

Seismological Bulletin of Syowa Station, Antarctica,
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The present report describes the seismological data of 1977 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 meters above the mean sea level.

Seismological observations up to January 1977 were carried out by T. Haneda, members of the 17th Japanese Antarctic Research Expedition. For the succeeding period of January 1977 to January 1978, S. Otaki, members of the 18th 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 millimeters.

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.

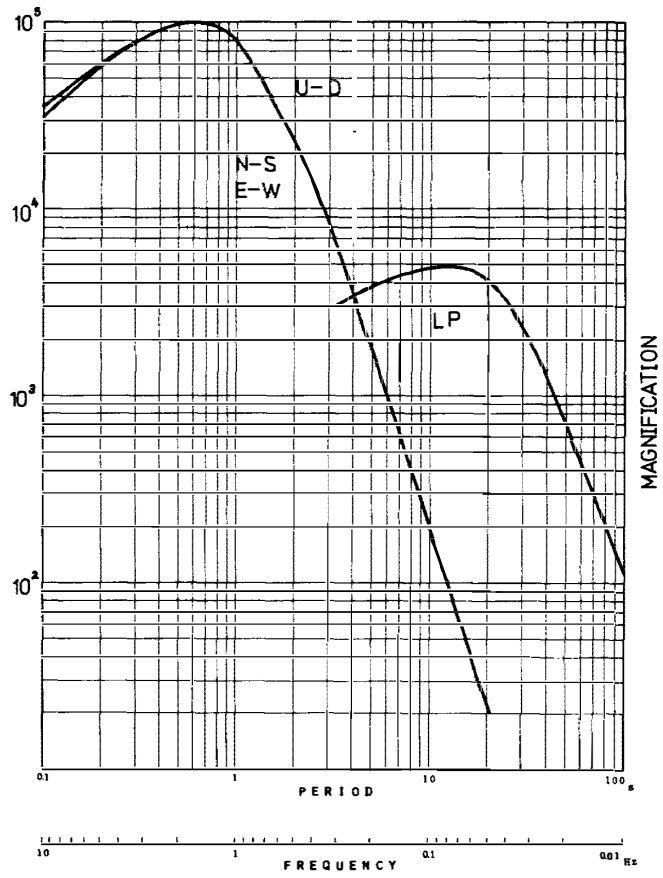


Fig. 1. Magnification curves of HES and long-period seismographs.

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JAN 01	+EPE	19	03	02.3	0.5	0.5	
	+EPN	19	03	02.0	1.0	1.2	
	EPZ	19	03	02.5			
	+EPE	19	14	22.0	1.0	0.6	
	-EPZ	19	14	21.9	0.9	1.1	
	LP+ESE	19	24	48.3	10.3	3.5	
	LP+ESN	19	24	50.6	9.4	4.5	
	LP-LRE	19	52	12.2	16.9	7.5	
	-IPE	20	47	27.5	0.9	2.5	
	+EPN	20	47	27.8	0.4	0.5	
	-IPZ	20	47	27.6	0.7	6.0	
	-EPE	23	33	46.3	1.6	1.9	
	-IPN	23	33	45.9	1.2	4.3	
	+IPZ	23	33	45.6	1.3	8.5	
	LP+LRE	23	52	16.9	16.9	3.0	
	02	+EPN	06	01	22.2	0.7	1.4
		-IPZ	06	01	22.2	1.0	3.0
LP EPN		10	07	22.5			
LP EPZ		10	07	22.5			
LP+ISE		10	17	09.4	14.1	11.0	
LP+ESN		10	17	13.1	11.3	2.0	
LP-ESSE		10	22	52.5	16.9	5.0	
LP-LRE		10	35	24.4	22.5	9.0	
LP-LRN		10	35	26.3	21.6	6.5	
LP-LRZ		10	35	28.1	20.6	4.0	
03		-EXN	06	57	42.0	0.7	0.7
	+EXZ	06	57	40.6	2.2	1.7	
02	+EPE	10	07	22.0	1.3	0.7	
	+EPZ	10	07	21.6	1.4	0.7	
03	-EPE	10	13	35.5	1.5	1.2	
	-EPN	10	13	35.2	0.9	0.5	
04	-EPZ	10	13	35.4	1.2	1.6	
	+EPE	05	56	43.9	1.0	0.6	
	+EPN	05	56	43.0	1.0	0.6	
	+EPZ	05	56	44.0	1.2	0.8	
	+EPE	08	33	19.7	1.0	1.0	
	-EPN	08	33	21.9	0.7	0.9	
	+EPZ	08	33	20.0	1.2	1.5	
+EPE	15	05	30.5	0.8	0.5		
+EPZ	15	05	30.3	1.1	1.1		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JAN 04	+EXE	23	32	03.0	1.0	1.0	
	+EXN	23	32	04.1	1.1	0.6	
05	-EXZ	23	32	04.6	1.1	1.0	
	+EPE	23	32	36.0	1.1	0.6	
	+EPN	23	32	34.8	0.8	0.6	
	+EPZ	23	32	35.0	0.8	0.3	
06	+EPE	04	42	09.3	1.0	1.0	
	+EPN	04	42	10.1	0.6	0.4	
	+EPZ	04	42	10.9	0.8	0.5	
	-EPE	06	24	49.0	1.3	1.0	
	+EPN	06	24	51.0	0.8	0.4	
	+IPZ	06	24	48.3	1.0	1.5	
	+EXE	06	28	26.0	2.0	2.4	
	+EXZ	06	28	21.3	1.5	2.5	
	LP+SKSE	06	35	28.1	15.0	8.0	
	LP-ISE	06	35	48.8	11.3	20.0	
	LP+ISN	06	35	48.8	10.3	9.5	
	LP+PSE	06	37	10.5	13.1	23.0	
	LP+LRE	07	02	14.1	23.4	118.0	
	LP+LRN	07	02	22.5	21.6	71.0	
07	+EXE	07	20	59.3	1.1	1.5	
	+EXN	07	20	58.8	1.0	0.9	
	+EXZ	07	20	59.2	1.1	1.5	
	+IPE	08	15	28.0	1.3	1.5	
	+EPN	08	15	28.8	0.7	0.5	
	+IPZ	08	15	28.1	1.7	5.0	
	-EPE	09	48	05.8	0.8	0.6	
	-IPN	09	48	05.1	0.2	1.5	
	+IPZ	09	48	05.4	0.1	1.0	
	-ISE	09	48	19.9	0.4	5.5	
	-ISN	09	48	19.7	0.4	6.1	
	-ISZ	09	48	20.0	0.4	3.5	
	-EPN	10	11	49.0	0.9	0.7	
	-EPZ	10	11	49.4	0.8	0.5	
	08	LP+LRZ	15	01	37.5	22.5	2.5
		+EPE	07	53	45.2	1.4	0.9
	08	-EPN	07	53	37.7	1.1	1.0
		+IPZ	07	53	45.6	2.2	3.0
LP EPZ		07	53	45.0			
LP+LRE		08	28	45.0	20.6	2.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JAN 08	LP+LRZ	08	28	26.3	22.5	5.0	
	+EPE	11	08	21.3	0.8	0.6	
	+EPN	11	08	21.8	1.1	0.5	
	-IPZ	11	08	21.9	1.0	1.5	
	-IPE	12	07	51.4	1.0	1.0	
	-EPN	12	07	51.9	1.2	0.6	
	-IPZ	12	07	51.5	1.0	2.0	
	LP+LRZ	13	14	05.6	24.4	2.0	
	09	+EPE	09	36	42.0	1.0	0.6
		-EPN	09	36	41.0	0.8	0.9
		-EPZ	09	36	42.8	0.5	0.6
		-IXN	09	37	13.2	1.3	1.0
	10	-IXZ	09	37	13.6	1.2	2.5
+IPE		09	43	25.7	0.9	1.0	
+IPN		09	43	25.4	0.7	1.0	
-IPZ		09	43	25.4	0.9	3.0	
-EPE		22	55	45.0	1.1	1.0	
-IPN		22	55	47.0	0.9	0.9	
-IPZ		22	55	46.7	1.0	1.0	
11	-IPE	23	30	30.5	1.7	2.3	
	+IPN	23	30	30.3	1.6	1.7	
	-IPZ	23	30	30.3	1.9	5.1	
	-IPE	07	13	31.4	1.4	2.0	
	+IPN	07	13	32.0	1.1	1.5	
	+IPZ	07	13	31.4	1.4	4.7	
	+EPE	08	08	33.7	1.1	0.8	
	+EPN	08	08	34.8	0.9	0.7	
	+EPZ	08	08	34.9	1.0	0.5	
	12	+EXE	09	06	57.0	1.1	6.1
-EXN		09	06	57.7	0.9	1.6	
+EXZ		09	06	57.5	0.6	2.5	
+IPE		23	47	17.7	1.6	2.5	
+EPN		23	47	16.8	1.0	0.5	
+IPZ		23	47	17.7	1.7	6.0	
LP PCPZ		23	48	01.9			
LP+ESE		23	57	15.0	11.3	1.5	
LP-ESN		23	57	15.0	7.5	2.0	
LP-ESZ		23	57	13.1	9.4	3.0	
13	LP+PSE	23	58	26.3	11.3	3.0	
	-EPE	14	13	03.0	1.4	1.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JAN 13	+EPN	14	13	01.5	1.0	0.4	
	+EPZ	14	13	01.7	1.3	1.6	
14	+EPE	03	08	04.2	1.6	1.0	
	+EPN	03	08	05.3	1.0	0.6	
	EPZ	03	08	05.0			
	-EPE	11	10	25.9	0.6	1.0	
	+EPN	11	10	24.2	0.8	0.3	
	-EPZ	11	10	24.3	0.6	0.5	
	+ESE	11	11	00.0	1.4	2.0	
	+ESN	11	11	00.0	1.0	0.5	
	+ESZ	11	10	59.8	0.4	1.1	
	-EPN	18	10	44.8	0.8	1.0	
	+IPZ	18	10	44.8	1.1	2.1	
	-EPE	22	39	52.8	1.4	1.0	
	+EPN	22	39	51.8	1.3	0.6	
15	+EPZ	22	39	50.8	0.9	0.6	
	+ESE	22	42	04.8	1.1	1.4	
	-ESN	22	42	06.2	0.6	0.7	
	+ESZ	22	42	06.1	1.5	2.0	
	+EPE	00	42	24.1	0.5	1.1	
	+EPN	00	42	24.8	0.4	0.5	
	-EPZ	00	42	23.9	0.8	0.6	
	+ESE	00	43	04.0	2.1	1.7	
	-ESN	00	43	03.0	1.3	1.6	
	+ESZ	00	43	04.0	1.1	1.1	
	LP+LRZ	02	16	37.5	17.8	1.5	
	+IPN	23	17	57.7	1.7	2.0	
	+IPZ	23	17	57.8	1.5	11.0	
16	LP+LRZ	23	25	45.0	20.6	3.0	
	+EPN	12	57	46.8	1.1	0.9	
	+EPZ	12	57	48.2	1.0	0.9	
	+EPN	15	53	50.1	1.0	0.9	
	-EPZ	15	53	50.0	1.0	1.5	
	+EPN	16	36	52.2	0.8	0.4	
	+EPZ	16	36	52.5	0.8	1.0	
	+EXN	16	40	26.5	0.5	1.2	
	+EXZ	16	40	26.2	0.4	2.0	
	+EXN	16	50	14.0	0.4	0.5	
	+EXZ	16	50	14.1	1.2	1.4	
	17	LP-LRZ	07	32	57.2	17.8	6.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JAN 17	LP+LRE	19	56	24.4	18.8	4.5
	LP+LRZ	19	56	31.9	17.8	16.0
	-IPE	21	38	41.9	1.0	1.7
	+EPN	21	38	41.3	0.9	0.7
	-IPZ	21	38	41.8	0.7	1.5
	LP+PCPE	21	39	21.6	7.5	5.5
	LP+PCPN	21	39	21.6	10.3	4.5
	LP-PCPZ	21	39	22.5	16.9	18.5
	-ESE	21	48	05.0	3.0	9.0
	+ISN	21	48	07.3	3.5	19.8
	-ESZ	21	48	05.0	4.4	16.1
	LP+ISE	21	48	05.6	10.3	42.0
	LP-ISN	21	48	09.4	7.5	13.0
	LP+ISZ	21	48	06.6	20.6	16.0
	LP-PPSE	21	49	33.8	11.3	16.5
	LP-PPSN	21	49	31.9	9.4	16.0
	LP+PPSZ	21	49	39.4	13.1	14.0
	LP+SSE	21	52	33.8	9.4	14.0
	LP-SSN	21	52	43.1	9.4	6.0
	LP-SSZ	21	52	45.0	15.9	10.5
	LP-LRZ	21	56	09.4	21.6	24.0
	+EPE	22	06	07.1	1.2	0.8
	+EPZ	22	06	07.1	1.4	3.6
	+EPE	22	25	38.1	1.3	2.8
	+EPN	22	25	39.8	1.0	0.7
	+EPZ	22	25	36.1	1.1	4.0
	+EPE	22	54	52.0	1.0	0.8
+EPN	22	54	51.8	0.7	0.8	
-EPZ	22	54	51.4	1.3	4.5	
18	-IPE	05	52	23.8	1.6	8.8
	+IPN	05	52	23.8	1.6	8.1
	-IPZ	05	52	23.8	1.8	22.9
	+EXE	05	52	33.1	0.9	2.9
	+EXN	05	52	34.7	1.2	3.9
	-EXZ	05	52	33.7	1.5	8.1
	LP-ESZ	06	01	24.4	7.5	4.0
	LP-PSZ	06	02	33.8	11.3	3.0
	LP+LRE	06	18	20.6	21.6	44.5
	LP-LRN	06	18	56.3	20.6	4.0
	LP+LRZ	06	18	35.6	20.6	8.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JAN 18	+IPE	22	54	44.4	1.0	1.3
	+IPN	22	54	44.9	0.9	1.8
19	+IPZ	22	54	44.3	1.1	3.1
	+EPZ	01	04	55.4	1.7	2.7
	-EXE	01	05	46.8	1.1	0.7
	-EXN	01	05	48.0	1.1	0.9
	+EXZ	01	05	47.5	2.0	2.1
	LP+LRZ	01	48	05.6	18.8	4.0
	+EPE	09	35	18.5	1.2	1.5
	-EPN	09	35	17.8	0.8	0.8
	-EPZ	09	35	18.9	0.7	0.7
	-EXE	09	35	35.1	1.2	2.2
	-EXN	09	35	33.2	1.1	1.0
20	-EXZ	09	35	35.2	1.2	1.5
	+EPE	14	07	16.3	1.6	1.5
	+EPN	14	07	16.3	1.1	0.8
	+EPZ	14	07	16.8	0.8	0.7
	+EXE	14	11	05.7	1.8	2.5
	-EXN	14	11	03.0	0.9	0.9
	+EXZ	14	11	02.2	1.1	1.5
	LP-ESZ	14	18	15.0	7.5	2.0
	LP-PSE	14	19	54.4	16.9	9.0
	LP+LRZ	14	42	01.9	22.5	6.0
	21	+EPZ	09	26	29.9	0.8
-EPN		02	39	05.2	1.2	1.0
22	+EPZ	02	39	05.8	1.1	0.6
	-ESE	02	44	15.8	1.0	1.5
	+ISN	02	44	17.0	1.1	3.0
	-ESZ	02	44	17.1	1.5	4.1
	-IPE	06	22	57.5	1.2	5.0
	+IPN	06	22	57.8	1.1	5.5
	-IPZ	06	22	57.0	0.7	2.2
	+ESE	06	32	29.0	1.0	1.0
	-ISN	06	32	28.0	1.3	1.1
	-ESZ	06	32	29.0	1.6	1.6
	+EXE	04	25	10.1	0.6	0.6
+EXN	04	25	11.0	0.7	0.5	
+EXZ	04	25	10.9	0.8	0.8	
-EXE	04	25	50.2	0.9	1.0	
+EXN	04	25	50.1	0.7	1.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	N	S			
JAN 22	+EXZ	04	25	51.6	0.8	1.9	
	+EPE	01	51	19.1	1.2	1.2	
23	+EPN	01	51	20.2	1.3	1.2	
	-EPZ	01	51	20.5	2.0	6.0	
24	-EPE	02	02	21.5	1.0	3.0	
	+EPN	02	02	21.2	0.9	1.9	
	+EPZ	02	02	21.2	1.1	3.9	
	LP+LRE	02	27	41.3	18.8	2.0	
	+EPE	09	49	49.1	0.8	0.5	
	+EPN	09	49	47.9	0.5	0.4	
	+EPZ	09	49	48.2	0.7	0.6	
	+EPZ	10	42	30.0	1.5	1.3	
	25	-IPE	01	01	28.6	1.3	1.4
		-EPN	01	01	28.1	1.2	1.0
26	+IPZ	01	01	27.4	1.4	5.2	
	LP-LRE	01	28	26.3	20.6	2.0	
	-EPE	08	27	33.8	0.9	1.1	
	+EPN	08	27	33.8	1.0	1.0	
	-EPZ	08	27	33.8	1.0	3.0	
	-ESE	08	28	37.7	1.1	1.1	
	+ESN	08	28	37.0	1.3	1.1	
	+ESZ	08	28	36.9	1.7	2.8	
	-EPN	10	44	23.0	1.0	0.9	
	+EPZ	10	44	23.0	0.7	0.5	
	+EPE	11	36	05.5	1.2	1.0	
	-EPN	11	36	06.0	0.6	0.5	
	+EPZ	11	36	05.1	0.8	0.4	
	27	-IPE	13	23	22.2	1.1	1.0
		+EPN	13	23	23.5	1.2	0.4
28	+IPZ	13	23	22.1	1.2	3.4	
	+EPE	05	03	33.8	1.2	0.6	
	-EPN	05	03	33.3	0.8	0.5	
	+EPZ	05	03	33.7	1.4	1.6	
	-EPE	14	12	49.4	1.4	1.7	
	+EPN	14	12	49.2	1.1	0.6	
	+IPZ	14	12	48.7	1.0	2.8	
	+IPE	18	13	35.8	1.3	2.2	
29	+IPN	18	13	35.2	1.2	1.0	
	+IPZ	18	13	34.8	1.4	2.0	
	LP+LRE	19	51	45.0	16.9	3.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JAN 29	+IPE	01	06	00.5	0.8	2.1	
	+EPN	01	06	01.4	0.8	2.4	
	+IPZ	01	06	00.7	1.3	4.2	
	+EXE	04	46	28.4	1.1	2.2	
	-EXN	04	46	27.2	0.8	1.0	
	+EXZ	04	46	31.9	1.0	0.8	
	-EPE	06	49	33.3	0.6	0.7	
	+EPN	06	49	34.0	1.0	0.8	
	-EPZ	06	49	32.0	0.8	0.7	
	+ESE	06	51	10.3	1.9	1.1	
	+ESZ	06	51	10.7	1.3	2.5	
	+IPZ	14	03	09.3	1.3	3.5	
	30	+EPN	00	21	12.2	1.2	0.5
		+EPZ	00	21	12.8	1.3	1.5
	FEB 01-02	LP-PPZ	00	22	52.5	9.4	3.0
NO RECORD							
03		-EPE	17	50	50.0	1.0	1.4
		+EPN	17	50	48.7	1.4	1.5
04		+EPZ	17	50	50.5	1.1	0.9
		+IPE	23	31	27.0	0.7	0.8
		-IPN	23	31	27.0	0.6	0.6
		-IPZ	23	31	27.0	1.1	4.0
		+EPE	01	17	57.9	0.5	0.8
		+EPZ	01	17	58.9	0.6	0.5
		+EPE	01	24	44.4	0.6	0.5
		-EPN	01	24	43.0	0.7	0.9
		+EPZ	01	24	44.0	0.8	1.1
		+IPE	07	57	01.1	0.6	22.0
05		IPN	07	57	01.1		
	IPZ	07	57	01.0			
	LP+EPZ	07	57	01.9	11.3	4.0	
	LP+EPPE	07	59	00.0	7.5	3.0	
	LP+EPNN	07	59	00.0	7.5	3.0	
	LP-IPPZ	07	59	00.0	7.5	7.0	
	LP-ISE	08	05	37.5	8.4	38.0	
	LP-ISN	08	05	37.5	9.4	59.0	
	LP+ESZ	08	05	37.5	9.4	6.5	
	LP-ISSE	08	09	07.5	11.3	35.0	
06	LP+ISSN	08	09	08.4	12.2	32.0	
	LP-ESSZ	08	09	07.5	15.0	7.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
FEB 04	LP-LRZ	08	25	13.1	20.6	5.0
	+EPE	23	00	43.9	1.0	0.9
05	+EPN	23	00	43.9	0.9	0.5
	+EPZ	23	00	43.9	1.2	1.9
	-IPE	03	03	43.0	1.3	3.9
	-IPN	03	03	43.0	1.4	5.5
	+IPZ	03	03	43.0	1.3	13.5
	LP+EPE	03	36	48.8	9.4	4.0
	LP-IPN	03	36	45.0	9.4	9.5
	LP+IPZ	03	36	45.0	10.3	14.0
	LP+IPPE	03	38	17.8	9.4	9.5
	LP+IPPN	03	38	17.8	10.3	20.0
	LP-IPPZ	03	38	17.8	10.3	27.0
	LP+ISE	03	42	45.0	13.1	12.0
	LP+ISN	03	42	45.9	15.9	23.0
	LP+ISSE	03	45	31.9	14.1	16.5
	LP+ISSN	03	45	33.8	13.1	15.0
	LP+ISSZ	03	45	33.8	15.0	37.0
	LP-LRE	03	50	52.5	22.5	93.0
	LP-LRN	03	50	50.6	22.5	63.0
	LP+LRZ	03	50	52.5	24.4	32.0
	-ISE	08	05	35.8	2.0	43.5
ISN	08	05	35.5			
+ISZ	08	05	36.0	3.0	15.5	
+EPE	09	39	33.1	0.8	0.7	
+EPN	09	39	33.5	0.9	0.8	
+EPZ	09	39	31.8	1.2	1.0	
+EPE	21	20	43.2	0.9	0.6	
+EPN	21	20	44.3	1.2	1.5	
-EPZ	21	20	42.4	0.7	0.6	
06	+EPE	03	21	52.4	1.2	2.5
	+EPN	03	21	52.2	1.1	1.7
	+EPZ	03	21	52.0	1.5	7.0
LP+LRZ	03	55	45.0	26.3	5.0	
06-09	NO RECORD					
09	-EPN	16	30	11.7	0.7	1.2
	-EPZ	16	30	11.1	0.7	2.2
10	LP+LRZ	01	42	28.1	18.8	4.0
	LP+LRZ	04	15	45.0	16.9	3.0
	LP-LRZ	08	40	24.4	22.5	4.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
FEB 10	-EPE	17	28	19.7	0.8	1.3	
	-EPN	17	28	20.0	0.9	1.7	
11	+EPZ	17	28	19.9	0.6	1.2	
	+EPE	22	46	41.5	2.0	7.9	
	-EPN	22	46	41.0	1.6	2.1	
	+EPZ	22	46	39.0	1.2	1.5	
	-ESE	22	51	30.8	5.0	14.2	
	-ESN	22	51	28.3	3.0	6.9	
	+ESZ	22	51	30.4	4.0	15.5	
	LP-ISE	22	51	20.6	11.3	15.0	
	LP-ISN	22	51	18.8	11.3	18.5	
	LP+ISZ	22	51	30.0	7.5	13.0	
	LP-ISSE	22	52	20.6	11.3	16.0	
	LP+ISSN	22	52	18.8	13.1	20.0	
	LP+LQN	22	53	41.3	20.6	46.0	
	LP+LQZ	22	53	41.3	25.3	21.5	
	LP+LRE	22	54	16.9	15.0	16.5	
	LP+LRZ	22	54	35.6	16.9	49.5	
	12	LP+LRZ	21	30	15.0	18.8	4.0
	13	LP-LRZ	03	16	58.1	16.9	2.5
	13-15	-EPE	13	19	42.1	1.8	6.5
		+IPZ	13	19	41.6	1.3	8.0
16	NO RECORD						
	-EPE	10	53	16.0	1.0	0.6	
17	+IPN	10	53	15.0	2.0	8.0	
	+IPZ	10	53	15.0	1.6	13.0	
	-EXE	10	59	19.1	0.9	1.3	
	+EXN	10	59	18.5	1.1	0.6	
	-EXE	07	14	14.0	1.2	2.0	
	-EXN	07	14	13.0	0.8	0.6	
	+EXZ	07	14	13.0	1.0	0.7	
	+EPE	12	01	51.4	1.0	0.5	
	+EPN	12	01	50.9	1.0	0.8	
	+EPZ	12	01	49.1	0.9	1.1	
	+EPE	20	02	31.2	0.9	1.4	
	-EPN	20	02	31.2	1.1	1.0	
	+EPZ	20	02	31.6	1.0	1.5	
	LP+EXZ	20	44	15.0	18.8	3.5	
	-EPE	21	10	22.9	1.3	1.4	
	+EPN	21	10	23.3	1.4	0.9	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
FEB 17	+IPZ	21	10	24.0	2.0	11.5
	+ESE	21	12	02.0	0.9	1.5
	+ESZ	21	12	03.0	1.6	2.6
18	+EPE	05	21	47.4	1.2	2.6
	+EPN	05	21	48.3	0.9	0.9
	+EPZ	05	21	46.3	1.2	3.0
	-EPE	18	07	21.9	1.4	2.0
	-IPN	18	07	21.1	0.8	1.4
	+IPZ	18	07	21.2	0.8	2.5
	19	+EPE	07	20	13.3	2.4
+EPZ		07	20	14.1	2.0	5.5
LP+EPE		08	01	29.1	6.6	3.0
LP+EPN		08	01	28.1	8.4	2.5
LP+EPZ		08	01	29.1	6.6	4.0
LP+ISE		08	05	52.5	11.3	5.0
LP+ESN		08	05	54.4	13.1	3.5
LP+ESZ		08	05	54.4	12.2	4.0
LP+SSN		08	07	58.1	15.0	8.0
LP+LRE		08	10	33.8	16.9	14.0
LP+LRN		08	10	28.1	18.8	15.0
LP+LRZ		08	10	31.9	20.6	29.0
+EXE		22	53	59.7	1.2	3.5
+EXN		22	53	58.3	0.7	0.6
-IPZ		22	53	55.8	1.3	4.0
20-24	EXTREME MICROSEISMIC ACTIVITY					
25	-IPE	01	31	51.3	1.9	5.0
	+IPN	01	31	51.5	1.8	3.4
	+IPZ	01	31	51.0	1.7	6.0
	-EXN	01	42	36.0	1.1	1.5
	+EXZ	01	42	36.0	2.2	4.4
	LP-LRE	02	10	39.4	18.8	5.5
	LP-LRN	02	10	35.6	19.7	4.0
LP+LRZ	02	10	35.6	20.6	13.0	
25-27	NO RECORD					
28	-EPE	02	04	02.7	0.9	1.5
	-EPN	02	04	02.2	1.0	0.6
	-EPZ	02	04	02.5	1.0	2.0
	+EPE	05	19	32.1	1.1	1.1
	-EPN	05	19	33.0	1.0	0.6
	+EPZ	05	19	33.0	1.1	0.7

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
FEB 28	+EPN	17	47	37.4	1.3	1.5	
	+EPZ	17	47	36.8	0.8	0.5	
MAR 02	+EPE	06	57	10.5	0.8	1.6	
	+EPN	06	57	10.5	0.8	1.5	
	-EPZ	06	57	11.0	0.8	1.5	
	-ESE	06	58	16.0	1.1	2.7	
	-ESN	06	58	15.0	0.6	1.5	
	+ESZ	06	58	14.5	1.6	3.5	
	LP+EPE	10	17	11.3	10.3	4.5	
	02-04	EXTREME MICROSEISMIC ACTIVITY					
	04	LP-EPN	19	36	48.8	15.9	5.0
		LP-IPZ	19	36	50.6	15.9	15.0
06	LP-IPPE	19	41	35.6	15.0	19.0	
	LP+IPPN	19	41	35.6	16.9	38.0	
	LP+IPPZ	19	41	35.6	15.0	84.5	
	LP+IPSE	19	51	26.3	15.9	37.5	
	LP+IPSN	19	51	22.5	16.9	73.0	
	LP-IPSZ	19	51	26.3	18.8	59.5	
	LP-ISSE	19	58	13.1	20.6	37.0	
	LP-ISSN	19	58	13.1	17.8	74.0	
	LP+ISSZ	19	58	13.1	20.6	47.0	
	-EPE	12	26	24.2	0.8	3.0	
	+EPN	12	26	24.0	0.8	1.5	
	+EPZ	12	26	23.9	0.5	1.7	
06-08	-EXE	12	26	44.3	0.8	3.2	
	+EXN	12	26	45.2	1.2	4.5	
	+EXZ	12	26	43.8	1.4	3.2	
	LP+LRN	13	31	39.4	19.7	3.0	
	08	EXTREME MICROSEISMIC ACTIVITY					
	+EPE	23	29	41.0	0.8	0.5	
09	+EPN	23	29	39.1	1.2	1.8	
	-EPZ	23	29	40.0	1.4	3.0	
	+EPE	14	48	27.0	1.2	1.1	
10	+EPN	14	48	27.0	1.1	2.6	
	+EPZ	14	48	26.1	2.0	18.0	
	LP+LRE	23	55	31.9	22.5	5.0	
	LP+LRN	23	55	37.5	28.1	10.5	
10-16	-EPN	12	41	01.9	1.2	3.5	
	+EPZ	12	41	01.0	1.5	1.5	
10-16	EXTREME MICROSEISMIC ACTIVITY						

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S					H	M	S		
MAR 17	-EPE	04	18	54.4	0.6	2.0	APR 02	IPZ	07	28	27.7	1.4	6.5
	-EPN	04	18	54.0	0.5	0.9		+IPN	07	28	28.0		
18	EPZ	04	18	54.8			+IPZ	07	28	26.3	1.4	7.0	
	LP EPN	21	57	46.9			LP-PPE	07	32	16.9	16.9	14.0	
	LP+EPZ	21	57	46.9	18.8	13.0	LP-PPN	07	32	18.8	19.7	19.5	
19	LP+LRZ	22	31	50.6	22.5	44.0	LP+PPPE	07	34	13.1	14.1	12.0	
	LP+LRZ	20	32	22.5	20.6	12.0	LP-PPPN	07	34	09.4	15.0	20.5	
20	+EPE	00	04	18.0	0.8	4.0	LP+PSE	07	39	07.5	14.1	37.0	
	+EPN	00	04	16.5	0.8	1.4	LP-ISN	07	39	05.6	14.1	44.0	
22	+EPE	20	12	46.5	0.9	3.4	+EPE	11	53	19.1	1.8	1.2	
	LP-EPN	22	05	45.0	24.4	37.0	+EPN	11	53	18.5	0.6	0.8	
	LP+EPZ	22	05	45.0	23.4	44.0	-EPZ	11	53	19.0	1.3	2.3	
	LP-PPN	22	07	16.9	20.6	58.0	-EPE	15	29	10.7	1.0	2.0	
	LP+PPZ	22	07	13.1	22.5	82.0	+EPN	15	29	11.0	0.8	1.0	
	LP+PPPZ	22	10	13.1	18.8	27.0	+EPZ	15	29	11.5	1.0	1.6	
	LP+PPPZ	22	10	13.1	18.8	43.0	+EPN	19	27	26.1	0.5	0.3	
	LP-ESN	22	15	57.1	16.9	21.0	+EPZ	19	27	25.5	0.7	0.8	
23	LP+ESZ	22	15	56.3	18.8	39.0	+EPN	12	35	22.8	0.5	0.9	
	LP+LRE	18	02	39.4	18.8	6.5	+EPZ	12	35	22.6	0.6	1.0	
	LP-LRN	18	02	20.6	20.6	10.5	+EPN	20	35	29.0	0.6	1.5	
	LP-LRZ	18	02	35.6	20.6	21.0	+EPZ	20	35	29.8	0.9	1.3	
23-25	NO RECORD						04	IPZ	05	03	49.0		
25	+EPZ	17	43	30.7	0.5	1.3	+IPZ	05	03	48.0	1.1	1.8	
26	LP-LRE	06	12	56.3	17.8	4.0	-EPE	18	05	26.0	1.0	1.0	
	LP+LRN	06	12	54.4	16.9	3.0	+IPZ	18	05	24.0	1.3	2.6	
	LP+LRZ	06	12	50.6	17.8	11.5	LP+LRE	18	45	11.3	15.9	4.0	
	+EPZ	16	27	23.5	1.0	4.0	+EPE	22	03	06.9	1.0	0.9	
27-29	EXTREME MICROSEISMIC ACTIVITY						05	-EPN	22	03	07.0	0.8	0.6
30	+EPN	13	18	16.9	1.0	3.2		+EPZ	22	03	06.8	0.7	1.2
	EPZ	13	18	18.5			-EPE	00	42	10.9	1.2	2.1	
	-EPN	04	29	26.4	0.5	9.0	-EPN	00	42	11.0	1.0	1.0	
	EPE	19	01	29.0			+EPZ	00	42	10.3	1.8	2.9	
	+EPN	19	01	28.6	0.5	1.0	+EPE	03	00	30.8	0.6	1.0	
APR 01	-EPE	04	57	24.3	0.3	1.0	+EPN	03	00	30.0	0.8	0.6	
	-EPN	04	57	25.0	0.5	1.0	+EPE	06	31	39.5	1.0	1.1	
	-EPZ	04	57	26.0	0.8	1.2	+IPN	06	31	39.0	0.7	0.6	
	+EPN	22	28	05.8	0.4	1.2	-IPZ	06	31	39.0	1.0	2.3	
	-EPZ	22	28	07.1	0.7	2.4	LP+LRE	14	32	52.5	15.0	3.5	
	+EPE	22	43	58.9	0.7	1.6	LP+LRN	14	32	58.1	18.8	5.0	
	-EPN	22	43	59.0	0.3	1.0	LP-LRZ	14	32	55.3	18.8	14.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
APR 07	+EPN	02	48	52.3	0.3	2.0
	-EPZ	02	48	52.1	1.0	3.5
07-08	EXTREME MICROSEISMIC ACTIVITY					
08	+EPE	23	22	27.8	1.0	1.8
	+IPN	23	22	28.5	1.1	3.5
	+EPZ	23	22	28.8	0.6	1.1
09	+IPE	04	16	03.6	1.3	10.0
	+EPN	04	16	01.3	1.8	3.5
	+EPZ	04	16	02.7	2.3	7.0
	EPE	06	28	37.6		
	-EPN	06	28	36.0	0.6	1.0
10	+EPN	03	04	48.0	0.7	1.1
	+EPZ	03	04	46.0	0.5	0.6
	+EPN	03	06	48.8	0.8	2.4
	+EPZ	03	06	48.1	1.0	1.5
	-EPN	03	31	21.0	0.7	1.1
	+EPZ	03	31	20.9	0.5	0.8
	LP+LRZ	22	05	33.8	19.7	5.0
10-11	NO RECORD					
12	-EPE	06	56	31.9	0.8	2.0
	+EPZ	06	56	31.8	0.6	2.0
13	+EPN	22	01	30.4	0.7	1.0
14-15	NO RECORD					
15	-EPE	17	24	39.0	1.0	4.1
	+IPN	17	24	40.1	1.2	7.0
16	+EPE	06	38	51.1	0.7	3.5
	+EPN	06	38	50.3	1.0	2.5
16-18	NO RECORD					
19	+IPE	04	53	11.2	0.4	0.9
	+IPN	04	53	11.0	0.8	3.4
	EPE	11	16	03.1		
	+EPN	11	16	03.0	0.4	1.2
	+EPN	17	31	07.9	0.5	0.7
20	LP+LRE	00	03	30.0	18.8	20.5
	LP+LRZ	00	03	37.5	18.8	48.0
	+EPN	04	13	30.5	1.8	4.9
	-EPN	06	08	16.5	1.1	1.5
	+EPN	22	02	36.0	0.8	1.0
	EPN	23	26	15.5		
	LP-IPZ	23	26	18.8	15.0	13.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
APR 20	LP-ISE	23	37	18.8	12.2	59.5
	LP+ESZ	23	37	18.8	10.3	15.0
	+EPN	23	55	55.9	1.4	1.2
21	-ESN	00	08	48.8	3.9	12.0
	+EPN	03	28	02.0	0.9	0.7
	+IPN	04	37	12.0	1.1	1.0
	-ESN	04	47	42.3	2.1	2.8
	LP-LRE	05	10	13.1	24.4	62.0
	LP-LRZ	05	10	09.4	31.9	90.5
	+EPN	07	31	53.5	1.2	0.8
	-EPN	09	58	40.9	0.9	1.1
	-EPN	22	15	11.0	1.1	0.8
22	-EPN	03	01	37.0	0.9	0.8
	LP-LRZ	04	00	52.5	19.7	6.5
	+EPN	05	38	44.9	1.0	0.6
	+IXN	13	22	58.8	1.1	2.6
	+IXN	13	23	51.5	1.1	1.9
	+IXN	13	24	17.0	1.4	3.0
	EPN	13	25	22.8		
	-EXN	23	07	15.1	1.0	1.0
	+EXZ	23	07	15.4	1.4	2.0
	-EXN	23	10	55.0	1.1	2.1
	+EXZ	23	10	55.2	1.0	0.8
24	-EPN	02	31	11.3	1.0	0.7
	-EPZ	02	31	09.9	1.0	1.6
	+EPN	05	19	47.8	0.3	0.3
	+EPZ	05	19	46.8	0.9	0.9
	+EPN	07	32	35.4	1.0	1.3
	+EPZ	07	32	34.2	1.0	1.0
	+EPN	08	06	26.5	0.7	0.4
	+EPZ	08	06	26.8	0.8	0.3
	+EPN	10	21	15.0	0.8	0.8
	+EPZ	10	21	15.0	0.6	0.6
	EPN	20	58	58.3		
	+EPZ	20	58	57.4	1.6	3.0
	+EPN	23	25	53.5	0.8	0.6
	+EPZ	23	25	52.8	1.0	1.7
26	+EPN	04	35	21.0	0.9	1.1
	+EPN	11	46	24.3	0.8	1.1
27	+EPN	05	11	14.9	0.4	2.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
APR 27-28	NO RECORD					
29	+EPN	12	55	14.5	0.8	1.0
	+EPZ	12	55	14.4	1.2	1.8
	+EPN	12	58	36.0	0.3	0.5
	-EPZ	12	58	36.3	0.5	1.5
	+IPZ	13	42	52.5	1.0	3.7
30	+EPZ	16	34	09.9	0.5	1.1
MAY 01	+EPN	17	34	44.0	1.1	2.0
	+EPZ	17	34	43.4	1.8	3.2
02	+EPN	10	05	31.9	0.6	3.8
	+EPZ	10	05	31.9	0.7	5.7
03	+EPN	15	21	26.0	1.1	2.3
	-EPZ	15	21	28.0	1.1	3.0
	+EPN	18	45	55.1	1.0	1.2
	+EPZ	18	45	55.0	1.2	1.4
04	+EPN	07	49	54.0	0.7	1.0
	+EPZ	07	49	54.7	1.0	1.0
	-EPN	13	20	58.3	0.7	1.0
	+EPZ	13	20	58.6	1.1	3.5
	+EPN	20	30	00.8	0.8	2.3
	+EPZ	20	30	01.8	0.8	4.0
05-08	EXTREME MICROSEISMIC ACTIVITY					
09	-EPN	02	00	53.8	1.0	2.2
	-EPZ	02	00	55.0	0.6	2.0
	EPN	02	10	48.7		
	+EPZ	02	10	49.0	0.9	0.9
	+EXN	02	13	45.0	1.1	1.0
	-EXZ	02	13	47.4	1.4	1.1
	-EPN	03	11	14.9	1.4	2.5
	+EPZ	03	11	14.9	1.8	2.1
	+EPZ	10	54	11.1	1.1	1.6
	LP-LRZ	11	02	07.5	17.8	4.0
	+IPZ	12	30	47.5	0.9	2.5
10	+EPZ	22	41	23.0	0.7	1.6
11	+EPN	01	39	27.9	1.4	1.8
	+EPZ	01	39	28.6	1.0	0.9
	+EPN	02	52	20.6	0.7	0.7
	+EPZ	02	52	20.0	0.9	1.1
	LP-LRZ	03	18	13.1	18.8	4.0
	+IPZ	06	35	23.0	0.9	2.3

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
MAY 11	+EPN	11	47	06.4	0.7	1.1
	+EPZ	11	47	06.8	1.1	1.9
	+IPZ	18	22	59.9	1.0	2.0
12	LP+LRN	02	09	18.8	20.6	4.0
	+EPN	02	22	11.9	1.1	0.8
	+EPZ	02	22	11.3	1.1	0.9
	-EPZ	11	36	47.7	0.8	1.0
	-EPZ	12	34	35.0	1.4	2.0
	LP+LRN	13	08	37.8	20.6	2.5
	LP-LRZ	13	08	37.5	20.6	4.0
	+EPZ	14	53	03.5	0.3	0.5
	+EPN	18	12	10.0	1.1	0.9
	+EPZ	18	12	10.5	1.0	1.3
	+IPN	18	52	16.0	1.2	4.0
	+IPZ	18	52	15.1	1.2	7.0
	-ESN	18	55	53.0	1.1	1.1
	+ISZ	18	55	54.6	1.6	3.5
	+EPN	21	34	39.0	1.0	0.6
	+EPZ	21	34	39.5	0.7	0.7
	-IPN	21	56	54.0	1.0	2.3
	-IPZ	21	56	53.3	1.0	6.0
13	+IPN	11	31	32.1	0.6	0.6
	+IPZ	11	31	31.1	0.6	1.6
	+ESN	11	33	02.0	0.6	0.6
	+ESZ	11	33	01.1	2.3	8.0
14	EPN	05	23	24.1		
	-IPZ	05	23	24.5	0.3	1.1
14-15	EXTREME MICROSEISMIC ACTIVITY					
15	+EPN	23	25	50.9	1.5	4.4
	-EPZ	23	25	51.0	1.2	3.5
	-ESN	23	34	29.8	1.4	3.6
16	LP-LRZ	12	02	45.0	18.8	4.0
17	+EPN	07	46	02.1	0.6	0.5
	-EPZ	07	46	03.5	1.2	2.0
	+EPN	17	32	58.2	0.9	2.5
	+EPZ	17	32	56.4	1.1	1.6
	EPN	19	54	07.0		
	-EPZ	19	54	07.9	0.3	0.6
18	-EPN	17	21	30.0	0.8	0.5
	+EPZ	17	21	30.7	1.3	2.1

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
MAY 18	+EPN	20	19	29.0	0.6	0.7
	+EPZ	20	19	28.8	1.0	1.0
19	-EPN	06	21	28.0	0.5	0.8
	+EPZ	06	21	25.4	1.0	0.4
	EPN	06	36	10.5		
	+EPZ	06	36	11.1	0.4	0.5
	+EPZ	07	59	06.4	0.9	0.5
	EPN	08	03	18.0		
	+EPZ	08	03	18.7	0.3	0.4
	+EPE	17	08	45.0	0.5	0.6
	EPN	17	08	45.0		
	+EPZ	17	08	44.3	1.0	1.9
	LP+EXN	17	17	56.3	15.0	6.5
	LP+EXZ	17	17	54.4	18.8	4.5
	-EPE	17	41	06.5	2.2	3.0
	-EPZ	17	41	05.5	0.8	0.6
	+EPE	18	34	15.0	0.6	0.7
	EPN	18	34	15.0		
20	+EPZ	18	34	15.5	1.2	1.1
	+EPE	19	00	46.1	1.1	1.0
	+EPN	19	00	46.0	1.3	1.5
	+IPZ	19	00	45.2	0.6	1.4
	+EPZ	19	18	34.2	1.1	1.0
	+IPE	21	17	22.3	1.3	2.0
	-EPN	21	17	22.7	1.2	1.2
	+IPZ	21	17	22.4	1.3	5.2
	+EXE	21	19	20.8	0.8	0.6
	-IXZ	21	19	20.8	1.0	3.2
	-IPE	22	58	04.0	1.6	5.6
	+EPN	22	58	04.8	1.6	1.6
	+IPZ	22	58	04.0	1.5	10.0
	+ISE	23	03	06.1	1.9	4.1
	-ESN	23	03	06.0	1.4	2.1
	-ESZ	23	03	04.5	2.0	2.5
21	LP+LRN	23	28	16.9	21.6	3.0
	LP+LRZ	23	28	24.4	23.4	7.0
	LP+LRE	14	52	30.0	18.8	6.0
	+EPE	21	33	03.0	1.0	1.0
	-EPN	21	33	03.1	1.1	1.5
	-EPZ	21	33	02.9	1.0	1.2

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
MAY 21	+EPE	21	53	04.1	1.1	0.9
	+EPZ	21	53	05.0	0.6	0.5
22	+EPN	22	33	42.0	0.7	0.6
	+EPZ	22	33	41.0	0.8	0.8
	-EPN	19	45	35.0	1.0	1.0
	-EPZ	19	45	35.3	1.0	1.2
	+EPE	23	40	35.0	1.2	0.5
	-EPZ	23	40	34.2	1.0	1.3
	-IPE	23	49	00.8	1.1	7.0
	-IPN	23	49	00.7	1.5	3.0
	+IPZ	23	49	01.0	1.0	2.5
	23	-EPE	03	56	57.8	1.0
-EPN		03	56	57.3	0.9	1.0
+EPZ		03	56	57.4	1.2	1.9
+EPE		22	08	02.0	0.8	0.7
+EPN		22	08	02.0	1.1	0.7
-EPZ		22	08	01.3	1.1	1.7
24	-EPE	07	11	41.0	1.0	2.8
	+EPN	07	11	41.6	1.1	1.1
	+EPZ	07	11	40.9	1.2	1.4
	+EPE	08	06	16.7	1.3	1.3
	+EPZ	08	06	16.0	2.0	2.0
	+EPE	10	41	08.8	1.3	0.7
	+EPZ	10	41	07.1	1.2	1.0
	-EPE	20	29	51.5	0.6	0.6
25	-EPN	20	29	51.0	1.2	1.3
	+EPZ	20	29	51.5	1.2	1.6
	+IPE	12	21	56.7	1.5	4.4
	+IPN	12	21	56.0	1.1	3.0
	-IPZ	12	21	56.3	1.2	11.5
	+IPE	12	24	05.0	1.1	1.0
	+IPN	12	24	06.0	1.0	1.0
	+IPZ	12	24	05.0	1.5	3.6
	-IPE	15	08	03.0	1.1	5.5
	+EPN	15	08	03.9	1.4	2.4
	-IPZ	15	08	03.0	2.1	17.7
	+EPE	17	19	39.2	1.2	1.0
27	+IPN	17	19	39.0	1.0	2.1
	+IPZ	17	19	38.9	1.2	7.0
	+EPE	11	23	14.1	1.0	0.3

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
MAY 27	+EPN	11	23	14.9	0.8	0.6	
	+EPZ	11	23	16.1	1.6	1.9	
28	EPE	12	29	28.9			
	-IPZ	12	29	28.8	0.8	2.0	
	+IPE	06	04	19.9	2.1	8.2	
	-EPN	06	04	21.0	1.0	0.7	
	+IPZ	06	04	19.6	2.0	23.1	
	-IPE	15	18	10.1	1.0	1.5	
	-IPN	15	18	10.0	1.0	1.9	
	+IPZ	15	18	09.5	1.1	3.5	
	+ESE	15	19	45.5	1.0	1.0	
	-ESN	15	19	47.6	1.7	2.6	
	-ESZ	15	19	47.2	1.2	3.4	
	29	+IPE	03	15	55.0	1.1	0.7
		+IPZ	03	15	54.3	1.0	3.5
		+IPE	03	31	57.0	1.2	1.9
-EPN		03	31	56.9	1.2	1.8	
+IPZ		03	31	56.0	1.0	1.5	
+EPE		19	00	31.9	0.7	0.6	
+EPN		19	00	32.0	1.0	1.1	
-EPZ		19	00	30.0	0.8	0.6	
30		+EXE	07	13	11.0	2.2	1.6
		+EXN	07	13	14.3	1.3	0.9
	+EXZ	07	13	13.7	2.3	2.6	
	-EPN	15	36	05.5	0.8	0.6	
	+IPZ	15	36	05.0	1.2	1.1	
	+EXE	15	36	29.7	1.7	0.6	
	+EXN	15	36	30.2	1.2	0.7	
	-EXZ	15	36	28.9	2.2	3.5	
	+EPE	18	16	47.4	1.0	1.5	
	-EPN	18	16	48.4	0.8	1.0	
31	+EPZ	18	16	48.8	0.6	1.1	
	+EPE	05	55	30.1	0.5	1.0	
	-EPN	05	55	30.0	0.7	1.1	
	+EPZ	05	55	30.0	1.0	2.2	
	+EPE	06	32	48.6	0.9	0.5	
	+EPN	06	32	50.0	1.1	0.8	
	+EPZ	06	32	48.0	0.8	0.4	
	EPN	15	00	49.0			
	+IPZ	15	00	49.0	1.6	5.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
MAY 31	EPE	19	02	03.0			
	EPN	19	02	04.0			
	+IPZ	19	02	03.6	0.8	4.0	
JUN 01	+EPN	20	34	47.1	0.8	1.3	
	+EPZ	20	34	47.0	1.2	3.0	
	02	+EPN	08	43	39.0	0.9	0.6
		+EPZ	08	43	40.4	0.7	1.1
		+EPZ	17	02	35.4	1.0	1.7
	03	+EPZ	20	25	00.9	1.0	2.0
		+EPN	02	37	16.0	1.1	0.4
		+EPZ	02	37	16.6	1.2	1.1
		-EPZ	02	49	05.0	1.1	1.0
		+EPZ	06	50	09.5	1.2	2.0
04	+EPE	15	30	17.0	2.0	1.6	
	+EPN	15	30	18.0	1.8	0.5	
	+IPZ	15	30	16.7	2.5	2.8	
	-EPN	08	17	39.9	1.0	0.6	
	-EPZ	08	17	40.2	1.6	2.0	
	05	+EPE	02	09	01.1	0.6	0.3
		-IPN	02	09	01.0	0.9	1.0
	06	+IPZ	02	09	01.0	1.0	2.2
		+IPE	02	57	45.0	1.0	2.0
		+IPN	02	57	44.9	1.0	1.5
+IPZ		02	57	44.0	2.0	2.4	
LP+LRZ		05	40	07.5	20.6	15.0	
-EPN		15	14	47.8	1.1	0.5	
+EPZ		15	14	46.1	1.2	0.9	
EPE		17	19	15.6			
-EPN		17	19	16.5	0.7	0.4	
+EPZ		17	19	15.9	0.5	0.6	
06	+IPE	23	33	02.3	1.3	1.3	
	+IPN	23	33	02.1	0.9	1.0	
	-IPZ	23	33	02.0	1.6	2.5	
	LP+ESE	23	38	41.3	9.4	2.5	
	LP+ESN	23	38	41.3	9.4	2.5	
	+EPZ	01	20	56.4	1.3	1.1	
	LP+LRE	01	31	18.8	46.9	3.0	
	LP-LRN	01	31	18.8	15.0	4.0	
	LP+LRZ	01	31	15.0	18.8	4.0	
	+IPE	01	36	30.5	1.1	0.6	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUN 06	+IPN	01	36	31.9	1.0	0.6	
	+IPZ	01	36	31.0	0.4	1.1	
	LP-LRE	02	56	37.5	15.0	2.0	
	LP+LRN	02	56	24.4	15.0	3.0	
	LP+LRZ	02	56	43.1	15.0	3.0	
	-IPE	12	58	38.0	1.5	1.5	
	+EPN	12	58	37.7	1.2	1.4	
	+IPZ	12	58	37.0	1.8	4.0	
	-EPZ	13	16	58.3	1.0	1.2	
	LP+LRN	23	45	08.4	15.9	5.0	
	LP+LRZ	23	45	06.6	19.7	7.5	
	07	+IPE	08	17	41.2	1.3	1.4
		+IPN	08	17	41.9	1.1	1.5
		+IPZ	08	17	41.3	1.8	4.7
-IPE		13	42	15.0	0.7	1.4	
+IPN		13	42	15.2	0.7	0.8	
+IPZ		13	42	15.0	0.6	2.7	
+EPE		23	08	57.1	1.8	1.6	
+IPN		23	08	58.0	0.9	0.9	
+IPZ		23	08	58.1	1.0	0.9	
08		+IPE	00	12	38.0	1.0	1.5
	-EPN	00	12	36.9	0.5	0.5	
	+IPZ	00	12	38.2	1.0	2.0	
	+IPE	12	00	04.0	1.3	2.0	
	+IPN	12	00	04.2	0.6	1.5	
	-EPZ	12	00	06.0	1.0	2.5	
	+IPE	13	36	45.1	1.1	4.5	
	-IPN	13	36	45.0	1.0	4.2	
	-IPZ	13	36	45.0	1.4	6.0	
	+EPE	14	17	51.9	1.3	1.0	
	-EPZ	14	17	52.4	1.2	2.5	
	+IPE	21	29	02.2	1.4	5.0	
	+EPN	21	29	03.5	1.2	0.6	
	+IPZ	21	29	02.1	1.3	9.7	
	09	-EPE	16	49	12.2	1.2	1.0
		+EPZ	16	49	11.4	0.6	1.2
+IPE		17	18	13.0	0.9	1.7	
+IPN		17	18	13.0	0.7	0.5	
+IPZ		17	18	13.3	0.7	1.8	
10	+EPN	02	47	09.2	0.3	0.3	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUN 10	+EPZ	02	47	07.3	0.3	0.4	
	+EPE	03	36	05.3	0.3	0.3	
	+EPN	03	36	04.0	1.2	0.8	
	-EPZ	03	36	03.5	0.6	1.5	
	-EPN	04	44	02.3	1.5	1.4	
	+EPZ	04	44	02.9	1.0	1.0	
	+EPE	08	36	03.9	1.0	0.9	
	+IPZ	08	36	03.7	1.0	2.0	
	+EXE	15	00	52.0	1.1	0.9	
	+IPZ	15	00	53.1	1.0	2.3	
	+EXE	18	13	55.5	0.9	0.6	
	+EXN	18	13	55.9	0.9	0.5	
	+EXZ	18	13	56.0	0.7	0.4	
	-EPE	23	56	18.1	0.7	1.1	
12	-EPN	23	56	18.8	0.6	0.4	
	+IPZ	23	56	17.0	0.8	1.1	
	+EPE	00	21	58.3	1.0	1.1	
	+EPN	00	21	58.3	1.1	0.8	
	+EPZ	00	21	57.8	2.0	1.6	
	EPE	18	42	05.2			
	+EPN	18	42	04.0	0.7	0.6	
	-EPZ	18	42	06.0	0.8	1.0	
	13	-EPE	08	13	43.4	1.0	0.6
		+IPZ	08	13	43.0	1.0	1.5
+EXE		10	21	41.0	1.7	2.3	
-EXN		10	21	41.2	1.5	2.0	
+EXZ		10	21	41.3	1.7	7.1	
+EPE		20	38	53.0	0.9	1.0	
+EPN		20	38	53.4	1.0	0.6	
+EPZ		20	38	53.8	0.4	1.0	
+EPN		23	32	06.2	0.9	0.3	
+EPZ		23	32	07.5	1.2	1.1	
14	-EPE	08	24	06.2	1.8	2.0	
	+EPZ	08	24	08.5	1.0	2.0	
	+IPE	21	50	10.0	0.9	1.2	
	+IPN	21	50	11.0	1.0	1.0	
	+IPZ	21	50	10.2	0.9	2.4	
	+EPE	22	32	02.5	0.8	1.2	
	-EPN	22	32	02.8	0.4	0.6	
	+EPZ	22	32	03.1	0.6	1.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUN 15	+EPE	15	15	47.1	0.5	0.8
	+EPN	15	15	47.9	1.0	1.2
16	+EPZ	15	15	47.8	0.9	2.0
	+IPE	22	53	03.2	0.4	2.1
17	-IPN	22	53	03.2	0.3	1.4
	+IPZ	22	53	03.3	0.3	2.7
	+IPE	02	40	46.1	0.9	2.0
	+IPN	02	40	46.3	1.0	3.5
	+IPZ	02	40	46.1	1.0	11.5
	+ISE	02	43	09.9	1.6	2.2
	-ISN	02	43	09.8	1.0	1.9
	+ISZ	02	43	09.5	2.0	6.0
	+EXE	02	50	07.1	1.0	3.5
	+EXN	02	50	07.1	1.4	4.5
18	-EXZ	02	50	07.7	1.8	4.2
	-IPE	22	28	36.7	0.7	1.5
	+IPN	22	28	36.6	1.0	3.0
	+IPZ	22	28	36.6	1.0	5.0
	+EXE	22	31	55.7	1.0	1.5
	-EXN	22	31	55.7	0.6	0.8
	+EXZ	22	31	55.3	0.7	1.3
	LP+SKSE	22	34	31.9	9.4	3.5
	LP+LRE	23	03	23.4	17.8	6.5
	-IPE	02	01	35.5	1.8	4.5
	+IPN	02	01	35.2	1.4	2.6
	+IPZ	02	01	34.9	1.5	7.0
	-EXE	02	42	15.0	1.7	1.9
	-EXN	02	42	17.0	1.3	0.9
	-EXZ	02	42	16.0	1.2	1.4
	+IPE	17	01	20.2	1.6	8.2
	+IPN	17	01	20.0	1.8	4.3
	-IPZ	17	01	20.0	1.8	26.8
+IPPE	17	02	09.0	1.4	5.8	
-IPFZ	17	02	08.7	2.2	24.7	
+EPE	20	17	23.7	1.3	2.0	
-EPN	20	17	25.7	1.2	1.0	
+EPZ	20	17	23.9	1.2	3.7	
-EPE	20	18	51.9	0.9	1.8	
+ISZ	20	18	51.2	1.3	3.8	
-EPE	22	23	57.8	1.2	1.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUN 18	+EPN	22	23	57.9	1.2	0.6	
	+EPZ	22	23	58.4	1.1	1.9	
19	+EPE	22	45	21.6	0.7	1.0	
	+EPN	22	45	20.8	0.8	0.7	
	+IPZ	22	45	21.5	0.5	2.5	
	-IPE	07	44	56.5	1.3	7.5	
	+EPN	07	44	57.2	1.0	1.2	
	-IPZ	07	44	56.6	1.6	20.5	
	+IPE	12	06	29.0	0.9	0.7	
	-IPZ	12	06	28.6	0.8	1.9	
	20	LP-LRE	20	58	15.0	16.9	4.0
	21	-IPE	09	01	25.7	1.0	1.7
22	+EPN	09	01	25.4	1.0	1.2	
	+IPZ	09	01	24.9	1.4	3.8	
	+EXE	12	47	18.4	1.4	2.4	
	+EXN	12	47	20.0	3.0	2.6	
	+EXZ	12	47	16.3	3.9	14.5	
	-IPE	15	21	02.1	1.9	11.1	
	+IPN	15	21	02.1	1.5	11.0	
	-IPZ	15	21	02.0	2.0	35.5	
	23	+EPE	02	06	56.0	0.4	0.5
	+EPN	02	06	56.1	0.4	0.9	
24	+IPZ	02	06	56.0	0.5	3.1	
	+EPE	00	42	55.9	1.1	1.0	
	+EPN	00	42	55.5	0.8	0.5	
	-EPZ	00	42	54.2	0.6	1.0	
	25	+EPE	10	15	23.0	0.6	0.6
	+EPN	10	15	24.3	1.0	0.4	
	+EPZ	10	15	24.2	1.0	0.8	
	+EPE	15	38	31.5	1.2	0.6	
	+EPN	15	38	33.8	1.3	0.5	
	+EPZ	15	38	33.0	1.9	2.4	
27	+EPN	10	06	48.0	1.0	0.6	
	+EPZ	10	06	48.1	0.9	0.9	
	+EPE	12	31	28.1	1.0	1.0	
	+EPN	12	31	28.2	1.0	1.0	
	+EPZ	12	31	28.3	1.0	1.4	
	LP+LRE	15	01	13.1	17.8	4.0	
	LP+LRZ	15	01	02.8	18.8	6.0	
	-EPE	22	55	31.6	0.9	0.6	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUN 27	-EPN	22	55	32.9	1.0	1.0
	+EPZ	22	55	31.2	1.4	1.3
28	+EPE	01	04	00.7	0.7	1.0
	+EPN	01	04	00.8	0.8	0.6
	+EPZ	01	04	00.4	0.9	1.5
	+ESE	01	04	30.4	1.1	0.8
	+ESN	01	04	30.4	1.1	0.5
	-ISZ	01	04	30.4	1.8	3.1
	LP+LRE	17	11	13.1	20.6	6.0
	LP+LRZ	17	11	07.5	22.5	7.0
	+EPE	19	15	37.0	1.0	1.2
	+EPN	19	15	38.5	0.8	0.5
	+EPZ	19	15	38.2	0.8	1.5
	EPN	19	20	09.4		
	+EPZ	19	20	08.0	0.7	0.7
	LP-LRE	20	11	22.5	22.5	5.0
	LP-LRZ	20	11	15.0	22.5	6.0
	29	+EPE	22	15	32.8	1.7
+EPZ		22	15	33.0	1.3	3.3
+IPE		07	36	42.1	1.0	3.5
EPN		07	36	43.2		
+IPZ		07	36	42.2	2.2	12.0
LP+LSE		07	46	45.0	9.4	8.0
LP-ISN		07	46	46.9	7.5	4.0
LP-LSZ		07	46	50.6		
LP-EPSE		07	47	46.9	15.0	4.5
LP-EPsz		07	47	46.9	18.8	4.5
-EPE		12	08	45.4	0.6	1.0
+IPN		12	08	45.6	0.6	0.9
-IPZ		12	08	45.0	0.9	1.4
+ESE		12	09	00.8	0.6	1.5
-ESN		12	09	01.0	1.4	1.5
30		+ESZ	12	09	02.5	0.9
	+EPE	23	33	27.1	1.2	1.8
	-EPN	23	33	27.0	0.6	0.8
	-EPZ	23	33	27.2	0.8	1.5
	EPE	05	24	37.6		
	-EPN	05	24	37.0	0.6	0.7
	+EPZ	05	24	36.6	0.6	0.6
	EPE	15	24	01.5		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUN 30	+EPN	15	24	01.0	1.0	1.4	
	+EPZ	15	24	01.3	1.8	2.4	
	+EPE	19	45	37.0	0.6	2.1	
JUL 01	-IPN	19	45	38.0	0.7	1.0	
	+EPZ	19	45	38.1	0.8	1.3	
	+EPN	02	20	37.1	1.1	0.6	
	-EPZ	02	20	37.0	1.1	1.5	
	-EPN	19	07	41.4	1.0	1.1	
	+EPZ	19	07	41.3	1.0	2.5	
	-EPE	19	41	20.2	1.2	2.0	
	+EPN	19	41	21.3	1.1	1.3	
	-EPZ	19	41	20.3	1.1	2.0	
	-EPN	21	23	36.5	0.6	1.0	
02	+EPZ	21	23	35.2	1.0	1.0	
	LP-LRZ	01	44	09.4	19.7	6.5	
	+EPN	04	09	59.4	1.3	2.0	
	+IPZ	04	09	59.5	0.5	0.9	
	-EPE	05	20	33.8	1.2	4.5	
	-EPN	05	20	33.8	1.1	2.5	
	+IPZ	05	20	33.5	2.3	12.5	
	+EXN	18	41	28.0	1.4	0.6	
	+EXZ	18	41	29.0	1.0	0.6	
	03	LP-EPZ	14	52	13.1	07.5	4.5
-EXN		14	52	26.0	0.9	3.0	
-EXZ		14	52	28.0	2.5	11.0	
LP-EPPZ		14	55	54.4	08.4	3.5	
+ISE		15	02	39.8	1.3	2.1	
+ISN		15	02	39.5	1.7	1.9	
04		EPE	07	27	06.9		
		EPN	07	27	07.3		
		+IPZ	07	27	07.0	1.1	3.2
		-EPE	12	41	07.0	1.0	1.5
	-IPN	12	41	07.0	1.2	1.5	
	+IPZ	12	41	06.5	0.9	2.0	
	04-05 06	NO RECORD					
		+EPN	08	59	05.6	1.5	2.1
		-IPZ	08	59	05.0	1.6	5.0
		+IPN	11	40	10.5	1.2	2.0
-IPZ		11	40	10.5	1.2	7.7	
-ISN		11	42	19.4	2.0	5.4	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUL 06	-ISZ	11	42	18.0	3.0	14.7	
	+IPE	20	26	04.6	0.8	1.6	
	+IPZ	20	26	05.0	0.7	0.6	
07	LP+LRE	15	44	16.9	20.6	2.5	
	LP+LEZ	15	44	16.9	20.6	7.0	
08	-IPE	09	01	05.5	1.2	7.0	
	+IPN	09	01	05.6	1.1	2.6	
	-IPZ	09	01	05.6	1.1	21.0	
	-EPE	20	51	52.1	0.5	1.0	
	+EPZ	20	51	52.1	0.5	0.6	
	+ESE	20	52	16.3	1.4	1.8	
	-ESZ	20	52	16.6	1.4	2.6	
	+EPE	10	38	02.2	0.8	1.0	
	-EPN	10	38	02.3	0.9	2.3	
	+IPZ	10	38	02.5	1.1	2.9	
09	+IPE	13	42	29.2	1.2	3.1	
	+IPZ	13	42	29.2	1.2	7.0	
	+EPE	16	56	46.3	1.1	1.5	
	+EPN	16	56	45.9	1.1	1.2	
	-IPZ	16	56	46.0	1.3	4.5	
	+ESE	16	59	11.4	2.5	2.3	
	+ESZ	16	59	12.5	2.0	3.0	
	+EPN	21	59	34.9	0.8	1.1	
	+EPZ	21	59	35.1	0.9	2.0	
	10	-IPE	00	22	21.0	1.2	1.2
		-IPN	00	22	21.0	1.3	2.5
		+IPZ	00	22	20.2	1.8	5.5
		LP+EXE	00	30	52.5	5.6	1.5
		LP+LXZ	00	30	52.5	23.4	5.0
+EXE		00	45	26.2	1.2	0.6	
+EXZ		00	45	26.2	0.6	0.6	
-IPE		01	48	49.5	3.6	28.0	
-IPN		01	48	49.1	1.8	4.0	
+IPZ		01	48	49.0	3.0	40.0	
LP-EPPN	01	49	48.8	7.5	2.0		
LP+IPPZ	01	49	50.6	9.4	5.5		
+ISE	01	53	48.4	1.1	6.9		
ISN	01	53	48.3				
-ISZ	01	53	49.0	1.1	11.0		
LP-ISN	01	55	46.9	11.3	9.0		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUL 10	LP-ISZ	01	55	46.9	16.9	10.0	
	LP+ISSZ	01	58	43.1	16.9	17.0	
11	+IPE	02	49	50.4	1.1	1.2	
	+IPN	02	49	51.0	1.5	2.8	
	+IPZ	02	49	50.2	1.1	4.3	
	+IPE	04	32	01.4	0.7	1.0	
	-EPN	04	32	01.8	0.6	1.0	
	-EXE	04	34	10.1	1.0	1.1	
	+EXN	04	34	10.2	1.1	0.5	
	-EXZ	04	34	10.0	1.1	1.4	
	+EXE	05	15	49.8	1.5	1.9	
	+EXN	05	15	50.2	1.4	0.9	
	+EXZ	05	15	49.3	2.3	3.1	
	+EXE	05	18	23.4	1.3	1.3	
	+EXN	05	18	22.9	1.3	0.9	
	+EXZ	05	18	22.3	1.3	1.2	
	-IPE	05	23	15.3	1.4	6.9	
	+IPN	05	23	15.2	1.5	5.9	
12	+IPZ	05	23	14.7	1.5	12.4	
	+ISE	05	32	39.7	2.1	2.9	
	-ISN	05	32	40.0	1.6	1.4	
	+ISZ	05	32	40.8	1.2	1.5	
	LP-ISZ	05	33	46.9	16.9	10.5	
	+IPZ	06	42	01.6	1.0	4.6	
	-EPE	20	01	59.0	1.0	1.6	
	-EPN	20	02	00.0	0.7	0.6	
	EPZ	20	01	59.9			
	+EPE	19	23	26.0	1.2	1.1	
	+EPZ	19	23	25.9	1.3	1.7	
	13	+EPN	18	55	21.6	0.8	1.0
		+EPZ	18	55	21.1	1.2	0.8
	14	LP+LRZ	09	00	48.8	20.6	4.0
		+EXN	17	42	09.2	2.0	1.2
	15	-EXZ	17	42	08.4	1.2	2.5
+EPZ		02	28	44.0	1.0	0.6	
16	+EPN	04	58	14.1	1.1	0.9	
	+EPZ	04	58	13.6	1.4	1.9	
17	EPE	18	49	27.5			
	+IPZ	18	49	27.0	0.3	1.1	
18	+EXE	06	04	39.9	0.8	1.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUL 16	+EXN	06	04	40.0	0.6	1.1
	+EXZ	06	04	41.9	0.8	1.2
17	-EPE	07	23	43.8	1.1	1.7
	-IPZ	07	23	44.0	1.1	2.9
	+IPE	23	50	29.5	1.4	2.3
	-IPN	23	50	29.5	1.2	2.0
	+IPZ	23	50	29.5	1.3	5.4
	+IPE	10	34	20.8	1.3	1.2
	-IPN	10	34	20.7	1.7	1.8
	-IPZ	10	34	20.3	1.7	3.3
	+ESN	10	36	05.0	1.2	1.9
	-ESZ	10	36	05.0	2.0	3.1
18	LP-IXE	10	52	02.8	15.0	18.5
	LP+EXN	10	52	03.8	15.9	10.0
	LP-IXZ	10	52	01.9	16.9	36.0
	+EPE	23	53	13.3	0.3	1.1
	-EPZ	23	53	15.0	0.6	0.5
	-EPE	13	27	24.9	1.5	1.7
	+IPZ	13	27	24.8	2.0	1.8
	+IPE	18	23	15.8	1.2	2.0
	+IPZ	18	23	15.8	1.1	2.6
	+IPE	21	37	42.5	1.0	1.5
19	-IPN	21	37	42.8	0.6	1.0
	-IPZ	21	37	42.2	1.0	3.1
	+EPE	01	08	39.8	0.8	1.4
	+EPN	01	08	39.2	0.8	0.6
	+EPZ	01	08	41.5	0.7	1.1
	-EPE	06	48	11.0	1.0	1.0
	-EPN	06	48	11.8	0.8	0.3
	+EPZ	06	48	11.4	1.2	2.2
	+EPE	10	25	55.2	0.4	0.7
	+EPN	10	25	55.0	0.7	1.1
20	+EPZ	10	25	55.0	0.9	1.4
	+IPE	12	02	09.8	1.5	2.0
21	+IPN	12	02	10.1	1.4	1.6
	+IPZ	12	02	09.8	1.5	3.2
	LP-EPE	12	02	15.0	15.0	6.5
	LP+IPN	12	02	15.0	13.1	10.0
	LP+IPZ	12	02	13.1	13.1	38.0
	LP+ISE	12	09	24.4	18.8	29.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
JUL 21	LP+ISN	12	09	28.1	14.1	25.0
	LP+ISZ	12	09	30.0	17.8	31.0
22	LP+ISSE	12	13	20.6	16.9	43.0
	LP+ISSZ	12	13	18.8	16.9	17.0
	LP+EPE	12	43	48.8	15.0	19.0
	LP+EPN	12	43	18.8	14.1	39.0
	LP+PPN	12	45	30.0	13.1	15.5
	LP-ESN	12	50	33.8	13.1	18.0
	-EXE	14	15	46.0	0.8	0.5
	+EXZ	14	15	47.6	1.0	0.6
	+EPE	02	37	54.9	0.6	1.0
	+EPN	02	37	54.8	0.4	0.5
23	-EXZ	02	37	54.0	0.6	0.6
	-EXE	06	21	29.2	0.7	0.6
	-EXN	06	21	29.6	1.0	1.1
	+EXZ	06	21	30.3	1.0	1.0
	+IPE	17	28	11.0	2.0	7.0
	-IPN	17	28	11.0	1.6	6.0
	+IPZ	17	28	11.0	2.0	20.0
	LP+ESN	17	37	41.3	13.1	3.0
	LP+ESZ	17	37	41.3	18.8	2.5
	LP+PKKPN	17	46	16.9	20.6	5.0
24	LP+PKKPZ	17	46	28.1	22.5	5.0
	LP+LRN	17	57	31.9	24.4	6.0
	LP+LRZ	17	57	09.4	22.5	16.0
	-EPE	20	57	47.9	1.2	1.7
	-EPN	20	57	48.0	0.9	0.9
	-EPZ	20	57	47.4	1.3	5.0
	+EPE	02	31	33.3	0.4	0.6
	+EPN	02	31	35.0	0.8	1.0
	+IPZ	02	31	35.1	1.0	2.8
	-ESE	17	37	33.2	0.8	1.0
22	-ESN	17	37	35.0	1.8	1.5
	-ESZ	17	37	33.2	0.7	1.4
24	+EPE	03	54	44.0	0.8	0.6
	+EPZ	03	54	43.2	1.2	0.8
	+EPN	06	36	02.2	1.7	1.4
	+IPZ	06	36	01.0	3.0	3.8
	LP+ISN	06	47	09.4	12.2	10.5
	LP+ESZ	06	47	09.4	15.0	4.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUL 24	LP+LRE	07	18	37.5	18.8	3.5	
	LP-LRN	07	18	38.4	18.8	13.0	
	LP-LRZ	07	18	35.6	18.8	34.0	
	-EPE	15	36	18.0	1.0	1.5	
	+EPZ	15	36	17.4	1.3	1.8	
	+EPE	22	53	33.2	1.3	1.5	
	+EPN	22	53	33.4	1.1	0.8	
	+EPZ	22	53	33.2	1.2	2.2	
	25	+EPN	01	05	55.7	1.3	0.6
		+EPZ	01	05	56.5	1.3	1.1
25-26	NO RECORD						
27	-EPE	03	08	09.7	1.2	1.0	
	+EPN	03	08	09.8	1.2	0.8	
	-EPZ	03	08	09.8	1.2	2.3	
	-EPE	12	24	57.5	0.6	0.6	
	+EPZ	12	24	59.5	0.8	0.3	
28	-IPE	14	25	51.4	0.6	1.4	
	+IPN	14	25	51.5	0.6	1.5	
	+IPZ	14	25	51.7	1.0	2.0	
29	+IPE	04	37	09.0	0.8	2.1	
	+IPN	04	37	09.0	1.0	2.7	
	+IPZ	04	37	09.0	0.8	3.0	
	+EPE	04	43	00.0	1.3	3.0	
	+EPN	04	43	00.0	0.7	2.0	
	+EPZ	04	43	00.0	0.6	2.0	
	-EPE	04	53	18.7	0.8	1.5	
	-EPN	04	53	17.7	0.6	0.8	
	+EPZ	04	53	18.4	0.7	1.0	
	+IPE	11	28	50.0	1.9	2.4	
	+IPN	11	28	50.8	2.0	2.0	
	+IPZ	11	28	50.7	2.3	5.0	
	LP+EPPE	11	32	45.0	13.1	7.0	
	LP+EPPN	11	32	50.6	11.3	20.0	
	LP+IPPZ	11	32	45.0	13.1	26.0	
	LP-EXE	11	45	31.9	14.1	15.5	
	LP-EXZ	11	45	33.8	18.8	25.0	
LP+ESSE	11	46	15.9	16.9	42.0		
LP+ISSN	11	46	05.6	15.0	39.0		
LP-ESSZ	11	46	13.1	18.8	32.0		
+IPE	22	21	24.3	0.4	1.1		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
JUL 29	-IPN	22	21	24.8	0.3	0.5	
	+IPZ	22	21	25.9	0.6	0.6	
	-ISE	22	21	26.9	0.8	12.0	
	-ISN	22	21	26.8	0.8	10.0	
	ISZ	22	21	27.1			
	30	+EPE	04	00	32.5	0.4	0.8
		-EPN	04	00	32.8	0.3	0.5
		+EPZ	04	00	32.1	0.8	1.5
		+ESE	04	00	56.1	0.6	2.3
	31	-ESN	04	00	56.1	0.7	1.1
+EPE		01	22	32.0	0.8	0.6	
+EPN		01	22	32.9	0.7	1.0	
+EPZ		01	22	32.9	0.8	1.1	
+EPE		19	00	12.3	1.0	0.7	
+EPN		19	00	13.0	0.8	0.6	
+IPZ		19	00	13.7	1.0	2.5	
+EXE		10	33	13.5	1.2	0.7	
+EXZ		10	33	11.6	1.5	1.2	
-IPE		13	45	06.9	1.6	5.2	
AUG 01	+IPN	13	45	06.8	1.3	3.5	
	IPZ	13	45	06.8			
	+IPE	21	31	55.0	1.0	1.0	
	+IPN	21	31	55.0	0.9	1.1	
	-IPZ	21	31	55.6	0.9	1.9	
	02	+EPE	00	48	19.7	1.0	1.5
		-EPN	00	48	18.1	0.6	0.8
		+EPZ	00	48	20.1	1.0	1.7
		+EPE	10	21	52.9	1.0	0.7
	03	+EPN	10	21	54.0	0.6	0.4
+EPZ		10	21	54.0	1.0	0.6	
+IPE		00	05	12.5	0.7	1.0	
+IPZ		00	05	12.4	1.2	2.0	
+EPE		12	24	56.9	0.8	1.1	
+EPZ		12	24	56.9	1.8	2.2	
04		-IPE	01	17	26.4	2.6	35.0
		-IPN	01	17	26.5	1.6	3.5
		IPZ	01	17	25.9		
		LP EPN	01	17	26.3		
04	LP+EPZ	01	17	26.3	9.4	3.0	
	LP-PPN	01	18	28.1	7.5	2.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
AUG 04	LP+PPZ	01	18	28.1	9.4	6.0	
	-ISE	01	22	27.6	2.2	16.3	
	-ISN	01	22	26.2	1.6	4.1	
	-ISZ	01	22	28.0	2.0	10.5	
	LP-ESN	01	22	26.3	9.4	4.0	
	LP+SSN	01	24	28.1	13.1	6.0	
	LP+SSZ	01	24	28.1	11.3	4.0	
	-EXE	01	27	42.0	1.0	1.7	
	-EXN	01	27	41.7	1.8	5.7	
	+EXZ	01	27	42.0	1.3	2.0	
	+IPE	11	04	31.0	0.9	1.6	
	+EPN	11	04	30.9	0.7	0.6	
	-IPZ	11	04	31.1	0.9	4.4	
	+EPE	16	59	39.3	1.4	1.6	
	-EPN	16	59	38.5	1.0	0.8	
	+IPZ	16	59	39.0	1.2	3.5	
	-EPN	22	37	49.3	1.6	1.8	
	+EXZ	22	37	47.4	1.1	0.6	
	05	+EPN	22	09	16.0	1.2	0.6
		+IPZ	22	09	15.4	1.5	4.6
06	+EPN	08	09	49.9	0.8	1.9	
	+EPZ	08	09	50.0	0.9	2.4	
07	+IPE	01	58	09.9	1.8	3.1	
	-IPN	01	58	10.0	1.5	1.5	
08	+IPZ	01	58	08.5	1.4	2.3	
	+IPE	02	17	54.9	1.5	1.6	
	+IPN	02	17	55.3	1.2	1.3	
	+IPZ	02	17	55.2	1.5	3.6	
	-EPE	07	52	52.0	0.7	0.6	
	+EPN	07	52	52.0	0.8	0.5	
	+IPZ	07	52	51.7	1.0	1.7	
	+EXE	04	58	56.2	1.2	0.6	
	-EXN	04	58	56.2	1.0	0.7	
	-EXZ	04	58	55.8	1.2	1.0	
	-EPN	13	11	46.8	1.0	0.6	
	-IPZ	13	11	46.6	1.2	3.1	
	+IPE	14	17	21.3	1.9	2.1	
	-EPN	14	17	21.7	1.6	1.0	
	+IPZ	14	17	21.4	2.0	3.8	
-EPE	15	17	42.7	1.6	1.2		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
AUG 08	+EPN	15	17	42.5	1.2	0.7	
	+EPZ	15	17	42.2	1.2	2.3	
	+EXE	20	09	10.5	1.6	1.7	
	+EXN	20	09	12.0	1.3	0.4	
	+EXZ	20	09	12.0	1.4	0.6	
	-IPE	22	32	31.4	0.7	0.8	
	-EPN	22	32	31.6	0.3	1.1	
	-IPZ	22	32	31.5	0.5	3.5	
	10	LP-LRE	02	16	48.8	15.0	3.5
		LP+LRN	02	16	28.1	15.0	4.5
	+EPE	10	49	00.2	1.0	1.1	
	+EPZ	10	49	00.0	1.3	2.2	
	+EPE	13	07	07.5	0.9	2.8	
	-IPN	13	07	08.0	0.8	2.0	
	-EPZ	13	07	08.3	0.8	3.0	
	+EPN	18	38	51.5	1.0	0.6	
	+IPZ	18	38	51.1	1.0	2.0	
	+ESE	18	40	56.8	1.2	0.6	
	+ESN	18	40	58.2	1.6	0.6	
	+ESZ	18	40	57.2	2.3	4.8	
11	-IPE	01	55	42.2	1.6	2.5	
	-IPN	01	55	42.9	2.0	6.5	
12	-IPZ	01	55	42.2	2.0	9.5	
	LP+EPN	01	55	41.2	7.5	2.5	
14	LP+ISN	02	06	26.3	12.2	16.5	
	LP+ISE	02	06	31.9	15.0	11.5	
	LP+PSE	02	07	22.5	14.1	14.0	
	LP+LRE	02	38	37.5	15.0	3.0	
	LP-LRN	02	38	33.8	16.9	5.0	
	+EPE	04	01	12.1	0.9	0.5	
	+EPN	04	01	12.8	0.9	0.3	
	-EPZ	04	01	12.2	0.8	1.4	
	+EPN	21	26	52.8	0.6	0.3	
	+EPZ	21	26	53.0	0.8	0.6	
	-EXZ	21	58	24.8	1.2	0.7	
	+EPE	11	40	13.9	0.8	0.6	
	EPN	11	40	14.2			
	+EPZ	11	40	14.0	1.0	1.8	
+EPE	19	13	14.4	1.2	1.0		
+EPN	19	13	17.0	1.2	0.4		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
AUG 14	-EPZ	19	13	16.2	1.5	1.1
19	-IPE	06	20	38.0	0.5	0.6
	-IPZ	06	20	38.0	1.0	3.1
14	-EPZ	19	13	16.4	1.2	1.2
	+IXE	19	13	55.9	1.7	2.4
	-EXN	19	13	56.0	0.9	0.8
	+IXZ	19	13	55.5	1.3	2.8
	-EPE	20	31	51.0	1.7	2.5
	+EPN	20	31	51.7	1.4	1.4
	+EPE	21	50	29.9	1.4	4.3
	+EPN	21	50	31.0	1.0	0.8
	+IPZ	21	50	29.8	1.4	9.0
	+ISE	21	59	00.3	3.8	7.5
	ISN	21	59	00.0		
	-ISZ	21	59	00.9	3.4	3.8
	+ISE	22	00	00.6	4.3	7.5
	ISN	22	00	00.0		
	-ISZ	22	00	01.0	3.4	3.8
	LP+ESE	22	00	00.0	15.0	3.5
	LP+ESH	22	00	00.0	15.0	4.5
	+EXE	22	02	33.1	1.5	2.6
	-EXZ	22	02	33.8	0.9	0.6
	LP+LRE	22	15	26.3	22.5	4.0
	LP-LRN	22	15	25.3	24.4	8.0
15	+IPE	05	53	43.9	1.7	2.4
	+IPN	05	53	43.0	1.4	1.8
	+IPZ	05	53	43.7	1.1	5.5
	-EPE	09	17	37.0	0.6	0.7
	-EPZ	09	17	38.2	0.6	0.6
	-EPE	19	41	57.3	0.7	0.6
	-EPN	19	41	56.5	0.4	0.5
	EPZ	19	41	57.6		
	+EXE	19	42	45.8	1.2	2.8
	+EXN	19	42	45.0	1.0	1.1
	+EXZ	19	42	47.9	1.4	3.6
16	+IPE	06	27	51.2	1.8	3.0
	-EPN	06	27	51.0	1.2	1.8
	+EPZ	06	27	50.8	1.8	5.8
17	-EPN	03	20	33.0	1.1	0.7
	-EPZ	03	20	32.0	1.2	1.3

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
AUG 17	-EPE	04	15	38.0	1.7	1.4
	+EPN	04	15	38.0	1.1	0.5
	+EPZ	04	15	37.1	1.5	2.4
	+EPE	10	47	39.0	1.0	0.6
	-EPN	10	47	38.3	1.0	1.5
	+EPZ	10	47	37.0	0.8	1.2
	+EPE	17	08	34.9	1.2	1.1
	+EPZ	17	08	35.0	1.0	1.4
18	+EPE	00	17	05.0	1.4	2.8
	-EPN	00	17	04.3	0.6	0.9
	+EPZ	00	17	04.6	0.8	1.1
	+EXE	05	13	40.2	1.2	1.4
	+EXN	05	13	43.0	1.2	0.8
	+EXZ	05	13	41.4	1.2	0.9
	+EPE	12	19	09.7	1.2	0.8
	+EPZ	12	19	08.2	1.7	2.2
	+IPE	13	16	43.5	1.1	1.5
	+EPN	13	16	43.8	1.0	0.6
	-IPZ	13	16	43.0	1.2	6.0
19	-EPE	03	54	54.2	1.6	2.0
	+EPN	03	54	54.7	1.2	0.4
	+EPZ	03	54	54.2	2.0	2.8
	+EPE	05	20	25.5	2.0	4.1
	+EPN	05	20	25.5	1.2	0.9
	+IPZ	05	20	25.4	2.0	8.5
	-EXN	06	20	42.0	1.0	1.0
	LP+IPE	06	20	45.0	16.9	61.0
	LP+IPN	06	20	42.2	16.9	43.0
	LP-ISE	06	30	35.6	17.8	244.0
	LP+ISN	06	30	35.6	20.6	93.0
	LP+SSE	06	34	15.0	16.9	101.0
	+IPE	13	35	23.8	1.2	3.0
	-IPZ	13	35	22.3	0.7	1.2
	-EPE	13	43	58.9	0.9	1.0
	-EPZ	13	43	58.0	0.9	1.0
	-IPE	14	34	24.7	1.1	1.5
	-IPZ	14	34	24.3	1.5	4.1
	-EPE	16	03	10.0	1.2	1.5
	EPN	16	03	09.6		
	-IPZ	16	03	10.0	1.1	2.9

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
AUG 19	+EPE	16	34	17.2	1.2	1.2	
	+IPZ	16	34	17.1	2.0	2.8	
	-IPE	18	14	39.0	1.1	2.1	
	-IPN	18	14	38.8	1.2	3.5	
	+IPZ	18	14	38.8	2.2	11.0	
	-EPE	19	50	46.8	1.4	2.9	
	-EPZ	19	50	45.7	1.1	1.9	
	-IPE	20	32	05.0	1.8	6.0	
	+IPZ	20	32	05.0	1.8	3.1	
	+EPE	21	46	49.2	1.8	1.8	
	-IPZ	21	46	48.9	2.1	3.2	
	20	-IXE	04	10	26.7	1.0	1.0
		-IXZ	04	10	26.5	1.3	2.6
		-EPE	04	32	12.7	1.7	1.9
-EPZ		04	32	12.6	2.0	4.3	
+EPE		09	33	35.0	1.2	1.2	
-IPZ		09	33	34.7	1.3	2.4	
LP-EPE		12	23	46.9	16.9	15.0	
LP+ISE		12	32	11.3	16.9	46.0	
+EPE		12	34	47.6	1.7	1.1	
+EPN		12	34	46.0	1.3	1.8	
+EPZ		12	34	47.7	1.3	2.7	
+IPE		18	35	16.5	0.4	1.0	
IPN		18	35	17.0			
-IPZ		18	35	16.4	0.3	2.3	
+IPE	19	28	18.1	1.8	5.3		
-IPZ	19	28	17.0	1.8	2.8		
LP+LRE	19	53	24.4	24.4	9.0		
LP+LRN	19	53	30.0	23.4	19.5		
LP+LRZ	19	53	31.9	24.4	16.0		
21	+EXE	19	55	46.8	1.0	0.6	
	-EXZ	19	55	48.3	1.2	1.1	
	+IPE	02	01	31.9	1.0	1.4	
	-IPZ	02	01	31.0	1.7	3.6	
	-IPE	02	24	09.8	1.2	2.3	
	+EPN	02	24	10.5	1.0	0.5	
	-IPZ	02	24	09.9	1.3	6.0	
	-IPE	02	53	17.8	1.2	3.3	
	-IPZ	02	53	17.9	1.3	8.5	
	+IXE	07	02	15.5	1.5	1.4	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
AUG 21	EXN	07	02	17.6		
	+IXZ	07	02	15.3	1.3	2.0
	+IPE	09	41	20.0	0.7	0.5
	-IPZ	09	41	20.0	0.6	1.5
	+IPE	11	21	43.0	1.0	2.0
	-IPZ	11	21	42.6	1.1	4.7
	+EPE	13	46	12.0	1.0	0.5
	+EPN	13	46	11.4	1.0	1.0
	+IPZ	13	46	10.5	1.5	2.4
	+IPN	15	48	33.0	1.2	1.5
	+IPZ	15	48	33.1	1.6	3.6
	+IPE	19	46	56.1	1.6	4.6
	-IPN	19	46	56.0	1.2	5.0
	+IPZ	19	46	56.0	1.6	12.0
22	+EPE	20	41	31.2	2.2	2.7
	+EPZ	20	41	31.1	2.2	5.2
	-ESE	20	49	32.0	1.5	1.7
	+ESZ	20	49	31.5	1.1	1.0
	+EPE	07	21	39.4	0.8	1.0
	-EPZ	07	21	39.0	1.2	2.0
	-EPN	12	23	49.7	1.3	2.0
	-EPZ	12	23	49.9	1.2	2.7
	-EPE	14	25	02.8	1.0	1.6
	+EPZ	14	25	02.0	1.6	1.2
	-IPE	21	57	16.0	1.0	2.5
	+EPN	21	57	16.2	1.2	1.0
	+IPZ	21	57	15.8	1.0	3.4
	+EPE	22	10	52.0	1.0	0.7
23	+EPZ	22	10	51.0	1.0	0.5
	+IPE	03	24	31.7	1.0	2.0
	+IPN	03	24	31.8	0.6	0.6
	-IPZ	03	24	31.8	1.1	6.2
	-IPE	08	19	30.0	1.1	1.5
	-EPN	08	19	29.6	1.2	1.0
	+IPZ	08	19	29.1	1.6	3.3
	+IPE	10	35	52.5	2.0	1.5
	+IPZ	10	35	52.3	1.2	2.6
	EPE	11	24	43.0		
	+EPZ	11	24	42.5	0.3	0.5
	-IPE	14	29	32.6	1.6	3.6

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
AUG 23	+IPN	14	29	32.6	1.6	2.1
	-EPZ	14	29	30.5	1.0	2.0
24	+IPE	02	03	26.5	1.7	1.7
	+IPN	02	03	26.5	1.7	1.8
	-EPZ	02	03	26.0	1.1	2.3
25	-EXE	02	13	01.5	1.2	3.0
	+EXN	02	13	02.0	1.3	2.5
	-EXZ	02	13	02.2	1.5	3.5
	+EPE	02	41	34.0	1.7	1.5
	-EPZ	02	41	33.0	1.8	0.6
	+EPE	11	27	52.0	0.7	0.3
	+EPN	11	27	50.1	1.1	0.3
	+EPZ	11	27	50.6	1.1	1.0
	-IPE	18	16	55.7	1.7	2.3
	-IPZ	18	16	55.3	1.9	4.5
	-EXE	18	20	54.0	2.5	2.4
	-EXZ	18	20	54.8	1.9	4.5
	LP+ESE	18	26	43.1	13.1	4.0
	LP-ESN	18	26	43.1	13.1	3.0
	LP+LRE	21	44	54.4	19.7	8.0
	LP+LRN	21	44	56.3	19.7	22.5
	LP-LRZ	21	44	52.5	20.6	13.0
	+EPE	21	48	56.0	1.2	0.5
	-EPN	21	48	55.8	2.0	1.5
	+IPZ	21	48	55.5	2.2	5.5
	-EPE	23	52	48.0	1.7	1.6
	+EPN	23	52	48.0	1.1	1.0
	+EPZ	23	52	47.1	1.5	2.0
26	-IPE	00	01	36.9	0.7	1.0
	+IPN	00	01	37.0	0.7	1.3
	+IPZ	00	01	36.5	1.0	3.2
	+EPE	08	38	22.5	2.0	1.3
	-IPZ	08	38	23.4	2.3	4.1
	-IPE	16	06	45.6	0.6	6.5
	+IPN	16	06	45.5	0.7	0.6
	-IPZ	16	06	45.5	0.8	7.9
	-ESE	16	09	04.2	1.0	15.0
	ESN	16	09	03.5		
	+ISZ	16	09	04.4	1.0	22.5
	+IPE	19	55	36.8	2.0	21.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
AUG 26	+IPN	19	55	37.0	1.7	3.6
	-IPZ	19	55	37.1	2.4	19.0
	LP+IPE	19	55	38.2	15.5	62.0
	LP+IPN	19	55	38.2	12.7	37.0
	LP-IPZ	19	55	38.2	11.8	97.0
	LP+IPPE	19	56	45.0	15.0	79.0
	LP-IPPN	19	56	40.3	13.1	54.0
	LP-IPPZ	19	56	42.2	12.2	78.0
	LP-PPPE	19	57	07.5	14.1	61.0
	LP-PPPN	19	57	06.6	14.1	36.0
	LP-PPPZ	19	57	09.4	11.3	89.0
	LP-ISZ	20	05	33.8	15.9	296.0
	LP+SSZ	20	06	46.9	9.4	91.0
	+IPE	22	44	34.8	1.2	0.8
	+EPN	22	44	35.8	1.3	0.6
	+IPZ	22	44	35.4	1.1	1.1
27	+IPE	07	24	37.0	1.2	5.3
	+EPN	07	24	38.5	0.6	0.7
	+IPZ	07	24	37.0	2.4	27.6
	LP+PCPZ	07	24	48.8	9.4	38.0
	LP+EPPE	07	27	37.5	16.9	4.0
	LP+IPPZ	07	27	37.5	11.3	14.0
	LP+ISE	07	34	46.9	14.1	13.0
	LP-ISN	07	34	41.3	10.3	16.0
	LP+ISZ	07	34	46.9	11.3	13.0
	LP-PSE	07	35	39.4	15.0	20.0
	LP-PSN	07	35	36.6	14.1	18.0
	LP+PSZ	07	35	37.5	11.3	12.0
	-EXE	07	37	17.0	1.0	3.2
	-EXZ	07	37	16.0	1.6	3.9
	LP-LRE	07	56	07.5	21.6	16.0
	LP-LRN	07	56	13.1	20.6	63.0
	LP-LRZ	07	56	13.1	26.3	27.0
	+ESE	08	34	47.8	4.2	15.6
	+ESN	08	34	45.5	3.2	8.0
	-ESZ	08	34	47.7	4.0	7.8
	+IPE	10	24	36.8	1.6	1.9
	EPN	10	24	36.8		
	+IPZ	10	24	36.0	2.1	2.0
	+IPE	10	54	44.4	1.7	3.2

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
AUG 27	+IPZ	10	54	44.5	1.8	7.5
	+EPE	13	33	55.5	1.2	0.5
	+EPZ	13	33	55.8	1.4	1.3
28	-EPE	21	01	56.4	0.7	0.7
	+EPZ	21	01	56.5	1.0	1.6
	+IPE	14	23	27.9	1.3	1.8
	-IPN	14	23	28.2	1.2	1.5
	+IPZ	14	23	27.8	1.3	4.5
	LP+ESE	14	33	33.8	13.1	2.5
	LP-ESN	14	33	22.5	15.0	4.0
	LP-LRE	14	57	18.8	17.8	3.0
	LP+LRN	14	57	18.8	18.8	4.0
	-EPE	20	23	26.0	1.0	0.9
	-EPN	20	23	26.3	0.9	0.6
29	+EPZ	20	23	25.4	1.2	0.8
	-IPE	12	38	18.1	2.0	2.5
	-EPN	12	38	19.6	1.5	0.8
	+IPZ	12	38	17.9	2.0	4.5
	LP+ESE	12	42	58.1	14.1	2.5
	LP+ESN	12	42	58.1	12.2	5.0
	LP+LRE	12	46	28.1	18.8	6.0
	LP+LRN	12	46	13.1	16.9	9.0
	+EPE	14	37	41.6	1.6	0.7
	+EPN	14	37	39.9	1.7	1.1
	+EPZ	14	37	39.2	3.1	2.2
	LP+LRN	15	20	37.5	19.7	7.0
	+IPE	16	46	43.2	1.2	3.9
	+IPN	16	46	43.0	1.1	2.1
30	-IPZ	16	46	42.2	1.3	11.5
	EPE	21	19	52.0		
	-EPZ	21	19	51.0	1.3	2.0
	-IPE	14	52	11.3	1.5	1.6
	+IPN	14	52	11.4	1.1	1.2
	+IPZ	14	52	11.0	1.2	3.5
	-IPE	21	22	38.4	1.4	3.3
31	-IPZ	21	22	38.7	1.4	6.3
	+ESE	01	00	53.7	1.3	3.0
	-ESN	01	00	51.2	1.0	1.0
	+ISZ	01	00	53.0	2.7	6.2
	LP+EXN	01	06	54.4	9.4	2.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
AUG 31	LP+EXN	01	08	09.4	18.8	4.5
	LP-EXN	01	10	09.4	15.0	4.5
	LP+LRE	01	41	48.8	19.7	12.0
	LP+LRN	01	41	09.4	20.6	13.0
	-EPE	05	41	49.1	1.6	2.0
	+EPN	05	41	48.2	1.0	0.4
	+EPZ	05	41	48.0	1.0	0.7
	-EPE	23	15	36.0	1.2	1.2
	-EPN	23	15	36.9	1.2	0.9
	-IPZ	23	15	36.0	1.2	2.8
SEP 01	+EPE	03	19	28.8	1.2	1.0
	-IPN	03	19	28.5	1.2	1.0
	-IPZ	03	19	28.5	1.2	5.8
	+IPE	13	25	23.1	1.1	3.2
	+EPN	13	25	24.2	1.5	0.5
	-IPZ	13	25	22.8	1.5	7.1
	+EPE	14	02	57.0	1.0	1.5
	-EPZ	14	02	56.8	1.2	3.0
	+EXE	00	35	58.5	0.4	1.1
	+EXN	00	35	59.4	0.3	1.2
02	+EXZ	00	35	59.4	0.5	1.6
	-IPE	10	48	13.0	2.0	15.9
	+IPN	10	48	15.0	1.8	2.6
	-IPZ	10	48	13.0	2.0	19.0
	+ISE	10	57	54.3	4.0	4.0
	+ISN	10	57	54.0	2.2	2.6
	+ISZ	10	57	52.5	4.5	1.8
	LP-LRE	11	21	58.1	16.9	6.0
	LP+LRN	11	21	45.0	16.9	8.0
	+EXE	19	41	13.9	1.3	0.3
04	+EXN	19	41	12.0	1.2	0.3
	-EXZ	19	41	12.0	1.9	1.8
	+IPE	09	01	33.1	2.0	12.5
	+IPZ	09	01	33.1	2.2	38.8
	-IPN	09	01	33.0	2.1	7.0
	-ISE	09	11	57.8	2.8	2.9
	+ISN	09	11	58.2	2.3	2.6
	-ESZ	09	11	57.0	1.2	1.1
	LP-PSE	09	13	43.1	16.9	8.0
	LP+PSN	09	13	41.3	20.6	9.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
SEP 04	-EPE	16	00	44.5	1.2	0.6	
	+EPN	16	00	42.0	1.4	0.5	
	+EPZ	16	00	43.3	1.4	1.6	
	+EPE	17	30	16.5	1.2	0.4	
	+IPZ	17	30	16.5	1.3	2.0	
	+EPE	17	44	33.5	1.2	0.6	
	+EPN	17	44	32.5	1.0	0.6	
	+IPZ	17	44	32.0	0.8	1.5	
	+EPE	23	40	40.3	1.1	0.5	
	+EPN	23	40	40.7	0.8	0.4	
	+EPZ	23	40	38.6	0.3	1.1	
	05	+EPE	03	21	55.5	0.7	0.7
		EPN	03	21	55.0		
		-IPZ	03	21	55.0	0.9	9.5
-EPE		09	28	48.0	1.0	0.7	
+EPZ		09	28	47.5	1.0	2.0	
+EPE		11	28	43.0	1.2	2.0	
+EPN		11	28	42.0	1.3	0.5	
-EPZ		11	28	42.5	1.7	3.3	
+EPE		15	24	44.0	1.0	2.5	
+EPN		15	24	43.8	1.1	0.6	
+IPZ		15	24	44.0	1.0	5.6	
06		-EPE	04	46	26.8	1.9	2.0
		+EPN	04	46	26.8	1.3	0.8
		+IPZ	04	46	26.0	1.8	3.6
	+EPE	05	13	35.3	1.1	1.7	
	+EPN	05	13	37.0	1.0	0.6	
	+IPZ	05	13	35.0	1.2	5.0	
	-EPE	09	05	24.8	1.5	1.8	
	+EPN	09	05	24.5	1.7	1.1	
	-EPZ	09	05	23.8	1.0	1.0	
	07	+EPE	01	31	09.9	1.8	1.3
		EPN	01	31	09.5		
		+EPZ	01	31	09.9	2.0	3.0
		-EPE	05	05	45.1	1.2	2.8
		+EPN	05	05	46.0	1.2	0.8
-IPZ		05	05	45.1	1.2	11.6	
+EPE		05	51	11.0	1.2	0.6	
+EPZ		05	51	12.4	1.1	0.7	
+IPE		13	54	35.0	1.0	1.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
SEP 07	-EPN	13	54	35.0	0.3	0.7	
	+EPZ	13	54	34.8	0.3	0.4	
	08	+EPE	03	12	05.0	1.1	1.0
		-EPN	03	12	05.0	0.9	1.2
	09	+EPZ	03	12	04.8	0.6	3.0
		-EXE	02	55	41.1	1.1	1.2
	10	-EXZ	02	55	41.2	1.0	2.0
		+EXN	04	31	29.5	1.6	0.6
	11	+EXZ	04	31	28.9	1.4	1.3
		+IPE	13	50	38.4	1.4	11.9
		+IPN	13	50	38.0	2.0	1.5
		+IPZ	13	50	38.0	1.8	26.5
		+IPE	05	15	22.7	1.8	3.0
		+IPN	05	15	23.2	1.2	2.1
+IPZ		05	15	22.8	2.0	6.5	
+ESE		05	21	49.2	4.5	3.4	
+ESN		05	21	51.6	2.8	2.0	
+ESZ		05	21	51.4	4.5	2.8	
LP+ESN		05	21	54.4	13.1	2.0	
LP-LRE		05	32	39.4	16.9	16.0	
LP+LRN		05	32	13.1	15.9	8.5	
+EPE		10	45	18.8	1.0	4.1	
12	-EPN	10	45	19.1	0.4	1.5	
	+EPZ	10	45	19.2	0.8	1.6	
	+EPE	14	25	40.5	1.6	1.3	
	+EPN	14	25	41.3	1.2	0.7	
	-EPZ	14	25	40.2	1.3	1.5	
	LP+LRN	15	08	45.0	17.8	3.0	
	-EXE	23	33	26.2	1.2	1.0	
	+EXN	23	33	29.5	1.4	1.1	
	+EXZ	23	33	28.4	1.5	2.2	
	-ESE	23	37	41.2	1.0	1.1	
	+ESN	23	37	41.0	1.1	0.6	
	+ESZ	23	37	41.0	1.3	1.1	
	LP-LRE	00	19	46.9	20.6	4.5	
	LP-LRN	00	19	52.5	20.6	6.0	
+EPE	14	28	51.8	2.0	2.0		
-EPN	14	28	51.8	2.0	1.5		
+IPZ	14	28	51.0	2.0	3.3		
-IPE	22	45	51.2	1.0	3.0		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
SEP 12	-IPN	22	45	51.3	0.8	0.9
	+IPZ	22	45	51.2	1.3	5.1
13	LP+LRE	22	55	39.4	18.8	4.0
	LP+LRN	22	55	37.5	16.9	4.0
	+EPE	00	35	02.0	1.0	0.6
	-EPN	00	35	03.2	1.3	3.8
	+IPZ	00	35	02.0	0.8	1.9
	LP-EPZ	00	35	03.6	13.1	2.5
	LP-ESE	00	47	15.0	16.9	2.5
	LP+ESN	00	47	09.4	16.9	2.0
	LP-ESZ	00	47	18.8	13.1	2.5
	LP-LRE	01	17	54.4	17.8	7.0
	LP+LRN	01	17	54.4	16.9	7.0
	LP+LRZ	01	17	48.8	17.8	8.0
	14	-IPE	13	42	03.5	1.2
-IPZ		13	42	03.4	1.7	6.0
LP-ESE		22	50	41.3	15.0	2.5
LP-ESN		22	50	41.3	16.9	3.0
-EPE		04	08	27.0	1.2	1.9
+EPN		04	08	26.1	1.2	0.5
+EPZ		04	08	26.0	1.1	0.6
-IPE		14	57	17.0	1.9	6.2
-EPN		14	57	17.2	1.5	1.0
+IPZ		14	57	16.9	1.8	8.9
LP EPZ		14	57	18.8		
LP-PPE		14	58	22.5	11.3	3.5
LP+PPZ		14	58	20.6	11.3	5.0
15	LP+ISE	15	02	24.4	15.0	12.5
	LP ESN	15	02	22.5		
	LP+LRE	15	07	01.9	16.9	26.5
	LP+LRN	15	07	00.0	15.0	26.0
	LP-LRZ	15	07	04.7	15.0	16.0
	-EPE	10	46	17.1	1.8	0.7
	+EPN	10	46	17.0	2.0	1.1
	-EPZ	10	46	17.0	0.9	1.2
	LP+EPE	10	52	54.4	15.0	2.0
	LP-EPN	10	52	52.5	13.1	2.5
15	LP+EPZ	10	52	56.3	11.3	2.5
	LP+ESE	11	03	31.9	16.9	7.0
	LP+ESN	11	03	41.3	15.0	4.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
SEP 15	LP+ESZ	11	03	35.6	16.9	7.0
	-IPE	21	41	14.3	1.6	6.5
	-EPN	21	41	14.4	1.2	1.4
	+IPZ	21	41	14.5	1.1	6.0
	+EPE	21	47	38.8	1.0	1.2
	+IPN	21	47	39.0	1.8	0.9
	+IPZ	21	47	38.5	1.2	5.0
	+EPE	04	52	04.8	1.4	1.4
	+EPZ	04	52	03.5	1.2	1.3
	-EPE	06	42	02.3	1.7	1.6
16	-EPZ	06	42	02.4	1.8	2.7
	+EPE	12	34	37.9	1.2	1.1
	+EPN	12	34	39.0	1.2	0.4
	+IPZ	12	34	37.9	1.4	4.5
	+EPE	21	41	20.8	1.2	1.6
	-EPN	21	41	21.3	1.0	0.6
	+IPZ	21	41	20.5	1.3	1.3
	+EXE	05	41	57.4	1.5	1.8
	-EXN	05	41	54.7	1.7	0.8
	+IXZ	05	41	57.0	1.4	4.0
17	LP-LRE	06	25	35.6	16.9	9.0
	LP-LRZ	06	25	20.6	17.8	10.5
	LP-LRN	06	25	54.4	17.8	5.5
	LP+LRE	21	51	07.5	15.0	3.5
	LP+LRN	21	50	56.3	15.0	4.5
	LP-LRZ	21	51	09.4	15.0	3.0
	+IPE	09	59	01.5	1.5	1.1
	+EPN	09	59	01.0	1.3	1.8
	+IPZ	09	59	00.9	1.6	6.9
	+EPE	05	25	54.8	1.2	1.5
18	+IPZ	05	25	54.8	1.4	3.8
	LP+ISE	05	36	33.8	18.8	11.5
	LP+ESN	05	36	33.8	11.3	5.0
	LP-EPSE	05	37	43.1	15.0	6.0
	+EPE	06	04	18.5	1.0	0.5
	+EPZ	06	04	18.5	1.0	0.6
	-EPE	13	02	44.7	1.2	0.8
	+EPN	13	02	43.5	1.2	0.8
	+IPZ	13	02	44.0	2.0	3.0
	20	EPE	09	40	33.7	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
SEP 20	+IPN	09	40	33.5	1.5	1.7
	-EPZ	09	40	33.3	1.4	7.0
21	+IPE	16	34	41.8	1.4	7.5
	+IPN	16	34	41.8	1.3	4.0
	+IPZ	16	34	41.7	1.2	10.0
	+EPE	18	59	27.7	1.5	0.9
	+EPZ	18	59	27.7	1.8	3.5
	EPE	21	20	55.5		
	-EPN	21	20	55.8	1.0	1.2
	-IPZ	21	20	53.8	1.5	2.0
	+EPE	03	52	27.8	1.1	0.9
	+EPN	03	52	30.0	1.4	0.9
22	-IPZ	03	52	27.0	1.2	2.0
	-EPE	08	00	51.8	1.4	1.5
	-EPN	08	00	51.8	1.2	1.7
	-IPZ	08	00	51.2	1.5	4.0
	-EPE	23	54	31.3	1.4	1.6
	+EPN	23	54	31.4	1.1	0.9
	+EPZ	23	54	31.0	1.7	1.1
	+IPE	06	09	37.4	1.7	1.7
	-IPZ	06	09	37.2	1.8	2.0
	-ESE	06	19	12.8	3.0	3.2
23	-ESN	06	19	13.0	2.0	1.1
	LP-LRE	06	36	11.3	19.7	2.0
	LP-LRN	06	36	18.8	20.6	3.5
	LP+LRZ	06	36	07.5	18.8	4.5
	+IPE	20	57	55.2	1.1	4.0
	+EPN	20	57	56.3	0.9	0.7
	+IPZ	20	57	55.2	1.0	10.5
	+EPE	13	03	05.9	0.9	0.6
	+EPN	13	03	05.9	1.0	0.9
	+EPZ	13	03	05.0	0.8	1.0
24	LP+EPE	06	24	31.9	15.0	1.0
	LP-EPN	06	24	30.0	13.1	1.5
	LP+ESE	06	34	22.5	15.0	4.0
	LP+ESE	06	34	15.0	15.0	4.5
	LP+ESZ	06	34	20.6	15.0	4.5
25	+EPE	05	04	46.0	1.0	1.0
	-IPZ	05	04	46.0	1.0	1.0
	+IPZ	05	04	46.1	2.1	3.2

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
SEP 26	LP-IPZ	05	04	48.8	9.4	4.5	
	LP+EPPE	05	06	37.5	15.0	2.0	
	LP+EPPN	05	06	33.8	11.3	3.0	
	LP-IPPZ	05	06	37.5	11.3	10.5	
	LP-ESE	05	11	16.9	15.9	3.0	
	LP-ESN	05	11	13.1	13.1	8.0	
	LP+ESZ	05	11	16.9	12.2	5.5	
	LP+SSE	05	14	18.8	13.1	3.0	
	LP+SSN	05	14	15.0	15.0	7.5	
	LP+SSZ	05	14	18.8	15.0	4.0	
	LP+LRE	05	21	46.9	19.7	42.5	
	LP+LRN	05	21	46.9	16.9	58.5	
	LP+LRZ	05	21	41.3	17.8	63.0	
	27	LP-EXE	03	03	31.9	16.9	3.5
		LP-EXN	03	03	26.3	15.0	4.0
LP+EXZ		03	03	28.1	16.9	6.0	
28	+IPE	04	50	09.0	1.4	0.8	
	-EPN	04	50	09.4	1.0	0.9	
	+IPZ	04	50	09.0	2.0	3.1	
28-29	NO RECORD						
30	+EPE	10	39	03.8	1.2	0.8	
	-EPZ	10	39	04.8	1.0	0.8	
OCT 01	-EPE	13	04	19.1	1.1	1.1	
	+EPZ	13	04	18.3	1.4	1.5	
	-EPE	14	37	11.0	1.0	1.0	
	+EPN	14	37	10.8	1.3	1.3	
	+EPZ	14	37	10.0	1.6	2.7	
	+EPE	20	14	31.0	1.5	1.3	
	+EPZ	20	14	31.0	1.7	2.3	
	LP-LRE	22	17	20.6	17.8	3.0	
	LP+LRN	22	17	20.6	17.8	3.0	
	LP+LRZ	22	17	15.0	17.8	4.0	
02	-EPE	00	49	14.0	1.3	1.6	
	-EPN	00	49	14.0	1.0	0.7	
	+EPZ	00	49	14.0	1.6	3.0	
	+EPE	18	59	38.5	1.0	0.6	
	+EPN	18	59	38.2	1.0	0.8	
03	+EPZ	18	59	38.0	1.2	3.0	
	-EPE	00	26	45.9	1.2	1.5	
	EPN	00	26	45.0			

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
OCT 03	+EPZ	00	26	45.5	1.2	3.0	
	+EPE	12	32	50.8	1.2	1.8	
	-EPN	12	32	50.8	1.0	1.4	
	-EPZ	12	32	50.3	1.2	3.0	
	-EPE	19	30	29.4	1.0	2.0	
	-EPN	19	30	28.8	1.1	0.8	
	+EPZ	19	30	28.8	1.8	3.2	
	EPE	19	47	24.0			
	+EPN	19	47	24.4	1.2	0.8	
	+EPZ	19	47	22.0	1.2	0.6	
	05	-IPE	04	45	21.5	1.0	6.0
		-IPN	04	45	21.4	1.0	1.1
		IPZ	04	45	21.4		
		-IPE	10	39	45.0	1.3	1.6
+IPN		10	39	44.5	1.2	2.3	
06	+IPZ	10	39	43.3	2.0	6.5	
	+EPE	08	23	30.0	0.8	1.7	
	+EPN	08	23	29.5	1.0	4.0	
07	+EPZ	08	23	29.5	1.2	4.5	
	LP EPE	02	22	37.5			
	LP EPN	02	22	39.4			
	LP+EPZ	02	22	33.8	7.5	4.5	
	+EPE	04	57	31.3	1.4	3.0	
	-EPZ	04	57	30.1	2.0	4.2	
	LP+EPZ	04	57	33.8	9.4	2.5	
	LP+LRE	05	35	12.2	15.9	3.5	
	LP+LRN	05	35	05.6	16.9	3.5	
	LP+LRZ	05	35	11.3	15.9	3.5	
	+EPE	05	51	24.4	1.5	1.5	
	+EPN	05	51	26.0	1.2	0.3	
	+EPZ	05	51	25.0	1.1	3.0	
	-EPE	12	22	31.0	1.3	3.5	
	+EPN	12	22	32.0	0.6	0.3	
	IPZ	12	22	31.0			
	LP-ESE	12	32	19.7	15.0	5.5	
LP+ISN	12	32	20.6	12.2	8.5		
LP+EPZ	12	32	18.8	13.1	3.0		
LP-LRE	13	00	03.6	15.9	17.5		
LP+LRN	13	00	05.6	16.9	13.0		
LP-LRZ	13	00	03.6	16.9	14.0		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 07	+EPE	14	50	22.1	1.2	1.5
	-EPZ	14	50	21.5	1.3	2.5
	+IPE	17	12	00.5	1.2	1.8
	+EPN	17	12	00.0	0.8	0.7
	IPZ	17	12	00.0		
	LP+EXN	17	39	31.9	16.9	3.0
	LP+EXZ	17	39	33.8	18.8	3.0
	+IPE	17	48	35.1	1.1	1.4
	+EPN	17	48	34.8	0.8	0.6
	IPZ	17	48	35.0		
	LP EPZ	17	48	37.5		
	-EPZ	19	16	04.5	1.2	2.0
	+ISE	19	21	52.1	1.8	1.5
	+ISZ	19	21	52.0	2.9	4.0
	-EPE	19	46	04.5	0.9	1.0
	-IPE	21	17	58.5	1.4	2.7
	+EPN	21	18	00.0	1.2	0.7
	IPZ	21	17	58.5		
	LP EPE	21	57	46.9		
	LP+EPN	21	57	45.0	13.1	2.0
	LP-EXN	22	13	54.4	18.8	3.5
	LP-EXZ	22	13	56.3	22.5	3.5
	08	+EPE	03	17	09.6	0.8
-EPN		03	17	10.0	0.8	1.1
+EPZ		03	17	08.7	1.1	2.0
09	+EPE	10	15	11.3	1.0	0.5
	+EPN	10	15	10.2	1.1	0.6
10	-EPZ	10	15	10.0	1.0	1.0
	+IPE	19	19	27.5	1.0	3.0
	EPN	19	19	28.5		
	IPZ	19	19	27.5		
	-EPE	22	07	15.2	1.2	1.6
	+EPN	22	07	16.0	1.0	0.5
	+EPZ	22	07	15.0	1.4	2.5
	-IPE	12	06	12.8	1.9	8.5
	+IPN	12	06	12.5	1.8	9.5
	IPZ	12	06	12.5		
LP+IPE	12	06	15.0	16.9	22.0	
LP+IPN	12	06	15.0	13.1	24.0	
LP-IPZ	12	06	15.0	9.4	101.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
OCT. 10	LP+EPPE	12	09	50.6	14.1	7.5	
	LP-IPPN	12	09	52.5	11.3	35.5	
	LP+ISE	12	16	35.6	15.9	61.5	
	LP-ISN	12	16	33.3	15.0	149.0	
	LP-ISZ	12	16	33.8	14.1	51.5	
	LP-PSE	12	17	31.9	15.0	90.5	
	LP+PSN	12	17	33.7	15.0	84.0	
	LP+PSZ	12	17	33.8	14.1	56.0	
	LP+SSE	12	22	11.3	15.9	64.5	
	LP-SSN	12	22	10.3	16.9	39.0	
	+EXE	12	32	08.7	1.3	1.1	
	+EXN	12	32	10.0	1.1	0.5	
	+EXZ	12	32	08.2	1.3	1.6	
	+EXE	13	14	21.1	0.8	0.4	
	+EXN	13	14	20.5	1.0	0.4	
	+EXZ	13	14	20.3	1.5	1.5	
	-EPE	16	42	16.0	1.0	1.0	
	-EPN	16	42	15.0	1.2	1.0	
	+EPZ	16	42	15.1	1.4	2.0	
	+EPE	21	21	36.1	1.2	0.5	
	-EPN	21	21	37.9	1.0	1.1	
	+IPZ	21	21	37.4	1.2	3.3	
	11	+EPE	02	16	02.4	1.4	0.6
		+EPN	02	16	03.2	1.4	0.9
		+EPZ	02	16	03.8	1.5	2.9
		+EXE	02	17	46.2	1.3	0.8
		EXN	02	17	45.3		
		-EXZ	02	17	45.3	1.8	2.5
		+EPE	12	03	29.1	1.4	0.6
		+EPN	12	03	26.8	1.2	0.6
		+EPZ	12	03	28.8	1.2	0.8
		-IPE	12	25	33.0	1.4	1.2
		+IPN	12	25	33.0	1.0	1.4
+IPZ		12	25	32.8	1.0	3.0	
12		+IPE	01	33	54.2	1.7	2.6
		-IPZ	01	33	53.8	1.4	5.0
		+EPE	05	30	37.5	1.1	0.8
	+EPN	05	30	36.1	1.0	1.0	
	+EPZ	05	30	37.9	1.1	2.5	
	+EPE	06	43	10.3	2.0	1.1	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 12	-EPN	06	43	12.1	1.5	1.0
	-EPZ	06	43	12.1	2.0	2.5
13	+EPN	21	32	03.9	0.8	0.7
	+EPZ	21	32	03.4	1.3	1.0
	LP+ESE	00	05	54.4	17.8	32.0
	LP+ESZ	00	05	56.3	16.9	18.0
	+EPN	00	47	52.4	1.7	1.2
	+IPZ	00	47	52.0	1.2	1.2
	LP+EPE	00	54	37.5	15.0	5.5
	LP-EPZ	00	54	39.4	10.3	4.0
	+EPN	21	31	41.9	1.2	0.8
	+IPZ	21	31	41.8	1.4	3.5
14	-IPN	05	08	43.2	1.9	2.0
	+IPZ	05	08	43.5	1.9	7.9
	LP+EXE	05	19	48.8	11.3	2.0
	LP+EXN	05	19	45.0	13.1	2.5
	LP+LRE	08	47	35.6	18.8	3.5
	LP+LRN	08	47	46.9	18.8	3.0
	LP+LRZ	08	47	37.5	20.6	2.5
	-IPN	12	41	51.7	1.3	2.3
	+IPZ	12	41	51.5	1.5	17.0
	+EPE	16	54	35.1	1.1	0.3
16	+IPZ	16	54	35.5	2.0	2.2
	EPE	19	24	38.9		
	+EPZ	19	24	37.9	1.1	0.7
	+EPE	02	42	50.0	1.2	0.6
	+EPN	02	42	49.9	1.6	0.8
	+EPZ	02	42	50.0	1.8	2.5
	+IPE	03	17	55.5	1.8	1.5
	+IPN	03	17	55.9	2.2	1.6
	+IPZ	03	17	55.9	2.2	6.6
	LP+ESE	13	35	56.3	13.1	2.0
	LP+ESN	13	35	56.3	11.3	3.0
	LP+EPZ	13	26	31.9	9.4	2.0
	+EPE	16	26	02.2	1.2	2.4
	-EPN	16	26	03.6	0.5	1.1
+IPZ	16	26	03.5	1.0	2.1	
+IPE	21	21	05.8	1.1	2.0	
+EPN	21	21	07.2	1.0	0.5	
+IPZ	21	21	05.7	1.8	4.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 16	+IPE	21	33	57.0	1.2	1.9
	+IPZ	21	33	56.8	1.3	4.1
17	+EPN	21	33	57.9	1.0	0.6
	+IPE	10	53	54.0	1.2	1.0
	EPN	10	53	54.5		
	+IPZ	10	53	54.0	1.3	2.5
	+IPE	17	38	34.0	2.0	18.2
	-IPN	17	38	34.0	1.8	14.0
	+IPZ	17	38	33.0	0.8	2.5
	-ESE	17	48	25.0	3.2	4.5
	+ESN	17	48	31.2	3.2	3.5
	+ESZ	17	48	25.0	4.5	3.5
	LP-EPE	17	38	37.5	13.1	4.0
	LP+EPN	17	38	37.5	13.1	2.5
	LP-IPZ	17	38	37.5	11.3	14.0
	LP-ISE	17	48	30.0	15.0	18.5
	LP-ISN	17	48	30.0	15.0	18.0
	LP+ESZ	17	48	30.0	9.4	8.5
	LP-PSE	17	49	11.3	13.1	20.0
	LP+PSN	17	49	10.3	13.1	22.0
	LP-SSE	17	53	48.8	18.8	14.5
	LP-SSN	17	53	48.8	13.1	17.5
LP-SSZ	17	53	48.8	11.3	8.0	
LP-LRE	18	06	33.8	23.4	89.0	
LP+LRN	18	07	05.6	20.6	88.0	
LP+ESE	21	30	50.6	13.1	3.0	
LP ESN	21	30	50.6			
18	+EPE	08	43	28.0	1.2	0.6
	+EPZ	08	43	28.0	1.2	2.0
	+EXE	09	19	16.0	1.1	1.5
	-EPN	09	19	36.2	0.7	1.5
	+EPZ	09	19	36.2	1.2	5.4
	+EPE	23	36	31.5	1.7	1.9
	-EPN	23	36	31.5	1.1	1.5
	-EPZ	23	36	31.1	1.4	3.6
19	-EPE	02	34	27.0	0.8	0.5
	+EPN	02	34	25.6	1.1	0.6
	+IPZ	02	34	25.1	1.7	2.3
	+EPE	21	40	08.8	1.5	1.5
	+IPZ	21	40	09.0	1.4	5.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 20	+EPE	08	38	12.0	1.1	0.5
	+EPZ	08	38	10.1	0.9	1.2
21	+IPE	05	06	31.8	0.8	2.0
	+EPN	05	06	31.8	0.8	1.2
22	IPZ	05	06	31.8		
	+IPE	18	04	50.5	1.0	4.0
	+IPN	18	04	50.6	1.0	1.8
	+IPZ	18	04	50.0	1.2	3.5
	+IXE	18	06	53.0	1.3	6.3
	+EXN	18	06	52.9	1.1	2.6
	-IXZ	18	06	50.9	1.1	1.1
	-IXE	18	07	20.4	1.2	17.5
	-IXN	18	07	20.1	1.2	8.0
	IXZ	18	07	20.2		
	-IXE	18	15	34.7	3.0	108.0
	IXN	18	15	34.5		
	-IXZ	18	15	33.1	2.0	10.0
	LP-ISE	18	15	35.6	12.2	70.5
	LP+ISN	18	15	35.6	11.3	25.0
	LP+ESZ	18	15	35.6	09.4	14.0
LP-SSE	18	19	18.8	13.1	26.5	
LP-SSN	18	19	24.4	12.2	21.0	
+EXE	18	35	21.8	1.5	1.2	
+EXZ	18	35	21.8	1.8	2.8	
23	-IPE	10	44	10.0	1.2	9.0
	+IPN	10	44	09.9	1.4	7.1
24	IPZ	10	44	09.9		
	-EPE	00	31	59.8	1.8	3.0
	+IPN	00	31	59.7	1.5	2.9
	+IPZ	00	31	59.1	1.8	4.0
	+EPE	18	51	43.5	1.2	0.5
	EPN	18	51	43.0		
	+IPZ	18	51	42.4	1.0	1.5
	+EXE	18	53	26.7	2.0	1.4
	+EXN	18	53	25.3	2.3	1.7
	+EXZ	18	53	24.3	1.2	1.8
	LP+EPE	18	58	22.5	14.1	3.0
	LP-EPN	18	58	21.6	15.0	3.0
LP-EPZ	18	58	21.6	10.3	3.0	
LP-ISE	19	09	16.9	16.9	18.5	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 24	LP+ISN	19	09	16.9	15.9	19.0
	LP-ISZ	19	09	18.8	15.0	23.0
25	+EPE	07	02	33.2	1.2	2.0
	+IPZ	07	02	33.0	1.2	4.5
	+EPE	17	00	09.8	1.4	0.9
	-EPN	17	00	09.7	0.9	0.5
	+EPZ	17	00	09.5	1.4	1.5
	LP+EXE	21	29	15.0	16.9	5.5
	LP-EXN	21	29	16.9	16.9	6.0
	+IPE	07	36	57.5	1.2	1.0
26	-IPN	07	36	58.0	0.9	1.0
	-IPZ	07	36	57.4	1.2	3.6
	+EPE	15	29	52.5	2.0	1.1
	+EPN	15	29	55.4	1.0	0.5
	-EPZ	15	29	55.9	1.0	1.1
	+EXE	15	31	06.6	1.3	1.8
	+EXN	15	31	07.1	1.8	1.4
	+EXZ	15	31	06.5	1.9	6.5
	+EPE	11	40	40.5	1.6	1.1
	+EPN	11	40	40.0	0.8	0.5
	+EPZ	11	40	40.9	1.4	2.5
	+EPN	12	40	45.8	0.7	0.6
27	+EPN	12	40	47.0	1.7	1.7
	-EPZ	12	40	47.1	1.7	2.5
	LP-ESE	12	48	41.3	15.0	2.0
	LP-ESN	12	48	45.0	13.1	2.0
	+EPE	23	26	07.7	1.4	1.1
	-EPN	23	26	07.8	1.0	1.3
	-EPZ	23	26	07.4	1.2	3.0
	-EPE	03	26	01.3	0.8	1.1
29	+EPZ	03	26	00.0	0.8	3.0
	-EPE	02	18	12.6	1.2	1.3
	+EPZ	02	18	12.2	1.3	1.3
	+IPE	20	28	35.6	0.9	1.2
	+EPN	20	28	36.1	1.2	1.0
	+IPZ	20	28	35.5	1.5	4.3
	+ISE	20	38	55.0	3.7	3.6
	+ESN	20	38	54.2	3.0	1.7
30	+EPE	01	38	33.5	1.2	0.6
	+EPN	01	38	33.0	1.0	0.6

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
OCT 30	+EPZ	01	38	33.4	1.7	2.5
	+EPE	02	02	48.5	1.5	0.8
31	-EPZ	02	02	48.5	2.3	3.5
	+IPE	06	37	12.2	1.0	1.7
	-IPN	06	37	12.0	1.3	1.7
	+IPZ	06	37	12.0	1.3	5.9
	+EPE	13	06	04.9	1.5	6.0
	+IPN	13	06	05.4	1.8	6.1
	+IPZ	13	06	04.5	3.0	12.8
	+EPE	16	38	05.9	1.5	1.3
	-IPN	16	38	05.9	1.3	1.7
	+IPZ	16	38	05.9	1.5	4.5
	-EPE	21	25	24.1	1.4	1.0
	+EPN	21	25	24.0	1.0	1.0
	+EPZ	21	25	23.8	1.2	1.5
	+EPE	22	39	10.1	1.0	0.5
	+IPN	22	39	09.9	0.7	0.7
	+IPZ	22	39	09.2	1.2	1.7
	-EPE	11	50	54.9	1.9	0.6
	-EPZ	11	50	55.0	1.9	1.6
NOV 01	+EPE	13	19	51.0	1.4	0.6
	+EPN	13	19	51.5	1.2	0.7
	+EPZ	13	19	49.5	1.3	0.7
	+IPE	04	24	02.1	1.2	1.7
	-EPN	04	24	02.2	0.8	0.5
	+IPZ	04	24	02.1	1.4	4.5
	+EPE	15	14	17.3	1.0	1.6
	-EPN	15	14	15.0	1.1	1.1
	+EPZ	15	14	17.5	1.2	3.5
	+IPE	20	40	08.1	1.0	3.9
	-EPN	20	40	08.3	1.0	0.8
	+IPZ	20	40	08.8	1.8	6.0
NOV 02	EPE	10	58	59.9		
	EPN	10	58	59.8		
	-EPZ	10	58	59.0	2.2	1.6
	LP+EPZ	10	59	01.9		
	LP-ESE	11	07	22.5	11.3	1.5
	LP-ESN	11	07	22.5	11.3	2.0
	LP-ESZ	11	07	22.5		
	LP+LRE	11	28	21.6	15.9	7.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
NOV 02	LP+LRN	11	28	22.5	15.9	12.5
03	EPN	11	59	17.7		
	-EPZ	11	59	17.2	1.5	2.0
04	+EXE	10	12	45.0	1.7	0.6
	+EXN	10	12	48.6	1.2	0.4
	-EXZ	10	12	45.7	1.7	1.5
	LP EPZ	10	12	48.8		
	+EXE	18	27	32.0	1.2	0.7
	-EXZ	18	27	31.2	1.3	1.1
05	+EPE	06	15	55.1	1.2	0.5
	+EPN	06	15	53.8	1.2	0.5
	+EPZ	06	15	55.2	1.9	2.0
	+EXE	15	04	07.0	1.0	0.6
	+EXZ	15	04	09.5	1.1	1.0
06	-EPE	02	59	15.6	0.8	1.2
	-EPN	02	59	16.9	0.7	0.4
	+IPZ	02	59	15.0	1.2	3.5
07	+IPE	23	10	19.9	1.2	3.5
	-IPN	23	10	19.9	1.2	1.5
	IPZ	23	10	19.8		
09	+EPE	14	40	40.4	1.5	1.1
	+EPN	14	40	40.0	1.5	0.4
	+EPZ	14	40	41.7	1.5	0.5
	-EPE	20	26	21.8	1.2	2.0
	+EPN	20	26	21.6	1.2	2.0
	-EPZ	20	26	21.5	1.5	5.9
	-IPE	22	19	39.0	1.1	2.2
	-IPN	22	19	39.0	1.2	3.5
	+IPZ	22	19	39.0	2.2	8.2
	+ESE	22	34	31.8	1.2	0.8
	+ESN	22	34	33.4	1.1	0.8
	+ESZ	22	34	32.2	1.2	0.7
10	+IPE	09	18	01.2	1.4	1.1
	+IPZ	09	18	01.0	1.3	2.0
	-EPE	09	25	38.9	1.2	2.0
	-IPZ	09	25	39.0	1.1	4.5
11	+EPE	07	38	19.7	0.9	1.1
	+EPN	07	38	20.2	0.6	1.0
	+EPZ	07	38	19.8	1.0	0.6
	-EPE	22	07	13.2	1.4	2.2

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
NOV 11	-EPN	22	07	13.9	1.6	1.0
	-IPZ	22	07	13.0	1.6	5.0
12	+EPE	19	16	38.5	1.2	1.4
	-EPN	19	16	38.7	1.1	0.9
	-EPZ	19	16	38.0	1.5	3.1
14	-IPE	10	12	16.2	1.2	10.8
	-IPN	10	12	16.0	1.2	2.1
	+IPZ	10	12	16.0	1.6	8.0
	+EXE	13	35	23.8	1.5	0.5
	+EXN	13	35	25.0	1.4	0.8
	+EXZ	13	35	23.5	2.2	1.1
	+EPE	13	41	16.8	1.2	0.6
	-EPN	13	41	16.8	1.0	1.0
	-IPZ	13	41	16.0	1.4	2.5
15	+EXE	03	09	07.8	0.7	0.6
	-EXZ	03	09	06.9	0.6	0.8
	-EXE	20	13	47.0	1.2	1.0
	+EXN	20	13	46.5	1.2	0.5
	+EXZ	20	13	47.6	1.2	0.4
16-17	NO RECORD					
17	-IPE	14	56	57.8	1.7	7.5
	-IPN	14	56	57.7	1.3	2.3
	IPZ	14	56	57.8		
	-EPE	17	39	19.9	1.4	1.5
	EPN	17	39	18.9		
18	+IPZ	17	39	19.2	1.2	3.0
	EPE	03	10	23.2		
	+EPN	03	10	21.4	1.0	0.3
	+EPZ	03	10	22.6	1.2	1.2
	LP+LRN	05	45	15.0	11.3	3.0
	LP-LRE	06	16	18.8	19.7	5.0
	LP+LRN	06	16	20.6	22.5	10.0
	LP-LRZ	06	16	13.1	22.5	5.0
	+EPE	10	29	26.2	1.6	1.1
	-EPZ	10	29	26.0	1.1	0.9
	LP-ESE	10	39	15.0	13.1	3.0
	LP-ESN	10	39	15.0	12.2	4.0
	LP+ESZ	10	39	13.1	11.3	2.0
	LP-LRE	10	54	39.4	19.7	23.0
	LP-LRN	10	54	39.4	19.7	11.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
NOV 19	-IPE	00	48	58.9	2.1	9.1	
	+EPN	00	48	59.3	1.2	3.0	
	+IPZ	00	48	58.6	2.4	9.0	
	-ESE	00	53	58.0	2.3	6.0	
	+ESN	00	53	57.0	2.0	5.1	
	-ESZ	00	53	57.8	2.8	4.1	
	+EPE	16	29	18.2	0.8	0.6	
	+EPN	16	29	18.0	0.8	0.6	
	+EPZ	16	29	18.0	1.1	2.1	
	20	EPE	19	50	54.2		
		+EPN	19	50	54.8	1.0	0.6
		-EPZ	19	50	56.0	1.0	1.1
	21	+EPE	11	54	01.9	1.0	0.9
EPN		11	54	02.2			
+EPZ		11	54	02.0	1.0	0.7	
+EPE		23	16	35.9	1.1	1.8	
+EPN		23	16	35.5	0.7	1.2	
22	+IPZ	23	16	35.0	1.0	1.7	
	-EPE	16	09	40.0	0.9	1.0	
	EPN	16	09	41.0			
	-EPZ	16	09	40.0	1.2	1.6	
	-ESE	16	20	04.0	2.2	4.0	
	+ESN	16	20	05.0	3.2	3.9	
	-FSZ	16	20	06.1	2.8	2.8	
	LP+ESE	16	20	05.6	11.3	8.0	
	LP+ESN	16	20	07.5	11.3	4.0	
	-EPE	21	35	41.8	1.2	1.5	
	+EPN	21	35	41.3	1.2	1.0	
	-IPZ	21	35	40.2	1.3	5.5	
23	-IPE	09	37	19.0	1.0	10.0	
	-IPN	09	37	19.0	1.1	2.0	
	IPZ	09	37	19.0			
	LP-IPE	09	37	20.6	13.1	35.0	
	LP-IPN	09	37	20.6	12.2	29.0	
	LP+IPZ	09	37	20.6	10.3	103.0	
	LP+PPZ	09	40	03.6	9.4	68.0	
	+EXE	09	46	15.2	3.2	31.0	
	+EXN	09	46	14.0	3.7	19.5	
	LP+ISE	09	46	24.4	15.9	110.5	
	LP+ISM	09	46	24.4	15.0	62.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
NOV 23	LP+ISZ	09	46	28.1	11.3	46.0
	LP-PPSE	09	47	24.4	11.3	63.0
	LP+PPSN	09	47	26.3	11.3	94.0
	LP+PPSZ	09	47	28.1	10.3	90.0
	LP-SSE	09	51	11.3	35.6	85.0
	LP+SSN	09	51	07.5	15.0	86.0
	LP-SSZ	09	51	07.5	10.3	53.0
	-EPE	11	19	33.4	1.2	1.6
	-EPN	11	19	33.4	1.0	1.0
	+IPZ	11	19	33.4	1.4	4.8
	-IPE	11	55	10.7	1.0	1.8
	+EPN	11	55	10.8	1.1	1.0
	+IPZ	11	55	10.7	1.0	3.7
	+IPE	12	09	03.5	1.0	1.1
	-IPN	12	09	04.0	1.0	0.6
	+IPZ	12	09	03.0	1.1	2.9
	-IPE	13	15	54.4	0.8	1.4
	-EPN	13	15	54.2	0.8	1.0
	+IPZ	13	15	54.1	1.0	4.2
	+EPE	13	49	39.0	0.8	0.3
	EPN	13	49	37.0		
	+EPZ	13	49	38.5	0.8	0.6
	+EXE	17	15	11.0	1.2	0.6
+EPZ	17	15	09.0	1.6	2.6	
+EPE	18	30	40.9	0.9	1.1	
+EPN	18	30	39.8	1.2	0.6	
-IPE	22	02	51.9	0.9	2.0	
-EPN	22	02	51.3	0.8	0.7	
+IPZ	22	02	51.9	1.0	4.1	
+IPE	22	08	13.3	1.0	1.9	
+EPN	22	08	13.3	0.9	0.7	
+IPZ	22	08	13.0	1.1	3.6	
-EPE	23	38	25.6	1.1	2.0	
+IPN	23	38	25.8	1.0	1.2	
+IPZ	23	38	25.5	1.2	5.0	
24	-IPE	02	08	20.8	1.5	4.7
	-IPN	02	08	20.9	1.2	3.0
	IPZ	02	08	20.8		
	-IPE	02	13	20.5	1.0	2.6
	+EPN	02	13	20.8	1.0	1.3

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
NOV 24	IPZ	02	13	21.4			
	-EPE	02	25	58.0	1.1	1.5	
	-EPN	02	25	59.4	1.2	1.0	
	-EPZ	02	25	58.9	1.8	7.0	
	+EPE	03	30	51.0	1.4	1.7	
	+EPN	03	30	50.9	1.0	0.9	
	-IPZ	03	30	51.0	1.3	3.1	
	-IPE	16	31	07.1	1.1	4.5	
	-IPN	18	31	07.0	1.0	2.5	
	IPZ	18	31	07.0			
	-IPE	18	53	31.8	1.4	2.6	
	+EPN	18	53	32.0	2.0	2.1	
	+IPZ	18	53	31.7	2.0	5.0	
	-EPE	22	30	46.3	1.0	1.2	
	-EPN	22	30	46.0	0.6	0.6	
	+EPZ	22	30	46.1	1.1	3.0	
	+EPE	23	11	43.5	1.6	1.6	
	+EPN	23	11	44.0	1.2	0.8	
	+EPZ	23	11	43.1	1.5	2.2	
	25	+EPE	00	15	22.1	1.2	2.2
		+EPN	00	15	22.0	1.0	1.2
		+EPZ	00	15	21.8	1.1	1.5
		-IPE	03	35	25.6	0.9	2.6
		-IPN	03	35	25.6	1.0	1.5
IPZ		03	35	25.6			
+EPE		03	58	03.8	0.8	1.1	
+EPZ		03	58	03.5	1.2	2.0	
26		-IPE	00	54	59.0	1.1	1.4
		+EPN	00	54	59.3	1.2	0.6
		+IPZ	00	54	59.4	1.2	3.5
		+EPE	23	27	47.3	1.0	1.0
27	-EPZ	23	27	47.5	1.0	1.0	
	-EPE	09	46	22.0	1.2	7.7	
	IPZ	09	46	22.0			
	-EPE	12	52	01.2	1.0	1.9	
	EPN	12	51	59.8			
	IPZ	12	51	59.7			
	+EPE	17	38	39.9	1.1	0.7	
	+EPN	17	38	40.0	1.1	0.6	
	-EPZ	17	38	38.0	1.0	0.8	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
NOV 27	-EPE	20	25	52.8	1.0	1.8	
	+EPN	20	25	52.8	0.8	1.0	
28	+EPZ	20	25	52.5	1.0	3.5	
	-IPE	00	28	15.8	1.2	3.1	
	-EPN	00	28	15.8	1.1	1.8	
	+IPZ	00	28	15.7	1.0	8.2	
	-IPE	04	30	23.0	1.2	2.2	
	+EPN	04	30	23.3	0.7	1.0	
	+IPZ	04	30	23.0	2.1	5.3	
	-IPE	05	08	20.0	0.9	1.1	
	+IPN	05	08	20.0	1.0	0.7	
	+IPZ	05	08	19.9	1.0	2.5	
	-EPE	05	50	19.2	1.1	1.6	
	-EPN	05	50	19.4	0.8	0.6	
	+IPZ	05	50	17.8	1.0	1.5	
	-EPE	06	42	19.7	0.6	1.6	
	-EPN	06	42	19.7	0.6	1.2	
	+IPZ	06	42	19.8	1.1	3.5	
	LP+ISE	06	51	15.0	12.2	6.0	
	LP-ISN	06	51	15.0	08.4	5.5	
	LP+ESZ	06	51	15.9	09.4	3.0	
	29	+EPE	18	51	02.2	1.2	1.5
-EPN		18	51	03.2	0.8	1.0	
-EPZ		18	51	02.8	1.0	3.5	
+EPE		19	29	10.6	1.0	0.5	
-EPN		19	29	09.4	1.0	1.0	
+EPZ		19	29	09.0	1.4	2.6	
+EPE		08	59	30.2	1.0	1.0	
+IPZ		08	59	30.0	1.0	2.0	
30		+EPE	10	37	01.0	2.2	6.5
		+EXE	10	37	16.5	2.0	9.8
DEC 01		+EPE	00	11	58.3	0.9	1.1
		+EPN	00	11	57.7	0.9	1.9
		+EPZ	00	11	58.2	1.1	4.6
		+EPE	08	51	37.3	1.0	1.0
		+IPZ	08	51	37.1	1.0	1.0
		+EPE	23	49	59.0	1.7	1.2
		+EPZ	23	49	59.0	1.7	2.1
		LP EPN	23	51	16.9		
	LP EPZ	23	51	18.8			

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
DEC 01	LP+EXN	23	55	37.5	13.1	2.5
	LP+EXZ	23	55	39.4	13.3	2.5
02	LP+LRE	00	02	05.6	16.9	7.0
	LP-LRN	00	02	07.5	16.9	5.0
03	+IPE	04	26	52.3	1.2	1.6
	+IPZ	04	26	52.0	1.3	3.7
	LP+LRE	05	03	37.5	20.6	4.0
	-EPE	13	16	53.6	1.6	1.3
	-EPZ	13	16	53.8	1.5	3.0
	+EPN	01	37	14.2	1.2	0.6
	+EPZ	01	37	14.0	1.0	0.6
	+EPE	13	53	38.1	1.0	0.5
	+IPN	13	53	40.0	1.2	2.0
	-IPZ	13	53	38.5	1.4	2.5
04	+EPE	01	03	31.3	2.1	2.0
	-EPN	01	03	31.1	1.2	1.0
	-EPZ	01	03	31.1	2.2	3.9
	-IPE	06	03	01.1	1.2	2.9
	+IPN	06	03	00.9	1.2	2.6
	-IPZ	06	02	59.8	1.3	3.5
	LP EPE	06	03	05.6		
	LP EPZ	06	03	07.5		
	+EPE	06	12	30.9	1.2	0.8
	+EPN	06	12	30.2	1.1	0.7
05	+EPZ	06	12	29.5	1.2	2.3
	LP+ESE	06	13	26.3	15.0	6.0
	LP+LRE	06	39	45.0	18.8	10.5
	-EPE	11	43	49.8	1.2	0.7
	-EPZ	11	43	51.9	1.0	3.0
	LP+ESE	13	36	46.9	14.1	5.0
	+EPE	14	35	48.8	1.6	1.2
	-EPN	14	35	49.0	1.0	0.8
	-EPZ	14	35	48.4	0.8	1.0
	+EXE	14	37	02.0	1.2	1.0
04	+EXN	14	37	01.6	1.2	0.9
	-EXZ	14	37	01.3	2.2	4.3
	-EPE	14	26	19.4	1.6	1.7
	+EPN	14	26	20.3	1.0	1.1
	+IPZ	14	26	18.7	1.6	3.7
	LP+LRE	15	02	03.6	17.8	06.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
DEC 05	+EPE	15	54	20.6	1.2	2.7
	-EPN	15	54	20.2	1.0	0.8
06	+EPZ	15	54	20.2	1.3	7.0
	-ESE	16	03	13.3	1.8	2.1
	+ESN	16	03	12.9	1.7	1.5
	-ESZ	16	03	11.9	1.2	1.0
	+IPE	04	43	56.9	1.2	1.6
	-IPZ	04	43	56.2	1.5	3.9
	+EPE	13	19	51.0	1.8	0.7
	+EPN	13	19	52.0	1.8	1.0
	+EPZ	13	19	51.2	1.2	1.3
	-IPE	17	15	59.0	1.7	9.1
07	-EPN	17	15	58.9	1.5	3.4
	+IPZ	17	15	59.0	2.2	10.2
	EPE	18	04	17.2		
	-IPZ	18	04	16.7	1.3	3.0
	+EXE	18	13	53.0	2.7	1.9
	+EXN	18	13	53.2	2.6	2.4
	+EXZ	18	13	53.7	3.7	2.0
	+IPE	00	43	30.6	0.8	3.5
	+IPN	00	43	30.6	0.9	1.9
	-IPZ	00	43	30.5	1.3	8.0
08	+EPE	03	33	35.2	1.2	1.0
	-EPN	03	33	36.0	1.0	0.9
	+IPZ	03	33	35.0	1.2	2.1
	+EPE	06	12	13.9	1.2	0.9
	-EPN	06	12	13.8	1.0	0.9
	+EPZ	06	12	13.7	1.5	2.6
	-IPE	06	27	44.2	1.1	2.1
	+EPN	06	27	44.1	1.0	1.5
	+IPZ	06	27	43.5	1.6	5.0
	LP+EXE	06	38	11.3	14.1	07.0
09	LP+LRE	07	04	24.4	18.8	09.5
	+EPE	11	32	12.0	1.1	1.2
	+EPN	11	32	12.6	1.0	2.6
	+EPZ	11	32	12.2	1.1	2.5
	-EXE	11	35	16.0	0.5	3.0
	+EXN	11	35	15.0	1.0	2.0
	+EXZ	11	35	15.0	1.2	2.0
	+EPE	05	14	05.6	1.8	2.0

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
DEC 09	-EPN	05	14	05.8	1.0	1.5	
	+EPZ	05	14	04.9	1.3	6.4	
	+EPE	06	48	22.0	1.2	1.5	
	+EPZ	06	48	22.5	1.0	1.1	
	+IPE	14	49	58.0	1.0	5.5	
	+EPN	14	49	58.1	1.0	0.7	
	+IPZ	14	49	58.0	1.2	8.0	
	+IPE	21	55	40.3	1.0	2.1	
	+IPN	21	55	40.0	0.8	1.0	
	+IPZ	21	55	40.0	1.0	4.5	
	10	+EPE	07	22	46.3	1.2	1.8
		+EPN	07	22	46.7	1.1	1.5
		+IPZ	07	22	46.0	1.8	5.5
		+EPE	08	47	51.2	1.3	1.5
+EPN		08	47	51.2	1.0	0.8	
10-12	+EPZ	08	47	50.7	1.4	5.0	
	NO RECORD						
12	-EPE	20	13	05.9	1.0	1.0	
	-EPN	20	13	04.8	1.2	1.4	
	+EPZ	20	13	05.0	1.8	3.5	
	LP+ESE	20	20	43.1	15.0	3.5	
13	LP+LRE	20	34	33.8	15.9	7.0	
	-EPE	01	32	55.0	1.7	1.5	
	-EPZ	01	32	55.5	1.0	1.0	
	LP+LRE	02	10	28.1	20.6	29.5	
	-EPE	10	17	08.0	1.2	2.5	
	+EPN	10	17	08.6	1.2	1.7	
14	+IPZ	10	17	08.1	1.1	7.0	
	-IPE	03	07	19.5	1.2	5.5	
	-IPN	03	07	19.6	1.0	10.1	
	IPZ	03	07	19.4			
	-EPE	04	53	26.8	1.1	0.6	
	-EPN	04	53	26.7	1.8	1.5	
	-EPZ	04	53	25.9	2.3	2.2	
	+IPE	15	49	39.6	1.2	4.5	
	-IPN	15	49	39.2	1.0	4.5	
	+IPZ	15	49	39.0	2.0	17.8	
	-IPE	19	04	08.4	1.1	1.8	
	+IPN	19	04	08.5	1.0	1.5	
-IPZ	19	04	08.6	1.0	7.2		

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
DEC 14	+ESE	19	06	25.1	1.1	1.5
	-ESN	19	06	25.0	1.2	0.8
15	+ESZ	19	06	25.3	1.3	2.0
	+EPE	23	31	30.8	0.8	0.5
	+EPN	23	31	29.5	1.1	1.4
	+EPZ	23	31	29.3	1.2	3.2
16	+EPE	17	20	30.1	1.0	0.7
	+EPZ	17	20	32.4	1.0	1.0
17	+EPE	14	48	09.9	1.0	1.7
	+EPZ	14	48	09.9	1.0	1.0
	-EPE	16	35	18.7	1.8	2.2
	+IPN	16	35	18.7	1.0	1.4
18	+IPZ	16	35	18.0	1.5	4.7
	+EPE	17	47	54.1	1.3	1.7
	+EPN	17	47	53.0	1.4	1.0
	-EPZ	17	47	53.4	1.3	3.6
	+EPE	00	10	18.8	1.2	0.7
	+EPN	00	10	17.7	1.2	0.8
	+EPZ	00	10	17.4	1.8	2.0
	-EPE	07	17	11.3	1.1	1.5
	EPN	07	17	12.0		
	-IPZ	07	17	11.2	1.2	7.6
	+EPE	17	55	34.0	0.8	0.6
	+EPN	17	55	36.4	1.2	1.5
19	+EPZ	17	55	33.1	2.2	1.6
	+EPE	22	36	30.6	0.9	0.6
	+EPZ	22	36	31.0	0.9	0.6
	+IPE	09	09	49.7	2.0	1.4
20	+IPZ	09	09	49.5	1.3	3.5
	+EPE	11	43	33.8	1.8	1.0
	+EPZ	11	43	33.9	1.2	2.3
	+EPE	13	57	01.5	1.3	0.8
21	-EPZ	13	57	02.6	1.5	2.4
	-EPE	01	19	17.7	1.1	0.6
	+IPZ	01	19	16.9	2.0	2.1
	+EXE	01	20	34.7	1.3	8.5
	+EXN	01	20	36.0	1.0	2.0
	+EXZ	01	20	35.0	3.0	14.1
	LP+EPE	01	20	39.4	16.9	2.0
	LP-IPZ	01	20	37.5	11.3	7.5

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)	
		H	M	S			
DEC 21	LP-ESE	01	30	16.9	16.9	7.0	
	LP+ESZ	01	30	15.0	9.4	6.0	
	-IPE	03	58	21.0	1.0	8.5	
	-IPN	03	58	21.0	1.0	5.0	
	IPZ	03	58	21.0			
	+EPE	16	59	16.0	1.4	1.2	
	-EPN	16	59	16.2	0.7	0.6	
	+EPZ	16	59	15.1	1.1	2.0	
	+EPE	18	19	01.3	0.7	1.0	
	+EPZ	18	19	01.3	0.9	2.0	
	22	+EPE	02	12	20.2	1.7	1.2
		+EPZ	02	12	22.2	1.3	1.6
		-EPE	13	36	45.7	1.2	1.5
		+EPN	13	36	45.0	2.0	1.6
23	+EPZ	13	36	44.6	1.9	4.5	
	+IPE	02	36	20.0	1.0	1.9	
	+EPN	02	36	19.9	1.1	1.0	
	+IPZ	02	36	19.5	1.3	3.3	
	+EXE	21	24	43.7	1.4	1.8	
	-EXN	21	24	43.8	1.5	1.8	
	+EXZ	21	24	42.3	2.2	3.0	
	EPE	22	19	33.9			
+EPZ	22	19	34.2	1.3	1.7		
+EXE	22	20	19.8	1.2	1.1		
+EXZ	22	20	19.4	1.3	2.0		
24-25	NO RECORD						
26	+EPE	06	57	56.7	0.6	0.5	
	+EPZ	06	57	56.5	1.7	2.2	
	-IPE	15	10	27.9	0.7	2.0	
	+IPN	15	10	27.8	0.8	3.0	
	+IPZ	15	10	27.8	0.8	3.5	
27	+EPE	01	40	13.7	1.9	2.2	
	-EPN	01	40	14.0	0.9	1.0	
	-EPZ	01	40	13.0	1.8	3.0	
	+IPE	11	50	18.0	1.1	1.5	
	-IPN	11	50	18.0	1.2	1.8	
	+IPZ	11	50	18.0	1.0	7.0	
	-ESE	11	52	24.2	1.2	1.1	
	+ESN	11	52	25.3	1.2	1.0	
	-ESZ	11	52	23.1	1.3	3.0	

DATE	PHASE	ARRIVAL TIME			PERIOD (S)	AMP (MM)
		H	M	S		
DEC 28	-IPE	02	58	15.0	2.0	1.5
	+IPN	02	58	14.0	2.2	2.5
	+IPZ	02	58	14.0	2.5	11.4
	LP EPN	02	58	15.0		
	LP-EPZ	02	58	16.9	9.4	5.5
	-EXE	03	01	33.7	1.4	0.9
	-EXN	03	01	33.0	1.8	1.2
	+EXZ	03	01	32.4	2.0	2.5
	LP+ISE	03	08	52.5	16.9	18.5
	LP+ESN	03	08	48.8	22.5	8.0
	LP+PSN	03	09	56.3	15.0	10.0
	LP-LRN	03	37	30.0	16.9	52.0
	LP-LRZ	03	37	15.0	16.9	39.0
	29	+EPE	00	05	41.8	1.3
+EPN		00	05	40.5	1.1	1.2
30	-EPZ	00	05	42.0	0.9	1.0
	-IPE	10	51	27.1	1.0	3.0
	+EPN	10	51	27.0	1.6	2.0
	+IPZ	10	51	26.0	1.6	8.0
	-EPE	14	10	18.0	0.6	1.0
	EPN	14	10	17.0		
	+EPZ	14	10	16.3	1.0	1.5
	+EPE	23	47	25.0	1.0	1.5
	-EPN	23	47	25.8	1.0	0.6
	+EPZ	23	47	25.0	1.0	0.6
31	EPE	08	05	27.0		
	EPN	08	05	27.0		
	+IPZ	08	05	26.3	1.0	3.0
	LP+IPE	08	15	37.5	13.1	9.0
	LP-IPN	08	15	37.5	10.3	9.0