

MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MARBLE BAR (TOWN)

JAN 1973

CODE MBT

LATITUDE $21^{\circ}10.2'$ S

LONGITUDE $119^{\circ}44.5'$ E

ELEVATION 200 m

FOUNDATION Archean Basic igneous

COMPONENT

To
(Seconds)

Tg
(Seconds)

MAGNIFICATION
at To Peak

SP Z

1.0

-

20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

Date	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MARBLE BAR (MBT)

January.

01			Nil.			
*02	iP	C	00 55 55.9			
	eS		57 49			
*02	iP	D	02 32 09.7			
02	eP		04 44 53			
02	eP		13 08 59			
03	eP		02 34 52			
*03	iP	C	04 16 40.8	0.7	45mu	1.8
03	eP		12 08 55			
	eS		10 50			
03	eP		17 48 13			
	eS		50 06			
*04	iP	C	01 15 54.7	0.5	62mu	2.1
04	eP		03 55 08			
	eS		55 20			Blast.
04	eP		04 15 34			
04	eP		19 13 55			
05	eP		04 37 57			
05	eP		10 13 30			
*05	iP	D	14 03 12.0			
06	iP	D	05 09 56.7			
06	eP		07 32 02			
	eS		32 37			
06	eP		08 06 53			
06	eP		15 41 44			
*06	iP	D	16 00 53.2			
06	eP		22 23 59			
07	eP		01 38 18			ML = 3.0
	eS		38 36			
*07	iP	D	07 21 57.0			
*07	iP	D	09 26 07.7			
*07	iP	C	12 49 24.9			
08	eP		04 19 34			Blast
	eS		20 05			
08	eP		06 08 58			
*08	iP	C	23 23 38.7			
09	eP		02 42 03			Blast.
	eS		42 35			
09	eP		06 20 19			
09	eP		21 14 17			
10	eP		10 59 39			
	eS		11 02 38			
*10	iP	C	11 40 17.3	0.7	45mu	1.8
*10	iP	C	11 54 32.7			
*11	iP	D	20 25 38.7			
12	eP		03 24 12			
12	eP		09 50 37			
13	iP	D	01 13 36.8			
13	eP		08 09 06			
	eS		09 53			
14	eP		01 14 31			Blast.
	eS		15 01			
14	eP		11 22 48			

Date 1973 Phase Dir. G.M.T. Per. (sec.) Amp. LogA/T



MARBLE BAR (MBT) Cont.

January.

14	iP	C	17 13	40.4			
14	iP	D	20 17	41.2			
*15	iP	D	02 03	49.4			
15	eP		03 29	08			
*15	iP	C	09 11	22.0			
	e		11 43				
	e		12 27				
*16	iP	C	05 47	58.1			
*16	iP	C	09 52	14.0			
17	eP		02 29	24			
17	eP		08 18	12			
*17	iP	D	09 54	31.9			
*18	iP	D	03 58	41.9			
*18	iP	C	09 34	42.8	1.0	479mu	2.7
18	eP		10 24	10			
*18	iP	C	13 34	00.2			
18	eP		16 26	53			
19	eP		08 10	54			
19	eP		23 53	35			
20	eP		08 15	38			
	eS		16 13				
20	eP		10 23	48			
20	eP		18 31	24			
21	eP		00 03	10			
	eS		05 12				
*21	iP	C	01 10	20.6			
21			No record				
*22	iP	D	13 45	48.8			
22	eP		23 52	04			
*23	iP	D	04 57	58.6			
24	eP		11 23	03			
*24	iP	D	20 10	12.1	0.9	65mu	1.8
*25	eP		12 24	24			
25	eP		16 05	45			
	eS		07 24				
*25	iP	C	18 44	52.7			
26	eP		08 43	15			
*26	iP	C	21 37	36.8			
27	eP		01 54	27			
27	eP		12 47	08			
*27	iP	C	13 13	28.7			
*28	iP	D	08 26	38.6			
*28	iP	D	17 44	25.6			
*28	iP	C	17 51	33.3			
28	eP		23 10	27			
29	eP		04 44	08			
	eS		44 37				
29	eP		08 27	03			
29	eP		14 36	21			
30	eP		03 36	21			
30	eP		21 20	31			
31	eP		18 19	59			
*31	iP	D	21 04	20.6	0.6	5280mu	3.3
	e		11 10				

Mt. Newman

* Sent by telegram to N.O.A.A.

MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MARBLE BAR (TOWN)

FEB 1973

CODE MBT

LATITUDE $21^{\circ}10.2'$ S

LONGITUDE $119^{\circ}44.5'$ E

ELEVATION 200 m

FOUNDATION Archean Basic igneous

COMPONENT

To
(Seconds)

Tg
(Seconds)

MAGNIFICATION
at To Peak

SP Z

1.0

-

20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

Date Phase Dir. G.M.T. Per. Amp. LogA/T
1973 (sec.)



MARBLE BAR (MBT)

February.

01	eP		05 33 13			
*01	iP	D	05 36 27.0			
*01	iP	D	07 37 35.6	0.5	80mu	2.2
01	eP		13 23 23			
02	eP		08 32 32			
03	eP		07 37 27			
	eS		37 59			
04	eP		02 20 54			
*04	iP	D	22 44 38.4			
05	eP		23 00 23			
06	eP		04 23 48			
06	eP		06 56 49			
	eS		57 26			
06	eP		10 46 43			
*06	iP	D	10 04 22.7			
06	eP		13 29 45			
07	eP		06 29 51			
	i		53.5			
	e		30 32			
*07	iP	D	09 56 53.3			
07	eP		15 17 06			
	eS		18 45			
*07	iP	D	16 15 59.2			
08	eP		08 45 41			
*08	iP	C	10 15 24.1			
09			Nil			
10	eP		05 22 02			
10	eP		07 33 54			
	eS		34 30			
10	eP		08 03 24			
	eS		03 55			
10	eP		10 58 13			
10	eP		17 07 39			
*10	iP	D	22 42 24.6			
11	eP		01 49 36			
11	eP		09 00 23			
*11	iP	D	10 38 47.9			
11	eP		11 23 49			
12			Nil			
*13	iP	C	14 05 07.4			
*13	iP	D	15 31 57.6	0.9	1460mu	3.3
*13	iP	C	18 10 04.1			
*14	iP	C	00 57 14.2	0.7	84mu	2.1
14	eP		09 25 32			
14	eP		09 40 38			
14	eP		15 26 08			
14	eP		16 20 56			
15	iP	D	03 57 02.9			
	iS		57 16.0			
*15	iP	D	05 36 18.4			
16	iP	D	23 45 51.1			
17			Nil			
18	eP		18 19 07			
19			Nil			
*20	iP	D	18 19 08.8			

Tom Price
blast.

Blast
ML 3.3

Date 1973 Phase Dir. G.M.T. Per. (sec.) Amp. LogA/T



MARBLE BAR (MBT) Cont.

February.

Date	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T	Notes
*21	iP	D	12 21 29.1				
21	eP		14 51 26				
22	eP		00 49 55				
22	eP		13 22 21				
*22	iP	C	16 29 12.2				
23	eP		04 46 09				
23	eP		11 14 55				
*23	iP	C	16 25 21.7				
23	eP		21 06 17				
24	eP		04 36 46				
24	eP		07 46 46				
*24	iP	D	11 22 09.5				
25	eP		03 47 33				
25	eP		05 49 22				
25	eP		10 37 25				
26	eP		03 41 12				
*26	iP	D	10 01 48.5	0.8	54mu	1.8	
26	eP		10 59 11				
26	eP		14 37 48				
	eS		39 38				Meckering mB 3.9
27	eP		09 14 44				
28	eP		03 58 21				
	eS		58 31				Explosion
28	eP		03 59 36				
	eS		59 44				Explosion
*28	eP		06 49 48				
28	eP		08 13 48				
28	eP		13 11 24				
	eS		13 03				
28	eP		23 12 39				
	e		16 32				

* Sent by telegram to N.O.A.A.

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AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

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■ MAR 1973

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LATITUDE $27^{\circ}10.2'$ S

LONGITUDE $119^{\circ}44.5'$ E

ELEVATION 200 m

FOUNDATION Archean Basic igneous

COMPONENT

T_o
(Seconds)

T_g
(Seconds)

MAGNIFICATION
at T_o Peak

SP Z

1.0

-

20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

Date 1973 Phase Dir. G.M.T. Per. (sec.) Amp. LogA/T



HARBLE BAR (MBT)

March.

01	eP		01 30 28			
01	eP		08 49 44			
	eS		50 22			
02	eP		02 34 29			
02	eP		04 27 45			
	eS		27 56			
02	eP		15 47 00			
	eS		49 47			
*03	iP	D	00 49 55.5	0.9	43mu	1.7
*03	iP	D	02 54 04.6			
03	iP	D	03 56 34.1			
	eS		56 43			
03	eP		05 50 35			
	eS		51 06			
03	eP		10 49 03			
	eS		49 37			
04	eP		18 10 09			
05	eP		23 26 11			
06	eP		02 24 51			
06	eP		04 37 22			
07	eP		01 34 49			
08			Nil			
*09	iP	D	10 11 28.0			
*09	iP	D	15 32 40.3			
*09	iP	D	19 15 21.3	0.5	12mu	1.3 N.S.W.
	eS		34 19			
	e		36 32			
*10	iP	C	03 11 08.0			
	eS		12 24			
10	iP	D	09 18 13.8			Explosion
	eS		18 26			
*10	iP	C	19 41 53.3			
*11	iP	D	13 48 26.0			
*11	eP		16 06 02			Lake McKay
	eS		07 22			
12	eP		06 00 16			
	eS		02 42			
12	eP		11 26 19			
*12	iP	D	12 44 33.5			
12	eP		13 12 45			
12	eP		15 02 56			
*12	iP	C	19 51 20.1			
*13	iP	D	00 00 10.8			
*13	iP	D	01 49 36.4			
13	eP		20 08 03			
14	eP		10 12 12			
*14	iP	C	11 32 35.8	0.8	430mu	2.7
*14	eP		23 41 25			
15	eP		02 10 56			
*15	iP	C	22 15 53.6			
16	eP		00 57 03			
16	eP		02 17 36			
16	eP		03 45 56			

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T		
MARBLE BAR (MBT) Cont.								
March.								
16	eP		23 30 26					
	eS.		30 37					
17	eP		01 34 13					
	eS		34 43					
*17	eP		05 05 22					
	e		10 28					
17	eP		08 37 14					
	eS		37 38					
17	eP		15 45 44					
	e		49 47					
17	eP		16 43 42					
*18	iP	C	11 11 27.9					
18	eP		11 28 58					
*18	iP	D	19 54 55.4	0.7	134mu	2.2		
19	eP		04 45 45					
	eS		46 14					
19	eP		11 53 45					
20	iP	C	19 12 02.3	0.9	1075mu	3.1	MB 5.8	
	eS		14 14					
20	eP		21 40 40					Explosion
	eS		40 47					
21	iP	D	04 13 09.5					Explosion
	eS		13 22					
22	iP	D	09 21 02.5					Explosion
	eS		21 14					
*22	iP	D	11 36 08.5					
	eS		38 18					
22	eP		14 56 11					
22	eP		17 10 44					
*22	iP	C	18 46 12.1					
22	eP		22 44 56					
*23	iP	D	21 45 21.0	1.0	570mu	2.8		
24	eP		00 44 14					
25	eP		09 08 12					
25	eP		10 00 12					
25	eP		16 59 56					
*25	iP	D	22 13 14.5					
26	eP		02 45 33					
*26	iP	D	05 18 37.1					
26	eP		08 10 02					
26	eP		09 53 22					
26	eP		11 23 16					
*26	iP	C	15 06 24.3					
26	iP	C	17 45 29.0					
*27	iP	C	02 18 28.5					
27	eP		08 36 55					
27	eP		12 03 38					
27	eP		15 09 20					
	eS		12 16					
28	eP		16 51 02					
28	iP	C	22 36 27.8					
29	eP		01 36 46					
	eS		37 17					
30	eP		03 21 10					
30	eP		19 06 17					
*30	iP	C	21 57 22.0					
31			Nil					
* Sent by telegram to N.O.A.A.								

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AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MARBLE BAR (TOWN)

APR 1973

CODE MBT

LATITUDE $21^{\circ}10.2'$ S

LONGITUDE $119^{\circ}44.5'$ E

ELEVATION 200 m

FOUNDATION Archean Basic igneous

COMPONENT

To
(Seconds)

Tg
(Seconds)

MAGNIFICATION
at To Peak

SP Z

1.0

-

20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MARBLE BAR (MBT)

April.

*01	iP	C	12 34 07.3			
02	eP		19 44 05			
02	iP	D	23 20 48.9			
03	eP		04 34 02			Explosion
	eS		34 09			
03	eP		04 34 12			Explosion
	eS		34 22			
03	eP		12 47 10			
*03	eP		14 13 41			
03	eP		16 57 53			
	eS		00 45			
03	eP		17 27 42			
04	eP		00 31 33			
	e		31 44			
	eS		33 54			
*04	iP	D	09 59 24.5	0.5	60mu	2.1
	eS		02 50			
05	eP		03 08 43			
	i		08 49.8			
	eS		10 59			
05	eP		22 28 05			
	e		28 10			
06	eP		00 50 16			Explosion
	eS		50 27			
06	eP		04 14 25			Explosion
	eS		14 54			
06	eP		09 57 27			
	eS		59 39			
*07	iP	C	03 08 28.0	0.8	50mu	1.7
08	eP		03 24 39			
08	eP		12 49 18			
08	eP		20 58 26			
08	eP		22 58 02			
*09	iP	C	08 41 03.0			
*09	iP	D	10 33 37.0			
10	eP		03 50 53			
*10	eP		19 58 34			
	eS		00 26			
10	eP		21 40 31			
10	eP		22 32 58			
10	eP		23 36 44			
10	eP		23 45 27			
*11	iP	D	02 12 18.7			
11	eP		03 52 39			Explosion
	eS		52 52			
11	eP		04 50 37			
	eS		51 08			
11	eP		09 22 57			
*11	iP	C	09 27 53.8			
*11	iP	C	10 41 40.9			
11	eP		14 15 51			
11	eP		17 53 00			
12	iP	C	02 09 26.0			

Date 1973 Phase Dir. G.M.T. Per. (sec.) Amp. LogA/T

MARBLE BAR (MBT)

April.

*12	iP	C	14 01 15.4
13	eP		00 16 31
*13	iP	D	01 46 14.0
13	iP	D	20 02 54.2
14	eP		07 24 57
14	eP		08 53 54
14	eP		16 23 32
15			No record
16			Nil
17	iP	D	12 39 27.4
17	iP	C	14 27 41.8
17	eP		22 21 49
18			Nil
19	iP	C	10 21 27.5
20	eP		15 16 16
21	eP		05 19 17
21	eP		21 15 44
22	eP		05 55 20
*22	iP	C	10 11 56.2
*22	iP	C	19 09 16.0
22	eP		20 39 00
*23	iP	D	14 20 43.2
24	eP		01 31 16
	cS		31 43
24	eP		03 38 12
	eS		38 23
24	eP		21 50 02
*25	iP	D	14 31 00.0
25	eP		17 30 32
25	eP		21 47 54
26	eP		03 40 50
	eS		41 03
26	eP		10 27 17
	eS		29 47
26	eP		20 12 47
26	eP		20 39 41
27	eP		22 15 58
	eS		16 39
27	eP		22 35 46
28			No Record
29	eP		15 38 02
*29	iP	C	18 46 45.1
30	eP		02 02 44
30	iP	D	08 47 52.0

Explosion
ML = 2.5

ML = 3.1

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS
MUNDARING GEOPHYSICAL OBSERVATORY
AUSTRALIA



PRELIMINARY SEISMOLOGICAL BULLETIN

MARBLE BAR (TOWN)

MAY 1973

CODE MBT

LATITUDE 21°10.2' S

LONGITUDE 119°44.5' E

ELEVATION 200 m

FOUNDATION Archean Basic igneous

COMPONENT

To
(Seconds)

Tg
(Seconds)

MAGNIFICATION
at To Peak

SP Z

1.0

-

20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MARBLE BAR (MBT)

May.

01	eP		09 43 18			
01	eP		10 47 07			
02	eP		00 32 41			
02	eP		05 49 07			
*02	iP	C	05 50 57.2			
*03	iP	D	23 19 22.0			
04	eP		03 53 33			
	eS		53 45			
*04	eP		11 32 29			
*04	iP	D	19 38 43.8			
05	eP		00 01 51			
05	eP		04 02 40			
*06	iP	C	14 49 21.8			
06	eP		16 04 11			
07	eP		22 49 35			
07	eP		22 51 52			
08	eP		00 51 55			
08	eP		03 39 25			
	eS		39 37			
08	eP		04 53 56			
08	eP		22 03 54			
	eS		06 33			
09	eP		03 09 05			
	eS		09 23			
09	eP		08 20 37			
	eS		21 10			
09	eP		08 22 06			
	eS		22 34			
09	eP		14 22 32			
10	eP		03 39 14			
	eS		39 25			
10	eP		08 26 59			
	eS		27 33			
11	eP		03 53 49			
	eS		53 59			
11	eP		03 54 41			
	eS		54 51			
11	eP		08 56 43			
	eS		56 52			
*11	iP	C	10 50 28.7	1.0	266mu	2.4
11	eP		19 52 43			
11	eP		23 23 19			
	eS		24 55			
12	eP		03 37 57			
	eS		38 10			
12	eP		05 52 13			
12	eP		07 56 54			
	e		57 25			
*12	eP		16 27 08			
*12	eP		19 41 40			
13	eP		13 02 36			
14	eP		06 07 28			
14	eP		17 20 28			
14	iP	D	21 24 42.7			
15			Nil			
16	iP	D	01 29 59.0			
	eS		30 29			
*16	iP	C	19 16 14.5			

Explosion

Blast.

Blast.

Blast.

Blast.

Blast.

Blast.

Blast.

MARBLE BAR (MBT) Cont.

May.							
16	eP		19 48 03.				
17			Nil				
18	eP		05 45 53				Explosion
	eS		46 23				
*18	iP	D	13 26 56.1	0.9	172mu	2.3	
19-21			Nil				
*22	iP	C	20 18 57.3				
*22	iP	C	22 11 20.5				
23			Nil				
24	eP		18 16 30				
	eS		18 08				
24	eP		19 00 22				
24	eP		19 53 49				
25	eP		17 56 37				
26	eP		02 25 48				
26	eP		12 32 28				
*27	eP		00 35 57				
27	iP	D	06 47 23.6				
28	eP		03 50 15				Mt. Newman Explosion
	eS		50 43				
28	eP		20 36 09				
29			Nil				
30	eP		04 57 37				
30	eP		05 58 56				
30	eP		11 37 42				
30	eP		14 27 11				
30	eP		19 55 33				
31	eP		23 49 03				
	i		56 21.5				

* Sent by telegram to N.O.A.A.

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JUN 1973

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LATITUDE $21^{\circ}10.2' S$

LONGITUDE $119^{\circ}44.5' E$

ELEVATION 200 m

FOUNDATION Archean Basic Igneous

COMPONENT

To
(Seconds)

T_g
(Seconds)

MAGNIFICATION
at To Peak

SP Z

1.0

-

20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T	
MARBLE BAR (MBT)							
June.							
01	iP	D	03 57 19.5				
	eS		57 32				
*01	iP	D	07 29 14.1				
02	eP		07 30 34				
02	eP		08 15 00				
02	eP		15 41 27				
03	iP	C	00 08 32.8				
*04	iP	D	09 32 24.4				
*04	iP	D	13 09 17.0				
05	eP		01 32 43				
	eS		33 14				Explosion
*06	iP	D	16 48 27.2				
07	iP	D	09 26 37.1				
	eS		26 48				Explosion
*07	iP	C	18 52 24.2				
*07	iP	D	18 54 28.8				
08	eP		01 09 30				
08	iP		09 04 44.0				
	eS		05 18				Explosion
09			No record				
10	iP	C	08 07 15.7	0.2	810mu	3.6	Local
	eS		07 17				
*10	iP	D	13 56 34.8				
*10	iP	D	16 00 19.2				
11	eP		08 54 26				
*11	iP	C	10 21 06.9				
12	eP		04 40 12				
12	eP		09 04 58				
13	eP		06 49 54				
*13	iP	C	09 56 55.2	1.0	270mu	2.4	
13	eP		23 39 42				
*14	iP	D	03 40 22.7				
14	eP		09 44 00				
14	eP		09 45 52				
*14	iP	D	11 05 43.1				
14	eP		14 52 18				
15	iP	D	03 45 14.1				
15	eP		09 08 18				
15	eP		11 33 05				
	e		33 12				
15	eP		12 23 56				
15	eP		21 22 02				
15	eP		23 14 38				
*16	iP	D	07 33 12.0				
16	eP		11 32 04				
16	iP	D	15 09 01.1				
*17	iP	C	04 06 01.0				
*17	eP		11 46 50				
	eS		49 42				
17	eP		19 06 38				
*17	iP	C	20 48 53.1				
18	eP		01 32 21				
18	eP		03 37 30				
*18	iP	D	17 56 40.3				Explosion
*18	iP	D	18 35 14.2				
19	eP		03 39 25				
	eS		39 35				Explosion

Date Phase Dir. G.M.T.
1973

Per.
(sec.)

Amp.

LogA/



MARBLE BAR (MBT) Cont. (2)

June.

19	eP		03 40 59			
19	eP		22 41 24			
20	eP		03 39 59			Explosion
	eS		40 10			
20	eP		12 11 43			
21	eP		03 42 27			Explosion
21	eP		14 33 54			
22	eP		02 09 30			
22	eP		04 05 02			
22	eP		05 06 08			
22	eP		06 18 36			
*22	iP	D	18 55 54.2			
22	eP		20 01 51			
*22	iP	C	22 55 50.7			
23	eP		00 30 54			
23	eP		00 46 54			
*23	iP	D	05 39 48.7			
23	eP		10 35 39			
*24	iP	C	02 54 24.7			
*24	iP	D	03 15 18.2			
24	eP		05 18 46			
24	eP		18 02 46			
25	eP		01 33 09			Explosion
	eS		33 41			Mt. Tom Price
26			No record			
*27	eP		11 29 57			
	i		30 00.9			
	eS		32 03			
27	eP		12 26 24			
*27	iP	D	21 03 35.0			
28	eP		11 04 24			
*28	iP	C	14 19 10.4	1.0	480mu	2.7
*28	iP	C	20 27 26.5			
	e		30 48			
28	eP		21 07 19			
28	eP		22 02 24			
29	eP		18 01 10			
29	eP		20 03 33			
	eS		05 28			
29	eP		23 33 16			
30	eP		02 12 13			
	eS		12 39			
30	eP		05 33 12			
30	eP		07 24 26			
	e		25 02			
30	eP		09 17 25			
	eS		17 38			
30	eP		13 27 47			

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS



MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MARBLE BAR (TOWN)

1 - JUL 1973

CODE MBT

LATITUDE 21°10.2' S

LONGITUDE 119°44.5' E

ELEVATION 200 m

FOUNDATION Archean Basic Igneous

COMPONENT

To
(Seconds)

Tg
(Seconds)

MAGNIFICATION
at To Peak

SP Z

1.0

-

20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

OCT 23 1973

Date Phase Dir. G.M.T. Per. Amp LogA/T
1973 (sec.)

MARBLE BAR (MBT)

July.

01	eP		02 39 04			
01	eP		13 52 12			
02	eP		01 31 30			
03	eP		04 41 21			
03	eP		07 10 24			
04	eP		16 43 04			
*04	iP	C	21 13 34.5	0.9	100mu	2.1
04	eP		23 43 21			
	eS		46 46			
05	eP		00 00 35			
05	eP		03 43 00			
05	eP		16 34 13			
*05	iP	C	19 30 58.7	0.6	98mu	2.2
05	eP		22 53 00			
06	eP		13 48 27			
07	eP		01 28 30			
*07	iP	D	14 11 10.8			Explosion
*07	iP	C	15 47 16.0			
08			Nil			
09	eP		09 09 07			
09	eP		16 27 29			Explosion
*09	iP	D	21 36 45.6			
10	eP		07 09 26			
11	eP		06 02 08			
11	eP		10 14 59			
11	eP		23 36 13			
12			Nil			
13	eP		14 13 13			
14	eP		05 01 54			
*14	iP	C	05 25 30.0			
*14	iP	C	13 50 04.0			
15			Nil			
16	eP		04 06 01			
*16	eP		05 45 20			
	eS		47 13			
*16	eP		08 43 58			
	eS		45 50			
*16	iP	C	13 11 28.9	0.4	146mu	2.6
16	eP		21 42 48			
*16	iP	D	00 19 43.0			
17	eP		21 54 06			
17	eP		23 12 24			
18	eP		04 00 36			
18	eP		15 40 28			
18	eP		17 50 27			
18	eP		22 22 31			
*19	iP	D	05 53 26.0			
20	eP		01 23 30			
	eS		23 55			
20	eP		02 24 40			
*20	iP	D	02 46 44.0			
20	eP		08 08 53			
20	eP		08 23 02			
20	eP		10 18 46			
*21	iP	D	04 28 14.9	0.7	450mu	2.7
21	eP		09 13 02			
	e		13 04			
	e		13 15			

Date Phase Dir. G.M.T. Per. Amp. LogA/T
1973 (sec.)



MARBLE BAR (MBT) Cont. (2)

July.

21	eP		09 30 25
*21	iP	D	11 54 03.0
*21	iP	D	19 22 23.3
22	eP		15 32 48
*22	iP	D	16 48 48.1
	eS		52 00
*22	iP	D	21 42 29.7
*23	iP	C	01 35 07.7
23	eP		03 47 37
	eS		47 50
23	eP		08 35 33
	e		40 34
*24	iP	C	08 03 51.2
	e		04 50
24	eP		11 19 36
	eS		20 45
*24	iP	D	13 02 35.4
25	eP		03 43 01
	eS		- 43 30
25	eP		06 16 19
25	eP		06 47 49
25	eP		22 44 41
	eS		46 42
26	eP		08 18 31
	eS		19 05
*26	iP	D	11 14 05.4
	eS		15 47
27	eP		02 21 46
27	eP		16 16 54
27	eP		16 52 05
	eS		55 00
27	eP		19 37 11
27	eP		20 02 17
27	eP		20 32 43
28	eP		14 39 25
28	eP		18 01 30
28	iP	D	20 17 23.1
29	eP		21 49 59
30			Nil
31	eP		20 52 38
31	eP		22 00 14
31	eP		23 24 49
	eS		26 47

Explosion

* Sent by telegram to NOAA

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MARBLE BAR (TOWN)

AUG 1973

CODE MBT

LATITUDE $21^{\circ}10.2' S$

LONGITUDE $119^{\circ}44.5' E$

ELEVATION 200 m

FOUNDATION Archean Basic Igneous

COMPONENT

To
(Seconds)

Tg
(Seconds)

MAGNIFICATION
at To Peak

SP Z

1.0

-

20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073

Date 1973 Phase Dir. G.M.T. Per. (sec.) Amp. LogA/T



MARBLE BAR (MBT)

August.

Date	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
*01	iP	C	01 39 33.8			
01	eP		04 42 02			
01	eP		14 15 06			
02	eP		09 07 15			
02	eP		21 43 41			
*03	iP	D	12 26 29.0			
03	eP		15 13 19			
*04	iP	D	21 56 38.0	0.7	268mu	2.6
05	eP		07 50 29			
*05	iP	C	15 58 01.2			
06-13			No record			
14	eP		08 17 03			
14	eP		09 31 05			
15	eP		14 09 17			
16	eP		01 33 04			
*16	iP	D	04 06 45.3			
16	eP		04 09 50			
16	eP		06 14 02			
16	iP	C	12 30 00.9			
16	eP		14 38 27			
17			Nil			
18	eP		08 33 14			
19	eP		07 50 53			
	eS		51 06			
19	eP		16 25 39			
19	eP		19 38 03			
*19	eP		19 52 57			
	eS		54 47			
20			No record			
21	eP		01 51 05			
21	eP		09 56 27			
21	eP		14 07 47			
*21	iP	C	19 11 09.3			
*22	iP	C	06 48 50.0			
*22	iP	C	07 00 30.8			
22	eP		09 32 57			
*22	iP	D	17 03 40.0			
*22	iP	C	17 37 05.1			
22	eP		18 31 23			
23	eP		09 13 00			
	eS		13 13			
*23	iP	C	17 02 08.3			
23	eP		19 26 39			
*24	iP	C	00 00 49.2			
25-26			Missing record			
27			Nil			
28	eP		04 17 32			
	eS		18 03			
28	eP		07 06 57			
	eS		08 55			
*28	iP	D	10 10 10.3			
29	eP		03 35 06			
	eS		35 19			
29	eP		08 18 20			
	eS		18 55			
29	eP		09 21 21			
	eS		21 32			

Meckering

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MARBLE BAR (MBT) Cont. (2)

August.

30	eP		09 03 50			
30	eP		13 09 31			
30	eP		18 45 24			
30	eP		19 58 16			
30	eP		23 17 31			
31	eP		08 16 27			
31	eP		09 33 04			

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS



MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MARBLE BAR (TOWN)

- SEP 1973

CODE MBT

LATITUDE $27^{\circ}10.2' S$

LONGITUDE $119^{\circ}44.5' E$

ELEVATION 200 m

FOUNDATION Archean Basic Igneous

COMPONENT

To
(Seconds)

T_g
(Seconds)

MAGNIFICATION
at To Peak

SP Z

1.0

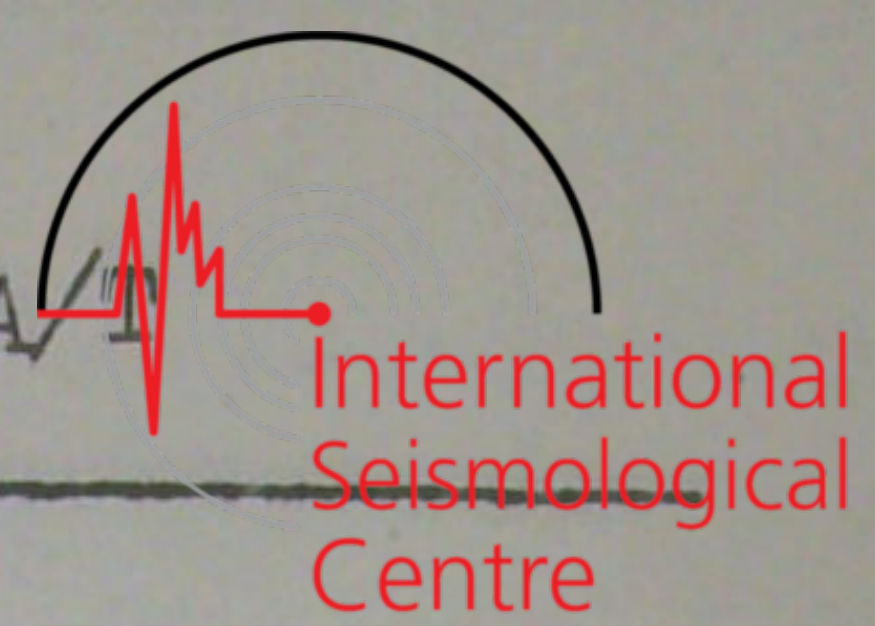
-

20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

DEC 3 1973

Date 1973 Phase Dir. G.M.T. Per. (sec.) Amp. Log, A/T



MARBLE BAR (MBT)

SEPTEMBER.

01	eP		03 34 55
	eS		35 07
01	eP		08 16 26
	eS		16 36
01	eP		18 17 05
02	eP		00 34 36
02	eP		04 34 44
03			Nil
04	eP		20 51 33
*05	iP	C	00 41 09.1
05	eP		13 13 45
06			Nil
*07	iP	D	09 37 57.5
07	eP		10 47 27
07	eP		14 05 03
08	eP		07 36 06
*08	iP	C	08 06 19.0
08	eP		19 49 38
	eS		50 56
09	eP		18 36 24
10	eP		07 53 13
10	eP		09 59 58
11			Poor record
12	eP		04 41 02
12	eP		07 13 55
12	eP		09 13 12
12	eP		18 37 07
13	eP		02 45 13
	eS		45 31
13	eP		06 25 57
13	eP		13 27 01
13	eP		23 59 26
14	eP		04 50 36
	eS		51 06
14	iP	C	06 59 08.2
14	eP		08 22 10
	eS		22 46
14	eP		23 49 32
*15	iP	C	23 16 14.2
16			Nil
*17	iP	D	07 31 54.6
18	eP		04 37 51
	eS		38 02
18	eP		13 17 54
18	eP		17 17 38
19			Nil
*20	eP		20 49 07
	e		54 42
*21	iP	C	05 16 16.2
*21	iP	D	12 23 56.6
*21	iP	D	19 36 52.4
22	eP		12 44 22
23	eP		01 59 44

Explosion

Local

Date 1973 Phase Dir. G.M.T. Per. (sec.) Amp. LogA/T.

MARBLE BAR (MBT) Cont. (2)

SEPTEMBER.

Date	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T.
23			No record after 0200			
*24	iP	C	10 47 29.0			
25	eP		01 27 42			
*25	iP	D	22 26 22.1			
26	eP		15 47 32			
27	eP		01 39 55			
27	eP		19 03 12			
*28	iP	D	03 12 33.8			
29	eP		07 29 47			
29	eP		13 42 31			
30	eP		05 50 45			
*30	iP	C	06 27 53.2			

* Sent by telegram to N.O.A.A.



BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MARBLE BAR (TOWN)

OCTOBER 1973

CODE MBT

LATITUDE $21^{\circ}10.2' S$

LONGITUDE $119^{\circ}44.5' E$

ELEVATION 200 m

FOUNDATION Archean Basic Igneous

COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION at To Peak
SP Z	1.0	-	20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073

01			No Record.
*02	iP	C	21 24 35.6
03			Nil
04-08			No Record.
09			Nil
10	eP		05 47 49
	eS		49 54
11	eP		02 27 12
11	eP		03 26 20
*11	iP	C	08 47 53.8
11	eP		09 58 23
11	eP		14 56 55
*11	iP	C	21 28 41.9
11	eP		23 14 11
	eS		16 20
12	eP		03 05 44
12	eP		05 25 36
12	eP		14 40 49
*12	iP	C	23 46 55.9
13			Nil
14	eP		14 06 07
	eS		08 39
*14	iP	D	22 13 55.9
15	eP		06 34 01
16	eP		08 11 46
*17	iP	C	03 27 28.3
17	eP		08 16 17
18	eP		00 38 40
*19	iP	C	00 21 09.7
19	eP		04 23 35
*20	iP	C	20 01 51.2
21	eP		03 53 31
21	eP		13 55 16
21	eP		14 12 34
21	eP		19 50 19
22	eP		03 35 02
	eS		35 16
22	eP		09 05 45
	eS		05 58
23	eP		01 32 13
	eS		32 44.5
23	eP		11 23 06
	eS		26 02
23	eP		11 32 22
	eS		34 05
23	eP		21 42 20
	eS		44 02
24	eP		09 24 10
	eS		24 48
25	eP		04 42 09
*25	eP		05 01 20
*25	iP	D	06 47 56.2
25	eP		14 27 09
	i		27 24.1
*25	iP	C	20 46 16.4
26	eP		01 31 43
	eS		32 14
26	eP		15 21 03

Explosion

Explosion



MARBLE BAR (MBT) Cont. (2)

OCTOBER.

27	eP		03 16 43
	e		17 17
*27	iP	D	07 13 54.1
27	eP		08 02 05
27	eP		11 25 53
27	eP		16 51 05
27	eP		20 44 55
	eS		48 09
27	eP		22 14 47
	eS		16 55
28	eP		06 19 52
	eS		22 48
*29	iP	D	05 33 00
30	eP		07 39 12
31	eP		04 41 50
*31	iP	C	19 40 42.4

Explosion

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS



MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MARBLE BAR (TOWN)

NOVEMBER 1973

CODE MBT

LATITUDE 21°10.2' S

LONGITUDE 119°44.5' E

ELEVATION 200 m

FOUNDATION Archean Basic Igneous

COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION at To Peak
SP Z	1.0	-	20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING. W.A. 6073.

Date 1973 Phase Dir. G.M.T. Per. (Sec.) Amp.

Log A/T

International
Seismological
Centre

MARBLE BAR (MBT)

NOVEMBER.

01	eP		06 26 22			
01	eP		06 48 48			
02			Nil			
*03	iP	D	00 32 13.1			
	Missing	Record	0037 3rd to 0240 4th November.			
*04	iP	C	12 05 25.1	0.9	470mu	2.7
*04	iP	D	19 14 54.0			
	eS		17 03			
05	eP		01 48 14			
05	eP		12 41 05			
*06	iP	C	05 27 56.0			
06	eP		06 12 45			
*06	iP	D	09 49 10.5	0.8	36mu	1.6
*06	iP	C	13 01 11.6			
06	eP		17 55 41			
*06	iP	C	18 39 41.0	0.8	143mu	2.3
07	eP		04 14 56			
07	eP		07 25 41			
*08	iP	C	06 03 45.0			
*08	iP	D	09 11 05.9			
*08	iP	C	17 28 16.5			
*08	iP	C	20 36 27.7			
08	eP		21 14 38			
*09	iP	D	08 17 27.6			
	eS		19 05			
*09	iP	D	23 01 10.9			
*10	iP	D	01 25 02.7			
10	eP		04 41 48			
*11	iP	C	02 55 00.7			
*11	iP		17 02 58.9			
11	eP		22 04 48			
12	eP		04 00 48			
12	eP		06 52 03			
12	eP		09 31 30			
12	eP		10 07 54			
	eS		08 30			
13	eP		11 57 08			
13	eP		16 20 00			
*13	iP	C	22 40 26.3			
*14	eP		02 37 15			
	eS		39 06			
15	eP		17 30 02			
*15	iP	D	20 44 22.8			
15	eP		23 25 21			
16	eP		09 01 39			
	eS		01 50			
16	eP		19 41 29			
*16	iP	D	23 15 29.7			
17	eP		03 21 05			
	e		21 11			
	eS		21 47			
*17	iP	C	04 02 35.2	0.6	30mu	2.7
17	eP		11 00 33			
18			Nil			
19	eP		01 28 52			
	eS		29 23			

Explosion
Explosion

Explosion

MARBLE BAR (MBT) Cont. (2)

NOVEMBER.

19	eP		09 34 15			Explosion
	eS		34 55			
19	eP		11 38 51			
*19	iP	C	13 12 20.0			
19	eP		18 59 10			
20	eP		03 36 23			Explosion
	eS		36 37			
20	eP		03 36 34			Explosion
	eS		36 47			
20	eP		19 16 28			
21	eP		01 33 23			
21	eP		12 12 32			
*21	iP	C	13 51 13.5			
21	eP		15 10 46			
21	eP		19 09 18			
*22	iP	D	00 50 31.8			
22	iP	C	03 54 05.6			Explosion
	eS		54 18			
22	eP		09 59 24			
23	eP		03 35 41			Explosion
	eS		35 52			
23	eP		04 14 35			Explosion
	eS		15 08			
*23	iP	C	11 15 19.2			
24	eP		01 31 34			Explosion
	eS		32 05			
24	eP		07 34 01			Explosion
	eS		34 32			
*25	iP	C	04 34 26.5			
25	eP		05 50 46			
*25	iP	C	09 28 53.7			
26	eP		05 30 51			
*26	iP	C	09 06 25.7			
*26	iP	C	18 31 12.5			
	eS		33 15			
27	eP		14 04 46			
*27	iP	C	16 16 36.6			
*28	iP	D	07 04 33.4	0.8	54mu	1.8
28	eP		08 23 21			
*28	iP	C	11 04 46.1			
29	eP		00 36 12			
29	iP	C	18 10 37.4			
*30	iP	D	08 18 04.6			

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS



MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MARBLE BAR (TOWN)

DECEMBER 1973

CODE MBT

LATITUDE $21^{\circ}10.2' S$

LONGITUDE $119^{\circ}44.5' E$

ELEVATION 200 m

FOUNDATION Archean Basic Igneous

COMPONENT

To
(Seconds)

Tg
(Seconds)

MAGNIFICATION
at To Peak

SP Z

1.0

-

20K 100K at 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING. W.A. 6073.

MAR 26 1974

Date 1973 Phase Dir. G.M.T. Per. (sec.) Amp. LogA/T



MARBLE BAR (MBT)

DECEMBER 1973

01	eP		03 27 07
01	eP		04 41 32
01	eP		07 38 31
01	eP		10 49 51
*01	iP	D	21 23 39.4
*01	eP		23 27 57
01	eP		23 46 54
*02	eP		13 55 18
02	eP		14 05 19
*02	iP	D	23 19 35.8
03	eP		02 07 06
03	eP		19 41 44
04	eP		00 45 12
04	eP		09 31 35
	iS		32 14.5
*04	eP		11 57 27
04	eP		15 38 56
05	eP		00 07 39
*05	eP		04 21 27
05	eP		12 52 22
05	eP		14 30 39
06	eP		04 29 28
*06	iP	D	17 04 34.6
06	eP		23 21 29
07	eP		22 38 19
08	eP		12 55 13
08	eP		14 16 50
09	eP		02 48 13
09	eP		10 24 38
09	eP		14 04 13
09	eP		15 06 26
10	eP		14 48 59
10	eP		16 07 20
10	eP		19 47 41
11	eP		02 44 39
11	eP		05 47 55
*11	iP	D	08 17 50.3
12			Nil
*13	iP	D	08 10 34.5
13	eP		17 57 44
13	eP		20 30 59
*14	iP	D	07 59 06.7
14	eP		17 50 32
15	eP		07 18 35
16			No record
17	eP		15 16 32
17	eP		17 18 42
17	eP		19 20 24
*17	iP	C	20 44 03.6
*17	iP	D	22 05 45.6
*18	iP	D	04 15 41.5
18	eP		23 51 48
19	eP		04 45 36
19	eP		13 05 32

130km E Onslow
ML 3.2
500km SE
Esperance mB 4.7

Explosion

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	Log _e /T	International Seismological Centre
<u>MARBLE BAR (MBT)</u>			Cont. (2)				
DECEMBER 1973							
20	eP		02 47 18				
20	eP		10 56 06				
20	eP		13 29 40				
20	eP		13 43 06				
20	eP		13 45 26				
21	eP		04 40 12				
21	eP		06 12 50				Explosion
21	eP		12 08 47				
21	eP		22 57 32				
22	eP		01 29 55				
22	eP		14 28 05				
23	eP		07 44 12				
23	eP		11 21 46				
23	iP	D	23 51 48.0				
24	eP		07 57 40				
24	eP		08 19 48				
*24	iP	C	08 24 27.0				
25			Nil				
26	eP		01 51 26				
*26	iP	C	20 39 53.5				
27	eP		03 35 39				Explosion
27	eP		19 45 12				
27	eP		20 16 06				
28	eP		03 16 05				Regional
	eS		17 52				
28	eP		05 39 49				
28	eP		13 50 01				
28	eP		14 27 04				
28	eP		16 16 31				
28	eP		17 58 30				
28	eP		21 13 51				
29	eP		00 27 44				
29	eP		06 52 31				
29	eP		08 32 57				
29	eP		15 44 11				Regional
	eS		46 10				
29	eP		21 15 06				
30	eP		10 29 45				
30	eP		16 47 46				
30	eP		17 52 01				
31	eP		08 43 12				
31	eP		20 07 12				

* Sent by telegram to N.O.A.A.