

Seismological Bulletin of Syowa Station, Antarctica,
1976

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The present report describes the seismological data of 1976 recorded at Syowa Station. The data of the respective seismic events interpreted from the seismograms of HES and long-period seismographs are listed in chronological order.

The coordinates of seismographic vault are $69^{\circ}00'31.7''S$ in latitude and $39^{\circ}35'31.6''E$ in longitude. The elevation is 20 metres above the mean sea level.

Seismological observations up to January 1976 were carried out by K. Chujo and M. Manabe, members of the 16th Japanese Antarctic Research Expedition. For the succeeding period of January 1976 to January 1977, T. Haneda, members of the 17th expedition, undertook the observations.

The seismograms were read again by Mr. R. Sakai and Miss K. Kokubun of Logistic Section, National Institute of Polar Research.

1. Date
2. Identified phase with its sharpness indication (e or i) and ground motion direction (+: Up, E, N, -: Down, W, S). The phase identified by the vertical component is denoted with Z and the phase by horizontal components is denoted with E (detected by E-W component) or N (detected by N-S component). The data from long-period seismographs are denoted with LP.
3. Arrival time in G. M. T.
4. Period of the phase in seconds.
5. Trace amplitude in millimetres.

The instrumental constants and magnification curve of HES and LP seismographs are shown in Table 1 and Fig. 1. The seismographs were operated with attenuation factor $\mu=1/4$ since March 1, 1970.

The read-out data were sent from Syowa Station to Environmental Research Laboratories throughout the wintering period.

References

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Table 1. Instrumental constants of HES and long-period seismographs.

Component	Z	N-S	E-W
HES			
T ₁ (s)	1.0	1.0	1.0
S ₁ (A/mm)	2.84 x 10 ⁻⁵	1.96 x 10 ⁻⁵	1.86 x 10 ⁻⁵
R ₁ (Ω)	1133	1095	1092
Ω ₁ (Ω)	1041	1738	1849
h ₁	1.0	1.0	1.0
T ₂ (s)	1.12	0.91	1.16
S ₂ (A/mm)	1.18 x 10 ⁻⁹	1.49 x 10 ⁻⁹	1.38 x 10 ⁻⁹
R ₂ (Ω)	569	629	560
Ω ₂ (Ω)	1823	1569	1058
h ₂	1.0	1.0	1.0
LP			
T ₁ (s)	20.0	20.0	20.0
S ₁ (A/mm)	2380	2840	2830
R ₁ (Ω)	3100	2900	3200
Ω ₁ (Ω)	48	37	156
h ₁	1.0	1.0	1.0
T ₂ (s)	20.0	20.0	20.0
S ₂ (A/mm)	4.4 x 10 ⁻¹⁰	5.0 x 10 ⁻¹⁰	4.0 x 10 ⁻¹⁰
R ₂ (Ω)	370	370	370
Ω ₂ (Ω)	1130	1130	1130
h ₂	1.0	1.0	1.0

T₁: Period of the pendulum. T₂: Period of the galvanometer.
 S₁: Sensitivity of the transducer. S₂: Sensitivity of the
 R₁: Resistance of the pendulum coil. galvanometer.
 R₂: Resistance of the galvanometer coil.
 Ω₁: External damping resistance of the transducer.
 Ω₂: External damping resistance of the galvanometer.
 h₁: Damping constant of the pendulum.
 h₂: Damping constant of the galvanometer.

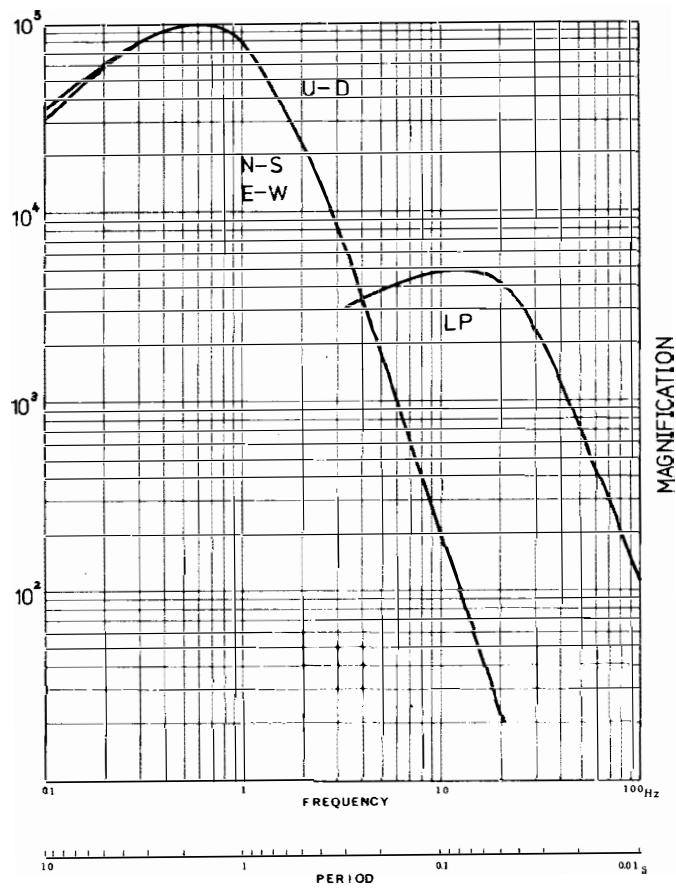


Fig. 1. Magnification curves of HES and long-period seismographs.

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JAN 01	+IPE	01	41	37.0	1.7	2.6
	-IPN	01	41	37.5	1.0	1.8
	+IPZ	01	41	37.0	1.0	2.2
	-ISE	01	51	31.0	2.2	5.0
	-ISN	01	51	30.5	2.0	5.8
	+ESZ	01	51	32.5	2.5	3.5
	-EXE	01	57	19.0	1.0	2.0
	+EXN	01	57	19.0	1.2	2.5
	+EXZ	01	57	18.5	1.2	3.0
	+EXE	02	01	21.9	1.0	1.2
	-EXN	02	01	21.9	1.0	1.5
	+EXZ	02	01	21.9	1.4	2.7
	+IXE	02	07	45.0	1.0	1.6
	+IXN	02	07	45.1	1.1	1.9
	+IXZ	02	07	44.8	1.0	1.9
	-EXE	02	18	32.9	0.9	0.6
	-EXN	02	18	33.0	1.0	2.3
	-EXZ	02	18	32.5	0.8	1.0
	+IPE	02	33	08.5	1.1	1.3
	+IPN	02	33	07.5	0.8	1.2
	+IPZ	02	33	08.0	1.0	2.5
	+ESE	06	31	23.0	1.2	2.1
	+ESN	06	31	24.0	0.9	1.0
	-ESZ	06	31	23.1	1.0	0.6
	-IPE	07	14	49.0	1.5	1.6
	+IPN	07	14	49.0	0.8	1.5
	-IPZ	07	14	49.0	1.0	2.0
	+EPE	08	03	16.7	1.1	2.1
	-EPN	08	03	15.8	0.7	0.6
	+EPZ	08	03	16.6	1.0	0.6
	+EPE	08	32	13.0	1.0	1.5
	-EPN	08	32	13.7	0.9	1.5
	-EPZ	08	32	14.0	0.4	0.5
	+EPE	09	17	50.4	1.4	0.6
+EPN	09	17	51.0	1.3	1.0	
-EPZ	09	17	51.0	2.3	2.1	
+EPE	09	45	56.0	1.1	1.1	
+EPN	09	45	55.9	1.0	1.5	
+EPZ	09	45	55.0	0.8	1.0	
+EPE	11	05	13.5	1.1	1.6	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JAN 01	+EPN	11	05	13.9	0.9	0.6
	+EPZ	11	05	13.5	1.1	0.4
	+IPE	16	27	41.0	1.7	2.5
	+IPN	16	27	40.5	1.1	2.0
	-IPZ	16	27	40.0	1.5	3.8
	+ISE	16	28	31.6	1.8	2.8
	-ESN	16	28	32.0	1.2	2.0
	+ISZ	16	28	31.5	1.2	2.5
	+EPE	18	56	23.3	1.8	1.5
	+EPN	18	56	23.8	1.1	1.0
	+EPZ	18	56	23.3	1.4	1.5
	+IPE	19	15	24.0	1.0	1.5
	-IPN	19	15	24.0	1.0	2.0
	+IPZ	19	15	24.0	1.1	3.0
	LP+LRZ	19	31	11.3	22.5	5.0
	+IPE	01	20	29.5	1.7	2.5
	-IPN	01	20	29.5	1.2	2.5
	+IPZ	01	20	29.5	1.5	3.5
	-ESE	02	25	18.7	1.3	1.3
	+ESN	02	25	19.0	1.5	1.2
	+ESZ	02	25	18.0	1.5	1.5
	-IPE	03	52	12.5	0.6	1.0
	-EPN	03	52	12.0	1.0	1.2
	+IPZ	03	52	12.0	1.0	1.5
	-IPE	06	00	31.9	1.0	1.0
	+EPN	06	00	31.8	1.0	1.0
	-IPZ	06	00	31.9	1.1	1.5
	+ISE	06	08	29.9	1.5	2.1
	-ESN	06	08	30.3	1.2	0.7
	LP+LRZ	06	34	11.3	18.8	1.5
	+EPE	07	41	26.0	0.8	2.0
	+EPN	07	41	26.0	1.0	1.0
	-EPZ	07	41	26.0	0.9	1.5
	+IPE	22	08	29.0	1.0	0.7
+IPN	22	08	29.0	1.2	1.5	
+IPZ	22	08	28.7	1.2	1.5	
-IPE	19	34	41.0	1.4	4.0	
-IPN	19	34	41.0	1.6	3.0	
+IPZ	19	34	41.0	2.0	16.0	
+ESE	19	40	14.1	1.2	1.2	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JAN 03	+ESN	19	40	14.0	1.2	1.1	
	-ESZ	19	40	12.0	1.2	1.0	
04	+EPE	04	08	25.5	1.0	1.4	
	+EPZ	04	08	23.2	1.2	1.0	
	LP+LXZ	08	32	03.8	30.0	4.0	
	+EPE	08	36	23.2	0.5	1.1	
	+EPN	08	36	22.0	0.8	0.6	
	-EPZ	08	36	23.8	0.4	0.5	
	+EPN	20	03	36.0	1.0	0.5	
	+EPZ	20	03	38.0	1.5	1.0	
	05	+IPE	02	44	09.3	1.5	3.3
		+IPN	02	44	09.0	1.1	1.6
-IPZ		02	44	09.0	1.5	4.6	
+ESE		02	48	23.0	1.4	1.2	
+ESN		02	48	21.6	1.3	0.9	
+EPE		20	58	02.7	0.8	0.5	
+EPZ		20	58	02.6	0.6	0.5	
06		-EPE	01	54	57.5	1.0	3.0
		+EPN	01	54	56.0	0.6	0.5
		+EPZ	01	54	58.0	0.8	0.6
	+EPE	21	27	59.0	1.5	1.0	
	+EPZ	21	27	59.0	1.5	1.5	
	+ESE	21	31	26.0	1.0	1.4	
	+ESN	21	31	27.0	0.6	0.4	
	+ESZ	21	31	26.0	0.8	0.9	
	-EPE	22	05	05.7	1.5	1.0	
	-EPZ	22	05	05.4	1.3	1.1	
07	+EPE	22	37	27.8	1.9	2.3	
	-EPN	22	37	29.0	1.0	0.6	
	-EPZ	22	37	28.8	1.1	0.3	
	-IPE	00	06	25.2	1.0	2.0	
	-IPN	00	06	25.1	1.0	1.2	
	+IPZ	00	06	25.1	1.0	2.5	
	+EXE	00	06	55.0	0.8	1.5	
	+EXN	00	06	56.0	1.0	1.0	
	+EXZ	00	06	56.2	1.3	3.5	
	+ESE	00	16	19.4	3.3	3.5	
07	-ESN	00	16	20.1	1.1	0.5	
	-IPE	00	22	39.0	1.4	2.0	
	+IPZ	00	22	38.3	1.4	2.8	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JAN 07	+EPE	07	08	53.4	1.0	1.2	
	-EPN	07	08	53.5	0.8	1.2	
07	+EPZ	07	08	53.3	1.2	1.5	
	-IPE	08	10	16.0	0.7	1.0	
	+IPN	08	10	16.0	0.9	1.6	
	+IPZ	08	10	15.8	1.0	1.2	
	-IPE	11	33	27.7	1.0	1.4	
	+IPN	11	33	27.7	1.0	3.5	
	+IPZ	11	33	27.5	1.0	2.5	
	-IPE	12	36	41.8	1.0	2.0	
	+IPN	12	36	41.0	1.0	1.5	
	+IPZ	12	36	41.5	1.0	2.2	
	+IPE	23	54	04.5	1.2	1.9	
	+EPN	23	54	05.4	1.1	1.0	
	+IPZ	23	54	04.2	1.5	3.5	
	08	+EPE	10	50	21.0	1.0	0.7
		+EPN	10	50	21.5	0.8	0.5
		+EPZ	10	50	19.6	1.2	0.5
		-EPE	16	09	52.5	1.0	0.5
		+EPN	16	09	51.3	1.0	0.5
		-EPZ	16	09	53.0	1.4	1.5
		09	-EPE	11	52	37.0	1.2
-EPN			11	52	38.0	0.7	0.5
+EPE			17	59	43.9	1.2	1.0
+EPN			17	59	42.5	1.0	0.4
+EPZ	17		59	44.1	0.9	0.6	
+IPE	21		43	49.9	1.2	5.9	
-EPN	21		43	50.0	0.6	0.6	
+IPZ	21		43	49.6	1.2	5.7	
10	+IPE		00	07	09.2	2.2	5.6
	+EPN		00	07	08.9	0.6	1.0
	-IPZ	00	07	08.9	1.6	1.5	
	-IXE	00	07	51.0	1.8	14.0	
	+EXN	00	07	50.8	1.8	9.0	
	-IXZ	00	07	50.4	2.2	16.0	
	LP+ISKSE	00	17	14.6	12.7	5.0	
	-ISE	00	17	16.0	2.0	2.0	
	-ISN	00	17	17.2	2.2	14.4	
	-ISZ	00	17	17.5	2.1	3.0	
LP+IPSE	00	18	36.4	12.7	10.0		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JAN 10	LP+LRE	00	43	28.1	20.6	3.0	
	LP+LRZ	00	43	28.1	18.8	5.0	
	+EPE	08	59	42.5	1.4	1.1	
	+IPN	08	59	42.3	1.2	1.5	
	+IPZ	08	59	42.6	1.2	1.5	
	-IXE	09	01	05.0	0.8	1.0	
	+IXN	09	01	04.4	1.0	5.0	
	+IXZ	09	01	04.4	2.1	2.0	
	LP-EPE	09	07	36.4	20.0	6.5	
	LP-EPZ	09	07	35.1	14.8	3.0	
	+EXE	09	18	55.4	1.2	1.0	
	+EXZ	09	18	55.0	0.8	0.5	
	+IPE	13	37	10.0	1.0	2.8	
	-IPE	13	37	10.4	1.0	4.4	
	+IPZ	13	37	10.0	1.1	5.2	
	+EPE	19	39	04.5	1.0	1.1	
	-EPN	19	39	04.2	1.0	1.0	
	+EPZ	19	39	04.1	1.0	1.1	
	11	-EPE	23	32	57.3	1.7	2.6
		-IPE	23	32	57.1	1.3	3.1
+IPZ		23	32	57.0	1.6	4.5	
12		+IPE	19	47	23.0	1.0	1.5
	-IPN	19	47	23.1	1.1	2.0	
	+IPZ	19	47	23.0	1.4	1.5	
	LP+LRZ	20	16	01.9	22.5	2.5	
14	-IPE	21	59	32.0	1.0	2.5	
	+EPN	21	59	31.0	1.0	1.0	
	+EPZ	21	59	31.2	1.0	0.7	
	+IPE	06	40	02.0	1.5	2.0	
	-IPE	06	40	02.2	1.1	2.5	
	+IPZ	06	40	02.0	1.0	3.0	
	-IPE	16	08	26.2	2.0	4.0	
	-IPE	16	08	26.1	1.0	1.4	
	+IPZ	16	08	26.2	1.1	2.0	
	LP-LPPE	16	14	13.1	11.0	19.0	
	LP+EPZ	16	14	13.1	16.0	32.5	
	-ISE	16	18	33.0	4.0	29.5	
-ISE	16	18	31.0	2.3	15.0		
+ISZ	16	18	33.5	2.1	7.0		
LP+ISZ	16	18	35.6	15.0	105.0		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JAN 14	LP-ISZ	16	18	36.0	12.2	152.0	
	LP+ESSE	16	23	22.5	15.0	55.5	
	LP+ESSZ	16	23	27.2	17.8	79.5	
	LP+LQE	16	32	20.6	36.6	62.6	
	LP-LRE	16	34	16.9	20.6	53.0	
	LP-LRZ	16	34	15.9	16.9	61.0	
	+EPE	16	59	29.7	0.9	1.4	
	+EPN	16	59	29.5	1.2	1.5	
	+EPZ	16	59	29.4	1.7	2.2	
	+EPE	18	00	33.0	1.7	3.5	
	-EPN	18	00	34.2	1.5	6.0	
	+EPZ	18	00	34.6	2.0	6.0	
	+EPE	18	46	52.0	1.8	2.3	
	+EPN	18	46	51.5	1.0	1.0	
	-EPZ	18	46	52.0	1.0	1.0	
	-EPE	19	02	24.2	2.0	3.5	
	+EPN	19	02	24.5	1.3	3.0	
	-IPZ	19	02	24.9	1.3	4.0	
	-EPE	22	09	47.9	1.7	1.7	
	-EPZ	22	09	48.4	1.0	1.6	
	+EPE	22	55	46.1	1.8	2.5	
	+EPN	22	55	44.0	1.0	0.8	
	+EPZ	22	55	46.0	2.0	3.0	
	LP+EXE	22	56	12.9	13.9	2.0	
	LP+EXZ	22	56	07.5	19.1	1.5	
	LP+ISZ	23	05	46.9	14.1	12.5	
	LP-ESZ	23	05	52.5	17.8	1.5	
	LP+LRE	23	25	04.7	13.8	9.5	
	LP-LRZ	23	25	01.9	16.9	2.0	
	15	-EPE	00	57	55.6	1.5	3.0
		+EPN	00	57	55.0	1.8	2.4
		+EPZ	00	57	57.8	1.4	2.4
		+EPE	02	06	52.0	2.3	2.1
+EPN		02	06	50.4	1.0	0.8	
+EPZ		02	06	52.0	1.9	2.0	
-IPE		02	12	12.0	1.1	1.7	
+IPN		02	12	11.5	1.2	1.5	
-IPZ		02	12	11.0	1.1	2.0	
LP+ISZ		02	22	11.1	12.0	5.5	
LP-LRE		02	40	10.3	13.1	4.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JAN 15	-EPE	03	37	24.0	1.0	1.0
	-EPN	03	37	25.3	1.3	1.5
	+EPZ	03	37	25.4	1.1	1.1
	-IPE	03	42	06.0	1.5	1.9
	+IPN	03	42	06.0	1.0	2.0
	+IPZ	03	42	05.5	1.4	1.5
	LP+ISE	03	52	05.6	13.1	16.5
	LP-LRE	04	09	01.9	15.0	7.0
	LP-ISE	04	10	53.4	15.0	10.5
	+EPE	04	53	42.9	1.4	4.5
	-EPN	04	53	42.9	1.3	2.5
	+EPZ	04	53	42.9	1.9	5.5
	+EPE	05	56	59.5	1.2	1.0
	+EPN	05	56	59.0	1.0	0.6
	-EPZ	05	56	59.0	1.0	1.0
	-EPE	06	18	44.5	1.6	1.5
	+EPN	06	18	44.0	2.0	2.5
	-EPZ	06	18	42.5	1.0	1.4
	LP+ISE	06	28	41.3	12.2	13.0
	-EPE	06	40	14.0	1.8	2.1
	+EPN	06	40	13.7	1.2	1.2
	+EPZ	06	40	13.0	1.1	1.1
	LP-LRE	06	46	03.8	15.0	11.0
	LP-ISE	06	50	15.0	15.9	19.0
	+EPE	08	41	48.0	1.1	1.6
	+EPN	08	41	48.1	1.0	2.0
	+IPZ	08	41	47.4	1.1	2.5
	LP-ESE	08	51	46.9	11.3	4.0
	-IPE	10	21	53.2	1.5	12.2
	+IPN	10	21	52.9	1.4	11.0
	+IPZ	10	21	52.0	2.0	11.5
	LP+IXE	10	24	15.0	12.2	113.0
	+ESE	10	27	46.5	2.2	5.5
-ESN	10	27	42.0	1.1	1.0	
+ESZ	10	27	45.5	1.2	1.6	
LP+EXE	10	28	13.1	13.1	5.5	
LP-IXE	10	29	15.0	16.9	43.5	
LP-EXE	10	30	56.3	9.4	9.0	
+EPE	14	00	27.0	1.9	2.9	
-EPN	14	00	27.9	1.2	2.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JAN 15	+EPZ	14	00	25.5	2.0	2.0
	+EPE	16	24	15.9	1.1	1.2
	+EPN	16	24	16.3	1.1	1.5
	+EPZ	16	24	15.5	1.6	2.0
	LP+ISE	16	34	11.3	12.2	8.5
	LP-ESZ	16	34	13.1	13.1	2.5
	LP-LRE	16	55	18.8	22.5	5.0
	LP-LRZ	16	55	22.5	21.6	14.5
	+EPE	18	14	13.5	1.5	2.0
	+EPN	18	14	12.0	0.7	0.5
	-EPZ	18	14	11.5	1.8	1.5
	+EPE	21	59	07.2	1.0	0.6
	-EPN	21	59	07.0	1.0	1.0
	+EPZ	21	59	06.1	0.8	0.6
	+EPE	00	32	57.4	1.0	0.8
	+EPN	00	32	58.5	1.0	1.4
	+EPZ	00	32	58.2	0.9	1.0
	+EXE	00	36	20.0	1.0	3.0
	+EXN	00	36	18.5	0.8	2.5
	+EXZ	00	36	21.5	1.0	1.9
	+EXE	01	27	01.5	1.0	0.6
	-EXN	01	27	02.0	1.0	1.5
	-EXZ	01	27	01.5	1.0	0.6
	+EPE	04	23	14.0	1.0	0.8
	-EPN	04	23	14.0	1.0	0.8
	+EPZ	04	23	14.0	1.2	1.2
	+IPE	11	06	50.2	1.5	2.2
	+IPN	11	06	51.0	1.5	2.2
	+IPZ	11	06	50.3	1.5	3.0
	-EPE	13	07	36.5	1.3	2.5
	+EPN	13	07	36.1	0.6	1.5
	+EPZ	13	07	35.8	0.8	1.5
	+EPE	13	31	18.6	1.6	1.0
-EPN	13	31	19.0	0.3	0.5	
+EPZ	13	31	17.3	1.5	0.8	
-IPE	21	58	15.1	1.2	2.1	
-IPN	21	58	14.3	1.5	2.6	
+IPZ	21	58	14.5	1.4	3.0	
+EPE	23	43	03.0	1.3	3.0	
-IPN	23	43	03.0	1.1	3.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JAN 16	+IPZ	23	43	02.7	1.0	4.0
	+EPE	06	01	31.7	0.9	0.9
17	+EPN	06	01	30.5	0.8	0.9
	+EPZ	06	01	30.9	0.7	0.6
	+EPN	06	39	47.5	1.4	1.0
	+EPZ	06	39	47.0	1.5	1.0
	+EPE	07	17	49.5	1.5	1.8
	+EPN	07	17	50.0	1.0	1.1
	+EPZ	07	17	49.5	1.1	1.0
	+EPE	09	27	42.0	1.1	1.1
	-EPN	09	27	43.2	1.0	0.6
	+EPZ	09	27	43.0	1.0	1.1
	-EPE	10	08	27.1	1.5	2.0
	-EPN	10	08	26.5	1.2	2.4
	+EPZ	10	08	26.7	1.2	3.0
	-EPE	14	04	20.0	1.1	1.9
	+EPN	14	04	20.0	1.3	2.5
	-EPZ	14	04	20.0	1.1	1.9
18	+EPN	02	29	34.0	1.0	1.2
	-EPZ	02	29	34.0	1.0	1.5
	+EPE	05	06	06.5	1.5	2.3
	-EPN	05	06	05.8	0.9	1.0
	-EPZ	05	06	04.5	1.2	1.5
	-IPE	05	11	50.5	0.8	1.4
	+IPN	05	11	50.1	1.0	2.5
	+IPZ	05	11	49.5	1.0	1.5
	LP+LRZ	05	34	21.0	10.1	3.5
	-IPE	13	41	13.0	0.6	1.0
	+IPN	13	41	13.0	0.6	1.5
	-IPZ	13	41	13.0	0.6	1.5
	+EPE	15	20	46.3	0.9	0.8
	-EPN	15	20	47.1	1.0	0.6
	-EPE	16	37	43.5	1.0	3.0
	+EPN	16	37	43.5	1.0	1.0
	-EPZ	16	37	43.7	1.7	2.0
	+EPE	19	29	21.9	1.0	1.5
	+EPN	19	29	21.0	0.8	1.0
	+EPZ	19	29	20.9	1.0	1.0
	+EPE	20	02	09.5	0.4	0.5
	+EPN	20	02	09.9	1.0	0.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JAN 18	-EPZ	20	02	09.0	1.0	0.6
	-EPE	07	44	09.6	1.3	1.6
19	-EPN	07	44	09.1	1.0	1.6
	+EPZ	07	44	09.1	1.1	1.8
	+EPE	10	57	06.5	1.3	1.0
	+EPN	10	57	08.0	0.8	0.6
	+EPZ	10	57	06.1	1.2	0.6
	+EXE	15	53	36.5	1.9	1.8
	-EXN	15	53	36.6	1.5	1.3
	-EXZ	15	53	36.0	1.4	1.5
21	-EPE	04	33	38.5	0.9	0.8
	+EPN	04	33	38.3	1.0	1.0
	+EPZ	04	33	37.9	1.2	1.0
	+EPE	10	24	34.3	1.0	0.5
	+EPN	10	24	35.9	1.1	0.5
	-EPZ	10	24	35.0	0.8	0.6
	LP+IPPPE	10	28	33.8	10.3	15.5
	+EXE	10	36	48.5	1.0	2.1
	+EXN	10	36	47.2	0.8	0.6
	+EXZ	10	36	45.4	3.5	1.9
	LP+LRZ	10	40	12.2	17.8	7.5
	-EPE	13	43	45.7	1.3	1.1
	+EPN	13	43	45.7	0.8	0.7
	-EPZ	13	43	45.7	1.0	0.7
22	+EPE	04	08	37.0	1.2	0.9
	-EPN	04	08	36.5	1.2	0.8
	+EPZ	04	08	36.9	1.1	1.0
	-EPE	08	56	37.6	0.9	0.4
	+EPN	08	56	36.0	0.7	0.3
	+EPZ	08	56	37.1	0.7	0.5
	-EPE	21	23	02.0	1.1	1.5
	-EPN	21	23	01.0	0.9	0.6
23	LP-EPE	05	56	33.8	7.5	4.0
	LP-IPZ	05	56	37.5	9.4	11.5
	LP-IPPZ	05	58	46.9	12.2	8.0
	ISE	06	05	46.5		
	+ISN	06	05	46.5	1.2	9.0
	LP+ISZ	06	05	46.9	11.3	18.5
	LP-IPSZ	06	06	43.1	13.1	26.5
	LP+LRZ	06	19	39.4	13.1	5.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JAN 23	+EXE	06	23	14.2	2.0	1.3	
	-EXN	06	23	14.9	1.0	0.9	
	-EXE	06	25	54.2	2.0	5.5	
	-EXN	06	25	52.5	1.5	2.2	
	IPE	06	56	36.6			
	-IPN	06	56	36.7	0.8	1.5	
	-EPE	12	34	40.0	1.1	3.0	
	+EPN	12	34	40.0	1.0	1.0	
	+IPE	18	42	01.0	0.9	2.2	
	-IPN	18	42	01.1	0.6	1.1	
	LP-LRE	18	58	46.9	24.4	11.0	
	LP+LRZ	18	58	46.9	26.3	6.0	
	24	+EXE	02	13	23.3	1.8	2.0
		-EXN	02	13	24.0	1.8	1.0
+EPE		07	07	00.8	1.0	0.8	
-EPN		07	07	00.9	1.1	0.8	
+IPE		22	00	22.5	2.2	11.4	
-IPN		22	00	22.7	2.2	11.0	
-ISE		22	10	14.5	2.0	5.0	
-ISN		22	10	13.5	2.0	8.5	
25		+EPE	13	29	55.0	1.9	2.2
		-EPN	13	29	55.5	1.1	1.5
26	LP+LRZ	13	51	05.6	20.6	4.0	
	-EPE	01	30	46.8	0.5	0.5	
	-EPN	01	30	45.4	0.9	0.5	
	-IPE	19	02	30.3	2.0	3.2	
	-IPN	19	02	30.0	1.2	1.2	
	+IPE	22	46	00.4	1.4	2.2	
	-IPN	22	46	00.5	1.1	2.5	
	27	+EPE	04	30	05.6	1.7	1.1
		+EPN	04	30	06.0	1.2	1.0
		-EPE	06	25	38.8	1.0	1.5
+EPN		06	25	38.7	1.0	0.7	
-EPE		11	12	48.0	1.2	1.2	
+EPN		11	12	47.2	0.7	0.5	
+ESE		13	22	30.0	1.1	0.7	
+ESN		13	22	34.0	1.3	0.5	
+IPE		15	13	28.9	1.0	1.2	
-IPN		15	13	28.9	1.1	1.3	
+IPZ		15	13	28.8	1.2	1.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JAN 30	+EPE	02	07	14.8	1.0	1.5	
	-EPN	02	07	15.4	0.5	0.7	
	-EPE	03	11	09.0	0.8	0.6	
	-EPN	03	11	08.2	0.9	0.6	
	-EPZ	03	11	09.0	0.8	0.5	
	+EPE	03	35	09.9	1.3	1.4	
	-EPN	03	35	11.2	0.6	0.5	
	+EPZ	03	35	12.0	1.1	0.5	
	31	-EPE	08	33	41.0	0.8	1.0
		-IPN	08	33	40.9	0.8	1.1
		+IPZ	08	33	40.9	1.1	1.9
		+ESE	08	43	03.8	1.9	3.0
		+ESN	08	43	03.4	1.1	1.0
		+ESZ	08	43	04.7	1.2	1.0
+IPE		06	49	56.0	1.0	2.0	
FEB 01		-EPE	03	20	56.1	1.9	3.7
		-EPE	03	58	23.0	1.2	1.3
		LP+EPZ	11	40	15.0	17.8	12.0
	-EPN	10	57	13.1	0.6	0.6	
	+EPZ	10	57	13.2	0.6	5.2	
	-ESN	11	06	31.7	1.5	4.0	
	-ESZ	11	06	31.6	1.5	4.0	
	-IPN	12	39	58.6	1.1	1.1	
	+IPZ	12	39	58.2	2.0	9.0	
	+ISN	13	18	26.2	2.0	17.5	
	ISZ	13	18	26.8			
	+EPE	18	16	27.8	0.9	0.6	
	02	+IPE	00	17	43.2	2.0	8.5
		03	LP+EXE	09	22	01.9	7.5
LP+EXN			09	21	48.8	13.1	1.5
LP-EXZ			09	22	18.8	15.0	1.0
LP+EXN			09	29	52.5	15.0	11.5
LP+EXE			09	32	37.5	11.3	17.5
LP-EXN			09	32	46.9	14.1	17.5
+EPE			11	13	12.8	1.2	1.0
+IPE			14	59	39.1	1.4	5.5
+IPN			14	59	39.0	1.2	6.0
04	+IPE		10	04	50.3	1.0	1.0
	+EPN	10	04	50.4	1.2	5.0	
	05	NO RECORD					
05-07							
NO RECORD							

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
FEB 08	+EPE	12	34	27.2	0.8	1.0
	-EPN	12	34	37.8	0.7	0.8
	-EPZ	12	34	29.0	1.6	0.9
08-12	NO RECORD					
13	-EXE	13	58	07.8	1.3	3.3
	-EPN	13	58	08.5	0.7	1.2
	+EPZ	13	58	08.0	1.1	1.0
14	IPE	15	04	39.9		
	-IPN	15	04	39.7	1.8	3.0
	IPZ	15	04	39.7		
	IPE	03	18	30.0		
	-IPN	03	18	30.2	2.0	6.0
	+IPE	11	34	25.0	1.0	3.1
	-IPN	11	34	25.0	1.0	3.0
	IPZ	11	34	25.0		
	IPE	11	49	40.0		
	-IPN	11	49	39.5	1.8	1.8
	IPZ	11	49	39.5		
	-IPE	20	43	15.0	1.8	8.0
15	+IPN	20	43	17.9	0.5	1.0
	-IPZ	20	43	15.0	0.9	5.6
	+EPE	21	35	24.1	1.5	2.0
	+EPN	21	35	23.8	0.7	1.1
	+EPZ	21	35	22.5	0.8	0.5
16	LP+LRZ	22	09	25.3	18.8	8.5
	+EPE	21	46	48.0	0.8	0.7
	-EPN	21	46	50.0	0.7	1.0
18	+EPZ	21	46	51.5	1.1	0.7
	-EPE	09	36	09.3	1.1	1.5
	+EPN	09	36	08.8	0.8	0.5
	+EPZ	09	36	09.5	2.0	2.5
	LP+LRZ	10	07	15.0	23.4	3.5
19	-EPE	18	14	55.0	1.1	4.5
	-EPN	18	14	54.5	1.0	1.5
	-EPZ	18	14	54.8	1.2	2.5
	+EPE	10	02	06.3	1.2	1.3
	+EPN	10	02	08.0	1.3	5.0
	-EPZ	10	02	07.0	1.0	1.0
19	LP-ESE	10	03	46.9	13.1	4.0
	LP+ESN	10	03	54.4	15.0	4.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
FEB 19	LP-ESZ	10	03	54.4	15.0	8.0	
	LP-SSPE	10	11	46.9	12.2	6.0	
	LP-SSPN	10	11	50.6	15.9	8.0	
	LP+SSPZ	10	11	50.6	11.3	9.0	
	LP-LRE	10	16	33.8	14.1	24.0	
	LP-LRN	10	16	18.7	23.4	13.5	
	LP+LRZ	10	16	13.1	39.4	9.0	
	-EPE	16	05	15.0	1.0	3.0	
	+EPN	16	05	15.7	0.7	1.1	
	-EPZ	16	05	15.8	0.7	0.6	
	21	-EXE	00	22	53.7	1.3	1.7
		-EXN	00	22	53.2	1.0	0.6
-EXZ		00	22	54.0	0.8	1.1	
+EXE		08	57	26.4	2.5	4.5	
+EXN		08	57	23.3	1.5	1.0	
+EXZ		08	57	24.0	1.5	0.7	
LP-LRE		09	29	54.4	20.6	3.0	
LP+LRN		09	28	05.6	16.9	2.5	
LP+LRZ		09	29	50.6	19.7	7.0	
LP-EPZ		14	35	02.8	8.4	2.0	
LP-PPE		14	36	46.9	7.5	3.5	
LP+PPN		14	36	45.0	7.5	2.0	
22	LP-PPZ	14	36	45.0	9.4	5.0	
	LP+ESE	14	41	26.3	11.3	3.0	
	LP-ESN	14	41	28.1	11.3	5.0	
	LP+ESZ	14	41	30.0	13.1	4.0	
	LP+LRE	14	49	08.4	16.9	7.0	
	LP+LRN	14	49	11.3	20.6	10.0	
	LP+LRZ	14	49	09.4	33.8	8.0	
	-EPE	08	00	03.0	1.2	4.0	
	-EPN	08	00	03.0	1.2	1.1	
	-EPZ	08	00	03.0	1.6	4.5	
	+EPE	08	21	18.9	1.0	0.5	
	+EPN	08	21	20.0	0.6	0.5	
23	+EPZ	08	21	19.9	0.8	1.0	
	LP+LRZ	08	30	33.8	17.8	3.0	
	+EPE	18	42	07.0	2.0	5.0	
	+EPN	18	42	07.1	2.0	2.5	
	+EPZ	18	42	06.9	1.6	5.5	
	LP+LRZ	09	57	22.5	28.1	2.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
FEB 23	LP-LRN	16	38	30.0	18.7	5.0
	LP+LRZ	16	38	33.8	18.7	7.0
24	-EPE	10	56	32.2	1.0	1.0
	-EPN	10	56	33.2	0.8	0.5
	+EPZ	10	56	31.8	0.8	0.5
24-26	NO RECORD					
27	-EPE	03	48	03.3	1.0	1.0
	+EPN	03	48	03.6	1.0	1.5
	+EPZ	03	48	03.2	1.0	1.5
27-28	NO RECORD					
28	+IPE	16	37	26.4	2.0	8.5
	+IPN	16	37	26.0	1.4	4.5
	-IPZ	16	37	26.0	1.3	8.0
	LP+LRN	16	59	20.6	15.0	3.0
	LP+LRZ	16	59	37.5	22.5	3.5
29	-EPE	22	01	13.5	0.6	1.2
	+EPN	22	01	13.5	0.6	1.8
	+EPZ	22	01	14.2	0.8	2.5
	-EPE	23	02	22.3	1.0	1.5
	+EPN	23	02	22.5	1.0	1.5
	-EPZ	23	02	22.4	0.9	1.5
MAR 02	+EPE	11	04	17.0	1.4	4.2
	+EPN	11	04	16.0	1.1	0.8
	+EPZ	11	04	17.0	1.4	5.0
	+EPE	13	38	34.0	1.0	1.4
	+EPN	13	38	34.0	0.9	1.0
	+EPZ	13	38	35.1	0.8	2.0
	+IPE	15	58	08.1	1.5	2.2
	+IPN	15	58	09.0	1.5	3.0
	+IPZ	15	58	08.2	1.3	1.5
	LP+LRZ	16	31	09.4	20.6	2.5
	+EXE	17	03	45.0	1.0	2.0
	-EXN	17	03	45.5	1.0	0.6
	+EXZ	17	03	46.0	1.1	1.0
03	+IPE	23	02	15.8	1.7	10.0
	+EPN	23	02	16.9	1.2	1.4
	+IPZ	23	02	15.7	1.7	9.5
	LP+LRN	23	32	58.1	18.8	4.0
	LP-LRZ	23	32	52.5	22.5	6.0
04	+IPE	03	02	45.0	2.0	22.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
MAR 04	-IPN	03	02	45.0	1.8	13.0
	+IPZ	03	02	44.9	2.0	16.0
	LP+PPE	03	06	13.1	9.4	6.0
	LP+PPN	03	06	18.8	9.4	4.5
	LP+PPZ	03	06	13.1	15.0	11.0
	+ISE	03	13	01.9	3.5	22.0
	+ISN	03	13	01.5	2.2	9.5
	+ISZ	03	13	01.5	2.1	2.8
	LP+LRE	03	38	35.6	19.7	23.5
	LP-LRZ	03	38	31.9	19.7	72.0
04-07	EXTREME MICROSEISMIC ACTIVITY					
08	-EPE	04	53	02.0	1.2	6.0
	+EPN	04	53	01.6	2.2	2.8
	+EPZ	04	53	01.5	1.5	2.9
	LP-LQN	05	29	52.5	16.9	4.0
	LP-LRE	05	32	31.9	18.8	5.0
	LP+LRZ	05	32	33.8	17.5	10.0
	+EPE	20	19	32.0	1.7	7.0
	-IPN	20	19	31.0	1.3	2.4
	+IPZ	20	19	31.0	1.1	1.5
	LP-LRE	20	54	11.3	22.5	5.0
	LP+LRN	20	54	13.1	21.6	7.5
	LP-LRZ	20	54	16.9	22.5	17.0
09	-EPN	10	27	59.4	1.5	3.5
	-EPZ	10	27	59.9	1.3	3.5
	+EPE	16	41	43.0	0.9	2.2
	+EPN	16	41	43.0	0.9	1.2
	-EPZ	16	41	43.0	1.0	1.5
10-11	NO RECORD					
12	-EPE	17	02	01.9	1.0	2.0
	-EPN	17	02	02.0	1.0	1.7
	-EPZ	17	02	01.2	0.8	0.9
13	+EPE	05	35	53.0	1.6	1.2
	+EPN	05	35	53.1	1.2	1.5
	-EPZ	05	35	53.2	1.3	2.0
	LP-LRE	06	14	11.3	22.5	4.0
	LP+LRZ	06	14	07.5	22.5	9.0
14	-IPE	12	49	39.8	1.5	3.2
	-IPN	12	49	39.6	1.5	5.0
	+IPZ	12	49	39.6	1.5	16.4

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
MAR 14-17	NO RECORD					
17	-IPE	14	34	39.8	1.2	3.0
	-IPN	14	34	39.8	1.2	4.0
	+IPZ	14	34	39.7	2.0	8.8
	-IPE	15	04	39.1	1.1	4.4
	-IPN	15	04	39.0	1.1	6.5
	+IPZ	15	04	39.0	1.2	9.0
	+IPE	21	56	33.5	1.1	1.5
	-IPE	21	56	33.3	0.8	1.5
	+IPZ	21	56	33.0	1.2	3.0
18	+EPE	15	22	38.0	1.6	2.0
	+EPN	15	22	37.0	1.0	0.5
	-IPE	19	56	52.1	2.2	2.5
	+IPZ	19	56	52.2	1.0	2.5
	-IPZ	19	56	52.0	1.1	4.1
19	+EPE	06	30	09.9	1.2	0.7
	+EPN	06	30	09.0	1.1	0.9
	+EPZ	06	30	08.5	1.1	1.0
20	+IPE	03	03	50.0	1.0	17.0
	+IPZ	03	03	50.0	1.0	5.5
	-IPZ	03	03	49.9	1.0	10.0
	+IPE	18	09	52.0	1.3	7.0
	+IPN	18	09	52.0	1.5	5.9
	+IPZ	18	09	52.0	2.0	14.2
	+IPE	18	16	23.4	1.4	6.7
	+IPN	18	16	23.5	1.2	6.2
	-IPZ	18	16	23.3	1.5	15.5
	LP-LRE	18	39	31.9	15.8	6.5
	LP+LRN	18	39	33.8	17.8	6.0
	LP-LRZ	18	39	31.9	20.6	3.0
21-23	EXTREME MICROSEISMIC ACTIVITY					
24	+IPE	04	57	59.0	1.9	11.2
	-IPZ	04	57	59.0	1.9	13.5
	LP+IPZ	04	57	59.1	13.1	60.5
	LP-EPE	05	01	03.0	15.0	7.5
	LP+EPPN	05	01	05.0	15.0	6.0
	LP+EPPZ	05	01	02.0	15.1	9.0
	+ISE	05	07	45.4	2.0	3.5
	+ISL	05	07	45.5	2.0	10.5
	LP+ISZ	05	07	50.6	11.3	29.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
MAR 24	LP+ESSE	05	13	26.3	18.8	25.5
	LP-ESSN	05	13	11.3	20.6	30.0
	LP-ESSZ	05	13	01.9	13.1	17.0
	LP-LRE	05	27	43.1	19.7	57.5
	LP+LRZ	05	27	30.9	22.5	94.5
	LP+LRN	05	27	46.9	22.5	32.0
	+IPE	09	52	05.0	1.1	3.5
	+IPN	09	52	06.0	1.3	5.5
	-IPZ	09	52	05.3	1.2	4.5
	+ESE	09	57	07.9	0.8	1.3
	+ESN	09	57	06.5	2.0	9.6
	+EXE	09	58	26.0	1.0	1.0
	+EXN	09	58	26.3	1.3	2.3
	+EXZ	09	58	25.5	1.0	1.6
25	LP-LRN	02	21	07.5	18.8	7.0
	LP-LRZ	02	21	05.6	16.9	3.0
	+EXE	08	29	08.5	1.3	2.5
	-EXZ	08	29	06.1	0.6	2.0
26	+EPE	13	27	35.0	0.8	0.5
	-EPN	13	27	35.0	0.9	1.0
	+EPZ	13	27	35.0	1.0	3.3
27	-IPE	02	47	00.4	1.5	6.5
	-IPN	02	47	00.0	1.3	3.6
	+IPZ	02	47	00.0	1.3	8.9
	LP-EPE	06	27	30.0	11.3	3.0
	LP-EPN	06	27	28.1	9.4	2.0
	+EPE	08	56	39.5	1.1	1.6
	-EPZ	08	56	38.5	2.0	7.0
	LP-ESE	09	02	28.1	11.3	5.0
	LP-ESN	09	02	30.0	11.3	4.5
	-IPE	19	53	47.9	1.0	9.0
	-IPN	19	53	47.9	1.4	13.0
	IPZ	19	53	47.9		
28	+EPE	14	08	19.0	1.0	1.8
	+EPN	14	08	19.7	1.3	3.5
	-EPZ	14	03	19.3	1.5	5.0
	+EPE	21	02	10.3	0.8	1.4
	+EPN	21	02	10.0	2.3	8.0
	EPZ	21	02	10.4		
29	EPE	00	16	16.9		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
MAR 29	-EPN	00	16	18.0	0.4	1.5
	EPZ	00	16	16.9		
	LP+EPE	06	04	30.0	11.3	6.5
	LP-EPN	06	04	25.3	11.3	4.5
29-02	EXTREME MICROSEISMIC ACTIVITY					
APR 02	-IPE	16	01	47.0	1.2	6.0
	+IPN	16	01	46.7	1.0	6.5
	+IPZ	16	01	46.5	2.0	8.6
03	+EPE	03	06	37.0	0.9	1.0
	-EPN	03	06	37.0	0.5	0.7
	+EPZ	03	06	37.0	0.7	1.0
04	-EPE	00	42	33.7	0.8	1.8
	-EPN	00	42	33.3	1.1	3.2
	-EPZ	00	42	33.0	1.5	3.5
04-05	EXTREME MICROSEISMIC ACTIVITY					
05	LP-ESE	01	00	48.8	15.0	10.5
	LP+ISN	01	00	51.7	13.8	12.5
	LP+ISZ	01	00	48.8	15.0	27.5
06	+EPE	03	07	32.0	2.4	7.1
	+EPN	03	07	31.9	2.0	2.0
	+EPZ	03	07	32.6	1.3	3.5
	LP-ESN	03	13	07.5	11.3	3.0
	LP-SCSE	03	17	50.6	9.4	3.0
	LP+SCSN	03	17	54.4	18.8	5.0
	LP-SCSZ	03	17	56.3	26.3	4.0
	LP+LRE	03	21	03.8	15.0	5.0
	LP+LRN	03	21	07.5	16.9	4.0
	LP+LRZ	03	21	09.4	15.0	9.0
	LP+ESE	14	13	45.0	8.4	3.5
	LP-ESN	14	13	39.4	17.8	5.0
	LP-SPE	14	15	07.5	13.1	5.5
	LP-SPZ	14	15	09.4	15.0	4.5
	LP+SSN	14	20	13.1	16.9	6.0
	LP+LRE	14	40	05.6	23.4	10.0
	LP+LRN	14	40	01.8	16.9	10.5
LP-LRZ	14	40	02.8	24.4	26.0	
07	+EPE	07	29	02.0	1.5	3.3
	-EPN	07	29	01.0	1.0	1.0
	+EPZ	07	29	02.0	0.7	0.5
08	+IPE	00	43	06.0	1.2	3.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
APR 08	-EPN	00	43	05.9	1.1	1.3	
	+IPZ	00	43	05.5	1.2	8.0	
	-EPE	02	58	58.5	1.0	1.0	
	+EPZ	02	58	57.7	1.0	1.5	
	LP+EPPE	02	59	39.4	11.3	2.0	
	LP+EPPN	02	59	33.8	8.4	4.0	
	LP+IPPZ	02	59	33.8	9.4	10.5	
	LP+EPSE	03	09	31.9	10.3	5.5	
	LP-IPSN	03	09	09.4	19.7	19.0	
	LP+IPSZ	03	09	12.2	15.9	14.0	
	LP-LRN	03	36	24.4	26.3	14.0	
	LP-LRZ	03	36	26.3	21.6	13.0	
	08-09	EXTREME MICROSEISMIC ACTIVITY					
	09	LP+EPPE	07	26	57.2	6.5	3.5
	LP EPPN	07	26	57.2			
	LP-EPPZ	07	26	54.5	14.8	6.0	
	LP-SPE	07	35	49.8	14.8	4.0	
	LP-SPN	07	35	53.5	18.5	4.5	
	LP+SPZ	07	35	51.7	16.6	6.0	
	LP+ESSE	07	41	24.4	15.0	7.5	
	LP-ESSN	07	41	20.6	16.9	8.0	
	LP+ESSZ	07	41	22.5	15.0	4.5	
	LP-LRE	08	04	09.4	24.4	8.0	
	LP-LRN	08	04	09.4	24.4	7.5	
	LP+LRZ	08	04	10.3	22.5	19.0	
	10	-EPE	10	41	25.3	1.0	1.1
		+EPN	10	41	25.0	1.0	2.0
		+EPZ	10	41	25.0	1.0	2.2
-EPN		11	27	52.8	0.8	0.7	
-EPZ		11	27	52.8	0.9	1.5	
-EPE		13	09	12.3	0.8	1.3	
-EPN		13	09	11.7	0.8	0.9	
+EPZ		13	09	12.6	1.0	2.2	
+EPN		13	25	01.0	0.9	1.1	
+EPZ		13	25	02.0	1.0	2.0	
-EPN		13	59	34.7	1.0	0.6	
-EPZ		13	59	35.0	1.0	1.0	
-EPN		15	09	03.3	0.9	1.5	
+EPZ		15	09	02.9	1.3	2.2	
+IPE	17	24	07.0	1.0	5.5		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
APR 10	+IPN	17	24	36.6	1.3	5.9	
	-IPZ	17	24	36.3	1.4	10.0	
	+ESE	17	33	40.7	2.0	4.0	
	+ESN	17	33	41.1	1.7	6.5	
11	-ESZ	17	33	40.0	0.8	1.0	
	+EXE	13	24	19.0	1.1	1.6	
	+IXN	13	24	13.0	1.3	2.3	
	-IXZ	13	24	13.0	1.5	6.0	
12	-EPE	12	17	25.0	0.7	1.0	
	-EPN	12	17	25.3	1.8	2.7	
12-14	EXTREME MICROSEISMIC ACTIVITY						
14	+FPE	15	34	36.5	2.0	4.6	
	-EPN	15	34	36.1	1.0	1.2	
	-EPZ	15	34	36.1	0.7	1.5	
	LP+ISE	15	41	28.1	9.4	8.5	
	LP+ESN	15	41	26.3	13.1	4.0	
	LP+ISZ	15	41	33.0	13.1	9.5	
	LP-LRE	15	51	23.1	22.5	33.0	
	LP+LRN	15	51	28.1	18.8	34.0	
	LP+LRZ	15	51	22.5	24.4	52.0	
	15	+EPE	22	05	02.6	1.2	3.2
+EPN		22	05	34.3	0.8	1.5	
-EPZ		22	05	03.0	1.8	2.0	
-EPE		22	22	31.1	1.5	3.7	
+EPN		22	22	31.0	0.7	0.8	
+EPZ		22	22	31.4	0.7	0.8	
16		-EPE	20	27	1.0	0.5	0.6
		+EPN	20	27	38.3	1.0	1.5
		-EPZ	20	27	38.5	1.3	1.7
		+EPE	19	23	07.3	0.7	0.7
	-EPN	19	25	38.0	0.7	1.5	
	+EPZ	19	28	30.0	1.0	1.3	
	+EPE	21	55	08.8	0.6	1.1	
	+EPN	21	55	31.3	0.7	1.0	
	-EPZ	21	55	32.1	0.7	1.5	
	17	+EPE	20	38	55.5	0.7	1.7
-EPN		20	38	56.1	1.0	1.0	
+EPZ		20	38	56.2	1.4	2.6	
18	-IPE	00	18	27.0			
	-IPN	00	18	25.0	1.7	6.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
APR 18	+IPZ	00	18	26.6	1.0	8.5
	+EXE	00	21	20.5	1.0	2.0
	+EXN	00	21	21.7	0.8	1.0
	+EXZ	00	21	22.1	1.0	2.5
	+IPE	00	25	16.4	0.8	3.0
	+IPN	00	25	16.0	0.9	4.0
	+IPZ	00	25	16.2	0.3	2.9
	EXE	00	28	14.8		
	-EXN	00	28	18.0	1.0	9.5
	-EXZ	00	28	14.0	1.2	12.0
	LP+PCPE	00	30	05.6	16.9	7.5
	LP-PCPN	00	30	06.6	18.8	8.0
	LP-PCPZ	00	30	10.3	16.9	20.0
	LP-LRE	00	37	07.5	11.3	5.0
	LP+LRN	00	37	56.3	12.2	8.5
	+EPE	00	57	39.0	1.0	3.5
	+EPN	00	57	39.8	1.0	4.0
	EPZ	00	57	40.0		
	LP-EPE	14	32	03.7	15.0	8.0
	LP+IPN	14	32	01.9	15.9	11.0
LP+IPZ	14	32	00.0	15.9	26.0	
IPE	19	51	34.5			
+IPN	19	51	34.5	0.7	4.0	
IPZ	19	51	34.5			
19-21	NO RECORD					
21	-IPE	20	37	26.1	1.1	1.7
	+IPN	20	37	26.0	1.1	2.1
	+IPZ	20	37	25.8	0.9	1.5
	+ESE	20	46	56.1	0.9	1.7
22	-ESN	20	46	55.8	1.1	0.8
	+ESZ	20	46	56.7	1.0	1.0
	+EPE	23	54	08.0	1.0	2.0
	-EPN	23	54	07.6	1.0	1.5
24	+EPZ	23	54	07.5	1.0	2.0
	+IPE	11	16	20.6	1.5	3.7
	+IPN	11	16	20.3	1.3	1.8
	-IPZ	11	16	20.6	1.5	8.0
25	-EPE	13	34	58.0	0.7	0.8
	+EPN	13	34	55.0	1.2	2.3
	EPZ	13	34	57.0		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
APR 25	-IPE	03	37	04.8	1.2	12.5	
	+IPN	03	37	04.5	1.2	8.0	
	+IPZ	03	37	04.8	1.2	24.0	
	-EPE	03	39	58.0	0.8	0.8	
	+EPN	03	39	57.8	1.0	1.8	
	-EPZ	03	39	58.1	0.4	1.0	
	LP ESE	22	34	35.6			
	LP+ESN	22	34	31.9	12.2	5.5	
	LP+SSSE	22	37	24.4	10.4	4.0	
	LP-SSSN	22	37	28.1	13.1	10.0	
	LP-SCSE	22	38	56.3	16.9	10.5	
	LP+SCSN	22	38	58.1	17.8	18.0	
	LP-LRE	22	43	28.1	13.1	6.5	
	LP+LRN	22	43	47.8	12.2	12.5	
	26	+EPE	12	07	45.0	1.0	0.6
		+EXN	12	07	49.5	1.3	2.0
		-EXZ	12	07	49.0	1.0	2.1
	26-27	EXTREME MICROSEISMIC ACTIVITY					
	28	+EPE	05	18	11.3	1.1	1.5
		-EPN	05	18	12.0	0.7	0.8
+EPZ		05	18	13.8	1.0	1.5	
-IPE		08	11	37.4	1.2	1.5	
-EPN		08	11	38.1	0.7	1.0	
28-29	-IPZ	08	11	37.2	1.2	7.0	
	NO RECORD						
	LP+ESE	06	54	56.3	13.1	5.0	
	LP+ESN	06	54	54.4	11.3	10.0	
29	LP+LRE	07	22	13.1	16.9	8.0	
	LP-LRN	07	24	11.3	15.0	6.0	
30	-IPE	06	44	51.0	1.0	1.5	
	+IPN	06	44	51.0	0.8	1.3	
	+IPZ	06	44	50.4	1.6	5.0	
	-ESE	06	54	49.3	4.5	2.8	
	+ESN	06	54	50.8	1.5	0.9	
	+ESZ	06	54	51.9	2.0	2.0	
	+EPN	08	26	13.0	0.9	0.5	
	-EPZ	08	26	13.9	0.5	0.7	
	+EPE	15	34	56.0	1.8	1.3	
	+EPN	15	34	55.4	1.2	0.8	
	+EPZ	15	34	55.0	1.0	1.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
MAY 01	+EPZ	11	38	25.6	1.0	1.0	
	+EPN	14	58	05.6	0.5	0.9	
	+EXZ	14	58	05.5	0.3	2.1	
	02	+EPE	14	38	50.9	2.0	2.0
		+EPN	14	38	50.6	1.7	2.0
		+EPZ	14	38	52.0	1.5	2.0
		-IPE	15	58	49.0	1.8	2.5
		+IPN	15	58	49.0	1.2	2.3
		+IPZ	15	58	48.8	1.3	7.0
	03	+EPE	01	44	49.0	0.6	1.0
		-EPN	01	44	49.3	0.6	0.6
		+EPZ	01	44	49.7	0.9	2.9
		+EPE	11	38	25.0	1.5	3.1
		+EPN	11	38	23.5	0.7	0.8
		+EPZ	11	38	23.5	1.0	0.8
		+IPE	18	29	26.0	1.0	2.0
		-EPN	18	29	25.9	1.2	1.0
		+EPZ	18	29	25.3	1.2	4.0
		-EPE	20	46	17.5	0.5	1.5
		+EPN	20	46	19.5	0.8	1.0
		+EPE	22	19	46.0	0.8	1.0
	04	+EPN	22	19	48.0	1.0	3.5
		+EPZ	22	19	48.0	1.0	4.3
		+IPE	02	18	19.5	1.0	1.0
		+IPN	02	18	19.9	0.8	1.0
		-IPZ	02	18	20.0	1.5	6.0
		-EPE	08	42	42.0	1.8	1.5
		-EPN	08	42	42.2	1.8	1.5
		+EPZ	08	42	43.0	1.2	1.1
		-IPE	14	06	38.0	1.5	6.0
-IPN		14	06	37.2	1.8	4.3	
+IPZ		14	06	37.2	2.2	8.4	
LP+ISE		14	14	54.4	12.2	17.5	
LP+ESN		14	14	56.3	13.1	9.0	
LP+LRE		14	26	05.6	28.1	13.0	
LP-LRN		14	25	52.5	26.3	28.0	
+EPE		17	39	06.0	1.8	1.9	
+EPN		17	39	06.7	1.2	1.3	
+EPZ		17	39	07.4	1.0	1.2	
05	+IPE	05	04	45.9	1.1	3.8	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
MAY 05	-IPN	05	04	45.7	1.3	3.8
	+IPZ	05	04	45.7	1.4	12.0
	+ISE	05	14	32.2	2.8	4.5
	-ISN	05	14	32.5	0.8	7.0
	-ISZ	05	14	32.4	1.5	3.0
	LP+SCSE	05	15	03.8	13.1	22.5
	LP+PSN	05	15	31.9	20.6	20.0
	LP-SSE	05	20	21.6	18.8	18.5
	LP+SSN	05	20	21.6	22.5	14.5
	LP-LRE	05	28	26.3	41.3	24.0
	LP-LRN	05	28	29.1	39.4	34.5
	+EPE	16	48	50.5	1.1	6.0
	+EPN	16	48	49.5	1.2	1.1
06	+EPZ	16	48	49.2	1.5	3.0
	-EPE	00	42	18.2	1.7	1.4
	-EPN	00	42	17.9	0.8	0.5
	+IPZ	00	42	17.8	1.0	3.5
	+EPE	07	39	00.0	2.0	2.1
07	-EPZ	07	39	00.5	1.0	6.0
	+EPE	13	06	04.0	1.5	2.2
	-EPN	18	06	04.3	1.4	2.1
	-EPZ	13	06	04.9	1.2	1.9
	+IPE	18	38	57.0	1.8	3.2
09	+EPN	18	38	56.8	1.4	1.4
	+IPZ	18	38	56.2	1.4	5.9
	+EPZ	20	19	00.0	2.1	1.5
	+EPE	05	27	59.0	1.0	1.7
	+EPZ	05	27	58.9	1.4	4.5
11	-EPE	10	11	52.9	1.0	0.6
	-EPN	10	11	54.2	1.5	0.9
	-EPZ	10	11	52.7	1.5	1.8
	+EPE	11	37	30.0	1.5	2.8
	+EPN	11	37	31.0	0.6	0.8
	+EPZ	11	37	29.2	1.0	0.6
	LP+ESE	11	44	22.5	12.2	5.0
	LP-LRE	11	53	38.4	26.3	12.0
	-IPE	15	59	04.0	0.6	0.5
	-EPN	15	59	04.4	1.1	1.6
-IPZ	15	59	04.1	1.0	1.5	
LP+ISE	16	05	57.2	15.0	22.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
MAY 11	LP-LRE	16	15	12.2	27.2	27.0
	+IXN	16	16	00.9	9.0	3.5
	+IXZ	16	15	55.0	13.0	4.5
	-EPE	17	18	33.4	1.2	1.4
	+EPN	17	18	32.5	1.0	1.1
	+EPZ	17	18	32.5	1.1	2.0
	LP+ESE	17	26	18.8	13.1	10.5
	LP-LRE	18	02	30.0	21.6	9.5
	+IPE	17	57	02.5	1.0	1.0
	-EPN	17	57	03.9	0.6	0.8
	+IPZ	17	57	03.0	1.2	3.1
12	+EPE	20	09	39.3	1.1	1.0
	-EPN	20	09	40.0	1.9	1.7
	+IPZ	20	09	39.4	1.0	1.9
	+IPE	07	17	49.7	1.1	1.5
	-IPN	07	17	50.4	0.9	1.0
	+IPZ	07	17	49.6	1.1	2.5
	-EPE	10	07	27.3	1.0	0.9
	+EXZ	10	07	35.9	1.0	0.9
	+EPE	19	11	41.3	1.1	1.0
	+EPN	19	11	41.2	0.6	0.5
13	+EPZ	19	11	42.5	0.7	0.6
	+EPE	07	52	13.0	1.2	1.2
	-EPN	07	52	13.0	1.0	1.0
	+EPZ	07	52	13.0	1.1	1.4
	-EPE	10	14	40.0	1.4	1.9
	+EPN	10	14	39.0	1.0	0.7
	+EPZ	10	14	38.9	1.0	2.7
	-EPE	13	39	36.5	1.1	0.8
	+EPN	13	39	38.0	1.1	0.6
	-IPZ	13	39	37.0	1.5	3.7
14	+EPE	14	09	12.0	1.2	4.7
	+EPN	14	09	12.0	1.0	5.3
	+IPZ	14	09	11.1	1.3	6.4
	+IPE	20	21	03.5	0.7	1.5
	-EPN	20	21	02.0	0.8	1.0
	+EPZ	20	21	03.9	0.5	0.7
	-IPE	05	11	33.5	0.8	1.2
	-IPN	05	11	33.6	1.2	1.7
	+IPZ	05	11	33.0	0.9	1.8
	15					

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
MAY 15	+EPN	08	21	42.0	2.0	1.0	
	-IPZ	08	21	40.8	0.8	1.3	
	-EPE	20	47	21.8	0.7	1.0	
	+EPN	20	47	21.5	0.9	0.7	
	-EPZ	20	47	21.0	0.9	1.5	
	-IPE	22	08	44.5	1.7	3.5	
	-IPN	22	08	44.0	1.5	1.8	
	+IPZ	22	08	44.1	1.7	12.0	
	LP-ISE	22	19	26.3	13.1	25.5	
	LP+ISN	22	19	23.4	15.0	20.0	
	LP+ISE	22	20	26.3	14.1	11.0	
	LP+IPPSE	22	21	04.7	11.3	11.5	
	LP+ISSE	22	25	09.4	14.1	14.0	
	LP-LQN	22	37	28.1	30.0	14.0	
	LP+LRN	22	40	48.8	20.6	13.0	
16	+EPE	23	41	01.7	1.0	0.5	
	+EPN	23	41	02.4	0.7	1.1	
	+IPZ	23	41	02.0	1.0	5.0	
	+IPE	15	50	02.0	0.9	0.8	
	+EPN	15	50	02.0	0.6	0.5	
	+IPZ	15	50	01.0	1.0	1.1	
	+IPE	20	14	47.6	1.0	1.6	
	+EPN	20	14	47.9	1.1	1.8	
	+EPZ	20	14	48.0	0.7	0.9	
	+IPN	22	20	11.3	1.6	1.8	
	+IPZ	22	20	12.1	1.2	2.0	
	LP-LRN	22	43	03.8	18.8	5.0	
	17	-IPE	03	17	16.2	1.9	1.6
		+EPN	03	17	16.0	0.8	0.6
		+IPZ	03	17	14.7	1.0	2.9
LP+EPPN		03	17	48.8	9.4	3.0	
LP-SKSE		03	25	43.1	11.3	10.5	
LP-ESPN		03	27	28.1	16.9	14.0	
LP-SSE		03	33	22.5	12.2	11.0	
-IPE		11	38	58.0	1.0	1.3	
-EPN		11	38	57.9	0.5	1.0	
+EPZ		11	38	58.3	0.5	0.7	
+IPE		22	06	34.2	1.7	2.9	
-IPN		22	06	34.3	1.2	1.5	
-IPZ	22	06	34.0	1.2	3.8		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
MAY 18	-EPE	02	14	30.4	1.3	5.3	
	-IPN	02	14	30.1	1.4	3.7	
	-IPZ	02	14	29.9	1.5	13.5	
	-EPE	05	07	15.9	1.1	1.1	
	+EPN	05	07	17.0	1.2	1.5	
	-EPZ	05	07	15.5	1.5	2.7	
	-EPE	06	12	36.9	1.5	1.0	
	+EPN	06	12	36.3	0.9	0.5	
	-EPZ	06	12	36.1	1.2	2.5	
	LP+EPPE	06	14	30.0	18.8	5.5	
	LP-EPPN	06	14	30.0			
	LP+ESE	06	19	05.6	17.8	7.5	
	LP+ESN	06	19	07.5	16.9	5.5	
	LP+SSC	06	22	15.9	16.9	5.5	
	LP+SSN	06	22	15.9	15.9	7.5	
	LP-LQE	06	27	16.9	18.8	20.0	
	LP-LQN	06	27	15.0	20.6	14.0	
	LP-LRE	06	28	37.5	29.1	23.0	
	LP-LRN	06	28	31.9	16.9	19.5	
	+EPE	06	50	11.5	1.1	1.5	
	+EPN	06	50	10.0	1.2	1.3	
	-EPZ	06	50	09.9	1.9	3.2	
	+IPE	07	44	19.0	1.9	3.1	
	+IPN	07	44	19.9	1.3	2.5	
	-IPZ	07	44	20.2	1.6	8.0	
	-EPE	21	24	52.2	1.0	0.6	
	+EPN	21	24	53.0	1.2	1.5	
	-EPZ	21	24	53.0	1.8	2.7	
	19	-EPE	04	24	53.0	1.0	1.0
		+EPN	04	24	52.0	1.2	0.8
-EPZ		04	24	54.1	1.0	1.0	
-EXE		04	31	19.0	1.3	2.2	
+EXN		04	31	20.0	1.2	1.8	
+EXE		04	32	37.3	3.0	3.9	
+EXN		04	32	38.4	2.0	1.8	
+EPE		13	43	46.8	0.8	0.3	
-IPN		13	43	46.9	0.9	0.9	
-IPZ		13	43	46.9	1.0	1.9	
+IPE		15	34	36.0	1.7	3.8	
-IPN		15	34	36.0	1.7	3.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
MAY 19	+IPZ	15	34	36.0	2.0	8.1
	LP+EPPE	15	36	16.9	9.4	1.5
	LP+EPPN	15	36	20.6	11.3	2.0
	LP+ESE	15	41	02.8	13.1	4.0
	LP-ESN	15	41	01.9	15.0	4.0
	LP+LRE	15	49	30.0	15.9	5.0
	LP+LRN	15	49	30.0	15.9	8.0
	+IPE	19	22	24.3	1.2	2.2
	+IPN	19	22	24.8	1.1	3.4
	+IPZ	19	22	24.2	1.2	7.2
	-ISE	19	32	08.3	5.0	6.0
	-ISN	19	32	08.0	2.0	2.2
	+ISZ	19	32	09.3	1.4	2.3
	20	-ISE	04	34	18.1	2.8
+ISN		04	34	19.0	1.8	12.5
+ISZ		04	34	19.0	2.0	10.5
+EPE		05	22	26.0	2.7	2.5
-EPN		05	22	26.5	2.0	2.1
+ESE		07	05	55.0	1.3	1.2
-ESN		07	05	57.2	2.9	7.5
+ESZ		07	05	56.0	2.3	3.4
-EPE		20	38	28.9	1.1	2.5
+EPN		20	38	28.2	0.9	4.5
+EPZ		20	38	28.6	1.1	2.9
-IPE		22	13	21.2	1.0	1.4
+IPN		22	13	21.0	1.0	1.6
-IPZ		22	13	21.0	1.0	3.5
21	-EPN	01	50	55.0	1.7	1.0
	+EPZ	01	50	54.1	1.9	1.9
	-IPE	04	24	05.0	1.0	1.0
	+IPN	04	24	07.0	1.0	1.9
	-IPZ	04	24	05.0	1.0	2.4
	LP-SKSE	04	34	20.6	9.4	5.0
	LP-SKSN	04	34	18.8	9.4	2.0
	LP-ESE	04	34	48.8	9.4	4.0
	LP-ESN	04	34	50.6	11.3	11.0
	LP-FSE	04	36	07.5	11.3	9.0
	LP-FSN	04	36	07.5	11.3	8.5
	-EPE	06	21	57.8	1.4	1.5
	+EPZ	06	21	58.0	1.2	1.4

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
MAY 21	-IPE	06	55	14.9	1.4	4.0	
	+IPN	06	55	14.4	1.4	1.7	
22	-IPZ	06	55	14.5	1.9	11.0	
	-EPN	12	43	31.0	1.1	2.9	
	-EPZ	12	43	31.2	1.0	1.0	
	+IPE	03	13	25.0	1.6	11.0	
	-IPN	03	13	24.9	1.3	5.3	
	+IPZ	03	13	25.0	1.2	30.5	
	+EXE	10	10	37.9	2.0	3.0	
	+EXN	10	10	38.0	1.0	1.5	
	-EPZ	10	10	36.0	0.9	3.0	
	+EPE	16	04	00.3	0.5	1.2	
	+EPN	16	04	00.2	0.3	0.6	
	+EPZ	16	04	00.0	0.8	4.5	
	23	+EPE	05	55	31.2	1.2	2.0
		-EPN	05	55	30.3	1.0	1.0
+EPZ		05	55	29.2	1.0	2.0	
+IPE		06	14	20.6	1.0	2.0	
+IPN		06	14	21.0	1.0	1.5	
+IPZ		06	14	20.5	1.5	7.0	
LP+EPPE		06	18	11.3	9.4	7.0	
-EXE		06	24	30.9	0.9	0.9	
-EXN		06	24	33.5	1.0	1.5	
-EXZ		06	24	29.5	1.2	2.1	
LP+SKSE		06	24	45.9	10.3	14.5	
LP+ISE		06	25	26.3	13.1	11.0	
LP+ISN		06	25	24.4	14.1	14.0	
LP+IPPSE		06	27	30.9	15.9	41.5	
LP-EPPSN	06	27	31.9	14.1	7.5		
LP-LRE	06	49	39.4	30.9	32.5		
+IPE	16	45	24.0	1.0	2.4		
+IPN	16	45	24.9	1.1	2.0		
-IPZ	16	45	24.0	1.3	10.5		
LP+SKSE	16	55	50.6	10.3	4.0		
LP+SKSN	16	55	51.6	13.1	4.0		
LP-ISE	16	56	13.1	11.3	14.0		
LP-ESN	16	56	13.1				
LP-PPSE	16	57	50.6	13.1	6.5		
LP-PPSN	16	57	48.8	12.2	5.0		
LP-ESSE	17	02	07.5	15.0	6.0		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
MAY 24	+IPE	05	22	08.5	1.4	2.4	
	+IPN	05	22	08.1	1.0	1.1	
	+IPZ	05	22	07.6	1.0	1.5	
	+EPE	11	43	22.1	1.3	0.6	
	+EPZ	11	43	22.0	0.7	1.2	
	+IPE	14	31	59.0	1.2	0.7	
	+IPN	14	31	59.8	0.6	0.6	
	-IPZ	14	31	59.0	0.9	0.6	
	25	-EPE	03	05	05.1	1.0	1.0
		+EPN	03	05	06.3	0.5	0.6
		+EPZ	03	05	07.0	1.0	0.6
		+EPE	06	57	04.9	1.0	1.0
		+EPN	06	57	05.0	1.2	0.6
		+EPZ	06	57	05.0	1.2	0.6
+IPE		16	25	29.1	1.3	2.2	
+IPN		16	25	28.8	1.1	1.5	
-IPZ		16	25	28.8	1.4	5.0	
+EPE		16	53	18.0	1.2	1.3	
+EPN		16	53	17.2	1.1	1.0	
+EPZ		16	53	17.1	1.3	2.0	
-EPE		18	14	00.0	1.6	1.5	
+EPN		18	14	00.0	1.1	0.9	
+EPZ	18	13	59.0	1.4	3.0		
27	-EPE	08	28	48.8	2.0	2.2	
	+EPN	08	28	48.3	1.0	0.5	
	+IPZ	08	28	48.0	1.9	4.0	
	+EPE	08	36	23.8	1.1	1.2	
	+EPN	08	36	24.3	1.0	0.5	
	+IPZ	08	36	23.9	1.0	3.9	
	+EPE	01	25	29.8	0.1	0.5	
	+EPN	01	25	28.3	0.8	0.3	
	+EPZ	01	25	28.1	1.1	1.0	
	-EPE	07	07	13.0	1.2	0.9	
	+EPN	07	07	14.9	1.0	1.4	
	+IPZ	07	07	13.7	1.2	4.3	
	-EPN	08	25	53.2	1.0	1.1	
	+EPZ	08	25	52.0	0.8	0.5	
+EPE	18	25	57.1	0.9	1.0		
28	-EPN	18	25	57.0	1.0	0.5	
	+EPE	06	18	28.0	1.7	1.7	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
MAY 28	+EPN	06	18	26.6	1.2	0.4	
	+EPZ	06	18	26.5	1.3	1.1	
29	+EPE	10	33	03.7	1.2	2.1	
	+EPN	10	33	03.9	1.1	1.5	
	+IPZ	10	33	03.5	1.0	6.0	
	LP-ESE	12	48	04.7	9.4	4.5	
	LP-ESN	12	48	04.7	11.3	5.0	
	LP-PSE	12	49	14.1	14.1	8.0	
	LP+PPSN	12	50	48.5	15.0	6.0	
	LP+LRE	13	16	46.9	22.5	12.0	
	LP+LRN	13	16	43.1	22.5	14.0	
	30	LP+EPN	03	18	58.1	5.6	2.0
		+EPE	03	09	30.0	1.0	1.5
		-EPZ	03	09	28.7	0.8	1.5
		+IPE	03	18	57.9	2.0	8.0
		+IPN	03	18	58.0	2.0	5.1
-IPZ		03	18	58.0	2.1	21.2	
LP-ESE		03	27	11.3	11.3	6.0	
LP-ESN		03	27	11.3	10.3	3.0	
+EPE		03	48	27.8	1.5	1.6	
-IPZ		03	48	26.9	2.3	5.5	
+ESN		03	51	47.2	0.6	0.3	
-ESZ		03	51	47.2	1.0	2.0	
+EPE		21	01	12.9	1.1	2.0	
+EPN		21	01	13.0	0.9	1.1	
+EPZ	21	01	11.9	0.8	0.8		
+EPN	21	31	48.0	0.9	0.6		
+EPZ	21	31	49.0	0.9	1.1		
-EPE	23	26	33.5	1.1	2.3		
-EPN	23	26	32.1	1.1	2.0		
-EPZ	23	26	32.8	1.2	3.1		
31	-EPN	02	09	22.0	1.0	0.8	
	-IPZ	02	09	22.0	1.0	2.3	
	LP+LRN	06	04	09.4	18.8	4.0	
	+EPE	18	26	05.9	0.7	0.5	
	+EPN	18	26	07.0	0.6	0.8	
	-EPZ	18	26	08.0	1.0	1.5	
	+EPN	20	17	15.0	1.1	0.7	
	+EPZ	20	17	15.8	1.1	1.3	
	-EPE	20	50	32.0	1.0	1.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
MAY 31	-EPZ	20	50	30.3	1.1	1.0
JUN 02	+IPE	18	55	28.8	1.2	0.5
	+IPN	18	55	27.9	1.2	1.6
	-IPZ	18	55	28.0	1.5	2.7
	LP-ESE	19	02	26.3		
	LP+ESN	19	02	27.2	12.9	4.0
	LP+LRE	19	11	15.0	16.9	3.5
	LP+LRN	19	11	15.0	18.8	4.0
03	+EPE	08	34	04.0	1.0	0.6
	+EPN	08	34	06.0	0.8	0.5
	+EPZ	08	34	05.5	0.9	0.6
	+EPE	11	43	01.7	1.1	3.4
	+EPN	11	43	01.8	1.1	2.0
	+EPZ	11	43	01.7	1.1	5.5
	-IPE	13	56	51.1	1.5	7.0
	+IPN	13	56	51.0	1.5	8.0
	+IPZ	13	56	50.0	0.8	1.0
	-ESE	14	06	01.8	2.0	4.2
	-ESN	14	06	02.0	1.4	2.0
	-ESZ	14	06	02.1	1.2	1.5
	+EPE	16	57	42.7	0.9	0.6
	+IPZ	16	57	42.5	1.1	2.0
	+IPPE	16	57	48.0	2.6	10.9
	+IPPN	16	57	49.5	1.5	5.3
	+IPPZ	16	57	48.0	3.4	33.0
	+ESE	17	08	12.0	5.0	7.0
	+ESN	17	08	14.0	2.0	1.6
	+ESZ	17	08	15.4	1.2	1.0
	LP+ESN	17	09	13.8	15.8	11.0
	LP+ESZ	17	10	50.6	15.0	18.5
	LP-LRZ	17	32	18.8	50.9	38.5
	+IPE	21	17	02.0	1.0	1.1
	+IPN	21	17	02.2	1.4	2.0
	+IPZ	21	17	02.0	1.3	5.5
04	-EPE	03	10	24.2	0.7	1.0
	-EPN	03	10	24.6	1.0	2.0
	+EPZ	03	10	24.0	1.1	2.1
	+IPE	23	51	07.0	1.1	5.0
	+IPN	23	51	07.0	1.0	3.7
	-IPZ	23	51	07.0	1.4	27.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUN 05	LP-EPPN	08	36	46.9	15.0	2.0
	LP+ESN	08	44	30.0	13.1	2.5
	+EPE	12	25	07.7	0.6	0.9
	-EPN	12	25	06.0	0.9	0.6
	+EPZ	12	25	07.1	1.1	0.6
	+IPE	08	33	06.5	0.9	3.0
	+IPN	08	33	07.1	1.3	1.8
	+IPZ	08	33	06.5	2.1	8.5
	-IPE	13	15	43.0	0.9	1.3
	+EPN	13	15	43.2	0.8	1.8
	+EPZ	13	15	42.0	1.0	0.7
06	-IPE	12	02	10.0	1.2	2.0
	+IPN	12	02	09.0	1.2	2.0
	-IPZ	12	02	10.0	1.2	6.9
	+EPN	13	06	19.1	0.9	0.5
	+EPZ	13	06	18.7	1.2	1.8
	-EPE	13	04	20.0	0.9	1.0
	+EPN	13	04	20.9	1.0	0.8
	+EPZ	13	04	19.3	1.4	2.8
	+EPE	21	06	33.0	1.0	1.1
	-EPN	21	06	33.9	1.2	1.0
	-EPZ	21	06	33.0	2.1	3.0
07	+EPZ	06	08	42.9	1.3	1.9
	+EPN	07	50	43.2	1.2	0.8
	+EPZ	07	50	44.6	1.2	1.6
	+EXE	07	54	05.7	1.9	1.9
	+EXZ	07	54	05.9	1.2	2.0
	LP+EPDZ	07	54	50.5	11.3	4.0
	LP+EPSZ	07	04	53.4	13.9	10.0
	LP+LRZ	07	24	35.6	24.4	19.5
	+EXE	08	52	28.5	1.0	0.7
	-EXN	08	52	28.6	1.0	1.0
	+EXZ	08	52	29.0	1.0	1.5
	+EPE	14	43	50.7	1.3	0.9
	+EPN	14	43	51.7	1.1	1.0
	+EPZ	14	43	51.0	2.0	2.0
	LP-LRZ	15	26	50.0	29.1	7.0
	+EPE	19	11	30.1	1.0	0.6
	+EPN	19	11	29.3	1.2	0.9
	+EPZ	19	11	29.0	1.2	1.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S					H	M	S		
JUN 07	+EPE	21	04	57.8	1.3	0.8	JUN 10	+EPE	14	57	09.4	1.2	0.6
	+IPN	21	04	57.0	0.9	0.5		+EPZ	14	57	10.0	1.3	1.0
08	-IPZ	21	04	56.7	1.2	2.2	11	+IPE	20	19	03.5	1.3	1.5
	+IPE	01	39	07.9	1.2	2.9	+EPN	20	19	03.9	1.4	1.0	
	-IPN	01	39	08.0	1.0	1.5	+EPZ	20	19	03.5	1.3	0.9	
	-IPZ	01	39	07.7	1.1	6.9	12	LP+LRZ	02	00	31.9	22.5	3.5
	+EPE	01	41	03.9	0.4	2.4	+EPE	03	13	12.2	1.2	0.9	
	+EPN	01	41	03.4	1.0	1.4	+IPN	03	13	14.2	1.1	0.9	
	-EPZ	01	41	02.0	0.8	1.0	+IPZ	03	13	13.9	1.2	1.9	
	+EPE	02	29	09.3	1.5	0.9	LP+LRE	03	44	18.8	16.9	3.0	
	+EPN	02	29	09.5	1.1	0.5	LP+LRZ	03	44	20.6	21.6	6.5	
	+EPZ	02	29	09.3	1.0	0.8	+EPN	05	39	34.4	2.0	0.7	
09	-IPE	09	35	06.8	1.1	1.4	+EPZ	05	39	33.0	1.4	1.1	
	+IPN	09	35	06.5	1.2	0.9	LP-LRE	06	15	56.3	20.6	2.0	
	+IPZ	09	35	05.9	2.0	2.5	LP+LRN	06	15	54.4	16.9	1.5	
	LP+LRZ	10	11	46.9	20.6	6.0	LP-LRZ	06	15	58.1	19.7	4.0	
	+IPE	17	58	32.0	1.0	1.5	+EPE	21	09	45.0	1.2	0.7	
	-IPN	17	58	32.2	0.7	1.0	+EPN	21	09	46.2	0.7	0.6	
	-IPZ	17	58	32.0	1.1	4.0	+EPZ	21	09	45.0	1.2	0.7	
	LP+LRZ	01	13	04.6	23.1	5.0	13	LP+ESN	18	59	36.6	13.1	4.0
	+EPE	14	38	06.8	0.9	0.2	LP-ESZ	18	59	36.6	15.0	4.5	
	-EPZ	14	38	06.2	0.8	1.0	LP-LRZ	19	19	42.2	22.5	5.0	
10	-EXE	14	40	15.0	1.0	0.8	+IPE	22	15	18.9	1.1	1.9	
	+EXZ	14	40	14.1	1.6	1.3	-IPN	22	15	18.0	1.0	1.2	
	LP+LRE	15	09	18.8	33.8	4.5	+IPZ	22	15	17.9	1.9	9.5	
	LP+LRZ	15	09	12.9	30.0	11.5	LP+ESE	22	25	49.7	13.1	4.5	
	-IPE	16	43	47.0	1.2	1.2	LP-ESN	22	25	49.7	13.1	5.5	
	-IPN	16	43	47.0	1.1	0.7	LP+LRZ	22	47	35.6	22.5	3.5	
	-IPZ	16	43	46.7	1.6	2.3	14	-EPE	18	48	52.2	1.0	0.6
	+EPE	19	58	09.0	1.0	1.0	-EPN	18	48	52.0	0.9	0.9	
	+EPN	19	58	09.6	1.8	0.7	+IPZ	18	48	53.4	1.6	4.4	
	+EPZ	19	58	11.0	1.9	2.0	15	-EPE	06	22	11.2	1.0	1.0
10	+EPE	23	05	26.0	1.1	0.7	+EPZ	06	22	10.8	1.1	1.7	
	+EPZ	23	05	26.9	1.2	1.0	LP-ESE	06	33	22.5	11.3	4.5	
	-ISE	23	10	42.3	1.1	1.8	LP-ESN	06	33	18.8	14.1	8.0	
	+ISZ	23	10	42.0	1.0	2.1	LP+ESZ	06	33	22.5	15.0	2.5	
	+EPE	10	39	11.3	1.3	1.0	LP-SKSE	06	32	46.9	11.0	4.0	
	+EPZ	10	39	10.3	1.1	1.3	LP+LRE	07	00	41.3	16.9	6.5	
	-EPE	20	20	44.9	1.8	1.4	LP+LRN	07	00	34.7	18.8	5.0	
	+EPZ	20	20	44.9	1.9	2.1	LP+LRZ	07	00	41.3	32.8	10.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUN 15	-EPE	12	43	38.2	1.0	1.2
	+EPN	12	43	39.0	1.2	0.5
	+IPZ	12	43	37.2	1.3	3.4
16	+EPZ	23	46	30.1	1.4	1.6
	LP-LRZ	00	11	09.5	22.9	6.0
17	+EXE	08	52	44.0	1.1	0.4
	+EXN	08	52	43.6	1.1	0.4
18	+EXZ	08	52	45.0	2.1	1.6
	-EPE	22	25	41.3	1.0	0.9
	-IPZ	22	25	41.1	1.3	1.9
	-IPE	02	28	00.0	2.1	3.0
	+IPN	02	28	00.0	2.0	3.5
	-IPZ	02	28	00.0	2.1	11.0
	LP+EXZ	02	33	48.8	20.6	5.0
	+IPE	10	26	22.5	1.3	2.2
	-IPN	10	26	22.0	1.7	1.1
	+IPZ	10	26	21.0	1.0	2.0
	LP+EPE	10	36	48.8	11.3	3.0
	LP-EPN	10	36	46.9	11.3	5.0
	-IPE	15	11	24.7	1.6	1.6
	+EPN	15	11	24.7	1.4	1.5
	+IPZ	15	11	24.0	2.0	7.0
	-EPE	16	07	43.9	1.0	1.0
	+EPN	16	07	43.5	1.1	1.0
+EPZ	16	07	44.0	1.2	1.5	
19	LP+LRE	19	02	15.0	26.3	2.0
	LP+LRZ	19	02	22.5	22.5	4.5
	-EPE	22	49	21.0	1.0	0.3
	-EPZ	22	49	20.0	1.5	1.0
	+EPE	23	50	41.8	0.5	0.3
	+EPN	23	50	42.0	0.7	0.5
	+EPZ	23	50	42.3	0.7	0.6
	-IPE	04	55	42.7	1.1	2.2
	+IPN	04	55	42.7	1.0	2.5
	+IPZ	04	55	42.5	1.0	2.7
	-EXE	15	10	07.9	1.1	1.3
	-IPN	15	10	05.9	1.0	0.7
	-IPZ	15	10	05.7	2.3	3.4
LP-ESE	15	17	46.9	15.0	4.0	
LP-ISN	15	17	45.0	16.9	21.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUN 19	LP+ESZ	15	17	50.6	16.9	5.0
	LP+LRZ	15	25	37.5	30.0	12.5
20	+EXE	04	56	40.5	1.1	0.6
	-EXZ	04	56	35.2	1.3	1.2
	LP-LRZ	05	35	46.9	26.3	4.5
	+IPE	21	05	30.9	2.0	2.5
	+EPN	21	05	31.0	1.1	1.0
	+IPZ	21	05	31.0	2.3	6.0
	LP-ISE	21	15	48.8	13.1	45.5
	LP+ISN	21	15	46.9	15.0	35.5
	LP-ISKSE	21	16	05.6	13.1	65.5
	LP-ESKSN	21	16	05.6	11.3	47.5
	LP+ESKSZ	21	16	06.6	11.3	18.0
	LP-PSE	21	16	46.9	14.1	28.0
	LP-PSN	21	16	45.0	13.1	26.0
	LP-PSZ	21	16	43.1	15.0	20.5
21	LP+SSE	21	21	28.1	11.3	18.5
	LP+SSZ	21	21	31.9	16.9	20.5
	-EPE	21	24	07.2	0.8	0.5
	+EPZ	21	24	06.0	1.0	1.8
	LP+LRE	21	34	50.6	16.9	32.5
	LP+LRN	21	34	45.0	17.8	22.0
	LP-LRZ	21	34	45.9	19.7	66.5
	+EPE	21	46	50.8	1.0	0.5
	-EPZ	21	46	51.0	1.0	1.5
	-IPE	04	55	06.9	1.0	1.0
	+IPZ	04	55	06.0	1.5	2.0
	+IPE	05	11	33.7	1.3	1.7
	-EPN	05	11	34.0	1.0	1.0
22	+EPZ	05	11	35.8	1.5	1.2
	-IPE	07	29	53.9	1.9	3.8
	-IPN	07	29	53.3	1.2	1.2
	+IPZ	07	29	53.0	1.8	9.0
	-EPE	22	16	00.2	1.2	1.8
	+EPN	22	16	00.8	0.9	1.8
	+IPZ	22	16	00.0	1.2	5.5
	+EPE	02	36	28.0	1.2	1.1
	+EPZ	02	36	28.0	1.2	1.9
	+IPE	12	11	23.0	1.2	1.3
	-EPN	12	11	23.8	1.5	0.6

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUN 22	+IPZ	12	11	23.0	1.3	3.4	
	-IPE	14	03	07.5	1.3	2.7	
	+EPN	14	03	07.5	0.9	0.5	
	+IPZ	14	03	06.9	1.1	2.1	
	-EPE	14	28	26.2	1.2	1.0	
	+IPN	14	28	26.0	1.1	0.8	
	+IPZ	14	28	25.5	1.2	2.3	
	+EPE	14	51	01.8	1.0	0.5	
	+EPN	14	51	00.2	0.6	0.5	
	+EPZ	14	51	02.9	0.5	0.5	
	23	+IPE	02	01	40.3	1.1	1.6
		-IPN	02	01	39.0	0.8	0.9
		+IPZ	02	01	40.9	1.1	3.0
		LP+LRZ	11	42	45.0	18.8	7.0
LP-LRE		14	43	30.0	16.9	4.5	
LP+LRN		14	43	37.5	16.9	4.0	
LP+LRZ		14	43	26.3	18.8	7.5	
-IPE		20	49	03.9	1.3	3.3	
-IPN		20	49	03.9	1.0	0.8	
+IPZ		20	49	03.7	1.5	4.5	
LP+EXE		20	58	09.4	18.8	3.0	
LP+EXN		20	58	07.5	15.0	2.5	
LP+EXZ		20	58	05.6	18.8	8.0	
24		+IPE	00	08	44.0	1.7	1.6
	+EPN	00	08	45.0	1.3	1.0	
	+EPZ	00	08	43.0	1.3	1.2	
	+IPE	06	11	51.1	1.1	1.0	
	-IPN	06	11	52.0	1.3	0.9	
	+IPZ	06	11	51.0	1.3	3.0	
	+EPE	23	27	40.0	0.9	0.5	
	+EPN	23	27	42.0	0.6	0.5	
	+EPZ	23	27	42.4	1.0	0.5	
	25	+EPE	02	14	28.2	1.5	2.0
		-EPN	02	14	28.0	1.0	0.6
		+EPZ	02	14	28.0	1.0	1.0
		EPE	03	21	57.0		
		EPN	03	21	57.0		
+EPZ		03	21	57.2	0.6	1.0	
+IPE		19	31	54.5	1.3	1.4	
+EPN		19	31	54.9	0.9	0.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUN 25	+IPZ	19	31	54.1	1.5	5.0	
	-ESE	19	42	30.5	3.7	4.5	
	+ESN	19	42	33.9	2.8	2.2	
	+ESZ	19	42	32.6	2.0	2.6	
	LP-SPE	19	44	07.5	13.1	37.5	
	LP-SPN	19	44	06.6	8.4	12.0	
	LP-SPZ	19	44	07.5	9.4	20.0	
	+EPE	19	45	34.2	1.6	1.5	
	+EPN	19	45	35.5	0.7	0.5	
	+EPZ	19	45	34.1	1.4	6.5	
	LP+SSN	19	48	54.4	20.6	17.5	
	LP+SSZ	19	48	54.4	13.1	22.5	
	LP+SSSE	19	52	31.9	15.0	27.0	
	LP-SSSN	19	52	26.3	13.1	24.0	
	LP-SSSZ	19	52	28.1	15.0	20.5	
	+EPE	20	54	24.0	0.9	0.4	
	+EPN	20	54	25.0	1.0	0.5	
	+EPZ	20	54	26.6	2.0	3.2	
	26	+EPE	07	44	30.4	1.8	2.0
		+EPN	07	44	30.5	0.8	0.3
		+EPZ	07	44	30.0	0.6	0.8
		+IPE	10	44	11.0	1.3	2.0
		-EPN	10	44	10.7	1.1	0.9
+IPZ		10	44	10.7	1.6	5.0	
LP-ESE		10	55	13.1	15.0	8.0	
LP+ESN		10	55	11.3	14.1	12.5	
LP-PPSN		10	57	09.4	13.1	9.0	
LP+SSE		11	01	35.6	15.9	9.5	
LP+SSN		11	01	28.1	32.8	9.0	
-EPE		21	29	08.3	0.7	0.8	
-EPN		21	29	08.3	0.7	1.0	
+EPZ		21	29	08.4	1.0	0.6	
27	-IPE	01	26	13.0	0.9	0.7	
	+EPN	01	26	13.0	1.0	0.6	
	-IPZ	01	26	13.0	1.3	2.5	
	+ESE	01	28	16.6	1.8	0.6	
	+ESZ	01	28	18.0	1.2	0.9	
	+EPE	09	13	09.8	1.3	1.0	
	+EPN	09	13	09.0	1.1	0.8	
	-EPZ	09	13	09.0	1.2	1.8	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUN 27	LP-LRE	10	01	13.1	22.5	3.0	
	LP-LRN	10	01	11.1	22.2	2.5	
	LP+LRZ	10	01	09.4	24.4	6.0	
	+IPE	19	25	27.0	1.2	1.5	
	+IPZ	19	25	26.1	1.3	1.5	
	LP ESE	19	36	09.4			
	LP-PSE	19	37	30.0	11.3	2.0	
	+IPE	20	15	25.0	1.0	0.7	
	+IPN	20	15	25.3	1.0	1.5	
	-IPZ	20	15	24.9	0.8	1.5	
	28	-EPE	11	37	38.2	1.2	0.9
		+EPZ	11	37	37.9	1.1	1.5
	29	+IPE	03	29	49.0	0.9	1.0
		-IPN	03	29	48.9	1.3	1.6
		+IPZ	03	29	49.0	1.1	10.0
		+EPE	04	34	16.8	0.7	0.6
		-EPN	04	34	14.1	0.7	0.6
		+EPZ	04	34	15.8	0.7	0.8
		-IPE	18	41	40.3	2.4	2.5
		-IPN	18	41	40.0	1.0	2.0
+IPZ		18	41	39.7	1.8	8.0	
-ISE		18	51	08.0	2.4	4.0	
-ISN		18	51	07.9	3.0	3.5	
-ESZ		18	51	08.0	3.0	2.7	
LP+LRE		19	01	26.3	17.8	5.0	
LP+LRN		19	01	18.8	15.0	3.0	
LP+LRZ		19	01	22.5	15.0	4.0	
30		+IPE	14	56	38.6	1.5	3.5
		+IPN	14	56	38.9	1.5	1.3
		+IPZ	14	56	38.5	1.7	9.5
		+EPE	19	26	58.0	0.8	0.5
		+EPN	19	26	57.2	1.0	0.6
	+EPZ	19	26	57.8	1.0	1.5	
	JUL 01	+IPE	11	31	42.0	1.5	1.0
		+IPN	11	31	41.2	0.9	1.0
		-IPZ	11	31	41.0	1.1	2.0
		LP+ISE	11	37	51.6	12.2	5.0
LP+ESN		11	37	56.3	15.0	3.5	
LP-ESZ		11	37	56.3	16.9	2.0	
LP+PPSE		11	40	54.4	11.3	6.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUL 01	LP+PPSN	11	40	52.5	10.3	4.0	
	LP PPSZ	11	40	54.4			
	LP+LRZ	11	46	09.4	16.9	12.0	
	-EPE	13	02	07.0	1.1	1.4	
	+EPN	13	02	06.0	1.0	1.0	
	-EPZ	13	02	06.2	1.0	1.5	
	02	+EPE	04	16	03.4	0.7	1.0
		+IPZ	04	16	03.5	1.0	3.0
		+EPE	08	01	27.5	1.7	0.5
		+EPN	08	01	27.0	1.2	0.7
		+EPZ	08	01	27.0	1.2	1.5
		+EPN	11	57	17.2	1.3	1.2
		+EPZ	11	57	17.2	1.0	1.0
		+EPE	17	36	01.5	1.0	0.6
		-EPN	17	36	01.9	0.9	0.5
		+EPZ	17	36	01.2	0.9	0.7
	03	-IPE	20	47	11.0	1.5	2.0
		+IPN	20	47	11.0	1.5	1.6
		+IPZ	20	47	10.0	1.8	3.1
		-EPE	04	55	04.6	1.1	1.0
-EPN		04	55	04.0	1.0	0.8	
-EPZ		04	55	04.8	1.0	1.5	
+IPE		17	01	32.9	1.0	0.9	
+IPN		17	01	33.0	1.0	0.9	
+IPZ		17	01	32.4	1.2	1.9	
04		-IPE	00	22	32.9	0.9	2.0
	-EPN	00	22	32.8	1.1	1.5	
	+IPZ	00	22	32.9	1.1	5.6	
	-IPE	03	15	54.9	0.6	0.8	
	+EPN	03	15	54.0	0.5	0.5	
	+IPZ	03	15	54.0	1.0	6.0	
	-EPE	06	39	41.0	1.0	0.6	
	-EPN	06	39	41.5	0.9	0.5	
	+EPZ	06	39	42.5	1.1	1.0	
	-IPE	19	12	51.9	1.3	4.5	
05	+IPN	19	12	51.7	1.2	5.5	
	-IPZ	19	12	51.9	1.5	17.7	
	-EPE	02	06	11.8	0.6	0.6	
	+EPN	02	06	11.0	1.3	0.5	
	+EPZ	02	06	10.5	1.0	0.7	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUL 05	-EPE	12	10	17.1	1.2	1.4
	+EPN	12	10	18.0	1.3	1.2
	-EPZ	12	10	16.9	1.1	1.5
	+EPE	12	08	26.0	1.1	0.9
	+EPN	12	08	25.5	1.1	0.6
	+EPZ	12	08	25.2	1.0	1.2
	-EPE	20	02	15.0	1.0	0.5
	-EPN	20	02	14.0	0.8	1.0
	+IPZ	20	02	14.0	0.8	0.5
	LP+ESE	20	10	33.8	15.0	3.0
	LP+ESZ	20	10	37.5	15.0	4.0
	LP-LRE	20	25	08.4	13.1	7.5
	LP-LRN	20	25	13.1	22.5	6.0
	LP-LRZ	20	25	09.4	20.6	19.5
06	+EPE	18	48	07.2	1.2	0.5
	+EPZ	18	48	08.2	1.2	0.6
07	+EPE	09	47	51.5	1.2	0.6
	+EPZ	09	47	50.0	1.0	0.6
08	+EPE	00	24	05.3	0.9	0.6
	-EPN	00	24	05.9	1.0	0.9
	-EPZ	00	24	05.5	1.1	2.0
	-EPE	00	41	12.7	0.6	0.6
	+EPN	00	41	12.3	0.5	0.5
	+EPZ	00	41	12.3	0.4	0.4
	+EPE	06	22	56.9	1.0	0.6
	+EPN	06	22	57.3	1.5	1.0
	-EPZ	06	22	56.5	1.2	1.5
	-IPE	07	22	06.0	1.0	1.0
	-IPN	07	22	06.0	1.0	0.7
	-IPZ	07	22	05.7	1.1	1.5
	+IPE	16	22	51.5	1.2	2.1
	+EPN	16	22	49.6	0.7	0.5
09	-EPZ	16	22	51.0	0.7	1.1
	+IPE	05	42	06.5	1.3	2.9
	+IPN	05	42	06.0	1.1	2.4
10	-IPZ	05	42	06.0	1.1	7.5
	-EPE	05	53	08.5	1.0	1.0
	+EPN	05	53	09.0	1.2	2.0
	+EPZ	05	53	08.0	0.4	0.5
	+EPE	11	52	13.9	1.6	0.7

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUL 10	-EPN	11	52	12.9	1.0	4.0
	+EPZ	11	52	14.3	1.2	1.7
11	+EPE	11	58	21.5	1.5	0.5
	-EPZ	11	58	22.2	0.7	0.5
	-EPE	17	09	08.0	1.3	0.6
	+EPZ	17	09	09.9	1.0	0.5
	+EXE	17	13	01.2	2.0	2.8
	-EXN	17	13	01.8	1.2	1.0
	+EXZ	17	13	01.5	1.3	3.2
	LP+EPPN	17	13	20.6	15.0	2.5
	LP+ISN	17	20	46.9	14.1	9.0
	+EPE	17	24	12.0	1.1	0.5
	+EPN	17	24	10.3	1.1	0.4
	+EPZ	17	24	10.5	2.0	1.0
	LP+ISSN	17	28	28.1	13.1	14.0
	LP-SSPN	17	28	46.9	14.1	10.0
LP+SSSN	17	32	24.4	15.0	11.0	
12	+EPE	20	56	09.0	1.2	0.5
	+EPN	20	56	08.4	1.2	0.5
	-EPZ	20	56	08.0	1.0	0.5
	+ESE	20	59	50.0	2.0	2.0
	+ESN	20	59	49.1	1.6	1.0
	-ESZ	20	59	48.0	1.5	1.9
	LP+EPPN	21	00	46.9	12.2	4.0
	LP-SKS1N	21	06	50.6	11.3	11.5
	LP+ISN	21	08	11.3	15.0	19.0
	LP-PPSN	21	10	11.3	15.0	7.5
	+EXE	21	11	48.2	1.3	1.0
	+EXN	21	11	48.2	0.8	0.5
	+EXZ	21	11	48.0	1.2	2.0
	LP+SSPN	21	15	48.8	31.9	19.0
LP+LRN	21	31	46.9	30.0	27.0	
13	+EPE	01	37	33.0	1.2	0.5
	+EPN	01	37	33.0	1.5	1.0
	+EPZ	01	37	32.9	1.0	0.9
13	+EPE	16	28	11.0	1.2	1.0
	+EPN	16	28	13.0	1.0	0.8
	+IPZ	16	28	12.6	1.5	2.0
	+EPE	03	13	45.0	1.1	1.3
	+EPN	03	13	45.4	1.1	1.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUL 13	+EPZ	03	13	44.9	1.5	3.5
14	+EPE	01	33	46.2	1.1	0.5
	+EPN	01	33	47.5	1.5	1.0
	+EPZ	01	33	46.9	1.5	1.8
	-EPE	06	41	46.9	1.0	1.8
	+EPN	06	41	46.0	1.1	1.7
	-EPZ	06	41	47.0	1.0	2.0
	+IPE	07	25	15.8	1.8	45.5
	+IPN	07	25	15.5	1.9	3.8
	+IPZ	07	25	15.5	2.0	104.0
	LP-PPE	07	26	22.5	12.2	8.0
	LP+PPN	07	28	24.4	15.9	4.5
	+ISZ	07	35	07.0	3.8	7.5
	-ISN	07	35	07.0	3.8	4.0
	+ISZ	07	35	09.0	3.8	6.3
	LP+SKS1E	07	35	40.3	14.1	15.0
	LP+SKS1M	07	35	40.3	14.1	6.0
	LP+SPE	07	35	54.4	32.8	11.5
	LP-LRE	07	50	45.9	24.4	20.5
	LP+LRN	07	51	24.4	24.4	30.0
	+IPE	10	35	33.3	1.6	9.5
	-IPN	10	35	39.0	1.3	1.3
	+IPZ	10	35	38.0	1.8	22.0
	-EPE	11	48	36.9	1.1	0.5
	-EPZ	11	48	37.0	1.0	0.5
15	-EPE	01	46	54.9	1.1	1.2
	-EPN	01	46	54.0	1.1	0.6
	-EPZ	01	46	55.0	0.9	1.0
	-EPE	05	27	51.0	0.9	0.5
	-EPN	05	27	51.9	1.1	0.6
16	+EPZ	05	27	52.0	2.0	1.5
	-IPE	02	22	26.0	1.5	1.6
	-IPN	02	22	25.5	1.1	1.2
	+IPZ	02	22	25.4	1.2	3.7
	+IPE	03	17	17.0	1.2	2.1
	+IPZ	03	17	16.9	1.2	4.5
	+EPE	04	41	45.0	1.5	1.5
	+EPZ	04	41	44.0	1.8	2.0
	-IPE	15	10	26.0	1.1	1.5
	+IPN	15	10	26.0	1.2	1.6

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUL 16	+IPZ	16	10	26.0	1.2	4.5
	+EPE	22	08	35.0	1.2	1.4
	+EPN	22	08	36.5	2.0	0.6
	+EPZ	22	08	38.1	1.0	1.0
17	-EPE	04	25	28.8	1.1	1.0
	+EPN	04	25	30.3	0.6	0.4
	+EPZ	04	25	28.5	1.2	2.1
	-EPE	05	45	40.0	2.0	2.0
	-EPN	05	45	41.5	2.2	0.7
	+EPZ	05	45	39.8	2.1	4.5
	+IPE	21	19	46.5	1.6	4.5
	-IPN	21	19	46.2	1.8	2.0
	+IPZ	21	19	46.3	1.7	12.5
	+ESE	21	30	21.2	4.0	6.7
	+ESN	21	30	16.5	2.0	1.9
	+ESZ	21	30	18.8	1.8	1.6
	LP-IPSE	21	32	14.1	16.9	14.0
	LP-IPSZ	21	32	14.1	15.9	21.0
	LP-SPPZ	21	33	15.0	15.0	9.0
	LP-LRE	21	57	24.4	24.4	20.0
	LP+LRN	21	57	21.6	20.6	19.0
	LP+LRZ	21	57	18.8	24.4	39.0
18	+EPE	00	44	02.0	1.0	0.5
	-EPN	00	44	04.0	0.6	0.5
	-EPZ	00	44	03.0	0.9	0.5
	+EPE	04	26	47.6	0.9	0.4
	+EPN	04	26	47.1	1.1	0.6
	+EPZ	04	26	48.3	0.8	0.5
	-IPE	06	55	58.0	0.5	0.5
	-IPN	06	55	58.2	1.0	1.0
	-IPZ	06	55	58.0	1.0	2.1
	-IPE	22	01	04.7	1.3	0.5
	+EPN	22	01	05.5	0.7	0.3
	-IPZ	22	01	04.6	1.3	3.1
19	+EPE	08	13	56.5	0.5	0.4
	+EPN	08	13	57.9	1.0	0.7
20	+EPE	01	23	30.5	1.0	0.5
	-EPN	01	23	31.9	2.0	0.9
	+EPZ	01	23	30.0	1.1	0.5
	+IPE	01	32	55.0	1.5	1.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUL 20	+IPN	01	32	55.5	1.2	0.5	
	+IPZ	01	32	55.1	2.6	4.0	
	LP+ESE	01	35	33.8	11.3	3.5	
	LP-ESSE	01	41	18.8	15.0	2.5	
	LP+LRE	01	58	43.1	21.6	6.0	
	LP+LRN	01	58	39.4	22.5	3.5	
	LP-LRZ	01	58	48.8	23.4	7.5	
	+EPE	08	37	52.5	1.2	1.6	
	-EPZ	08	37	52.5	1.4	2.5	
	+EPE	09	30	34.0	1.8	1.4	
	-EPZ	09	30	34.0	1.2	1.6	
	-IPE	23	02	51.0	1.3	2.5	
	+IPN	23	02	50.9	1.4	1.3	
	-IPZ	23	02	51.0	1.4	4.6	
	+EPE	23	18	44.6	1.0	0.6	
21	+EPN	23	18	43.0	1.0	1.0	
	-EPZ	23	18	43.0	0.8	1.8	
	-EPE	11	58	05.2	1.0	1.5	
	+EPN	11	58	06.0	1.2	0.5	
	+IPZ	11	58	05.0	1.0	2.2	
	LP-LRE	16	07	28.1	18.8	5.0	
	LP+LRN	16	06	56.4	18.8	5.5	
	LP-LRZ	16	06	56.3	18.8	12.5	
	+IPE	20	08	13.2	1.4	1.7	
	+IPN	20	08	12.2	1.2	0.6	
	+IPZ	20	08	13.0	1.1	2.0	
	22	+EPE	03	27	03.8	0.9	0.5
		+EPN	03	27	05.0	1.0	1.5
		-EPZ	03	27	04.0	1.1	1.2
		-EPE	03	36	12.0	0.4	0.5
-EPN		03	36	12.0	0.4	0.5	
+EPZ		03	36	12.0	0.5	1.0	
-EPE		12	06	53.0	1.7	0.6	
-EPN		12	06	52.0	1.1	0.5	
+EPZ		12	06	52.5	2.1	1.2	
-EPE		20	10	48.0	1.0	0.5	
+EPZ		20	10	48.0	1.0	0.5	
+EPE		22	03	24.8	1.6	2.5	
+EPN		22	03	24.7	1.0	0.7	
+EPZ		22	03	24.4	1.0	0.9	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUL 23	-EPE	02	57	03.6	1.2	1.5	
	+EPN	02	57	03.4	1.3	0.8	
	-EPZ	02	57	03.4	1.3	3.3	
	+IPE	06	35	41.0	1.4	6.1	
	-IPN	06	35	41.0	1.2	6.7	
	+IPZ	06	35	41.0	1.3	21.1	
	+EPN	08	24	42.0	1.0	0.5	
	+EPZ	08	24	41.0	1.9	1.7	
	LP+LRZ	08	56	24.9	22.2	3.5	
	-EPN	12	55	05.7	0.9	0.9	
	+EPZ	12	55	07.6	1.0	1.8	
	-EPE	15	58	56.0	1.3	1.0	
	+EPZ	16	58	55.0	1.9	0.9	
	LP+LRE	17	43	12.2	16.9	7.0	
	LP-LRN	17	43	28.1	16.9	4.0	
24	LP-LRZ	17	43	09.4	18.8	15.0	
	-EPE	23	47	53.7	1.3	1.0	
	+EPN	23	47	55.1	1.2	0.6	
	+EPZ	23	47	54.0	1.0	0.5	
	+EPE	06	18	46.5	1.0	0.9	
	+EPN	06	18	46.0	2.3	0.8	
	-IPZ	06	18	46.0	0.7	0.5	
	LP+ESE	06	23	37.5	11.3	3.0	
	LP+ESN	06	23	31.9			
	LP+LRE	06	26	58.1	22.5	3.5	
	LP+LRN	06	26	48.8	18.8	2.5	
	LP+LRZ	06	26	56.3	22.5	9.5	
	25	+EPE	21	30	21.0	1.0	0.3
		-EPN	21	30	22.0	1.1	0.5
		+EPZ	21	30	21.5	0.9	0.5
26		+EPE	01	54	10.5	1.0	0.4
		+IPZ	01	54	08.9	1.2	1.0
		+IPE	03	09	41.0	1.0	0.5
		-EPN	03	09	40.0	1.0	0.5
		-IPZ	03	09	40.1	1.0	1.1
		LP+SKSE	03	20	13.5	9.7	3.5
		LP+SksN	03	20	13.3	8.6	2.0
		LP+ESE	03	20	40.6	7.7	3.5
		LP-ISN	03	20	38.1	9.5	10.0
		LP-LRE	03	45	30.0	20.6	6.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUL 26	LP+LRN	03	45	39.4	20.6	6.0	
	-EPE	05	43	02.5	2.0	1.5	
	+EPZ	05	43	01.3	0.8	1.2	
	LP+LRE	06	21	11.3	17.8	2.5	
	LP+LRN	06	21	09.4	18.8	2.5	
	+EPE	08	49	12.5	1.3	0.9	
	-EPZ	08	49	12.0	2.0	1.5	
	-EPE	09	02	35.5	0.6	0.5	
	-EPZ	09	02	36.0	1.0	1.0	
	+IPE	13	41	48.3	0.4	0.6	
	+EPN	13	41	48.7	1.1	0.6	
	+IPZ	13	41	48.0	0.5	1.1	
	-IPE	19	24	51.0	0.6	1.0	
	-IPN	19	24	51.4	0.6	1.0	
	-IPZ	19	24	51.0	0.7	1.0	
	+EPE	21	15	52.0	1.0	1.4	
	+EPN	21	15	52.6	0.7	1.0	
	+EPZ	21	15	52.0	1.0	1.2	
	27	+IPE	09	22	30.2	1.3	0.7
		+EPN	09	22	30.0	1.3	0.5
-IPZ		09	22	30.0	1.2	1.5	
+IPN		20	01	47.0	1.0	0.5	
+IPZ		20	01	47.7	1.0	0.5	
LP+EPPE		20	03	35.5	5.4	3.0	
LP+EPPE		20	03	37.5	9.4	2.0	
LP+PSN		20	13	26.3	11.3	12.0	
LP-SPE		20	13	30.0	13.1	13.0	
LP-SSE		20	20	25.3	25.1	48.0	
LP+SSN		20	20	22.5	45.0	47.5	
+IPE		20	49	39.1	1.5	1.8	
+IPN		20	49	39.1	1.1	1.0	
+IPZ		20	49	39.0	1.1	4.0	
+IPE		22	13	02.8	1.0	0.6	
-EPN		22	13	03.2	1.0	0.6	
-IPZ		22	13	02.6	1.6	2.5	
28		+IPE	06	34	19.1	1.3	1.2
		+IPZ	06	34	18.6	2.0	2.3
		EPE	11	04	29.3		
	+IPE	11	04	29.0	1.0	1.0	
	-IPZ	11	04	28.0	1.2	1.9	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUL 28	LP+EPPE	11	06	18.5	9.2	5.0	
	LP+EPPE	11	06	15.7	9.2	3.0	
	LP-SPE	11	16	25.8	12.9	16.0	
	LP-SPN	11	16	22.2	18.5	11.0	
	LP-SSPE	11	23	33.8	30.0	15.5	
	LP-SSPN	11	23	26.3	36.6	19.0	
	LP+LRE	11	40	35.6	35.6	20.0	
	LP-LRN	11	40	31.9	33.7	13.5	
	+EPE	16	59	05.3	1.3	0.7	
	+EPN	16	59	04.7	1.3	0.4	
	+EPZ	16	59	04.3	1.0	0.6	
	+EPE	17	27	34.8	0.6	0.6	
	+IPN	17	27	35.7	1.7	3.0	
	-IPZ	17	27	34.0	0.8	1.0	
	-IPE	17	33	33.0	1.5	2.1	
	+IPN	17	33	33.0	1.3	1.2	
	-IPZ	17	33	32.7	1.4	4.1	
	LP+EXN	17	38	03.5	13.1	5.0	
	LP+ESN	17	43	50.6	11.3	5.5	
	+EPE	19	08	56.4	2.0	1.4	
	-EPN	19	08	56.2	1.1	0.9	
	+EPZ	19	08	56.2	1.3	2.0	
	+EPE	20	37	04.5	0.8	1.0	
	-EPN	20	37	04.9	0.7	0.8	
	-EPZ	20	37	04.7	0.7	2.4	
	-EPE	22	00	35.7	0.7	1.2	
	+EPN	22	00	36.0	0.9	0.5	
	+EPZ	22	00	35.7	0.7	1.7	
	29	-EPE	02	27	35.8	1.1	0.5
		-EPN	02	27	35.0	1.2	1.0
+EPZ		02	27	35.0	2.0	1.7	
+EPN		04	25	05.9	1.0	1.0	
-EPZ		04	25	05.9	1.1	2.5	
30		-EPE	08	00	13.5	0.8	0.6
		+EPN	08	00	11.2	1.0	0.5
		-EPZ	08	00	11.3	1.0	0.8
		+EPE	11	20	11.8	1.1	0.6
		+EPN	11	20	12.8	0.7	0.5
	+EPZ	11	20	12.0	0.6	0.4	
	+IPE	21	07	53.0	1.0	1.7	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUL 30	+EPN	21	07	53.5	0.7	0.3
	+IPZ	21	07	53.0	1.1	2.2
31	-IPE	23	22	06.4	1.0	1.3
	-IPN	23	22	06.2	0.8	1.0
	+IPZ	23	22	06.4	1.1	3.4
	+ESE	23	23	32.7	1.0	0.7
	+ESZ	23	23	31.6	1.4	2.0
	+IPE	00	58	52.0	1.4	1.9
	-IPN	00	58	52.0	1.0	1.5
	+IPZ	00	58	51.9	1.4	5.5
	LP+EPE	00	58	54.4	13.1	2.0
	LP+EPN	00	58	54.4	13.1	3.0
	LP+IPZ	00	58	54.4	14.1	11.0
	-ISE	01	08	38.0	2.2	15.0
	-ISN	01	08	36.3	2.1	4.5
	-ISZ	01	08	36.3	2.1	2.3
	-IPE	01	28	23.0	0.6	0.7
	-EPN	01	28	22.6	0.6	0.5
	-IPZ	01	28	23.0	0.9	1.5
	LP+LRE	01	28	37.5	21.6	10.5
	LP-LRN	01	28	35.6	22.5	13.0
	LP-LRZ	01	28	33.8	22.5	28.5
+IPE	01	44	17.2	1.0	1.3	
+IPN	01	44	17.1	0.9	1.3	
+IPZ	01	44	17.1	1.2	4.0	
+EPE	02	11	09.0	0.9	0.7	
+EPN	02	11	09.5	0.9	0.7	
+EPZ	02	11	09.0	1.2	2.0	
+EPN	03	23	58.9	1.2	0.3	
+EPZ	03	23	58.2	1.5	0.8	
+EPE	04	16	38.0	0.9	0.3	
-IPN	04	16	37.3	1.2	1.0	
+IPZ	04	16	37.1	1.2	2.5	
+EPE	05	00	26.2	1.0	1.1	
-EPN	05	00	25.4	2.0	1.0	
-IPZ	05	00	24.0	1.0	1.3	
+EPE	05	08	10.3	1.0	0.6	
+IPZ	05	08	10.3	1.0	0.6	
-EPE	07	38	33.6	0.9	0.6	
-EPN	07	38	33.5	1.1	0.6	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUL 31	-IPZ	07	38	33.3	0.5	1.2
	+ESE	07	39	03.0	1.1	0.5
	ESN	07	39	03.0		
	-ISZ	07	39	03.0	1.4	1.5
	+IPE	12	20	36.5	1.3	0.5
	+IPN	12	20	36.1	1.0	0.5
	-IPZ	12	20	36.0	1.0	1.0
	-EPN	03	06	07.0	1.0	0.7
	-EPZ	03	06	07.9	1.1	1.1
	+EPE	04	59	22.5	0.6	0.6
AUG 01	+EPN	04	59	24.5	0.5	0.5
	+EPZ	04	59	22.5	0.8	1.5
	EPE	11	53	53.0		
	-EPN	11	53	52.0	0.6	0.5
	+EPZ	11	53	52.0	0.5	0.6
	+EPE	15	38	10.3	1.0	0.6
	+EPN	15	38	10.7	1.0	0.9
	+EPZ	15	38	10.5	1.1	2.0
	-IPE	18	19	52.5	1.4	1.3
	+IPN	18	19	52.1	1.1	1.0
	+IPZ	18	19	52.0	1.3	2.5
	-IPE	21	38	26.5	1.0	1.5
	+IPN	21	38	26.5	1.0	1.0
	+IPZ	21	38	26.0	1.1	3.0
	-IPE	00	04	11.2	2.0	4.5
	+IPN	00	04	11.2	1.3	1.5
	+IPZ	00	04	11.0	1.8	5.5
	-EPE	00	07	54.6	1.2	1.0
	-EPN	00	07	55.2	1.0	1.0
	-EPZ	00	07	56.3	1.0	1.0
+IPE	11	07	49.9	2.2	11.0	
-IPN	11	07	50.0	2.0	7.0	
+IPZ	11	07	49.9	2.4	32.0	
+ISE	11	18	06.6	4.0	10.9	
+ISN	11	18	07.0	2.3	4.0	
+ISZ	11	18	08.4	3.5	4.1	
LP+LRE	11	40	07.5	21.6	38.0	
LP+LRN	11	40	16.9	20.6	17.0	
LP-LRZ	11	40	05.6	22.5	67.5	
-EPE	12	46	34.1	1.2	1.4	

02

03

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
AUG 03	-EPN	12	46	35.2	1.4	1.0	
	+EPZ	12	46	35.6	0.7	0.5	
	+IPE	18	00	55.0	1.2	1.6	
	+EPN	18	00	55.4	1.6	0.7	
	-IPZ	18	00	55.0	1.3	2.5	
	+EPE	23	54	36.4	0.9	1.5	
	+EPN	23	54	36.1	0.6	1.0	
	-IPZ	23	54	36.3	1.0	4.5	
	04	-EPE	05	54	19.9	1.0	1.4
		+EPN	05	54	22.1	0.8	0.6
		+IPZ	05	54	19.8	1.0	1.4
		-IPE	14	08	10.7	1.5	4.5
		-IPN	14	08	11.0	2.0	1.2
		+IPZ	14	08	10.4	1.7	9.4
-EPE		16	02	25.1	0.8	0.9	
-EPN		16	02	25.2	0.4	1.0	
-EPZ		16	02	25.0	0.4	1.2	
+EPE		23	59	47.0	1.1	1.1	
-IPZ		23	59	46.4	1.2	1.5	
+EPE		23	45	27.0	1.0	0.4	
+EPN		23	45	26.5	0.9	0.6	
+EPZ		23	45	26.0	1.0	0.6	
05	-EPE	04	49	00.6	0.7	1.0	
	-EPN	04	49	01.2	0.7	1.0	
	+EPZ	04	49	01.5	1.3	1.0	
	+IPE	13	49	41.0	1.5	3.4	
	+IPN	13	49	41.0	1.3	1.6	
	+IPZ	13	49	41.0	1.7	10.0	
	06	-IPE	03	34	33.8	1.5	1.5
		-IPN	03	34	33.0	1.5	1.2
		+IPZ	03	34	33.3	1.6	2.5
		+ESE	03	37	39.0	1.4	1.5
-ESL		03	37	38.9	0.7	0.7	
-ESZ		03	37	39.0	1.0	1.5	
-EPE		12	36	15.8	0.9	0.6	
-IPN		12	36	15.0	1.1	1.0	
+IPZ		12	36	15.0	1.1	1.5	
07		+EPE	06	52	11.0	1.0	0.5
	+EPN	06	52	11.1	1.0	0.6	
	-EPZ	06	52	10.0	1.0	1.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
AUG 07	LP-LRN	07	14	09.4	19.7	4.5	
	LP+LRZ	07	14	15.0	20.6	11.0	
	+EPE	08	34	53.5	1.0	0.8	
	-EPN	08	34	52.6	1.0	0.6	
	+EPZ	08	34	53.0	1.0	0.6	
	08	+EPE	17	00	21.0	1.3	0.7
		+EPZ	17	00	20.5	2.0	2.0
	09	-EPE	00	38	50.0	0.8	0.5
		-EPN	00	38	50.0	0.9	0.9
		+EPZ	00	38	50.0	0.6	0.5
		+EPE	01	27	05.0	0.5	0.5
		+EPN	01	27	06.0	0.6	0.4
		+EPZ	01	27	04.0	0.5	0.6
		+IPE	05	45	20.0	1.3	1.5
+EPN		05	45	20.6	1.1	1.5	
+EPZ		05	45	19.0	2.1	4.1	
+EPE		18	52	45.0	2.0	1.6	
-EPZ		18	52	45.6	1.0	1.0	
10		-EPE	00	31	41.7	0.9	0.5
		-EPN	00	31	42.0	0.7	0.7
		-EPZ	00	31	40.5	0.6	0.6
	LP-LRE	00	54	26.3	20.6	4.0	
11	LP-LRZ	00	54	31.9	18.8	7.0	
	-IPE	19	12	26.1	1.5	2.2	
	+EPN	19	12	25.6	1.5	1.5	
	+EPZ	19	12	28.0	1.5	1.1	
	-EPE	22	39	02.2	1.1	1.5	
	+EPN	22	39	02.0	1.2	0.6	
	+EPZ	22	39	01.4	1.5	2.1	
	+EPE	23	07	40.5	0.8	1.3	
	+EPN	23	07	40.6	0.6	1.2	
	+EPZ	23	07	40.5	0.8	2.3	
	12	+IPE	21	06	16.5	1.5	3.2
		+IPZ	21	06	16.0	1.5	7.9
		+IXE	21	07	38.5	2.0	3.4
		+IXN	21	07	36.5	1.5	1.0
+IXZ		21	07	38.4	2.0	6.3	
+ESE		21	16	08.0	1.2	1.3	
+ISN		21	16	11.6	1.6	2.3	
-ESZ		21	16	08.3	2.5	3.8	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
AUG 12	+EPE	23	45	01.3	1.0	0.9
	+EPN	23	45	03.2	1.2	0.4
	+EPZ	23	45	03.9	2.0	2.3
13	-EPE	13	02	09.2	1.2	1.1
	+EPN	13	02	08.0	1.3	1.4
	-EPZ	13	02	08.2	1.6	2.9
14	-EPE	20	09	30.7	0.6	0.5
	+EPZ	20	09	30.1	0.7	0.6
15	-IPE	13	05	41.0	1.5	3.6
	+EPN	13	05	40.0	1.5	0.6
16	+IPZ	13	05	41.0	1.5	6.0
	-IPE	17	16	01.5	1.0	1.5
	+EPN	17	16	01.5	0.7	0.5
	+IPZ	17	16	01.0	1.1	3.1
	+IPE	18	55	09.5	1.1	2.4
	-IPN	18	55	09.5	1.0	2.3
	+IPZ	18	55	09.3	1.0	8.0
	+EPE	22	48	04.1	0.8	0.6
	+EPZ	22	48	04.1	0.9	1.0
	+EPE	06	49	02.5	1.0	0.8
	+EPN	06	49	03.2	1.2	0.8
	-EPZ	06	49	02.0	1.1	1.0
	+EPE	12	48	09.3	1.1	1.0
	+EPN	12	48	10.6	1.0	0.6
	+IPZ	12	48	08.6	1.7	2.9
	-EPE	14	25	25.3	1.6	1.6
	+EPN	14	25	24.9	1.4	1.0
	-IPZ	14	25	23.9	1.4	2.3
	LP-PSE	14	35	45.0	15.0	5.0
	LP+PSN	14	35	46.9	15.0	6.0
LP-PSZ	14	35	45.0	15.0	8.0	
-EPE	14	35	57.5	1.3	0.6	
-EPN	14	35	57.0	1.1	0.6	
+EPZ	14	35	56.0	2.4	2.4	
LP+PPSZ	14	36	50.6	16.9	10.5	
LP+LRE	15	07	24.4	18.8	7.0	
LP-LRN	15	07	26.3	20.6	10.0	
LP+LRZ	15	07	23.4	20.6	18.5	
-IPE	16	24	22.5	1.2	1.7	
+EPN	16	24	22.4	1.0	0.3	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
AUG 16	+IPZ	16	24	22.0	1.4	3.0
	LP-EPPZ	16	28	26.3	15.0	68.5
	LP-PPPZ	16	30	22.5	15.9	68.0
	LP+ISE	16	35	29.1	13.1	45.5
	LP+ISN	16	35	28.1	17.8	74.0
	LP+ISZ	16	35	28.1	17.8	41.5
	LP+PSE	16	36	45.0	15.9	173.0
	LP+PSN	16	36	44.1	19.7	119.0
	LP-PSZ	16	36	45.0	20.6	125.0
	LP+ESSN	16	42	12.2	14.1	122.0
	LP+ESSZ	16	42	12.2	19.7	150.0
	-ESE	16	50	28.0	4.1	3.6
	+ESN	16	50	27.0	1.8	1.7
	+ESZ	16	50	28.0	2.5	5.7
	+IPE	21	03	53.0	1.0	0.6
	+EPN	21	03	53.3	1.0	0.4
	-IPZ	21	03	52.0	1.2	2.0
	+EPE	23	02	59.0	1.1	0.6
	+EPN	23	02	59.0	0.9	0.5
	+EPZ	23	02	59.0	2.0	2.0
17	-IPE	01	24	44.0	1.5	1.9
	-IPZ	01	24	44.0	1.9	4.5
	+ISE	01	35	15.8	1.4	5.5
	+ESN	01	35	15.4	2.0	2.7
	+ESZ	01	35	13.8	1.2	1.3
	+EPE	04	32	49.0	2.0	1.7
	+EPN	04	32	48.5	1.1	0.4
	+EPZ	04	32	48.9	2.9	4.3
	LP-PPPZ	04	38	31.9	12.2	8.5
	LP+ISE	04	43	45.0	15.0	17.0
	LP-IPSE	04	45	24.4	21.6	45.0
	LP-EPSN	04	45	24.4	18.8	15.5
	LP-IPSZ	04	45	25.3	24.4	24.0
	LP+PPSE	04	45	53.4	17.8	25.0
	LP+PPSN	04	45	54.4	12.2	9.5
	LP+PPSZ	04	45	52.5	21.6	29.0
	LP-ISSE	04	50	47.8	15.0	46.0
	LP-ISSN	04	50	43.1	14.1	29.5
	LP-ISSZ	04	50	47.8	15.9	37.0
	LP-SSSE	04	54	15.9	18.8	25.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
AUG 17	+EPE	05	32	05.9	1.0	0.6	
	+EPZ	05	32	05.0	1.0	1.0	
	+IPE	06	14	54.0	1.2	1.2	
	+IPN	06	14	54.0	0.9	0.4	
	-IPZ	06	14	54.0	1.2	2.8	
	+IPE	18	20	24.2	1.9	2.0	
	+IPZ	18	20	24.1	1.9	1.9	
	-IPE	22	42	45.8	1.4	1.7	
	-IPN	22	42	45.0	1.3	1.5	
	+IPZ	22	42	45.0	1.5	3.0	
	18	+EPE	02	05	21.7	1.3	1.1
		+EPN	02	05	20.5	1.2	0.6
		-EPZ	02	05	22.1	1.3	2.3
		+EPE	13	49	10.9	1.0	0.9
		+EPN	13	49	11.2	1.1	1.1
		+IPZ	13	49	10.6	1.3	1.3
		LP-EXE	20	51	26.3	11.3	1.5
LP-EXE		20	52	09.4	13.1	2.0	
+EPE		21	09	51.5	1.0	0.6	
+EPN		21	09	51.7	0.9	0.6	
19	+EPZ	21	09	50.5	0.8	0.9	
	-EPE	01	08	17.1	1.2	0.6	
	+IPN	01	08	17.0	1.0	1.1	
	-IPZ	01	08	17.0	1.0	1.5	
	+IPE	01	26	50.5	1.1	1.3	
	-IPN	01	26	50.5	1.1	1.5	
	+IPZ	01	26	50.4	1.2	4.3	
	-IPE	01	45	46.0	1.0	0.9	
	+IPN	01	45	48.0	0.9	1.0	
	+IPZ	01	45	47.5	1.1	1.1	
	+EPE	04	26	53.1	1.2	0.7	
	+IPN	04	26	52.0	0.9	0.7	
	+EPZ	04	26	51.5	1.0	1.9	
	-EPE	05	06	42.6	1.0	0.5	
	+EPN	05	06	42.0	1.0	0.6	
	+EPZ	05	06	42.0	1.1	1.5	
	+EPE	09	25	55.0	0.8	0.4	
+EPN	09	25	55.0	1.0	0.5		
-EPZ	09	25	56.8	1.0	1.0		
-IPE	21	59	04.5	1.5	2.7		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
AUG 19	+EPN	21	59	04.8	1.2	1.4	
	-EPZ	21	59	05.4	2.5	1.6	
	20	-IPE	07	06	02.0	1.2	1.9
		-IPN	07	06	02.0	1.2	1.0
		+IPZ	07	06	01.8	1.5	5.7
		+ISE	07	15	48.9	2.3	2.3
		-ISN	07	15	49.0	3.5	2.5
		-ISZ	07	15	48.9	1.3	1.2
		-EPE	07	17	46.0	0.7	0.5
		+EPN	07	17	46.7	1.2	0.7
-IPE		07	56	20.1	0.8	1.1	
+IPN		07	56	20.1	0.9	1.0	
+IPZ	07	56	19.7	1.1	2.0		
+EPN	09	45	03.5	0.9	0.6		
+EPZ	09	45	03.0	1.0	1.0		
+EPN	13	20	18.0	1.1	0.6		
+EPZ	13	20	18.3	0.9	0.4		
-EPE	17	37	57.0	1.0	0.7		
-EPN	17	37	57.9	1.1	0.8		
-EPZ	17	37	57.7	0.7	0.7		
+EPN	19	13	43.0	0.6	0.5		
-EPZ	19	13	43.0	1.3	1.1		
21	+EPE	03	54	20.0	0.7	0.6	
	+EPN	03	54	20.1	1.0	1.0	
	+EPZ	03	54	22.3	1.2	1.5	
	-EPE	06	01	31.0	1.3	0.8	
	+EPN	06	01	31.0	0.9	0.4	
	-IPZ	06	01	31.5	1.1	1.0	
	-IPE	07	09	04.0	1.1	4.2	
	+IPN	07	09	05.0	1.0	3.0	
	-IPZ	07	09	04.0	1.0	6.0	
	-ESE	07	19	06.3	0.9	2.1	
+ESN	07	19	04.9	1.0	1.5		
+ISZ	07	19	06.6	1.0	1.7		
LP-EPSE	07	20	30.0	15.0	6.5		
LP-EPSN	07	20	30.0	9.4	5.0		
+EPE	10	38	47.7	1.0	0.5		
+EPN	10	38	47.6	0.8	0.5		
-EPE	13	37	00.5	1.1	1.1		
+EPN	13	37	01.2	0.6	0.5		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
AUG 21	+EPZ	13	37	02.3	0.8	0.6	
	+IPE	22	08	27.0	1.0	0.3	
	-IPN	22	08	26.7	1.1	0.6	
	-IPZ	22	08	26.0	1.2	1.5	
	LP+ESE	22	18	50.6	14.1	2.5	
	LP+ESN	22	18	50.6	15.0	3.0	
	LP+LRE	22	52	20.6	18.8	4.5	
	LP+LRN	22	52	09.4	19.7	5.0	
	22	+EPE	02	21	37.7	1.2	1.5
		+EPN	02	21	36.9	0.9	0.7
+IPZ		02	21	36.3	2.1	4.1	
+ISE		02	33	10.5	2.0	4.0	
-ISN		02	33	11.0	1.5	6.3	
-ISZ		02	33	11.0	1.5	2.7	
+EPE		04	03	54.7	1.0	0.5	
+EPN		04	03	55.0	0.9	0.6	
+EPZ		04	03	54.0	1.4	1.2	
+EPE		14	19	33.1	1.0	0.8	
23	+EPN	14	19	33.0	1.0	1.1	
	+IPE	21	22	42.0	1.5	3.7	
	-IPN	21	22	42.0	1.5	2.9	
	-IPZ	21	22	41.0	2.4	8.8	
	LP-ESE	21	33	39.4	12.2	3.5	
	LP-ESN	21	33	39.4	15.0	3.0	
	+EXE	03	48	38.0	0.8	0.7	
	+EXZ	03	48	37.8	1.7	1.6	
	-EPE	03	55	58.2	2.0	3.0	
	+EPN	03	55	56.8	1.5	0.7	
24	+IPZ	03	55	57.4	2.2	6.6	
	LP-ESE	04	07	05.6	12.2	5.0	
	LP-ESN	04	07	04.7	13.1	6.0	
	-EPE	12	58	04.3	0.7	1.0	
	-EPN	12	58	04.3	1.0	1.1	
	+EPZ	12	58	05.0	0.6	1.2	
	+EPE	18	05	54.4	1.0	1.2	
	+EPN	18	05	52.0	0.9	0.7	
	+EPZ	18	05	54.0	1.0	0.5	
	-EPE	01	48	55.0	0.9	0.6	
	+EPN	01	48	54.9	1.0	0.6	
	+EPZ	01	48	54.9	1.1	0.7	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
AUG 24	-EPE	09	07	52.0	0.6	0.7	
	+EPN	09	07	49.7	1.0	0.6	
	+EPZ	09	07	48.1	1.0	0.5	
	+EPE	18	38	23.0	1.1	0.9	
	+EPZ	18	38	24.8	1.1	1.0	
	-IPE	21	37	46.1	1.2	9.5	
	-IPN	21	37	46.0	1.2	5.0	
	+IPZ	21	37	46.0	1.2	26.5	
	25	LP+LRZ	13	18	46.9	24.4	3.0
		+EPE	14	39	28.9	1.2	1.2
+EPN		14	39	27.9	1.1	1.0	
+EPZ		14	39	29.2	1.2	2.0	
26		+EPE	12	20	53.0	1.2	2.1
		+EPN	12	20	51.2	0.9	0.7
		+IPZ	12	20	53.9	1.0	3.5
		+IPE	14	49	39.5	1.0	1.5
		+IPN	14	49	39.1	1.3	2.5
		+IPZ	14	49	39.0	1.1	6.0
	+EPE	18	31	53.0	1.0	2.3	
	+EPN	18	31	52.3	1.2	3.0	
	+EPZ	18	31	52.3	1.3	3.2	
	28	-IPE	03	15	56.0	1.1	1.0
-EPN		03	15	56.0	0.5	0.6	
+IPZ		03	15	54.0	0.9	2.6	
+EPE		07	17	58.8	1.7	2.1	
-EPN		07	17	58.0	1.0	0.5	
+EPZ		07	17	59.8	1.5	1.0	
-IPE		16	26	39.0	1.1	0.9	
+EPN		16	26	38.8	1.1	0.9	
+IPZ		16	26	38.0	1.6	2.2	
+EPE		17	04	25.5	1.1	0.6	
29	+IPZ	17	04	25.2	1.2	1.4	
	+EPE	02	19	41.2	1.0	0.3	
	+EPZ	02	19	41.4	0.9	0.6	
	+EPE	04	10	34.0	1.0	0.5	
	+EPN	04	10	43.5	0.9	0.7	
	+EPZ	04	10	45.8	1.2	1.6	
	-EPE	05	09	37.2	1.0	0.4	
	-IPN	05	09	37.4	1.7	1.3	
	+IPZ	05	09	37.5	1.9	3.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
AUG 29	LP-LRN	05	41	18.8	20.6	3.0	
	LP-LRZ	05	41	17.8	21.6	9.0	
	+EPE	09	24	40.7	2.0	0.9	
	+EPN	09	24	42.4	1.0	0.6	
	+EPZ	09	24	42.9	1.2	1.5	
	-IPE	18	40	48.0	1.5	1.5	
	+IPN	18	40	48.0	1.2	0.9	
	+IPZ	18	40	47.6	1.0	1.1	
	30	+EPE	02	13	27.2	1.3	1.1
		+EPN	02	13	27.9	1.9	0.5
		+IPZ	02	13	27.4	1.1	2.0
		-EPE	05	40	15.3	1.1	1.5
+EPN		05	40	15.3	0.8	1.4	
+IPZ		05	40	14.9	0.5	0.7	
+EPE		05	44	57.0	0.7	0.5	
-EPN		05	44	57.0	0.7	0.6	
+EPZ		05	44	57.1	1.0	2.0	
+EPE		08	04	13.8	1.9	2.5	
-EPN		08	04	13.4	1.0	0.6	
+EPZ		08	04	15.0	1.1	1.3	
31	+EPE	08	51	24.7	1.4	1.5	
	+EPN	08	51	24.0	1.1	0.4	
	-IPZ	08	51	24.1	1.3	1.2	
	LP-ESE	09	02	38.4	13.1	2.0	
	LP-ESZ	09	02	37.5	20.6	3.5	
	LP-LRE	09	30	01.9	18.8	5.0	
	LP+LRZ	09	30	09.0	18.8	10.5	
	+EPE	17	17	04.0	1.0	0.7	
	-EPZ	17	17	03.5	1.1	1.0	
	+EPE	02	13	53.8	1.5	1.1	
	-EPN	02	13	52.8	1.2	0.6	
	-EPZ	02	13	53.8	0.8	0.7	
31	-ESE	02	18	55.1	3.1	3.0	
	+ESN	02	18	56.3	2.3	2.2	
	+IPE	09	18	40.1	1.5	3.2	
	-IPN	09	18	40.2	1.4	3.0	
	+IPZ	09	18	40.0	1.6	10.0	
	+EPE	11	16	47.0	1.0	0.5	
	+EPN	11	16	46.1	1.2	0.7	
	+EPZ	11	16	46.9	1.0	0.8	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
AUG 31	-IPE	11	21	24.1	1.2	1.9
	-IPN	11	21	24.7	1.0	1.2
	+IPZ	11	21	24.4	1.3	5.3
	LP+ESE	11	44	16.9	11.3	5.5
	LP+ISN	11	44	16.9	13.1	7.0
	+IPE	13	34	13.0	1.3	1.1
	+EPN	13	34	13.7	1.0	1.0
	+IPZ	13	34	13.0	1.5	3.5
	+EPE	14	13	20.2	1.0	1.1
	+EPN	14	13	20.5	0.8	0.4
	+EPZ	14	13	20.0	1.1	1.6
	SEP 01	-IPE	11	35	37.3	1.0
+EPN		11	35	37.6	0.8	0.4
+EPZ		11	35	37.3	0.9	0.6
+IPE		13	37	52.3	1.4	6.2
-IPN		13	37	52.2	1.3	4.5
+IPZ		13	37	52.2	1.4	17.5
-EPE		22	03	29.8	1.0	1.0
-EPN		22	03	31.8	1.5	1.0
-EPZ		22	03	31.8	1.0	1.0
+EPN		15	40	42.0	1.1	0.7
-EPZ		15	40	43.2	0.6	0.6
-EPE		15	49	40.7	0.9	2.2
02	+EPN	15	49	39.9	1.1	1.7
	+EPZ	15	49	40.1	1.3	3.2
	+EPE	04	22	48.9	1.0	0.7
	+EPN	04	22	48.0	1.2	0.7
	+EPZ	04	22	47.5	1.3	1.4
	-EPE	05	18	04.9	1.0	1.0
	-EPN	05	18	04.9	1.1	1.0
	-IPZ	05	18	04.3	2.0	3.5
	-EPE	11	52	56.7	1.9	1.9
	+EPN	11	52	56.0	1.6	1.1
	+EPZ	11	52	56.0	1.8	3.0
	04	+EPE	00	50	14.2	1.2
-EPN		00	50	14.1	0.6	0.6
+EPZ		00	50	12.1	1.0	0.6
+EPE		04	13	24.8	1.0	1.1
+EPN		04	13	25.5	1.0	0.5
+IPZ		04	13	25.0	1.1	1.9

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
SEP 05	+EPE	12	02	24.3	1.1	0.6
	+EPN	12	02	25.8	1.0	0.6
	+EPZ	12	02	25.3	1.2	2.1
	+IPE	17	43	59.8	1.7	3.0
	+EPN	17	43	58.0	0.8	0.5
	+EPZ	17	43	58.8	0.9	0.5
	-EPE	15	03	41.3	1.1	1.8
	-IPZ	15	03	40.8	1.2	2.4
	+EPE	18	32	56.3	1.2	1.0
	-EPN	18	32	55.5	1.1	1.0
	-EPZ	18	32	56.0	1.5	1.3
	+EPE	20	45	19.7	1.0	3.0
	+EPN	20	45	20.9	1.7	0.8
	+IPZ	20	45	19.9	2.0	7.0
	LP-LRE	21	13	28.1	24.4	2.0
	LP+LRN	21	13	37.5	22.5	3.0
	LP+LRZ	21	13	26.3	22.5	5.5
	+EPE	21	59	04.8	1.0	1.1
	+EPN	21	59	04.0	1.0	0.3
	06	+EPZ	21	59	04.0	1.1
+EPE		05	12	49.0	1.6	2.1
07	+EPN	05	12	48.9	1.1	0.5
	+EPZ	05	12	48.3	0.9	0.4
	+EPN	02	05	22.4	1.1	0.8
	+EPZ	02	05	22.6	1.2	2.1
	+EPE	04	50	53.7	1.0	1.1
	+EPN	04	50	55.8	0.8	0.5
	+EPZ	04	50	55.7	1.2	1.0
	+EPE	04	52	44.3	1.4	2.2
	+IPN	04	52	44.1	1.0	0.7
	+IPZ	04	52	44.1	1.6	6.2
	+EPE	06	10	23.0	1.9	1.6
	-EPN	06	10	23.1	1.5	1.1
	+IPZ	06	10	23.0	2.0	4.0
	+EPE	06	12	18.8	1.1	1.4
	+IPZ	06	12	18.2	1.0	1.0
	+EPE	10	22	03.2	1.8	2.5
	+EPN	10	22	03.8	1.2	1.8
	+IPZ	10	22	03.5	1.7	5.5
	-EPE	18	49	59.0	1.9	3.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
SEP 07	+EPN	18	49	59.9	2.0	2.2
	+EPZ	18	49	59.3	2.0	2.3
08	+EPE	02	25	35.4	1.9	3.7
	-EPZ	02	25	34.0	1.0	0.9
	-IPE	15	53	53.9	1.2	4.5
	-EPN	15	53	53.8	1.1	2.7
	+IPZ	15	53	53.8	1.1	9.5
	-EPE	19	26	34.9	1.1	1.4
	+EPN	19	26	34.0	0.9	1.0
	+EPZ	19	26	35.0	1.7	1.7
	+IPE	20	10	11.6	1.3	2.0
	-IPN	20	10	11.5	1.2	1.5
09	+IPZ	20	10	11.8	1.4	7.0
	+EPN	03	56	33.0	1.1	0.5
	+EPZ	03	56	32.0	1.2	1.0
	-EPE	09	40	19.3	1.0	0.7
	+EPZ	09	40	19.0	1.4	2.2
	+EPN	09	47	28.9	1.5	0.6
	+EPZ	09	47	29.0	2.5	2.6
	LP-LRE	13	28	30.0	18.8	3.0
	LP-LRN	13	28	56.3	18.8	2.0
	LP+LRZ	13	28	31.9	26.3	3.0
11	-EPE	14	24	13.3	1.7	1.5
	+EPN	14	24	13.8	1.2	1.5
	+EPZ	14	24	13.0	2.0	3.9
	LP+LRE	05	58	22.5	16.9	2.0
	LP-LRZ	05	58	22.5	19.7	2.5
	LP+LRE	08	15	37.5	18.8	1.5
	LP+LRZ	08	15	45.0	19.7	2.0
	+EPE	17	14	09.9	1.1	1.0
	-EPN	17	14	08.0	1.0	0.9
	+EPZ	17	14	10.2	1.0	2.0
11	-EPN	21	17	04.5	2.0	1.5
	+IPZ	21	17	04.5	2.0	4.0
	-EPE	21	46	16.3	1.3	0.8
	+EPN	21	46	16.2	1.2	0.7
	+EPZ	21	46	16.3	1.3	0.7
	+EPE	23	44	04.2	0.9	0.5
	-EPN	23	44	04.2	0.4	0.5
	-EPZ	23	44	04.8	0.8	1.7

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
SEP 12	+EPE	04	09	04.0	1.2	1.5	
	+EPN	04	09	04.6	0.9	0.7	
	-EPZ	04	09	03.4	1.3	4.0	
	-EPE	06	34	13.1	1.0	1.0	
	-EPZ	06	34	13.0	1.0	1.8	
	+IPE	14	29	51.1	0.6	1.0	
	-EPN	14	29	51.7	0.8	0.9	
	-IPZ	14	29	51.2	1.1	2.5	
	13	+EPE	03	54	10.8	1.1	0.3
		+EPN	03	54	10.9	1.0	0.4
+EPZ		03	54	10.2	1.1	0.7	
+EPN		03	07	49.8	1.1	0.4	
+EPZ		03	07	51.0	2.3	2.5	
-EPE		03	21	02.8	1.9	2.5	
-EPN		03	21	04.4	1.0	1.0	
+EPZ		03	21	03.2	1.2	1.0	
+EPE		09	02	15.2	1.1	1.2	
-EPN		09	02	17.1	1.0	1.0	
14	+IPZ	09	02	15.2	1.1	4.0	
	+IPE	21	57	25.1	1.3	1.9	
	-IPN	21	57	25.1	0.9	1.5	
	+IPZ	21	57	25.1	1.3	5.2	
	+EPE	13	58	32.0	1.1	0.5	
	-EPN	13	58	30.9	1.2	1.0	
	-IPZ	13	58	30.0	1.2	2.1	
	+EPE	23	02	23.2	1.0	1.6	
	-EPN	23	02	24.0			
	+IPZ	23	02	23.1	1.0	3.2	
15	LP+ISE	23	12	43.1	13.1	6.0	
	LP-ESZ	23	12	45.0	9.4	4.0	
	LP+ESZ	23	12	46.9	7.5	2.0	
	LP-SKSE	23	13	57.2	13.1	10.5	
	LP+ISKSZ	23	13	56.3	7.5	7.0	
	LP+ESKSZ	23	13	53.1	7.5	4.0	
	LP+IPSE	23	15	01.9	11.3	10.0	
	-EPE	03	20	47.0	1.2	2.0	
	+EPN	03	20	46.0	1.0	0.6	
	-IPZ	03	20	47.0	1.2	2.2	
15	LP+LRE	04	22	09.4	21.0	3.5	
	LP-LRZ	04	22	15.0	20.0	4.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
SEP 15	-EPE	05	50	48.0	1.4	1.0	
	+EPN	05	50	48.0	1.2	0.7	
	+EPZ	05	50	48.6	0.8	2.5	
	+EPE	12	54	42.0	1.1	5.5	
	-IPN	12	54	42.0	1.0	7.5	
	+IPZ	12	54	42.0	1.0	23.9	
	16	+EPE	03	46	40.3	1.0	0.6
		+EPZ	03	46	41.0	3.3	3.0
		+EPE	09	18	25.5	1.2	1.1
		+EPN	09	18	29.0	1.1	0.5
+EPZ		09	18	28.0	1.7	2.1	
+IPE		11	39	27.0	2.0	2.5	
-IPN		11	39	28.0	1.7	1.0	
+IPZ		11	39	27.7	2.1	7.0	
+ESE		11	49	54.0	3.2	2.6	
-ESN		11	49	54.0	2.6	2.4	
18	-ESZ	11	49	54.5	3.0	1.7	
	LP-SKSE	11	49	55.1	11.3	5.0	
	LP+IPSE	11	51	15.9	14.1	7.0	
	LP+IPSN	11	51	15.0	9.4	6.0	
	LP+EPSZ	11	51	15.9	10.3	4.0	
	LP-LRE	12	15	33.8	19.7	13.0	
	LP+LRN	12	15	35.6	15.9	6.5	
	LP-LRZ	12	15	37.0	20.6	14.5	
	-EPE	16	34	43.0	1.0	1.3	
	-EPN	16	34	44.7	1.0	1.5	
18	-EPZ	16	34	44.2	1.2	2.1	
	+IPE	23	24	29.5	1.1	1.5	
	-IPN	23	24	29.2	1.1	1.7	
	+IPZ	23	24	29.4	1.1	4.8	
	+EPE	01	27	05.0	0.6	0.5	
	-IPN	01	27	04.1	1.0	1.0	
	+IPZ	01	27	04.0	1.2	1.5	
	-EPE	01	34	23.4	1.8	1.3	
	+EPZ	01	34	23.3	1.7	2.5	
	+EPE	10	52	38.5	1.1	0.5	
18	+EPZ	10	52	37.5	1.2	1.0	
	-EPE	13	24	52.2	1.0	1.0	
	-EPN	13	24	52.2	0.8	0.5	
18	+IPZ	13	24	51.6	1.2	3.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
SEP 18	+ESE	13	25	11.2	1.1	0.7
	+ESZ	13	25	11.0	1.1	1.5
19	-EPE	15	09	38.0	1.8	2.2
	-IPN	15	09	37.0	1.7	5.4
20	-IPZ	15	09	37.0	2.2	14.0
	LP-LRN	15	29	52.5	20.6	6.0
	LP+LRZ	15	29	48.8	22.5	12.0
	-EPE	11	55	48.2	0.8	0.5
	+EPN	11	55	48.2	1.0	0.7
	+EPZ	11	55	48.9	0.6	0.5
	+EPE	17	42	03.5	1.9	2.0
	+EPN	17	42	05.1	1.0	1.0
	+EPZ	17	42	06.5	0.8	0.5
	+EXN	19	21	18.5	1.0	0.5
21	+EXZ	19	21	17.8	1.3	1.5
	+EPE	21	20	01.3	0.6	1.0
	-EPN	21	20	01.5	1.0	1.0
	-EPZ	21	20	01.4	1.0	1.0
	+EPE	22	09	48.3	0.7	0.7
	+EPN	22	09	48.0	1.1	0.7
	+EPZ	22	09	48.3	1.3	1.5
	-EPE	02	30	00.3	0.6	1.3
	+IPN	02	30	00.2	0.8	1.8
	-IPZ	02	30	00.5	1.0	6.5
22	-EXE	09	38	15.0	1.6	1.5
	-EXN	09	38	14.0	0.8	1.0
	+EXZ	09	38	15.0	0.9	1.0
	+EPE	20	48	55.3	0.6	0.5
	-EPZ	20	48	55.4	1.2	1.5
	+EPE	21	04	55.7	1.0	1.2
	+EPN	21	04	57.0	1.0	0.5
	+IPZ	21	04	55.4	1.0	2.0
	-EPN	00	35	14.3	1.3	0.9
	+IPZ	00	35	14.0	0.8	0.6
22	+EPE	08	30	44.3	1.1	0.5
	+EPN	08	30	43.7	1.0	0.5
	+EPZ	08	30	43.0	1.0	0.6
	-EPE	11	16	46.0	1.3	1.5
	+IPN	11	16	44.0	0.6	0.6
	+IPZ	11	16	43.5	1.0	1.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
SEP 22	+IPE	16	20	59.1	1.2	6.5
	-IPN	16	20	59.8	0.6	1.5
	-IPZ	16	20	59.5	1.5	9.5
	LP-ESE	16	26	35.6	12.2	5.0
	LP+ESN	16	26	35.6	13.1	2.5
	LP+ESSIN	16	28	50.6	13.1	4.0
	LP+SCSE	16	31	16.9	20.6	5.0
	LP+SCSZ	16	31	14.1	18.8	7.0
	+EPN	20	18	21.5	1.1	0.6
	-EPZ	20	18	23.5	1.5	1.6
23	-IPE	00	46	57.5	0.6	1.0
	-EPN	00	46	58.9	0.6	0.7
	-IPZ	00	46	57.0	1.0	2.0
	+EPE	15	05	55.7	1.0	1.7
	+EPN	15	05	56.8	1.0	0.5
	+IPZ	15	05	55.5	1.0	3.2
	+EPE	19	51	54.0	0.9	0.5
	-IPN	19	51	54.0	1.0	0.9
	+IPZ	19	51	54.0	1.0	1.1
	+EPE	19	14	41.5	1.1	1.0
24	+EPN	19	14	40.0	0.8	0.5
	-EPZ	19	14	39.5	1.0	0.9
	+EPE	03	43	18.9	1.8	1.2
	+EPN	03	43	17.7	1.1	0.7
	+IPZ	03	43	18.9	2.1	2.7
	+ISE	14	40	36.1	0.8	4.5
	+ISN	14	40	35.5	0.8	2.3
	+ISZ	14	40	37.9	1.1	6.0
	+IPN	21	59	45.6	1.2	1.3
	+IPZ	21	59	45.2	1.1	0.8
25	LP+ESE	22	10	12.2	11.3	4.0
	LP+LRN	22	32	28.1	18.8	4.0
	+IPE	14	37	34.8	1.3	3.0
	-IPN	14	37	34.8	1.4	4.2
	+IPZ	14	37	33.8	1.5	3.5
	+EPE	08	33	44.3	1.1	1.7
	+IPN	08	33	44.7	1.9	2.1
	+IPZ	08	33	44.1	1.1	4.5
	+EPE	12	55	19.2	1.6	1.9
	-EPN	12	55	19.2	1.5	1.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
SEP 27	-IPZ	12	55	18.8	1.4	1.6
	+EPE	14	04	26.7	1.0	1.3
28	-EPN	14	04	26.5	1.1	0.9
	-IPZ	14	04	26.5	1.3	3.5
	+EPE	18	12	17.4	1.0	0.6
	-EPN	18	12	17.6	0.7	0.5
	+EPZ	18	12	17.3	1.4	1.5
	LP+EPN	18	14	11.3		
	LP+ESE	18	18	46.9	15.0	2.0
	LP+ESN	18	18	46.9	13.1	2.0
	LP-LRE	18	29	31.9	17.8	10.5
	LP+LRN	18	29	32.8	15.9	7.0
29	+EPE	03	19	28.9	1.7	1.2
	-IPZ	03	19	28.0	1.2	1.4
	+IPZ	03	19	27.8	1.1	3.3
	+EPE	15	01	51.1	1.0	1.6
	+EPN	15	01	48.9	1.0	0.9
	+EPZ	15	01	50.9	1.0	1.0
	+EPE	15	51	32.4	1.0	0.8
	+IPN	15	51	32.9	1.0	0.7
	+IPZ	15	51	32.6	1.2	2.5
	+EPE	21	15	48.5	1.4	0.7
	-IPZ	21	15	49.0	3.2	4.5
	+IPE	08	15	47.7	1.5	5.0
	+IPN	08	15	47.4	1.4	2.4
	-IPZ	08	15	47.7	1.0	15.2
30	+IPE	23	46	06.0	1.1	1.2
	+IPN	23	46	06.6	1.4	2.0
	+IPZ	23	46	06.0	1.1	2.5
	-ISE	23	55	54.1	3.0	15.7
	+ESN	23	55	50.6	2.0	1.5
	+ISZ	23	55	54.1	2.4	3.7
OCT 01	LP-LRN	00	15	50.6	20.6	26.0
	LP+LRZ	00	15	54.4	22.5	55.5
	+EPE	03	45	50.5	1.0	0.6
	-EPN	03	45	50.1	1.2	1.0
	+IPZ	03	45	48.9	0.9	1.0
	+ESE	03	55	37.0	2.2	3.5
	+ESN	03	55	34.0	1.6	1.2
	+IPE	05	44	10.0	0.7	0.8

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 01	+IPN	06	44	09.6	1.0	1.0
	+IPZ	06	44	10.0	0.7	0.6
	+EPE	07	25	57.0	1.9	2.0
	+EPN	07	25	58.0	0.5	1.5
	+IPZ	07	25	57.0	0.6	1.2
	+EPE	09	47	45.0	0.8	1.6
	-EPN	09	47	43.0	0.8	0.8
	+EPZ	09	47	45.0	1.1	1.9
	-IPE	11	59	52.0	1.0	1.5
	EPN	11	59	52.1		
	+IPZ	11	59	51.5	1.0	3.1
	LP+LRZ	12	36	45.0	20.6	4.0
	-EXE	22	29	43.0	1.1	0.9
	+EXZ	22	29	42.7	1.2	1.5
02	+EPE	13	58	54.0	1.7	1.3
	+IPN	13	58	54.0	1.1	1.3
	-IPZ	13	58	54.0	1.5	2.2
	LP+ESE	14	08	18.0	13.1	3.0
	LP+ESN	14	08	18.0	1.9	3.5
	-EPE	18	49	56.0	0.8	0.5
	+EPN	18	49	56.3	0.9	0.6
	+EPZ	18	49	55.5	1.0	1.0
	-IPE	22	05	46.5	1.0	1.7
	+EPN	22	05	46.5	1.1	1.7
	+IPZ	22	05	45.5	1.8	4.5
	LP+LRE	22	37	50.0	18.0	3.0
	LP+LRN	22	37	43.1	17.8	2.0
	LP+LRZ	22	37	41.3	18.8	5.0
03	+IPN	16	42	04.5	1.2	1.1
	+EPZ	16	42	05.0	1.4	1.8
	-EPN	08	06	42.0	1.0	0.5
	+IPZ	08	06	43.9	1.7	3.5
	+EPE	11	00	52.0	1.1	0.0
	+EPN	11	00	52.0	1.1	0.0
	-IXZ	11	03	55.2	1.3	1.7
	-EPE	15	06	21.0	1.0	1.0
	+EPN	15	06	22.0	1.0	0.0
	+EPZ	15	04	21.5	0.8	1.0
04	+IPE	07	02	00.1	1.2	0.0
	-IPN	07	02	00.1	0.9	1.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 04	+IPZ	07	02	00.1	1.0	1.8
	LP-LRE	07	33	15.0	16.9	2.0
05	LP+LRZ	07	33	09.4	21.6	4.0
	-EPN	20	46	17.3	1.7	1.0
	-IPZ	20	46	17.0	1.2	1.0
	+EPE	06	35	24.9	1.2	1.0
	+IPN	06	35	23.3	1.3	1.2
	+IPZ	06	35	23.5	1.2	2.3
	+IPE	13	55	58.9	0.6	0.6
	+IPN	13	55	59.1	1.1	1.3
	+IPZ	13	55	58.9	1.1	3.1
	+IPE	16	09	22.5	1.4	1.2
	+IPN	16	09	22.8	1.3	1.5
	+IPZ	16	09	22.3	1.2	2.9
	LP+LRE	16	40	46.9	20.6	1.5
	LP+LRZ	16	40	29.1	22.5	3.0
	-IPE	18	15	24.5	1.6	4.0
	+IPN	18	15	24.4	1.8	1.8
	-IPZ	18	15	24.4	1.9	11.5
	LP-EPPZ	18	19	16.9	9.4	2.5
+ESE	18	25	54.0	4.0	2.4	
+ESN	18	25	56.0	2.2	1.4	
LP-PSE	18	27	46.9	17.8	11.5	
LP-SPPZ	18	28	43.1	16.9	11.0	
LP-LRE	18	50	48.8	22.5	11.0	
LP+LRZ	18	50	43.1	26.3	22.5	
+EPE	19	56	19.7	1.0	1.0	
+EPN	19	56	18.8	1.1	0.5	
+EPZ	19	56	20.7	1.2	0.6	
06	+EPE	09	48	28.2	1.1	1.1
	+EPN	09	48	28.2	1.0	0.6
	-EPZ	09	48	27.0	0.8	0.6
	+EPN	13	57	34.2	1.1	0.4
+IPZ	13	57	33.5	1.5	3.0	
07	LP-LRE	13	16	16.9	15.9	3.0
	LP-LRN	13	16	13.1	16.9	2.5
	LP-LRZ	13	16	11.3	18.8	5.0
08	+EPE	13	58	50.8	1.0	0.6
	+EPZ	13	58	50.4	1.1	2.3
	-EPE	14	58	01.1	0.7	0.6

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
OCT 08	+EPZ	14	58	00.9	0.8	2.0	
	-EPE	18	07	55.8	2.1	2.6	
	+EPN	18	07	47.8	1.2	0.7	
	+EPZ	18	07	46.5	1.2	0.6	
	+EPE	20	45	42.0	1.0	0.6	
	+EPN	20	45	41.6	1.0	0.6	
	+EPZ	20	45	52.0	0.9	0.5	
	LP+LRE	21	58	41.3	24.4	2.0	
	LP+LRN	21	58	56.3	26.3	2.0	
	LP+LRZ	21	58	46.9	26.3	5.5	
	09	+EPE	00	49	29.0	1.0	0.6
		EPN	00	49	30.8		
+EPZ		00	49	31.7	0.4	0.4	
+EPE		02	19	46.5	1.1	0.4	
+EPN		02	19	47.9	0.6	0.4	
+EPZ		02	19	48.0	1.0	0.6	
-EPE		22	21	52.0	1.5	1.8	
-EPZ		22	21	52.0	1.4	1.5	
+IPE		03	06	47.5	1.5	1.5	
+EPN		03	06	48.0	1.5	1.8	
+IPZ		03	06	46.9	2.1	3.8	
11		+IPE	06	42	20.0	1.4	1.6
	+IPZ	06	42	20.0	1.8	4.1	
	+EPE	10	23	40.8	1.0	1.2	
	+EPN	10	23	41.1	0.7	1.2	
	+EPZ	10	23	41.0	0.9	2.0	
	-IPE	21	15	02.0	1.0	1.0	
	-IPN	21	15	02.0	0.9	0.6	
	+IPZ	21	15	01.9	0.9	1.6	
	+EPE	21	43	14.0	0.8	0.5	
	+EPZ	21	43	13.0	1.1	1.2	
	12	-IPE	00	53	45.6	1.8	2.2
		+EPN	00	53	45.6	1.4	1.0
-IPZ		00	53	45.9	1.9	5.5	
+EPE		09	48	31.8	0.9	1.3	
-EPN		09	48	31.0	1.0	0.7	
+EPZ		09	48	32.0	1.0	1.5	
+EPE		20	10	52.5	1.0	1.3	
+EPN		20	10	51.8	1.3	1.5	
+EPZ		20	10	50.7	1.2	0.6	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 13	-EPE	11	40	47.3	1.1	1.1
	+EPN	11	40	47.3	1.1	0.8
14	+IPZ	11	40	47.1	1.5	3.0
	+EPE	02	22	29.8	1.1	1.0
	+EPN	02	22	29.7	1.1	0.5
	+EPN	07	38	16.0	1.2	0.7
	+EPZ	07	38	14.4	1.4	1.0
	+EPE	08	45	35.8	1.4	1.0
	-EPN	08	45	33.8	1.3	1.2
	+IPZ	08	45	32.0	2.0	1.7
	LP PPE	08	47	31.9		
	LP+PPZ	08	47	28.1	9.4	2.0
	LP+SPE	08	52	39.4	14.1	2.0
	LP-SPZ	08	52	39.4	9.4	2.0
	LP-SSE	08	56	28.1	18.8	2.0
	LP-LRE	09	03	39.4	15.9	12.0
15	LP+LRZ	09	03	35.6	20.6	24.0
	+EPN	17	20	23.7	1.2	0.3
	+EPZ	17	20	23.2	1.3	1.4
	-IPE	21	57	45.9	1.3	2.0
	+IPN	21	57	45.7	1.0	1.0
	+IPZ	21	57	45.6	1.4	2.9
	LP-ESE	22	01	46.9	13.1	2.0
	LP+ESN	22	01	45.0	9.4	2.0
	LP+ESZ	22	01	37.5	9.4	2.0
	LP+SSE	22	02	52.5	20.6	2.0
	LP+SSN	22	02	52.5	18.8	2.0
	LP+SSZ	22	02	48.8	22.5	3.0
	+EPN	00	42	30.0	1.0	0.3
	+EPZ	00	42	31.0	1.4	1.5
+EPN	02	16	08.0	1.2	0.6	
+EPZ	02	16	08.0	0.8	0.7	
-EPE	03	07	29.0	1.0	1.0	
+EPN	03	07	29.0	1.0	0.7	
+IPZ	03	07	29.0	1.1	3.6	
LP+LRZ	17	49	26.1	18.8	1.5	
+EPE	19	33	53.0	1.2	1.4	
+EPN	19	33	52.0	1.2	0.8	
+EPZ	19	33	52.0	0.5	0.6	
LP+LRN	20	11	18.8	15.9	2.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 15	LP-LRZ	20	11	09.4	16.9	2.5
	-EPE	05	09	20.0	0.8	0.6
16	+EPZ	05	09	19.9	1.0	1.2
	+EPE	08	54	35.8	1.1	0.9
	+EPN	08	54	35.0	0.9	1.0
	-EPZ	08	54	37.0	1.2	0.8
	+EPE	09	59	05.3	0.7	0.8
	+EPN	09	29	04.0	1.1	0.7
	+IPZ	09	59	05.1	0.8	1.1
	+EPE	10	13	01.3	1.5	1.4
	+EPN	10	13	01.0	0.6	0.4
	-IPZ	10	13	01.5	1.0	0.6
	-EPE	10	54	02.1	1.0	1.0
	+EPN	10	54	01.0	0.8	0.6
	+EPZ	10	54	02.0	1.0	0.6
	+EPE	16	49	36.0	1.1	0.8
17	+EPN	16	49	37.3	0.9	0.7
	+EPZ	16	49	37.6	1.1	1.5
	+EPE	00	51	30.4	1.1	0.5
	+EPN	00	51	29.8	1.2	0.7
	+EPZ	00	51	29.0	1.0	0.6
	+EPE	04	26	25.2	0.8	0.7
	+EPN	04	26	27.0	1.1	0.5
	+EPZ	04	26	25.7	1.2	0.8
	-EPE	07	09	41.7	1.0	0.5
	+EPN	07	09	41.7	1.0	0.5
	-EPZ	07	09	41.7	1.0	1.5
	+EPE	07	33	52.0	1.0	1.0
	+EPN	07	33	54.0	0.6	0.4
	-EPZ	07	33	53.7	0.7	0.7
+EPE	09	46	32.8	1.0	0.6	
+EPN	09	46	32.2	1.2	0.6	
+EPZ	09	46	33.2	1.3	1.0	
+EPE	11	00	12.0	1.0	0.7	
-EPN	11	00	12.0	1.0	0.7	
-EPZ	11	00	13.2	1.0	1.9	
+EPE	11	42	00.7	1.0	0.5	
+EPN	11	42	01.0	1.1	0.5	
-EPZ	11	42	01.3	0.6	0.6	
+EPE	13	51	36.1	1.2	0.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 17	+EPN	13	51	35.2	1.1	0.5
	+EPZ	13	51	36.0	1.3	0.8
18	+EPN	20	13	52.0	1.2	0.5
	+EPZ	20	13	53.2	1.2	0.8
	+IPE	01	03	30.0	1.5	2.2
	-IPN	01	03	30.0	1.5	2.2
	+EPZ	01	03	30.0	1.9	6.0
	+ISE	01	13	02.2	2.5	1.7
	+ISM	01	13	02.0	2.2	1.1
	LP+LRE	01	40	13.1	16.9	3.0
	LP+LRN	01	40	03.8	15.9	3.0
	+EPE	02	25	22.0	0.6	0.2
	+EPN	02	25	22.2	0.6	0.6
	-EPZ	02	25	22.2	1.0	1.0
	-EPE	04	58	54.8	1.0	0.9
	-EPN	04	58	56.6	1.1	1.0
	+EPZ	04	58	56.7	1.2	1.0
	+EPE	05	45	10.0	0.7	0.5
	-EPN	05	45	10.0	0.9	0.9
	+EPZ	05	45	10.0	0.6	0.5
	+EPE	06	57	13.0	0.7	0.8
	-EPN	06	57	12.7	1.0	1.0
	+EPZ	06	57	14.3	0.6	0.6
	-EPE	10	54	39.3	1.0	1.1
-EPN	10	54	37.1	1.1	1.1	
-EPZ	10	54	38.2	0.6	0.7	
-EPE	12	18	26.1	1.2	1.6	
-EPN	12	18	25.3	1.2	1.0	
+IPZ	12	18	25.6	1.6	3.0	
+EPE	12	53	18.9	1.2	1.4	
+EPN	12	53	18.8	1.0	1.0	
-IPZ	12	53	19.0	1.0	1.5	
-EPE	15	34	23.4	0.8	0.6	
-EPZ	15	34	25.0	1.0	0.7	
-EPN	15	34	25.2	1.0	0.5	
+EPE	17	55	12.5	1.0	0.5	
+EPN	17	55	10.8	0.8	0.4	
+EPZ	17	55	12.0	1.1	1.2	
-EPE	21	26	23.9	1.0	1.0	
+EPN	21	26	24.3	1.0	1.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 18	-EPZ	21	26	25.0	1.0	1.0
	+EPE	23	59	03.0	0.8	0.6
19	+EPN	23	59	04.0	1.0	0.4
	+EPZ	23	59	04.3	1.4	0.8
	+EPE	01	57	06.2	1.0	0.6
	+EPN	01	57	07.5	0.9	0.5
	+EPE	03	50	21.0	1.1	0.9
	+EPN	03	50	21.6	1.0	0.5
	+EPZ	03	50	21.5	1.0	0.8
	-EPE	07	28	55.9	1.1	0.9
	+EPN	07	28	56.2	1.0	0.6
	+EPZ	07	28	56.0	0.8	0.6
	-EPE	08	46	16.0	0.9	0.3
	-EPN	08	46	16.7	0.8	0.7
	-EPZ	08	46	17.0	1.0	1.0
	-EPE	09	37	36.0	1.1	0.6
	-IPN	09	37	36.5	1.3	1.1
	+IPZ	09	37	36.5	1.5	2.2
	+EPE	11	21	09.2	1.1	0.6
	+EPZ	11	21	09.5	1.0	0.6
	+EPE	12	35	26.0	1.2	0.7
	-EPN	12	35	28.8	1.2	0.3
	+EPZ	12	35	26.5	0.9	0.6
	-EPE	14	43	08.0	1.0	0.7
+EPN	14	43	08.6	0.9	0.7	
+EPZ	14	43	07.8	1.0	0.5	
-EPE	16	38	01.2	1.0	0.8	
+EPN	16	38	02.0	1.1	0.6	
+EPZ	16	38	03.1	0.7	0.6	
+EPE	18	49	26.3	1.0	0.6	
+EPN	18	49	25.0	1.5	0.8	
-EPE	20	51	36.5	1.0	0.7	
+IPN	20	51	35.0	1.2	1.0	
-EXZ	20	51	39.0	1.0	0.6	
20	-EPE	00	21	17.7	1.0	0.8
	-IPN	00	21	17.2	0.7	1.0
	+IPZ	00	21	17.1	1.0	1.8
	+EPE	00	30	04.0	1.2	1.0
	+EPN	00	30	02.5	1.0	0.7
	+EPZ	00	30	01.5	1.2	0.6

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 20	-EPE	02	01	11.7	1.1	1.0
	+IPN	02	01	11.3	1.2	1.2
	+IPZ	02	01	11.0	1.2	1.5
	+EPE	02	39	22.8	1.0	0.7
	+EPN	02	39	22.1	1.1	0.5
	+EPZ	02	39	22.4	0.9	0.5
	+EPE	06	19	43.0	0.9	0.3
	+EPN	06	19	43.0	1.2	0.6
	+EPZ	06	19	41.5	1.0	0.8
	+EPN	08	19	25.8	1.1	0.6
	-EPZ	08	19	28.4	1.1	1.6
	-EPN	09	15	09.0	1.0	0.7
	+EPZ	09	15	09.9	1.3	1.0
	-EPE	13	44	46.0	1.2	0.8
	-EXN	13	45	07.3	1.0	1.0
	-EXZ	13	45	06.9	1.5	1.6
	-EPE	17	19	58.0	1.0	1.2
	-EPZ	17	19	56.8	0.9	0.8
	-EPN	19	04	44.0	1.6	0.7
	21	+EPZ	19	04	44.9	0.6
-EPE		22	14	34.5	1.2	1.0
+EPZ		22	14	35.9	1.0	0.8
-IPE		04	05	41.8	1.8	1.6
+IPN		04	05	41.8	2.0	3.5
+IPZ		04	05	40.7	0.7	0.8
+EPN		04	45	41.0	1.2	1.0
-EPZ		04	45	39.0	1.0	1.0
+EPE		09	55	25.8	0.7	0.9
-EPN		09	55	25.0	0.8	0.5
+EPZ		09	55	25.9	0.8	0.5
+EPE		11	12	41.6	1.0	0.4
+EPZ		11	12	41.0	1.1	1.0
-EPE		15	15	02.3	1.2	1.0
+EPN		15	15	02.2	1.0	0.6
-IPZ		15	15	02.3	1.6	3.0
-EPE		19	25	51.5	0.8	0.6
-EPN		19	25	49.7	1.0	0.7
-EPZ		19	25	51.0	0.6	0.8
+EPE		20	52	10.1	1.0	1.0
+EPN	20	52	10.0	1.0	1.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
OCT 21	+EPZ	20	52	12.1	0.8	0.6	
	-EPE	23	06	26.8	1.0	0.6	
22	+EPN	23	06	28.0	1.0	0.8	
	+EPE	02	19	55.8	1.0	1.5	
	-EPN	02	19	55.6	0.8	1.5	
	-EPZ	02	19	56.0	1.1	1.0	
	-EPE	05	47	01.2	1.2	1.0	
	-EPN	05	47	03.2	1.1	1.0	
	-EPZ	05	47	03.0	1.2	1.0	
	-EPE	07	25	12.5	0.8	0.7	
	-EPN	07	25	10.7	1.0	0.9	
	+EPZ	07	25	11.1	0.8	0.9	
	-EPE	10	46	08.0	0.9	1.1	
	+EPN	10	46	07.7	1.0	1.0	
	+EPZ	10	46	07.7	0.9	1.0	
	-IPE	16	31	10.0	1.7	2.5	
	+IPN	16	31	09.4	1.4	2.7	
	+IPZ	16	31	09.2	1.5	4.9	
	-EPE	22	24	13.8	1.0	0.3	
	-EPN	22	24	12.8	0.8	0.5	
	23	-EPE	23	33	45.9	1.1	0.9
		-EPN	23	33	46.0	0.6	0.6
-EPZ		23	33	46.8	0.4	0.4	
+IPE		06	54	10.0	1.1	1.4	
+IPN		06	54	10.0	1.1	1.0	
+EPZ		06	54	09.2	0.7	0.6	
-EXE		07	44	44.9	1.6	1.2	
+EXN		07	44	43.9	0.8	0.6	
+EXZ		07	44	45.0	0.7	0.5	
+EPE		09	00	13.8	1.2	0.7	
+EPN		09	00	14.8	0.9	0.6	
+EPZ		09	00	14.9	0.5	1.5	
+IPE		16	06	46.8	1.6	4.5	
-IPN		16	06	46.9	1.3	1.9	
+IPZ		16	06	45.9	1.1	2.0	
-EPE		21	53	04.7	1.0	0.9	
-EPN		21	53	04.0	0.9	1.0	
-EPZ		21	53	05.1	1.0	0.9	
24		-IPE	02	27	06.0	1.2	1.3
		-IPZ	02	27	06.0	1.6	2.4

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
OCT 24	+EPE	04	45	12.0	1.1	1.3	
	-EPN	04	45	12.0	1.0	1.0	
	+EPZ	04	45	12.5	1.1	0.8	
	+IPE	08	25	01.5	1.0	1.5	
	+IPN	08	25	01.9	1.3	1.3	
	+IPZ	08	25	01.5	1.9	2.2	
	-EXE	08	27	57.0	1.0	1.1	
	+EXN	08	27	57.0	1.0	1.0	
	-EXZ	08	27	58.7	1.1	1.8	
	+ISE	08	27	51.0	1.0	0.9	
	+ISN	08	27	51.9	1.0	1.3	
	+ISZ	08	27	51.4	1.0	1.5	
	-EPE	20	31	48.2	1.1	1.0	
	+EPN	20	31	48.2	1.1	0.9	
+EPZ	20	31	47.6	1.5	2.1		
OCT 25	LP+LRE	21	03	05.6	24.4	1.5	
	LP-LRZ	21	02	52.7	22.5	1.5	
	+EPE	01	57	20.5	1.1	2.3	
	+EPN	01	57	20.6	0.9	0.4	
	+EPZ	01	57	19.9	1.0	1.6	
	+EPE	22	31	17.0	0.8	0.9	
	+EPZ	22	31	16.5	1.0	1.4	
	OCT 26	+EPE	13	04	42.8	1.1	1.6
		+IPZ	13	04	41.7	1.2	1.0
		+ISE	13	12	22.4	1.0	0.6
		+ISN	13	12	22.8	1.2	1.5
		-ISZ	13	12	23.0	1.4	3.9
	OCT 27	+EPE	16	09	28.5	1.2	0.9
		-EPN	16	09	28.8	0.8	1.3
-IPZ		16	09	28.0	1.1	2.9	
+IPE		21	08	13.0	1.3	2.5	
+EPN		21	08	12.8	1.1	0.6	
-IPZ		21	08	12.7	1.1	4.0	
OCT 28	-EPE	03	30	39.0	1.0	0.6	
	+EPN	03	30	39.0	1.1	0.8	
	+EPZ	03	30	41.0	1.1	0.8	
	-EPE	03	04	03.0	1.9	2.0	
OCT 29	+EPN	03	04	03.0	1.1	0.4	
	+IPZ	03	04	02.5	2.0	2.5	
	LP+PPPZ	03	09	41.3	17.6	7.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
OCT 29	LP-ISE	03	14	35.6	13.1	18.0	
	LP+ISN	03	14	48.8	13.1	34.5	
	-IPE	04	08	19.3	1.2	1.0	
	+EPN	04	08	18.0	1.1	0.3	
	OCT 30	-IPZ	04	08	19.0	2.2	4.3
		+IPE	09	07	01.8	1.3	2.3
		+IPN	09	07	01.9	1.0	0.8
		-IPZ	09	07	01.3	1.3	2.1
		+EPE	03	56	05.1	0.8	0.6
	OCT 31	+EPN	03	56	05.5	0.8	0.9
		+EPZ	03	56	05.4	0.8	2.0
		+EPE	09	06	31.3	1.7	2.4
		+EPN	09	06	32.7	1.9	1.6
		+EPZ	09	06	32.5	1.7	1.5
+IPE		12	26	11.5	1.4	1.6	
+EPN		12	26	12.2	1.1	0.5	
+IPZ		12	26	11.5	1.3	3.1	
+IPE		18	58	40.9	1.8	2.0	
+EPN		18	58	41.7	1.5	1.1	
+IPZ		18	58	40.9	2.0	5.0	
-ESE		19	09	06.0	3.0	2.8	
+ESN		19	09	05.0	1.2	0.8	
-ESZ		19	09	07.0	2.0	1.8	
NOV 01	LP+SKSIE	19	09	41.3	13.1	2.0	
	LP SKSIZ	19	09	39.4			
	LP+PPSE	19	11	33.5	16.9	1.5	
	LP+LRE	19	37	16.9	21.6	3.0	
	LP-LRZ	19	37	13.1	20.6	7.0	
	-IPE	07	06	01.5	1.5	1.9	
	+EPN	07	06	01.4	1.3	0.9	
	+IPZ	07	06	00.1	2.8	4.0	
	LP+ESE	07	16	52.5	10.3	4.5	
	LP+PSE	07	18	18.8	14.1	5.0	
	LP+PSZ	07	18	15.0	13.1	5.0	
	LP+LRE	07	41	50.6	23.4	7.0	
	LP-LRN	07	41	39.4	18.8	2.5	
	LP-LRZ	07	41	46.9	21.6	11.5	
LP+LRE	11	01	43.1	18.8	1.5		
LP+LRZ	11	01	48.8	18.8	2.0		
-IPE	18	05	19.7	0.7	1.0		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
NOV 01	-IPN	18	05	19.0	0.9	1.3	
	+IPZ	18	05	19.0	1.1	2.8	
	+EPE	22	41	30.5	1.2	1.2	
	+EPN	22	41	31.5	1.2	0.8	
	-EPZ	22	41	32.1	1.1	1.0	
	+EPN	23	51	18.5	0.8	0.6	
	+EPZ	23	51	16.6	0.8	1.0	
	02	+EPE	04	45	29.2	1.0	0.7
		-EPN	04	45	29.2	1.0	1.0
		+EPZ	04	45	28.0	1.2	0.9
		+EPE	04	58	05.2	1.8	2.2
		+EPN	04	58	04.5	0.9	0.8
		LP+LRE	05	00	11.3	18.8	2.0
		LP+LRZ	05	00	13.1	21.6	3.5
		-EPZ	04	58	04.0	1.1	1.0
		-IPE	07	21	31.9	2.4	10.9
		-IPN	07	21	31.9	2.3	4.5
		-IPZ	07	21	31.9	2.4	25.7
		-ESE	07	27	03.7	3.0	3.6
		-ESN	07	27	04.0	2.2	2.8
-ESZ		07	27	05.2	2.9	3.1	
LP-SSB		07	31	50.6	22.5	10.5	
LP+SSN		07	31	56.3	18.8	13.5	
LP+SSZ		07	31	50.6	24.6	9.5	
LP+LRE		07	35	54.4	14.7	7.0	
LP-LRN		07	35	58.1	18.8	6.5	
LP+LRZ		07	35	54.4	20.8	19.5	
-IPE	11	27	31.4	1.3	2.2		
-IPN	11	27	31.3	1.2	1.3		
-IPZ	11	27	31.2	1.5	4.7		
LP+ESE	11	34	20.6	15.0	3.0		
LP+ESN	11	34	20.6	14.1	3.5		
LP+LRE	11	42	07.5	13.0	4.5		
LP-LRN	11	42	13.1	22.5	4.0		
LP+LRZ	11	42	09.4	19.7	8.5		
03	-EPE	10	07	00.5	1.0	1.3	
	+ISZ	10	06	59.5	1.7	3.6	
04	+EXE	15	03	55.9	0.9	1.1	
	-EXN	15	03	57.0	0.9	1.0	
	+EXZ	15	03	57.5	0.7	1.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
NOV 04	-EXN	16	36	38.3	1.1	1.2	
	+EXZ	16	36	38.9	1.0	2.0	
	+IPE	16	56	10.8	1.2	3.8	
	-IPN	16	56	10.7	1.1	3.9	
	+IPZ	16	56	10.7	1.2	14.4	
	-ESE	16	58	10.9	2.0	1.2	
	+ESN	16	58	10.0	1.2	0.9	
	-ESZ	16	58	11.0	1.3	1.2	
	06	+EPE	05	41	36.5	2.0	2.6
		-EPN	05	41	36.2	1.2	1.1
	07	+EPZ	05	41	34.8	1.0	0.6
		LP-LRE	18	57	24.1	21.6	8.0
		LP+LRN	18	57	26.3	23.4	9.5
		-EPE	00	45	25.2	1.0	1.0
		+EPN	00	45	25.1	1.1	1.1
		-IPZ	00	45	25.4	1.1	1.4
		+EPE	02	16	20.1	1.1	0.8
		+EPZ	02	16	20.1	0.6	1.0
		LP-LRN	04	55	53.4	18.8	4.0
		+EPE	07	19	27.1	1.3	0.8
+EPN		07	19	26.2	1.3	1.0	
+EPZ		07	19	27.1	1.2	1.2	
+IPE		17	22	32.0	1.2	2.1	
+IPZ		17	22	31.6	1.5	4.3	
LP+PPE		17	26	28.1	18.8	3.0	
LP+SXSIE		17	33	07.5	11.3	8.5	
LP+SXSIN		17	33	05.6	13.1	4.5	
LP-ESE		17	33	52.5	12.2	11.0	
LP-ESN		17	33	52.5	11.3	4.0	
LP+SPPE		17	35	13.1	18.8	11.5	
LP+SPPN	17	35	11.3	22.5	4.0		
LP-ESSE	17	40	50.6	24.4	9.5		
LP-ESSN	17	40	56.3	20.6	5.0		
LP+LRE	17	55	24.4	22.5	21.5		
LP+LRN	17	58	24.4	23.4	15.5		
08	+EPE	05	58	24.5	1.1	0.8	
	+EPN	05	58	25.3	0.8	0.8	
	+EPZ	05	58	25.3	0.7	0.6	
	-EPE	07	01	38.9	1.7	1.4	
	+EPZ	07	01	38.0	1.2	1.8	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
NOV 08	+EPE	07	38	59.9	1.2	1.1	
	+IPZ	07	38	59.7	1.0	1.4	
	-EPE	08	38	33.0	1.2	1.0	
	+EPZ	08	38	32.0	2.2	2.9	
	LP+PPN	08	41	58.1	15.0	1.5	
	-EPN	09	29	07.5	1.0	0.7	
	-EPZ	09	29	07.3	1.0	1.1	
	+ESE	09	29	31.6	1.5	1.7	
	+ESN	09	29	32.0	1.1	0.6	
	+ESZ	09	29	30.0	1.4	1.0	
	-IPE	11	02	00.9	1.8	2.5	
	-IPZ	11	02	00.8	1.9	6.5	
	-IPE	18	41	19.2	1.6	2.1	
	-IPN	18	41	18.7	1.5	1.5	
	+IPZ	18	41	18.6	1.7	5.0	
	+ESE	18	51	07.0	1.2	0.7	
	-ESN	18	51	07.0	1.8	0.9	
	+ESZ	18	51	07.7	1.3	0.7	
	LP+LRZ	19	12	26.3	20.6	1.5	
	-IPE	21	06	16.0	1.1	3.3	
	-IPN	21	06	16.0	1.0	2.0	
	+IPZ	21	06	16.0	1.1	9.0	
	09	+EPE	04	13	40.8	0.6	0.6
		-EPN	04	13	40.7	0.6	1.0
		+EPZ	04	13	40.8	0.5	0.6
		LP-LRE	07	28	56.3	15.0	1.0
		LP+LRN	07	28	46.9	20.6	2.0
		LP-LRZ	07	28	54.4	20.6	3.0
		-EPE	09	21	36.5	1.0	1.0
		+EPN	09	21	36.5	1.4	0.9
		+EPZ	09	21	37.0	2.5	1.6
		+EPN	10	33	02.3	0.9	0.3
-IPZ		10	33	02.2	1.0	1.1	
LP+ESE		10	43	50.6	15.0	2.5	
LP-ESN		10	43	48.8	9.4	5.0	
LP+ESZ		10	43	45.0			
LP+LRE		11	09	46.9	18.8	3.5	
LP+LRN		11	09	37.5	20.6	4.0	
LP-LRZ		11	09	42.2	19.7	8.5	
+EPE	22	57	06.2	1.0	1.1		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
NOV 09	+EXN	22	57	13.5	0.9	0.3
	-EXZ	22	57	12.7	1.0	1.0
10	+IPE	05	44	45.0	1.4	1.7
	+EPN	05	44	45.0	1.0	0.3
	LP+LRN	08	11	03.8	20.6	3.0
	LP-LRZ	08	11	07.5	20.6	5.0
	+EPE	08	59	24.5	1.7	1.7
	+EPN	08	59	25.0	1.4	0.9
	+EPZ	08	59	25.7	1.7	1.0
	+EXE	03	34	34.0	2.0	1.0
	+EXZ	03	34	36.7	2.1	1.4
	-EPE	11	06	22.2	0.9	0.7
11	+EPN	11	06	23.0	1.0	0.5
	+EPZ	11	06	21.0	0.6	0.5
	+ESE	11	07	02.0	1.2	1.7
	-ISZ	11	07	02.0	1.4	2.3
	+EPE	14	49	20.1	1.0	1.7
	+EPN	14	49	20.0	1.0	1.5
	-IPZ	14	49	20.0	1.3	1.6
	+EPE	12	58	20.2	1.6	1.2
	-EXN	12	58	25.0	0.9	0.9
	+EPZ	12	58	20.7	1.7	0.6
	+EXE	15	07	32.9	1.0	0.7
	+EXN	15	07	33.0	1.2	0.6
	+EPZ	15	07	19.5	1.2	1.1
	-ESE	15	11	58.0	2.0	2.0
14	-EXZ	15	11	37.3	1.2	1.1
	+IPE	13	33	49.1	1.7	8.3
	+IPN	13	33	49.0	1.2	2.0
	-IPZ	13	33	45.0	1.7	18.3
	-ISE	13	38	39.1	1.5	1.8
	+ISN	13	38	39.0	1.1	1.4
	+ISZ	13	38	40.0	1.1	1.0
	+IPE	03	34	17.2	1.1	1.5
	-EPN	03	34	17.8	0.5	0.3
	+IPZ	03	34	17.5	1.2	4.5
15	+EPE	14	11	56.0	1.5	0.6
	+IPZ	14	11	55.0	1.2	1.7
	LP+PSE	14	23	30.0	13.1	1.5
	LP+SSE	14	30	11.3	13.1	2.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
NOV 15	LP+SSN	14	30	16.9	13.1	2.5
	LP+LRE	15	00	56.3	18.8	8.0
16	LP+LRN	15	00	41.3	18.8	12.0
	LP+LRZ	15	00	43.1	20.6	3.5
	-IPE	03	43	54.9	1.0	1.0
	+EPN	03	43	55.0	1.2	0.7
	+IPZ	03	43	55.2	1.2	0.9
	+EPE	15	46	57.5	1.2	1.1
	-EPN	15	46	57.3	1.0	1.0
	-EPZ	15	46	57.0	1.3	2.4
	+IPE	18	27	36.8	1.5	1.9
	+IPN	18	27	37.0	1.1	0.7
	+IPZ	18	27	37.0	1.8	2.9
	LP+IPPE	18	28	52.5	7.5	4.0
	LP+IPPN	18	28	51.6	9.4	5.0
	LP+IPZ	18	28	52.5	6.6	6.0
	LP+PPPE	18	29	20.6	9.4	4.0
	LP+PPPN	18	29	18.8	10.3	4.5
	LP+ISE	18	33	15.9	12.2	7.0
	LP-ISN	18	33	16.9	11.3	8.0
	LP+ESZ	18	33	16.9	6.6	2.5
	LP+SSE	18	35	09.4	15.9	8.0
LP-SSN	18	35	10.3	16.9	7.5	
LP+LRE	18	38	48.8	20.6	46.0	
LP-LRN	18	38	42.2	18.8	25.5	
LP-LRZ	18	38	43.1	17.8	5.0	
17	-IPE	05	53	00.0	0.6	2.0
	+EPN	05	53	00.2	0.5	0.6
	-IPZ	05	53	00.0	0.7	3.5
	+EPE	08	28	55.6	1.2	1.0
	+EPN	08	28	54.8	1.0	0.7
	+IPZ	08	28	54.3	1.2	1.4
	+EPE	15	43	41.8	1.0	0.9
	+EPN	15	43	41.7	0.8	0.4
	+EPZ	15	43	41.6	1.1	1.0
	-EPE	02	08	38.0	1.2	0.6
18	-EPN	02	08	37.6	1.0	0.3
	-EPZ	02	08	37.7	2.2	2.0
	LP-EPE	03	37	09.4		
	LP-EPN	03	37	15.0		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
NOV 18	LP-EPPE	03	40	56.3	15.0	2.0	
	LP+ISE	03	47	46.9	14.1	11.0	
19	LP-ESN	03	47	46.9	13.1	4.0	
	LP+SSE	03	54	26.3	19.7	10.0	
	LP+SSSN	03	57	52.5	16.9	4.5	
	+IPE	04	07	03.2	1.6	2.0	
	+IPN	04	07	03.9	1.5	1.0	
	+IPZ	04	07	03.1	2.0	4.7	
	+IPE	05	56	30.9	2.3	1.6	
	-EPN	05	56	33.0	1.0	0.7	
	-IPZ	05	56	30.0	2.5	4.5	
	LP-ESE	06	07	05.6	14.1	8.0	
	LP+ISN	06	07	09.4	15.0	14.5	
	LP-PSE	06	08	15.9	14.1	15.0	
	LP-PSN	06	08	15.0	15.0	4.5	
	LP+SSE	06	13	14.1	14.1	7.5	
	LP+SSN	06	13	06.6	15.0	7.0	
	LP+SSSE	06	16	52.5	16.9	6.5	
	LP+LRE	06	34	09.4	18.8	72.0	
	LP-LRN	06	34	16.9	17.8	39.0	
	-EXE	06	36	52.0	2.0	1.0	
	-EXN	06	36	57.0	1.4	2.0	
+EXZ	06	36	53.0	1.6	1.0		
20	+EPN	04	09	16.7	1.0	0.3	
	+IPZ	04	09	15.9	1.2	1.3	
	+IPE	21	55	47.3	1.0	1.0	
	+IPZ	21	55	47.8	1.1	2.3	
	-EPE	19	33	32.7	1.0	0.9	
	+EPN	19	33	32.6	1.0	0.6	
	+IPZ	19	33	32.5	1.0	1.2	
	+EPE	06	46	25.1	1.0	1.5	
	+EPN	06	46	25.0	1.2	0.9	
	+EPZ	06	46	26.0	1.0	0.7	
21	+EPN	07	13	16.0	1.1	0.7	
	+EPZ	07	13	16.9	0.6	0.6	
	-IPE	17	47	28.0	1.4	1.5	
	+IPZ	17	47	28.1	1.0	1.0	
	+EPE	04	53	33.9	1.8	1.5	
	+EPN	04	53	32.7	1.2	0.3	
	+IPZ	04	53	34.0	1.0	1.5	
	22						

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
NOV 22	LP-ESE	04	59	26.3	11.5	6.0	
	LP+ESN	04	59	30.0	9.4	4.0	
	LP+ESZ	04	59	25.3	9.4	2.0	
	LP+SSE	05	02	03.8	16.9	9.0	
	LP-SSN	05	02	03.8	15.9	6.5	
	LP+LRZ	05	04	16.9	24.4	11.0	
	+EPE	13	26	56.0	0.8	0.6	
	-EPN	13	26	58.0	1.1	0.7	
	-EPZ	13	26	58.9	0.9	1.0	
	-IPE	18	19	47.1	0.8	0.9	
	+IPN	18	19	46.9	0.8	1.5	
	+IPZ	18	19	46.8	1.0	5.0	
	-IPE	23	27	52.0	1.8	2.2	
	+EPN	23	27	50.8	1.8	0.4	
	-IPZ	23	27	52.0	1.6	5.5	
	23	-IPE	03	22	29.0	1.1	0.6
		+IPZ	03	22	28.0	1.1	1.5
		-EPE	05	21	54.7	0.9	1.0
		-EPN	05	21	55.3	1.0	1.0
		+IPZ	05	21	54.0	1.0	4.5
		+EPE	11	06	14.8	1.3	1.4
		+EPN	11	06	15.2	0.8	0.3
		+IPZ	11	06	14.9	1.3	3.0
24		+EPE	01	53	54.4	1.2	0.9
		+EPN	01	53	54.4	0.7	0.7
	-EPZ	01	53	54.0	1.7	1.4	
	LP+LRZ	02	43	20.6	22.5	3.0	
	+EPE	11	37	53.1	0.7	0.7	
	+EPN	11	37	55.3	0.8	0.9	
	+EPZ	11	37	55.0	1.0	2.6	
	-EPN	12	36	42.0	2.0	0.7	
	-EPZ	12	36	42.4	1.5	1.0	
	LP+EPPN	12	41	20.3	12.2	4.0	
	LP+IPPZ	12	41	19.7	14.1	8.0	
	LP+SKS1N	12	47	30.0	13.1	11.0	
	LP+SPN	12	50	41.3	13.1	11.5	
	LP+SPZ	12	50	41.3	16.9	14.5	
	LP-PPSZ	12	51	33.8	19.7	19.0	
LP-SPPE	12	51	45.0	15.9	8.5		
LP+SPPN	12	51	45.0	16.9	20.5		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
NOV 24	LP+SSPN	12	56	48.0	27.2	22.0
	LP+SSPZ	12	56	46.9	22.5	20.5
25	+EPE	16	28	57.0	1.3	0.6
	+EPN	16	28	57.5	1.3	0.3
	+IPZ	16	28	56.0	1.9	1.8
	+ESE	16	32	28.8	1.2	1.1
	-ISN	16	32	30.0	1.2	1.7
	-ISZ	16	32	29.5	1.4	1.7
	-IPE	14	18	36.8	1.6	9.0
	+IPN	14	18	36.6	1.4	9.1
	-IPZ	14	18	36.4	1.7	34.6
	+ISE	14	28	15.7	1.6	2.5
	+ISN	14	28	17.6	1.3	3.0
	+ISZ	14	28	15.8	2.8	5.6
	LP+EPSE	14	31	39.4	14.1	7.0
	LP+IPSN	14	31	40.3	12.2	10.5
	+IPE	16	24	07.7	1.0	1.4
	+IPN	16	24	07.7	1.1	1.9
	+IPZ	16	24	07.8	1.0	5.3
	+IPE	20	35	07.7	1.0	1.4
	+IPN	20	35	07.7	1.1	1.9
	+EPZ	20	35	13.5	1.0	5.3
26	LP+ESE	20	44	15.0	13.1	4.0
	LP+ESN	20	44	16.9	15.9	2.0
	LP-LRE	20	58	16.9	16.9	9.5
	LP+LRN	20	58	31.9	20.6	5.5
	-IPE	00	47	09.8	1.0	2.0
	+IPN	00	47	09.6	1.0	2.3
	+IPZ	00	47	09.3	1.1	5.3
	+EPE	10	05	50.9	0.7	1.5
	+EPN	10	05	51.3	0.6	0.6
	-EPZ	10	05	50.6	1.1	2.1
	+IPE	11	39	17.6	1.5	0.8
	+IPN	11	39	18.0	1.0	0.8
	+IPZ	11	39	16.0	1.0	1.5
	LP PKP3Z	11	39	15.0		
	LP PKP1N	11	39	35.6		
LP-PKP1Z	11	39	35.6	15.9	11.0	
LP+EPPN	11	43	01.9	11.3	3.0	
LP EPPZ	11	43	03.8			

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
NOV 26	LP-ISSE	12	02	28.1	15.0	10.0	
	LP+ESSN	12	02	28.1	13.1	4.0	
27	-IPE	15	00	50.2	1.0	2.3	
	-IPN	15	00	50.1	0.8	1.5	
	+IPZ	15	00	50.0	1.0	5.7	
	+IFE	04	12	05.0	1.5	2.0	
	+IPN	04	12	04.4	1.1	1.5	
	-IPZ	04	12	04.5	1.1	4.5	
	+EPE	04	46	40.0	1.4	2.0	
	+IPN	04	46	40.8	1.3	1.1	
	+IPZ	04	46	40.4	1.3	6.5	
	-IPE	18	32	30.4	0.7	1.0	
	+IPN	18	32	30.8	0.9	0.9	
	+IPZ	18	32	30.4	0.9	2.5	
	-EPE	20	16	25.9	1.1	1.1	
	-EPN	20	16	25.3	2.0	2.0	
30	+EPZ	20	16	24.7	2.2	2.1	
	+EPE	22	00	17.4	1.2	0.5	
	+EPN	22	00	17.0	1.2	0.3	
	+IPZ	22	00	16.1	1.2	1.5	
	+IPE	00	52	44.0	1.0	1.2	
	-IPN	00	52	44.7	0.7	1.9	
	-IPZ	00	52	44.2	1.1	3.5	
	LP-IPPE	00	55	54.4	15.0	27.0	
	LP-IPP	00	55	56.3	13.1	25.0	
	+ISE	01	02	27.0	3.0	27.0	
	-ISN	01	02	27.0	3.0	23.5	
	-ISZ	01	02	29.3	3.7	18.5	
	LP-SSE	01	08	11.3	14.1	166.5	
	DEC 02	-EPE	01	38	22.0	1.0	0.6
-EPN		01	38	23.1	1.0	0.6	
+EPZ		01	38	22.3	1.0	0.9	
+EPE		16	24	23.5	1.2	0.5	
+EPN		16	24	23.0	1.2	1.7	
+EPZ		16	24	22.5	1.2	1.4	
03		+EXE	02	27	39.7	1.1	0.8
		+EXN	02	27	38.8	1.5	0.8
		+EXZ	02	27	37.8	2.0	1.9
		-EPE	04	35	12.0	1.2	1.0
		+EPN	04	35	13.0	1.5	2.1

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
DEC 03	+EPZ	04	35	11.8	0.7	0.6
	+EXE	05	39	47.8	1.0	1.1
04	-EXN	05	39	48.3	1.2	1.7
	+EXZ	05	39	48.4	1.3	6.6
	+IPE	17	13	01.7	1.4	2.0
	-IPN	17	13	01.9	1.1	2.1
	+IPZ	17	13	01.5	1.3	4.2
	-ESE	19	22	34.8	0.9	1.6
	+ESN	19	22	33.4	1.1	0.9
	+ESZ	19	22	34.1	1.4	4.4
	-EPE	23	22	10.4	1.0	1.2
	-EPN	23	22	11.0	1.0	0.9
	+EPZ	23	22	09.3	1.1	1.5
	+IPE	05	18	26.0	1.1	0.9
	-IPN	05	18	26.2	0.7	1.1
	-IPZ	05	18	26.0	1.3	4.0
	-ISE	05	18	54.0	1.1	1.2
	+ESN	05	18	54.0	1.0	1.2
	+ISZ	05	18	54.0	1.3	3.8
	+IPE	05	42	58.1	1.5	1.7
	+IPN	05	42	58.0	1.1	1.1
	+IPZ	05	42	58.0	1.3	4.0
05	+IPE	12	44	19.7	1.3	8.5
	+IPN	12	44	19.5	1.2	7.3
	-IPZ	12	44	19.5	1.5	42.0
	+ISE	12	54	03.1	2.7	2.5
	-ISN	12	54	02.0	3.1	3.0
	+EPE	21	31	37.3	1.2	0.7
	-EPN	21	31	35.7	0.8	0.6
	-EPZ	21	31	36.5	1.5	1.9
	LP-EPE	21	33	19.8	9.4	1.5
	LP-EPZ	21	33	19.7	8.4	2.5
	LP-PPE	21	35	09.4	15.0	2.0
	LP+ISE	21	39	54.4	15.0	9.5
	LP-LRE	21	51	16.8	16.9	55.0
	LP-LRZ	21	51	17.8	16.9	12.5
05	+EPE	03	25	01.5	1.0	0.5
	+EPN	03	25	02.1	0.9	0.3
	+EPZ	03	25	00.1	1.0	0.7
	+EPE	10	56	57.0	0.8	0.7

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
DEC 05	+EPN	10	56	57.0	1.1	0.7
	+EPZ	10	56	57.6	0.5	0.5
06	+IPE	19	57	43.5	1.0	0.6
	-IPN	19	57	43.0	1.1	1.1
	-IPZ	19	57	42.5	1.0	1.4
	LP+ESE	20	07	26.3	11.3	2.0
	LP+ESN	20	07	25.3	13.1	2.0
	LP+LRE	20	28	24.4	16.9	4.0
07	LP+LRN	20	28	09.4	19.7	5.0
	-EPE	05	15	54.8	1.0	1.2
	-IPN	05	15	54.5	0.7	0.6
	+IPZ	05	15	54.0	0.9	4.4
	-IPE	11	28	30.1	1.2	2.0
	+IPN	11	28	30.0	1.8	1.8
	+IPZ	11	28	29.0	1.4	3.3
	LP+ESE	11	39	01.9	13.1	3.0
	LP-ESN	11	39	01.9	11.3	2.0
	LP-SKSE	11	39	58.1	9.4	2.0
	LP+PSE	11	40	30.0	11.3	4.0
	LP+LRE	12	06	07.5	18.8	10.5
	LP+LRN	12	06	20.6	17.8	5.0
	LP+LRZ	12	06	09.4	18.8	3.0
	+EPE	12	11	29.0	0.7	0.6
	-EPZ	12	11	28.4	1.1	1.3
	+ESE	12	24	42.4	1.3	1.3
	+ESN	12	24	40.8	1.7	0.9
08	-ESZ	12	24	41.8	1.4	2.4
	+IPN	08	46	13.6	1.0	1.8
09	-IPZ	08	46	13.3	1.3	2.9
	+EPE	02	59	23.6	1.0	1.5
	+EPN	02	59	23.6	0.9	0.5
	-IPZ	02	59	23.4	1.2	3.5
	-IPE	03	07	22.8	1.1	1.4
	+IPN	03	07	22.5	1.8	1.5
	+IPZ	03	07	22.0	1.0	1.9
	LP+EXE	03	20	22.5	11.3	1.5
	LP+EXN	03	20	23.4	16.9	2.0
	LP+EXE	03	25	07.5	15.0	3.0
	LP+EXN	03	25	07.5	17.8	3.0
	LP+EXE	03	29	26.3	15.0	2.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
DEC 09	+EPE	03	30	45.0	1.4	0.8
	+EPN	03	30	44.8	1.0	0.5
	-EPZ	03	30	45.6	1.1	1.2
	+EPE	10	10	54.0	1.4	0.5
	+EPZ	10	10	54.0	1.5	1.0
	LP+LRE	11	14	20.6	16.9	3.0
	LP-LRN	11	14	18.8	18.8	4.0
	+EPE	14	06	24.0	1.1	1.0
	+EPN	14	06	25.0	1.2	0.5
	+EPZ	14	06	26.0	1.4	1.0
	-EPE	16	09	49.0	1.9	1.2
	+EPN	16	09	48.6	1.1	0.3
	-EPZ	16	09	49.0	1.5	2.0
	+EPE	21	18	41.0	0.6	1.0
	+EPN	21	18	39.0	0.4	0.9
	-EPZ	21	18	41.1	0.9	1.5
10	-EPE	22	19	29.2	0.8	2.0
	-EPN	22	19	29.0	1.2	2.5
	+EPZ	22	19	29.4	1.1	3.3
	+EPE	18	20	39.8	1.0	0.5
11	-EPN	18	20	37.9	1.0	0.5
	+IPZ	18	20	39.0	0.8	0.6
	LP-ESE	18	31	22.5	9.4	3.0
	LP-ESN	18	31	18.8	12.2	2.5
	LP+LRE	18	50	43.1	19.7	4.0
	LP-LRN	18	50	30.0	19.7	8.0
12	-IPE	01	26	43.9	1.1	1.7
	+IPN	01	26	43.8	0.6	0.9
	-IPZ	01	26	43.6	1.1	9.5
	+ISE	01	28	11.0	1.4	2.1
	-ISZ	01	28	11.7	1.8	5.3
	+IXE	01	29	30.0	1.2	2.3
	+IXN	01	29	29.2	1.1	1.4
	+IXZ	01	29	30.0	2.0	9.1
	LP+PPPE	01	32	54.4	9.4	2.0
	+EXE	01	34	15.0	1.8	1.0
	+EXN	01	34	17.9	1.5	1.2
	+EXZ	01	34	17.5	1.5	1.5
	-IPE	05	40	17.2	1.9	1.5
	+IPN	05	40	17.2	1.3	2.2

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
DEC 12	+IPZ	05	40	16.5	1.6	4.6
	+EPE	21	21	47.5	0.8	1.0
	+EPN	21	21	51.7	1.5	1.5
	+EPZ	21	21	51.8	1.5	1.2
13	LP-EXE	04	12	13.1	13.1	2.0
	LP-EXN	04	12	15.0	9.4	2.0
	LP-ESE	04	15	07.5	15.0	2.0
	LP-ESN	04	15	03.8	15.0	2.5
14	-EPE	07	41	04.0	1.0	0.9
	-EPN	07	41	03.0	1.2	0.7
	+EPZ	07	41	03.5	1.1	1.5
	-EPE	16	25	25.9	1.5	1.5
	+EPN	16	25	25.0	1.2	0.6
	+IPZ	16	25	25.0	1.5	2.2
	LP+EPZ	16	26	35.6	13.0	2.5
	LP-SK51L	16	32	20.6	9.4	2.0
	LP-SK51Z	16	32	35.6	10.0	2.0
	LP-ESL	16	36	16.8	16.9	3.0
	LP-ESN	16	36	16.8	16.9	2.5
	LP-EPZ	16	36	16.9	17.0	5.0
	+EPE	20	42	14.3	2.0	1.4
	-IPZ	20	42	16.0	1.1	0.7
	-IPZ	20	42	16.5	1.9	6.0
	15	+IPE	02	45	44.3	1.0
-IPE		02	45	45.0	1.0	0.6
-IPZ		02	45	44.5	1.5	1.9
-IPE		03	32	13.0	1.0	1.4
+IPE		03	32	14.5	1.0	0.9
+IPZ		03	32	13.5	1.0	2.5
+IPE		07	23	22.2	1.7	2.0
-IPE		07	23	22.5	1.4	2.0
+IPZ		07	23	22.5	1.6	5.0
+EXE		23	11	40.3	1.0	1.8
-IPE		23	11	35.9	1.0	0.7
+IPZ		23	11	40.3	1.0	4.7
16	-IPE	12	42	51.0	1.7	1.9
	+IPE	12	42	51.0	1.0	2.1
	+IPZ	12	42	50.6	1.2	4.0
	-ESL	12	44	55.3	1.0	1.5
	+ESN	12	44	55.3	1.0	1.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
DEC 16	+ESZ	12	44	55.0	1.5	1.3	
	LP-EXZ	06	23	20.6	17.8	13.0	
17	LP+EXZ	06	23	50.6	16.9	6.5	
	+EPE	07	06	49.8	1.0	0.7	
	-EPN	07	06	51.0	0.8	0.8	
	+EPZ	07	06	51.0	0.6	0.7	
	+EPE	20	34	54.0	1.0	1.6	
	-EPN	20	34	54.8	0.8	1.2	
	-IPZ	20	34	54.2	1.0	4.8	
	+ISE	20	35	23.8	0.9	1.3	
	-ISN	20	35	23.0	1.2	1.3	
	-ISZ	20	35	23.0	1.0	3.8	
	18	-IPE	15	07	40.0	1.1	1.6
		+IPN	15	07	39.7	1.2	1.3
	19	+IPZ	15	07	39.0	1.2	4.6
		+IPE	01	05	53.3	1.1	1.4
		-IPN	01	05	54.3	1.3	1.7
-IPZ		01	05	53.2	1.7	2.6	
-IPE		12	29	26.2	1.2	1.4	
+EPN		12	29	27.0	1.0	0.6	
+IPZ		12	29	26.5	1.4	2.0	
-EPN		21	57	15.7	1.8	0.7	
+EPZ		21	57	15.2	1.2	1.3	
+EPE		08	49	14.2	1.0	1.2	
+EPZ		08	49	13.0	0.6	0.4	
+IPE		10	17	02.0	1.3	1.0	
20	-EPN	10	17	01.9	1.1	1.0	
	+EPZ	10	17	00.1	1.6	2.0	
	-EPE	13	49	47.0	1.0	0.9	
	+EPZ	13	49	45.2	1.5	2.2	
	+EPN	20	53	06.7	1.2	0.4	
	-EPZ	20	53	06.0	1.4	0.8	
	+ESE	20	57	27.0	1.7	1.5	
	+ESN	20	57	27.5	2.2	1.8	
	+ISZ	20	57	28.0	2.3	2.7	
	LP+SPEL	21	10	52.5	15.0	6.0	
	+EPN	21	12	16.1	1.1	0.6	
	+EPZ	21	12	16.1	1.1	1.0	
	+EPE	21	17	16.2	1.1	0.8	
	-EPN	21	17	19.2	1.0	0.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
DEC 20	+EPZ	21	17	19.0	1.0	0.8	
	LP+SSE	21	17	30.0	15.0	3.5	
	LP-SSPE	21	18	35.6	11.3	2.0	
	LP+SSPE	21	18	35.6	16.9	7.5	
21	-EXE	00	09	50.3	1.2	1.8	
	+EXN	00	09	51.1	1.1	0.3	
	+EXZ	00	09	49.4	0.5	0.6	
	-EXE	08	19	39.8	0.6	1.2	
	-IPN	08	19	39.0	0.6	0.6	
	-IPZ	08	19	39.5	1.0	3.0	
	-EPE	19	40	42.1	1.1	1.5	
	-EPN	19	40	42.9	0.8	0.9	
	+IPZ	19	40	41.5	1.2	1.1	
	+EPE	21	26	02.7	1.3	1.0	
	-EPN	21	26	02.5	0.9	1.0	
	-EPZ	21	26	02.4	1.0	2.0	
	22	+EPE	11	20	02.7	1.1	1.0
		-IPN	11	20	03.0	0.9	1.0
	23	+IPZ	11	20	02.0	1.0	1.3
-IPE		08	23	32.0	1.6	3.5	
+IPN		08	23	31.9	1.2	0.9	
+IPZ		08	23	31.9	1.6	5.0	
LP-ESE		08	33	58.1	8.4	2.0	
LP-ESN		08	33	46.9	13.1	7.5	
LP-ESZ		08	33	54.4	15.9	3.0	
-EPE		09	58	52.1	1.0	0.3	
+EPN		09	58	52.9	1.3	0.3	
-EPZ		09	58	51.8	1.4	1.1	
LP-LRN		11	00	15.9	18.8	2.0	
LP-LRZ		11	00	12.2	17.8	4.0	
+EPE		12	45	16.8	1.1	1.5	
+EPN		12	45	16.8	0.7	1.4	
24		-EPZ	12	45	17.0	0.8	1.6
	+IPE	09	05	51.0	1.1	0.6	
	EPN	09	05	51.7			
	-IPZ	09	05	51.0	1.2	1.1	
	LP-LRE	09	26	20.6	20.6	3.0	
	LP+LRZ	09	26	25.3	20.6	7.0	
	+IPE	10	25	23.0	1.2	1.0	
	+EPN	10	25	23.7	0.9	0.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
DEC 24	+IPZ	10	25	23.0	1.2	2.0	
	+IPE	14	29	44.0	1.1	1.2	
	+IPN	14	29	43.3	1.1	0.7	
	-IPZ	14	29	43.5	1.3	2.3	
25	+IPE	21	36	12.8	1.6	1.6	
	+IPN	21	36	13.0	1.2	0.7	
26	+IPZ	21	36	12.8	1.8	4.5	
	+IPE	02	38	44.8	1.2	1.1	
	+IPN	02	38	45.4	1.0	1.0	
	+IPZ	02	38	45.0	1.1	2.2	
	+IPE	19	41	35.0	2.9	2.9	
	+IPN	19	41	36.0	2.4	1.3	
	-IPZ	19	41	35.6	2.7	5.0	
	LP-ESE	19	47	56.3	12.2	7.0	
	LP+ESN	19	47	45.9	9.4	3.5	
	LP+SSSE	19	51	12.2	11.3	3.5	
	LP+SSSN	19	51	13.1	12.2	3.0	
	LP+LRE	19	53	37.5	23.4	3.5	
	LP+LRZ	19	53	33.8	22.5	10.5	
	27	+EPN	06	41	42.0	0.8	0.9
		+EPZ	06	41	41.2	0.7	0.7
28	+EPE	02	39	15.8	1.0	1.3	
	-EPN	02	39	15.7	0.9	1.2	
	+EPZ	02	39	15.5	1.0	2.3	
	+IPE	14	03	40.0	1.2	4.5	
	+IPN	14	03	39.7	1.2	2.8	
	-IPZ	14	03	39.9	1.3	15.4	
	+IPPE	14	04	13.0	1.0	5.2	
	+IPPN	14	04	13.0	1.6	4.5	
	-IPZ	14	04	13.0	1.0	14.4	
	ISE	14	13	15.3			
	-ISN	14	13	17.5	2.8	4.8	
	-ISZ	14	13	15.0	2.4	2.1	
	LP+IPSE	14	14	15.0	15.0	10.5	
	LP-IPSN	14	14	13.1	10.3	9.5	
	LP-ESSE	14	18	30.0	13.1	7.0	
	LP-ESSN	14	18	22.5	9.4	6.0	
	LP+ESSZ	14	18	33.8	15.9	4.5	
	+IPE	18	19	39.0	1.2	2.2	
	-IPN	18	19	38.8	1.1	2.4	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
DEC	28	+IPZ	18	19	38.9	1.2	13.2
	29	+EXE	06	43	37.0	1.2	0.3
		+EXN	06	43	37.0	1.0	0.3
		+EXZ	06	43	35.5	1.2	0.5
		-EPE	13	30	45.1	1.2	1.0
		+EPN	13	30	45.3	1.1	0.7
		+EPZ	13	30	45.1	1.2	2.1
		-EPE	14	55	37.5	1.0	0.6
		+IPZ	14	55	37.0	1.3	1.5
	30	-EPE	13	21	06.9	0.9	1.0
		-EPN	13	21	06.4	1.0	1.0
		+IPZ	13	21	06.4	1.0	3.0
		+EPE	14	56	04.0	1.1	0.6
		+EPN	14	56	02.8	0.8	0.6
		+EPZ	14	59	03.0	1.0	0.5
		-EPE	23	21	51.8	1.4	2.3
		+EPN	23	21	51.8	1.5	1.3
		-IPZ	23	21	51.7	2.4	3.5