps galvanometers.

Magnification curves are shown on the next page.

Readings

(1) All earthquakes with maximum trace amplitude 0.5 mm or larger on the Z record measured on the $\times 6$ film-viewer are interpreted in this bulletin.

(2) All times are based on the Japanese Standard Time (JST).

JST = GMT + 9 hours.

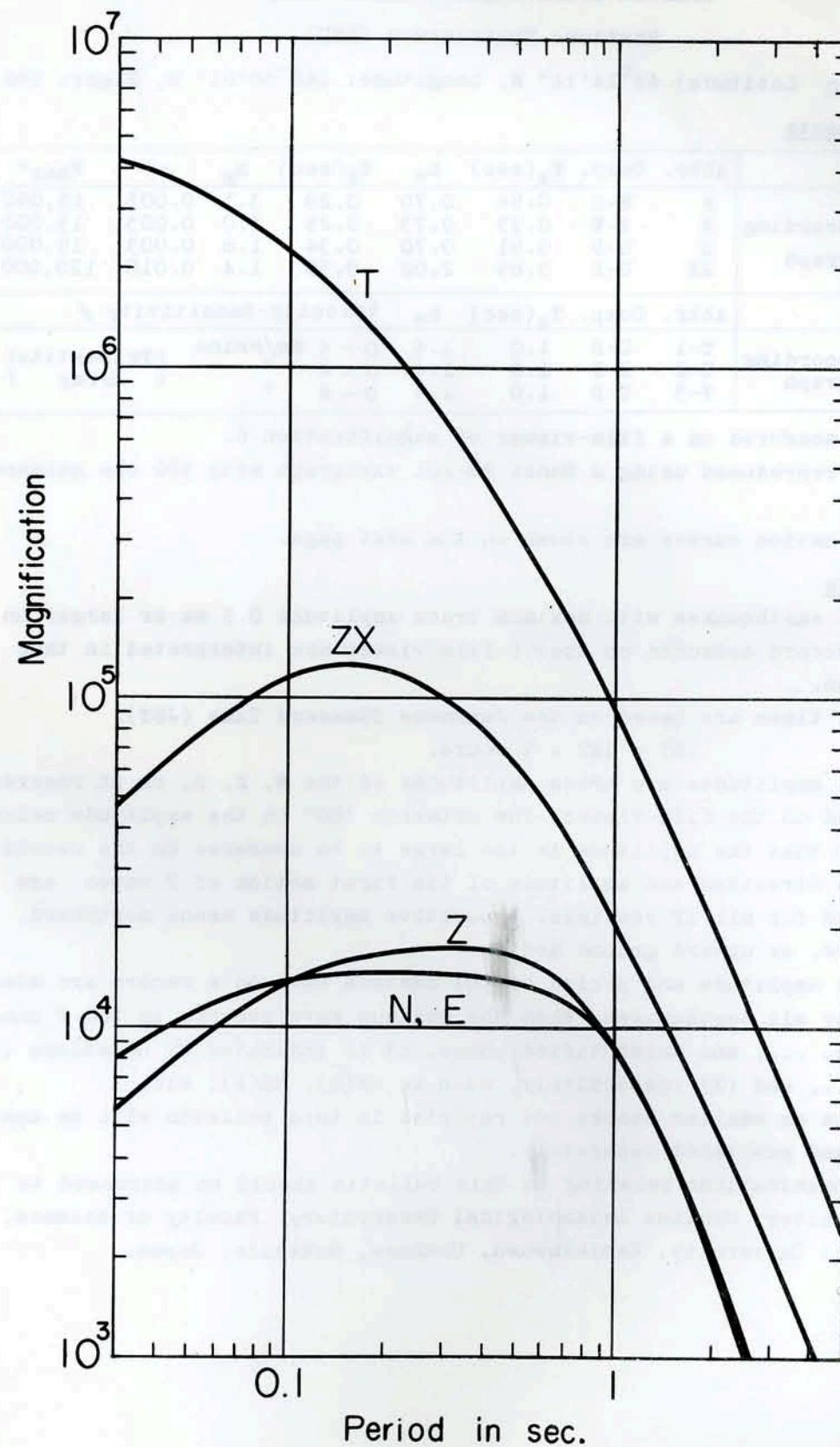
(3) All amplitudes are trace amplitudes of the N, E, Z, or ZX records measured on the film-viewer. The notation "SO" in the amplitude column denotes that the amplitude is too large to be measured on the record.

(4) The direction and amplitude of the first motion of P waves are measured for all iP readings. A positive amplitude means northward, eastward, or upward ground motion.

(5) The amplitude and period of the maximum wave on a record are measured for all earthquakes. When the maximum wave occurs in the P phase, S phase, ..., and unidentified phase, it is indicated by notations (P), (S), ..., and (X) respectively, such as MN(S), MZ(P), etc.

(6) Data on smaller shocks not reported in this bulletin will be analyzed and published separately.

(7) Communications relating to this bulletin should be addressed to the director, Urakawa Seismological Observatory, Faculty of Science, Hokkaido University, Kamikineusu, Urakawa, Hokkaido, Japan.



Kamikineusu, January 1968													
Date	Phase	Time(JST)			Amp.	Per.	Date	Phase	Time(JST)			Amp.	Per.
		h	m	s	mm	sec			h	m	s	mm	sec
1	ePZX	15	12	39.6	0.9	0.5	4	ePZX	11	38	18.2	5.6	0.9
	eSZX		13	53.1				eSZX		39	34.2		
	MZ(P)							eZN		39	45.9		
	MN(S)				1.4	0.6		MZ(X)				7.3	0.8
	ME(S)				0.5	0.7		MN(X)				5.4	0.9
	P-S: 1m 13.5s, P-F: 2m 20s										P-S: 1m 16.0s, P-F: 3m 35s		
2	ePZX	00	52	39.0	1.5	0.4	4	ePZX	12	24	04.9		
	eSN		53	20.4				eSZX		25	15.5		
	MZ(S)							MZ(S)				0.6	0.8
	MN(S)				2.5	0.3		MN(S)				0.8	0.8
	ME(E)				2.0	0.4		ME(S)				0.6	0.8
	P-S: 41.4s, P-F: 1m 35s										P-S: 1m 10.6s, P-F: 2m 20s		
2	ePZX	16	31	42.6	12.6	1.0	4	ePZX	14	55	27.8		
	eSN		32	57.1				eSN		55	47.5		
	iZN		33	16.0				MZ(S)				1.0	0.6
	MZ(X)				21.3	0.9		MN(S)				2.4	0.5
	MN(X)				25.7	1.0		ME(S)				1.6	0.5
	P-S: 1m 14.5s, P-F: 4m 25s										P-S: 19.7, P-F: 55s		
2	ePZX	20	46	42.1	6.0	0.6	4	ePZX	18	48	07.4		
	iSM		47	11.8				eX1ZX		48	15.7		
	MZ(S)				9.6	0.4		eX2ZX		48	28.5		
	MN(S)				5.9	0.6		eX3ZX		50	09.6		
	ME(S)							MZ(X1)				1.4	0.6
	P-S: 29.7s, P-F: 3m 10s										MN(X1)		
3	ePZX	22	07	51.3	0.5	0.7	4	ePZX	17	24	02.7		
	eSX		08	29.9				eSN		25	06.1		
	MZ(S)				1.0	0.4		MZ(S)				1.4	0.7
	MN(S)				0.4	0.3		MN(S)				2.8	0.5
	ME(S)							ME(S)				1.7	0.3
	P-S: 38.6s, P-F: 1m 10s										P-S: 1m 03.4s, P-F: 2m 40s		
4	ePZX	05	57	01.5	0.6	0.7	5	ePZX	23	45	33.1		
	eSZX		57	20.6				eSZ		45	55.6		
	MZ(S)				0.7	0.6		MZ(S)				0.8	0.6
	MN(S)				0.5	0.8		MN(S)				1.2	0.7
	ME(S)							ME(S)				0.8	0.7
	P-S: 19.1s, P-F: 1m 45s										P-S: 22.5s, P-F: 1m 35s		
4	ePZX	06	07	01.5	0.5	0.5	6	ePZ	06	05	54.7		
	eSZX		07	27.1				eSZ		06	21.7		
	MZ(S)				1.0	0.4		MZ(S)				0.5	1.1
	MN(S)				0.8	0.5		MN(S)				1.0	0.9
	ME(S)							ME(S)				0.7	1.1
	P-S: 25.6s, P-F: 1m 55s										P-S: 27.0s P-F: 1m 30s		
4	ePZX	10	04	08.6	6.1	0.8	6	ePZ	13	34	57.3		
	ePPN		09	21.0				eSZ		36	14.3		
	eSKSN		14	53.0				eXZ		36	45.3		
	MZ(P)				3.2	0.7		MZ(X)				0.5	1.1
	MN(P)				2.8	0.8		MN(X)				1.0	0.9
	ME(P)							ME(X)				0.7	1.1
	P-S: 1m 17.0s, P-F: 3m 10s										P-S: 1m 17.0s, P-F: 3m 10s		
7	ePZ	08	47	06.1	1.6	1.6							
	MZ(P)				1.0	1.3							
	MN(P)				1.1	1.0							
	ME(P)												

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		hh mm ss	mm	sec			hh mm ss	mm	sec
7	ePZ	15 ^h 13 ^m 24.5 ^s			10	iPZX	23 ^h 08 ^m 06.5 ^s	+1.6	
	iSN	13 34.3				esZX	08 11.4		
	MZ(S)	3.3	0.4			MZ(S)		0.8	0.4
	MN(S)	7.9	0.4			MN(S)		1.2	0.3
	ME(S)	6.6	0.5			ME(S)		1.2	0.4
	P-S: 09.8s, P-F: 1m 10s					P-S: 04.9s, P-F: 24s			
7	ePZ	16 43 47.3			11	iPZX	21 42 15.8	+8.0	
	iSZ	45 05.5				isZX	42 28.0		
	MZ(S)	4.4	0.6			MZ(S)		44.8	
	MN(S)	8.0	0.5			MNE(S)		S0	
	ME(S)	5.5	0.7			P-S: 12.2s, P-F: 3m 55s			
	P-S: 1m 18.2s, P-F: 3m 25s								
7	ePZ	20 14 34.3			12	iPZX	01 14 37.1	-0.8	
	eSZ	16 08.2				esZX	16 04.6		
	MZ(S)	1.4	0.7			MZ(S)		3.5	0.9
	MN(S)	1.9	0.9			MN(S)		6.0	0.8
	ME(S)	1.8	1.1			ME(S)		5.1	0.8
	P-S: 1m 33.9s					P-S: 1m 27.5s, P-F: 4m 10s			
8	ePZ	03 30 44.1			12	ePZX	03 10 33.5		
	eSZ	31 03.8				esZX	12 10.8		
	MZ(S)	3.5	1.6			MZ(S)		2.2	1.4
	MN(S)	3.4	1.4			MN(S)		3.5	1.8
	ME(S)	2.5	1.4			ME(S)		2.7	1.3
	P-S: 19.7s, P-F: 3m 20s					P-S: 1m 37.3s, P-F: 3m 45s			
8	ePZ	06 40 28.1			13	ePZX	11 30 10.7		
	eSZ	41 38.1				esZX	30 33.8		
	MZ(S)	2.5	0.9			MZ(S)		0.8	0.7
	MN(S)	4.8	0.6			MN(S)		1.7	0.6
	ME(S)	2.4	0.7			ME(S)		1.0	0.4
	P-S: 1m 10.0s, P-F: 3m 30s					P-S: 23.1s, P-F: 1m 40s			
8	ePZ	10 03 17.5			13	iPZX	13 30 55.3	-3.4	
	eSZ	04 37.0				isZN	31 48.7		
	MZ(S)	0.7	0.5			MZ(P)		4.7	0.7
	MN(S)	0.8	0.4			MN(S)		4.6	0.2
	ME(S)	0.5	0.5			ME(S)		3.0	0.7
	P-S: 19.5s, P-F: 2m 05s					P-S: 53.4s, P-F: 2m 40s			
8	ePZX	22 52 43.4			13	ePZX	16 09 02.1		
	esZX	54 18.3				esZX	21 58		
	MZ(S)	4.2	0.5			MZ(P)		0.8	1.5
	MN(S)	7.8	0.8			MN(P)		0.8	1.4
	ME(S)	5.1	0.8			ME(P)		0.6	1.0
	P-S: 1m 34.9s, P-F: 4m 20s					P-S: 16.6s, P-F: 48s			
10	ePZX	00 39 38.5			14	ePZX	01 26 32.4		
	esZX	40 38.7				ixZX	27 22.4		
	MZ(S)	1.4	0.7			MZ(P)		3.1	1.4
	MN(S)	2.0	0.3			MN(P)		1.9	1.0
	ME(S)	1.4	0.7			ME(P)		1.7	0.9
	P-S: 1m 00.2s, P-F: 3m 15s					P-S: 2m 12s			
10	iPZ	04 20 20.9	+1.2		14	iPZX	05 47 45.0	-4.2	
	eSN	20 30.7				isZN	48 02.7		
	MZ(P)	4.5	0.5			MZ(S)		>25	
	MN(S)	4.4	0.3			MN(S)		>30	
	ME(S)	2.2	0.3			ME(S)		>25	
	P-S: 09.8s, P-F: 1m 25s					P-S: 1m 02.5s, P-F: 2m 20s			

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		hh mm ss	mm	sec			hh mm ss	mm	sec
14	ePZX	12 ^h 45 ^m 03.9 ^s			17	ePZX	17 ^h 06 ^m 53.2 ^s		
	esZX	45 26.2				eSZX	08 17		
	MZ(S)		0.7	0.7		eXZX	08 36.6		
	MN(S)		1.8	0.4		MZ(X)		1.2	0.9
	ME(S)		1.1	0.5		MN(X)		1.6	0.7
	P-S: 22.3s, P-F: 47s					ME(X)		1.3	0.8
	P-S: 1m 24s, P-F: 3m 20s								
14	iPZX	15 39 05.3	+0.4		17	ePZX	21 21 23.8		
	esZX	39 30.7				eSZX	21 44.5		
	MZ(S)		0.9	0.6		MZ(S)		0.7	0.8
	MN(S)		1.1	0.6		MN(S)		0.9	0.3
	ME(S)		1.5	0.7		ME(S)		0.7	0.4
	P-S: 25.4s, P-F: 1m 25s					P-S: 20.7s, P-F: 1m 35s			
14	ePZX	21 04 02.1			18	ePZX	02 57 54.2		
	esZX	04 20.4				eSZX	59 08.1		
	MZ(S)		0.9	0.2		MZ(S)		1.2	0.7
	MN(S)		1.9	0.4		MN(S)		1.2	0.5
	ME(S)		1.3	0.4		ME(S)		1.0	0.6
	P-S: 18.3s, P-F: 1m 10s					P-S: 1m 13.9s, P-F: 3m 05s			
14	ePZX	21 34 06.2			18	iPZX	03 58 29.4	+1.6	
	MZ(P)		3.1	0.7		isZX	58 35.5		
	MN(P)		2.1	0.7		MZ(S)		0.8	0.4
	ME(P)		1.7	0.6		MN(S)		2.5	0.4
	**					ME(S)		1.4	0.2
15	ePZX	23 13 24.0				P-S: 06.1s, P-F: 23s			
	esZX	13 45.9							
	MZ(S)		0.5	0.5					
	MN(S)		0.8	0.4					
	ME(S)		0.5	0.3					
	P-S: 21.0s, P-F: 1m 10s								
16	ePZX	04 38 44			18	ePZX	05 43 04.4		
	MZ(P)		0.5	1.1		eSZX	44 07.7		
	MN(P)		0.5	1.2		MZ(S)		0.6	0.7
	ME(P)		0.4	1.0		MN(S)		0.9	0.8
	P-S: 1m 03.3s, P-F: 2m 10s					ME(S)		0.6	0.8
16	iPZX	17 04 55.6	+0.6		18	ePZX	11 53 53.9		
	isZX	05 12.2				eXZX	54 06.5		
	MZ(S)		0.9	0.5		eSN	55 06.6		
	MN(S)		2.3	0.3		MZ(S)		6.6	0.9
	ME(S)		1.0	0.3		MN(S)		6.1	0.8

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Date	Phase	Time(JST)			Amp.	Per.	Date	Phase	Time(JST)			Amp.	Per.		
19	ePZ	12	41	32.6	s	mm	sec	21	iPZ	06	33	03.6	s	-2.6	mm
	iSN	42	05.1						MZ(P)				0.7		
	MZ(S)			0.8		0.4			MN(P)				1.4		
	MN(S)			3.0		0.3			ME(P)				1.2		
	ME(S)			1.1		0.3							1.4		
	P-S: 32.5s, P-F: 1m15s							21	ePZ	13	28	10.4			
19	ePZ	15	13	57.3					eSN	29	41.3				
	MZ(P)				1.2	1.9			MZ(S)				1.6	0.7	
	MN(P)				1.1	1.9			MN(S)				1.9	0.7	
	ME(P)				0.8	1.5			ME(S)				1.4	0.7	
	P-S: 1m 30.9s, P-F: 3m 30s														
20	ePZ	00	54	18.2				22	ePZ	11	28	16.6			
	eSN	55	14.2						eSZ	30	28.2				
	eXN	55	43.9						MZ(S)				0.7	0.7	
	MZ(X)				3.6	0.8			MN(S)				0.8	0.6	
	MN(X)				6.7	0.8			ME(S)				0.5	0.6	
	ME(X)				3.9	0.7			P-S: 2m 11.6s, P-F: 3m 35s						
20	ePZ	01	06	12.9				24	ePZX	22	40	20.4			
	eSN	07	07.8						eXN	40	41.3				
	eXN	07	32.0						MZ(X)				1.0	0.7	
	MZ(X)				0.8	1.0			MN(X)				1.3	1.0	
	MN(X)				2.9	1.0			ME(X)				1.0	1.1	
	ME(X)				1.9	1.0			P-S: 54.9s, P-F: 3m 20s						
20	iPZ	03	26	26.3	-1.6	0.8		25	iPZX	04	56	44.4	-3.0		
	MZ(P)				1.5	1.5			iSZX	56	51.4				
	MN(P)				0.9	1.5			MZ(S)				1.9	0.6	
	ME(P)				0.7	1.3			MN(S)				3.6	0.5	
	P-S: 07.0s, P-F: 1m 25s								ME(S)				2.0	0.6	
20	ePZ	08	02	53.9				26	ePZX	13	.55	12.5			
	iSN	03	06.2						eZXZ	55	50.2				
	MZ(S)				6.1	0.6			MZ(X)				0.8	1.2	
	MN(S)				9.2	0.6			MN(X)				0.7	1.4	
	ME(S)				4.6	0.5			ME(X)				0.6	1.2	
	P-S: 12.3s, P-F: 1m 25s								P-S: 12.3s, P-F: 1m 25s						
20	iPZX	09	45	29.0	-1.6			26	iPZX	15	44	01.8	+2.2		
	iSN	45	32.1						iSN	44	13.3				
	MZ(S)				0.7	0.4			MZ(S)				1.6	0.5	
	MN(S)				2.2	0.3			MN(S)				4.9	0.3	
	ME(S)				2.0	0.2			ME(S)				2.3	0.2	
	P-S: 03.1s, P-F: 28s								P-S: 11.5s, P-F: 45s						
21	ePZ	00	14	45.3				26	ePZX	16	57	04.2			
	eSZ		16	18.0					eXN	58	38				
	MZ(S)				0.7	1.1			MZ(P)				1.1	0.9	
	MN(S)				0.9	1.0			MN(P)				1.1	1.0	
	ME(S)				0.7	1.4			ME(P)				0.8	1.2	
	P-S: 1m 32.7s, P-F: 3m20s								P-S: 1m 32.7s, P-F: 3m20s						
21	ePZ	00	46	23.4				27	ePZX	13	08	47.9			
	iSN	46	36.4						iSZX	08	54.1				
	MZ(S)				1.4	0.5			MZ(P)				0.6	0.1	
	MN(S)				4.6	0.6			MN(S)				1.0	0.2	
	ME(S)				2.3	0.6			ME(S)				0.8	0.2	
	P-S: 06.2s, P-F: 19s								P-S: 06.2s, P-F: 19s						

* Observation was interrupted
from 16h 58m, January 22 to 17h
03m, January 24.

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Date	Phase	Time(JST)	Amp.	Per.		Date	Phase	Time(JST)	Amp.	Per.	
		20 ^h 07 ^m 13 ^s	mm	sec				21 ^h 08 ^m 01.2 ^s	mm	sec	
29	ePZX	20 07 13				29	ePZX	21 08 01.2			
	eSN	07 48.2					eSZX	08 47.5			
	MZ(S)		3.1	1.3			MZ(S)		16.4	1.0	
	MN(S)		5.2	1.0			MN(S)		26.5	1.0	
	ME(S)		3.1	1.3			ME(S)		18.2	1.6	
	P-S: 35s						P-S: 46.3s,				
								* cf. page 36			
29	ePZ	20 24 04.2				29	ePZX	21 28 34.4			
	eSN	24 42.4					eSN	29 13.1			
	MZ(S)		1.8	1.1			MZ(S)		0.8	1.0	
	MN(S)		3.5	0.7			MN(S)		1.2	0.9	
	ME(S)		2.1	0.9			ME(S)		0.8	1.3	
	P-S: 38.2s						P-S: 38.7s				
29	ePZX	20 26 16.1				29	ePZX	21 39 15.2			
	eSN	26 57.4					eSN	39 52.7			
	MZ(S)		5.2	0.9			MZ(S)		0.7	1.0	
	MN(S)		9.5	1.1			MN(S)		1.0	0.6	
	ME(S)		6.3	1.6			ME(S)		0.8	0.6	
	P-S: 41.3s,						P-S: 37.5s				
29	eSN	20 28 59				29	ePZX	21 41 05.7			
	MZ(S)		3.0	1.1			eSN	41 44.2			
	MN(S)		5.1	0.9			MZ(S)		3.1	0.9	
	ME(S)		5.3	1.2			MN(S)		4.5	0.9	
	P-S: 38.0s,						ME(S)		2.9	0.8	
29	ePZ	20 29 54.0				29	ePZX	21 54 34.2			
	eSZ	30 32.0					eSN	55 10.7			
	MZ(S)		5.5	0.7			MZ(S)		1.6	1.0	
	MN(S)		10.8	0.7			MN(S)		2.3	0.7	
	ME(S)		7.5	0.6			ME(S)		1.9	0.9	
	P-S: 38.5s						P-S: 40.1s				
29	ePZX	20 37 23.0				29	ePZX	21 41 05.7			
	eSN	38 04.1					eSN	41 44.2			
	MZ(S)		14.4	0.7			MZ(S)		3.1	0.9	
	MN(S)		33.7	0.7			MN(S)		4.5	0.9	
	ME(S)		16.9	1.0			ME(S)		2.9	0.8	
	P-S: 41.ls,						P-S: 36.5s				
29	ePZX	20 57 50.4				29	ePZX	22 08 13.5			
	MZNE(S)		SO				eSZX	08 47.1			
	P-S: 33.6s						MZ(S)		0.9	1.0	
29	ePZX	20 56 30.6				29	ePZX	22 28 20.9			
	eSN	57 10.9					eSN	29 02.7			
	MZ(S)		1.0	0.8			MZ(S)		0.8	1.0	
	MN(S)		1.5	0.9			MN(S)		1.0	0.7	
	ME(S)		1.4	0.7			ME(S)		0.9	0.6	
	P-S: 40.3s,						P-S: 41.8s				
29	ePZ	20 57 50.4				29	ePZX	22 31 15.7			
	eSN	58 26.4					eSN	31 54.6			
	MZ(S)		2.1	0.9			MZ(S)		0.6	0.9	
	MN(S)		3.7	0.8			MN(S)		0.8	0.8	
	ME(S)		3.0	0.9			ME(S)		0.6	1.3	
	P-S: 36.0s						P-S: 38.9s				
29	ePZ	21 05 44.4				29	ePZX	22 52 36.4			
	eSN	06 30.9					eSN	53 20.0			
	MZ(S)		1.5	1.1			MZ(S)		5.1	1.1	
	MN(S)		2.5	0.6			MN(S)		8.8	0.9	
	ME(S)		2.1	0.9			ME(S)		5.9	0.8	
	P-S: 46.5s						P-S: 43.6s				

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Date	Phase	Time(JST)	Amp.	Per.		Date	Phase	Time(JST)	Amp.	Per.	
		23 ^h 02 ^m 27.4 ^s	mm	sec				23 ^h 59 ^m 36.6 ^s	mm	sec	
29	ePZX	23 02 27.4				29	ePZX	23 59 36.6			
	iXLZX	02 29.8					eSN	00 00 18.4			
	iSN	03 06.8					MZ(S)		2.9	0.8	
	eX2N	03 21.7					MN(S)		8.0	0.8	
	MZ(X2)		12.4	0.9			ME(S)		4.5		
	MN(X2)		17.9	0.7			P-S: 41.8s				
	ME(X2)		9.3	1.0							
	P-S: 39.4s					30	ePZX	00 13 39.5			
							eSN	14 18.2			
							MZ(S)		0.6	0.5	
							MN(S)		1.3	0.6	
							ME(S)		0.8	0.6	
	P-S: 38.7s						P-S: 38.7s				
	P-S: 37.7s					30	ePZX	00 17 33.4			
							eSN	18 13.0			
							MZ(S)		0.9	0.8	
							MN(S)		1.9	0.8	
							ME(S)		1.0	0.9	
	P-S: 39.6s						P-S: 42.2s				
	P-S: 40.1s					30	ePZX	00 49 05.4			
							iXLZX	49 07.3			
							eSN	49 47.6			
							eX2N	50 05.2			
							MZ(X2)		1.4	0.8	
							MN(X2)		2.4	0.9	
							ME(X2)		1.8	0.9	
	P-S: 41.4s						P-S: 42.2s				
	P-S: 36.5s					29	ePZX	23 32 37.5			
							eSN	33 17.0			
							MZ(S)		2.9	0.9	
							MN(S)				

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		07 ^h 42 ^m 38 ^s	mm	sec		ePZX	10 ^h 49 ^m 23 ^s	mm	sec
30	eSN	07 42 38	1.9	0.7	30	iSN	10 49 23	50	08.6
	MZ(S)		2.9	0.8		MZ(S)			
	MN(S)		3.4	0.9		MNE(S)		36.7	
	ME(S)					SO			
						P-S: 46s			
30	ePZX	08 09 53.6			30	ePZX	11 08 15.1		
	eSN	10 30.3	1.3	1.1		eSN	08 50.2		
	MZ(S)		2.0	0.7		MZ(S)		0.5	0.7
	MN(S)		1.8	0.9		MN(S)		1.3	0.8
	ME(S)					ME(S)		1.1	0.8
						P-S: 36.7s			
						P-S: 35.1s			
30	ePZX	09 11 24.1			30	ePZX	11 13 16.7		
	iXZX	11 26.9				eSN	13 58.6		
	eSN	12 04.0				MZ(S)		1.1	0.8
	MZ(S)		9.9	1.0		MN(S)		1.7	0.6
	MN(S)		14.5	0.9		ME(S)		1.0	0.9
	ME(S)		10.2	0.7					
						P-S: 41.9s			
30	ePZX	09 31 30.8			30	ePZX	11 21 27.8		
	eSN	32 10.9	0.6	0.9		iSN	22 12.6		
	MZ(S)		0.8	0.8		MZ(S)		>25	
	MN(S)		0.6	0.9		MN(S)		>45	
	ME(S)					ME(S)		44.5	1.1
						P-S: 44.8s			
30	ePZX	09 33 21			30	eXZX	11 25 08		
	eSN	34 01.9	4.7	0.7		MZ(X)		2.8	1.2
	MZ(S)		8.5	0.7		MN(X)		4.4	1.5
	MN(S)		5.9	0.7		ME(X)		2.7	1.2
	ME(S)								
						P-S: 41s			
30	ePZX	09 37 37.2			30	ePZX	11 26 15.2		
	eSN	38 14	0.6	1.0		MZ(S)		3.7	0.7
	MZ(S)		0.5	0.8		MN(S)		7.0	0.9
	MN(S)		0.5	1.2		ME(S)		5.8	0.8
	ME(S)								
						P-S: 43.0s			
30	ePZX	09 47 05.5			30	ePZX	11 28 36		
	eSN	47 47.3	0.5	0.9		eSN	29 23		
	MZ(S)		1.2	0.8		MZ(S)		3.5	1.0
	MN(S)		0.9	0.8		MN(S)		4.7	0.7
	ME(S)					ME(S)		3.2	0.9
						P-S: 47s			
30	ePZX	10 31 03.8			30	ePZX	11 39 08.0		
	eSN	31 45.0				iSN	39 53.5		
	MZNE(S)					MZ(S)		>25	
						MNE(S)		SO	
						P-S: 45.5s			
30	ePZX	10 45 57			30	ePZX	11 43 22.0		
	eSN	46 34.7	0.8	1.1		eSN	44 07.9		
	MZ(S)		1.5	0.7		eXN	44 23.2		
	MN(S)		1.1	0.8		MZ(S)		>25	
	ME(S)					MN(S)		>30	
						ME(S)		>20	
						P-S: 41.9s			
30	ePZX	11 54 45.2			30	ePZX	11 54 45.2		
	eSN	55 27.3				eSN	55 27.3		
						P-S: 42.1s			

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		11 ^h 58 ^m 51.3 ^s	mm	sec		ePZX	13 ^h 03 ^m 59.6 ^s	mm	sec
30	ePZX	11 59 32.7			30	iXZ	03 02.0		
	eSN					iSN	03 42.1		
	MZ(P)					MZ(S)		>12.5	
	MN(S)					MN(S)		>20	
	ME(S)					ME(S)		>20	
						P-S: 41.4s			
30	ePZX	12 02 35.5			30	ePZX	13 06 59.2		
	MZNE(S)					eSN	07 39.4		
						MZ(S)		0.7	0.5
						MN(S)		1.2	0.6
						ME(S)		0.8	0.7
						P-S: 42.5s			
30	eSN	12 22 24.5			30	ePZX	13 11 24.1		
	MZ(S)					iXZX	11 26.9		
	MN(S)					iSN	12 10.3		
	ME(S)					eX2N	12 22.8		
						MZNE(X2)			
						SO			
						P-S: 40.2s			
30	eXN	12 23 16.5			30	ePZX	13 34 26.5		
	MZ(X)					eX1ZX	34 28.5		
	MN(X)					eSN	35 10.9		
	ME(X)					eX2N	35 34.1		
						MZ(X2)		2.4	1.2
						MN(X2)		2.6	0.8
						ME(X2)		2.5	1.1
						P-S: 44.4s			
30	ePZ	12 28 06.5			30	ePZX	13 58 32.1		
	eSN	28 49				eSN	59 14.5		
	MZ(S)					MZ(S)		0.6	0.6
	MN(S)					MN(S)		1.0	0.7
	ME(S)					ME(S)		0.8	0.7
						P-S: 42.8s			
30	ePZX	12 35 32.2			30	ePZX	13 59 42		
	eSN	36 16				eSN	14 00 22.9		
	MZ(S)					MZ(S)		2.4	1.2
	MN(S)					MN(S)		2.6	0.8
	ME(S)					ME(S)		1.0	0.9
						P-S: 44s			
30	iPZX	12 53							

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		hh mm ss	mm	sec			hh mm ss	mm	sec
30	ePZX	14 28 18.7			30	ePZX	17 47 48.5		
	eSN	28 57.5				eSN	48 32.3		
	MZ(S)		1.6	1.0		MZ(S)		0.6	0.9
	MN(S)		3.0	1.0		MN(S)		1.2	0.9
	ME(S)		2.2	1.3		ME(S)		0.6	0.9
	P-S: 38.8s					P-S: 43.8s			
30	ePZX	14 35 57			30	ePZX	18 07 16.6		
	eSN	36 46.5				eSN	07 54.9		
	MZ(S)		0.6	1.0		MZ(S)		7.2	1.1
	MN(S)		1.3	0.7		MN(S)		11.1	1.3
	ME(S)		1.0	0.8		ME(S)		11.3	1.5
	P-S: 50s					P-S: 38.3s			
30	ePZX	14 48 10.5			30	ePZX	18 14 40.7		
	eSN	48 52.4				eSN	15 27.5		
	MZ(S)		1.3	0.7		MZ(S)		2.4	0.7
	MN(S)		2.6	0.5		MN(S)		3.8	0.8
	ME(S)		1.3	0.8		ME(S)		3.0	0.8
	P-S: 41.9s					P-S: 46.8s			
30	ePZX	15 09 27.7			30	ePZX	19 57 33.8		
	iSN	10 10.6				eSZX	58 11.1		
	MZNE(S)					eZN	58 28.7		
	P-S: 42.9s					MZ(X)		0.9	1.1
						MN(X)		2.0	0.8
						ME(X)		1.0	0.7
30	ePZX	15 13 40.1				P-S: 37.3s			
	eSN	14 24.4							
	MZ(S)		0.6	1.1					
	MN(S)		0.7	0.8					
	ME(S)		0.6	1.0					
	P-S: 44.3s								
30	ePZX	16 07 16.9							
	iXLZX	07 19.3							
	eSN	08 01.0							
	eX2N	08 24.8							
	MZ(S)		2.7	0.5					
	MN(X2)		4.0	1.0					
	ME(X2)		2.4	1.1					
	P-S: 44.1s								
30	ePZX	16 28 26.9							
	eSN	29 05.6							
	eZN	29 30.3							
	MZ(X)		4.7	1.1					
	MN(X)		7.3	1.3					
	ME(X)		5.1	1.2					
	P-S: 38.7s								
30	ePZX	16 43 22.6							
	iZXZ	43 25.3							
	eSN	44 14.4							
	MZ(S)		6.3	0.8					
	MN(S)		4.5	0.7					
	ME(S)		6.3	0.8					
	P-S: 51.8s								
30	ePZX	17 36 35.4							
	eSN	37 15.7							
	MZ(S)		2.9	0.9					
	MN(S)		7.0	0.9					
	ME(S)		4.3	0.8					
	P-S: 40.3s								

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		hh mm ss	mm	sec			hh mm ss	mm	sec
30	ePZX	23 00 24.6			31	ePZX	01 58 42.8		
	iXLZX	00 27.3				iXLZX	58 45.6		
	eSN	01 03.8				iSN	59 27.9		
	eX2N	01 18.3				eX2N	59 46.9		
	MZ(X2)					MZ(X1)			
	MN(X2)					MN(X2)			
	ME(X2)					ME(X2)			
	P-S: 39.2s					P-S: 45.1s			
30	ePZX	23 10 06.4			31	ePZX	02 18 25.2		
	iZXZ	10 09.2				eSN	19 06.5		
	eSN	10 46.7				eZN	19 20.1		
	MZ(S)					MZ(X)			
	MN(S)					MN(X)			
	ME(S)					ME(X)			
	P-S: 40.3s					P-S: 41.3s			
30	ePZX	23 32 08.9			31	ePZX	03 21 50.7		
	eSN	32 51.8				iZXZ	21 52.6		
	MZ(S)					eSN	22 35.0		
	MN(S)					MZ(S)			
	ME(S)					MN(S)			
	P-S: 42.9s					ME(S)			
31	ePZX	00 05 07.7			31	eSN	03 23 59.3		
	iZXZ	05 09.6				MZ(S)			
	eSN	05 51.9				MN(S)			
	MZ(S)					ME(S)			
	MN(S)					P-S: 44.3s			
	ME(S)								
	P-S: 44.2s								
31	ePZX	00 17 09.3			31	iPZX	03 35 52.1	+1.2	
	eSN	17 55.8				iXLZX	35 54.8		
	MZ(S)					eSN	36 34.2		
	MN(S)					iX2N	36 49.4		
	ME(S)					MZ(X2)			
	P-S: 46.5s,					MN(X2)			
31	ePZX	00 24 09.3				ME(X2)			
	eSN	24 49.5				P-S: 42.1s			
	MZ(S)								
	MN(S)								
	ME(S)								
	P-S: 40.2s								
31	ePZX	00 38 10.8			31	ePZX	03 51 12.3		
	iXLZX	38 13.4				iZXZ	51 14.2		
	iSN	38 54.3				eSN	51 56.4		
	eX2N	39 13				MZ(S)			
	MZ(X1)					MN(S)			
	MN(X2)					ME(S)			
	ME(X2)					P-S: 40.7s			
	P-S: 43.5s								
31	ePZX	01 47 21.9			31	ePZX	04 43 24.5		
	iZXZ	47 24.1				eSN	44 05.2		
	eSN	48 05.9				MZ(S)			
	MZ(S)					MN(S)			
	MN(S)					ME(S)			
</									

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		mm	sec				mm	sec	
31	ePZX	06 ^h 23 ^m 03.0 ^s			31	ePZX	12 ^h 07 ^m 18.8 ^s		
	eSN	23	45.9			eSN	08	11.7	
MZ(S)		1.1	0.8		MZ(S)		0.8	0.8	
MN(S)		1.5	0.8		MN(S)		1.7	0.7	
ME(S)		1.2	1.0		ME(S)		0.9	0.8	
P-S: 42.9s					P-S: 52.9s				

31	ePZX	06	55	23.4	31	ePZX	12	39	51.9
	eSN	56	00.4			eSN	40	35.1	
MZ(S)		1.1	0.8		MZ(S)		0.6	0.8	
MN(S)		1.8	0.6		MN(S)		1.2	1.0	
ME(S)		1.1	0.7		ME(S)		0.6	0.9	
P-S: 37.0s					P-S: 43.2s				

31	ePZX	07	50	51.1	31	ePZX	13	22	12.8
	eSN	51	32.4		iX1ZX	22	15.0		
iXN		51	42.9		eSN	22	55.3		
MZ(X)		3.0	1.1		eX2N	23	21.4		
MN(X)		6.3	0.8		MZ(S)		1.4	0.6	
ME(X)		4.2	1.1		MN(X2)		3.4	0.9	
P-S: 41.3s					P-S: 42.5s				

31	ePZX	08	55	12.0	31	ePZX	13	31	33.6
	iXZX	55	13.9		eSN	32	11.1		
eSN		55	57.3		MZ(S)		1.3	0.8	
MZ(S)		2.5	0.8		MN(S)		2.7	0.9	
MN(S)		4.0	1.0		ME(S)		2.0	0.9	
ME(S)		3.3	0.8	P-S: 37.5s					

31	ePZX	09	21	00.3	31	ePZX	13	56	38.3
	eSN	21	40.6		iX1ZX	56	41.1		
MZ(S)		2.0	0.8		iSN	57	23.9		
MN(S)		2.9	1.1		iX2N	57	44.8		
ME(S)		2.2	1.4		MZ(X2)		18.5	1.2	
P-S: 40.3s					MN(X2)		25.9	1.0	
P-S: 45.6s					ME(X2)		24.0	1.0	

31	ePZX	09	32	45.4	31	ePZX	14	31	35.1
	iXZX	32	48.2		eSN	32	19.7		
iSN		33	33.9		MZ(S)		0.8	1.0	
MZ(S)		2.5	1.2		MN(S)		1.2	0.7	
MN(S)		4.1	1.4		ME(S)		0.7	1.1	
ME(S)		2.8	1.4	P-S: 44.6s					

31	ePZX	10	07	50.0	31	ePZX	14	48	57.4
	eSN	08	31.1		eSN	49	41.0		
iXN		08	46.9		MZ(S)		0.6	0.9	
MZ(X)		3.6	1.0		MN(S)		1.5	0.9	
MN(X)		8.1	0.9		ME(S)		0.8	0.9	
ME(X)		4.8	0.8	P-S: 43.6s					

31	ePZX	11	34	01.6	31	ePZX	15	22	34.3
	eSN	34	46.4		iX1ZX	22	37.2		
MZ(S)		0.8	1.1		iX2ZX	22	45.4		
MN(S)		0.9	0.8		eSN	23	14.5		
ME(S)		0.8	1.2		iX3N	23	28.3		
P-S: 44.8s					MZ(X3)		5.3	0.7	
P-S: 40.2s					MN(X3)		12.3	1.2	
P-S: 39.0s					ME(X3)		6.2	1.3	

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		mm	sec				mm	sec	
31	ePZX	15 ^h 42 ^m 46.5 ^s			31	ePZX	20 ^h 09 ^m 09.5 ^s		
	eSN	43	21.7			eSN	09	45.1	
MZ(S)		2.4	0.6		MZ(S)		1.3	0.6	
MN(S)		6.4	0.8		MN(S)		3.5	0.7	
ME(S)		3.2	1.0		ME(S)		1.8	0.9	
P-S: 35.7s					P-S: 35.6s				

31	ePZX</

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		06 ^h 59 ^m 19.7 ^s	-1.6	mm sec		ePZX	10 ^h 22 ^m 25.5 ^s	mm	sec
1	iPZX	06 00 04.4			1	ePZX	10 23 03.7		
	eSN	07 00 44.6				MZ(S)		1.7	1.1
	eX1N	00 44.6	7.0	0.7		MN(S)		2.8	1.0
	MZ(P)					ME(S)		2.2	0.9
	MN(X1)	9.5	1.4						
	ME(S)	7.1	1.1						
						P-S: 38.2s			
						P-S: 44.7s			
1	ePZX	07 05 11.2			1	ePZX	11 59 08.8		
	eSN	06 53.5				eSN	59 48.6		
	MZ(S)		1.1	1.0		MZ(S)		0.7	0.8
	MN(S)	2.0	1.0			MN(S)		1.4	0.6
	ME(S)	1.3	0.7			ME(S)		0.9	0.7
						P-S: 39.8s			
						P-S: 42.3s			
1	ePZX	07 49 39.4			1	ePZX	15 57 15.9		
	eSN	50 20.0				eSN	57 59.9		
	MZ(S)		1.9	0.8		MZ(S)		0.7	0.9
	MN(S)	2.9	0.7			MN(S)		1.3	0.9
	ME(S)	2.2	0.7			ME(S)		1.1	1.2
						P-S: 44.0s			
						P-S: 40.6s			
1	ePZX	07 54 44.3			1	ePZX	16 00 45.4		
	iXLZX	54 46.8				eSN	01 18.7		
	eSN	55 22.8				MZ(S)		5.0	0.9
	iX2N	55 36.0	2.7	0.9		MN(S)		13.3	0.8
	MZ(X2)		5.4	0.9		ME(S)		6.8	0.8
	MN(X2)		4.6	0.8					
	ME(X2)								
						P-S: 33.3s			
						P-S: 51.7s			
1	ePZX	08 05 31.1			1	ePZX	17 51 33.1		
	iZXZ	05 33.2				eSN	12.8		
	eSN	06 12.5				MZ(S)		0.7	0.8
	MZ(S)		4.2	0.9		MN(S)		1.2	0.7
	MN(S)	6.0	0.7			ME(S)		1.3	0.8
	ME(S)	4.5	0.6						
						P-S: 39.7s			
						P-S: 41.4s			
1	ePZX	08 44 40.9			1	ePZX	18 41 05.9		
	eSN	45 19.5				eSN	41 46.7		
	MZ(S)		0.7	1.0		MZ(P)		1.6	0.5
	MN(S)	1.2	0.8			MN(S)		3.4	0.9
	ME(S)	0.8	0.8			ME(S)		1.3	0.8
						P-S: 40.8s			
						P-S: 38.6s			
1	ePZX	09 20 32.2			1	ePZX	19 19 39.7		
	eSN	21 10.5	0.8	1.3		eSN	20 18.2		
	MZ(S)		1.5	1.0		MZ(S)		2.3	0.9
	MN(S)	1.2	1.0			MN(S)		3.2	0.8
	ME(S)	1.2	1.2			ME(S)		2.8	0.9
						P-S: 38.5s			
						P-S: 40.9s			
1	ePZX	09 46 09.3			1	ePZX	19 22 11.6		
	eSN	46 51.9				eSN	22 52.7		
	MZ(S)		3.8	0.8		MZ(S)		2.3	0.9
	MN(S)	6.2	1.0			MN(S)		4.1	1.0
	ME(S)	6.3	0.7			ME(S)		3.2	0.8
						P-S: 41.1s			
						P-S: 42.6s			
1	ePZX	21 25 44.4			1	ePZX	21 26 25.5		
	eSN								
	MZ(S)					MZ(S)		1.2	0.9
	MN(S)					MN(S)		2.7	0.7
	ME(S)					ME(S)		1.4	1.0
						P-S: 41.1s			

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		21 ^h 48 ^m 11.1 ^s	SO			iPZX	17 ^h 11 ^m 07.2 ^s	-0.6	
1	MZNE(S)				2	iS ZX	11 39.6		
						MZ(S)		1.7	1.1
						MN(S)		3.0	0.6
						ME(S)		2.5	0.6
						P-S: 32.4s			
						P-S: 49.2s			
2	ePZX	01 30 09.1			2	ePZX	22 28 21.6		
	eSN	30 53.1				eSN	29 10.8		
	MZ(S)		0.5	0.9		MZ(S)		0.9	0.7
	MN(S)		0.9	0.9		MN(S)		1.2	0.9
	ME(S)		0.5	0.9		ME(S)		1.0	0.7
						P-S: 45.2s			
						P-S: 39.7s			
2	ePZX	03 53 43.6			3	ePZX	00 02 00.3		
	eSZ X	54 28.8				eSN	02 39.9		
	MZ(S)		4.0	0.7		MZ(S)		6.0	1.0
	MN(S)		6.1	0.7		MN(S)		16.1	0.8
	ME(S)		5.2	1.0		ME(S)		7.6	0.9
						P-S: 39.6s			
						P-S: 39.8s			
3	ePZX	04 02 58.5			3	ePZX	00 37 45.1		

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		hh mm ss	mm	sec			hh mm ss	mm	sec
3	ePZX	11 48 43.6			4	ePZX	02 46 51.1		
	eSN	49 27.7				eSZX	47 10.4		
	MZ(S)	0.5	0.7			MZ(S)		1.7	0.6
	MN(S)	0.7	0.8			MN(S)		3.1	0.6
	ME(S)	0.5	0.8			ME(S)		1.8	0.8
	P-S: 44.1s					P-S: 19.3s, P-F: 1m 20s			
3	ePZX	12 28 13.7			4	ePZX	03 45 44.9		
	eSN	29 44.5				eSN	46 28.7		
	MZNE(S)					MZ(S)		1.0	0.7
	P-S: 1m 30.8s					MN(S)		2.0	0.8
						ME(S)		0.9	0.9
	P-S: 43.8s					P-S: 41.5s			
3	ePZX	16 10 21.6			4	ePZX	04 54 43.6		
	eSZX	11 06.5				eSZX	55 12.1		
	MZ(S)	1.4	1.0			MZ(S)		1.3	0.7
	MN(S)	2.9	0.8			MN(S)		1.8	0.7
	ME(S)	1.3	1.0			ME(S)		2.1	0.6
	P-S: 44.9s					P-S: 40.0s			
3	ePZX	19 00 58.9			4	ePZX	05 04 16.4		
	eSN	01 40.2				eSN	04 43.8		
	MZ(S)	2.7	1.0			MZ(S)		0.6	0.5
	MN(S)	4.0	1.2			MN(S)		0.9	0.4
	ME(S)	2.6	0.8			ME(S)		0.6	0.8
	P-S: 41.3s					P-S: 41.8s			
3	ePZX	20 17 57.4			4	ePZX	14 08 58.3		
	eSN	18 40.1				iX1ZX	09 01.2		
	MZ(S)	0.5	1.1			eSN	09 42.2		
	MN(S)	0.8	1.0			iX2N	09 59.4		
	ME(S)	0.5	0.8			MZ(X2)		6.3	0.8
	P-S: 42.7s					MN(X2)		9.0	0.7
						ME(X2)		7.1	0.7
	P-S: 27.4s					P-S: 39.5s			
3	iPZX	20 31 32.1	+1.8		4	ePZX	16 06 04.7		
	eSN	32 09.8				iSN	06 47.8		
	MZNE(S)					eXN	07 05.1		
	P-S: 37.7s, P-F: 7m 20s					MZ(X)		5.5	0.8
						MN(Y)		6.9	0.6
						ME(X)		6.2	0.9
	P-S: 43.8s					P-S: 43.1s			
3	ePZX	21 32 05.5			4	ePZX	17 51 46.9		
	eSN	32 44.3				iXZX	51 49.4		
	MZ(S)	1.1	0.8			iSN	52 27.0		
	MN(S)	1.4	0.8			MZ(S)		2.9	0.8
	ME(S)	1.8	0.8			MN(S)		5.1	0.9
	P-S: 38.8s					ME(S)		3.6	0.9
						P-S: 40.1s			
3	ePZX	22 00 05.2			4	ePZX	18 11 16.5	-3.4	
	eSN	00 49.0				eSN	12 01.7		
	MZ(S)	1.6	0.6			eZX	12 22		
	MN(S)	2.3	1.2			MZNE(X)			
	ME(S)	2.2	0.8			S0			
	P-S: 43.8s					P-S: 45.2s			
3	ePZX	22 07 56.1			4	iPZX	22 55 36.9		
	eSN	08 35.4				eSN	56 16.5		
	MZ(S)	8.5	0.8			eXN	56 28.6		
	MN(S)	20.0	0.8			MZ(X)		13.5	1.1
	ME(S)	9.2	0.8			MN(X)		19.3	1.4
	P-S: 39.3s					ME(X)		14.0	1.3

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		hh mm ss	mm	sec			hh mm ss	mm	sec
4	ePZX	19 59 36.2			4	ePZX	23 22 31.3		
	eSN	20 00 17.7				eSN	23 11.3		
	MZ(S)					MZ(S)		1.1	0.8
	MN(S)					MN(S)		1.5	1.1
	ME(S)					ME(S)		1.3	0.9
	P-S: 41.5s					P-S: 40.0s			
4	ePZX	20 01 38.6			4	ePZX	23 58 00.8		
	MZNE					eSN	58 38.5		
	P-S: 37.7s					MZ(S)		1.0	0.6
						MN(S)		2.0	0.6
						ME(S)		1.5	0.6
5	ePZX	00 12 44.4			5	ePZX	00 49 04.9		
	eSN	01 22.7				eSN	49 45.4		
	MZ(S)					MZ(S)		0.8	0.8
	MN(S)					MN(S)		1.4	0.9
	ME(S)					ME(S)		0.9	0.7
	P-S: 38.3s					P-S: 40.5s			
4	eX1ZX	20 46 50.5			4	ePZX	21 05 15.1		
	eY2ZX	47 30.7				eSN	05 54.6		
	MZ(X1)					MZ(S)		1.5	1.6
	MN(X1)					MN(S)		0.5	1.1
	ME(X1)					ME(S)		0.5	1.0
	P-S: 40.5s					P-S: 46.5s			
4	ePZX	21 22 28.7			5	ePZX	01 18 25.6		
	eSN	23 10.6				eSZX	19 12.1		
	MZ(S)					MZ(S)		1.0	1.0
	MN(S)					MN(S)		1.7	0.6
	ME(S)					ME(S)		1.3	0.9
	P-S: 42.3s					P-S: 42.3s			
4	ePZX	21 30 02.3			5	ePZX	02 44 19.1		
	eSN	30 42.5				iXN	45 20.9		
	MZ(S)					MZ(X)		0.6	1.1
	MN(S)					MN(X)		0.6	1.1
	ME(S)					ME(X)		0.4	0.8
	P-S: 40.2s					P-S: 43.7s			
4	ePZX	22 02 03.5			5	ePZX	02 56 07.8		
	eSN	02 44.3				eSN	56 52.2		
	MZ(S)					MZ(S)		1.4	0.7
	MN(S)					MN(S)		2.4	0.9
	ME(S)					ME(S)		2.4	0.9
	P-S: 40.8s					P-S: 44.4s			
4	ePZX	22 55 36.9			5	ePZX	04 37 49.4		
	eSN	56 16.5				eSZX	38 32.1		
	MZ(X)					MZ(S)		1.3	1.2
	MN(X)	</							

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Date	Phase	Time(JST)			Amp.	Per.	Date	Phase	Time(JST)			Amp.	Per.
		h	m	s	mm	sec			h	m	s	mm	sec
7	ePZX	19	37	03.2			8	ePZX	17	35	24		
	iSZX		37	12.7				eSZX		36	26.1		
	MZ(S)				0.8	0.4		MZ(S)				0.7	0.8
	MN(S)				1.7	0.5		MN(S)				1.8	0.9
	ME(S)				1.2	0.3		ME(S)				1.0	0.8
	P-S: 09.5s, P-F: 45s							P-S: 1m 02s, P-F: 2m 25s					
7	ePZX	21	16	03.9			8	ePZX	18	00	21.3		
	iZXZ		16	06.7				eSZX		00	55.9		
	iSE		16	51.5				MZ(S)				0.8	1.0
	MZ(S)				37.6			MN(S)				1.5	0.8
	MN(S)				36.2	1.4		ME(S)				1.2	0.7
	ME(S)				30.4	1.1		P-S: 34.6s, P-F: 2m 25s					
	P-S: 47.6s												
8	ePZX	00	33	05.4			8	iPZX	20	10	08.8	-1.2	
	eSN		33	48.7				iSN		10	33.9		
	MZ(S)				0.8	0.7		MZ(S)				11.9	1.1
	MN(S)				1.7	0.8		MN(S)				20.4	0.8
	ME(S)				1.3	0.8		ME(S)				11.2	0.7
	P-S: 43.3s							P-S: 25.1s, P-F: 3m 25s					
8	ePZX	02	34	25.4			8	iPZX	21	05	01.8	+1.0	
	eSN		35	10.4				eSN		05	52.4		
	eXN		35	33				MZ(S)				>35	
	MZ(X)				1.1	0.7		MN(S)				58.5	1.0
	MN(X)				1.5	1.1		ME(S)				>45	
	ME(X)				1.2	0.8		P-S: 50.6s, P-F: 7m 50s					
	P-S: 45.0s, P-F: 2m 45s												
8	ePZX	02	43	37.8			8	ePZX	22	21	44.7		
	eSN		44	26.1				eSN		22	27.6		
	eXN		44	48.9				MZ(S)				13.5	1.1
	MZ(X)				0.7	0.9		MN(S)				23.4	0.9
	MN(X)				1.2	1.0		ME(S)				22.2	1.1
	ME(X)				0.9	1.0		P-S: 42.9, P-F: 5m 50s					
	P-S: 48.3s, P-F: 2m 55s												
8	ePZX	10	04	30			8	ePZX	22	31	52.8		
	eSN		05	16.8				eSN		32	33.1		
	eXN		05	38				MZ(S)				0.9	0.8
	MZ(X)				0.5	1.0		MN(S)				1.8	0.8
	MN(X)				0.9	1.3		ME(S)				1.0	0.7
	ME(X)				0.6	1.2		P-S: 40.3s, P-F: 2m 20s					
	P-S: 47s, P-F: 2m 20s												
8	ePZX	15	39	25.4			8	ePZX	22	34	59.6		
	eSN		40	05.4				eSN		35	38.1		
	MZ(S)				1.2	0.8		MZ(S)				0.7	0.8
	MN(S)				1.8	0.7		MN(S)				1.5	0.8
	ME(S)				1.3	0.7		ME(S)				1.1	0.9
	P-S: 40.0s							P-S: 38.5s, P-F: 1m 50s					
8	ePZX	16	10	12.6			8	ePZX	23	40	42.5		
	eSZX		10	51.3				eSN		41	28.2		
	MZ(S)				0.7	0.8		MZ(P)				0.7	0.2
	MN(S)				0.8	1.1		MN(S)				0.9	0.6
	ME(S)				0.6	1.6		ME(P)				0.6	0.2
	P-S: 38.7s, P-F: 1m 50s							P-S: 45.7s, P-F: 1m 50s					
9	ePZX	02	24	27.5									
	iZXZ		24	30.0									
	eSN		25	22.6									
	MZ(S)							MZ(S)				2.9	1.0
	MN(S)							MN(S)				5.3	1.1
	ME(S)							ME(S)				5.3	1.0
	P-S: 55.1s, P-F: 3m 30s							P-S: 55.1s, P-F: 3m 30s					

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Date	Phase	Time(JST)			Amp.	Per.	Date	Phase	Time(JST)			Amp.	Per.			
		9	06	34 ^h	02.5 ^m	sec	mm	sec	11	ePZX	02	22 ^h	39.3 ^m	sec	mm	sec
9	ePZX	06	34	02.5	0.5	0.7	eSN	34	42.9	MZ(S)	02	22	39.3	0.6	0.6	
										MN(S)	23	16.1				
										ME(S)			0.6	0.6		
										P-S:	40.4s,	P-F:	2m 20s			
														P-S:	36.8s, P-F: 2m 20s	
9	ePZX	07	50	49.1			eSN	51	30.6							
										MZ(S)			0.7	0.6		
										MN(S)			1.2	1.2		
										ME(S)			0.9	0.7		
										P-S:	41.5s,	P-F:	1m 35s			
														P-S:	48.7s, P-F: 2m 35s	
9	ePZX	08	02	10.0			eSN	03	26.9							
										MZ(S)			2.0	0.6		
										MN(S)			3.8	0.6		
										ME(S)			2.9	0.7		
										P-S:	1m 16.9s,	P-F:	3m 25s			
														P-S:	40.7s, P-F: 1m 55s	
9	ePZX	20	25	33.2			iSZX	25	50.3							
										MZ(S)			0.8	0.4		
										MN(S)			2.9	0.3		
										ME(S)			0.8	0.2		
										P-S:	17.1s,	P-F:	1m 00s			
														P-S:	2m 45.2s, P-F: 6m 15s	
10	ePZX	06	56	47.6			eSN	57	29.1							
										MZ(S)			0.9	0.8		
										MN(S)			1.8	0.8		
										ME(S)			1.0	0.9		
										P-S:	41.5s,	P-F:	2m 20s			
														P-S:	35.2s, P-F: 25s	
10	iPZX	10	50	55.3	+0.6		eSN	51	10.9							
										MZ(S)			0.7	0.4		
										MN(S)			1.6	0.3		
										ME(S)			1.0	0.3		
										P-S:	15.6s,	P-F:	1m 10s			
														P-S:	11.8s, P-F: 25s	
10	ePZX	18	57	23.9			eSN	58	04.2							
										MZ(S)			2.0	1.0		
										MN(S)			2.5	0.9		
										ME(S)			2.2	1.0		
										P-S:	40.3s,	P-F:	2m 55s			
														P-S:	44.6s, P-F: 1m 30s	
10	ePZX	19	01	51.3			eSE	03	16.0							
										MZ(S)			>10			
										MN(S)			>13			
										ME(S)			9.0	1.0		
										P-S:	1m 24.7s,	P-F:	10m 50s			
														P-S:	41.3s, P-F: 1m 50s	
11	iPZX	02	13	43.2	-1.0		eSZX	13	51.4							
										MZ(S)			0.5	0.7		
										MN(S)			0.8	0.3		
										ME(S)			0.4	0.5		
										P-S:	08.2s,	P-F:	42s			
														P-S:	4ls, P-F: 1m 45s	

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Date	Phase	Time(JST)			Amp.	Per.	Date	Phase	Time(JST)			Amp.	Per.
		h	m	s	mm	sec			h	m	s	mm	sec
15	ePZX	22	01	59.7			17	iPZX	05	38	22.9	-1.2	
	eSN		02	40.9				eSN		39	17.3		
	MZ(S)				2.3	0.8		MZ(S)				21.7	1.0
	MN(S)				4.0	0.8		MN(S)				30.0	0.8
	ME(S)				3.3	0.7		ME(S)				23.1	0.8
	P-S: 41.2s, P-F: 2m 35s							P-S: 54.4s, P-F: 4m 20s					
16	ePZX	00	47	07.6			17	iPZX	07	50	03.7	-0.6	
	eSN		48	49.0				eSZX		50	14.1		
	eZN		49	29.7				MZ(S)				1.0	0.6
	MZ(X)				9.2	0.8		MN(S)				1.7	0.6
	MN(X)				14.5	1.0		ME(S)				1.1	0.5
	ME(X)				11.3	1.2		P-S: 10.4s, P-F: 54s					
	P-S: 1m 41.4s, P-F: 5m 50s												
16	ePZX	06	44	28.0			17	iPZ	19	55	11.8	-1.0	
	eSZX		45	18.5				iPN				11.8	-0.3
	MZ(S)				0.5	0.7		iPE				11.8	-0.2
	MN(S)				0.8	0.6		iSN		55	23.5		
	ME(S)				0.5	0.6		MZ(S)				5.7	0.3
	P-S: 50.5s, P-F: 2m 10s							MN(S)				10.2	0.3
	P-S: 11.7s, P-F: 2m 55s							ME(S)				5	
16	iPZX	13	04	15.0	-3.2		17	ePZX	22	15	12.4		
	iSN		04	21.4				iX1ZX		15	14.1		
	MZ(S)				4.8	0.3		iX2ZX		15	25.5		
	MN(S)				14.2	0.3		eSN		16	04.1		
	ME(S)				8.7			MZ(X2)				0.8	0.5
	P-S: 06.4s, P-F: 52s							MN(S)				1.0	1.2
	P-S: 11.7s, P-F: 2m 55s							ME(X2)				0.8	0.5
16	ePZX	19	02	59.3			17	ePZX	22	18	20.9		
	eSZX		05	25.2				iX1ZX		18	22.4		
	MZ(S)				0.5	0.6		iX2ZX		18	34.0		
	MN(S)				1.1	0.4		eSN		19	12.9		
	ME(S)				0.7	0.8		eX3N		19	36.0		
	P-S: 2m 25.9s							MZ(X3)				0.7	0.9
	P-S: 51.7s, P-F: 2m 35s							MN(X3)				1.0	1.5
16	ePZX	20	46	32.6				ME(X3)				0.8	1.2
	eSN		47	07.7			17	P-S: 52.0s, P-F: 2m 50s					
	MZ(S)				3.3	0.5							
	MN(S)				5.1	0.7							
	ME(S)				3.5	0.5							
	P-S: 35.1s, P-F: 3m 25s												
16	iPZX	23	25	38.9	-0.9		17	ePZX	23	14	41.1		
	iSZX		27	07.0				iX1ZX		14	42.7		
	MZ(S)				6.3	0.6		eSN		15	35.6		
	MN(S)				12.1	0.5		MZ(S)				1.0	0.8
	ME(S)				5.8	0.6		MN(S)				1.6	0.7
	P-S: 1m 28.1s, P-F: 4m 35s							ME(S)				1.3	0.7
	P-S: 54.5s, P-F: 2m 25s							P-S: 54.5s, P-F: 2m 25s					
17	iPZX	04	33	59.6	+2.2		17	ePZX	23	20	53.0		
	iSN		34	11.2				iX1ZX				55.0	
	MZ(S)				6.3	0.6		iX2ZX		21	06.4		
	MN(S)				14.4	0.5		eSN		21	40.8		
	ME(S)				8.4	0.5		MZ(X2)				1.1	0.5
	P-S: 11.6s, P-F: 1m 20s							MN(S)				0.8	1.0
	P-S: 47.8s, P-F: 2m 30s							ME(X2)				0.8	0.5
17	ePZX	05	26	04.4			18	eXZX	02	01	26.8		
	eSN		26	43.0				MZ(X)				0.7	0.9
	MZ(S)				1.2	0.6		MN(X)				1.0	0.7
	MN(S)				2.1	0.8		ME(X)				0.8	0.8
	ME(S)				1.0	0.6		P-S: 47.8s, P-F: 2m 30s					

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		02 ^h 27 ^m 00.7 ^s	-0.5	mm sec		ePZX	04 ^h 51 ^m 33.9 ^s	mm	sec
18	iPZX	02 27 00.7	0.9	0.8	20	eSZX	04 51 33.9	1.4	0.7
	MZ(P)		0.6	1.0		MZ(S)	52 12.9	3.1	0.7
	MN(P)		0.4	0.6		MN(S)		1.5	0.9
	ME(P)					ME(S)			
18	ePZX	18 37 51.0	0.5	0.8					
	MZ(P)		0.4	0.9	20	iPZX	07 58 01.7	+2.6	
	MN(P)		0.3	0.6		ePPZX	08 01 03.2		
	ME(P)					eSZX	08 10		
18	ePZX	19 19 23.5				eLg2ZX	28 11		
	eSN	20 13.7	0.7	0.6		MZ(P)		2.1	2.9
	MZ(S)		1.5	0.8		MN(P)		2.1	2.6
	MN(S)		0.7	0.6		ME(P)		0.9	1.8
	ME(S)								
						P-S: 10m 08s			
						P-S: 50.2s, P-F: 1m 50s			
19	ePZX	01 40 20.9			20	ePZX	16 16		
	eSN	40 57.7	0.8	0.6		MZ(S)		0.9	0.7
	MZ(S)		1.7	0.6		MN(S)		0.9	0.7
	MN(S)		1.0	0.7		ME(S)		0.8	0.6
	ME(S)								
						P-S: 36.8s, P-F: 1m 55s			
19	ePZX	07 26 42.7			20	ePZX	21 00 17.4		
	eSZX	27 42.7	0.7	0.9		eSN	01 03.6		
	MZ(S)		0.8	0.7		MZ(S)		1.3	0.7
	MN(S)		0.3	1.0		MN(S)		2.3	1.0
	ME(S)					ME(S)		1.6	0.8
						P-S: 46.2s, P-F: 2m 15s			
19	ePZX	18 18 18.0			21	ePZX	02 30 55.4		
	eSN	18 53.4	2.0	0.6		eSN	31 09.0		
	MZ(S)		4.5	0.8		MZ(S)		39.1	0.8
	MN(S)		2.5	1.0		MN(S)		76.7	0.8
	ME(S)					ME(S)		>50	
						P-S: 1m 00s, P-F: 2m 25s			
19	ePZX	19 48 51.4			21	ePZX	08 17 21.8		
	eSN	49 29.0	7.2	0.7		eSN	17 50.5		
	MZ(S)		11.1	0.9		MZ(S)		1.3	0.7
	MN(S)		6.6	1.0		MN(S)		2.9	0.6
	ME(S)					ME(S)		2.0	0.7
						P-S: 28.7s, P-F: 2m 20s			
19	ePZX	23 03 48.7			21	iPZX	08 30 35.0	+1.0	
	MZ(P)		0.5	1.2		eSN	31 55.5		
	MN(P)		0.5	1.7		MZ(S)		13.6	0.7
	ME(P)		0.4	1.4		MN(S)		13.4	0.5
						ME(S)		9.5	0.8
						P-S: 1m 20.5s, P-F: 4m 50s			
19	ePZX	23 49 24.1			21	eXZX	08 55 02		
	eSN	50 13.0				MZ(X)		0.5	1.0
	iXN	50 31.6	4.1	0.9		MN(X)		0.5	1.2
	MZ(X)		6.9	0.8		ME(X)		0.3	1.1
	MN(X)		5.0	0.8					
	ME(X)								
						P-S: 48.9s, P-F: 4m 05s			
20	eXlZX	01 19 17			21	ePZX	13 25 38.0	-1.2	
	eX2ZX	25 13	0.8	1.9		eSN	26 05.5		
	MZ(X1)		1.8	2.2		MZ(S)		1.8	0.8
	MN(X1)		1.0	2.3		MN(S)		4.0	0.3
	ME(X1)					ME(S)		1.6	0.4
						P-S: 27.5s, P-F: 1m 40s			

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		15 ^h 24 ^m 18.5 ^s	mm	sec		ePZX	19 ^h 16 ^m 55.3 ^s	mm	sec
21	ePZX	MZ(P)	0.8	0.8	23	iXZX	16 57.4		
	MN(P)		0.3	0.8		eSN	17 38.5		
	ME(P)		0.3	0.9		MZ(S)		1.7	0.9
						MN(S)		3.3	1.0
						ME(S)		1.8	1.4
21	ePZX	MZ(P)	2.0	0.8					
	MN(P)		0.8	0.9	23	iPZX	20 05 26.9	-1.0	
	ME(P)		0.9	0.7		eSZX	10 05.8		
						MZ(S)		0.8	1.0
						MN(S)		0.5	1.2
						ME(P)		0.4	0.7
21	ePZX	15 39 01.9							
	eSN	39 45.8			23	iPZX	23 25 09.5		
	MZ(S)		3.1	0.8		eSZX	25 42.7		
	MN(S)		5.0	0.9		MZ(S)		0.8	0.7
	ME(S)		3.3	0.9		MN(S)		1.5	0.7
						ME(S)		0.7	0.7
						P-S: 43.9s, P-F: 3m 25s			
21	ePZX	18 06 28.4			24	ePZX	01 08 19.6		
	MZ(P)		0.6	0.9		eSZX	08 57.3		
	MN(P)		0.4	1.0		MZ(S)		0.7	0.8
	ME(P)		0.4	1.0		MN(S)		1.0	0.8
						ME(S)		0.8	0.7
						P-S: 33.2s, P-F: 1m 40s			
21	iPZX	21 41 59.1	+1.2		24	ePZX	07 49 01.2		
	MZ(P)		0.7	1.1		eSZX	50 22.5		
	MN(P)		0.6	1.2		MZ(S)		0.7	0.4
	ME(P)		0.4	1.5		MN(S)		0.9	0.4
						ME(S)		0.4	0.3
						P-S: 37.7s, P-F: 2m 25s			
22	ePZX	00 04 05.2			24	ePZX	10 23 36.0	+0.6	

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		hh mm ss	mm	sec			hh mm ss	mm	sec
25	ePZX	01 03 35.4			26	iPZX	22 38 59.9	+SO	
	eSZX	05 03.3				MZNE		SO	
	MZ(P)	0.5	0.7						
	MN(P)	0.8	0.9						
	ME(P)	0.4	0.7						
	P-S:	1m 27.9s,	P-F:	2m 20s					
25	ePZX	03 09 17.4			27	ePZX	08 16 55.9		
	iSN	09 40.5				MZ(P)	0.7	0.8	
	MZ(S)	1.1	0.5			MN(P)	0.3	1.2	
	MN(S)	2.0	0.7			ME(P)	0.3	0.7	
	ME(S)	1.6	0.5						
	P-S:	23.1s,	P-F:	1m 40s					
25	ePZX	04 56 05.5							
	iSN	56 40.9							
	MZ(S)	2.4	0.5						
	MN(S)	4.5	0.7						
	ME(S)	2.9	0.7						
	P-S:	35.4s,	P-F:	2m 00s					
25	iPZX	19 26 48.6	-1.8						
	eSN	27 29.2							
	MZ(S)	16.7	0.8						
	MN(S)	>35							
	ME(S)	>25							
	P-S:	40.6s,	P-F:	6m 00s					
26	iPZX	03 14 17.1	+0.8						
	MZ(P)	0.6	0.9						
	MN(P)	0.3	0.9						
	ME(P)	0.3	0.8						
	P-S:	38.7s,	P-F:	2m 20s					
26	ePZX	05 01 39.5							
	eSN	02 31.4							
	MZ(S)	11.9	0.6						
	MN(S)	18.9	0.5						
	ME(S)	15.9	0.8						
	P-S:	51.9s,	P-F:	6m 55s					
26	iPZX	06 19 07.8	+0.4						
	iSZX	19 46.5							
	MZ(S)	2.5	0.6						
	MN(S)	4.6	0.5						
	ME(S)	2.9	0.6						
	P-S:	38.7s,	P-F:	3m 25s					
26	iPZX	14 32 54.3	-0.9						
	eSZX	34 22.6							
	MZ(P)	1.4	0.5						
	MN(P)	0.9	0.6						
	ME(S)	0.6	0.6						
	P-S:	1m 28.3s,	P-F:	2m 25s					
26	iPZX	19 55 55.1	-0.5						
	eSN	20 00 27.0							
	eLg2ZX	06 04							
	MZ(P)	6.8	1.4						
	MN(P)	4.5	1.4						
	ME(P)	5.8	1.7						
	P-S:	4m 31.9s							

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		hh mm ss	mm	sec			hh mm ss	mm	sec
1	ePZX	00 49 30.7			3	ePZX	03 42 39.4		
	eSN	51 57.3							
	MZ(P)								
	MN(P)								
	ME(P)								
	P-S:	2m 26.6s,	P-F:	4m 15s					
1	ePZX	01 22 05.7			3	ePZX	06 09 31.4		
	eSZX	23 26.2							
	MZ(S)								
	MN(S)								
	ME(S)								
	P-S:	1m 20.5s,	P-F:	2m 45s					
1	ePZX	01 39 56.5			3	iPZX	08 44 43.3	+2.2	
	eSZX	41 28.8							
	MZ(S)								
	MN(S)								
	ME(S)								
	P-S:	1m 32.3s,	P-F:	3m 00s					
1	ePZX	03 43 00.2			4	ePZX	01 16 15.6		
	eSZX	43 31.1							
	MZ(S)								
	MN(S)								
	ME(S)								
	P-S:	30.9s,	P-F:	2m 05s					
1	iPZX	07 07 45.1	+2.8		4	ePZX	06 14 20.4		
	eSN	07 53.3							
	MZ(S)								
	MN(S)								
	ME(S)								
	P-S:	32.7s,	P-F:	1m 45s					
2	ePZX	08 11 20.4			4	iPZX	08 03 08.6	-1.6	
	eSN	11 38.5							
	iXN	12 00.4							
	MZ(X)								
	MN(X)								
	ME(S)								
	P-S:	08.2s,	P-F:	1m 15s					
2	ePZX	08 30 33.5	-0.3		4	ePZX	12 32 06.3		
	iXZX	30 33.9							
	eSN	30 41.2							
	MZ(S)								
	MN(S)								
	ME(S)								
	P-S:	6m 0ls							
2	iPZX	08 30 33.5	-0.3		4	ePZX	12 32 07.4		
	iXZX	30 33.9							
	eSN	30 41.2							
	MZ(S)								
	MN(S)								
	ME(S)								
	P-S:	6m 0ls							
2	iPZX	08 30 33.5	-0.3		4	ePZX	12 32 07.4		
	iXZX	30 33.9							
	eSN	30 41.2							
	MZ(S)								
	MN(S)								
	ME(S)								
	P-S:	1m 0l.ls,	P-F:	2m 10s					
2	ePZX	23 54 17.9			4	ePZX	18 21 54.9		
	eSN	54 55.0							
	iXN	55 10.9				</td			

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Date	Phase	Time(JST)	Amp.	Per.		Date	Phase	Time(JST)	Amp.	Per.		
		19 ^h 04 ^m 31.9 ^s	-0.5 ^{mm}	sec			ePZX	13 ^h 26 ^m 42.6 ^s	mm	sec		
4	iPZX	19 04 31.9				6	ePZX	13 26 42.6				
	eSZX	04 46.5					eSZX	27 26.1				
	MZ(S)	0.9	0.4				MZ(S)		1.2	0.4		
	MN(S)	1.3	0.5				MN(S)		2.9	0.7		
	ME(S)	0.7	0.5				ME(S)		1.0	0.4		
	P-S: 14.6s,						P-S: 43.5s, P-F: 1m 45s					
4	ePZX	19 05 03.0				6	ePZX	16 12 36.1				
	eSN	05 21.2					eSZX	12 43.9				
	MZ(S)	2.8	0.9				MZ(S)		0.5	0.3		
	MN(P)	2.9	0.3				MN(S)		2.4	0.3		
	ME(S)	2.3	1.0				ME(S)		1.0	0.3		
	P-S: 18.2s, P-F: 3m 50s						P-S: 07.8s, P-F: 25s					
4	ePZX	20 53 07.5				6	ePZX	23 28 07.4				
	eSN	53 36.8					eSZX	28 48.5				
	MZ(S)	0.7	0.8				MZ(S)		0.9	0.7		
	MN(S)	1.2	0.8				MN(S)		1.9	0.9		
	ME(S)	0.6	0.6				ME(S)		1.4	0.8		
	P-S: 28.3s, P-F: 2m 50s						P-S: 41.1s, P-F: 2m 20s					
5	ePZX	09 29 16.3				7	iPZX	01 52 50.0	-2.4			
	MZ(P)	0.6	0.8				eSZX	54 04.3				
	MN(P)	0.3	0.8				MZ(P)		10.9	0.5		
	ME(P)	0.2	0.8				MN(S)		16.8	0.6		
	P-S: 1m 14.3s, P-F: 4m 25s						ME(S)		9.3	0.7		
5	ePZX	16 41 47.1				7	ePZX	11 56 22.3				
	eSN	42 14.2					eSN	57 40.0				
	MZ(S)	1.0	0.7				MZ(S)		2.6	1.1		
	MN(S)	1.4	0.6				MN(S)		2.5	1.3		
	ME(S)	1.2	0.8				ME(S)		2.5	1.1		
	P-S: 27.1s, P-F: 2m 45s						P-S: 1m 17.7s, P-F: 4m 20s					
6	ePZX	03 23 34.4				7	ePZX	12 02 08				
	MZ(P)	0.9	1.1				eSZX	03 08.3				
	MN(P)	0.8	1.0				MZ(S)		1.0	0.8		
	ME(P)	0.6	1.3				MN(S)		1.4	0.7		
	P-S: 1m 00s, P-F: 1m 55s						ME(S)		0.6	0.8		
6	ePZX	03 45 02.5				7	ePZX	17 44 34.8				
	MZ(P)	0.7	1.0				eXZX	44 44.5				
	MN(P)	0.7	1.0				eSZX	45 30.6				
	ME(P)	0.4	1.0				MZ(S)		0.6	0.6		
	P-S: 1m 00s, P-F: 1m 55s						MN(S)		1.4	0.8		
6	iPZ	05 09 40.2	+4.0			7	ePZX	21 42 15.9				
	iPN	40.2	-0.4				eSN	42 31.5				
	iPE	40.3	+1.0				MZ(S)		1.4	0.6		
	iSN	09 49.8					MN(S)		2.2	0.4		
	MZ(P)	6.1	0.5				ME(S)		1.7	0.3		
	MN(S)	15.0	0.5				P-S: 55.8s, P-F: 1m 40s					
	ME(S)	6.5	0.4									
	P-S: 09.6s, P-F: 2m 15s											
6	ePZX	09 09 12.4				7	ePZX	22 30 57				
	eSZX	09 52.7					MZ(X)		0.5	2.8		
	MZ(S)	0.8	1.0				MN(X)		0.6	2.2		
	MN(S)	0.9	0.8				ME(X)		0.5	2.3		
	ME(S)	0.7	0.7				P-S: 1m 19.0s, P-F: 4m 20s					
	P-S: 40.3s, P-F: 2m 20s											
6	ePZX	09 14 07.7				7	eXZX					
	eSZX	15 26.7					MZ(S)					
	MZ(S)	3.7	1.1				MN(S)					
	MN(S)	4.0	1.2				ME(S)					
	ME(S)	4.4	1.2				P-S: 1m 19.0s, P-F: 4m 20s					

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Date	Phase	Time(JST)	Amp.	Per.		Date	Phase	Time(JST)	Amp.	Per.		
		23 ^h 57 ^m 05.7 ^s	mm	sec			ePZX	20 ^h 14 ^m 34.9 ^s	mm	sec		
7	ePZX	23 57 05.7				12	ePZX	20 14 34.9				
	eSN	57 47.6					eSZX	15 18.2				
	MZ(S)		0.6	0.7			MZ(S)		0.6	0.5		
	MN(S)		1.2	0.7			MN(S)		1.5	0.7		
	ME(S)		0.9	0.8			ME(S)		0.8	0.8		
	P-S: 41.9s, P-F: 1m 55s						P-S: 43.3s, P-F: 2m 15s					
8	iPZX	13 43 55.7	-2.6			12	ePZX	22 30 10.6				
	eSZX	44 02.1					eSZX	31 37.8				
	MZ(S)		1.0	0.3			MZ(P)		0.5	0.5		
	MN(S)		2.2	0.2			MN(S)		1.0	0.4		
	ME(S)		1.2	0.2			ME(S)		0.5	0.5		
	P-S: 06.4s, P-F: 58s						P-S: 1m 27.2s, P-F: 2m 05s					
8	ePZX	14 14 39.9				13	ePZX	05 03 44.2				
	eSN	15 30.2					iXZX	03 47.6				
	MZ(S)		0.7	0.7			eSZX	03 58.3				
	MN(S)		1.6	0.7			MZ(S)		3.8	0.9		
	ME(S)		1.0	0.9			MN(S)		4.6	0.7		
	P-S: 50.3s, P-F: 2m 45s						ME(S)		3.6	0.5		
	P-S: 14.1s, P-F: 1m 50s						P-S: 14.1s, P-F: 1m 50s					
9	ePZX	12 28 02.7		</td								

Kamikineusu, March 1968

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Date	Phase	Time(JST)			Amp.	Per.	Date	Phase	Time(JST)			Amp.	Per.	
		hh	mm	ss	mm	sec			hh	mm	ss	mm	sec	
19	ePZX	04	29	46.6			21	ePZX	09	42	31.9			
	eSZX		31	14.9				eSZX		43	47.9			
	MZ(S)			0.5	0.7		MZ(S)			0.9	1.0			
	MN(S)			0.5	0.8		MN(S)			1.0	0.9			
	ME(S)			0.5	0.9		ME(S)			1.7	1.2			
	P-S: 1m 28.3s, P-F: 3m 15s							P-S: 1m 16.0s, P-F: 4m 50s						
19	ePZX	10	47	14.8			21	ePZX	22	45	54.1			
	MZ(P)			0.5	1.8		eSZX		46	33.1				
	MN(P)			0.5	1.3		MZ(S)			0.6	0.6			
	ME(P)			0.3	1.3		MN(S)			1.9	0.7			
20	ePZX	07	31	02.2			21	ME(S)			0.7	0.7		
	eSZX		32	36.5				P-S: 39.0s, P-F: 2m 05s						
	MZ(S)			0.9	0.9		22	ePZX	03	37	11.6			
	MN(S)			2.2	0.8		iSN		37	17.6				
	ME(S)			1.4	0.9		MZ(S)			0.5	0.3			
	P-S: 1m 34.3s, P-F: 3m 45s						MN(S)			2.3	0.2			
20	ePZX	08	50	55.5			ME(S)			1.2	0.1			
	eSN		51	07.8				P-S: 06.0s, P-F: 24s						
	MZ(S)			1.0	0.7		22	iPZX	11	15	12.0	-1.8		
	MN(S)			1.9	0.7		MZ(P)			2.0	1.0			
	ME(S)			1.1	0.4		MN(P)			1.0	0.7			
	P-S: 12.3s, P-F: 1m 25s						ME(P)			0.8	0.7			
20	iPZX	13	05	56.5	-1.0		23	ePZX	05	35	57.3			
	eSN		06	01.7			eSN		36	51.8				
	MZ(S)			4.0	0.5		MZ(S)			17.3	0.7			
	MN(S)			12.7	0.3		MN(S)			27.5	1.2			
	ME(S)			5.2	0.5		ME(S)			24.1	1.2			
	P-S: 05.2s, P-F: 2m 05s						P-S: 54.5s, P-F: 11m							
20	ePZX	20	36	05.9			23	ePZX	09	07	28.4			
	eSN		36	54.3			MZ(P)			0.6	0.6			
	iXN		37	18.8			MN(P)			0.3	0.4			
	MZ(X)			10.4	0.6		ME(P)			0.3	0.5			
	MN(X)			31.5	1.0			23	iPZX	13	19	49.3	+1.0	
	ME(X)			16.1	0.9		MZ(S)							
	P-S: 48.4s, P-F: 4m 25s						iXZX		19	51.6				
21	ePZX	01	17	37.6			eSZX		20	04.3				
	eSN		18	33.8			MZ(S)			1.3	0.3			
	MZ(S)			1.4	0.8		MN(S)			4.5	0.4			
	MN(S)			2.2	0.7		ME(S)			2.5	0.4			
	ME(S)			1.2	0.6		P-S: 15.0s, P-F: 1m 45s							
	P-S: 56.2s, P-F: 2m 45s						23	ePZX	15	09	56.6			
21	ePZX	04	01	13.3			eSZX		10	25.3				
	eSZX		01	36.6			eXZX		10	38				
	MZ(S)			1.5	0.8		MZ(X)			1.5	0.6			
	MN(S)			4.2	0.8		MN(X)			3.0	0.6			
	ME(S)			2.5	0.8		ME(X)			1.5	0.6			
	P-S: 23.3s, P-F: 2m 55s						P-S: 28.7s, P-F: 1m 20s							
21	ePZX	06	51	24.8			23	ePZX	20	38	13.3			
	eSZX		51	41.9			eSN		38	33.4				
	MZ(S)			0.5	0.5		MZ(S)			3.8	0.9			
	MN(S)			0.7	0.4		MN(S)			6.5	0.8			
	ME(S)			0.5	0.5		ME(S)			5.2	1.2			
	P-S: 17.1s, P-F: 1m 25s						P-S: 20.1s, P-F: 3m 20s							

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Date	Phase	Time(JST)	Amp.	Per.	Date	Phase	Time(JST)	Amp.	Per.
		07 ^h 32 ^m 28.1 ^s	mm	sec		ePZX	19 ^h 56 ^m 45.7 ^s	mm	sec
31	ePZX	07 32 28.1			31	ePZX	19 56 45.7		
	iXZX	32 30.4				eSN	57 30.7		
	eSN	33 05.2				MZ(S)		2.0	1.1
	MZ(X)		0.9	0.3		MN(S)		2.5	1.0
	MN(S)		1.4	0.4		ME(S)		1.7	1.1
	ME(S)		0.7	0.4					
								P-S: 45.0s,	P-F: 2m 30s
									P-S: 37.1s, P-F: 1m 35s
31	ePZX	16 06 59.1			31	iPZX	22 36 49.5	-3.4	
	eSZX	07 45.1				iSN	36 56.8		
	MZ(S)		1.6	1.1		MZ(P)		1.0	0.4
	MN(S)		1.7	0.9		MN(S)		2.0	0.4
	ME(S)		1.5	1.0		ME(S)		1.4	0.4
									P-S: 07.3s, P-F: 55s
									P-S: 46.0s, P-F: 2m 15s

* Addenda

January

29	ePZX	21	19	01.1
	eSN	19		42.5
	MZ(S)		0.5	0.7
	MN(S)		0.9	0.8
	ME(S)		0.6	0.7

P-S: 41.4s

February

4	ePZX	21	10	14.3
	eSN	10		51.1
	MZ(S)		3.3	1.0
	MN(S)		5.7	1.1
	ME(S)		4.9	0.9

P-S: 36.8s

29	ePZX	21	23	55.4
	eSN	24		34.0
	MZ(S)		2.5	1.0
	MN(S)		4.2	1.0
	ME(S)		2.7	1.0

P-S: 38.6s

4	ePZX	21	19	54.0
	eSN	20		34.1
	MZ(S)		0.5	1.1
	MN(S)		0.6	0.8
	ME(S)		0.5	0.7

P-S: 40.1s

Errata to Nos. 1 and 2 of this bulletin:

All signs indicating the direction of the first motion
should be reversed.

12 MAY 1969

Bulletin of the
Urakawa Seismological Observatory

No. 4

April - September

1968

Urakawa Seismological Observatory
Faculty of Science, Hokkaido University

Japan

Urakawa Seismological Observatory

Station: Kamikineusu (KMU)

Location Latitude: $42^{\circ}14'19''$ N, Longitude: $142^{\circ}58'02''$ E, Height: 185 m.Instruments

	Aobr.	Comp	T_s (sec)	h_s	T_g (sec)	h_g	δ^z	V_{max}^*
Film-recording Seismograph	N	N-S	0.94	0.70	0.28	3.1	0.003	15,000
	E	E-W	0.93	0.73	0.25	3.0	0.003	15,000
	Z	U-D	0.91	0.70	0.34	1.8	0.003	19,000
	ZX	U-D	0.89	2.02	0.30	1.4	0.018	120,000
Tape-recording Seismograph	T-1	U-D	1.0	1.4	1.4 } forming a tripartite array	1.4 }	1.4 }	1.4 }
	T-2	U-D	1.0	1.4				
	T-3	U-D	1.0	1.4				

* When measured on a film-viewer or magnification 6.

For magnification curves see No. 3 of this bulletin.

Readings

(1) All earthquakes with maximum trace amplitude 0.5 mm or larger on the Z records measured on the X6 film-viewer are interpreted and listed in this bulletin, though many smaller shocks are recorded clearly on the ZX records and the magnetic tapes.

(2) Times of P and other phases except S are indicated using the Japanese Standard Time (JST).

JST = GMT + 9 hours.

Times of S phases can be obtained by adding P-S to times of P. A mark i attached to the figures indicating P-S means that the corresponding S phase is iS.

(3) Amplitudes are the trace amplitudes for the maximum waves in the Z, N, and E records measured on the film-viewer. When the maximum waves appear in P or other phases except S, the names of the phases are attached to the figures indicating the periods of the maximum waves.

(4) Figures in the column "Initial motion" indicate the directions and amplitudes of the initial motions of P waves in the ZX records measured on the film-viewer. A plus sign means upward or compressional motion.

(5) Communications relating to this bulletin should be addressed to the director, Urakawa Seismological Observatory, Kamikineusu, Urakawa, Hokkaido, Japan.

Note

The data on earthquakes on May 16 and 17 are not complete due to overlapping of numerous aftershocks of a large earthquake off the southern coast of Hokkaido. These are attached to the end of this number.

Kamikineusu, April 1968

Date	Phase	Time(JST)			P-S	Amplitude(mm) • Period(sec)						Initial motion(mm)		
		h	m	s		Z	N	E						
1	iPZX	09	26	13.9		15.1	3.0	0.9	3.6	0.5	2.9	0.6	+0.4	
1	ePZX	09	45	05.5										
	eX1N	45	22.7											
	eX2N	48	30		2	27	12.4	15.4X2	22.3	15.5X2			(+)	
1	iPZX	11	03	38.1		23.9i	>30		>40		>25		+3.8	
1	iPZX	12	44	48.5		09.6	1.0	0.4	1.5	0.3	1.3	0.6	+1.8	
1	ePZX	13	31	58.6										
	iXZX	33	21.9			57.6	1.7	0.7X	1.5	0.7X	1.1	0.6X		
1	ePZX	14	40	16.1										
	iXZX	40	19.0			10.6i	0.7	0.3	2.3	0.4	1.6	0.3		
1	ePZX	16	16	25.3										
	eX1ZX	16	37.5											
	eX2ZX	20	30		1	48	1.9	1.3X1	1.8	1.3X1	1.3	1.4X1		
2	ePZX	07	21	37.6		21.3	0.9	0.6	1.9	0.4	1.6	0.4		
2	ePZX	20	50	25.8		1 02.7	0.6	1.5	0.7	1.0	0.7	1.3		
2	ePZX	22	34	02.3		30.5	0.8	0.6	1.3	0.5	0.8	0.6		
2	iPZ	23	26	56.1		08.1	>10		>15		>10		+6.2	
3	ePZX	01	29	24.3		23.9i	2.3	0.5	2.5	0.7	3.7	0.4		
3	iPZX	02	54	49.9		16.9i	22.4	0.8	31.9		21.0		+0.6	
3	iPZ	06	46	49.4		09.0i	>25		>30		>25		-3.0	
3	ePZX	07	02	39.6		1 04.0	0.5	0.8	0.8	0.7	0.6	0.7		
4	ePZX	01	29	51			0.7	1.3P	0.7	1.2P	0.7	1.2P		
4	ePZX	19	55	58.5			0.5	1.0P	0.5	1.0P	0.3	1.0P		
5	ePZX	07	38	57.1		28.7i	2.2	0.6	3.0	0.7	2.4	0.7		
5	ePZX	08	15	21.6		1 49.0	0.7	0.6P	0.6	0.6P	0.5	0.7S		
6	ePZX	01	55	00.8		1 39.6	2.1	0.9	3.6	0.9	2.7	1.0		
6	ePZX	02	37	15.7		32.0	2.4	0.6	4.9	0.4	3.0	0.5		
6	ePZX	04	01	54.4		1 43.2	0.5	0.7	0.7	0.9	0.5	0.8		
6	ePZX	05	23	55.7		21.2	0.9	0.7	1.4	0.4	1.1	0.8		
6	ePZX	07	08	38.2		2 18.5	0.8	0.8	1.0	0.7	1.1	1.0		
6	iPZX	07	37	05.7		06.0	0.5		0.8	0.3	0.5	0.5		
6	iPZX	12	57	12.2		11.2	0.9	0.5	1.9	0.5	1.4	0.7	+0.6	
6	ePZX	17	30	18.5		08.9	4.9	0.5	16.7	0.4	8.4			
6	iPZX	18	42	03.5		14.7	1.3	0.4	2.5	0.4	1.1	0.3	(+)	
7	ePZX	03	29	11.2		55.2	1.9	1.0	1.8	1.1	1.4	1.2		
7	ePZX	11	48	41.3		47.6	8.9	0.8	11.7	0.7	9.2	0.7		
7	ePZX	12	37	39.9		11.6	3.3	0.6	6.1	0.4	3.4	0.6		
7	ePZX	13	45	37.4			0.8	0.8P	0.8	1.2P	0.8	0.8P		
7	ePZX	15	29	50.2										
	eXZX	31	59.8		1 36.1	0.7	0.9X	1.3	0.9X	0.7	1.0X			
7	ePZX	20	01	00.6		1 03.8	0.8	1.0	1.0	0.8	0.8	0.9		
7	ePZX	20	10	09.8		38.9	1.8	0.5	3.9	0.5	1.8	0.5		
8	ePZX	09	24	47.9		34.9	0.8	0.8	1.5	0.7	0.8	0.7		
9	ePZX	04	40	04.6		47.5	0.5	0.7	1.4	0.6	0.7	0.6		
9	ePZX	09	18	44.4		37.8	7.6	0.6	15.1	1.0	>8			
9	iPZX	11	40	45.8			0.8	0.9P	0.5	1.6P	0.5	1.8P	+1.0	
9	ePZX	21	47	57.3		40.6i	2.2	0.3	8.8	0.4	>3			
9	ePZX	23	23	59.5		37.2	2.8	0.3	2.6	0.8	2.6	0.7		
10	ePZX	04	02	54.2		55.8	0.9	0.8	2.0	0.8	1.6	0.8		
11	ePZX	01	17	52.0		32.3	1.7	0.8	2.0	0.7	1.6	0.7		
11	iPZ	05	36	59.4		07.3i	8.9	0.5	15.3	0.3	6.1		-4.0	
11	ePZX	06	55	02.3		12.4	0.5	0.9	0.7	0.6	0.4	0.8		
11	ePZX	09	29	47.1		43.0	1.0	0.7	1.9	0.8	1.1	0.7		
11	ePZX	12	25	56.2		22.0	0.5	0.6	0.8	0.5	0.5	0.7		
11	ePZX	14	34	53.6		38.8	0.5	0.6	0.6	0.7	0.3	0.8		
11	iPZX	15	48	34.3										
	eXZX	50	07.0		1 38.9i	7.4	0.7P	5.0	0.8P	3.6	1.3S	-1.9		
12	ePZX	10	56	21.8		32.3	0.6	0.6	1.2	0.6	0.7	0.7		
12	ePZX	21	13	31.4										
	eXZX	15	22.3		1 36.1	0.6	0.9X	0.9	1.2X	0.6	1.3X			
12	eXZX	22	06	44.5			0.5	1.0X	0.5	1.0X	0.3	1.1X		

Kamikineusu, April 1968

Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Initial motion(mm)	
				h	m	s	Z	N	E		
13	ePZX	02 38 00.1	1 31.3	0.8	0.7	0.9	0.8	0.7	0.7		
13	ePZX	07 23 48.4									
	iXZX	23 49.9	46.1	0.8	0.4	2.2	0.4	0.9	0.4		
14	iPZX	06 06 45.9	05.9i	5.5	0.5	33.0	0.3	>20		+1.8	
14	iPZX	06 26 28.6	23.2	3.8	0.5	5.2	0.8	4.0	0.7	-0.8	
14	ePZX	17 39 15.0	1 34.4	3.5	1.1	7.4	1.2	3.7	1.0		
14	iPZX	22 07 11.0	1 33.7	3.5	1.0	5.2	1.1	3.4	0.9	-1.2	
15	ePZX	00 07 16.8	11.8	0.6	0.7	0.7	0.4	0.5	0.6		
15	ePZX	01 21 47.3	06.1i	0.6	0.3	3.4	0.2	1.2	0.2		
15	ePZX	02 52 56.8									
	iXZX	52 58.7									
	iXZX	53 10.6									
15	ePZX	05 11 58.6	51.2	0.9	0.6	1.3	0.4	0.7	0.6		
15	ePZX	02 28 45									
16	iPZX	10 03 27.0	14.0	2.3	0.6	5.8	0.5	4.7	0.4		
16	iPZX	16 12 20.4	08.2i	5.1	0.5	11.3	0.5	5.0	0.4	+7.6	
17	iPZX	01 13 39.2									
	iXZX	13 41.0	05.9	4.8	0.5	13.9	0.3	7.1	0.5	-0.6	
17	ePZX	05 51 13.7	13.1	0.5	0.5	1.1	0.4	1.1	0.5		
17	ePZX	09 58 39.0	31.5	2.9	0.6	4.6	0.8	3.3	0.8		
17	ePZX	12 32 06.8	40.8	0.5	0.8	0.8	0.5	0.6	0.6		
17	iPZX	21 54 26.9	20.6	1.8	0.5	4.0	0.3	2.3	0.4	+1.2	
18	ePZX	00 26 16.8	13.8	1.4	0.8	3.4	0.4	1.9	0.4		
18	ePZX	07 15 02.8	20.4	1.6	0.6	3.1	0.3	2.4	0.5		
18	iPZX	17 17 12.3	09.4	1.2	0.5	2.2	0.4	1.6	0.6		
18	ePZX	19 06 21.1	23.8	0.6	0.8	1.0	0.5	0.5	0.6		
20	ePZX	04 44 26.1	34.3	1.4	0.5	2.1	0.7	1.4	0.6		
21	iPZX	17 34 55.2									
	iXN	35 14.8	42.2	S0		S0		S0		+2.2	
21	ePZX	19 24 13.7									
	iXZX	24 16.5									
	eXZX	24 53.8	45.5	1.6	0.4P	2.6	0.6S	1.8	0.7S		
21	ePZX	20 18 42.6	16.7	1.0	0.7	1.2	0.6	0.9	0.6		
21	ePZX	21 35 58.1	40.7	1.7	0.8	2.4	1.1	1.9	1.2		
21	ePZX	22 41 06.6	36.8i	1.7	0.8	2.2	0.9	1.9	0.9		
22	ePZX	01 49 11.8	41.4	0.8	1.1	1.7	0.5	0.7	0.9		
22	ePZX	02 42 46.8	40.9	3.2	1.2	5.1	1.0	4.8	1.0		
22	iPZX	04 36 57.5	40.5	2.4	0.6	4.4	0.7	2.1	0.4	+0.6	
22	ePZX	19 15 24.7									
	iXZ	15 27.3	30.7	4.9	0.4X	2.5	0.3S	2.8	0.5S		
23	ePZX	06 42 05.1	1 05.8	3.4	0.9X	3.8	0.9X	3.7	0.9X		
23	ePZX	03 34.4									
23	ePZX	06 54 30.0	46.2	0.7	0.8	0.8	0.8	0.8	0.9		
23	ePZX	10 56 32.4	42.2	0.9	0.9	1.4	0.9	0.8	0.8		
23	iPZX	22 14 03.4	07.2	2.2	0.4	2.8	0.5	>4		-2.8	
23	ePZX	23 16 32.8	21.5	1.7	1.1	2.0	0.9	2.1	0.9		
24	ePZX	04 12 06.9	37.8	1.4	0.6S	2.0	0.4S	1.3	0.9P		
24	iPZX	04 20 15.0								+0.6	
24	iPZX	05 37 18.1									
	iXZX	39 06.2									
	iXZX	39 13.8									
24	ePZX	06 35 41.6	38.5	2.2	1.0	2.4	0.8	2.1	1.0		
24	ePZX	16 12 20.9									
	eXZX	13 18.7	41.0	0.5	0.7	0.6	0.5	0.4	0.7		
26	ePZX	03 50 59.2	37.0	0.5	0.6	1.6	0.7	0.7	0.7		
26	iPZX	08 17 46.9	09.4i	11.4	0.6	14.3	0.6	10.0	0.5		
26	ePZX	13 38 49.8	22.2	0.7	0.7	0.8	0.6	0.5	0.5		
26	ePZX	15 31 10.2	26.8	2.6	0.9	5.3	1.0	3.8	0.9		
26	ePZX	18 37 06.7	33.0	0.6	0.7	1.6	0.5	0.5	0.5		
26	ePZX	20 12 29.0	37.6i	12.2	0.8	37.9	1.0	>20			
26	ePZX	22 22 22.4	58.2	21.1	1.0	28.6	0.9	19.4	0.9		

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Initial motion(mm)	
				h	m	s	Z	N	E		
27	ePZX	00 11 30.4					1.7	1.5P	0.9	2.0P	0.7 1.4P
27	ePZX	13 32 03.1	36.9	0.5	0.9	0.5	0.8	0.4	0.7		
27	ePZX	23 48 01.2									
	eXZX	49 16.4	42.4	2.4	0.8X	2.2	0.8X	2.4	1.0X		
28	ePZX	13 23 18.2					1.2	1.1P	0.8	1.4P	0.4 1.6P
28	iPZX	19 07 10.2									
	iXZ	07 14.6	13.4	12.8	0.5S	18.0	0.4S	>10	P	+2.6	
28	iPZX	23 08 22.9	08.7	5.8	0.5	>13		>8		+12.6	
29	iPZX	13 40 32.5	13.0	3.3	0.3P	2.2	0.4S	1.5	0.6P	(+)	
29	ePZX	15 05 48.6	45	0.5	1.2	0.5	1.1	0.5	1.3		
30	ePZX	10 46 35.9									

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)	
			h	m	s	Z	N	E		
7	iPZX	23 29 51.8				11.7	0.9 0.2X	0.8 0.3S	0.3 0.4S	+2.2
	iZKZ	29 54.0								
8	ePZX	13 24 34.5				19.0	0.5 0.6	1.1 0.5	0.6 0.5	
8	ePZX	21 27 31.4					1.5 2.0P	1.2 2.2P	0.8 2.1P	
9	ePZX	06 44 23.3				19.1	0.8 0.7	1.0 0.4	0.9 0.6	
9	ePZX	08 26 54.6				43.0	0.9 0.9	1.4 1.3	1.1 1.0	
9	iPZX	08 53 57.5				10.6	0.7 0.6	1.3 0.6	0.7 0.5	-0.8
9	ePZX	10 23 21.3				35.6	0.7 0.7	1.3 0.5	0.7 0.6	
9	iPZX	11 59 51.3				08.4	2.2 0.6	3.7 0.4	2.3 0.5	-2.2
9	iPZX	21 24 30.0				11.5	1.1 0.6	1.4 0.3	0.9 0.3	-2.0
10	iPZX	04 23 14.0				1.2 23.6	1.5 0.3P	1.9 0.5S	1.2 0.3S	+1.4
10	ePZX	19 20 16.0								
	iZK	20 24.7				36.5	12.9 0.6	27.2 0.7	15.2 0.3	
11	ePZX	21 23 51.7				19.1	1.4 0.5	2.0 0.6	1.7 0.7	
12	ePZX	00 42 19.4					0.7 1.0X	0.9 1.5X	0.9 2.0X	
	iZKZ	42 31.2								
12	ePZX	00 49 02.0				1.5 59.9	2.0 0.5P	1.2 0.7S	1.1 0.5S	
12	ePZX	08 00 48.3				58.8	1.9 0.7	2.1 0.9	2.3 0.8	
12	iPZ	12 12 30.5				09.41	10.1	43.4 0.5	>15	-9.0
12	ePZX	17 48 43.9								
	eZKZ	49 12.4					0.7 0.9X	1.1 1.0X	0.7 1.2X	
13	ePZX	19 36 35.9				51.9	0.8 0.9	1.8 0.9	1.5 0.9	
14	ePN	19 30 04.8				10.4	0.9 0.6	1.5 0.5	1.5 0.4	
14	ePZX	20 30 23				21	1.7 0.4	4.5 0.3	2	
14	ePZX	22 34 38.7				22.9	0.9 0.6	1.6 0.6	1.3 0.6	
14	iPZX	23 08 46.7				3 02.4	8.8 0.7P	4.4 0.7P	3.3 0.8P	+7.0
15	iPZX	03 19 08.2				11.0	3.8 0.4	5.2 0.5	2.7 0.4	+8.2
15	iPZX	04 58 01.0				1.5 0.3	5.4 0.3	2.3 0.4	-7.4	
15	ePZX	08 24 46.9				1 00.1	2.1 1.0	3.1 0.9	2.0 0.8	
16	eZKZ	00 12 45.3					0.7 1.4X	0.6 1.5X		
16	iPZX	09 49 23.6					SO	SO	+17.6	
** cf. page 95										
17	ePZX	09 49 54.3				09.4	0.5 0.8	0.7 0.6	0.5 0.6	
17	ePZX	09 51 49.5				10.5	0.6 0.8	0.8 0.5	0.5 0.5	
17	ePZX	09 54 50.3				10.41	1.1 0.4	2.4 0.3	1.9 0.4	
17	ePZ	09 56 37.2				14.5	4.9 0.6	>5	>6	
17	eSN	09 57 50.8					1.8 0.6	4	1.9 0.4	
17	ePN	09 59 43.2				10.7	3.2 1.0	4.0 1.0	>3	
17	ePZX	10 05 30.6				09.6	0.9 0.6	1.9 0.4	1.9 0.4	
17	eSN	10 05 57					1.0 0.4	1.9 0.4	1.2 0.4	
17	ePZX	10 11 35.3				11.8	5.3 0.6	8.9 0.5	5.3 0.7	
17	ePZX	10 14 05.1				11.1	1.3 0.5	1.7 0.4	1.2 0.4	
17	ePZX	10 20 44.6				13.5	0.5 0.7	0.9 0.4	0.8 0.4	
17	ePZX	10 22 40.2				19.1	0.7 0.5	1.8 0.3	1.1 0.3	
17	eSN	10 23 22.5					0.9 0.6	1.0 0.5	0.9 0.5	
17	iSN	10 25 21.8					0.6 0.5	1.1 0.3	0.9 0.4	
17	ePZX	10 26 05.4				14.3	4.0 0.6	5.7 0.9	4.6 0.7	
17	eSN	10 28 05.2					2.5 0.7	>3	3.0 0.5	
17	ePZX	10 29 49.2				15.4	2.1 0.5	2.8 0.6	3.2 0.6	
17	ePZX	10 31 31.3				11.9	0.6 0.5	1.0 0.3	0.7 0.5	
17	eSN	10 31 57.8					0.9 0.6	1.3 0.4	1.1 0.5	
17	ePZX	10 32 41.1				09.41	1.3 0.5	3.9 0.2	>2	
17	ePZX	10 38 09.3				21.2	2.1 1.1	3.4 0.8	3.1 1.3	
17	iPZX	10 40 35.4				09.21	0.8 0.5	1.5 0.5	1.0 0.7	-1.8
17	ePZX	10 41 21.6				12.2	2.9 0.6	3.7 0.6	2.9 0.7	
17	iPZX	10 41 56.0				08.9	0.8 0.5	1.5 0.4	1.0 0.5	+5.0
17	iPZX	10 42 47.1				12.7	5.7 0.6	6.6 0.4	>7	-4.2
17	eSN	10 45 58					1.7 0.7	2.6 0.4	1.8 0.8	
17	eSN	10 46 41.2					0.9 0.5	1.8 0.5	1.0 0.6	
17	ePZX	10 50 56.1				10.6	1.4 0.5	2.3 0.4	2.5 0.5	
17	iPZX	10 53 13.1				10.0	3.8 0.5	4.6 0.6	>4	-1.6
17	eSN	10 54 16.3					0.8 0.5	2.5 0.6	1.7 0.3	

Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)	Initial motion(mm)	Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)	Initial motion(mm)	
		h	m	s				h	m	s		
17	ePZX	10 57 47.7		09.2		17	ePZX	10 58 16.2		1.8 0.6	>6	2.2 0.4
17	eSN	10 58				17	iPZX	10 58 37.9		1.8 0.7	2.4 0.2	1.1 0.5
17	ePZX	11 00				17	eSN	11 00 07.5		1.0 0.6	1.4 0.6	1.1 0.5
17	ePZX	11 03				17	ePZX	11 03 31.0		0.5 0.7	1.0 0.5	0.4 0.5
17	ePZX	11 05				17	iPZX	11 10 13.5		0.7 0.5	1.3 0.3	1.2 0.5
17	ePZX	11 15				17	ePZX	11 18 20.7		1.2 0.6	2.1 0.4	1.4 0.4
17	iPZX	11 20				17	ePZX	11 20 12.0		0.6 0.6	1.0 0.3	0.5 0.5
17	iPZX	11 23				17	ePZX	11 23 03.0		3.5 0.4	4.	

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)				Initial motion
				h	m	s	Z	
17	iSN	13 15 52.8		0.7	0.6		1.7 0.6	0.8 0.6
17	eSN	13 16 07		0.7	0.8		1.3 0.8	0.7 0.8
17	ePZX	13 17 22.2	12.1	1.9	0.5		3.7 0.6	2.4 0.6
17	eSN	13 18 57.3		1.4	0.7		1.1 0.7	0.9 0.6
17	ePZ	13 19 10.4	08.9	6		10	10	
17	eSN	13 20 19.1		4.0	0.6		3.8 0.6	3
17	ePZX	13 21 13.9	06.8	7		10	8	
17	ePZX	13 23 26.6	11.2	1.9	0.5		2.2 0.3	1.8 0.3
17	ePZX	13 32 49.3	11.9	6.4	0.7		8.5 0.7	6.0 0.8
17	ePZX	13 37 01.2	15.7	6.7	0.8		8.5 0.6	6
17	eSN	13 41 27.0		0.6	0.5		1.1 0.4	0.5 0.5
17	ePZX	13 46 20.5	10.8	1.4	0.6		2.3 0.7	3
17	ePZX	13 48 27.3	13.1	1.0	0.7		1.1 0.8	
17	eSN	13 49 33.6		0.7	0.6		0.7 0.7	0.2 0.6
17	eSN	13 49 52.6		1.0	0.7		1.7 0.7	1.5 0.7
17	eSN	13 50 38.5		1.2	0.6		4.6 0.5	
17	ePZX	13 51 38.1	09.81	0.8	0.5		2.2 0.8	2
17	ePZX	13 52 17.5	18.1	1.6	0.7		1.5 0.6	1.6 0.6
17	ePZX	13 55 40.9	09.9	3.4	0.6		4.4 0.4	2
17	ePZ	13 56 10.3	09.2	4.7	0.7		10	7
17	ePZX	13 57 47.0	12.5	1.8	0.6		4.8 0.5	2.9 0.7
17	eSN	13 58 19.9		3.4	0.6		2.8 0.6	1.8 0.6
17	ePZX	13 59 58.9	09.21	3.5	0.5		5.1 0.4	4.6 0.5
17	eSN	14 00 13.3		0.6	0.7		0.7 0.5	0.5 0.5
17	ePZ	14 01 23.7	32.3	2.0	1.4		2.4 0.4	1.7 1.4
17	ePZ	14 02 39.1	11.8	0.7	0.6		1.0 0.5	0.8 0.5
17	ePZX	14 04 32	33	3.0	1.2		4.6 1.2	3.4 1.0
17	eSN	14 04 57.3		1.8	0.5		1.9 0.4	1.3 0.4
17	ePZ	14 07 42	17					
17	ePZ	14 12 01.5	12.8	7			9.5 0.6	7
17	eSN	14 15 05.7		8		10	9	
17	eSN	14 16 22.3		0.7	0.6		0.8 0.5	0.4 0.7
17	eSN	14 19 45.8		0.7	0.6		1.3 0.4	1.5 0.5
17	ePZ	14 20 23	12	10		10	10	
17	ePVX	14 22 11.0	15.7	1.1	0.6		3.0 0.5	1.1 0.6
17	ePZX	14 31 03.9	08.1	1.3	0.6		3.2 0.3	1.6 0.3
17	ePZ	14 40 52.4	15.4	2.9	0.7		4.2 0.7	2.5 0.7
17	ePZ	14 43 15	17	1.2	1.1		1.6 0.9	1.6 1.3
17	eSN	14 44 08.0		2.1	0.8		4.7 0.7	2.5 0.9
17	ePZ	14 45 14.5	08.9	0.6	0.6		0.7 0.4	0.5 0.4
17	ePZX	14 46 17.2	10.9	0.6	0.5		1.0 0.4	0.7 0.6
17	ePZ	14 47 21.5	09.9	0.7	0.5		1.4 0.5	0.8 0.4
17	ePZX	14 51 16.6	12.1	0.7	0.7		1.7 0.3	0.8 0.5
17	ePZ	14 54 50.9	15.5	1.1	0.6		1.7 0.6	1.2 0.4
17	ePZ	14 58 34.9		5		12	7	-1.8
17	ePZ	14 57 39.2	08.2	7		10	8	
17	ePZ	15 03 36.0	14.3	0.5	0.6		0.6 0.3	0.3 0.5
17	eSN	15 04 29.3		0.5	0.7		0.9 0.8	0.5 0.6
17	ePZX	15 04 45.8	10.0	1.1	0.5		1.8 0.4	1.4 0.6
17	ePZX	15 07 41.6	15.7	0.7	0.5		1.4 0.6	0.5 0.6
17	eSN	15 09 15.3		0.8	0.5		0.9 0.5	0.9 0.6
17	eSN	15 07 20.4		0.6	0.6		0.9 0.3	0.7 0.4
17	eSN	15 20 01.4		0.6	0.7		1.1 0.4	0.4 0.5
17	ePZX	15 12 20.6	12.1	2		5	3	
17	ePZX	15 18 45.0	09.2	5		8	5	
17	eSN	15 19 41.7		4.3	0.8		6.8 0.7	5
17	ePZ	15 20 32.7	10.5	6		10	5	
17	ePVX	15 22 12.5	09.4	0.5	0.8		1.0 0.4	0.7 0.5
17	ePZ	15 25 20.5	7.1	0.2	1.1		8	9
17	ePZ	15 30 60.1	11.1	13.0		25	10	+1.8
17	eSN	15 31 51.0		0.9	0.6		3.0 0.3	1.6 0.6
17	ePZ	15 36 00.3	16.1	2.1	0.6		3.2 0.5	2.5 0.7
17	eSN	15 38 41.4		1.8	0.6		2.2 0.6	2.7 0.6
17	eSN	15 37 07.1		1.2	0.7		2.6 0.4	1.1 0.6
17	ePZ	15 38 21.8	11.7	0.8	0.7		1.3 0.5	0.9 0.7

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)				Initial motion(m)	
				h	m	s	Z		
17	ePZX	15 39 59.9	12.1		1.5	0.3	5.3	0.3	1.5 0.5
17	ePZX	15 42 20.4	12.6	>3			>5		>3
17	ePZX	15 46 07.6	09.2		5.5	0.6	8.9	0.6	>5
17	iSN	15 47 21.1					1.0	0.6	2.5 0.5
17	ePZX	15 48 39.3	09.2		0.6	0.6	1.4	0.7	0.8 0.6
17	ePZX	15 54 21.9	09.6		1.0	0.5	2.5	0.3	1.9 0.3
17	ePZX	15 58 42.9	13.0		0.5	0.5	1.1	0.3	1.4 0.4
17	eSN	15 59 54			0.7	0.7	1.2	0.8	0.7 0.1
17	ePZX	16 00 38.2	14.7		7.5	0.6	>8		>5
17	eSN	16 03 49.0			0.6	0.5	0.9	0.2	0.5 0.5
17	ePZX	16 05 18.8	09.4		4.4	0.7	>5		>4
17	ePZ	16 07 32.9	09.6	>8			>10		>7
17	eSN	16 08 33		>5			>5		>5
17	iPZ	16 12 47.2	03.5						-1.4
17	eSN	16 15 48.5			0.8	0.6	1.8	0.6	1.1 0.5
17	eSN	16 16 54.4			0.6	0.6	1.9	0.3	0.5 0.3
17	ePZX	16 30 56.7	11.0		1.7	0.6	1.9	0.8	1.5

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Initial motion(mm)		
				h	m	s	m	s	Z	N	E	(-)
18	iPZX	05 14 33.4		16.1	>10		>14		>10	0.7	0.5	
18	ePZX	05 19 59.0		03.8	0.8	0.8	0.8	0.5	1.0	0.6		
18	ePZX	05 21 14.9		13.2	0.7	0.7	0.9	0.4	1.2	0.5		(+)
18	iPZX	05 26 23.9		10.5					0.5	0.2		
18	ePZX	05 27 15.1		12.7	0.5	0.4	1.5	0.3	1.3	0.5		
18	ePZX	05 28 00.9		11.5	0.5	0.5	2.5	0.4	0.4	0.6		
18	ePZX	05 29 32.8		12.0	0.6	0.6	0.8	0.4	1.2	0.9		
18	ePZX	05 30 16		14	1.2	1.2	1.8	0.9	1.2	0.9		
18	ePZX	05 32 40.1		13.9	0.7	0.6	1.0	0.2	0.7	0.4		
18	eSN	05 35 15.4			0.6	0.6	0.7	0.4	0.5	0.5		
18	ePZX	05 35 44.2										
18	eXN	05 36 08.9		09.6	0.9	0.7X	1.1	0.4X	0.9	0.9X		
18	ePZX	05 36 39.0		10.5	1.8	0.7	2.3	0.6	2.1	0.7		
18	ePZX	05 41 55.4		15.8	4.4	0.9	7.3	0.7	3.7	0.7		
18	iPZX	05 47 00.8		08.61	4.4	0.7	11.6		5.3	0.5		(+)
18	iPZX	05 49 37.0		09.9	>7		>10		>7			(+)
18	eSN	05 50 58.2			1.1	0.6	1.7	0.4	0.8	0.3		
18	ePZX	05 51 33.2		09.0	0.6	0.6	2.1	0.2	1.0	0.2		
18	ePZX	05 56 43.0										
18	eXIN	05 57 06.8										
18	eXZN	05 57 15.6										
18	eXZ	05 57 38.0			9.9	1.6X3	13.0	2.4X2	11.0	2.0X3		
18	ePZX	05 59 43.1		10.2	3.1	0.6	3.6	0.7	2.3	0.4		
18	iPZX	06 03 11.5		14.91			SO		SO		-3.2	
18	iPZX	06 08 40.0		10.6	>15		>15		>10		-3.4	
18	ePZX	06 15 33.0		09.01	0.7	0.5	2.0	0.2	1.3	0.3		
18	iPZX	06 23 34.0		09.11	7.7	0.7	10.0	0.5	5.2	0.6		(-)
18	ePZX	06 25 03.9		14.6	0.7	0.5	1.1	0.3	0.8	0.4		
18	ePZX	06 35 49.2										
18	iXZX	06 35 50.8		11.2	1.5	0.5	2.2	0.4	1.6	0.5		
18	ePZX	06 47 41.0		09.0	0.5	0.6	0.9	0.3	0.5	0.3		
18	iPZ	06 52 35.0		09.21	5.7	0.6	9.1	0.4	5.7	0.6	-1.0	
18	ePZX	07 02 30.1		11.7	1.6	0.6	3.1	0.2	2.1	0.3		
18	eSN	07 03 13.8			1.0	0.7	2.7	0.4	1.2	0.4		
18	ePZX	07 11 16.4		14.7	1.0	0.6	1.8	0.6	1.2	0.4		
18	eXZX	07 17 12.7			0.7	0.7X	1.2	0.3X	0.5	0.5		
18	ePZX	07 21 37.5		20.71	2.2	0.4	4.0	0.3	3.0	0.4	+3.6	
18	iPZ	07 36 42.3										
18	iXIN	07 36 51.3										
18	iXZN	07 37 03.7			SO		SO		SO			
18	ePZ	07 40 13.2										
18	iPZX	07 47 26.3		13.0	3.7	0.5	4.3	0.4	2.9	0.4		
18	ePZX	07 49 09.5			1.8	1.7P	2.4	0.7P	1.3	0.9P	-2.8	
18	iPZX	07 53 01.9		09.3	2.7	0.6	4.7	0.4	3.0	0.6		(-)
18	ePZX	07 54 56.9		11.9	0.5	0.4	1.3	0.4	0.7	0.3		
18	ePZX	08 05 07.1		16.1	2.8	0.6	3.9	0.4	3.8	0.4		
18	ePZX	08 09 27.6		14.9	>20		>25		>20			
18	ePZX	08 12 53.1		12.4	1.2	0.8	1.5	0.4	1.5	0.7		
18	ePZX	08 17 44.2		24.5	>15		>20		>20			
18	ePZX	08 22 21.7		19.6	0.7	0.4	1.0	0.4	0.7	0.5		
18	ePZX	08 23 40.9		11.8	0.5	0.6	0.5	0.4	0.5	0.5		
18	eSN	08 27 27			0.5	0.6	0.6	0.4	0.5	0.3		
18	ePZX	08 27 51.8		16.3	2.1	0.6	2.5	0.6	2.3	0.7		
18	ePZX	08 31 23.0		09.6	0.5	0.5	0.8	0.3	0.4	0.3		
18	eXZ	08 31 45			0.7	0.7X	1.0	2.0X	0.9	0.8		
18	ePZX	08 43 23.2		11.8	9.0	0.6	>10		9.5	0.5		
18	ePZX	08 46 59.0		12.5	2.1	0.8	2.6	0.5	2.2	0.6		
18	iPZX	08 48 18.2		07.7	2.1	0.5	2.7	0.4	2.4	0.4	-5.4	
18	ePZX	08 52 09.5		13.1	0.9	0.7	1.3	0.6	0.6	0.5		
18	iPZX	08 54 08.2		09.71	2.1	0.7	4.6	0.3	1.8	0.4		(-)
18	eSN	08 54 38.3			1.5	0.6	3.1	0.4	1.4	0.5		
18	ePZX	08 55 40.4		12.6	0.5	0.5	0.7	0.4	0.4	0.5		
18	iPZX	08 57 29.0		11.0	4.2	0.5	9.0	0.4	3.8	0.6	-1.8	
18	eSN	08 58 15.8			2.3	0.7	2.4	0.5	2.0	0.7		
18	eSN	08 58 45.3			1.3	0.6	2.6	0.5	1.8	0.7		
18	ePZX	09 07 39.0		11.0	1.0	0.5	2.2	0.3	1.6	0.5		
18	eSN	09 08 37.8			1.0	0.8	1.4	0.7	1.2	0.7		

Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Initial motion(mm)
				h	m					

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)
			h	m	s	Z	N	E	
18	ePZX	13 46 13.0	16.0	0.7	0.5	1.4	0.6	0.5	0.7
18	ePZX	13 50 55.2	13.3	0.5	0.5	0.9	0.5	0.3	0.4
18	iPZ	13 51 24.2				SO	SO	SO	+7.1
18	iPZX	13 56 13.8	08.51			SO	SO	SO	+8.5
18	ePZX	14 06 41.8	10.2	0.5	0.5	2.1	0.2	0.4	0.3
18	iPZX	14 07 57.7	10.01	8.5	0.6	15.1	0.5	5.5	0.9
18	iPZX	14 14 55.5	12.11	8.0	0.6	(12)	0.7	>2	+1.8
18	iPZX	14 20 52.2	09.41	9.8	0.8	13.3	0.6	5.5	0.8
18	ePZX	14 27 02	09	0.8	0.5	1.1	0.4	0.4	0.7
18	ePZX	14 31 15.7							
18	eXZ	31 22.0				0.8	0.5X	1.0	0.5X
18	ePZX	14 32 44.5	11.0	0.5	0.4	0.9	0.5	0.3	0.7X
18	iPZ	14 44 50.9	12.6			SO	SO	SO	-2.7
18	ePZX	14 50 04.6	11.9	0.5	0.4	1.2	0.3	0.3	0.3
18	ePZX	14 51 31.5	20.0	0.7	0.8	0.9	0.5	0.4	-0.6
18	iPZX	15 08 11.5	13.01	1.2	0.7	2.2	0.3	0.7	0.3
18	ePZX	15 09 23.0	17.0	1.0	0.7	1.2	0.7	0.4	0.6
18	ePZX	15 18 47.6	08.9	0.9	0.6	1.3	0.3	0.5	0.6
18	ePZX	15 23 17.2	23.8	1.3	0.7	1.9	0.7	0.7	0.6
18	eXZ	15 24 31				0.6	0.5X	0.8	0.5X
18	iPZX	15 25 23.4	12.1	6.2	0.6	10.5	0.6	>2	+4.8
18	iPZX	15 29 14.1	12.91	0.6	0.5	1.2	0.3	0.3	0.3
18	ePZX	15 34 16.2	25.6	1.2	0.6	1.7	0.7	0.8	0.7
18	ePZX	15 42 51.3							
18	eXZ	43 11.5				2.6	0.9X	1.9	1.0X
18	iPZX	15 44 55.7	12.4	1.7	0.5	3.0	0.4	1.2	0.5
18	iPZX	15 46 12.2	15.11	2.5	0.5	2.9	0.5	1.0	0.6
18	eSN	15 49 11.9		0.5	0.7	0.9	0.3	0.3	0.7
18	iPZ	15 51 14.0	13.3			SO	>25	>10	+2.6
18	ePZX	15 53 10.0	08.6	0.7	0.5	1.4	0.5	0.4	0.6
18	ePZX	15 54 21.5	14.6	1.3	0.6	1.5	0.7	0.7	0.8
18	ePZX	16 00 46.7	10.9	0.7	0.7	1.0	0.5	0.4	0.5
18	ePZX	16 02 12.4	13.5	0.5	0.6	1.1	0.5	0.3	0.5
18	iPZ	16 04 47.4	12.8	18		32.5		SO	-2.3
18	ePZX	16 09 47.0	11.8	2.1	0.6	3.7	0.5	2.8	0.5
18	iPZX	16 26 07.7	10.4	0.6	0.5	1.4	0.3	0.7	0.6
18	iPZX	16 44 00.8	09.4	1.6	0.6	3.2	0.2	>2	+
18	ePZX	16 48 25.6	10.41	1.0	0.4	2.7	0.3	2.0	0.6
18	ePZX	17 01 20.5	10.01	0.9	0.6	1.2	0.7	1.4	0.4
18	iPZX	17 04 53.2	14.3	2.0	0.5	3.3	0.6	2.0	0.7
18	iPZX	17 05 55.6	13.81	1.8	0.5	6	0.3	2.6	+4.5
18	iPZX	17 09 22.5				>16	(16)	>10	-0.8
18	eSN	17 10 54		0.8	0.4	1.8	0.3	1.6	0.8
18	iPZX	17 12 36.1	12.4	3.2	0.8	6.1	0.2	>4	-1.8
18	iPZX	17 30 47.1				SO	SO	SO	+1.0
18	ePZX	17 37 12.8	09.7	2.3	0.5	4.3	0.4	>3	
18	ePZX	17 38 17.7	13.0	0.7	0.6	1.6	0.7	1.2	0.7
18	eXN	17 44 50.5		0.5	0.6X	0.6	0.5X	0.6	0.6
18	ePZX	17 56 04.3	12.21	3.3	0.6	5.0	0.8	3.2	0.7
18	eSN	17 57 44.4		0.6	0.6	1.0	0.5	0.5	0.6
18	ePZX	18 02 29.6	22.7	5.3	0.6	4.5	0.6	4.6	0.9
18	ePZX	18 04 37.4	22.2	2.1	0.5	3.8	0.6	2.2	0.7
18	iPZX	18 05 17.8	13.9	5.3	0.5	9.9	0.7	7.6	0.7
18	eSN	18 06 09		2.9	0.4	3.3	0.5	2.3	0.7
18	eSN	18 06 37		1.1	0.4	1.6	0.7	2.1	0.7
18	iSN	18 07 08.0		0.7	0.6	1.8	0.4	0.9	0.4
18	iPZX	18 07 51.5							
18	eXN	08 13.7	42.0			SO	SO	SO	+1.2
18	iPZX	18 13 22.5	08.51			SO	SO	SO	+SO
18	eSN	18 13 59.0		5.8	0.6	11.3	0.5	>6	
18	eSN	18 19 04		0.5	0.3	1.2	0.3	1.2	0.5
18	iSN	18 19 26.6		1.2	0.7	2.7	0.3	>2	
18	ePZX	18 22 11.5	16.6	1.3	0.6	1.4	0.4	1.5	0.6

Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)	Initial motion(mm)		
		h	m	s	Z	N	E
18	iPZX	18 28 41.5	08.71	0.8 0.7	1.6 0.5	0.7 0.5	-0.6
18	ePZX	18 29 35.7	22.5	2.1 0.5	3.5 0.7	2.4 0.5	
18	iPZX	18 31 58.7	12.61	0.7 0.5	1.4 0.3	1.0 0.7	+1.8
18	eSN	18 42 02.5		0.5 0.6	0.9 0.4	0.5 0.5	
18	iPZX	18 43 05.3	10.7	0.7 0.4	1.6 0.4	1.0 0.5	-1.1
18	iPZX	18 47 22.9					+0.1
18	iXZ	18 50 58.5	10.91	0.5 0.6	2.0 0.2	1.1 0.1	
18	eXZ	18 51 03.0		0.5 0.8X	1.5 0.3X	0.8 0.2X	
18	iPZX	18 56 05.9	11.61	1.0 0.5	2.5 0.4	1.3 0.4	+1.4
18	ePZX	19 04 54.4	08.81	0.6 0.5	0.8 0.6	0.5 0.7	
18	ePZX	19 05 25.5	09.11	0.5 0.5	1.3 0.3	1.2 0.2	
18	eXZ	19 10 30					
18	eXZN	19 11 06.5		1.3 0.7X2	1.7 0.8X2	1.4 0.7X2	
18	iPZX	19 14 33.1	13.21	2.2 0.6	3.2 0.5	3.0 0.5	-0.8
18	iPZX	19 24 02.7	12.01	7.7 0.6	14.8 0.7	7.2 1.0	-1.4
18	ePZX	19 33 56.2	17.4	0.6 0.7	0.7 0.7	0.5 0.5	
18	eXZ	19 37 25					

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)			Initial motion(mm)
				h	m	s	
18	ePZX	23 35 46.3	13.9	0.6 0.5	1.0 0.4	0.7 0.7	
18	eSZ	23 36 21.5		0.7 0.6	0.7 0.6	0.6 0.6	
18	iPZX	23 37 56.1	07.9i	1.9 0.5	8.9 0.2	2.6 0.6	+9.0
18	ePZX	23 51 52.6	09.4	3.8 0.7	5.8 0.6	5.3 0.5	+0.7
18	ePZX	23 59 04.7	11.3	0.9 0.7	2.3 0.6	1.7 0.4	
19	ePZX	00 18 06.5	06.7	1.0 0.3	2.7 0.2	2.0 0.2	
19	iPZX	00 22 30.4	11.6	1.6 0.4	(4.7) 0.3	2.8 0.5	-5.8
19	iPZX	00 25 06.5	14.0	4.2 0.6	9.9 0.5	4.8 0.5	+0.5
19	iPZX	00 26 40.6	09.2	4.4 0.6	6.3 0.4	4.5 0.7	
19	ePZX	00 33 42.5	10.9	6.8 0.6	10.2 0.4	9.5 0.4	+2.7
19	ePZX	00 34 13.5	(56)	45.0 0.6X	(62)		
19	ePZ	00 39 41.6	11.8i	1.4 0.6	2.7 0.5	1.4 0.6	
19	ePZX	00 52 35.1	09.9i	2.1 0.5	3.2 0.6	1.8 0.5	
19	ePZX	00 53 29.3	13.2i	0.8 0.5	1.5 0.2	0.8 0.4	-2.0
19	iPZX	00 59 19.6	09.7i	0.6 0.5	2.0 0.2	0.9 0.3	
19	ePZX	01 05 33.5	13.2	1.4 0.6	2.4 0.5	2.2 0.4	-1.4
19	iPZX	01 07 35.0	11.6i	1.4 0.6	3.5 0.4	1.4 0.6	-1.4
19	iPZX	01 15 32.1	17.8	2.5 0.7	3.7 0.5	2.4 0.5	-0.7
19	ePZX	01 16 17.0	13.1	0.8 0.5	1.5 0.6	0.9 0.4	
19	ePZX	01 22 50.1	12.5	1.3 0.7	1.4 0.5	1.4 0.7	
19	ePZX	01 31 39.6	12.4i	2.1 0.6	4.4 0.7	3.5 0.4	
19	ePZX	01 44 45.6	11.4	0.5 0.5	0.5 0.5	0.4 0.3	
19	iPZX	01 46 12.3	10.7i	1.5 0.5	2.1 0.6	1.2 0.5	+1.2
19	ePZX	01 56 29.0	13.1i	(14)	19.5 0.3	(14) 0.7	
19	ePZX	02 05 44.3	11.4i	1.1 0.5	1.6 0.3	1.0 0.5	
19	eX1N	02 07 21.0					
19	eX2N	07 56.7		1.1 1.0X2	1.6 0.6X2	0.9 1.1X2	
19	iPZX	02 10 24.5	08.9i	1.1 0.3	2.8 0.3	2.3 0.2	-3.2
19	ePZX	02 19 20.0	12.0	4.8 0.6	6.4 0.5	6.9 0.6	
19	ePZX	02 23 30.4	08.8i	0.5 0.6	1.8 0.2	1.1 0.3	
19	iPZX	02 27 52.3	11.8i	>30	(49)	(34)	+2.0
19	eZX	02 29 52.2		0.7 0.4	2.0 0.2	0.7 0.5	
19	iX1ZX	02 32 59.0					
19	iX2ZX	33 11.1		0.5 0.5	1.3 0.2	0.8 0.6	-0.9
19	iPZX	02 36 05.8	11.2i	0.5 0.6	1.1 0.2	0.5 0.7	-0.5
19	iPZX	02 38 00.5	10.5i	0.5 0.5	1.4 0.3	0.8 0.5	+0.8
19	iPZX	02 43 46.0					
19	iXE	43 58.5					
19	iPZX	02 51 35.9	09.4i	0.5 0.6	1.1 0.4	0.6 0.5	+2.4
19	ePZX	02 51 58.0	12.1i	4.6 0.6	5.0 0.4	4.5 0.5	
19	ePZX	02 53 50.3	13.8i	1.4 0.7	2.4 0.5	2.4 0.6	
19	iPZX	03 02 44.2	14.1	4.5 0.6	4.5 0.2	3.9 0.4	-1.8
19	iPZX	03 20 27.6	11.9i	1.5 0.5	1.9 0.2	1.7 0.5	+1.4
19	ePZX	03 21 54.2	12.6i	2.1 0.4	6.0 0.5	3.0 0.5	
19	iPZX	03 26 43.4	10.8	6.0 0.6	15.5 0.7	3.5 0.5	-4.4
19	ePZX	03 48 04.1	10.7i	0.7 0.5	2.6 0.1	1.5 0.1	
19	ePZX	03 48 57.7	12.6	1.0 0.6	2.0 0.5	1.0 0.5	
19	ePZX	03 50 43.6	12.7	1.0 0.6	1.8 0.5	1.0 0.5	
19	ePZX	03 53 17.8	09.7	5.3 0.6	6.9 0.6	4.6 0.6	
19	ePZX	03 58 26.3	14.6i	1.0 0.4	2.5 0.3	1.3 0.2	
19	ePZX	04 00 51.6	11.4i	8.9 0.5	18.6 0.4	8.5 0.8	
19	iPZX	04 05 13.4	11.1i	0.7 0.3	0.9 0.5	1.2 0.3	-0.7
19	ePZX	04 06 51.6	10.3	0.5 0.4	1.0 0.6	0.7 0.4	
19	iPZX	04 09 02.8	09.7i	3.4 0.5	6.1 0.3	3.5 0.2	+2.0
19	ePZX	04 10 46.8	28.2	2.2 0.6	2.5 0.4	2.5 0.5	
19	iPZX	04 17 29.5	15.8	(44)	63.2 0.6	(40)	-3.6
19	ePZX	04 34 33.1	18.4	3.7 0.8	7.1 1.2	5.1 1.2	
19	ePZX	04 38 44.6	12.1	0.7 0.5	1.2 0.3	0.8 0.5	
19	ePZX	04 39 42.8	10.2	0.5 0.5	0.8 0.6	0.6 0.5	
19	eX1N	04 47 21.9					
19	eX2N	48 22.0					
19	ePZX	04 47 24.9	08.6i	0.9 0.5	1.6 0.3	0.5 0.4	-0.8
19	iPZX	04 52 11.1	14.1i	0.8 0.4	2.1 0.3	1.4 0.4	
19	ePZX	04 59 20.2	14.3i	2.3 0.6	2.5 0.4	1.3 0.5	
19	iPZX	05 07 21.9	09.1i	1.1 0.6	2.4 0.4	1.9 0.5	+1.2

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)			Initial motion(mm)
				h	m	s	
19	iPZX	05 14 08.4	09.1	0.6 0.5	1.4 0.3	1.0 0.3	-0.9
19	iPZX	05 26 56.9					
19	iXZ	27 07.0		12.4	2.2 0.8	5.1 0.2	3.4 0.4
19	ePZX	05 29 28.0		28.2i	2.3 0.6	3.6 0.7	2.3 0.7
19	ePZX	05 42 53.2		15.8i	4.5 0.7	6.2 0.5	4.2 0.5
19	ePZX	05 44 50.6		21.9	2.5 0.7	3.3 0.8	2.6 0.5
19	ePZX	05 52 02.2		17.9	0.5 0.5	0.5 0.5	0.5 0.5
19	ePZX	06 00 24.1		21.4	1.1 1.0	1.7 1.2	1.3 0.9
19	iPZX	06 02 18.4		10.6	0.8 0.5	1.0 0.7	0.6 0.4
19	ePZX	06 02 57.9		14.9	1.5 0.6	3.9 0.3	2.7 0.5
19	ePZX	06 06 48.7		04.9i	2.5 0.1	2.0 0.3	1.3 0.2
19	iXN	06 07 08.1					(+)
19	iPZX	06 12 41.3		13.7	6.1 0.7	10.0 0.8	5.0 0.5
19	iPZX	06 17 05.2		06.8	0.8 0.4	1.5 0.4	0.9 0.3
19	ePZX	06 24 06.2					
19	iX1N	24 18.1					
19	iX2N	24 32.6					
19	iPZX	06 25 39.0		10.6i	4.2 0.6	6.8 0.5	4.5 0.5
19	i						

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)
			h	m	s	Z	N	E	
19	ePZX	09 49 30.5				3.7 0.5	4.5 0.6	2.5 0.5	-1.4
19	eXZN	19 41.5				1.0 0.4	4.0 0.2	1.0 0.6	
	eXZN	49 59.6				3.0 0.5	3.0 0.4	3.1 0.6	
19	iPZX	09 53 23.2	12.3			1.0 0.4	3.0 0.4	3.1 0.6	
19	ePZX	09 57 30.6	11.9			0.5 0.7	1.6 0.2	0.4 0.3	+0.9
19	iPZX	10 00 47.8	12.6i			1.2 0.3	1.5 0.2	1.0 0.6	
19	ePZX	10 01 26.3	12.1i			2.5 0.5	4.4 0.3	3.6 0.5	-0.6
19	iPZX	10 03 29.7	09.8i			0.8 0.6	1.9 0.5	1.1 0.5	+3.0
19	iPZX	10 07 58.5	13.6			2.8 0.7	2.8 0.7	2.8 0.6	
19	ePZX	10 09 35.9	10.3i			4.7 1.2	8.1 1.3	4.2 1.3	
19	ePZX	10 18 48.7	29.8			(5.0)	4.0 0.5	4.0 0.5	+1.0
19	ePZX	10 29 20.1	11.1i			0.8 0.5	1.4 0.5	0.8 0.6	
19	ePZX	10 31 54.6	11.4			0.5 0.4	0.8 0.6	0.4 0.3	
19	ePZX	10 38 43.1	17.0			0.6 0.8	0.9 0.8	0.7 0.7	
19	ePZX	10 40 21.8				1.0 0.6	2.8 0.7	1.3 0.6	
	iXN	40 38.0				1.1 0.6	1.5 0.2	1.0 0.3	
19	ePZX	10 40 47.1	10			0.6 0.5	1.7 0.2	1.4 0.2	
19	iPZX	10 45 59.2	08.8i			4.4 0.5	6.0 0.6	3.7 0.5	-8.0
19	iPZX	10 51 19.5	09.5			(5.0)	4.0 0.5	4.0 0.5	+1.0
19	iPZX	10 58 14.3	10.7			0.8 0.5	1.2 0.6	1.4 0.7	
19	ePZX	11 05 13.1	15.9			1.0 0.7	1.4 0.3	1.2 0.6	-1.1
19	iPZX	11 06 34.5	12.6i			1.1 0.7	1.4 0.3	1.2 0.6	
19	iXZX	06 45.0				1.1 0.4	0.7 0.5	0.7 0.5	
19	ePZX	11 09 30.4	28.1			0.5 0.7	24		-3.4
19	iPZ	11 13 27.2	10.1			36	64 0.9		
19	ePZX	11 19 27.6	13.4			0.7 0.6	1.9 0.3	0.5 0.4	
19	iPZX	11 30 21.0	10.6			0.6 0.7	1.6 0.2	0.7 0.6	+2.2
19	iPZX	11 38 18.7	09.0i			5.0 0.5	8 0.5	6.5 0.5	+4.8
19	eXIZX	11 41 43.9							
	iXZX	41 50.7				0.7 0.7	1.3 0.5	0.8 0.7	
	eSN	42 02.2				0.8 0.3	2.5 0.2	1.1 0.4	
19	ePZX	11 42 42.8	12.7i			0.8 0.6	1.2 0.3	0.8 0.5	
19	ePZX	11 52 32.0	10.3			0.6 0.6	1.6 0.5	1.0 0.4	
19	ePZX	11 54 34.1	09.8			28	38.0 0.7	30	-5.0
19	iXZX	11 57 23.5	08.8			1.5 0.6	2.0 0.6	1.3 0.4	-0.6
19	iPZX	12 08 02.1	10.8			1.6 0.6	2.0 0.4	1.7 0.5	
19	ePN	12 08 36.8				0.8 0.6X	1.2 0.6X	0.8 0.6X	+2.8
19	eXN	12 09 13.2				6.5 0.6	8.3 0.8	7.0 0.6	
19	iPZX	12 12 23.2	09.8i			1.2 0.5	1.2 0.5	1.2 0.5	
19	eXIZX	12 20 30.0							
	iXZX	20 33.5							
	iX3N	21 02.5							
	eX4N	21 31.8				4.5 0.7X4	5.8 0.5X4	5.0 0.7X4	** cf. page
** 19	ePZX	12 46 43.6	11.9			0.6 0.6	0.8 0.5	0.7 0.6	
19	ePZX	12 54 49.5	22.5			1.8 0.5	3.1 0.5	2.8 0.9	
19	ePZX	12 57 53.3	09.2			2.3 0.6	4.7 0.8	2.0 0.3	
19	iPZX	13 02 17.2	12.9i			0.8 0.4	1.0 0.5	0.7 0.4	-1.4
19	ePZX	13 06 01.7	22.3			1.0 1.6	1.5 0.6	0.9 0.6	
19	iPZX	13 07 40.8	16.0i			7.5 0.8	9.3 0.9	7.5 0.6	-3.6
19	iPZX	13 12 44.7	11.1			3.9 0.6	6.5 0.7	7.4 0.7	-1.7
** 19	iPZX	13 14 13.5	1 12.5			6.4 1.1	10.7 1.0	8.3 2.5	** cf. page
** 19	ePZX	13 40 40.5							
	iXZ	40 56.4							
	eSN	40 58.4							
19	eXN	13 47 07.8				0.5 0.5X	1.2 0.7X	0.5 0.7X	-3.5
19	iPZX	13 48 07.5	08.3			3.8 0.6	5.0 0.6	5.0 1.0	
19	eXZ	13 50 10.5				0.8 1.0X	0.8 0.8X	0.7 0.8X	
19	ePZX	13 51 19.4	08.6			16.0 0.6X	17.0 0.9X	15.8 0.7X	
	iXN	51 42.5							
19	iXZ	13 59 14.1							
	iXZ	59 21.5							
19	ePZX	14 02 08.2	09.9i			0.7 0.6	0.9 0.4	1.6 0.3	
19	eXZX	14 05 00.5				0.6 0.8	1.0 0.5	0.4 0.5	
19	ePZX	14 06 52.0				0.9 0.6X	1.4 0.8X	0.8 0.5X	
	eXII	07 40.3							
19	ePZX	14 07 11.0	11.1i			0.5 0.4	2.2 0.2	0.5 0.7	
19	iPZX	14 17 26.6	12.5			2.7 0.5	6.4 0.4	2.7 0.5	+1.1

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)	Initial motion(mm)	Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)	Initial motion(mm)			
			h	m	s				h	m	s			
19	ePZX	14 21 22.0	09.5	2.1 0.6	3.0 0.4	2.2 0.4	19	iPZX	14 22 31.5	05.8	5.4 0.6	8.6 0.5	6.0 0.6	+4.0
19	iPZX	14 26 16.9	13.8	2.2 0.9	2.9 0.7	2.3 0.5	19	iPZX	14 29 58.5	08.8	0.7 0.7	0.7 0.5	0.5 0.7	-0.9
19	ePZX	14 31 06.3	08.5i	0.6 0.6	1.1 0.2	0.8 0.3	19	ePZX	14 34 40.8	12.7	0.5 0.5	0.9 0.4	0.7 0.6	
19	iPZX	14 38 27.3	10.7i	1.4 0.5	3.3 0.3	1.4 0.6	19	eXZX	14 44 30		1.5 0.6	1.5 0.6	1.1 0.8	-1.7
19	ePZX	14 55 42.7					19	eXZ	14 56 13.0		3.5 1.2	6.5 1.2	4.9 0.7	
19	eSN	14 56 26.0					19	eSN	14 58 54.7</					

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Initial motion(mm)	
				h	m	s	m	s	Z		
20	iPZX	10 12 26.4		13.6i	1.2	0.6	1.8	0.3	1.1	0.4	+2.0
20	iPZX	10 29 27.8		09.2	5.6	0.5	10.7	0.5	0.9	0.5	-1.2
20	iPZX	10 31 45.3		11.0	0.9	0.5	1.6	0.6	1.7	0.6	+0.6
20	eX1ZX	10 39 21.2									
	eX2ZX	39 30.7									
	iSN	39 40.1									
20	ePZX	10 42 59.4	12.3i		1.0	0.6	2.0	0.4	1.6	0.2	
20	iPZX	10 45 57.0	08.8i		2.0	0.4	4.6	0.3	1.3	0.7	
20	iPZX	10 50 54.0							2.8	0.3	-2.6
	iXZ	51 01.1	09.2i								
20	ePZX	10 56 49.1							2.2	0.3	+0.7
	eZN	56 58.6							2.0	0.2	
20	ePZX	11 09 45.5	14.7i		7.4	0.8	7.6	0.7	6.0	0.5	
20	iPZX	11 15 24.0	16.6		2.0	0.7	4.6	0.3	1.9	0.5	+1.0
20	ePZX	11 20 10.6	14.0		0.5	0.6	0.7	0.5	0.5	0.3	
20	ePZX	11 25 13.4	26.8		0.5	0.6	1.6	0.5	0.5	0.6	
20	ePZX	11 26 33.5	10.7		0.8	0.5	2.1	0.6	1.0	0.4	
20	ePZX	11 32 18.5	30.5		50	1.0	46	0.8	41		
20	eX1ZX	12 02 19.3									
	eX2ZX	02 31.7							0.7	0.5X2	
20	ePZX	12 08 39.6							0.8	0.5X2	
	eXN	09 17.5							0.4	0.6X2	
20	ePZX	12 12 23.9	19.9		0.7	0.5	0.9	0.5	0.7	0.5	
20	iPZX	12 13 29.9	11.3i		1.9	0.5	4.1	0.4	2.3	0.4	-2.3
20	ePZX	12 15 55.9	23.4								
20	ePZ	12 16 54.5		49.5	1.6X		SO	>50	1.5X		
20	ePZX	12 22 49.0	12.4		1.1	0.7	1.5	0.4	1.3	0.5	
20	iPZX	12 27 06.7	14.2		7.1	0.8	8.2	1.0	8.0	0.5	-4.0
20	iPZX	12 44 26.2									
	iXZ	44 32.6	08.6i		0.5	0.5	1.5	0.3	0.9	0.5	+1.8
20	ePZX	12 46 03.0	12.0		1.0	0.7	1.0	0.5	0.9	0.6	
20	ePZX	12 47 32.9	25.1		0.6	0.7	1.4	0.4	0.6	0.4	
20	ePZX	12 53 31.7	09.8i		3.2	0.5	8.2	0.4	4.4	0.3	
20	iPZ	13 15 00.1					SO		SO		-2.6
20	iPZX	13 25 11.9									
	eXN	25 21.0					6.5	0.7X	8.4	0.8X	
20	ePZX	13 27 38.2	12.5		0.8	0.3	1.5	0.3	0.9	0.2	
20	ePZX	13 38 01.0					20.7	1.0X	27.2	0.9X	
	eXN	38 12.0							16.3	1.4X	
20	ePZX	13 50 09.4	24.8		1.0	0.6	1.5	0.6	0.9	0.7	
20	iPZX	13 58 55.6									
	iXZ	59 02.8	11.6i		9.5	0.7	9.5	0.5	9.8	0.5	-0.6
20	ePZX	14 04 22.2	13.0i		12.7	0.5	21.2	0.6	11.3	0.3	
20	iPZX	14 07 57.5	15.5		7.0		11.0	0.2	7.7	0.4	-2.8
20	eSN	14 12 57.5			0.5	0.4	1.0	0.3	0.7	0.2	
20	ePZX	14 16 52.6	24.5		1.0	0.6	1.3	0.3	0.9	0.5	
20	iPZ	14 18 30.0	10.7		30	0.7	56		44		+3.8
20	eSN	14 33 56.7			1.1	0.5	1.0	0.4	1.2	0.5	
20	iPZX	14 36 26.6	36.4		15.9	0.7	15.5	1.0	12.6	1.0	-2.4
20	ePZX	14 45 11.4	19.5		0.5	0.6	1.0	0.7	0.5	0.6	
20	ePZX	14 53 51.5	11.9		0.6	0.5	1.0	0.5	0.4	0.4	
20	ePZX	15 15 44.7	20.0		18.2	0.6	18		13	0.7	
20	iPZX	15 41 55.7	09.9		0.9	0.5	1.0	0.5	0.9	0.4	+1.1
20	iPZ	15 54 06.2									
	eXZ	54 18.0					51.3	1.2	63	1.5	
20	ePZX	16 02 18.1							64	1.5	+4.0
	eXZ	02 44.0					0.8	0.8X	0.6	0.7X	
20	iPZX	16 06 22.6	12.2i		7.6	0.5	16.8	0.5	7.5	0.6	+4.6
20	iPZX	16 21 40.6	09.4i		1.4	0.5	2.3	0.5	2.2	0.5	-2.0
20	ePZX	16 24 15.9	29.8		1.1	0.6	1.0	0.4	0.8	0.6	
20	ePZX	16 25 16.5			0.8	1.4P	0.8	1.1P	0.4	1.1P	
20	ePZX	16 27 41.9	20.7		11.9	0.7	16.4	1.3	10.1	0.6	

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Initial motion(mm)		
				h	m	s	m	s	Z			
20	ePZX	16 43 59.5							2.1	0.9X		
20	eXZ	44 16.0							3.0	1.1X	1.5	0.7
20	iPZX	16 52 52.0							0.7	0.5	1.2	0.5
20	ePZX	17 01 48.4							12.2	1.0	1.6	0.5
20	iPZX	17 11 28.5							07.5	26	23	
20	ePZX	17 19 03.3							1.0	0.5	1.3	0.5
20	ePZX	17 29 20.4							23.9	1.3	1.7	0.6
20	ePZX	17 58 47.8							08.6i	1.5	2.9	0.4
20	ePZX	17 59 24.0								2.4	1.3	0.5
20	eXZ	59 31.0								0.8	0.5	
20	iPZX	18 00 13.7							11.9i	2		

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Date	Phase	Time(JST)	P-S			Amplitude(mm) • Period(sec)			Initial motion(mm)	
			h	m	s	Z	N	E		
21	ePZX	02 24 06.9	12.9i	18.3	0.5	29.0	0.6	22.0	0.8	+0.4
21	iPZX	02 44 34.8	09.0	1.2	0.5	1.9	0.5	1.7	0.5	-
21	ePZX	02 57 35.5	09.0	1.2	0.6	2.4	0.3	2.0	0.4	-
21	eZN	02 58 12.3	0.9	0.5	1.6	0.3	1.3	0.8	-	
21	iPZX	03 07 19.1	08.8	0.9	0.6	1.4	0.2	0.9	0.5	+2.6
21	ePZX	03 13 20.7	20.8	2.4	0.7	2.3	0.3	2.3	0.8	-3.6
21	iPZX	03 16 15.8	09.4	0.7	0.4	1.5	0.2	1.0	0.2	-
21	ePZX	03 19 57.5	12.8	0.5	0.5	1.0	0.5	0.4	0.4	-
21	ePZX	03 28 57.1	11.2	1.2	0.5	1.8	0.5	0.8	0.5	-
21	iPZX	03 30 50.3	12.7	3.7	0.5	5.3	0.7	3.0	0.6	+1.4
21	ePZX	03 41 34.3	12.4	1.4	0.5	1.2	0.4	0.9	0.5	-
21	iPZX	02 47 23.6	12.3	1.1	0.5	1.8	0.3	1.5	0.4	+0.8
21	iPZX	03 51 47.5	13.1	0.6	0.6	1.0	0.3	0.6	0.7	+1.0
21	ePZX	03 53 51.5	54 01.4	11.7	0.7	0.6	1.7	0.2	0.7	0.7
21	ePZX	04 57 14.3	11.3	0.5	0.5	0.7	0.3	0.4	0.4	-
21	ePZX	03 59 36.5	12.2	1.4	0.6	2.2	0.5	1.2	0.6	-
21	iPZX	04 03 52.5	11.6i	3.2	0.6	3.5	0.5	2.9	0.6	+2.6
21	ePZX	04 38 06.5	1 04.7	0.9	1.0	0.9	0.9	0.9	0.9	-
21	ePZX	04 44 43.6	14.3	1.2	0.6	1.9	0.7	1.3	0.6	-
21	eY1ZX	04 51 29.5	51 52.5	2.2	0.5X3	2.6	0.4X3	2.3	0.9X3	-
21	eX2N	52 25.6								-4.5
21	iPZX	04 54 52.5	09.5i	5.0	0.5	10.3	0.7	6.0	0.3	-
21	ePZX	05 17 14.7	13.8	1.1	0.8	2.2	0.4	1.8	0.6	-
21	eY1Z	05 18 03.5		1.5	0.9	1.2	0.9	1.3	0.9	-
21	iPZX	05 34 48.5	14.6	1.1	0.5	1.8	0.5	1.3	0.5	+1.4
21	ePZX	05 35 41.2	10.9i	1.5	0.6	2.4	0.6	1.8	0.5	-
21	iPZX	05 49 35.4		0.7	0.4	2.7	0.3	1.4	0.4	+0.7
21	iY1Z	49 42.5	08.6	6.4	0.6	9.7	0.7	6.7	0.2	+3.9
21	iPZX	05 50 47.1	10.5	0.5	0.5	1.1	0.4	0.7	0.5	-
21	ePZX	05 52 54.8	12.4	0.5	0.5	1.2	0.3	0.8	0.3	** cf. page
21	ePZX	06 00 57.3	12.8i	0.5	0.5	3.3	0.2	1.6	0.4	-
** 21	iSN	06 24 39.0		1.7	0.4					-
21	iSN	06 25 16.2		0.6	0.5	1.6	0.4	1.6	0.2	-
21	ePZX	06 26 11.5	11.0i	1.1	0.5	1.4	0.4	1.0	0.5	-
21	ePZX	06 36 21.0	16.0	0.8	0.6	1.7	0.6	1.0	0.6	-
21	iPZX	06 42 03.4	06.9	0.6	0.7	1.3	0.4	0.7	0.6	+0.9
21	eZN	06 43 02.0		0.5	0.7X	0.5	0.7X	0.3	0.6X	-
21	ePZY	07 37 11.5	09.0i	0.5	0.5	2.1	0.2	2.0	0.2	-
21	ePZX	07 42 20.3		1.2	0.5	2.4	0.3	1.8	0.4	-
21	iY1Z	42 31.8	12.7	0.5	1.0X	0.5	0.8X	0.7	0.8X	-
21	eZN	07 44 43.0								-
21	ePZX	07 50 26.4								-
21	eX1M	50 40.0								-
21	iY2N	51 34.2		2.2	0.9X3	3.5	0.8X3	2.8	0.9X3	-
21	iY1Z	51 50.2		3.3	1.0	4.2	1.2	3.9	0.8	-
21	ePZX	07 52 52.2	1 04.8	3.3	1.0	4.2	1.2	3.9	0.8	7.4
21	iPZX	07 56 10.6	08.2	1.0	0.5	1.7	0.2	1.8	0.2	-
21	ePZX	08 02 13.4		4.8	0.8X	4.6	0.5X	3.3	1.1X	-
21	eZN	08 26.0		1.1	0.5	1.7	0.3	1.6	0.4	-
21	ePZX	08 22 52.0	04.7							-
21	ePN	08 25 49.7	1 08.8	8.1	0.6	23.4	0.6	12.0	0.6	-
21	iPZX	08 31 12.1	09.5i	2.5	0.5	5.3	0.2	3.0	0.4	-7.2
21	iPZX	08 33 40.1	09.2i	0.7	0.4	1.7	0.2	0.9	0.4	-2.2
21	iPZX	08 54 39.4	10.4i	0.9	0.5	1.3	0.3	1.6	0.4	-2.6
21	ePZX	08 58 12.0	26.7	18.2	0.9	29.4	0.7	19.7	1.0	-
21	ePZX	09 06 36.6								-
21	iY1Z	06 49.7		8.5	1.0	15.8	0.7	9.5	0.8	-
21	eSN	07 39.5	1 02.9	5.0	0.5	10.3	0.3	6.6	0.5	-1.6
21	iPZX	09 10 09.0	10.6							-

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Date	Phase	Time(JST)	P-S	Amplitude(mm) • Period(sec)	Initial motion(mm)				
			h	m	s	Z	N	E	
21	eZN	09 11 44.5		0.7 0.6X	0.8 0.9X	0.6 0.6X	0.9 0.9X	0.6 0.6X	+1.0
21	iPZX	09 20 59.0	1 09.5	3.8 0.8	7.2 0.6	4.6			-
21	ePZX	09 26 01.4	11.7	0.7 0.5	1.2 0.5	0.6 0.4			-
21	ePZX	09 27 42.3	27.2i	1.6 0.5	2.9 0.5	1.8 0.5			-
21	eY1Z	09 33 30.5		1.4 0.9X	2.6 0.9X	1.7 1.0X			-
21	iPZX	10 03 24.0							-
21	iY1Z	03 32.1	09.7	0.6 0.5	1.5 0.3	1.0 0.3	1.8 0.3	-1.2	-
21	iPZX	10 10 30.2	10.5	2.6 0.5	3.7 0.7	1.9 0.4	+1.6	-	-
21	iPZX	10 24 11.2	10.8i	3.2 0.5	8.2 0.3	3.5 0.5	-3.8	-	-
21	iPZX	10 38 19.9	10.8i	3.3 0.4P	9.0 0.3S	4.1 0.6S	-5.6	-	-
21	iPZX	10 50 12.0	12.8	2.0 0.6	3.8 0.3	2.2 0.6	-1.0	-	-
21	iPZX	10 59 13.5	11.0	13.5 0.6	26.3 0.5	16.2 0.9	-7.0	-	-
21	ePZX	11 18 34.5	09.2i	0.7 0.2	3.0 0.2	1.9 0.1			

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)
			h	m	s	Z	N	E	
21	ePZK	16 07 11.1				0.8 0.5X	1.2 0.9	1.0 1.0	-1.0
21	eXZ	07 31.0				0.5 0.4	1.5 0.2	1.1 0.4	
21	iPZX	16 10 43.4	08.6i			1.0 0.6	1.5 0.8	1.0 0.7	
21	ePZX	16 15 15.6	26.8			2.9 0.5	3.6 0.7	2.2 0.4	
21	ePZX	16 18 22.7	09.0i			0.9 0.6	1.7 0.5	1.4 0.2	
21	ePZX	16 22 52.1	09.5			0.9 0.6	1.5 0.7	1.5 0.7	
21	ePZX	16 50 42.6	03.9			7.8 0.6	11.8 0.3	1.5 0.7	
21	iPZ	17 04 47.0	13.5			15.5 0.4	19.8 0.5	14.8 0.5	-1.6
21	ePZX	17 21 25.5	07.1			10.8 0.7	21.0 0.7	14.0 0.6	(-)
21	iPZX	17 29 03.5				0.5 0.7X	1.2 0.6X	0.7 0.8X	
21	eXN	17 39 01.6							
21	ePZX	17 43 21.8	10.6i			0.8 0.8	1.3 0.3	1.1 0.5	
21	eX1N	17 54 51.3				0.7 0.9X2	1.4 0.7X2	0.9 0.6X2	
21	eX2N	17 55 21.5							
21	eX1N	17 57 10.5				0.9 0.7X2	2.0 1.0X2	1.2 0.9X2	
21	eX2N	17 57 41.8				0.9 0.6	0.6 0.4	0.4 0.5	
21	ePZK	18 02 01.9	12.6			0.5 0.6	0.6 0.4	2.4 0.4	
21	ePZX	18 43 05.0	20.1			1.3 0.8	4.2 0.3	0.5 0.4	
21	ePZX	18 51 34.0	11.5i			0.6 0.3	0.6 0.4	0.5 0.4	
21	ePZX	19 05 39							
21	eXN	19 05 53.7				0.8 0.9X	1.1 0.6X	1.0 0.6X	
21	ePZX	19 07 00.3	13.9i			3.1 0.7	6.8 0.3	4.9 0.4	
21	ePZX	19 08 23.2	13.8			0.6 0.4	1.5 0.3	0.7 0.2	
21	ePZX	19 09 18.0	17.0			0.9 0.9	0.9 0.9	0.9 0.8	
21	ePZX	19 13 53.5	1 05.0			4.9 0.9	10.7 0.8	6.8 0.8	
21	ePZX	19 29 01.1	11.3i			1.3 0.5	1.3 0.4	1.4 0.6	
21	iPZ	19 36 37.0	14.1i			1.9 0.5	3.3 0.5	1.4 0.7	-1.0
21	iPZ	20 01 40.5	11.6i			0.7 0.7	16.3 0.6	10.2 0.5	+1.6
21	ePZX	20 02 25							
21	iX1N	03 17.7				21.5 X2	42.0 X2	26 X2	
21	iX2N	03 54.3							
21	ePZX	20 05 19.5							
21	eXN	06 46.5	1 05.5			36 X	38.5 X	24 X	
21	ePZX	20 12 52.8	15.7			1.2 0.8	2.5 0.8	1.4 0.5	
21	eX1N	20 20 13.7							
21	eX2N	20 48.4				1.2 0.8X2	1.2 1.0X2	1.3 1.8X2	
21	ePZX	20 23 06.7	17.9			0.7 0.7	1.2 0.8	0.7 0.6	
21	ePZX	20 25 10.5				0.8 0.5	2.3 0.3	0.7 0.2	
21	iXZX	25 21.0	12.2						
21	ePZX	20 38 37.3	09.2i			1.0 0.5	2.1 0.5	1.4 0.2	
21	ePZX	21 12 40.5	12.5			13.6 0.7	>26 0.6	22.5 0.6	
21	ePZX	21 19 15.7	25.1			1.3 0.7	1.3 0.7	1.5 0.6	
21	ePZX	21 23 21.7	17.3			1.4 0.6	3.0 1.0	1.9 1.2	
21	ePZX	21 34 02.8							
21	eX1N	35 09.5							
21	eX2N	35 45.0				0.6 0.7X2	1.7 0.8X2	0.9 0.8X2	
21	ePZX	21 54 07.3	13.9i			0.5 0.5	1.2 0.2	0.6 0.5	
21	iPZX	21 57 52.5	11.1i			0.5 0.5	1.1 0.7	0.6 0.4	+1.1
21	iPZX	22 02 01.5	15.5i			2.0 0.5	1.6 0.7	1.5 0.5	+0.8
21	eX1Z	22 03 06							
21	eX2H	04 39				1.1 1.0X2	1.8 0.7X2	1.0 0.9X2	
21	ePZX	22 10 04	1 04.5			9.2 1.0	19.0 1.0	10.4 1.1	
21	ePZX	22 27 40.5	22.2i			4.2 0.7	6.1 0.8	5.3 0.8	
21	iPZ	22 39 57.5	09.3i			2.0 0.5	3.3 0.6	2.4 0.6	-1.8
21	ePZX	22 42 32.3							
21	eX1	43 49.5				5.4 0.5	6.8 0.7	6.3 0.7	
21	iPZX	23 01 22.8	14.5i			8.5 0.6	9.6 0.6	5.8 0.7	-3.0
21	iPZX	23 13 48.9	09.2i			2.7 0.7	6.0 0.3	5.0 0.2	-2.0
21	iPZ	23 16 03.7	12.3			1.1 0.3	3.3 0.2	2.0 0.5	+0.6
21	ePZK	23 19 28.3	12.7i			1.0 0.7	2.3 0.2	0.7 0.5	
21	ePZK	23 20 49.5	14.3			0.5 0.6	1.3 0.6	0.7 0.5	
21	ePZK	23 47 48.3	12.4			0.8 0.5	1.0 0.3	0.9 0.5	

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)	Initial motion(mm)			
			h	m	s	Z	N	E
22	iPZX	00 02 10.0						
22	iXZX	02 21.2	13.3	0.8 0.7	1.8 0.3	0.7 0.4	-0.9	
22	iPZX	00 03 52.0						
22	iXZX	03 58.9	08.7	1.3 0.5	2.5 0.3	2.5 0.2		
22	iPZX	00 04 39.8						
22	iXZX	04 46.5	08.7i	1.8 0.7	4.8 0.4	2.5 0.3		
22	iPZ	00 10 27.3	13	94	106	70	-1.8	
22	iPZ	00 20 20.5	19	98	106	92	+6.6	
22	ePZX	00 31 29.0	13.5	1.1 0.6	1.3 0.5	1.5 0.2		
22	iPZ	00 36 17.6						
22	iXZX	36 28.0	11.6	1.9 0.6	3.5 0.5	2.0 0.6	+1.1	
22	ePZX	00 37 29.5	14.0	0.7 0.7	1.0 0.7	1.1 0.7		
22	ePZX	00 44 30.1	31.5	0.6 0.78	1.1 0.5X	0.8 0.3X		
22	iPZ	00 55 02.2	12.1	18.6 0.8	34.4 0.8	20.7 0.9	-1.0	
22	iPZ	01 04 37.4	10.6i	34.3 0.6	55.6 0.7	38.5 0.5	-2.4	
22	ePZX	02 03 56.8	1 04.7	1.0 1.1	1.8 0.6	1.1 1.0		
22	ePZX	02 07 23.3	09.9i	0.5 0.7	1.4 0.3	1.2 0.3		
22	iPZX	02 36 26.7	09.6	1.3 0.5	2.2 0.7	1.6 0.5	+0.8	
22	iPZX	02 37 51.7	13.4	1.3 0.6	1.3 0.7	1.2		

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)				Initial motion				
				h	m	s	m	s	Z	N	E	
22	ePZX	10 13 01.9		12.4i	1.3	0.6	1.4	0.4	0.8	0.4	-	
22	iPZX	10 51 13.0			09.7i	2.5	0.2	6.9	0.4	5.9	0.7	-1.4
22	iXZ	54 49.5				1.5	0.7	3.2	0.5	2.2	0.8	-1.2
22	iPZX	10 58 37.7		13.3i	1.5	0.7	3.2	0.5	2.2	0.8	-1.4	
22	iPZX	11 03 47.9		22.2	9.7	0.6	25.0	0.5	11.8	0.5	-2.4	
22	ePZX	11 14 41.1		13.1	0.6	0.6	0.9	0.4	0.8	0.5	-	
22	ePZX	11 44 16.9		11.1	0.5	0.4	0.8	0.3	0.6	0.4	-	
22	iPZX	12 10 38.8			2.0	0.6X	2.6	0.6X	1.5	0.7X	+2.7	
22	eZN	10 38.8			0.6	0.6	0.7	0.9	0.4	0.5	-	
22	ePZX	12 24 02.4	09.3		0.6	0.6	0.7	0.9	1.4	0.6	-	
22	ePZX	12 25 11.2	14.3i		0.8	0.7	2.3	0.2	1.4	0.6	-	
22	ePZX	12 41 01.6			2.1	1.2X	2.8	0.7X	2.2	1.0X	-	
22	eZN	41 08.0			1.4	0.7	1.5	0.7	1.3	0.5	+2.1	
22	ePZX	12 57 30.1	09.6		0.6	0.5	1.1	0.3	0.6	0.4	-	
22	ePZX	12 59 08.2			2.5	0.6X2	3.3	0.5X2	2.1	0.5Y2	-	
	iMLX	59 24.7			0.7	0.5	1.8	0.3	1.1	0.5	+0.9	
	eXZ	59 33.7			2.5	0.6X2	3.3	0.5X2	2.1	0.5Y2	-	
22	iPZX	13 02 04.8	11.8		0.7	0.5	1.8	0.3	1.1	0.5	+0.9	
22	iPZX	13 18 28.7	10.3		24.2	0.6	35.8	0.5	30	0.7	-1.0	
22	ePZX	13 19 33.6	09.1		1.4	0.7	1.6	0.3	0.9	0.4	-	
22	iPZX	13 20 32.4	07.1		5.1	0.4	10.8	0.5	10.4	0.2	-8.0	
22	iPZX	13 22 09.5	19.1		1.9	0.5	4.0	0.3	2.0	0.5	-7.0	
22	iPZX	13 24 22.5	11.0i		1.1	0.6	2.5	0.7	2.1	0.2	-1.7	
22	ePZX	13 26 54.8			8.9	0.9X	15.9	0.8X	9.1	1.5X	-	
22	eXZ	27 08.8			1.0	0.6	1.7	0.7	1.0	0.3	-	
22	ePZX	13 34 26.3	21.7		1.4	0.6	2.2	0.4	2.0	0.6	-	
22	ePZX	13 35 52.7	17.5			0.7	0.5	1.0	0.3	0.8	-	
22	ePZX	13 48 11.1	12.4		0.7	0.5	1.1	0.5	0.8	0.5	-	
22	iPZ	14 02 34.0	11.6	58		60	46			-3.0	-	
22	iPZX	14 09 52.8	09.2		0.8	0.4	2.0	0.5			+1.4	
22	eXZ	14 18 29.0			0.9	0.8X2	1.1	0.7X2			-	
22	eXZ	17 17.0			2.0	0.5	4.2	0.3	1.2	0.5	+4.0	
22	iPZX	14 19 29.8	08.3i		1.3	0.6	1.8	0.5	1.3	0.5	-2.4	
22	iPZX	14 27 05.0	10.5		0.5	0.6	0.8	0.5	0.5	0.5	-	
22	ePZX	14 28 43.3	1 13.4	10.4	0.9R	8.6	0.7R	10.7	1.0S		-	
22	ePZX	14 46 32.4	09.5i		0.5	0.6	1.5	0.4	0.5	0.5	-	
22	eXIZ	14 50 20.1			50	36.7					-	
	eX2M	50 36.7			1.0	0.6X3	1.9	0.3X3	1.2	0.6X3	-	
	eX3N	50 49.4				0.5	0.6	6.7	0.7	0.5	-	
22	iPZX	14 53 52.5	12.7i		6.3	0.6	9.5	0.6	6.7	0.7	+6.0	
22	ePZX	15 09 47.1	09.1		1.9	0.3	4.2	0.4	2.5	0.2	-	
22	ePZX	15 12 40.0	10.7		0.6	0.7	0.9	0.5	0.6	0.4	-	
22	ePZX	15 37 12.0			2.9	0.7X	3.3	0.5X	2.3	0.9X	-	
22	eXZ	37 23.0			1.0	0.5	1.2	0.7	1.0	0.5	-	
22	ePZX	15 44 51.2	14.4		1.0	0.5	1.2	0.7	1.0	0.5	+1.0	
22	iPZX	15 57 40.2	11.0		1.2	0.5	1.8	0.5	0.8	0.4	+2.1	
22	iPZX	16 25 01.5	04.5		6.0	0.6	11.8	0.4	6.8	0.5	-	
22	ePZX	16 36 19.7	12.3		5.0	0.6	7.0	0.5	5.5	0.5	-	
22	ePZX	17 07 12.2	11.2		2.1	0.5	3.6	0.6	2.9	0.8	-	
22	iPZX	17 14 48.0	28.2		0.8	0.8	1.3	0.6	1.0	1.0	+0.7	
22	iPZX	17 19 30.6			51	41.5					-	
	iX1N	19 41.5			2.7	0.6X1	6.0	0.3X1	3.3	0.4X1	-1.4	
22	eX2Z	20 54			0.6	0.4	0.8	0.4	0.8	0.4	-	
22	ePZX	17 50 36.6	10.2		0.6	0.4	1.2	0.5	0.8	0.4	+1.0	
22	iPZX	17 51 51.3	10.0		0.6	0.5	1.2	0.5	0.9	0.4	-	
22	ePZX	19 11 12.3	13.2		0.9	0.6	1.6	0.4	0.9	0.3	-	
22	iPZX	19 13 48.8			2.6	0.4	7.0	0.2	3.8	0.2	+2.8	
22	iXZ	19 25 59.3			1.0	0.8X	1.5	0.5X	0.8	0.6X	-	
22	ePZX	19 25 09.7			1.0	0.8X	1.5	0.5X	0.8	0.6X	-	
22	eXZ	25 27.1			1.0	0.8X	1.5	0.5X	0.8	0.6X	-	
22	ePZX	19 28 01.8	09.3i		3.0	0.5	6.0	0.4	2.9	0.7	-	
22	ePZX	19 46 12.8	24.4		0.7	0.4	1.5	0.6	0.7	0.6	-	
22	iPZ	19 52 08.5			50		50		50		-	
22	iPZ	19 56 46.9	10.7		9.5	0.6	10.7	0.6	6		-	
22	ePZX	19 59 12.1	21.6		0.8	0.4	1.2	0.2	1.3	0.5	+9.8	

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)				Initial motion				
				h	m	s	m	s	Z	N	E	
22	ePZX	20 00 57.2			11.2		0.6	0.5	0.7	0.2	0.8	0.3
22	iPZX	20 03 19.9			11.3i		0.8	0.5	1.2	0.3	0.9	0.5</td

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)
			h	m	s	Z	N	E	
23	iPZX	00 03 28.3		10.4i		2.5 0.6	2.7 0.7	1.8 0.4	+1.1
23	ePZX	00 05 57.0		12.5		3.1 0.9	4.8 0.3	3.0 0.7	-0.4
23	iPZX	00 09 14.0		10.2i		1.4 0.6	2.0 0.3	1.8 0.5	-
23	ePZX	00 17 33.2		12.8i		0.6 1.1	0.9 0.6	0.5 0.6	-
23	iPZX	00 29 20.5							
	iX1Z	29 28.4							
	iX2N	29 59.3				5.1 1.1	4.7 1.3	3.9 0.6	+2.2
23	iPZX	00 35 34.5		14.5		2.0 0.5	3.7 0.6	1.7 0.6	+2.7
23	iPZX	00 45 45.0		11.8i		4.1 0.5	8.6 0.3	5.5 0.5	-2.6
23	ePZX	00 46 34.0		11.4		1.4 0.6	2.7 0.3	2.2 0.4	-
23	iPZ	00 49 47.2		14.9i	>86	>98	>94	>71	+3.0
23	ePZX	00 56 51.2		15.3		0.5 0.5	0.5 0.6	0.5 0.5	-
23	ePZX	01 13 49.8							
	eX1Z	13 57.8							
	eX2N	14 23.0				0.7 0.6X2	1.4 0.8X2	0.7 1.0X2	
23	ePZX	01 25 16.8		11.6i		0.7 0.5	1.7 0.4	1.1 0.5	-
23	ePZX	01 34 18.0		11.5		2.2 0.3	4.8	2.9 0.5	-
23	ePZX	01 36 18.3							
	eXN	36 41.2				0.6 0.6X	0.6 0.5X	0.5 0.6X	
23	ePZX	01 49 27.0		11.6		2.2 0.5	3.5 0.5	2.6 0.6	-
23	ePZX	02 15 09.7		11.2		0.6 0.5	1.0 0.5	0.8 0.5	-2.4
23	iPZX	02 26 16.9		14.2		4.4 0.5	7.3 0.5	4.2 0.5	-
23	ePZX	02 37 05.7		12.1		1.4 0.6	2.5 0.3	1.6 0.8	+1.7
23	iPZX	02 41 19.5		06.5i		1.8 0.7	4.9 0.3	2.5 0.4	-
23	iPZX	02 42 11.3							
	iXZ	42 32.2							
23	ePZX	02 51 15.0		11.5		0.8 0.4	1.2 0.6	0.7 0.5	-2.0
23	iPZ	02 51 57.8		10.7i		18 0.5	17.9 0.6	13.5 0.5	-
23	ePZX	02 54 01.1		09.9		1.0 0.6	1.2 0.4	1.5 0.5	-
23	ePZX	03 37 44.4		1 07.6		15.6 1.0	18.4 0.8	11.9 0.7	-
23	ePZX	03 45 19.7							
	eXN	45 45.2				1.0 0.7X	1.2 1.0X	1.3 0.9X	
23	iPZX	03 57 05.3							
	iX1Z	57 12.1				2.4 0.7	4.1 0.5	3.0 0.5	-2.4
23	ePZX	04 03 03.6		10.6		1.1 0.5	1.9 0.5	1.0 0.5	-
23	eXZ	04 03 28				0.8 0.7	1.4 1.0	1.0 0.8	+3.6
23	iPZX	04 05 11.1		10.8i		2.5 0.5	3.8 0.5	2.0 0.6	-1.6
23	iPZX	04 15 27.6		09.5		0.5 0.5	0.5 0.4	0.4 0.4	-
23	iPZX	04 25 34.2		09.5		0.9 0.6	1.4 0.4	0.9 0.2	+0.8
23	ePZX	04 26 33.5		11.8		0.5 0.3	1.0 0.5	0.7 0.5	-
23	ePZX	04 29 59.0		29		S0	S0	S0	-
23	ePZX	04 38 09.0							
	eXIN	38 19.5							
	eX2N	38 37				4.8 1.2X2	5.5 1.0X2	4.2 1.1X2	
23	eX1Z	04 47 55.0							
	eX2N	48 00.0							
	eX3Z	48 55							
	eX4N	49 27							
23	iPZX	04 58 44.7		11.4i		1.4 1.0X4	1.9 0.8X4	1.1 0.7X4	-0.8
23	ePZX	05 02 38.8		1.24		17.0 0.8	31.5 0.7	27.7 1.6	-
23	ePZX	05 06 15.5		17.0		0.6 0.5	1.2 0.6	1.0 0.5	-
23	ePZX	05 06 58.6		11.5		0.7 0.5	1.3 0.3	1.0 0.4	-
23	iPZ	05 09 46.1		12.2		12.3 0.6	21.0 0.6	20.0 0.6	+4.1
23	ePZX	05 27 44.0							
	eXN	28 51.5							
	iPZ	05 31 54.8		10.8i		2.9 1.0X	4.5 0.8X	1.9 0.6X	-
23	ePZX	05 49 20.3		11.1		8.8 0.5	12.0 0.6	9.1 0.8	+1.6
23	ePZX	06 10 29.5		13.2i		0.6 0.5	0.7 0.8	0.6 0.6	-
23	iPZX	06 19 19.3		08.9i		1.2 0.6	2.4 0.6	1.8 0.4	+3.6
23	iPZX	06 33 54.1		10.4		1.5 0.5	3.5 0.3	1.8 0.4	-
23	iPZX	06 41 12.5		11.3		0.9 0.5	1.2 0.5	0.9 0.3	-
23	ePZX	06 47 41.2							
	eXIN	48 02.5				0.5 1.2X	0.6 1.1X	0.5 0.9	-
	eXIN	48 12							
	eXIN	50 12							
23	ePZX	06 59 08.6		10.0i		0.3 0.8X	1.5 0.6X	1.1 0.6X	+1.4

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)	Initial motion(mm)
		h m s	m s	Z N E	
23	ePZX	07 13 02.0	10.6	0.7 0.5 1.4 0.5 1.0 0.5	-
23	ePZX	07 34 27.0	15.6	1.2 1.3 1.5 0.7	-
23	iPZ	07 45 14.8	12.1i	6.5 0.7 9.7 0.5 9.0 0.5	+1.4
23	ePZX	08 06 23	12 i	0.9 0.6 1.9 0.3 0.9 0.5	-
23	iPZ	08 18 59.8	11	>71 >89 69 1.0 -4.3	-
23	ePZX	08 22 29.0	2.7	0.6X2 3.5 0.3X2 2.3 0.5X2	-
	eXIN	22 44			-
	iX2N	22 59.4			-
23	iPZX	08 25 32.6	11.1i	1.9 0.7 2.6 0.3 2.5 0.4	+1.1
23	ePZX	08 28 15.1	12.1	0.5 0.5 0.9 0.5 0.6 0.4	-
23	ePZX	08 56 22.5	11.4	1.9 0.6 2.2 0.2 2.1 0.5	-
23	iPZX	09 03 23.5	10.0i	9.0 0.6 25.4 0.4 13.9 0.5	-3.0
23	ePZX	09 08 55.8	11.8	17.3 0.7 21.5 0.5 14.1 0.6	-
23	ePZX	09 10 56.6	11.5	5.0 0.5 5.4 0.5 4.3 0.8	-
23	ePZX	09 16 59.1	20.4	0.6 0.6 0.9 0.3 0.5 0.6	-
23	ePZX	09 36 49.3	24.4	2.1 0.7 4.8 0.8 4.1 0.9	+1.0
23	iPZX	09 44 35.4	11.3	1.8 0.7 3.3 0.6 2.4 0.4	-
23	ePZX	09 50 04.2	10.8i	1.4 0.5 1.9 0.3 1.3 0.5	-
23	ePZX	09 57 56.2	15		

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)				Initial motion(mm)			
				h	m	s	Z				
23	ePZX	15 44 43.3	29.3	1.1	0.7	1.4	0.3	0.8 0.6	-1.4		
23	ePZX	15 56 09.8	09.3	2.2	0.5	2.3	0.3	1.7 0.6			
23	iPZX	16 12 12.1	10.9	3.0	0.5	3.0	0.7	1.8 0.4			
23	ePZX	16 18 26.4	22.0	2.5	0.6	3.0	0.5	3.0 0.6			
23	ePZX	16 21 44.9	25.8	0.7	0.5	1.0	0.5	0.7 0.8			
23	ePZX	16 39 58.6	13.2	1.0	0.6	1.2	0.5	0.7 0.6			
23	ePZX	16 43 53.3	1 08.8	4.6	0.9	8.2	1.1	6.0 1.8			
23	ePZX	16 50 21.8	27.9	1.5	0.8	2.5	0.8	1.9 1.0			
23	ePZX	17 16 13.1	22.5	4.6	0.7	7.2	0.3	5.1 0.5	+1.8		
23	iPZX	17 23 18.5	10.6	1.8	0.6	2.5	0.5	1.8 0.7			
23	ePZX	17 26 43.6	18.5	0.7	0.5	1.2	0.7	1.1 0.5			
23	ePZX	17 30 53.0	13.6	0.8	0.5	1.6	0.8	0.8 0.6			
23	ePZX	17 42 34.3									
	eX1Z		42 53.6								
	eX2N		43 42.1								
23	ePZY	17 50 07.5	11.7	0.7	0.6	1.2	0.5	0.8 0.7			
23	eX1ZX	17 55 52.2									
	iX2ZX		55 55.6								
23	iPZX	18 09 50.8	10.5i	1.4	0.6	3.8	0.3	2.7 0.4	+2.0		
23	ePZX	18 16 49.1		3.3	0.6	3.8	0.6	2.6 0.6			
	eX1Z		17 02.4								
	eX2N		17 18								
23	iPZX	18 21 40.5	11.9	1.9	0.3	3.6	0.4	2.0 0.5	-3.0		
23	ePZX	18 26 36.2	10.0i	1.8	0.6	3.7	0.3	2.0 0.4			
23	iPZX	18 37 49.6	08.4i	1.0	0.3	2.4	0.3	2.2 0.5	+1.6		
23	iPZX	18 50 03.7	13.8i	1.2	0.5	2.5	0.4	1.7 0.4	-0.8		
23	ePZX	19 02 08.3	37.0	3.2	0.6	6.1	0.7	4.8 0.5			
23	iPZX	19 07 05.6	10.0i	2.6	0.5	3.8	0.3	2.7 0.5	-4.1		
23	ePZX	19 12 34.4	15.5	0.6	0.6	1.0	0.5	0.8 0.6			
23	ePZX	19 17 25.8	10.9	0.6	0.2P	1.0	0.5S	0.7 0.4S			
23	ePZX	19 20 44.7	11.9	1.2	0.6	2.3	0.7	1.0 0.5			
23	ePZX	19 42 04.4	16.2	3.6	0.7	4.5	0.3	2.8 0.9			
23	ePZX	19 46 41.3	11.8	2.5	0.4	4.1	0.3	3.3 0.6			
	eXN		02 57.7								
23	iPZX	20 15 02.6		0.9	0.5X	1.2	0.5X	0.9 0.6X			
	iXZX		15 10.1	09.5i	1.4	0.4	7.3	0.2	2.0 0.2	-0.6	
23	ePZX	20 18 49.8									
	eXZ		18 58.6		1.4	0.8X	1.6	0.6X	1.5 0.7X		
23	ePZX	20 33 21.6			8.7X	8X	7	0.5X	-1.4		
23	iPZX	20 40 47.6	10.5	1.6	0.8	2.8	0.2	2.2 0.2			
23	ePZX	21 01 22.9	10.3	0.6	0.6	0.8	0.6	0.6 0.5			
23	ePZX	21 13 37.8	10.5i	1.2	0.5	1.5	0.6	1.0 0.4			
23	ePZX	21 19 19.0	11.3	0.9	0.7	1.1	0.6	1.0 0.5			
23	ePZX	21 31 36.6	13.0	1.7	0.5	2.8	0.8	2.2 0.5			
23	ePZX	21 58 45.6	11.8i	0.9	0.5	1.5	0.5	0.9 0.3			
23	ePZX	22 04 57.7	19.4	2.4	0.6	5.3	0.8	2.5 0.8			
23	ePZX	22 08 42.8	12.8	1.6	0.7	3.2	0.2	1.9 0.5			
23	ePZX	22 19 00.8	15.5	0.9	0.5	1.2	0.5	1.1 0.6			
23	ePZX	22 20 18.8	26.2	0.8	0.6	1.5	0.6	0.9 0.7			
23	ePZX	22 26 01.2	10.7i	0.8	0.5	1.4	0.5	1.0 0.5			
23	ePZX	22 27 54.2	12.9	0.5	0.4	1.1	0.2	0.6 0.1			
23	iPZX	22 31 42.0									
	iXN		31 53.3	19.3	15.8	1.2	17.7	0.7	23.0 1.2	+2.0	
23	ePZX	22 41 01.8	09.7	0.7	0.7	0.9	0.4	1.1 0.5			
23	iPZX	22 46 06.5	09.4i	1.5	0.5	4.9	0.6	2.1 0.5	-4.5		
23	iPZX	22 49 13.1	09.5i	1.4	0.6	2.3	0.3	1.7 0.2	-0.8		
23	iPZX	22 56 43.0	09.1i	0.8	0.7	1.4	0.5	0.7 0.5	-0.7		
23	iPZX	23 07 56.1	08.9i	0.5	0.4	1.0	0.2	0.9 0.2	+0.2		
23	ePZX	23 15 49.5	16.0	0.7	0.5	0.6	0.4	0.3 0.5			
23	ePZX	23 21 02.2									
	eYX		21 26.8		1.8	0.4X	2.2	0.4X	1.9 1.3X		
23	iPZX	23 25 58.4									
	eXZ		26 41.2	26.5	32.9	1.0X	35.4	1.1X	31.0 1.2X	+3.7	
23	ePZX	23 51 12.8	12.1	1.2	0.7	1.5	0.2	1.3 0.4			

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)				Initial motion(mm)
				h	m	s	Z	
24	ePZX	00 09 50.3		2.8	0.6X	3.7	0.5X	2.3 0.6X
24	ePZX	00 55 37.1		12.5	0.6	0.6	0.7	0.4 0.6
24	iPZX	00 58 45.2		10.9i	0.5	0.6	0.7	0.6 0.2
24	iPZX	01 12 13.3		13.8i	1.4	0.6	3.1	1.4 0.4
24	ePZX	01 15 26.1		09.0	0.8	0.8	1.2	1.1 0.4
24	ePZX	01 22 45.4		15.9	0.7	0.7	0.9	0.5 0.7
24	ePZX	01 28 32.8		11.1i	1.2	0.5	1.7	1.0 0.6
24	ePZX	01 44 13.8		09.6i	0.6	0.5	1.1	0.8 0.6
24	iPZX	01 49 13.7		13.8	0.5	14.9	0.6	18.9 0.5
24	iPZX	01 51 35.3		10.1	0.6	0.5	0.9	0.7 0.5
24	iPZX	02 09 47.9		10.3i	4.5	0.5	3.3	5.0 0.6
24	ePZX	02 12 03.2		10.2	0.5	0.6	1.5	0.3 0.5
24	iPZX	02 30 24.9		10.5i	1.0			

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Date	Phase	Time(JST)	P-S		Amplitude(mm) • Period(sec)				Initial motion(mm)		Date	Phase	Time(JST)	P-S		Amplitude(mm) • Period(sec)						
			h	m	s	m	s	Z	N	E				m	s	Z	N	E	m			
24	ePZX	10 44 26.2		11.5i		1.7	0.5	2.4	0.6	1.5	0.2	24	iPZX	21 30 03.7	14.4	0.9	0.7	1.7	0.6	1.7	0.5	
24	ePZX	10 52 46.7		15.3		0.6	0.5	0.8	0.3	0.6	0.4	24	ipZ*	21 41 39.6		8.4	1.0X	12.9	0.9X	8.5	1.2X	-1.0
24	iPZX	10 53 16.0		11.0i		2.5	0.5	5.4	0.3	4.0	0.5	24	iPZX	21 59 44.5		7.9	0.7X	8.7	1.0X	6.0	1.1X	-0.8
24	iPZX	11 11 25.6		08.0		1.0	0.5	2.5	0.3	1.5	0.3	24	eXZ	22 00 06.5								
24	iPZX	11 23 34.3		11.1		0.8	0.5	1.2	0.5	0.7	0.3	24	ePZX	22 32 50.6								
24	iPZX	11 27 33.3		12.8		1.5	0.7	2.9	0.4	1.7	0.5	24	eYZ	23 13 17.3		6.9	0.9X	7.5	0.9X	6.7	1.2X	
24	ePZX	11 30 18.7		18.4		5.7	0.7	5.6	0.4	3.0	0.6	24	iPZX	22 55 05.5	20.0	33.1	1.0	24.5	1.0	17.0	1.3	+2.0
24	iPZX	11 33 22.0		13.0i		1.7	0.5	3.4	0.6	2.0	0.5	24	iPZX	23 06 47.0		SO		SO		SO		+11.4
24	ePZX	11 40 32.1		53.2		3.5	0.8	9.2	0.7	3.4	0.8	24	iPZX	23 32 09.7								
24	eX1ZX	11 57 06.7				0.6	0.6	0.7	0.7	0.4	0.5	24	ePZX	23 34 03.5								
24	eX2Z	58 10.1										24	eXZ	23 34 23		6.9	0.8X	12.5	1.2X	6.6	1.1X	
24	iPZX	12 36 31.5		11.8		11.5	0.5	10.7	0.7	8.7	0.5	24	ePZX	23 36 36.7	25.2	0.9	0.5	1.5	0.5	0.7	0.6	
24	eXZX	13 25 52.4				0.6	0.5	0.9	0.7	0.5	0.4	24	ePZX	23 44 29.5								
24	iSN	26 23.9										24	eXZ	23 44 55.3		0.6	0.5X	0.8	0.6X	0.5	0.5X	
24	eX1ZX	13 36 33.8										24	iPZX	23 46 59.8	09.6i	5.5	0.6	7.5	0.6	8.6	0.5	-3.6
24	iX2ZX	36 36.9				2.1	0.5	2.4	0.7	2.1	0.5	24	cPZX	23 59 09.9	17.0	0.5	0.5	0.6	0.5	0.4	0.5	
24	iPZX	13 46 16.0		10.7		1.2	0.5	2.3	0.6	1.8	0.5	24	ePZX	00 27 41.8								
24	iPZX	14 03 13.8		10.5i		2.3	0.7	2.8	0.4	2.8	0.8	24	eXZ	00 27 56.5		0.6	0.6	1.3	0.9	0.7	0.6	
24	ePZX	14 09 00.3		11.4		0.9	0.5	1.2	0.5	0.8	0.8	24	iPZX	00 29 09.7	13.2	10.0	0.6	14.8	0.7	9.2	0.5	-3.0
24	ePZX	14 27 14.2		09.6		1.2	0.5	2.4	0.3	1.0	0.5	24	eSN	31 00.2		2.4	0.5	3.5	0.5	2.6	0.6	
24	iPZX	14 49 47.7		10.9		1.4	0.6	2.3	0.2	1.2	0.5	24	ePZX	00 43 45.5								
24	iPZX	14 58 33.9		10.3		3.4	0.8	5.2	0.6	4.5	0.6	24	eXZ	00 44 48.5		0.5	0.9	0.6	0.5	0.4	0.6	
24	ePZX	15 08 03.2		27.0		0.6	0.6	0.6	0.6	0.5	0.7	24	iPZX	00 49 12.4	25.3	13.7	0.7	17.7	0.9	10.5	1.0	-2.0
24	ePZX	15 16 53.6		11.1		1.7	0.6	2.1	0.6	1.8	0.5	24	iPZX	00 52 20.7		1.7	1.4P	0.8	1.0P	0.7	1.5P	-3.0
24	iPZX	15 21 38.4		09.9i		1.1	0.5	2.7	0.5	1.9	0.2	24	iPZX	00 53 18.2								
24	iPZX	15 32 07.1		09.5i		0.7	0.7	1.0	0.3	1.1	0.5	24	iPZX	01 07 55.1	23.9	2.1	0.6	4.0	0.6	2.1	0.9	+1.0
24	iPZX	15 41 37.0		12.1		1.1	0.8	1.4	0.5	1.0	0.5	24	iPZX	01 12 14.6	09.0i	0.6	0.3	1.3	0.2	0.8	0.3	-1.6
24	iPZX	16 05 09.3		09.1i		2.1	0.5	5.5	0.2	3.0	0.2	24	iPZX	01 21 03.8	08.7i	0.6	0.3	1.5	0.2	0.9	0.2	-0.7
24	ePZX	16 19 34.8		11.5i		0.8	0.6	1.4	0.4	0.9	0.6	24	eXN	50 13.5		0.8	0.6X	0.7	0.7X	0.5	0.6X	
24	ePZX	16 20 38.3		14.5i		2.2	0.5	2.8	0.5	2.5	0.8	24	eX1ZX	02 04 50								
24	ePZX	16 38 20.4		10.2		0.7	0.5	1.3	0.2	0.6	0.5	24	eX2Z	02 05 19.5		0.7	0.9X2	0.8	0.5X1	0.8	1.1X2	
24	iPZX	17 31 00.3										24	ePZX	03 10 46.3								
24	eXZX	31 12.7		14.1		0.5	0.7	1.4	0.3	0.5	0.6	24	eX1N	03 10 58.2								
24	eXZX	17 31 47.				0.6	0.6	1.5	0.5	0.6	0.6	24	eX2N	03 11 15.5		2.4	1.0X2	2.0	1.1X2	1.4	0.8X2	
24	eXZX	17 35 15.5				0.9	0.5	1.2	0.3	0.8	0.5	24	ePZX	04 08 18.6	29.1	21.1	0.7	21.5	1.0	22.4	0.9	
24	ePZX	17 37 51.4		13.4		0.8	0.5	0.8	0.2	0.7	0.5	24	iXZX	04 40 19.1								
24	iPZX	18 01 55.4		12.5i		1.3	0.5	2.1	0.6	1.5	0.5	24	iPZ	04 40 29.5	12.5i	0.5	0.5	1.4	0.2	1.1	0.6	
24	iPZX	18 20 41.3		11.2i		5.8	0.6	11.0	0.3	5.3	0.4	24	iXN	05 06 05.0		29.1	1.2X	38.2	1.2X	34.		

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Date	Phase	Time(JST) h m s	P-S m s	Amplitude(mm) · Period(sec)			Initial motion(mm)
				Z	N	E	
25	eX1ZK	09 27 24.7		1.0 0.7X2	1.6 0.8X2	0.7 0.6X2	
25	eX2N	28 47.5					
25	ePZX	09 37 12.8	10.5	0.9 0.6	1.6 0.3	1.3 0.3	
	iX2Z	37 22.0		1.2 0.5	2.6 0.4	1.5 0.6	
25	ePZX	09 44 50.2	09.9	1.2 0.5	2.8 0.4	1.3 0.3	
25	ePZX	09 45 40.9	20.6	1.2 0.5			
25	ePZX	10 15 17.6		0.7 0.7X	1.3 0.7X	0.7 0.3X	
	eYN	15 31.0		1.2 0.6	2.9 0.3	1.5 0.5	-4.8
25	iPZX	11 04 17.2	09.3i	1.8 0.6	2.9 0.4	2.4 0.3	-0.6
25	iPZX	11 08 10.7	10.3i	0.6 0.6	1.4 0.6	1.2 0.8	+0.7
25	iPZX	11 10 12.0	24.3	0.6 0.6	3.9 0.7	2.7 0.7	
25	iPZX	11 16 42.8	16.7	2.4 0.6			
25	ePZX	11 20 15.6	23.5	1.0 0.6	1.8 0.8	1.5 0.7	
25	ePZX	12 02 31.0	15.3	1.4 0.7	2.0 0.5	1.0 0.6	
25	ePZX	12 24 08.5	16.1	4.4 0.6	5.5 0.7	4.0 0.7	
25	ePZX	12 26 03.5	10.0i	0.9 0.6	1.3 0.2	1.3 0.3	
	eYN	28 13.5					
25	ePZX	12 29 33.2		0.9 1.1X	1.1 0.3X	1.0 1.2X	
	eYN	30 02.7		2.4 0.5	1.6 0.6		
25	ePZX	12 31 35.0	13.3	1.2 0.3			
25	iPZX	12 41 47.4					
	eX1Z	41 58.0		1.1 0.7X2	1.9 0.6X2	1.3 0.7X2	-0.8
	eX2N	42 06.7		2.0	1.5 0.4	-2.1	
25	iPZX	12 49 51.5	09.3	1.4 0.6	1.6 0.6	1.1 0.8	
25	ePZX	12 50 54.5	09.0	1.0 0.8	1.6 0.4	0.6 0.7	
25	ePZX	13 12 01.0	09.7	7.1 0.5	12.5 0.4	0.3 0.3	
25	ePZX	17 15 13.2	09.9	0.5 0.6	1.3 0.7	0.3 0.3	
25	ePZX	13 50 26.6		3.8 0.9X	4.0 0.7X	3.0 1.1X	-0.8
	eX2Z	50 10.0		1.4 0.5	0.7 0.1		
25	iPZX	14 03 01.8	09.7i	0.7 0.6	1.4 0.5	1.5 0.8	
25	ePZX	14 23 41.3	13.3	1.8 0.5	2.0 0.7		
25	ePZX	15 05 54.1		0.8 0.7	2.0 0.2	0.6 0.2	
25	iY2Z	06 04.5	12.6i	0.7 0.5	0.7 0.6	0.6 0.6	+0.7
25	iPZX	15 21 11.5	17.4i	0.7 0.5			
25	ePZX	15 34 22.1		0.6 0.5X	0.8 0.5X	0.6 0.5X	
	eYN	34 58.9		10.6 0.5	7.5 0.0		
25	ePZX	15 49 51.5	15.8	7.4 1.0	10.6 0.5	0.5 0.2	
25	ePZX	16 07 24.5	10.6	0.5 0.5	0.6 0.3	0.5 0.5	
25	ePZX	16 15 52.9	26.6	0.5 0.6	0.7 0.7	0.5 0.5	+1.4
25	iPZX	16 25 01.3	16.2	7.1 0.7	8.9 0.7	8.2 0.6	
25	iPZX	16 41 00.5	12.0	2.2 0.7	4.7 0.5	2.9 0.5	+0.9
25	iPZX	16 45 52.7	21.0	0.9 0.8	0.8 1.0	0.5 0.8	-0.7
25	iPZX	16 59 49.7	11.3	1.3 0.4	2.5 0.3	2.4 0.3	
25	iPZX	17 13 12.9					
	iY2Z	13 27.1	17.1	0.7 0.3P	2.0 0.3	0.9 0.5	+0.4
25	ePZX	18 13 14.0					
	eX2Z	13 55.4		1.7 0.7X	2.5 0.8X	1.5 0.8X	
25	ePZX	18 22 22.6	09.9i	4.3 0.7	6.5 0.6	4.3 0.6	
25	ePZX	18 24 58.8	13.9	1.5 0.9	2.3 0.8	1.6 0.8	-0.3
25	iPZX	18 46 10.8	25.3	1.0 0.7	2.4 0.8	1.6 0.9	
25	ePZX	19 52 33.7		3.4 0.7X	3.9 1.0X	2.5 1.0X	+0.1
	eX2Z	52 10.5		18.5 0.7	(8)		
25	iPZX	18 58 15.4	07.8	0.8 0.5			
25	iPZX	19 53 08.8	10.5i	10.9 0.1	14.0 0.5	3.5 0.7	-0.6
25	iPZX	20 05 06.0	11.6	2.5 0.5	7.4 0.5	2.0 0.8	+1.0
25	iPZX	20 30 43.8	14.7	0.9 0.6	1.3 0.4	0.7 0.7	+1.0
25	ePZX	20 36 03.8	23.3	0.6 0.8	0.5 0.4	0.5 0.4	
25	ePZX	20 39 33.5	26.6	0.7 0.9	0.7 0.7	0.6 0.7	-0.6
25	ePZX	20 45 52.4	10.1	0.7 0.5	1.0 0.5	0.8 0.5	-0.2
25	iPZX	20 48 42.4	17.3i	4.0 0.6	5.5 0.5	5.0 0.6	-1.0
25	iPZX	20 50 22.6	10.6i	1.5 0.5	2.1 0.5	1.0 0.4	+1.4
25	iPZX	20 53 30.2		50	50		
25	iPZX	21 40 09.2	10.8	0.5 0.6	0.5 0.3	0.8 0.6	

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Date	Phase	Time(JST) h m s	P-S m s	Amplitude(mm) · Period(sec)			Initial motion(mm)
				Z	N	E	
25	ePZX	22 30 20.5		15.0	0.6 0.7	2.0 0.3X2	1.5 0.7X2
25	ePZX	22 32 26.2			0.7 0.5	0.8 0.5	0.8 0.5
	eX2Z	32 46.0					
25	ePZX	22 34 35.5	08.0				
	eSN	39 20.5	36.1	5.1 1.3X	8.2 0.6X	4.3 1.1X	
	eYN	22 41 25.6	18.6	25.4 0.7	30.9 0.7	30.8 0.4	
25	iPZX	22 44 59.6					
	iY2Z	45 07.7	10.2i	0.8 0.5	1.3 0.2	1.3 0.4	-3.2
25	ePZX	22 50 43.7	21.8i	1.8 0.6	1.8 0.6	1.6 0.6	
25	ePZX	22 54 20.2	13.9i	11.1 0.6	12.3 0.8	9.5 0.5	
25	iPZX	23 04 18.2	11.6	0.7 0.5	0.9 0.8	0.4 0.5	-0.5
25	ePZX	23 19 07.5					
	eYN	23 19 28.0					
25	ePZX	23 22 18.7	08.8	1.0 0.5	1.9 0.3	1.5 0.3	
25	iPZX	23 32 34.6	13.7	0.7 0.5	0.9 0.5	0.7 0.6	-2.0
25	ePZX	23 33 58.3	11.2	2.5 0.5	4.2 0.8	2.4 0.5	
25	iPZX	23 53 59.5	09.3i	1.4 0.7	2.3 0.5	1.2 0.5	-0.5
	ePZX	00 19 53.7	09.2i	1.5 0.6	2.2 0.4	1.4 0.7	
26	iPZX	00 33 16.5	11.0	0.7 0.5	1.2 0.5	0.8 0.5	-1.8
26	iPZX	00 49 02.0	09.5	0.7 0.5	1.4 0.3	0.8 0.5	
26	ePZX	00 56 21.0	12.4i	1.8 0.6	2.0 0.6	1.4 0.6	
26	ePZX	00 59 08.8	12.3	0.6 0.6	0.9 0.6	0.7 0.7	
26	ePZX	01 14 28.6	14.2i	0.8			

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)				Initial motion(mm)
				Z	N	E		
26	ePZX	08 40 00.7	10.0i	0.9 0.5	1.4 0.5	1.1 0.4		
26	ePZX	09 04 47.2	10.5i	0.9 0.4	1.4 0.5	1.2 0.2		
26	iPZX	09 16 51.8	11.4	0.5 0.6	0.8 0.3	0.6 0.5	+1.3	
26	ePZX	09 21 11.0		0.6 0.8X	0.7 0.7X	0.4 0.8X		
26	eXZ	21 44		8.7 0.7	(19)	9.0 0.3	-1.6	
26	iPZX	09 27 52.0	06.7i	8.7	0.7 0.8	1.2 0.5	0.7 0.4	
26	ePZX	09 29 34.5		0.7	0.8	1.2 0.5		
26	ePZX	09 48 23.7		0.8 0.7	1.5 0.4	1.2 0.5	+0.9	
	iXZ	48 30.5	08.6i	0.9 0.4	2.0 0.3	0.9 0.6		
26	iPZX	09 56 01.9	09.1i	0.9 0.7	1.4 0.6	1.0 0.7		
26	ePZX	10 06 19.0	12.6	0.7 0.6	1.4 0.3	0.6 0.6	-1.6	
26	iPZX	10 17 12.2	13.8i	0.7 0.6	7.1 0.4	3.8 0.4	+3.8	
26	iPZX	10 43 08.3	10.7i	2.6 0.5	9.0 0.4	4.5 0.7	+3.6	
26	iPZX	10 48 15.3	10.5i	4.1 0.7	6.7 0.7	3.2 0.5		
26	ePZX	11 19 36.6	10.2i	4.0 1.0				
26	iPZY	11 29 52.9	11.9	4.3 0.6	8.4 0.4	6.9 0.5	-3.5	
26	ePZX	11 55 35.0	27.5	0.5 0.6	0.9 0.7	0.7 0.5		
26	ePZX	12 07 59.5		0.6 0.6X	0.8 1.0X	0.7 1.1X		
	eXN	08 55						
26	eYIX	12 17 24.2		0.7 0.6X2	1.1 0.4X2	0.5 0.5X2		
	eX2N	17 38.0		0.7 0.4	0.7 0.5	0.5 0.5		
26	ePZX	12 19 58.1	20.7	0.5 0.5	0.9 0.3	0.4 0.3		
26	ePZX	13 00 42.3	10.7	1.1 0.7P	0.4 0.7P	0.3 0.6P	+0.8	
26	iPZX	13 10 10.3					-0.6	
26	iPZX	13 57 20.4	09.6i	0.8 0.6	1.2 0.4	1.1 0.3	-0.7	
26	iPZX	14 55 18.7	11.3	0.8 0.5	1.2 0.3	0.5 0.5	-1.6	
26	iPZX	15 02 39.4	38.3	0.9 0.4	2.2 0.5	1.4 0.4		
26	eY1ZX	15 26 24.5						
	iZ2ZX	27 24.5		1.0 0.6X3	1.3 0.7X3	1.2 0.7X3		
	e13P	27 49.0						
26	iPZX	15 40 12.4						
26	eX1N	40 23.3		6.0 1.5X2	6.4 0.7X2	4.3 2.0X2	+1.6	
	eX2N	40 33.8						
26	iPZX	15 50 08.9	10.2i	1.5 0.7	2.3 0.8	1.0 0.6	+0.5	
26	ePZX	16 02 38.8	14.6	0.5 0.7	0.5 0.7	0.3 0.4		
26	iPZX	16 08 52.2	13.5	1.0 0.6	2.5 0.3	1.1 0.4	-1.4	
26	iPZX	16 25 03.8	11.8	5.5 0.5	10.9 0.3	8.0 0.5	-8.7	
26	iPZX	16 30 35.3	28.4	0.5 0.9	0.7 0.3	0.4 0.5		
26	ePZX	16 43 23.6	12.0	0.8 0.3	2.1 0.3	1.3 0.3	+0.5	
26	iPZX	16 58 27.0	08.9	2.7 0.6	4.4 0.5	2.4 0.5	-0.4	
26	iPZX	17 12 40.5	21.1	1.1 0.6	1.3 0.8	0.9 0.5	-1.0	
26	ePZX	17 17 13.3	09.7i	0.5 0.5	0.5 0.5	0.7 0.4		
26	eY1Z	17 20 17.5		0.8 0.6	0.8 0.5	0.7 0.7		
	eSP	20 32.9						
26	eY1ZY	17 57 37.2		0.5 0.6Y2	0.3 0.7X2	0.2 0.6X2		
	eY2Z	58 28.3		2.1 1.0	2.5 0.8	2.1 0.9		
26	ePZX	18 03 56.1	1.07.3	0.5 0.5	0.8 0.4	0.5 0.5		
26	ePZX	18 11 37.0	09.6	0.6 0.6	1.2 0.3	0.8 0.2	-1.4	
26	iPZX	18 17 50.4	09.8	1.5 0.5	2.0 0.3	1.5 0.5	-0.8	
26	ePZX	18 21 52.9	13.8i	1.5 0.5	2.0 0.3	1.5 0.4		
26	iPZX	18 40 44.2	11.8	0.7 0.7	0.8 0.5	0.5 0.2		
26	iPZX	18 44 50.8	09.4i	0.4 0.5	1.7 0.3	0.8 0.2	+3.4	
26	iPZX	18 52 44.4	09.3i	1.7 0.6	3.4 0.3	1.0 0.3		
26	ePZX	19 23 02.1		1.5 0.5X	2.5 0.5X	1.8 0.6X		
	eXN	23 12.9		0.6 0.5	1.3 0.3	1.0 0.5		
26	ePZX	20 05 31.7	12.9	1.3 0.6	1.1 0.3	0.7 0.7		
26	iPZX	20 48 17.5	09.5i	1.2 0.4	4.3 0.4	2.6 0.2	-1.2	
	iXZ	48 24.8		1.0 0.7	1.6 0.6	0.9 0.6	+0.1	
26	iPZ	20 59 53.9	09.7i	5.4 0.5	6.3 0.5	4.5 0.3	+1.8	
26	iPZX	21 16 01.6	12.9	0.5 0.6	0.9 0.4	0.4 0.5		
26	ePZX	21 42 39.6	10.7i	0.5 0.6	0.9 0.4	0.9 0.5	+0.2	
	iZ2Z	42 37.0		0.5 0.6	1.7 0.6	0.9 0.5		
26	iPZY	21 55 37.0	09.7	1.3 0.6	1.1 0.3	0.7 0.7		
26	ePZY	23 03 39.3	12.3	1.3 0.6	1.1 0.3	0.7 0.7		

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)					Initial motion(mm)
				Z	N	E			
26	iPZX	23 04 53.9		4.5 0.6X	6.1 0.7X	4.0 0.9X		-1.0	
26	eXN	04 08.3		0.5 0.2	1.1 0.2	0.4 0.4			
26	ePZX	23 14 52.0	09.3i						
26	iPZX	23 21 16.6		0.6 0.7X	0.9 0.7X	0.7 0.7X			
26	eXN	21 29.3		0.6 0.5	0.7 0.3	1.0 0.3		-1.2	
26	iPZY	23 29 23.5	25.0						
27	eYIX	00 10 11.3		0.6 0.6X	0.7 1.0X	0.5 0.5X			
27	ePZX	00 11 30.6							
27	eXN	11 38.5		1.2 0.6X	1.6 0.4X	1.4 0.6X			
27	iPZX	00 53 45.7	09.3i	0.5 0.7	0.9 0.3	0.5 0.2		-1.2	
27	ePZX	01 02 39.7							
27	eXZ	03 03 03.5		0.7 0.8X	0.8 1.0X	0.7 0.8X			
27	eY1ZX	01 18 38		0.9 0.5X2	1.3 0.7X2	0.9 0.5X2			
27	eY2Z	19 16.1							
27	iPZ	01 23 05.9	13.1	0.7 0.5	1.3 0.3	0.7 0.5		-1.4	
27	iPZ	01 27 15.2	09.6i	4.7 0.5	4.0 0.4	2.3 0.3		+1.2	
27	ePZX								

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Date	Phase	Time(JST)	P-S	Amplitude(mm) • Period(sec)						Initial motion(mm)	
				b	r	s	m	s	Z		
27	ePZX	15 02 22.5			1.2	0.8	3.2	0.6	1.8	0.9	-
27	ePZX	15 13 27.1	25.9		10.8	0.5	16.0	0.6	10.3	0.6	-
27	ePZX	15 23 10.7	12.3		1.3	0.7	2.0	0.6	1.2	0.5	-
27	ePZX	15 30 23.9	10.6i	0.7	0.5	1.3	0.3	0.8	0.7	-	-3.0
27	iPZX	15 42 12.4	09.2	1.0	0.6	1.3	0.2	1.0	0.8	-	-
27	ePZX	15 44 16.0	12.4	2.3	0.4	3.1	0.7	1.8	0.5	-	-
27	ePZX	15 50 07.7			1.1	0.8X	1.1	0.5X	1.1	0.6X	-
27	iZ	15 50 23.0			4.5	0.7	5.9	0.4	5.1	0.8	-3.4
27	iPZX	15 56 25.9	13.7i		0.5	0.6	0.8	0.3	0.4	0.4	-
27	ePZX	16 58 15.5	11.6		1.4	0.6	1.4	0.2	0.9	0.5	-
27	ePZX	17 01 01.2	14.3		1.0	0.9	0.9	0.4	0.7	0.8	-
27	ePZX	17 31 29.7	22.1		1.0	0.5	1.1	0.5	0.7	0.5	-
27	ePZX	17 37 16.8	11.7i		0.9	0.4	1.5	0.7	0.8	0.7	-
27	ePZX	17 44 17.2	13.2i		0.9	0.4	1.5	0.7	0.8	0.7	-0.7
27	iPZX	18 03 37.1	09.5i	7	0.7	13.9	0.6	7.0	0.8	-	-
27	ePZX	18 06 18.2	22.2		1.5	0.4	2.8	0.5	1.5	0.3	-
27	ePZX	18 30 34.0	14.5		0.6	0.7	1.2	0.5	0.7	0.8	-
27	eZX	18 57 39.5	11.8		4.7	0.7	5.8	0.7	3.9	0.6	-
27	iPZX	19 21 38.0	09.5		0.8	0.4	1.3	0.5	1.0	0.4	-0.8
27	iPZX	19 38 48.3			8.1	1.2X	6.3	1.1X	6.9	1.1X	-
27	eZN	19 44 04.5			0.9	0.2	1.2	0.3	1.0	0.5	-
27	ePZX	20 07 22.3	11.8		0.9	0.2	1.2	0.3	1.0	0.5	-
27	ePZX	20 09 00.3			1.2	0.7X	1.4	0.5X	1.3	0.7X	-
27	eZN	20 35 33.8			0.5	0.4	0.4	0.5	0.3	0.4	-
27	ePZX	20 32 15.4	11.3i		0.6	0.5	0.8	0.5	0.5	0.1	-
27	ePZX	20 33 21.2	20.3i		6.5	0.5	8.2	0.6	5.9	0.5	-
27	iPZX	22 06 04.1	21.2i		1.0	0.7	1.2	0.6	1.2	0.6	-0.5
27	iPZX	22 12 20.9			0.5	0.6	0.7	0.2	1.0	0.3	+0.8
27	iX12X	22 22 22.3	14.2		1.0	0.7	1.2	0.6	1.2	0.6	-
27	iPZX	22 25 03.5	09.9		0.5	0.6	0.7	0.2	1.0	0.3	+0.8
27	iXZX	25 10.5	10.6		3.0	0.5	6.0	0.4	3.5	0.5	+1.6
27	iPZX	25 35 56.6	10.6		2.3	0.7	2.9	0.4	2.5	0.5	+1.1
27	iPZX	25 42 43.3	15.1		3.3	0.5	6.6	0.7	4.3	0.6	-2.2
27	iPZX	25 15 57.4	13.2		3.3	0.5	6.6	0.7	4.3	0.6	-
27	eZX	25 19 28.5	09.4		0.9	0.7	1.4	0.2	0.9	0.3	-
27	ePZX	25 27 19.2	11.4		0.6	0.5	0.8	0.3	0.7	0.7	-
27	ePZX	25 37 53.1	19.7		0.5	0.7	0.4	0.6	0.3	0.6	-
27	ePZX	25 41 22.5	11.7		1.2	0.3	2.1	0.4	1.5	0.6	-1.0
27	iPZX	25 44 46.3	11.2		3.5	0.7	4.8	1.0	3.3	0.8	-
28	ePZX	00 32 50.2	25.2		0.9	0.7	1.4	0.8	0.9	0.8	-
28	ePZX	01 16 13.5	12.5		0.9	0.6	0.9	0.7	0.7	0.3	-
28	ePZX	02 00 50.8	10.6i	0.7	0.5	1.0	0.2	0.4	0.3	-	-
28	iPZX	02 05 23.2			0.5	0.7	0.9	0.5	0.5	0.4	-
28	eZN	05 34.7			1.8	0.7X2	2.1	0.5X2	1.9	0.6X2	-0.2
28	iX2N	05 38.2			0.5	0.6	0.9	0.3	0.5	0.4	-
28	ePZX	03 14 09.6	11.4		0.5	0.6	0.6	0.3	4.7	0.5	-1.4
28	iPZX	03 39 29.2	08.8		0.6	0.6	0.6	0.3	0.7	0.5	-1.0
28	iPZX	03 47 39.7	10.7		0.6	0.5	1.1	0.2	0.6	0.6	-
28	ePZX	03 53 59.4	13.1		1.0	0.6	0.7	0.6	0.6	0.6	+0.3
28	iPZX	03 58 03.4	11.0		1.1	0.5	1.2	0.4	0.7	0.4	+1.7
28	iPZ	04 00 04.9	02.6i		17.3	0.6	26.5	0.3	17.4	0.5	-
28	iPZX	04 16 08.4			2.8	0.3	2.5	0.2	2.1	0.7	-1.2
28	iXZ	10 15.1	09.0i	1.3	0.5	3.7	1.0	3.7	1.0	+5.2	-
28	iPZX	04 55 03.4	02.5i	3.7	0.5	5.4	0.2	4.1	0.2	-1.0	-
28	iPZX	05 01 51.7	10.4i	1.1	0.7	1.8	0.2	1.3	0.2	-	-
28	ePZX	05 08 57.6			0.7	0.5X	0.8	0.5X	0.7	0.6X	-
28	eZN	09 20.7			1.8	0.7X2	2.1	0.5X2	1.9	0.6X2	-
28	ePZX	05 10 53.5	42.9	1.5	1.1	2.3	1.0	2.1	0.7	+0.2	-
28	iPZX	05 38 36.3	09.6i	0.6	0.7	1.0	0.3	0.5	0.7	-	-
28	ePZX	06 31 48.9	12.9i	0.8	0.5	1.3	0.3	0.8	0.4	-	-
28	ePZX	06 23 12.0	12.8i	1.6	0.6	1.9	0.5	1.4	0.5	-	-
28	ePZX	06 28 35.0	10.8	7.3	0.5	20	0.7	8.2	0.5	-	-
28	ePZX	06 54 33.6	10.9	0.5	0.6	0.5	0.7	0.5	0.6	-	-

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Date	Phase	Time(JST)	P-S	Amplitude(mm) • Period(sec)						Initial motion(mm)			
				b	r	s	m	s	Z	N	E		
28	ePZX	07 06 54.3			14.3			13.2	0.5	17.9	0.7	11.0	0.7
28	iPZX	07 14 16.6						13.1i				-4.1	
28	ePZX	07 31 41.5							0.7	0.7X</td			

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)						Initial motion(mm)
			h	m	s	m	s	Z	N	S	E	
28	iPZ	21 21 34.2				18.1		0.6 0.5	0.4 0.5	0.5 0.5		
28	ePZX	21 33 27.9				11.5		0.5 0.6	0.6 0.6	0.4 0.5		
28	ePZX	22 00 40.5										
28	ePZX	22 03 29.5										
28	eY1Z	09 48.5						5.8 1.1X2	5.1 0.9X2	3.5 0.9X2		
28	eY2N	09 52.4						0.7 0.5	0.9 0.6	0.5 0.4		
28	ePZX	22 18 57.9	13.1					6.7 0.7	10.2 0.8	7.5 0.8	-3.8	
28	iPZX	22 22 27.9	15.2					0.7 0.5	0.9 0.3	0.5 0.5		
28	ePZX	22 30 58.8	14.0i					0.7 0.5	0.9 0.3	0.5 0.5		
28	ePZX	22 34 02.8										
28	eXM	34 25.5						1.0 0.9X	1.6 0.7X	0.8 0.9X		
28	iPZ	22 35 31.2				7.9 1.1P	11.1 1.4P	6.9 1.2P	+2.0			
28	iPZX	22 44 25.3	09.5i			0.5 0.3	1.4 0.2	0.9 0.2	-2.1			
28	ePZX	22 51 26.2	16.9i			1.9 0.7	3.1 0.5	2.5 0.6				
28	ePZX	22 55 23.7	10.5i			0.7 0.5	1.2 0.2	0.7 0.4				
28	iPZX	23 00 13.0	25.6			1.2 0.9	1.8 0.5	1.4 1.0	+1.4			
28	iPZX	23 30 41.8										
28	iXZ	31 04.0	20.4i			16.8 0.7	21.2 1.3	17.4 1.3	+1.8			
28	ePZX	23 48 17.0	11.0i			0.5 0.4	1.0 0.2	0.8 0.5				
28	iPZX	00 22 12.3	11.7i			5.4 0.6	7.2 0.4	4.4 0.5	+1.1			
28	iPZX	00 55 21.7	12.3i			3.8 0.5	7.1 0.9	4.2 1.1	+1.8			
28	iPZX	01 16 08.0	12.1			0.7 0.7	1.0 0.5	0.6 0.4	+0.4			
28	ePZX	01 24 02.0										
28	eXM	24 36.5				1.0 0.6X	1.3 1.1X	1.2 1.1X				
28	iPZX	01 31 18.1	09.0			5.3 0.6	3.1 0.6	5.5 0.5	+4.2			
28	iPZX	01 46 52.3	09.9			1.7 0.3	3.9 0.6	1.9 0.6	-5.6			
28	ePZX	02 00 56.8										
28	eY1Z	01 16.2				1.0 0.8X	1.5 0.6X	1.0 1.1X				
28	ePZX	02 18 24.0	12.7i			1.2 0.6	2.5 0.5	1.6 0.4				
28	ePZX	02 27 22.5										
28	eY2N	27 52.3				0.6 0.7X	1.0 0.8X	0.7 0.7X				
28	iPZX	02 32 55.0	11.5			1.6 0.5	2.2 0.6	1.9 0.7	-0.2			
28	iPZX	02 51 10.3				5.6 0.7	10.5 0.2	4.4 0.3	+4.0			
28	iY2Z	51 17.9	09.2i			0.8 0.7	1.2 0.7	1.3 0.6	-1.0			
28	iPZX	02 54 02.8	15.2			0.8 0.7	1.2 0.7	1.3 0.6				
28	ePZX	02 58 14.5	15.4			0.6 0.6	0.9 0.5	0.9 0.5				
28	iPZX	03 16 36.3	13.7			0.7 0.6	1.0 0.4	0.9 0.6				
28	iPZX	03 26 33.8	27.4i			1.8 0.5	2.5 0.4	1.6 0.5	+1.0			
28	iPZX	03 34 16.6	11.2i			1.4 0.5	1.6 0.4	0.9 0.6	+0.7			
28	iPZX	03 43 34.0	11.0			1.8 0.5	2.5 0.6	1.8 0.6	+0.5			
28	iPZX	04 21 16.2	11.4i			19.5 0.8	32.5 0.7	19.3 0.6	-1.9			
28	iPZX	05 13 17.5	10.5i			2.0 0.7	4.0 0.4	2.2 0.5	+2.3			
28	iPZX	05 19 53.5	11.2i			2.2 0.7	4.1 0.5	2.7 0.5	-3.0			
28	ePZX	05 36 00.3	56.7			1.6 0.7	2.1 0.8	1.3 0.7				
28	iPZX	06 16 10.9										
28	eY2Z	16 17.0	16.5			2.0 0.7	3.7 0.8	2.1 0.6	+0.7			
28	iPZX	06 18 27.3	09.4i			1.5 0.7	3.0 0.2	2.8 0.3	-0.8			
28	ePZX	06 20 30.6	20.0			1.3 0.6	1.5 0.6	1.4 0.7				
28	iPZX	06 49 04.3	10.4i			0.8 0.5	1.3 0.3	0.8 0.6	-0.7			
28	iPZX	07 06 44.5	12.5			14.0 0.5	11.2 0.5	9.3 0.8	-4.5			
28	ePZX	07 09 31.6	14.8			0.6 0.6	0.6 0.5	0.5 0.6				
28	iPZX	07 34 58.1	4.07			1.0 0.9P	0.8 1.3P	0.7 1.3P	+1.1			
28	ePZX	08 01 05.1										
28	iY2Z	01 16.1	19.9			26.4 0.7	26.5 0.5	23.8 0.5				
28	iPZX	08 05 09.9	13.9			0.7 0.6	0.7 0.3	0.4 0.5	+1.0			
28	iPZX	08 44 12.5	09.2i			12.7 0.6	14.0 0.5	11.1 0.3	-3.9			
28	ePZX	08 53 47.5	10.6			1.5 0.6	1.9 0.5	1.8 0.4				
28	iPZX	08 58 13.4	22.3i			1.1 0.5	1.7 0.5	0.8 0.5	+1.1			
28	ePZX	09 20 01.1	23.6			0.5 0.5	0.8 0.6	0.6 0.6				
28	iPZX	09 46 37.3	09.0			0.6 0.5	1.1 0.2	0.9 0.2	+0.4			
28	iPZX	09 51 00.7	12.7			2.5 0.5	2.6 0.5	1.8 0.5	+0.7			
28	ePZX	11 00 08.3	09.3			0.1 0.5	1.7 0.2	1.6 0.2				
28	ePZX	12 29 10.9	19.6			1.0 0.8	1.8 0.6	1.7 0.8				

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)						Initial motion(mm)
			h	m	s	m	s	Z	N	S	E	
29	iPZX	11 32 57.9				10.5i		0.7 0.5	1.1 0.3	0.6 0.4	+0.6	
29	iPZX	11 56 08.5										

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)				Initial motion(mm)	
				h	m	s	Z		
30	ePZX	05 43 58.0	10.2	1.0	0.7	1.5	0.5	1.0 0.2	-
30	ePZX	05 46 12.0	10.1	0.9	0.3	2.4	0.2	0.6 0.7	-
30	iPZX	05 55 04.7	12.3	2.4	0.6	2.2	0.5	1.9 0.5	+1.0
30	iPZX	06 22 35.8	12.9	0.7	0.6	1.5	0.6	0.8 0.7	-0.4
30	iPZX	06 28 39.5	08.3	0.8	0.5	1.6	0.3	0.8 0.2	-
30	ePZX	06 42 58.2	09.5	1.5	0.4	3.2	0.3	1.8 0.5	-
30	iPZX	07 32 02.2	11.2i	1.2	0.7	1.7	0.5	1.2 0.5	-1.0
30	iPZX	07 45 55.5	10.5	0.6	0.5	0.8	0.5	0.5 0.6	-0.5
30	ePZX	08 21 41.8	12.7i	4.5	0.5	7.5	0.3	3.5 0.4	-
30	iPZX	08 29 25.5	09.4i	1.1	0.6	2.3	0.2	1.1 0.4	+1.6
30	eXZ	09 37							-
30	ePZX	09 45 00.5	12.4	4.1	0.3	6.6	0.6	4.0 0.4	-
30	iPZX	10 09 21.8	13.2	1.5	0.5	2.5	0.4	1.9 0.5	+2.1
30	iPZX	10 29 40.2	08.9	1.5	0.6	1.6	0.8	2.0 0.4	+3.0
30	iPZX	10 41 19.0	09.7i	0.8	0.5	1.5	0.3	1.0 0.3	+1.4
30	iPZX	11 06 38.7	15.2i	0.8	0.5	1.8	0.3	0.9 0.5	-0.7
30	iPZX	11 18 27.5	11.0i	1.2	0.5	2.9	0.5	1.9 0.4	-0.9
30	ePZX	11 56 39.4	09.4	0.6	0.5	1.3	0.2	1.0 0.2	-
30	ePZX	12 15 58.8	13.1i	0.5	0.5	0.9	0.5	0.4 0.6	-
30	iPZX	12 20 17.8	11.4i	1.4	0.7	2.3	0.5	1.5 0.5	-1.6
30	iPZX	12 26 56.3	10.9i	0.6	0.5	1.0	0.7	0.6 0.4	-0.6
30	ePZX	12 41 30.1		0.6	0.6X	0.5	0.6X	0.5 0.5X	-
30	eZN	41 47.0							-
30	ePZX	12 52 55.5	27.0	0.5	0.6	0.7	0.8	0.5 0.7	-
30	iPZX	13 01 49.0		1.2	0.5	2.0	0.4	1.3 0.8	+1.0
30	iXZ	01 59.2	12.1i						-
30	iPZX	13 14 12.6	10.4i	22.4	0.7	28.2	0.6	24.9 0.6	+4.0
30	iPZX	13 37 27.7	27.8i	2.7	0.5	3.8	0.5	3.0 0.9	+0.8
30	iPZX	14 25 11.6							+3.2
30	ePZX	14 43 48.6							-
30	eYIN	44 04.5							-
30	eXZN	44 53.8							-
30	eXZN	45 30.8							-
30	ePZX	15 02 24.0							-
30	eXIN	02 33.6							-
30	eXZN	03 36.8							-
30	eXZN	06 06.5							-
30	eX4N	06 45.0							-
30	iPZX	15 24 36.0	14.0	10.3	0.6	14.0	0.5	7.1 0.6	-6.3
30	eXZX	15 28 23							-
30	ePZX	15 29 28.0	14.0	12.0	0.5	15.5	0.5	13.4 0.9	-
30	ePZX	15 44 45.5							-
30	eZN	45 52.5							-
30	ePZX	15 49 08.2	20.4	1.4	0.6	2.3	0.5	1.2 0.5	-
30	ePZX	16 15 21.1	13.2	0.5	0.5	0.9	0.8	0.7 0.5	-
30	ePZX	16 22 04.3							-
30	eZN	23 09.2							-
30	ePZX	17 30 11.1	10.9	1.5	0.5	2.1	0.5	1.9 0.6	-
30	ePZX	17 43 02.2							-
30	eYN	43 20.5							-
30	ePZX	18 04 46.6	19.9i	10.6	0.6	18.3	0.5	12.8 0.7	-1.9
30	iPZX	18 23 27.9	11.8	4.2	0.6	5.8	0.5	5.8 0.7	-
30	iPZX	18 26 52.5							-
30	eZN	26 10.5							-
30	ePZX	19 04 19.8	18.2i	1.5	0.6	3.0	0.6	2.3 0.5	-
30	ePZX	19 05 25.6	09.2	1.6	0.6	2.0	0.8	1.8 0.6	-
30	iPZX	19 26 50.9	10.1	0.8	0.5	1.5	0.5	0.8 0.6	+1.4
30	ePZX	19 48 02.1	13.9	1.0	0.5	1.7	0.5	0.8 0.4	-
30	iPZX	20 41 42.6	09.8i	2.1	0.6	4.0	0.5	3.0 0.5	+5.1
30	iPZX	20 57 39.8	10.8	0.5	0.4	0.9	0.4	0.4 0.5	-1.3
30	ePZX	21 19 40.3	27.7	4.5	0.5	5.1	0.8	7.4 0.6	-
30	ePZX	21 25 15.5	10.5	0.5	0.4	0.9	0.6	0.7 0.5	+0.8
30	iPZX	21 55 40.3	08.7	0.5	0.5	1.4	0.3	0.5 0.6	-
30	ePZX	23 30 54.1	15.5	0.9	0.7	1.4	0.3	1.2 0.6	-
30	ePZX	23 30 03.0							-
30	jYZ	39 14.4							-
30	ePZX	23 52 59.6	12.4	1.2	0.5	2.3	0.3	1.2 0.3	-

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)				Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)				Initial motion(mm)
				h	m	s	Z					h	m	s	Z	
31	ePZX	01 21 53.8	19.2i	4.3	0.6		5.1	0.6	4.0	0.6						
31	ePZX	01 38 48.8														
31	eXIZX	39 25.6														
31	eX2E	39 35.6														
31	iX3Z	40 11.0														
31	iPZX	01 44 46.8	11.0													
31	iPZX	01 47 59.4	10.7i													
31	ePZX	01 57 27.0														
31	iX1ZX	57 39.2														
31	eY2ZX	57 57.3														
31	iPZX	02 33 38.5	09.6i	0.8	0.5		1.6	0.3	1.2							

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Date	Phase	Time(IST)	P-S		Amplitude(mm) · Period(sec)				Initial motion(mm)	Rate		
			h	m	s	m	s	Z	N	E		
31	iPZY	19 30 10.5		06.0		2.9	0.5	3.4	0.5	2.9	0.6	-1.1
31	iPZX	19 34 30.7		12.9		6.4	0.7	12.5	0.7	6.7	0.5	+4.0
31	ePZX	21 16 30.2		12.5		0.9	0.5	1.2	0.7	0.9	0.5	+4.5
31	iPZX	21 19 35.9		12.61		6.5	0.6	11.7	0.7	7.4	0.6	-1.2
31	iPZX	22 53 59.3		12.41		4.8	0.5	13.5	0.4	8.9	0.8	-1.2
31	ePZX	23 00 52.1		23.01		1.4	0.5	2.1	0.8	2.0	0.6	
31	ePZ	01 05 0.9										
31	ePZX	03 34 15.0		10.0		0.8	0.5	2.2	0.3	1.2	0.4	

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Date	Phase	Time(IST)	P-S		Amplitude(mm) · Period(sec)				Initial motion(mm)	Rate		
			h	m	s	m	s	Z	N	E		
1	ePZY	00 19 45.9		11.9		0.5	0.4	1.2	0.2	1.0	0.6	
1	ePZX	00 27 32.8		14.21		0.8	0.5	1.3	0.9	1.4	0.6	
1	ePZY	01 22 53.8		14.31		3.8	0.4	7.0	0.5	5.9	0.8	
1	iPZX	01 32 55.9		10.1		2.9	0.6	2.8	0.5	3.7	0.5	-2.0
1	ePZY	01 37 29.5		24.2		0.5	0.5	0.8	0.5	0.4	0.5	+1.0
1	iPZX	01 54 34.3		10.9		1.5	0.5	2.1	0.3	1.5	0.6	
1	ePZX	02 17 58.4		13.81		0.5	0.5	1.1	0.5	0.5	0.5	-1.1
1	iPZX	02 26 00.2		12.31		0.7	0.5	1.6	0.3	0.9	0.5	-0.6
2	iPZX	02 56 30.0		11.6		1.4	0.4	2.0	0.3	1.5	0.7	
1	ePZ	02 57 15.0		20.8		3.8	0.6	4.5	0.8	3.5	0.7	
1	iPZX	03 01 27.6		10.3		2.8	0.6	4.4	0.4	3.5	0.7	-1.1
1	iPZX	03 07 08.6		06.41		1.6	0.7	4.3	0.2	2.5	0.5	-1.0
1	ePZY	03 10 56.1		11.6		0.5	0.4	1.1	0.2	0.8	0.5	
1	iPZX	03 24 17.9		10.7		2.2	0.4	3.5	0.5	2.1	0.2	-0.6
1	ePZX	03 37 17.3		15.2		0.7	0.5	1.4	0.5	0.7	0.7	
1	ePZX	04 04 43.3		11.8		1.3	0.5	2.4	0.6	1.7	0.6	
1	ePZX	04 16 48		11.1		0.6	0.3	1.7	0.3	1.2	0.3	
1	ePZX	04 35 19.8		12.8		0.6	0.5	1.4	0.6	0.7	0.6	
1	ePZX	04 43 04.6		11.3		1.7	0.6	7.8	0.7	2.4	0.5	
1	iPZ	04 52 12.6		11.4		50.0	0.7	71.0	0.7	58.5	0.5	-7.2
1	iPZ	05 34 15.2		12.7		10.3	0.5	10.0	0.5	7.9	0.7	-1.3
1	iPZ	05 51 04.6		10.9		0.7	0.3	3.2	0.4	2.2	0.6	+0.3
1	iPZ	05 53 40.7		11.6		10.5	1.0	9.6	0.5	6.7	0.5	-1.3
1	iPZX	07 18 56.6		08.01		0.7	0.3	1.2	0.3	1.2	0.2	+0.8
1	ePZX	08 21 02.8		08.91		0.8	0.4	1.8	0.2	1.4		
1	ePZX	09 28 31.5		19.9		1.2	0.5	2.5	0.2	1.5	0.6	
1	iPZX	09 50 32.8		24.41		1.6	0.9	3.7	0.7	1.5	0.5	+0.6
1	iPZX	09 56 18.2		15.4		16.7	0.3	19.9	0.6	18.2	0.5	-0.6
1	ePZX	10 11 37.0		09.5		0.9	0.5	1.8	0.3	1.3	0.2	
1	iPZ	10 29 52.6		10.51		3.5	0.8	7.4	0.7	4.4	0.6	-1.5
1	ePZX	11 19 05.6		10.6		0.8	0.6	0.8	0.6	0.6	0.6	
1	ePZX	12 22 03.1		13.7		11.0	0.7	14.0	0.7	10.5	0.6	
1	ePZX	12 28 42.4		49.7		1.0	0.6	1.6	0.3	1.2	0.5	
1	iPZX	12 37 56.3										
1	eZZX	12 46 06.4		12.21		0.5	0.6	1.9	0.2	0.9	0.3	+0.3
1	iPZY	12 46 54.7		10.51		0.5	0.4	1.2	0.3	0.7	0.4	-1.3
2	ePZX	12 58 52.5		09.5		0.7	0.5	1.7	0.2	1.2	0.2	
1	iPZX	13 41 41.6		41.5		1.0	0.5	2.7	0.3	1.3	0.4	-0.6
1	iPZX	13 59 18.2		11.3		5.4	0.7	7.9	0.2	5.2	0.4	+1.0
1	ePZX	14 02 19.3		13.01		0.5	0.5	1.3	0.2	0.6	0.7	+1.5
1	iPZX	14 05 19.4		12.01		0.8	0.4	1.6	0.6	1.0	0.7	+0.9
1	iPZX	14 09 42.0		09.31		1.5	0.6	2.2	0.3	1.8	0.4	
1	iPZX	15 01 21.6										
1	iZT	01 33.5		13.41		3.7	0.4	7.0	0.3	3.5	0.3	+0.5
2	iPZX	16 25 48.4		08.81		1.9	0.5	2.1	0.2	2.9	0.4	+2.1
2	ePZX	16 35 35.4		09.61		0.5	0.7	0.8	0.1	0.6	0.5	
2	iPZX	17 34 39.8										
2	ePZY	17 34 39.8										
2	iPZX	17 34 39.8										
2	ePZY	17 34 39.8										
2	iPZX	17 34 39.8										
2	ePZY	17 34 39.8										
2	iPZX	17 34 39.8										
2	ePZY	17 34 39.8										
2	iPZX	17 34 39.8										
2	ePZY	17 34 39.8										
2	iPZX	17 34 39.8										
2	ePZY	17 34 39.8										
2	iPZX	17 34 39.8	</td									

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)					Initial motion(mm)	
			h	m	s	Z	N	E	m	s	mm	
2	iPZK	17 39 46.4		8.4		0.8 0.5	1.3 0.6	0.7 0.7	-1.0			
2	ePZX	17 41 44.7		17.3		0.7 0.5	0.8 1.1	1.0 0.9				
2	iPZX	18 03 25.0		12.0		0.6 1.7	1.0 0.9	0.9 0.6				
2	CPZX	18 46 16.5		7.3		0.6 0.7	0.6 0.5	0.5 0.9				
2	iPZX	19 57 57.4		17.8		6.4 0.6	6.5 0.5	4.4 0.7	+1.8			
2	ePZX	19 07 06.7		25.0		2.3 0.6	2.9 0.8	2.1 0.9				
2	iPZX	19 31 07.4		13.1		1.9 0.5	1.9 0.4	1.4 0.6	-1.2			
2	ePZX	19 54 47.5		21		1.4 0.6	2.4 0.6	1.8 0.8				
2	iPZX	21 14 51.2		9.6		0.6 0.6	1.1 0.3	0.5 0.8	-0.8			
2	ePZX	21 17 33.4		7.6		2.2 0.4	5.7 0.3	2.9 0.4				
2	iPZX	22 03 07.1		14.3		0.7 0.5	0.8 0.6	0.8 0.5	+0.8			
2	ePZX	22 26 26.5		25.6		2.8 0.7	5.3 0.4	4.4 0.4				
2	iPZX	23 25 06.6		26.8		0.9 0.5	0.9 0.6	1.1 0.8				
2	ePZX	23 35 38.0		3.8		0.7 0.4	1.3 0.3	0.8 0.4				
2	ePZX	23 48 39.6	48	49.1	26.4	0.7 0.5	3.6 0.6	1.4 0.8				
3	ePZX	00 11 39.2		11.7		1.4 0.5	4.4 0.3	1.3 0.3				
3	iPZX	00 49 10.7		12.5		0.8 0.5	0.9 0.6	0.6 0.4	-0.8			
3	ePZX	01 00 03.9		10.0		1.4 0.6	2.8 0.6	2.1 0.7				
3	ePZX	03 53 40.9		14.7		2.2 0.6	4.3 0.7	3.4 0.6				
3	iPZX	05 09 10.6		17.8		0.7 0.5	1.1 0.4	0.7 0.5	+1.0			
3	iPZX	05 24 09.9		9.6		4.3 0.4	4.1 0.4	3.2 0.4	-1.0			
3	iPZX	05 39 52.5		10.5		1.1 0.6	1.3 0.6	1.1 0.5	+0.8			
3	iPZX	05 44 56.0		10.3		1.8 0.6	2.1 0.6	1.9 0.5	+1.6			
3	iPZX	05 52 10.6		8.8		3.2 0.5	3.7 0.7	1.8 0.7	+2.2			
3	iPZX	06 41 10.1		11.3		1.3 0.6	1.8 0.4	1.9 0.5	-2.2			
3	iPZX	07 10 25.9		11.1		6.4 0.4	7.5 0.5	6.7 0.5	-11.6			
3	ePZX	07 41 05.5		10.0		0.8 0.4	0.8 0.3	0.8 0.5				
3	iPZX	08 01 27.3		10.6		3.2 0.5		2.9 0.2	+4.2			
3	ePZX	08 13 23.6		13.4		4.4 1.1		2.7 0.9				
3	iPZX	08 20 03.7		14.7		7.5 0.6	4.1 0.4	7.1 0.5	+0.8			
3	iPZX	09 52 52.1		25.2		0.8 0.6	1.6 0.7	1.1 1.0	+0.6			
3	ePZX	10 57 38.8		13.9		0.9 0.5	1.3 0.4	0.8 0.7				
3	ePZX	11 06 25.3		20.2		1.6 0.5	2.2 0.4	1.6 0.4				
3	iPZX	11 12 41.2		10.3		>42	0.8	>44	0.7	>42 1.0	-5.0	
3	ePZX	14 33 27.0	1 11.5		1.4 0.6	2.3 0.4	1.8 0.9					
3	ePZX	14 45 43.5		13.3		0.6 0.2	1.2 0.3	0.7 0.5				
3	iPZX	14 47 53.9		11.6		37.0 0.8	>41 0.7	>32 0.7	-10.6			
3	iPZX	15 17 01.5		14.8		1.9 0.6	2.1 0.5	2.1 0.6	+0.8			
3	iPZX	15 59 54.2		9.1		6.6 0.4	9.3 0.3	4.0 0.5	+7.4			
** 3	ePZX	17 33 29.8	1 11.3		5.2 0.9	8.5 1.0	6.2 1.0					
3	ePZX	18 38 28.6		36.5		1.3 0.2	1.9 0.4	1.1 0.6				
3	ePZX	18 49 49.4		11.8		1.5 0.5	2.7 0.3	1.7 0.6				
3	iPZX	19 52 47.7		17.0		1.2 0.5	1.6 0.6	0.6 0.6				
3	ePZX	20 17 57.2		25.3		0.7 0.6	0.8 0.3	0.6 0.6				
2	iPZX	20 21 30.6		32.3		0.5 0.6	1.3 1.0	1.7 0.8	+0.4			
3	ePZX	20 25 52.0		11.6		1.1 0.3	3.6 0.3	1.5 0.2				
3	iPZX	20 43 32.6		10.9		9.5 0.5	14.5 0.5	11.5 0.4	+0.4			
3	iPZX	20 55 01.4		11.2		0.7 0.3	1.6 0.4	1.2 0.4	-0.8			
3	ePZX	21 02 24.0		8.3		0.7 0.3	1.4 0.2	0.8 0.4				
3	ePZX	21 15 31.0		6.5		0.7 0.4	1.3 0.2	1.7 0.4				
3	ePZX	21 24 02.5		13.0		1.2 0.4	1.6 0.3	1.1 0.5				
3	iPZX	21 30 17.7		10.5		9.9 0.6	12.6 0.9	9.1 1.2	-6.8			
3	iPZX	21 44 14.8		6.7		2.3 0.4	7.2 0.3	4.8 0.3	-4.8			
3	iPZX	21 46 12.2		14.8		14.9 0.7	18.0 0.8	7.1 0.6	-1.0			
3	ePZX	22 03 00.5		11.0		0.9 0.6	1.1 0.8	1.1 0.6				
3	iPZX	22 21 07.9		25.1		1.9 0.9	4.2 0.9	2.1 0.7	+1.0			
3	iPZX	22 45 14.8		10.0		>30 0.6	>30 0.5	>30 0.6	+30			
3	ePZX	23 17 32.8		57.6		>55 0.6		>60 0.8				
3	ePZA	23 33 12.1		10.4		0.6 0.4	1.1 0.4	0.7 0.6				
** Addenda	ePZX	16 26 16.2		10.7		1.4 0.6	1.7 0.6	1.3 0.5				
3	ePZX	16 37 43.8										
	iX1ZX	37 53.1										
	EX2E	38 30.8										
						1.2 0.5X2	1.8 0.5X2	0.8 0.5X2				

Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)					Initial motion(mm)

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Date	Phase	Time(JST)	P-S				Amplitude(mm) · Period(sec)			Initial motion(m)
			h	m	s	m	s	Z	N	
5	iPZX	09 56 18.2								
	IXIZ	56 28.9								
	ePZ	56 42.0								
5	iPZ	11 26 21.0	13.7i	0.8	0.5	1.9	0.3	0.7	0.4	-0.6
5	ePZ	11 26 21.0	13.7i	0.8	0.5	3.5	0.5	2.8	0.3	-0.6
5	ePZ	12 11 08.5	9.5	2.4	0.6	5.4	0.4	-0.6	-0.6	+0.4
5	iPZX	12 26 49.5	3.7i	3.1	0.4	3.7	0.2	1.4	0.7	-0.4
5	ePZX	12 43 24.5	11.1	1.5	0.6	2.1	1.0	1.4	0.7	-0.6
5	iPZX	12 43 27.7	6.5i	4.9	0.3	9.0	0.2	7.8	0.3	+0.6
5	ePZX	12 46 14.4	32.1	1.6	0.3	2.6	0.3	1.9	1.1	-0.6
5	ePZX	13 56 22.3	17.1	0.9	0.6	2.2	0.4	1.5	0.4	-0.6
5	iPZX	15 72 41.2	10.7i	2.5	-0.6	3.9	0.6	2.4	0.5	+0.8
5	iPZX	15 42 22.7	10.7	0.6	0.5	0.9	0.4	0.6	0.5	+0.8
5	iPZX	15 46 56.3	10.5	0.5	0.5	0.6	0.3	0.5	0.5	+0.4
5	ePZX	16 03 09.1	15.6	0.7	0.7	1.1	0.7	0.7	0.7	-0.6
5	ePZX	16 16 19.0	10.0	5.7	1.0	5.8	1.3	7.2	0.8	-0.6
5	iPZX	17 14 52.8	6.7	3.4	0.6	5.7	0.4	7.7	0.7	-0.6
5	ePZX	18 09 52.0	22.2	0.8	0.6	1.9	0.6	0.7	1.0	-0.6
5	ePZX	18 13 25.5	14.9	1.1	0.9	1.8	0.9	1.2	0.9	-0.6
5	ePZX	18 21 59.0	24.1i	0.8	0.6	1.3	0.4	0.8	0.9	-0.6
5	ePZX	18 23 24.7	15.3	SO SO SO SO						
5	ePZX	18 29 31.2	13.7i	4.0	0.6	6.5	0.4	3.8	0.5	+2.0
5	iPZX	18 57 10.3	14.3i	4.9	1.0	7.9	1.0	5.5	0.7	+2.0
5	ePZX	19 00 07.5	10.0	0.1	0.5	4.1	0.3	3.0	0.5	-0.6
5	ePZX	19 16 22.6	11.5i	1.9	0.5	4.2	0.4	3.1	0.6	-0.6
5	ePZX	19 45 16.1	16.3i	0.6	0.6	0.8	0.3	0.6	0.5	-0.6
5	ePZX	19 59 55.4	71.1i	0.5	0.6	0.7	0.5	0.3	0.6	-0.6
5	iPZX	20 17 23.1	9.0	1.5	0.5	1.9	0.3	1.3	0.4	-0.6
5	ePZX	20 22 12.2	14.2	0.7	0.7	1.7	0.7	1.2	0.7	-0.6
5	ePZX	21 12 45	14	0.6	0.4	1.0	0.5	0.7	0.5	-0.6
5	ePZX	21 32 52.1	9.5i	0.7	0.5	0.9	0.4	1.2	0.3	-0.6
5	ePZX	21 33 53.7	15.9	0.7	0.6	1.1	0.8	0.9	0.3	-1.4
5	iPZX	21 00 02.0	10.1	1.0	0.4	1.8	0.6	1.3	0.3	-0.6
5	ePZX	21 29 20.7	11.3	1.1	0.6	0.7	0.7	0.8	0.6	-0.6
5	ePZX	21 59 41.5	12.1	0.7	0.5	1.2	0.5	1.2	0.4	-0.6
6	ePZX	00 23 45.6	17.2i	1.9	0.6	2.1	0.4	1.7	0.7	-0.6
6	ePZX	01 20 57.2	14.2i	1.7	0.7	2.8	0.4	1.8	0.5	-0.6
6	iPZX	01 41 15.9	11.8	1.2	0.5	2.8	0.4	1.4	0.5	-1.0
6	iPZX	01 55 13.5	11.1i	4.9	1.5	5.3	1.0	3.5	0.8	+1.0
6	ePZX	02 04 18.0	17.2	1.5	0.9	2.7	0.9	2.2	0.9	-0.6
6	ePZX	04 25 17.8	26.4i	1.5	0.6	2.4	0.5	1.9	1.0	-0.4
6	iPZX	05 02 06.6	51.0	1.7	0.4P	2.0	0.5P	1.4	0.5P	-1.2
6	iPZX	05 42 00.6	11.9	0.6	0.6	1.5	0.3	0.9	0.4	+0.6
6	iPZX	06 42 43.3	18.1i	3.7	0.6	5.8	0.6	2.5	0.8	+0.8
6	iPZX	07 16 47.6	9.3i	1.6	0.7	2.3	1.1	2.0	0.8	+0.8
6	iPZX	07 23 24.5	7.2i	0.9	0.6	1.8	0.3	1.3	0.4	-1.4
6	ePZX	07 44 24.2	11.7i	0.6	0.6	1.1	0.4	0.4	0.6	-0.6
6	ePZX	08 02 10.3	17.4	1.4	0.5	2.5	0.4	1.1	0.4	-0.6
6	ePZX	08 29 31.4	12.4i	8.5	0.5	11.5	0.5	9.2	0.4	-0.6
6	ePZX	10 24 04.6	5.5	4.8	0.6	7.5	0.4	4.8	0.5	-0.6
6	ePZX	10 26 07.2	12.7	0.5	0.9	0.9	0.6	1.1	0.5	-3.4
6	iPZX	12 20 55.4	11.6	2.9	0.4	6.8	0.3	4.7	0.4	-0.6
6	ePZX	12 28 53.4	12.2	1.1	0.5	1.7	0.5	1.4	0.7	-0.6
6	ePZX	12 59 43.5	51.2	0.6	0.5	0.8	0.7	0.9	0.5	-0.6
6	ePZX	13 31 13.5	20.8i	3.0	0.6	4.8	0.8	4.0	0.7	-0.6
6	ePZX	14 10 44.6	17.4	3.4	0.7	4.3	0.7	2.7	0.7	-0.6
6	ePZX	14 56 51.0	9.5	0.5	0.5	1.3	0.3	0.6	0.2	-0.6
6	ePZX	14 59 18.0	45.5i	2.2	0.7	5.8	0.7	4.0	0.7	+0.6
6	ePZX	16 15 53.3	76.4i	0.6	0.6	0.9	0.9	0.6	0.7	+0.6
6	ePZX	17 07 32.1	12.3i	0.7	0.6	1.1	0.6	0.6	0.5	-0.6
6	iPZX	19 00 20.9	11.3	0.3	0.5	1.2	0.7	0.8	0.6	-0.6
6	ePZX	19 01 43.4	20.4i	0.7	0.6	1.7	0.6	0.9	0.6	-1.0
6	iPZX	21 30 56.3	7.0i	0.9	0.7	1.3	0.3	1.5	0.4	-1.0
6	ePZX	21 44 32.4	11.1i	1.1	0.6	1.7	0.3	1.1	0.6	-0.6

** Observation was interrupted
from 19h 03m to 21h 00m, 6th

Date	Phase	Time(JST)	P-S				Amplitude(mm) · Period(sec)			Initial motion(m)
			h	m	s	m	s	Z	N	
7	iPZX	00 05 01.0								
7	iPZX	00 12 28.4								
7	iPZ	00 52 34.7								
7	iPZ	02 52 44.2								

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Date	Phase	Time(JST)	P-S	Amplitude(mm) • Period(sec)			Initial motion(mm)			
				h	m	s	Z	N	E	
8	iPZX	15 46 12.5	9.2i	3.3	0.6	6.5	0.3	5.5	0.5	
8	iPZX	16 08 38.7	11.8i	3.2	0.5	5.2	0.4	4.1	0.5	
8	ePZX	17 01 44.4	8.3	1.4	0.6	3.2	0.3	2.7	0.4	
8	ePZX	18 39 01.9	12.1	0.7	0.3	1.2	0.3	0.8	0.3	
8	ePZX	18 40 21.4	11.7	2.2	0.4	3.0	0.2	2.0	0.5	
8	ePZX	19 10 58.6	11.4i	0.6	0.3	1.4	0.2	0.8	0.2	
8	iPZX	20 01 50.7	11.6i	0.8	0.4	1.1	0.3	1.0	0.4	
8	ePZX	21 01 23.7	13.3	0.8	0.5	1.3	0.3	1.0	0.5	
8	iPZX	21 05 25.9	17.0	4.2	0.8	6.2	0.8	8.8	0.9	
8	ePZX	21 12 15.8	14.7	0.6	0.5	0.8	0.8	2.5	0.7	
8	ePZX	21 33 18.3	29.6i	0.3	0.6	16.4	0.6	9.2	0.8	
8	iPZX	22 11 10.2	9.2i	1.8	0.5	2.7	0.4	2.1	1.0	
8	ePZX	23 07 50.9	10.8i	1.7	0.4	4.1	0.4	2.2	0.4	
8	ePZX	23 15 03.0	27.8	0.6	0.5	0.9	0.7	0.6	0.6	
9	ePZX	01 35 13.9	35.8	1.3	0.5	3.6	0.4	2.4	0.6	
9	ePZX	02 14 24.3	16.6	0.6	0.6	0.9	0.4	0.5	0.7	
9	ePZX	04 24 08.9	20.4i	1.0	0.5	0.8	0.3	0.5	0.6	
9	iPZX	05 20 30.7	20.4i	8.4	0.9	11.0	0.8	11.1	0.7	
9	iPZX	05 55 02.6	25	25	25	25	-10.8	-3.6		
9	iPZX	06 08 27.9	12.9i	1.0	0.4	2.2	0.3	1.3	0.5	
9	ePZX	06 25 24.4	7.1i	0.6	0.3	4.6	0.2	3.1	0.3	
9	iPZX	06 39 21.2	13.2i	1.6	0.6	2.2	0.3	1.5	0.4	
9	iPZX	07 10 11.2	iXLZK	10 30.7	1.0	0.4X2	2.6	0.3X2	1.4	0.5X2
9	ePZX	07 36 54.7	10.9i	4.2	0.7	4.9	0.4	5.7	0.5	
9	iPZX	07 53 36.4	15.5i	6.0	0.5	10.0	0.5	8.4	0.7	
9	iPZX	08 03 26.8	9.2	0.7	0.5	1.0	0.4	1.5	0.6	
9	ePZX	08 04 01.1	9.6	12.4	0.5	26.0	0.4	12.6	0.5	
9	ePZX	08 53 55.5	49.9	10.9	0.7	24.9	0.7	49.9	0.7	
9	ePZX	09 49 14.6	14.9	1.5	0.5	3.3	0.5	1.7	0.5	
9	ePZX	11 10 53.0	24.9	0.8	0.5	1.9	0.6	1.1	0.8	
9	ePZX	11 12 02.4	6.5	2.5	0.4	4.1	0.6	3.4	0.4	
9	ePZX	11 26 28.5	18.7	0.7	0.4	1.2	0.6	2.0	0.6	
9	ePZX	12 52 38.5	10.0	0.6	0.5	1.4	0.4	1.0	0.4	
9	eS ZX	13 23 48.9	6.9	0.5	0.4	1.6	0.2	1.0	0.3	
9	ePZX	13 40 43.5	29.8	0.8	0.7	1.5	0.7	1.4	1.0	
9	iPZX	13 48 41.6	iXLZK	48 58.1	5.7	0.6	8.9	0.6	4.8	0.6
9	ePZX	15 06 05.5	19.7	1.0	1.1	1.5	0.8	1.3	1.0	
9	iPZX	15 55 41.1	9.3	1.1	0.6	2.0	0.3	1.4	0.5	
9	ePZX	16 51 41.6	10.6	1.3	0.5	2.0	0.5	0.9	0.6	
9	ePZX	17 06 07.8	10.2i	1.7	0.4	1.6	0.4	3.4	0.3	
9	iPZX	19 09 24.5	13.0i	0.6	0.4	1.3	0.6	0.8	0.3	
9	ePZX	20 01 48.0	6.6i	1.6	0.2	2.4	0.2	2.4	0.2	
9	ePZX	21 37 51.7	12.1i	0.7	0.6	1.5	0.5	1.1	0.5	
9	iPZX	22 12 48.6	16.6i	1.6	0.4	2.7	0.4	2.0	0.7	
9	iPZX	22 39 52.3	8.0	0.2	0.5	1.9	0.2	1.5	0.4	
9	ePZX	22 45 48.8	8.8	0.9	0.4	1.6	0.3	0.8	0.5	
9	iPZX	22 48 40.4	6.6i	1.6	0.2	2.4	0.2	2.4	0.2	
9	ePZX	23 00 00.0	iXLZK	11.1	1.8	21.0	0.8	13.6	0.7	
10	iPZX	00 12 10.2	6.5i	1.4	0.6	3.1	0.2	2.7	0.3	
10	ePZX	00 20 18.5	28.6	0.9	0.5	1.3	0.6	1.2	0.6	
10	iPZX	01 15 10.2	11.5i	17.5	0.7	29.5	0.3	29.0	0.6	
10	ePZX	01 34 09.6	9.9	1.0	0.4	1.1	0.4	1.4	0.6	
10	iPZX	01 52 42.8	12.8i	0.7	0.4	1.2	0.3	0.8	0.5	
10	iPZX	02 59 28.5	12.3	70	0.9	60	1.2	68	1.0	
10	ePZX	03 04 20.8	16.8	3.4	0.7	2.9	0.9	2.3	0.9	
10	iPZX	03 11 49.8	12.4	0.8	0.5	1.2	0.4	0.7	0.5	
10	ePZX	04 05 08.6	11.2i	0.5	0.4	0.7	0.4	0.7	0.3	
10	ePZX	04 37 21.3	26.7	1.2	0.7	2.5	1.0	2.4	1.0	

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Date	Phase	Time(JST)	P-S	Amplitude(mm) • Period(sec)			Initial motion(mm)		
10	ePZX	05 08 26.5	8.7	1.8	0.6	2.4	0.6	2.9	0.6
10	iPZX	05 16 00.5	9.7	2.0	0.5	2.3	0.3	1.9	0.5
10	iPZX	05 40 12.8	10.2	0.8	0.2	1.1	0.4	1.3	0.4
10	iPZX	07 42 05.4	12.3	1.7	0.5	1.8	0.3	1.4	0.6
10	iPZX	07 47 34.3	7.8	0.6	0.4	0.8	0.5	0.6	0.3
10	ePZX	08 27 01.2	20.9	0.6	0.6	0.8	0.5	0.5	0.5
10	ePZX	08 36 54.1	7.1	1.3	0.4	4.0	0.4	2.4	0.3
10	ePZX	08 40 01.4	10.11	0.8	0.5	0.7	0.3	0.7	0.4
10	iPZX	08 44 25.4	8.81	1.5	0.6	4.0	0.3	3.2	0.3
10	ePZX	09 12 48.3	10.2	0.7	0.5	1.2	0.3	0.9	0.5
10	iPZX	10 14 10.8	9.9	0.7	0.4	1.5	0.3	1.0	0.4
10	ePZX	11 24 51.7	18.71	0.9	0.5	1.8	0.4	1.3	0.3
10	ePZX	11 39 16.7	28.0	11.5	1.0	11.0	1.0	11.0	0.8
10	iPZX	11 47 03.3	13.3	9.4	0.6	15.0	0.5	9.0	0.4
10	iPZX	11 50 40.4	1 056.6	1.8	0.7	2.3	0.7	1.4	1.3
10	ePZX	12 29 30.1	10.1	0.6	0.5	1.8	0.3	0.6	0.8
10	ePZX	13 32 07.8	56.8	11.4	0.7	22.0	0.6	20.0	0

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Date	Phase	Time(JST)	P-S			Amplitude(mm) • Period(sec)			Initial motion(mm)	
			h	m	s	Z	N	E		
11	ePZK	19 37 49.1	25.0	3.8	0.9	5.4	0.8	4.5	0.8	-2.4
11	iPZK	21 36 54.3	7.0i	2.1	0.6	5.8	0.4	4.1	0.2	
11	ePZK	21 41 22.2	16.2	1.9	0.5	3.1	0.5	1.8	0.5	
11	ePZK	22 16 59.3	9.2	0.5	0.5	0.7	0.5	0.6	0.5	
11	iPZK	22 53 52.6	11.2i	2.1	0.6	7.3	0.5	3.4	0.3	-1.4
11	iPZK	23 42 09.0	13.1i	2.1	0.6	3.3	0.5	2.3	0.3	-1.4
12	iPZK	00 17 22.3	9.1i	1.2	0.5	1.8	0.3	1.4	0.5	+0.6
12	iPZK	01 51 26.8	10.7	0.5	0.4	0.8	0.3	0.5	0.5	+2.0
12	iPZK	01 58 51.7	12.0i	7.4	0.6	8.7	0.5	6.3	0.5	+2.8
12	iPZK	02 01 17.5	8.9i	0.7	0.6	1.3	0.6	0.7	0.6	+2.2
12	ePZK	02 34 22.7	12.8	0.6	0.4	0.7	0.4	0.5	0.5	
12	iPZK	02 47 33.0	10.5	0.9	0.4	1.6	0.4	1.1	0.4	-0.6
12	ePZK	03 16 19.1	6.6	1.1	0.4	1.9	0.3	1.7	0.3	
12	iPZK	03 43 37.2	59.4	7.5	1.0	13.7	0.9	10.3	0.8	
12	ePZK	03 49 39.6	57.5	1.4	0.7	3.8	0.9	2.9	0.7	
12	iPZK	04 02 17.4	11.2i	0.7	0.5	0.7	0.3	0.6	0.6	+0.8
12	iPZK	06 03 00.0		8.1	1.0	12.4	0.6	8.7	0.9	+4.2
12	eY2	07 09.3		0.5	0.5	1.0	0.4	0.6	0.6	
12	ePZK	06 55 37.7	29.8	30.0	0.7	56.5	0.9	35.5	0.7	+14.2
12	iPZK	07 26 26.8	12.4i	30.0	0.7	20.0	1.0	20.0	1.0	
12	ePZK	07 28 35.1	12.3	4.1	0.5	7.4	0.4	4.8	0.6	
12	ePZK	07 31 47.1	1 09.6	14.4	1.0	20.0	1.0	20.0	1.0	
12	iPZK	09 14 25.0	11.7	1.4	0.6	4.1	0.4	2.2	0.7	+2.6
12	ePZK	11 34 51.4	11.2	0.7	0.5	1.4	0.3	1.0	0.6	
12	iPZK	11 59 47.4	8.2	0.7	0.4	2.0	0.3	0.9	0.3	-0.6
12	ePZK	12 28 04.4	8.2i	0.8	0.5	1.6	0.7	1.1	0.7	
12	iPZK	14 73 01.6	13.0	0.6	0.4	1.4	0.5	1.0	0.6	+1.4
12	iPZK	16 02 22.8	9.2	1.1	0.6	2.2	0.6	1.7	0.5	-0.8
12	ePZK	16 03 31.6	10.2	3.6	0.7	5.9	0.7	4.0	0.6	
12	iPZK	17 11 02.0	10.3	2.4	0.6	4.9	0.2	2.5	0.5	+1.6
12	iPZK	17 29 45.9	8.7	1.6	0.5	2.0	0.5	1.6	0.5	+1.0
12	ePZK	18 00 34.8	7.8	0.6	0.5	0.9	0.6	0.5	0.5	
12	iPZK	18 41 14.3	7.7i	2.1	0.3	5.8	0.5	2.8	0.4	SO
12	ePZK	19 22 56.1	30.0	0.8	0.5	1.2	0.6	0.9	0.7	+1.6
12	iPZK	20 09 55.8	8.6	2.0	0.6	2.1	0.5			
12	ePZK	20 14 33.9	21.3	0.6	0.4	1.1	0.4			
12	ePZK	21 01 41.5	17.4i	0.6	0.6	1.1	0.5			-1.8
12	iPZK	22 04 20.3	8.2i	1.2	0.5	2.0	0.4			
12	ePZK	22 22 71.4	6.8	0.6	0.3	1.0	0.3			
12	iPZK	22 42 22.7		SO	SO	2.8	0.8X	2.6	1.1X	+4.0
12	eXZ	23 04		3.0	0.8X	2.8	0.8X	6.7	0.8X	
12	eXZ	23 06		4.7	0.8X	4.3	0.8X			
12	eXZ	23 11		4.5	0.8X	5.8	0.8X	4.8	1.0X	
12	ePZ	23 18 15	>5	>5	>5	>5	>5			
12	eY2	23 28 46		1.8	0.5X	2.9	1.2X	1.8	0.6X	
12	ePZ	23 28 09		4.9	0.7X	9.2	0.6X	6.0	0.7X	
12	eSZ	23 30 36		5.0	0.8	7.9	0.9	4.5	0.7	
12	eXYZ	23 36		4.1	0.6X	7.2	0.9X	5.1	1.2X	
12	ePZ	23 38 57.6		>15	X	>27	X	>18	X	
12	ePZ	23 44 44		10.6	0.9X	14.0	1.0X	13.0	0.8X	
12	eZZY	23 48 50		6.7	1.1X	10.0	1.5X	9.3	0.8X	
12	ePZY	23 52 25		7.0	1.0X	9.0	1.1X	9.0	0.6X	
12	ePZ	23 56 50		1.8	0.5X	2.9	0.7X	2.7	0.6X	
12	ePZ	23 59 31		1.0	0.5X	1.4	0.6X	0.9	0.5X	
12	eXZ	00 07		1.0	0.5X	1.4	0.6X	0.9	0.5X	
12	ePZK	00 09 34		>11						
12	eY2	00 14 05		2.8	1.0X	4.7	X	3.8	1.0X	
12	eXH	00 18 17		0.5	0.5X	1.4	0.5X	0.5	0.4X	
12	ePZK	00 20 36		0.5	0.6X	1.0	0.5X	0.8	0.6X	
	eYH	21 03								

Date	Phase	Time(JST)	P-S			Amplitude(mm) • Period(sec)			Initial motion(mm)
			h	m	s	Z	N	E	
13	ePZK	00 23 51							
13	eXIZ	00 24 12.0							
13	ePZ	00 24 35							
13	ePZ	00 28 19.0							
13	eYN	00 28 47.5							
13	ePZ	00 32 10.1							
13	eXN	00 32 54.2							
13	eXZ	00 37 02.7							
13	ePZ	00 40 03.5							
13	ePZK	00 44 15.3	10.2						
13	eZZ	00 46 17							
13	ePZK	00 49 44.5							
13	ePZK	01 05 09.2							
13	eYN	01 05 41.3							
13	ePZK	01 11 55.0	31.5						
13	ePZK	01 24 05							

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Date	Phase	Time(JST)			P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)
		h	m	s	m	s	Z	N	E		
13	ePZX	05	21	05.7							
	eXN		21	20.7							
	eXZ		21	41.5			2.9 0.9X2	5.2 1.6X2	4.3 0.9X2		
13	ePZX	05	27	04.6	31.6		0.7 0.5	1.3 1.0	1.3 0.5		
13	ePZX	05	31	53			0.5 0.5	1.0 0.8	1.0 0.5		
	eZN		32	08.5							
13	ePZX	05	34	48.1			0.9 0.6X	1.4 0.5X	1.1 0.7X		
	eXH		35	33.5							
13	ePZY	05	56	11.3	34.0		1.3 0.5	1.5 0.5	1.2 0.8		
13	ePZ	06	02	58.2	31.8		0.5 0.4	1.1 0.2	0.7 0.5		
13	ePZY	06	14	42.5	18.9		0.5 0.5	0.7 1.2	0.7 0.7		
13	ePZX	06	17	20.6			2.7 0.5X	3.8 0.6X	3.3 0.5X		
	eZ		18	05							
13	ePZX	06	40	40.7	33.8		1.1 0.5	1.8 0.6	1.3 0.7		
13	ePZX	06	54	13.0			1.8 0.6	2.5 0.6	2.0 0.8		
	eXZ		54	36.5							
					SO		SO	SO	+5.0		
13	ePZX	06	58	25.2							
13	ePZX	07	03	00.2							
	eZN		09	48.0			6.0 1.2X	5.7 1.2X	5.9 1.2X		
13	ePZX	07	16	13.9	30.3		3.1 1.2	3.8 0.9	3.7 0.5		
13	ePZX	07	19	08			4.0 0.5X	4.2 0.5X	3.9 0.6X		
13	ePZX	07	22	13.4							
	eXH		22	26.5			1.9 0.6X2	3.5 0.5X2	2.2 1.0X2		
	eXZ		22	44.5							
13	ePZ	07	34	12.7			1.5 0.5X	1.8 0.7X	1.5 0.7X		
	eZZ		35	07.5							
13	ePZX	07	50	22.4	11.6		3.9 1.1	48 1.0	40 0.5	+2.0	
13	ePZX	07	52	46			3.5 0.5X	4.3 0.6X	4.4 1.0X		
	eXZ		53	03.5			0.7 0.5	1.6 0.7	0.8 0.4		
13	ePZX	07	56	23.0	31.4						
13	ePZX	08	21	28.1			2.1 0.6X	2.7 0.8X	3.0 1.0X		
	eXZ		21	57							
13	ePZX	08	44	31.7			0.5 0.5X	1.2 0.6X	0.9 0.6X		
	eXN		45	23.2							
13	ePZX	08	47	28.5	11.7		0.8 0.6	1.5 0.3	0.9 0.3		
13	ePZX	09	02	01.6	31.4		0.9 0.5	1.4 0.5	1.2 0.6		
13	ipZ	09	05	43.6			SO	SO	+2.2		
	iZN		06	05.2							
13	ePZX	09	43	00.5	37.5		38.0 0.7	36.2 0.7	35.1 0.9		
13	ePZX	09	54	58.5	35.8		1.8 0.6	2.5 0.9	1.8 0.8		
13	ePZX	10	04	34.3	29.4		0.5 0.5	1.1 0.6	1.0 0.5		
13	ePZX	10	10	25.6			SO	SO	+2.2		
	eXIZ		10	39.2							
	eX2Z		10	59.0			1.3 0.6X2	2.4 1.0X2	1.7 0.4X2		
13	ePZX	10	43	37.5	31.0		3.6 0.7	6.5 1.0	4.2 1.0		
13	ePZX	11	01	09.2	10.31		0.7 0.4	1.4 0.5	1.2 0.5	+0.9	
13	ePZX	11	06	25.2			20	24	36	+2.0	
	eZN		07	10.0							
13	ePZX	11	20	20			0.8 0.5X	1.2 0.5X	0.8 0.5X		
	eXZ		20	53.5							
13	ePZX	11	34	00.5	11.21		1.7 0.5	2.5 0.6	2.8 0.5		
13	ePZX	12	08	55			0.6 0.6X	0.8 0.5X	0.7 0.5X		
	eXH		09	21							
13	ePZX	12	17	22.0			0.5 0.5X	0.8 0.5X	0.7 0.6X		
	eZN		12	18	13						
13	ePZX	12	30	44.8	33.9		0.8 0.8	1.5 0.5	1.2 0.5		
	ePZ		12	32	52.2						
	eXZ		12	40.5			1.1 1.5X2	0.7 0.7X2	5.8 1.6X2	+2.1	
	eXZ		12	45.0							
13	ePZX	12	35	42.1	15.5		1.2 0.4	2.6 0.6	1.2 0.6	-1.7	
13	ePZX	12	41	42.5	12.4		1.0 1.0	11.1 0.5	7.0 0.7	-0.1	
13	ePZX	12	46	35.1	12.9		7.6 0.9	10.3 0.6	9.0 0.8	+0.1	
13	ePZX	12	54	02.0	54.2		2.3 0.6	4.4 0.6	3.7 0.5		
	iXZ		54	22.7	14.71						

Date	Phase	Time(JST)			P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)
		h	m	s	m	s	Z	N	E		
13	ipZX	13	09	03.0				1.0 0.2	2.3 0.2	2.4 0.2	-1.2
	iZZ	09	10.9				08.7	2.4 0.6	2.0 0.6	-2.2	
13	ipZX	13	21	23.6			11.2				
	ePZX	13	21	06.2							
	eZN	21	22.0								
13	ePZX	13	37	16.8				2.1 0.7X	2.8 1.0X	2.6 1.1X	
	eZN	37	42								
13	ipZX	14	07	53.3				1.2 0.5X	1.6 0.5X	1.4 0.6X	
	iPZX	14	75	16.6				1.6 0.5	3.0 0.5	4.0 0.3	-6.4
13	ipZX	14	87	54.7				0.6 0.6	1.2 1.0	0.8 0.6	-3.0
	ePZX	14	40	02.5							
	eZN	40	50								
13	ipZX	14	45	41.4							

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Initial motion(mm)		
				h	m	s	m	s	Z	N	E	
14	ePZX	06 11 10.0	34.2	83.9	1.9	90.1	1.8	56.0	1.9			
14	ePZX	06 25 14.5	43.5	1.3	0.6	2.1	0.6	1.1	0.7			
14	ePZX	06 29 36.3		0.5	0.6X	0.5	0.6X	0.4	0.6X			
14	ePZX	08 19 01.0	34.4	0.5	0.5	0.6	0.7	0.5	0.5			
14	iPZX	08 32 47.1	11.1	1.9	0.5	2.2	0.3	2.0	0.5	0.5		
14	ePZX	09 38 49.6	35.0	4.2	0.6	6.7	0.7	4.8	1.0			
14	ePZX	09 38 49.6	35.0	1.2	0.5	1.6	0.7	1.0	0.7			
14	ePZX	09 39 19.1	30.0	22.1	0.5	0.6	0.5	0.5	0.4	0.6		
14	ePZX	09 39 15.3	44.8	1.1	0.5	1.6	0.6	1.2	0.9			
14	ePZX	09 40 16.3		8.9	1.0X	11.1	0.8X	10.0	0.8X			
14	ePZX	09 46 47.2										
14	ePZX	09 58 24.1										
14	ePZX	10 09 29.2		3.1	0.6X	4.9	0.6X	2.9	0.5X			
14	iPZX	10 17 50.5	1 28.4	2.6	0.7	6.9	0.6	4.9	0.8	+1.0		
14	ePZX	10 37 20.6										
14	ePM	11 27 24.7		5.3	0.5X	7.2	0.6X	6.8	0.5X			
14	iPZX	11 01 13.9	12.0	1.5	0.3	4.9	0.2	1.9	0.6	-2.1		
14	iPZX	11 24 45.8	21.7	8.0	1.8	6.8	1.6	5.2	1.2	+2.1		
14	ePZX	11 34 31.1	11.2	0.9	0.3	1.1	0.4	0.6	0.4			
14	iPZX	11 39 14.1										
14	ePM	12 24 24.9		7.2	0.4X	12.1	0.6X	10.1	0.6X	-0.6		
14	iPZX	12 55 23.3	02.5i	1.0	0.3	1.2	0.3	1.6	0.3	+2.0		
14	ePZX	12 00 46.0	36.5	0.5	0.6	0.7	0.6	0.5	1.1			
14	ePZX	12 18 59.9	38.7	30.1	0.9	33.1	0.6	40.0	1.1			
14	iPZX	12 27 18.9	14.2	1.1	0.6	1.2	0.3	1.0	0.6	-1.1		
14	ePZX	12 37 15.7		0.5	0.6X	0.9	0.3X	0.4	0.5X			
14	ePZX	13 10 40.6		1.1	0.6X	1.2	0.5X	1.1	0.7X			
14	ePZX	13 35 52.7		2.1	0.7X	2.0	0.6X	1.9	0.6X			
14	ePZX	13 57 10.2		0.9	0.5X	0.8	0.6X	1.0	0.6X			
14	iPZX	14 53 03.4	09.4	1.8	0.6	4.9	0.4	1.9	0.6	-0.3		
14	ePZX	15 05 46.6		12.1	0.8X	17.2	0.5X	9.4	0.8X	-2.3		
14	iPZX	15 14 06.1	13.0i	1.9	0.7	5.0	0.7	2.5	0.6			
14	ePZX	15 31 29.4	11.9	3.1	0.5	6.0	0.4	4.0	0.5			
14	ePZX	16 05 12.5										
14	ePM	16 05 31.5		1.0	0.6X	2.0	0.6X	1.6	1.0X			
14	ePZX	16 53 11.2		1.0	0.8X	1.2	0.9X	0.9	0.4X			
14	iPZX	17 06 36.4	07.1i	6.9	0.5	6.3	0.3	5.0	0.4	-10.3		
14	ePZX	17 42 33.6		5.1	1.2X	5.3	0.8X	6.6	1.2X			
14	ePZX	18 24 51.8	34.1	0.8	0.7	0.9	0.6	0.9	0.8			
14	iPZX	19 43 56.6	09.7	1.2	0.4	3.0	0.4	1.3	0.6			
14	ePZX	19 57 35.2	14.9i	0.6	0.3	1.6	0.3	0.7	0.6			
14	ePZX	20 07 45.9	10.2	0.5	0.3	0.6	0.3	0.6	0.3			
14	ePZX	20 11 25.3	03.9i	0.6	0.6	0.6	0.4	0.5	0.3			
14	ePZX	20 12 55.3	02.7i	0.5	0.3	0.9	0.4	0.6	0.3			
14	iPZX	20 53 22.9	40.4	21.4	2.0	> 33	1.9	35.0	1.9	+2.9		
14	iPZX	21 06 16.8	09.2i	4.8	0.6	8.1	0.3	5.5	0.6	-2.0		
14	ePZX	21 13 49.2	46.9	7.5	0.6	2.1	0.6	2.3	0.5			
14	ePZX	21 19 22.2	1 29.7	6.4	0.8	7.3	0.8	6.9	1.1			
14	ePZX	21 46 35.2		0.6	0.4X	0.9	0.5X	0.7	0.6X			
14	ePZX	21 49 52.8		1.2	0.7X	1.5	1.0X	1.7	0.7X			
14	ePZX	22 15 46.7	33.1	2.0	0.7	3.9	1.0	2.3	0.8			
14	ePZX	22 27 01.6		0.6	0.5X	0.5	0.6X	0.4	0.5X			
14	ePZX	23 02 09.3	18.1	1.9	0.5	2.2	0.5	1.6	0.5			
15	ePZX	00 11 42.3										
15	ePZ	11 44.1	1 02.7	0.6	0.5P	0.5	0.5S	0.5	0.3S			
15	ePZX	01 16 09.8	25.5	0.9	0.6	0.9	0.6	0.7	0.8			
15	iPZX	02 11 50.3	10.5i	1.0	0.6	1.1	0.5	0.7	0.5	-1.5		
15	ePZX	02 18 39.2	8.5	0.5	0.4S	0.6	0.5P	0.4	0.2S			
15	ePZX	03 09 17.9	18.5	1.6	0.5	3.5	0.5	1.9	0.6			
15	ePZX	03 10 57.4	12.7i	0.7	0.5	1.5	0.4	0.4	0.4			
15	ePZX	03 22 40.8		2.0	0.7X	3.7	0.8X	2.4	1.0X			
15	ePZX	03 41 15.2		2.3	0.5X	4.7	0.3X	2.1	0.5Y			
15	iPZX	04 00 24.2	13.3	0.9	0.6	1.2	0.6	0.9	0.5	+1.0		
15	ePZX	04 20 15.2		0.9	0.8X	2.0	1.0X	1.5	1.3Y			

Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)	Initial motion(mm)			
		h	m	s	Z	N	E	Initial motion(mm)
15	ePZX	05 27 52.5		2.4 0.8X	1.7 0.6X	1.0 0.8X		.
15	ePZX	05 53 28.4		1.2 0.6X	1.6 0.7X	1.0 0.8X		+1.0
15	iPZX							

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Initial motion(mm)	
				h	m	s	m	s	N	E	
16	iPZX	18 39 11.9	11.3	1.0	0.4		3.6	0.3	0.6	0.6	-1.1
16	iPZ	20 38 13.9	11.2i	SO			SO		SO		-13.4
16	ePZX	20 45 43.8	10.4	2.1	0.8		3.1	0.7	2.6	0.7	
17	ePZX	21 05 18.2	13.1	5.8	0.6		7.0	0.7	6.5	0.9	
17	ePZX	21 23 08.2	13.0	0.5	0.6		1.1	0.6	0.8	0.6	
17	iPZX	22 53 12.6	11.7i	0.7	0.4		1.5	0.2	0.7	0.2	-1.2
17	ePZX	00 41 38.9		2.2	0.8X		3.3	0.8X	2.3	0.7X	
17	ePZX	01 00 19.7		1.6	0.9X		1.9	0.8X	1.6	0.7X	
17	iPZX	01 42 48.4	12.4i	0.8	0.3		1.5	0.4	1.3	0.3	-1.8
17	iPZA	01 57 12.0		19.8	0.9X		20.3	0.9X	21.1	1.0X	+1.6
17	eZZ	57 32.4		2.4	0.4		3.8	0.4	2.5	0.3	+2.2
17	iPZX	02 00 31.3	9.7	1.4	0.4		2.2	0.4	1.2	0.6	+2.0
17	iPZX	02 17 33.8	10.9i	1.9	0.3		7.6	0.3	3.4	0.3	+0.8
17	iPZX	02 57 15.7	5.9i								
17	iPZX	03 52 12.2		2.4	0.7X		2.9	0.6X	2.1	0.7X	-1.0
17	eZZ	52 15.3		4.2	0.6		5.2	0.6	3.9	1.0	+0.8
17	iPZX	04 03 03.4	10.5	4.7	1.3X		5.9	0.8X	3.8	1.1X	
17	ePZX	05 39 29.8		1.0	0.4		1.8	0.5	1.2	0.5	
17	ePZX	06 35 05.2	17.7i	2.2	0.3		3.9	0.3	3.6	0.3	-1.2
17	iPZX	07 11 17.2	8.6i	1.3	1.2		1.3	1.1	0.8	0.6	-2.0
17	iPZX	08 13 35.7	15.1	0.8	1.2		0.6	0.5	1.0	0.4	+0.6
17	iPZX	08 49 51.4	10.9i	0.6	0.5		0.5	0.8	0.5	0.5	+0.6
17	iPZX	09 54 50.2	10.4i	0.6	0.5		1.8	0.4	0.5	0.5	+0.6
17	iPZX	09 55 28.3	11.9i	3.1	0.6		5.0	0.5	4.0	0.5	-1.8
17	ePZX	10 46 25.2		0.5	0.6X		1.0	0.7X	0.7	0.6X	
17	ePZX	11 07 42.4	9.1	0.8	0.3		1.3	0.3	1.2	0.3	
17	iPZX	13 20 48.3	10.4	4.5	0.7		14.8	0.3	10.1	0.3	-8.0
17	iPZX	13 33 42.1	9.5i	2.6	0.6		5.8	0.3	4.1	0.3	+3.2
17	iPZX	13 50 55.2	9.1i	4.1	0.7		5.3	0.3	4.3	0.6	-1.4
17	ePZX	15 13 45.8	11.4i	1.4	0.3		1.6	0.3	1.4	0.3	
17	iPZX	15 14 45.2		0.6	0.4X		1.2	0.6X	0.7	0.7X	-2.4
17	eZN	14 58.2		0.8	0.3		2.2	0.2	1.4	0.3	-0.6
17	iPZX	18 52 27.1	10.9	2.0	0.5		2.6	0.4	2.5	0.5	+1.6
17	iPZX	19 47 40.2	2.0	1.7	0.5		1.0	0.6	0.5	0.7	
17	ePZX	19 55 49.9	23.2	0.7	0.5		0.5	0.5X	0.4	0.5X	
17	ePZX	20 21 11.8		0.5	0.5X		0.5	0.6X	0.4	0.5X	
17	iPZ	20 53 20.7		SO	X		SO	X	SO	X	+13.2
17	iPZX	22 52 13.2	15.3i	4.4	0.6		5.0	0.6	4.3	0.6	-1.0
17	ePZX	23 03 43.7		0.5	0.6X		0.6	0.6X	0.8	0.5X	
17	ePZX	23 05 50.5	15.3	0.9	0.6		1.0	0.7	0.7	0.6	+1.8
17	iPZX	23 20 32.5	15.3	7.3	0.8		7.9	0.7	6.3	1.2	+1.8
18	iPZX	01 42 54.6	13.2	19.1	0.6		26.5	0.3	14.8	0.6	-1.2
18	ePZX	01 45 35.0		8.8	0.9X		8.6	1.2X	11.1	0.9X	
18	eZN	45 43.9		SO	X		SO	X	SO	X	+10.8
18	iPZX	01 56 50.0		0.8	0.4X		1.0	0.4X	0.6	0.5X	
18	ePZX	02 08 07.5		0.5	0.5		0.6	0.5	0.5	0.4	
18	iPZX	02 27 02.6	23.2	0.5	0.5		0.6	0.5	0.5	0.4	
18	iPZX	03 51 14.9		3.6	0.7X		7.6	0.7X	3.2	0.7X	-2.1
18	ePZX	03 58 20.9		19.8	1.6X		29.1	1.2X	24.8	1.6X	
18	ePZX	04 15 14.7		0.7	0.7X		0.9	0.3X	0.7	0.3X	
18	ePZX	04 21 44.6		5.1	0.9X		7.3	0.8X	3.8	1.3X	
18	eZX	22 09.8		2.2	0.5		4.9	0.5	2.2	0.3	-6.8
18	iPZX	04 50 34.7	13.1i								
18	ePZX	04 52 25.3	20.1	1.4	0.3		2.8	0.3	2.7	0.4	+15.2
18	iPZX	05 12 02.3	11.7i	7.9	0.5		17.6	0.6	10.1	0.7	
18	ePZA	05 48 26.6	13.4	0.5	0.3		1.0	0.3	0.7	0.3	
18	iPZX	05 51 01.3	10.8i	1.2	0.5		1.9	0.2	2.4	0.2	-1.0
18	iPZX	06 33 02.0	9.3i	1.1	0.4		1.9	0.4	1.7	0.4	-0.6
18	ePZX	06 40 31.2	11.3	0.5	0.3		0.9	0.2	0.6	0.3	
18	ePZX	06 48 54.8	9.3i	0.7	0.6		1.8	0.4	1.3	0.5	
18	iPZX	07 16 15.3	19.3	1.0	0.9		3.9	0.8	2.2	0.9	-0.4
18	ePZX	07 18 05.3		2.3	0.8		3.5	0.6	2.3	0.6	
18	ePZX	07 35 45.8	42.9	0.2	0.6		0.8	0.6	0.6	0.8	

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Initial motion(mm)	
				h	m	s	m	s	N	E	
18	iPZX	07 38 17.5	14.6i	1.5	0.5		2.4	0.4	1.3	0.4	-1.0
18	ePZX	07 41 40.4									
18	eZN	42 31.5									
18	iPZX	08 01 05.1	9.4i	4.3	0.3		12.8	0.2</			

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Date	Phase	Time(JST)	P-S	Amplitude(mm) • Period(sec)						Initial motion(mm)	
				h	m	s	Z	N	E		
19	ePZK	21 57 24.4		12.3	0.5	0.5	1.1	0.6	0.4	0.5	+0.6
19	iPZX	22 56 06.7		9.2i	0.5	0.7	0.9	0.4	0.7	0.3	-
19	ePZK	23 01 58.7			0.5	0.6X	0.6	0.6X	0.2	0.5Y	-
19	ePZK	23 10 16.1		29.9	0.6	0.7	1.1	0.7	1.0	0.7	-
20	ePZK	01 06 14.4		11.2	0.5	0.4	0.5	0.3	0.4	0.7	-
20	iPZX	01 27 09.2		7.4i	0.6	0.4	1.6	0.3	0.9	0.5	-0.4
20	iPZX	02 32 53.9		12.0	0.5	0.5	0.6	0.5	0.7	0.7	-0.4
20	iPZX	03 03 51.7		23.7i	27.1	0.9	31.8	0.9	42.8	0.9	+1.2
20	iPZX	03 34 23.4		25.8i	10.5	0.9	14.2	1.2	14.5	1.3	+1.8
20	ePZK	04 13 21.5									-
20	eZK	14 04 9			7.5	0.9	12.7	0.9	6.0	0.8	-
20	ePZK	05 22 30.2		16.6	0.6	0.4	1.4	0.5	0.7	0.4	-
20	ePZK	06 44 29.3		14.0	0.7	0.5	1.5	0.5	1.0	0.7	-
20	ePZK	07 57 22.3		29.6i	0.6	0.4	1.0	0.5	0.8	0.4	-
20	iPZX	09 12 23.4		9.6i	1.1	0.6	2.0	0.3	1.8	0.3	+2.2
20	iPZX	09 50 04.8		12.0	2.3	0.5	3.5	0.5	2.3	0.5	-1.4
20	iPZX	11 26 07.8			0.5	0.4X	0.6	0.5X	0.6	0.2X	-
20	ePZK	11 54 58.2			0.5	0.7X	0.8	0.7X	0.2	0.7X	-
20	iPZX	15 45 22.7		11.4i	1.1	0.4	2.1	0.4	1.2	0.6	+0.6
20	ePZK	16 05 53.1		11.6i	0.5	0.3	1.3	0.2	0.6	0.5	-
20	ePZK	16 31 14.7		13.1i	1.3	0.4	2.5	0.4	2.1	0.4	-0.4
20	iPZX	16 31 14.7		13.1i	1.3	0.4	2.5	0.4	2.1	0.4	+2.0
20	ePZK	17 01 37.2		19.2	6.8	0.6	6.3	0.7	5.4	0.4	+2.0
20	ePZK	17 15 42.6									-
20	eZK	15 13 7			28.7	0.5X	24.9	0.5X	16.0	0.6X	-
20	ePZK	17 18 13.5		18.7	3.9	0.6	5.7	0.5	3.9	0.6	-
20	ePZK	19 30 34.7		30.9i	0.5	0.3	1.4	0.2	0.7	0.2	-
20	iPZX	20 25 42.0		13.3i	7.8	0.4	9.0	0.4	5.2	0.4	+1.4
20	ePZK	21 27 22.2		8.4i	2.9	0.5	2.6	0.6	2.6	0.5	-
20	ePZK	22 16 40.1		11.6i	4.3	0.5	6.3	0.4	4.3	0.6	-
20	ePZK	22 41 58.9		27.5	0.8	0.5	2.0	0.4	0.2	0.3	-
20	ePZK	23 04 37.3		10.0i	1.4	0.4	2.5	0.3	1.4	0.3	-
20	iPZX	23 11 56.7			0.5	0.6X	0.7	0.8X	0.8	1.0X	-
21	iPZX	00 10 53.0		10.4i	8.6	0.5	7.0	0.4	4.8	0.4	-2.5
21	iPZX	02 09 38.7		10.3i	1.5	0.5	2.4	0.2	1.7	0.2	+1.6
21	ePZK	03 03 25.1		10.2	3.5	0.7	5.1	0.7	7.6	1.0	-
21	iPZX	03 12 13.3		11.7i			50		50		+6.2
21	iPZX	03 20 39.6		12.2i	0.8	0.4	3.0	0.3	1.0	0.4	+0.4
21	iPZX	04 07 01.6		11.6	20.1	0.8	23.2	1.3	20.5	1.2	+1.2
21	iPZX	04 47 00.1		14.7	2.5	0.3	6.0	0.3	1.9	0.5	+2.4
21	ePZK	05 03 45.6		32.7	10.1	0.5	15.8	0.5	8.0	0.7	-
21	ePZK	06 32 27.3			1.2	0.6X	1.6	0.5X	1.7	0.3X	-
21	ePZK	07 21 12.6			0.9	0.5X	1.8	0.7X	0.9	0.9X	-
21	iPZX	07 47 09.8		21.3	2.7	1.0	3.8	1.1	2.6	1.0	+1.4
21	ePZK	10 03 31.1		15.7	1.2	0.5	1.7	0.3	1.0	0.6	-
21	iPZX	10 08 33.9		10.4i	0.5	0.2	1.1	0.2	1.1	0.4	-0.4
21	iPZX	12 18 13.2		9.9i	5.5	0.7	5.3	0.7	2.5	0.5	+0.4
21	iPZX	12 23 07.7		12.1	3.0	0.7	4.2	0.7	4.6	0.6	-1.9
21	ePZK	12 51 22.3		14.2i	0.5	0.2	0.8	0.2	0.4	0.2	-
21	iPZX	14 27 29.7		10.4i	10.5	0.3	18.8	0.4	14.3	0.6	-3.0
21	iPZX	15 02 46.3		9.5i	0.5	0.4	1.0	0.3	0.4	0.3	+1.0
21	iPZX	15 27 56.9		10.6	0.7	0.4	1.2	0.5	0.3	0.5	-1.2
21	ePZK	15 29 10.9		2.7	0.5	0.6	0.6	0.3	0.2	0.5	-
21	ePZK	16 19 04.8		12.6	4.3	0.6	4.5	0.6	3.4	0.5	+0.4
21	iPZX	17 50 57.3		9.0i	0.5	0.2	1.7	0.2	0.7	0.3	-1.4
21	ePZK	20 54 09.6		20.5i	1.4	0.4	3.3	0.4	2.2	0.4	+0.2
21	iPZX	21 01 31.8		8.6	0.5	0.3	1.0	0.2	1.0	0.2	-
21	ePZK	21 29 28.0		27.7	0.7	0.5	0.9	0.7	0.6	0.6	+2.6
21	iPZX	22 49 44.8		9.6i	8.0	0.8	13.3	0.6	9.2	0.6	-
21	ePZK	00 51 26.8		10.9i	0.7	0.3	1.4	0.2	1.2	0.2	-1.0
22	iPZX	01 15 27.6		10.3	1.2	0.3	3.2	0.2	1.3	0.5	-
22	ePZK	01 23 27.3			3.2	0.7X	4.0	0.6X	4.4	0.6X	-3.4
22	iPZX	03 21 06.3		9.5	2.4	0.5	4.1	0.4	2.2	0.4	-
22	ePZK	06 05 51.7		11.2i	1.5	0.5	3.1	0.4	1.3	0.5	-
22	ePZK	08 27 48.3			0.5	0.5X	1.0	0.7X	1.0	0.9X	+1.2
22	iPZX	08 52 01.1		13.5	0.6	0.3	0.9	0.2	0.5	0.3	-
22	ePZK	10 06 50.5		11.4	0.5	0.5	0.4	0.5	0.3	0.5	-

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Date	Phase	Time(JST)	P-S	Amplitude(mm) • Period(sec)						Initial motion(mm)
h	m	s	Z	SO	N	SO	E			

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Date	Phase	Time(JST)	Amplitude(mm) · Period(sec)						Initial motion(mm)
			P-S	h m s	m s	Z	N	E	
29	iPZX	00 15 15.9	9.7	0.6 0.5	1.0 0.2	0.5 0.5	-2.6		
29	iPZX	01 26 32.1	15.9	3.9 0.8	6.2 0.7	4.5 0.9	-2.2		
29	iPZX	02 40 17.7		0.7 0.5X	1.0 0.8X	0.6 0.8X	+0.3		
29	iPZX	02 43 15.9	11.0	1.3 0.5	2.5 0.5	1.5 0.8	-1.2		
29	iPZX	03 16 50.2	11.4i	SO	SO	SO	-7.0		
29	ePZX	04 41 36.5	16.3	1.3 0.5	1.6 0.4	0.8 0.7			
29	ePZX	04 49 58.1	11.2	0.5 0.4	1.0 0.2	0.4 0.3			
29	ePZX	06 25 35.7	16.6i	18.7 0.5	13.8 0.6	12.4 0.7			
29	ePZX	06 42 38.2	10.3	0.7 0.5	1.4 0.3	1.2 0.5			
29	ePZX	08 08 27.2	9.4i	1.5 0.4	2.2 0.4	1.5 0.4	+0.6		
29	iPZX	08 09 23.0	10.6	0.6 0.5	0.6 0.5	0.6 0.5	+1.2		
29	iPZX	08 44 27.0	10.8i	0.7 0.5	1.7 0.3	0.6 0.5	+1.8		
29	iPZX	09 06 25.3	13.8i	12.7 0.5	19.6 0.5	10.9 0.5	+2.2		
29	ePZX	10 17 50.9		6.3 1.5X	10.5 0.9X	7.1 1.0X			
29	iPZX	11 05 55.9	11.3	2.0 0.5	4.4 0.3	1.5 0.5	-1.0		
29	iPZX	11 26 04.3		1.9 1.2X	2.5 0.8X	1.7 1.1X			
29	ePZX	12 07 32.6	15.5i	0.8 0.4	2.1 0.2	0.9 0.3	+0.6		
29	ePZX	13 20 57.6		14.4 1.0X	21.3 0.9X	18.7 1.0X			
29	ePZX	14 29 00.0	9.5	1.3 0.4	1.5 0.2	1.3 0.3			
29	ePZX	14 32 11.7		0.5 0.7X	0.7 0.6X	0.4 0.7X			
29	ePZX	14 41 01.2	11.5i	0.7 0.5	1.4 0.5	0.8 0.3			
29	iPZX	15 18 11.4	16.9	2.5 0.8	3.4 0.4	3.1 0.7	-1.2		
29	iPZX	16 40 56.1	13.7	1.2 0.6	1.9 0.5	2.3 0.6	-0.3		
29	ePZX	17 10 28.3		2.3 1.3X	3.2 0.6X	2.5 1.0			
29	iPZX	18 39 12.1	12.8	0.9 0.6	1.3 0.3	1.2 0.3	-1.0		
29	ePZX	19 28 32.1	36.3	2.9 0.8	4.4 0.8	3.1 0.7			
29	iPZX	19 54 47.6	16.4	5.3 0.4	10.4 0.4	6.9 0.5	+2.6		
29	iPZX	20 17 47.1	9.5i	0.7 0.5	2.4 0.4	0.9 0.3	+6.0		
29	iPZX	22 36 42.0	10.4	0.9 0.3	1.8 0.2	0.9 0.5	-1.0		
29	iPZX	22 51 19.6	12.4i	2.5 0.7	4.9 0.7	2.5 0.6	-1.0		
29	iPZX	22 52 35.8	22.7i	1.5 0.7	3.8 0.5	1.4 0.7	+1.0		
30	iPZX	00 21 35.8	10.5i	0.8 0.4	1.0 0.2	0.8 0.4	-1.4		
30	ePZX	01 33 10.0	102.1	3.6 0.7	6.3 0.5	3.5 0.6			
30	ePZX	01 45 46.4	13.0i	0.5 0.4	1.4 0.4	0.6 0.4			
30	ePZX	01 58 40.5	17.5	0.9 0.5	1.6 0.4	0.6 0.5			
30	ePZX	05 00 35.1	41.2	1.2 0.6	2.9 0.6	1.1 0.7			
30	ePZX	05 21 49.3		0.6 0.5X	1.3 0.5X	0.6 0.5X			
30	ePZX	05 44 48.1	9.1	0.7 0.3	1.3 0.4	0.7 0.3			
30	iPZX	06 08 36.9	9.3i	0.9 0.6	2.1 0.4	0.7 0.5	-0.8		
30	ePZX	07 41 52.3	8.6	0.8 0.5	1.4 0.4	0.6 0.4			
30	iPZX	09 03 17.7	11.1i	1.2 0.4	2.5 0.3	1.2 0.4	-0.4		
30	iPZX	09 40 51.4	10.9i	5.0 0.7	7.5 0.6	5.2 0.7	-1.0		
30	ePZX	10 29 43.9	12.6	0.7 0.6	1.8 0.2	0.7 0.7			
30	ePZX	11 09 56.3	9.3	1.7 0.3	1.9 0.3	1.6 0.4			
30	iPZX	11 56 10.4	10.4i	1.6 0.5	2.0 0.3	1.5 0.5	+0.8		
30	ePZX	12 28 57.8	57.8i	1.9 0.2	1.7 0.2	0.8 0.3			
30	ePZX	14 37 00.2	9.4	0.9 0.5	1.2 0.4	0.8 0.6			
30	iPZX	17 56 15.9	17.9	3.8 0.5	5.2 0.5	1.5 0.4	-0.4		
30	ePZX	18 04 10.4	18.8	0.5 0.4	1.5 0.5	0.3 0.4			
30	iPZX	19 19 21.5	8.3	1.0 0.4	2.6 0.3	1.4 0.4	-1.6		
30	iPZX	20 05 16.8	1 21.0	1.4 0.5P	2.0 0.6S	0.9 0.4S	-1.2		
30	ePZX	20 48 52.6		1.0 0.4X		0.4 0.4X			
30	iPZX	23 49 04.9							
	exN	49 35.4		26.2 0.7X	29.2 0.8X	21.9 0.7X	-1.4		

date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)						Initial motion(mm)
			h	m	s	m	s	Z	N	E		
1	ePZX	02 05 14.0				8.6i		0.5 1.0X	0.7 1.0X	0.4 1.2X		+2.0
1	iPZX	02 28 48.0						2.2 0.3	7.0 0.2	7.0 0.2		
1	ePZX	03 42 37.1						1.6 0.6	2.2 0.8	1.6 0.7		
1	ePZX	04 38 20.6				11.2i		0.7 0.5	1.8 0.3	0.8 0.3		
1	ePZX	05 40 40.9				45.2		0.6 0.5	0.7 0.4	0.6 0.5		
1	iPZX	07 33 14.7						7.4	0.9 0.5	1.0 0.3	1.3 0.4	+1.0
1	iPZX	08 00 18.5				25.1		1.0 0.6	1.9 0.5	1.9 0.8	2.1 0.3	+1.0
1	ePZX	08 14 00.5				9.0i		1.3 0.5	3.2 0.3	2.1 0.2	1.9 0.2	+0.4
1	iPZX	10 24 34.1				9.7		1.3 0.5	2.5 0.2	1.9 0.2		
1	ePZX	10 57 00.9						0.5 0.5X	0.7 0.5X	0.5 0.6X		
1	iPZX	11 19 57.7				9.2i		0.5 0.5	1.1 0.5	0.7 0.2		
1	iPZX	11 28 18.5				8.8		0.8 0.5	1.7 0.4	1.4 0.5		
1	ePZX	11 37 09.8						2.3 1.0X	3.8 1.5X	3.4 1.7X		
1	ePZX	12 53 47.7				12.5i		2.4 0.6	3.7 0.4	3.1 0.5		
1	iPZX	13 32 31.2				10.0i		3.0 0.5	4.0 0.4	4.1 0.5	-2.6	
1	iPZX	13										

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)
			h	m	s	Z	N	E	
3	ePZX	01 44 38.0				5.5 1.0X	6.9 1.0X	4.7 1.0X	-1.3
3	eIXZ	44 56.0				26.0 0.5	25.0 0.7	15.3 0.8	
3	iPZX	02 12 04.2	10.8i			0.9 0.5X	1.4 0.5X	0.9 0.5X	
3	ePZX	03 31 46.6				0.6 0.5	1.2 0.2	0.7 0.2	
3	ePZX	03 33 14.9	10.6			1.3 0.5X	1.4 0.5X	0.9 0.4X	
3	ePZX	03 46 06.6				0.6 0.7P	0.5 0.8P	0.4 0.6X	-2.2
3	iPZX	03 48 20.6				0.6 0.7P	0.5 0.8P	0.4 0.6X	-1.0
3	iPZX	06 02 09.7	09.0			1.1 0.3	2.4 0.5	1.9 0.2	
3	ePZX	07 42 10.1	11.9			0.5 0.4	0.8 0.5	0.5 0.2	
3	iPZX	08 52 15.9	11.6			0.7 0.2P	0.6 0.3S	0.8 0.5S	-1.1
3	ePZX	10 43 52.7				2.4 1.0X	2.8 0.7X	2.5 1.2X	
3	iPZX	11 17 27.1	15.4			0.5 0.5	0.6 0.3	0.3 0.5	-0.9
3	iPZX	11 39 06.5	09.7i			4.5 0.5	9.2 0.3	5.8 0.3	-2.0
3	ePZX	11 40 01.1	12.4			53.4 0.7	>65 0.7	63	
3	ePZX	11 55 16.4				1.5 0.7X	1.6 0.6X	1.9 0.8X	
3	ePZX	14 30 00.5	09.3			1.0 0.5	1.5 0.3	1.2 0.3	
3	iPZX	15 04 23.9	11.0			2.0 0.5	3.5 0.5	1.1 0.3	-0.9
3	ePZX	16 31 35.7	20.7			1.4 0.5	2.1 0.3	2.3 0.4	
3	ePZX	17 50 23.8	09.2			0.8 0.2	1.2 0.4	0.9 0.2	
3	iPZX	18 09 02.1	11.8i			6.5 0.6	20.8 0.3	7.3 0.7	-1.7
3	ePZX	18 15 52.5	10.6i			1.5 0.4	5.0 0.2	2.0 0.2	
3	ePZX	18 41 47.7	10.4i			0.8 0.6	1.9 0.2	1.4 0.5	
3	iPZX	19 18 10.4	09.2i			0.5 0.5	1.0 0.3	0.8 0.3	-0.3
3	ePZX	19 22 39.4	12.5			0.6 0.4	1.5 0.2	0.5 0.3	
3	iPZX	20 26 09.0				6.7 2.0X	7.5 0.7X	4.4 0.3X	+2.0
3	iXZ	26 19.9							
3	ePZX	20 47 50.8	12.2			1.0 0.5	3.0 0.4	2.2 0.5	
3	iPZX	21 01 20.6	11.9i			1.3 0.5	2.1 0.6	2.2 0.3	-1.0
3	ePZX	21 02 35.0	11.6			1.4 0.4	3.0 0.5	1.5 0.7	
3	ePZX	22 12 43.0	11.4i			3.6 0.5	5.6 0.4		
3	ePZX	22 24 47.9	09.4i			0.9 0.6	1.1 0.3	3.9 0.3	
3	ePZX	23 16 00.3	07.9			10.5 0.7	18.6 0.3	9.9 0.4	
3	ePZX	23 31 35.2							
3	eIXN	31 49.5							
3	eIZZX	32 00.5				1.2 0.6X2	2.2 1.1X2	1.1 1.0X1	
4	ePZX	00 39 02.6				0.5 0.6X	1.1 0.8X	0.7 0.5X	
4	ePZX	01 28 27.8	14.7			0.5 0.4	0.6 0.5	0.3 0.5	
4	ePZX	01 44 41.9	15.3			0.5 0.3	0.8 0.3	0.3 0.5	
4	iPZX	02 12 10.1	08.4			1.9 0.6	3.0 0.5	2.3 0.5	-0.6
4	ePZX	03 38 56.0	12.3			0.5 0.4	0.7 0.5	0.9 0.4	
4	ePZX	04 05 41.0	09.2i			0.7 0.4	1.4 0.3	0.6 0.7	
4	ePZX	04 54 11.6				1.0 0.6	1.0 0.8	1.4 0.5	
4	ePZX	04 54 07.0							
4	iXZ	54 18.0				0.6 0.5X	1.3 0.8X	0.9 0.5X	
4	iPZX	06 17 59.7	09.3i			9.0 0.6	15.5 0.5	15.0 0.6	+7.3
4	ePZX	06 25 41.0	22.5			0.9 0.5	2.1 0.6	1.4 0.8	
4	ePZX	06 44 47.2	14.3			1.0 0.4	1.4 0.6	1.1 0.4	
4	ePZX	07 04 17.6	36.4			0.5 0.3	0.9 0.3	0.6 0.5	
4	iPZX	09 01 08.9	09.3i			0.5 0.4	0.9 0.5	0.6 0.5	+0.6
4	ePZX	09 24 05.1	10.9			0.6 0.5	1.6 0.3	1.1 0.2	
4	ePZX	09 36 00.5	120.7			10.9 0.7	8.0 0.6	7.5 0.9	
4	ePZX	10 27 16.6	09.1			0.5 0.3	0.7 0.5	0.6 0.4	
4	ePZX	10 28 15.8	13.8			0.5 0.4	0.6 0.4	0.4 0.5	
4	iPZX	11 12 55.7	09.6			1.4 0.6	2.9 0.3	2.0 0.5	+1.4
4	ePZX	11 22 06.0	09.8i			1.4 0.4	2.4 0.3	1.5 0.5	
4	ePZX	11 49 30.0	11.5i			1.2 0.4	2.5 0.3	1.5 0.2	
4	ePZX	13 54 10.7				0.5 0.5X	0.3 0.5X	0.4 0.5X	
4	iPZX	14 13 53.0	12.0i			1.3 0.3	2.4 0.4	1.2 0.3	+1.0
4	ePZX	15 15 46.1	05.9			0.8 0.3	1.3 0.3	0.8 0.2	
4	iPZX	15 39 35.5	07.6			0.9 0.5	2.9 0.2	1.0 0.4	-1.0
4	ePZX	16 13 19.5	45.5			SO	SO	SO	
4	iPZX	18 20 34.0	08.0i			9.7 0.8	18.0 0.5	12.5 0.4	-4.0
4	iPZX	20 09 38.4	07.4			1.0 0.5	1.7 0.2	1.1 0.3	-0.9
4	ePZX	20 37 17.7	09.3i			1.0 0.5	2.4 0.3	1.6 0.2	
4	ePZX	20 49 09.3				0.7 0.4X	1.3 0.6X	1.0 0.7X	

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Date	Phase	Time(JST)	P-S	m	s	Amplitude(mm) · Period(sec)	Z	N	E	Initial motion(mm)
4	ePZX	21 51 42.0				11.2	0.7 0.5	1.5 0.6	0.6 0.7	+2.0
4	iPZX	21 52 15.0				10.7	1.5 0.7	5.5 0.2	1.6 0.2	
4	ePZX	22 21 48.0				14.7i	0.5 0.7X	0.7 0.7X	0.7 0.7X	
4	ePZX	22 36 23.6				35.3	1.0 0.5	2.7 0.9	1.4 0.7	
4	ePZX	23 21 46.3				iZN	0.7 0.6X	1.3 0.7X	1.0 0.9X	
5	ePZX	01 14 37.2				13.3	1.2 0.5	2.1 0.6	1.0 0.3	
5	ePZX	01 21 51.1				13.8	1.7 0.6	2.4 0.6	2.0 0.5	
5	ePZX	02 59 59.2				14.7i	1.7 0.4	2.2 0.5	1.7 0.8	
5	ePZX	03 46 10.4				11.6	0.6 0.6	1.3 0.7	0.7 0.6	
5	ePZX	03 57 40.6				12.1	1.0 0.4	2.0 0.2	1.0 0.5	
5	iPZX	04 40 57.6								

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Date	Phase	Time(JST)	P-S			Amplitude(mm) • Period(sec)			Initial motion(mm)
			h	m	s	m	s	Z	
7	ePZX	05 05 01.0		05.2		0.7 0.4	1.6 0.2	1.2 0.2	-1.8
7	ePZX	06 22 11.2		11.1		1.3 0.5	2.1 0.4	1.2 0.6	
7	iPZX	06 58 00.6		09.9		1.7 0.6	1.5 0.7	1.4 0.3	
7	ePZX	07 17 56.7				1.2 0.6X	1.4 0.6X	1.4 0.6X	-0.7
7	iPZX	08 54 57.7		14.5		0.9 0.5	1.1 0.6	0.9 0.5	-1.0
7	iPZX	10 44 29.5		09.6i		0.6 0.5	1.0 0.4	0.8 0.3	-1.0
7	ePZX	11 40 34.5				0.6 0.5	1.0 0.4	0.4 0.6	+0.7
7	iPZX	12 02 30.6		10.6		0.5 0.5	0.6 0.6	0.4 0.5	-0.4
7	iPZX	12 34 36.1		11.5		0.5 0.6	0.6 0.2	0.5 0.4	
7	ePZX	15 02 44.0				3.0 0.5X	3.0 0.6X	5.9 0.7X	
7	ePZX	17 04 39.7	2	10.3		0.5 0.6	0.7 0.5	0.6 0.7	-0.3
7	iPZX	19 01 50.1		12.1		1.9 0.6	3.0 0.2	1.7 0.4	
7	ePZX	19 21 05.8		19.2		0.5 0.5	1.0 0.4	0.5 0.6	-0.7
7	iPZX	21 16 31.0		10.4		0.6 0.3	1.4 0.3	0.5 0.3	+0.0
7	iPZX	21 30 30.0		07.4		1.7 0.4	3.0 0.4	1.9 0.5	-0.4
7	iPZX	22 10 49.5		09.1i		0.7 0.2	1.5 0.2	1.0 0.2	
7	ePZX	22 16 58.7		35.7		28.3 0.8	31.3 1.3	31.0 0.8	
7	ePZX	23 04 55.0		28.0		0.9 0.5	1.2 1.0	0.9 0.8	
7	ePZX	23 10 20.7		11.3i		7.5 0.6	9.8 0.5	6.3 0.5	-0.9
7	iPZ	23 15 20.1		11.1i		28.7 0.4	>42	0.8	24.0 0.5
8	iPZX	02 07 10.2		13.0		1.6 0.6	2.2 0.4	1.6 0.7	-0.8
8	iPZX	02 21 00.0		09.0		0.5 0.5	0.9 0.5	0.4 0.5	+0.5
8	iPZX	03 08 51.2		13.1		1.1 0.5	2.0 0.5	1.4 0.7	-2.0
8	ePZX	03 47 44.0		10.6		0.5 0.5	0.8 0.7	0.5 0.6	
8	ePZX	06 24 42.3		12.5		0.6 0.4	0.9 0.2	0.7 0.8	
8	iPZX	06 41 10.2		11.3		1.4 0.5	2.2 0.6	1.5 0.5	+1.0
8	ePZX	06 43 10.4		20.2		2.1 0.6	2.6 0.6	2.5 0.8	
8	ePZX	06 50 11.5		14.5		0.5 0.5	0.8 0.5	0.0 0.5	
8	iPZ	09 19 03.6				83.2 0.7	61.5 1.0	60.0 0.5	+1.1
8	ePZX	09 58 02.5		11.0		0.6 0.5	1.2	0.7	
8	iPZ	11 43 53.6		12.5i		11.7 0.6	26.2 0.3	13.5 0.5	-2.1
8	ePZX	12 08 12.5				4.2 0.8X	6.7 0.6X	7.5 0.7X	
8	ePZX	12 13 32.1				5.6 0.9X	7.4 0.8X	6.0 0.6X	
8	iPZX	12 46 15.6		09.2		7.0 0.7	60.0 0.5	58 0.7	+20.4
8	iPZX	12 53 59.1		17.8		21.0 0.8	19.5 0.9	15.8 0.9	+0.2
8	iPZX	14 05 22.9		10.7i		1.7 0.5	3.1 0.3	1.4 0.5	-1.0
8	ePZX	14 36 50.5		11.0		0.7 0.5	1.2 0.3	1.1 0.6	
8	iPZX	16 25 59.9		08.6i		0.9 0.3	1.4 0.3	1.2 0.6	
8	iPZX	17 02 14.5				80 X	80 X	80 X	+2.3
8	iPZX	18 50 04.0		10.5		1.2 0.4	2.6 0.5	2.4 0.4	-0.7
8	iPZX	19 35 37.0		10.5i		1.4 0.5	1.7 0.5	1.1 0.6	-2.2
8	ePZX	19 36 45.5		31.5		1.4 0.5	1.7 0.5	1.7 0.4	
8	ePZX	19 50 55.5		25.8		4.2 0.6	5.5 0.8	4.2 0.6	
8	iPZX	20 01 32.7		12.8		5.3 0.6	12.7 0.5	9.0 0.6	-2.7
8	iPZX	20 41 19.6	1	03.7		0.5 0.4P	0.6 0.45	0.3 0.55	+0.7
8	ePZX	21 27 24.6		10.4		4.1 0.3	7.5 0.6	5.5 0.2	
8	ePZX	23 07 42.6		14.6		0.7 0.3	1.1 0.6	0.5 0.5	
9	ePZX	01 19 57.5		08.5i		2.0 0.3	4.1 0.3	2.6 0.5	
9	ePZX	04 20 51.2				1.5 0.5X	2.1 0.5X	1.6 0.5X	
9	ePZX	06 26 52.5				2.1 0.6X	4.5 0.7Y	1.9 0.8X	
9	eKN	20 12.5				1.9 0.6	2.6 0.9	1.7 0.7	
9	ePZX	06 36 02.1		27.9		1.9 0.6	2.6 0.9	2.0 0.7X	-1.9
9	iPZX	07 25 41.6				2.8 0.5X	1.3 0.6X	2.0 0.7X	
9	ePZX	07 38 12.0				0.7 0.5X	0.8 0.7X	1.4 0.6X	
9	iPZX	08 35 03.0		10.8		1.1 0.4	1.7 0.3	1.7 0.8	+0.2
9	ePZX	08 47 10.2				0.5 0.5Y	0.6 0.5X	0.0 0.6X	
9	ePZX	09 14 06.0		25.4		0.5 0.4	0.6 0.5	0.5 0.5	
9	iPZX	10 05 30.6		13.4		1.0 0.6P	1.0 0.6S	1.1 0.5S	-0.3 ** cf. page 12
9	iPZX	12 10 20.3		08.7		0.7 0.5	2.2 0.2	1.6 0.2	-0.9
9	ePZX	12 24 18.8		22.6		0.3 0.3	1.2 0.6	1.0 0.5	
9	iPZX	12 44 01.5		10.0		2.3 0.6	4.8 0.4	2.5 0.5	+0.7
9	iPZX	12 52 10.5		47.5		0.9 0.5	1.1 0.6	1.4 1.2	
9	ePZX	13 28 14.3		14.4		96 0.8	97.4 0.7	90.4 0.9	
9	ePZX	13 30 37.7		16.1		10.2 1.0	28.3 0.6	27.4 0.8	
9	iPZX	14 51 01.4				0.5 0.4X	0.5 0.5Y	0.4 0.5X	-1.2
9	eKN	51 12.0				0.5 0.5	0.9 0.5	1.0 0.5	
9	ePZX	15 32 14.9		12.6		0.5 0.5	0.9 0.5	1.0 0.5	

** cf. page 12

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Date	Phase	Time(JST)	P-S	Amplitude(mm) • Period(sec)	Initial motion(mm)
		h m s	m s	Z N E	
*	ePZX	17 06 49.4		11.0 0.9X 14.5 1.0X 11.2 1.0X	+0.3
*	iPZ	17 29 51.5		39.5 1.8Z 57 1.0X 35.5 1.2X	
*	ePZX	18 16 38.0	12.6	0.6 0.4 1.3 0.3 0.6 0.5	
*	iPZX	18 34 37.9		50 X 135 X 135 X	+1.2
*	eKN	19 40 24.0		15.3 1.0Y 20.3 0.6X 18.1 1.5Y	-1.6
*	ePZX	20 53 38.2		0.8 0.6X 1.2 0.7X 0.9 0.9X	
*	eYX	20 54 13.8		1.2 0.7X 1.8 1.0 1.6 0.7	
*	ePZX	21 42 18.0	48.8	0.8 0.7 1.8 1.0 1.6 0.7	

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)						Initial motion(mm)	
			h	m	s	m	s	Z	N	E	W	S	
12	ePZX	09 52 57.0				13.8		1.9 0.5	3.3 0.6	1.9 0.5			
12	iPZX	10 19 58.1				30.1		2.5 0.5	3.3 0.6	2.5 0.5			
12	iPZX	10 31 13.3						7.5 0.7X	11.0 0.9X	7.7 0.5X	+1.0		
12	ePZX	10 49 32.7						2.0 0.6X	1.3 0.8X	1.1 0.6X			
12	iPZX	12 57 08.7											
12	iYZ	57 39.2				>77		X	SO X	61 X	+1.2		
12	ePZX	13 07 28.7											
	eXZ	08 01.5						1.0 0.6X	1.2 1.0X	1.2 0.9X			
12	ePZX	13 01 54.0						6.6 0.7X	8.3 0.6X	5.6 0.6X			
12	iPZX	14 15 47.3				09.21		4.1 0.6	7.3 0.4	4.8	-0.4		
12	ePZX	14 28 10.8				26.41		2.2 0.6	4.1 0.8	2.7 0.6			
12	ePZX	15 10 43.4				40.1		1.2 0.5	1.6 0.6	1.4 0.7			
12	iPZX	15 49 43.1				10.7		4.8 0.5	13.1 0.5	7.1 0.4	-3.8		
12	iPZX	16 13 28.3				09.71		2.5 0.5	4.3 0.7	2.1 0.5	(-)		
12	ePZX	16 55 15.5				41.0		0.9 0.5	1.5 0.8	1.1 0.7			
12	iPZX	17 21 04.6				10.7		1.8 0.5	1.2 0.3	0.9 0.5	-1.1		
12	iPZX	19 11 10.0				09.5		1.0 0.6	2.5 0.3	1.8 0.2	-1.2		
12	ePZX	20 41 56.7											
	eXZ	42 10.3						0.5 0.5X	1.1 0.6X	0.6 0.6X			
12	iPZX	21 03 24.2				12.3		0.8 0.5	1.6 0.3	0.8 0.5	-0.6		
12	ePZX	23 35 27.5											
	eXZ	36 04.8						2.3 0.8X	1.8 0.5X	1.4 0.9X			
13	ePZX	00 41 20.0				18.7		1.2 0.6	1.9 0.6	1.4 0.6			
13	ePZX	01 43 21.5											
	eYN	43 36.8						19.0 0.6	22.0 1.4	13.4 1.0			
13	iPZX	01 51 01.7				10.6		2.0 0.5	2.5 0.5	2.5 0.4	-0.9		
13	ePZX	02 31 02.3				10.5		1.7 0.5	3.3 0.3	2.5 0.6			
13	ePZX	03 43 51.9				23.9		3.8 0.6	5.6 0.6	4.4 0.5			
13	iPZ	06 38 47.6				12.11		11.8 0.5	24.0 0.3	10.8 0.4	+1.2		
13	iPZX	06 41 02.5				09.2		1.8 0.5	3.0 0.7	1.9 0.5	-5.8		
13	iPZ	06 42 48.6				09.3		1.5 0.5	2.7 0.7	1.7 0.6	+0.4		
13	ePZX	07 03 31.0				1.51		2.4 1.0	4.1 1.2	2.6 1.0			
13	iPZX	08 25 45.4				09.7		1.6 0.5	2.5 0.5	1.8 0.3	-0.9		
13	iPZX	14 22 02.0				12.4		1.3 0.6	4.3 0.2	2.3 0.5	+1.1		
13	ePZX	15 23 39.9				15.9		1.4 0.5	2.5 0.6	1.3 0.6			
13	ePZX	16 04 39.1				11.51		1.0 0.5	2.5 0.2	2.4 0.2			
13	ePZX	16 14 02.1				09.5		0.5 0.3	1.7 0.3	0.9 0.2			
13	ePZX	17 09 08.4				30.61		1.3 0.8	4.6 0.7	1.9 0.7			
13	iPZX	17 19 09.7				02.3		2.4 0.5	3.9 0.3	2.2 2.2	+1.2		
13	ePZX	17 23 57.5				1.16.5		0.5 0.7	1.1 0.6	0.9 0.6			
13	ePZX	19 26 40.6				12.7		2.2 0.6	2.5 0.5	1.3 0.5			
13	ePZX	19 29 26.9				13.3		1.4 0.7	1.9 0.4	2.0 0.5			
14	iPZX	01 23 51.9				16.11		2.8 0.8	4.1 0.7	4.5 0.6	-1.0		
14	iPZ	01 36 06.1				07.71		14.5 0.5	39.6 0.5	20.3 0.2	+11.0		
14	ePZX	02 53 49.0											
	eYN	54 13.3						1.4 1.0X	2.4 0.7X	1.1 0.7X			
14	ePZX	05 11 14.5				14.9		1.1 0.6	1.0 0.7	0.9 0.6			
14	iPZX	06 59 36.3				06.21		2.4 0.5	5.5 0.3	5.7 0.2	-7.5		
14	ePZX	10 34 15.3				16.8		0.6 0.4P	2.2 0.6S	0.8 0.7S			
14	iPZ	11 17 09.3				16.31		6.2 0.7	11.1 0.5	7.0 0.5	+1.0		
14	iPZX	11 37 45.0				07.0		1.5 0.4	1.8 0.5	2.2 0.5	+3.1		
14	iPZX	12 07 24.8											
	eYN	07. 34.0				07.21		9.7 0.7X	18.0 0.5X	10.2 0.5X	-1.5		
14	iPZX	13 28 15.5				14.5		5.7 0.6	7.7 0.8	5.5 0.7	-1.0		
14	iPZ	14 25 10.0				19.2		57 0.9	54 1.1	37 0.8	+0.8		
14	ePZX	16 09 10.0				15.7		9.7 0.6	15.0 0.9	9.7 0.7			
14	iPZ	16 23 58.9				18.1		20.0 1.0	38.6 0.8	30 0.5	+0.2		
14	ePZX	17 01 46.7				09.5		1.0 0.7	1.9 0.5	1.2 0.6			
14	ePZX	17 30 11.0				15.0		0.8 0.2	1.8 0.9	1.1 0.4			
14	ePZX	19 06 44.0				22.2		2.2 0.6	2.3 0.7	2.3 0.5			
14	ePZX	21 27 03.2				14.8		0.5 0.4	0.5 0.6	0.4 0.7			
14	ePZX	22 16 10.0				12.0		0.5 0.4	1.4 0.4	0.6 0.4			
14	ePZX	22 36 12.8				0.6 0.5X		0.8 0.4Y	0.4 0.6X				

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)	Initial motion(mm)
		h m s	m s	Z N E W S	
15	iPZX	01 02 06.4	11.4i	7.1 0.8 8.8 0.7 8.0 0.6	

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Date	Phase	Time(JST)	P-S	Amplitude(mm) • Period(sec)			Initial motion(mm)		
				h	m	s	Z	N	E
17	ePZX	20 51 33.1	10.0	0.5	0.5	1.2	0.4	0.7	0.3
17	IPZX	21 02 12.0	17.0	0.7	0.7	2.0	0.5	0.5	0.5
17	ePZX	21 03 24.0	9.2	1.1	0.7	2.7	0.2	2.3	0.7
17	ePZX	21 07 29.6	11.8	1.2	0.7	2.2	0.7	1.6	0.7
17	IPZX	22 20 41.1	6.6	0.7	0.2P	1.2	0.5S	0.7	0.5S
18	ePZX	01 27 11.2	46.4	1.2	0.7	1.6	0.4	1.2	0.2
18	IPZX	01 52 17.1	8.5	7.3	0.4	19.4	0.3	8.4	0.4
18	ePZX	04 38 51.1	10.0	1.9	0.7	5.1	0.2	2.9	0.3
18	IPZX	06 43 07.3	—	0.6	0.3Y	1.3	0.2X	0.8	0.2X
18	ePZX	08 32 31.6	20.1	1.6	0.7	1.5	0.6	1.6	1.0
18	ePZX	09 30 36.9	31.7	0.8	0.5	1.2	0.8	0.9	0.8
18	IPZX	09 41 42.7	—	—	—	—	—	—	—
18	IPZX	42 21.1	—	0.6	0.6X	0.9	0.4X	0.6	0.5X
18	IPZX	09 55 26.2	10.1	3.2	0.5	7.1	0.5	4.5	0.6
18	ePZX	10 01 31.6	—	3.4	1.5P	5.9	1.3P	4.3	1.0P
18	IPZX	10 31 46.9	—	0.5	0.6X	1.0	0.7X	0.5	0.5X
18	ePZX	11 34 46.2	12.1	1.8	0.4	2.4	0.1	1.9	0.4
18	IPZX	12 40 06.1	10.2	1.8	0.5	3.8	0.2	1.9	0.4
18	ePZX	13 40 30.8	9.0	1.0	0.4	2.1	0.3	1.0	0.4
18	ePZX	14 06 50.1	33.0	0.6	0.5	1.1	0.9	0.7	0.9
18	IPZX	20 21 21.6	19.5	27.1	1.0	30.0	0.9	30.0	1.1
18	IPZX	21 03 36.9	12.0	4.1	0.5	6.4	0.3	4.0	0.3
18	ePZX	21 56 39.2	—	0.5	0.5X	0.7	0.6X	0.3	0.7X
19	ePZX	01 08 41.2	12.7	0.7	0.5	1.4	0.3	0.8	0.4
19	IPZX	01 27 56.7	—	0.8	0.7X	1.3	0.7X	1.0	0.6X
19	IPZX	02 41 25.2	9.2	5.3	0.3	12.2	0.3	6.8	0.5
19	ePZX	05 43 50.6	—	1.5	0.7Y	1.5	0.8Y	1.0	0.7X
19	ePZX	06 28 09.9	17.7	0.7	0.5	1.5	0.6	1.3	0.4
19	IPZX	07 47 52.1	11.3	0.7	0.4	1.4	0.4	0.6	0.4
19	IPZX	07 49 34.7	10.4	0.6	0.4	1.4	0.4	0.7	0.4
19	ePZX	08 06 32.3	23.1	2.1	0.3	2.4	0.3	2.0	0.4
19	ePZX	11 10 31.0	17.1	0.5	0.5	0.7	0.9	0.5	0.5
19	IPZX	11 23 43.4	8.5	0.6	0.5	2.1	0.5	1.4	0.5
19	ePZX	12 55 49.4	31.1	0.5	0.5	0.7	0.5	0.5	0.4
19	IPZX	14 52 26.7	9.6	1.9	0.2	3.8	0.2	3.4	0.4
19	ePZX	16 49 02.5	11.4	0.6	0.5	1.2	0.5	0.6	0.5
19	ePZX	18 34 45.1	10.2	4.3	0.6	6.3	0.5	5.2	0.5
19	ePZX	18 38 25.9	10.0	1.1	0.5	2.4	0.3	1.3	0.5
19	ePZX	18 43 55.1	10.6	1.0	0.6	3.7	0.3	1.6	0.3
19	IPZX	20 59 21.8	—	—	—	—	—	—	—
19	ePZX	38 34.6	—	4.4	0.7X	4.8	0.8X	4.1	0.7X
20	ePZX	01 29 00.8	10.7	0.5	0.5	0.6	0.3	0.5	0.7
20	IPZX	02 22 11.1	24.3	1.1	0.7	1.5	0.6	1.6	0.7
20	ePZX	02 57 47.6	—	0.6	0.5X	1.0	0.5X	0.8	0.5X
20	ePZX	03 57 45.7	28.0	1.2	0.6	3.0	0.8	2.4	0.8
20	IPZX	06 34 20.1	10.3	1.0	0.5	1.7	0.4	0.8	0.3
20	IPZX	09 04 17.0	10.7	0.9	0.3	2.9	0.3	1.6	0.2
20	IPZX	09 44 16.1	9.6	5.1	0.3	10.1	0.3	8.5	0.3
20	ePZX	10 32 23.9	29.1	1.3	0.5	1.7	0.5	1.1	0.6
20	ePZX	11 51 14.7	28.0	0.5	0.4	0.7	0.4	0.5	0.9
20	IPZX	15 29 40.8	8.9	30.7	0.6	32.0	0.5	31.7	0.6
20	ePZX	18 35 31.5	21.1	0.5	0.5	0.9	0.2	0.4	0.2
20	IPZX	18 54 12.7	—	0.6	0.4X	0.6	0.3X	0.5	0.4X
20	IPZX	19 12 25.2	15.5	9.1	0.6	9.4	0.6	9.8	0.5
20	ePZX	19 26 44.7	—	0.5	0.7X	1.0	0.7X	0.4	0.6X
20	ePZX	19 59 56.6	8.7	0.5	0.3	0.7	0.2	0.4	0.2
20	ePZX	22 28 22.9	—	—	—	—	—	—	—
20	IPZX	29 27.0	—	—	—	—	—	—	—
20	ePZX	22 38 52.8	—	—	—	—	—	—	—
21	IPZX	01 23 41.1	9.8	2.1	0.3	6.4	0.2	3.2	0.2
21	ePZX	02 30 30.2	13.9	0.8	0.6	1.4	0.6	1.0	0.7
21	IPZX	02 59 50.6	7.2	0.5	0.4	1.4	0.3	0.4	0.4
21	ePZX	03 17 06.5	17.4	0.5	0.4	1.3	0.4	0.5	0.3
21	IPZX	03 33 13.2	9.0	3.8	0.3	9.1	0.3	6.6	0.4

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Date	Phase	Time(JST)	P-S	Amplitude(mm) • Period(sec)			Initial motion(mm)		
			h	m	s	Z	N	E	
21	ePZX	04 26 01.4	12.7	1.0	0.5	2.5	0.3	1.8	0.3
21	IPZX	04 30 01.2	13.8	0.5	0.5	17.2	0.4	7.8	0.4
21	ePZX	04 35 20.1	9.0	0.6	0.4	2.2	0.4	1.6	0.3
21	ePZX	07 04 02.4	11.4	1.0	0.5	2.6	0.3	1.5	0.4
21	ePZX	07 39 14.1	—	—	—	0.5	0.5X	0.7	0.5X
21	IPZX	08 54 59.9	10.6	4.4	0.5	6.2	0.4	3.2	0.5
21	ePZX	11 09 06.6	8.5	0.5	0.4	0.9	0.3	0.5	0.5
21	IPZX	11 25 07.9	10.4	0.5	0.4	1.0	0.3	0.5	0.5
21	IPZX	13 19 39.6	8.8	0.5	0.3	0.9	0.3	0.5	0.3
21	ePZX	13 35 35.3	8.7	0.7	0.5	1.4	0.4	1.2	0.7
21	ePZX	13 39 51.7	11.3	0.9	0.5	1.0	0.3</		

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)			Initial motion(mm)	
				h	m	s		
24	ePZX	17 07 34.9						
	eXE	08 33.8						
24	ePZX	20 34 19.1	11.3	2.3 0.8X	2.4 0.8X	2.2 1.2X		
24	ePZX	21 26 40.1	6.2	2.0 0.7	3.4 0.5	2.1 0.6		
24	ePZX	21 55 56.5	9.9	0.6 0.2	2.7 0.2	1.5 0.3		
24	ePZX	22 25 21.5	14.2	0.3 0.7	1.4 0.5	1.2 0.5		
	ePZX			1.0 0.6	0.8 0.5			
25	ePZX	00 52 16.3						
	ePZX	01 26 18.7	31.1i	0.7 0.7X	1.2 0.9X	1.1 0.8X		
25	ePZX	01 47 44.1		0.5 0.6X	0.8 0.7X	0.7 0.6X	-2.0	
25	iPZX	03 33 29.0	15.4i	2.4 0.7	4.0 0.7	2.5 0.8		
25	ePZX	05 21 11.4	15.3	0.5 0.5	0.6 0.6	0.5 0.6		
25	ePZX	07 19 22.7	21.7	3.3 0.5	2.9 0.5	2.4 0.5		
25	ePZX	07 31 31.7	11.4	0.6 0.6	1.4 0.4	1.2 0.6		
25	ePZX	08 08 32.8	24.0	3.6 1.0	4.6 0.7	3.6 0.7		
25	ePZX	10 49 25.5						
	eXE	49 59.2						
25	ePZX	12 17 45.9		0.9 0.57	0.7 0.6X	0.7 0.6X		
25	ePZX	14 41 26.4						
	eXE	41 53.3						
25	ePZX	16 21 18.6		0.5 0.7X	1.2 0.7X	0.8 0.7X		
25	ePZX	16 35 17.0		0.5 0.7X	0.7 0.7X	0.5 0.5X		
25	ePZX	18 01 42.3	9.9	0.5 0.5	1.0 0.5	0.7 0.5		
25	ePZX	18 31 34.3	10.7i	2.5 0.5	5.0 0.5	3.7 0.5		
25	ePZX	18 58 56.7	41.1	0.8 0.5	1.8 0.5	0.8 0.6		
25	iPZX	19 51 37.0		12.9 1.6X	16.9 1.6X	11.9 1.5X	-2.4	
25	ePZX	20 10 01.5	16.1	2.3 0.5	3.0 0.4	1.5 0.6		
25	iPZX	21 23 52.0	11.5	1.0 0.5	2.5 0.5	1.7 0.4	-1.0	
25	ePZX	22 24 12.4	11.3	0.5 0.5	0.5 0.5	1.0 0.5		
25	ePZX	23 29 03.3		0.6 0.5X	1.1 1.0X	0.9 0.6X		
25	ePZX	23 32 54.4		0.5 0.5X	0.4 0.8X	0.9 0.5X		
26	ePZX	01 09 48.3	09.2	1.1 0.7	1.0 0.6	1.5 0.5		
26	ePZX	04 50 43.4		0.7 0.7X	1.1 0.5X	0.6 0.8X		
26	iPZX	08 52 30.8	9.2	0.4 0.2	1.6 0.2	0.5 0.3	-1.8	
26	ePZX	09 33 09.0	30.9	1.3 0.3	1.4 1.1	1.0 1.0		
26	iPZX	10 05 38.5	07.4	1.1 0.3	0.8 0.6	1.7 0.4	+1.0	
26	ePZX	10 56 30.0	09.9	2.0 0.5	4.3 0.3	2.0 0.4		
26	iPZX	11 25 58.3	12.1	22.8 0.5	32.7 0.7	25.0 0.7	-4.0	
26	iPZX	14 04 22.2	12.5	0.8 0.3	0.7 0.7	1.6 0.3	+0.3	
26	ePZX	14 41 23.6	10.6	0.7 0.5	1.0 0.5	1.7 0.5		
26	iPZX	19 05 40.0	10.8	0.6 0.5	0.5 0.7	0.9 0.4	+1.4	
27	iPZX	01 17 42.1	09.7	1.3 0.6	1.8 0.3	1.3 0.2	+1.5	
27	iPZX	02 37 31.4		2.3 0.5X	3.8 0.3X	3.4 0.5X	-1.8	
27	iPZX	03 17 22.9	12.1	5.2 0.7	7.6 0.6	10.4 0.7	+1.4	
27	iPZX	05 26 16.4	11.4i	0.7 0.5	2.3 0.3	1.1 0.2	+0.7	
27	iPZX	07 07 50.2	50.0	2.5 0.7	6.2 0.3	2.2 0.7	+3.7	
27	ePZX	08 14 27.8		2.7 0.5X	3.5 0.6X	3.6 0.5X		
27	ePZX	14 21 0						
27	iPZX	09 14 27.0	11.3i	4.5 0.5	5.2 0.5	3.2 0.3	+3.0	
27	ePZX	10 25 41.2						
	eXE	25 53.6	09.7	3.9 0.4X	6.5 0.5X	4.4 0.7X		
27	ePZX	10 37 11.1	11.5	1.2 0.5	1.9 0.3	1.6 0.3		
27	ePZX	10 56 06.8	1.01.0	0.8 0.5	1.5 0.9	1.2 0.6	-2.2	
27	iPZX	11 14 27.6	10.4i	3.9 0.6	4.8 0.3	3.7 0.6		
27	ePZX	13 22 10.8	42.5	2.8 0.3P	7.8 0.5S	3.8 0.7S	-3.0	
27	iPZX	15 37 05.0	09.4i	1.1 0.6	1.9 0.4	0.9 0.6		
27	ePZX	17 23 45.4	47.4	2.7 0.2	3.2 1.0	2.1 0.9	+0.8	
27	iPZX	18 27 32.2	08.6i	1.2 0.5	3.2 0.3	1.4 0.5	-0.8	
27	iPZX	19 19 33.1	12.8	1.7 0.5	1.5 0.5	1.2 0.4		
27	ePZX	20 48 42.5	11.8	1.2 0.2	4.0 0.3	1.4 0.3		
27	ePZX	21 28 45.1	11.7	0.7 0.5	2.0 0.2	0.7 0.3	+1.0	
27	iPZX	22 37 23.8	10.6	0.6 0.5	1.1 0.3	0.8 0.6		
27	ePZX	23 12 42.5	23.3	0.5 0.3	1.2 0.5	0.7 0.6		

Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)			Initial motion(mm)
				h	m	s	
23	iPZX	01 11 07.3					
	eXE	11 23.8					
23	iPZX	01 38 36.3					
	iPZX	38 45.5					
23	ePZX	04 16 21.6					
	iPZX	24 25.2					
23	ePZX	05 32 10.9					
	iPZX	32 11.6					
23	iPZX	05 52 02.1					
	iPZX	52 12.4					
23	ePZX	07 19 55.8					
	iPZX	55.8 00.0i					
23	ePZX	07 56 36.8					
	iPZX	56 11.5					
23	iPZX	08 48 33.5					
	iPZX	48 22.5					
23	iPZX	09 32 33.8					
	iPZX	32 14.8					
23	ePZX	11 27 36.8					
	iPZX	27 00.6					
23	ePZX	14 14 30.0					
	iPZX	14 12.3					
23	iPZX	15 50 34.9					
	iPZX	50 2.8					
23	iPZX	16 17 21.0					
	iPZX	17 6.0					
23	iPZX	17 58 16.4					
	iPZX	58 45.5i					
23</							

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Date	Phase	Time(JST)			P-S		Amplitude(mm)				Period(sec)		Initial motion
		h	m	s	m	s	Z	N	E				
31	ePZX	00	15	23.8			0.8	0.5	1.7	0.5	0.8	0.4	
	eXE		15	34.5	09.0		0.6	0.5	1.3	0.5	0.8	0.6	
31	ePZX	00	28	51.5		12.6							-1.6
31	iPZX	00	50	38.5		10.01	3.8	0.7	7.7	0.1	5.8	0.2	
31	ePZX	01	26	23.7			0.9	0.5X	1.2	0.5X	0.7	0.5X	
31	iPZX	02	35	42.5									-2.0
	iXZ		35	45.1	57.5		27.6	0.9	38.8	1.3	30.0	1.5	
31	ePZX	04	46	29.1			1.0	0.5	1.6	0.7	1.4	0.6	
	eZXZ		46	40.0	20.2								
31	ePZX	10	37	55.0									
	iX1Z		38	11.6			11.3	2.0X2	15.7	1.6X2	12.3	1.2X2	
	iX2E		38	20.5			10.1	1.0	16.9	0.8	10.5	0.6	
31	ePZX	10	41	06.3	25.6								
31	ePZX	10	45	45.5	25.0		0.5	0.5	0.4	0.5	0.4	0.6	
31	ePZX	10	48	01.2									
	eXZ		48	16.1			1.1	1.0X	2.2	0.6X	1.5	0.7X	
31	iPZX	12	58	22.9	08.6i		44.9	0.7	56.3	0.5	34.7	0.5	+11.6
31	iPZX	13	12	52.5									
	iXZ		12	57.1	08.3		4.7	0.6	8.8	0.5	4.5	0.6	+1.9
31	iPZX	14	05	44.5		10.5	2.5	0.7	4.7	0.5	3.5	0.5	-1.4
31	ePZX	15	17	14.0	54.5		0.7	0.5P	0.8	0.3S	0.7	0.6S	
31	iPZX	18	00	14.5	11.0		3.3	0.5	4.7	0.5	2.7	0.5	-1.4
31	ePZX	18	02	44.7	14.4		0.7	0.6	1.1	0.5	1.0	0.5	
31	ePZX	19	31	13.7	17.3		1.2	0.5	1.7	0.5	0.8	0.5	
31	iPZX	21	48	37.5									+4.2
	eXZ		48	51.5	19.2i		7.3	0.5	11.0	0.8	9.0	0.6	
31	iPZX	21	53	53.0	11.2		0.5	0.6	0.9	0.6	0.6	0.5	+0.7

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Date	Phase	Time(JST)			P-S		Amplitude(mm)				Period(sec)		Initial motion(mm)
		h	m	s	m	s	Z	N	E				
3	iPZX	12	36	26.1		15.2i	2.0	0.5	3.1	0.5	2.7	0.5	-1.0
3	iPZX	13	59	09.0	3	46.7i	21.3	1.9P	11.2	2.1P	10.5	1.5P	-9.3
3	iPZX	15	31	22.8	5	02.7	0.5	1.2P	0.9	0.9P	0.7	1.7P	+1.0
3	iPZX	18	30	04.0		10.5	1.5	0.4	2.3	0.5	1.3	0.5	-2.6
3	ePZX	22	40	15.9									
	iXZX		40	24.2		09.9i	0.8	0.5	1.3	0.5	0.7	0.6	
4	ePZX	01	28	15.8									
	eZXZ		28	26.3		12.5	0.8	0.4	1.2	0.3	0.9	0.5	
4	iPZX	02	41	51.3		13.0	0.7	0.3	1.9	0.3	0.8	0.4	-0.5
4	ePZX	03	48	01.2									
	iXZ		48	09.0		36.9	8.0	0.6	21.5	0.7	9.2	0.6	
4	ePZX	05	56	50.0		13.0	0.5	0.6	1.3	0.4	0.6	0.5	
4	ePZX	06	49	09.3		10.8i	2.6	0.5	3.5	0.4	3.0	0.6	
4	iPZX	08	36	58.0		09.2	0.7	0.5	1.6	0.6	1.1	0.7	+0.7
4	ePZX	08	41	05.8	1	11.7	0.8	0.6	0.7	0.7	0.9	1.0	
4	iPZ	10	17	46.7		11.3	31.5	0.5	36		22		-1.8
4	ePZX	13	25	08.7		15.1	1.1	0.6	1.9	0.5	1.1	0.5	
4	iPZX	15	46	27.5									
	eZZ		46	54.3		25.0	1.5	0.5X	2.3	0.5X	1.5	0.6X	+0.8
4	ePZX	16	07	58.9									
	eZXZ		08	16.5		20.6	0.7	0.4	0.8	0.4	0.7	0.5	
4	ePZX	20	12	17.5		10.1i	0.5	0.5	1.7	0.2	0.8	0.5	
4	eX1ZX	20	41	56.0									
	eX2ZX		42	07.0									
	eSN		42	44.7			3.8	1.0	6.6	0.6	5.1	0.8	
4	ePZX	20	48	37.4	5	50.9	4.5	1.2P	3.7	1.1P	2.9	1.1P	
4	iPZX	23	34	05.7		10.6i	0.6	0.5	1.2	0.3	0.7	0.5	+0.7

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	iPZX	07	50	19.3								
5	iXZX	08	50	22.1	44.0	0.6	0.3P	0.4	0.3P	0.2	0.6S	-0.5
5	iPZX	08	50	25.1								
5	iXZX	08	50	33.5	10.8	0.7	0.3	1.4	0.5	0.9	0.3	-0.5
5	iPZX	08	54	42.4	12.2	1.9	0.6	2.0	0.4	1.5	0.5	-0.6
5	ePZX	10	08	29.8	32.8	1.2	0.6	1.4	0.6	1.0	0.7	
5	ePZX	10	31	02.1	21.8	0.5	0.3	0.8	0.3	0.7	0.2	
5	iPZX	10	38	15.1								
	eXN	38	30.8			7.0	0.8X	9.8	1.0X	6.7	0.6X	+1.4
5	ePZX	11	07	44.6	32.5	1.3	0.6	1.6	0.6	1.1	0.5	
5	ePZX	11	52	57.2	16.9	1.3	0.5	2.4	0.3	1.8	0.5	
5	iPZX	15	50	48.2	10.4i	0.6	0.5	1.1	0.2	0.5	0.5	+0.5
5	iPZX	16	18	59.6								
	iXZ	19	08.2	10.6i	4.0	0.5	3.6	0.6	3.7	0.5		-0.8
5	iPZX	17	51	40.9	10.7	0.5	0.3	1.1	0.5	0.6	0.6	-0.9
5	iPZX	18	51	27.6								
	iXZ	51	35.3	09.5i	1.4	0.3	4.5	0.3	2.1	0.6		-1.0
5	iPZX	20	50	36.2								
	eXZX	50	46.2	12.5i	0.5	0.7	1.8	0.2	0.5	0.3		
5	iPZX	22	54	30.7	14.4i	0.8	0.3	2.0	0.3	1.1	0.5	-0.3
6	ePZX	01	06	28.0	11.3	1.6	0.8	1.9	0.2	1.6	0.4	
6	ePZX	01	19	58.8	2 40	11.7	1.1P	10.8	1.0P	6.5	1.0P	
6	iPZX	01	34	23.7								
	iXZX	34	31.0	09.4i	2.0	0.4	5.0	0.2	3.4	0.3		-3.9
6	ePZX	02	22	16.5	14.0	0.9	0.4	1.4	0.3	0.8	0.4	
6	iPZX	02	27	12.0								
	eXZX	27	18.5	09.0i	0.8	0.5	1.5	0.5	1.1	0.5		+0.5
6	iPZX	04	58	05.8								
	eXZ	58	22.1		2.2	0.7X	3.0	0.7X	2.6	0.7X		-0.4
6	iPZX	07	04	29.4	10.4i	0.9	0.5	1.2	0.5	0.8	0.2	-0.8
6	ePZX	08	20	49.1	12.6	0.7	0.4	1.0	0.5	0.9	0.3	
6	iPZ	09	28	19.4	11.2i	51.9	0.6	55.3	0.5	39.8		+3.9

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)				Initial motion(mm)	
				h	m	s	Z		
6	iPZ	10 09 06.0		08.5	51.2	0.8	57.0	36	+8.4
6	iPZX	11 20 40.2		08.8	5.0	0.8	8.6	0.6	-3.2
6	iPZX	12 21 45.8		06.3i	2.5	0.5	5.8	0.3	-9.9
6	ePZX	13 20 34.9		11.7	0.5	0.5	1.3	0.6	0.5 0.5
6	iPZX	16 05 07.1							
6	iXZ	05 13.8		08.9	4.8	0.3	11.2	0.3	6.6 0.4
6	ePZX	16 07 22.5		12.5	2.6	0.6	4.2	0.2	3.9 0.6
6	ePZX	21 45 30.6							
6	iXZ	45 41.1		12.5i	3.0	0.6	2.6	0.3	2.1 0.6
6	ePZX	22 37 01.1							
6	iXZ	37 17.9		14.2	0.7	0.5X	1.2	0.3X	0.8 0.7X
6	iPZX	22 40 02.0		11.2	1.0	0.4	1.7	0.3	0.5 0.5
6	ePZX	23 25 59.8		16.7	2.3	0.4	3.1	0.7	2.5 0.5
6	iPZX	23 46 00.5							
6	iXZ	46 09.5		11.2i	2.3	0.5	9.0	0.3	2.6 0.4
7	iPZX	05 03 49.5		09.3i	1.0	0.6	2.0	0.5	0.9 0.6
7	iPZ	08 13 28.2							+1.0
7	eXIZX	13 40.0							
7	iXZ	13 56.7			37.5	0.8X2	47.5	0.8X2	28.7 1.2X2
7	ePZX	08 17 05.5		19.7	0.8	0.9	1.3	0.7	0.7 0.5
7	ePZX	08 53 07.1		29.6	0.5	0.5	0.8	0.8	0.6 0.5
7	iPZX	09 53 10.8		10.3i	0.8	0.5	1.6	0.1	2.7 0.2
7	ePZX	10 30 27.0							+0.4
7	eXN	30 54.5			5.7	0.8X	6.0	0.9X	5.1 0.9X
7	ePZX	11 11 34.6							
7	eXN	11 41.5		10.2	1.5	0.5	3.8	0.4	1.9 0.2
7	ePZX	11 26 46.5		23.2	0.9	0.5	1.3	0.5	0.7 0.7
7	iPZX	11 38 57.1		08.9i	1.2	0.5	2.7	0.5	2.0 0.5
7	ePZX	13 36 01.2		26.3i	0.7	0.6	0.8	0.8	0.7 0.6
7	ePZX	15 21 24.3							
7	eXZ	21 33.6		10.6	2.2	0.5	4.2	0.3	1.9 1.0
7	iPZ	17 00 41.1			S0		S0		S0 -4.1
7	iPZX	19 19 03.8							
7	eXZ	19 16.0		13.0	1.5	0.5	2.4	0.3	2.1 0.6
7	ePZX	19 30 43.3							+0.2
7	iXZ	30 45.0		10.8i	0.9	0.5	1.8	0.5	0.9 0.6
7	ePZX	22 36 28.0		24.3	0.6	0.5	1.1	0.4	0.5 0.4
7	iPZX	23 07 50.1		11.7i	0.9	0.4	2.1	0.3	1.3 0.5
8	iPZX	01 00 31.2		08.6	1.0	0.5	1.4	0.5	0.8 0.5
8	ePZX	01 57 56.4		13.6	3.4	0.6	4.1	0.2	2.5 0.8
8	ePZX	02 15 24.8							
8	eXZ	16 10.0			1.2	0.6X	1.6	0.8X	1.2 1.0X
8	iPZX	03 57 32.1		11.0	0.7	0.5	1.8	0.6	0.9 0.5
8	iPZX	04 12 31.4							
8	iXZ	12 38.2		08.6	0.9	0.3	1.3	1.3	1.4 0.2
8	iPZX	04 55 04.5							+0.3
8	eXZ	55 11.1		09.1i	0.7	0.6	1.6	0.3	1.0 0.2
8	iPZX	06 06 35.9							+0.7
8	iXZ	06 42.6		09.0i	9.2	0.3	12.3	0.5	10.5 0.3
8	iPZX	07 42 15.6		10.4i	0.6	0.5	1.5	0.4	0.7 0.5
8	iPZX	09 17 10.6		10.9i	0.7	0.4	1.3	0.5	0.6 0.4
8	ePZX	09 38 01.6							+0.1
8	iXZ	38 04.1							
8	iX2ZX	38 50.3		54.7i	2.1	0.5	5.4	0.3	2.4 0.6
8	iPZX	10 35 22.0							
8	iXZ	35 25.7		16.3	1.1	0.4	1.6	0.2	1.2 0.2
8	ePZX	11 26 02.0		13.3	0.7	0.6	2.0	0.5	1.1 0.5
8	ePZX	13 40 10.0		14.0	0.6	0.5	0.9	0.3	0.5 0.4
8	iPZX	13 45 14.4		08.0i	0.7	0.1	1.4	0.4	0.9 0.5
8	ePZX	13 56 35.1		1 03.4	38.7	1.1	34.7	0.9	32.8 0.9
8	ePZX	16 17 28.1		09.5	0.7	0.5	1.2	0.3	0.7 0.6
8	iPZX	18 29 54.5							
8	eXZ	30 01.0		03.5i	0.8	0.2	2.1	0.3	1.8 0.2
8	iPZX	18 36 52.5		10.3	8.2	0.5	9.5	1.2	8.4 0.7
8	ePZX	19 48 58.5							-2.1
8	iXZ	49 01.6							
8	iX2Z	49 37.0		40.6	11.3	0.6	15.2	0.5	10.0 0.5

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)					Initial motion(mm)	
			h	m	s	Z	N	E		
8	iPZX	19 56 48.5		09.3i	1.8	0.4	4.6	0.4	2.1 0.2	+0.6
8	iXZ	56 55.9		46.1	2.4	0.8	3.0	1.3	2.9 1.2	
8	ePZX	20 31 38.6								
8	iPZX	22 08 13.5		09.1	0.9	0.5	4.1	0.3	1.8 0.3	+0.7
9	iXZ	08 20.7								
9	iPZX	01 54 50.9		08.1	15.3	0.9	15.0	0.6	11.4 0.7	+3.4
9	ePZX	03 09 00.0								
9	eXZ	09 07.3		09.1	2.4	0.7	4.9	0.5	4.0 0.6	
9	ePZX	04 17 20.6								
9	eXZ	17 31.0		14.1	0.9	0.5	1.6	0.5	0.8 0.5	
9	ePZX	06 07 32.7		11.4i	1.3	0.5	2.0	0.5	1.4 0.6	
9	iPZX	07 23 22.8		28.2	1.5	0.5	3.0	0.8	1.3 0.5	-0.8
9	ePZX	09 58 32.5		13.2i	0.6	0.3	1.7	0.1	0.9 0.1	
9	ePZX	10 48 19.3								
9	eXZ	48 52			4.8	0.9X	5.2	0.9X	4.1 0.9X	
9	cPZX	12 04 01.0</td								

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)			Initial motion(mm)
				h	m	s	
11	ePZX	19 37 21.3					
	eXZX	37 26.4	03.5	0.5 0.5	0.6 0.3	0.9 0.5	
11	ePZX	21 42 54.4		0.7 0.6P	0.4 0.8P	0.3 0.9P	
11	iPZX	22 33 59.7					
	iXZ	34 06.8	09.2i	1.2 0.3	2.2 0.6	2.1 0.4	-1.2
11	iPZ	22 39 04.0	13.6	49 0.7	76	SO	+2.9
11	ePZX	22 56 00.8	13.0i	0.6 0.4	1.4 0.3	0.6 0.6	
12	ePZX	00 15 29.0					
	eX1Z	15 40					
	eX2E	15 51.3		4.2 1.2X2	4.5 1.1X2	4.0 1.3X2	
12	ePZX	01 33 41.5	10.6	2.3 0.5	3.0 0.5	1.7 0.7	
12	ePZX	02 24 55.2	34.4	1.7 0.5	1.7 0.5	1.2 0.9	
12	iPZX	03 09 12.9					
	eXZX	09 21.2	10.7i	0.6 0.7	1.6 0.4	1.0 0.4	-1.4
12	ePZX	04 03 22.0	21.7	2.0 1.1	1.7 1.2	2.2 1.2	
12	iPZX	04 24 01.8	34.7	0.9 0.6	1.4 0.7	1.1 0.5	-0.4
12	eX/X	05 08 42.2		2.6 1.3X	1.4 1.0X	1.2 1.5X	
12	iPZX	05 38 30.6					
	iXZX	38 39.5	10.9i	0.7 0.5	3.1 0.2	1.3 0.2	+0.6
12	iPZX	06 37 30.0					
	iXZX	37 37.5	09.8	0.7 0.7	1.5 0.2	0.7 0.1	+0.7
12	ePZX	07 08 34.8	13.1	0.7 0.3	0.9 0.3	1.3 0.4	
12	ePZX	07 50 22.0	22.4	5.2 1.1	5.2 0.9	4.5 0.9	
12	ePZX	08 36 58.1	22.4	0.7 1.1	0.9 0.8	0.8 0.8	
12	ePZX	11 40 32.1					
	eXE	40 57.5		11.1 0.8X	9.0 1.0X	7.9 1.2X	
12	ePZX	13 10 23.0					
	eXE	10 55		0.7 0.7X	1.0 0.7X	0.8 0.7X	
12	ePZX	19 34 00.5	09.6	1.5 0.7	2.5 0.2	2.0 0.3	
12	iPZX	22 51 46.6		1.3 0.8P	1.0 1.0P	0.5 0.7P	-2.0
13	ePZX	05 05 03.6					
	eXN	05 25.3		7.0 0.5X	9.0 0.5X	5.7 0.6X	
13	iPZ	05 32 03.5		SO	SO	SO	-SO
13	iPZX	05 58 03.3	10.8	32.9 1.0	42	38 0.8	-6.0
13	ePZX	08 17 09.2	45.3	2.4 0.4	4.5 0.4	2.5 0.7	
13	iPZX	08 29 14.1	10.5	1.0 0.5	2.1 0.5	1.1 0.6	-0.6
13	ePZX	08 56 49.0					
	iXZ	56 59.0	12.2	0.6 0.5	1.4 0.2	0.6 0.4	
13	iPZX	09 46 03.3	07.2i	4.1 0.6	9.3 0.3	6.8 0.3	+2.0
13	ePZX	11 35 56.3					
	eXZX	36 04.9	11.3	0.6 0.5	1.8 0.4	0.5 0.6	
13	iPZX	12 00 50.5		1.2 1.3P	0.7 0.7P	0.5 1.5P	+1.6
13	ePZX	12 30 30.8					
	eXZX	30 38.6	09.8i	0.8 0.5	1.3 0.4	1.0 0.2	
13	ePZX	12 47 13.7	11.3i	0.7 0.6	0.9 0.5	1.0 0.5	-0.5
13	iPZX	13 49 59.6	11.2i	0.5 0.4	1.3 0.5	0.6 0.5	+0.4
13	ePZX	14 16 16.8					
	eXN	16 25.5		2.1 0.5X	3.8 0.5X	2.5 0.6X	
13	ePZX	16 45 24.2					
	iXN	45 47.8		1.3 0.5X	2.4 0.8X	1.3 0.6X	
13	iPZX	17 36 40.3	12.2	1.3 0.5	1.6 0.2	1.4 0.2	+0.6
13	ePZX	17 48 57.4					
	eXN	49 20.3		0.8 0.5X	1.5 0.5X	1.1 0.7X	
13	ePZX	18 07 08.5	09.2i	1.4 0.5	2.4 0.2	1.9 0.2	
13	ePZX	19 51 42.7	13.3i	0.5 0.5	0.8 0.2	0.4 0.6	
13	iPZX	21 20 12.4					
	iXZX	20 21.9	11.7i	0.6 0.3	2.2 0.3	1.1 0.2	-0.8
13	ePZX	21 21 50.1					
	iXZ	22 01.7	12.4	0.9 0.3	2.9 0.2	1.6 0.3	
13	ePZX	21 29 18.1					
	eX1N	29 52.2					
	eX2N	30 09.3		0.6 0.6X2	1.0 0.5X2	0.8 0.7X2	
13	ePZX	23 02 28.9					
	eXE	02 52.5		2.6 1.5X	3.8 0.8X	2.5 1.1X	
13	ePZX	23 13 36.8					
	eXE	14 03.7		2.0 0.5X	3.1 0.8X	2.7 0.6X	
13	ePZX	23 16 36.4					
	iXZX	16 57.0		0.5 0.5X	0.8 0.3X	0.6 0.5X	

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)			Initial motion(mm)		
				h	m	s			
14	iPZX	02 11 36.3		09.8	1.4	0.4	2.4 0.3	1.5 0.5	-1.0
14	iPZX	04 34 30.6		09.9i	0.8	0.4	1.7 0.2	0.5 0.7	-0.6
14	iPZX	06 44 07.0		11.3	0.7	0.6	1.0 0.3	0.8 0.5	-0.3
14	iPZX	07 26 22.3		10.7	15.3	0.7	17.4 0.5	17.5 0.5	-6.8
14	iPZX	09 04 28.1		10.1	1.4	0.6	1.8 0.4	1.3 0.6	+1.1
14	iPZX	10 17 48.7	2	13.6	1.6	0.5P	1.2 0.6P	1.0 0.5P	
14	ePZX	14 37 46.2							
	eXZX	38 17.5							
14	iPZX	16 43 59.5		15.7	1.1	0.6	1.7 0.9	1.3 0.5	-0.6
14	iPZX	17 07 28.1		10.9	1.1	0.5	2.1 0.3	1.0 0.5	+0.8
14	iPZX	19 04 40.0							
	eXE	04 55.7							
14	iPZX	20 43 30.8		27.8	1.2	0.6	1.9 0.3	1.2 0.6	-2.8
14	iPZX	23 31 14.2		15.6	8.3	0.4	9.8 0.6	6.0 0.4	-2.4
15	iPZX	00 35 35.0		10.4i	0.8	0.5	1.1 0.6	0.7 0.4	+0.4
15	ePZX	05 08 32.0							
	iXZX	08 41.0							
15	iPZX	05 12 33.7		10.9	0.6	0.4	1.9 0.4	0.9 0.2	
15	iPZX	05 33 10.1		12.8	3.4	0.6	5.3 0.6	3.3 0.6	-2.0
15	iPZX	05 34 34.8		13.6i	2.2	0.6	4.2 0.5	2.9 0.3	-4.6
15	ePZX	07 22 48.3							
	iX1Z	22 54.0							
	ePPZX	24 41	</						

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)		
			h	m	s	m	s	Z	N	E	
17	ePZX	00 46 24.7				40.6		2.5 0.8X	4.3 0.8X	3.5 1.0X	
17	iPZX	04 53 15.5				13.0i		13.1 0.5	11.4 0.4	10.0 0.5	-1.5
	iXZ	53 26.3									
17	ePZX	05 52 39.0				29.6		0.6 0.7	0.9 0.5	0.5 0.5	
17	iPZX	06 33 20.9				11.6		1.5 0.4	1.8 0.2	1.2 0.5	-1.0
17	ePZX	07 24 54.3									
	eXZ	25 01.6				0.6 0.5X		0.8 0.6X	0.5 0.5X		
17	ePZX	08 00 56.2				11.1		0.7 0.5	1.6 0.5	0.7 0.3	
17	iPZX	08 22 33.4									
	eXZX	22 39.0				09.4i		9.3 0.7	11.4 0.4	9.5 0.4	-9.4
17	iPZX	08 31 30.3				10.1		1.1	16.2 0.8	15.0	+3.2
17	iPZX	09 53 37.2									
	eXN	53 48.3				12.0		1.5X	14.8 0.6X	7.8 2.0X	+3.8
17	ePZX	10 54 16.0									
	eXN	54 37.5				0.5 0.4X		0.8 0.7X	0.7 0.6X		
17	ePZX	11 27 05.0									
	iXZX	27 13.5				10.5i		0.9 0.6	2.7 0.3	1.2 0.2	
17	iPZ	11 42 59.6				10.6		14.5 0.5	20	16.1 0.7	+3.3
17	iPZ	11 50 31.9				8.3		1.0	10.4 0.7	4.0 0.5	-2.9
17	iPZX	13 08 38.2				1.2 0.6P		1.1 0.8P	0.8 1.1P		+1.4
17	ePZX	13 40 34.6				1.5 51.6		1.8 1.0	2.4 0.9	2.5 1.1	
17	iPZX	15 29 32.7				11.8i		2.7 0.5	3.7 0.3	2.7 0.5	+1.8
17	iPZX	17 38 03.3									
	iXZX	38 09.6				09.2i		1.2 0.5	2.0 0.4	2.8 0.1	-0.6
**	ePZX	17 53 24.1				12.9		0.5 0.3	1.0 0.1	0.4 0.5	
17	ePZX	18 42 49.1									
	iXZX	42 55.9				08.6i		1.4 0.5	1.9 0.3	2.0 0.5	
17	iPZX	19 30 18.1				11.2		1.8 0.5	2.7 0.5	1.6 0.6	+1.4
17	ePZX	19 42 35.6				09.7		0.8 0.4	1.7 0.2	1.1 0.5	
17	iPZX	19 53 35.9				13.6		1.8 0.5	2.6 0.6	1.5 0.6	+1.8
17	iPZX	20 13 38.0				36.5i		2.0 0.5	3.9 0.7	2.7 0.7	+1.4
17	iPZX	21 37 10.3									
	eXZX	37 18.7				10.8i		0.8 0.5	1.6 0.4	0.7 0.5	-0.3
17	ePZX	23 07 55.1				11.3i		0.7 0.5	1.7 0.5	0.9 0.5	
17	iPZX	23 55 12.0				11.4i		0.5 0.3	1.1 0.4	0.6 0.7	-0.4
18	ePZX	01 28 14.7				09.4		0.8 0.5	1.1 0.5	1.1 0.3	
18	ePZX	01 35 39.2				25.2		0.7 0.5	1.0 0.4	0.4 0.4	
18	iPZX	06 38 15.3									
	iXZX	38 24.3				11.6i		1.1 0.4	2.4 0.2	1.2 0.3	+0.7
18	iPZX	07 23 14.1				10.2		3.9 0.7	5.9 0.9	3.6 0.5	-1.7
18	ePZX	10 19 40.0									
	eXN	20 02				0.5 0.5X		0.7 0.7X	0.5 1.0X		
18	iPZX	12 44 00.2									
	iXZX	44 07.0				08.9i		0.6 0.5	1.1 0.2	1.0 0.2	+0.4
18	iPZX	13 28 26.9				08.6		1.7 0.3	4.3 0.3	4.5 0.2	-5.2
18	iPZX	15 56 49.9				07.8		5.1 0.6	6.0	5.2	+6.8
18	ePZX	16 14 33.7				1 51.0		1.5 1.3P	1.4 1.2P	1.0 1.1P	
18	ePZX	18 51 37.4									
	eXZX	51 44.4				10.2i		0.7 0.4	0.9 0.6	0.5 0.6	
18	iPZX	19 57 01.9									
	eXN	57 08.8				2.1 0.5P		2.8 0.6P	1.7 0.5P		-0.9
18	ePZX	20 04 27.5				32.1		0.5 0.4	1.2 0.7	0.6 0.5	
18	ePZX	21 29 19.7				17.3		1.7 0.6	3.6 0.9	1.9 0.8	
18	ePZX	21 38 55.1				15.7i		0.5 0.3	0.8 0.6	0.4 0.4	
18	iPZX	22 06 45.3				11.0		1.1 0.6	2.4 0.3	1.1 0.5	
19	iPZX	02 43 39.4									
19	iPZX	03 47 08.0				0.6 0.6P		0.4 0.8P	0.2 0.5P		-1.0
	iXZ	47 08.7				6 58.2		17.7 1.0P	11.7 1.4P	7.6 1.0P	+1.2
19	ePZX	04 04 51.4									
	eLrZX	16 53.0				6 24.1		2.3 1.3P	1.8 0.9P	1.1 1.1P	
19	ePZX	06 35 17.7				24.7		2.3 0.5	4.0 0.8	2.3 0.6	
19	iPZX	16 05 40.6				16.3i		3.4 0.6	4.4 0.8	3.5 0.6	-1.2
19	iPZX	16 37 59.8									
	iXZX	38 08.1						1.9 0.6X	3.3 0.3X	1.7 0.6X	(+)
** Addendum											
17	ePZX	18 20 25.5				12.6		0.5 0.4	1.0 0.2	0.5 0.5	

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)		
			h	m	s	m	s	Z	N	E	
19	iPZX	18 43 33.7				14.4		13.8 0.5	15.7 0.7	12.5 0.4	+2.1
19	iPZX	20 00 18.5				13.7i		0.5 0.6	1.0 0.2	0.8 0.4	-0.6
19	ePZX	20 39 22.7				20.8		1.0 1.5X	1.7 0.3S	1.6 0.5S	
20	iPZX	03 34 46.4				08.2i		0.7 0.4	1.6 0.6	1.5 0.5	(-)
20	ePZX	03 57 37.2				09.3		0.6 0.5	0.7 0.7	0.9 0.6	
20	ePZX	05 24 45.4									

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)	
			h	m	s	mm	ss	Z		
24	iPZX	18 25 33.8			10.1	2.3	0.6	2.6 0.3	2.7 0.5	-2.5
24	ePZX	22 29 19.9				2.1	0.9X	2.6 0.8X	2.5 0.7X	
24	iPZX	23 19 19.8								
	eZXZ	19 26.7	09.6i	0.8	0.5	2.5	0.3	1.1	0.4	-2.5
25	ePZX	00 14 22.2								
	eXE	14 37.5				1.9	0.6X	1.6	0.6X	
25	ePZX	01 34 30.5	14.3	0.7	0.7	1.0	0.5	0.6	0.5	
25	iPZX	02 13 54.9	06.3	1.2	0.6P	2.5	0.2S	1.0	0.8S	-3.8
25	ePZX	02 39 48.2								
	eZXZ	40 18.8				0.5	0.8X	0.7	0.7X	
25	ePZX	02 58 28.6								
	eXE	58 58.7				1.0	1.3X	0.8	0.9X	
25	iPZX	08 21 55.1	11.0	1.4	0.7	2.2	0.6	1.5	0.7	-0.4
25	iPZX	08 53 29.4	11.8i	1.4	0.5	2.2	0.8	1.6	0.5	-0.4
25	ePZX	09 02 15.8	20.7	1.5	0.5	1.8	0.4	1.7	0.5	
25	iPZX	09 40 54.8	08.2	0.5	0.2P	1.3	0.2S	0.4	0.2S	+0.9
25	iPZ	18 08 06.0		SO		SO		SO		
25	ePZX	18 14 24.5								
	iXZ	14 44.3		>66		SO		SO		
25	ePZX	19 05 55.9								
	eXE	06 17.8				6.0	1.9X	6.7	1.4X	
25	ePZX	20 08 41.9								
	eZX	08 59.5				1.4	0.5X	1.6	0.8X	
25	iPZX	20 59 05.2	12.4	4.5	0.6	6.7	0.5	4.1	0.6	+0.7
25	ePZX	21 32 52.4								
	eZX	33 23.0				2.9	1.0X	3.6	1.3X	
25	ePZX	22 31 13.5				0.5	1.1P	0.6	1.1P	
26	ePZX	01 48 12.7								
	iZXZ	48 24.6	13.8	0.7	0.6	1.5	0.7	1.2	0.8	
26	ePZX	03 59 22.7								
	eXE	59 45.0				3.7	1.0X	3.3	1.0X	
26	ePZX	08 03 30.2								
	eXE	04 08				1.4	1.0X	1.6	0.7X	
26	ePZX	08 06 35.5								
	eXE	07 25				2.0	1.0X	1.7	0.5X	
26	ePZX	10 07 53.2								
	iXIZX	08 02.0								
26	eX2E	08 15				3.5	1.0X2	3.7	0.7X2	
26	ePZX	10 11 25.4								
	iXIZX	11 33.6								
	eX2E	11 47				3.9	1.0X2	3.9	0.8X2	
26	iPZX	12 34 49.5	09.5	6.3	0.5	14		7		-8.8
26	iPZX	15 21 10.2	11.5	1.2	0.5	1.6	0.5	1.3	0.5	-0.3
26	iPZX	15 59 03.1								
	eXE	59 22				3.2	0.8X	4.0	1.0X	
26	ePZX	16 01 52.9								
	iXE	02 29.2				7.2	1.0X	9.1	0.9X	
26	ePZX	17 12 47.0	14.5	0.5	0.4	1.0	0.5	0.7	0.5	
26	ePZX	17 20 05.2	14.4	0.5	0.4	1.0	0.4	0.8	0.4	
26	iPZX	17 39 27.7								
	iXZX	39 38.0	12.3	1.7	0.5	3.2	0.3	2.4	0.2	-2.1
26	iPZX	18 10 26.0								
	eXE	10 36.6				8.7	1.1X	11.0	1.0X	
27	iPZX	03 23 19.6								
	iXZX	23 31.1	19.7	1.2	0.5	3.3	0.3	1.8	0.2	+0.6
27	ePZX	11 24 49.6								
	iXZX	24 56.9	09.4i	0.5	0.5	1.4	0.2	1.0	0.1	
27	ePZX	13 43 33.7	31.3	2.5	0.8	2.8	0.5	2.5	0.5	
27	iPZX	15 08 07.2	06.3	1.2	0.6	2.7	0.5	1.8	0.5	+2.6
27	ePZX	15 31 18.6								
	iXZX	31 32.0	14.9i	1.2	0.4	1.5	0.5	0.9	0.5	
27	iPZX	19 13 48.1	10.9i	5.1	0.4	5.5	0.5	5.0	0.5	+2.0
27	iPZX	19 46 59.9	13.1	2.4	0.5	3.3	0.6	2.4	0.6	-1.9
27	iPZ	22 02 06.6	10.4i	17.3	0.5	24.5	0.6	20.6	0.7	-8.3
27	ePZX	22 44 54.6	46.4	1.0	0.5	1.8	0.5	1.2	0.6	

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)	
			h	m	s	m	s	Z		
28	ePZX	01 46 20.1				10.7	0.7	0.5	1.4 0.2	0.9 0.5
28	eZXZ	46 29.1								
28	ePZX	07 41 27.8				13.2i	0.7	0.3	1.7 0.3	0.9 0.5
28	iPZX	08 02 31.8				10.3i	0.9	0.6	1.1 0.5	0.9 0.2
28	ePN	11 57 01.2				1 01.3	1.1	0.3	3.4 0.3	2.0 0.6
28	iPZX	14 06 09.1				20.5i	0.9	0.4	1.9 0.4	0.9 0.5
28	ePZX	16 23 35.2				09.1i	2.8	0.7	2.8 0.5	1.5 0.5
28	iPZX	16 32 18.2				12.3	1.1	0.4	2.0 0.2	0.8 0.4
28	ePZX	21 37 40.1				10.8	0.7	0.5	1.1 0.4	1.0 0.5
28	iPZX	22 45 34.3				13.7i	0.9	0.6	2.3 0.3	1.1 0.4
29	ePZX	00 38 24.0				29.0	0.9	0.5	1.2 0.6	0.8 0.6
29	ePZX	05 43 06.6				18.9	0.9	0.5	2.2 0.4	1.3 0.5
29	ePZX	05 48 44.1					1.1	1.8P	1.2 1.1P	1.0 0.9P
29	ePZX	08 21 04.7				11.4	1.4	0.3	1.8 0.3	1.3 0.2
29	iPZX	11 48 10.8				1 05.3	0.9	0.3P	1.5 0.6S</	

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Date	Phase	Time(JST)	P-S		Amplitude(mm)				Period(sec)		Initial motion(mm)
			h	m	s	m	s	Z	N	E	
1	ePZX	00 18 32.7				17.8		0.8 0.6	1.0 0.3	1.0 0.5	-0.4
1	ePZX	01 46 08.3				31		8.7 1.3	9.4 1.0	10.4 1.2	
1	iPZX	02 49 02.9				09.4i		0.8 0.6	1.2 0.3	1.5 0.3	
1	ePZX	02 54 41.1				28.6		0.6 1.3	0.9 0.9	0.8 0.7	
1	ePZX	03 07 23.3				34.7		1.5 0.6	2.1 1.0	1.4 1.0	
1	ePZX	06 36 14.1				09.4i		0.5 0.7	0.9 0.6	1.0 0.5	
1	ePZX	09 07 21.0				23.8i		8.4 0.6	7.0 1.1	5.9 0.5	
1	ePZX	09 47 56.5				13.4i		1.2 0.4	2.1 0.6	1.5 0.6	-0.6
1	ePZX	15 08 02.5				09.8i		0.5 0.5	1.1 0.4	1.0 0.5	
1	iPZX	16 38 07.5						1.0 1.1P	1.2 1.7P	1.1 2.1P	
1	ePZX	18 25 05.8				1 00.7		14.5 1.0	23.1 1.0	16.7 1.5	
1	iPZX	20 22 03.3									+0.6
1	iXZX	22 10.0				08.6i		1.9 0.4	3.5 0.3	3.3 0.2	+0.7
1	iPZ	20 42 56.2				10.9i		12.7 0.7	22.5 0.5	19.8 0.7	
2	iPZX	00 25 34.5				08.7i		2.5 0.5	4.6 0.6	2.3 0.7	+1.4
2	iPZX	04 44 55.0									-1.2
2	iXZX	45 03.0				10.3i		3.6 0.6	5.7 0.2	5.2 0.5	
2	ePZX	05 56 54.6				12.0		1.0 0.5	1.4 0.3	1.0 0.3	
2	ePZX	08 58 54.1				10.3i		0.5 0.5	1.1 0.2	0.5 0.4	
2	ePZX	10 07 03.2				32.4		1.8 0.8	2.0 0.8	1.3 0.7	
2	ePZX	11 19 20.1				1 20.8		2.2 0.7	2.8 0.7	1.9 1.3	
2	ePZX	12 59 19.1				09.1		1.1 0.4	2.3 0.3	1.4 0.5	-0.8
2	iPZX	18 02 24.2				10.5		0.5 0.5	1.2 0.5	0.9 0.4	
2	ePZX	18 18 32.3									
2	iXZX	18 34.7				17.8		2.5 0.5	3.5 0.8	2.5 0.5	+0.8
2	iPZX	20 06 57.5				12.6i		0.7 0.6	1.2 0.3	0.7 0.3	+1.3
2	iPZX	22 47 35.5				12.0		3.0 0.5	3.3 0.6	3.5 0.7	
2	ePZX	22 56 46.7				17.3i		0.8 0.5	1.2 0.8	1.0 0.5	
3	ePZX	00 25 32.7				09.4		0.8 0.5	1.0 0.5	0.8 0.3	+1.5
3	iPZX	02 19 18.5				06.6		1.4 0.4	2.4 0.4	2.0 0.4	+2.0
3	iPZX	03 22 41.9				16.7i		19.7 0.5	23.0 0.6	19.3 0.6	+0.4
3	iPZX	07 52 08.2				12.0i		0.6 0.5	0.9 0.5	0.4 0.5	
3	ePZX	09 58 42.3									
3	iXZX	58 44.5				1 00.3		2.5 0.8	3.3 0.6	3.2 0.8	+1.3
3	iXZX	58 53.1				24			28	28 0.5	
3	iPZ	13 46 42.1				08.9		1.3 0.9	1.6 0.9	1.3 0.7	
3	ePZX	14 12 39.0				1 08.5		S0	S0	S0	-1.4
3	iPZ	14 24 02.8									
3	ePZX	14 43 55.3				51.4		0.9 0.4	2.0 0.8	1.0 0.7	-0.4
3	iPZX	16 02 40.0				50.4		28.4 1.0	26.0 0.9	41.6 1.1	
3	ePZX	16 51 20.5				17.9		0.8 0.6	1.6 0.5	1.0 0.6	
3	ePZX	16 56 46.0				25.0		2.3 0.7	3.0 1.0	1.7 0.8	
3	ePZX	19 44 20.1				14.1i		0.9 0.4	1.5 0.4	1.1 0.2	
3	iPZ	22 13 45.8									-1.8
3	iXZ	13 52.6				09.2i		2.9 0.6	4.3 0.3	4.0 0.4	
**											-1.4
5	iPZX	02 11 23.3				10.3i		0.8 0.6	0.9 0.6	0.8 0.5	
5	ePZX	07 54 30.6				09.9		0.5 0.5	1.3 0.4	0.5 0.6	
5	ePZX	13 14 11.0						0.8 0.7P	0.5 0.7P	0.6 0.7P	-4.6
5	iPZ	13 35 35.0				06.9i		6.1 0.4	13.9 0.3	7.0 0.4	-2.3
5	iXZX	13 47 38.5						0.7 0.5X	0.3 0.7X	0.3 0.6X	-1.2
5	iPZX	15 00 55.8				09.7		0.7 0.5	1.7 0.7	0.7 0.4	
5	ePZX	15 19 36.9				13.6i		0.6 0.4	1.2 0.6	0.7 0.5	
5	ePZX	18 05 56.1				27.4		1.7 0.6	2.0 0.5	1.7 0.6	
5	ePZX	19 23 05.3				1 29.4		1.9 0.8	3.0 0.6	2.3 0.9	
5	iPZ	20 36 20.6						S0	S0	S0	
5	iPZ	20 55 36.7				17.3		24.9 0.6	30.0 0.7	29.4 0.5	+6.8
5	iPZ										+0.7
6	iPZ	02 59 48.0				08.6i		5.4 0.4	17.3 0.3	13.0 0.2	
6	iPZX	04 59 27.7									-1.5
6	iXZX	59 34.2				08.8i		3.6 0.4	7.3 0.3	6.3 0.3	
6	iPZX	06 47 25.5									-2.0
6	iXZX	47 32.3				09.0i		1.1 0.3	3.3 0.2	1.9 0.4	-0.9
6	iPZX	08 16 48.4				05.7		0.6 0.6	1.2 0.7	0.6 0.4	

** Observation was interrupted
from 22h 36m, 3rd to 22h 40m, 4th.

Date	Phase	Time(JST)			P-S		Amplitude(mm) · Period(sec)						Initial motion(mm)
		h	m	s	m	s	Z	N	E	N	E		
6	ePZX	14	28	54.6	40.5		0.7	0.5	1.1	0.7	0.8	0.5	
6	ePZX	16	56	51.0	40.7		4.9	0.5	10.8	0.6	4.5	0.2	
6	ePZX	17	07	19.9	11.6		0.5	0.5	0.9	0.3	0.5	0.4	
6	iPZX	17	13	34.0									+1.5
	iXZX	13	36.0		17.8i		0.9	0.3	2.4	0.3	1.4	0.4	
6	ePZX	20	49	36.4	15.5		0.8	0.8	1.5	0.7	0.8	0.7	
6	ePZX	23	33	17.5	1 00.1		0.9	0.6	1.4	0.6	1.6	0.6	
							1.4	0.9P	1.1	0.8P	0.9	1.1P	
7	ePZX	04	26	07.4			1.9	0.5	3.2	0.4	2.3	0.4	-0.4
7	iPZX	04	43	02.6	09.4								
7	ePZX	05	22	42.0			0.5	0.5X	0.6	0.7X	0.5	0.5X	
	eXN	22	51.5				1.3	0.5	2.5	0.3	2.5	0.2	+0.9
7	iPZX	06	33	15.3	08.8i		4.5	0.8	8.4	0.8	6.5	0.8	
7	ePZX	10	47	57.4	49.1		0.5	0.8	0.9	0.4	0.6	0.5	
7	ePZX	12	12	10.7	09.4		0.7	0.4	1.1	0.3	0.7	0.5	+0.4
7	iPZX	14	13	50.4	12.4i		0.9	0.5	1.3	0.3	1.2	0.7	
7	ePZX	18	26	50.8	24.3								
7	ePZX	18	55	09.4			1.9	0.4	1.4	0.2			
	iXZX	55	16.2	08.6			0.8	0.7	4.0	0.4	2.2	0.5	
7	ePZX	22	42	28.2	13.4		3.0	0.5					
8	ePZX	00	53	30.1	12.6i		0.9	0.3P	2.0	0.5S	0.8	0.6S	
8	ePZX	02	14	26.7	25.3		5.5	0.5	6.4	0.9	6.3	0.5	
8	iPZX	04	26	33.8	09.5i		1.9	0.6	3.3	0.4	2.2	0.2	-0.6
8	ePZX	11	03	20.9	45.1		35.8	0.9	51.2		34.0	1.1	
8	iPZX	14	08	09.3	06.6i		1.6	0.8	3.3	0.3	1.6	0.3	+1.0
8	ePZX	16	46	02.3									
	eXN	46	31.0	45.8			4.1	0.7	5.4	0.7	3.5	0.9	
8	iPZX	17	45	24.6			10.5	0.6	14.7	0.7	7.4	1.0	+1.9
	iXZX	45	34.4	28.5			3.8	0.5	6.3	0.4	5.5	0.7	-1.4
8	iPZX	21	18	19.1	09.8		0.7	0.3	1.8	0.3	1.2	0.2	-3.0
8	iPZX	22	19	57.7	07.2		5.8	0.6	7.2	0.8	6.6	0.5	-2.9
8	iPZX	23	30	18.8	15.7i								
9	ePZX	00	20	44.1			2.4	1.6P	1.3	1.1P	1.3	1.3P	
9	iPZX	04	07	41.4	09.7		0.8	0.4	1.6	0.3	0.6	0.3	-0.6
9	ePZX	04	52	13.6									
	esPZX	52	49.5				0.6	1.8sP	0.7	0.9sP	0.2	2.0sP	
9	ePZX	05	11	37.2	1 21.3		24.0	0.8	31.7	1.4	24.0	1.5	
9	iPZX	08	16	35.0	07.8i		13		>19	0.5	19		+ so
9	iPZX	09	21	37.2	11.0		1.4	0.6	2.1	0.7	1.7	0.6	-1.0
9	ePZX	09	45	17.7	10.7		1.8	0.4	2.3	0.2	1.4	0.2	
9	iPZX	10	12	25.2	08.8		1.4	0.4	2.5	0.2	1.1	0.3	+1.4
9	iPZX	10	27	14.8	09.6i		2.2	0.8	4.8	0.4	2.5	0.5	+2.4
9	ePZX	10	47	31.7	10.4i		0.7	0.7	1.2	0.4	0.9	0.5	
9	iPZX	11	41	01.4	10.0i		0.9	0.6	2.0	0.6	1.2	0.5	+0.7
9	iPZX	12	58	55.5	10.5		2.1	0.6	3.7	0.3	1.8	0.6	-2.0
9	ePZX	13	13	58.7	13.6		2.6	0.6	2.9	0.5	1.8	0.7	
9	ePZX	13	19	41.3	09.0i		1.7	0.6	1.5	0.7	1.3	0.5	
9	iPZX	14	11	52.8	09.4		0.9	0.4	2.0	0.4	1.8	0.2	-1.4
9	ePZX	16	15	48.2	50.5		5.4	0.7	9.5	0.6	7.2	0.9	
9	eSE	16	18	04.0			2.0	1.0	3.5	0.6	2.9	0.8	
9	ePZX	16	19	58.3	41.2		0.7	1.2	1.1	1.3	1.1	1.1	
9	ePZX	20	57	39.5	12.0		0.6	0.5	1.4	0.2	0.8	0.3	
9	ePZX	21	27	57.4	16.4		0.7	0.7	1.1	0.4	0.9	0.7	
9	iPZX	22	52	47.6									-0.8
	iXZX	52	54.5	09.2i			0.8	0.3	2.2	0.3	1.4	0.3	
10	ePZX	01	24	01.5	14.0		1.0	0.7	1.3	0.3	1.1	0.4	
10	ePZX	01	47	49.3	11.7		1.5	0.6	2.2	0.4	1.5	0.6	
10	iPZX	02	08	42.8	08.7i		1.5	0.4	3.9	0.2	2.5	0.6	-1.9
10	ePZX	05	53	15.6	25.0		6.6	0.6	8.8	0.5	5.0	0.7	
10	iPZX	08	22	55.2	09.4i		0.8	0.4	2.0	0.2	1.4	0.1	+0.6
10	iPZX	09	25	05.7	13.5		1.4	0.5	1.9	0.7	1.1	1.0	-0.4
10	ePZX	10	23	24.5	37.0		1.0	0.9	1.1	1.0	0.8	0.7	
10	iPZX	13	10	37.1	08.9i		4.7	0.4	7.9	0.4	6.3	0.5	-1.0

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Initial motion(mm)		
				h	m	s	m	s	Z	N	E	
10	ePZX	13 11 51.0		08.2	0.8	0.2	1.3	0.5	1.3	0.2		
10	ePZX	15 02 35.6	1	11.3	7.8	1.1	19.3	1.2	8.8	1.2		
10	ePZX	20 12 38.8		14.0	0.6	0.6	1.0	0.4	0.7	0.5		
10	iPZX	21 11 01.0		11.1i	13.0	0.6	>15	0.6	>12	0.7	-2.0	
10	iPZX	21 28 53.7		12.5i	3.5	0.6	4.0	0.5	3.0	0.5	-0.8	
11	ePZX	01 15 25.1		21.2	0.5	0.8	0.7	0.4	0.6	0.6	+0.6	
11	iPZX	03 38 28.6		09.4i	1.3	0.5	2.2	0.4	1.4	0.3		
11	ePZX	06 16 00.5		12.0i	1.0	0.4	2.6	0.3	1.2	0.5		
11	ePZX	06 28 51.1										
11	esSZX	33 18.3			1.1	0.6P	0.5	0.8P	0.5	0.9P		
11	ePZX	07 33 13.7	11.0		0.5	0.4	0.6	0.4	0.4	0.4		
11	eZXX	09 56 41.0			2.4	0.6	3.4	0.4	2.2	0.6		
11	eSN	57 00.2			1.1	0.5	1.3	0.7	1.1	0.4		
11	ePZX	10 17 19.1	29.6		0.6	0.6	1.4	0.6	0.9	0.8		
11	ePZX	11 47 02.9	12.8								-20.0	
11	iPZX	13 36 46.5	07.5		12.8	0.5	17.2	0.4	9.8	0.4		
11	iPZX	14 41 26.0	07.3		2.8	0.6	5.2	0.3	3.6	0.3	-6.8	
11	iPZX	16 27 28.8	09.9i		4.6	0.7	14.3	0.2	8.2	0.5	-2.0	
11	iPZX	21 53 27.1	20.9		8.1	1.7	8.4	0.9	4.7	0.9	+3.6	
11	iPZX	21 59 08.4	22.2		0.9	0.7	1.0	0.7	0.7	1.0	+0.6	
12	ePZX	01 06 31.6	13.6		0.5	0.5	0.7	0.5	0.5	0.7		
12	ePZX	03 46 29.1			0.6	1.6P	0.4	1.7P	0.4	1.7P		
12	iPZX	05 26 08.4	11.1i		1.7	0.5	2.7	0.4	1.8	0.6	-0.4	
12	iPZX	05 34 03.3	08.4i		2.2	0.3	5.3	0.3	3.8	0.2	-2.4	
12	iPZX	06 02 16.1										
12	iZXX	02 25.0	11.1i		2.5	0.4	4.4	0.3	2.5	0.5	-1.7	
12	ePZX	06 20 48.1	14.3		0.6	0.4	0.8	0.5	0.6	0.5		
12	ePZX	09 15 47.1	19.4		1.4	0.5	2.5	0.2	1.7	0.5	-0.6	
12	iPZX	14 26 38.2	11.3i		1.4	0.5	1.7	0.3	1.5	0.5	-0.6	
12	iPZX	21 05 22.1										
12	iZXX	05 28.8	09.7		1.5	0.3	2.8	0.3	2.2	0.3	+2.3	
12	iPZ	21 40 37.6	14.9i		18.6	0.6	16.3	0.5	12.8	0.5	-0.8	
12	iPZ	22 37 09.0										
12	eXN	37 28.0			18.5	1.1X	18.2	1.6X	17.3	1.4X	+0.6	
13	ePZX	02 10 03.9										
13	iZXX	10 09.4	25.4		5.8	0.5	8.7	0.7	5.6	0.7		
13	iPZX	07 54 33.6										
13	ePZX	08 22 04.2										
13	ePZX	08 03 05.0	30.7		1.7	0.6	2.3	0.6	1.9	0.6	-1.4	
13	iPZX	09 53 47.5	13.3		1.8	0.4	2.4	0.5	1.5	0.4	-1.0	
13	iPZ	10 00 33.1	12.5	>54			>65				-4.7	
13	ePZX	10 53 26.9	12.8		0.5	0.6	0.9	0.2	0.5	0.6		
13	ePZX	13 59 04.0	26.7		2.5	0.6	7.3	0.7	4.5	0.6		
13	ePZX	14 07 12.7	46.6		2.3	0.9	3.3	0.8	2.9	1.0		
13	ePZX	14 47 35.3	15.7		0.5	0.5	0.8	0.4	0.3	0.5		
13	ePZX	14 49 00.1	14.2		1.3	0.5	1.7	0.4	0.8	0.5		
13	ePZX	16 40 06.6	24.6		3.5	0.4	4.4	0.7	3.7	0.6		
13	iPZX	19 03 34.8	08.8i		0.9	0.5	1.8	0.3	0.9	0.3	+0.3	
13	iPZX	20 24 46.5	12.7		0.6	0.7	0.8	0.3	0.9	0.5	+0.3	
13	ePZX	20 42 38.1	14.3		1.6	0.4	5.2	0.5	2.1	0.6		
13	iPZX	22 24 48.9	10.4		1.0	0.5	1.5	0.3	1.0	0.8	+1.2	
14	iPZX	00 26 10.5	06.8		0.6	0.6	1.0	0.6	0.7	0.5	-1.8	
14	iPZX	01 29 27.8	11.2i		1.6	0.5	2.3	0.4	1.3	0.6	+0.8	
14	iPZX	05 44 48.4										
14	iZXX	44 54.5	09.3i		0.7	0.4	2.3	0.2	1.4	0.1	-0.6	
14	ePZX	07 22 28.2	33.5		0.5	0.9	0.6	0.6	0.5	0.7		
14	ePZX	08 33 11.5	09.5i		0.8	0.6	1.7	0.3	0.8	0.3	-1.2	
14	iPZX	10 17 24.8	08.5i		13.0	0.5	14.3	0.3	15.9	0.4	+3.6	
14	iPZX	13 16 15.3	06.2i		3.7	0.5	4.8	0.5	6.7	0.5	+1.1	
14	iPZX	15 02 10.4	27.0i		0.5	0.6	1.2	0.4	0.9	0.7		
14	ePZX	16 07 35.4	10.8		0.8	0.6	1.4	0.5	0.8	0.4	+0.6	
14	iPZX	18 00 39.5	05.5i		0.6	0.3	0.3	0.4	0.3	0.5	-1.3	
14	iPZX	18 37 35.5	10.1	>25			>30		>27			
14	iPZX	19 45 03.4	09.1i		1.2	0.6	1.8	0.4	1.1	0.6	+0.4	

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Date	Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Date	Phase
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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)
			h	m	s	Z	N	E	
19	iPZX	01 00 16.7		10.2i		0.7 0.4	1.4 0.2	0.8 0.5	-2.0
19	iPZX	01 07 38.4		08.1		1.4 0.4	5.7 0.3	1.8 0.5	+5.0
19	ePZX	13 59 25.7				1.0 0.8P	0.9 0.6P	0.5 0.8P	
19	ePZX	14 24 38.2				0.9 0.7P	0.8 0.5P	0.5 0.7P	
19	ePZX	14 27 00.3		13.5		1.9 0.6	2.9 0.4	2.5 0.5	
19	iPZX	16 57 15.1		08.9i		0.8 0.4	2.3 0.2	1.5 0.2	-2.0
19	iPZX	18 06 55.3		09.1i		3.1 0.4	6.7 0.2	3.3 0.2	-7.6
19	ePZX	20 04 14.3				0.5 0.4X	0.3 0.4X	0.2 0.5X	
19	ePZX	20 24 57.9		39.8		1.1 0.6	1.7 0.7	1.2 0.7	
19	ePZX	23 29 53.2		1 24.3		1.3 0.6	2.5 0.3	1.3 0.8	
20	ePZX	00 27 44.6		08.7i		0.5 0.3	1.1 0.2	0.8 0.3	
20	ePZX	00 57 32.2				0.5 0.4X	0.6 0.5X	0.5 0.4X	
20	eZN	58 16				0.5 0.4X	0.6 0.5X	0.5 0.4X	
20	iPZX	01 53 12.0		10.8		0.9 0.4	1.5 0.3	1.0 0.6	
20	ePZX	04 13 02.0		11.6		0.5 0.6	1.5 0.2	0.6 0.5	
20	ePZX	04 47 04.5							
20	iZXX	47 05.7		26.1		0.9 0.3P	0.9 0.2S	0.8 0.3S	
20	ePZX	06 01 19.3		09.6		1.9 0.3	3.0 0.3	1.4 0.3	
20	ePZX	09 46 34.3		16.2		0.7 0.6	1.1 0.4	0.6 0.4	
20	iPZX	10 07 01.3		07.7i		16.2 0.5	22.0 0.6	16.5 0.5	-6.1
20	ePZX	10 42 35.6		09.5i		0.6 0.6	2.0 0.2	1.3 0.1	
20	ePZX	11 00 00.0		10.4i		1.6 0.6	2.5 0.6	1.4 0.5	
20	iPZX	14 28 58.3		11.9		0.6 0.6	1.1 0.4	0.7 0.3	-0.8
20	ePZX	15 18 47.3							
20	eZN	20 02.7				0.6 1.7X	0.4 1.0X	0.3 1.0X	
20	ePZX	16 22 05.0		12.0		8.3 0.6	12.9 0.5	8.4 0.7	
20	ePZX	16 32 37.3		14.3		0.6 0.7	0.9 0.5	0.5 0.4	
20	ePZX	16 35 27.4		12.6		0.8 0.3	1.1 0.2	0.9 0.4	
20	ePZX	20 24 26.6		08.2		1.1 0.4	1.8 0.5	1.0 0.5	
20	ePZX	20 25 07.8		10.3		0.6 0.5	0.9 0.3	0.8 0.5	
20	ePZX	22 54 03.5		21		48.5 1.0	>70	>72	
20	ePZX	23 32 11.2							
	eZX	32 45				0.9 0.7X	1.4 0.8X	0.8 0.6X	
21	ePZX	07 27 11.5				1.4 1.4P	1.3 1.2X	1.4 1.7X	
21	ePZX	09 04 18.5		10.9i		0.6 0.5	0.7 0.4	0.7 0.4	
21	ePZX	10 48 23.1		20.9		11.5 1.0	16.4 0.9	12.3 1.1	
21	ePZX	11 35 52.9		12.0		0.5 0.5	0.8 0.3	0.7 0.5	
21	ePZX	13 56 27.9		10.1		6.1 0.5	12.7 0.4	6.8 0.6	+6.7
21	iPZX	17 23 58.5		08.6		3.3 0.5	4.5 0.5		
21	ePZX	19 54 17.8		10.5		1.0 0.6	2.8 0.2	1.0 0.2	
21	ePZX	21 00 25.2		13.4i		0.5 0.4	1.6 0.3	0.8 0.4	
21	ePZX	21 29 58.4		1 19.1		1.1 0.9	3.0 0.9	2.2 0.9	
21	iPN	22 06 10.6				SO	SO	SO	+50
21	ePN	22 16 54.1		05.9i		1.2 0.2	4.4 0.2	2.3 0.2	
21	iSN	22 32 42.5				0.8 0.7	1.6 0.2	0.6 0.2	
21	iSN	22 33 07.9				0.6 0.6	1.9 0.2	0.8 0.5	
21	ePN	23 25 38.6		21.4		2.0 0.5	1.0 1.0	0.9 0.5	
22	ePN	01 26 35.1		05.9i		2.0 0.6	4.2 0.2	3.8 0.3	
22	ePN	02 16 52.9		05.1i		0.8 0.7	2.5 0.2	1.0 0.3	
22	ePN	02 58 40.1		07.6		1.5 0.5	3.8 0.3	2.6 0.6	
22	ePN	03 19 57.1		08.1i		>28	>44	37 0.3	
22	ePN	05 51 49.4		05.9		0.9 0.5	3.6 0.2	1.5 0.5	
22	ePN	05 58 45.3		12.1i		1.0 0.4	1.5 0.5	1.4 0.3	
22	ePN	06 32 10.4		06.0i		1.6 0.6	4.1 0.2	1.8 0.3	
22	ePN	07 14 57.8		05.9		1.0 0.4	3.8 0.3	1.1 0.3	
22	ePN	07 27 29.1		34.7		1.9 0.7	3.8 0.5	2.7 0.6	
22	ePN	07 41 49.2		08.3i		0.7 0.2P	1.5 0.4S	1.1 0.4S	
22	ePN	11 40 01.1		04.2i		0.7 0.7	1.7 0.2	0.8 0.3	
22	ePN	11 59 54.7		15.3		0.9 0.7	0.9 0.5	1.3 0.6	
22	ePN	21 54 57.5		06.1		1.3 0.5	2.7 0.2	2.5 0.2	
22	ePZX	22 42 43.2		1 21.8		0.8 0.6	1.1 1.2	0.8 0.7	
23	ePZX	02 37 21.4		11.8		0.7 0.6	0.9 0.4	0.8 0.6	
23	ePZX	07 05 35.0				6.7 0.9X	10.0 0.9X	3.7 0.5X	-4.0
23	eZN	05 57				1.7 1.4P	0.7 0.6P	0.8 1.3P	
23	iPZX	07 12 26.7							
23	ePZX	07 15 02.2		13.2		1.7 0.5	3.5 0.5	1.6 0.4	

Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)			Initial motion(mm)		
			h	m	s	m	s	Z			
23	iPZX	08 46 55.2				07.6		2.4 0.6	4.2 0.3	2.1 0.5	+0.6
23	iPZX	09 09 37.0				12.7		2.5 0.5	8.0 0.3	2.9 0.2	-3.0
23	ePZX	14 04 21.6						39 X	47.5 0.9X	46 X	-
23	eE	14 04 33.7						1.0 0.8	1.2 0.6	0.9 1.0	
23	ePZX	14 49 18.8				24.2		0.5 0.6	0.9 0.6	0.6 0.6	
23	ePZX	21 50 07.4				11.3		4.2 0.7	6.8 0.5	4.8 0.4	+4.3
23	iPZX	23 46 56.6				07.4		36	63	32	0.3
24	ePZX	01 10 06.6				20.9		1.0 0.8	1.1 0.5	1.2 0.6	

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Date	Phase	Time(JST)	P-S			Amplitude(mm) · Period(sec)						Initial motion(mm)	
			h	m	s	Z	N	E	h	m	s	P-S	
27	iPZX	01 05 26.9				09.5i	0.8 0.6	2.9 0.1	1.9 0.2				+0.7
	iXZX	05 34.0					4.7 0.5	8.3 0.5	6.6 0.6				
27	iPZX	01 39 15.2				06.7i							
27	ePZX	03 15 02.8											
	eLrZX	40 52											
	eXZX	04 09 25					1.1 1.7P	0.8 1.2P	0.7 2.1P				
27	ePZX	07 28 55.5	1	00.6			1.7 0.8	0.9 0.5	2.0 1.3				
27	ePZX	13 07 41.8											
	eScP	12 30.5											
	esS	15 22.0	6	56.0			1.9 0.9P	1.0 0.9P	0.9 1.4P				
27	ePZX	17 46 15.3											
	iXZX	46 34.5				20.7i	0.9 0.6	1.6 0.5	1.7 0.6				
27	ePZX	18 05 11.8				13	0.5 0.6	0.9 0.5	0.5 0.5				
	iPZX	08 39 56.7				14.1	0.6 0.6	0.8 0.5	0.5 0.5	-0.6			
28	iPZX	08 49 06.6				08.9i	9.8 0.7	19.4 0.3	9.0 0.4	+26.0			
28	iPZX	10 29 42.0				15.3	1.0 0.6	2.2 0.6	1.9 0.5	+0.5			
28	iPZX	14 19 45.9				08.6i	0.8 0.4	2.0 0.5	1.1 0.3	+3.4			
28	iPZX	17 03 20.5				09.6	1.2 0.6	2.3 0.3	1.1 0.5	-0.1			
28	ePZX	18 12 01.0				10.4	0.5 0.3	0.8 0.2	0.6 0.7				
28	ePZX	18 35 22.2				12.0i	0.7 0.5	1.3 0.3	0.7 0.5				
28	ePZX	18 43 29.7				08.4	0.7 0.5	1.4 0.5	1.3 0.2				
28	iPZX	19 00 45.0				06.2i	0.5 0.5	1.1 0.3	0.4 0.3	+2.4			
28	ePZX	22 21 55.8				13.9	0.7 0.7	1.0 0.5	0.8 0.5	+1.7			
28	iPZX	23 27 06.1											
	iXZX	27 12.6				08.8i	1.0 0.6	2.0 0.3	2.1 0.2				
29	ePN	00 58 35.8				14.1i	13.8 0.5	16.0 0.4	9.3 0.6				
29	ePN	02 20 09.5				08.7i	3.7 0.5	9.9 0.6	4.7 0.7				
29	ePN	02 34 36.6				07.7i	0.6 0.6	0.9 0.2	0.7 0.4				
29	iPN	03 20 43.5					SO	SO	SO	+SO(Z)			
29	ePN	07 45 24.3				13.3	1.3 0.5	1.5 0.4	0.7 0.5				
29	ePN	07 53 11.0				09.6i	0.9 0.5	1.9 0.4	1.3 0.5				
29	ePZ	08 31 56.5				09.4i	2.4 0.5	5.2 0.2	3.5 0.5				
29	ePZ	09 38 44.0				10.5	2.4 0.5	3.5 0.5	3.9 0.3				
29	ePZ	12 51 11.4					1.8 0.7P	1.1 0.5P	1.2 0.7P				
29	ePZ	13 09 43.5				06.3	11.5 0.5	16	11.0 0.4				
29	ePZ	14 57 50.7				32.3	2.3 0.6	2.5 0.7	2.3 0.6				
29	ePZ	15 10 57.5				09.3	0.5 0.5	1.0 0.3	0.5 0.3				
29	ePZ	15 21 39.2											
	iXZ	21 41.0				27.9	1.8 0.5	3.3 0.3	1.6 0.3				
29	ePZ	15 43 42.8				13.2	0.9 0.5	1.9 0.3	1.2 0.7				
29	ePZ	16 16 54.8				16.8	0.6 0.6	1.5 0.5	0.9 0.7				
29	ePZ	18 10 23.7				12.1	1.7 0.5	3.0 0.3	2.5 0.5				
29	ePZ	18 30 16.1				16.2	3.3 0.5	4.0 0.4	3.1 0.5				
29	ePZ	20 52 08.9				07.8i	0.7 0.5	2.0 0.2	1.1 0.5				
29	ePZ	22 34 48.2					1.4 0.7P	1.0 0.8P	0.5 0.6P				
30	iPZX	00 31 58.0				10.0i	0.9 0.5	1.7 0.5	0.7 0.6	+0.7			
30	iPZX	02 02 49.8				10.0i	1.0 0.6	2.5 0.5	1.2 0.5	+1.0			
30	iPZX	06 34 34.0				08.2i	1.2 0.5	2.9 0.3	2.0 0.4	+4.5			
30	iPZX	06 36 34.6				24.6	0.7 0.7	1.2 0.6	0.8 0.5	-1.0			
30	ePZX	07 18 48.5				12.1i	0.8 0.6	1.4 0.5	0.9 0.6				
30	iPZX	15 11 42.8				12.2	3.1 0.5	5.0 0.4	4.3 0.7	+0.4			
30	ePZX	15 34 26.2				16.8	0.5 0.5	0.9 0.5	0.6 0.8				
30	ePZX	16 19 39.7				09.4i	2.7 0.4	3.0 0.4	2.0 0.5				
30	iPZX	16 30 29.3				13.5	1.2 0.6	3.1 0.3	0.9 0.2	-2.8			
30	ePZX	21 35 40.4				11.4	4.0 0.7	9.0 0.3	4.5 0.5				
30	iPZX	22 20 33.8				08.5				+SO			
30	iPZX	23 23 29.7					2.7 0.7P	2.0 0.7P	1.3 1.1P	+5.0			

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Phase	Time(JST)	A(mm)			T(sec)	P-S	Phase	Time(JST)	A(mm)			T(sec)	P-S
		h	m	s					h	m	s		
ePZ	11 20 23.0				SO		-iPZ	13 05 24.1				2.8 0.6	
+iPZ	11 22 23.5				SO		eXZ	13 10 38.5				5.5	11.5
eXZ	11 27 09.5	4					ePZ	13 13 05.8				2.0 0.7	12.2
ePZ	11 29 34.3	2					ePZ	13 13 43.3				7	11.7
iXZ	11 43 27.0				SO		eSZ	13 15 35				3.0 0.5	
ePZ	11 52 0												

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Phase	Time(JST)	P-S	Amplitude(mm)			Period(sec)	Initial motion(mm)
			Z	N	E		
ePE	15 16 09.7	13.6	2.3	0.7	2.4	0.8	1.5 0.5
eXZ	15 17 52		5X			6X	
ePZ	15 20 57.5	11.5	5.5	0.7	SO	SO	
ePZ	15 24 37.6	09.4	2.1	0.5	3.0	0.2	1.5 0.3
eSZ	15 25 52.3		1.4	0.6	1.8	0.5	1.3 0.7
iSN	15 26 47.5		0.9	0.5	1.4	0.7	1.1 0.5
eXIN	15 27 18.0						
eXZZ	27 33.0		3.5	0.5X2	6X2	4.0	0.7X2
ePZ	15 28 25.4	12.1	1.3	0.5	2.4	0.5	1.6 0.4
ePZ	15 30 19.6	09.1		SO	SO	SO	
eP	15 30 50						
eXZ	15 33 37		1.3	0.3X	3.3	0.3X	1.2 0.5X
ePN	15 34 33.7	13.8	4.0	0.5	4.0	0.4	2.4 0.3
eXZ	15 37 02		1.1	0.4X	1.8	0.2X	1.0 0.4X
iPZ	15 37 12.2			SO	SO	SO	-7.2
ePZ	15 41 29.0	08.7i	2.2	0.5	4.5	0.5	2.3 0.6
ePZ	15 43 36.2	11.3	2.0	0.6	3.5	0.5	2.0 0.4
iPZ	15 44 56.4	12.6	12	0.5	18	0.5	+1.1
eYN	15 47 40		0.9	0.6X	1.2	0.5X	1.0 0.6X
ePZ	15 50 31.4	10.1	1.8	0.5	3.5	0.3	1.5 0.6
ePZ	15 51 29.0	16	5	0.5	6		
ePZ	15 54 08.0	10.2	1.2	0.5	3.2	0.5	2.0 0.5
ePZ	15 57 06.4	13.8i	5.8	0.7	5.6	0.7	4.0 0.7
ePZ	15 58 40.9	10.1i	1.3	0.5	3.0	0.2	2.4 0.2
eSN	15 59 49		0.5	0.3	0.9	0.2	0.7 0.4
eSE	16 01 13.0		1.9	0.2	3.0	0.2	2.8 0.5
iPZ	16 03 41.0	11.8	3.3	0.5	5.0	0.3	2.3 0.3
ePZ	16 04 16.5	14.2	1.4	0.7	1.8	0.6	1.1 0.5
ePZ	16 04 52.6	11.9	1.8	0.5	5.2	0.2	2.2 0.4
ePZ	16 06 08.8	13.7	0.6	0.7	0.8	0.7	0.8 0.5
ePZ	16 07 07.5	14.0i	0.7	0.6	1.6	0.2	1.0 0.1
ePN	16 07 58.8	29.7	3.8	0.7	5.1	0.8	4.5 0.7
ePZ	16 12 04.0						
iXIN	12 13.1						
iX2Z	12 30.2		4.6	0.5X2	>6.5x2	2.0	0.5X2
ePZ	16 14 48.8	12.2	1.2	0.6	2.0	0.5	1.4 0.3
ePZ	16 15 27.7	09.5	1.5	0.8	2.0	0.8	1.7 0.8
ePZ	16 16 15.8	11.2i	1.4	0.5	3.8	0.3	2.3 0.5
ePZ	16 17 05.8						
eXE	17 22.0		6.0	0.5X	6.0	0.5X	4.7 0.7X
iSN	16 20 47.6		1.6	0.5	4.4	0.2	2.2 0.2
ePZ	16 22 30.0	27	5.0	1.0	6.5	1.0	
eSE	16 23 54.5		2.2	0.5	5.0	0.3	5.0 0.3
ePZ	16 25 48.2	12.0	0.9	0.4	1.3	0.5	0.7 0.6
ePZ	16 26 55.2	10.9	0.6	0.5	0.9	0.6	0.6 0.4
ePZ	16 28 35.2			SO	SO	SO	
eXE	16 34 40		3.5	0.7X	4.0	0.7X	4.7 0.7X
ePZ	16 35 37.9	11.1	13		17		15
iPZ	16 37 03.9			SO	SO	SO	-
ePZ	16 40 07.3	10.2	1.7	0.6	1.6	0.3	1.3 0.8
ePZ	16 40 57.8	06.8	1.9	0.6	2.5	0.5	1.6 0.6
eSE	16 42 32.6		1.2	0.5	1.7	0.2	1.1 0.2
ePZ	16 43 12						
eXE	43 27		7.9	1.2X	6.5	1.2X	5.0 1.0X
eSE	16 47 43.5		0.7	0.7	1.1	0.2	0.7 0.6
ePZ	16 48 16.2	08.8	3.5		6.5	0.2	3
eXE	16 49 03			SO	SO	SO	
ePZ	16 53 31.5	10.5	10		15		10
ePZ	16 55 23.4	10.6i	1.8	0.3	4.5	0.2	2.4 0.4
ePZ	16 56 44.1	09.5i	0.8	0.4	2.1	0.7	1.4 0.3
eXZ	16 58 30.6		0.7	0.6X	1.0	0.6X	0.6 0.5X
ePZ	16 58 54.0	10.5	2.5	0.5	4.2	0.3	3.0 0.3
eXZ	16 59 54		3.6	0.7	3.5	0.5	2.5 0.6
ePE	17 01 04.5	09.0	2.4	0.4	2.5	3.0	
ePZ	17 02 55.7	16.3		SO	SO	SO	
ePZ	17 07 42	11	1.5	0.5	1.7	0.4	1.0 0.3
ePZ	17 09 49.2	13.8	5.5	0.6	8.8	0.2	4.7 0.3

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Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)			Initial motion(mm)
			Z	N	E	
iPZ	17 11 39.7		11.8	8.0	0.5	7.0
eXZ	17 14 48		1.0	0.5X	2.9	0.1X
iPZ	17 16 33.0			SO	SO	SO
eSZ	17 19 08.5		1.5	0.3	1.8	0.3
ePZ	17 19 31.5	12.9i	2.2	0.4	4.0	0.3
ePZ	17 20 20.0			SO	SO	SO
iPZ	17 24 46.1	12.4i	1.8	0.4	5.3	0.2
ePZ	17 25 59.6	11.4i	2.4	0.5	4.5	0.2
eXZ	17 29 10		0.6	0.7X	0.8	1.1X
ePZ	17 33 51.8	14.2	3.3	0.5	4.2	0.7
eSE	17 35 17.0		0.6	0.5	1.2	0.6
ePZ	17 35 56.5	14.0i	1.0	0.5	1.7	0.2
ePZ	17 37 02	28	1.2	0.4	4.9	0.3
eSN	17 38 20		0.8	0.5	1.1	0.5
ePZ	17 39 34.2	09.3i	1.0	0.5	3.9	0.2
eXN	17 41 23.5		1.9	0.6X	2.0	0.5X
ePZ	17 42 15.8	11.4	2.7	0.6	3.5	0.3
ePZ	17 44 23.3	08.8i	3.7	0.5	4.2	0.7
iSN	17 45 18.0		2.0	0.7	2.4	0.3
eSN	17 45 54		1.3	0.8	1.7	0.5
eXZ	17 46 48			SO	SO	SO
ePZ	17 50 13.5		0.9	0.3X	1.2	0.4X
ePZ	17 51 08.5	09.7	4.5	0.5	4.0	0.3
eSZ	17 53 06.7		1.1	0.6	0.9	0.3
ePZ	17 55 20.2	12.3	1.3	0.4	2.0	0.5
eSN	17 56 03		0.9	0.5	1.6	0.2
ePZ	17 57 12.3	10.4	1.6	0.7	2.4	0.5
iPZ	17 58 28.2			SO	SO	SO
ePZ	18 04 15.0	10.2	6.0	0.5	6.0	0.6
eXZ	18 07 11					

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Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)		
			Z	N	E
ePZ	19 28 48.5		1.6 0.6	2.5 0.7	1.5 0.4
eXZ	19 33 16.5		0.9 0.6X	1.0 0.2X	0.8 0.6X
ePZ	19 34 10.5	08.7i	0.9 0.5	1.5 0.4	0.9 0.2
ePZ	19 36 44.5		SO	SO	SO
iPE	19 39 16.2		SO	SO	SO

Phase	Time(JST)	P-S	A(mm) T(sec)	Phase	Time(JST)	P-S	A(mm) T(sec)
	h m s	s	Z		h m s	s	Z
iPZ	21 34 39.0		SO	epZ	23 14 42.0	13.0	1.3 0.6
+iPZ	21 38 18.7		SO	ipZ	23 16 34.1		SO
iPZ	22 10 41.2		SO	epZ	23 19 38.4		8
eXZ	22 25 22.5		1.2 0.5X	ipZ	23 20 24.0		SO
ePZ	22 26 06.7		SO	epZ	23 23 08.9		0.8 0.5
ePZ	22 28 51		4	ipZ	23 25 15.2		2.5
eXZ	22 30 00		6.5 0.7X	epZ	23 26 02.5		4
ePZ	22 31 32		4	epZ	23 29 39.8	09.7	4.0 0.5
ePZ	22 34 20.5	08.5	1.0 0.2	eXZ	23 31 02		1.3 0.6X
ePZ	22 34 52	14	0.7 0.5	epZ	23 31 18.5	14.4	3.0 0.5
eXZ	22 37 33		2.5 0.7X	eXZ	23 33 29		0.9 0.7X
eXZ	22 39 41		9X	-iPZ	23 36 17.1		5
ePZ	22 43 06		4 0.5	epZ	23 38 28.5	09.2	5
eSZ	22 45 07.8		4	epZ	23 40 45.0	06.5	5.1 0.6
+iPZ	22 47 37.5		13	epZ	23 42 00	16.4	6.0 0.5
eXZ	22 50		SO	eXZ	23 43 00		8.9 1.2X
ePZ	22 53 47.5		SO	epZ	23 46 40		2.2 0.6
eXZ	22 58 17		5.0 0.8X	+iPZ	23 49 23.4	15.6	8
ePZ	22 59 49	14.5	2.2 0.5	eSZ	23 50 40		4.3 0.5
-iPZ	23 01 22.1			epZ	23 52 18.5		2.5 0.5
ePZ	23 08 38.4	08.1	4.0 0.5	epZ	23 52 49.5		SO
ePZ	23 09 41.0	12.7	9 0.5	eXZ	23 56 10		4X
ePZ	23 12 10.3	16.7	1.5 0.5	+iPZ	23 59 42.2		5
eXZ	23 12 45		1.8 0.5X				

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Phase	Time(JST)	Amplitude(mm) · Period(sec)			Initial motion(mm)
		Z	N	E	
ePZ	00 01 08.6		3.5 0.5		
ePZ	00 03 00	09.8	3.3 0.5		
eXZ	00 04 13.5		1.5 0.3X		
eXZ	00 04 28		2.7 0.5X		
iPZ	00 05 51.7		20		+
ePZ	00 07 11.5		8		
iPZ	00 11 39.2		4.8 0.5		+
eSZ	00 12 35		3.0 0.5		
ePZ	00 15 05.8		4.5 0.5		
eSZ	00 17 19.5		1.3 0.5		
ePZ	00 19 45	14	1.7 0.5		
iPZ	00 20 38.5		SO		
ePZ	00 24 01.0	11.4	2.9 0.5		
ePZ	00 25 02.5	12.0	0.8 0.5		
ePZ	00 26 09.3	07.4	1.7 0.8		
eSZ	00 27 27		1.4 0.7		
iPZ	00 28 24.7	10.6i	4.0 0.3		
ePZ	00 28 51		10		
ePZ	00 32 47.5	08.6i	6.3 0.6		
eXN	00 33 11		15X		
ePZ	00 35 11.0	09.0	2.2 0.7	2.2 0.5	1.8 0.5
ePZ	00 37 35.0	11.3i	5.7 0.7		
ePE	00 39 20.0	11.3	1.9 0.5	2.5 0.5	2.2 0.7
iSN	00 40 20.1		0.8 0.6	1.7 0.5	0.7 0.6
ePZ	00 40 34.2	07.8i	2.8 0.5	5.9 0.5	3.0 0.5
eS	00 41 07.5		2.1 0.6	2.8 0.3	2.1 0.5

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Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)			Initial motion(mm)
			h	m	s	
ePZ	00 41 58.5		11.2			2.2 0.6
ePZ	00 43	36.5	09.3			3.5 0.5
iPZ	00 45	06.7				SO
ePZ	00 48	16	14			2.1 0.6
ePZ	00 50	33.5				
iXZ	50	46.5				8
iPZ	00 55	50.5				4
eSZ	00 58	47.0				0.9 0.6
						1.4 0.3
						1.2 0.4
ePZ	01 00	07				9
iPZ	01 03	02.7				4.5
ePZ	01 04	51				2.7 0.5
ePZ	01 06	03.2				5.0 0.5
ePZ	01 08	08.4				1.0 0.5
ePZ	01 09	14.9				1.2 0.4
iPZ	01 11	32.3				SO
ePZ	01 14	22.8				SO
eSZ	01 20	09.5				0.8 0.5
ePZ	01 21	39.8				2.0 0.4
ePZ	01 22	34				SO
ePZ	01 27	00.2				11.5
eXZ	01 29	54.5				4 0.4
ePZ	01 30	38.0				1.3 0.7X
eSZ	01 33	09.3				5
ePZ	01 34	11.7				0.8 0.6
eXZ	01 35	01.0				3.1 0.6
ePZ	01 35	13.0				5.0 0.5
eXZ	01 36	27.2				4.2 0.5X
eXZ	01 36	32.5				2.3 0.5X
ePZ	01 38	26.2				15.3
ePZ	01 39	11.8				10 0.4
iPZ	01 41	35.6				5
ePZ	01 42	58				SO
iSN	01 45	03.1				5.5 0.5
iPZ	01 45	51.6				1.4 0.6
ePZ	01 48	06				2.1 0.3
ePZ	01 49	36.9				1.4 0.4
ePZ	01 52	05				SO
eSE	01 52	43				1.7 0.5
eSZ	01 55	21.5				SO
ePZ	01 56	00.3				2.6
eXZ	01 56	50				3.4 0.5
ePZ	01 57	17.5				0.9 0.6
iPZ	01 59	34.0				2.7 0.4</td

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Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)						Initial motion(mm)	
			h	m	s	s	Z	N	E	
iPZ	02 38 58.2	09.5i					1.8 0.6	3.8 0.5	2.0 0.5	+
eSZ	02 39 57.2						0.9 0.6	2.0 0.4	1.6 0.5	
ePZ	02 41 14.6	16.0					8			
eXZ	02 43 29						4.2 1.1X			
ePZ	02 45 27.8	16.4					3.4 0.7			
ePZ	02 47 32	10.5					0.7 0.9		0.6 0.4	
iPZ	02 48 51.7	09.1i					3.4 0.5			+
iPZ	02 50 46.8						8			-
iPZ	02 51 47.1						7			-
ePZ	02 53 26.6						3			-
iPZ	02 54 28.8						SO			-
ePZ	02 58 58.0	07.3					0.8 0.6			
eXZ	03 00 22						0.8 0.6X		0.7 0.4X	
eXZ	03 00 48.5						0.6 0.4X	1.4 0.5X	0.9 0.4X	
ePZ	03 01 11.0	09.7					1.1 0.7	3.3 0.2	1.3 0.6	
ePZ	03 04 20.3	20.2					0.8 0.5	1.6 0.5	1.2 0.4	
ePZ	03 05 02.6	09.3					2.4 0.6	4.4 0.2	2.5 0.3	
ePZ	03 05 30.7	08.8					1.2 0.8	2.1 0.6	1.3 0.5	
ePZ	03 06 09.1	08.9					1.8 0.4		3.1 0.5	
ePZ	03 07 00.5	13.5					1.0 0.5	2.4 0.5	1.2 0.4	
eSZ	03 08 23.5						0.7 0.6	1.8 0.3	0.7 0.2	
eXZ	03 11 27.1						8X			
eXZ	03 13 15						1.9 0.6X			
ePZ	03 15 12.1	22.6					5.8 0.4			
eXZ	03 16 52						1.6 0.6X			
ePZ	03 18 28.6						2.8			
ePZ	03 19 48.7	11.1					1.7 0.5			
ePZ	03 22 22.4	15.8					0.8 0.6	1.2 0.3	0.7 0.5	
ePZ	03 23 32.7	08.1					1.3 0.5			
eXZ	03 23 58.3						1.9 0.5			
ePZ	03 24 49.3	09.2					3.0 0.5			
ePZ	03 28 23.5	28.0					5.9 0.8		7.4 1.2	
ePZ	03 31 20.7	09.7i					2.7 0.7		2.4 0.3	
ePZ	03 32 31.7	08.6					1.3 0.5	2.4 0.2	3.0 0.2	
ePZ	03 33 11.2	07.7					0.7 0.6	2.0 0.2	1.2 0.4	
eSZ	03 34 42.7						0.9 0.5	1.4 0.8	1.4 0.8	
ePZ	03 36 51.3	15.2					1.2 0.6	1.4 0.3	1.0 0.5	
ePZ	03 39 08.2	11.8					2.1 0.5	2.3 0.6	1.8 1.0	
eSE	03 39 56.0						1.1 0.6	1.7 0.3	0.7 0.3	
ePZ	03 40 54.9	16.7					1.6 0.6	2.0 0.8	1.7 0.5	
ePZ	03 41 29.7	09.8					3.4			
iPZ	03 43 48.5						SO			-
eXZ	03 49 28.1						1.6 0.7X			
ePZ	03 53 44.1						4.8 1.0X			
ePZ	03 56 00.0	10.0					1.1 0.3			
ePZ	04 03 40.5	11.0					1.1 0.7	1.3 0.6	0.8 0.8	
iPZ	04 07 05.3	09.2i					2.3 0.3			+
eXZ	04 07 58.5						0.6 0.5X			
eXZ	04 09 52.3						0.8 0.5X			
ePZ	04 12 26.0									
eXN	04 12 44						3.4 0.8X	4.2 0.7X	2.5 0.7X	
eSZ	04 13 31						2.3 0.3			
iPZ	04 13 54.3						SO			
ePZ	04 15 55.4	10.9					1.2 0.5			
iPZ	04 17 03.6						SO			
ePZ	04 21 55.0						SO			
ePZ	04 24 36.4	09.0					1.4 0.5			
iPZ	04 25 49.3	13.2					3.4 0.5			
ePZ	04 27 37.5	12.4					2.2 0.5		2.0 0.5	
eSZ	04 28 23						4.0 0.5			
ePZ	04 30 37.8	11.3					1.1 0.4	1.8 0.2	1.5 0.4	
ePN	04 31 03.2	10.1					1.8 0.5	3.0 0.4	1.5 0.5	
eXE	04 31 37						1.0 0.8X	1.8 0.7X	1.1 0.4X	
ePE	04 32 44.5	09.7i					1.0 0.6	1.5 0.5	0.9 0.6	
ePZ	04 33 42.5	12.5					1.7 0.5			
ePZ	04 36 43.0	18.8					1.7 0.7	2.4 0.9	1.6 0.7	
ePZ	04 40 02.3	15.9					1.5 0.5	2.4 0.5	1.7 0.6	

Phase	Time(JST)	Amplitude(mm) · Period(sec)						Initial motion(mm)
		h	m	s	s	Z	N	
ePZ	04 42 03.1					08.7	0.8 0.6	
iPZ	04 44 09.5						SO	
ePZ	04 47 30.1					08.4	7	
eXZ	04 48 39						1.9 0.7X	
ePZ	04 51 09.3					21.7	3.5 0.6	
ePZ	04 54 37.5					11.2	2.2 0.7	
ePZ	05 00 17.7					13.9	1.6 0.7	
ePZ	05 02 38.7					10.8	0.9 0.6	
eSZ	05 03 13						2.3 0.6	
iPZ	05 03 57.7						SO	
iPZ	05 10 28.4					10.1i	16.0 0.5	
ePZ	05 12 26.8					10.6i	4.4 0.5	
ePZ	05 13 02.0					17.7	13	
ePZ	05 16 16							
eXZ	05 16 29.3						3	
eSE	05 18 51.7						0.7 0.6	
iSE	05 19 17.0						1.1 0.5	
ePZ	05 20 43.3					11.1	0.9 0.4	
iPZ	05 22 28.5						SO	
ePZ	05 28 46.9					10.7	6.5 0.6	
ePZ	05 30 16.3					15.4	1.5 0.5	

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Phase	Time(JST)	P-S	Amplitude(mm) · Period(sec)			Initial motion(mm)
			Z	N	E	
iPZ	07 01 37.2	10.8	4.1	0.5		
ePZ	07 03 21.3		2.7	0.8X	2.8	0.8
eXE	03 33.0		0.8	0.5		
ePZ	07 05 16.5	12.7	1.7	0.4	2.1	0.2
ePZ	07 05 52.5	09.7	0.7	0.7	1.7	0.5
ePZ	07 07 23.4	10.2	0.7	0.5	0.9	0.6
ePZ	07 10 54.8	07.7	0.7	0.5	1.8	0.2
iPZ	07 15 59.6	09.9i	9	0.5	0.7	0.7
eSE	07 17 26.0		0.8	0.5	1.3	0.5
eSE	07 18 24.6		1.0	0.7	1.4	0.5
ePZ	07 19 02.7	11.5	1.5	0.5	1.2	0.5
ePZ	07 27 19.0	10.1	1.5			
ePZ	07 29 27.5	10.3	2.2	0.6		
ePZ	07 30 49.0	09.0	3.9	0.5		
ePZ	07 32 23.3		0.6	0.5		
ePZ	07 33 25.2	08.8	1.6	0.4		
ePZ	07 34 03.2	07.4	1.8	0.6		
ePZ	07 39 05.6	10.7	1.3	0.7	2.3	0.7
ePZ	07 43 19.6	14.4	1.9	0.5	2.4	0.3
ePZ	07 44 51.4	13.5	1.4	0.5	1.5	0.5
ePZ	07 49 18.5	09.5i	0.5	0.7	1.1	0.8
ePZ	07 52 10.2	15.5i	1.1	0.6	1.5	0.2
eXZ	07 52 43.7		1.7	0.6X	2.4	0.5X
iPZ	07 53 10.8	09.5	7			
ePZ	07 56 29.5	12.4	1.2	0.7	1.8	0.7
ePE	07 57 34.0				1.3	0.5
eXZ	07 57 56		4.3	1.2X		
ePZ	08 03 00.7	08.6	9.3	0.6		
ePZ	08 05 32.4		S0			
eXZ	08 15 12		0.6	0.6X		
eXZ	08 18 30		1.5	0.7X		
ePZ	08 19 55.3	10.7	0.8	0.6		
eSE	08 20 41.5		0.9	0.6		
iPZ	08 21 14.8	10.8i	1.9	0.5		
iPZ	08 23 24.8	08.7	2.7			
ePE	08 27 20.1	14.4	0.5	0.7		
ePZ	08 28 22.5	11.5	1.3	0.3		
eXZ	08 32 13		1.9	0.5	2.7	0.7
eXZ	08 34 28		0.5	0.5	1.4	0.6
ePZ	08 36 50.0	13.0i	8.8	0.5		
ePZ	08 38 56.3					
eXE	08 39 06.3		7.0	0.7		
ePZ	08 43 04.1	13.5	0.9	0.5	1.9	0.3
ePZ	08 46 53.7	11.6	1.7	0.5	2.4	0.7
ePZ	08 48 54.3	08.7i	1.4	0.5		
eXZ	08 49 38		0.8	0.6X		
eXZ	08 50 55.5		3.9	0.6X	4.7	0.8X
ePZ	08 52 18.2				3.2	0.7X
eXZ	08 52 29.5		11.5	1.5		
eX1Z	08 57 00					
eX2Z	08 57 26.6		17.8	1.0		
ePZ	09 00 48.8	11.2	4.4	0.5		
eSE	09 02 14		1.2	0.3		
eXZ	09 02 29.5		1.0	0.8X		
eXZ	09 03 04		1.7	0.6X		
eXZ	09 03 29		0.8	0.6		
ePZ	09 04 12.8		1.9	0.5		
iPZ	09 05 18.1		S0			
ePZ	09 06 24.1	09.4	8.2			
eSE	09 11 02.4		0.5	0.2	1.1	0.2
ePZ	09 13 26.6	14.2	1.3	0.5	2.7	0.6
eXZ	09 15 09		0.8	0.7X	1.4	0.3
ePZ	09 16 07.3	08.1	3.3	0.5	1.1	0.5X
eX1Z	09 17 14.2		1.7	0.6X2	2.4	0.8X2
eX2Z	09 17 34.5				1.9	0.8X2

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Date	Phase	Time(JST)			P-S	Amplitude(mm) · Period(sec)				Initial motion(mm)	
		h	m	s		Z	N	E			
17	ePZ	09	19	52.4	09.6	1.4	0.5	1.9	0.4	1.4	0.5
17	eXZ	09	22	45		0.9	0.6X	1.3	0.5X	0.8	0.5X
17	ePZ	09	23	36.3	12.2	2.0	0.3				
17	ePZ	09	24	58.5	21.7	7.5	1.0	11.3	0.3	9.3	1.1
17	eXE	09	28	45		2.7	0.6X				
17	eSZ	09	29	33.5		7.8	0.3				
17	ePE	09	35	06.5	14.5	3.2	0.9			2.5	0.7
17	iPZ	09	36	19.6		08.9	2.0	0.6		2.0	0.5
17	ePZ	09	37	44.6	11.9i	1.7	0.5			1.8	0.3
17	eSE	09	40	23.8		0.6	0.5	1.4	0.7	0.7	0.6
17	eSE	09	45	02.0		0.5	0.5	0.8	0.5	0.7	0.5
17	ePZ	09	45	53.2	13.3	15	0.5				
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** 19	iPZX	12	26	24.5	21.3i	10.7	1.7	13.8	1.0	7.2	0.6
19	eSN	12	29	04.0		0.7	0.5	0.8	0.3	0.6	0.2
19	eX1Z	12	33	01.0							
	eX2N		33	40.4							
	iX3N		34	39.9		3.2	0.7X3	4.1	0.7X3	2.7	0.6X3
19	ePZX	12	44	40.5	22.8	1.4	0.7	2.3	0.5	1.4	0.4
** 19	iPZX	13	21	52.3	11.7i	0.7	0.5	2.7	0.4	1.5	0.5
19	eX1Z	13	23	34.3							
19	eX2Z		24	07.0		0.8	0.7X2	1.2	1.0X2	0.7	0.7X2
19	iPZX	13	34	24.9	12.6	3.5	0.6	3.7	0.5	3.1	0.7
19	ePZX	13	36	04.3	24.2	1.5	0.9	1.5	0.9	0.7	0.9
** 21	ePZX	06	06	00.1	10.6i	1.0	0.5	2.4	0.2	0.8	0.4
21	iPZ	06	11	11.0							
	eXN		11	45.5							
21	ePN	06	20	22.2	34.5	0.9	0.8	1.5	0.8	0.9	0.5
21	ePZX	06	23	18.7							
	eXN		23	55.5		1.3	0.7X	3.4	0.3X	2.9	0.8X
** 22	ePZX	08	05	00.6	16.8	3.7	0.6	3.3	0.6	2.6	0.5
22	eXZ										