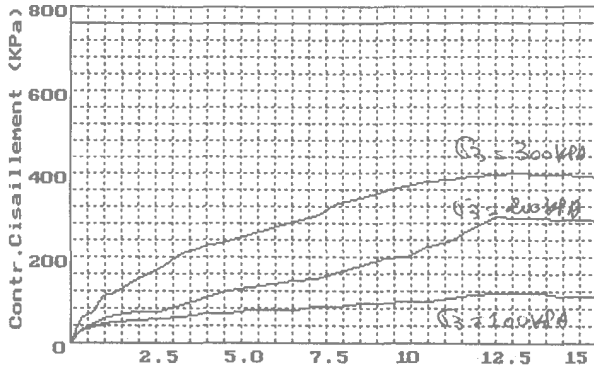


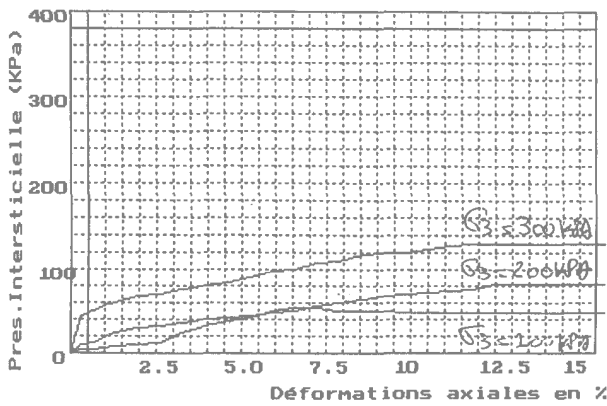
Proctor Compaction Test

Sample P1 (2.40m)

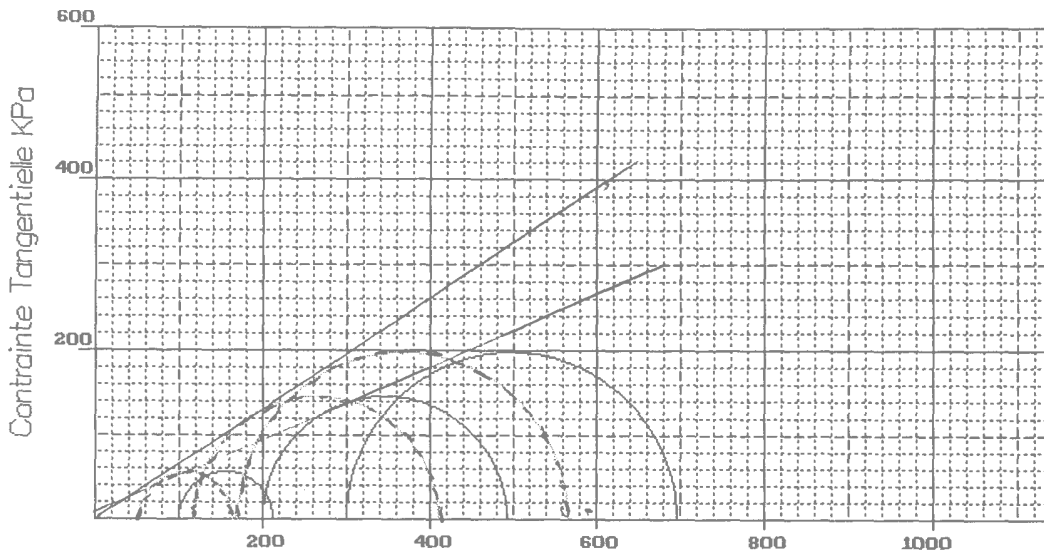


M.O. MSL4 -Essai: TCU+U-
 Dossier n°: 00-113-8-288
 Client : J.I.C.A
 Chantier : BARRAGE AZGHAR
 réf.échant: 110/3758/1 P1 a 2.40 m
 Date.écras: 14 / 12 / 2000
 Mode.ruptu: En Tonneau

Eprou.	N°	1	2	3
Contr.Normale (KPa)		100	200	300
Initial	w %	15.72	15.70	15.76
	densit. Kg/m3	1676	1681	1686
	Si %	69.5	69.9	70.8
Final	w %	20.11	19.83	17.59
	densit. Kg/m3	1769	1778	1827
	Sf %	100.2	100.2	99.4



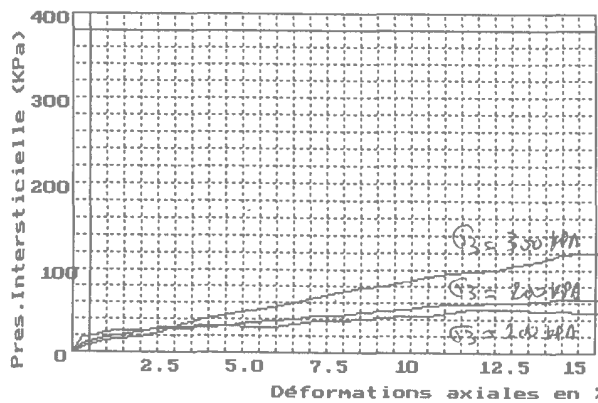
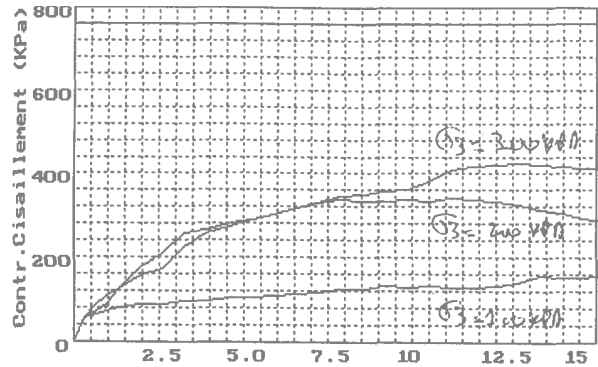
Observations :
 SOL RECONSTITUE A
 J'OPN



— : Les cercles de contraintes Totales
 - - - : Les cercles de contraintes effectives

Mode opératoire MSL 4	ESSAI TCU+U
Dossier n° : 00-113-8-288	Cohésion Ccu = 10 Kpa
Client : J.I.C.A	Ang.frott Ocu = 23°
chantier : BARRAGE AZGHAR	Cohésion C' = 0
Ref.échant : 110/3758/1 P1 a 2.40 m	Ang.frott O' = 33°

Sample P1 (3.00m)



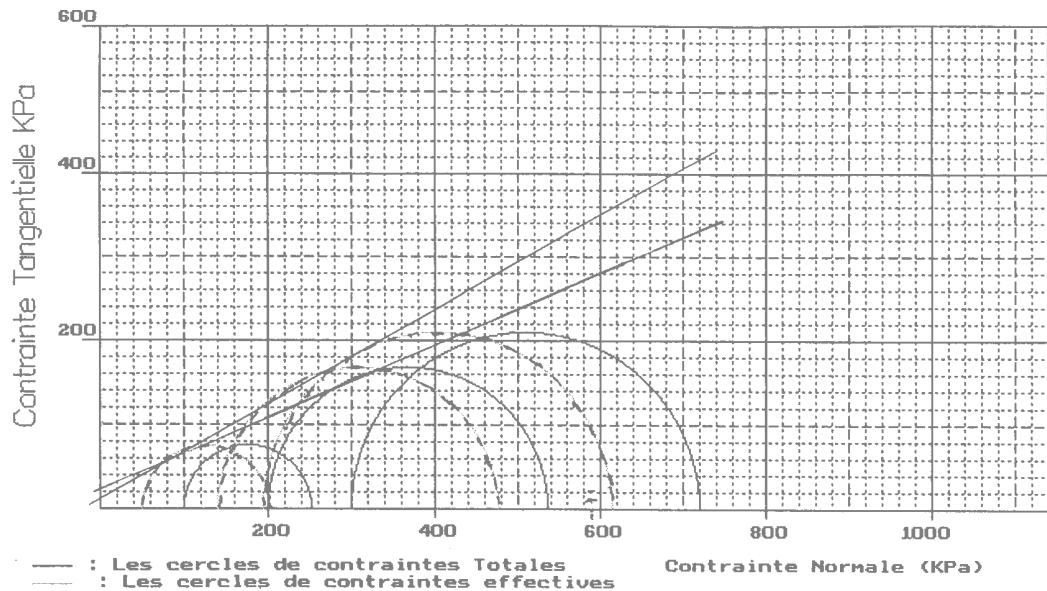
M.O. MSL4 -Essai: TCU+U-

Dossier n°: 00-113-8-288
 Client : J.I.C.A
 Chantier : BARRAGE AZGHAR
 réf.échant : 110/3758/2 P1 a 3.00 m
 Date.écras : 18 / 12 / 2000
 Mode.ruptu: En Tonneau

Eprou.	N°	1	2	3
Contr.Normale (KPa)		100	200	300
Initial	w %	16.24	16.21	16.25
	densit. Kg/m3	1668	1669	1669
Final	si %	70.9	70.9	71.0
	w %	20.88	20.62	18.27
	densit. Kg/m3	1724	1752	1806
	Sf %	99.6	100.9	99.7

Observations :

SOL RECONSTITUE a l'OPN

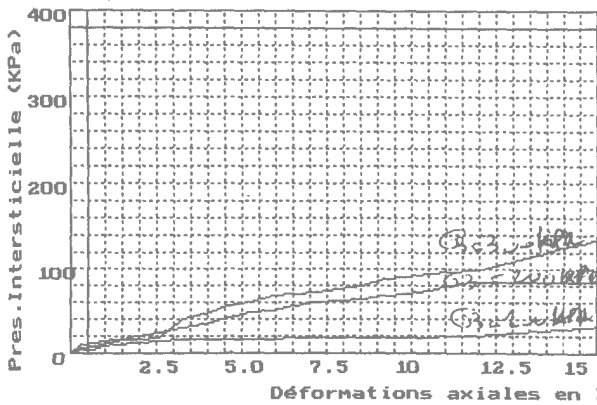
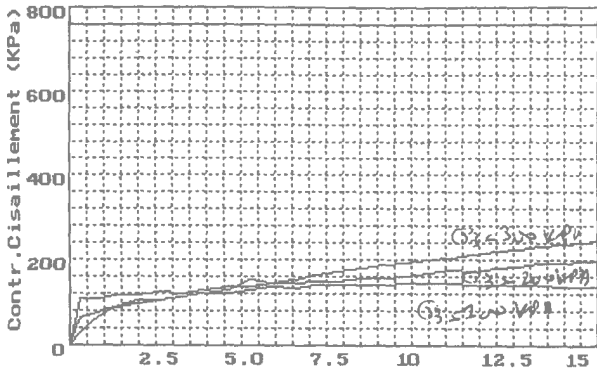


— : Les cercles de contraintes Totales
 - - - : Les cercles de contraintes effectives

Contrainte Normale (KPa)

Mode opératoire MSL 4	ESSAI TCU+U
Dossier n° : 00-13-8-288	Cohésion Ccu = 25 kPa
Client : J.I.C.A	Ang.frott Ocu = 24%
chantier : BARRAGE AZGHAR	Cohésion C' = 10 kPa
Ref.échant : 110/3758/2 P1 a 3.00m	Ang.frott O' = 30%

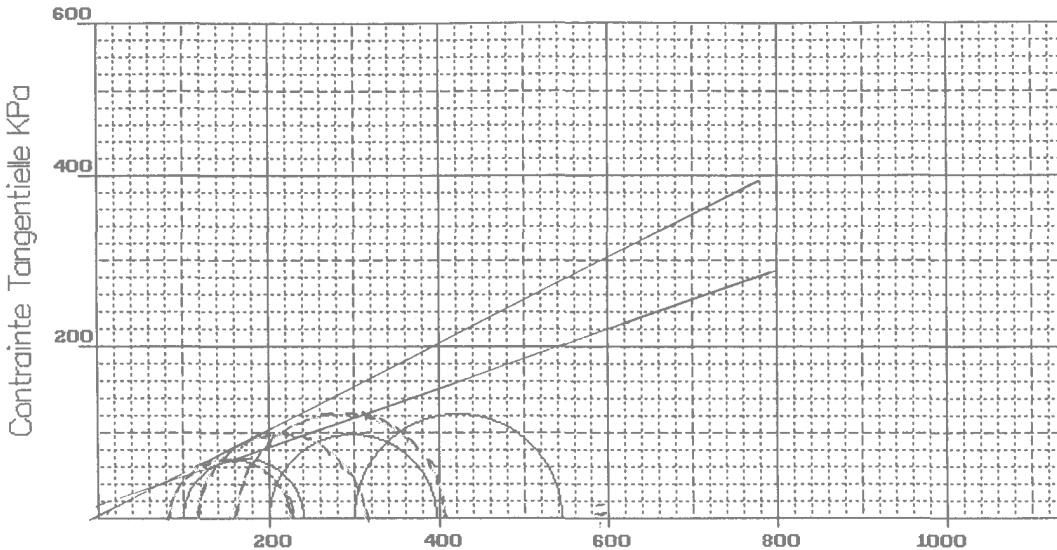
Sample P3



M.O. MSL4 -Essai: TCU+U-
 Dossier n°: 00-113-8-288
 Client : J.I.C.A
 Chantier : BARRAGE AZGHAR
 réf.échant: 110/3758/3 P3 a 1.50 m
 Date.écras: 15 / 12 / 2008
 Mode.ruptu: En Tonneau

Eprou.	N°	1	2	3
Contr.Normale (KPa)		100	200	300
Initial	w %	17.05	17.00	16.98
	densit. Kg/m3	1614	1615	1617
	Si %	68.4	68.3	68.5
Final	w %	21.00	21.21	20.72
	densit. Kg/m3	1708	1683	1696
	Sf %	97.6	94.8	94.5

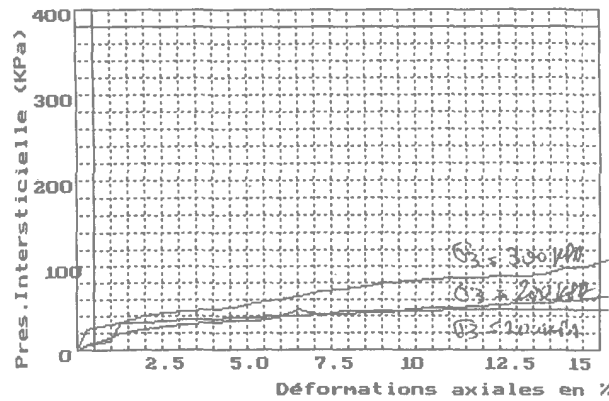
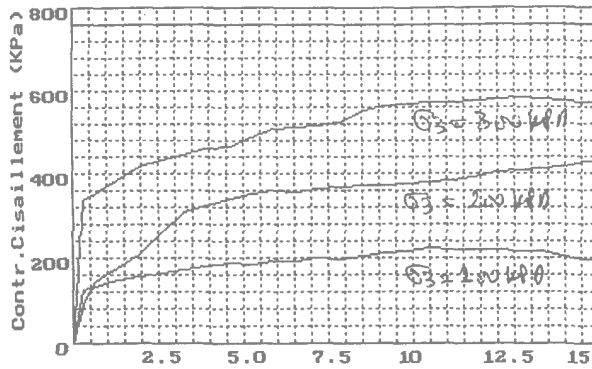
Observations :
 SOL RECONSTITUE A L'OPN



— : Les cercles de contraintes Totales
 - - - : Les cercles de contraintes effectives

Mode opératoire MSL 4	ESSAI TCU+U
Dossier n° : 00-113-8-288	Cohésion Ccu = 15 KPa
Client : J.I.C.A	Ang.frott Ocu = 19%
chantier : BARRAGE AZGHAR	Cohésion C' = 5 KPa
Ref.échant : 110/3758/3 P3 a 1.50m	Ang.frott O' = 27%

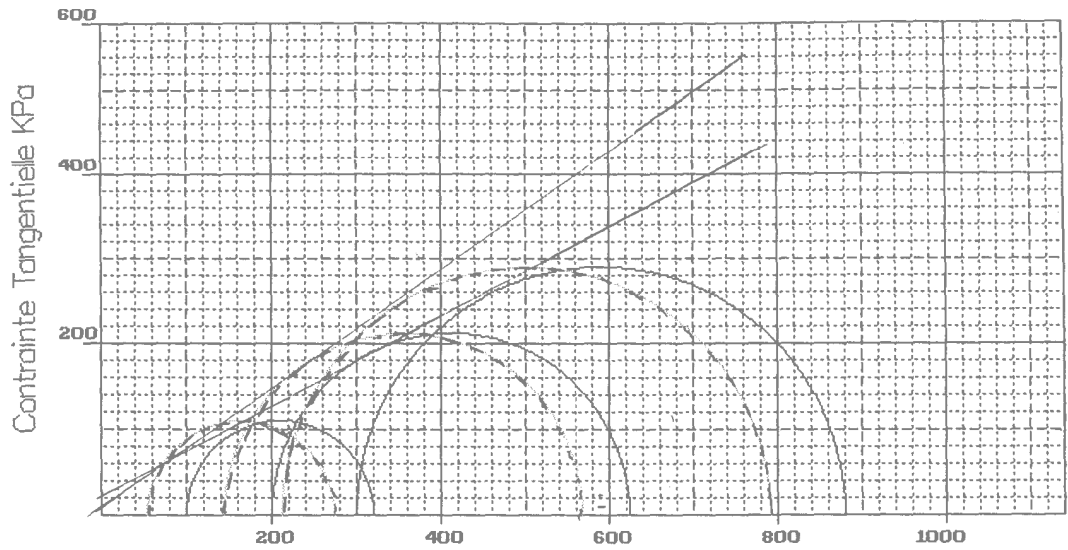
Sample P4



M.O. MSL4 -Essai: TCU+U-
 Dossier n° : 001138288
 Client : JICA
 Chantier : Barrage Azghar
 réf. échant : 110/3758/4 P4:à2.00M
 Date.écras : 20 / 12 / 2000
 Mode.ruptu: En Tonneau

Eprou.	N°	1	2	3
Contr. Normale (KPa)		100	200	300
Initial	w %	15.42	15.38	15.20
	densit. Kg/m3	1686	1684	1688
	Si %	69.2	68.8	68.5
Final	w %	19.84	18.02	18.50
	densit. Kg/m3	1735	1792	1833
	Sf %	96.3	96.0	100.6

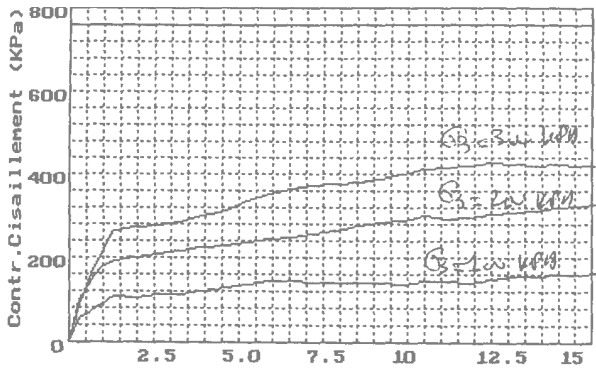
Observations :
 SOL RECONSTITUE à l'OPN



— : Les cercles de contraintes Totales
 - - : Les cercles de contraintes effectives

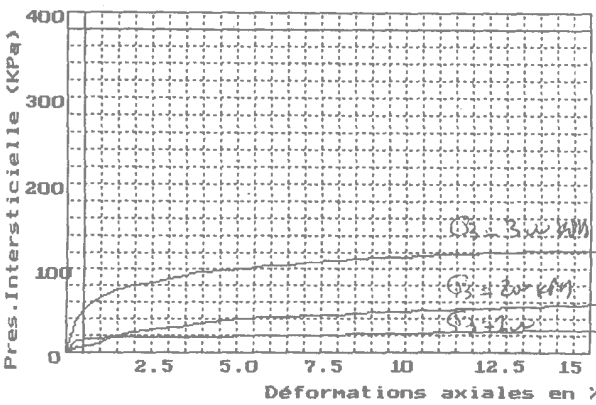
Mode opératoire MSL 4	ESSAI TCU+U
Dossier n° : 00-113-8-288	Cohésion Ccu = 20 kPa
Client : J.I.C.A	Ang.frott Ccu = 24°
chantier : BARRAGE AZGHAR	Cohésion C' = 10 kPa
Ref.échant : 110/3758/4 P4 à 2.00m	Ang.frott C' = 34°

Sample P5

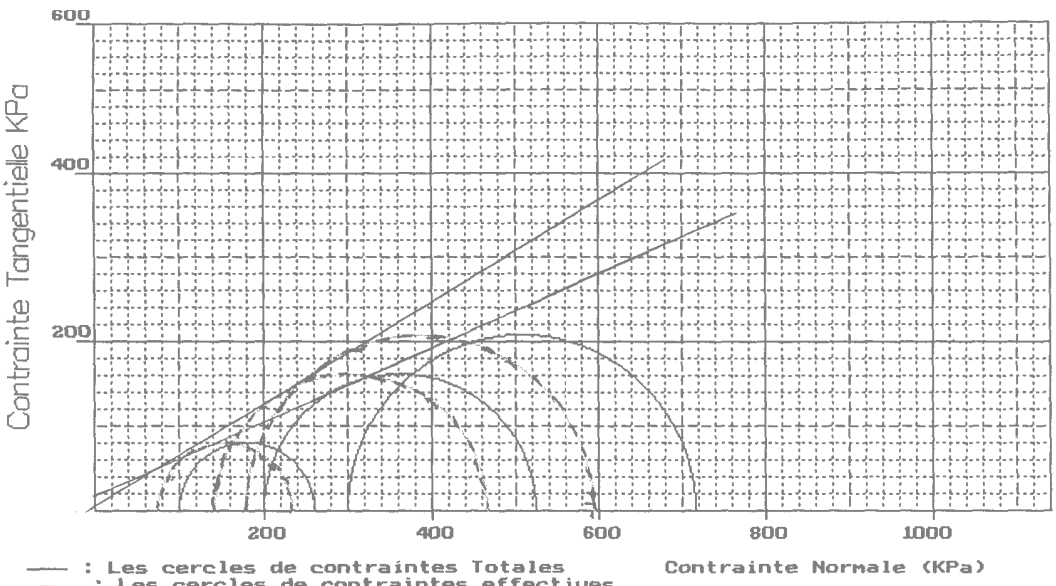


M.O. MSL4 -Essai: TCU+U-
 Dossier n°: 00-113-8-288
 Client : J.I.C.A
 Chantier : BARRAGE AZGHAR
 réf.échant: 110/3758/5 P4 a 4.30 m
 Date.écras: 22 / 12 / 2000
 Mode.ruptu: En Tonneau

Eprou.	N°	1	2	3
Contr.Normale (KPa)		100	200	300
Initial	w %	15.96	16.02	15.96
	densit. Kg/m3	1750	1755	1758
	Si %	80.4	80.3	80.4
Final	w %	17.60	18.79	17.81
	densit. Kg/m3	1802	1823	1869
	Sf %	95.4	100.5	100.2



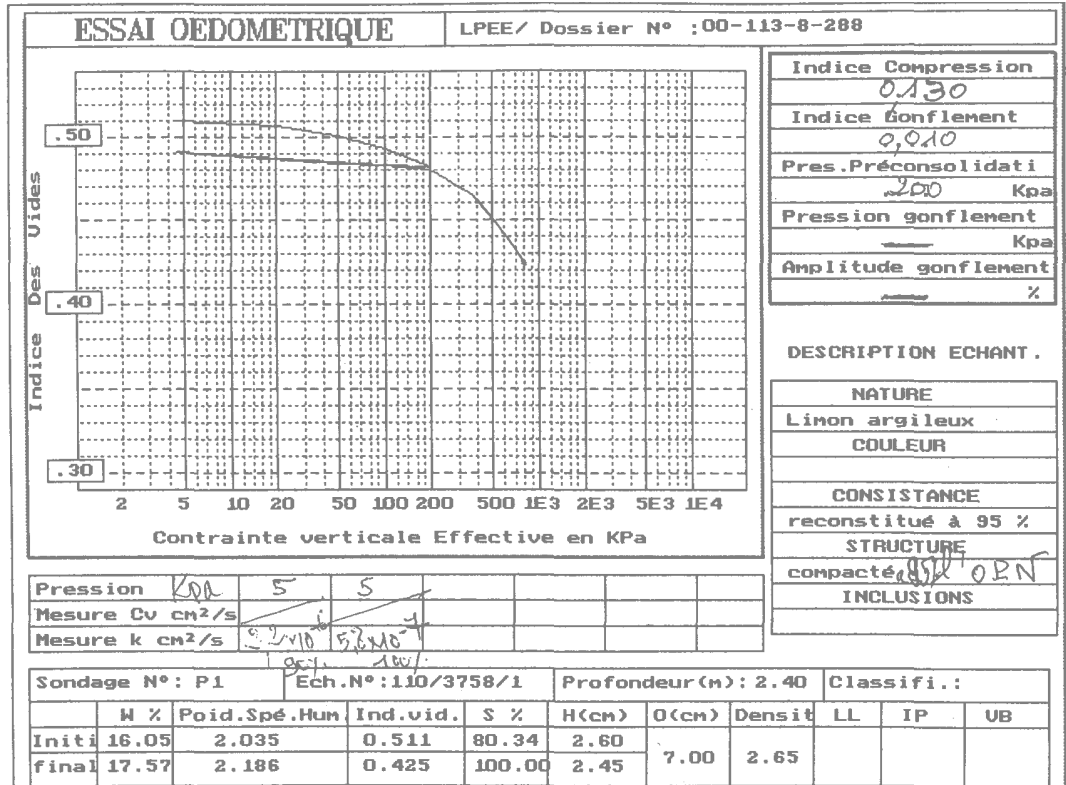
Observations :
 SOL RECONSTITUE d'OPNS



— : Les cercles de contraintes Totales
 - - : Les cercles de contraintes effectives

Mode opératoire MSL 4	ESSAI TCU+U
Dossier n° : 00-113-8-288	Cohésion c_{cu} = 20 kPa
Client : J.I.C.A	Ang.frott ϕ_{cu} = 23°
chantier : BARRAGE AZGHAR	Cohésion c' = 10 kPa
Ref.échant : 110/3758/5 P4 a 4.30m	Ang.frott ϕ' = 31°

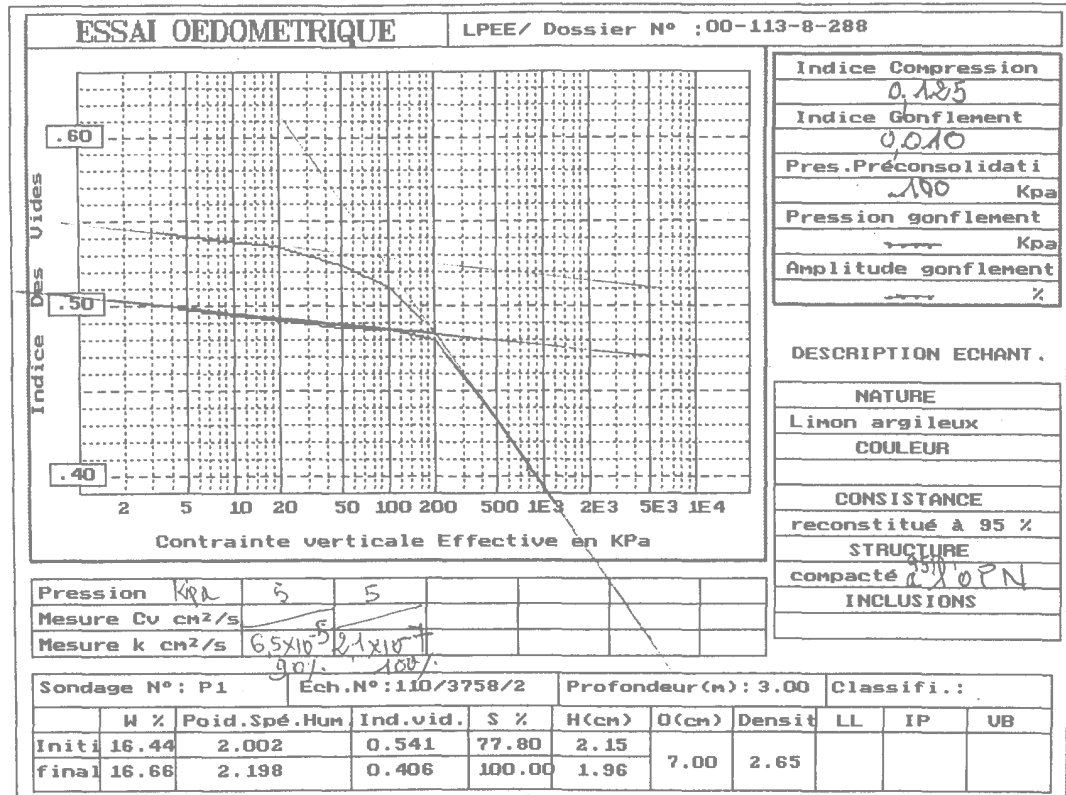
**Consolidation Test
Sample P1**



Indice Compression	0.130
Indice Gonflement	0,010
Pres.Préconsolidati	200 Kpa
Pression gonflement	Kpa
Amplitude gonflement	%

DESCRIPTION ECHANT .

NATURE	Limn argileux
COULEUR	
CONSISTANCE	reconstitué à 95 %
STRUCTURE	compacté 2×10^{-1} ORN
INCLUSIONS	

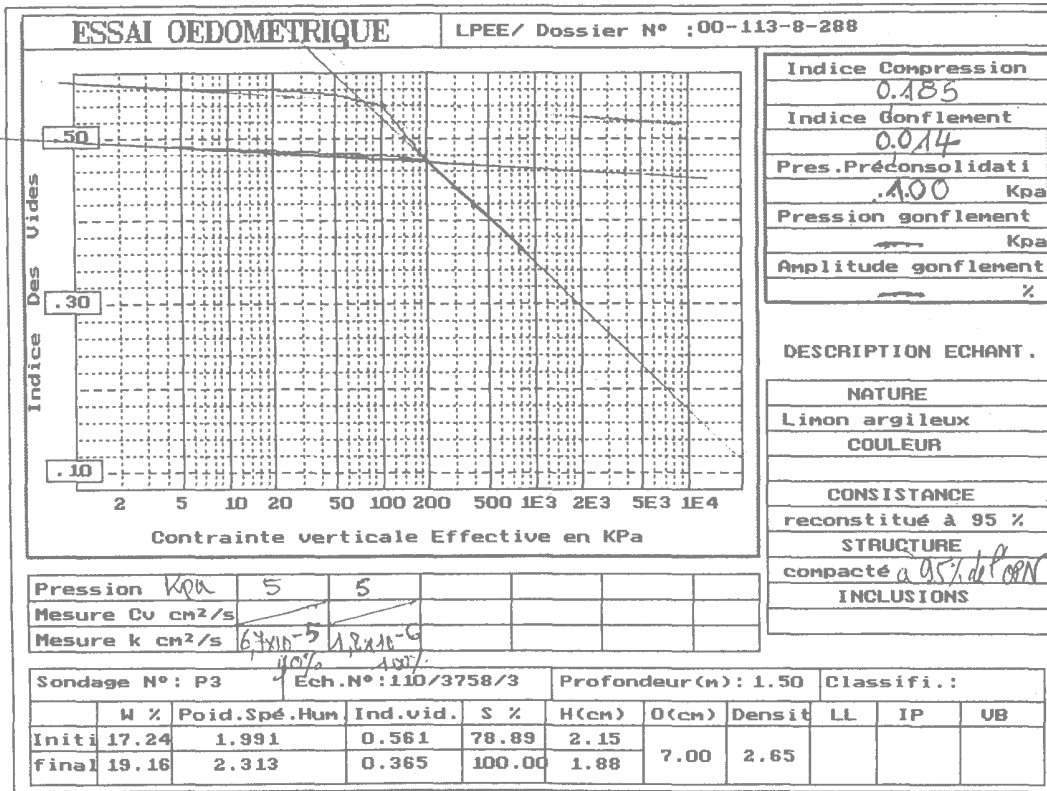


Indice Compression	0.125
Indice Gonflement	0,010
Pres.Préconsolidati	150 Kpa
Pression gonflement	Kpa
Amplitude gonflement	%

DESCRIPTION ECHANT .

NATURE	Limn argileux
COULEUR	
CONSISTANCE	reconstitué à 95 %
STRUCTURE	compacté 2×10^{-1} ORN
INCLUSIONS	

Sample P3

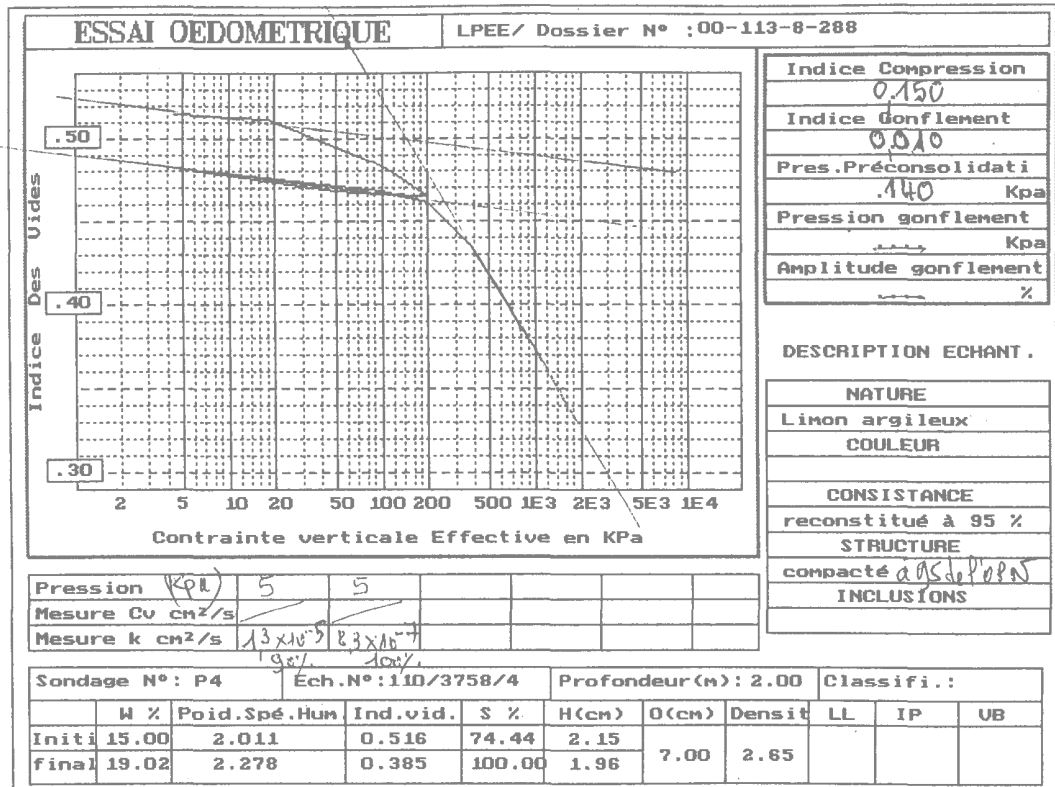


Indice Compression	0.185
Indice Gonflement	0.014
Pres.Préconsolidati	1.00 Kpa
Pression gonflement	Kpa
Amplitude gonflement	%

DESCRIPTION ECHANT.

NATURE	Linon argileux
COULEUR	
CONSISTANCE	reconstitué à 95 %
STRUCTURE	compacté à 95% de P _{opt}
INCLUSIONS	

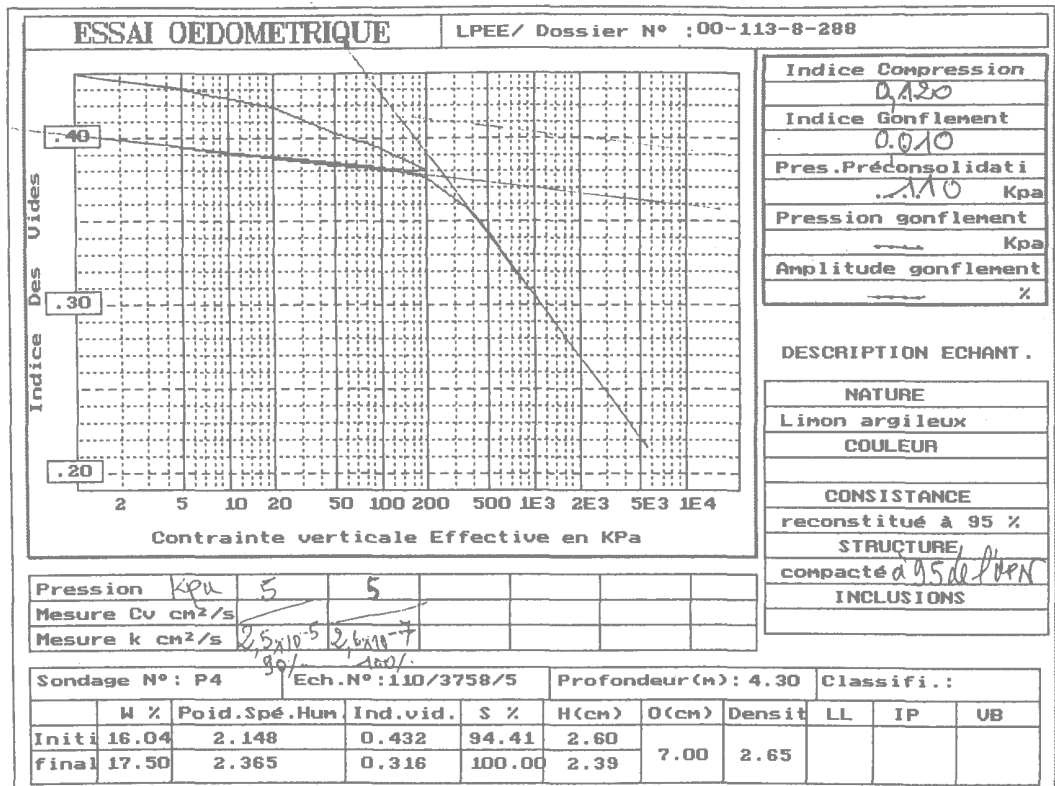
Sample P4



Indice Compression	0.150
Indice Gonflement	0.010
Pres. Préconsolidati	140 Kpa
Pression gonflement	
Amplitude gonflement	%

DESCRIPTION ECHANT.

NATURE	Linon argileux
COULEUR	
CONSISTANCE	reconstitué à 95 %
STRUCTURE	compacté à 95 de l'OPN
INCLUSIONS	



Indice Compression	0.120
Indice Gonflement	0.010
Pres. Préconsolidati	110 Kpa
Pression gonflement	
Amplitude gonflement	%

DESCRIPTION ECHANT.

NATURE	Linon argileux
COULEUR	
CONSISTANCE	reconstitué à 95 %
STRUCTURE	compacté à 95 de l'OPN
INCLUSIONS	

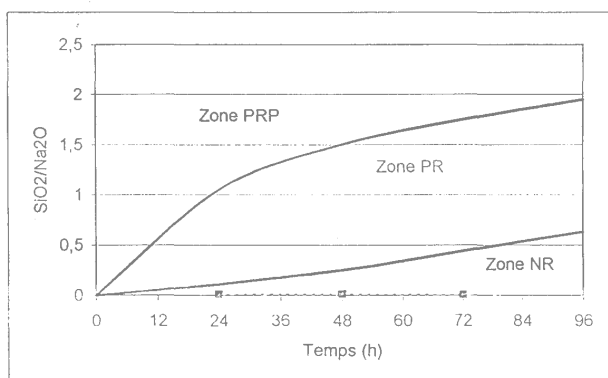
Alkali Reactivity

Sample P5-1

Test cinétique (NF P 18-598)

Demandeur : CES Casablanca, le : 14/11/2000
 Client indirecte : JICA Dossier : 00.754.9547
 Ref. échantillon : P₅₁ N° d'essai : 153162216
 Date de prélèvement: _____
 Chantier : Barrage Azghar

Réf.	Déterminations (mmol/l)	Durée de l'essai en H		
		24	48	72
P ₆	SiO ₂ soluble	22,22	23,27	25,53
	Na ₂ O en solution	956,52	782,61	782,61
	SiO ₂ /Na ₂ O	0,02	0,03	0,03

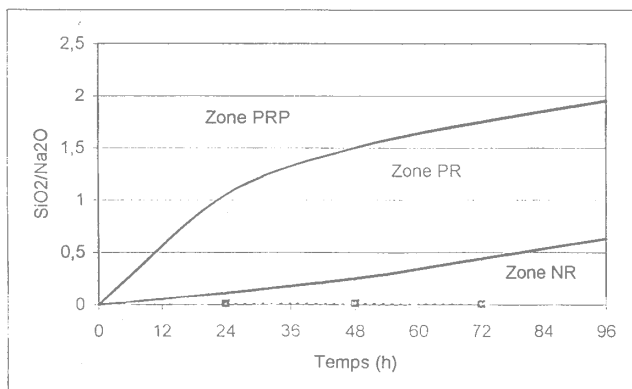


Sample P5-2

Test cinétique (NF P 18-598)

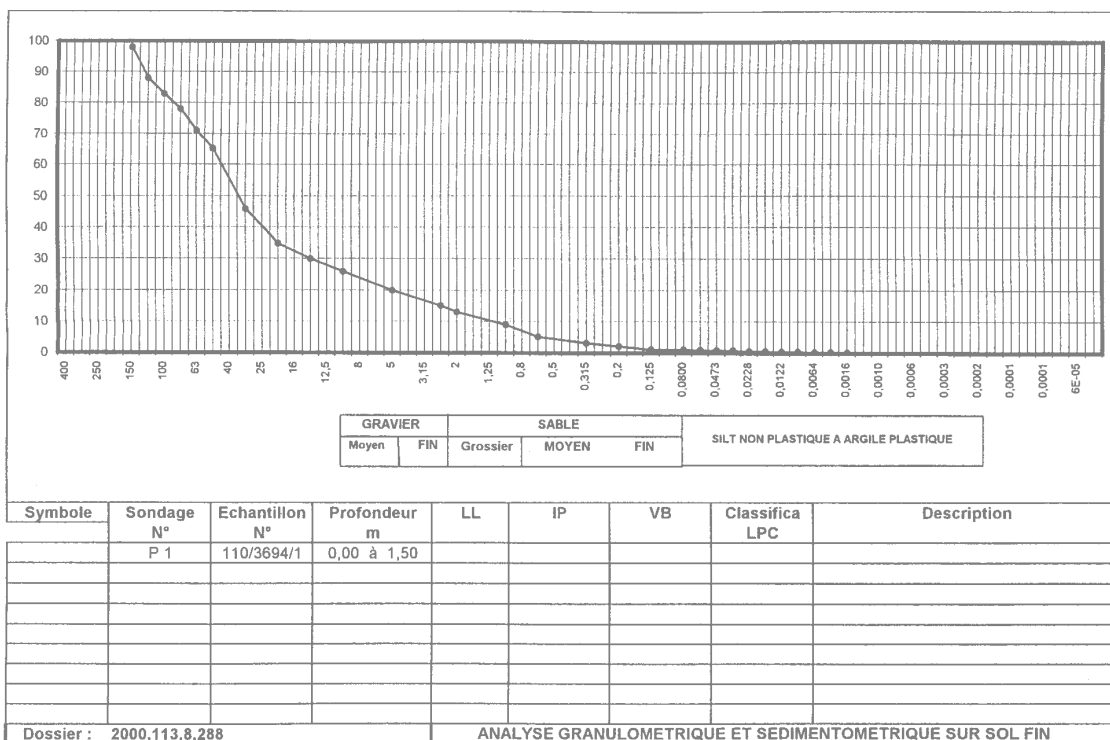
Demandeur : CES Casablanca, le : 12/11/2000
 Client indirecte : JICA Dossier : 00.754.954
 Ref. échantillon : P₅₂ N° d'essai : 153162217
 Date de prélèvement: _____
 Chantier : Barrage Azghar

Réf.	Déterminations (mmol/l)	Durée de l'essai en H		
		24	48	72
P ₇	SiO ₂ soluble	20,15	20,71	29,46
	Na ₂ O en solution	1043,48	869,56	782,61
	SiO ₂ /Na ₂ O	0,02	0,02	0,02

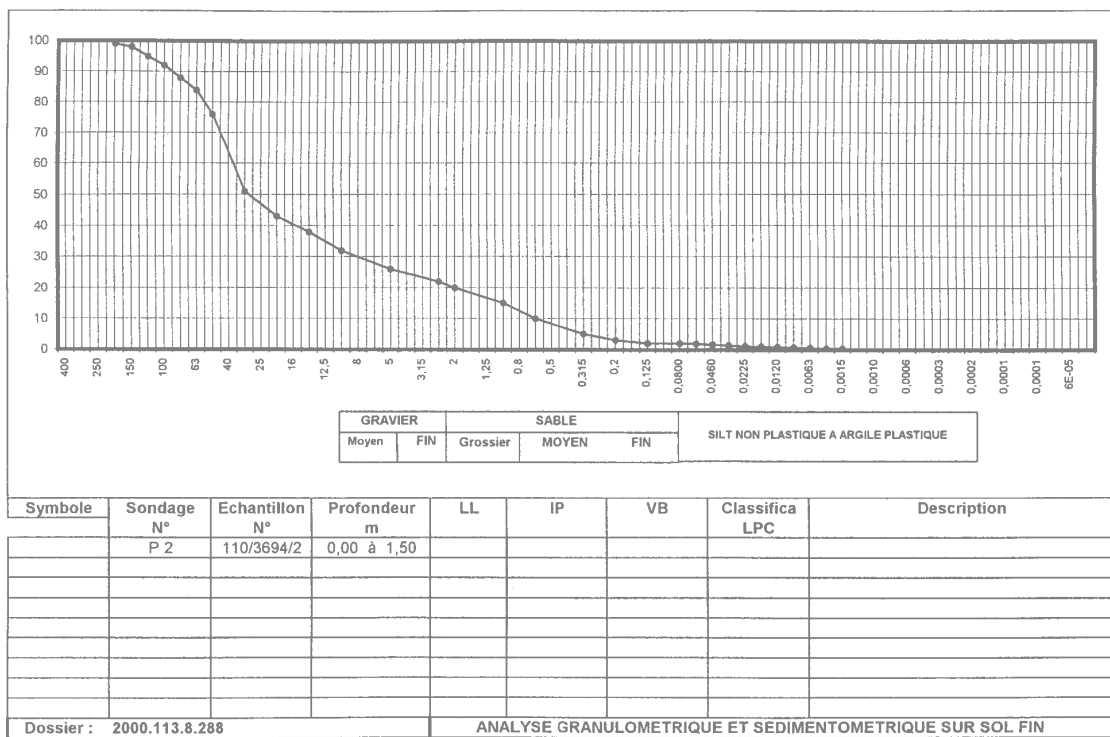


09 Taskourt Dam

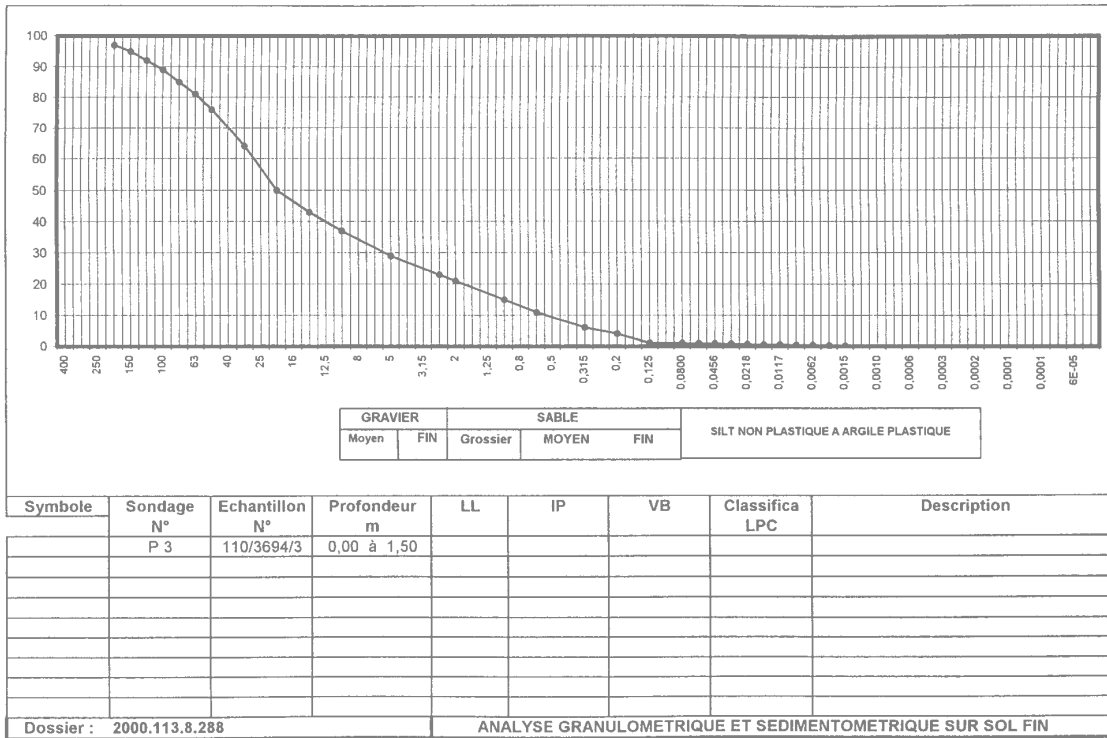
**Grain Size Analysis
Sample P1**



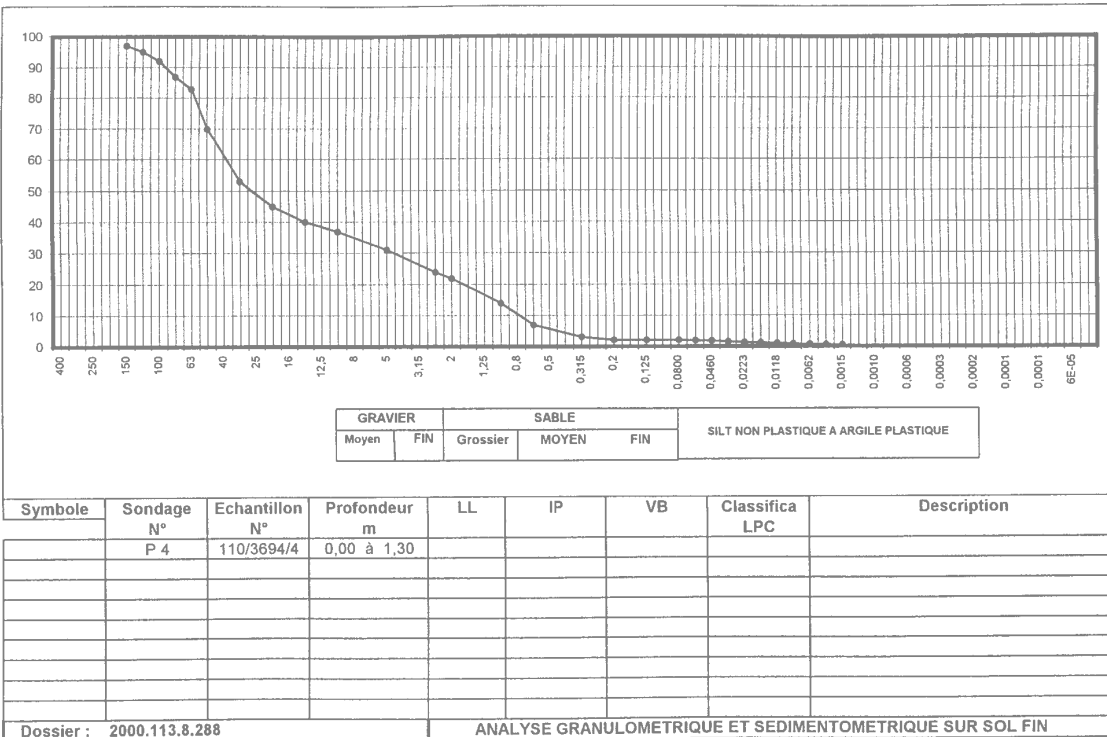
Sample P2



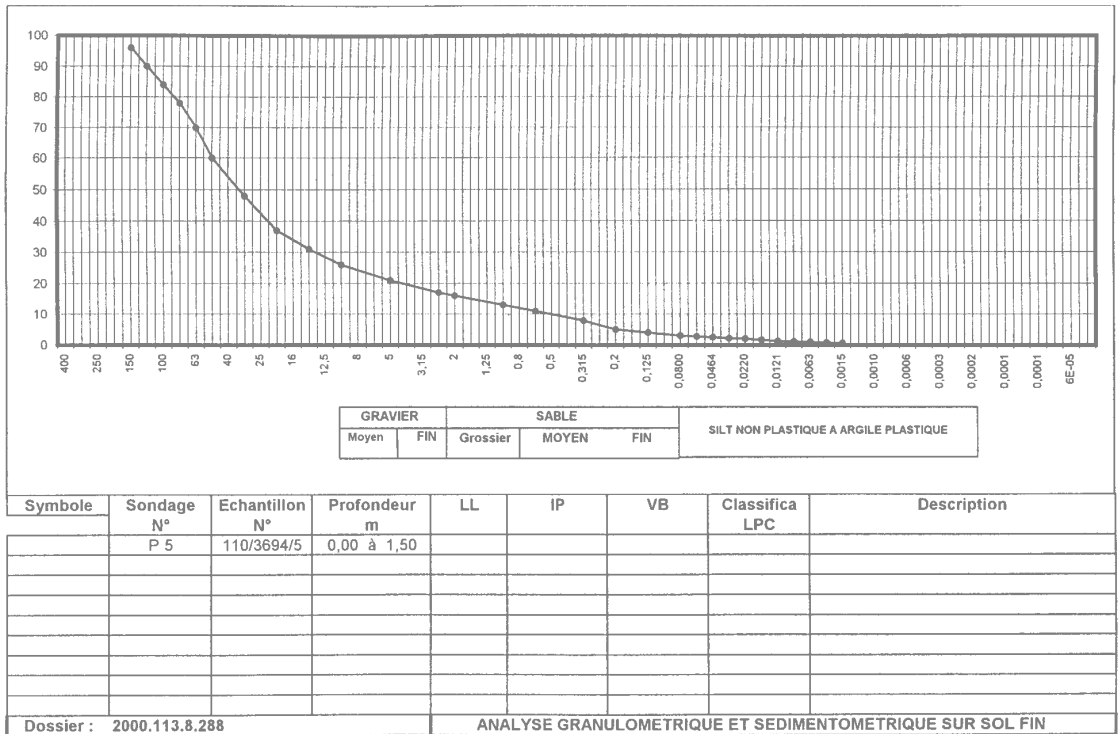
Sample P3



Sample P4



Sample P5



Weathering Resistance Test Sample P1

a- classe 0,08 – 5 mm :

Classe granulaire	0.315/0.63	0.63/1.25	1.25/2.5	2.5/5
Nombre de cycle	5	5	5	5
Perte pondérée par fraction $P_p = \frac{P_r}{100} \times (\%)$	0,73	0,89	0,69	1,06

Perte Totale $P = \sum pp (\%)$	P = 3,37 %
------------------------------------	-------------------

Solution utilisée	
Sulfate de sodium <input type="checkbox"/>	Sulfate de magnésium <input checked="" type="checkbox"/>

b- classe 5 – 80 mm :

Classe granulaire	5/10	10/20	20/40	40/63
Nombre de cycle	5	5	5	5
Perte pondérée par fraction $P_p = \frac{P_r}{100} \times (\%)$	0,17	0,17	0,21	0,05

Perte Totale $P = \sum pp (\%)$	P = 0,60 %
------------------------------------	-------------------

Solution utilisée	
Sulfate de sodium <input type="checkbox"/>	Sulfate de magnésium <input checked="" type="checkbox"/>

Sample P2

a- classe 0,08 – 5 mm :

Classe granulaire	0.315/0.63	0.63/1.25	1.25/2.5	2.5/5
Nombre de cycle	5	5	5	5
Perte pondérée par fraction $P_p = \frac{P_r}{100} \times (\%)$	0,77	0,76	0,41	0,65

Perte Totale $P = \sum pp (\%)$	P = 2,59 %
------------------------------------	-------------------

Solution utilisée	
Sulfate de sodium <input type="checkbox"/>	Sulfate de magnésium <input checked="" type="checkbox"/>

b- classe 5 – 80 mm :

Classe granulaire	5/10	10/20	20/40	40/63
Nombre de cycle	5	5	5	5
Perte pondérée par fraction $P_p = \frac{P_r}{100} \times (\%)$	0,17	0,25	0,48	0,10

Perte Totale $P = \sum pp (\%)$	P = 1 %
------------------------------------	----------------

Solution utilisée	
Sulfate de sodium <input type="checkbox"/>	Sulfate de magnésium <input checked="" type="checkbox"/>

Sample P3

a- classe 0,08 – 5 mm :

Classe granulaire	0.315/0.63	0.63/1.25	1.25/2.5	2.5/5
Nombre de cycle	5	5	5	5
Perte pondérée par fraction $P_p = \frac{P_r}{100} \times (\%)$	0,64	0,37	1,05	1,24

Perte Totale	P = 3,3 %
$P = \sum pp (\%)$	

Solution utilisée	
Sulfate de sodium <input type="checkbox"/>	Sulfate de magnésium <input checked="" type="checkbox"/>

b- classe 5 – 80 mm :

Classe granulaire	5/10	10/20	20/40	40/63
Nombre de cycle	5	5	5	5
Perte pondérée par fraction $P_p = \frac{P_r}{100} \times (\%)$	0,20	0,13	0,47	0,13

Perte Totale	P = 0,93 %
$P = \sum pp (\%)$	

Solution utilisée	
Sulfate de sodium <input type="checkbox"/>	Sulfate de magnésium <input checked="" type="checkbox"/>

Sample P4

a- classe 0,08 – 5 mm :

Classe granulaire	0.315/0.63	0.63/1.25	1.25/2.5	2.5/5
Nombre de cycle	5	5	5	5
Perte pondérée par fraction $P_p = \frac{P_r}{100} \times (\%)$	0,63	1,03	0,55	0,98

Perte Totale	P = 3,19 %
$P = \sum pp (\%)$	

Solution utilisée	
Sulfate de sodium <input type="checkbox"/>	Sulfate de magnésium <input checked="" type="checkbox"/>

b- classe 5 – 80 mm :

Classe granulaire	5/10	10/20	20/40	40/63
Nombre de cycle	5	5	5	5
Perte pondérée par fraction $P_p = \frac{P_r}{100} \times (\%)$	0,12	0,22	0,62	0,08

Perte Totale	P = 1,04 %
$P = \sum pp (\%)$	

Solution utilisée	
Sulfate de sodium <input type="checkbox"/>	Sulfate de magnésium <input checked="" type="checkbox"/>

Sample P5

a- classe 0,08 – 5 mm :

Classe granulaire	0.315/0.63	0.63/1.25	1.25/2.5	2.5/5
Nombre de cycle	5	5	5	5
Perte pondérée par fraction $P_p = \frac{P_f}{100} \times (\%)$	1,08	1,02	0,44	0,88

Perte Totale $P = \sum pp (\%)$	P = 3,42 %
------------------------------------	-------------------

Solution utilisée	
Sulfate de sodium <input type="checkbox"/>	Sulfate de magnésium <input checked="" type="checkbox"/>

b- classe 5 – 80 mm :

Classe granulaire	5/10	10/20	20/40	40/63
Nombre de cycle	5	5	5	5
Perte pondérée par fraction $P_p = \frac{P_f}{100} \times (\%)$	0,10	0,13	0,23	0,09

Perte Totale $P = \sum pp (\%)$	P = 0,55 %
------------------------------------	-------------------

Solution utilisée	
Sulfate de sodium <input type="checkbox"/>	Sulfate de magnésium <input checked="" type="checkbox"/>

Superficial Cleanness

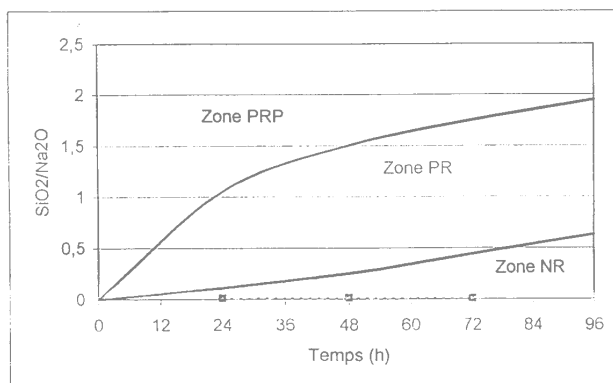
Référence échantillon	CEB	140-4787-1	140-4787-2	140-4787-3	140-4787-4	140-4787-5
	CES	P 1	P 2	P 3	P 4	P 5
Propreté superficielle P (%) NF P18-591		0,2	0,2	0,3	0,2	0,1

Alkali Reactivity
Sample P1

Test cinétique (NF P 18-598)

Demandeur : CES Casablanca, le : 19/12/2000
 Client indirecte : JICA Dossier : 00.154.9.547
 Ref. échantillon : P₁ N° d'essai : 1531623/1
 Date de prélèvement: _____
 Chantier : Barrage Taskourt

Réf.	Déterminations (mmol/l)	Durée de l'essai en H		
		24	48	72
P ₁	SiO ₂ soluble	11,36	19,17	24,05
	Na ₂ O en solution	869,56	782,61	782,61
	SiO ₂ /Na ₂ O	0,01	0,02	0,02

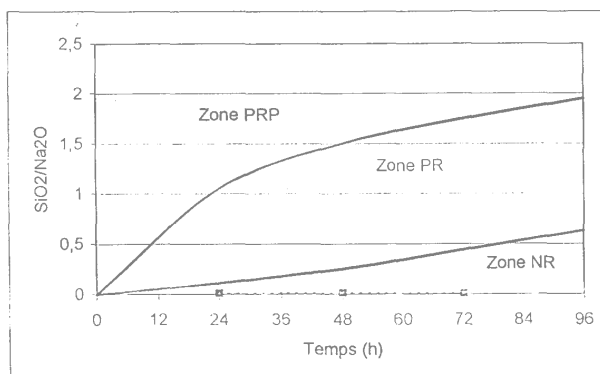


Sample P2

Test cinétique (NF P 18-598)

Demandeur : CES Casablanca, le : 19/12/2000
 Client indirecte : JICA Dossier : 00.154.9.54
 Ref. échantillon : P₂ N° d'essai : 1531623/2
 Date de prélèvement: _____
 Chantier : Barrage Taskourt

Réf.	Déterminations (mmol/l)	Durée de l'essai en H		
		24	48	72
P ₂	SiO ₂ soluble	9,26	10,88	18,96
	Na ₂ O en solution	1043,48	869,56	782,61
	SiO ₂ /Na ₂ O	0,008	0,02	0,02

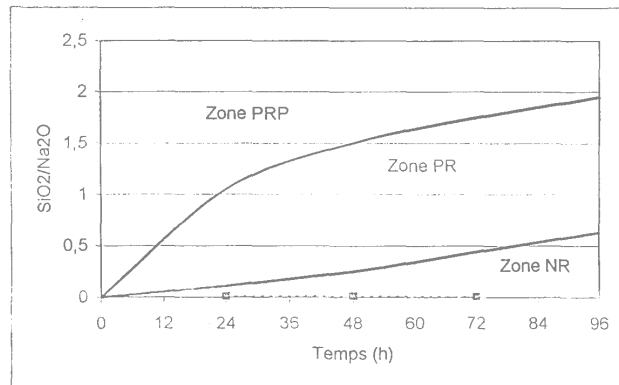


Sample P3

Test cinétique (NF P 18-598)

Casablanca, le : 19/12/2000
 Demandeur : CES
 Client indirecte : JICA Dossier : 00.154.9.547
 Ref. échantillon : P₃ N° d'essai : 15316213
 Date de prélèvement :
 Chantier : Barrage Tasbourt

Réf.	Déterminations (mmol/l)	Durée de l'essai en H		
		24	48	72
P ₃	SiO ₂ soluble	18,82	22,98	22,87
	Na ₂ O en solution	956,52	782,61	782,61
	SiO ₂ /Na ₂ O	0,02	0,03	0,03

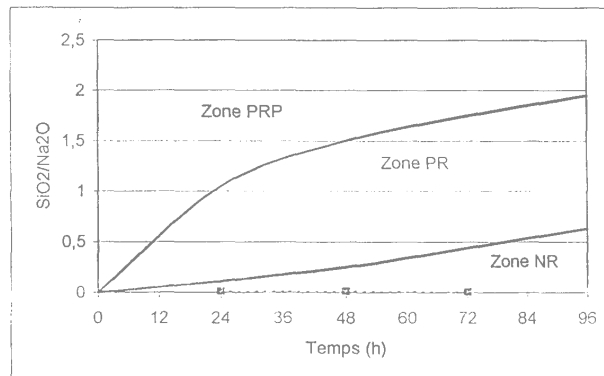


Sample P4

Test cinétique (NF P 18-598)

Casablanca, le : 19/12/2000
 Demandeur : CES
 Client indirecte : JICA Dossier : 00.154.9.547
 Ref. échantillon : P₄ N° d'essai : 15316214
 Date de prélèvement :
 Chantier : Barrage Tasbourt

Réf.	Déterminations (mmol/l)	Durée de l'essai en H		
		24	48	72
P ₄	SiO ₂ soluble	11,13	15,65	18,91
	Na ₂ O en solution	1043,48	956,52	782,61
	SiO ₂ /Na ₂ O	0,01	0,02	0,02

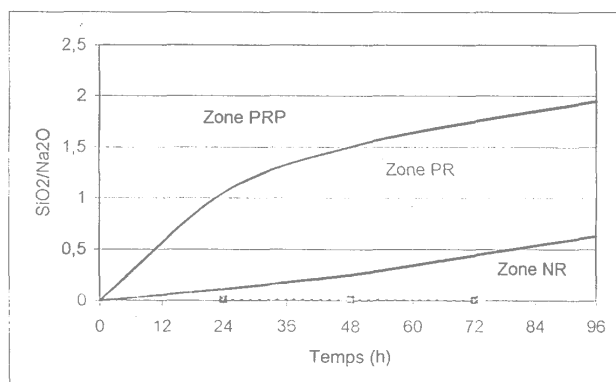


Sample P5

Test cinétique (NF P 18-598)

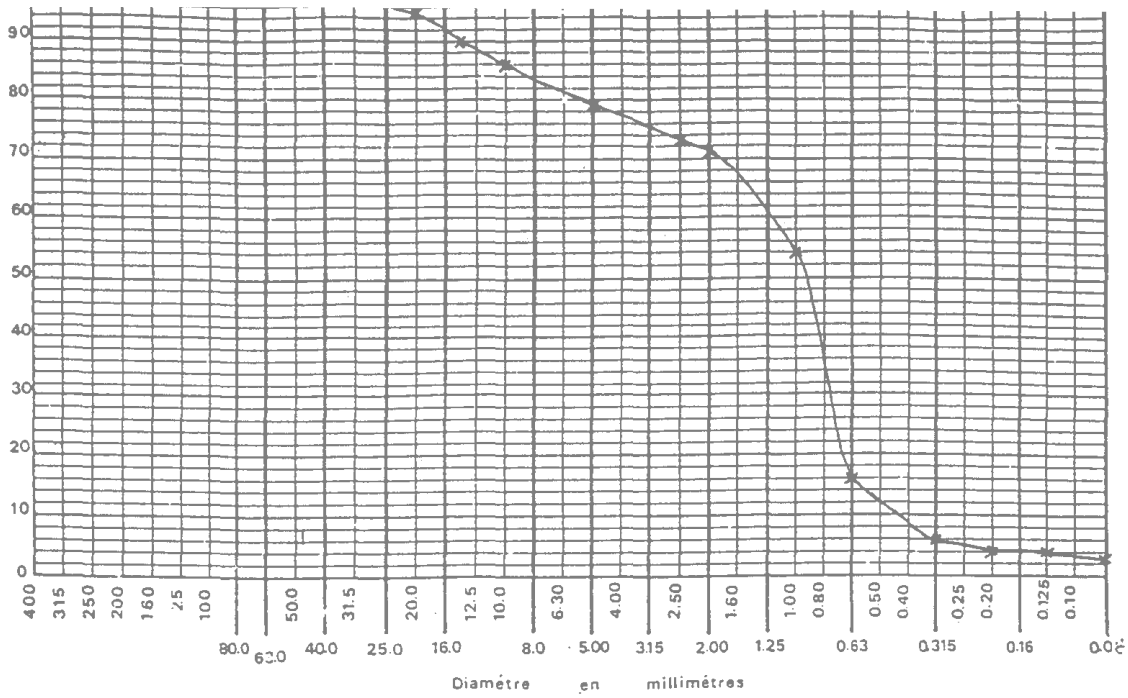
Demandeur : CES Casablanca, le : 19/12/2000
 Client indirecte : JICA Dossier : 00154.9547
 Ref. échantillon : P5 N° d'essai : 153/62315
 Date de prélèvement: _____
 Chantier : Barrière Tas Bourc

Réf.	Déterminations (mmol/l)	Durée de l'essai en H		
		24	48	72
P5	SiO ₂ soluble	15,98	18,94	20,09
	Na ₂ O en solution	869,56	869,56	782,61
	SiO ₂ /Na ₂ O	0,02	0,02	0,02



Tinjidad Basin

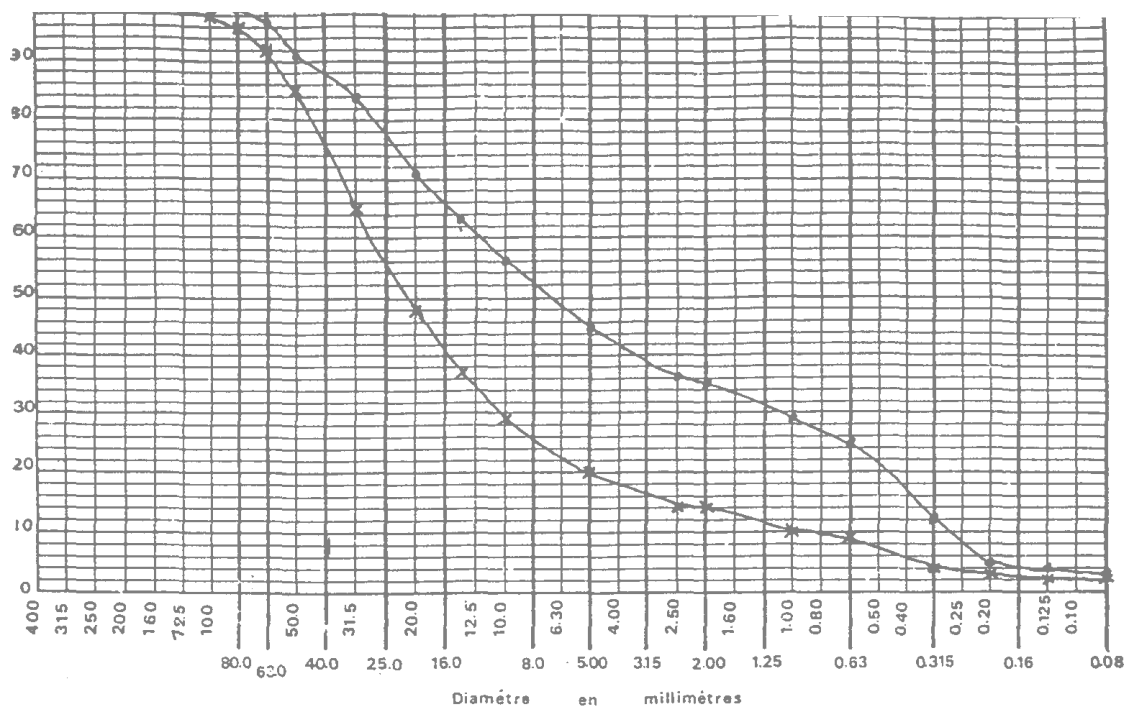
**Grain Size Analysis
Sample PS3**



PIERRES	GRAVIER			SABLE		
	GROSSIER	MOYEN	FIN	GROSSIER	MOYEN	FIN

Symbole	Sondage n°	Echantillon n°	Profondeur (m)	LL	IP	VB	Classification LPC	Description
X	PS3	110/3833/4	0,20/1,50					

Grain Size Analysis Sample GS1 & GS2



PIERRES	GRAVIER			SABLE		
	GROSSIER	MOYEN	FIN	GROSSIER	MOYEN	FIN

Symbole	Sondage n°	Echantillon n°	Profondeur (m)	LL	IP	VB	Classification LPC	Description.
x —	GS1	110/3833/1	0,00/1,50					
● —	GS2	110/3833/2	0,00/0,60					

*Feasibility Study on Water Resources Development in
Rural Area in the
Kingdom of Morocco
Final Report
Volume VII Data Book
Data Book GC
Geology and Construction Material*

***GC6 Seismic Event Data around Morocco
(the data of over 4 in magnitude:
available data in the year 1900 – 1999)***

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1910	6	24	13	28	30.00	36.050	3.416	0.0	6.40
1912	8	6	18	44	13.00	37.166	4.333	0.0	5.30
1915	7	11	11	29	16.00	35.500	-11.799	0.0	6.20
1922	8	25	11	47	49.00	36.416	1.200	0.0	5.10
1922	11	19	17	4	56.00	36.283	1.083	0.0	5.60
1924	11	5	18	54	34.00	36.649	2.899	0.0	5.20
1925	6	10	16	45	2.00	35.916	2.700	0.0	4.90
1925	7	7	18	28	50.00	39.300	-8.683	0.0	4.60
1925	8	20	23	1	20.00	39.583	2.166	0.0	4.30
1926	4	5	23	29	19.00	39.000	-29.000	50.0	6.00
1926	6	12	23	29	22.00	36.766	-2.366	0.0	4.50
1926	7	9	15	5	34.00	38.000	-30.000	0.0	5.60
1926	8	18	15	54	44.00	37.050	-4.766	0.0	4.30
1926	8	31	10	40	8.00	38.500	-28.000	0.0	5.60
1926	10	11	6	39	18.00	35.699	-2.783	0.0	4.50
1926	10	15	6	48	20.00	35.699	-2.783	0.0	4.40
1926	10	19	4	35	8.00	35.699	-2.783	0.0	4.10
1926	11	17	21	21	31.00	35.683	-3.366	0.0	4.50
1926	12	18	14	44	54.00	38.783	-9.166	0.0	4.40
1927	5	18	1	42	23.00	38.733	-8.333	0.0	4.20
1927	9	8	8	52	50.00	35.333	-3.666	0.0	4.60
1927	9	12	16	48	27.00	35.333	-3.666	0.0	4.10
1927	11	8	4	1	52.00	37.416	-9.416	0.0	4.20
1927	12	3	10	9	8.00	35.733	-3.583	0.0	4.20
1928	8	24	9	44	55.00	35.966	0.916	0.0	5.40
1929	1	11	1	52	44.00	35.533	-0.200	0.0	4.50
1929	3	28	11	3	16.00	36.783	-5.433	0.0	4.70
1929	8	14	6	38	36.00	35.750	-3.666	0.0	4.40
1930	2	10	8	5	1.00	37.133	-8.333	0.0	4.10
1930	7	5	23	11	44.00	37.616	-4.633	0.0	4.90
1930	8	9	18	9	38.00	34.300	-5.399	0.0	4.70
1930	8	13	3	20	45.00	34.300	-5.399	0.0	4.40
1930	10	21	19	5	51.00	36.500	-23.000	0.0	5.60
1930	12	24	14	27	43.00	34.500	-4.000	0.0	4.30
1931	1	26	3	16	15.00	38.633	-1.183	0.0	4.00
1931	5	20	2	24	0.00	37.600	-16.498	0.0	7.10
1931	7	10	16	52	24.00	36.050	-2.533	0.0	4.40
1931	8	15	13	52	18.00	36.100	3.700	0.0	5.20
1931	9	10	21	19	44.00	35.616	-2.883	0.0	4.20
1931	11	2	14	58	8.00	36.466	2.833	0.0	4.60
1932	3	5	5	21	46.00	37.416	-2.450	0.0	4.00

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1932	3	5	2	10	26.00	37.416	-2.450	0.0	4.80
1933	4	11	2	30	18.00	37.266	-5.533	0.0	4.00
1933	4	11	3	7	32.00	37.266	-5.533	0.0	4.20
1933	7	18	6	4	58.00	36.033	-4.766	0.0	4.60
1933	8	15	0	45	4.00	38.000	-26.499	0.0	5.60
1934	9	7	3	39	17.00	36.233	1.716	0.0	5.00
1934	11	7	14	33	50.00	36.800	1.883	0.0	4.50
1934	11	12	8	31	51.00	37.750	-7.833	0.0	4.50
1935	3	11	7	52	24.00	37.966	-0.683	0.0	4.10
1935	6	27	17	27	4.00	37.416	-3.266	0.0	4.20
1935	10	18	7	54	20.00	34.833	-4.000	0.0	4.20
1935	11	15	7	39	11.00	37.333	-2.450	0.0	4.10
1935	11	15	6	58	2.00	35.416	-4.000	0.0	4.20
1936	1	4	14	26	20.00	38.583	-9.750	0.0	4.30
1936	3	16	10	5	1.00	36.116	-5.183	0.0	4.40
1936	4	21	2	1	2.00	36.699	-5.333	0.0	4.00
1936	5	3	11	25	50.00	36.733	-5.250	0.0	4.10
1936	5	5	3	11	0.00	36.733	-5.250	0.0	4.20
1936	5	28	0	28	47.00	36.699	-5.333	0.0	4.60
1936	6	13	0	36	59.00	38.233	-1.416	0.0	4.50
1937	7	20	0	27	7.00	36.833	-2.466	0.0	4.10
1937	8	21	23	55	16.00	35.100	-8.799	0.0	4.80
1937	10	23	17	23	14.00	36.416	-2.500	0.0	4.30
1937	12	30	2	6	45.40	38.803	-0.666	5.0	4.70
1938	3	30	15	6	6.00	33.500	-6.250	0.0	5.10
1938	7	11	9	6	40.00	37.100	-3.650	0.0	4.00
1938	12	12	19	46	26.00	38.983	-0.683	0.0	4.50
1939	5	8	1	46	50.00	37.000	-24.499	0.0	7.10
1939	8	19	23	36	43.00	36.866	-4.033	0.0	4.30
1940	3	5	1	50	25.00	36.866	-5.333	0.0	4.60
1940	3	6	11	30	52.00	36.866	-5.333	0.0	4.00
1940	7	5	20	54	40.00	36.666	-4.000	0.0	4.20
1940	8	15	11	32	50.00	36.633	-6.500	0.0	4.10
1940	8	17	3	33	27.00	35.433	-4.000	0.0	4.10
1940	8	17	22	58	15.00	36.616	-2.500	0.0	4.30
1940	9	18	7	13	0.00	34.666	3.250	0.0	5.00
1941	6	12	13	55	30.00	36.300	-3.183	0.0	4.80
1941	7	19	9	24	15.00	38.500	-32.000	0.0	5.60
1941	11	24	0	53	58.00	38.199	-1.766	0.0	4.10
1941	11	25	18	3	55.00	37.416	-19.016	0.0	8.20
1941	12	6	0	33	56.00	35.583	-3.250	0.0	4.50

GC6-2

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1941	12	27	18	17	38.00	35.800	-10.000	0.0	5.50
1942	2	28	0	55	18.00	35.433	-9.750	0.0	5.10
1942	5	29	5	32	3.00	38.000	-19.000	0.0	5.70
1942	7	20	9	43	47.00	35.300	-4.100	0.0	4.20
1942	10	14	8	26	3.00	38.800	-0.883	0.0	4.30
1943	4	16	11	43	16.00	36.083	4.549	0.0	5.00
1943	5	6	1	29	40.00	37.916	-2.416	0.0	4.00
1943	6	7	12	37	35.00	36.083	4.549	0.0	4.40
1943	6	10	7	47	31.00	36.083	4.549	0.0	4.60
1943	11	11	22	57	7.00	37.133	-1.716	0.0	4.20
1943	11	30	0	12	4.00	37.266	-6.083	0.0	4.00
1944	2	16	3	58	48.00	37.366	-2.383	0.0	4.10
1944	4	16	22	11	11.00	34.900	-3.500	0.0	4.00
1944	9	30	17	13	34.00	36.833	-3.949	0.0	4.10
1944	12	21	4	35	28.00	37.649	-3.450	0.0	4.00
1945	4	27	14	43	47.00	36.666	-0.583	0.0	4.40
1945	5	6	18	24	38.00	35.400	-2.899	0.0	4.00
1945	5	14	6	33	30.00	38.450	-1.333	0.0	4.30
1945	6	3	0	44	25.00	35.750	-2.700	0.0	4.30
1945	6	5	15	20	54.00	37.666	-3.466	0.0	4.10
1945	6	17	9	44	0.00	36.699	-8.799	0.0	4.40
1945	7	1	3	18	4.00	38.800	-0.583	0.0	4.80
1946	2	12	2	43	24.00	35.750	4.950	0.0	5.60
1946	7	3	4	4	40.50	38.450	-0.266	0.0	4.20
1946	9	5	8	9	30.00	37.116	-5.450	0.0	4.00
1946	9	9	17	26	29.00	36.383	4.116	0.0	5.20
1947	4	28	7	6	21.00	36.199	1.099	0.0	4.70
1947	5	30	22	25	31.00	35.800	-2.300	0.0	4.20
1947	6	9	17	14	12.50	37.050	-2.683	0.0	4.00
1947	8	28	6	40	17.50	38.350	-0.716	0.0	4.10
1947	11	24	17	10	7.00	37.616	-6.316	0.0	4.70
1948	3	13	8	6	0.00	33.000	0.100	0.0	4.90
1948	6	23	3	43	55.00	38.141	-1.758	0.0	4.70
1949	11	4	12	35	59.00	35.699	-0.700	0.0	4.50
1950	1	6	15	29	31.00	37.699	-9.300	0.0	4.20
1950	2	8	23	39	8.00	36.300	1.300	0.0	4.10
1950	4	13	11	51	13.00	38.500	-27.000	0.0	5.60
1950	4	20	17	19	14.00	33.900	2.100	0.0	5.10
1950	4	24	3	19	24.00	35.600	-2.700	0.0	4.30
1950	5	2	7	37	46.00	38.150	-1.333	0.0	4.00
1950	5	21	10	44	29.00	35.699	0.200	0.0	4.60

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1950	6	13	23	44	42.00	37.450	-1.950	0.0	4.00
1950	9	21	14	35	3.00	37.100	-3.983	0.0	4.10
1951	3	10	10	38	36.00	38.183	-3.816	0.0	4.80
1951	5	9	20	1	43.00	37.916	-5.749	0.0	4.10
1951	5	19	15	54	19.00	37.583	-3.933	0.0	5.10
1951	5	22	5	34	55.00	37.800	-3.199	0.0	4.40
1951	11	27	9	16	39.00	39.300	-0.600	0.0	4.30
1951	12	6	14	12	52.00	35.500	-2.000	0.0	4.00
1952	2	2	14	23	7.50	37.115	-2.128	5.0	4.10
1952	4	12	10	46	35.10	36.950	-3.595	25.0	4.70
1952	5	12	19	34	36.80	35.690	-6.471	60.0	5.30
1952	5	20	13	18	5.00	37.900	-1.099	0.0	4.40
1952	6	17	22	37	20.00	36.699	-11.799	0.0	5.00
1952	6	20	16	42	24.00	35.800	-0.200	0.0	4.20
1952	6	22	3	53	45.00	37.100	-4.100	0.0	4.30
1952	8	4	12	56	7.00	36.699	0.200	0.0	4.50
1952	8	31	15	45	22.00	35.500	-2.199	0.0	4.00
1953	1	26	0	11	40.00	36.500	-10.000	0.0	4.60
1953	2	4	10	53	7.00	37.500	-19.499	0.0	5.20
1953	2	22	21	57	44.00	36.400	-25.800	0.0	5.20
1953	3	12	19	26	2.00	36.300	-10.000	0.0	4.40
1953	7	5	4	4	20.00	36.199	3.500	0.0	4.60
1953	8	22	1	8	0.00	36.000	3.500	0.0	4.90
1953	9	5	10	22	54.00	39.100	-28.400	0.0	5.60
1953	9	9	3	57	10.00	38.900	-28.900	0.0	5.60
1953	9	9	4	22	56.00	38.900	-28.900	0.0	5.60
1953	10	10	4	5	37.00	37.100	-3.600	0.0	4.00
1953	11	2	2	55	27.00	38.800	-28.800	0.0	5.60
1953	11	10	13	59	6.00	36.699	-7.100	0.0	4.90
1953	11	27	20	0	50.00	37.066	-5.183	0.0	4.30
1953	12	25	5	59	29.10	36.266	3.600	0.0	4.90
1954	1	8	16	33	50.00	36.933	-3.883	0.0	4.20
1954	1	11	9	46	42.00	36.900	-2.700	0.0	4.20
1954	2	18	0	44	29.00	37.000	-6.399	0.0	4.40
1954	3	29	6	16	5.00	37.000	-3.600	657.0	7.00
1954	4	23	19	55	19.00	34.699	-4.900	0.0	4.50
1954	9	9	9	28	42.00	36.000	1.500	0.0	6.00
1954	9	9	1	4	37.00	36.283	1.466	0.0	6.70
1954	9	9	2	49	48.00	36.000	1.500	0.0	6.70
1954	9	10	5	44	5.00	36.600	1.300	0.0	6.00
1954	9	16	22	18	17.00	36.283	1.466	0.0	4.00

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1954	10	10	6	1	48.00	36.300	1.800	0.0	5.50
1954	10	12	19	23	29.00	36.250	1.699	0.0	6.00
1954	10	21	18	1	55.00	36.300	1.600	0.0	4.00
1955	1	31	20	6	53.60	36.896	-3.453	5.0	4.00
1955	2	4	5	12	17.90	36.500	1.663	5.0	4.60
1955	5	8	21	39	0.20	36.436	1.545	5.0	4.90
1955	5	12	0	10	11.00	35.699	-3.000	0.0	4.00
1955	6	4	3	41	35.30	37.133	-3.646	5.0	4.20
1955	6	5	14	56	11.60	36.145	1.711	5.0	4.70
1955	11	27	20	30	8.20	37.301	-2.458	5.0	4.10
1955	12	24	13	6	48.70	36.281	1.791	5.0	4.90
1956	1	6	5	43	44.00	36.335	-10.755	10.0	4.90
1956	1	21	14	8	18.20	36.281	-4.241	5.0	4.30
1956	2	14	9	53	22.80	36.433	1.690	5.0	4.60
1956	2	27	12	38	16.30	36.618	-1.731	5.0	4.30
1956	3	9	4	7	59.20	36.550	-9.611	5.0	4.40
1956	4	19	18	38	54.20	37.191	-3.683	5.0	4.70
1956	5	3	1	3	43.90	37.386	-3.596	5.0	4.30
1956	5	23	0	5	12.00	36.400	3.700	0.0	4.50
1956	6	5	11	41	24.50	37.171	-7.098	5.0	4.20
1956	8	7	22	1	19.80	36.526	-9.579	18.0	4.50
1956	8	14	19	8	18.80	37.081	-2.093	5.0	4.20
1956	8	16	2	9	40.60	36.910	-8.606	5.0	5.00
1956	12	3	11	11	38.30	37.741	-2.458	5.0	4.40
1957	4	1	13	58	8.30	35.248	-3.613	60.0	4.10
1957	6	8	18	19	46.20	35.489	-0.433	5.0	4.60
1957	6	28	21	23	30.00	36.100	1.400	0.0	4.40
1957	6	29	23	46	39.60	36.323	-1.348	5.0	4.60
1957	7	15	9	36	34.10	36.355	-7.486	100.0	4.80
1957	7	26	2	42	2.00	36.105	-7.748	5.0	4.50
1957	8	15	20	41	44.00	36.135	1.508	5.0	4.70
1957	12	2	12	48	51.70	36.586	1.460	5.0	4.80
1957	12	20	18	29	51.80	36.343	-4.178	10.0	4.00
1957	12	21	18	53	31.50	36.873	1.581	5.0	4.60
1957	12	21	16	4	38.20	36.428	1.513	5.0	4.90
1958	1	7	14	34	46.30	38.313	-8.188	5.0	4.60
1958	2	5	10	18	25.50	38.458	-0.735	5.0	4.70
1958	4	30	14	8	14.40	37.566	-12.925	120.0	5.70
1958	6	7	13	18	24.30	36.701	-2.933	5.0	4.00
1958	6	18	14	24	17.40	38.900	-1.525	10.0	4.30
1958	6	19	4	46	27.50	39.100	-0.550	0.0	4.30

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1958	10	22	4	28	30.00	36.600	1.400	0.0	4.60
1958	11	8	12	48	35.00	36.421	-3.205	5.0	4.20
1958	12	22	2	48	16.00	38.183	-1.116	0.0	4.00
1958	12	28	8	26	50.60	36.225	1.453	5.0	4.50
1959	2	19	6	23	13.90	36.173	-6.381	20.0	4.40
1959	5	24	13	19	38.40	36.338	4.531	5.0	5.10
1959	7	30	0	1	13.50	38.718	-9.146	13.0	4.30
1959	8	23	13	46	6.00	35.516	-3.233	0.0	4.40
1959	8	23	22	21	30.80	35.513	-3.226	20.0	4.80
1959	8	24	0	33	56.00	35.516	-3.233	0.0	4.30
1959	8	29	15	33	0.00	35.800	-3.133	0.0	4.30
1959	8	29	13	31	36.00	35.800	-3.133	0.0	4.40
1959	8	29	13	51	51.00	35.800	-3.133	0.0	4.50
1959	8	29	20	45	59.00	35.800	-3.133	0.0	4.50
1959	8	30	4	30	19.00	35.688	-3.205	140.0	4.00
1959	8	30	8	49	23.40	36.343	-2.781	120.0	4.20
1959	8	30	15	59	46.60	36.853	-2.098	90.0	4.50
1959	8	30	3	24	56.20	35.670	-3.080	5.0	4.80
1959	9	17	21	49	2.00	36.216	-3.216	0.0	4.60
1959	9	17	21	55	53.00	36.216	-3.216	0.0	4.60
1959	9	18	2	5	6.80	36.216	-3.225	5.0	4.60
1959	9	30	16	57	45.70	36.341	-3.283	5.0	4.80
1959	11	7	2	32	8.00	36.400	2.500	0.0	5.10
1959	12	12	20	0	6.00	35.800	0.600	0.0	4.30
1960	2	21	8	13	33.60	35.651	4.250	5.0	5.50
1960	2	29	23	40	14.00	30.450	-9.616	0.0	6.00
1960	5	14	15	40	46.20	36.250	-9.425	23.0	4.10
1960	6	1	6	18	54.30	38.096	-0.911	5.0	4.40
1960	6	18	2	54	26.70	36.973	-4.123	5.0	4.10
1960	9	6	11	54	39.30	37.101	-5.086	5.0	4.90
1960	10	10	11	26	3.90	36.763	-2.471	5.0	4.00
1960	11	1	10	56	20.70	37.716	-0.485	60.0	4.00
1960	11	14	20	10	26.10	37.028	-5.328	5.0	4.50
1960	12	5	21	21	47.10	35.690	-6.621	5.0	4.90
1960	12	20	3	47	35.20	36.310	-3.298	5.0	4.00
1960	12	24	20	24	11.70	35.353	-3.581	5.0	4.10
1961	1	19	16	33	29.90	37.516	-6.088	5.0	4.20
1961	5	29	5	27	27.00	36.100	-0.700	0.0	4.10
1961	7	22	5	9	22.00	36.699	-5.399	0.0	4.30
1961	9	11	7	19	39.50	38.355	-8.460	5.0	4.10
1961	9	28	22	25	55.80	36.900	-8.000	0.0	4.00

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Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1961	10	6	3	20	32.00	36.500	1.200	0.0	4.50
1962	1	13	9	36	18.80	35.660	-3.571	5.0	4.00
1962	1	28	3	24	23.80	36.556	-7.605	5.0	4.50
1962	2	14	13	48	15.10	35.290	-3.429	5.0	4.10
1962	3	1	22	19	57.90	35.911	-3.611	5.0	4.50
1962	4	9	8	52	53.50	35.556	-9.181	17.0	4.00
1962	6	1	19	59	15.90	36.246	-3.153	5.0	4.00
1962	9	4	15	11	45.00	36.670	-8.755	5.0	4.70
1962	10	8	18	51	44.80	36.198	-1.663	10.0	4.40
1962	11	5	8	29	52.80	37.380	-2.651	5.0	4.70
1962	12	26	8	58	12.60	39.350	-10.653	5.0	4.80
1963	3	31	14	58	4.90	35.266	-9.179	13.0	5.40
1963	5	15	12	8	8.70	38.000	-26.499	33.0	4.70
1963	5	30	1	54	49.70	37.766	-1.885	5.0	4.00
1963	6	20	19	47	29.00	34.750	-3.871	60.0	4.50
1963	6	26	10	27	7.00	36.008	-3.439	5.0	4.60
1963	8	2	10	49	17.10	34.841	-8.803	5.0	4.10
1963	8	21	8	5	0.00	38.600	-28.200	0.0	5.60
1963	11	2	12	45	16.50	35.053	-4.651	5.0	4.10
1964	1	29	2	2	41.00	37.111	-3.596	5.0	4.00
1964	2	6	20	51	5.60	39.199	-31.000	33.0	4.30
1964	2	15	19	57	44.00	38.900	-28.300	0.0	4.20
1964	2	18	21	23	57.00	38.800	-28.300	0.0	4.00
1964	2	18	8	1	49.20	38.800	-28.499	33.0	4.60
1964	2	18	12	19	20.60	38.800	-28.400	33.0	4.60
1964	2	19	0	34	14.50	38.900	-28.499	33.0	4.50
1964	2	19	6	33	36.50	38.900	-28.600	33.0	4.50
1964	2	21	17	14	45.40	38.300	-28.700	33.0	4.80
1964	2	23	19	40	52.00	38.500	-28.600	33.0	4.50
1964	3	11	4	39	31.50	36.699	-33.400	33.0	4.30
1964	3	15	22	30	26.90	36.131	-7.749	30.0	6.20
1964	3	18	11	17	53.00	38.699	-27.300	0.0	4.40
1964	3	26	7	43	43.90	39.313	-10.323	5.0	4.50
1964	4	21	14	40	43.00	36.000	3.600	0.0	4.00
1964	5	13	13	46	23.50	35.836	-1.816	14.0	4.00
1964	6	9	2	33	35.30	37.736	-2.566	5.0	4.80
1964	6	28	15	22	42.90	37.230	-14.060	0.0	4.60
1964	7	13	12	25	10.60	37.059	-2.020	5.0	4.00
1964	7	15	9	49	9.50	36.201	4.538	32.0	4.30
1964	7	28	20	53	40.00	38.000	-24.499	0.0	4.60
1964	9	6	18	55	47.40	38.300	-26.600	33.0	4.90

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1964	9	9	9	39	45.40	37.085	-3.620	5.0	4.30
1964	9	18	13	12	42.30	39.800	-29.700	20.0	5.50
1964	10	21	19	17	48.50	36.306	4.316	5.0	4.40
1964	11	15	20	3	54.30	34.938	-5.470	19.0	5.00
1964	11	26	23	14	58.50	38.750	-0.166	0.0	4.00
1964	12	23	6	47	12.80	36.971	-4.478	5.0	4.00
1964	12	29	1	0	57.40	37.068	-4.148	5.0	4.10
1964	12	29	10	24	45.70	37.093	-4.151	5.0	4.20
1965	1	1	17	32	21.00	35.699	4.500	0.0	4.40
1965	1	1	21	38	26.00	35.699	4.500	0.0	5.20
1965	1	15	23	47	23.00	35.699	4.500	0.0	4.70
1965	1	25	8	58	41.30	36.664	-9.625	9.0	4.80
1965	4	5	3	12	54.00	37.699	-28.800	0.0	5.40
1965	4	6	17	39	42.30	37.506	-2.141	27.0	4.20
1965	4	19	3	8	3.00	35.579	-3.755	5.0	4.20
1965	6	1	15	18	36.00	37.900	-26.600	33.0	4.90
1965	6	29	4	27	55.30	36.570	-12.360	11.0	4.80
1965	7	6	17	0	50.00	36.400	3.700	0.0	4.30
1965	7	22	11	47	44.00	36.500	3.700	0.0	4.00
1965	7	26	4	4	20.00	38.199	-26.600	0.0	4.40
1965	8	7	21	29	39.20	36.658	-3.241	9.0	4.10
1965	8	16	19	53	19.00	35.900	-35.000	0.0	4.60
1965	8	16	4	36	38.00	35.199	-35.000	0.0	4.80
1965	9	7	6	16	46.00	35.199	4.700	0.0	4.50
1965	10	8	12	7	49.30	38.551	-1.940	9.0	4.00
1965	10	8	13	22	56.90	38.420	-1.643	5.0	4.00
1965	11	8	23	4	20.00	35.699	4.600	0.0	4.20
1965	11	15	6	26	48.00	36.600	4.600	0.0	4.10
1965	11	23	13	0	42.50	37.100	-32.500	43.0	4.30
1965	12	5	3	50	13.00	34.843	-5.698	5.0	4.40
1966	1	2	10	0	48.00	36.500	3.000	0.0	4.00
1966	3	4	4	53	37.20	36.500	-7.500	0.0	4.20
1966	4	3	5	11	37.10	36.339	2.980	5.0	4.30
1966	4	4	20	44	56.30	38.000	-31.200	33.0	4.60
1966	4	4	20	48	39.00	38.199	-31.300	33.0	4.80
1966	5	16	12	57	43.30	36.600	-34.300	33.0	4.40
1966	5	18	20	5	38.30	36.508	-9.790	5.0	4.20
1966	5	29	14	30	28.80	36.413	-3.603	5.0	4.10
1966	6	2	18	37	50.70	36.545	-7.529	26.0	4.50
1966	7	4	15	36	55.00	37.500	-24.800	0.0	4.00
1966	7	4	23	49	52.30	39.000	-24.000	33.0	4.30

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Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1966	7	4	20	9	6.00	37.800	-24.600	0.0	4.40
1966	7	4	12	0	46.00	38.199	-26.700	0.0	5.00
1966	7	4	12	15	26.50	37.500	-24.700	20.0	5.40
1966	7	5	6	37	20.70	37.699	-24.400	33.0	4.20
1966	7	5	4	36	30.60	37.500	-24.900	33.0	4.30
1966	7	5	7	15	52.60	37.600	-24.800	33.0	4.40
1966	7	5	2	22	22.40	37.500	-24.600	15.0	4.80
1966	7	5	5	9	4.70	37.600	-24.700	18.0	5.10
1966	8	26	5	56	22.80	38.053	-8.695	9.0	4.70
1966	9	2	18	9	29.00	37.900	-26.800	0.0	4.00
1966	11	23	19	50	25.00	37.699	-24.600	0.0	4.30
1966	12	8	20	22	22.80	36.900	-14.100	0.0	4.40
1966	12	18	10	46	28.10	35.801	-7.596	40.0	4.00
1966	12	25	11	54	9.00	37.500	-17.099	0.0	4.50
1967	2	23	3	38	38.10	38.964	-29.248	33.0	4.40
1967	2	24	22	13	47.50	39.323	-9.161	5.0	4.00
1967	3	17	6	13	49.70	34.936	-5.431	5.0	4.10
1967	3	31	6	43	8.90	38.935	-28.448	33.0	4.40
1967	4	5	8	31	18.60	36.201	4.848	5.0	4.30
1967	4	23	9	30	20.70	36.256	2.398	5.0	4.80
1967	4	27	1	54	24.00	35.699	-0.200	0.0	4.70
1967	4	28	11	33	45.40	36.400	-33.500	33.0	4.60
1967	5	5	1	34	0.00	35.699	-12.300	0.0	4.20
1967	5	17	20	14	7.80	37.793	-4.310	19.0	4.10
1967	5	27	1	54	25.60	35.858	-0.193	5.0	4.70
1967	7	13	2	10	21.30	35.530	-0.126	5.0	5.00
1967	7	25	2	24	20.20	37.458	-3.558	5.0	4.50
1967	7	29	21	54	29.60	38.356	-1.383	5.0	4.20
1967	8	10	8	27	56.00	37.800	-25.300	0.0	4.30
1967	8	10	5	26	16.00	37.800	-25.300	0.0	4.60
1967	8	28	21	15	0.00	31.300	-6.299	0.0	4.60
1967	8	30	18	21	0.00	31.499	-6.000	0.0	4.10
1967	9	11	7	0	26.90	36.250	2.868	5.0	4.60
1967	9	24	17	8	0.00	32.500	-5.700	0.0	4.30
1967	10	4	2	29	28.80	38.271	-9.258	20.0	4.00
1967	11	14	7	20	22.50	35.425	-3.801	20.0	4.00
1967	12	8	14	32	44.40	37.100	-24.499	33.0	4.50
1968	1	4	6	42	14.40	37.598	-2.123	5.0	4.00
1968	1	11	10	48	52.50	38.479	-8.058	5.0	4.00
1968	1	20	10	54	50.00	40.000	-23.000	33.0	4.10
1968	1	20	6	9	12.00	36.900	-21.900	33.0	4.30

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1968	1	22	7	19	8.10	35.136	-5.833	40.0	4.10
1968	2	6	11	52	21.60	37.633	-4.583	5.0	4.00
1968	2	13	18	57	33.40	36.479	-4.565	91.0	4.30
1968	3	13	11	13	34.30	37.100	-32.698	33.0	4.50
1968	3	19	7	43	37.20	37.199	-33.000	33.0	5.00
1968	4	3	5	27	33.70	35.315	-4.788	16.0	4.00
1968	4	9	11	18	54.00	36.400	-34.400	33.0	4.20
1968	4	17	9	43	41.50	35.401	-3.980	5.0	4.00
1968	4	17	9	12	6.90	35.285	-3.746	22.0	5.00
1968	4	19	12	23	51.50	38.199	-26.600	33.0	4.60
1968	4	20	5	43	8.20	37.660	-32.300	33.0	4.40
1968	4	20	9	44	8.60	38.300	-26.600	33.0	4.90
1968	4	20	10	18	1.10	38.300	-26.600	33.0	5.10
1968	5	2	7	40	7.20	36.248	-34.046	33.0	4.80
1968	5	2	7	58	5.00	36.291	-34.081	33.0	4.90
1968	5	22	14	1	58.90	34.883	-4.408	26.0	4.00
1968	5	31	23	12	43.00	36.071	-31.010	33.0	4.30
1968	6	12	22	30	11.00	36.680	-7.406	100.0	4.30
1968	6	17	17	21	57.10	37.699	-25.900	0.0	4.60
1968	7	11	21	39	13.80	34.500	-16.000	38.0	4.40
1968	7	19	23	19	11.00	38.400	-27.300	0.0	4.30
1968	7	31	5	59	44.00	37.600	-24.200	0.0	5.20
1968	8	1	14	23	3.90	39.188	-29.881	33.0	4.80
1968	8	31	13	48	12.80	36.276	-6.606	68.0	4.20
1968	9	2	12	38	24.70	35.076	-2.788	5.0	4.00
1968	9	2	14	37	56.00	35.066	-2.783	0.0	4.00
1968	9	5	9	10	33.50	37.505	-31.801	33.0	4.40
1968	9	5	8	21	7.80	37.361	-31.689	33.0	4.60
1968	10	30	11	41	55.70	35.281	-3.756	5.0	4.60
1968	11	7	1	33	0.00	38.300	-26.600	0.0	4.00
1968	12	9	1	36	22.80	39.345	0.223	13.0	4.50
1969	1	7	19	42	1.00	36.498	-2.818	10.0	4.20
1969	1	19	2	52	0.50	37.400	-32.300	33.0	4.30
1969	1	23	18	28	31.90	39.441	-0.720	5.0	4.30
1969	2	28	12	43	12.30	35.900	-10.599	0.0	4.10
1969	2	28	15	20	38.10	35.900	-11.000	0.0	4.20
1969	2	28	18	24	35.10	35.900	-11.000	0.0	4.20
1969	2	28	4	44	59.70	36.300	-10.200	0.0	4.40
1969	2	28	9	59	48.30	35.900	-10.900	0.0	4.60
1969	2	28	4	25	34.10	36.199	-10.700	0.0	5.70
1969	2	28	2	40	32.70	35.985	-10.813	20.0	7.30

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Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1969	3	1	11	36	27.40	36.300	-11.100	0.0	4.00
1969	3	1	22	7	52.80	35.800	-10.700	0.0	4.10
1969	3	2	18	0	59.20	36.100	-10.799	0.0	4.40
1969	3	5	2	57	32.90	35.900	-11.000	0.0	4.70
1969	3	6	19	23	42.80	36.199	-10.900	0.0	4.80
1969	3	7	21	31	14.50	36.100	-10.900	0.0	4.30
1969	3	8	3	35	58.40	35.800	-10.599	0.0	4.20
1969	3	9	13	8	16.70	36.258	-10.735	30.0	4.50
1969	3	18	6	0	34.60	35.900	-10.500	0.0	4.00
1969	3	18	4	17	34.60	36.000	-10.700	0.0	4.20
1969	3	24	9	33	29.70	35.900	-10.500	0.0	4.30
1969	4	10	16	52	3.60	35.800	-10.700	0.0	4.20
1969	4	12	0	2	6.00	32.000	-6.200	0.0	4.40
1969	4	19	22	57	42.80	36.199	-11.100	0.0	4.30
1969	4	20	16	12	1.20	36.000	-10.500	0.0	4.60
1969	5	5	5	34	24.20	36.000	-10.400	0.0	5.50
1969	5	8	20	47	10.00	32.666	-11.500	0.0	4.30
1969	5	10	13	31	13.50	36.199	-11.000	0.0	4.30
1969	5	24	10	8	25.80	36.100	-10.900	0.0	4.10
1969	5	30	10	25	0.00	39.400	-9.300	0.0	4.00
1969	6	2	21	27	7.80	36.968	-5.863	12.0	4.10
1969	6	4	2	26	17.80	36.886	-5.856	26.0	4.00
1969	6	15	20	56	6.00	39.100	-29.600	0.0	4.10
1969	6	15	23	14	19.00	39.100	-29.600	0.0	4.70
1969	6	19	10	43	26.00	39.100	-29.600	0.0	5.90
1969	7	6	11	31	33.60	36.948	-5.350	5.0	4.30
1969	8	3	2	53	3.80	35.900	-10.799	0.0	4.10
1969	8	8	7	22	33.00	35.000	-3.400	0.0	4.10
1969	8	8	20	2	27.40	35.900	-11.700	0.0	4.20
1969	8	24	1	5	9.20	39.190	-28.300	33.0	4.30
1969	9	6	14	30	36.50	36.900	-12.300	0.0	5.70
1969	9	18	3	14	3.30	39.961	-8.599	5.0	4.00
1969	10	14	15	18	43.60	36.955	-3.646	5.0	4.30
1969	10	18	5	31	43.80	36.000	-10.900	0.0	4.20
1969	10	21	23	10	23.60	39.970	-8.761	5.0	4.70
1969	11	5	7	47	31.00	35.800	-11.200	0.0	4.60
1969	12	4	18	14	26.90	36.091	-8.228	10.0	4.30
1969	12	24	5	4	44.30	36.000	-10.500	0.0	5.10
1970	1	5	19	45	29.30	36.000	-10.700	0.0	4.20
1970	1	16	13	16	33.80	36.218	-4.765	10.0	4.20
1970	3	2	8	53	7.00	36.199	-28.800	33.0	4.50

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1970	3	4	21	25	22.00	36.716	-5.250	0.0	4.00
1970	3	4	21	57	54.00	36.716	-5.250	0.0	4.00
1970	3	12	1	10	55.70	36.378	-3.543	10.0	4.10
1970	4	7	9	16	14.70	35.100	3.816	5.0	4.90
1970	4	12	23	1	57.40	36.828	-33.168	33.0	4.40
1970	4	14	7	21	16.00	36.428	-7.123	10.0	4.00
1970	5	14	2	29	45.80	35.995	-10.551	20.0	4.30
1970	5	21	4	58	24.00	37.699	-8.100	0.0	4.00
1970	6	21	19	59	43.60	37.036	-8.818	5.0	4.00
1970	10	5	10	26	27.90	34.585	-4.111	5.0	4.00
1970	10	9	0	27	9.90	36.638	2.256	20.0	4.00
1970	11	1	0	18	11.90	38.586	-31.463	33.0	4.70
1970	11	1	0	25	43.80	38.108	-31.418	33.0	4.90
1970	11	21	5	59	44.60	38.668	-27.731	21.0	4.30
1970	12	14	16	48	52.10	35.366	-3.416	0.0	4.10
1970	12	30	20	57	29.60	37.170	-14.803	20.0	5.10
1971	1	12	5	7	13.70	37.745	-0.693	20.0	4.20
1971	1	20	7	31	37.90	35.953	-10.496	24.0	4.10
1971	3	14	20	47	37.60	35.269	-5.955	10.0	4.60
1971	4	4	12	20	54.00	37.975	-30.896	33.0	4.80
1971	4	5	13	51	40.00	36.468	-4.516	60.0	4.10
1971	5	1	10	37	59.10	36.855	-3.823	5.0	4.30
1971	6	18	21	13	36.30	37.738	-3.480	5.0	4.30
1971	7	2	21	11	8.50	34.100	-5.200	0.0	4.60
1971	8	6	12	8	22.20	36.056	-10.610	20.0	4.10
1971	9	24	5	33	13.90	34.913	-4.570	14.0	4.00
1972	1	19	0	37	5.30	31.400	-13.750	5.0	5.00
1972	2	1	11	42	22.30	35.444	-4.713	5.0	4.10
1972	2	27	12	14	6.20	34.821	-8.818	5.0	4.70
1972	3	16	21	31	32.70	37.420	-2.245	5.0	4.80
1972	4	14	3	22	17.20	38.470	-1.355	5.0	4.20
1972	4	18	5	51	53.90	36.430	-11.163	20.0	4.70
1972	5	23	10	4	44.10	37.575	-31.933	33.0	5.00
1972	6	12	22	38	8.50	35.871	-1.290	5.0	4.00
1972	6	14	21	58	13.60	36.655	-8.561	28.0	4.80
1972	8	14	14	6	31.60	34.990	-2.815	5.0	4.20
1972	8	19	4	4	56.80	36.310	-34.080	0.0	4.40
1972	11	22	20	45	31.70	36.078	-4.100	5.0	4.20
1973	1	30	2	35	59.80	36.853	-3.740	660.0	4.00
1973	3	11	12	54	19.30	38.535	-1.926	5.0	4.10
1973	3	21	2	28	50.00	37.785	-2.458	5.0	4.00

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Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1973	3	27	0	1	5.00	36.313	-33.908	33.0	4.30
1973	4	10	12	43	47.50	34.901	-2.726	20.0	4.00
1973	4	29	14	37	55.20	34.563	-3.988	10.0	4.60
1973	5	2	23	17	12.80	36.518	-12.115	5.0	4.40
1973	5	8	0	26	12.10	35.821	-34.653	33.0	4.10
1973	6	4	21	42	20.70	37.310	-14.520	32.0	4.10
1973	6	5	9	19	50.40	37.290	-12.709	5.0	4.10
1973	6	15	23	27	40.50	36.626	-7.493	5.0	4.30
1973	6	17	18	58	32.90	36.234	-7.626	5.0	4.00
1973	8	14	12	54	48.70	36.489	-9.806	30.0	4.10
1973	10	16	11	38	56.20	34.070	-5.390	133.0	4.50
1973	11	1	13	12	55.00	38.400	-28.400	0.0	4.20
1973	11	13	20	17	52.20	37.129	-32.760	0.0	4.30
1973	11	23	13	36	19.30	38.458	-28.308	5.0	5.00
1973	11	24	14	5	46.40	36.100	4.399	17.0	5.10
1973	11	24	15	22	9.80	36.100	4.399	0.0	5.10
1973	11	25	15	33	11.00	36.100	4.299	0.0	4.00
1973	11	25	4	20	22.50	36.100	4.399	0.0	4.90
1973	12	11	0	10	9.20	38.738	-28.666	33.0	5.00
1973	12	25	0	44	50.00	36.345	-8.081	5.0	4.50
1974	1	17	10	31	38.10	30.890	-8.048	1.0	4.00
1974	1	28	0	36	10.60	37.090	-11.269	35.0	4.00
1974	1	28	3	39	7.00	36.199	4.500	0.0	4.80
1974	2	2	3	37	25.00	35.626	-34.536	33.0	4.90
1974	2	5	6	41	59.00	36.100	4.399	0.0	4.40
1974	3	4	1	3	59.70	36.283	-34.098	33.0	4.90
1974	3	20	18	50	39.00	37.070	-13.670	28.0	4.00
1974	4	7	0	56	55.70	36.500	4.399	0.0	4.20
1974	4	14	2	53	5.10	34.090	-16.370	30.0	4.10
1974	5	5	6	9	19.20	35.000	4.600	30.0	4.10
1974	5	6	18	44	21.30	36.980	-13.760	29.0	4.10
1974	5	25	12	2	27.30	35.540	-10.018	5.0	4.30
1974	6	10	4	23	28.30	33.649	-3.840	2.0	4.50
1974	6	13	4	20	8.20	36.875	-4.121	60.0	4.10
1974	7	13	15	57	19.80	35.800	4.900	0.0	4.80
1974	7	14	2	55	26.00	35.558	-3.683	5.0	4.40
1974	7	16	16	1	16.60	37.276	-32.715	33.0	4.70
1974	7	18	8	32	15.30	35.598	-3.588	5.0	4.00
1974	7	27	21	24	39.00	37.108	-32.621	33.0	4.80
1974	7	28	8	0	38.00	37.400	-33.000	0.0	4.40
1974	10	30	14	37	44.80	35.110	-3.149	44.0	4.00

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1974	11	28	13	33	38.80	37.563	-31.991	33.0	4.80
1975	3	5	5	30	47.00	36.220	-10.466	10.0	4.30
1975	3	8	8	40	29.00	38.600	-14.799	0.0	4.70
1975	3	21	9	47	15.30	36.476	-7.859	28.0	4.00
1975	3	29	1	53	36.80	35.961	-3.266	5.0	4.50
1975	4	5	23	33	38.00	34.280	-13.009	5.0	4.10
1975	4	21	8	53	38.00	37.600	-26.200	0.0	4.40
1975	5	15	4	15	31.60	35.980	-10.200	76.0	4.00
1975	5	26	17	3	49.60	35.838	-18.105	0.0	4.20
1975	5	26	14	14	3.30	35.810	-16.900	0.0	4.40
1975	5	26	10	42	11.00	36.199	-17.000	0.0	4.50
1975	5	26	12	21	59.00	35.699	-17.099	0.0	4.50
1975	5	26	9	39	38.40	35.800	-17.499	0.0	4.60
1975	5	26	11	3	32.20	35.740	-17.510	0.0	4.60
1975	5	26	22	1	5.20	36.070	-17.539	0.0	4.60
1975	5	26	10	22	44.10	35.859	-17.490	0.0	4.70
1975	5	26	9	53	31.00	35.789	-17.200	0.0	4.80
1975	5	26	20	19	33.20	36.039	-17.560	0.0	5.50
1975	5	26	9	11	49.80	35.900	-17.600	0.0	6.70
1975	5	27	3	16	0.30	36.153	-17.511	0.0	4.10
1975	5	28	9	53	15.30	36.070	-17.700	0.0	4.50
1975	5	29	22	58	38.60	35.629	-17.560	0.0	4.80
1975	6	7	11	43	11.00	35.460	-15.240	0.0	4.10
1975	6	8	23	23	37.70	35.596	-17.750	0.0	4.40
1975	6	10	14	26	28.60	35.948	-17.401	0.0	4.00
1975	6	11	10	49	36.60	35.810	-17.880	0.0	4.60
1975	6	12	19	27	6.50	37.451	-14.434	0.0	4.50
1975	6	16	22	30	18.00	38.900	-30.099	12.0	4.20
1975	6	18	5	17	41.50	36.320	-33.810	0.0	4.40
1975	6	18	14	6	56.30	35.080	-17.470	0.0	4.60
1975	6	23	2	15	20.20	36.300	-33.820	0.0	4.70
1975	7	10	0	1	6.40	37.311	-7.970	5.0	4.00
1975	7	20	10	49	53.20	36.600	2.800	0.0	4.90
1975	7	28	9	13	19.70	38.638	0.640	20.0	4.50
1975	8	7	15	30	24.30	36.415	-4.591	28.0	5.20
1975	9	9	22	50	17.60	35.300	-17.169	0.0	4.90
1975	9	23	18	21	18.90	35.900	-17.740	0.0	4.60
1975	10	19	0	17	31.00	35.940	-10.660	5.0	4.00
1975	10	30	21	18	37.70	36.100	3.800	15.0	5.40
1975	12	13	23	57	0.50	36.996	-5.289	5.0	4.10
1975	12	16	13	35	22.30	35.640	-16.939	0.0	4.90

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Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1976	1	5	1	27	12.10	34.780	-3.480	78.0	4.10
1976	2	6	1	27	39.00	32.360	-5.170	1.0	4.00
1976	3	16	18	37	57.60	33.300	-4.890	23.0	4.30
1976	3	26	11	8	13.70	36.626	-33.896	33.0	4.70
1976	3	26	11	9	39.20	36.660	-33.830	33.0	4.70
1976	4	13	19	23	19.30	34.280	-4.920	14.0	4.20
1976	4	15	6	1	40.60	39.690	-8.764	5.0	4.10
1976	7	7	14	0	29.60	37.486	-33.318	33.0	4.80
1976	7	13	19	3	1.00	36.039	-14.720	30.0	4.70
1976	7	31	8	59	40.10	36.463	-5.700	5.0	4.30
1976	8	24	19	56	19.40	36.796	-4.620	54.0	5.40
1976	9	26	4	29	20.30	38.886	-0.593	5.0	4.00
1976	10	9	10	13	6.00	38.100	-26.800	0.0	4.30
1976	10	9	10	22	30.00	38.100	-26.800	0.0	4.30
1976	11	20	11	58	58.60	37.000	-33.199	33.0	4.80
1976	11	24	3	55	39.40	36.588	-33.203	33.0	4.90
1976	12	2	1	52	25.70	37.933	0.890	10.0	4.00
1977	1	15	23	58	47.00	33.750	-3.620	2.0	4.40
1977	2	23	6	35	27.80	38.381	-30.096	33.0	4.50
1977	2	27	4	3	9.40	37.536	-31.921	33.0	4.60
1977	4	2	16	4	55.00	36.096	-10.443	20.0	4.80
1977	5	9	10	38	57.90	38.516	-31.296	33.0	4.30
1977	6	6	10	49	12.30	37.645	-1.728	9.0	4.20
1977	9	9	12	20	20.00	33.170	-4.170	2.0	4.10
1977	10	16	7	44	49.70	36.325	-10.816	20.0	4.70
1977	10	18	9	37	20.30	36.955	-13.421	20.0	4.70
1977	10	30	8	10	48.70	35.830	-9.990	5.0	4.00
1978	1	25	22	1	22.70	38.400	-29.499	10.0	4.30
1978	2	7	1	39	25.20	30.279	-7.759	3.0	4.70
1978	2	8	21	42	50.50	31.970	-5.950	2.0	4.30
1978	3	24	13	1	24.20	37.631	-1.705	5.0	4.30
1978	4	1	19	2	43.30	37.100	-24.499	33.0	4.70
1978	4	7	7	39	48.20	38.341	-8.668	5.0	5.10
1978	5	11	4	51	24.90	36.536	-2.681	5.0	4.50
1978	5	12	6	24	40.40	33.670	-8.969	1.0	4.10
1978	6	16	2	33	41.60	36.163	-7.628	5.0	4.70
1978	6	28	14	44	18.20	39.900	-29.800	10.0	4.50
1978	7	28	21	4	51.20	39.170	2.379	5.0	4.20
1978	8	11	12	2	1.20	36.223	-10.535	5.0	4.50
1978	8	14	14	17	50.20	36.373	-6.983	31.0	5.00
1978	9	4	13	36	4.30	36.600	3.300	0.0	4.20

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1978	9	23	1	56	37.70	36.000	-6.800	20.0	4.20
1978	10	8	11	26	34.50	37.220	-14.130	0.0	4.80
1978	10	14	16	21	58.00	35.300	-3.400	0.0	4.10
1978	11	16	14	54	49.90	36.736	-1.296	5.0	4.10
1978	11	16	22	2	32.60	39.800	-29.800	10.0	5.00
1978	12	11	8	56	44.20	33.520	-0.320	5.0	4.90
1978	12	16	8	7	27.60	37.699	-30.490	33.0	4.40
1978	12	28	21	30	59.80	37.838	-3.541	5.0	4.30
1979	1	12	14	49	0.70	35.550	-17.190	5.0	5.30
1979	1	17	17	43	27.00	33.400	-5.399	0.0	4.50
1979	2	24	21	19	22.60	34.906	-4.418	5.0	4.30
1979	3	20	21	53	56.40	37.163	-3.801	5.0	4.10
1979	3	20	2	48	40.00	32.900	1.400	0.0	4.30
1979	3	20	21	57	3.40	37.223	-3.786	5.0	4.40
1979	4	18	20	29	26.90	36.470	-7.468	5.0	4.00
1979	5	1	13	49	53.60	36.950	-5.416	24.0	4.00
1979	5	14	1	47	46.10	37.605	-2.458	5.0	4.20
1979	6	7	6	53	23.00	35.850	-16.800	0.0	4.40
1979	6	9	13	45	40.00	32.900	-5.399	0.0	4.10
1979	6	9	0	36	32.00	32.800	-5.100	0.0	4.40
1979	6	16	13	51	44.00	32.800	-5.299	0.0	4.00
1979	6	17	23	38	36.50	32.800	-5.299	0.0	4.20
1979	6	20	17	50	52.00	33.000	-5.000	0.0	4.20
1979	6	20	0	9	6.40	37.248	-3.491	60.0	4.50
1979	7	4	14	24	52.10	33.996	-6.916	0.0	4.00
1979	7	23	22	35	12.60	37.699	-31.900	10.0	4.40
1979	7	26	9	21	51.00	31.600	-4.600	0.0	4.60
1979	7	29	12	37	21.00	37.479	-18.090	10.0	4.50
1979	9	3	20	27	52.60	38.811	-7.741	5.0	4.20
1979	9	13	17	45	8.50	31.470	-5.785	0.0	4.60
1979	10	25	15	29	48.50	38.013	-0.768	20.0	4.20
1979	12	5	4	20	35.00	37.300	-12.700	0.0	4.30
1979	12	22	23	45	12.20	37.063	-4.340	40.0	4.00
1980	1	1	16	42	40.00	38.800	-27.800	10.0	6.00
1980	1	3	9	49	19.80	36.664	-12.446	20.0	4.00
1980	1	29	3	18	40.30	36.298	-8.020	35.0	4.40
1980	3	1	17	2	58.80	37.400	-32.000	10.0	4.90
1980	3	26	3	8	1.10	37.010	-13.436	5.0	4.30
1980	5	9	9	21	35.60	35.833	1.148	5.0	4.20
1980	5	23	6	14	30.50	37.196	-7.471	17.0	4.00
1980	5	30	16	32	58.80	36.816	-3.123	5.0	4.00

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1980	6	3	1	7	0.20	38.000	-31.200	10.0	5.20
1980	6	10	11	27	44.10	37.090	-24.480	33.0	4.50
1980	6	22	23	18	33.90	35.986	-5.321	80.0	4.70
1980	8	18	3	43	54.50	35.641	-10.480	5.0	4.90
1980	9	3	4	19	41.80	37.945	-31.223	10.0	4.80
1980	9	27	19	39	15.30	36.780	-3.100	5.0	4.30
1980	10	10	15	18	52.00	36.311	1.276	5.0	4.00
1980	10	10	17	15	19.40	36.376	1.688	14.0	4.10
1980	10	10	17	18	35.30	36.160	1.830	5.0	4.20
1980	10	10	21	21	22.60	36.310	1.260	5.0	4.30
1980	10	10	23	55	35.90	36.353	1.775	5.0	4.30
1980	10	10	14	12	29.40	36.208	1.396	12.0	4.60
1980	10	10	15	25	37.10	36.031	1.360	5.0	4.60
1980	10	10	20	22	40.60	36.283	1.728	5.0	4.80
1980	10	10	15	36	55.20	36.416	1.686	5.0	4.90
1980	10	10	14	44	56.30	36.406	1.320	13.0	5.30
1980	10	10	19	8	2.60	36.425	1.591	5.0	5.30
1980	10	10	17	32	59.80	36.051	1.466	10.0	5.40
1980	10	10	12	37	9.50	36.266	1.685	10.0	5.90
1980	10	10	15	39	10.20	36.166	1.648	5.0	6.20
1980	10	10	12	25	23.80	36.153	1.446	5.0	6.50
1980	10	11	0	34	42.40	35.943	1.691	5.0	4.10
1980	10	11	0	0	2.70	36.365	1.295	14.0	4.20
1980	10	11	1	29	20.00	36.363	1.351	5.0	4.20
1980	10	11	19	3	35.00	36.295	1.818	13.0	4.30
1980	10	11	5	40	57.00	36.406	1.591	5.0	4.70
1980	10	11	21	26	21.90	36.381	1.491	17.0	4.70
1980	10	12	0	36	50.70	36.458	1.651	5.0	4.30
1980	10	12	4	2	18.50	36.278	1.595	20.0	4.30
1980	10	13	20	26	42.30	36.191	1.265	5.0	4.00
1980	10	13	20	13	44.30	35.803	-4.561	100.0	4.20
1980	10	13	14	33	42.60	36.315	1.773	5.0	4.60
1980	10	13	6	37	40.10	36.378	1.678	5.0	5.20
1980	10	14	1	7	35.30	36.293	1.876	5.0	4.10
1980	10	14	17	35	1.70	36.441	1.586	15.0	5.00
1980	10	15	18	29	11.30	35.971	1.568	5.0	4.10
1980	10	15	3	17	24.50	36.371	1.658	15.0	4.60
1980	10	19	21	47	23.30	35.853	1.425	5.0	4.40
1980	10	21	16	50	57.10	36.500	1.391	10.0	4.50
1980	10	22	16	23	16.70	36.466	1.426	8.0	4.80
1980	10	23	9	57	55.70	36.411	1.708	9.0	4.60

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1980	10	24	16	25	50.90	36.423	1.518	5.0	4.10
1980	10	24	12	58	2.50	36.475	1.468	5.0	4.20
1980	10	26	2	28	12.30	36.444	1.561	21.0	4.40
1980	10	27	3	38	9.30	36.180	1.241	5.0	4.20
1980	10	29	1	30	14.60	36.648	1.636	5.0	4.40
1980	10	30	23	38	13.00	36.381	1.693	5.0	5.10
1980	11	8	2	7	1.40	36.493	1.551	20.0	4.60
1980	11	8	7	54	20.00	36.199	1.446	5.0	5.30
1980	11	10	0	1	51.30	36.576	1.473	10.0	4.70
1980	11	11	5	41	25.60	36.188	1.449	5.0	4.00
1980	11	11	10	59	46.60	37.833	-5.215	5.0	4.10
1980	11	11	1	29	16.80	36.479	1.801	5.0	4.20
1980	11	15	0	12	30.80	36.110	1.566	5.0	4.00
1980	12	3	22	16	27.30	36.918	-5.673	27.0	4.30
1980	12	3	10	31	21.50	36.451	1.623	5.0	4.90
1980	12	5	13	32	6.20	35.975	1.383	5.0	5.00
1980	12	7	17	37	10.30	35.958	1.251	5.0	5.50
1980	12	8	4	7	14.20	36.113	1.066	5.0	4.00
1980	12	8	6	51	23.20	35.980	-2.121	16.0	4.30
1980	12	11	0	18	6.20	36.421	1.505	5.0	4.00
1980	12	24	12	47	32.60	35.811	1.413	21.0	4.30
1980	12	31	2	25	14.30	36.211	1.301	20.0	4.70
1981	1	15	7	29	56.80	36.264	1.351	10.0	4.40
1981	1	15	4	25	14.80	36.357	1.640	10.0	4.60
1981	1	17	23	45	58.50	36.432	1.592	10.0	4.20
1981	1	31	20	43	52.50	36.505	1.497	10.0	4.30
1981	1	31	16	29	54.30	36.406	1.606	10.0	4.50
1981	2	1	20	58	25.10	36.343	1.694	10.0	4.10
1981	2	1	23	0	39.60	36.441	1.678	10.0	4.90
1981	2	1	13	19	59.20	36.443	1.655	10.0	5.70
1981	2	2	19	2	2.70	36.406	1.521	10.0	4.30
1981	2	5	9	12	30.50	36.332	1.497	10.0	4.50
1981	2	8	23	48	40.60	39.291	-29.978	10.0	4.40
1981	2	12	1	50	6.70	38.457	-26.747	10.0	5.10
1981	2	13	5	2	15.80	37.101	-24.424	10.0	4.40
1981	2	14	8	32	20.50	36.254	-9.012	16.0	4.30
1981	2	14	7	46	49.80	36.263	-8.942	28.0	4.70
1981	2	14	13	15	14.90	35.900	1.280	10.0	4.80
1981	2	20	20	41	0.60	35.509	1.260	10.0	4.10
1981	3	5	1	21	49.20	38.492	0.137	9.0	4.90
1981	3	29	14	14	45.40	36.647	1.869	10.0	4.00

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1981	4	21	17	19	15.30	36.242	1.676	10.0	4.40
1981	5	1	7	20	48.90	36.167	1.575	10.0	4.30
1981	6	15	7	35	29.29	36.338	1.607	10.0	4.30
1981	6	15	22	59	3.70	36.253	1.697	10.0	4.50
1981	6	30	2	44	0.13	37.150	3.120	33.0	4.00
1981	8	17	6	4	55.39	36.247	-34.352	10.0	4.60
1981	8	21	18	48	12.04	36.783	-23.866	10.0	4.40
1981	9	6	7	20	53.22	36.326	1.494	10.0	4.30
1981	9	25	9	23	51.78	36.424	1.549	10.0	4.30
1981	10	10	21	47	36.53	35.874	1.400	10.0	4.00
1981	11	10	6	27	27.60	39.256	-30.037	10.0	4.60
1981	11	16	9	30	4.38	38.957	-30.447	10.0	4.30
1982	4	4	23	3	37.13	39.554	-10.527	10.0	5.30
1982	9	1	5	18	58.84	36.373	-34.042	10.0	4.80
1982	9	11	4	48	38.83	35.637	1.358	10.0	4.10
1982	9	11	21	40	12.26	36.326	2.025	10.0	4.50
1982	10	21	0	59	6.67	36.088	1.351	10.0	4.10
1982	11	15	20	7	47.36	35.631	1.324	10.0	5.00
1982	12	1	6	21	3.00	36.525	3.228	10.0	4.30
1982	12	31	19	32	48.75	37.394	-32.190	10.0	5.00
1983	1	6	21	55	53.83	36.646	-2.241	10.0	4.80
1983	1	24	16	34	8.47	39.740	-14.484	33.0	5.50
1983	1	29	18	29	18.98	38.607	-29.380	10.0	4.90
1983	2	8	8	8	14.82	37.151	-5.272	10.0	4.00
1983	3	20	6	59	10.37	36.468	-2.093	10.0	4.60
1983	4	26	13	24	5.73	37.216	-14.265	10.0	4.00
1983	7	24	17	14	7.14	36.484	-8.329	10.0	4.50
1983	9	20	8	39	13.08	34.864	-5.137	33.0	4.50
1983	10	17	19	36	21.47	37.588	-17.520	10.0	6.30
1983	10	18	3	48	58.36	37.465	-16.659	10.0	4.90
1983	11	24	20	55	40.98	34.733	-4.541	78.0	4.60
1984	3	31	4	45	30.06	36.441	1.733	10.0	4.30
1984	3	31	3	31	53.39	36.461	1.670	10.0	4.70
1984	5	9	2	41	8.07	39.049	-30.009	10.0	4.50
1984	5	15	4	51	23.54	39.507	-30.464	10.0	4.20
1984	6	15	23	2	47.65	36.449	1.547	10.0	4.50
1984	6	24	14	30	52.50	37.116	-3.701	16.0	4.80
1984	7	18	17	43	16.87	38.015	-13.590	10.0	4.20
1984	9	8	15	26	49.86	37.573	-31.678	10.0	4.50
1984	9	9	13	6	31.48	36.926	-24.614	10.0	4.70
1984	9	13	4	34	8.88	37.088	-2.392	10.0	4.20
1985	3	5	15	37	55.68	35.547	1.438	10.0	4.40
1985	5	26	18	5	8.67	37.847	-4.592	13.0	4.50

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1985	3	5	15	37	55.68	35.547	1.438	10.0	4.40
1985	5	26	18	5	8.67	37.847	-4.592	13.0	4.50
1985	6	4	5	12	57.62	36.635	-11.507	10.0	4.10
1985	6	13	1	58	13.44	35.762	-34.909	10.0	4.80
1985	7	19	2	1	24.98	36.926	4.034	10.0	4.00
1985	9	7	9	51	33.89	36.063	1.192	10.0	4.40
1985	9	10	20	57	7.46	35.866	1.347	24.0	4.00
1985	11	1	20	44	2.80	30.988	-13.265	10.0	4.80
1986	1	19	20	11	13.90	36.291	2.853	28.0	4.00
1986	1	28	11	13	22.16	31.996	-5.389	10.0	4.20
1986	1	28	20	1	28.37	31.999	-5.318	22.0	4.90
1986	1	29	7	50	13.25	32.079	-5.394	10.0	4.20
1986	2	8	0	36	3.26	36.324	-33.938	10.0	4.80
1986	2	11	4	58	11.31	36.493	2.885	10.0	4.00
1986	2	13	20	22	30.52	35.624	1.448	31.0	4.30
1986	3	17	8	48	41.52	35.807	-34.407	10.0	4.20
1986	4	26	0	12	0.03	37.251	-3.697	16.0	4.20
1986	5	13	0	19	44.88	36.585	-4.455	95.0	4.30
1986	7	16	6	59	0.11	37.266	-32.053	10.0	4.50
1986	7	22	0	55	29.74	34.738	-17.963	10.0	4.30
1986	7	27	10	17	8.63	37.148	-32.917	10.0	4.50
1986	9	25	6	31	47.48	36.792	-8.827	33.0	4.00
1986	10	12	21	32	18.33	37.102	-8.844	10.0	4.10
1986	10	20	14	48	18.50	36.776	-8.759	32.0	4.80
1986	10	27	4	36	37.85	37.872	-2.505	10.0	4.10
1986	10	27	4	46	55.26	37.873	-2.481	10.0	4.40
1986	11	3	15	51	36.84	33.523	0.909	10.0	4.30
1986	11	4	11	28	45.25	36.666	1.525	10.0	4.50
1986	12	13	13	44	10.11	37.522	-25.128	10.0	4.30
1987	1	8	23	10	12.74	35.403	-3.618	15.0	4.30
1987	1	26	11	11	41.81	35.964	1.374	10.0	4.30
1987	2	28	4	1	20.44	35.903	1.439	10.0	4.00
1987	3	11	0	36	39.76	37.819	-3.334	26.0	4.20
1987	5	4	23	48	34.25	37.618	-31.913	10.0	5.10
1987	5	5	2	57	8.59	37.344	-32.006	10.0	4.20
1987	5	5	1	10	50.83	37.294	-32.024	10.0	4.70
1987	6	2	23	25	9.00	37.125	-32.625	10.0	4.60
1987	6	4	3	28	40.57	38.727	-7.870	10.0	4.30
1987	6	21	6	38	43.57	36.788	2.164	10.0	4.00
1987	7	24	8	9	52.49	36.219	3.368	10.0	4.50
1987	7	29	7	49	5.33	37.036	-1.986	10.0	4.30
1987	8	5	17	26	45.48	39.369	-9.347	10.0	4.00
1987	10	25	3	35	45.53	36.148	-6.591	94.0	4.10

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1987	12	9	15	40	34.23	35.484	-3.785	30.0	4.60
1988	1	3	3	42	40.44	37.848	-4.560	10.0	4.00
1988	2	13	1	47	37.15	36.121	1.798	10.0	4.00
1988	2	17	5	22	41.59	37.985	-30.929	5.0	4.50
1988	4	9	9	50	45.71	34.999	-3.413	27.0	4.30
1988	4	9	20	27	24.77	31.449	-9.936	10.0	4.70
1988	5	1	13	45	52.50	37.109	-13.422	10.0	4.10
1988	7	22	21	16	4.07	39.862	-29.589	10.0	5.30
1988	7	25	20	3	4.93	36.546	-7.174	26.0	4.50
1988	8	3	22	2	53.66	36.760	-10.502	10.0	4.10
1988	8	20	13	3	3.04	37.270	-3.684	16.0	4.70
1988	8	24	13	39	53.12	37.278	-9.618	6.0	4.00
1988	10	16	6	15	29.38	37.525	-25.361	10.0	5.00
1988	10	23	22	56	54.64	38.174	-26.724	10.0	4.80
1988	10	26	5	48	21.65	37.592	-31.865	10.0	4.20
1988	10	31	6	51	9.51	36.180	-5.721	73.0	4.20
1988	10	31	10	12	58.46	36.443	2.759	12.0	5.60
1988	11	21	10	19	5.42	31.466	-9.541	10.0	4.40
1988	11	21	16	55	52.55	37.938	-26.142	10.0	5.30
1988	12	12	6	40	41.67	36.300	-4.512	92.0	4.90
1989	1	9	2	5	51.96	37.989	-31.230	10.0	4.30
1989	1	21	2	52	20.37	38.147	-26.243	10.0	5.10
1989	2	12	12	2	19.01	36.391	2.648	10.0	4.40
1989	3	4	7	1	35.32	27.503	-13.413	10.0	4.60
1989	3	4	7	36	28.23	27.522	-13.479	10.0	4.60
1989	4	8	8	5	44.46	37.257	-24.354	10.0	4.40
1989	4	8	3	36	46.21	39.409	-8.913	17.5	4.70
1989	4	11	15	30	24.12	38.486	-14.718	10.0	4.80
1989	4	20	8	12	32.43	39.899	-29.817	10.0	4.50
1989	5	3	20	37	48.07	39.000	-28.213	10.0	4.10
1989	5	9	2	30	37.86	28.071	-16.156	23.3	4.60
1989	6	24	3	38	22.95	38.985	-14.713	10.0	5.00
1989	6	26	10	38	39.46	39.112	-28.242	11.3	5.70
1989	6	28	20	24	18.94	39.020	-28.383	10.0	4.20
1989	7	10	6	15	30.73	39.781	-29.746	25.4	4.50
1989	8	5	4	48	52.71	35.042	-16.148	10.0	4.70
1989	8	21	20	53	8.05	32.399	-14.081	10.0	4.40
1989	9	10	20	42	55.84	36.728	-24.286	10.0	4.30
1989	9	13	11	34	40.08	35.601	-17.180	10.0	4.70
1989	9	13	20	46	5.37	35.458	-17.129	10.0	5.20
1989	9	13	11	40	46.04	35.577	-17.063	11.9	6.20
1989	9	16	4	3	3.16	32.561	-14.251	10.0	5.80
1989	9	23	15	31	16.09	39.493	-29.848	12.6	4.90

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1989	9	16	4	3	3.16	32.561	-14.251	10.0	5.80
1989	9	23	15	31	16.09	39.493	-29.848	12.6	4.90
1989	10	15	16	0	27.29	36.862	-9.851	33.0	4.50
1989	10	22	23	53	34.47	36.327	4.485	10.0	4.00
1989	10	29	19	43	58.37	36.531	2.492	10.0	4.10
1989	10	29	19	21	52.43	36.745	2.443	10.0	5.60
1989	10	29	19	9	12.94	36.788	2.448	5.7	5.70
1989	11	1	11	32	28.22	36.530	2.487	10.0	4.10
1989	11	2	6	0	23.27	36.407	-9.104	92.5	4.50
1989	11	4	20	8	5.74	36.728	2.379	10.0	4.50
1989	11	5	11	38	18.47	36.747	2.399	10.0	4.60
1989	11	12	11	17	56.02	31.114	-13.455	10.0	4.10
1989	11	22	20	37	47.23	36.567	2.561	10.0	4.40
1989	12	20	4	15	2.51	37.207	-7.352	14.0	4.40
1990	2	8	15	47	37.43	36.268	-11.057	18.0	4.20
1990	5	2	16	40	27.21	36.461	-4.490	87.0	4.20
1991	2	20	13	5	28.32	38.217	-16.805	14.0	4.20
1991	3	21	13	31	49.77	27.438	-19.470	31.0	4.90
1991	7	29	7	22	18.83	30.715	-6.586	30.0	4.30
1992	3	12	13	4	51.65	39.292	0.800	18.0	5.30
1992	3	24	10	44	10.72	39.967	-20.786	0.0	4.00
1992	4	5	21	16	35.44	30.471	-10.003	0.0	4.20
1992	9	27	14	23	53.97	43.459	-14.187	48.0	4.00
1992	10	17	20	43	21.84	35.530	-1.648	0.0	4.00
1992	10	23	9	11	12.50	31.513	-4.233	22.0	5.20
1992	10	30	10	44	1.56	31.506	-4.617	0.0	5.00
1992	10	31	0	58	46.38	31.119	-4.269	30.0	4.10
1992	12	21	9	2	58.56	35.246	-2.275	12.0	4.10
1993	2	16	3	11	13.38	36.616	-8.582	30.0	4.10
1993	5	23	7	40	55.97	35.223	-2.406	7.0	4.00
1993	12	23	14	22	36.56	36.780	-2.981	17.0	4.50
1994	1	4	8	3	15.33	36.568	-2.611	6.0	4.20
1994	5	7	8	49	54.05	31.544	-3.433	26.0	4.00
1994	5	26	8	26	55.52	35.139	-3.908	21.0	5.50
1994	6	3	8	57	40.33	35.213	-3.998	5.0	4.00
1994	8	17	1	12	59.10	35.846	0.783	30.0	4.80
1994	11	25	5	33	17.50	34.655	-4.519	16.0	4.10
1994	12	13	9	48	40.31	39.035	-11.547	8.0	4.00
1995	9	3	22	34	55.29	33.153	-2.928	30.0	4.30
1995	9	19	2	9	40.78	35.725	-0.209	30.0	4.30
1995	11	21	0	25	14.23	35.354	-0.687	30.0	4.50
1995	11	29	23	56	43.91	41.482	-9.877	30.0	4.30
1995	12	13	5	49	11.95	38.281	-16.546	21.0	4.30

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Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		
1996	7	13	9	8	4.91	34.690	-5.787	19.0	4.20
1996	9	2	19	7	2.92	37.763	-2.064	30.0	4.10
1996	9	4	4	14	5.22	36.679	3.164	30.0	5.50
1996	9	16	1	38	15.53	34.995	-4.250	10.0	4.10
1996	11	16	1	38	15.53	34.995	-4.250	10.0	4.10
1997	7	2	9	38	59.26	35.737	-4.182	12.0	4.00
1997	7	2	12	53	20.62	35.803	-4.381	9.0	4.00
1997	8	4	14	23	37.71	32.233	-5.724	13.0	4.10
1997	11	25	14	15	41.05	37.939	-17.024	6.0	4.30
1997	12	19	15	32	30.94	34.478	-9.770	3.0	4.00
1998	3	26	1	8	43.84	37.123	-9.206	30.0	4.00
1998	5	10	10	14	31.21	32.847	-16.330	34.0	4.00
1998	6	6	21	50	30.08	33.150	-15.716	12.0	4.10
1998	6	18	19	45	34.76	32.704	-5.368	0.0	4.40
1998	8	3	15	25	42.68	34.720	-4.918	22.0	4.00
1998	10	4	10	11	43.94	36.544	-10.575	20.0	4.00
1999	2	10	11	3	50.17	36.836	-13.379	30.0	4.20
1999	2	27	3	21	48.65	36.540	-12.233	25.0	4.00
1999	4	30	9	0	47.22	39.320	-8.747	19.0	4.20

Year	Month	Day	Time			Hypocenter		Focal Depth (km)	Magnitude in Richter Scale
			Hour	Min	Sec	Latitude N	Longitude W		