



Eidgenössische Technische Hochschule Zürich

Institut für Geophysik

Jahresbericht 1974 des Schweizerischen Erdbebendienstes

(Seismological Bulletin)

edited by D. Mayer-Rosa



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THE SEISMOLOGICAL SERVICE OF SWITZERLAND (SCHWEIZ.ERDBEBENDIENST *SED*) IS AN INTEGRAL PART OF THE INSTITUTE OF GEOPHYSICS (INSTITUT FUER GEOPHYSIK *IG*) OF THE SWISS FEDERAL INSTITUTE OF TECHNOLOGY (EIDGEN. TECHNISCHE HOCHSCHULE) SINCE 1956.

DIRECTOR OF THE IG AND SED IS PROF.DR.STEPHAN MUELLER.

SED-STAFF AND CONTRIBUTORS TO THIS BULLETIN:

DR.DIETER MAYER-ROSA (SUPERVISOR)
ZOMBOR SOMOGYI (SEISMOGRAM ANALYSIS)
RENE GRAF, DIPL. PHYS. (PROGRAMS)
MANFRED BAER, DIPL. PHYS. (PROGRAMS)
ROBERT BERGER (MACROSEISMIC READINGS)
MAX DIETIKER (ELECTRONIC ENGINEERING)
FRANCINE KLINGELE (DRAWINGS)

ADDRESS: SCHWEIZ.ERDBEBENDIENST
E.T.H.-HOENGGERBERG
CH-8093 ZURICH, SWITZERLAND

TELEPHONE: 01-577800 TELEX: 58181 ETHEB CH

THE COOPERATION WITH THE OBSERVATORIES IN BASEL AND NEUCHATEL IS GRATEFULLY ACKNOWLEDGED.

THE SED IS INDEBTED TO THE ELECTRIC POWER STATIONS OF LINTH-LIMMERN(GL), GRANDE DIXENCE(VS) AND EMOSSON(VS) FOR MAINTENANCE OF THE STATIONS LIN, DIX, EMO, RESPECTIVELY. THE HELP OF DR.N.PAVONI OF THE IG DURING THE INSTALLATION OF THE STATION EMO IS GRATEFULLY RECOGNIZED.

THANKS ARE DUE TO THE FOLLOWING INSTITUTIONS FOR DATA EXCHANGE AND SPECIAL SERVICES: SEISMOLOGISCHES ZENTRALOBSERVATORIUM GRAEFENBERG(D), GEOPHYSIKALISCHES INSTITUT DER UNIVERSITAET KARLSRUHE(D), LANDES-ERDBEBENDIENST IN STUTTGART(D) AND INSTITUT DE PHYSIQUE DU GLOBE IN STRASBOURG(F).

THE FOLLOWING INTERNATIONAL DATA CENTERS HAVE BEEN SUPPLIED WITH DATA BY THE SED DURING THE PERIOD OF 1974:

- NATIONAL EARTHQUAKE INFORMATION SERVICE, U.S.GEOL.SURVEY(USA)
VIA: SEISMOL.ZENTRALOBSERVATORIUM GRAEFENBERG(D)
- INTERN.SEISMOL.CENTRE, NEWBURY(UK)
- BUREAU CENTRAL INTERN.DE SEISMOL., STRASBOURG(F)

DURING 1974 A TOTAL OF 13 SEISMIC STATIONS HAS BEEN OPERATED CONTINUOUSLY OR PART TIME IN SWITZERLAND (SEE FIG.1 AND PAGE 25). THE CHARACTERISTICS CAN BE FOUND ON PP 5-15. THE STATIONS LIN, DIX AND EMO ARE INSTALLED NEAR LARGE DAM SITES IN THE SWISS ALPS. THE STATIONS BAS AND BLA ARE OPERATED BY THE OBSERVATORIUM DER ABT. METEOROLOGIE DER STADT BASEL, THE STATION NEU IS OPERATED BY THE OBSERVATOIRE CANTONAL DE NEUCHÂTEL.

DUE TO THE RAPID INCREASE OF TELEMETERING SEISMIC SHORT-PERIOD STATIONS IN SWITZERLAND DURING 1974, A NEW MICROFILM TYPE RECORDER (16 MM DEVELOCORDER) WAS INSTALLED IN NOV.1974. THE OVERALL MAGNIFICATION INDICATED IN FIGURES 2A-L REFERS TO THE WORKING SCREEN OF THE MICROFILM PROJECTOR.

IN ORDER TO EXPAND THE DYNAMIC RANGE OF THE SYSTEM, SUPPLEMENTARY VERTICAL STRONG MOTION CHANNELS ARE RECORDED SEPARATELY ON THE FILM. THESE STRONG MOTION CHANNELS ARE SET AT A 26 DB LOWER GAIN, COMPARED WITH THE STANDARD VERTICAL COMPONENTS. THE PRINCIPAL SETUP OF THE SYSTEM IS DEPICTED IN FIGURE 3.

THE TIMING OF THE SYSTEM IS ACCOMPLISHED BY A TIME-CODE GENERATOR WHICH WRITES A SLOW CODE DIRECTLY ON THE MICROFILM. THIS GENERATOR IS DRIVEN BY A QUARTZ CLOCK, SYNCHRONIZED BY THE RADIO TIME SIGNAL OF STATION HBG (75 KHZ). CONSEQUENTLY THE ABSOLUTE TIME ERRORS IN SEISMOGRAM READINGS ARE KEPT BELOW 0.1 SEC.

DURING 1974 ALSO A LONG-PERIOD SEISMOGRAPH SYSTEM WAS OPERATED IN ZURICH IN THE BASEMENT OF AN OFFICE BUILDING. THE PARAMETERS ARE: LAT=47.410N LONG=8.513E, SEISMOMETER: PERIOD=15 SEC, DAMPING=1.5, FILTER: LP200 SEC, DAMPING=0.707, ADDITIONAL FILTER: HP 300 SEC, DAMPING=0.707, GAIN=300 (AT 15 SEC). SEISMOMETER: VERTICAL SPRENGNETH 5007, AMPLIFIER: TYPE WIELANDT, PAPER-LOOP INK RECORDER. THE LP-SEISMOGRAMS ARE NOT USED FOR ROUTINE WORK, THEY SERVE FOR PHASE-VELOCITY STUDIES IN CONJUNCTION WITH A NETWORK OF LP-STATIONS IN EUROPE.

TABLE 1 LISTS SEISMIC EVENTS WITH EPICENTERS LOCATED OR FELT IN OR NEAR SWITZERLAND. DETAILED INFORMATION ON THESE EVENTS CAN BE FOUND IN TABLE 2. A HYPOCENTER PLOT IS SHOWN IN FIG.4. THE SIZE OF THE SYMBOLS X AND O IS PROPORTIONAL TO THE MAGNITUDE AND DEPTH OF AN EARTHQUAKE (SEE LEGEND TO FIG.4).

THE CALCULATION OF THE SOURCE PARAMETERS WAS CARRIED OUT USING HYPOELLIPSE, A COMPUTER PROGRAM OF THE U.S.GEOLOGICAL SURVEY. THE ESTIMATED AVERAGE ABSOLUTE (EPICENTRAL) ACCURACY IS +/-5 TO 10 KM, DEPENDING ON THE DISTRIBUTION OF THE STATIONS USED FOR LOCALISATION. IN GENERAL, ALL EARTHQUAKES ARE SITUATED WITHIN THE DEPTH RANGE OF 2-25 KM. IF NO CLEAR COMPUTATIONAL SOLUTION FOR THE FOCAL DEPTH COULD BE DERIVED, IT WAS FIXED EITHER AT 2 OR 10 KM FROM THE BEGINNING. IN MOST CASES THE FIRST P- AND S-WAVE ARRIVALS WERE USED FOR LOCALISATION.

THE FOLLOWING SIMPLIFIED P-WAVE VELOCITY MODELS WERE ADOPTED FOR THE CALCULATIONS, TAKING $V_P/V_S = 1.73$:

	LAYER	P-VELOCITY KM/SEC	DEPTH KM	THICKNESS OF LAYER KM
MODEL 1	1	5.0	0.0	1.5
	2	6.0	1.5	18.5
	3	6.7	20.0	25.0
	4	8.1	45.0	-
MODEL 2	1	5.0	0.0	1.5
	2	6.0	1.5	18.5
	3	6.7	20.0	10.0
	4	8.1	30.0	-

MODEL 1 IS CHOSEN, WHEN THE FIRST RECORDING STATION IS OUTSIDE THE ALPINE AREA AND MODEL 2 FOR STATIONS WITHIN THE ALPS. THUS A CRUDE APPROXIMATION TO THE DIFFERENCES IN THE STRUCTURE OF THE CRUST BETWEEN ALPINE AND NONALPINE AREAS IS TAKEN INTO ACCOUNT.

THE MAGNITUDE VALUES IN TABLE 1 CORRESPOND TO THE RICHTER-SCALE (ML), EVALUATED BY TAKING THE AMPLITUDE OF THE STATIONS BUB AND ZUL. THE EPICENTRAL INTENSITIES IN TABLES 1 AND 2 ARE BASED ON INFORMATION RECEIVED FROM THE POPULATION. THEY CORRESPOND TO THE VALUES OF THE MSK-SCALE 1964. FIGURES 5,6 AND 7 CONTAIN THE INTENSITIES OF THE FELT EARTHQUAKES IN SWITZERLAND.

TABLE 3 LISTS ALL EARTHQUAKES WITHIN A RADIUS OF ABOUT 2500 KM DISTANCE (SEE ALSO FIGURE 8). AS DATA BASIS SERVED THE HYPOCENTER DETERMINATIONS OF THE NATIONAL EARTHQUAKE INFORMATION SERVICE, BOULDER (USA).

1974 SWISS SEISMIC STATIONS

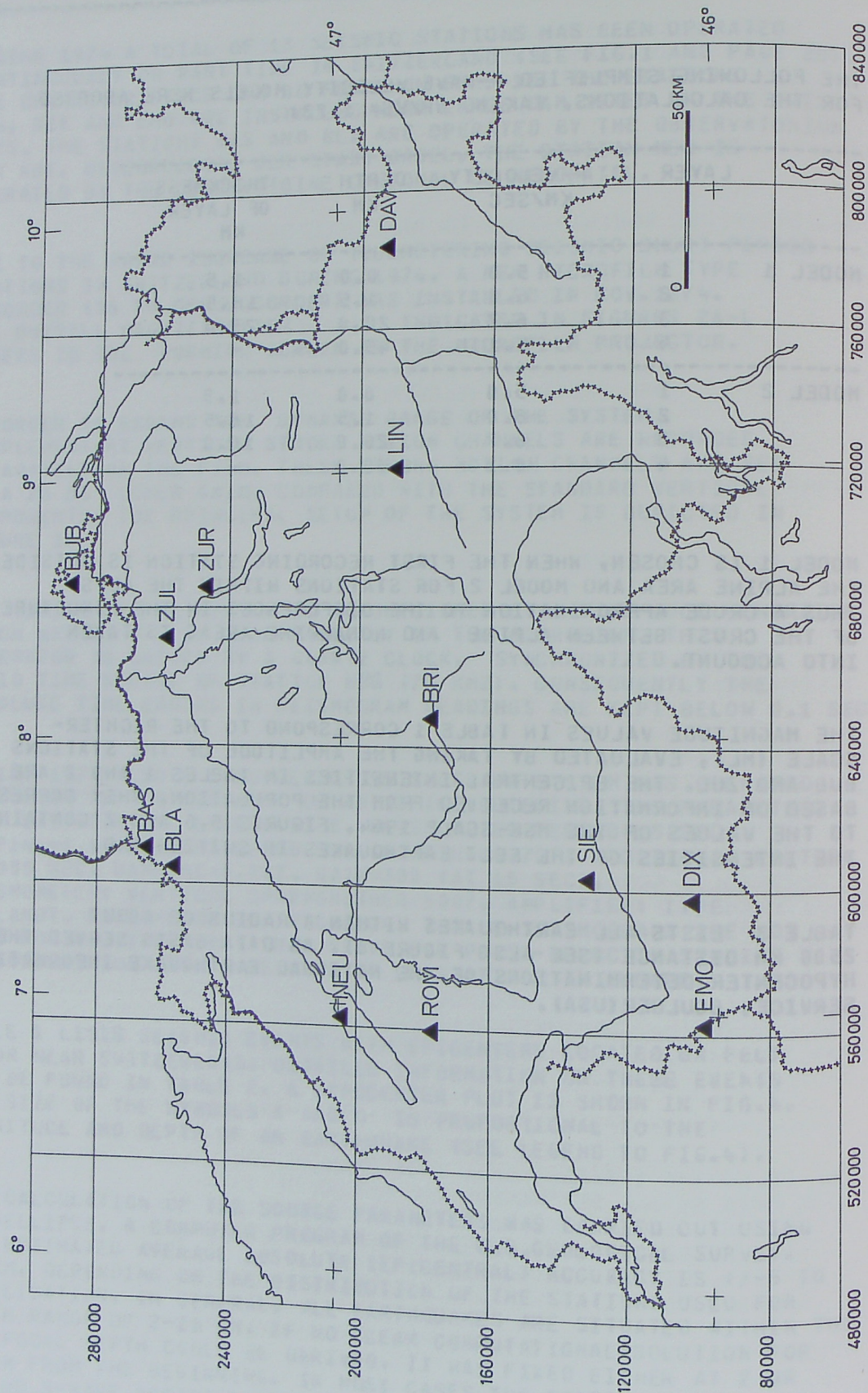


Fig.1

NORMALIZED MAGNIFICATION

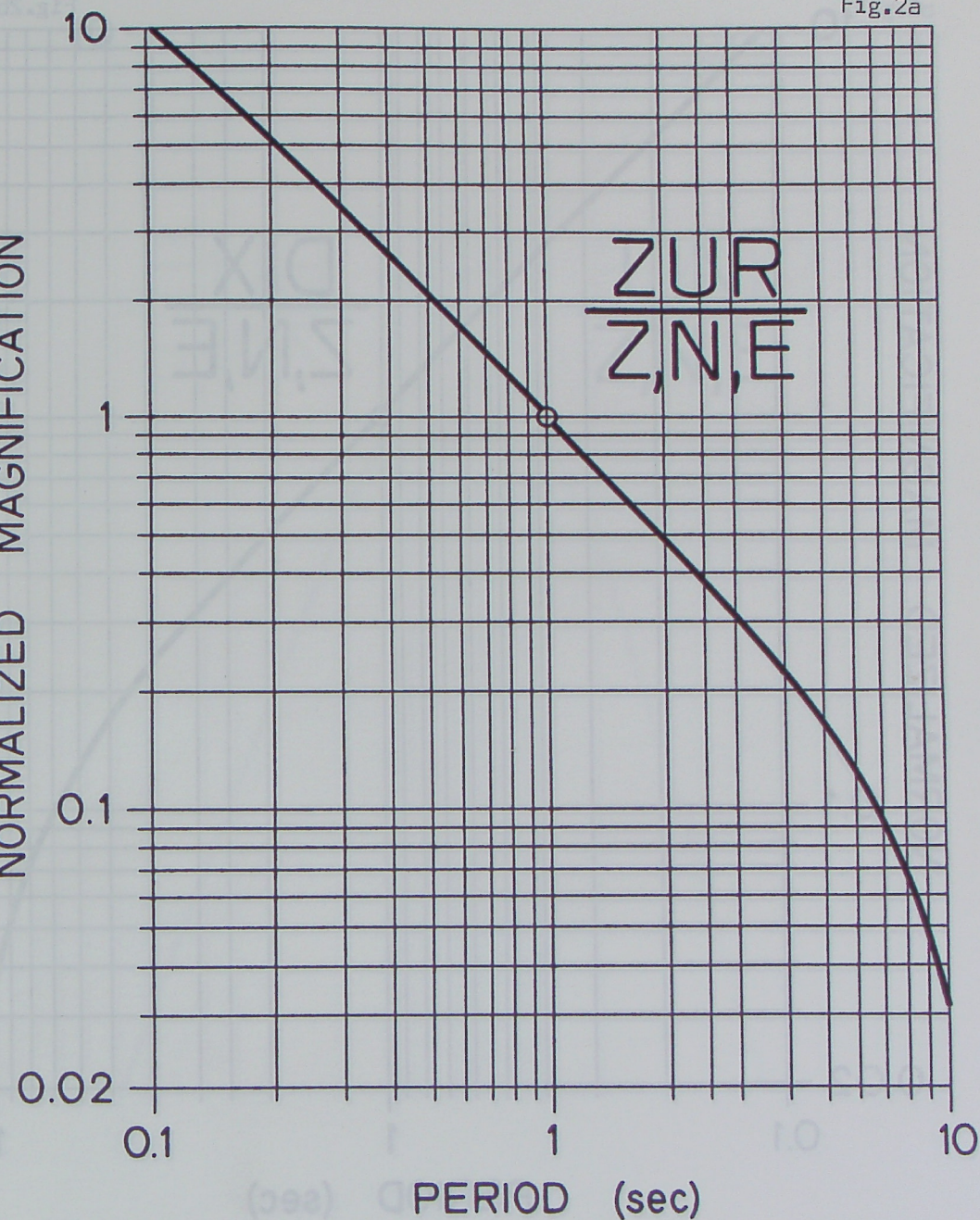
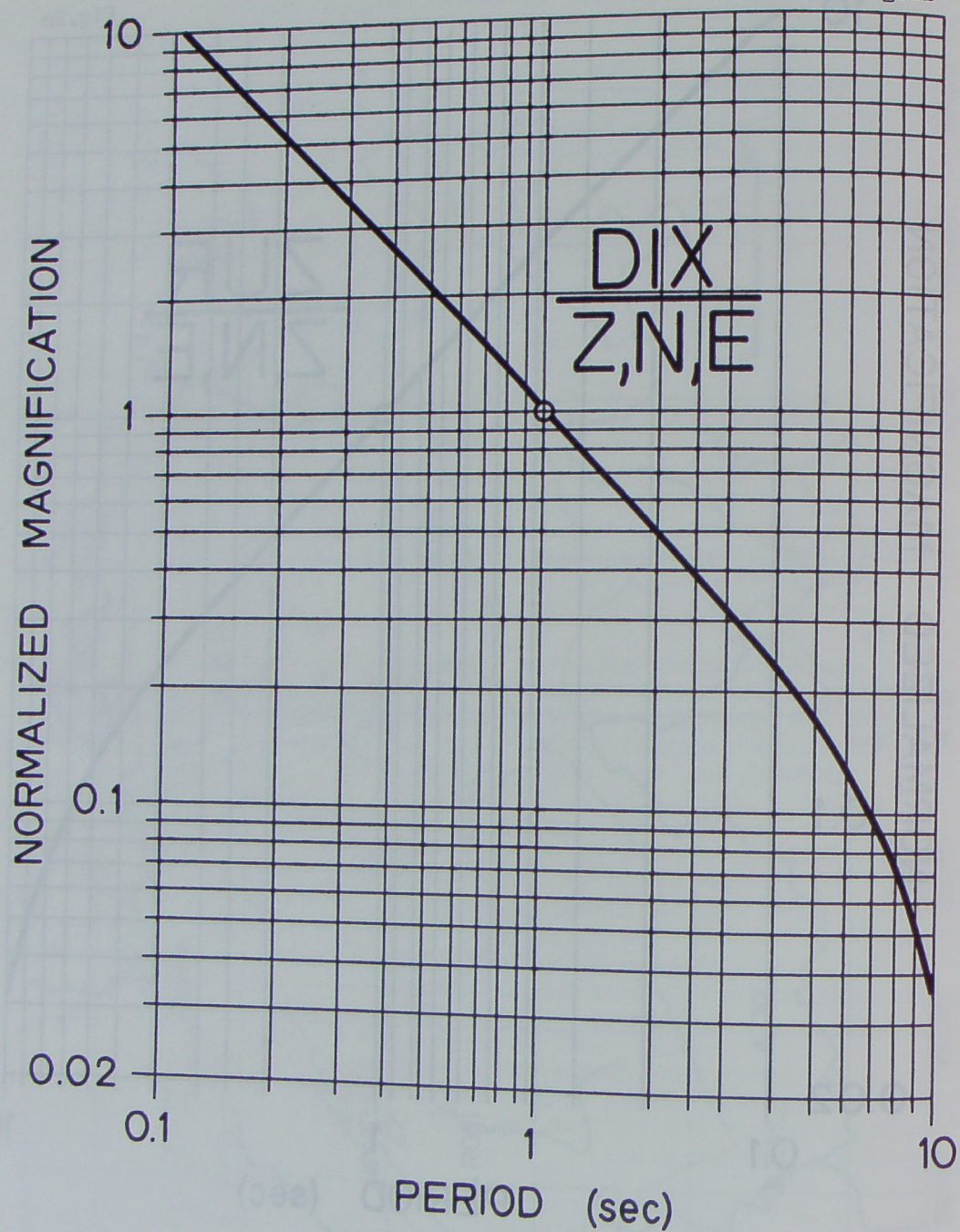
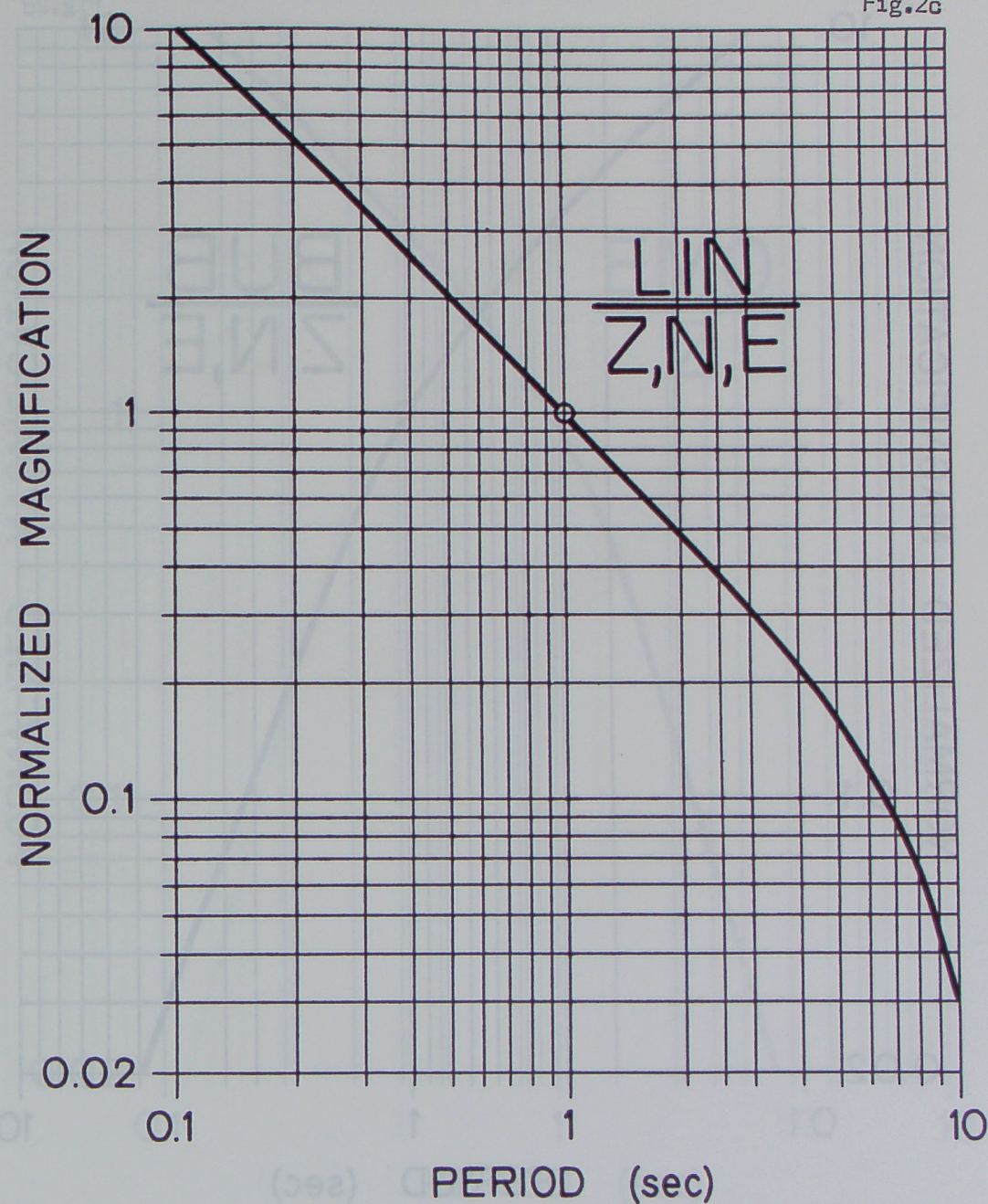


Fig.2a

STATION: Zürich-Degenried (ZUR) INSTALLED : 1911
 LAT: 47° 22.12'N LONG: 8° 34.83'E ALTITUDE : 600m
 OPERATED BY: Schweiz.Erdbebendienst, E.T.H.Zürich
 FOUNDATION : Sandstones and Marls of the Upper Freshwater Molasse
 SEISMOMETER : BB (5 sec) DAMPING: 0.7 ELECTRONICS: IG
 RECORDER : Ink-recorder, system Volk, 120 mm/min
 MAGNIFICATION at 1 Hz : 5 000
 TIMING : Quartz-clock, synchronized by radio HBG(75KHz)

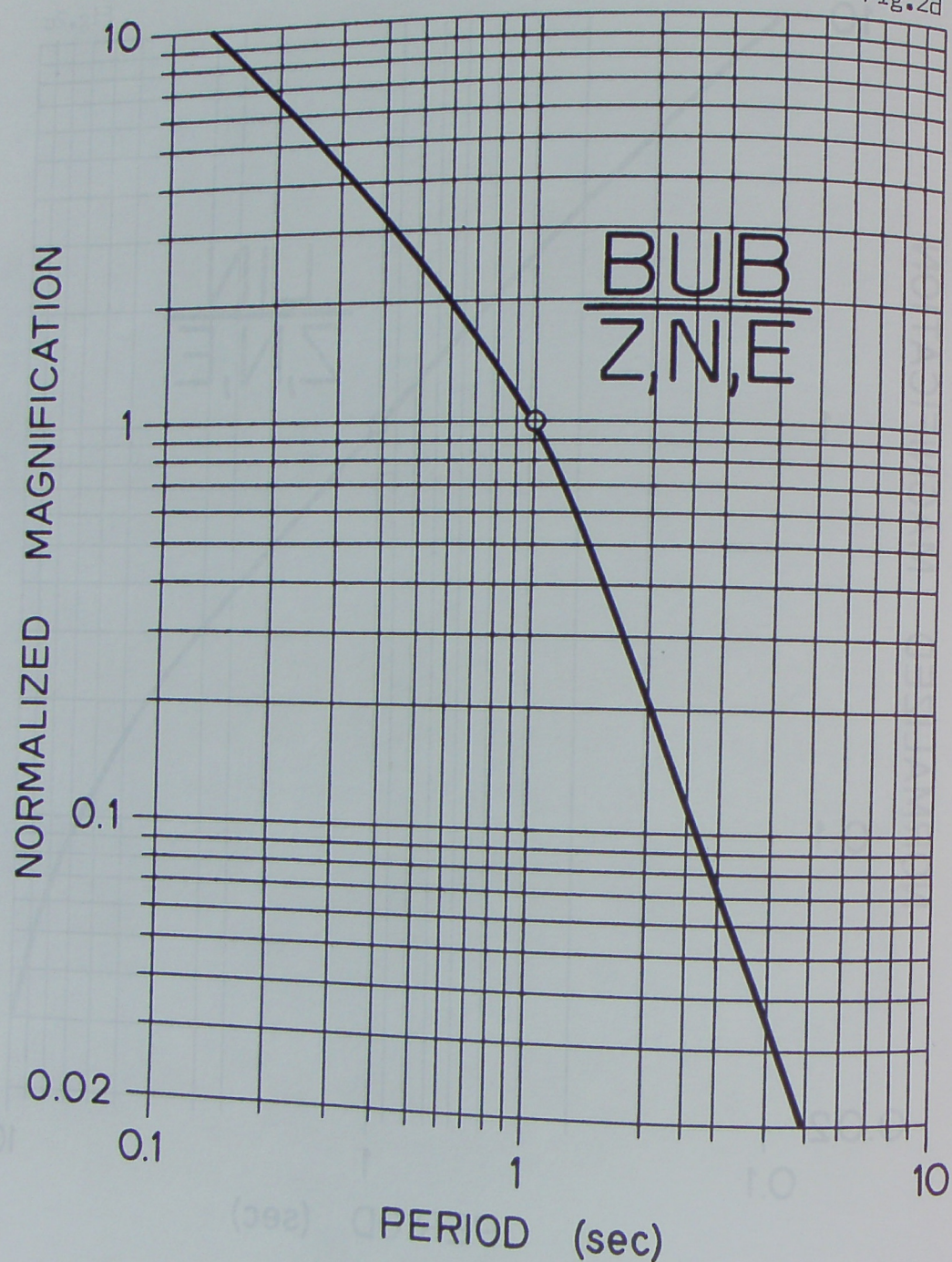


STATION: Grande Dixence (DIX) INSTALLED : Nov. 1970
 LAT: 46° 04.83'N LONG: 7° 24.65'E ALTITUDE : 2400m
 OPERATED BY: Schweiz.Erdbebendienst, E.T.H.Zürich
 FOUNDATION : Casanna-Schists
 SEISMOMETER : BB (5 sec) DAMPING: 0.7 ELECTRONICS: IG
 RECORDER : 35mm scratch-film
 MAGNIFICATION at 1Hz : 5 000
 TIMING : Quartz-clock, synchronized by radio HBG(75KHz)



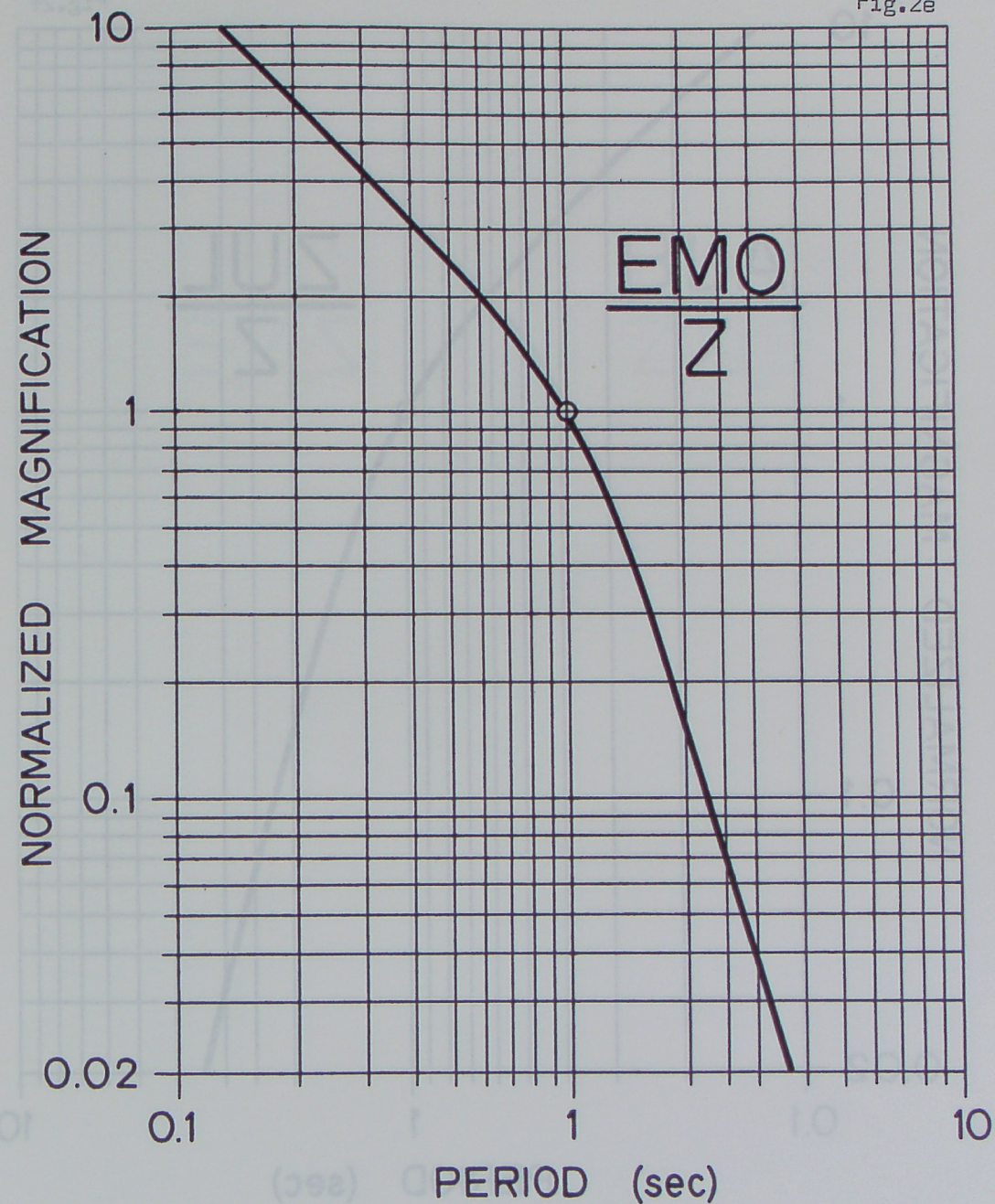
STATION: Linth-Limmern (LIN) INSTALLED : Nov. 1971
 LAT: 46° 52.14'N LONG: 8° 59.82'E ALTITUDE : 1900m
 OPERATED BY: Schweiz.Erdbebendienst, E.T.H.Zürich
 FOUNDATION : Upper Jurassic Limestone
 SEISMOMETER : BB (5 sec) DAMPING: 0.7 ELECTRONICS: IG
 RECORDER : 35mm scratch-film
 MAGNIFICATION at 1Hz : 5 000
 TIMING : Time-signal by radio HBG(75KHz), $t_{corr} = 0.2$ s

Fig.2d

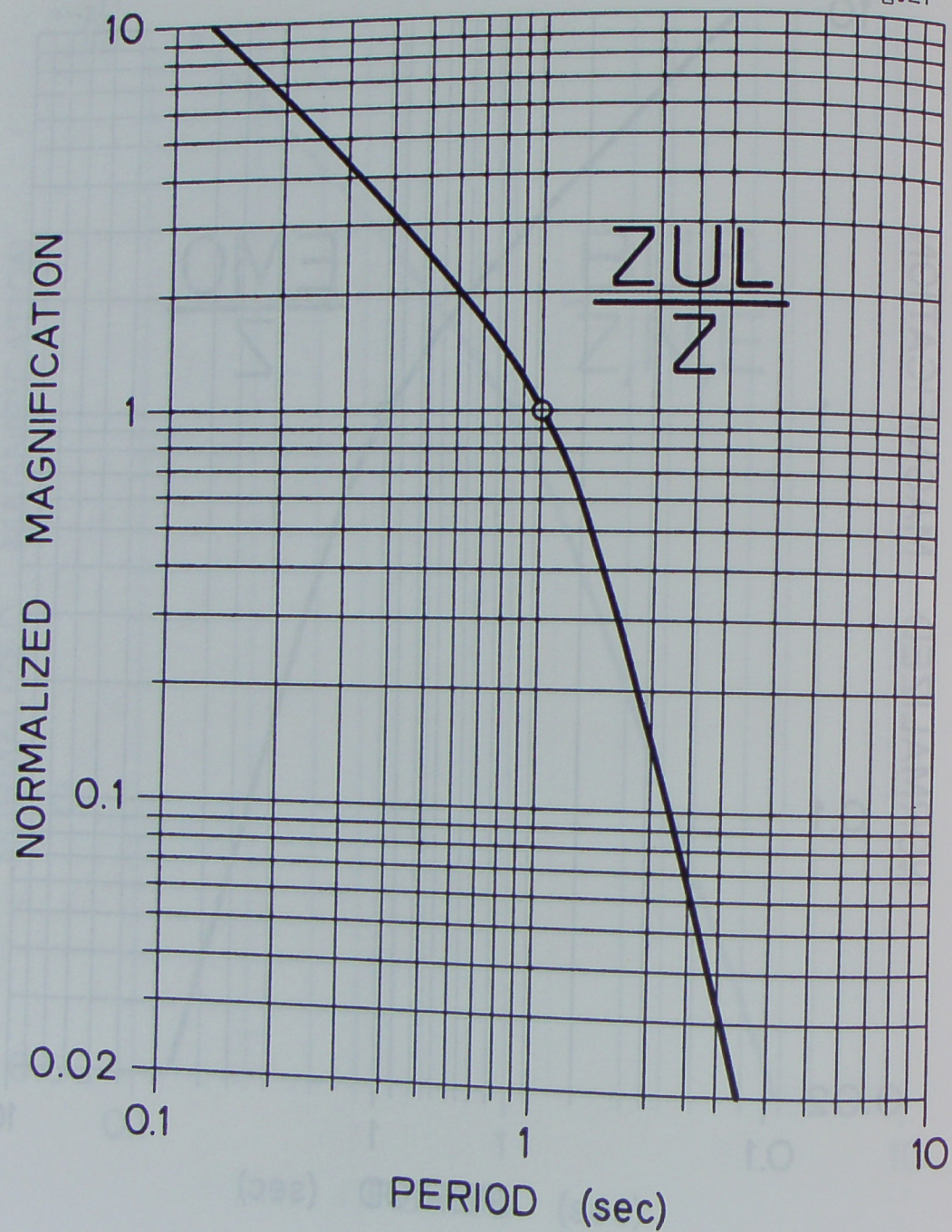


STATION: Buchberg (BUB) INSTALLED: Jan. 1972
 LAT: 47° 44.94'N LONG: 8° 36.18'E ALTITUDE: 740m
 OPERATED BY: Schweiz.Erdbebendienst, E.T.H.Zürich
 FOUNDATION: Upper Jurassic Limestone
 SEISMOMETER: Mark L4-3D(1Hz) DAMPING: 0.7 ELECTRONICS: Hel.
 RECORDER: Ink-recorder, system Volk, 120 mm/min
 MAGNIFICATION at 1 Hz: 20 000
 TIMING: Time-signal by radio HBG(75KHz), $t(\text{corr}) = 0.2 \text{ s}$

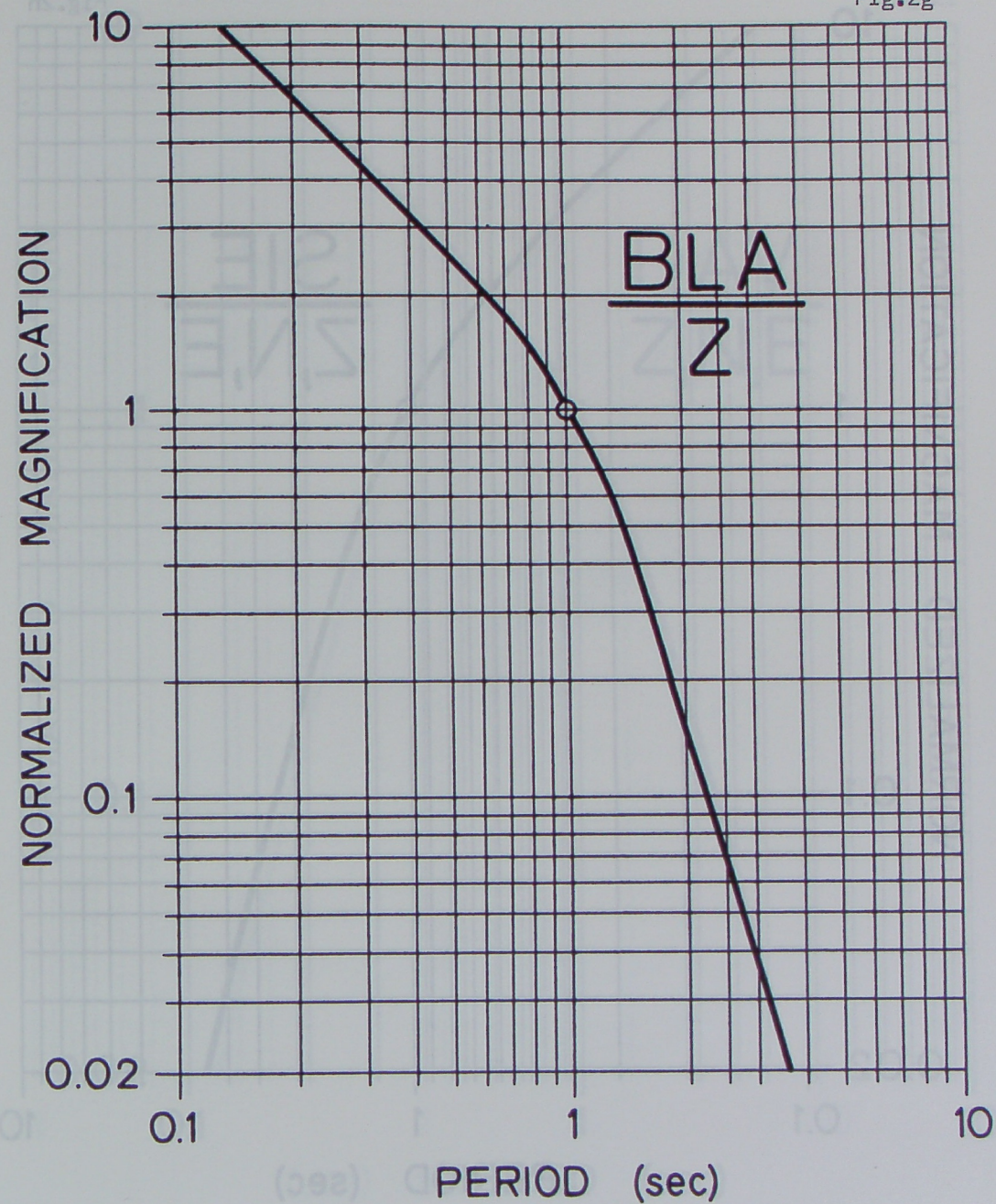
Fig.2e



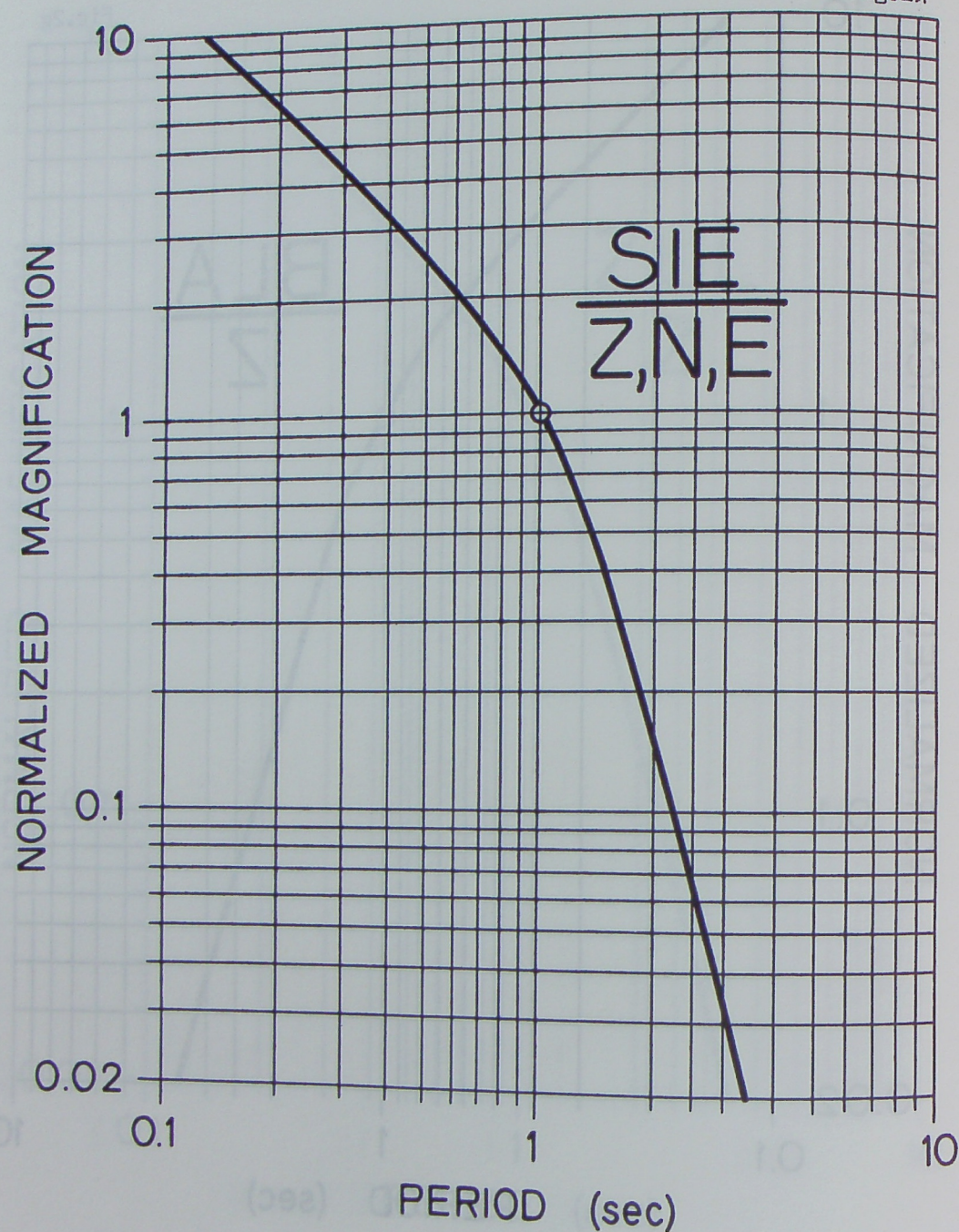
STATION: Emosson (EMO) INSTALLED: Sept. 1973
 LAT: 46° 02.89'N LONG: 6° 57.72'E ALTITUDE: 1500m
 OPERATED BY: Schweiz.Erdbebendienst, E.T.H.Zürich
 FOUNDATION: Permo-Carboniferous rocks
 SEISMOMETER: Mark L-4C(1Hz) DAMPING: 0.7 ELECTRONICS: STS
 RECORDER: 35mm scratch-film
 MAGNIFICATION at 1 Hz: 20 000
 TIMING: Quartz-clock, time signal by radio HBG(75KHz), $t_c = 0.2 \text{ s}$



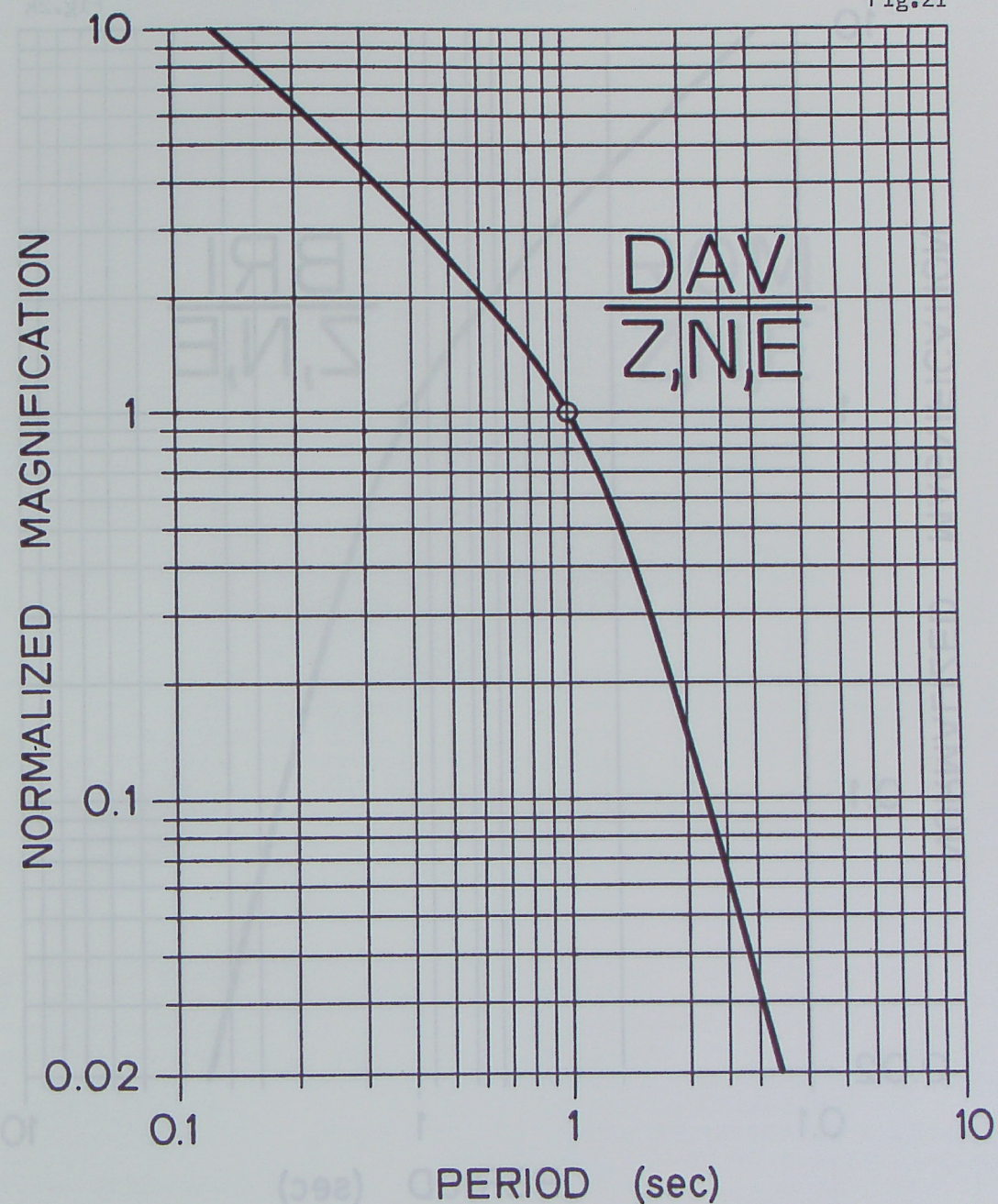
STATION: Zürich-Lägeren (ZUL) INSTALLED : Jan.1974
 LAT: 47° 28.88'N LONG: 8° 23.42'E ALTITUDE : 740m
 OPERATED BY: Schweiz.Erdbebendienst, E.T.H.Zürich
 FOUNDATION : Jurassic Limestone
 SEISMOMETER : Mark L4-C (1Hz) DAMPING:0.7 ELECTRONICS:ST5
 RECORDER : Develocorder
 MAGNIFICATION at 1Hz : 20 000
 TIMING : Quartz-clock, synchronized by radio HBG(75KHz)



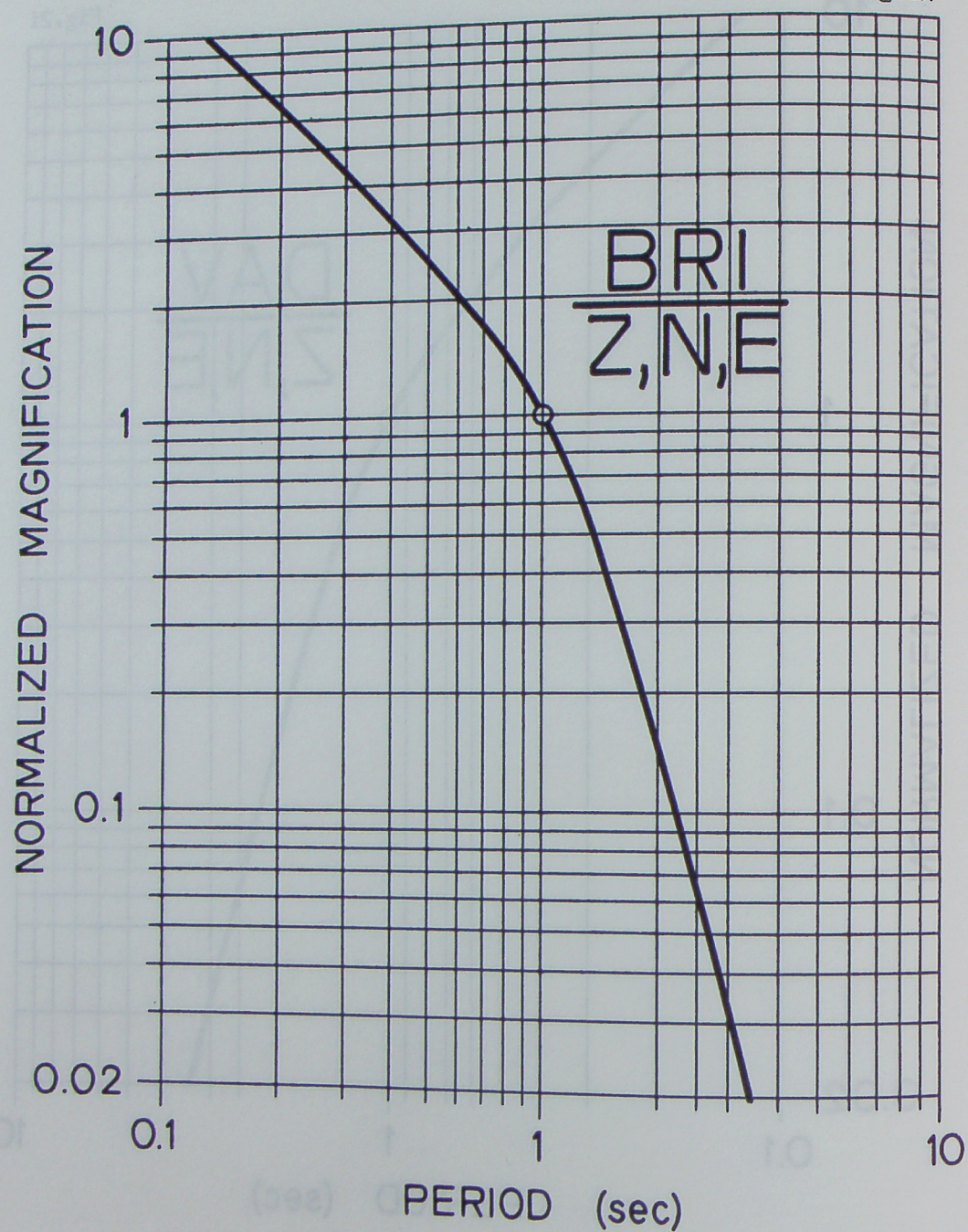
STATION: Basel-Blauen (BLA) INSTALLED : Jun.1974
 LAT: 47° 27.87'N LONG: 7° 30.55'E ALTITUDE : 700m
 OPERATED BY: Schweiz.Erdbebendienst, E.T.H.Zürich
 FOUNDATION : Jurassic Limestone
 SEISMOMETER : Ranger(1Hz) DAMPING:0.7 ELECTRONICS:KA
 RECORDER : Ink-recorder, system Volk, 120 mm/min
 MAGNIFICATION at 1Hz : 50 000
 TIMING : Radio DCF(77KHz)



STATION: Sierre (SIE) INSTALLED : Aug.1974
 LAT: 46° 20.80'N LONG: 7° 29.14'E ALTITUDE : 2500m
 OPERATED BY: Schweiz.Erdbebendienst, E.T.H.Zürich
 FOUNDATION : Mesozoic Limestone
 SEISMOMETER : Mark L4-3D(1Hz) DAMPING: 0.7 ELECTRONICS: STS
 RECORDER : Develocorder
 MAGNIFICATION at 1Hz : 40 000
 TIMING : Quartz-clock, synchronized by radio HBG(75KHz)



STATION: Davos (DAV) INSTALLED : Aug.1974
 LAT: 46° 51.61'N LONG: 9° 50.92'E ALTITUDE : 2300m
 OPERATED BY: Schweiz.Erdbebendienst, E.T.H.Zürich
 FOUNDATION : Mesozoic Dolomite
 SEISMOMETER : Mark L4-3D(1Hz) DAMPING: 0.7 ELECTRONICS: STS
 RECORDER : Develocorder
 MAGNIFICATION at 1Hz : 40 000
 TIMING : Quartz-clock, synchronized by radio HBG(75KHz)



STATION: Brienz (BRI)

INSTALLED : Sept.1974

LAT: 46° 45.53'N

LONG: 8° 04.40'E

ALTITUDE : 700m

OPERATED BY: Schweiz.Erdbebendienst, E.T.H.Zürich

FOUNDATION : Mesozoic Limestone

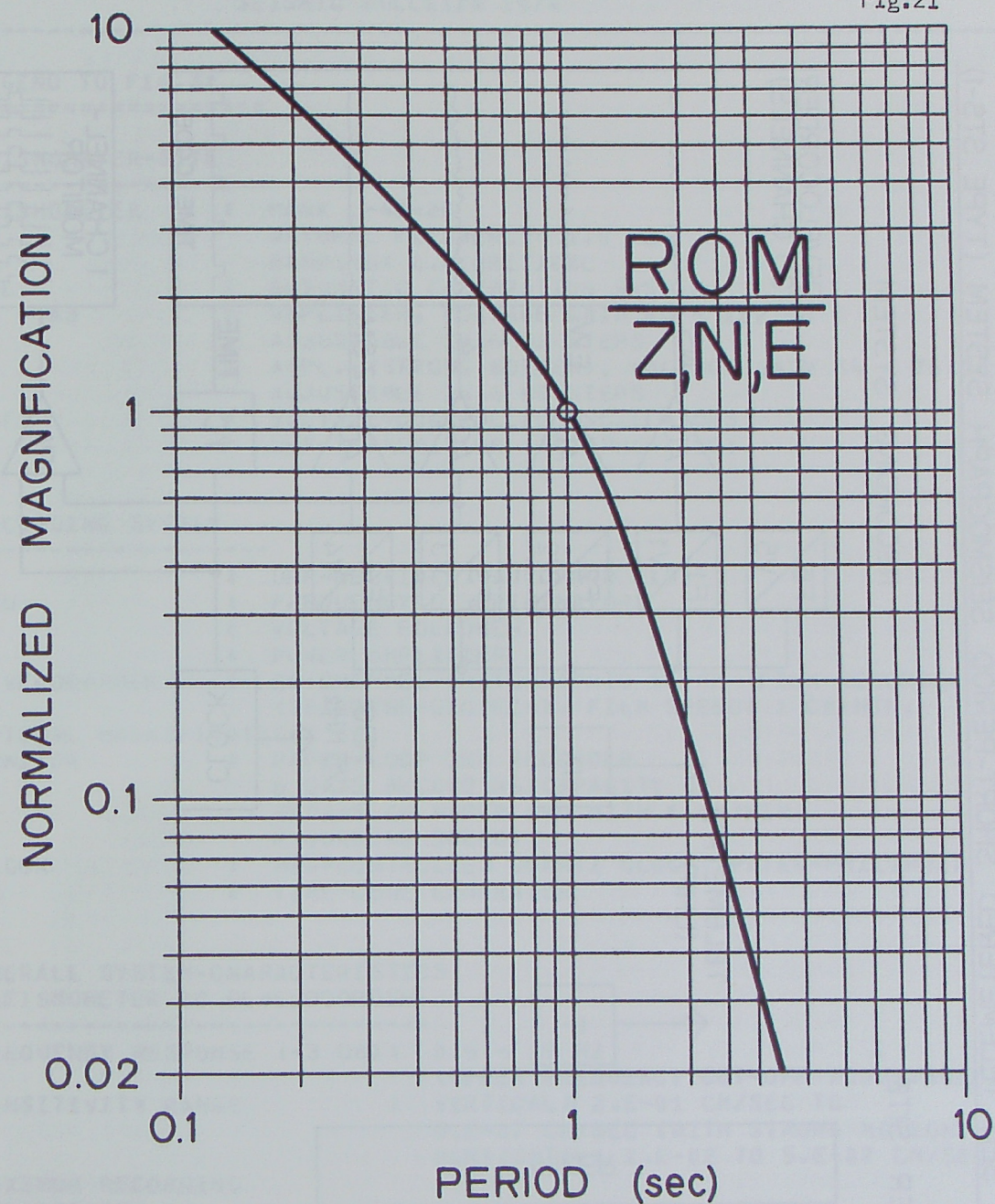
SEISMOMETER : Mark L4-3D

DAMPING: 0.7 ELECTRONICS: STS

RECORDER : Develocorder

MAGNIFICATION at 1 Hz : 20 000

TIMING : Quartz-clock, synchronized by radio HBG(75KHZ)



STATION: Romont (ROM)

INSTALLED : Sept.1974

LAT: 46° 45.18'N

LONG: 6° 55.08'E

ALTITUDE : 620m

OPERATED BY: Schweiz.Erdbebendienst, E.T.H.Zürich

FOUNDATION : Moraine on Molasse Sandstone

SEISMOMETER : Mark L4-3D(1Hz)

DAMPING: 0.7 ELECTRONICS: STS

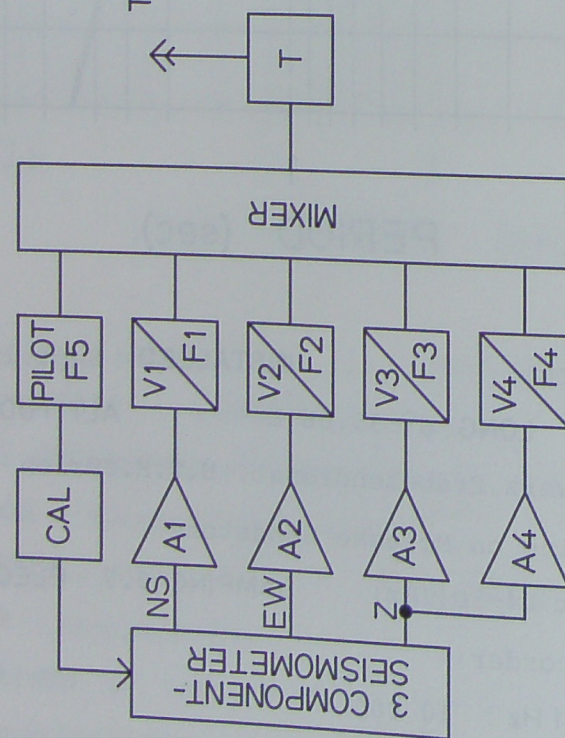
RECORDER : Develocorder

MAGNIFICATION at 1 Hz : 10 000

TIMING : Quartz-clock, synchronized by radio HBG(75KHZ)

BLOCK DIAGRAM OF THE SED TELEMETERED SHORT-PERIOD SEISMOGRAPH SYSTEM (TYPE STS-1)

TYPICAL SEISMOMETER SITE



RECORDING SYSTEM

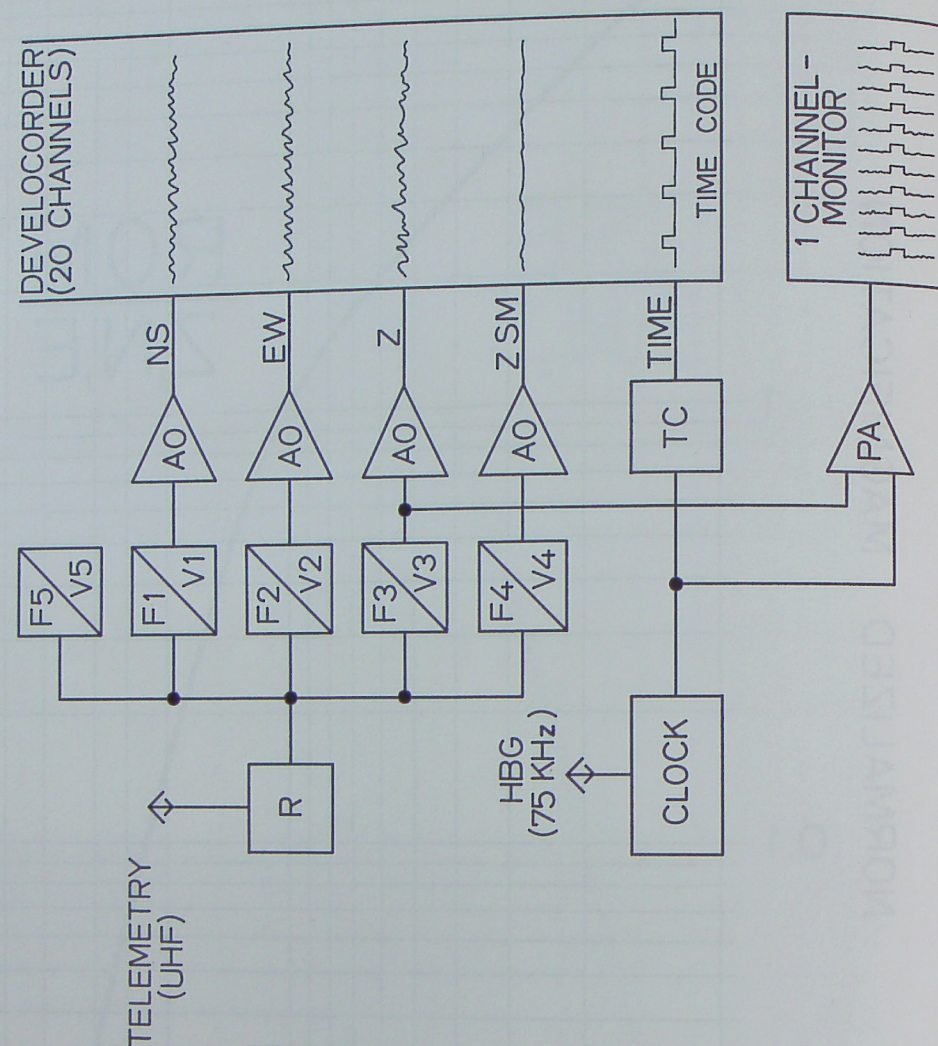


Fig. 3

LEGEND TO FIG. 3:

SEISMOMETER-SITE

- SEISMOMETER : MARK L-4C-3D
NATURAL FREQUENCY= 1.0 HZ
DAMPING: 0.6 CRITICAL
- CAL : AUTOMATIC CALIBRATION SYSTEM
- A1 - A3 : AMPLIFIER, VOLTAGE GAIN 60 - 102 DB
ADJUSTABLE IN 6 DB STEPS
- A4 : AMPL. (STRONG MOTION), VOLTAGE GAIN 34 - 76 DB
ADJUSTABLE IN 6 DB STEPS
- V/F : VOLTAGE-CONTROLLED OSCILLATORS
- T : UHF-TRANSMITTER (AUTOPHON S19)

RECORDING SYSTEM

- R : UHF-RECEIVER (AUTOPHON E19)
- F/U : FREQUENCY DISCRIMINATORS
- AD : VOLTAGE FOLLOWER
- PA : POWER AMPLIFIER
- DEVELOCORDER : 20-CHANNEL PHOTOGRAPHIC 16-MM FILM RECORDER
(TELEDYNE-GEOTECH), FILM SPEED: 1 CM/MIN.
- OPTICAL MAGNIFICATION: 10
- MONITOR : PAPER-LOOP INK RECORDER
6 DAYS RECORDING CAPACITY ON
55*240 CM PAPER AND WITH 6 CM/MIN
RECORDING SPEED.
- CLOCK : HBG-CONTROLLED QUARTZ CLOCK (PATEK-PHILIPPE)
- TC : TIME-CODE GENERATOR

OVERALL SYSTEM-CHARACTERISTICS (SEISMOMETER TO DEVELOCORDER)

- FREQUENCY RESPONSE (-3 DB): 0.9 - 15 HZ
(UPPER FREQUENCY CUT-OFF ADJUSTABLE)
- SENSITIVITY RANGE : VERTICAL: 2.E-01 CM/SEC TO
5.E-07 CM/SEC (WITH STRONG MOTION)
HORIZONTAL: 1.E-02 TO 5.E-07 CM/SEC
- MAXIMUM RECORDING SENSITIVITY : Z,N,E: 1.2E-6 CM/SEC/MM
STRONG MOTION: 2.4E-5 CM/SEC/MM

TABLE 1: SUMMARY OF LOCAL EARTHQUAKES

1974	ORIGIN TIME	LAT	LO	DEPTH	MAG	REGION	IO(MSK)
JAN 15	20:11: 9.1	46N38.1	7E19.4	14KM	3.8	KT.BERN	IV
JAN 15	23:25:10.1	46N37.4	7E19.0	15KM	1.9	KT.BERN	
JAN 15	23:57:49.5	46N39.0	7E14.3	12KM	1.8	KT.BERN	
JAN 16	08: 2: .5	46N40.6	7E16.7	2KM	1.9	KT.BERN	
JAN 18	18:57:39.2	46N18.0	7E16.8	4KM	1.9	VALAIS	
JAN 19	2:49:49.8	46N36.8	7E18.6	15KM	3.9	KT.BERN	V
JAN 19	3: 2:33.5	46N39.7	7E13.5	10KM	2.8	KT.BERN	
JAN 19	7:56:29.7	46N38.9	7E17.0	13KM	1.8	KT.BERN	
JAN 24	19:36:50.2	47N43.4	9E .7	18KM	1.9	BODENSEE	
JAN 25	2: 9:37.3	46N 5.8	7E34.9	10KM	2.1	VALAIS	
JAN 28	1:58:10.6	47N28.1	7E52.4	14KM	.9	BASELLAND	
JAN 28	2:35:32.0	47N27.9	7E53.4	2KM	.8	BASELLAND	
JAN 28	2:37:55.5	47N27.9	7E53.0	10KM	.8	BASELLAND	
JAN 28	2:57:15.4	47N26.0	7E52.9	7KM	1.3	BASELLAND	
JAN 28	4: 6:40.0	47N28.2	7E53.0	2KM	.8	BASELLAND	
JAN 28	5:38:59.4	47N26.5	7E52.7	2KM	1.3	BASELLAND	
JAN 29	0:51:58.9	46N 4.0	7E42.6	10KM	2.1	VALAIS	
JAN 29	19: 6:39.2	46N58.6	8E56.4	10KM	1.4	GLARUS	
JAN 31	6:54:51.5	47N22.2	9E41.3	12KM	2.4	VORARLBERG	
FEB 7	21:49:27.4	46N23.1	7E16.9	2KM	1.8	KT.BERN	
FEB 10	22:34: .6	46N39.0	7E23.6	7KM	3.2	KT.BERN	IV
FEB 11	0:54: .6	46N44.9	7E10.3	14KM	1.7	FRIBOURG	
FEB 11	8:41:50.0	47N28.6	7E45.6	3KM	.9	BASELLAND	
FEB 11	13:44:29.9	46N13.0	7E37.6	3KM	2.9	VALAIS	
FEB 11	14:48:30.7	46N36.1	7E14.5	10KM	1.9	FRIBOURG	
FEB 12	12:35:42.9	46N32.9	6E50.5	10KM	2.6	FRIBOURG	
FEB 13	14: 6:14.5	46N14.4	7E30.1	10KM	1.8	VALAIS	
FEB 14	10:16:10.2	46N14.8	7E29.4	10KM	2.2	VALAIS	
FEB 14	21:24:45.0	47N34.3	7E40.3	2KM	1.4	BASEL	
FEB 16	1:55:59.3	47N30.4	7E52.7	10KM	.8	BASELLAND	
FEB 18	20: 9:36.7	46N13.1	7E36.6	2KM	2.0	VALAIS	
FEB 25	21:23:47.0	46N39.5	7E18.6	10KM	1.8	KT.BERN	
FEB 27	2: 3:13.5	47N28.7	7E32.8	17KM	2.6	BASEL	
MAR 9	16:12:11.5	46N15.2	7E30.3	2KM	1.8	VALAIS	
APR 6	19:31:20.1	46N19.6	7E15.2	10KM	2.4	VALAIS	
APR 22	4:50:33.4	46N50.7	9E28.6	13KM	1.4	GRAUBÜNDEN	
APR 26	7:21: 7.2	47N 6.9	7E51.9	27KM	2.7	KT.BERN	
APR 26	7:25: 7.9	47N 7.6	7E51.4	33KM	2.7	KT.BERN	
MAY 5	15:49:23.7	46N17.6	7E21.6	7KM	2.0	VALAIS	
MAY 12	19:48:13.3	48N16.2	9E 6.0	12KM	3.8	SCHWAB.ALB	V
MAY 18	2:48:49.6	46N44.5	8E30.2	17KM	1.5	URI	
MAY 21	7:42:37.0	47N35.4	7E44.8	24KM	3.2	DINKELEG, D	V
MAY 21	7:59: 5.9	47N35.8	7E49.2	19KM	2.4	DINKELEG, D	
MAY 22	18: 0:44.0	47N49.0	6E56.1	8KM	2.0	ALSACE, F	
MAY 22	21:40:15.2	47N30.3	7E50.0	9KM	.7	BASELLAND	
MAY 25	10:51:39.5	46N .1	6E51.4	10KM		HTE.SAVOIE	
MAY 26	14:11:37.7	46N 1.4	7E19.2	2KM	2.3	VALAIS	
MAY 26	15:13:15.2	46N12.3	9E40.4	10KM	2.1	VALTELLINA	
JUN 7	1:55:29.2	46N 9.7	6E28.0	10KM	3.0	HTE.SAVOIE	
JUN 9	0:18: 7.9	45N48.7	6E33.1	10KM	2.9	HTE.SAVOIE	
JUN 13	0:15:43.3	46N19.4	7E29.8	10KM	1.5	VALAIS	
JUN 25	12: 9:39.6	46N53.4	6E55.6	7KM	1.9	NEUCHATEL	
JUN 28	20:54:11.9	47N24.1	7E42.9	21KM	1.2	BASELLAND	
JUL 5	19: 6:22.1	46N 4.2	7E50.4	10KM	1.8	VALAIS	
JUL 10	4: 4:26.3	45N40.9	6E57.8	10KM	1.9	HTE.SAVOIE	

TABLE 1: SUMMARY OF LOCAL EARTHQUAKES

1974	ORIGIN TIME	LAT	LO	DEPTH	MAG	REGION	IO(MSK)
JUL 10	8:47:39.4	45N41.6	6E57.5	2KM		HTE.SAVOIE	
JUL 10	8:49:55.0	46N54.0	9E 1.9	13KM	1.5	GLARUS	
JUL 18	22:26:24.6	46N41.0	9E51.1	2KM	2.0	GRAUBÜNDEN	
JUL 19	0:55:59.2	46N46.0	6E53.3	5KM	1.8	FRIBOURG	
JUL 26	1:15:40.8	46N48.8	9E45.4	4KM	3.0	GRAUBÜNDEN	IV
JUL 29	4:31: 3.3	46N12.3	7E28.8	10KM	1.9	VALAIS	
AUG 2	10:58:38.1	46N 4.1	9E45.3	10KM	2.8	VALTELLINA	
AUG 4	10:18:30.6	47N36.8	9E22.8	7KM	2.4	BODENSEE	
AUG 4	10:21:26.8	46N32.0	8E36.2	6KM	2.6	TICINO	
AUG 5	17:37:53.3	46N30.8	7E38.5	10KM	1.8	KT.BERN	
AUG 6	18: 7:56.2	46N38.4	9E28.0	8KM	1.9	GRAUBÜNDEN	
AUG 9	21:56:15.8	47N34.9	9E21.7	26KM	1.4	BODENSEE	
AUG 14	1:39:39.2	46N55.6	9E17.7	9KM	1.9	GLARUS	
AUG 15	17:16:15.8	46N12.7	7E32.8	7KM	3.1	VALAIS	III-IV
AUG 23	17:45:45.9	46N49.6	9E27.7	12KM	1.8	GRAUBÜNDEN	
AUG 29	13:30:20.9	46N45.1	9E36.2	3KM	2.0	GRAUBÜNDEN	
SEP 3	0:18:11.5	47N33.6	7E37.0	11KM	2.2	BASEL	III
SEP 3	5:36:59.9	47N30.5	7E35.4	7KM	2.0	BASEL	II
SEP 3	5:53: 6.1	47N31.6	7E34.6	11KM	2.2	BASEL	III
SEP 3	10:52: 4.4	47N33.2	7E38.2	10KM	1.5	BASEL	
SEP 3	17:41:33.9	47N36.4	7E34.3	2KM	1.0	BASEL	
SEP 5	7:10:26.0	47N30.0	7E38.7	15KM	1.6	BASEL	
SEP 6	3:59:12.3	46N51.4	7E11.0	2KM	2.2	FRIBOURG	
SEP 6	4: 2:48.4	46N50.7	7E15.4	2KM	2.7	FRIBOURG	III
SEP 6	5:56:30.4	47N 6.1	7E49.3	11KM	2.5	KT.BERN	
SEP 20	15:50:15.6	46N12.0	6E60.0	10KM	1.7	VAUD	
SEP 21	1:22:39.1	46N56.6	9E25.6	5KM	2.3	GRAUBÜNDEN	
SEP 22	19:40:56.4	45N36.3	6E19.4	2KM	2.1	HTE.SAVOIE	
OCT 9	0:13:28.2	47N31.5	9E16.5	3KM	2.0	THURGAU	
OCT 14	13: 4:57.4	46N32.0	7E17.7	6KM	1.5	KT.BERN	
OCT 15	1:39:50.1	47N15.1	8E45.8	13KM	1.6	KT.ZURICH	
OCT 16	3:42: 8.6	48N17.3	9E 7.3	10KM	3.6	SCHWAB.ALB	V
OCT 16	3:59:11.2	45N57.3	7E 9.0	10KM		HTE.SAVOIE	
OCT 16	15:36: 1.6	47N24.8	9E54.9	14KM	1.6	VORARLEERG	
NOV 5	22:59:51.6	46N 5.6	7E 1.3	10KM	1.7	VALAIS	
NOV 12	2:58:40.0	48N20.5	6E46.4	10KM		FRANCE	IV
NOV 13	7:14: 7.4	46N24.3	7E23.8	3KM	2.1	VALAIS	
NOV 13	7:55:15.1	46N49.8	9E50.2	19KM	2.0	GRAUBÜNDEN	
NOV 19	21:46:10.8	47N39.9	9E21.4	10KM	2.8	BODENSEE	
NOV 20	2:30:30.5	46N53.0	8E 4.5	13KM	1.3	OBWALDEN	
NOV 21	15: 2:30.3	47N38.1	9E56.2	10KM	1.8	VORARLEERG	
NOV 29	17:49:51.0	47N 3.3	7E11.7	10KM	2.1	KT.BERN	
DEC 2	0:23:57.9	47N 9.8	9E34.3	13KM	1.5	LIECHTENST	
DEC 7	17:16:14.2	46N23.2	7E26.7	3KM	1.9	VALAIS	
DEC 12	22:24:30.4	47N42.5	7E34.6	10KM	1.6	ALSACE, F	
DEC 20	16:36:59.5	46N52.3	7E11.4	2KM	2.3	FRIBOURG	
DEC 22	3:24:16.2	46N41.9	6E58.2	4KM	2.2	FRIBOURG	
DEC 24	22:59:34.8	46N17.7	8E52.5	2KM	2.3	TICINO	
DEC 26	5:37:36.6	46N42.7	8E24.7	8KM	1.6	BERN/URI	
DEC 28	9:22:57.6	46N19.0	7E30.1	2KM	1.8	VALAIS	

ERDBEBEN EPIZENTREN JAN 74 BIS DEZ 74

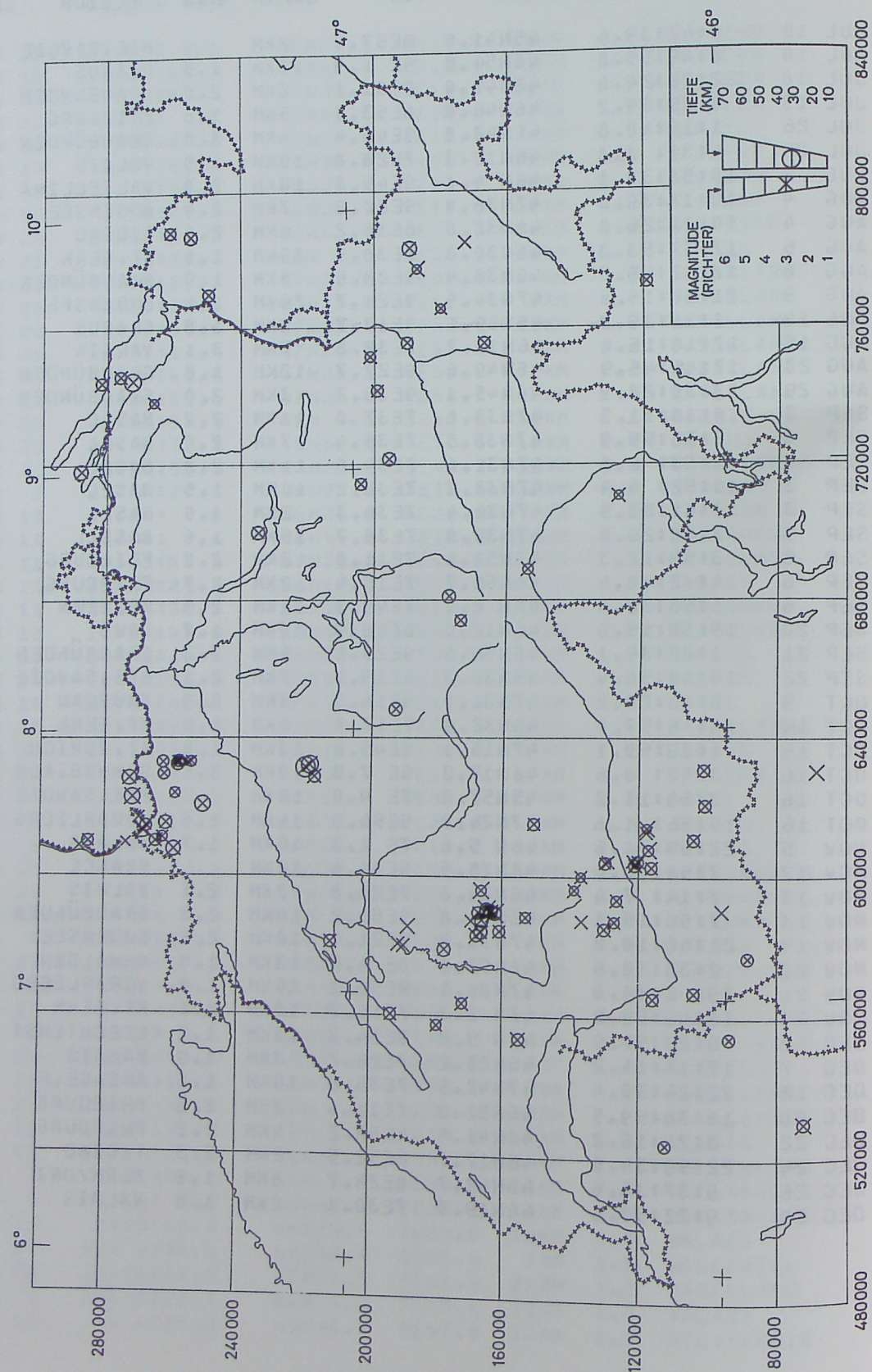


Fig.4: Map of epicenters in Switzerland

1974 FELT EARTHQUAKES



Fig.5

MAKROSEISMISCHE KARTE (MSK-SKALA) 12. MAI 1974 19:47 GMT



Fig.6: Intensity map

MAKROSEISMISCHE KARTE (MSK-SKALA) 21. MAI 1974 7:42 GMT

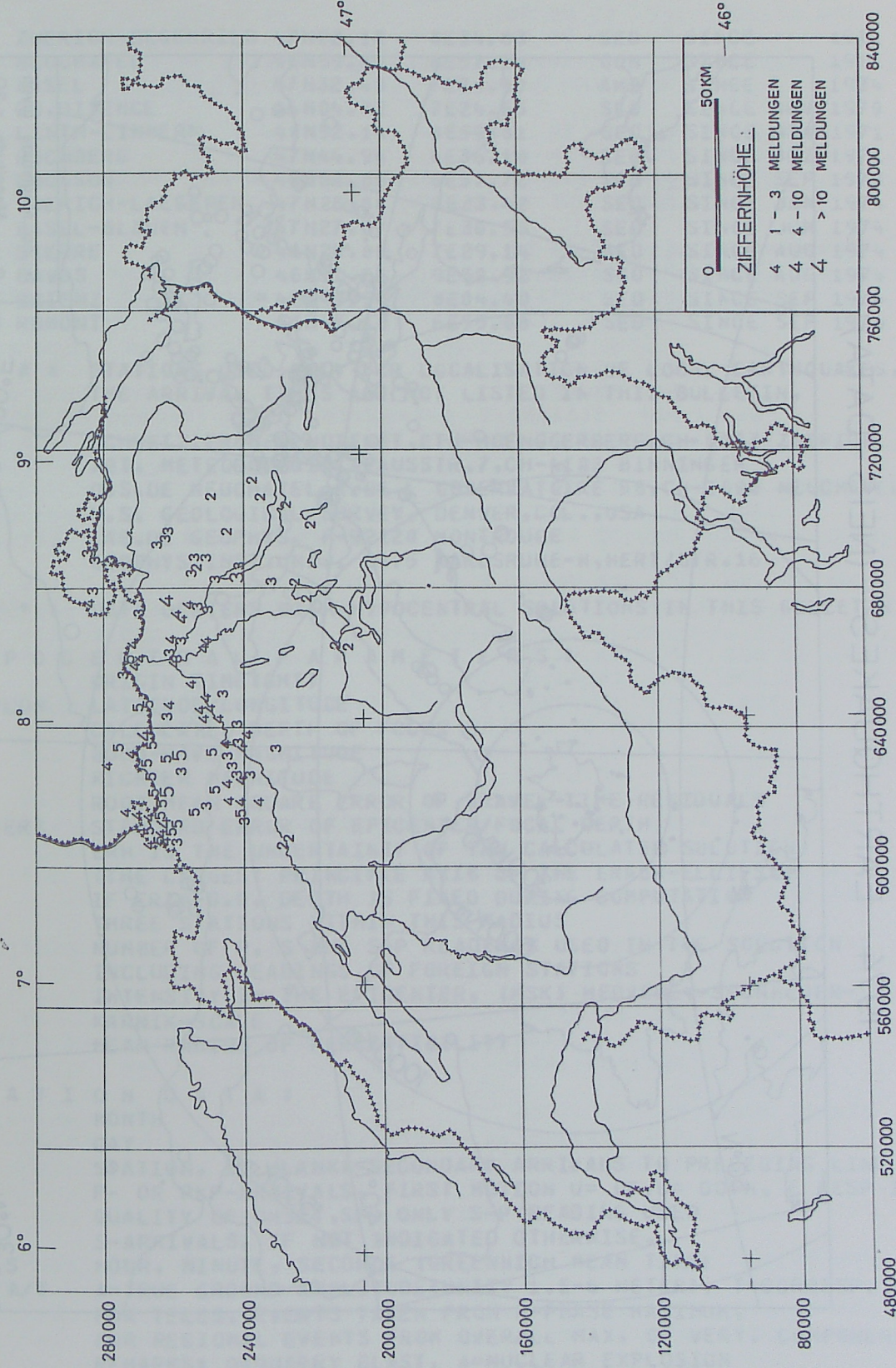


Fig.7: Intensity map

1974 EARTHQUAKES (NEIS - DATA)

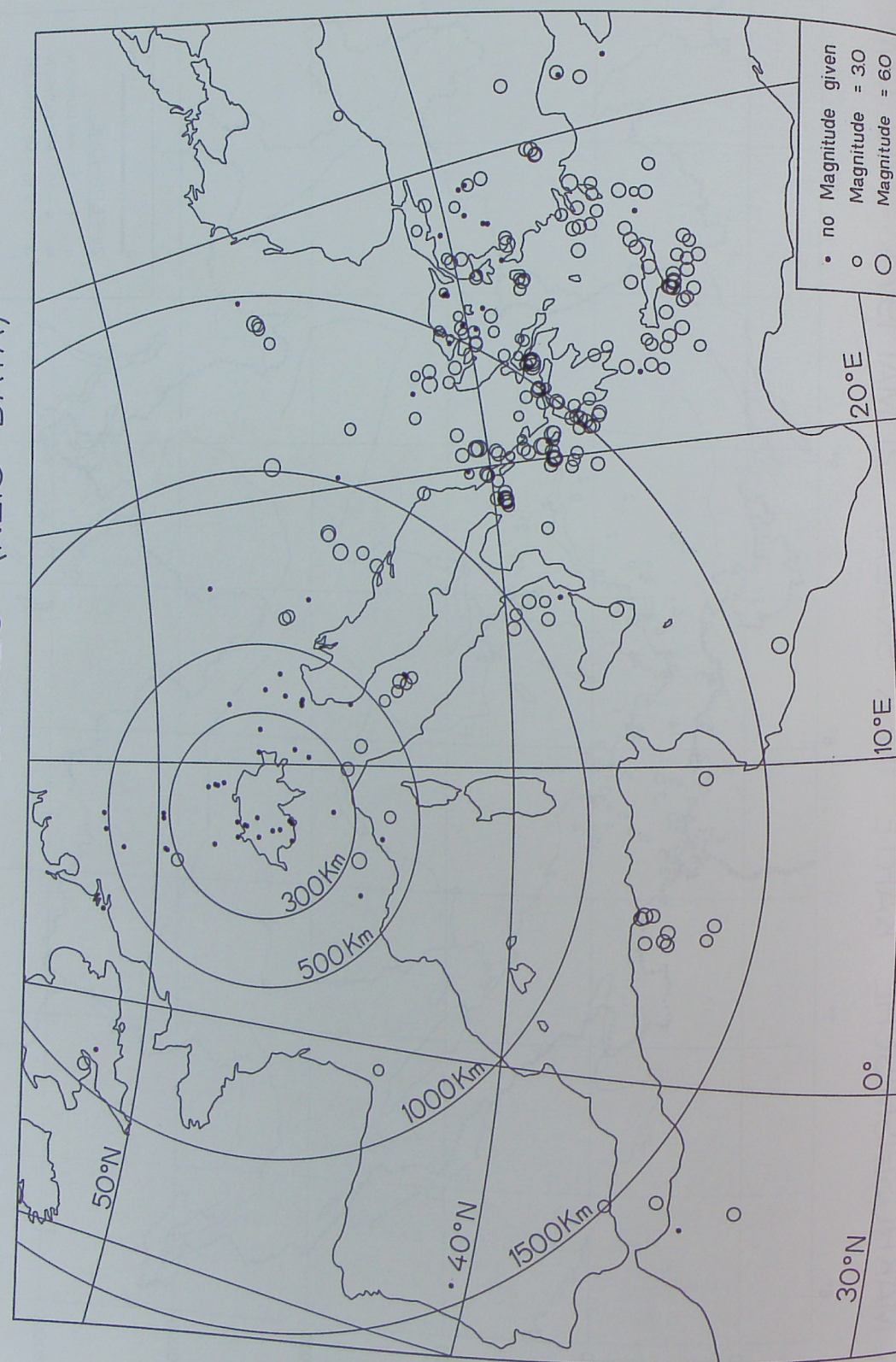


Fig. 8

STATION		LAT	Lon	INST	IN OPERATION
ZUR	ZUERICH-DEGENRIED	47N22.12	8E34.83	SEO	SINCE 1911
NEU	NEUCHATEL	46N59.84	6E57.44	OCN	SINCE 1911
BAS	BASEL	47N32.40	7E34.90	AMB	SINCE 1934
DIX	GD.DIXENCE	46N04.82	7E24.65	SED	SINCE NOV 1970
LIN	LINTH-LIMMERN	46N52.14	8E59.81	SED	SINCE NOV 1971
BUB	BUCHBERG	47N44.94	8E36.18	SEO	SINCE DEZ 1971
EMO	EMOSSON	46N02.89	6E57.72	SED	SINCE SEP 1973
ZUL	ZUERICH-LAEGEREN	47N28.88	8E23.42	SED	SINCE JAN 1974
BLA	BASEL-BLAUEN	47N27.87	7E30.55	SEO	SINCE JUN 1974
*SIE	SIERRE	46N20.80	7E29.14	SEO	SINCE AUG 1974
*DAV	DAVOS	46N51.61	9E50.92	SEO	SINCE AUG 1974
*BRI	BRIENZ	46N45.53	8E04.40	SED	SINCE SEP 1974
*ROM	ROMONT	46N45.18	6E55.08	SED	SINCE SEP 1974

* : STATIONS USED ONLY FOR LOCALISATION OF LOCAL EARTHQUAKES, THE ARRIVAL TIMES ARE NOT LISTED IN THIS BULLETIN.

*SED SCHWEIZ.ERDBEBENDIENST,ETH-HOENGGERBERG,CH-8093 ZUERICH
 *AMB ABT. METEOROLOGIE, VENUSSTR.7, CH-4102 BINNINGEN
 *OCN OBS.DE NEUCHATEL, R. DE L OBSERVATOIRE 58, CH-2000 NEUCHATEL
 *GS U.S. GEOLOGICAL SURVEY, DENVER, COL., USA
 *LDG LAB.DE GEOPHYS. F-92120 MONTROUGE
 *KA GEOPHYS.INST.UNIV. D-75 KARLSRUHE-W, HERTZSTR.16

* : DATA CENTERS WITH HYPOCENTRAL SOLUTIONS IN THIS BULLETIN

HYPOCENTRAL PARAMETERS :

H0 ORIGIN TIME (GMT)
 LAT/LON LATITUDE/LONGITUDE
 Z CALCULATED DEPTH OF FOCUS
 MB BODY-WAVE MAGNITUDE
 ML RICHTER MAGNITUDE
 RMS ROOT MEAN SQUARE ERROR OF TRAVEL-TIME RESIDUALS
 ERH/ERZ STANDARD ERROR OF EPICENTER/FOCAL DEPTH
 ERH IS THE UNCERTAINTY OF THE CALCULATED SOLUTION (THE LARGEST PRINCIPLE AXIS OF THE ERROR-ELLIPSE)
 IF ERZ=-0.0, DEPTH IS FIXED DURING COMPUTATION
 D3 THREE STATIONS WITHIN THIS RADIUS
 NO NUMBER OF P, S AND S-P READINGS USED IN THE SOLUTION INCLUDING READINGS OF FOREIGN STATIONS
 IO INTENSITY IN THE EPICENTER, (MSK) MEDVEDEV-SPONHEUER-KARNIK-SCALE
 R MEAN RADIUS OF PERCEPTIBILITY

STATION DATA :

MO MONTH
 DY DAY
 STA STATION, IF BLANK: SECONDARY ARRIVALS TO PRECEDING LINE
 PRK P- OR PKP-ARRIVALS, FIRST MOTION U= UP, D= DOWN, E RESP I= QUALITY OF ONSET, SP= ONLY S-P READING USED
 SRK S-ARRIVALS, IF NOT INDICATED OTHERWISE.
 H,M,S HOUR, MINUTE, SECONDS (GREENWICH MEAN TIME)
 LOG A/T A=TRUE GROUND AMPLITUDE (UNIT= 1.E-6 METER), T=CORRESP. PERIOD. FOR TELES. EVENTS TAKEN FROM P-PHASE MAXIMUM, FOR REGIONAL EVENTS FROM OVERALL MAX. OF VERT. COMPONENT
 RK REMARKS: Q=QUARRY BLAST, A=NUCLEAR EXPLOSION

PAGE 26		TABLE 2: SEISMIC BULLETIN 1974											
MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG A/T	RK
JAN	02	ZUR	PU	10	55	54				9	1.5	2.6	
		BUB	PU	10	55	55							
		*GS	H0= 10:42:29.9			LAT=22.538S			LCN= 68.397W			Z=105KM MB=6.4	
			NORTHERN CHILE										
JAN	02	BUB	PD	14	54	8				23	1.5	3.0	
		ZUR	PD	14	54	9							
		*GS	H0= 14:41:47.9			LAT=26.022N			LCN=124.383E			Z=205KM MB=5.7	
			NORTHEAST OF TAIWAN										
JAN	05	ZUR	P	7	34	50				1	1.5	1.7	
		BUB	P	7	34	53							
		*GS	H0= 7:33:37.3			LAT=43.430N			LCN= 12.303E			Z= 33KM MB=3.9	
			CENTRAL ITALY										
JAN	05	BUB	PD	8	47	6				18	1.5	2.9	
		ZUR	PD	8	47	6							
		*GS	H0= 8:33:50.7			LAT=12.299S			LCN= 76.352W			Z= 98KM MB=6.3	
			NEAR COAST OF PERU										
JAN	05	BAS	P	11	19	6				19	18.0		
		ZUR	P	11	19	19.5				19	31.3		
		BUB	P	11	19	20.3				19	32.5		
										2	.2	1.4	
JAN	05	BUB	PD	20	20	48.0				20	54.8		
		*KA	H0= 20:20:44.5			LAT=47.950N			LCN= 7.930E			Z= 16KM ML=1.0	
JAN	06	BUB	P	14	41	55				14	1.5	2.8	
		ZUR	P	14	41	55							
		*GS	H0= 14:32:39.9			LAT= 1.503S			LCN= 15.525W			Z= 33KM MB=5.3	
			NORTH OF ASCENSION ISLAND										
JAN	06	ZUR	PKP	17	59	2				6	1.5	2.4	
		BUB	PKP	17	59	2.1							
		*GS	H0= 17:39:44.1			LAT=14.850S			LCN=167.235E			Z=117KM MB=5.6	
			NEW HEBRIDES ISLANDS										
JAN	07	BUB	P	9	1	52				2	8.0		
JAN	07	BUB	PU	9	2	27.1				2	29.0		
										10	.5	2.3	
JAN	07	ZUR	PD	15	31	8				6	1.5	2.4	
		BUB	PD	15	31	9							
		*GS	H0= 15:24:38.2			LAT=33.303N			LCN= 47.924E			Z= 32KM MB=5.0	
			WESTERN IRAN										
JAN	07	BUB	PD	16	49	38				3	1.5	2.1	
		*GS	H0= 16:35:57.8			LAT=26.889S			LCN= 65.704W			Z= 33KM MB=5.0	
			TUCUMAN PROVINCE, ARGENTINA										
JAN	07	ZUR	PD	17	13	59.5				14	5.3		
JAN	08	BUB	PD	10	57	42.7				57	48.0		
										2	.2	1.4	
JAN	08	BUB	PU	11	54	13.7				54	24.0		
		EMO	PU	11	54	17.1				54	29.9		
										1	.2	1.1	

SED		TABLE 2: SEISMIC BULLETIN 1974										PAGE 27		
MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
JAN	08	BUB	P	22	0	30								
		ZUR	P	22	0	30				3	1.5	2.1		
		*GS	: HQ= 21:47:21.6 LAT=38.954S LON= 46.180E Z= 33KM MB=6.0 ATLANTIC-INDIAN RISE											
JAN	09	BUB	P	3	1	41								
		ZUR	P	3	1	43				1	1.5	1.7		
		*GS	: HQ= 2:49:46.2 LAT=51.645N LON=159.639E Z= 33KM MB=5.4 OFF EAST COAST OF KAMCHATKA											
JAN	10	BUB	P	5	30	50				1	1.5	1.7		
		*GS	: HQ= 5:18:54.3 LAT=51.590N LON=159.718E Z= 33KM MB=5.3 OFF EAST COAST OF KAMCHATKA											
JAN	10	BUB	PU	8	24	48.3			24	55.2	3	.2	1.6	
JAN	10	BUB	PKP	9	10	38				28	1.5	3.1		
		ZUR	PKP	9	10	40								
		*GS	: HQ= 8:51:13.3 LAT=14.434S LON=166.863E Z= 34KM MB=6.7 NEW HEBRIDES ISLANDS											
JAN	10	BUB	PD	11	55	49.9				6	1.5	2.4		
		*GS	: HQ= 11:53:32.6 LAT=38.897N LON= 14.822E Z=339KM MB=4.3 SICILY											
JAN	10	BUB	PD	16	26	13				4	1.5	2.3		
		*GS	: HQ= 16:13:25.8 LAT=31.787N LON=131.697E Z= 37KM MB=5.2 KYUSHU, JAPAN											
JAN	10	BUB	PD	22	37	30				3	1.5	2.1		
		ZUR	P	22	37	30								
		*GS	: HQ= 22:31:47.8 LAT=57.327N LON= 33.567W Z= 33KM MB=5.1 NORTH ATLANTIC OCEAN											
JAN	11	BUB	PKP	5	55	57				4	1.5	2.3		
		ZUR	PKP	5	56	0								
		*GS	: HQ= 5:36:30.8 LAT=14.159S LON=166.589E Z= 15KM MB=5.7 NEW HEBRIDES ISLANDS											
JAN	11	BUB	PD	10	7	41.6			7	56.2	2	.4	1.5	
JAN	11	BUB	PU	14	57	51.5			58	2.7	2	.2	1.4	
JAN	12	ZUR	PU	14	48	2.0								
		BUB	PU	14	48	6.1								
JAN	14	ZUR	P	8	47	35								
		LIN	P	8	47	36.0			47	00.0				
		BUB	PU	8	47	38.9					5	1.5	2.4	
JAN	14	BUB	PD	10	6	44.1			6	48.7	7	.2	1.9	
JAN	14	BUB	P	10	17	29					7	1.5	2.5	
JAN	14	BUB	PU	20	43	50					3	1.5	2.1	
		*GS	: HQ= 20:31:43.0 LAT=48.757N LON=154.955E Z= 14KM MB=5.5 KURIL ISLANDS											

PAGE 28 TABLE 2: SEISMIC BULLETIN 1974 SED

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
JAN 15	BUB	PU		8	49	24.7		49	39.2	3	.2	1.6		
JAN 15	BUB	PKP		8	52	50				3	1.5	2.1		
*GS : H0= 8:32:14.0 LAT=30.924S LON=178.928W Z=114KM MB=5.6 KERMADEC ISLANDS														
JAN 15	NEU	P		20	11	17.9		11	25.2					
	DIX	P		20	11	20.2		11	27.8					
	EMO	P		20	11	21.3		11	30.6					
	BAS	P		20	11	26.5		11	41.5	60	.4	3.3		
	ZUR	P		20	11	29.5		11	44.5	100	.4	3.2		
	BUB	P		20	11	33.3		11	51.2					
*SED : H0= 20:11: 9.1 LAT=46N38.1 LCN= 7E19.4 Z= 14KM ML=3.8 RMS= .17S ERH= 2.2KM ERZ= 2.0KM D3= 71KM NO=16 REGION BOLTIGEN,KT.BERN/FRIBOURG(CH) IO= IV (MSK) R= 40 KM INTENS.(MSK): ERLNBACH IV, JAUN IV, LENK (3) IV WEISSENBACH (4) IV, ZWEISIMMEN (4) IV, MANNRIED IV, LAUENEN IV, BOLTIGEN IV, FRUTIGEN III, ADELBOEDEN III, HOR- BODEN III, REUTIGEN III, SCHOENRIED III, MONTREUX II, BUELACH II, ZUERICH II, GOCKHAUSEN II.														
JAN 15	BUB	P		20	18	32		18	51.5	1	.2	1.1		
JAN 15	BUB	P		23	1	35				3	1.5	2.1		
*GS : H0= 22:50:29.9 LAT=32.913N LON=104.203E Z= 33KM MB=5.3 SZECHWAN PROVINCE, CHINA														
JAN 15	DIX	P		23	25	21		25	28.3					
	EMO	P		23	25	22.3		25	31.0					
	BUB	P		23	25	34.5		25	53.2	3	.2	1.6		
*SED : H0= 23:25:10.1 LAT=46N37.4 LCN= 7E19.0 Z= 15KM ML=1.9 RMS= .34S ERH= 7.8KM ERZ= 6.7KM D3=125KM NO= 9 REGION BOLTIGEN,KT.BERN/FRIBOURG(CH)														
JAN 15	EMO	P		23	58	1.7		58	10.5					
	ZUR	P		23	58	11		58	26.0					
	BUB	P		23	58	14.0		58	33.0	2	.2	1.4		
	DIX	SP		23				58	8.4					
*SED : H0= 23:57:49.5 LAT=46N39.0 LCN= 7E14.3 Z= 12KM ML=1.8 RMS= .40S ERH= 7.5KM ERZ= 5.5KM D3=125KM NO=11 REGION BOLTIGEN,KT.BERN/FRIBOURG(CH)														
JAN 16	EMO	P		0	2	13.1		2	22.0					
	ZUR	P		0	2	21.7		2	37.3					
	BUB	P		0	2	25.3		2	44.3	3	.2	1.6		
*SED : H0= 0: 2: .5 LAT=46N40.6 LCN= 7E16.7 Z= 2KM ML=1.9 RMS= .45S ERH= 8.1KM ERZ=-0.0KM D3=125KM NO=11 REGION BOLTIGEN,KT.BERN/FRIBOURG(CH)														
JAN 16	BUB	PKP		11	4	46				9	1.5	2.6		
*GS : H0= 10:45:10.9 LAT=17.454S LON=167.894E Z= 30KM MB=5.3 NEW HEBRIDES ISLANDS														
JAN 18	BUB	PU		17	3	37.3				4	1.5	2.3		

SED TABLE 2: SEISMIC BULLETIN 1974 PAGE 29

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
JAN 18	*GS													
H0= 16:52:43.1 LAT=18.791N LCN= 69.370W Z= 82KM MB=5.3 DOMINICAN REPUBLIC REGION														
JAN 18	DIX	P		18	57	44.0		57	47.3					
	EMO	P		18	57	45.6		57	50.5					
	ZUL	P		18	58	4.2		58	22.5					
	ZUR	P		18	58	4.5		58	23.0					
	BUB	P		18	58	10.5		58	33.0	2	.2	1.4		
*SED : H0= 18:57:39.2 LAT=46N18.0 LCN= 7E16.8 Z= 4KM ML=1.9 RMS= .35S ERH= 3.0KM ERZ= 4.5KM D3=155KM NO=11 REGION SION,KT.VALAIS(CH)														
JAN 18	BUB	PD		21	27	25				6	1.5	2.4		
*GS : H0= 21:14:50.5 LAT=34.175S LCN= 20.237W Z= 33KM MB=5.5 SOUTH ATLANTIC RIDGE														
JAN 19	DIX	P		2	50	1.1		50	7.5					
	EMO	P		2	50	2.1		50	10.0					
	BAS	P		2	50	7.5		50	21.5					
	ZUL	PU		2	50	9.8		50	25.5	150	.4	3.4		
	ZUR	PU		2	50	10.3		50	26.3	100	.4	3.5		
	LIN	P		2	50	11.2		50	27.8					
	BUB	P		2	50	14.2		50	-0.0	150	.4	3.4		
*SED : H0= 2:49:49.8 LAT=46N36.8 LCN= 7E18.6 Z= 15KM ML=3.9 RMS= .61S ERH= 4.3KM ERZ= 4.2KM D3=105KM NO=26 REGION BOLTIGEN,KT.BERN/FRIBOURG(CH) IO= V (MSK) R= 50 KM INTENS.(MSK): ZWEISIMMEN (5) V, ERLNBACH V, MANNRIED IV, LAUENEN IV, WEISSENBACH (3) IV, LENK IV, FRUTIGEN IV, ADELEODEN IV, SCHOEN- RIED IV, LATTERBACH IV, REUTIGEN III, GIFFERS III, SAANEN III, BERN II, WINTERTHUR II.														
JAN 19	DIX	P		3	2	45		2	52.2					
	EMO	P		3	2	46.4		2	55.2					
	BAS	P		3	2	50		3	7.0					
	ZUL	P		3	2	54.5		3	10.5					
	ZUR	P		3	2	54.7		3	10.6					
	LIN	P		3	2	56.5		3	13.0					
	BUB	P		3	2	58.3		3	17.5	14	.3	2.3		
*SED : H0= 3: 2:33.5 LAT=46N39.7 LCN= 7E13.5 Z= 10KM ML=2.8 RMS= .58S ERH= 4.5KM ERZ=-0.0KM D3=101KM NO=17 REGION BOLTIGEN,KT.BERN/FRIBOURG(CH)														
JAN 19	DIX	P		7	56	41		56	49.0					
	EMO	P		7	56	42.0		56	50.8					
	ZUL	P		7	56	50.0		57	5.0					
	ZUR	P		7	56	51.5		57	6.2					
	BUB	P		7	56	53.7		57	12.6	2	.2	1.4		
*SED : H0= 7:56:29.7 LAT=46N38.9 LCN= 7E17.0 Z= 13KM ML=1.8 RMS= .34S ERH= 4.1KM ERZ= 3.5KM D3=124KM NO=11 REGION BOLTIGEN,KT.BERN/FRIBOURG(CH)														
JAN 20	BUB	PKP		5	32	39				5	1.5	2.4		
*GS : H0= 5:13:14.8 LAT=14.364S LCN=166.955E Z= 33KM MB=5.6 NEW HEBRIDES ISLANDS														

PAGE 30										TABLE 2: SEISMIC BULLETIN 1974									
MG	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK					
										1	.2	1.1							
JAN 21	BUB	PU	16	30	51.0					31	10.2								
										3	1.5	2.1							
JAN 22	BUB	PU	13	39	58														
	ZUR	P	13	40	1														
	*GS	H0= 13:28:20.0 LAT=55.204N LCN=162.142E Z= 33KM MB=5.7 NEAR EAST COAST OF KAMCHATKA																	
JAN 24	ZUL	PD	13	21	27.0					2	1.5	2.0							
	BUB	PD	13	21	27.7														
	*GS	H0= 13:19:23.2 LAT=39.810N LCN= 14.589E Z=358KM MB=4.6 TYRRHENIAN SEA																	
JAN 24	BUB	PU	18	54	42					1	1.5	1.7							
	*GS	H0= 18:43:26.8 LAT=61.588N LCN=147.626W Z= 40KM MB=4.8 SOUTHERN ALASKA																	
JAN 24	BUB	PU	19	25	8					23	1.5	3.0							
	ZUL	PU	19	25	10														
	*GS	H0= 19:12:52.1 LAT=42.126N LCN=143.913E Z= 45KM MB=5.9 HOKKAIDO, JAPAN REGION																	
JAN 24	BUB	P	19	36	56.7					37	.7	15	.2	2.3					
	ZUL	P	19	36	59.8					37	6.9	23	.2	2.5					
	LIN	SP	19	36	56.0					37	4.3								
	*SED	H0= 19:36:50.2 LAT=47N43.4 LCN= 9E .7 Z= 18KM ML=1.9 RMS= .37S ERH= 7.3KM ERZ= 4.8KM D3= 76KM NO= 8 REGION RADOLFZELL (BRD)																	
JAN 24	BUB	PD	23	50	27					7	1.5	2.5							
	*GS	H0= 23:38: 8.5 LAT=41.932N LCN=143.954E Z= 41KM MB=5.2 HOKKAIDO, JAPAN REGION																	
JAN 25	BUB	PU	0	45	8					1	1.5	1.7							
JAN 25	DIX	P	2	9	41.0					9	43.4								
	EMO	P	2	9	45.5					9	51.2								
	ZUL	PD	2	10	2.9					10	22.2								
	BUB	PD	2	10	8.7					10	31.5								
	*SED	H0= 2: 9:37.3 LAT=46N 5.8 LCN= 7E34.9 Z= 10KM ML=2.1 RMS= .47S ERH= 5.0KM ERZ=-0.0KM D3=166KM NO= 7 V.O*ANNIVIERS,KT.VALAIS(CH)																	
JAN 25	BUB	PD	8	31	34.3					31	48.0	4	.2	1.7					
JAN 25	BUB	PD	11	36	59.4					37	3.3	2	.2	1.4					
JAN 25	BUB	PD	23	0	5					4	1.5	2.3							
JAN 27	BUB	PD	21	10	21					4	1.5	2.3							
	*GS	H0= 21: 6:20.4 LAT=35.163N LCN= 25.421E Z= 66KM MB=4.5 CRETE																	
JAN 28	ZUL	PU	1	58	17.3					58	22.6	3	.2	1.6					
	BUB	PU	1	58	21.8					58	29.6	1	.2	1.1					
	*SED	H0= 1:58:10.6 LAT=47N28.1 LCN= 7E52.4 Z= 14KM ML= .9 RMS= .27S ERH= 2.8KM ERZ= 4.2KM D3= 47KM NO= 9																	

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
REGION GELTERKINDEN,KT.BASELLAND(CH)														
JAN	28	ZUL	PU	2	35	38.1		35	43.2					
		BUB	PU	2	35	43.0		35	50.3	1	.2	1.1		
		*SED	:	H0=	2:35:32.0		LAT=47N27.9	LCN=	7E53.4	Z=	2KM	ML=	.8	
				RMS=	.32S	ERH=17.4KM	ERZ=-0.0KM	D3=	47KM	NO=	7			
REGION GELTERKINDEN,KT.BASELLAND(CH)														
JAN	28	ZUL	PU	2	38	1.8		38	7.2					
		BUB	PU	2	38	7.1		38	14.2	1	.2	1.1		
		*SED	:	H0=	2:37:55.5		LAT=47N27.9	LCN=	7E53.0	Z=	10KM	ML=	.8	
				RMS=	.49S	ERH= 6.3KM	ERZ=-0.0KM	D3=	47KM	NO=	7			
REGION GELTERKINDEN,KT.BASELLAND(CH)														
JAN	28	ZUL	PU	2	57	22.1		57	27.2					
		BUB	PU	2	57	26.5		57	34.6	3	.2	1.6		
		*SED	:	H0=	2:57:15.4		LAT=47N26.0	LCN=	7E52.9	Z=	7KM	ML=1.3		
				RMS=	.20S	ERH= 1.9KM	ERZ=10.6KM	D3=	50KM	NO=11				
REGION GELTERKINDEN,KT.BASELLAND(CH)														
JAN	28	ZUL	PU	4	6	46.1		6	51.2					
		BUB	PU	4	6	51.3		6	58.5	1	.2	1.1		
		*SED	:	H0=	4: 6:40.0		LAT=47N28.2	LCN=	7E53.0	Z=	2KM	ML=	.8	
				RMS=	.41S	ERH= 5.0KM	ERZ=-0.0KM	D3=	46KM	NO=	7			
REGION GELTERKINDEN,KT.BASELLAND(CH)														
JAN	28	ZUL	PU	5	39	6.2		39	10.7					
		BUB	PU	5	39	10.2		39	18.2	3	.2	1.6		
		*SED	:	H0=	5:38:59.4		LAT=47N26.5	LCN=	7E52.7	Z=	2KM	ML=1.3		
				RMS=	.18S	ERH= 1.6KM	ERZ=-0.0KM	D3=	49KM	NO=10				
REGION GELTERKINDEN,KT.BASELLAND(CH)														
JAN	28	ZUL	PU	19	58	27.1		59	12.0					
		BUB	PU	19	58	29.2		59	16.0	2	1.5	2.0		
JAN	29	DIX	P	0	52	4.0		52	7.0					
		EMO	P	0	52	8.8		52	15.3					
		ZUL	PU	0	52	23.6		52	43.2					
		BUB	PU	0	52	28.8		52	51.2	3	.2	1.6		
		*SED	:	H0=	0:51:58.9		LAT=46N 4.0	LCN=	7E42.6	Z=	10KM	ML=2.1		
				RMS=	.49S	ERH=10.5KM	ERZ=-0.0KM	D3=106KM	NO=	8				
REGION ZERMATT,KT.VALAIS(CH)														
JAN	29	LIN	P	19	6	41.5		6	42.7					
		ZUL	P	19	6	50.1		7	3.7					
		BUB	PD	19	6	54.7		7	5.2	2	.2	1.4		
		*SED	:	H0=	19: 6:39.2		LAT=46N58.6	LCN=	8E56.4	Z=	10KM	ML=1.4		
				RMS=	.87S	ERH=14.6KM	ERZ=-0.0KM	D3=	90KM	NO=	7			
REGION SCHWANDEN,KT.GLARUS(CH)														
JAN	30	ZUL	P	1	47	51		48	27.0					
		BUB	PD	1	47	54		48	31.0	1	1.5	1.7		
JAN	30	BUB	PU	5	5	15				6	1.5	2.4		A
		ZUL	P	5	5	18								
		*GS	:	H0=	4:56:57.6		LAT=49.894N	LCN=	77.993E	Z=	0KM	MB=4.6		
				EAST										

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG A/T	RK
JAN	30	BUB	PU	9	51	53				1	1.5	1.7	
JAN	31	BUB	PU	6	55	7.5		55	18.0	20	.2	2.4	
		LIN	SP	6	55	10.5		55	18.3				
		*SED :	H0=	6:54:51.5			LAT=47N22.2	LCN=	9E41.3	Z=	12KM	ML=2.4	
			RMS=	.49S	ERH=	7.5KM	ERZ=	4.2KM	D3=135KM	NO=11			
				VORARLBERG(A)									
JAN	30	BUB	PD	7	16	33				11	1.5	2.7	
JAN	31	BUB	PU	20	7	34.6				9	1.5	2.6	
		ZUL	P	20	7	36							
		*GS :	H0=	19:55:26.2			LAT=52.357N	LCN=168.740W	Z=	36KM	MB=5.6		
				FOX ISLANDS, ALEUTIAN ISLANDS									
JAN	31	BUB	PD	20	38	53				6	1.5	2.4	
JAN	31	BUB	PKP	23	49	15				11	1.5	2.7	
		*GS :	H0=	23:30:5.3			LAT= 7.461S	LCN=155.894E	Z=	34KM	MB=6.0		
				SOLOMON ISLANDS									
FEB	01	BUB	PD	0	4	49				18	1.5	2.9	
		ZUL	PD	0	4	50							
FEB	01	ZUL	PKP	3	31	42				14	1.5	2.8	
		BUB	PKP	3	31	43							
		*GS :	H0=	3:12:33.1			LAT= 7.383S	LCN=155.575E	Z=	40KM	MB=6.2		
				SOLOMON ISLANDS									
FEB	01	BUB	PD	7	24	50				7	1.5	2.5	
FEB	01	BUB	PD	8	35	41.2		35	52.4	3	.3	1.6	
		ZUL	P	8	35	41.6		35	53.0	2	.2	1.4	
FEB	01	LIN	P	19	55	0.0		55	21.4				
		ZUL	P	19	55	4		55	29.0	5	.3	1.9	
		BUB	PU	19	55	4.3		55	29.2	9	.2	2.0	
FEB	02	BUB	PKP	8	46	52				9	1.5	2.6	
		ZUL	PKP	8	46	53							
		*GS :	H0=	8:27:40.2			LAT=19.104S	LCN=169.491E	Z=	269KM	MB=5.6		
				NEW HEBRIDES ISLANDS									
FEB	02	BUB	PD	16	6	31				5	1.5	2.4	
		ZUL	P	16	6	33							
		*GS :	H0=	15:55:28.3			LAT=61.602N	LCN=147.603W	Z=	48KM	MB=5.1		
				SOUTHERN ALASKA									
FEB	03	BUB	PD	10	21	44				6	1.5	2.4	
		ZUL	P	10	21	45							
		*GS :	H0=	10: 8:48.4			LAT=18.909N	LCN=120.070E	Z=	30KM	MB=5.9		
				LUZON, PHILIPPINE ISLANDS									
FEB	04	BUB	PU	7	52	53.2		53	3.6	1	.3	1.2	
		ZUL	PU	7	52	56.9		53	11.2				
FEB	04	BUB	PD	14	3	7.0		3	19.0	3	.2	1.6	

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
FEB	04	ZUL	PD	14	3	9.3				3	.2	1.6		
FEB	04	BUB	P	14	3	49		4	7.0	2	.2	1.4		
		ZUL	P	14	3	53		4	12.0	2	.2	1.4		
FEB	04	ZUL	P	15	32	28.8		32	40.2					
		BUB	P	15	32	29.0		32	42.1	4	.2	1.7		
FEB	04	BUB	PD	15	32	51		33	7.0	2	.9	1.7		
		ZUL	P	15	32	58								
FEB	04	BUB	PU	20	26	3.5		26	12.2	3	.2	1.6		
		ZUL	PU	20	26	10.0		26	22.2	3	.2	1.6		
FEB	04	BUB	PKP	20	29	51				5	1.5	2.4		
		*GS	:	H0=	20:10:42.0		LAT=	7.297S	LON=	155.831E	Z=	55KM	MB=	5.4
					SOLOMON ISLANDS									
FEB	04	BUB	PU	20	33	21				6	1.5	2.4		
FEB	05	BAS	P	10	42	35		42	38.0					
		ZUL	PD	10	42	44.6		42	55.0	3	.2	1.6		
		BUB	P	10	42	46.6		42	58.4	1	.2	1.1		
FEB	05	BUB	PD	12	29	6.7		29	19.0	5	.2	1.8		
		ZUL	PD	12	29	12.1		29	27.0	3	.2	1.6		
FEB	05	BUB	PD	12	56	10.3		56	25.7	2	.2	1.4		
		ZUL	PU	12	56	16.7		56	35.0	2	.2	1.4		
FEB	05	BUB	P	15	9	17				9	1.5	2.6		
		ZUL	P	15	9	18								
		*GS	:	H0=	15: 5:24.2		LAT=	36.819N	LCN=	27.016E	Z=	153KM	MB=	4.8
					DODECANESE ISLANDS									
FEB	05	ZUL	PU	15	47	25								
		BUB	PU	15	47	29.6		47	41.2	2	.2	1.4		
		LIN	SP	15	47	0.0		47	14.0					
FEB	05	BUB	PD	18	27	42				3	1.5	2.1		
		*GS	:	H0=	18:23:26.2		LAT=	37.309N	LCN=	29.583E	Z=	39KM	MB=	4.4
					TURKEY									
FEB	06	ZUL	PU	0	5	11.3		5	19.0	1	.2	1.1		
		BUB	PU	0	5	13.2		5	22.3	3	.2	1.6		
		*KA	:	H0=	0: 5:13.2		LAT=	47.570N	LCN=	7.630E	Z=	0KM	ML=	.5
					BASEL									
FEB	06	BUB	PD	4	16	12.7				11	1.5	2.7		
		*GS	:	H0=	4: 4: 7.2		LAT=	53.799N	LCN=	164.672W	Z=	2KM	MB=	5.9
					UNIMAK ISLAND REGION									
FEB	07	DIX	P	21	49	34.0		49	38.0					
		EMO	P	21	49	35.4		49	40.7					
		ZUL	P	21	49	51.8		50	10.9	2	.2	1.4		
		BUB	PU	21	49	57.4		50	19.2	2	.2	1.4		
		*SED	:	H0=	21:49:27.4		LAT=	46N23.1	LCN=	7E16.9	Z=	2KM	ML=	1.8
					RMS=	.39S	ERH=	4.1KM	ERZ=	-0.0KM	D3=	148KM	NO=	9

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
REGION GSTEIG, KT. BERN (CH)														
FEB 08	BAS	P		13	27	32								
	ZUL	PU		13	27	34.7		27	41.0	1	1.0	1.0		
	BUB	PU		13	27	35.6		27	44.2	3	1.1	1.9		
	LIN	P		13	27	42		27	49.0					
FEB 08	BUB	PU		14	33	26				3	1.5	2.1		
	ZUL	P		14	33	27								
*GS : H0= 14:21:37.4 LAT=54.402N LON=167.595E Z= 33KM MB=5.4														
KOMANDORSKY ISLANDS REGION														
FEB 08	BUB	PU		14	37	47.6		37	58.0					
	ZUL	PU		14	37	51		37	60.0					
FEB 08	ZUL	P		14	53	24.3		53	37.7	2	.4	1.5		
	BUB	PU		14	53	28.8		53	43.2	2	.6	1.6		
	LIN	P		14	53	29.2								
FEB 08	BUB	PKP		18	43	17				6	1.5	2.4		
	ZUL	P		18	44	18								
*GS : H0= 18:24:32.2 LAT=21.377S LON=170.103E Z= 33KM MB=5.4														
LOYALTY ISLANDS REGION														
FEB 08	ZUL	PD		20	13	12.1				10	.5	2.3		
	BUB	PD		20	13	15.7				18	1.5	2.9		
*GS : H0= 20:12:17.7 LAT=44.197N LON= 6.542E Z= 33KM MB=4.9														
FRANCE														
FEB 10	EMO	SP		22	34	0.0		34	8.0					
	DIX	P		22	34	12.0		34	19.5					
	BAS	P		22	34	19								
	ZUL	PU		22	34	20.8		34	36.7	35	.3	2.7		
	BUB	PU		22	34	25.1		34	43.7	65	.3	3.0		
*SED : H0= 22:34: .6 LAT=46N39.0 LON= 7E23.6 Z= 7KM ML=3.2														
RMS= .55S ERH= 4.7KM ERZ= 4.9KM D3=120KM NO=17														
REGION BOLTIGEN, KT. BERN/FRIBOURG (CH)														
IO= IV (MSK) R= 20 KM														
INTENS. (MSK): ZWEISIMMEN IV, FRUTIGEN IV,														
REICHENBACH I.S. III.														
FEB 11	EMO	SP		0	54	12		54	22.0					
	ZUL	PU		0	54	20.4		54	35.2	1	.3	1.2		
	BUB	PU		0	54	24.6		54	42.5	2	.3	1.5		
*SED : H0= 0:54: .6 LAT=46N44.9 LON= 7E10.3 Z= 10KM ML=1.7														
RMS= .24S ERH=19.0KM ERZ=-0.0KM D3=123KM NO= 7														
REGION FRIBOURG (CH)														
FEB 11	ZUL	P		8	41	58.1		42	4.2	1	.2	1.1		
	BUB	PU		8	42	1.9		42	10.7	2	.2	1.4		
*SED : H0= 8:41:50.0 LAT=47N28.6 LON= 7E45.6 Z= 2KM ML=1.2														
RMS= .09S ERH= 3.6KM ERZ=-0.0KM D3= 70KM NO= 6														
REGION LIESTAL, KT. BASELSTADT (CH)														
FEB 11	ZUL	PU		13	44	55.0		45	13.3	25	.2	2.5		
	BUB	PU		13	44	58.7		45	19.8	25	.2	2.5		
	BAS	P		13	45	2		45	12.0					
	DIX	SP		13	45	35		45	38.0					

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
FEB 11	LIN	SP		13	44	55								
	EMO	SP		13	45	0.0		45	10.0					
*SED : H0= 13:44:29.9 LAT=46N13.0 LON= 7E37.6 Z= 3KM ML=2.9														
RMS= .45S ERH=10.1KM ERZ= 8.1KM D3=128KM NO=17														
V.D. ANNIVIERS, KT. VALAIS (CH)														
FEB 11	EMO	SP		14	48	43		48	51.0					
	ZUL	P		14	48	52.2		49	7.7	2	.2	1.4		
	BUB	P		14	48	56		49	14.7	2	.5	1.6		
*SED : H0= 14:48:30.7 LAT=46N36.1 LON= 7E14.5 Z= 10KM ML=1.9														
RMS= .22S ERH= 7.2KM ERZ=-0.0KM D3=131KM NO= 6														
JAUNPASS, KT. FRIBOURG (CH)														
FEB 11	ZUL	PU		14	59	30.1		59	44.2	1	.2	1.1		
	BUB	PU		14	59	32.5		59	48.7	1	.2	1.1		
FEB 12	ZUL	PU		10	56	35.7		56	38.7	18	.2	2.3		Q
	BUB	PU		10	56	39.5		56	44.9	7	.2	1.9		
	EMO	P		10	57	5		57	29.0					
FEB 12	DIX	P		12	34	45.0		34	47.3					
	EMO	P		12	34	51.5		34	58.0					
FEB 12	EMO	SP		12	36	0.0		36	6.6					
	ZUL	PU		12	36	8.1		36	27.2	12	.2	2.2		
	BUB	PU		12	36	13.7		36	36.1	13	.2	2.2		
*SED : H0= 12:35:42.9 LAT=46N32.9 LON= 6E50.5 Z= 10KM ML=2.6														
RMS= .99S ERH=15.5KM ERZ=-0.0KM D3=157KM NO=10														
REGION CHATEL ST. CENIS, KT. FRIBOURG (CH)														
FEB 12	BUB	PU		15	16	47.0		17	1.0	4	.2	1.7		
	ZUL	PU		15	16	50.0		17	3.0	1	.2	1.1		
FEB 13	DIX	P		14	6	18.5		6	21.0					
	EMO	P		14	6	22.5		6	29.0					
	ZUL	PD		14	6	39.6		6	57.2	2	.2	1.4		
	BUB	PD		14	6	44.6		7	7.3	2	.2	1.4		
*SED : H0= 14: 6:14.5 LAT=46N14.4 LON= 7E30.1 Z= 10KM ML=1.8														
RMS= .62S ERH= 5.1KM ERZ=-0.0KM D3=154KM NO= 7														
REGION SIERRE, KT. VALAIS (CH)														
FEB 14	DIX	P		10	16	14.5		16	16.7					
	EMO	P		10	16	18.3		16	24.5					
	ZUL	PU		10	16	35.0		16	54.2	5	.2	1.8		
	BUB	PU		10	16	40.2		17	3.1	4	.3	1.8		
*SED : H0= 10:16:10.2 LAT=46N14.8 LON= 7E29.4 Z= 10KM ML=2.2														
RMS= .49S ERH= 6.2KM ERZ=-0.0KM D3=153KM NO= 8														
REGION SIERRE, KT. VALAIS (CH)														
FEB 14	EMO	P		10	49	9.6		49	12.2					
	ZUL	PD		10	49	35.2		49	37.8	12	.5	2.3		
	BUB	PD		10	49	38.8		49	44.0	5	.6	2.0		
FEB 14	BUB	PD		16	17	19.9		17	34.2	4	.2	1.7		
	ZUL	PD		16	17	22.3		17	38.0	2	.2	1.4		
FEB 14	ZUL	PD		21	24	55.2		25	2.9	3	.2	1.6		

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
FEB	27	BAS	P	2	3	16.0		3	19.0					
		ZUL	PU	2	3	24.7		3	32.6	55	.2	2.8		
		BUB	PU	2	3	28.2		3	38.1	39	.2	2.7		
		EMO	SP	2	3	37.6		3	55.0					
		LIN	P	2	3	38		3	51.0					
		DIX	P	2	3	39		3	57.0					
		*SED : H0= 2: 3:13.5 LAT=47N28.7 LON= 7E32.8 Z= 17KM ML=2.6 RMS= .45S ERH= 3.0KM ERZ= 1.8KM D3= 57KM NO=19 REGION BASEL (CH)												
FEB	27	BUB	PU	18	14	34				6	1.5	2.4		
		ZUL	P	18	14	38								
		*GS : H0= 18: 1:48.7 LAT= 1.271N LON= 97.669E Z= 33KM MB=5.9 NORTHERN SUMATRA												
FEB	27	BUB	PU	22	44	7.2		44	11.7	3	.2	1.6		
		ZUL	P	22	44	13.5		44	22.2	2	.2	1.4		
FEB	28	BUB	PD	1	22	24.6		22	35.7	2	.2	1.4		
		ZUL	P	1	22	27.4		22	40.2	1	.2	1.1		
FEB	28	ZUL	PD	4	45	50.6		45	60.0	4	.2	1.7		
		BUB	PD	4	45	51.2		46	1.8	5	.2	1.8		
FEB	28	ZUL	PU	11	35	8.8		35	18.7	25	.2	2.5		
		BUB	PU	11	35	9.6		35	19.9	70	.2	2.9		
FEB	28	BUB	PKP	14	20	20				6	1.5	2.4		
		*GS : H0= 13:59:17.8 LAT=36.813S LON=176.851E Z= 15KM MB=5.8 OFF E. COAST OF N. ISLAND, N.Z.												
FEB	28	BUB	PKP	14	26	22				4	1.5	2.3		
		*GS : H0= 14: 5:20.1 LAT=36.695S LON=177.113E Z= 28KM MB=5.7 OFF E. COAST OF N. ISLAND, N.Z.												
FEB	28	BUB	PU	20	28	8				7	1.5	2.5		
		*GS : H0= 20:15:36.9 LAT= 9.229N LON= 84.153W Z= 59KM MB=5.2 COSTA RICA												
FEB	28	BUB	PU	20	32	40				28	1.5	3.1		
		ZUL	P	20	32	41								
		*GS : H0= 20:20:10.2 LAT= 9.336N LON= 84.064W Z= 46KM MB=5.8 COSTA RICA												
MAR	02	BUB	P	5	6	58.2								
MAR	03	BUB	PD	5	3	25				7	1.5	2.5		
MAR	03	BUB	PU	13	12	51.5				7	1.5	2.5		
MAR	03	ZUL	PU	14	42	24								
		BUB	PU	14	42	24.5				11	1.5	2.7		
MAR	04	ZUL	PD	2	18	8.6		18	43.4					
		BUB	PD	2	18	9.3		18	44.4	5	1.5	2.4		
MAR	04	BUB	P	12	57	40				3	1.5	2.1		

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
MAR	04	ZUL	P	12	57	42								
MAR	06	BUB	PU	1	52	45								
		*GS : H0= 1:40:26.4 LAT=12.289N LON= 86.386W Z=110KM MB=5.8 NICARAGUA												
MAR	06	BUB	PD	1	53	19				23	1.5	3.0		
		ZUL	P	1	53	19								
MAR	07	BUB	PU	1	54	16.1		54	23.0	2	.2	1.4		
		ZUL	PU	1	54	20.5		54	30.4	1	.2	1.1		
MAR	07	BUB	P	11	42	57				6	1.5	2.4		
		*GS : H0= 11:36: 2.4 LAT=37.599N LON= 55.828E Z= 21KM MB=5.1 IRAN-USSR BORDER REGION												
MAR	08	BUB	PD	2	37	56.5				4	1.5	2.3		
		*GS : H0= 2:33:53.1 LAT=34.781N LON= 24.722E Z= 50KM MB=4.5 CRETE												
MAR	08	BUB	PD	9	37	44				3	1.5	2.1		
		*GS : H0= 9:25: 6.1 LAT=30.916N LON=131.625E Z= 42KM MB=5.5 KYUSHU, JAPAN												
MAR	08	ZUL	P	12	59	36		59	49.0	2	.2	1.4		
		BUB	PU	12	59	40.7		59	54.6	2	.2	1.4		
MAR	09	BUB	P	4	16	14				2	1.5	2.0		
		*GS : H0= 4:12: 7.7 LAT=34.631N LON= 25.054E Z= 54KM MB=4.6 CRETE												
MAR	09	DIX	P	16	12	15.4				12	17.6			
		EMO	P	16	12	19.5				12	26.0			
		ZUL	P	16	12	35.9				12	55.2	2	.2	1.4
		BUB	P	16	12	41.2				13	3.7	2	.2	1.4
		*SED : H0= 16:12:11.5 LAT=46N15.2 LON= 7E30.3 Z= 2KM ML=1.8 RMS= .62S ERH= 6.1KM ERZ=-0.0KM D3=152KM NO= 7 REGION SIERRE,KT.VALAIS(CH)												
MAR	09	ZUL	PKP	18	0	29								
		BUB	PKP	18	0	30.0				6	1.5	2.4		
		*GS : H0= 17:41:20.1 LAT=18.995S LON=169.564E Z=286KM MB=5.4 NEW HEBRIDES ISLANDS												
MAR	09	BUB	PKP	20	33	36				5	1.5	2.4		
		*GS : H0= 20:14:28.3 LAT= 7.484S LON=156.179E Z= 50KM MB=5.8 SOLOMON ISLANDS												
MAR	10	BUB	P	16	30	57				1	1.5	1.7		
		*GS : H0= 16:17: 8.8 LAT= .403N LON= 80.047W Z= 43KM MB=5.1 NEAR COAST OF ECUADOR												
MAR	11	BUB	PU	11	49	21				14	1.5	2.8		
		*GS : H0= 11:37:33.5 LAT=48.323N LON=153.200E Z=169KM MB=5.9 KURIL ISLANDS												
MAR	12	BUB	PD	9	34	14.7				34	28.2	7	.2	1.9

PAGE 40 TABLE 2: SEISMIC BULLETIN 1974														SED
MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
MAR	12	ZUL	PD	9	34	19.5		34	37.1	3	.2	1.6		
MAR	12	BUB	PD	18	25	32				1	1.5	1.7		
*GS : H0= 18:21:33.9 LAT=36.820N LON= 26.326E Z= 39KM MB=4.7														
DODECANESE ISLANDS														
MAR	13	ZUL	P	10	0	22				3	1.5	2.1		
		BUB	PD	10	0	23								
MAR	13	ZUL	PU	13	14	57.2		14	60.0	12	.5	2.3		
		BUB	PU	13	15	0.7		15	6.2	5	.5	2.0		
MAR	13	ZUL	PD	14	56	38.0		56	50.4	2	.3	1.5		
		BUB	PD	14	56	42.5		56	57.6	2	.8	1.7		
MAR	13	ZUL	P	17	24	50				7	1.5	2.5		
		BUB	PU	17	24	51.5								
*GS : H0= 17:20:45.5 LAT=34.651N LON= 24.831E Z= 51KM MB=4.6														
CRETE														
MAR	13	ZUL	P	23	20	23.7				1	1.5	1.7		
		BUB	PD	23	20	25.8								
MAR	14	BUB	PKP	10	32	17.4				4	1.5	2.3		
*GS : H0= 10:12:27.6 LAT=20.199S LON=169.956E Z= 1KM MB=5.2														
NEW HEBRIDES ISLANDS														
MAR	14	ZUL	P	20	59	53.5				1	1.5	1.7		
		BUB	PD	20	59	54.6								
*GS : H0= 20:57:34.4 LAT=41.853N LON= 19.383E Z= 33KM MB=4.3														
ALBANIA														
MAR	14	BUB	PKP	21	18	21.4				1	1.5	1.7		
*GS : H0= 20:58:54.8 LAT=13.862S LON=166.765E Z= 18KM MB=5.6														
NEW HEBRIDES ISLANDS														
MAR	14	BUB	PKP	21	55	4				4	1.5	2.3		
*GS : H0= 21:35:23.0 LAT=19.155S LON=167.671E Z= 33KM MB=5.2														
NEW HEBRIDES ISLANDS REGION														
MAR	14	BUB	PKP	23	13	1.7				4	1.5	2.3		
*GS : H0= 22:54: 9.0 LAT=19.162S LON=177.832W Z=542KM MB=5.0														
FIJI ISLANDS REGION														
MAR	16	BUB	PU	10	15	44.2		16	1.0	4	.3	1.8		
MAR	17	BUB	PD	4	9	56.5				9	1.5	2.6		
		ZUL	P	4	9	57								
*GS : H0= 3:57: 7.1 LAT= 1.294N LON= 98.555E Z= 61KM MB=5.7														
NORTHERN SUMATRA														
MAR	18	BUB	PKP	11	15	52				14	1.5	2.8		
		ZUL	PKP	11	15	54								
*GS : H0= 10:56:12.4 LAT=14.929S LON=172.833W Z= 27KM MB=5.9														
SAMOA ISLANDS														
MAR	20	BUB	PD	18	2	3.0		2	13.0	2	.2	1.4		

PAGE 41 TABLE 2: SEISMIC BULLETIN 1974														SED
MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
MAR	20	ZUL	P	18	2	6				2	20.0	2	.2	1.4
MAR	22	BUB	PD	17	4	58				3	1.5	2.1		
*GS : H0= 17: 2:20.8 LAT=40.681N LON= 20.489E Z= 33KM MB=4.7														
GREECE-ALBANIA BORDER REGION														
MAR	22	BUB	PD	19	15	57				7	1.5	2.5		
*GS : H0= 19:10:27.6 LAT=70.738N LON= 14.722W Z= 22KM MB=5.0														
JAN MAYEN ISLAND REGION														
MAR	23	BUB	PKP	14	47	27.8				28	1.5	3.1		
		ZUL	PKP	14	47	28								
*GS : H0= 14:28:35.4 LAT=23.931S LON=179.779E Z=535KM MB=6.1														
SOUTH OF FIJI ISLANDS														
MAR	23	BUB	P	20	25	40.0				45	1.5	3.3		
		ZUL	P	20	25	42								
MAR	24	ZUL	PD	14	26	19				3	1.5	2.1		
		BUB	PD	14	26	20								
*GS : H0= 14:16: 3.1 LAT=27.727N LON= 86.110E Z= 33KM MB=5.7														
NEPAL														
MAR	25	BUB	PD	17	21	28.7		21	39.5	3	.2	1.6		
		ZUL	PD	17	21	30.2		21	40.5	2	.2	1.4		
MAR	27	BUB	PD	16	41	5.6				5	1.5	2.4		
		ZUL	P	16	41	7								
*GS : H0= 16:28:47.3 LAT=50.109N LON=179.657W Z= 37KM MB=5.6														
ANDREANOF ISLANDS, ALEUTIAN IS.														
MAR	29	BUB	PD	22	2	7.8				6	1.5	2.4		
		ZUL	P	22	2	9								
*GS : H0= 21:50:35.3 LAT=57.585N LON=153.922W Z= 44KM MB=5.7														
KODIAK ISLAND REGION														
APR	01	ZUL	PU	13	51	53.8		51	57.2	11	.5	2.3		
		BUB	PU	13	51	57.5		52	3.0	4	.5	1.9		
APR	02	LIN	P	16	26	32								
		ZUL	PU	16	26	42.8		26	57.2	2	.3	1.5		
		BUB	PU	16	26	43.5		26	58.9	2	.3	1.5		
APR	03	BUB	PU	6	21	41.7		21	52.0	2	.2	1.4		
		ZUL	PU	6	21	46.5		21	60.0	1	.2	1.1		
APR	05	BUB	P	12	27	2.5		27	9.0	2	.3	1.5		
		ZUL	P	12	27	9.5		27	20.2	2	.2	1.4		
		DIX	P	12	27	22.0		27	32.0					
APR	06	BUB	PD	2	5	39.5				6	1.5	2.4		
		ZUL	P	2	5	40								
*GS : H0= 1:53:47.3 LAT=55.102N LON=160.440W Z= 27KM MB=5.7														
ALASKA PENINSULA														
APR	06	BUB	PD	4	7	51.5				11	1.5	2.7		
		ZUL	P	4	7	53.7								

MO DY STA PRK H M S SRK M S AMP T LOG A/T RK
 APR 06*GS : H0= 3:56:1.8 LAT=55.120N LON=160.443W Z= 40KM MB=6.0

APR 06 EMO SP 19 31 21.0 31 26.0
 DIX P 19 31 26.0 31 30.0
 LIN P 19 31 42.0 31 59.5
 ZUL P 19 31 45.2 32 3.2 7 .2 1.9
 BUB PU 19 31 49.0 32 13.2 7 .2 1.9
 *SED : H0= 19:31:20.1 LAT=46N19.6 LCN= 7E15.2 Z= 10KM ML=2.4
 RMS= .89S ERH= 5.0KM ERZ= 3.2KM D3=118KM NO=14
 REGION SION,KT.VALAIS(CH)

APR 07 ZUL P 14 26 53 6 1.5 2.4
 BUB PD 14 26 54.7
 *GS : H0= 14:22:47.1 LAT=34.750N LON= 24.699E Z= 29KM MB=4.7
 CRETE

APR 09 BUB PD 13 23 19.9 9 1.5 2.6
 *GS : H0= 13:11:21.6 LAT=45.490N LON=148.292E Z=139KM MB=5.5
 KURIL ISLANDS

APR 09 BUB PU 16 38 57.7 39 7.8 1 .2 1.1
 ZUL PU 16 39 1.5 39 13.9 2 .2 1.4

APR 10 BUB PU 7 47 41.7 47 56.0 3 .2 1.6
 ZUL P 7 47 47.9 48 3.8 2 .2 1.4

APR 10 BUB PD 11 41 55.4 42 1.0 2 .3 1.5
 ZUL PD 11 42 2.4 42 11.0 4 .2 1.7

APR 10 ZUL PD 15 2 43.6 2 56.0 1 .2 1.1
 BUB PU 15 2 46.2 2 58.1 2 .2 1.4

APR 10 BUB PD 22 35 29.5 4 1.5 2.3
 ZUL P 22 35 30

APR 11 BUB P 14 28 53.5 29 5.2 7 .3 2.0
 ZUL P 14 28 56.7 29 10.0 2 .2 1.4

APR 11 BUB P 14 34 2.2 70 .2 2.9
 ZUL P 14 34 8
 LIN P 14 34 20 34 33.0

APR 11 ZUL PU 19 35 14.2 35 52.0 7 .3 2.0
 BUB PU 19 35 16.4 35 55.0 7 .3 2.0
 EMO SP 19 35 53.5 36 30.0
 *GS : H0= 19:34:34.4 LAT=44.932N LON= 8.246E Z= 33KM
 NORTHERN ITALY

APR 13 BUB PU 7 7 26 1 1.5 1.7

APR 13 BUB PD 7 7 56.5 4 1.5 2.3

APR 13 ZUL P 7 15 34
 BUB PU 7 15 35.4 1 1.5 1.7

APR 13 ZUL P 7 15 42
 BUB PD 7 15 44.1 5 1.5 2.4

MO DY STA PRK H M S SRK M S AMP T LOG A/T RK

APR 14 BUB PD 23 54 30.6 54 48.6 6 .2 1.9
 ZUL PD 23 54 31.7 54 49.5 7 .2 1.9

APR 15 ZUL P 21 50 2.3
 BUB PD 21 50 4.8 50 44.0 5 1.5 2.4
 *GS : H0= 21:49:13.6 LAT=44.532N LON= 9.850E Z= 33KM MB=4.5
 NORTHERN ITALY

APR 16 ZUL P 16 57 32.0 57 48.0 1 .2 1.1
 BUB PU 16 57 34.7 57 51.4 1 .2 1.1

APR 18 ZUL P 2 26 10
 BUB PD 2 26 13.2 5 1.5 2.4

APR 18 BUB PU 11 6 29.5 6 45.2 3 .2 1.6
 ZUL P 11 6 35.7 6 53.9 2 .2 1.4

APR 18 BUB PD 14 54 23.1 54 32.4 3 .2 1.6
 ZUL PD 14 54 23.8 54 33.2 2 .2 1.4

APR 19 BUB PD 13 6 8.2 6 18.0 5 .2 1.8
 ZUL PU 13 6 10.7 6 22.0 4 .2 1.7

APR 19 BUB PU 15 0 52.5 16 2.5 70 .2 2.9

APR 21 BUB PKP 1 13 16 2 1.5 2.0
 *GS : H0= 0:53:30.0 LAT=22.819S LON=171.691E Z= 33KM MB=5.3
 LOYALTY ISLANDS REGION

APR 22 BUB PU 3 24 34 2 1.5 2.0
 *GS : H0= 3:20:13.5 LAT=34.876N LON= 27.679E Z= 65KM MB=4.4
 EASTERN MEDITERRANEAN SEA

APR 22 LIN SP 4 50 37 50 41.8
 ZUL PU 4 50 51.7 51 5.5 1 .2 1.1
 BUB PU 4 50 53.1 51 7.5 2 .2 1.4
 *SED : H0= 4:50:33.4 LAT=46N50.7 LON= 9E28.6 Z= 13KM ML=1.4
 RMS= .17S ERH=10.0KM ERZ= 6.8KM D3=120KM NO= 7
 REGION CHUR,KT.GRAUBUENDEN(CH)

APR 22 BUB PU 11 30 23.1 30 32.7 2 .2 1.4
 ZUL PU 11 30 23.7 30 33.4 1 .2 1.1

APR 24 BUB PD 7 0 12 1 1.5 1.7

APR 24 BUB PU 10 28 35 5 1.5 2.4

APR 25 BUB PD 8 3 7.0 3 21.3 3 .2 1.6
 ZUL P 8 3 12 3 30.0

APR 25 BUB PD 8 53 17.0 53 25.9 4 .2 1.7
 ZUL PD 8 53 23.2 53 35.5 4 .2 1.7

APR 25 BUB PD 16 39 18.5 39 21.8 3 .6 1.8

APR 26 BAS P 7 21 16.0 21 24.0
 ZUL PU 7 21 18.2 21 24.2 50 .2 2.8

TABLE 2: SEISMIC BULLETIN 1974

SED

PAGE 44		TABLE 2: SEISMIC COLLECTION													
MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK	
APR	26	BUB	PU	7	21	22.0		21	31.9	70	.2	2.9			
		LIN	P	7	21	22.1		21	32.9						
		EMO	P	7	21	29.5									
		OIX	P	7	21	30		21	44.0						
		*SED	:	H0=	7:21:7.2		LAT=47N	6.9	LCN=	7E51.9	Z=	27KM	ML=2.7		
				RMS=	.42S		ERH=	6.3KM	ERZ=	6.2KM	D3=	90KM	NO=12		
				REGION HUTTWIL,KT.BERN(CH)											
APR	26	BAS	P	7	25	16.5		25	24.0						
		ZUL	PU	7	25	18.3		25	25.5	50	.2	2.8			
		BUB	PU	7	25	22.2		25	32.6	70	.2	2.9			
		LIN	P	7	25	22.6		25	33.0						
		EMO	P	7	25	29.3		25	45.0						
		OIX	P	7	25	30.0		25	43.0						
		*SED	:	H0=	7:25:7.9		LAT=47N	7.6	LCN=	7E51.4	Z=	33KM	ML=2.7		
				RMS=	.58S		ERH=	6.2KM	ERZ=	12.2KM	D3=	56KM	NO=15		
				REGION HUTTWIL,KT.BERN(CH)											
APR	27	BUB	PU	7	44	47				3	1.5	2.1			
		*GS	:	H0=	7:24:54.0		LAT=26.246S		LCN=175.912W		Z=	45KM	MB=6.1		
				SOUTH OF TONGA ISLANDS											
APR	29	BUB	PD	12	33	29.4		33	40.2	5	.2	1.8			
		ZUL	PD	12	33	34.2		33	47.6	4	.2	1.7			
APR	29	BUB	PU	20	9	59				4	1.5	2.3			
		*GS	:	H0=	20:4:39.7		LAT=30.529N		LCN=31.721E		Z=	33KM	MB=4.9		
				UNITED ARAB REPUBLIC											
APR	30	BUB	PKP	20	15	19				1	1.5	1.7			
		*GS	:	H0=	19:55:52.1		LAT=19.657S		LCN=169.212E		Z=	158KM	MB=5.0		
				NEW HEBRIDES ISLANDS											
MAY	02	BLA	P	18	2	40.7		2	48.0						
		BUB	PD	18	2	52.7		3	9.2	2	.2	1.4			
MAY	04	BUB	PU	0	20	31		21	19.0	5	.6	2.0			
MAY	04	BUB	PKP	13	5	56.2				71	1.5	3.5			
		*GS	:	H0=	12:47:28.3		LAT=13.881S		LCN=172.611E		Z=	602KM	MB=5.5		
				NEW HEBRIDES ISLANDS REGION											
MAY	05	BUB	PU	6	10	25.0				1	1.5	1.7			
		*GS	:	H0=	5:57:35.0		LAT=22.301N		LCN=121.490E		Z=	26KM	MB=5.5		
				TAIWAN REGION											
MAY	05	BUB	PKP	8	37	24.9				6	1.5	2.4			
		*GS	:	H0=	8:17:50.3		LAT=17.452S		LCN=167.907E		Z=	33KM	MB=5.1		
				NEW HEBRIDES ISLANDS											
MAY	05	BUB	PKP	11	46	57.0				6	1.5	2.4			
		*GS	:	H0=	11:28:28.6		LAT=13.998S		LCN=172.705E		Z=	597KM	MB=4.8		
				NEW HEBRIDES ISLANDS REGION											
MAY	05	BUB	PU	14	31	44				6	1.5	2.4			
		*GS	:	H0=	14:19:12.0		LAT=37.740N		LCN=141.707E		Z=	48KM	MB=5.6		
				NEAR EAST COAST OF HONSHU, JAPAN											

TABLE 2: SEISMIC BULLETIN 1974

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MO	DY	STA	PRK	H	M	S	SRK	H	S	AMP	T	LOG	A/T	RK
MAY	05	DIX	P	15	49	28.3								
		EMO	P	15	49	30.9		49	33.3					
		BLA	P	15	49	46.0		49	36.3					
		BUB	PD	15	49	55.2		50	1.2					
		*SED	:	H0=	15:49:23.7		LAT=46N	17.6	LON=	2	.3	1.5		
							RMS=	.19S	ERH=	4.5KM	ERZ=	7E21.6	Z=	7KM ML=2.0
												03=131KM	NO=	7
														REGION SION,KT.VALAIS(CH)
MAY	06	DIX	P	7	51	9.8								
		BUB	PD	7	51	17.7		52	17.0		7	.2	1.9	
		*GS	:	H0=	7:50:22.1		LAT=46.336N		LON=	13.403E		Z=	54KM	
														AUSTRIA
MAY	06	BUB	PKP	11	58	5					4	1.5	2.3	
		*GS	:	H0=	11:38:19.7		LAT=15.201S		LON=173.417W		Z=	13KM	MB=5.7	
														TONGA ISLANDS
MAY	06	BUB	PU	17	46	3.6		46	9.5		2	.3	1.5	
MAY	07	BUB	PKP	2	44	54					7	1.5	2.5	
		*GS	:	H0=	2:25:10.8		LAT=16.693S		LCN=177.342W		Z=	33KM	MB=5.5	
														FIJI ISLANDS REGION
MAY	07	BUB	PD	15	8	17.2		8	22.7		2	.5	1.6	
MAY	07	BUB	PU	15	55	36.6		55	45.0		3	.2	1.6	
MAY	08	BUB	PU	23	46	10					6	1.5	2.4	
		ZUL	P	23	46	11								
		*GS	:	H0=	23:33:25.2		LAT=34.522N		LON=138.740E		Z=	2KM	MB=6.0	
														NEAR S. COAST OF HONSHU, JAPAN
MAY	09	BUB	PKP	16	27	29					5	1.5	2.4	
		ZUL	PKP	16	27	30								
		*GS	:	H0=	16: 7:43.0		LAT=21.756S		LON=169.747E		Z=	35KM	MB=5.5	
														LOYALTY ISLANDS REGION
MAY	10	BUB	PKP	2	24	8					5	1.5	2.4	
		ZUL	PKP	2	24	9								
		*GS	:	H0=	2: 3:46.1		LAT=30.722S		LON=179.552W		Z=227KM	MB=5.3		
														KERMADEC ISLANDS REGION
MAY	10	BUB	PU	15	43	26.7		43	30.4		4	.2	1.7	
		ZUL	PU	15	43	29.4		43	34.9		2	.2	1.4	
		BLA	P	15	43	34.7		43	44.5					
MAY	10	BUB	PD	17	37	3.2		37	23.0		2	.3	1.5	
MAY	10	BUB	PD	19	36	47					14	1.5	2.8	
		ZUL	P	19	36	48								
		*GS	:	H0=	19:25:15.0		LAT=28.243N		LCN=104.015E		Z=	11KM	MB=6.2	
														SZECHWAN PROVINCE, CHINA
MAY	12	BUB	PU	0	24	52					4	1.5	2.3	
		ZUL	P	0	24	52								
		*GS	:	H0=	0:20:56.9		LAT=36.663N		LCN=	27.033E		Z=156KM	MB=4.5	
														DODECANESE ISLANDS

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
----	----	-----	-----	---	---	---	-----	---	---	-----	---	-----	-----	----

MAY 12	BUB	PU	19	48	25.8		48	34.2		70	.1	2.8		
	ZUL	PU	19	48	31.6		48	44.2		55	.1	2.7		
	BLA	P	19	48	36.5		48	54.3						
	LIN	P	19	48	38.4		48	55.8						
	DIX	P	19	48	55.6		49	34.5						
	EMO	P	19	48	56.4		49	34.0						

*GS : H0= 19:48:13.3 LAT=48.269N LON= 9.102E Z= 12KM

GERMANY

IO= V-VI (MSK) R= 140 KM

INTENS.(MSK): 577 MESSAGES FROM 128 LOCALITIES.

(SEE INTENSITY - MAP)

MAY 13	BUB	PU	17	48	35		4	1.5	2.3					
*GS			H0= 17:40:28.4	LAT=36.469N	LON= 70.912E	Z=208KM	MB=5.5							

HINDU KUSH REGION

MAY 15	BUB	PKP	11	48	54		6	1.5	2.4					
*GS			H0= 11:29:23.2	LAT=17.295S	LON=167.835E	Z= 18KM	MB=4.5							

NEW HEBRIDES ISLANDS

MAY 15	BUB	PU	19	11	52		18	1.5	2.9					
*GS			H0= 18:59:55.9	LAT=50.050N	LON=156.113E	Z= 56KM	MB=6.1							

KURIL ISLANDS

MAY 16	BUB	PU	3	11	12		1	1.5	1.7					
*GS			H0= 3: 2:57.3	LAT=49.743N	LON= 78.150E	Z= 0KM	MB=5.3							

EASTERN KAZAKH SSR

MAY 16	BUB	PD	16	1	9.3		1	23.9	2	.2	1.4			
ZUL	PD	16	1	11.4		1	26.2	1	.2	1.1				

MAY 16	BUB	PD	20	12	26		7	1.5	2.5					
ZUL	P	20	12	27										
*GS			H0= 20: 0: 1.5	LAT=27.158N	LON=140.067E	Z=471KM	MB=5.3							

BONIN ISLANDS REGION

MAY 17	BUB	PD	14	32	38		6	1.5	2.4					
ZUL	P	14	32	39										
*GS			H0= 14:27:32.0	LAT=64.667N	LON= 21.227W	Z= 33KM	MB=5.0							

ICELAND

MAY 17	ZUL	P	15	35	13									
BUB	PU	15	35	14		9	1.5	2.6						
*GS			H0= 15:22: 7.4	LAT=11.173S	LON= 75.077W	Z=111KM	MB=6.0							

PERU

MAY 17	BUB	PD	17	24	40		11	1.5	2.7					
ZUL	P	17	24	41										
*GS			H0= 17:11:50.8	LAT=25.141N	LON=125.555E	Z= 18KM	MB=5.8							

SOUTHWESTERN RYUKYU ISLANDS

MAY 18	LIN	SP	2	48	51.5		48	57.2						
ZUL	PU	2	49	5.5		49	16.5	2	.2	1.4				
BUB	PU	2	49	8.9		49	22.2	3	.2	1.6				
*SED			H0= 2:48:49.6	LAT=46N44.5	LON= 8E30.2	Z= 10KM	ML=1.5							

RMS= .27S ERH= 8.9KM ERZ=-0.0KM D3=110KM NO= 6

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
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REGION WASSEN, KT. URI (CH)

MAY 18	BLA	P	10	17	5.2		17	13.9						
	ZUL	PD	10	17	15		17	30.5		1	.2	1.1		
	BUB	PD	10	17	16.8		17	33.2		2	.2	1.4		

MAY 19	BLA	P	5	40	40.0		40	57.7						
	BUB	PU	5	40	47.2		40	56.5		15	.2	2.3		
	ZUL	PU	5	40	52.8		41	5.7		14	.2	2.2		
	LIN	P	5	41	1.4		41	21.9						

MAY 19	LIN	P	13	20	44.0									
	ZUL	PU	13	20	53.9					7	.2	1.9		
	BUB	PU	13	20	55.8					10	.2	2.1		
*GS			H0= 13:20:17.3	LAT=45.630N	LON= 10.275E	Z= 33KM								

NORTHERN ITALY

MAY 19	ZUL	P	22	5	14									
	BUB	PD	22	5	14.4					9	1.5	2.6		
*GS			H0= 22: 1: 9.4	LAT=35.486N	LON= 26.333E	Z= 83KM	MB=4.9							

CRETE

MAY 20	BUB	P	4	20	0		20	29.0		11	.2	2.1		
	ZUL	PU	4	20	3.3		20	35.0		5	.2	1.8		
	LIN	P	4	20	13.2									
*GS			H0= 4:19:25.2	LAT=49.832N	LON= 7.700E	Z= 25KM								

GERMANY

MAY 21	ZUL	PU	7	42	46.2		42	52.7		150	.4	3.4		
	BUB	PD	7	42	48.7		42	56.9		150	.4	3.4		
	LIN	SP	7	42	55.5		43	11.6						
*SED			H0= 7:42:37.0	LAT=47N35.4	LON= 7E44.8	Z= 24KM	ML=3.2							

RMS= .25S ERH= 7.7KM ERZ= 4.4KM D3= 50KM NO= 9

DINKELBERG (BRD)

IO= V (MSK) R= 70 KM

INTENS.(MSK): 215 MESSAGES FROM 127 LOCALITIES.

(SEE INTENSITY-MAP)

MAY 21	ZUL	PU	7	59	14.2		59	28.7		25	.4	2.6		
	BUB	PD	7	59	16.7		59	24.9		25	.4	2.6		
	LIN	SP	7	59	24.4		59	39.0						
*SED			H0= 7:59: 5.9	LAT=47N35.8	LON= 7E49.2	Z= 19KM	ML=2.4							

RMS= .09S ERH= 4.1KM ERZ= 2.2KM D3= 45KM NO= 7

DINKELBERG (BRD)

MAY 21	BUB	PD	9	31	57.3		32	5.6		1	.2	1.1		
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MAY 21	BLA	P	10	18	42.2		18	49.2						
	BUB	PU	10	18	42.8		18	52.7		4	.2	1.7		
	ZUL	PU	10	18	43.5		18	53.9		2	.2	1.4		

MAY 21	BLA	P	21	50	50.7		50	57.0						
	ZUL	PU	21	50	55.4		51	6.0		5	.2	1.8		
	BUB	PU	21	50	55.5		51	6.0		13	.2	2.2		

MAY 22	BLA	P	18	0	53.7		1	1.8						
	ZUL	PU	18	1	3.7		1	18.1		4	.2	1.7		
	BUB	PU	18	1	5.1		1	19.7		6	.2	1.9		

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
*SED : H0= 18:04:44.0 LAT=47N49.0 LCN= 6E56.1 Z= 8KM ML=2.0 RMS= .26S ERH= 7.7KM ERZ= 5.2KM D3=116KM NO= 8 ALSACE(F)														
MAY	22	BLA	P	21	40	19.7	40	23.2						
		ZUL	PU	21	40	24.2	40	29.9	1	.2	1.1			
		BUB	PU	21	40	26.3	40	33.7	1	.2	1.1			
*SED : H0= 21:40:15.2 LAT=47N30.3 LCN= 7E50.0 Z= 9KM ML= .7 RMS= .19S ERH= 8.3KM ERZ= 9.7KM D3= 42KM NO= 7 REGION GELTERKINDEN, KT. BASELLAND (CH)														
MAY	23	BUB	PU	19	53	17.7			11	1.5	2.7			
		ZUL	P	19	53	17.7								
*GS : H0= 19:51:30.0 LAT=43.377N LON= 17.067E Z= 33KM MB=4.7 YUGOSLAVIA														
MAY	25	EMO	P	10	51	38.9	51	39.6						
		DIX	P	10	51	43.4	51	48.2						
		BLA	PU	10	52	6.2	52	25.7						
*SED : H0= 10:51:41.3 LAT=46N 4.1 LCN= 6E56.0 Z= 10KM RMS= .59S ERH=14.5KM ERZ= 3.4KM D3= 37KM NO= 5 HTE.SAVOIE(F)														
MAY	25	BUB	PD	11	37	6.1	37	18.2	1	.2	1.1			
		ZUL	P	11	37	11.5	37	27.5	1	.2	1.1			
MAY	26	BUB	PKP	1	51	51.5			57	1.5	3.4			
*GS : H0= 1:32:11.2 LAT=17.699S LON=167.752E Z= 13KM MB=5.8 NEW HEBRIDES ISLANDS														
MAY	26	BUB	PKP	2	34	47.5			9	1.5	2.6			
*GS : H0= 2:15:26.4 LAT=17.768S LON=167.476E Z= 31KM MB=5.2 NEW HEBRIDES ISLANDS														
MAY	26	BUB	PKP	5	57	22.2			6	1.5	2.4			
*GS : H0= 5:37:43.4 LAT=17.631S LON=167.645E Z= 17KM MB=4.9 NEW HEBRIDES ISLANDS														
MAY	26	BUB	PKP	6	6	30.0			3	1.5	2.1			
*GS : H0= 5:47:36.9 LAT=20.755S LON=178.499W Z=565KM MB=5.7 FIJI ISLANDS REGION														
MAY	26	BUB	PU	6	8	6.2			11	1.5	2.7			
MAY	26	BUB	PKP	6	12	17.5			6	1.5	2.4			
*GS : H0= 5:52:40.2 LAT=17.321S LON=167.124E Z= 53KM MB=5.5 NEW HEBRIDES ISLANDS														
MAY	26	BUB	PKP	7	35	22.2			7	1.5	2.5			
*GS : H0= 7:15:44.4 LAT=17.673S LON=167.847E Z= 27KM MB=4.7 NEW HEBRIDES ISLANDS														
MAY	26	BUB	PKP	8	34	29.7			5	1.5	2.4			
*GS : H0= 8:14:50.0 LAT=17.724S LON=167.677E Z= 8KM MB=5.1 NEW HEBRIDES ISLANDS														
MAY	26	BUB	PKP	8	56	8.3			6	1.5	2.4			

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
MAY	26	*GS	:	H0=	8:36:28.4		LAT=17.663S	LON=167.647E	Z=	8KM	MB=4.9			
NEW HEBRIDES ISLANDS														
MAY	26	BUB	PD	11	22	19.7				6	1.5	2.4		
MAY	26	BUB	PKP	11	43	52.8				11	1.5	2.7		
*GS : H0= 11:24:14.0 LAT=17.722S LON=167.741E Z= 19KM MB=4.6 NEW HEBRIDES ISLANDS														
MAY	26	BUB	PU	13	10	16.5				3	1.5	2.1		
*GS : H0= 13: 6:53.3 LAT=37.518N LCN= 21.128E Z= 57KM MB=4.2 SOUTHERN GREECE														
MAY	26	DIX	P	14	11	39.7				11	41.2			
		EMO	P	14	11	42.8				11	46.1			
		LIN	P	14	12	1.4				12	12.7			
		BAS	P	14	12	03.7								
		BLA	P	14	12	4.2				12	22.7			
		ZUL	P	14	12	6.5				12	28.7	2	.2	1.4
		BUB	PD	14	12	12.4				12	37.4	9	.2	2.0
*SED : H0= 14:11:37.7 LAT=46N 1.4 LCN= 7E19.2 Z= 2KM ML=2.3 RMS= .58S ERH= 4.6KM ERZ=-0.0KM D3= 66KM NO=14 V.DE BARNES, KT. VALAIS (CH)														
MAY	26	LIN	P	15	13	27.2				13	38.5			
		ZUL	P	15	13	41.7				14	3.0	3	.2	1.6
		BUB	PD	15	13	43.6				14	4.8	5	.2	1.8
		BLA	P	15	13	51.1				14	14.7			
*SED : H0= 15:13:15.2 LAT=46N12.3 LCN= 9E40.4 Z= 10KM ML=2.1 RMS= .20S ERH=15.4KM ERZ=-0.0KM D3=190KM NO= 8 VALTELLINA (I)														
MAY	27	BUB	PU	4	53	19				3	1.5	2.1		
*GS : H0= 4:41:23.6 LAT=50.833N LON=157.349E Z= 47KM MB=5.6 KURIL ISLANDS														
MAY	27	BUB	PD	14	12	58.0				4	1.5	2.3		
*GS : H0= 14: 1:43.5 LAT=60.328N LON=146.016W Z= 21KM MB=5.5 SOUTHERN ALASKA														
MAY	28	BUB	PU	14	2	41.2				2	47.3	2	.4	1.5
		ZUL	PU	14	2	46.5				2	56.1	1	.2	1.1
		BLA	P	14	2	50				3	7.2			
MAY	29	LIN	P	13	27	8.1				27	11.1			
		ZUL	PU	13	27	18.7				27	32.5	4	.2	1.7
		BUB	PU	13	27	19.9				27	34.8	2	.3	1.5
MAY	30	BUB	P	13	37	1.6				37	10.2	3	.3	1.6
		ZUL	P	13	37	5.8				37	17.7	3	.2	1.6
		BLA	P	13	37	11.7				37	28.0			
MAY	31	BUB	PU	3	35	13.7				14	1.5	2.8		A
*GS : H0= 3:26:57.4 LAT=49.952N LCN= 78.844E Z= 0KM MB=5.9 EASTERN KAZAKH SSR														
MAY	31	BUB	PU	8	31	33.8				31	43.7	2	.2	1.4
		P	8	31	36.0					31	47.3			

TABLE 2: SEISMIC BULLETIN 1974

SED

PAGE 50		TABLE 2: SEISMIC											
MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG A/T	RK
MAY	31	BUB	PU	16	34	25.0		34	30.2	3	.2	1.6	
		ZUL	PU	16	34	30.7		34	39.7	2	.2	1.4	
		BLA	P	16	34	34.5		34	50.6				
JUN	01	BUB	PD	0	17	15.1		17	20.5	3	.2	1.6	
		ZUL	PU	0	17	18.2		17	25.2	4	.2	1.7	
		BLA	P	0	17	20.7		17	30.2				
JUN	04	BUB	PKP	4	33	26.5				36	1.5	3.2	
		*GS	: H0=	4:14:15.9	LAT=15.847S	LCN=175.101W	Z=276KM	MB=6.0					
TONGA ISLANDS													
JUN	05	LIN	PI	0	44	20		44	41.0				
		BUB	PU	0	44	25.4		44	47.4	3	.2	1.6	
		ZUL	PU	0	44	28.2		44	50.6	3	.2	1.6	
JUN	05	BUB	PU	10	4	59.9		5	10.7	2	.3	1.5	
		ZUL	P	10	5	0		5	11.7	3	.3	1.6	
JUN	06	BLA	PU	8	3	20.7		3	26.3	11	.2	2.1	
		ZUL	PU	8	3	23.7		3	31.2	13	.2	2.2	
		BUB	PU	8	3	24.2		3	32.2	15	.2	2.3	
JUN	06	BUB	PD	14	55	23.5		55	35.7	5	.3	1.9	
		ZUL	PD	14	55	26.4		55	41.5	5	.2	1.8	
		BLA	P	14	55	27.5		55	43.0				
JUN	06	BUB	PU	14	57	13.1		57	28.0	6	.2	1.9	
		ZUL	PU	14	57	13.5		57	28.6	4	.3	1.8	
		BLA	P	14	57	22.4		57	43.7				
JUN	06	DIX	P	17	38	37.5		38	40.5				
		BLA	P	17	38	58.5		39	15.2				
		ZUL	PU	17	38	59.7		39	18.7	2	.2	1.4	
		BUB	P	17	39	4.7		39	20.6	1	.2	1.1	
JUN	07	EMO	SPD	1	55	35		55	40.5				
		DIX	P	1	55	42		55	51.0				
		BLA	P	1	55	55.4		56	14.1				
		ZUL	PU	1	55	58.2		56	25.0				
		LIN	P	1	56	2		56	28.0				
		BUB	PU	1	56	7.4		56	35.0				
		*SED	: H0=	1:55:29.2	LAT=46N 9.7	LCN=	6E28.0	Z=	10KM	ML=3.0			
RMS= .92S ERH=16.5KM ERZ=14.8KM D3=165KM NO=11													
HTE.SAVOIE(F)													
JUN	07	BUB	PU	6	1	33.1		1	44.7	25	.2	2.5	
		ZUL	PU	6	1	38.7		1	53.0	7	.2	1.9	
		BLA	P	6	1	47.1		2	5.0				
JUN	07	LIN	P	13	39	38		40	6.0				
		ZUL	PD	13	39	47		40	19.0				
		BUB	PU	13	39	49.2		40	23.0	14	.8	2.5	
JUN	07	BUB	PU	16	0	7.0		0	21.9	3	.2	1.6	
		ZUL	PU	16	0	9.1		0	24.9	1	.2	1.1	

TABLE 2: SEISMIC BULLETIN 1974

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MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
JUN	07	BLA	PU	16	13	37.3								
		ZUL	PD	16	13	47.7		13	45.0					
		BUB	PU	16	13	49.2		14	3.0	3	.2	1.6		
								14	5.8	2	.2	1.4		
JUN	08	BUB	PD	11	58	40.4		58	49.2	4	.2	1.7		
		ZUL	P	11	58	46.2		58	60.0	2	.2	1.4		
JUN	08	BUB	PU	12	10	50.8		11	1.0	28	.2	2.5		
		ZUL	PU	12	10	56.0		11	9.0	20	.2	2.4		
		BLA	P	12	11	2.3		11	22.7					
		LIN	P	12	11	4		11	20.0					
JUN	08	BUB	PU	13	32	14.2		32	24.3	24	.2	2.5		
		ZUL	PU	13	32	19.2		32	32.0	18	.2	2.3		
		BLA	P	13	32	26.2		32	46.2					
		LIN	P	13	32	28		32	44.0					
JUN	09	EMO	P	0	18	15.1		18	20.0					
		DIX	P	0	18	20.5		18	30.0					
		BLA	P	0	18	37.5		18	60.0					
		ZUL	PU	0	18	41.5		19	9.1	10	.2	2.1		
		LIN	P	0	18	45		19	7.0					
		BUB	PU	0	18	45.8		19	14.5	12	.2	2.2		
*SED : H0= 0:18: 7.9 LAT=45N48.7 LCN= 6E33.1 Z= 10KM ML=2.9														
RMS= .37S ERH=10.3KM ERZ= 7.9KM D3=198KM NO=12														
HTE.SAVDIE(F)														
JUN	09	BUB	PD	5	38	27.4		38	36.2	4	.2	1.7		
		ZUL	PD	5	38	33.2		38	46.7	3	.2	1.6		
		BLA	P	5	38	42.4		39	.5					
JUN	09	LIN	SP	18	55	0		56	16.0					
		ZUL	P	18	55	49.2		56	15.0	4	.2	1.7		
		BUB	PD	18	55	51.8		56	19.0	2	.2	1.4		
		BLA	P	18	55	55.5		56	23.7					
JUN	10	BUB	PU	9	32	30.7		32	46.0	3	.2	1.6		
		ZUL	PD	9	32	35.7		32	54.0	3	.2	1.6		
JUN	10	BUB	PU	11	54	41				6	1.5	2.4		
JUN	10	ZUL	PD	15	35	2		35	14.7	2	.2	1.4		
		BUB	PD	15	35	2.7		35	15.2	1	.2	1.1		
JUN	10	BUB	PD	23	28	5.1		28	29.8	3	.2	1.6		
		ZUL	PD	23	28	6.6		28	29.9	3	.2	1.6		
		BLA	PU	23	28	16.7		28	44.2					
JUN	12	BUB	PU	16	28	4.5		28	10.7	3	.3	1.6		
		ZUL	PU	16	28	11.2		28	21.8	1	.2	1.1		
JUN	12	BUB	PU	16	36	57				23	1.5	3.0		
*GS : H0= 16:25:47.6 LAT=10.563N LCN= 63.382W Z= 34KM MB=5.7														
NEAR COAST OF VENEZUELA														
JUN	12	BUB	PD	18	0	17				9	1.5	2.6		
*GS : H0= 17:55: 8.7 LAT=64.771N LCN= 21.045W Z= 13KM MB=5.5														
ICELAND														

SED

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
JUN 12		BUB	PD	18	14	21.9		14	30.3	4	.2	1.7		
		ZUL	PD	18	14	28.4		14	40.8	5	.2	1.8		
		BLA	P	18	14	36.5		14	51.9					
JUN 13		DIX	P	0	15	48.5		15	53.0					
		EMO	P	0	15	50.0		15	56.5					
		BLA	P	0	16	04.3		16	19.2	1	.2	1.1		
		ZUL	P	0	16	6.2		16	25.7	1	.2	1.1		
		BUB	PD	0	16	12.0		16	33.9					
*SED : H0= 0:15:43.3 LAT=46N19.4 LCN= 7E29.8 Z= 10KM ML=1.5 RMS= .57S ERH=17.1KM ERZ=-0.0KM D3=127KM NO= 7 REGION SIERRE,KT.VALAIS(CH)														
JUN 14		LIN	P	10	44	36		44	41.0	4	.2	1.7		
		BUB	PU	10	44	47.2		45	1.0	5	.2	1.8		
		ZUL	PU	10	44	47.4		45	1.2					
JUN 14		BUB	PU	10	58	14.6		58	28.7	2	.2	1.4		
		ZUL	PU	10	58	18.4		58	35.0	1	.2	1.1		
JUN 14		ZUL	P	15	3	16.2		3	24.0	1	.2	1.1		
		BUB	PU	15	3	19.8		3	30.0	2	.3	1.5		
JUN 14		BLA	P	18	30	38		31	5.0	1	.2	1.1		
		ZUL	PU	18	30	44.7		31	21.0	3	.3	1.6		
		BUB	PU	18	30	51.7		31	26.5					
JUN 15		BUB	PU	2	49	50				2	1.5	2.0		
*GS : H0= 2:37:13.8 LAT=52.262N LCN=178.791E Z=157KM MB=5.7 RAT ISLANDS, ALEUTIAN ISLANDS														
JUN 15		BUB	PD	7	14	27				6	1.5	2.4		
*GS : H0= 7: 3: .2 LAT=28.273N LCN=103.954E Z= 39KM MB=5.5 SZECHWAN PROVINCE, CHINA														
JUN 15		EMO	P	17	41	38.0		41	40.0					
		DIX	P	17	41	46.5		41	52.0					
		BLA	P	17	42	8.6		42	31.7					
		LIN	P	17	42	9		42	33.0					
		ZUL	P	17	42	9.8		42	38.8	4	.2	1.7		
		BUB	PD	17	42	16.0		42	48.0	6	.3	1.9		
*SED : H0= 17:41:37.6 LAT=45N51.4 LCN= 6E53.3 Z= 10KM ML=2.7 RMS=1.10S ERH=10.9KM ERZ=-0.0KM D3= 0KM NO=-0 HTE. SAVOIE(F)														
JUN 16		BLA	P	10	59	35.2		59	45.6					
		ZUL	PU	10	59	37.9		59	54.6	3	.2	1.6		
		LIN	P	10	59	38		59	55.0					
		BUB	PU	10	59	41.4		60	2.7	3	.2	1.6		
JUN 16		BUB	P	23	3	11		3	22.7	2	.2	1.4		
		ZUL	P	23	3	13.7		3	30.6	2	.2	1.4		
		BLA	P	23	3	23		3	37.0					
JUN 17		ZUL	P	2	30	37								
		BUB	P	2	30	38				1	1.5	1.7		
*GS : H0= 2:18:29.5 LAT=48.229N LCN=154.351E Z= 33KM MB=5.1 KURIL ISLANDS														

SED

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
JUN 17		LIN	P	21	26	29		26	44.0					
		BUB	PD	21	26	35.9		26	56.1	6	.2	1.9		
		ZUL	PD	21	26	36.9		26	57.7	12	.2	2.2		
		BLA	P	21	26	50.2		27	14.3					
JUN 18		BUB	PU	8	29	16				3	1.5	2.1		
*GS : H0= 8:26:12.9 LAT=38.543N LCN= 20.416E Z= 33KM MB=4.8 GREECE														
JUN 18		BUB	PD	14	35	51.1		36	1.0	1	.2	1.1		
		ZUL	PD	14	35	55.7		36	9.7	2	.2	1.4		
		BLA	P	14	36	1.7		36	20.0					
JUN 18		BUB	PU	19	14	36.6		14	44.2	1	.2	1.1		
		ZUL	PU	19	14	42.2		14	54.1	2	.2	1.4		
JUN 19		BUB	P	14	59	15.2		59	22.7	4	.2	1.7		
		ZUL	PD	14	59	23.5		59	34.7	2	.2	1.4		
		BLA	P	14	59	36.7		59	51.7					
JUN 19		ZUL	PD	16	0	39.6		0	50.5	2	.2	1.4		
		BUB	PD	16	0	40.2		0	51.0	1	.2	1.1		
JUN 20		BUB	PU	9	30	19.2				28	1.5	3.1		
*GS : H0= 9:28:33.4 LAT=44.352N LCN= 17.714E Z= 33KM MB=5.1 YUGOSLAVIA														
JUN 20		BUB	P	17	9	44.0				4	.2	1.7		
		ZUL	P	17	9	44.7								
*GS : H0= 17: 8:27.3 LAT=45.965N LCN= 15.529E Z= 47KM MB=4.5 YUGOSLAVIA														
JUN 20		BUB	PU	22	27	46.7				18	1.5	2.9		
		ZUL	PU	22	27	48								
*GS : H0= 22:26:31.8 LAT=46.085N LCN= 15.479E Z= 33KM MB=4.4 YUGOSLAVIA														
JUN 22		ZUL	PD	7	43	30.1		43	41.3	1	.2	1.1		
		BUB	PD	7	43	32.1		43	43.9	1	.2	1.1		
JUN 22		BUB	PKP	8	31	51				5	1.5	2.4		
*GS : H0= 8:12:47.5 LAT=22.065S LCN=113.589W Z= 33KM MB=5.9 EASTER ISLAND REGION														
JUN 22		BUB	PD	23	33	6.7				5	1.5	2.4		
*GS : H0= 23:30:15.0 LAT=41.262N LCN= 23.032E Z= 33KM MB=5.1 GREECE-BULGARIA BORDER REGION														
JUN 23		BUB	PKP	6	39	55.7				5	1.5	2.4		
*GS : H0= 6:20:50.3 LAT= 7.007S LCN=155.843E Z= 70KM MB=5.5 SOLOMON ISLANDS														
JUN 23		BUB	PD	21	11	22				3	1.5	2.1		
*GS : H0= 21: 6:10.2 LAT=38.728N LCN= 39.179E Z= 33KM MB=4.5 TURKEY														
JUN 24		BUB	PD	11	57	56.7		58	13.5	2	.2	1.4		

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
JUN	24	ZUL	PD	11	58	2.7		58	22.3	2	.2	1.4		
JUN	24	LIN	P	17	16	47		16	51.0					Q
		ZUL	PD	17	17	2.3		17	16.0	2	.2	1.4		
		BUB	PD	17	17	3.7		17	18.7					
JUN	25	BUB	PD	5	13	48				4	1.5	2.3		
		*GS	: H0= 5: 0:58.9 LAT=15.484N LON= 95.381W Z= 25KM MB=5.3 NEAR COAST OF OAXACA, MEXICO											
JUN	25	BUB	P	11	26	14.3		26	21.8	2	.2	1.4		
		ZUL	PD	11	26	22.2		26	32.5	2	.2	1.4		
		BLA	P	11	26	33.5		26	49.2					
JUN	25	EMO	SP	12	9	50		10	1.5					
		BLA	P	12	9	52.8		10	2.4					
		ZUL	PD	12	10	1.5		10	17.6	4	.2	1.7		
		BUB	PD	12	10	6.2		10	24.7					
		*SED	: H0= 12: 9:39.6 LAT=46N53.4 LON= 6E55.6 Z= 7KM ML=1.9 RMS= .32S ERH= 7.1KM ERZ= 5.8KM D3=129KM NO= 9 REGION NEUCHATEL (CH)											
JUN	25	BUB	PU	16	56	14.5		56	20.7	4	.3	1.8		
		ZUL	PD	16	56	21.2		56	32.7	2	.3	1.5		
		BLA	P	16	56	26.0		56	39.7					
JUN	25	BUB	PD	22	28	40.8				14	1.5	2.8		
		*GS	: H0= 22:23:46.2 LAT=64.602N LON= 17.651W Z= 33KM MB=5.1 ICELAND											
JUN	27	BUB	PD	2	1	57.3				14	1.5	2.8		
JUN	27	BUB	PD	8	5	10				5	1.5	2.4		
JUN	27	BUB	PD	19	4	33.3				4	1.5	2.3		
		*GS	: H0= 18:52:36.2 LAT=10.501N LON= 92.785E Z= 33KM MB=5.3 ANDAMAN ISLANDS REGION											
JUN	28	BUB	PD	5	30	41.5				4	1.5	2.3		
		*GS	: H0= 5:29:39.5 LAT=51.581N LON= 7.789E Z= 1KM GERMANY											
JUN	28	BUB	PU	11	12	24.6				3	1.5	2.1		
		*GS	: H0= 11: 9:40.2 LAT=36.586N LON= 5.271E Z= 33KM MB=5.0 ALGERIA											
JUN	28	BUB	PKP	18	26	12.5				6	1.5	2.4		
		*GS	: H0= 18: 6:35.2 LAT=17.965S LON=167.838E Z= 26KM MB=5.1 NEW HEBRIDES ISLANDS											
JUN	28	BLA	PU	20	54	16.8		54	19.9					
		ZUL	PU	20	54	21.4		54	28.2	5	.2	1.8		
		BUB	PU	20	54	25.3		54	34.7	3	.2	1.6		
		*SED	: H0= 20:54:11.9 LAT=47N24.1 LON= 7E42.9 Z= 21KM ML=1.2 RMS= .21S ERH= 3.5KM ERZ= 3.9KM D3= 52KM NO= 9											

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
JUN	30	BUB	PKP	8	53	19.6				57	1.5	3.4		
		*GS	: H0= 8:33:46.5 LAT=17.988S LON=168.287E Z= 61KM MB=5.7 NEW HEBRIDES ISLANDS											
JUN	30	BUB	PU	12	21	22.4				21	25.0	4	.2	1.7
		ZUL	PU	12	21	24.6				21	28.7	6	.2	1.9
JUN	30	ZUL	PD	19	6	20.7								
		BUB	PD	19	6	23.2				4	1.5	2.3		
		*GS	: H0= 19: 5:23.8 LAT=44.145N LON= 10.678E Z= 33KM MB=4.3 NORTHERN ITALY											
JUL	01	BUB	PU	1	26	28.7				26	39.7	3	.2	1.6
		ZUL	PU	1	26	29.5				26	41.2	3	.2	1.6
		*GS	: H0= 1:26:38.0 LAT=49.417N LON= 6.033E Z= 0KM MB=4.3 GERMANY											
JUL	01	BUB	PD	1	27	17.5				18	1.5	2.9		
		ZUL	PD	1	27	19.4				36	1.5	3.2		
JUL	01	BUB	PU	16	49	36.5				49	42.1	2	.3	1.5
		ZUL	PU	16	49	42.6				49	53.7	1	.3	1.2
JUL	01	BUB	PD	23	22	37				6	1.5	2.4		
		*GS	: H0= 23:11:14.5 LAT=22.642S LON= 10.674W Z= 33KM MB=5.6 SOUTH ATLANTIC RIDGE											
JUL	02	ZUL	PD	23	40	58.2				41	35.0	3	.2	1.6
		BLA	P	23	41	1.2				41	35.2			
		BUB	PD	23	41	1.7				41	40.2	2	.2	1.4
		*LDG	: H0= 23:40:11.5 LAT=45.240N LON= 5.550E Z= 0KM ML=3.2 HTE.SAVOIE,F.											
JUL	02	BUB	PKP	23	46	23.7				45	1.5	3.3		
		*GS	: H0= 23:26:26.6 LAT=29.082S LON=175.954W Z= 33KM MB=6.8 KERMADEC ISLANDS REGION											
JUL	03	BUB	PD	13	26	40.7				26	43.7	3	.2	1.6
		ZUL	PD	13	26	41.3				26	45.2	3	.2	1.6
JUL	03	BUB	PD	18	52	3.0				52	12.2	1	.2	1.1
		ZUL	PD	18	52	9.2				52	21.9	2	.2	1.4
JUL	03	ZUL	PKP	23	45	5				23	1.5	3.0		
		*GS	: H0= 23:25: 9.3 LAT=29.122S LON=176.110W Z= 33KM MB=6.2 KERMADEC ISLANDS REGION											
JUL	03	BLA	PD	23	57	42.2				57	48.1	1	.2	1.1
		BUB	PD	23	57	44.6				57	52.6	1	.2	1.1
JUL	04	ZUL	PU	19	40	20.5				28	1.5	3.1		
		*GS	: H0= 19:30:42.1 LAT=45.136N LON= 94.034E Z= 33KM MB=6.1 MONGOLIA											
JUL	05	BUB	PD	14	47	7.7				47	14.9	2	.3	1.5
		ZUL	PU	14	47	13.2				47	25.5	4	.2	1.7

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MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG A/T	RK
JUL	05	BLA	P	14	47	17.5		47	33.5				
JUL	05	DIX	P	19	6	28.2		6	32.5				
		ZUL	PD	19	6	48.1		7	7.2				
		BLA	P	19	6	49.0		7	5.4				
		BUB	PD	19	6	53.4		7	15.2	3	.2	1.6	
*SED : H0= 19: 6:22.1 LAT=46N 4.2 LON= 7E50.4 Z= 10KM ML=1.8													
RMS= .72S ERH=10.2KM ERZ=12.1KM D3=157KM NO= 9													
REGION ZERMATT,KT.VALAIS(CH)													
JUL	08	ZUL	PU	5	58	11.3				5	1.5	2.4	
*GS : H0= 5:45:37.0 LAT=36.414N LON=141.104E Z= 35KM MB=6.0													
NEAR EAST COAST OF HONSHU, JAPAN													
JUL	09	BUB	P	2	36	28				6	1.5	2.4	
		ZUL	P	2	36	28							
*GS : H0= 2:32:17.6 LAT=36.652N LON= 28.449E Z= 69KM MB=5.0													
DODECANESE ISLANDS													
JUL	09	ZUL	PD	8	57	15.6		57	26.2	2	.2	1.4	
		BUB	PD	8	57	17.3		57	29.7	1	.2	1.1	
JUL	09	BUB	PD	10	17	28.7		17	43.3	3	.2	1.6	
		ZUL	PD	10	17	33.3		17	50.0	3	.2	1.6	
JUL	09	BLA	P	14	46	55.0		47	1.0				
		ZUL	PU	14	47	5.9		47	17.7	3	.5	1.7	
		BUB	PU	14	47	7.8		47	19.1	2	.4	1.5	
JUL	09	ZUL	PU	16	31	59				3	1.5	2.1	
*GS : H0= 16:20:29.5 LAT=28.228N LON=103.886E Z= 33KM MB=5.2													
SZECHWAN PROVINCE, CHINA													
JUL	10	ZUL	PU	3	5	13				4	1.5	2.3	A
*GS : H0= 2:56:57.5 LAT=49.789N LON= 78.139E Z= 0KM MB=5.3													
EASTERN KAZAKH SSR													
JUL	10	EMO	SP	4	4	28.7		4	32.2				
		DIX	P	4	4	36.0		4	43.5				
		BLA	PD	4	5	0.4		5	24.0				
		ZUL	PU	4	5	4.3		5	33.0	1	.2	1.1	
		BUB	PU	4	5	10.2		5	41.0	1	.2	1.1	
*SED : H0= 4: 4:26.3 LAT=45N40.9 LON= 6E57.8 Z= 10KM ML=1.9													
RMS=1.36S ERH= 6.4KM ERZ=-0.0KM D3= 56KM NO= 9													
HTE.SAVOIE(F)													
JUL	10	EMO	SP	8	47	39.0		47	43.5				
		DIX	P	8	47	49		47	56.0				
*SED : H0= 8:47:39.4 LAT=45N41.6 LON= 6E57.5 Z= 10KM													
RMS= .35S ERH= 3.0KM ERZ= 1.4KM D3= 45KM NO= 6													
HTE.SAVOIE(F)													
JUL	10	LIN	P	8	49	57		49	60.0				
		ZUL	PU	8	50	10.0		50	19.7	2	.2	1.4	
		BUB	PU	8	50	11.7		50	23.2	4	.2	1.7	
		BLA	P	8	50	17		50	32.0				
*SED : H0= 8:49:55.0 LAT=46N54.0 LON= 9E 1.9 Z= 13KM ML=1.5													
RMS= .62S ERH= 6.1KM ERZ= 6.2KM D3= 81KM NO= 9													

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
JUL	10	BUB	PU	9	56	17.0	REGION LINTHAL, KT. GLARUS (CH)							
							56	18.8		70	.2	2.9		
JUL	10	ZUL	P	15	48	36.4		49	19.0	1	1.5	1.7		
JUL	10	ZUL	PU	16	12	23								
		*GS	:	H0=	16:	0:	.1	LAT=37.068N LON=116.032W		6	1.5	2.4	A	
				SOUTHERN NEVADA						Z=	0KM	MB=5.7		
JUL	11	ZUL	PU	18	1	41								
		*GS	:	H0=	17:56:	18.5	LAT=71.570N LON=		6	1.5	2.4			
				JAN MAYEN ISLAND REGION					4.128W	Z=	33KM	MB=5.0		
JUL	12	BUB	P	11	18	48.9		18	57.0					
		ZUL	P	11	18	52		19	4.0	2	.2	1.4		
JUL	12	BUB	P	16	49	57.7		50	13.5					
		ZUL	P	16	50	3.0		50	20.0	2	.2	1.4		
JUL	13	BLA	P	1	30	40								
		ZUL	PD	1	30	42.5								
		*GS	:	H0=	1:18:	22.8	LAT= 7.747N LON=		23	1.5	3.0			
				PANAMA-COLOMBIA BORDER REGION					77.688W	Z=	12KM	MB=6.4		
JUL	13	BLA	P	2	32	36								
		ZUL	P	2	32	39								
		*GS	:	H0=	2:20:	22.8	LAT= 7.409N LON=		4	1.5	2.3			
				PANAMA-COLOMBIA BORDER REGION					77.662W	Z=	45KM	MB=5.5		
JUL	13	ZUL	P	16	0	11								
		*GS	:	H0=	15:57:	25.2	LAT=35.969N LON=		1	1.5	1.7			
				ALGERIA					4.785E	Z=	37KM	MB=4.8		
JUL	13	ZUL	PU	23	21	2								
		*GS	:	H0=	23:	8:	41.9	LAT= 7.146N LON=		2	1.5	2.0		
				PANAMA-COLOMBIA BORDER REGION					77.732W	Z=	23KM	MB=5.3		
JUL	14	ZUL	P	2	0	59								
		*GS	:	H0=	1:48:	43.6	LAT= 7.809N LON=		3	1.5	2.1			
				PANAMA-COLOMBIA BORDER REGION					77.637W	Z=	26KM	MB=5.2		
JUL	14	ZUL	PU	2	26	9								
		*GS	:	H0=	2:13:	50.4	LAT= 7.745N LON=		4	1.5	2.3			
				PANAMA-COLOMBIA BORDER REGION					77.612W	Z=	15KM	MB=5.9		
JUL	16	BUB	P	16	4	2.5		4	18.0	2	.2	1.4		
		ZUL	P	16	4	7.5		4	24.0	1	.2	1.1		
JUL	17	ZUL	P	5	11	16								
		*GS	:	H0=	5:	9:	23.0	LAT=45.750N LON=		1	1.5	1.7		
				RUMANIA					26.531E	Z=	145KM	MB=5.1		
JUL	17	BUB	P	13	24	18.2		24	34.0					
		ZUL	P	13	24	27.3		24	42.0	2	.2	1.4		
JUL	18	ZUL	PKP	11	24	25								
		*GS	:	H0=	11:	4:	43.2	LAT=15.218S LON=173.592W		14	1.5	2.8		
				TONGA ISLANDS						Z=	33KM	MB=5.9		

SED

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
JUL 28	ZUL	P	16	46	9					1	1.5	1.7		
*GS : H0= 16:33:55.6 LAT=46.247N LON=153.228E Z= 49KM MB=4.9														
KURIL ISLANDS														
JUL 29	ZUL	PD	3	27	32.5					9	1.5	2.6		
*GS : H0= 3:15:15.7 LAT=46.200N LON=153.100E Z= 38KM														
KURIL ISLANDS														
JUL 29	DIX	P	4	31	6.3		31	8.7						
	EMO	P	4	31	11.0		31	17.4						
	BLA	P	4	31	26.5		31	42.5						
	ZUL	P	4	31	28.0		31	47.0	4	.1	1.6			
	BUB	P	4	31	33.3		31	56.0	4	.1	1.6			
*SED : H0= 4:31: 3.3 LAT=46N12.3 LCN= 7E28.8 Z= 10KM ML=1.9														
RMS= .78S ERH= 7.2KM ERZ=-0.0KM D3=140KM NO= 8														
REGION SIERRE,KT.VALAIS(CH)														
JUL 29	ZUL	PD	7	28	43.0					14	1.5	2.8		
*GS : H0= 7:16:26.1 LAT=46.122N LON=153.092E Z= 33KM MB=5.9														
KURIL ISLANDS														
JUL 29	BUB	P	11	2	33		2	53.0						
	ZUL	P	11	2	37		3	2.0	2	.2	1.4			
JUL 30	ZUL	P	5	20	42					45	1.5	3.3		
*GS : H0= 5:12:40.6 LAT=36.353N LON= 70.763E Z=211KM MB=6.5														
HINDU KUSH REGION														
JUL 30	ZUL	P	22	52	0					2	1.5	2.0		
*GS : H0= 22:39:44.5 LAT=46.222N LON=153.174E Z= 42KM MB=5.0														
KURIL ISLANDS														
JUL 31	ZUL	P	10	34	11.5		34	23.0	2	.2	1.4			
	BUB	P	10	34	15		34	26.0						
JUL 31	BUB	P	16	2	46		2	56.0						
	ZUL	P	16	2	48		2	57.0	2	.2	1.4			
AUG 01	ZUL	PU	6	7	19					3	1.5	2.1		
*GS : H0= 5:55:38.2 LAT=56.670N LON=152.105W Z= 33KM MB=5.7														
KODIAK ISLAND REGION														
AUG 01	ZUL	PU	9	47	15					3	1.5	2.1		
*GS : H0= 9:36:27.0 LAT=16.652S LCN= 28.004E Z= 14KM MB=5.1														
ZAMBIA														
AUG 01	ZUL	P	11	9	4.5		9	18.5	2	.2	1.4			
	BUB	P	11	9	5.5		9	21.0						
AUG 01	ZUL	P	22	51	23					1	1.5	1.7		
*GS : H0= 22:39:21.0 LAT=49.756N LON=155.967E Z= 41KM MB=5.3														
KURIL ISLANDS														
AUG 02	BUB	P	2	50	48.0		50	56.0	4	.2	1.7			
	ZUL	P	2	50	48.7		50	56.5	4	.2	1.7			

SED

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
AUG 02	LIN	SP	10	59	10									
	ZUL	PD	10	59	7.4		59	23.0						
	BUB	PD	10	59	7.7		59	30.0	10	.4	2.2			
	BLA	P	10	59	17.0		59	31.0	9	.4	2.2			
	EMO	SP	10	59	21.8		59	42.3						
*SED : H0= 10:58:38.1 LAT=46N 4.1 LCN= 9E45.3 Z= 10KM ML=2.8														
RMS=1.18S ERH=46.6KM ERZ=14.2KM D3=207KM NO=12														
VALTELLINA(I)														
AUG 02	LIN	P	11	5	36.5		5	37.7						
	BUB	PD	11	5	41.8		5	54.3	2	.2	1.4			
	ZUL	PD	11	5	42.2		5	54.2	2	.2	1.4			
AUG 02	BUB	P	14	10	24.4		10	31.2	4	.2	1.7			
	ZUL	PU	14	10	31.0		10	42.9	2	.2	1.4			
AUG 03	BUB	PD	2	31	37.3		31	42.2	45	.2	2.7			
	ZUL	PD	2	31	42.2		31	49.0	32	.2	2.6			
	LIN	P	2	31	49.3		32	1.6						
	BLA	P	2	31	50.5		32	4.6						
*KA : H0= 2:31:44.1 LAT=47.890N LON= 8.910E Z= 19KM ML=2.3														
STOCKACH,D.														
AUG 03	ZUL	PD	18	29	12					4	1.5	2.3		
*GS : H0= 18:16:34.0 LAT=35.999N LON=139.819E Z= 58KM MB=5.6														
HONSHU, JAPAN														
AUG 04	BUB	PD	8	13	15.7		13	28.2	3	.2	1.6			
	ZUL	PD	8	13	18.2		13	32.3	1	.2	1.1			
AUG 04	BUB	PD	10	18	41.2		18	48.7	32	.2	2.6			
	ZUL	P	10	18	43.4		18	53.5	40	.2	2.7			
	LIN	SP	10	18	43.5		18	53.2						
	BLA	P	10	18	53.7		19	9.7						
	EMO	P	10	19	10.5		19	38.3						
*SED : H0= 10:18:30.6 LAT=47N36.8 LON= 9E22.8 Z= 7KM ML=2.4														
RMS= .58S ERH= 3.5KM ERZ= 9.7KM D3= 78KM NO=14														
REGION ROMANSHORN,KT.THURGAU(CH)														
AUG 04	LIN	P	10	21	31.9		21	37.7						
	ZUL	PU	10	21	44.2		21	59.0	35	.2	2.6			
	BUB	PU	10	21	48.2		22	4.8	15	.2	2.3			
	EMO	P	10	21	48.8		22	9.8						
	BLA	P	10	21	50.0		22	5.1						
*SED : H0= 10:21:26.8 LAT=46N32.0 LON= 8E36.2 Z= 6KM ML=2.6														
RMS= .79S ERH= 3.6KM ERZ= 5.9KM D3= 88KM NO=21														
REGION GOTTHARD,KT.TICINO(CH)														
AUG 04	BUB	PU	10	54	59.3		55	6.7	2	.2	1.4			
	ZUL	PU	10	55	1.6		55	11.1	2	.2	1.4			
AUG 04	ZUL	PD	15	11	55					14	1.5	2.8		
*GS : H0= 15: 6:17.1 LAT=42.335N LON= 45.932E Z= 33KM MB=5.4														
EASTERN CAUCASUS														
AUG 05	DIX	P	9	18	52.0		18	59.0						
	EMO	P	9	18	53.3		19	1.0						

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MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
AUG 05	ZUL	P	9	19	0		19	16.6		4	.2	1.7		
	BUB	PD	9	19	6.7		19	23.7		4	.2	1.7		
AUG 05	EMO	P	10	56	24.4		56	30.8						
	DIX	P	10	56	28.8		56	33.0		2	.2	1.4		
	ZUL	PD	10	56	32.0		56	47.5		2	.2	1.4		
	BUB	PD	10	56	37.8		56	54.2						
AUG 05	ZUL	PD	13	27	14.5					9	1.5	2.6		
	*GS		H0= 13:19:39.5							53.548E		Z= 11KM	MB=5.3	
			LAT=27.979N LON= SOUTHERN IRAN											
AUG 05	DIX	SP	17	38	4.5		38	10.5						
	EMO	P	17	38	6.0									
	ZUL	PD	17	38	13.5		38	28.7		3	.2	1.6		
	BUB	PD	17	38	19.0		38	36.1		3	.2	1.6		
	*SED		H0= 17:37:53.3							7E38.5		Z= 10KM	ML=1.8	
			RMS= .49S							ERH=11.5KM		ERZ= 6.8KM	D3= 74KM	NO=11
			REGION KANDERSTEG,KT.BERN(CH)											
AUG 05	DIX	P	18	38	15.0		38	40.5						
	EMO	P	18	38	16.5									
	ZUL	P	18	38	35.7		39	12.0						
	BUB	P	18	38	39.9		39	19.0						
AUG 06	ZUL	PD	15	16	58.2		17	12.9		1	.2	1.1		
	BUB	PD	15	17	1.0		17	17.6		1	.2	1.1		
AUG 06	ZUL	PU	17	1	17.2					7	1.5	2.5		
	*GS		H0= 16:49:22.2									Z= 166KM	MB=5.2	
			LAT=46.760N LON=150.420E KURIL ISLANDS											
AUG 06	LIN	SP	18	8	11.2		8	17.4						
	ZUL	PD	18	8	17.2		8	30.8		4	.2	1.7		
	BUB	PU	18	8	18.7		8	32.9		4	.2	1.7		
	*SED		H0= 18: 7:56.2							9E28.0		Z= 8KM	ML=1.9	
			RMS= .22S							ERH= 3.9KM		ERZ= 7.9KM	D3= 87KM	NO= 6
			REGION THUSIS,KT.GRAUBUENDEN(CH)											
AUG 06	ZUL	PKP	18	58	0.0					3	1.5	2.1		
	*GS		H0= 18:38:13.1									Z= 48KM	MB=5.7	
			LAT=21.758S LON=175.161W TONGA ISLANDS											
AUG 06	ZUL	PD	18	58	24.0					6	1.5	2.4		
AUG 07	BUB	P	15	40	27.9		40	34.9		2	.2	1.4		
	ZUL	PD	15	40	35.0		40	47.5		2	.3	1.5		
AUG 08	ZUL	PD	1	30	45.0					3	1.5	2.1		
	*GS		H0= 1:25:15.8							6.194E		Z= 33KM	MB=5.0	
			LAT=73.200N LON= GREENLAND SEA											
AUG 08	ZUL	PU	7	47	10.2		47	23.9		2	.2	1.4		
	BUB	PU	7	47	11.7		47	26.2		4	.2	1.7		
AUG 08	ZUL	P	19	10	27					11	1.5	2.7		
	*GS		H0= 19: 5: .9							5.861E		Z= 33KM	MB=4.8	
			LAT=73.173N LON= GREENLAND SEA											

TABLE 2: SEISMIC BULLETIN 1974

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
AUG 08	ZUL	P	19	29	35									
	*GS		H0= 19:16:45.9							7	1.5	2.5		
			LAT=24.572N LON=122.687E Z= 32KM MB=5.4 TAIWAN REGION											
AUG 08	ZUL	P	23	30	12.0									
	*GS		H0= 23:24:42.4							6	1.5	2.4		
			LAT=73.395N LON= 6.492E Z= 33KM MB=4.7 GREENLAND SEA											
AUG 09	BUB	PD	21	56	26.5		56	34.0		3	.2	1.6		
	ZUL	PD	21	56	28.6		56	38.0		4	.2	1.7		
	*SED		H0= 21:56:15.8							9E21.7		Z= 10KM	ML=1.4	
			RMS= .18S							ERH= 2.6KM		ERZ= -0.0KM	D3= 88KM	NO= 8
			REGION ROMANSHORN,KT.THURGAU(CH)											
AUG 09	BUB	PD	23	47	47.3		47	54.8		3	.2	1.6		
	ZUL	PD	23	47	49.5		47	58.9		4	.2	1.7		
	*KA		H0= 23:47: 4.1							9.390E		Z= 10KM	ML=1.6	
			LAT=47.590N LON= BODENSEE											
AUG 10	BUB	PD	1	44	17.6		44	26.0		12	.2	2.2		
	ZUL	PD	1	44	23.5		44	36.8		16	.2	2.3		
AUG 10	ZUL	PKP	10	6	23.5					4	1.5	2.3		
	*GS		H0= 9:47:39.2									Z= 595KM	MB=5.1	
			LAT=18.539S LON=179.469W FIJI ISLANDS REGION											
AUG 10	ZUL	PKP	11	41	31.5					7	1.5	2.5		
	*GS		H0= 11:22:26.4									Z= 602KM	MB=5.5	
			LAT=21.385S LON=179.158W FIJI ISLANDS REGION											
AUG 10	ZUL	PD	12	52	39.7					1	1.5	1.7		
	*GS		H0= 12:49:38.0							5.210W		Z= 10KM	MB=4.3	
			LAT=57.147N LON= UNITED KINGDOM											
AUG 10	ZUL	PU	12	55	23.0					4	1.5	2.3		
AUG 11	ZUL	PU	1	22	26.5					23	1.5	3.0		
	*GS		H0= 1:13:55.5							73.830E		Z= 9KM	MB=6.4	
			LAT=39.457N LON= TADZHIK-SINKIANG BORDER REGION											
AUG 11	BUB	PD	3	53	14.2		53	22.5		7	.2	1.9		
	ZUL	PD	3	53	19.8		53	32.0		15	.1	2.1		
AUG 11	ZUL	P	5	21	1.5					6	1.5	2.4		
	*GS		H0= 5:12:33.3							73.784E		Z= 33KM	MB=5.4	
			LAT=39.324N LON= TADZHIK-SINKIANG BORDER REGION											
AUG 11	ZUL	PU	5	32	20.6					6	1.5	2.4		
	*GS		H0= 5:23:52.5							73.773E		Z= 27KM	MB=5.6	
			LAT=39.415N LON= TADZHIK-SINKIANG BORDER REGION											
AUG 11	ZUL	PU	7	10	35.5					3	1.5	2.1		
	*GS		H0= 7: 2: 8.5							73.854E		Z= 33KM	MB=5.2	
			LAT=39.351N LON= TADZHIK-SINKIANG BORDER REGION											
AUG 11	ZUL	PU	20	13	56.8					6	1.5	2.4		
	*GS		H0= 20: 5:30.1							73.652E		Z= 33KM	MB=5.8	
			LAT=39.471N LON= TADZHIK-SINKIANG BORDER REGION											

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
AUG 11	ZUL	PD	21	30	4.5					14	1.5	2.8		
*GS : H0= 21:21:33.8 LAT=39.469N LON= 73.629E Z= 9KM MB=5.9 TADZHIK-SINKIANG BORDER REGION														
AUG 12	ZUL	PKP	3	12	22.0					6	1.5	2.4		
*GS : H0= 2:52:42.4 LAT=15.982S LON=179.405W Z= 70KM MB=5.7 FIJI ISLANDS REGION														
AUG 13	ZUL	PU	3	58	31.5					9	1.5	2.6		
*GS : H0= 3:46:20.3 LAT=51.525N LON=178.112W Z= 52KM MB=5.8 ANDREANOF ISLANDS, ALEUTIAN IS.														
AUG 13	ZUL	PD	10	58	2.4		58	14.5		1	.2	1.1		
	BUB	PD	10	58	4.8		58	20.0		2	.2	1.4		
AUG 13	ZUL	PKP	13	12	25.5					7	1.5	2.5		
*GS : H0= 12:52:47.3 LAT=15.823S LON=179.483W Z= 55KM MB=5.4 FIJI ISLANDS REGION														
AUG 13	ZUL	PD	15	5	36.0					9	1.5	2.6		
*GS : H0= 14:45:42.0 LAT=55.456S LON=146.261E Z= 33KM MB=5.6 WEST OF MACQUARIE ISLAND														
AUG 13	ZUL	PD	16	15	3.4		15	16.9		4	.2	1.7		
	BUB	PD	16	15	5.9		15	20.2		2	.2	1.4		
AUG 13	ZUL	PD	17	54	44.4		54	52.0		1	.2	1.1		
	BUB	PD	17	54	45.0		54	52.6		1	.2	1.1		
AUG 14	LIN	P	1	39	43.5		39	47.1						
	ZUL	PU	1	39	54.5		40	6.1		8	.2	2.0		
	BUB	PU	1	39	57.8		40	9.1		9	.2	2.0		
*SED : H0= 1:39:39.2 LAT=46N55.6 LON= 9E17.7 Z= 9KM ML=1.9 RMS= .49S ERH= 3.8KM ERZ= 6.9KM D3= 58KM NO=12 P.SARDONA,KT.GLARUS/ST.GALLEN(CH)														
AUG 14	ZUL	PD	5	47	5.2					4	1.5	2.3		
*GS : H0= 5:34:54.4 LAT=51.561N LON=178.145W Z= 56KM MB=5.7 ANDREANOF ISLANDS, ALEUTIAN IS.														
AUG 14	BUB	PD	10	0	24.4		0	36.2		1	.2	1.1		
	ZUL	PD	10	0	25.3		0	37.5		1	.2	1.1		
AUG 14	BUB	PD	11	5	58.4		6	10.7		2	.2	1.4		
	ZUL	PD	11	6	4.0		6	17.7		3	.2	1.6		
AUG 14	BUB	PD	14	1	21.6		1	33.0		6	.3	1.9		
	ZUL	PD	14	1	25.1		1	38.5		2	.2	1.4		
AUG 14	ZUL	PD	15	7	26.3					3	1.5	2.1		A
*GS : H0= 14:59:58.3 LAT=68.913N LON= 75.899E Z= 0KM MB=5.5 WESTERN SIBERIA														
AUG 14	ZUL	PU	16	9	5.0					3	1.5	2.1		
*GS : H0= 16: 5:19.4 LAT=35.458N LON= 23.067E Z= 60KM MB=4.2 CRETE														

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
AUG 14	BUB	PD	17	30	11.7									
	ZUL	PD	17	30	16.8					30	27.0	2	.3	1.5
										30	35.6	1	.2	1.1
AUG 15	DIX	P	17	16	23.3					16	26.0			
	EMO	P	17	16	25.7					16	31.5			
	LIN	P	17	16	30.0					16	46.0			
	BAS	P	17	16	40.5					16	57.8			
	ZUL	PD	17	16	40.7					16	58.2	22	.3	2.5
	BUB	PU	17	16	44.6					17	6.5	30	.3	2.6
*SED : H0= 17:16:15.8 LAT=46N12.7 LON= 7E32.8 Z= 7KM ML=3.1 RMS= .45S ERH= 3.6KM ERZ= 3.3KM D3= 49KM NO=16 REGION SIERRE,KT.VALAIS(CH) IO= III-IV (MSK) R= 20 KM INTENS.(MSK): ADELBODEN III-IV, LES DIABLERETS III-IV MONTANA/CRANS III-IV, LEUKERBAD III ZWEISIMMEN III, GSTAAD II														
AUG 16	ZUL	PD	9	53	43.6					5	1.5	2.4		
*GS : H0= 9:41:31.7 LAT=51.498N LON=177.828W Z= 46KM MB=5.7 ANDREANOF ISLANDS, ALEUTIAN IS.														
AUG 19	BUB	PD	10	51	16.9		51	23.0		2	.5	1.6		
	ZUL	P	10	51	23.8		51	33.8		2	.3	1.5		
AUG 19	ZUL	PU	12	2	3.3		2	10.1		2	.2	1.4		
	BUB	PU	12	2	7.2		2	16.3		1	.2	1.1		
AUG 19	ZUL	PD	12	21	1.4		21	13.5		2	.2	1.4		
	BUB	PD	12	21	3.7		21	16.3		2	.2	1.4		
AUG 19	DIX	P	15	46	0.0		46	1.5						
	EMO	P	15	46	1.0		46	4.0						Q
AUG 20	BUB	PU	11	8	37.6		8	45.8		1	.2	1.1		
	ZUL	PD	11	8	38.6		8	48.2		2	.2	1.4		
AUG 20	ZUL	PD	20	57	5.5					7	1.5	2.5		
*GS : H0= 20:45: 1.4 LAT=52.243N LON=174.972E Z= 58KM MB=5.6 RAT ISLANDS, ALEUTIAN ISLANDS														
AUG 21	BUB	PD	11	12	20		13	6.3		2	.2	1.4		
	ZUL	PD	11	12	54.2		13	8.4		1	.2	1.1		
AUG 21	ZUL	PU	17	44	57.1		45	28.0						
	BUB	PU	17	45	0.0		45	32.0						
AUG 21	ZUL	PU	17	50	11.2		50	41.0						
	BUB	P	17	50	14.0		50	46.0						
	ZUL	PD	16	55	36.6		55	54.1		2	.1	1.3		
AUG 23	ZUL	P	5	8	1.0					6	1.5	2.4		
*GS : H0= 4:50:34.6 LAT= 7.490S LON=127.505E Z=136KM MB=5.8 BANDA SEA														
AUG 23	LIN	P	17	46	0.0		46	4.3						
	ZUL	PU	17	46	4.5		46	17.9		4	.2	1.7		

SED

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
AUG	23	BUB	PU	17	46	6.0		46	20.2	3	.2	1.6		
		*SED	: H0=	17:45:47.4				LAT=46-56.7	LON=	9-29.3	Z=	10KM	ML=1.6	
				RMS=	.36S	ERH=	4.6KM	ERZ=	10.0KM	D3=	26KM	NO=	7	
				REGION UNTERVAZ GR										
AUG	24	ZUL	PD	2	59	50.8		6	1.5	2.4				
		*GS	: H0=	2:47:30.1				LAT= 4.280N	LCN=	76.855W	Z=	84KM	MB=5.9	
				COLOMBIA										
AUG	24	ZUL	PD	10	23	42.5		2	1.5	2.0				
		*GS	: H0=	10:20:20.5				LAT=37.753N	LON=	21.172E	Z=	33KM	MB=4.2	
				SOUTHERN GREECE										
AUG	24	ZUL	PD	10	53	19.9		7	1.5	2.5				
		*GS	: H0=	10:41:11.2				LAT=52.407N	LCN=	168.273W	Z=	41KM	MB=5.7	
				FOX ISLANDS, ALEUTIAN ISLANDS										
AUG	24	ZUL	PKP	14	20	18.5		2	1.5	2.0				
		*GS	: H0=	14: 1:52.5				LAT=14.590S	LCN=	170.696E	Z=	631KM	MB=4.9	
				NEW HEBRIDES ISLANDS REGION										
AUG	24	ZUL	PU	22	31	5.0		2	1.5	2.0				
		*GS	: H0=	22:18:55.4				LAT=52.297N	LCN=	168.314W	Z=	37KM	MB=5.3	
				FOX ISLANDS, ALEUTIAN ISLANDS										
AUG	25	ZUL	PU	1	31	40.0		6	1.5	2.4				
		*GS	: H0=	1:18:39.9				LAT=32.049N	LCN=	142.292E	Z=	33KM	MB=5.9	
				SOUTH OF HONSHU, JAPAN										
AUG	25	ZUL	PKP	14	54	7.0		3	1.5	2.1				
		*GS	: H0=	14:34:46.7				LAT=23.481S	LON=	179.905W	Z=	542KM	MB=5.3	
				SOUTH OF FIJI ISLANDS										
AUG	26	ZUL	PD	18	13	44.2		1	1.5	1.7				
		*GS	: H0=	18: 9:55.9				LAT=35.254N	LCN=	22.270E	Z=	33KM	MB=3.8	
				MEDITERRANEAN SEA										
AUG	27	ZUL	PD	13	4	30.3		7	1.5	2.5				
		*GS	: H0=	12:56: 3.2				LAT=39.669N	LON=	73.833E	Z=	33KM	MB=5.8	
				TADZHIK-SINKIANG BORDER REGION										
AUG	29	ZUL	PKP	3	10	51.0		3	1.5	2.1				
		*GS	: H0=	2:50:14.9				LAT=28.924S	LON=	177.473W	Z=	58KM	MB=5.3	
				KERMADEC ISLANDS REGION										
AUG	29	ZUL	PD	10	6	34.4		36	1.5	3.2			A	
		*GS	: H0=	9:59:55.5				LAT=73.366N	LON=	55.094E	Z=	0KM	MB=6.4	
				NOVAYA ZEMLYA										
AUG	29	ZUL	PD	13	30	41.9		30	56.7	5	.2	1.8		
		BUB	PD	13	30	42.5		30	58.9	3	.3	1.6		
		*SED	: H0=	13:30:20.9				LAT=46N45.1	LON=	9E36.2	Z=	2KM	ML=2.0	
				RMS=	.39S	ERH=	4.1KM	ERZ=	-0.0KM	D3=	123KM	NO=	8	

SED

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
AUG	30	BUB	PU	4	29	11.8								
		ZUL	PU	4	29	17.7				10	.2	2.1		
		LIN	P	4	29	30.0				15	.2	2.3		
		*GS	: H0=	4:29: 2.6				LAT=48.079N	LCN=	9.212E	Z=	5KM		
				GERMANY										
AUG	30	ZUL	PU	11	17	58.2		17	27.2	1	1.5	1.7		
AUG	30	ZUL	PU	15	12	23.0				11	1.5	2.7	A	
		*GS	: H0=	15: 0: .2				LAT=37.150N	LCN=	116.083W	Z=	0KM	MB=5.8	
				SOUTHERN NEVADA										
AUG	31	ZUL	PKP	1	33	54.0				1	1.5	1.7		
		*GS	: H0=	1:14: .5				LAT=22.663S	LCN=	170.925E	Z=	17KM	MB=4.6	
				LOYALTY ISLANDS REGION										
SEP	01	ZUL	PU	17	24	54.0				1	1.5	1.7		
SEP	02	ZUL	PD	17	17	24.7		17	36.7	2	.2	1.4		
		BUB	PD	17	17	26.6		17	39.9	2	.3	1.5		
SEP	03	BAS	P	0	18	11.8		18	13.7					
		ZUL	PD	0	18	22.1		18	28.0	16	.2	2.3		
		BUB	PD	0	18	24.2		18	34.0	28	.2	2.5		
		LIN	SP	0	18	30		18	46.0					
		DIX	SP	0	18	30		18	49.0					
		EMO	SP	0	18	30.0		18	50.3					
		*SED	: H0=	0:18:11.5				LAT=47N33.6	LCN=	7E37.0	Z=	11KM	ML=2.2	
				RMS=	.71S	ERH=	3.1KM	ERZ=	5.4KM	D3=	46KM	NO=	20	
				REGION BASEL (CH)										
				IO= III (MSK) R= 10 KM										
				INTENS. (MSK): BOTTMINGEN III, NUGLAR III, ARLESHEIM										
				(6) II-III, BASEL (9) II-III, REINACH										
				(7) II-III, MUTTENZ II-III, BINNINGEN										
				(4) II-III, BIRSFELDEN II-III, ETTLINGEN										
				II-III, MUENCHENSTEIN (2) II.										
SEP	03	BAS	P	5	37	1.0		37	2.8					
		ZUL	PD	5	37	10.6		37	17.5	8	.2	2.0		
		BUB	PD	5	37	13.7		37	24.4	18	.2	2.3		
		LIN	SP	5	37	10		37	20.0					
		EMO	SP	5	37	10		37	30.0					
		*SED	: H0=	5:36:59.9				LAT=47N30.5	LCN=	7E35.4	Z=	7KM	ML=2.0	
				RMS=	.47S	ERH=	2.2KM	ERZ=	4.5KM	D3=	52KM	NO=	18	
				REGION BASEL (CH)										
				IO= II (MSK) R= 10 KM										
				INTENS. (MSK): ARLESHEIM (3) II-III, BASEL (3) II,										
				BINNINGEN II, MUENCHENSTEIN II, REINACH										
				(2) II.										
SEP	03	BAS	P	5	53	8.0		53	23.5	12	.2	2.2		
		ZUL	PD	5	53	16.7		53	29.7	30	.2	2.6		
		BUB	PD	5	53	20.0		53	36.5					
		LIN	SP	5	53	20.0		53	38.5					
		DIX	SP	5	53	20.0		53	40.3					
		EMO	SP	5	53	20.0		53	40.3					

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
*SED : H0= 5:53: 6.1 LAT=47N31.6 LCN= 7E34.6 Z= 11KM ML=2.2 RMS= .61S ERH= 2.7KM ERZ= 6.1KM D3= 51KM NO=21 REGION BASEL(CH) I0= III (MSK) R= 10 KM INTENS.(MSK): ARLESHEIM (3) III, BERNINGEN (4) III, BASEL (14) II-III, REINACH (7) II-III, MUTTENZ (2) II-III, BOTTIMINGEN (3) II-III, BIRSFELDEN II, ETTINGEN II, MUENCHENSTEIN II.														
SEP	03	ZUL	PD	6	8	6.5				11	1.5	2.7		
*GS : H0= 5:55: 6.4 LAT=18.337N LCN=119.171E Z= 11KM MB=5.9 PHILIPPINE ISLANDS REGION														
SEP	03	ZUL	PU	10	52	14.2		52	21.2	3	.2	1.6		
		BUB	PU	10	52	17.3		52	27.2	6	.2	1.9		
*SED : H0= 10:52: 4.4 LAT=47N33.2 LCN= 7E38.2 Z= 10KM ML=1.5 RMS= .24S ERH= 3.4KM ERZ= 8.4KM D3= 76KM NO=10 REGION BASEL(CH)														
SEP	03	BUB	PD	11	5	4.0		5	19.4	2	.3	1.5		
		ZUL	PD	11	5	10.1		5	28.2	1	.3	1.2		
SEP	03	BUB	PD	12	47	50.1		47	58.5	3	.2	1.6		
		ZUL	PD	12	47	57.0		48	10.0	5	.2	1.8		
SEP	03	ZUL	P	17	41	44.4		41	51.2	1	.2	1.1		
		BUB	PD	17	41	47.5		41	57.2	2	.2	1.4		
*SED : H0= 17:41:33.9 LAT=47N36.4 LCN= 7E34.3 Z= 2KM ML=1.0 RMS= .32S ERH= 4.4KM ERZ=-0.0KM D3= 79KM NO= 8 REGION BASEL(CH)														
SEP	03	ZUL	PU	19	49	44.5				6	1.5	2.4		
*GS : H0= 19:41:19.9 LAT=39.425N LCN= 73.702E Z= 33KM MB=5.4 TADZHIK-SINKIANG BORDER REGION														
SEP	04	ZUL	PD	6	32	48.0				28	1.5	3.1		
*GS : H0= 6:29:16.4 LAT=33.134N LCN= 13.567E Z= 17KM MB=5.1 MEDITERRANEAN SEA														
SEP	04	ZUL	PU	9	32	38.5				3	1.5	2.1		
*GS : H0= 9:20: 2.5 LAT=40.203N LCN=141.743E Z= 55KM MB=5.3 NEAR EAST COAST OF HONSHU, JAPAN														
SEP	04	BUB	PD	10	0	15.7		0	26.6	4	.2	1.7		
		ZUL	PD	10	0	16.7		0	27.8	4	.2	1.7		
SEP	05	ZUL	PD	7	10	37.3		10	45.5	4	.2	1.7		
		BUB	PD	7	10	39.3		10	49.0	6	.2	1.9		
*SED : H0= 7:10:26.0 LAT=47N30.0 LCN= 7E38.7 Z= 15KM ML=1.6 RMS= .10S ERH=11.6KM ERZ=10.6KM D3=104KM NO= 5 REGION BASEL(CH)														
SEP	05	ZUL	PD	11	38	32				7	1.5	2.5		
*GS : H0= 11:34:36.1 LAT=35.685N LCN= 25.050E Z= 53KM MB=4.2 CRETE														

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
SEP	05	ZUL	PU	17	49	8.5		49	23.9	10	.2	2.1		
		BUB	PU	17	49	9.7		49	26.2	6	.2	1.9		
SEP	06	ZUL	P	3	59	31.5		59	45.7	18	.2	2.3		
		BUB	PU	3	59	37.4		59	54.4	3	.2	1.6		
*SED : H0= 3:59:12.3 LAT=46N51.4 LCN= 7E11.0 Z= 2KM ML=2.2 RMS= .43S ERH= 2.3KM ERZ=-0.0KM D3=113KM NO=11 REGION FRIBOURG(CH)														
SEP	06	EMO	P	4	3	3.7		3	15.0					
		ZUL	PD	4	3	7.0		3	22.0	50	.2	2.8		
		BUB	P	4	3	12.7		3	29.9	15	.2	2.3		
		LIN	SP	4	3	20		3	36.5					
*SED : H0= 4: 2:48.4 LAT=46N50.7 LCN= 7E15.4 Z= 1KM ML=2.7 RMS= .59S ERH= 3.5KM ERZ= 2.6KM D3=108KM NO=17 REGION FRIBOURG(CH) I0= III (MSK) R= 10 KM INTENS.(MSK): NEUENEGG (7) III, UEBERSTORF (2) III, DUEDINGEN II-III.														
SEP	06	ZUL	PD	5	56	41.0		56	48.8	50	.2	2.8		
		BUB	PU	5	56	46.2		56	57.1	25	.2	2.5		
		EMO	P	5	56	53.5		57	10.0					
		LIN	SP	5	57	0		57	12.0					
*SED : H0= 5:56:30.4 LAT=47N 6.1 LCN= 7E49.3 Z= 11KM ML=2.5 RMS= .45S ERH= 2.9KM ERZ= 6.7KM D3= 63KM NO=15 REGION HUTTWIL,KT.BERN(CH)														
SEP	06	BUB	PD	13	28	40.0		28	55.2	2	.3	1.5		
		ZUL	P	13	28	44.2		29	2.7	4	.2	1.7		
SEP	06	BUB	PD	23	10	23.8		10	31.2	3	.2	1.6		
SEP	07	BUB	PU	17	33	52.7		34	6.8	4	.2	1.7		Q
		LIN	P	17	33	56.5		33	60.0					
SEP	08	BUB	PU	12	58	36.7		59	25.0	3	.2	1.6		
*GS : H0= 12:57:31.5 LAT=43.541N LCN= 7.353E Z= 28KM NEAR SOUTH COAST OF FRANCE														
SEP	09	BUB	PU	12	51	3.7		51	51.0	4	.2	1.7		
*GS : H0= 12:50:15.3 LAT=46.223N LCN= 12.565E Z= 33KM NORTHERN ITALY														
SEP	10	BUB	PD	6	4	10.7		4	19.6	14	.2	2.2		
		ZUL	PD	6	4	15.6		4	26.8					
SEP	10	BUB	PU	7	22	31.5		22	37.9	3	.2	1.6		
SEP	10	ZUL	PU	15	28	50.5		28	53.2					Q
		BUB	PD	15	28	54.2		28	59.7	4	.5	1.9		
SEP	10	BUB	PD	16	24	14.0		24	27.7	5	.2	1.8		Q
		ZUL	P	16	24	14.4		24	27.3					
		LIN	SP	16	24	30		24	36.0					
SEP	10	ZUL	P	21	8	39		9	28.5					

TABLE 2: SEISMIC BULLETIN 1974

SED

PAGE 74		TABLE 2: SEISMIC BULLETIN												
MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
OCT	10	*GS	:	H0=	1:47:12.7		LAT=22.120S	LCN=179.492W	Z=588KM	MB=5.1				
OCT	10	BUB	:	PU	4 4 6.2									
		ZUL	:	P	4 4 8.0									
		*GS	:	H0=	4:3:27.4		LAT=47.855N	LCN=12.282E	Z=33KM					
OCT	10	BUB	:	PU	5 17 15.3									
		ZUL	:	P	5 17 17.0									
OCT	10	BUB	:	PD	7 0 37.0									
		ZUL	:	P	7 0 38.6									
		*GS	:	H0=	6:48:14.0		LAT=40.960N	LCN=143.129E	Z=29KM	MB=5.8				
OCT	10	BUB	:	PU	7 9 11.0									
		ZUL	:	P	7 9 11.5									
		*GS	:	H0=	6:56:49.0		LAT=40.929N	LCN=143.112E	Z=45KM	MB=5.8				
OCT	10	ZUL	:	P	13 7 29.5									
		BUB	:	PD	13 7 34.5									
OCT	10	BUB	:	PU	21 45 37									
		ZUL	:	P	21 45 37.6									
		*GS	:	H0=	21:32:10.6		LAT=4.139S	LCN=102.827E	Z=21KM	MB=6.0				
OCT	11	BUB	:	PKP	8 54 11									
		ZUL	:	PKP	8 54 15.7									
		*GS	:	H0=	8:33:52.3		LAT=60.748S	LCN=153.931E	Z=33KM	MB=5.3				
OCT	12	BUB	:	PU	4 59 56									
		ZUL	:	P	4 59 59.6									
		*GS	:	H0=	4:47:31.4		LAT=40.486N	LCN=143.485E	Z=26KM	MB=5.3				
OCT	12	BUB	:	PD	6 27 18									
		ZUL	:	P	6 27 19.2									
		*GS	:	H0=	6:14:51.5		LAT=40.506N	LCN=143.575E	Z=24KM	MB=5.5				
OCT	12	BUB	:	PU	16 29 52.9									
		ZUL	:	P	16 29 54.6									
		*GS	:	H0=	16:17:23.1		LAT=40.307N	LCN=143.689E	Z=14KM	MB=4.9				
OCT	12	BUB	:	PKP	19 18 24									
		ZUL	:	PKP	19 18 26.7									
		*GS	:	H0=	18:59:44.2		LAT=17.884S	LCN=178.683W	Z=623KM	MB=4.9				
OCT	14	BUB	:	PD	4 13 5.5									
		ZUL	:	P	4 13 5.5									
		*GS	:	H0=	4:11:16.3		LAT=43.722N	LCN=17.580E	Z=33KM	MB=4.2				

TABLE 2: SEISMIC BULLETIN 1974

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MO	DAY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
OCT	14	BUB	PU	8	2	38.3								
		ZUL	P	8	2	45.4		2	44.5	3	.2	1.6		
								2	56.0					
OCT	14	ZUL	P	13	5	19.6								
		LIN	P	13	5	20.8		5	35.0					
		BUB	P	13	5	23		5	38.0					
		*SED	:	H0=	13:45:57.4	LAT=46N32.0	LON=	7E17.7	Z=	6KM	ML=1.5			
				RMS=	.32S	ERH=	2.7KM	ERZ=	5.7KM	D3=135KM	NO=	9		
						REGION	ZWEISIMMEN,KT.BERN(CH)							
OCT	14	BUB	PU	14	24	10								
		ZUL	P	14	24	11.5				3	1.5	2.1		
		*GS	:	H0=	14:11:41.1	LAT=40.572N	LON=143.675E	Z=	15KM	MB=5.3				
						OFF	EAST COAST OF HONSHU, JAPAN							
OCT	15	BUB	PU	1	29	15.5								
		ZUL	P	1	29	16.2				3	1.5	2.1		
		*GS	:	H0=	1:16:47.1	LAT=40.628N	LON=143.677E	Z=	22KM	MB=5.4				
						OFF	EAST COAST OF HONSHU, JAPAN							
OCT	15	ZUL	PD	1	39	57.1		40	2.1					
		BUB	PD	1	39	59.7		40	6.7	7	.2	1.9		
		*SED	:	H0=	1:39:50.1	LAT=47N15.1	LON=	8E45.8	Z=	13KM	ML=1.6			
				RMS=	.20S	ERH=	1.3KM	ERZ=	3.8KM	D3=76KM	NO=10			
						REGION	STAEFA,KT.ZUERICH(CH)							
OCT	15	ZUL	PD	13	10	15.4		10	18.6					Q
		BUB	PD	13	10	19.2		10	24.7	5	.2	1.8		
OCT	16	BUB	PD	3	42	20.8		42	29.3	70	.2	2.9		
		ZUL	PD	3	42	26.6		42	39.3					
		LIN	P	3	42	33.7		42	51.2					
		*GS	:	H0=	3:42:8.6	LAT=48.288N	LON=	9.121E	Z=	21KM	ML=3.6			
						GERMANY								
				I0=	V	(MSK)	R=	140	KM					
				INTENS.(MSK):	ZUERICH (3) III, FEHRALTDORF III,									
					DOETTINGEN III, TURBENTHAL III, WIN-									
					TERTHUR III, SCHAFFHAUSEN III, ERLEN-									
					BACH II-III, KILCHBERG II-III.									
OCT	16	EMO	SP	3	59	12.1		59	15.0					
		*SED	:	H0=	3:59:11.2	LAT=45N57.3	LON=	7E 9.0	Z=	10KM				
				RMS=	.14S	ERH=31.4KM	ERZ=-0.0KM	D3=231KM	NO=	4				
						HTE.SAVOIE(F)								
OCT	16	ZUL	PD	5	50	42.8								
		BUB	PD	5	50	42.9				71	1.5	3.5		
		*GS	:	H0=	5:45:9.8	LAT=52.636N	LON=	32.070W	Z=	33KM	MB=5.8			
						NORTH ATLANTIC OCEAN								
OCT	16	BUB	PU	6	41	14.6								
		ZUL	P	6	41	16.5				7	1.5	2.5		A</

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
OCT 16	*	SED	:	H0=	15:36:	1.6	LAT=47N24.8 LCN= 9E54.9 Z= 14KM ML=1.6							
			:	RMS=	.22S		ERH=13.2KM ERZ=14.5KM D3=115KM NO= 8							
			:	VORARLBERG(A)										
			:				6	1.5		2.4				
OCT 16	BUB	PD		9	42	16.8								
	ZUL	P		9	42	18								
	*GS	:	H0=	9:29:49.0			LAT=40.338N LON=143.670E Z= 24KM MB=5.6							
			:	OFF EAST COAST OF HONSHU, JAPAN										
OCT 16	ZUL	PD		13	9	12.0		9	23.8					
	BUB	PD		13	9	15.5		9	29.6	1	.2	1.1		
OCT 16	BUB	PU		15	36	19.4		36	32.8	2	.3	1.5		
	ZUL	PU		15	36	20.9		36	34.5					
OCT 16	LIN	P		17	4	58.6		5	2.1					
	ZUL	PD		17	5	14.3		5	28.4					
	BUB	PU		17	5	16.1		5	30.4	2	.2	1.4		
OCT 17	ZUL	P		17	5	23.3		5	38.3					
	BUB	PD		17	5	24.2		5	40.9	6	.2	1.9		
										3	1.5	2.1		
OCT 18	BUB	PKP		12	11	35.5								
	ZUL	PKP		12	11	35.5								
	*GS	:	H0=	11:51:49.0			LAT=16.332S LCN=172.446W Z= 33KM MB=5.4							
			:	SAMOA ISLANDS REGION										
OCT 19	BUB	P		11	8	13.8								
OCT 20	BUB	PU		0	28	57.7		29	5.5	5	.2	1.8		
	ZUL	P		0	29	3.5		29	15.8					
OCT 20	ZUL	P		11	28	29.2								
	BUB	PU		11	28	30.2				6	1.5	2.4		
	*GS	:	H0=	11:25:55.3			LAT=39.697N LCN= 18.891E Z= 33KM MB=4.9							
			:	SOUTHERN ITALY										
OCT 21	BUB	PKP		4	31	8.5				7	1.5	2.5		
	ZUL	PKP		4	31	8.5								
	*GS	:	H0=	4:12:29.4			LAT=17.909S LON=178.612W Z=602KM MB=6.0							
			:	FIJI ISLANDS REGION										
OCT 21	BUB	PD		12	59	58.3				14	1.5	2.8		
	ZUL	P		13	0	0.0								
	*GS	:	H0=	12:48:13.6			LAT=53.929N LCN=160.482E Z= 33KM MB=5.7							
			:	NEAR EAST COAST OF KAMCHATKA										
OCT 21	ZUL	P		14	51	37.1								
	BUB	PD		14	51	38.5				5	1.5	2.4		
	*GS	:	H0=	14:49:29.4			LAT=39.727N LCN= 15.052E Z=317KM MB=4.0							
			:	SOUTHERN ITALY										
OCT 22	BUB	PU		5	11	31.5				7	1.5	2.5		
	ZUL	P		5	11	32.5								
	*GS	:	H0=	5: 6:16.2			LAT=62.120N LCN= 26.375W Z= 33KM MB=5.1							
			:	ICELAND REGION										
OCT 22	BUB	PD		12	11	30.0				5	1.5	2.4		

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
OCT 22	ZUL	P		12	11	30.0								
	*GS	:	H0=	12: 6:11.2			LAT=62.087N LON= 26.170W Z= 33KM MB=4.9							
			:	ICELAND REGION										
OCT 23	ZUL	PKP		6	34	2.8								
	BUB	PKP		6	34	3								
	*GS	:	H0=	6:14:54.0			LAT= 8.420S LON=154.034E Z= 48KM MB=6.1							
			:	DENTRECASTEAUX ISLANDS REGION										
OCT 24	LIN	P		15	11	40.4								
	ZUL	P		15	11	52.6				11	53.6			
	BUB	PU		15	11	53.2				12	14.4			Q
										12	15.7	10	.2	2.1
OCT 25	ZUL	P		0	18	1.7								
	BUB	PU		0	18	2.9								
										3	1.5	2.1		
OCT 26	BUB	PD		11	47	30.0								
	ZUL	P		11	47	31.0				11	1.5	2.7		
OCT 26	BUB	PU		15	8	47.9								
	ZUL	P		15	8	52.5				9	34.0	2	1.5	2.0
OCT 26	BUB	PU		17	58	57.1				59	31.0	2	1.5	2.0
	ZUL	P		17	58	57.4				59	31.8			
OCT 27	ZUL	P		8	56	29.5								
	BUB	PD		8	56	30								
	*GS	:	H0=	8:52:20.4			LAT=34.273N LCN= 25.138E Z= 70KM MB=4.4							
			:	CRETE										
OCT 28	BUB	PD		7	26	57.3				27	3.5	2	.2	1.4
	ZUL	P		7	27	4.6				27	15.5			
OCT 29	BUB	PD		1	7	3.2								
	ZUL	P		1	7	5				28	1.5	3.1		
	*GS	:	H0=	1: 5:15.5			LAT=44.625N LON= 18.414E Z= 33KM MB=5.1							
			:	YUGOSLAVIA										
OCT 29	BUB	PKP		3	32	21.7				6	1.5	2.4		
	ZUL	PKP		3	32	21.8								
	*GS	:	H0=	3:14:14.6			LAT= 6.880S LCN=129.463E Z=117KM MB=6.5							
			:	BANDA SEA										
OCT 29	BUB	PKP		10	11	2.5				3	1.5	2.1		
	*GS	:	H0=	9:51:19.9			LAT=51.821S LCN=139.439E Z= 33KM MB=5.0							
			:	SOUTH OF AUSTRALIA										
OCT 31	BUB	PD		7	17	38.5				2	1.5	2.0		
	*GS	:	H0=	7:15:41.4			LAT=43.246N LCN= .884W Z= 33KM MB=3.8							
			:	PYRENEES										
NOV 02	BUB	PD		5	6	21.5				90	1.5	3.6		A
	ZUL	P		5	6	23.5								
	*GS	:	H0=	4:59:56.7			LAT=70.817N LCN= 54.063E Z= 0KM MB=6.7							
			:	NOVAYA ZEMLYA										
NOV 02	BUB	PU		8	39	44.7				2	1.5	2.0		

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
DEC 14		ZUL	PU	21	32	21.2				3	1.5	2.1		
		BUB	PU	21	32	22.6				3	1.5	2.1		
		*GS	H0=	21:29:19.8			LAT=38.605N	LCN=	20.407E	Z=	11KM	MB=5.0		
			GREECE											
DEC 15		BUB	PD	20	58	20.4				1	1.5	1.7		
		ZUL	PD	20	58	20.6				1	1.5	1.7		
DEC 16		BLA	PU	17	16	6.5		16	19.6					
		ZUL	P	17	16	17.6		16	35.5	2	.2	1.4		
		BUB	PD	17	16	21.4		16	41.2	3	.2	1.6		
DEC 16		ZUL	PU	17	53	54.2				1	1.5	1.7		
		BUB	PU	17	53	54.7				1	1.5	1.7		
		*GS	H0=	17:53:14.3			LAT=49.752N	LCN=	6.446E	Z=	33KM			
			GERMANY											
DEC 18		BUB	P	9	13	50.1		14	4.2	1	.2	1.1		Q
		BLA	P	9	13	50.7		14	4.7					
DEC 19		BUB	PD	8	5	31.9		5	46.7	2	.2	1.4		
		ZUL	PD	8	5	36.8		5	54.5	2	.2	1.4		
DEC 19		EMO	P	8	7	24.1		7	26.9					
DEC 19		BUB	PD	9	18	17.9		18	25.5	3	.2	1.6		
		ZUL	PU	9	18	22.2		18	34.6	7	.2	1.9		
		BLA	P	9	18	29.0		18	47.2					
DEC 19		BUB	PD	11	17	41.0				2	1.5	2.0		
		ZUL	PD	11	17	41.2				2	1.5	2.0		
		*GS	H0=	10:59:1.9			LAT=17.467S	LCN=179.042E	Z=	646KM	MB=4.5			
			FIJI ISLANDS											
DEC 19		ZUL	PU	15	33	7.1		33	18.4	10	.2	2.1		Q
		BUB	PU	15	33	7.6		33	19.8	5	.2	1.8		
DEC 19		BUB	PD	16	13	14.7				5	1.5	2.4		
		ZUL	PD	16	13	15.3				3	1.5	2.1		
		*GS	H0=	16:04:49.0			LAT=7.379N	LCN=78.650W	Z=	13KM	MB=5.4			
			PANAMA											
DEC 20		ZUL	PD	12	7	30.2		7	33.6	25	.2	2.5		Q
		BUB	P	12	7	34.0		7	39.5	3	.2	1.6		
		BLA	P	12	7	36.2		7	42.5					
		LIN	P	12	7	45.5		7	58.5					
DEC 20		ZUL	PD	12	28	46.5				2	1.5	2.0		
		BUB	PD	12	28	46.8				2	1.5	2.0		
		*GS	H0=	12:16:47.2			LAT=50.767N	LCN=157.263E	Z=	33KM	MB=5.1			
			KURIL ISLANDS											
		*GS	H0=	15:09:29.0			LAT=39.736N	LCN=20.375E	Z=	12KM	MB=4.8			
			GREECE-ALBANIA BORDER REGION											
DEC 20		BLA	PD	16	37	11.3		37	20.0	14	.2	2.2		
		EMO	P	16	37	14.9		37	26.4					
		ZUL	PD	16	37	18.2		37	32.0	12	.2	2.2		

MO	DY	STA	PRK	H	M	S	SRK	M	S	AMP	T	LOG	A/T	RK
DEC 20		LIN	P	16	37	22.0		37	38.0					
		BUB	PU	16	37	23.5		37	40.5	9	.2	2.0		
		*SED	H0=	16:36:59.5			LAT=46N52.3	LCN=	7E11.4	Z=	2KM	ML=2.3		
			RMS=	.72S	ERH=	2.6KM	ERZ=	-0.0KM	D3=	69KM	NO=26			
			REGION FRIBOURG(CH)											
DEC 20		BUB	PU	16	50	6				3	1.5	2.1		
		ZUL	PD	16	50	6.8				6	1.5	2.4		
		*GS	H0=	16:38:55.6			LAT=49.832N	LCN=149.681E	Z=	416KM	MB=5.0			
			NORTHWEST OF KURIL ISLANDS											
DEC 21		ZUL	PKP	8	48	37				9	1.5	2.6		
		BUB	PKP	8	48	37.5				9	1.5	2.6		
		*GS	H0=	8:28:55.9			LAT=14.563S	LCN=175.232W	Z=	33KM	MB=5.6			
			SAMOA ISLANDS REGION											
DEC 21		BLA	PU	11	27	18.4		27	31.2					
		ZUL	PD	11	27	30.2		27	47.9	1	.2	1.1		Q
		BUB	PD	11	27	32.8		27	52.9	1	.2	1.1		
DEC 21		ZUL	PD	15	15	46.7				1	1.5	1.7		
		BUB	PD	15	15	47				1	1.5	1.7		
DEC 22		BLA	PD	3	24	31.4		24	44.4					
		ZUL	P	3	24	38.0		24	54.3	6	.2	1.9		
		BUB	PU	3	24	44.0		25	3.3	5	.2	1.8		
		*SED	H0=	3:24:16.2			LAT=46N41.9	LCN=	6E58.2	Z=	4KM	ML=2.2		
			RMS=	.63S	ERH=	2.8KM	ERZ=	4.1KM	D3=	85KM	NO=18			
			REGION ROMONT,KT.FRIBOURG(CH)											
DEC 22		BUB	PD	17	2	52.4				4	1.5	2.3		
		ZUL	PD	17	2	53.0				2	1.5	2.0		
		*GS	H0=	16:44:5.3			LAT=17.622S	LCN=179.023W	Z=	559KM	MB=5.1			
			FIJI ISLANDS REGION											
DEC 23		ZUL	PKP	1	23	47.2				5	1.5	2.4		
		BUB	PKP	1	23	49.5				3	1.5	2.1		
		*GS	H0=	1:4:2.7			LAT=14.590S	LCN=175.666W	Z=	33KM	MB=5.4			
			SAMOA ISLANDS REGION											
DEC 23		BUB	PU	5	27	47.5				4	1.5	2.3		
		ZUL	PU	5	27	50.0				2	1.5	2.0		
		*GS	H0=	5:22:8.4			LAT=43.128N	LCN=47.049E	Z=	33KM	MB=4.9			
			EASTERN CAUCASUS											
DEC 23		BUB	PU	9	55	30.5				2	1.5	2.0		
		ZUL	PU	9	55	31.4				2	1.5	2.0		
		*GS	H0=	9:45:42.8			LAT=29.412N	LCN=81.393E	Z=	45KM	MB=5.2			
			NEPAL											
DEC 24		BUB	PD	2	22	46		23	22.0	3	1.5	2.1		
		ZUL	PD	2	22	46				2	1.5	2.0		
		*GS	H0=	2:10:25.4			LAT=14.259N	LCN=90.080W	Z=	155KM	MB=5.4			
			GUATEMALA											
DEC 24		ZUL	PU	7	8	53				14	1.5	2.8		
		BUB	PU	7	8	54				14	1.5	2.6		

JAN 03	H0= 7:39:47.3	LAT=39.803N TURKEY	LON= 26.883E	Z= 33KM	MB=4.3	GS
JAN 05	H0= 4:28: 3.9	LAT=45.431N RUMANIA	LON= 25.675E	Z= 90KM	MB=3.9	GS
JAN 05	H0= 7:33:37.3	LAT=43.430N CENTRAL ITALY	LON= 12.303E	Z= 33KM	MB=3.9	GS
JAN 06	H0= 7:46: 6.8	LAT=35.130N DODECANESE ISLANDS	LON= 27.750E	Z= 28KM	MB=3.2	GS
JAN 06	H0= 23:24:16.7	LAT=40.183N AEGEAN SEA	LON= 24.646E	Z= 33KM	MB=4.3	GS
JAN 06	H0= 23:49:48.9	LAT=40.090N AEGEAN SEA	LON= 24.725E	Z= 47KM		GS
JAN 10	H0= 11:53:32.6	LAT=38.897N SICILY	LON= 14.822E	Z=339KM	MB=4.3	GS
JAN 11	H0= 21:15: 6.1	LAT=40.139N AEGEAN SEA	LON= 24.463E	Z= 45KM	MB=3.8	GS
JAN 15	H0= 17:34:19.4	LAT=37.405N SOUTHERN GREECE	LON= 21.009E	Z= 38KM	MB=4.2	GS
JAN 15	H0= 19:47:34.3	LAT=64.757N ICELAND	LON= 17.113W	Z= 33KM	MB=4.7	GS
JAN 15	H0= 20:11:13.3	LAT=47.067N SWITZERLAND	LON= 7.156E	Z= 33KM		GS
JAN 18	H0= 10:57:14.2	LAT=40.429N TURKEY	LON= 28.904E	Z= 23KM	MB=4.2	GS
JAN 19	H0= 2:49:50.3	LAT=46.664N SWITZERLAND	LON= 7.428E	Z= 33KM		GS
JAN 21	H0= 0:13: 8.1	LAT=36.165N DODECANESE ISLANDS	LON= 27.963E	Z= 70KM	MB=4.0	GS
JAN 21	H0= 20:11:57.6	LAT=38.942N SICILY	LON= 15.406E	Z=133KM	MB=3.8	GS
JAN 21	H0= 21:18:22.3	LAT=38.266N GREECE	LON= 22.260E	Z=140KM	MB=3.1	GS
JAN 24	H0= 9:40:16.0	LAT=38.323N GREECE	LON= 19.979E	Z= 33KM	MB=4.7	GS
JAN 24	H0= 13:19:23.2	LAT=39.810N TYRRHENIAN SEA	LON= 14.589E	Z=358KM	MB=4.6	GS
JAN 25	H0= 0:43:40.4	LAT=42.852N CENTRAL ITALY	LON= 13.212E	Z= 33KM		GS
JAN 26	H0= 5:19:16.6	LAT=37.404N TURKEY	LON= 29.756E	Z= 25KM	MB=4.4	GS

JAN 27	H0= 21: 6:20.4	LAT=35.163N CRETE	LON= 25.421E	Z= 66KM	MB=4.5	GS
JAN 28	H0= 0:36:10.9	LAT=37.386N NORTH ATLANTIC OCEAN	LON= 11.075W	Z= 33KM	MB=4.0	GS
JAN 28	H0= 3:39: 3.6	LAT=36.065N ALGERIA	LON= 4.498E	Z= 33KM	MB=4.8	GS
JAN 29	H0= 15:12:44.9	LAT=38.392N GREECE	LON= 21.798E	Z= 31KM	MB=4.4	GS
FEB 01	H0= 0: 1: 2.4	LAT=38.552N TURKEY	LON= 27.015E	Z= 29KM	MB=5.2	GS
FEB 04	H0= 23:38: 4.0	LAT=40.168N TURKEY	LON= 27.006E	Z= 57KM	MB=3.6	GS
FEB 05	H0= 6:41:59.5	LAT=35.979N ALGERIA	LON= 4.385E	Z= 33KM	MB=4.4	GS
FEB 05	H0= 15: 5:24.2	LAT=36.819N DODECANESE ISLANDS	LON= 27.016E	Z=153KM	MB=4.8	GS
FEB 05	H0= 18:23:26.2	LAT=37.309N TURKEY	LON= 29.583E	Z= 39KM	MB=4.4	GS
FEB 07	H0= 8:46:54.6	LAT=40.081N TURKEY	LON= 26.860E	Z= 37KM	MB=4.3	GS
FEB 08	H0= 20:12:17.7	LAT=44.197N FRANCE	LON= 6.542E	Z= 33KM	MB=4.9	GS
FEB 10	H0= 4:12: .4	LAT=37.333N TURKEY	LON= 29.572E	Z= 33KM	MB=4.6	GS
FEB 11	H0= 11:52:11.7	LAT=36.227N TURKEY	LON= 31.801E	Z= 99KM		GS
FEB 11	H0= 13:44:30.8	LAT=46.186N SWITZERLAND	LON= 7.835E	Z= 33KM		GS
FEB 12	H0= 12:35:44.5	LAT=46.126N SWITZERLAND	LON= 7.751E	Z= 33KM		GS
FEB 14	H0= 9:17:10.1	LAT=38.559N TURKEY	LON= 27.214E	Z= 15KM	MB=4.3	GS
FEB 17	H0= 5: 3: 7.4	LAT=38.013N GREECE	LON= 21.707E	Z= 33KM	MB=3.9	GS
FEB 17	H0= 11:38:15.1	LAT=37.328N IONIAN SEA	LON= 20.799E	Z= 8KM	MB=4.0	GS
FEB 19	H0= 23:42: 5.7	LAT=36.561N SOUTHERN GREECE	LON= 23.216E	Z=111KM	MB=3.6	GS
FEB 22	H0= 13:40:48.9	LAT=45.646N RUMANIA	LON= 26.305E	Z=149KM	MB=4.2	GS

FEB 23	H0= 1:28:45.5	LAT=38.062N GREECE	LON= 21.774E	Z= 44KM	MB=4.4	GS
FEB 23	H0= 20:55:19.1	LAT=38.346N GREECE	LON= 20.216E	Z= 33KM	MB=4.4	GS
FEB 25	H0= 18:10:56.7	LAT=51.298N UNITED KINGDOM	LON= 2.341W	Z= 33KM		GS
FEB 25	H0= 20: 3:44.1	LAT=51.578N UNITED KINGDOM	LON= 3.039W	Z= 33KM	MB=4.3	GS
FEB 26	H0= 11:13:20.7	LAT=37.239N IONIAN SEA	LON= 20.847E	Z= 33KM	MB=4.4	GS
FEB 26	H0= 14:19:18.3	LAT=35.104N MEDITERRANEAN SEA	LON= 22.923E	Z= 33KM	MB=4.2	GS
FEB 27	H0= 2: 3:13.4	LAT=47.415N SWITZERLAND	LON= 7.564E	Z= 33KM		GS
FEB 27	H0= 8:28:39.9	LAT=41.600N GREECE-BULGARIA BORDER REGION	LON= 23.393E	Z= 21KM	MB=3.4	GS
MAR 01	H0= 3: 6:52.1	LAT=40.591N ALBANIA	LON= 19.928E	Z= 33KM		GS
MAR 03	H0= 21:36:25.0	LAT=34.207N CRETE	LON= 25.484E	Z= 33KM	MB=4.1	GS
MAR 04	H0= 2:17:33.0	LAT=46.021N NORTHERN ITALY	LON= 10.541E	Z= 33KM		GS
MAR 07	H0= 3:50:29.0	LAT=33.917N EASTERN MEDITERRANEAN SEA	LON= 25.542E	Z= 33KM	MB=4.3	GS
MAR 08	H0= 2:33:53.1	LAT=34.781N CRETE	LON= 24.722E	Z= 50KM	MB=4.5	GS
MAR 08	H0= 12:30:16.1	LAT=34.680N CRETE	LON= 24.656E	Z= 33KM	MB=4.3	GS
MAR 09	H0= 3:52: 7.1	LAT=34.640N CRETE	LON= 24.891E	Z= 57KM	MB=4.2	GS
MAR 09	H0= 4:12: 7.7	LAT=34.631N CRETE	LON= 25.054E	Z= 54KM	MB=4.6	GS
MAR 10	H0= 21:51: 2.5	LAT=40.754N GREECE	LON= 21.161E	Z= 17KM	MB=4.1	GS
MAR 11	H0= 5:25:32.1	LAT=40.397N PORTUGAL	LON= 7.730W	Z= 33KM		GS
MAR 11	H0= 12:31:42.9	LAT=30.420N MOROCCO	LON= 9.999W	Z= 33KM		GS
MAR 12	H0= 18:21:33.9	LAT=36.820N DODECANESE ISLANDS	LON= 26.326E	Z= 39KM	MB=4.7	GS

MAR 13	H0= 3:17:40.0	LAT=44.112N FRANCE	LON= 5.278E	Z= 33KM		GS
MAR 13	H0= 17:20:45.5	LAT=34.651N CRETE	LON= 24.831E	Z= 51KM	MB=4.6	GS
MAR 14	H0= 20:57:34.4	LAT=41.853N ALBANIA	LON= 19.383E	Z= 33KM	MB=4.3	GS
MAR 19	H0= 17: 7:20.1	LAT=34.065N CRETE	LON= 25.979E	Z= 33KM	MB=4.1	GS
MAR 20	H0= 23:38:51.6	LAT=37.227N SOUTHERN GREECE	LON= 21.697E	Z=111KM	MB=3.9	GS
MAR 22	H0= 17: 2:20.8	LAT=40.681N GREECE-ALBANIA BORDER REGION	LON= 20.489E	Z= 33KM	MB=4.7	GS
MAR 25	H0= 13:44:43.8	LAT=34.916N MOROCCO	LON= 4.501W	Z= 33KM		GS
MAR 26	H0= 6:56:27.2	LAT=38.826N GREECE	LON= 23.400E	Z=105KM	MB=3.1	GS
MAR 28	H0= 21:32:35.3	LAT=37.145N SICILY	LON= 14.987E	Z= 33KM	MB=4.6	GS
APR 01	H0= 0:22:39.8	LAT=35.562N MEDITERRANEAN SEA	LON= 22.439E	Z= 67KM	MB=4.4	GS
APR 04	H0= 10:26: 7.8	LAT=46.080N RUMANIA	LON= 27.447E	Z= 33KM		GS
APR 07	H0= 0:56:55.7	LAT=36.542N ALGERIA	LON= 4.410E	Z= 33KM	MB=4.2	GS
APR 07	H0= 3:57:49.8	LAT=39.030N TURKEY	LON= 27.862E	Z= 11KM		GS
APR 07	H0= 14:22:47.1	LAT=34.750N CRETE	LON= 24.699E	Z= 29KM	MB=4.7	GS
APR 08	H0= 0: 9:42.1	LAT=40.566N ALBANIA	LON= 19.827E	Z= 19KM	MB=3.2	GS
APR 09	H0= 0:31: 9.0	LAT=39.435N GREECE-ALBANIA BORDER REGION	LON= 20.238E	Z= 44KM	MB=3.1	GS
APR 10	H0= 19:44:38.5	LAT=34.278N MEDITERRANEAN SEA	LON= 22.809E	Z= 33KM	MB=3.8	GS
APR 11	H0= 19:34:34.4	LAT=44.932N NORTHERN ITALY	LON= 8.246E	Z= 33KM		GS
APR 12	H0= 20:21: 7.2	LAT=35.553N CRETE	LON= 23.232E	Z=101KM	MB=3.7	GS
APR 14	H0= 11:29:31.3	LAT=34.420N CRETE	LON= 25.634E	Z= 2KM	MB=4.2	GS

APR 14	H0= 12: 2:25.3	LAT=36.377N LON= 27.064E Z= 45KM MB=4.0	GS
DODECANESE ISLANDS			
APR 15	H0= 21:49:13.6	LAT=44.532N LON= 9.850E Z= 33KM MB=4.5	GS
NORTHERN ITALY			
APR 17	H0= 1:31:33.9	LAT=45.972N LON= 21.141E Z= 33KM MB=5.6	GS
RUMANIA			
APR 18	H0= 10:15:45.2	LAT=34.381N LON= 24.336E Z= 33KM MB=4.1	GS
CRETE			
APR 22	H0= 3:20:13.5	LAT=34.876N LON= 27.679E Z= 65KM MB=4.4	GS
EASTERN MEDITERRANEAN SEA			
APR 22	H0= 17:58:36.0	LAT=38.438N LON= 22.247E Z= 66KM MB=4.0	GS
GREECE			
APR 26	H0= 7:21:14.2	LAT=47.672N LON= 7.104E Z= 33KM	GS
SWITZERLAND			
APR 26	H0= 7:25: 6.7	LAT=47.118N LON= 7.890E Z= 33KM	GS
SWITZERLAND			
APR 28	H0= 0:55:32.8	LAT=36.269N LON= 31.854E Z= 33KM MB=4.2	GS
TURKEY			
APR 28	H0= 12:52:50.3	LAT=68.680N LON= 16.231E Z= 33KM MB=4.9	GS
NORTHERN NORWAY			
APR 28	H0= 16:29:31.4	LAT=34.184N LON= 24.550E Z= 33KM MB=4.3	GS
CRETE			
MAY 04	H0= 15:14:11.9	LAT=34.807N LON= 5.051E Z= 33KM MB=4.3	GS
ALGERIA			
MAY 05	H0= 6: 9:19.2	LAT=34.996N LON= 4.576E Z= 30KM MB=4.1	GS
ALGERIA			
MAY 06	H0= 7:50:22.1	LAT=46.336N LON= 13.403E Z= 54KM	GS
AUSTRIA			
MAY 09	H0= 17: 2:21.7	LAT=36.602N LON= 27.638E Z= 33KM MB=4.5	GS
DODECANESE ISLANDS			
MAY 12	H0= 0:20:56.9	LAT=36.663N LON= 27.033E Z=156KM MB=4.5	GS
DODECANESE ISLANDS			
MAY 12	H0= 19:48:13.3	LAT=48.269N LON= 9.102E Z= 12KM	GS
GERMANY			
MAY 16	H0= 2:28:37.2	LAT=35.040N LON= 32.074E Z= 33KM	GS
CYPRUS			
MAY 16	H0= 15: 7:26.5	LAT=36.153N LON= 27.400E Z= 33KM MB=4.1	GS
DODECANESE ISLANDS			
MAY 19	H0= 13:20:17.3	LAT=45.630N LON= 10.276E Z= 33KM	GS
NORTHERN ITALY			

MAY 19	H0= 22: 1: 9.4	LAT=35.486N LON= 26.333E Z= 83KM MB=4.9	GS
CRETE			
MAY 20	H0= 4:19:25.2	LAT=49.832N LON= 7.700E Z= 25KM	GS
GERMANY			
MAY 21	H0= 7:42:35.7	LAT=47.686N LON= 7.688E Z= 33KM	GS
SWITZERLAND			
MAY 22	H0= 7:40:15.2	LAT=37.623N LON= 21.545E Z=129KM MB=3.9	GS
SOUTHERN GREECE			
MAY 23	H0= 19:51:30.0	LAT=43.377N LON= 17.067E Z= 33KM MB=4.7	GS
YUGOSLAVIA			
MAY 25	H0= 12: 2:29.0	LAT=35.612N LON= 9.882W Z= 33KM	GS
WEST OF GIBRALTAR			
MAY 26	H0= 13: 6:53.3	LAT=37.518N LON= 21.128E Z= 57KM MB=4.2	GS
SOUTHERN GREECE			
MAY 30	H0= 15:39:40.7	LAT=39.344N LON= 24.862E Z= 38KM MB=4.2	GS
AEGEAN SEA			
JUN 01	H0= 1:45:35.4	LAT=38.473N LON= 27.087E Z= 33KM	GS
TURKEY			
JUN 01	H0= 16: 7: 8.4	LAT=36.178N LON= 22.490E Z= 39KM MB=4.5	GS
SOUTHERN GREECE			
JUN 07	H0= 14:46:30.3	LAT=39.065N LON= 20.402E Z= 35KM MB=4.2	GS
GREECE-ALBANIA BORDER REGION			
JUN 10	H0= 4:23:28.6	LAT=33.611N LON= 3.790W Z= 39KM MB=4.3	GS
MOROCCO			
JUN 10	H0= 5:11: .3	LAT=45.645N LON= 26.460E Z=167KM MB=4.2	GS
RUMANIA			
JUN 11	H0= 2: 6:33.9	LAT=34.630N LON= 28.505E Z= 43KM MB=4.1	GS
EASTERN MEDITERRANEAN SEA			
JUN 13	H0= 4:20: 6.2	LAT=36.877N LON= 4.077W Z= 51KM MB=4.1	GS
STRAIT OF GIBRALTAR			
JUN 15	H0= 17:41:41.0	LAT=46.104N LON= 7.051E Z= 33KM	GS
SWITZERLAND			
JUN 16	H0= 9: 4:21.0	LAT=39.342N LON= 24.314E Z= 33KM MB=3.7	GS
AEGEAN SEA			
JUN 17	H0= 19:25:52.8	LAT=38.697N LON= 17.768E Z= 33KM MB=3.8	GS
SOUTHERN ITALY			
JUN 18	H0= 8:26:12.9	LAT=38.543N LON= 20.416E Z= 33KM MB=4.8	GS
GREECE			
JUN 20	H0= 9:28:33.4	LAT=44.352N LON= 17.714E Z= 33KM MB=5.1	GS
YUGOSLAVIA			

JUN 20	H0= 17: 8:27.3	LAT=45.965N YUGOSLAVIA	LON= 15.529E	Z= 47KM	MB=4.5	GS
JUN 20	H0= 22:26:31.8	LAT=46.085N YUGOSLAVIA	LON= 15.479E	Z= 33KM	MB=4.4	GS
JUN 22	H0= 23:30:15.0	LAT=41.262N GREECE-BULGARIA BORDER REGION	LON= 23.032E	Z= 33KM	MB=5.1	GS
JUN 25	H0= 22:23:46.2	LAT=64.602N ICELAND	LON= 17.651W	Z= 33KM	MB=5.1	GS
JUN 26	H0= 14:24:37.7	LAT=36.595N TURKEY	LON= 34.439E	Z= 33KM	MB=4.0	GS
JUN 28	H0= 5:29:39.5	LAT=51.581N GERMANY	LON= 7.789E	Z= 1KM		GS
JUN 28	H0= 11: 9:40.2	LAT=36.586N ALGERIA	LON= 5.271E	Z= 33KM	MB=5.0	GS
JUN 28	H0= 23:54:39.6	LAT=39.463N TURKEY	LON= 28.268E	Z= 21KM		GS
JUN 29	H0= 1: 6:58.6	LAT=36.669N ALGERIA	LON= 5.190E	Z= 33KM	MB=4.7	GS
JUN 29	H0= 22:32: .7	LAT=39.650N SOUTHERN ITALY	LON= 18.658E	Z= 33KM	MB=4.0	GS
JUN 30	H0= 19: 5:23.8	LAT=44.145N NORTHERN ITALY	LON= 10.678E	Z= 33KM	MB=4.3	GS
JUL 01	H0= 1:26:38.0	LAT=49.417N GERMANY	LON= 6.033E	Z= 0KM	MB=4.3	GS
JUL 09	H0= 2:32:17.6	LAT=36.652N DODECANESE ISLANDS	LON= 28.449E	Z= 69KM	MB=5.0	GS
JUL 10	H0= 12:15: 5.9	LAT=36.136N DODECANESE ISLANDS	LON= 28.290E	Z= 45KM	MB=3.9	GS
JUL 10	H0= 19:34:52.7	LAT=36.924N SOUTHERN GREECE	LON= 23.018E	Z= 61KM	MB=4.0	GS
JUL 13	H0= 15:57:25.2	LAT=35.969N ALGERIA	LON= 4.785E	Z= 37KM	MB=4.8	GS
JUL 14	H0= 2:55:26.7	LAT=35.591N STRAIT OF GIBRALTAR	LON= 3.735W	Z= 31KM	MB=4.4	GS
JUL 14	H0= 11:21: 9.4	LAT=37.049N SOUTHERN GREECE	LON= 21.141E	Z= 41KM	MB=4.2	GS
JUL 14	H0= 20:17:23.1	LAT=38.803N GREECE	LON= 22.048E	Z= 67KM	MB=3.8	GS
JUL 17	H0= 5: 9:23.0	LAT=45.750N RUMANIA	LON= 26.531E	Z=145KM	MB=5.1	GS

JUL 19	H0= 7:40:23.3	LAT=35.734N CYPRUS	LON= 31.557E	Z= 65KM	MB=4.2	GS
JUL 20	H0= 18:21: 9.9	LAT=39.063N GREECE	LON= 21.468E	Z= 43KM	MB=3.3	GS
JUL 20	H0= 23:56:36.3	LAT=37.037N TURKEY	LON= 27.522E	Z= 33KM	MB=3.9	GS
JUL 21	H0= 5:24:22.2	LAT=40.116N ALBANIA	LON= 19.740E	Z= 33KM	MB=4.3	GS
JUL 22	H0= 7:19:34.1	LAT=39.362N SOUTHERN ITALY	LON= 15.441E	Z=271KM	MB=4.7	GS
JUL 24	H0= 0:23:24.6	LAT=48.528N GERMANY	LON= 9.029E	Z= 31KM		GS
JUL 25	H0= 1: 1:37.6	LAT=45.366N YUGOSLAVIA	LON= 16.108E	Z= 33KM		GS
JUL 25	H0= 19:10:58.3	LAT=50.981N GERMANY	LON= 6.411E	Z= 8KM		GS
JUL 25	H0= 21:16: 2.9	LAT=38.704N GREECE	LON= 23.937E	Z= 33KM	MB=3.0	GS
JUL 26	H0= 11:29:14.6	LAT=43.624N YUGOSLAVIA	LON= 22.014E	Z= 33KM	MB=3.8	GS
AUG 02	H0= 10:30:14.4	LAT=35.566N CRETE	LON= 26.705E	Z= 50KM	MB=4.3	GS
AUG 09	H0= 22:19: 4.0	LAT=51.500N GERMANY	LON= 7.100E	Z= 0KM		GS
AUG 10	H0= 12:49:38.0	LAT=57.147N UNITED KINGDOM	LON= 5.210W	Z= 10KM	MB=4.3	GS
AUG 14	H0= 16: 5:19.4	LAT=35.458N CRETE	LON= 23.067E	Z= 60KM	MB=4.2	GS
AUG 15	H0= 17:16:19.6	LAT=46.450N SWITZERLAND	LON= 7.487E	Z= 33KM		GS
AUG 20	H0= 23:52:40.1	LAT=38.243N GREECE	LON= 20.776E	Z= 53KM	MB=4.5	GS
AUG 21	H0= 12:20:15.0	LAT=41.752N YUGOSLAVIA	LON= 22.821E	Z= 74KM		GS
AUG 21	H0= 13: 2:46.2	LAT=37.239N IONIAN SEA	LON= 19.610E	Z= 33KM	MB=4.1	GS
AUG 24	H0= 10:20:20.5	LAT=37.753N SOUTHERN GREECE	LON= 21.172E	Z= 33KM	MB=4.2	GS
AUG 24	H0= 22: 8:38.6	LAT=37.893N IONIAN SEA	LON= 19.640E	Z= 11KM	MB=4.1	GS

AUG 25	H0= 5:56:36.9	LAT=37.719N IONIAN SEA	LON= 20.078E Z= 9KM MB=3.9	GS
AUG 25	H0= 13:31:23.4	LAT=38.342N GREECE	LON= 19.971E Z= 33KM MB=4.0	GS
AUG 25	H0= 19:43:11.5	LAT=38.429N IONIAN SEA	LON= 19.778E Z= 33KM MB=4.1	GS
AUG 25	H0= 20:15:51.1	LAT=40.518N AEGEAN SEA	LON= 24.397E Z= 33KM MB=2.7	GS
AUG 26	H0= 1:51:28.8	LAT=40.530N AEGEAN SEA	LON= 24.263E Z= 33KM	GS
AUG 26	H0= 7:16:30.7	LAT=40.772N AEGEAN SEA	LON= 24.719E Z= 41KM MB=3.3	GS
AUG 26	H0= 18: 9:55.9	LAT=35.254N MEDITERRANEAN SEA	LON= 22.270E Z= 33KM MB=3.8	GS
AUG 27	H0= 18:26:23.1	LAT=42.056N BLACK SEA	LON= 32.783E Z= 33KM MB=3.0	GS
AUG 28	H0= 3: 4:56.6	LAT=40.379N AEGEAN SEA	LON= 25.880E Z= 15KM	GS
AUG 28	H0= 18:46:24.8	LAT=40.438N AEGEAN SEA	LON= 25.931E Z= 33KM MB=3.0	GS
AUG 29	H0= 8: 2:29.6	LAT=38.830N TURKEY	LON= 29.268E Z= 18KM MB=4.2	GS
AUG 29	H0= 23:58:44.2	LAT=40.352N AEGEAN SEA	LON= 25.827E Z= 33KM	GS
AUG 30	H0= 0:13:37.1	LAT=38.614N GREECE	LON= 23.858E Z= 15KM MB=3.7	GS
AUG 30	H0= 4:29: 2.6	LAT=48.079N GERMANY	LON= 9.212E Z= 5KM	GS
AUG 30	H0= 17:42:59.4	LAT=44.174N YUGOSLAVIA	LON= 20.371E Z= 33KM	GS
SEP 04	H0= 6:29:16.4	LAT=33.134N MEDITERRANEAN SEA	LON= 13.567E Z= 17KM MB=5.1	GS
SEP 05	H0= 7:10:25.9	LAT=47.468N SWITZERLAND	LON= 7.583E Z= 33KM	GS
SEP 05	H0= 11:34:36.1	LAT=35.685N CRETE	LON= 25.050E Z= 53KM MB=4.2	GS
SEP 07	H0= 8:33:18.8	LAT=39.662N TURKEY	LON= 28.600E Z= 17KM MB=3.8	GS
SEP 08	H0= 8: 4: 6.1	LAT=37.022N SOUTHERN GREECE	LON= 21.215E Z= 44KM MB=4.3	GS

SEP 08	H0= 12:41: 5.5	LAT=40.190N TURKEY	LON= 27.831E Z= 11KM	GS
SEP 08	H0= 12:57:31.5	LAT=43.541N NEAR SOUTH COAST OF FRANCE	LON= 7.353E Z= 28KM	GS
SEP 08	H0= 19:10: .2	LAT=39.863N AEGEAN SEA	LON= 24.453E Z= 33KM MB=4.3	GS
SEP 08	H0= 22:48:41.8	LAT=39.448N TURKEY	LON= 29.143E Z= 8KM	GS
SEP 09	H0= 12:50:15.3	LAT=46.223N NORTHERN ITALY	LON= 12.565E Z= 33KM	GS
SEP 09	H0= 22:56:17.1	LAT=41.799N YUGOSLAVIA	LON= 21.972E Z= 24KM MB=3.9	GS
SEP 10	H0= 0:25:33.1	LAT=37.827N IONIAN SEA	LON= 19.821E Z= 33KM MB=3.9	GS
SEP 11	H0= 5:12:57.0	LAT=40.086N ALBANIA	LON= 19.696E Z= 51KM MB=4.4	GS
SEP 13	H0= 12:10: 2.5	LAT=40.791N TURKEY	LON= 28.174E Z= 15KM MB=3.6	GS
SEP 13	H0= 18:24:59.2	LAT=40.519N GREECE	LON= 23.429E Z= 24KM MB=4.5	GS
SEP 14	H0= 1:18:18.3	LAT=40.443N AEGEAN SEA	LON= 25.862E Z= 33KM	GS
SEP 14	H0= 6:48:46.4	LAT=43.338N CORSICA	LON= 8.172E Z= 17KM MB=4.1	GS
SEP 15	H0= 0:37:20.6	LAT=35.835N MEDITERRANEAN SEA	LON= 22.301E Z=105KM	GS
SEP 16	H0= 2:10:35.0	LAT=39.186N AEGEAN SEA	LON= 23.515E Z= 24KM MB=3.8	GS
SEP 16	H0= 22:22:40.4	LAT=38.538N SICILY	LON= 15.517E Z=100KM	GS
SEP 17	H0= 4:18:12.2	LAT=40.336N GREECE-ALBANIA BORDER REGION	LON= 20.628E Z= 47KM MB=4.4	GS
SEP 17	H0= 5:10:31.5	LAT=40.294N GREECE-ALBANIA BORDER REGION	LON= 20.639E Z= 17KM MB=5.2	GS
SEP 18	H0= 5:20:40.8	LAT=34.482N CRETE	LON= 24.259E Z= 20KM MB=4.2	GS
SEP 18	H0= 9: 7: 2.8	LAT=40.240N GREECE-ALBANIA BORDER REGION	LON= 20.622E Z= 10KM MB=4.7	GS
SEP 23	H0= 15:57:28.0	LAT=37.599N SOUTHERN GREECE	LON= 21.201E Z= 49KM MB=4.2	GS

SEP 28	H0= 1:35: .5	LAT=34.965N CRETE	LON= 23.969E	Z= 51KM	MB=4.5	GS
SEP 28	H0= 12:31:56.4	LAT=39.768N AEGEAN SEA	LON= 24.544E	Z= 33KM		GS
SEP 29	H0= 6:35:34.4	LAT=35.503N DODECANESE ISLANDS	LON= 27.883E	Z= 56KM	MB=4.6	GS
SEP 29	H0= 17:50:20.9	LAT=39.836N GREECE-ALBANIA BORDER REGION	LON= 19.459E	Z= 33KM	MB=3.9	GS
SEP 29	H0= 23:34:57.3	LAT=35.088N TUNISIA	LON= 9.605E	Z= 33KM	MB=4.5	GS
OCT 01	H0= 0:34:40.2	LAT=39.690N SOUTHERN ITALY	LON= 18.774E	Z= 22KM	MB=3.9	GS
OCT 03	H0= 21:32:39.3	LAT=35.210N DODECANESE ISLANDS	LON= 27.193E	Z= 51KM		GS
OCT 07	H0= 11:43:36.9	LAT=39.734N SOUTHERN ITALY	LON= 18.847E	Z= 19KM	MB=4.6	GS
OCT 09	H0= 18:20:43.4	LAT=37.573N IONIAN SEA	LON= 20.811E	Z= 40KM	MB=4.0	GS
OCT 10	H0= 4: 3:27.4	LAT=47.855N AUSTRIA	LON= 12.282E	Z= 33KM		GS
OCT 12	H0= 0:11:13.9	LAT=39.495N AEGEAN SEA	LON= 25.162E	Z= 33KM		GS
OCT 13	H0= 0:20:23.9	LAT=34.177N CRETE	LON= 26.159E	Z= 33KM	MB=4.2	GS
OCT 14	H0= 4:11:16.3	LAT=43.722N YUGOSLAVIA	LON= 17.580E	Z= 33KM	MB=4.2	GS
OCT 15	H0= 9:56:52.4	LAT=40.734N GREECE	LON= 22.981E	Z= 33KM	MB=4.2	GS
OCT 16	H0= 3:42: 8.6	LAT=48.288N GERMANY	LON= 9.121E	Z= 21KM		GS
OCT 20	H0= 11:25:55.3	LAT=39.697N SOUTHERN ITALY	LON= 18.891E	Z= 33KM	MB=4.9	GS
OCT 21	H0= 14:49:29.4	LAT=39.727N SOUTHERN ITALY	LON= 15.052E	Z=317KM	MB=4.0	GS
OCT 22	H0= 7:29: 4.6	LAT=39.645N SOUTHERN ITALY	LON= 18.844E	Z= 33KM	MB=4.3	GS
OCT 25	H0= 11:43:35.6	LAT=34.646N CRETE	LON= 23.420E	Z= 43KM	MB=4.9	GS
OCT 25	H0= 12:53:48.5	LAT=38.753N AEGEAN SEA	LON= 26.568E	Z= 33KM		GS

OCT 27	H0= 8:52:20.4	LAT=34.273N CRETE	LON= 25.138E	Z= 70KM	MB=4.4	GS
OCT 29	H0= 1: 5:15.5	LAT=44.625N YUGOSLAVIA	LON= 18.414E	Z= 33KM	MB=5.1	GS
OCT 31	H0= 7:15:41.4	LAT=43.246N PYRENEES	LON= .884W	Z= 33KM	MB=3.8	GS
OCT 31	H0= 22:23:22.7	LAT=44.643N YUGOSLAVIA	LON= 18.353E	Z= 33KM	MB=4.0	GS
NOV 03	H0= 22:59:18.3	LAT=44.393N NORTHERN ITALY	LON= 12.223E	Z= 22KM		GS
NOV 04	H0= 2:57:33.1	LAT=38.371N AEGEAN SEA	LON= 25.722E	Z= 33KM	MB=4.1	GS
NOV 05	H0= 7: 0:41.6	LAT=39.190N TURKEY	LON= 29.193E	Z= 33KM	MB=3.9	GS
NOV 06	H0= 12:28:20.1	LAT=49.834N GERMANY	LON= 7.882E	Z= 8KM		GS
NOV 09	H0= 6: 0:44.9	LAT=38.955N GREECE-ALBANIA BORDER REGION	LON= 20.264E	Z= 23KM	MB=4.8	GS
NOV 09	H0= 7:14:25.2	LAT=69.492N NORWEGIAN SEA	LON= 9.980E	Z= 33KM		GS
NOV 09	H0= 12:15: 7.0	LAT=36.382N ALGERIA	LON= 5.297E	Z= 33KM	MB=4.1	GS
NOV 12	H0= 2:58:40.0	LAT=48.342N FRANCE	LON= 6.773E	Z= 36KM		GS
NOV 14	H0= 2:13:49.5	LAT=39.070N GREECE-ALBANIA BORDER REGION	LON= 20.701E	Z= 45KM	MB=3.6	GS
NOV 14	H0= 12:41:27.9	LAT=38.571N GREECE	LON= 23.194E	Z= 12KM	MB=4.1	GS
NOV 14	H0= 13:22:33.1	LAT=38.518N GREECE	LON= 23.123E	Z= 19KM	MB=5.0	GS
NOV 14	H0= 14:26:45.8	LAT=38.530N GREECE	LON= 22.991E	Z= 3KM	MB=5.1	GS
NOV 14	H0= 15:29:44.8	LAT=38.486N GREECE	LON= 23.091E	Z= 24KM	MB=5.0	GS
NOV 14	H0= 17: 9:24.3	LAT=48.314N GERMANY	LON= 9.116E	Z= 15KM		GS
NOV 14	H0= 22: 1:13.3	LAT=38.652N GREECE	LON= 23.087E	Z= 11KM	MB=4.0	GS
NOV 20	H0= 8:42: 7.4	LAT=46.992N AUSTRIA	LON= 11.311E	Z= 33KM		GS

NOV 20	H0= 15:10:54.9	LAT=45.767N LON= 12.258E Z= 33KM	GS
		NORTHERN ITALY	
NOV 20	H0= 19:33: 2.4	LAT=45.767N LON= 12.193E Z= 25KM	GS
		NORTHERN ITALY	
NOV 23	H0= 7:52:28.9	LAT=39.925N LON= 18.908E Z= 33KM MB=4.4	GS
		SOUTHERN ITALY	
NOV 23	H0= 18:46:33.4	LAT=39.707N LON= 19.075E Z= 33KM MB=4.7	GS
		GREECE-ALBANIA BORDER REGION	
NOV 23	H0= 21:47:33.9	LAT=37.721N LON= 31.952E Z= 33KM MB=4.3	GS
		TURKEY	
NOV 25	H0= 23:54:38.3	LAT=38.927N LON= 27.811E Z= 8KM	GS
		TURKEY	
NOV 27	H0= 12:56: 9.6	LAT=47.046N LON= 10.445E Z= 33KM	GS
		AUSTRIA	
DEC 01	H0= 6:21:18.1	LAT=38.510N LON= 23.236E Z= 33KM MB=4.2	GS
		GREECE	
DEC 01	H0= 12: 9:28.8	LAT=39.520N LON= 26.198E Z= 36KM MB=4.5	GS
		TURKEY	
DEC 02	H0= 1:14:33.8	LAT=42.781N LON= 13.104E Z= 33KM	GS
		CENTRAL ITALY	
DEC 02	H0= 1:55:15.9	LAT=42.988N LON= 12.970E Z= 7KM MB=4.9	GS
		CENTRAL ITALY	
DEC 02	H0= 14:15:45.0	LAT=41.235N LON= 23.452E Z= 43KM MB=4.2	GS
		GREECE-BULGARIA BORDER REGION	
DEC 02	H0= 23: 2:16.4	LAT=38.478N LON= 22.185E Z= 16KM MB=4.7	GS
		GREECE	
DEC 02	H0= 23: 9:31.6	LAT=38.476N LON= 22.293E Z= 33KM MB=4.0	GS
		GREECE	
DEC 04	H0= 16:14:46.9	LAT=42.654N LON= 13.090E Z= 33KM MB=4.0	GS
		CENTRAL ITALY	
DEC 05	H0= 5:22:10.4	LAT=43.060N LON= 12.630E Z= 33KM MB=4.2	GS
		CENTRAL ITALY	
DEC 05	H0= 7: 7:38.6	LAT=38.328N LON= 25.773E Z= 33KM MB=4.4	GS
		AEGEAN SEA	
DEC 06	H0= 17:49: 3.7	LAT=42.802N LON= 12.897E Z= 33KM MB=4.0	GS
		CENTRAL ITALY	
DEC 08	H0= 5:41:29.9	LAT=38.467N LON= 25.491E Z= 38KM MB=3.8	GS
		AEGEAN SEA	
DEC 09	H0= 12:14:15.8	LAT=48.167N LON= 16.862E Z= 10KM	GS
		AUSTRIA	

DEC 09	H0= 13: 1:40.4	LAT=46.783N LON= 12.823E Z= 33KM	GS
		NORTHERN ITALY	
DEC 10	H0= 8:26:14.4	LAT=38.426N LON= 25.827E Z= 33KM MB=3.3	GS
		AEGEAN SEA	
DEC 11	H0= 16:14: 4.9	LAT=38.284N LON= 25.902E Z= 23KM	GS
		AEGEAN SEA	
DEC 13	H0= 22:49:52.3	LAT=45.739N LON= 12.393E Z= 33KM	GS
		NORTHERN ITALY	
DEC 14	H0= 2:36:38.4	LAT=38.278N LON= 20.751E Z= 33KM MB=5.3	GS
		GREECE	
DEC 14	H0= 21:29:19.8	LAT=38.605N LON= 20.407E Z= 11KM MB=5.0	GS
		GREECE	
DEC 16	H0= 17:19:23.2	LAT=49.715N LON= 6.408E Z= 33KM	GS
		GERMANY	
DEC 16	H0= 17:53:14.3	LAT=49.752N LON= 6.446E Z= 33KM	GS
		GERMANY	
DEC 18	H0= 3:15:58.4	LAT=39.289N LON= 29.239E Z= 8KM	GS
		TURKEY	
DEC 18	H0= 20:12:15.1	LAT=67.845N LON= 10.345E Z= 33KM MB=4.6	GS
		NORWEGIAN SEA	
DEC 18	H0= 21:30:54.0	LAT=39.870N LON= 24.018E Z= 38KM MB=4.5	GS
		AEGEAN SEA	
DEC 18	H0= 21:59:31.4	LAT=39.846N LON= 24.108E Z= 39KM MB=3.7	GS
		AEGEAN SEA	
DEC 20	H0= 5:32:32.7	LAT=39.472N LON= 26.259E Z= 16KM MB=3.4	GS
		TURKEY	
DEC 20	H0= 15: 9:29.0	LAT=39.736N LON= 20.375E Z= 12KM MB=4.8	GS
		GREECE-ALBANIA BORDER REGION	
DEC 20	H0= 16: 2: 4.3	LAT=39.783N LON= 20.473E Z= 33KM MB=4.5	GS
		GREECE-ALBANIA BORDER REGION	
DEC 23	H0= 16:31:24.5	LAT=35.389N LON= 26.075E Z= 33KM MB=4.5	GS
		CRETE	
DEC 24	H0= 10:27:42.8	LAT=37.521N LON= 29.796E Z= 25KM MB=4.6	GS
		TURKEY	
DEC 26	H0= 14: 1:49.2	LAT=34.998N LON= 23.218E Z= 33KM MB=4.4	GS
		CRETE	
DEC 29	H0= 3:50: 6.1	LAT=64.507N LON= 17.625W Z= 33KM MB=5.2	GS
		ICELAND	
DEC 29	H0= 23:24:14.6	LAT=40.190N LON= 25.062E Z= 33KM MB=3.2	GS
		AEGEAN SEA	

Explanation of the map of historical seismicity of Switzerland

by N. PAVONI, ETH Zürich

The map "Erdbebenzentren im Gebiet der Schweiz", reproduced in the Figure, shows the seismicity of Switzerland from the end of the thirteenth century to the year 1971. For the stronger earthquakes it covers a period of nearly 700 years. The map is based on macroseismic data. Therefore the term "center" is used instead of epicenter. The main sources of information were the reports of the Schweizerische Erdbebenkommission (1878-1912), the Annual Reports and the archives of the Schweizerischer Erdbebendienst (since 1913) and the Catalogues and works by G.H.O. VOLGER (1858), A. CANDREIA (1906), F. MONTANDON (1943) and E. WANNER (1932, 1945). A review of the history of seismological research is given by N. PAVONI (1964). The distribution of the "centers" of earthquakes, as shown on the map, is locally influenced by the population density. From 1972 on, all the epicenters are determined instrumentally (see Annual Bulletins of the Schweizerischer Erdbebendienst, D. MAYER-ROSA ed.).

The earthquakes are reproduced as points, open and solid circles. Their location is determined from the distribution of maximum observed intensity. In many cases, it was not possible to assign a well defined epicentral intensity to an event because of insufficient data. For this reason the earthquakes were divided into four categories:

- Cat. A) Earthquakes with heavy damage to buildings (houses destroyed): large solid circles. Epicentral intensity I_0 (according to MSK-Scale, W. SPONHEUER, 1965): $VIII \leq I_0 < X$. The map shows seven events with the year of occurrence.
Period of observation: 1295-1971
- Cat. B) Earthquakes with slight damage to buildings (fall of chimneys, slight cracks in the walls): small solid circles. Epicentral intensity I_0 : $VI \leq I_0 < VIII$.
Period of observation: 1295-1971
- Cat. C) Earthquakes without damage to buildings (felt in areas of more than 100 km², often of several thousand km²): open circles. Epicentral intensity I_0 : $IV \leq I_0 < VI$.
Period of observation: 1855-1971
- Cat. D) Local shocks (felt very weakly and locally): black dots, hatched circles.
Period of observation: 1855-1971
Larger numbers of local shocks of the same locality are summarized in hatched circles.

Contribution No. 160, Institut für Geophysik, ETH-Hönggerberg,
CH-8093 Zürich, Switzerland

The intensities assigned to the different categories are general estimates. Maximum intensities observed in Switzerland are discussed by N. PAVONI (1974). It should be noted that the map represents the earthquakes belonging to two different periods of time: For the stronger earthquakes, Categories A and B, the period of observation is from 1295 to 1971 inclusive. With regard to the stronger earthquakes, the map contains nearly all events which occurred during the last 700 years. For the weaker events, Categories C and D, the record is quite complete but covers only the period from 1855 to 1971. A comprehensive description and discussion of seismicity in Switzerland is in preparation (N. PAVONI, 1977).

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