

Toronto, Canada.

SEISMOLOGICAL BULLETIN.

LATITUDE
43° 40' 0.8" N.

LONGITUDE
5h 17m 35.6s W.

HEIGHT
373 feet above sea level.

SUBSOIL
Sand and Clay.

Apparatus: Milne horizontal pendulum, North.

Time: G. M. T., midnight to midnight.

1 μ = 0.45

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
January.		S.M.S.			MM			
1st			Isolated micros during				early morning.	
2nd	e	7 31 42						
	L	7 55 18						
	L	8 00 42						
	L	8 03 36						
	M	8 04 18			0.2			
	F	8 06 54						
3rd.	eL	21 44 24						
	M	21 45 06			0.2			
	F	21 47 18						
6th	L	13 06 30						
	eL	13 09 48						
	eL	13 15 54						
	M	13 17 18			0.3			
	F	14 15 30						
7th	L	2 59 24						
	eL	2 06 18						
	M	2 08 18			0.3		Small micros going on all morning.	
	eL	2 15 30						
	F	2 26 18						
7th	L	3 37 30			0.1			
7th	L	4 11 30						
	M	4 17 00			0.3			
	eL	4 20 48						
	eL	4 40 18						
	M	4 42 18			0.3		Slow isolated waves	
	eL	4 52 00						
	F	5 03 54						
8th	LS	13 13 18						
	e	13 20 00						
	eL	13 35 18						
	eL	13 27 30						
	M	13 30 00			0.4			
	eL	13 39 24						
	F	13 58 06?						
9th	eL	14 55 06						
	M	14 58 24			0.5			
	F	Micros					Micros 24h21m54s 14h35m00s	

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Apparatus: Milne horizontal pendulum, North.

Time: G. M. T., midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
January (contin.)					III			
15th	L	13 10 36						
	F	13 14 54			0.1			Small micros. going on.
19th.	IL	15 30 36						
	M	15 32 06			0.2			
	eL	15 40 54						
	eL	15 51 30						
	F	Micros						
20th	P	21 06 24						
	S	21 13 06						
	e	21 18 06						
	eL	21 19 42						
	eL	21 22 12						
	M	21 24 06			0.3			
	F	21 52 54						
30th.		Micros mask any eq. record from 14:08 to 14:27 when Victoria recorded small disturbance.						
31st.		Heavy micros began at 0h52m06s. continuing all day.						

Indem.
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Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
FEBRUARY.		H. M. S.			MM.			
4th.	iP	8 29 24						
	iS	8 34 48						Well defined.
	iS?	8 35 42						
	iL	8 39 48						Isthmus of
	iL	8 41 18						Tehuantepec.
	M	8 42 06			7.0		3610	
	eL	8 54 24						
	P	10 47 18						
6th.	iL	5 08 00						Early phases
	eL	5 15 36						masked by
	M	5 17 42			0.4			micros.
	F	Micros.						
10th.	L	?15 39 00			0.2			Micros going on.
11th.	e	0 19 12?						
	e	0 24 36?						
	L	0 49 12						
	eL	0 57 12						Marked micros
	M	1 02 42			0.8			render early
	iL	?1 15 48						phases doubtful.
	F	Micros.						
11th.	L	17 50 30						
	M	17 51 00			0.3			
	F	Micros.						
14th.	e	?1 54 00						
	eL	?2 00 30						
	eL	?2 15 30			?0.3			Heavy micros
								going on.
19th.	L?	15 50 54						
	eL	15 56 48						
	M	16 04 30			0.3			Micros going
	F	Micros.						on.

No.

1921.

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Apparatus: Milne horizontal pendulum, North.

Time: G. M. T., midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
		H.M.S.			MM			
19th.	L	18 52 54					Heavy micros going on which masked early phases.	
	eL	18 57 36						
	L	19 11 30						
	eL	19 25 00						
	eL	19 29 48						
	M	19 35 24			1.3			
	L?	20 30 06						
	F	Micros.						
21st.	L	11 58 36						
		to						
		12 03 48			0.2			
21st.	e	15 56 12						
		to						
		15 59 12			0.1			
21st.	e	16 08 00						
	iL	16 15 42						
	M	16 16 24			0.7			
21st.	L	16 25 12						
		to						
		16 41 36			0.3			
21st.	S?	19 40 54						
	iL	19 45 18						
	M	19 45 36			0.5			
	F?	19 52 36						
27th.	S?	18 41 48?					P possibly not recorded.	
	S?	18 42 48						
	SR?	18 48 24						
	e	18 50 36						
	i	18 53 42						
	iSR	18 57 48						
	eL	19 11 12						
	eL	19 17 42						
	iL	19 18 36						
	M	19 24 42			4.0			
	eL	20 43 00						
	eL	20 47 18						
	eL	20 56 24						
	eL _P	20 59 06			0.4			
		Period	18 seconds.					Increased movement.
							Pillar inclination 1 MM=0.45	

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Time: G. M. T., midnight to midnight. $1 \text{ MI} = 0.45$

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
MARCH		H.B.S.			MI			
1st.	L	7 38 06						
	M	7 49 30			0.2			
	F	8 03 42						
3rd.	L	3 30 54						
	L	3 38 00						
	L	3 48 24			0.3			
	L	3 56 30						
	F	Micros.						
3rd.	L	9 43 06						
	M	9 47 54			0.2			
	F	10 13 48						
5th	L	7 29 18						
	eL	7 31 42			0.2			
	F	7 8 00						
6th	P	7 31 36						
	S	7 36 30						
	iL	7 41 36						
	eL	7 42 18			1.5		Alaska	
	iL	7 43 36						
	L	8 00 54						
	eL	8 03 42						
	F	8 43 36						
10th	e	20 44 18						
	L	21 13 42						
	L	21 39 48			0.1			
	F	Micros.						
12th	S	10 44 12						
	eL	10 47 42						
	iL	10 50 30						
	M	10 52 30			1.8			
	F	11 55 06						
16th.	eL	12 45 54						
	M	12 49 06						
		to						
		12 51 06			0.3			
	P?	13 05 00						
21st.	L	4 21 24						
	eL	4 24 18						
	eL	4 33 12						
	M	4 36 24			0.3			
	F	4 58 30						

P not recorded,
possibly N.
Ecuador.

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Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
MARCH (continued)		H.M.S.			MM.			
21st.	L	6 59 12 to 7 08 42			0.05			
22nd	L	13 08 00 to 13 17 12						
	M.	13 19 42			0.3	-		May not be seismic.
	F	Micros.						
24th.	e?	10 07 42						
	e	10 17 48						
	eL	10 22 30						
	M	10 24 48			0.3			
	eL	10 29 36						
	eL	10 32 24						
	F?	11 11 12						
24th	S?	15 02 42						
	L	15 04 48						
	eL	15 17 36						
	iL	15 21 12						
	iL	15 25 54						
	M	15 26 54			2.0			Early phases interfered with from local causes.
	eL	15 28 06						
	F	16 23 42						
25th.	L	0 46 06						
	eL	0 49 18						
	M	0 52 18			1.0			
	F	1 40 12						
28th.	P	7 55 42						
	eP	7 57 18						
	i	8 00 00						
	S	8 01 18						
	i	8 02 36						
	L	8 05 48						
	M	8 08 06			5.0			
	eL	9 02 24				3700		Quake reported from Nicaragua.
	F	10 19 12						
29th	eL	22 56 30						
	eL	23 02 36						
	M	23 03 12			0.3			
	F?	23 18 42						

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Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
MARCH (Continued)		H.M.S.			MM			
29th	Lp	23 22 00						
	Lp	23 33 00			0.1		Doubtful as to being seismic.	
	F	23 41 12						
30th	e?	15 18 24						
	i?	15 23 36						
	i	15 29 24						
	eL	15 34 54						
	M	15 36 24			0.2			
	eL	15 41 54						
30th	eL	16 19 18						
	eL	16 22 36						
	M	16 24 36			0.3			
	eL	16 42 48						
	F	17 07 24						

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1 MM = 0.45

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
APRIL		H.M.S.			MM.			
1st.	e	5 8 12						
	e	5 16 24						
	L	5 19 30						
	eL	5 23 30						
	eL	5 30 30						
	eL	5 35 24						
	M	5 36 24			0.5			
	F	6 19 30						
1st.	e	12 53 12						
	o	13 01 00						
	L	13 03 06						
	eL	13 07 30						
	M	13 10 42			0.4			
	eL	13 27 36						
	M2	13 30 18			0.3			
	F	13 46 12						
2nd.	e	10 24 24						
	iL	10 39 06						
	M	10 48 12			0.2			
	eL	10 51 00						
	F	11 17 06						
3rd.	eL	3 02 48						
	M	3 03 48			0.2			
	F	3 17 42						
10th.	e	13 56 12						
	iL	13 59 54						
	M	14 00 56			2.3			
	F	14 28 48						
12th.	iL	7 48 36						
	M	7 49 00			0.3			
	iL	7 51 18						
	F	8 18 36						
20th.	L	19 00 42						
	eL	19 04 00						
	M	19 06 00			0.3			
	F	19 25 06						
22nd.	eL	7 25 54						
	M	7 27 42			0.3			
	eL	7 33 30						
	L	7 39 12						
	F	8 18 48						
25th.	L	18 33 36						
	eL	18 36 18						
	M	18 37 48			0.6			
	eL	18 47 18						
	F	19 16 06						

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Period 18 secs.

Time: G. M. T., midnight to midnight.

1 MM=0.45

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
MAY.		H.M.S.			MM.			
1st.	P ^{or PR}	5 47 12						
	S	5 51 48					P phase may be PR.	
	1L	5 59 48						
	eL	6 02 48						
	M	6 06 48			2.0			
	eL	6 41 00						
	eL	6 43 00						
	F	7 02 12						
12th.	e	4 40 00?						
	L	4 44 00						
	eL	4 53.24						
	M	4 55 18			0.3			
	F	5 24 24						
12th	L	5 55 12						
		to						
		6 05 00			0.05			
14th.	eL	13 29 24						
	M	13 33 30			0.2			
	F	-						
14th.	e	20 45 12						
	L	20 48 24						
	M	20 50 00			0.2			
	1L	20 54 12						
	F	Merged into next quake.						
14th.	L	21 16 24						
	eL	21 21 00						
	M	21 25 18			0.8			
	eL	21 27 18						
	F	-						
14th.	e	22 22 12						
	M	22 40 54			0.2			
	F	23 03 24						
16th.	eL	15 55 42						
	eL	16 15 54						
	eL	16 21 06						
	M	16 23 54			0.3			
	L?	17 01 24?						
	F	17 05 54?						

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Time: G. M. T., midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
		H. M. S.			MM.			
20th.	L	1 26 12						
	eL	1 27 24						
	M	1 28 18			0.3		Times unre-	
	F	-					liable, no cut-	
							off.	
21st.	L	9 21 54						
	L	9 49 36						
	eL	10 03 24			0.3		" " "	
	M	10 05 12						
	eL	10 22 06						
	L	11 31 54						
	F	Micros.						
21st.	e	22 48 48					Times doubtful	
	e	22 55 30					no cut-off.	
	eL	23 05 30					Micros going	
	M	23 12 48			0.6		on.	
	eL	23 15 00						
	F	Micros						
28th.	L	20 14 54						
	F	20 16 54			0.1			
28th.	L	21 11 30						
	M	21 12 06			0.4			
	L	21 26 24						
	F	21 36 30						

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1.00 = 0.45

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
JUNE		H.M.S.			0.1			
4th.	L	1 22 36			0.1			
	M	1 22 48						
	F	Micros						
14th.	M	9 24 54			0.2		May not be seismic.	
	F	9 28 24						
17th.	L	10 30 54			0.1			
	M	10 31 06						
	F	10 55 54						
25th.	e?	2 17 00						
	eL	2 24 00						
	eL	2 26 24						
	M	2 27 18			0.2		Micros going on previous to E.	
	F	Micros.						
28th.	e	14 37 00						
	e	14 40 00						
	L	14 54 00						
	L	15 04 48			-		Heavy micros or spider affected readings	
30th.	F	2 15 54						
	S	2 20 42						
	il	2 28 30						
	M	2 28 54			0.4	3070		
	F	-						

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Apparatus: Milne horizontal pendulum, North.

Time: G. M. T., midnight to midnight. 1 MM = 0.45"

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
JULY.		H. M. S.						
3rd.	L	76 02 42						
	M	76 03 24			0.1			
	P	76 11 48						
4th	L	79 47 00			0.05			
	P	-						
7th	L	711 33 42						Heavy micros going on.
	L	711 38 06			-			
13th	e?	11 11 42						
	L	11 22 36			0.1			Micros going on
	L	11 38 06						
13th	L	13 36 24						
	L	13 45 48			0.3			Micros going on.
	L	13 54 42						
25th	L	19 09 24						
	eL	19 16 54			0.2			Micros going on.
	L	19 37 36						
25th	L	19 59 12						
	M	19 59 30			0.3			
	iL	20 17 54						
29th	e?	1 04 18						
	i	1 18 00						
	e	1 22 18						
	i	1 24 00						
	eL	1 26 42						
	M	1 30 48			0.4			
	eL	1 38 30						
	eL	1 47 30						
	P	1 51 00						
31st	e	10 22 30						
	e	10 32 54						
	L	10 52 36						
	eL	10 56 30						
	M	11 03 00			0.5			Faint trace.
	P	11 12 36						

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Time: G. M. T., midnight to midnight.

Period 18 seconds
1 MM=0.45

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
AUGUST		H.M.S.			MM			
14th.	E	14 14 18						
	eL	14 17 48			0.2			
	eL	14 27 18						
19th	eL	8 41 18						
	M	8 42 00			0.5			
	P	9 02 00						
23rd.	P	20 24 18						
	S	20 29 42						
	iL	20 34 06						
	iL	20 39 12						
	M	20 41 06			2.0	3610	Time of P doubtful, inspect- ing instrument	
	eL	20 58 24						
	P	21 56 18						
SEPTEMBER								
5th	e	20 27 24						
	L	20 34 36						
	iL	20 40 12						
	eL	20 42 18						
	iL	20 50 36						
	M	20 50 54			0.9			
	P	21 24 36						
8th		Quake missed, clock stopped.						
11th.	i	4 21 54						
	i	4 25 06						
	e	4 28 54						
	e	4 35 24						
	i	4 38 42						
	L	4 40 30						
	iL	4 53 12						
	eL	5 02 42						
	eL	5 21 12						
	M	5 55 12			3.2		Difficult seismogram to analyse.	
	eL	6 20 36						
	L	6 41 00						
	eL	6 59 00						
	P	7 18 48						
13th.		Quake lost, clock stopped.						

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Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
Sept. (contin)		H.M.S.			MM.			
19th.	eL	4 39 48						
	M	4 43 48			0.6			
	eL	4 50 18						
	M ₂	4 53 54			0.5			
	F	5 13 24						
19th	P?	23 41 36?						
	eS?	23 51 00						
	eL	0 15 24						
	M	0 20 48			1.8			
	L	0 40 54						
	F	1 10 48						
20th	L	1 39 00			0.1		May be repeat.	
	F	1 51 00						
20th	eL	19 50 54			0.2			
	F	20 02 18						
21st.	L?	12 13 18						
	eL	12 18 48						
	M	12 19 18			0.2			
	F	-						
23rd.	L	2 52 54			0.05			
	F	3 00 54						

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SEISMOLOGICAL BULLETIN

LATITUDE
43° 47' 0.8" N.

LONGITUDE
5h 17m 35.6s W.

HEIGHT
373 feet above sea level.

SUBSOIL
Sand and Clay.

Apparatus: Milne horizontal pendulum, North.

Time: G. M. T. MIDNIGHT TO MIDNIGHT.

From... November 13th. To.....

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
		R.M.S.			1.0			
13th	iL	8 56 18						
	eL	8 57 48						
	eL	9 00 18						
	M	9 01 18			0.4			
	F	9 20 48						
14th	eL	7 54 54					Very gradual increasing vibs. Distant.	
	M	8 02 30			0.5			
	F	8 09 48						
15th	S	21 00 00					Appearance somewhat similar to continuous local shocks.	
	iSR1	21 02 30						
	iSR2	21 07 48						
	e	21 13 00						
	iSR3	21 15 00						
	iL	21 19 42						
	M	21 22 54						
	eL	21 31 00			1.0			
	eL	22 01 00						
	F	22 32 18						
24th	eL?	11 32 18?					0.2	
	M?	11 33 06?						
	F	Micros.						
29th	eL	23 43 24					0.2	
	M	23 47 48						
	F	0 08 06						

PERIOD OF BOOM 18 SECONDS.
PILLAR INCLINATION 1 MM=0.45

Toronto, Canada.**SEISMOLOGICAL BULLETIN**

LATITUDE

LONGITUDE

HEIGHT

SUBSOIL

43° 43' 0.8" N.

56 17m 35.6s W.

373 feet above sea level.

Sand and Clay.

Apparatus: Milne horizontal pendulum, North.

Time: G. M. T.. MIDNIGHT TO MIDNIGHT.

From November 2nd.

To

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				Λ_N	Λ_E	Λ_Z		
		<u>H.M.S.</u>			<u>MM.</u>			
2nd.	iL	4 01 06						
	M	4 04 18			0.3			
	F	4 15 54						
2nd.	e	8 15 18						
	e	8 20 54						
	eL	8 26 00						
	M	8 28 36			0.3		Eq. reported from Peru.	
	eL	8 40 36						
	eL	8 49 12						
	eL	8 58 54						
	F	9 17 12					Looks like a dual eq.	
6th.	Small	quake	lost,	attending to instrument.				
7th.	e	16 26 48						
	e	16 33 06						
	eL	17 04 18						
	eL	17 05 48						
	eL	17 19 42						
	eL	17 30 30						
	M	17 32 30						
	eL?	18 40 18			0.3			
	F	18 46 54						
11th.	eL	15 04 30						
	L	15 06 42						
	eL	15 14 18			0.2			
	F	15 35 24						
11th.	P?	18 50 18						
	PR?	18 54 48						
	iS	18 59 36						
	eL	19 25 24						
	L	19 36 54						
	eL	19 39 00						
	eL	19 51 36						
	eL	20 02 18						
	M	20 07 48						
		20 10 12			1.2			
	L	20 20 12						
	eL	20 48 18						
	iL	21 02 18						
	F	21 32 54						

Toronto, Canada.

1.

SEISMOLOGICAL BULLETIN

LATITUDE
43° 47' 0.8" N.

LONGITUDE
5h 17m 35.6s W.

HEIGHT
373 feet above sea level.

SUBSOIL
Sand and Clay.

Apparatus: Milne horizontal pendulum, North.

Time: G. M. T., MIDNIGHT TO MIDNIGHT.

From To

Date	Phase	OCTOBER 1st.		Period	Amplitude			October 20th.	Remarks
		Hour			A _N	A _E	A _Z		
		H. K. S.				MM.			
1st.	L	17	18 00					Doubtful as to being seismic Some characteristics strikingly seismic.	
	eL	17	19 48						
	M	17	23 00			0.5			
	F	17	29 24						
1st.	L	21	22 42					Utah eq.	
	L	21	25 30			0.1			
	L	21	29 12						
9th.	L	1	45 12					A continuous minute vibration. Micros going on.	
	F	1	53 36			0.2			
9th.	L	7	33 30			0.05			
10th.	L	3	58 24					Micros.	
	L	3	08 00			0.2			
	F								
14th.	L	17	47 24					0.2	
	M	17	55 36						
	F	18	21 18						
15th.	1P	5	19 30					2.0 7260	
	S	5	23 12						
	SH1	5	34 42						
	I	5	48 18						
	L	6	01 48						
	eL	6	03 54						
	M	6	12 00						
	eL	6	15 06						
	iL	6	16 06						
	iL	6	25 42						
	eL	6	31 18						
	iL	7	07 54						
	eL	7	18 00						
	eL	7	32 06						
	F	7	46 12						
20th.	1S	6	22 42					P not recorded. S came in very abruptly.	
	SH1	6	26 36						
	SH2	6	30 48						
	iL	6	32 30						
	eL	6	36 00						
	M	6	39 12						
	F	7	16 42			1.0			

No.

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Toronto, Canada.

SEISMOLOGICAL BULLETIN

LATITUDE
43° 47' 0.8" N.

LONGITUDE
5h 17m 35.6s W.

HEIGHT
373 feet above sea level.

SUBSOIL
Sand and Clay.

Apparatus: Milne horizontal pendulum, North.

Time: G. M. T.. MIDNIGHT TO MIDNIGHT.

From..... To.....
October 20. October 31st.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
		A.M.S.						
20th	eL M F	11 50 42 11 57 42 12 10 30			0.1			
25th.	eL M F	16 04 48 16 07 00 16 27 36			0.4		A continuous vibration up to 16h 43m 18s. quick period.	
Period of boom 18 seconds.				Pillar inclination 1 MM=0.45				

No.....

Toronto, Canada.

SEISMOLOGICAL BULLETIN

LATITUDE 43° 43' 0.8" N. LONGITUDE 5h 17m 35.6s W. HEIGHT 373 feet above sea level. SUBSOIL Sand and Clay.

Apparatus: Milne horizontal pendulum, North.

Time: G. M. T.. MIDNIGHT TO MIDNIGHT. ~~DECEMBER 1st.~~ ~~DECEMBER 31st.~~

From..... To.....

Date	Phase	Hour H. M. S.	Period	Amplitude			Δ	Remarks
				A _N	A _{SEI}	A _Z		
8th.	L	13 24 48						Heavy micros going on.
	eL	13 28 36			0.3			
	M	13 31 00						
	F	Micros.						
18th.	L	10 58 18						
	M	11 02 24			0.3			
	F	11 07 36						
18th.	P	15 37 48					P very small & poorly defined. S & SR large, came in abruptly. Possibly Iceland.	
	PR	15 41 30						
	IS	15 44 30			1.8			
	ISR	15 47 30			2.3	5000		
	M	15 48 30			2.5			
	eL	15 50 30						
	eL	15 53 12						
	L	15 58 54						
F	-							
PERIOD OF BOON 18 SECONDS.				PILLAR INCLINATION 1 IN = 0.45				