



Eidgenössische Technische Hochschule Zürich

Institut für Geophysik

Jahresbericht 1973 des Schweizerischen Erdbebendienstes

(Seismological Bulletin) edited by D. Mayer-Rosa



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The Seismological Service of Switzerland (Schweizerischer Erdbebendienst *SED*) is an integral part of the Institute of Geophysics (Institut für Geophysik *IG*) of the Swiss Federal Institute of Technology (Eidgenössische Technische Hochschule) since 1956.

Director of the IG and SED:	Prof.Dr. Stephan Mueller
Supervisor:	Dr. Dieter Mayer-Rosa (SED)
Computer programming:	Manfred Baer, Dipl. Phys. (IG, SED)
Seismogram reading:	Zsombor Somogyi (SED)
Macro seismic readings:	Robert Berger (IG)
Electronic engineering:	Max Dietiker (IG)
Telemetry:	Heinrich Krämer (IG)

Address: Schweiz. Erdbebendienst
ETH-Hönggerberg
Postfach 266
CH-8049 Zürich
Switzerland

Telephone: 01-577800

Telex: 58181 etheb ch

The cooperation with the Observatories in Basel and Neuchâtel is gratefully acknowledged.

The SED is also indebted to the power-stations of Tierfehd-Limmernboden and Grande Dixence for maintenance of the Stations LIN and DIX, respectively.

Thank is due to the following institutions for data exchange and special services: Seismologisches Zentralobservatorium in Erlangen (FRG), Geophysical Institute of the University of Karlsruhe (FRG), Landes-Erdbebendienst in Stuttgart (FRG) and "Institut de Physique du Globe" in Strasbourg (France).

The following international Data Centers have been supplied with data by the SED during the period of 1973:

- National Oceanic and Atmospheric Administration, Earthquake Research Laboratory, Boulder, Colorado, U.S.A. via: Seismologisches Zentralobservatorium, Erlangen, F.R.G.
- International Seismological Centre, Edinburgh, U.K.
- Bureau Central International de Seismologie, Strasbourg, France

During 1973 a total of 7 seismic stations has been operated in Switzerland. Station EMO was installed in September 1973 in order to survey the seismic activity at Lake Emosson in southwestern Switzerland. The stations LIN and DIX are also situated near great dam sites in the Alps. The station BAS is operated by the Observatorium der Abt. Meteorologie der Stadt Basel, Venusstr. 7, CH-4102 Binningen. The station NEU is operated by the Observatoire Cantonal de Neuchâtel, Rue de l'Observatoire 58, Ch-2000 Neuchâtel.

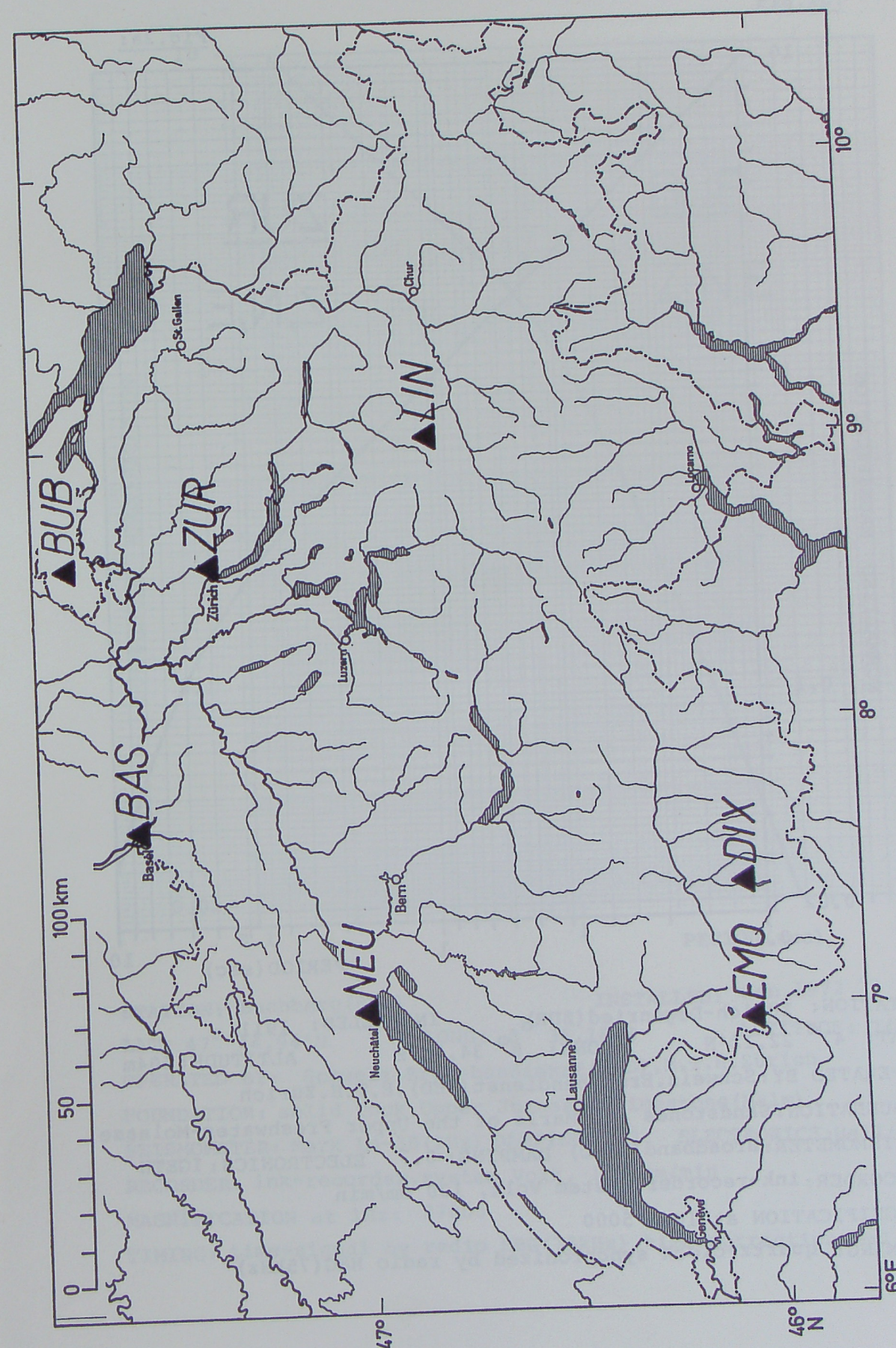
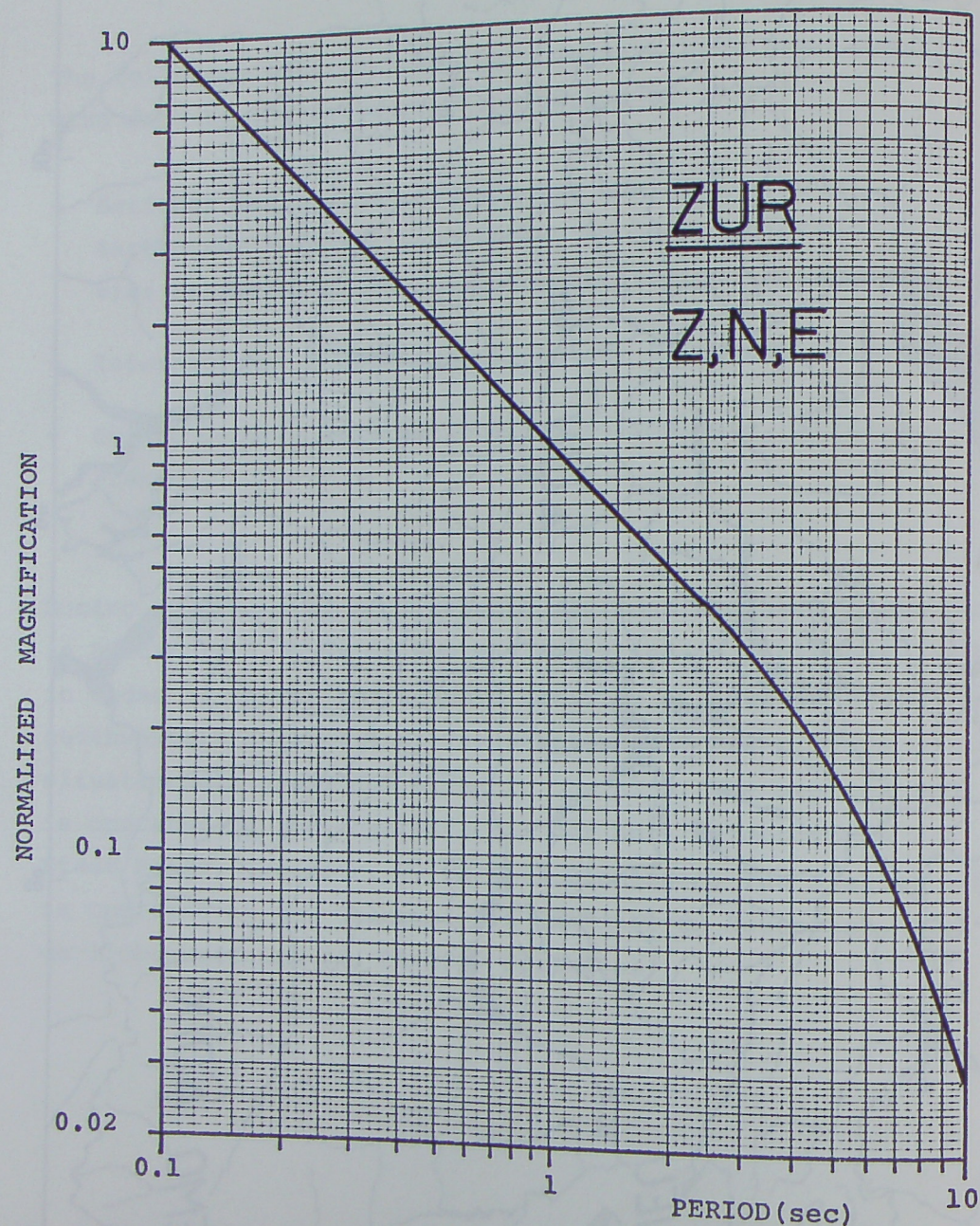


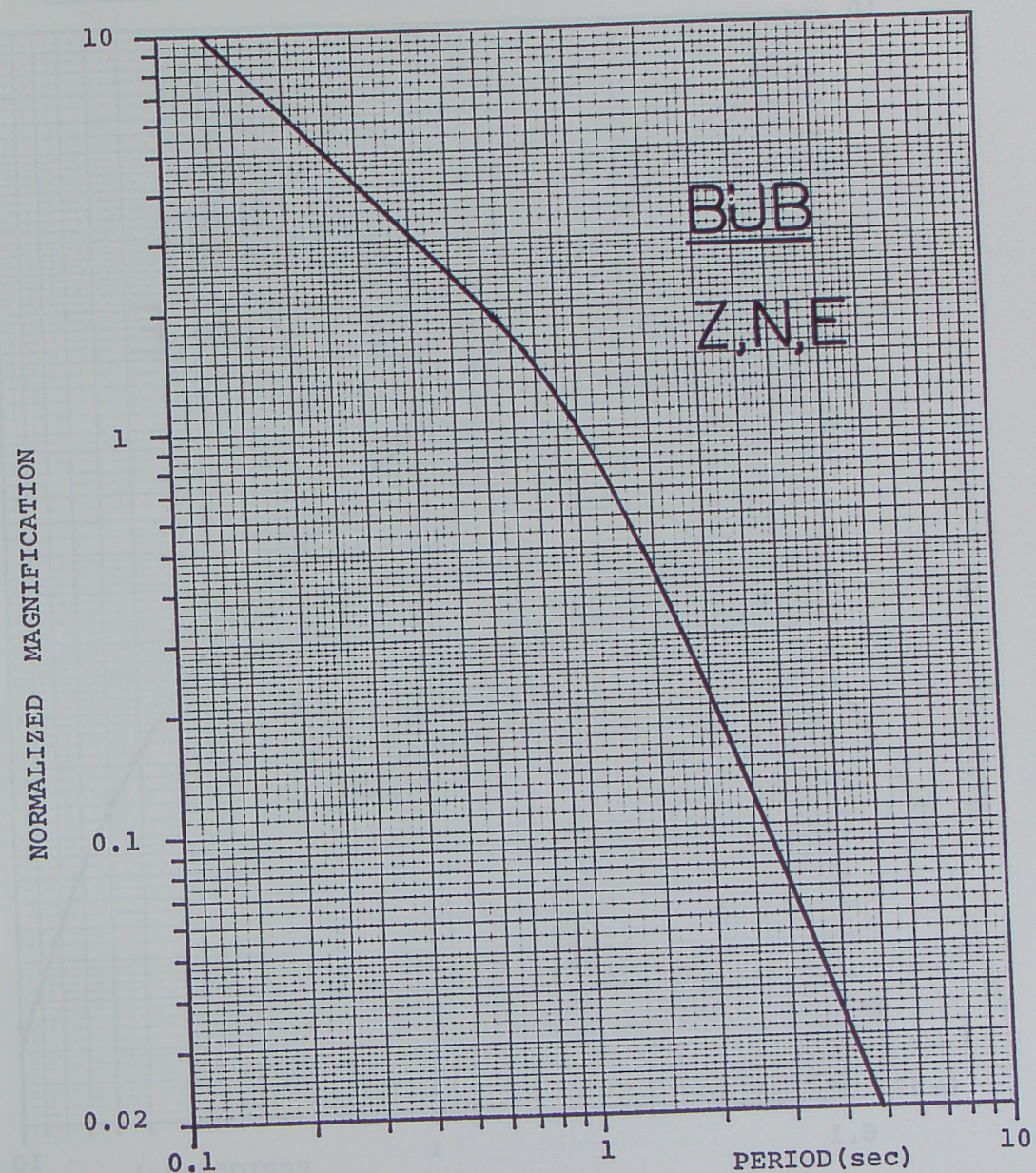
Fig.1: Seismic stations in Switzerland (1973)

Fig.2a:



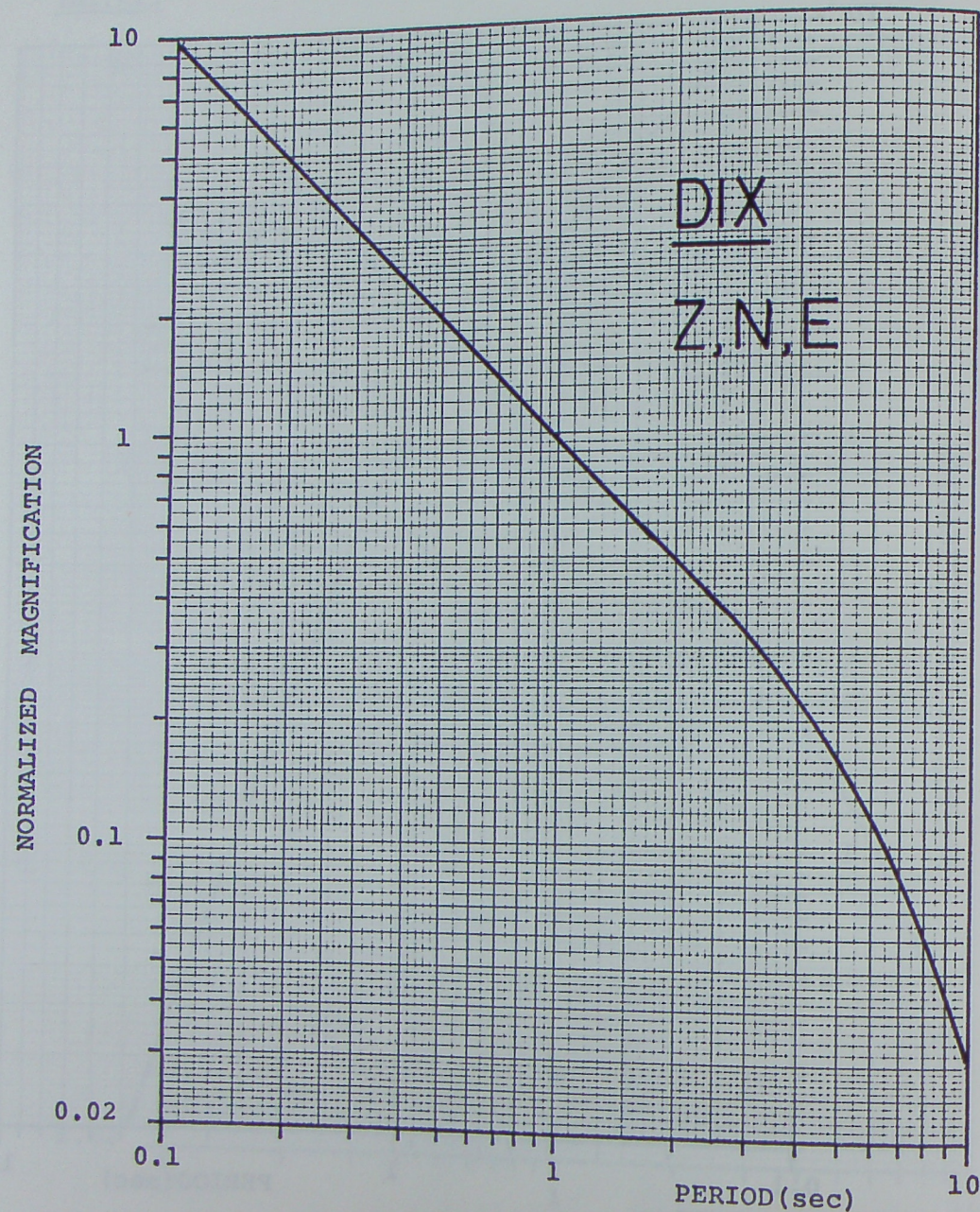
STATION: Zürich-Degenried(ZUR) INSTALLED: 1911
 LAT: 47° 22.12'N LONG: 8° 34.83'E ALTITUDE: 604m
 OPERATED BY: Schweiz.Erdbebendienst (SED), E.T.H.Zürich
 FOUNDATION: Sandstones and Marls of the Upper Freshwater-Molasse
 SEISMOMETER: Broadband(5sec) DAMPING: 0.7 ELECTRONICS: IGETH
 RECORDER: ink-recorder, system Volk, 120 mm/min
 MAGNIFICATION at 1Hz: 5000
 TIMING: quartz-clock synchronized by radio HBG(75kHz)

Fig.2b:



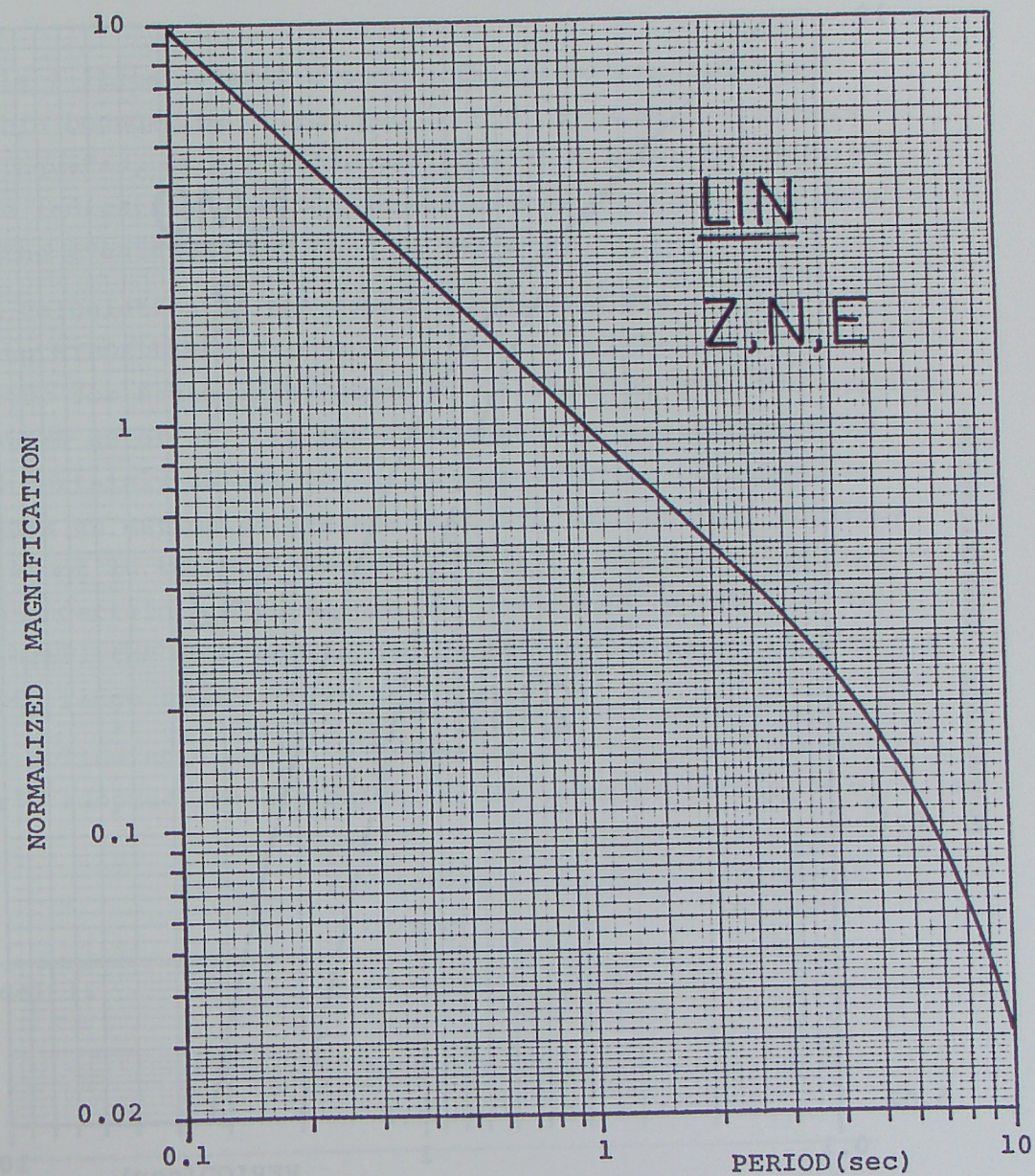
STATION: Buchberg(BUB) INSTALLED: Jan.1972
 LAT: 47° 44.94'N LONG: 8° 36.18'E ALTITUDE: 740m
 OPERATED BY: Schweiz.Erdbebendienst (SED), E.T.H.Zürich
 FOUNDATION: solid rock, Upper Jurassic Limestone(Malm)
 SEISMOMETER: Mark L4-3D(1Hz) DAMPING: 0.7 ELECTRONICS: Hellige
 RECORDER: ink-recorder, system Volk, 120 mm/min
 MAGNIFICATION at 1Hz: 27000
 TIMING: time-signal by radio HBG(75kHz), time-correction = -0.2sec

Fig.2c:

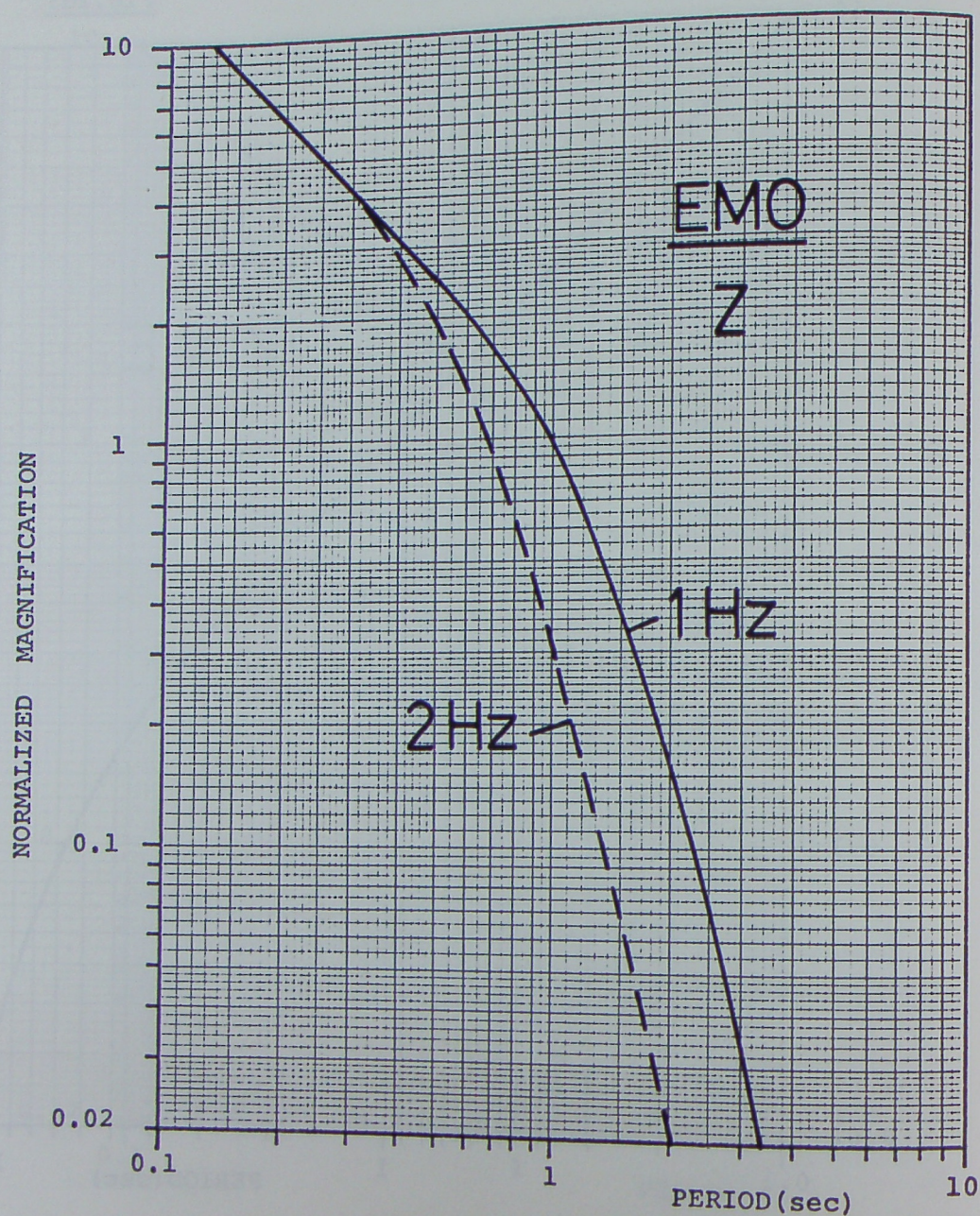


STATION: Grande Dixence (DIX) INSTALLED: Nov.1970
 LAT: 46° 04.83'N LONG: 7° 24.65'E ALTITUDE: 2400m
 OPERATED BY: Schweiz.Erdbebendienst (SED), E.T.H.Zürich
 FOUNDATION: solid rock, Casanna-Schists
 SEISMOMETER: Broadband (5sec) DAMPING: 0.7 ELECTRONICS: IGETH
 RECORDER: 35mm scratch-film
 MAGNIFICATION at 1Hz: 5000
 TIMING: quartz-clock, synchronized by radio HBG (75kHz)

Fig.2d:



STATION: Linth-Limmern (LIN) INSTALLED: Nov.1971
 LAT: 46° 52.14'N LONG: 8° 59.82'E ALTITUDE: 1900m
 OPERATED BY: Schweiz.Erdbebendienst (SED), E.T.H.Zürich
 FOUNDATION: solid rock, Upper Jurassic Limestone (Malm)
 SEISMOMETER: Broadband (5sec) DAMPING: 0.7 ELECTRONICS: IGETH
 RECORDER: 35mm scratch-film,
 MAGNIFICATION at 1Hz: 5000
 TIMING: time-signal by radio HBG (75kHz) $t_{corr.} = 0.2s$



STATION: Emosson (EMO) INSTALLED: Sept. 1973
 LAT: 46° 02.89' N LONG: 6° 57.72' E ALTITUDE: 1500m
 OPERATED BY: Schweiz. Erdbebendienst (SED), E.T.H. Zürich
 FOUNDATION: solid rock, Permo-Carboniferous zone
 SEISMOMETER: Mark L-4C (1Hz) DAMPING: 0.7 ELECTRONICS: STS
 RECORDER: 35mm scratch-film
 MAGNIFICATION at 1Hz: 20000
 TIMING: quartz-clock, time-signal by radio HBG (75kHz), $t_{corr.} = 0.2s$

Table I lists seismic events with epicenters localized within boundaries of the map in Fig. 3. Most events were earthquakes, except those marked with * after the origin-time indicating possibly an explosion. More detailed data on the events can be found in Table II.

The calculation of the source-parameters was carried out using HYPOELLIPSE, a computer program of the U.S. National Center for Earthquake Research, California, USA. The station-network as of 1973 is not homogeneous in instrumentation and certainly is not ideal for localization purposes. It allows an estimated average absolute (epicentral) accuracy of about 10 km. The absolute values of the depths of foci are uncertain and therefore not indicated in Table I. In general, the earthquakes can be assumed to be shallow in the depth range from 2 to 20 km.

The following simplified P-wave velocity-depth distributions were adopted for the calculations together with $v_s = v_p/1.73$:

	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	23.5
	3	6.8	25.0	20.0
	4	8.1	45.0	-
Model 2:	1	5.0	0.0	1.5
	2	6.0	1.5	23.5
	3	6.8	25.0	7.0
	4	8.3	32.0	-

Model 1 is chosen, if the first recording station is LIN, DIX or EMO, and Model 2 for BUB, ZUR, BAS or NEU. Thus a crude approximation to the differences in the structure of the crust between Alpine- and non-Alpine areas could be realized.

The magnitude values of Table I correspond to the Richter-scale, evaluated by taking the amplitude of the stations BUB and ZUR and accepting the attenuation constants used in the HYPOELLIPSE program for California. Considerable differences can be observed if the magnitudes are compared to those values obtained by converting macroseismic data into equivalent magnitudes.

The size of symbols X and O in Fig. 3 represents the magnitude and depth as calculated by the computer and listed in Table II.

The epicentral intensities in Tables I and II are based on the information received after questioning the population. They correspond to the values of the Medvedev-Sponheuer-Karnik (MSK) scale of 1964.

Table I: Epicenters within Switzerland

1973	ORIGIN TIME	LAT	LONG	MAG (SED)	I _o
JAN 1	6:47:50.6*	47N32.6	7E48.0		
FEB 20	6: 0:34.5	47N41.3	8E44.5	1.4	
MAR 6	23:37:14.9	45N59.6	7E39.4	2.7	
APR 1	5:51:29.3	47N41.8	8E45.9	1.3	III
	13:45:25.6	47N41.2	8E44.7	1.1	
	14:40:27.2	47N44.2	8E38.5	0.9	
APR 4	3: 2:47.6	47N40.9	8E42.4	1.5	III
	19:58:58.1	47N40.7	8E40.0	1.4	III-IV
APR 12	1:56:48.6	45N59.7	7E20.6	2.6	
APR 22	11:20:37.0*	46N43.5	9E56.2	1.8	
APR 25	8:38:00.0	46N23.8	7E21.4	2.7	
APR 28	9:45:22.2	46N14.4	6E55.3	2.0	
	13:20:24.6	46N23.6	7E33.4	2.5	
MAY 5	22:29:22.8	47N 7.6	9E 5.3	1.8	III
MAY 23	5: 5:57.6	47N28.4	8E 2.1	1.4	
	22:07:07.8	46N43.2	9E45.1	2.6	III
MAY 28	21:17:56.4	46N13.5	6E28.0	2.1	
JUN 13	17:21:33.5	45N55.3	6E59.6	2.5	
JUN 14	20:50: 4.0	46N40.5	8E 8.8	2.1	III
JUL 2	11: 1:23.7	46N14.3	6E41.8	2.8	
JUL 6	11: 5:59.2*	46N13.4	7E29.7	2.6	
JUL 8	3:58:34.1	46N44.2	9E36.4	2.7	II
	5: 0:12.8	46N50.6	9E39.0	2.2	II
	5: 2:48.8	46N49.0	9E39.8	2.2	II
	5: 9:14.4	46N50.9	9E40.1	2.2	II
	5:12:28.5	46N48.8	9E37.2	2.5	II
JUL 9	0:27: 3.8	46N46.1	9E35.4	2.9	V
JUL 17	14:39:21.8*	47N33.2	8E15.0	1.6	
JUL 24	0:46:37.5	47N 7.4	9E31.1	2.3	V
AUG 21	2:13:33.6	46N29.4	8E 1.3	1.9	
AUG 23	10:42:58.9	45N52.4	7E 8.5	2.3	
SEP 1	21:34:49.1	46N14.1	6E38.8	2.5	
SEP 11	16:12:48.9*	46N18.0	7E24.8	1.9	
SEP 19	15:15: 9.7*	47N31.5	8E35.5	1.5	
OCT 14	8:16:41.5	46N24.9	7E10.6	2.4	
OCT 26	15:40:21.5*	47N16.5	7E37.7	1.5	
NOV 3	19:55: 9.1	47N38.9	7E35.7	1.0	
NOV 17	7:49:19.1	46N 5.3	7E17.6	2.0	
NOV 30	20: 7:59.7	46N 2.8	7E 4.2	2.1	
DEC 9	14:13:38.0	46N47.7	10E13.2	2.8	
DEC 22	12:30:20.5	46N19.7	7E28.4	2.1	

* possibly explosion

Fig.3: ERDBEBEN EPIZENTREN JAN 73 BIS DEZ 73

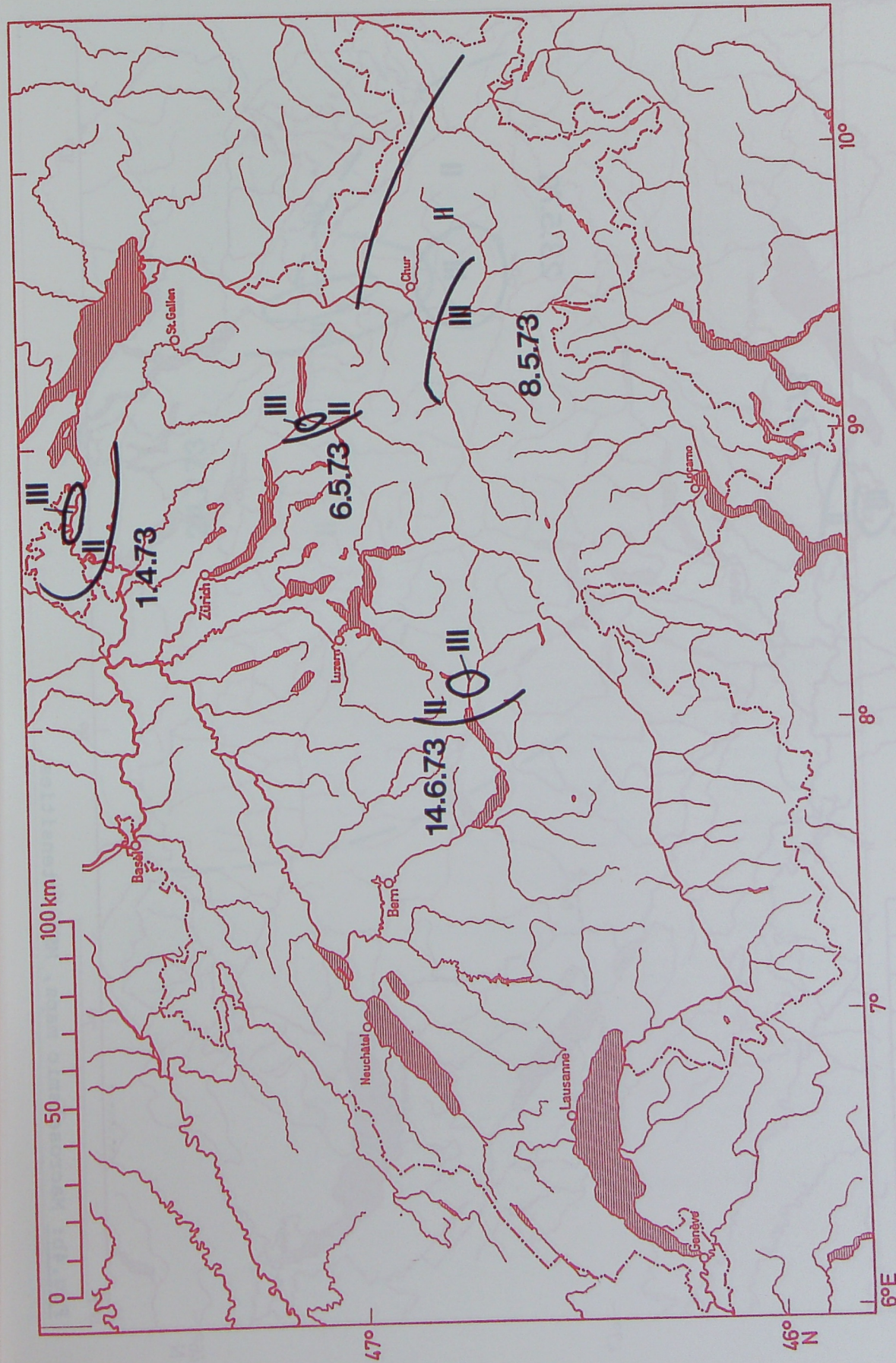
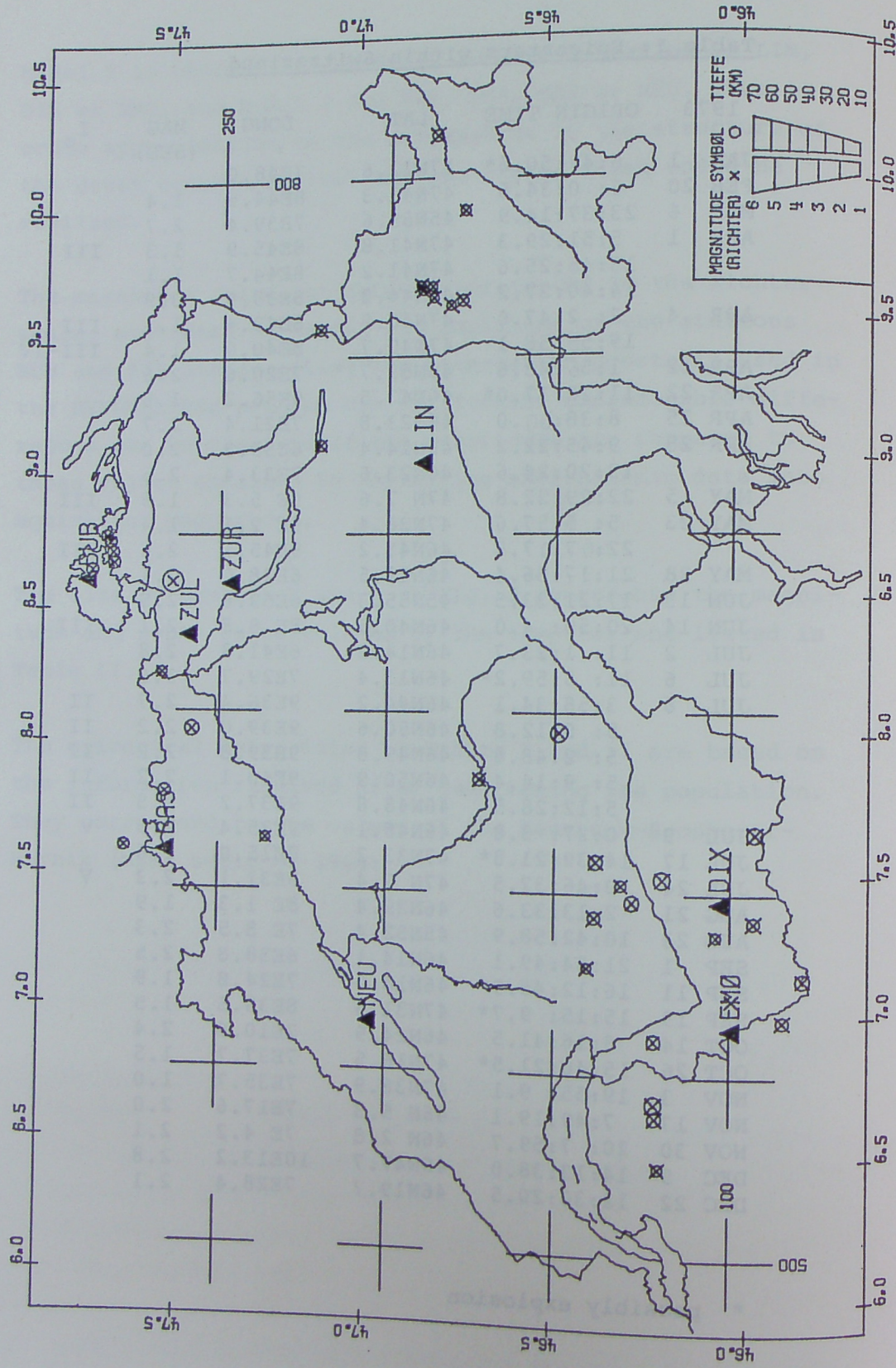


Fig.4a: Macroseismic maps, MSK-Intensities

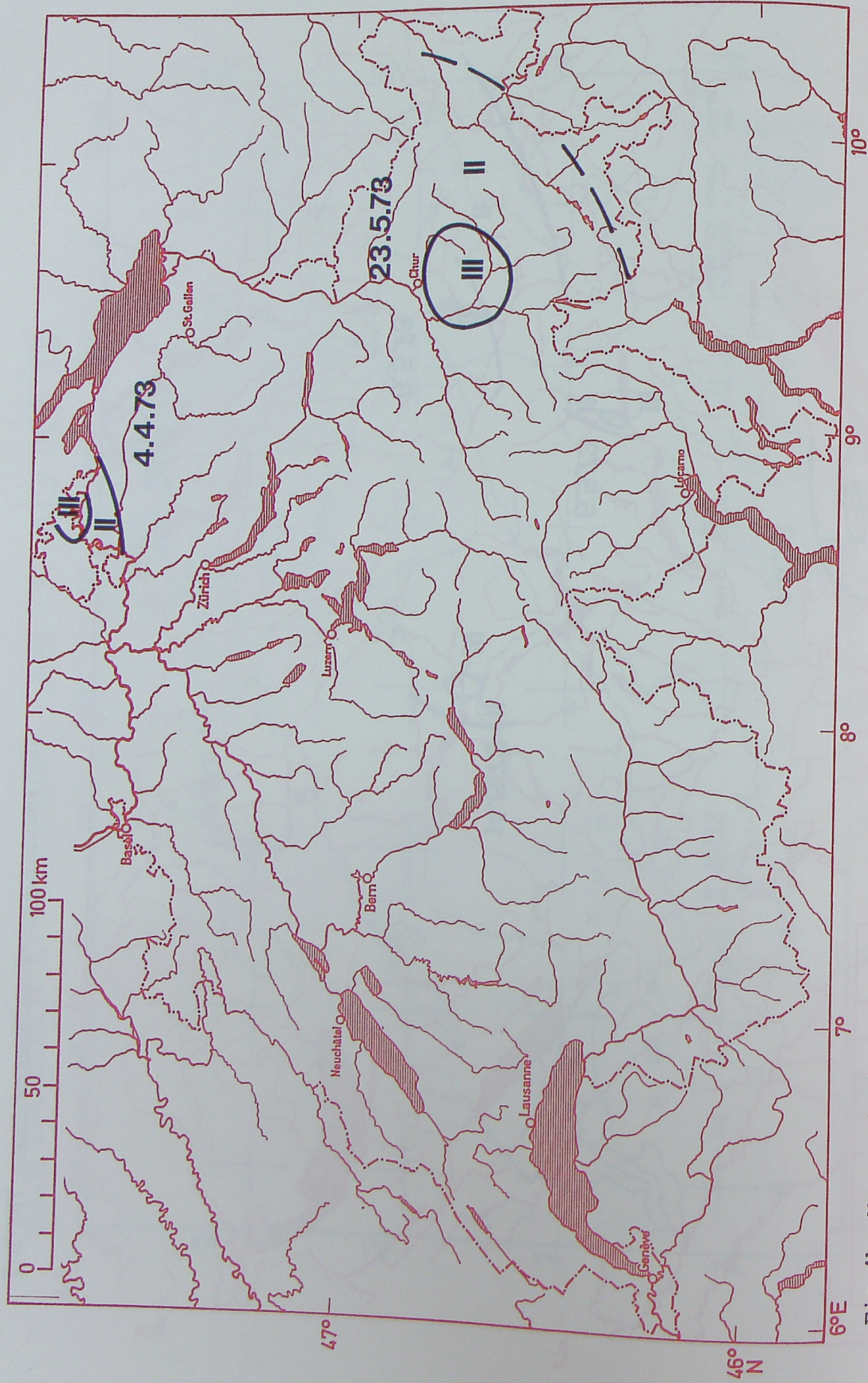


Fig.4b: Macroseismic maps, MSK-Intensities

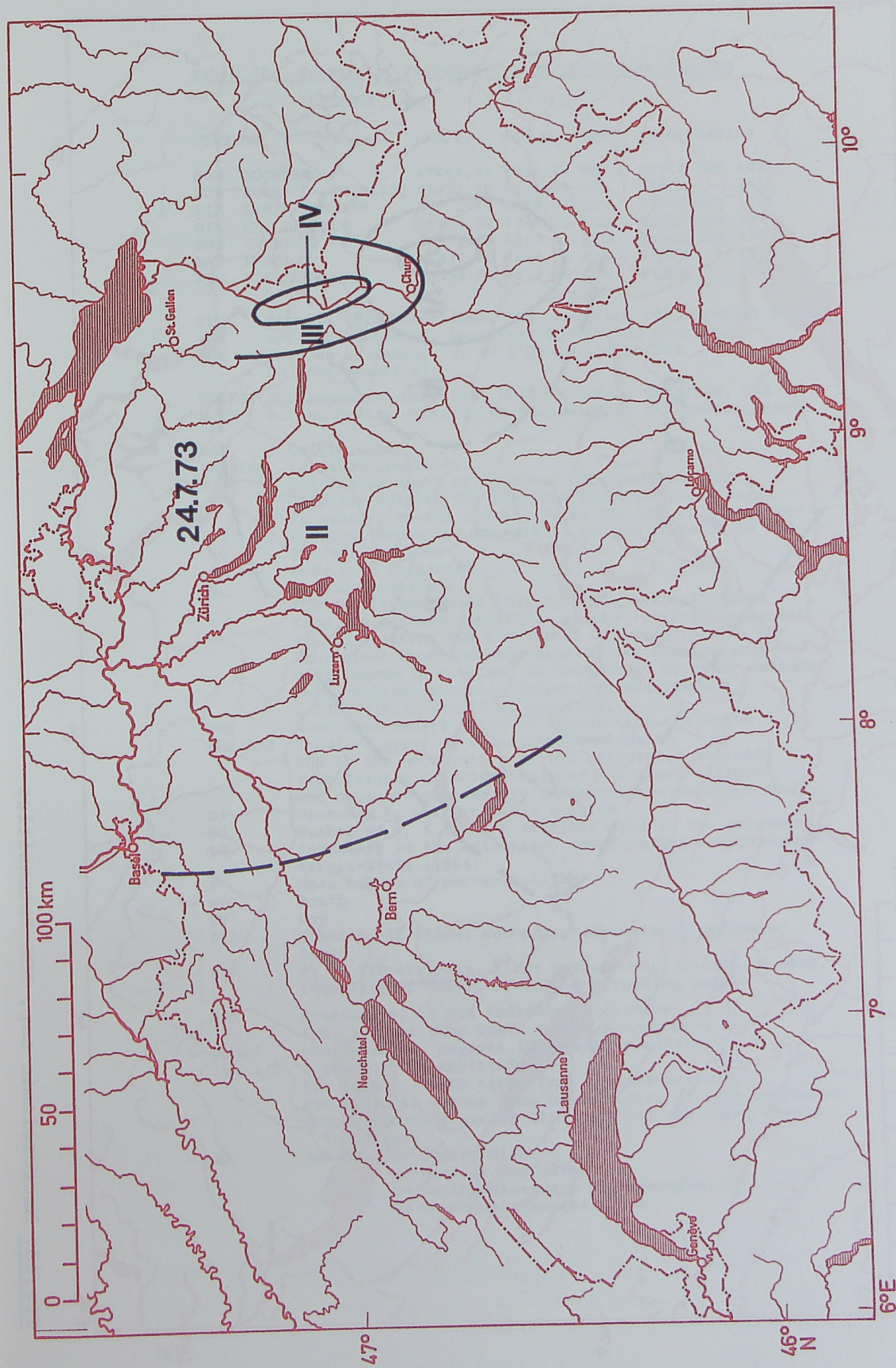


Fig.4c: Macroseismic map, MSK-Intensities

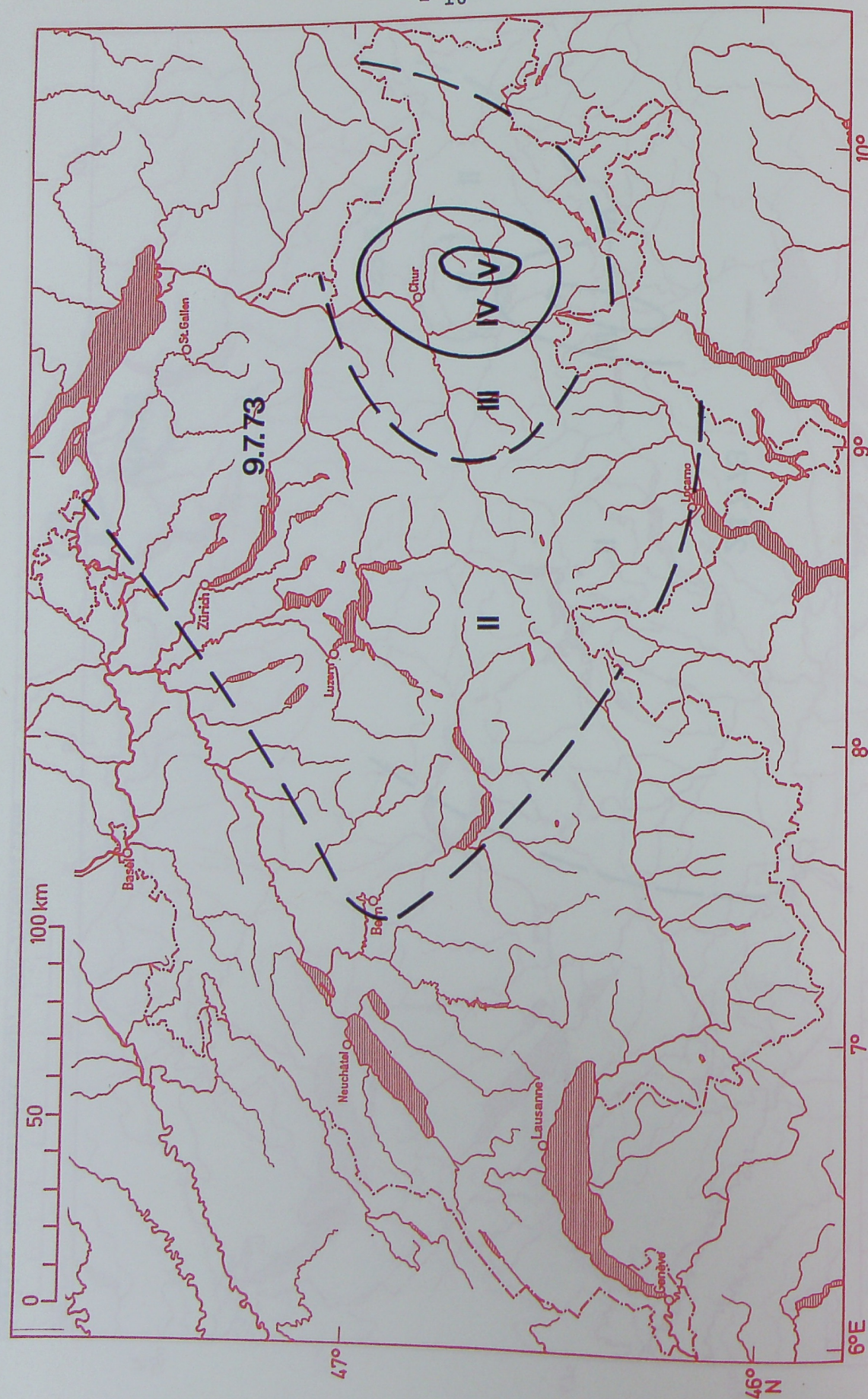


Fig.4d: Macroseismic map, MSK-Intensities

Table II: Summary of recorded events, including station readings

STATION		LAT.N	LON.E	INST.	IN OPERATION
BUB	BUCHBERG	47N44.94	8E36.18	SED	SINCE DEC 1971
ZUR	ZUERICH-DEGENRIED	47N22.12	8E34.83	SED	SINCE 1911
LIN	LINTH-LIMMERN	46N52.14	8E59.81	SED	SINCE NOV 1971
DIX	GD. DIXENCE	46N04.82	7E24.65	SED	SINCE NOV 1970
EMO	EMOSSON	46N02.89	6E57.72	SED	SINCE SEP 1973
BAS	BASEL	47N32.40	7E34.90	AMB	SINCE 1934
NEU	NEUCHÂTEL	46N59.84	6E57.44	OCN	SINCE 1911

SED Schweiz. Erdbebendienst, ETH, Postfach 266, CH-8049 Zürich
 AMB Abt. Meteorologie, Venusstr. 7, CH-4102 Binningen
 OCN Obs. de Neuchâtel, r. de l'Observatoire 58, CH-2000 Neuchâtel

ERL/GS Environmental Res. Lab. NOAA, Boulder, Colorado, USA
 BCIS Bureau Central Intern. de Séismologie, Strasbourg, France

H0 Origin time
 LAT/LON Latitude/Longitude
 Z Calculated depth of focus as obtained from the computer output. The absolute error of focal depth is usually in the order 5-20 km for the 1973 station-network, depending especially on the distance to the closest station.
 MB Body wave magnitude
 ML Richter magnitude
 The magnitudes ML of this bulletin are calculated from the maximum amplitudes of the vertical component of the stations BUB and ZUR by reducing them to the equivalent Wood-Anderson-Amplitudes. Considerable differences to M-values as determined by other methods (e.g. macroseismically determined magnitude $M = 0.67I + 0.3$) should be expected.
 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 principal axis of the error-ellipse) and does not necessarily represent the absolute error.
 D3 Distance to third closest station
 NO Number of P, S and S-P readings used in the solution
 IO Intensity in the epicenter, (MSK) Medvedev-Sponheuer-Karnik-Scale (1964)
 R Mean radius of perceptibility
 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 usable
 SRK S-arrivals, if not indicated otherwise
 E/N: arrival time taken from E/N component
 H.M.S Hour, minute, seconds (Greenwich-Mean-Time)
 LOG A/T A=true ground amplitude
 For teles. events taken from P-phase-maximum, for regional events from overall max. of vert. component
 T=corresponding period (for regional and local events T=0.2 sec)
 RK Remarks: Q= Quarry blast
 A= Nuclear explosion
 D= Earthquake-swarm Diessenhofen
 G= Earthquake-series Arosa

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PAGE 20	MO	DY	STA	PRK	H	M	S	SRK	M	S	LOG A/T	RK
	FEB	07	BUB	EPD	4	31	05.5	E	31	15.3	1.4	
	FEB	07	ZUR	EPD	5	34	04.2				1.9	
	FEB	07	BUB	EPD	5	34	04.6				1.1	
			*ERL	HQ=5:27:20.0				LAT=32.050N	LON=49.428E	Z=51KM	MB=5.2	
				WESTERN IRAN								
	FEB	07	BUB	EPD	13	37	36.4	E	37	41.3	1.2	
	FEB	07	BUB	EP	16	17	25.8				2.1	
	FEB	07	ZUR	EP	16	17	26.7				2.9	
			*ERL	HQ=16:17:30				LAT=31.460N	LON=100.286E	Z=33KM	MB=5.8	
				SZECHWAN PROVINCE, CHINA								
	FEB	07	ZUR	EPD	18	17	15.7				1.7	
	FEB	07	BUB	EPD	18	17	22.6				1.2	
	FEB	07	BUB	EP	21	8	04.1	E	8	6.0	.9	D
	FEB	08	BUB	EP	19	15	32				1.9	
			*ERL	HQ=19:51:21.9				LAT=10.377S	LON=13.014W	Z=33KM	MB=5.3	
				ASCENSION ISLAND REGION								
	FEB	09	BUB	EPD	15	11	08.4	N	11	25.0	1.2	
	FEB	09	BUB	EP	16	15	50.0	N	16	4.3	1.2	
	FEB	10	BUB	EP	10	25	03.3				1.2	
	FEB	10	ZUR	EP	14	48	22				2.4	
			*ERL	HQ=14:37:35.1				LAT=2.520N	LON=66.424E	Z=33KM	MB=5.3	
				CARLSBERG RIDGE								
	FEB	10	BUB	EP	17	7	34.6				1.4	
			*ERL	HQ=17:55:33.9				LAT=49.899N	LON=156.084E	Z=33KM	MB=5.5	
				KURIL ISLANDS								
	FEB	10	BUB	EPD	17	45	39.4				1.5	
			*ERL	HQ=17:45:49							1.7	
	FEB	10	BUB	EP	18	16	13				1.1	
			*ERL	HQ=18:23:23.9				LAT=2.642N	LON=66.334E	Z=33KM	MB=4.9	
				CARLSBERG RIDGE								
	FEB	10	BUB	EPD	22	19	43				1.1	
			*ERL	HQ=22:18:52.8				LAT=2.564N	LON=66.290E	Z=33KM	MB=5.0	
				CARLSBERG RIDGE								
	FEB	12	BUB	EPD	11	4	12.3	E	4	14.3	1.4	D
	FEB	12	BUB	EPD	14	53	05.8	N	53	21.3	1.4	
	FEB	12	BUB	EPD	18	20	13.9	E	20	16.2	1.6	D
	FEB	13	BUB	EP	14	55	46.4				1.5	
	FEB	13	BAS	PKP	15	41	35				3.1	
			*ERL	HQ=15:41:37.8								
				15:41:43.4				LAT=17.517S	LON=178.501W	Z=541KM	MB=5.5	
				FIJI ISLANDS REGION								
	FEB	14	BUB	EPD	1	2	03.5				2.6	
			*ERL	HQ=01:49:16.2				LAT=22.288N	LON=121.550E	Z=38KM	MB=5.9	
				TAIWAN REGION								
	FEB	14	BUB	EP	13	36	42.3	N	36	55.4	1.2	
	FEB	15	BUB	EPD	14	12	06.7	E	12	9.9	1.5	D
	FEB	16	BUB	PKP	5	10	41				1.8	
			*ERL	HQ=4:51:1.4				LAT=15.307S	LON=173.322W	Z=50KM	MB=5.8	
				TONGA ISLANDS								
	FEB	16	BUB	EP	7	7	39.0				1.5	
	FEB	16	BUB	EP	16	0	31	E	0	42.5	.9	
	FEB	16	BUB	EP	20	51	32				1.4	
			*BCIS	HQ=20:50:10.0				LAT=42.9N	LON=12.6E			
				CENTRAL ITALY								
	FEB	17	BUB	EPD	16	13	19.2				1.1	
			*ERL	HQ=16:21:45.5				LAT=16.951N	LON=61.419W	Z=34KM	MB=5.5	
				LEEWARD ISLANDS								
	FEB	17	BUB	EP	19	27	14.6				2.0	
			*ERL	HQ=19:15:11.4				LAT=45.208N	LON=148.571E	Z=113KM	MB=5.3	
				KURIL ISLANDS								
	FEB	18	BUB	IPD	3	46	09.9	E	46	18.3	1.2	
	FEB	18	BUB	EP	4	1	35				1.1	
			*ERL	HQ=3:43:52.9				LAT=36.694S	LON=17.203W	Z=33KM	MB=5.6	
				SOUTH ATLANTIC RIDGE								
	FEB	18	BUB	IPD	21	40	01.2	N	40	15.0	1.2	
	FEB	18	BUB	EP	21	59	01.8	E	59	15.8	1.9	
	FEB	19	BUB	EP	18	14	28				1.1	
			*ERL	HQ=18:10:5				LAT=40.191N	LON=33.852E	Z=22KM	MB=4.5	
				TURKEY								
	FEB	20	ZUR	EP	5	59	18				2.4	
			*ERL	HQ=5:59:19				LAT=34.411N	LON=23.839E	Z=22KM	MB=4.5	
				CRETE								

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SED	MO	DY	STA	PRK	H	M	S	SRK	M	S	LOG A/T	RK
	FEB	20	BUB	IPD	6	0	37.3	E	0	39.4	2.7	
			ZUR	EPD	6	0	40.8				2.3	
			*SED	HQ=6:01:34.5				LAT=47N41.3	LON=8E44.5	Z=8KM	ML=1.4	
				RMS=.44S				ERH=5.2KM	ERZ=3.9KM	D3=58KM	NO=11	
				REGION SCHAFFHAUSEN (CH)								
	FEB	20	BUB	EP	6	52	05	N	52	9.9	1.2	
	FEB	21	BUB	EPD	11	0	07.1				1.3	
	FEB	21	BUB	EPD	11	20	06.1				1.5	
	FEB	21	BUB	EPD	14	48	37.8				1.3	
	FEB	22	BUB	EP	0	42	50				2.0	
			*ERL	HQ=0:30:20.3				LAT=14.478N	LON=91.637W	Z=107KM	MB=5.2	
				GUATEMALA								
	FEB	22	BUB	EP	4	17	26.1	E	17	47.0	1.0	
	FEB	22	BAS	P	6	48	52				4.0	
			NEU	P	6	48	57.4				4.0	
			BUB	EPD	6	48	58.1	N	49	16.9	2.8	
				P	6	48	59.3	N	49	19.6	2.7	
			*ERL	HQ=6:48:33.6				LAT=48.170N	LON=6.584E	Z=33KM		
				FRANCE								
	FEB	22	BUB	IPU	19	16	58.9	E	17	5.6	2.1	
			ZUR	EPD	19	17	03.7	E	17	14.1	2.1	
	FEB	23	BUB	EP	4	39	13				2.2	
			*ERL	HQ=4:26:23.3				LAT=2.088S	LON=78.210W	Z=67KM	MB=5.7	
				ECUADOR								
	FEB	23	BUB	EP	14	57	02	N	57	18.3	1.4	
	FEB	24	BUB	EP	0	10	03				1.6	
			*ERL	HQ=01:21:40.1				LAT=28.584N	LON=52.628E	Z=27KM	MB=5.2	
				SOUTHERN IRAN								
	FEB	24	BUB	PKP	7	58	02.7				2.8	
			ZUR	PKP	7	58	05.2				3.0	
					7	58	02.8					
					7	58	05.8					
			BAS	PKP	7	58	07					
			*ERL	HQ=7:38:12.0				LAT=19.194S	LON=168.740E	Z=59KM	MB=6.0	
				NEW HEBRIDES ISLANDS								
	FEB	24	BUB	IPU	8	42	53.3	E	43	8.6	1.2	
	FEB	24	BUB	EPD	18	24	26.5	E	24	42.7	1.4	
				P	18			E	24	47.0		
	FEB	25	BUB	EPD	2	26	03.5	N	26	11.5	1.9	
			ZUR	EPD	2	26	10.8	E	26	22.7	2.1	
	FEB	25	BUB	EP	10	44	48				1.1	
			*ERL	HQ=10:31:39.5				LAT=1.696S	LON=99.680E	Z=33KM	MB=5.4	
				SOUTHERN SUMATRA								
	FEB	26	BUB	EP	0	56	12				1.1	
			*ERL	HQ=01:43:39.9				LAT=9.606N	LON=84.229W	Z=33KM	MB=4.7	
				COSTA RICA								
	FEB	27	BUB	EP	17	21	35.7	E	21	51.0	1.2	
	FEB	28	BUB	EPD	6	49	48.5				2.6	
			ZUR	P	6	49	57.3				4.4	
			BAS	P	6	49	50.4					
			*ERL	HQ=6:37:49.5				LAT=50.486N	LON=156.584E	Z=27KM	MB=6.3	
				KURIL ISLANDS								
	FEB	28	BUB	IPU	10	6	23.0	E	6	33.9	1.5	
	FEB	28	BUB	EP	13	23	43				1.6	
	MAR	01	BUB	EPD	2	31	06.3				1.4	
			ZUR	EP	2	31	08				1.9	
			*ERL	HQ=2:19:31.1				LAT=49.884N	LON=157.295E	Z=30KM	MB=5.5	
				KURIL ISLANDS REGION								
	MAR	01	BUB	IPD	13	33	58.9				2.7	
	MAR	03	BUB	EP	2	53	35				1.2	
			ZUR	EP	2	53	35				2.4	
			*ERL	HQ=2:42:9.0				LAT=50.439N	LON=156.278E	Z=59KM	MB=5.5	
				KURIL ISLANDS								
	MAR	03	BUB	EPD	5	37	45.5	N	38	31.0	2.0	
			ZUR	EPD	5	37	52.0	E	38	36.3	1.8	
	MAR	03	BUB	EP	6	27	17.4	N	27	26.7	1.5	
			ZUR	EPD	6	27	30.0	E	27	38.3	2.3	
	MAR	03	BUB	EPD	10	54	50.1	N	55	36.0	2.2	
			ZUR	EPD	10	54	57.0				2.4	
			*ERL	HQ=10:53:42.2				LAT=50.340N	LON=12.393E	Z=6KM		
				GERMANY								
	MAR	04	BUB	EPD	18	9	25.6				2.1	
			ZUR	EPD	18	9	27.5				3.3	
			BAS	P	18	9	28					
			*ERL	HQ=17:57:43.5				LAT=54.828N	LON=161.599E	Z=32KM	MB=6.1	
				NEAR EAST COAST OF KAMCHATKA								
	MAR	05	BUB	IPU	10	1	03.4				2.8	Q
	MAR	05	BUB	EPD	20	7	14.4				1.6	
			*ERL	HQ=20:6:11.9				LAT=51.524N	LON=7.188E	Z=0KM		
				GERMANY								

SEISMIC BULLETIN 1973										SED				
PAGE 24		MO	DY	STA	PRK	H	M	S	SRK	M	S	LOG A/T	RK	
APR	01	BUB	EP			7	20	59						
		*ERL				7	12	37.0	LAT=11.663N	LON=	43.035E	Z= 31KM	MB=5.5	
APR	01	BUB	IPU			13	45	28.5		45	30.6	2.5	D	
		ZUR	EPU			13	45	31.8		45	36.7		D	
		*SED							LAT=47N41.2	LON=	8E44.7	Z= 9KM	ML=1.1	
									HO= 13.45	ERH=13.3KM	ERZ= 6.5KM	D3=117KM	NO= 8	
									RMS= .64S					
									REGION DIessenHOFEN (CH)					
APR	01	BUB	IPU			14	40	28.8		40	30.9	2.6	D	
		ZUR	EPU			14	40	32.2		40	37.0		D	
		*SED							LAT=47N44.2	LON=	8E38.5	Z= 10KM	ML= .9	
									HO= 14.40	ERH=21.8KM	ERZ= 5.7KM	D3=109KM	NO= 8	
									RMS= .69S					
									REGION DIessenHOFEN (CH)					
APR	02	BUB	IPU			18	13	05.2		13	7.3	1.9	D	
APR	02	BUB	IPU			21	53	17.8		53	19.9	1.6	D	
APR	02	BUB	IPU			23	43	31.2		43	33.3	2.1	D	
APR	03	BUB	IPU			8	14	37.8		N	14	39.9	1.2	D
APR	03	BUB	IPU			8	16	04.3		N	16	6.4	1.4	D
APR	03	BUB	IPU			8	42	41.6		42	43.7	1.7	D	
APR	03	BAS	EP			14	5	53						
		ZUR	EP			14	6	09						
		BUB	EP			14	6	09.6						
		*ERL				13	54	1.8	LAT= 4.691N	LON=	75.628W	Z=158KM	MB=6.2	
APR	03	BUB	IPU			20	56	15.5		N	56	17.6	1.2	D
APR	03	BUB	IPU			23	2	54.3		N	2	56.4	1.5	D
APR	03	BUB	IPU			23	6	18.3		N	6	20.4	1.2	D
APR	04	BUB	IPD			2	25	08.4		N	25	10.5	1.8	D
APR	04	BUB	IPD			2	27	13.7		N	27	15.8	1.8	D
APR	04	BUB	IPD			3	2	50.3		N	2	52.4	2.8	D
		ZUR	EPU			3	2	53.5			2	58.4		D
		LIN	ESP			3	3	06.4			3	16.0		D
		*SED							LAT=47N40.9	LON=	8E42.4	Z= 9KM	ML=1.5	
									HO= 3.1	ERH=12.1KM	ERZ= 6.5KM	D3= 93KM	NO= 9	
									RMS= .60S					
									REGION DIessenHOFEN (CH)					
									IO= III (MKS)		R= 15 KM			
									MAGNITUDE (CALC. FROM IO)= 2.3					
									INTENS. (MSK): DIessenHOFEN III, HEMISHOFEN II, SCHAFF-					
									HAUSEN II, FEUERTHALEN II, KLEIN ANDEL-					
									FINGEN II					
APR	04	BUB	IPD			3	14	22.2		14	24.3	.9	D	
APR	04	BUB	IPD			3	22	26.6		N	22	28.7	1.4	D
APR	04	BUB	IPD			3	39	05.7		N	39	7.8	1.2	D
APR	04	BUB	IPU			4	22	54.2		E	22	56.3	1.8	D
APR	04	BUB	IPD			5	10	56.8		N	10	58.9	1.4	D
APR	04	BUB	IPD			5	45	32.3		E	45	34.4	1.2	D
APR	04	BUB	IPU			6	26	08.2		N	26	10.3	1.5	D
APR	04	BUB	EPU			6	40	33.3		E	40	51.6	1.5	D
APR	04	BUB	IPD			13	24	31.2			24	33.3	1.8	D
APR	04	BUB	IPU			14	38	48.8			38	50.9	2.2	D
APR	04	BUB	IPU			15	10	54.9		E	10	57.0	2.0	D
APR	04	BUB	IPD			15	47	22.6			47	24.7	1.7	D
APR	04	BUB	IPU			15	47	31.2			47	33.3	2.3	D
		ZUR	IPU			15	47	34.5		N	47	39.4	2.2	D
APR	04	BUB	IPD			15	54	57.3		N	54	59.4	1.6	D
APR	04	BUB	IPD			16	13	38.3		N	13	40.4	1.6	D
APR	04	BUB	IPD			17	1	56.4		E	1	58.5	.9	D
APR	04	BUB	IPD			17	16	13.8		E	16	15.9	1.2	D
APR	04	BUB	EP			17	25	31.7		E	25	33.8	1.6	D
APR	04	BUB	IPD			19	59	00.6		N	59	2.7	2.8	D
		ZUR	IPU			19	59	04.0		E	59	8.9	2.9	D
		BAS	P			19	59	12						D
		LIN	ESP			19	59	16.7						D
		*SED							LAT=47N40.7	LON=	8E40.0	Z= 10KM	ML=1.4	
									HO= 19.58	ERH= 8.7KM	ERZ= 4.5KM	D3= 83KM	NO=10	
									RMS= .51S					
									REGION DIessenHOFEN (CH)					
									IO= III-IV (MKS)		R= 15 KM			
									MAGNITUDE (CALC. FROM IO)= 2.6					
									INTENS. (MSK): DIessenHOFEN (7) III-IV, DOERFLINGEN (3)					
									III, HEMISHOFEN III, SCHLATT (2) III					
									STEIN A. RHEIN (5) III, BUESINGEN II-III					
									HERBLINGEN II-III, KLEIN ANDELINGEN II-					
									III, LOHN (2) II-III, NEUHAUSEN (10) II-					
									III, SCHAFFHAUSEN (50) II-III, THAYNGEN					
									(2) II-III, TRUELLIKON (2) II-III,					
									LANGWIESEN (3) II-III,					
									WAGENHAUSEN (2) II-III, BENKEN II, BUCH-					

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MO	DY	STA	PRK	H	M	S	SRK	M	S	LOG A/T	RK	
INTENS. (MSK): THALEN II, FEUERTHALEN II, SCHLEITHEIM II, OBERNEUN- FORM II, UHWIESEN II												
APR	04	BUB	IPD	20	3	01.2	E	3	3.3	1.2	D	
APR	04	BUB	IP	20	18	10.9	E	18	13.0	1.2	D	
APR	04	BUB	IPD	20	28	08.9	N	28	11.0	1.4	D	
APR	04	BUB	IPD	20	28	46.6	E	28	48.7	1.5	D	
APR	04	BUB	EP	20	28	58.3	E	29	.4	1.4	D	
APR	04	BUB	EP	21	34	25.9	E	34	28.0	1.4	D	
APR	04	BUB	IP	23	6	46.3	E	6	48.4	1.4	D	
APR	05	BUB	IPD	0	7	54.4	N	7	56.5	1.5	D	
APR	05	BUB	IPU	0	19	25.8	N	19	27.9	.9	D	
APR	05	BUB	IPU	12	22	37.2	E	22	39.3	1.4	D	
APR	05	BUB	IPU	12	22	42.5	E	22	44.6	1.8	D	
APR	05	BUB	IPD	17	39	53.8	E	39	55.9	1.4	D	
APR	05	BUB	EP	20	16	19.3	E	16	21.4	1.2	D	
APR	05	BUB	IPD	21	41	22.7	E	41	24.8	1.5	D	
APR	05	BUB	EPD	21	43	29.1	E	43	31.2	1.2	D	
APR	05	BUB	IPU	21	59	01.3	E	59	3.4	1.2	D	
APR	05	BUB	EP	22	29	20.0				1.4		
		ZUR	EP	22	29	21				1.6		
		*ERL	HQ=	22	16	59.6	LAT=43.608N LON=147.709E Z= 33KM MB=5.4					
			KURIL ISLANDS									
APR	06	BUB	IPD	0	2	38.2	E	2	40.3	1.2	D	
APR	06	BUB	IPD	0	3	02.6	E	3	4.7	.9	D	
APR	06	BUB	EPU	0	14	16.0				1.1		
APR	06	BUB	EP	2	0	19.0				1.3		
		ZUR	EP	2	0	20.5				1.6		
		*ERL	HQ=	14	48	1.3	LAT=43.674N LON=147.755E Z= 33KM MB=5.4					
			KURIL ISLANDS									
APR	06	BUB	IPU	2	55	51.7	N	55	53.8	1.9	D	
APR	06	BUB	EPU	2	56	12.9	E	56	15.0	.9	D	
APR	06	BUB	IPU	3	45	07.8	N	45	40.3	1.4		
APR	06	BUB	IPU	4	47	38.1	E	47	40.2	1.5	D	
APR	06	BUB	IPU	12	14	37.3	E	14	46.4	1.2		
APR	06	BUB	IPD	12	54	04.0	N	54	14.3	1.9		
		ZUR	EPU	12	54	10.4	E	54	25.3	2.2		
APR	06	ZUR	EP	14	18	06.7				2.0		
		BUB	EP	14	18	07.7				1.9		
		BAS	EP	14	18	15						
		*ERL	HQ=	14	13	54.2	LAT=34.431N LON= 25.250E Z= 16KM MB=5.1					
			CRETE									
APR	07	ZUR	IPU	3	13	06.6				2.8		
		BUB	IPD	3	13	06.6				1.9		
		BAS	EP	3	13	19						
		*ERL	HQ=	31	01	58.8	LAT= 6.966N LON= 91.384E Z= 33KM MB=5.9					
			NICOBAR ISLANDS REGION									
APR	07	BUB	EP	19	32	29				1.5		
		*ERL	HQ=	19	30	6.9	LAT=41.495N LON= 19.978E Z= 16KM MB=4.7					
			ALBANIA									
APR	07	BUB	IPU	21	53	58.1	N	54	.2	1.2	D	
APR	07	BUB	IPU	22	10	34.3	N	10	36.4	1.9	D	
APR	07	BUB	IPU	23	41	28.0	E	41	30.1	1.9	D	
APR	08	BUB	PKP	13	0	33.1				1.8		
		ZUR	PKP	13	0	34.0				3.0		
		BAS	PKP	13	0	35						
		*ERL	HQ=	12	41	2.0	LAT=15.779S LON=167.218E Z= 35KM MB=5.8					
			NEW HEBRIDES ISLANDS									
APR	08	BUB	EPU	16	29	17.0	N	29	26.3	1.2		
APR	08	BUB	PKP	21	8	25.7				.8		
		*ERL	HQ=	20	14	46.0	LAT=23.876S LON=177.044W Z=122KM MB=5.5					
			SOUTH OF FIJI ISLANDS									
APR	08	BUB	IPU	22	7	00.3				2.2		
		BAS	EP	22	7	01						
		ZUR	EPU	22	7	02.2				2.3		
		*ERL	HQ=	21	54	59.2	LAT=46.998N LON=152.294E Z=104KM MB=5.6					
			KURIL ISLANDS									
APR	09	BUB	EPU	8	21	50.9	N	22	10.3	1.2		
APR	09	BUB	EPD	8	45	05.1				1.1		
		*ERL	HQ=	3	32	42.1	LAT=26.821N LON=125.304E Z=186KM MB=5.4					
			NORTHEAST OF TAIWAN									
APR	10	BUB	EPD	19	44	50.2	E	44	58.3	1.2		

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PAGE 26									
MO	DY	STA	PRK	H	M	S	SRK	M	S
LOG A/T RK									
APR	11	BUB	ERL	2	35	11.6			
*ERL				LAT=16.093N LON= 95.424W Z= 33KM MB=4.9					
				OAXACA, MEXICO					
APR	12	BUB	IPD	0	20	45.8			
				1.3					
APR	12	DIX	IPD	1	56	51.2			
				E 56 52.4					
APR	12	ZUR	IPD	1	57	16.6			
				E 57 37.7					
APR	12	LIN	ESP	1	57	19.8			
				E 57 39.5					
APR	12	BUB	IPU	1	57	23.4			
				E 57 47.3					
*SED				LAT=45N59.7 LON= 7E20.6 Z= 8KM ML=2.6					
				RMS= .53S ERH= 7.7KM ERZ= 7.6KM D3=138KM NO=13					
				REGION GD. DIXENCE, KT. VALAIS (CH)					
APR	12	BUB	ERL	5	15	32.5			
*ERL				LAT=41.593N LON=142.008E Z= 73KM MB=5.4					
				HOKKAIDO, JAPAN REGION					
APR	12	BUB	ERL	14	1	10.4			
*ERL				LAT=50.893N LON=157.443E Z= 52KM MB=6.1					
				KURIL ISLANDS					
APR	12	BUB	EP	23	27	51.8			
				N 28 1.7					
APR	13	BUB	ERL	8	14	48			
*ERL				LAT=39.090N LON= 16.961E Z= 45KM MB=4.7					
				SOUTHERN ITALY					
APR	13	BUB	ERL	11	41	28.3			
*ERL				LAT=34.486N LON= 24.247E Z= 37KM MB=4.3					
				CRETE					
APR	14	ZUR	ERL	8	46	31			
*ERL				LAT=10.679N LON= 84.759W Z= 33KM MB=5.7					
				COSTA RICA					
APR	14	ZUR	ERL	21	31	04.7			
*ERL				LAT=31.443N LON= 31 52.1					
				E 31 52.1					
APR	15	BUB	ERL	5	53	59.2			
*ERL				LAT=20.613S LON=178.825W Z=610KM MB=5.5					
				FIJI ISLANDS REGION					
APR	16	BUB	ERL	15	0	09.1			
*ERL				LAT=51.123N LON=178.829W Z= 54KM MB=5.5					
				ANDREANOF ISLANDS, ALEUTIAN IS.					
APR	17	ZUR	ERL	12	53	17			
*ERL				LAT=4.439S LON=134.030E Z= 33KM MB=5.7					
				WEST NEW GUINEA REGION					
APR	17	BUB	ERL	22	21	45.7			
*ERL				LAT=50.813N LON=157.548E Z= 41KM MB=5.6					
				KURIL ISLANDS					
APR	19	BUB	ERL	1	31	08.2			
*ERL				LAT=20.193S LON=168.807E Z= 36KM MB=5.2					
				LOYALTY ISLANDS					
APR	19	BUB	ERL	4	41	08			
*ERL				LAT=50.006N LON= 77.725E Z= 0KM MB=5.4					
				EASTERN KAZAKH SSR					
APR	19	BUB	ERL	6	40	51			
*ERL				LAT=22.325S LON=170.318E Z= 41KM MB=4.9					
				LOYALTY ISLANDS REGION					
APR	19	BUB	ERL	14	22	23.2			
*ERL				LAT=43.471N LON= 12.465E Z= 4KM MB=4.4					
				CENTRAL ITALY					
APR	19	BUB	ERL	22	17	46			
*ERL				LAT=38.241N LON= 26.841E Z= 13KM MB=4.5					
				AEGEAN SEA					
APR	20	BUB	ERL	0	52	49			
*ERL				LAT=14.833S LON=173.136W Z= 49KM MB=5.3					
				SAMOA ISLANDS REGION					
APR	20	BUB	ERL	12	24	52			
*ERL				LAT=49.417N LON= 6.033E Z= 0KM MB=4.3					
				GERMANY					
APR	20	BUB	ERL	16	45	58			
*ERL				LAT=14.833S LON=173.136W Z= 49KM MB=5.3					
				SAMOA ISLANDS REGION					

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MO	DY	STA	PRK	H	M	S	SRK	M	S	LOG A/T	RK
APR	20	*BCIS	:	HQ=	20	51	4.0	LAT=46.2N	LON=	2.2W	
FRANCE											
APR	22	BUB	EP	5	57	51					
*ERL	:	HQ=	5	46	20	9		LAT=27.672N	LON=104.073E	Z= 33KM	MB=5.0
YUNNAN PROVINCE, CHINA											
APR	22	LIN	ESP	11	20	47.5		20	57.2		
ZUR		EPU	11	20	58.5			21	14.5		
BUB		IPU	11	21	61.9			21	21.5		
*SED	:	HQ=	11	20	37.0			LAT=46N43.5	LON= 9E56.2	Z= 4KM	ML=1.8
RMS= .10S ERH=12.3KM ERZ= 4.1KM D3=152KM NO= 5											
ENGADIN KT. GRAUBUENDEN (CH)											
APR	22	ZUR	EP	13	43	34				2.3	
BUB		EP	13	43	36					1.4	
*ERL	:	HQ=	13	39	46.1			LAT=35.177N	LON= 23.395E	Z= 56KM	MB=4.5
CRETE											
APR	22	ZUR	EPU	21	36	50				1.6	
BUB		EPD	21	36	50					1.1	
*ERL	:	HQ=	21	29	57.2			LAT=30.742N	LON= 49.832E	Z= 57KM	MB=5.0
WESTERN IRAN											
APR	23	ZUR	EP	13	39	42					
BUB		EPU	13	39	46.0			E 40 36.9	2.0		
BAS		EP	13	41	10						
*ERL	:	HQ=	13	38	34.0			LAT=44.049N	LON= 12.774E	Z= 33KM	MB=4.2
NORTHERN ITALY											
APR	24	BUB	EPU	0	23	42				1.1	
APR	24	BUB	EP	18	54	43.4				2.0	
*ERL	:	HQ=	18	42	31.9			LAT= 5.162N	LON= 75.813W	Z=118KM	MB=5.5
COLOMBIA											
APR	24	BAS	P	21	42	34					
ZUR		EPD	21	42	36					4.1	
BUB		EPU	21	42	36					2.8	
*ERL	:	HQ=	21	30	9.9			LAT= 4.956N	LON= 78.144W	Z= 50KM	MB=6.3
SOUTH OF PANAMA											
APR	25	BUB	EPU	3	25	07				1.5	
*ERL	:	HQ=	3	16	52.3			LAT=37.604N	LON= 72.106E	Z=136KM	MB=5.2
TADZHIK SSR											
APR	25	DIX		8	38	08.5		38	13.2		
LIN				8	38	22.6		38	41.0		
ZUR		IPD		8	38	23.4		E 38 39.4	2.2		
BUB		IPD		8	38	28.6		SG 38 49.5	2.1		
*SED	:	HQ=	8	38	.4			LAT=46N23.8	LON= 7E21.4	Z= 10KM	ML=2.7
RMS= .78S ERH=18.1KM ERZ=29.1KM D3=136KM NO=11											
REGION SION, KT. VALAIS (CH)											
APR	25	BUB	PKP	20	33	47.7				1.9	
*ERL	:	HQ=	20	13	41.4			LAT=31.667S	LON=179.697E	Z=387KM	MB=4.7
KERMADEC ISLANDS REGION											
APR	25	BUB	PKP	21	53	32.5				1.8	
ZUR		PKP	21	53	36					1.6	
*ERL	:	HQ=	21	34	37.9			LAT=59.281S	LON= 26.097W	Z= 67KM	MB=6.0
SOUTH SANDWICH ISLANDS REGION											
APR	26	BUB	IPU	0	37	41.7		N 38 .8	1.0		
APR	26	BUB	IPD	9	53	39.5		N 53 53.8	1.5		
APR	26	BUB	IPU	10	3	03.7		N 3 18.3	2.0		
APR	26	BUB	IPD	14	23	58.4		E 24 3.5	1.7		
APR	26	BUB	EPU	17	27	23.2				1.1	
ZUR		EPU	17	27	25.2					1.6	
*ERL	:	HQ=	17	15	.2			LAT=37.123N	LON=116.059W	Z= 0KM	MB=5.6
SOUTHERN NEVADA											
APR	26	BUB	PKP	20	45	37.3				1.8	
*ERL	:	HQ=	20	26	28.0			LAT=19.933N	LON=155.100W	Z= 50KM	MB=6.0
HAWAII											
APR	27	BUB	IPU	0	35	34.0				1.1	
ZUR		EPU	0	35	34.2					2.3	
*ERL	:	HQ=	0	31	3.0			LAT=38.709N	LON= 33.004E	Z= 33KM	MB=4.6
TURKEY											
APR	28	BUB	EP	3	2	45				1.8	
*ERL	:	HQ=	2	58	27.5			LAT=34.252N	LON= 26.324E	Z= 33KM	MB=4.4
CRETE											
APR	28	BAS	EP	9	45	48					
ZUR		IPD	9	45	48.8			E 46 9.5			
BUB		IPD	9	45	53.7			E 46 12.8	1.4		
DIX		SP	9	46	01.8			46 6.1			
*SED	:	HQ=	9	45	22.2			LAT=46N14.4	LON= 6E55.3	Z= 13KM	ML=2.0
RMS= .63S ERH=17.2KM ERZ=27.0KM D3=106KM NO= 9											
REGION MARTIGNY, KT. VALAIS (CH)											
APR	28	BUB	EPU	12	34	02				1.1	
*ERL	:	HQ=	12	21	11.7			LAT= 1.438S	LON= 79.875W	Z=109KM	MB=5.5
ECUADOR											
APR	28	DIX	P	13	20	31.5		20 36.0			
BUB		EP	13	20	50.0			E 21 10.4	2.3		
		P	13	20	52.5			E 21 12.9	2.0		
BAS		P	13	20	59						
*SED	:	HQ=	13	20	24.6			LAT=46N23.6	LON= 7E33.4	Z= 14KM	ML=2.5
RMS= .65S ERH=17.2KM ERZ=16.0KM D3=133KM NO=14											
REGION SION, KT. VALAIS (CH)											
APR	29	BUB	EPD	14	41	46.7				1.1	
*ERL	:	HQ=	14	37	53.9			LAT=34.642N	LON= 4.073W	Z= 19KM	MB=4.6
MOROCCO											

NO DY STA PRK H H S S RSK M S LSS APT RK

APR 30 BUB PKP 8 57 48.9 1.3
*ERL : HU= 8:39:17.7 LAT=17.514S LON=179.623E Z=613KM MB=5.4
FIJI ISLANDS

APR 30 BUB EPD 15 53 45.3 1.3
*ERL : HU= 15:48:24.8 LAT=43.343N LON= 43.766E Z= 46KM MB=4.2
WESTERN CAUCASUS

MAY 01 BUB PKP 8 1 48.2 1.6
ZUR PKP 8 1 54.4
*ERL : HU= 8:1:55.5 LAT=17.960S LON=178.307W Z=596KM MB=5.0
FIJI ISLANDS REGION

MAY 02 BUB EPD 23 21 36.6 2.6
*ERL : HU= 23:17:11.6 LAT=36.471N LON= 12.326W Z= 33KM MB=4.4
NORTH ATLANTIC OCEAN

MAY 03 BUB EPD 11 37 16.4 1.8

MAY 03 BUB EPD 15 11 34.5 N 11 41.8 1.1

MAY 04 BUB IPD 20 50 21.7 N 50 39.7 1.1

MAY 04 BUB IPU 21 50 21.6 N 50 41.2 1.1

MAY 04 BUB IPD 22 40 19.2 N 40 42.0 1.1

MAY 05 ZUR EPU 0 9 11.0 1.9
BUB EPD 0 9 11.2
*ERL : HU= 23:56:16.1 LAT= 1.468S LON= 99.851E Z= 51KM MB=5.9
SOUTHERN SUMATRA

MAY 05 BUB EPD 4 4 01.7 2.1
*ERL : HU= 4:4:15.0 LAT=37.129N LON=141.323E Z= 41KM MB=5.4
NEAR EAST COAST OF HONSHU, JAPAN

MAY 05 ZUR IPD 22 29 30.5 E 29 37.5 2.3
BUB IPD 22 29 35.5 N 29 46.2 1.9
BAS IP 22 29 37.9 N 29 50.8 2.1
*SED : HU= 22:29:22.8 LAT=47N 7.6 LON= 9E 5.3 Z= 7KM ML=1.8
RMS= .33S ERH= 7.6KM ERZ= 7.2KM D3=123KM NO= 7
REGION HOLLIS, KT. GLARUS (CH)
ID= III (HKS) R= < 10 KM
MAGNITUDE (CALC. FROM ID)= 2.3
INTENS. (HKS): HOLLIS (10) III, OBERURNEN (6) III,
NAEFELS (4) III, NIEDERURNEN (6) II-III
GLARUS II

MAY 06 BUB IPD 3 16 55.7 N 17 16.4 1.5

MAY 06 BUB EPD 4 58 48.8 59 3.4 1.2
*BCIS: HU= 4:57:45.0 LAT=47.4N LON= 15.0E
AUSTRIA

MAY 06 BUB IPD 8 18 40.7 E 18 49.6 2.3
ZUR IP 8 18 48.1 N 19 1.2 2.5
*BCIS: HU= 8:18:29.0 LAT=48.3N LON= 9.0E
GERMANY

MAY 06 BUB EPU 14 50 27.0 2.2
ZUR EP 14 50 23
*ERL : HU= 14:39:28.1 LAT=43.517N LON=132.256E Z=497KM MB=5.3
NEAR E. COAST OF EASTERN RUSSIA

MAY 06 BUB IPU 15 36 16.3 N 36 32.5 1.4
P 15 N 36 36.2

MAY 06 ZUR IPU 21 33 01.9 E 33 41.0 1.5
BUB IPU 21 33 05.7 N 33 48.3

MAY 08 BUB PKP 1 3 04.1 1.3
ZUR PKP 1 3 05.2 1.6
*ERL : HU= 0:43:14.9 LAT=15.716S LON=167.833E Z=153KM MB=5.2
NEW HEBRIDES ISLANDS

MAY 08 ZUR PKP 5 3 46.0 1.9
BUB PKP 5 3 45.0 1.7
*ERL : HU= 4:44:56.4 LAT=17.599S LON=178.932W Z=543KM MB=5.3
FIJI ISLANDS REGION

MAY 08 ZUR IPD 19 8 56.8 9 9.8 3.1
BUB IPU 19 9 01.8 9 26.5
P 19 9 00.8 9 25.9 2.8
BAS P 19 9 03.1 9 37.5
*ERL : HU= 19:18:23.9 LAT=45.662N LON= 9.709E Z= 33KM
NORTHERN ITALY
INTENS. (HKS): ANDEER (2) II, ZILLIS II, DISENTIS III, SAMEDAN
(3) III, TIEFENCASTEL III,
CASTASEGNA (2) II-III, SILS I. D. (2)
II-III, ST. MORITZ II-III, AVERS II-III,
CHUR (5) II, ZUOZ II

MAY 09 BUB IPU 18 53 40.2 N 53 56.2 1.4

MAY 11 LIN ESP 18 3 47.6 E 3 52.7 1.4
BUB IPD 18 4 09.1 4 34.7

MAY 14 ZUR EP 2 31 17.0 1.6
BUB EPU 2 31 15.5 1.9
*ERL : HU= 2:19:1.6 LAT=44.062N LON=148.223E Z= 64KM MB=5.5
KURIL ISLANDS

MAY 14 BUB PKP 17 30 53.2 2.3
ZUR PKP 17 30 54.0
BAS PKP 17 30 54
*ERL : HU= 17:11:13.8 LAT=16.646S LON=175.866E Z= 54KM MB=5.8
FIJI ISLANDS REGION

MO	DAY	STA	PRK	H	M	S	SRK	M	S	LOG	A/T	RK						
MAY	15	BUB	IP	17	59	49.0	E	60	6.8	1.5								
			P	17			E	60	9.6									
MAY	15	ZUR	IPD	22	51	42.9		52	19.9	2.4								
			P	22	51	49.4		52	28.5									
		BUB	IPD	22	51	42.9		52	18.6	2.4								
			P	22	51	50.9		52	29.5									
		LTN	ESP	22	51	44.3		52	17.6									
		BAS	P	22	52	02												
		*ERL	H0=	22	50	54.7	LAT=47.165N LON= 12.912E Z= 10KM											
			AUSTRIA															
MAY	16	BUB	EP	14	29	37				.8								
MAY	18	BUB	EP	10	49	06.8				2.2								
		ZUR	EP	10	49	09.0												
		BAS	EP	10	49	10												
		*ERL	H0=	10	36	53.3	LAT=44.586N LON=149.334E Z= 33KM MB=5.4											
			KURIL ISLANDS															
MAY	20	BUB	IPD	21	7	43.1	E	7	48.2	1.5								
		ZUR	IPD	21	7	44	E	7	49.8									
MAY	21	ZUR	IPU	14	46	47.9		46	53.2	1.9								
		BUB	IPD	14	46	48.3		46	53.7	2.2								
MAY	22	BUB	IPD	16	2	02.7	E	2	16.1	1.4								
MAY	23	ZUR	EP	5	6	05	E	6	11.5									
		BUB	IPD	5	6	06.4	E	6	14.4									
		*SED	H0=	5	5	57.6	LAT=47N28.4 LON= 8E 2.1 Z= 18KM ML=1.4											
			RMS=	0.295	ERH=	9.8KM	ERZ= 9.0KM D3=135KM NO= 6											
			REGION AARGAU, KT. AARGAU (CH)															
MAY	23	ZUR	IPD	22	7	26.6	N	7	42.7	2.8		G						
			P	22	7	27.8		7	45.8			G						
		BUB	IPU	22	7	32.7	N	7	50.3	2.2		G						
			P	22	7	33.7		7	51.8			G						
		DIX	SP	22	7	41.5		8	7.3			G						
		*SED	H0=	22	7	7.8	LAT=46N43.2 LON= 9E45.1 Z= 2KM ML=2.6											
			RMS=	0.685	ERH=	20.2KM	ERZ=26.1KM D3=144KM NO= 9											
			REGION AROSA, KT. GRAUBUENDEN (CH)															
			ID= III (HKS) R= 30 KM															
			MAGNITUDE (CALC. FROM ID)= 2.3															
			INTENS. (MSK): THUSIS III, BERGUEN III, SUMMAPRADA III, TSCHIERTSCHEN III, ALVANEU BAD III, ZUOZ III, CHURWALDEN II-III, ZILLIS II-III, FILISUR II-III, CHUR II-III, DAVOS PLATZ II-III, PROMOTOGNA II-III, LA PUNT II-III, PONTRESINA II-III, JENAZ II-III, SAHEDAN II-III, SCHARANS II-III															
MAY	24	BUB	EPD	18	59	23.4				1.6								
		ZUR	EP	18	59	25.5				2.2								
		*ERL	H0=	18	47	11.6	LAT=51.627N LON=173.436W Z= 43KM MB=5.4											

PAGE 30 SEISMIC BULLETIN 1973 SED									
MO	DAY	STA	PRK	H	M	S	SRK	M	S
LOG A/T RK									
JUN	04	BUB	EPD	7	42	02.0	E	42	14.7
									1.2
JUN	05	BUB	PKP	2	26	50.7			
		ZUR	PKP	2	26	51.1			
		*ERL	H ₀ =	2:7:12.5	LAT=17.300S LON=167.801E Z= 12KM MB=5.2				
			NEW HEBRIDES ISLANDS						
JUN	05	BUB	PKP	3	32	02.6			
		ZUR	PKP	3	32	03.2			
		BAS	PKP	3	32	04.4			
		*ERL	H ₀ =	3:12:25.8	LAT=17.192S LON=167.814E Z= 24KM MB=5.6				
			NEW HEBRIDES ISLANDS						
JUN	05	BUB	PKP	7	55	13.2			
		ZUR	PKP	7	55	14.1			
		*ERL	H ₀ =	7:35:15.3	LAT=17.361S LON=167.698E Z= 15KM MB=4.7				
			NEW HEBRIDES ISLANDS						
JUN	05	ZUR	PKP	9	24	10.1			
		BUB	PKP	9	24	10.1			
		*ERL	H ₀ =	9:14:32.9	LAT=17.338S LON=167.793E Z= 21KM MB=5.0				
			NEW HEBRIDES ISLANDS						
JUN	05	ZUR	IPU	13	48	09.1	E	48	42.0
		BUB	IPD	13	48	11.3	N	48	50.2
		BAS	EP	13	48	12.6			
		*ERL	H ₀ =	13:47:47.7	LAT=44.667N LON= 9.515E Z= 33KM MB=4.1				
			NORTHERN ITALY						
JUN	06	BUB	IPD	13	12	22.7			
		ZUR	EPD	13	12	24.5			
		*ERL	H ₀ =	13:08:01.1	LAT=37.245N LON=116.346W Z= 0KM MB=6.1				
			SOUTHERN NEVADA						
JUN	06	ZUR	PKP	18	20	57.1			
		BUB	PKP	18	20	59.1			
		*ERL	H ₀ =	18:11:17.8	LAT=17.498S LON=167.749E Z= 21KM MB=4.9				
			NEW HEBRIDES ISLANDS						
JUN	06	BAS	EP	20	38	29.1			
		ZUR	IPU	20	38	33.8	N	39	11.8
		BUB	IPD	20	38	36.6	E	39	14.2
			P	20	38	41.4	N	39	22.0
			P	20	38	46.4	E	39	27.4
		*ERL	H ₀ =	20:37:14.5	LAT=45.549N LON= 12.009E Z= 30KM MB=4.0				
			NORTHERN ITALY						
JUN	06	ZUR	EP	21	13	29.1			
		BUB	IPU	21	13	31.9			
		BAS	EP	21	13	57.1			
		*ERL	H ₀ =	21:11:20.5	LAT=42.377N LON= 18.645E Z= 16KM MB=4.6				
			YUGOSLAVIA						
JUN	06	ZUR	PKP	21	46	29.1			
		BUB	PKP	21	46	31.1			
		*ERL	H ₀ =	21:26:40.5	LAT=17.446S LON=167.605E Z= 5KM				
			NEW HEBRIDES ISLANDS						
JUN	07	BUB	IPD	0	43	16.2	E	43	18.3
									1.5
JUN	07	BUB	IPU	15	19	34.9	E	19	39.4
									1.2
JUN	07	ZUR	EP	18	45	17.1			
		BUB	IP	18	45	18.1			
		*ERL	H ₀ =	18:32:42.9	LAT=14.277N LON= 92.008W Z= 78KM MB=5.5				
			NEAR COAST OF CHIAPAS, MEXICO						
JUN	08	BAS	PKP	1	20	49.1			
		BUB	PKP	1	20	49.4			
		ZUR	PKP	1	20	50.5			
		*ERL	H ₀ =	1:11:11.4	LAT=17.467S LON=167.736E Z= 21KM MB=5.2				
			NEW HEBRIDES ISLANDS						
JUN	08	BUB	IPD	10	16	59.1	E	17	12.1
									1.4
JUN	08	BUB	IPD	19	11	14.7	E	11	22.4
		ZUR	IPU	19	11	23.3	E	11	34.8
									2.0
JUN	08	ZUR	PKP	19	39	04.1			
		BUB	PKP	19	39	04.2			
		*ERL	H ₀ =	19:19:24.4	LAT=17.601S LON=167.661E Z= 11KM MB=4.9				
			NEW HEBRIDES ISLANDS						
JUN	09	BUB	IPU	1	56	10.7	E	56	26.3
									1.1
JUN	09	ZUR	PKP	8	40	39.1			
		BUB	PKP	8	40	41.1			
		BAS	PKP	8	40	46.1			
		*ERL	H ₀ =	8:21:27.3	LAT=10.294S LON=161.362E Z= 70KM MB=6.3				
			SOLOMON ISLANDS						
JUN	09	BUB	IPD	11	58	20.7	E	58	35.5
		ZUR	IPD	11	58	21.6	E	58	38.6
									1.1
JUN	09	BUB	EPD	22	57	49.6			
		ZUR	EPD	22	57	51.4			
		*ERL	H ₀ =	22:45:58.9	LAT=52.911N LON=160.080E Z= 33KM MB=5.4				
			OFF EAST COAST OF KAMCHATKA						
JUN	11	BUB	IPU	3	17	00.2			
		BAS	P	3	17	09.2			
		*ERL	H ₀ =	3:15:39.3	LAT=46.193N LON= 16.093E Z= 11KM MB=4.5				
			YUGOSLAVIA						
JUN	11	ZUR	EPD	8	53	53.1			
		BUB	EP	8	53	53.1			
		BAS	EP	8	53	59.1			
		*ERL	H ₀ =	8:42:04.0	LAT=53.693N LON=161.594E Z= 30KM MB=5.6				
			OFF EAST COAST OF KAMCHATKA						

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MO	DAY	STA	PRK	H	M	S	SRK	M	S
							LOG	A/T	RK
JUN	12	ZUR	EPD	14	33	13.8			
		BUB	IP	14	33	14.1			1.9
		*ERL	H ₀ =	14:21:24.2	LAT=53.625N LON=161.590E Z= 33KM MB=5.4				
			OFF EAST COAST OF KAMCHATKA						
JUN	12	BUB	IPD	21	4	08.1	E	4	59.2
		ZUR	IPD	21	4	08.6	E	4	59.0
			P	21	4	26.5		5	25.4
			P	21	4	30		5	25.0
		BAS	EP	21	4	37			
		*ERL	H ₀ =	21:4:56.9	LAT=47.569N LON= 15.332E Z= 5KM MB=4.8				
			AUSTRIA						
JUN	13	BUB	EP	0	32	44			2.2
		ZUR	EPD	0	32	45.5			2.6
		BAS	P	0	32	49			
		*ERL	H ₀ =	0:20:49.5	LAT=46.973N LON=150.989E Z=142KM MB=5.5				
			KURIL ISLANDS						
JUN	13	BUB	PKP	7	1	07			1.3
		ZUR	PKP	7	1	07.8			1.6
		*ERL	H ₀ =	6:41:27.3	LAT=20.043S LON=169.694E Z= 41KM MB=5.5				
			NEW HEBRIDES ISLANDS						
JUN	13	ZUR	IPU	16	36	01.8	E	36	9.5
									2.2
JUN	13	ZUR	EP	16	43	02	E	43	8.5
									2.3
JUN	13	ZUR	IPU	16	51	02.9	E	51	10.7
									2.0
JUN	13	ZUR	IPU	16	57	27.7	E	57	35.0
									2.0
JUN	13	DIX	P	17	21	40.0		21	45.0
		ZUR	IPU	17	22	02.4	E	22	26.1
		BUB	IPU	17	22	10.0	E	22	36.3
		*SED	H ₀ =	17:21:33.5	LAT=45N55.3 LON= 6E59.6 Z= 10KM ML=2.5				
			RHS= 285 ERH=40.8KM ERZ=22.9KM D3=202KM NO= 7						
			REGION CHAMONIX, FRANCE						
JUN	14	BUB	IPU	0	46	20.2	E	46	30.4
									1.6
JUN	14	BUB	IPU	1	18	40.6	E	18	51.7
									1.7
JUN	14	BUB	IPU	5	56	06.2	E	56	16.5
		ZUR	IPU	5	56	10.1	E	56	26.4
		*BCIS	H ₀ =	5:55:51.0	LAT=48.7N LON= 9.0E				
			GERMANY						
JUN	14	ZUR	IP	20	50	18.3	E	50	29.2
		DIX	SP	20	50	21.3	E	50	31.8
		BUB	IPU	20	50	24.4	E	50	38.4
			P	20	50	26.2	E	50	39.9
		*SED	H ₀ =	20:50:4.0	LAT=46N40.5 LON= 8E 8.8 Z= 16KM ML=2.1				
			RHS= 725 ERH=32.0KM ERZ= 8.2KM D3=124KM NO= 9						
			REGION BRIENZER SEE, KT. BERN (CH)						
			IO= III (HKS) R= < 16 KM						
			MAGNITUDE (CALC. FROM IO)= 2.3						
			INTENS. (MSK): MEIRINGEN (10) III, LUNGERN (2) III, BRUNNIG-HASLIBERG (4) III, REUTI-HASLIBERG III, GOLDERN-HASLIBERG III, HAUSEN B. MEIRINGEN III, UNTERBACH (3) II-III, BRIENZWILER (2) II-III, BRIENZ II-III						
JUN	15	BUB	IPU	9	4	01.2	E	4	21.7
									1.2
JUN	15	BUB	EP	11	32	33.7			2.0
		ZUR	EP	11	32	35			2.2
		BAS	EP	11	32	36			
		*ERL	H ₀ =	11:20:51.5	LAT=53.529N LON=161.495E Z= 33KM MB=5.6				
			OFF EAST COAST OF KAMCHATKA						
JUN	15	BUB	EPD	12	23	13.7			1.6
		ZUR	EP	12	23	15.7			
		*ERL	H ₀ =	12:11:2.3	LAT=51.304N LON=179.392W Z= 48KM MB=5.8				
			ANDREANOF ISLANDS, ALEUTIAN IS.						
JUN	15	BUB	IPU	13	50	34.2	N	50	46.2
									1.2
JUN	15	BUB	EPD	21	21	28.4			1.4
		ZUR	EP	21	21	30.8			
		*ERL	H ₀ =	21:9:41.7	LAT=53.564N LON=161.551E Z= 45KM MB=5.5				
			OFF EAST COAST OF KAMCHATKA						
JUN	15	BUB	PKP	23	25	17			0.8
		ZUR	PKP	23	25	19.4			1.6
		*ERL	H ₀ =	23:4:58.5	LAT=25.916S LON=177.411W Z= 94KM MB=5.6				
			SOUTH OF FIJI ISLANDS						
JUN	17	BUB	IPD	4	7	18.2			3.0
		ZUR	EPD	4	7	19.7			4.7
		BAS	P	4	7	21			
		*ERL	H ₀ =	3:55:2.9	LAT=43.233N LON=145.785E Z= 48KM MB=6.5				
			HOKKAIDO, JAPAN REGION						
JUN	17	BUB	EP	13	45	44.2			1.6
		ZUR	EPD	13	45	45.7			
		BAS	EP	13	45	51			
		*ERL	H ₀ =	13:33:28.3	LAT=43.069N LON=145.375E Z= 46KM MB=5.6				
			HOKKAIDO, JAPAN REGION						
JUN	17	BUB	EPD	26	50	15.8			2.5
		ZUR	EP	20	50	17			
		BAS	EP	20	50	22			
		*ERL	H ₀ =	20:37:57.3	LAT=42.706N LON=146.041E Z= 50KM MB=6.0				
			OFF COAST OF HOKKAIDO, JAPAN						
JUN	18	BUB	IPU	17	2	51.7	E	3	2.9
									1.4
JUN	18	BUB	EP	17	58	06			1.4
		ZUR	EPD	17	58	06.6			
		*ERL	H ₀ =	17:45:43.7	LAT=42.498N LON=145.969E Z= 29KM MB=5.8				
			OFF COAST OF HOKKAIDO, JAPAN						

PAGE 32 SEISMIC BULLETIN 1973 SED									
MO	DY	STA	PRK	H	M	S	SRK	M	S
LOG A/T RK									
JUN	22	BUB	IPU	19	18	22.2	E	18	37.9
JUN	21	ZUR	EP	4	22	56.5		23	6.0
JUN	23	ZUR	EP	2	22	00			
BUB		EP		2	22	00			
BAS		EP		2	22	06			
*ERL		HQ=		2	9	40.1	LAT=43.182N	LON=147.330E	Z= 41KM MB=5.5
		KURIL ISLANDS							
JUN	24	BUB	IPD	2	55	42.3			
ZUR		EP		2	55	43.2			
BAS		P		2	55	45			
*ERL		HQ=		2	43	25.5	LAT=43.318N	LON=146.442E	Z= 50KM MB=6.3
		KURIL ISLANDS							
JUN	24	BUB	EPD	5	20	04.7			
ZUR		EP		5	20	06			
*ERL		HQ=		5	7	46.8	LAT=43.125N	LON=146.574E	Z= 44KM MB=5.8
		KURIL ISLANDS							
JUN	26	ZUR	EP	18	14	43			
*ERL		HQ=		18	2	24.1	LAT=43.018N	LON=147.110E	Z= 39KM MB=5.6
		KURIL ISLANDS							
JUN	26	ZUR	EPD	19	9	37.0			
BUB		EPD		19	9	38.3			
*ERL		HQ=		19	5	21.9	LAT=34.338N	LON= 26.134E	Z= 38KM MB=4.8
		CRETE							
JUN	26	ZUR	EPD	22	44	16.7			
BUB		EPD		22	44	18.4			
BAS		P		22	44	19			
*ERL		HQ=		22	32		LAT=43.175N	LON=146.560E	Z= 50KM MB=5.8
		KURIL ISLANDS							
JUN	29	BUB	EPD	3	39	07.7			
BAS		P		3	39	10			
*ERL		HQ=		3	26	53.2	LAT=43.402N	LON=145.801E	Z= 50KM MB=5.9
		HOKKAIDO, JAPAN REGION							
JUN	30	BUB	P	10	55	47.7	E	56	2.5
JUL	01	BUB	EPD	13	44	51.0			
BAS		P		13	44	51.0			
ZUR		EPD		13	44	52.8			
*ERL		HQ=		13	33	34.6	LAT=57.846N	LON=137.330W	Z= 33KM MB=6.1
		OFF COAST OF SOUTHEASTERN ALASKA							
JUL	02	BUB	EPD	1	10	13.4			
ZUR		EP		1	10	15			
*ERL		HQ=		1	4	55.9	LAT=49.519N	LON= 28.516W	Z= 33KM MB=5.0
		NORTH ATLANTIC RIDGE							
JUL	02	ZUR	EPD	6	8	02			
*ERL		HQ=		5	56	12.4	LAT=54.043N	LON=164.092E	Z= 33KM MB=5.4
		KOMANDORSKY ISLANDS REGION							
JUL	02	DIX	SP	11	1	33.9			
ZUR		IPU		11	1	31.3			
BUB		IPD		11	1	55.7			
BAS		EP		11	1	55.7			
*SED		HQ=		11	1	63.0	LAT=46N14.3	LON= 6E41.8	Z= 21KM ML=2.8
		RMS= .215 ERH= 2.5KM ERZ= 3.0KM D3= 83KM NO= 9							
*ERL		HQ=		11	1	26.7	LAT=46.736N	LON= 6.798E	Z= 33KM
		HAUTE SAVOIE, FRANCE							
JUL	02	BUB	IP	12	46	25	E	46	34.7
JUL	03	BUB	EPD	7	17	18.8			
ZUR		EP		7	17	20.7			
*ERL		HQ=		7	3	43.9	LAT=12.205N	LON=125.330E	Z= 33KM MB=6.1
		SAHAR, PHILIPPINE ISLANDS							
JUL	03	BUB	EPD	13	27	39.0			
JUL	03	ZUR	EP	15	32	04			
JUL	03	BAS	EP	16	10	42			
ZUR		EP		16	10	32			
*ERL		HQ=		16	10	12.4	LAT=44.075N	LON= 13.273E	Z= 47KM MB=5.3
		ADRIATIC SEA							
JUL	03	BUB	EPD	17	10	52			
BAS		EP		17	10	51			
ZUR		EPD		17	10	54			
*ERL		HQ=		16	59	35.1	LAT=57.980N	LON=138.021W	Z= 33KM MB=6.0
		SOUTHEASTERN ALASKA							
JUL	05	ZUR	EPD	1	11	03.7			
BUB		EPD		1	11	04			
*ERL		HQ=		0	53	45.0	LAT=43.988N	LON=147.849E	Z= 40KM MB=5.5
		KURIL ISLANDS							
JUL	05	ZUR	EP	8	0	22			
*ERL		HQ=		7	49	4.5	LAT=57.905N	LON=137.902W	Z= 33KM MB=5.4
		OFF COAST OF SOUTHEASTERN ALASKA							
JUL	05	ZUR	EPD	22	59	48			
BUB		EPD		22	53	49.2			
*ERL		HQ=		22	46	16.3	LAT=13.225N	LON=124.699E	Z= 38KM MB=5.6
		LUZON, PHILIPPINE ISLANDS							
JUL	06	DIX	SP	11	6	04.7			
ZUR		IPD		11	6	20.2			
BUB		IPU		11	6	27.7			
*SED		HQ=		11	5	59.2	LAT=46N13.4	LON= 7E29.7	Z= 21KM ML=2.6
		RMS= .575 ERH= 6.2KM ERZ= 5.3KM D3=144KM NO=15							

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MO	DY	STA	PRK	H	M	S	SRK	M	S
							LOG A/T	RK	
JUL	06	BUB	REGION SION, KT. VALAIS (CH)				1.4		
		IPD	16	4	18.3	E	4	23.2	
JUL	07	ZUR	PKP	2	46	56.4			1.6
		BUB	PKP	2	46	58.6			1.1
		*ERL	H0= 2:27:24.8 LAT=19.077S LON=168.821E Z= 93KM MB=5.6						
			NEW HEBRIDES ISLANDS						
JUL	08	BUB	EPU	2	29	42.9	N	30	1.5
JUL	08	LIN	IPD	3	58	44.2		58	50.6
		ZUR	IPD	3	58	51.7	E	59	5.7
		IPD	3	58	53.8		59	9.4	2.7
		BUB	IPD	3	58	56.6	N	59	14.6
		IPD	3	58	57.4		59	15.8	2.5
		BAS	P	3	59	04			
		DIX	SP	3	59	05.3		59	25.5
		*SED	H0= 3:58:34.1 LAT=46N44.2 LON= 9E36.4 Z= 7KM ML=2.7						
			RMS= .285 ERH= 9.4KM ERZ= 7.0KM D3=136KM NO=11						
			REGION AROSA, KT. GRAUBUENDEN (CH)						
			I0= II (MKS) R= 15 KM						
			INTENS. (MSK): ALVANEU II, ANDEER II, AROSA II, BERGUEN II, THUSIS II, LENZERHEIDE II, SCHWANDEN II, TOMILS II, VALBELLA II, SILS I.D. II, WIESEN II						
		*ERL	H0= 3:58:31.2 LAT=46.583N LON= 9.974E Z= 33KM						
			NORTHERN ITALY						
JUL	08	BUB	EPD	4	15	23.6			1.8
		ZUR	EP	4	15	24			1.6
		*ERL	H0= 4:13:34.5 LAT= 6.790N LON= 72.982W Z=156KM MB=5.7						
			NORTHERN COLOMBIA						
JUL	08	LIN	ESP	5	0	21.8		0	28.1
		ZUR	IPD	5	0	29.1	E	0	43.0
		IPD	5	0	31.3		0	46.7	2.2
		BUB	IPU	5	0	34.2		0	51.5
		IPD	5	0	35.3	N	0	52.6	2.1
		DIX	SP	5	0	45.0		1	4.5
		*SED	H0= 5:01:12.8 LAT=46N50.6 LON= 9E39.0 Z= 2KM ML=2.2						
			RMS= .415 ERH=20.4KM ERZ=22.4KM D3=128KM NO=11						
			REGION AROSA, KT. GRAUBUENDEN (CH)						
			I0= II (MKS) R= < 10 KM						
			INTENS. (MSK): ALVANEU II, BERGUEN II, LENZERHEIDE II, VALBELLA II, SILS I. D. II						
JUL	08	LIN	ESP	5	0	58.5		3	5.0
		ZUR	IPD	5	0	59.9	E	3	20.0
		IPD	5	0	58.1		3	23.4	2.2
		BUB	EP	5	0	11.0	N	3	28.1
		IPD	5	0	12.1		3	30.3	1.9
		DIX	SP	5	0	20.5		3	44.0
		BAS	EP	5	0	30.5			
		*SED	H0= 5:02:14.8 LAT=46N49.0 LON= 9E39.8 Z= 2KM ML=2.2						
			RMS= .200 ERH= 4.6KM ERZ= 5.5KM D3=131KM NO=11						
			REGION AROSA, KT. GRAUBUENDEN (CH)						
			I0= II (MKS) R= < 10 KM						
			INTENS. (MSK): ALVANEU II, BERGUEN II, WIESEN II						
JUL	08	LIN	ESP	5	0	23.4		9	29.6
		ZUR	IPD	5	0	31.0	E	9	45.1
		IPD	5	0	33.2		9	48.7	2.2
		BUB	EPD	5	0	36.1	N	9	53.3
		IPD	5	0	37.2		9	55.5	1.9
		DIX	P	5	0	45.9		10	9.0
		*SED	H0= 5:03:14.4 LAT=46N50.9 LON= 9E40.1 Z= 2KM ML=2.2						
			RMS= .445 ERH= 6.7KM ERZ= 7.4KM D3=129KM NO=13						
			REGION AROSA, KT. GRAUBUENDEN (CH)						
			I0= II (MKS) R= < 10 KM						
			INTENS. (MSK): ALVANEU II, BERGUEN II, SILS I. D. II, WIESEN II						
JUL	08	BUB	IPU	5	11	39.9	E	11	48.6
JUL	08	LIN	ESP	5	12	37.6		12	43.9
		ZUR	IPD	5	12	43.1	E	12	58.9
		IPD	5	12	47.0		13	2.5	2.5
		BUB	IPD	5	12	50.2	N	13	7.4
		IPD	5	12	50.4		13	9.7	2.2
		BAS	P	5	12	50			2.4
		DIX	SP	5	12	01.5			
		*SED	H0= 5:12:28.5 LAT=46N48.8 LON= 9E37.2 Z= 2KM ML=2.5						
			RMS= .263 ERH= 4.1KM ERZ= 5.5KM D3=129KM NO=13						
			REGION AROSA, KT. GRAUBUENDEN (CH)						
			I0= II (MKS) R= < 10 KM						
			INTENS. (MSK): ALVANEU II, BERGUEN II, LENZERHEIDE II, VALBELLA II, SILS I. D. II, WIESEN II						
JUL	08	BUB	IPD	7	42	36.6		42	55.0
JUL	08	BUB	P	7	56	36	N	56	54.5
		IPD	7	56	38.2	N	56	56.7	1.7
JUL	08	ZUR	IPU	13	45	20.8	E	45	55.4
		BUB	IPD	13	45	24.8	E	46	4.8
		BAS	EP	13	45	55			1.9
		*ERL	H0= 13:44:31.7 LAT=44.390N LON= 9.793E Z= 33KM						
			NORTHERN ITALY						
JUL	09	LIN	ESP	0	27	13.2		27	19.0
		ZUR	IPD	0	27	20.7	E	27	34.9
		IPD	0	27	23.0		27	38.6	3.5
		BUB	IPU	0	27	25.8	E	27	42.9
		IPD	0	27	27.0		27	45.3	2.7
		BAS	EP	0	27	31.0			2.8
		EP	0	27	33.6		27	55.0	
		NEU	P	0	27	34.6			
		DIX	SP	0	27	35.6		27	58.5
		NEU	P	0	27	37.2		28	2.0
		*SED	H0= 0:27:3.8 LAT=46N46.1 LON= 9E35.4 Z= 2KM ML=2.9						
			RMS= .585 ERH= 6.9KM ERZ= 7.3KM D3=132KM NO=17						

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PAGE 36	MO	DY	STA	PRK	H	M	S	SRK	M	S	LOG A/T	RK
	JUL	30	BUB	IP	15	42	17.5	N	42	38.2		
											4.1	
											2.9	
	AUG	01	ZUR	PKP	1	50	36					
			BUB	PKP	1	50	36.8					
			BAS	PKP	1	50	38					
			*ERL	HU=	1:31:30.9			LAT=14.264S	LON=167.274E	Z=200KM	MB=6.1	
				NEW	HEBRIDES ISLANDS							
	AUG	03	BUB	IPD	6	56	31.8	E	56	40.9		
				P	6	56	33.1	E	56	44.1		
			ZUR	IPU	6	56	37.2	E	56	48.7		
											1.8	
	AUG	01	BUB	IPU	7	28	44.1	E	28	58.7		
											1.4	
											3.1	
	AUG	05	ZUR	PKP	16	7	14					
			BAS	PKP	16	7	15					
			BUB	PKP	16	7	18.2					
			*ERL	HU=	15:47:32.9			LAT=16.231S	LON=173.110W	Z=33KM	MB=6.1	
				TONGA ISLANDS								
	AUG	06	BUB	IPD	15	28	40.7	E	28	46.2		
											1.7	
	AUG	07	BUB	IP	15	13	08.5	E	13	13.6		
											1.1	
	AUG	08	BUB	EP	14	38	25.5					
			*ERL	HU=	14:36:11.0			LAT=40.822N	LON=15.389E	Z=33KM	MB=4.7	
				SOUTHERN ITALY								
											1.6	
	AUG	09	ZUR	EP	10	56	42					
			BUB	EP	10	56	42					
			BAS	P	10	56	45					
			*ERL	HU=	10:44:26.5			LAT=43.446N	LON=146.433E	Z=55KM	MB=6.0	
				KURIL ISLANDS								
	AUG	10	BUB	IPU	9	22	21.6		22	35.2		
											1.6	
	AUG	11	ZUR	IPU	3	8	53.5		8	56.5		
			BUB	IPU	3	8	55.2		8	59.7		
											2.9	
											2.3	
	AUG	11	BAS	EP	7	26	28					
			ZUR	EP	7	26	47					
			BUB	EP	7	26	47.7					
			*GS	HU=	7:15:39.7			LAT=32.995N	LON=104.015E	Z=33KM	MB=5.4	
				KANSU PROVINCE, CHINA								
	AUG	11	ZUR	IPU	8	16	19.1	E	16	23.7		
				P	8	16	20.3	E	16	24.8		
											2.4	
	AUG	13	BUB	IPD	8	39	27.6	E	39	42.1		
											1.5	
	AUG	13	ZUR	PKP	8	47	03					
			BUB	PKP	8	47	04					
			*GS	HU=	8:28:19.7			LAT=4.471S	LON=144.042E	Z=112KM	MB=6.0	
				NEAR NORTH COAST OF NEW GUINEA								
	AUG	13	BAS	EP	16	39	09					
			BUB	IPU	16	39	32.8	E	39	46.7		
											1.4	
	AUG	16	BUB	EP	4	9	53					
			ZUR	EP	4	9	54					
			*ERL	HU=	3:58:10.7			LAT=23.052N	LON=101.110E	Z=33KM	MB=5.4	
				YUNNAN PROVINCE, CHINA								
	AUG	20	BUB	EP	15	21	24					
			ZUR	EP	15	21	25					
			BAS	EP	15	21	39					
			*ERL	HU=	15:18:28.3			LAT=45.735N	LON=26.477E	Z=73KM	MB=5.6	
				ROMANIA								
	AUG	21	DIX	P	2	13	45.0		13	54.8		
			ZUR	IP	2	13	51.2	E	14	1.8		
			BUB	IPU	2	13	56.0	N	14	12.2		
				P	2	13	57.4	N	14	14.7		
			*SED	HU=	2:13:33.6			LAT=46N29.4	LON=8E 1.3	Z=25KM	ML=1.9	
				RMS=.53S	ERH=17.8KM	ERZ=10.6KM	D3=147KM	NO=14				
				REGION BRIG, KT. VALAIS (CH)								
	AUG	21	BUB	IPU	13	39	52.7	N	40	5.3		
											1.3	
	AUG	21	BAS	P	14	55	37					
			BUB	IPU	14	55	45.5	E	55	55.9		
				P	14	55	46.8	E	55	58.2		
											1.4	
	AUG	22	BUB	EP	7	0	09					
											.8	
	AUG	22	BUB	IPU	13	39	56.5	E	40	11.6		
											1.1	
	AUG	22	BUB	IPD	18	26	14.0					
			BAS	EP	18	26	14					
			ZUR	EP	18	26	16.5					
			*GS	HU=	18:14:37.2			LAT=57.067N	LON=154.101W	Z=38KM	MB=5.9	
				KODIAK ISLAND REGION								
	AUG	23	LIN	ESP	10	43	25.6					
			BUB	IPD	10	43	31.9					
			*SED	HU=	10:42:53.9			LAT=45N52.4	LON=7E 8.5	Z=15KM	ML=2.3	
				RMS=.36S	ERH=16.9KM	ERZ=13.0KM	D3=181KM	NO=7				
				REGION GRAND ST. BERNARD, KT. VALAIS (CH)								
	AUG	23	BUB	IPD	12	47	11.7	E	47	19.3		
											1.4	
	AUG	23	BUB	PKP	17	14	22					
			*ERL	HU=	16:55:25.9			LAT=5.378S	LON=151.491E	Z=78KM	MB=5.7	
				NORTH OF SOLOMON ISLANDS								
	AUG	24	BUB	EP	0	3	10.0					
			*GS	HU=	23:50:32.4			LAT=37.211N	LON=142.126E	Z=34KM	MB=5.7	
				OFF EAST COAST OF HONSHU, JAPAN								
	AUG	24	ZUR	EP	2	13	29					
			BUB	EP	2	13	30					
											1.4	

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MO	DY	STA	PRK	H	M	S	SRK	H	S	LOG A/T	RK	
AUG	24	*GS	HU=	21	61	1.6				LAT=27.832N LON= 52.734E Z= 33KM MB=5.1		
			SOUTHERN IRAN									
AUG	24	BUB	IPD	7	22	48.9	E	23	1.7	1.4		
AUG	24	BUB	P	7	23	46.2		23	59.2	1.4		
AUG	24	ZUR	PKP	20	40	48						
		BUB	PKP	20	40	48.4						
		*ERL	HU=	20:18:21.4						2.1		
			SOLOMON ISLANDS							LAT= 7.194S LON=156.035E Z= 62KM MB=5.8		
AUG	25	BUB	IPD	11	29	31.3	N	29	45.5	1.1		
AUG	25	BUB	EP	15	5	57.4				1.3		
		ZUR	EP	15	5	57.8						
		*GS	HU=	14:58:10.8						LAT=28.079N LON= 56.755E Z= 56KM MB=5.4		
			SOUTHERN IRAN									
AUG	28	BAS	P	16	3	12						
		BUB	EP	10	3	13.9				3.0		
		*GS	HU=	9:50:40.0						LAT=18.267N LON= 96.598W Z= 84KM MB=6.8		
			VERA CRUZ, MEXICO									
AUG	28	BAS	EP	15	11	12				3.0		
		BUB	EP	15	11	15						
		*GS	HU=	15:15:59.1						LAT= .189S LON= 18.027W Z= 33KM MB=5.8		
			CENTRAL MID-ATLANTIC RIDGE									
AUG	28	BUB	IPU	21	1	10.8	E	1	53.0	1.0		
		*BCIS	HU=	21:02:21.0						LAT=44.9N LON= 10.5E		
			NORTHERN ITALY									
AUG	29	BUB	IPU	8	34	51.6	E	35	6.3	1.5		
AUG	29	BUB	IPU	15	30	58.8				1.6		
		*GS	HU=	15:22:45.9						LAT=59.886N LON=149.122W Z= 51KM MB=3.3		
			KENAI PENINSULA, ALASKA									
AUG	30	BUB	EP	7	41	58				1.9		
		*GS	HU=	7:36:23.6						LAT=38.031N LON= 42.698E Z= 33KM MB=4.8		
			TURKEY									
AUG	30	BAS	EP	18	37	24				2.0		
		BUB	EP	18	37	25.7				1.9		
		ZUR	EP	18	37	27						
		*GS	HU=	18:25:43.1						LAT= 7.345N LON= 72.832W Z=181KM MB=5.7		
			NORTHERN COLOMBIA									
AUG	30	ZUR	EP	20	1	43				1.6		
		BUB	EP	20	1	43				1.4		
		*GS	HU=	19:50:2.9						LAT= 7.103N LON= 84.307E Z= 33KM MB=5.9		
			BAY OF BENGAL									
AUG	31	BUB	IPU	15	59	16.2	N	59	31.5	1.1		
SEP	01	BUB	IPD	2	51	13.3	N	51	24.2	1.1		
SEP	01	BUB	IPD	2	51	47.2	N	51	58.2	1.4		
SEP	01	BUB	EP	11	34	12				1.4		
		*GS	HU=	11:23:54.6						LAT=13.307S LON= 24.123E Z= 33KM MB=4.7		
			ZAMBIA									
SEP	01	DIX		21	35	00.0		35	8.0			
		BAS	EP	21	35	11						
		ZUR	IPD	21	35	18.7		35	40.7	2.4		
		BUB	IPU	21	35	23.2	E	35	49.0	1.8		
		*SED	HU=	21:34:49.1				LAT=46N14.1 LON= 6E38.8 Z= 13KM ML=2.5				
			RMS= .37S ERH= 2.7KM ERZ= 5.4KM D3= 79KM NO=14									
			HAUTE SAVOIE, FRANCE									
SEP	02	BUB	PKP	16	26	14.6				2.0		
		ZUR	PKP	16	26	15.3				2.3		
		*GS	HU=	16:6:33.5						LAT=19.253S LON=167.621E Z= 33KM MB=5.2		
			NEW HEBRIDES ISLANDS REGION									
SEP	03	BUB	IPU	1	36	52.6	E	37	15.0	.9		
SEP	03	BUB	PKP	3	42	33.7				1.5		
		ZUR	PKP	3	42	34.6				2.0		
		*GS	HU=	3:23:47.4						LAT=20.891S LON=178.959W Z=639KM MB=5.4		
			FIJI ISLANDS REGION									
SEP	03	BUB	IPD	9	2	36.8		2	51.7	1.4		
SEP	03	BUB	IPD	9	40	32.8		40	53.8	1.1		
SEP	03	BUB	IPD	15	56	38.4	E	56	50.2	1.5		
SEP	04	BUB	IPU	12	4	13.2	E	4	23.2			
		*GS	HU=	10:59:36.7						LAT=61.039N LON=146.828W Z= 29KM MB=5.5		
			SOUTHERN ALASKA									
SEP	06	BUB	EP	16	37	10.0				1.2		
SEP	07	BUB	IPU	8	30	18.8	N	30	33.9	1.4		
SEP	07	BUB	IPU	15	15	01.5	E	15	12.4	1.1		
SEP	08	BUB	EP	7	35	41				1.1		
		ZUR	EP	7	35	41						
SEP	04		IPU	12	4	15.1	E	4	26.2			
SEP	04	ZUR	EP	17	37	44				2.3		
		BUB	EP	17	37	44				2.8		
		*GS	HU=	17:24:59.4						LAT=14.984N LON= 94.301W Z= 51KM MB=5.2		
			NEAR COAST OF OAXACA, MEXICO									
SEP	05	BUB	EP	13	15	42.4				1.9		
		ZUR	EP	13	15	43				2.0		

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MO	DY	STA	PRK	H	M	S	SRK	M	S
LOG A/T RK									
SEP	05	BAS	EP	13	14	57			
		*GS		H ₀ =	13	3	13.9	LAT=39.488N	LON=143.111E
				OFF EAST COAST OF HONSHU, JAPAN					
SEP	05	BUB	IPU	16	2	06.5	E	2	20.0
SEP	06	BUB	IPU	8	36	34.5	N	36	44.6
			P	8			N	36	47.1
SEP	06	BUB	EP	11	10	45.5			
		*GS		H ₀ =	7	25	43.9	LAT=33.243N	LON=86.749E
				TIBET					
SEP	08	ZUR	EP	7	59	40			
		BUB	EP	7	59	40.7			
		*GS		H ₀ =	7	46	52.7	LAT=8.341S	LON=74.178W
				PERU-BRAZIL BORDER REGION					
SEP	09	BUB	EP	2	24	38			
		*GS		H ₀ =	2	13	39.4	LAT=31.650N	LON=100.013E
				SZECHWAN PROVINCE, CHINA					
SEP	09	ZUR	EP	8	42	04			
		BUB	EP	8	42	04			
		*GS		H ₀ =	8	32	14.8	LAT=7.112S	LON=12.841W
				ASCENSION ISLAND REGION					
SEP	09	BAS	EP	18	38	16			
		ZUR	EP	18	38	20			
		BUB	EP	18	38	20.5			
		*GS		H ₀ =	18	25	49.4	LAT=39.536N	LON=143.137E
				OFF EAST COAST OF HONSHU, JAPAN					
SEP	10	ZUR	EP	3	7	19			
		BUB	EP	3	7	19.7			
		*GS		H ₀ =	3	28	4.2	LAT=38.491N	LON=39.621E
				TURKEY					
SEP	10	BUB	EP	7	54	27.4			
		ZUR	EP	7	54	28.2			
		BAS	P	7	54	31			
		*GS		H ₀ =	7	43	30.5	LAT=42.453N	LON=130.907E
				E. RUSSIA-N.E. CHINA BORDER REG.					
SEP	11	DIX	P	16	12	54.6			
		ZUR	IPD	16	13	11.4			
			P	16	13	12.4			
		BUB	IPU	16	13	17.2	E	13	30.2
		*SED		H ₀ =	16	12	48.9	LAT=46N18.0	LON=7E2+8.8
				RMS=	.325	ERH=	10.7KM	ERZ=	11.5KM
				REGION SION, KT. VALAIS (CH)					
SEP	11	BUB	IPU	16	19	37.4	E	19	46.7
			P	16	19	39.4	E	19	50.2
SEP	11	BUB	EP	23	31	20.8			
		ZUR	EP	23	31	21.4			
		*GS		H ₀ =	23	18	50.8	LAT=25.645N	LON=124.509E
				NORTHEAST OF TAIWAN					
SEP	12	BUB	EP	7	6	30.4			
		ZUR	EP	7	6	33.5			
		BAS	P	7	6	34			
		*GS		H ₀ =	6	59	54.3	LAT=73.302N	LON=55.161E
				NOVAYA ZEILYA					
SEP	12	BUB	IPD	10	18	17.7	E	18	27.2
SEP	12	BUB	IPU	16	46	04.5			
							46	12.4	1.3
SEP	12	BUB	IPD	16	54	27.9	E	54	34.2
SEP	12	BUB	IPU	17	33	02.5	E	33	19.5
SEP	14	BUB	IPU	16	9	40.2	E	9	52.6
SEP	15	BUB	EPD	1	51	09.0			
		BAS	EP	1	51	09			
		ZUR	EP	1	51	11			
		*GS		H ₀ =	1	45	57.7	LAT=63.904N	LON=22.197W
				ICELAND REGION					
SEP	15	BUB	EP	2	7	21			
SEP	15	BUB	EP	4	37	52.5			
		*GS		H ₀ =	4	25	8.7	LAT=29.340N	LON=130.258E
				RYUKYU ISLANDS					
SEP	16	BAS	EP	21	31	55			
		BUB	EP	21	32	04			
		ZUR	EP	21	32	17			
		*GS		H ₀ =	21	26	53.5	LAT=63.935N	LON=22.233W
				ICELAND REGION					
SEP	16	BUB	EP	22	38	38			
		*GS		H ₀ =	22	33	28.4	LAT=63.867N	LON=22.353W
				ICELAND REGION					
SEP	17	BUB	PKP	7	41	21			
		ZUR	PKP	7	41	23			
		*GS		H ₀ =	7	21	47.4	LAT=17.320S	LON=174.343W
				TONGA ISLANDS					
SEP	17	BUB	EP	15	41	01.7			
		*GS		H ₀ =	15	37	20.4	LAT=35.847N	LON=21.862E
				MEDITERRANEAN SEA					
SEP	18	BUB	IPD	11	25	17.9	N	25	32.3
SEP	18	BUB	EP	13	11	18.2			
		ZUR	EP	13	11	18.6			

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MO	DY	STA	PRK	H	M	S	SRK	M	S	LOG A/T	RK
SEP	18	*GS		H0=	12	58	25.2	LAT=	7.034S	LON=	76.138W
				NORTHERN PERU							
SEP	18	BUB	IPD	17	6	07.2	N	6	13.6	.9	
SEP	19	BUB	IP	11	19	01.0	E	19	14.2	1.5	
SEP	19	BAS	EP	15	16	02					
		ZUR	IPU	15	15	16.0	N	15	21.6	2.7	
		BUB	IPU	15	15	16.7	E	15	22.2	2.1	
		*SED		H0=	15	15	9.7	LAT=	47N31.5	LON=	8E35.5
				RMS=	.165	ERH=	8.1KM	ERZ=	7.6KM	D3=	76KM
				REGION WINTERHUR, KT. ZUERICH (CH)							
SEP	19	BAS	EP	23	32	44					
		BUB	EP	23	33	07.9					
		*BCIS		H0=	23	29	4.0	LAT=	43.3N	LON=	1.1.3W
				FRANCE							
SEP	20	EMO	ESP	18	28	12.0		28	15.0		
		DIX	IP	18	28	12.0		28	13.5		
SEP	21	DIX	IPD	7	22	16.6		22	18.1		
		EMO	ESP	7	22	16.6		22	20.1		
SEP	21	BUB	IPU	10	50	39.2	E	50	45.8	1.2	
SEP	21	BUB	IPU	15	54	12.2	N	54	18.5	.8	
SEP	21	BUB	IPU	17	17	07.1	E	17	22.4		
			P	17	17	18.1		17	24.1	1.5	
SEP	21	BUB	PKP	19	47	12.8					
		ZUR	PKP	19	47	13				2.2	
				19	47	49.6				1.9	
		*GS		H0=	19	28	29.3	LAT=	26.120S	LON=	178.282E
				SOUTH OF FIJI ISLANDS							
SEP	22	BUB	EP	19	41	00.5				.8	
		ZUR	EPD	19	40	03.1				2.0	
		*GS		H0=	19	27	49.3	LAT=	51.639N	LON=	173.687W
				ANDREANOF ISLANDS, ALEUTIAN IS.							
SEP	25	BUB	EP	3	56	30.1				1.5	
		ZUR	EP	3	56	30.8					
		*GS		H0=	3	38	2.1	LAT=	14.752S	LON=	171.466E
				NEW HEBRIDES ISLANDS REGION							
SEP	25	BUB	IP	13	33	57	E	34	29.7	1.2	
SEP	25	BUB	EP	16	37	16				1.9	
		ZUR	EP	16	37	20				2.5	
		BAS	EP	16	37	40					
		*GS		H0=	16	17	28.3	LAT=	54.849S	LON=	145.849E
				WEST OF MACQUARIE ISLAND							
SEP	26	ZUR	IP	15	26	31.0	E	26	43.4	2.3	
		BUB	IPU	15	26	33.0	E	26	46.8	1.5	
SEP	26	EMO	ESP	16	53	41.4	SG	53	51.8		
		LIN	ESP	16	53	55.6		54	7.0		
		BUB	IP	16	54	15	N	54	27.2	1.3	
SEP	27	BUB	EP	7	6	21.8				1.6	A
		BAS	EP	7	6	25.3					A
		ZUR	EPD	7	6	25.3					
		*GS		H0=	6	59	58.0	LAT=	70.756N	LON=	53.872E
				NOVAYA ZEILYA							
SEP	27	BUB	EP	12	34	32.7				1.8	
		*GS		H0=	12	29	4.3	LAT=	71.541N	LON=	12.098W
				JAN MAYEN ISLAND REGION							
SEP	27	BUB	EP	22	16	01.6				.8	
		*GS		H0=	22	7	11.6	LAT=	13.221N	LON=	50.676E
				EASTERN GULF OF ADEN							
SEP	28	ZUR	EP	11	41	07.5				2.1	
		BUB	EPD	11	41	09.2				1.9	
		*GS		H0=	11	32	12.3	LAT=	13.244N	LON=	50.722E
				EASTERN GULF OF ADEN							
SEP	29	BUB	EPD	0	54	56.0				3.3	
		ZUR	EPD	0	54	58.5				3.6	
		BAS	P	0	55	02					
		*GS		H0=	0	44	.8	LAT=	41.891N	LON=	130.872E
				NORTH KOREA							
SEP	29	BUB	IPD	4	1	30.3	E	1	48.9	1.2	
SEP	29	BUB	IPD	21	9	21.2				1.5	
SEP	30	BUB	EP	5	6	05				1.6	
		ZUR	EP	5	6	06				2.0	
		*GS		H0=	4	59	57.5	LAT=	51.608N	LON=	54.582E
				WESTERN RUSSIA							
SEP	30	BUB	EP	6	30	29.0				2.2	
		ZUR	EP	6	30	30					
		BAS	EP	6	30	47					
		*GS		H0=	6	17	52.8	LAT=	35.606N	LON=	140.447E
				NEAR EAST COAST OF HONSHU, JAPAN							
OCT	01	BUB	EPD	14	28	59.8				1.3	
		*GS		H0=	14	16	23.0	LAT=	35.716N	LON=	140.561E
				NEAR EAST COAST OF HONSHU, JAPAN							
OCT	02	BAS	P	12	25	44					
		BUB	IP	12	25	52.4	E	26	5.3	1.2	
OCT	03	BUB	IPD	10	27	13.8	N	27	37.1	1.5	

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MO	DY	STA	PRK	H	M	S	SRK	M	S
LOG	A/T	RK							
OCT 03	LIN	ESP	10	27	20.4		27	43.8	
OCT 03	BUB	IPD	14	52	36.5	N	52	51.7	1.4
OCT 05	BUB	IPU	4	28	11.8	E	28	24.2	1.1
OCT 05	BUB	IP	4	28	38.2	E	28	50.6	.8
OCT 05	BUB	IPD	5	59	26.3	E	59	36.3	.8
OCT 05	BUB	EP	6	2	09				
*GS		HQ=	5:45:27.3			LAT=32.987S	LON=71.916W	Z=14KM	MB=5.8
			NEAR COAST OF CENTRAL CHILE						
OCT 05	BUB	IPD	10	28	04.7				1.5
*GS		HQ=	10:26:55.2			LAT=45.537N	LON=14.311E	Z=18KM	
			YUGOSLAVIA						
OCT 05	BUB	IPU	11	32	01.7				
*GS		HQ=	11:30:51.7			LAT=45.450N	LON=14.283E	Z=22KM	
			YUGOSLAVIA						
OCT 06	BUB	IP	7	25	03.6	E	25	15.9	.8
OCT 07	BUB	IP	15	20	15.9	N	20	26.8	1.2
OCT 07	BUB	IPU	15	30	55.7				1.0
*BCIS		HQ=	15:30:3.0			LAT=44.5N	LON=7.4E		
			NORTHERN ITALY						
OCT 08	BUB	IP	15	50	27.0	N	50	39.2	1.2
OCT 08	BUB	IPD	16	22	15.7	E	22	27.1	1.2
OCT 09	BUB	PKP	8	17	10				1.6
ZUR		PKP	8	17	12				1.6
*GS		HQ=	7:57:31.0			LAT=14.233S	LON=167.228E	Z=9KM	MB=5.8
			NEW HEBRIDES ISLANDS						
OCT 09	BUB	IPU	15	59	37.0	E	59	51.6	1.4
OCT 09	ZUR	IPD	17	2	33.0	E	2	46.5	2.3
BUB		IPU	17	2	34.2	E	2	47.8	1.6
OCT 09	BUB	IPU	21	53	23.1	E	53	32.8	2.0
ZUR		IPD	21	53	26.6	E	53	40.0	2.5
*BCIS		HQ=	21:53:8.0			LAT=48.1N	LON=7.5E		
			FRANCE						
OCT 09	BUB	IP	23	2	28.2				1.4
OCT 11	ZUR	EP	2	17	23.3				2.4
BUB		EPD	2	17	25.2				2.4
*GS		HQ=	2:17:25.2			LAT=.636N	LON=29.514W	Z=33KM	MB=5.8
			CENTRAL MID-ATLANTIC RIDGE						
OCT 12	BUB	IPU	5	19	29.2	N	19	37.4	1.2
OCT 14	DIX	P	8	16	48.8				
ZUR		IPU	8	17	05.9				2.8
BUB		P	8	17	07.3				1.9
		IPU	8	17	09.3				
		P	8	17	12.0				
LIN		ESP	8	17	14.6				
EMO		ESP	8	17	16.5				
*SED		HQ=	8:16:41.5			LAT=46N24.9	LON=7E10.6	Z=2KM	ML=2.4
			REGION CHATEAU D OEX, KT. VAUD (CH)						
OCT 14	ZUR	EPD	18	11	17.7				2.2
BUB		EP	18	11	18				1.6
*GS		HQ=	18:17:5.7			LAT=34.751N	LON=26.231E	Z=45KM	MB=4.8
			CRETE						
OCT 14	BUB	EP	22	15	41				1.1
*GS		HQ=	22:16:50.4			LAT=6.356S	LON=154.899E	Z=60KM	MB=5.4
			SOLOMON ISLANDS						
OCT 15	BUB	IPU	7	7	15.2				1.4
OCT 16	BUB	IPD	14	53	47.6	E	54	3.6	1.4
OCT 17	BUB	EPD	3	24	25				
BAS		EP	3	24	29				
*GS		HQ=	3:16:18.6			LAT=36.369N	LON=71.160E	Z=221KM	MB=5.5
			AFGHANISTAN-USSR BORDER REGION						
OCT 17	BUB	IPD	16	37	18.6	N	37	33.6	1.5
ZUR		IPD	16	37	20.4	N	37	36.9	1.7
OCT 18	BUB	EP	1	1	37				1.8
OCT 18	BUB	EP	11	2	30.7				1.1
ZUR		EP	11	2	34				1.1
*GS		HQ=	10:49:37.5			LAT=19.379N	LON=104.975W	Z=45KM	MB=6.0
			NEAR COAST OF JALISCO, MEXICO						
OCT 19	ZUR	PKP	0	33	34				2.3
BUB		PKP	0	33	35.5				1.8
*GS		HQ=	0:13:1.5			LAT=54.747S	LON=158.511E	Z=33KM	MB=5.8
			MACQUARIE ISLANDS REGION						
OCT 19	BUB	IPU	9	16	21.9	E	16	31.8	1.6
ZUR		IP	9	16	29.3	E	16	44.2	2.2
OCT 23	BUB	EP	10	53	35				
*GS		HQ=	10:50:58.6			LAT=45.689N	LON=26.496E	Z=174KM	MB=4.9
			ROMANIA						
OCT 24	BUB	EP	5	32	54				

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MO	DY	STA	PRK	H	M	S	SRK	M	S	LOG	A/T	RK
OCT	24	*GS	HQ=	5	23	50.9	LAT=33.113N	LON=75.891E	Z=33KM	MB=5.4		
			EASTERN KASHMIR									
OCT	25	ZUR	EPD	14	21	24.7				3.1		
		BUB	EPD	14	21	24.9				2.6		
		*GS	HQ=	14	8	59.5	LAT=21.985S	LON=63.656W	Z=529KM	MB=6.1		
			SALTA PROVINCE, ARGENTINA									
OCT	25	BUB	IPD	16	2	41.7		2	54.3	1.5		
OCT	25	ZUR	IPD	17	26	42.1		26	56.5	2.0		
		BUB	IPD	17	26	42.7		26	58.3	1.4		
OCT	26	ZUR	IPU	15	40	32.8		40	45.7	2.0		
		BUB	IPU	15	40	34.8	E	40	45.8	1.5		
			P	15	40	36.7		40	48.5			
		EMO	ESP	15	40	48.5		41	8.2			
		*SED	HQ=	15	40	21.5	LAT=47N16.5	LON=7E37.7	Z=3KM	ML=1.5		
			RMS=	.38S	ERH=	7.6KM	ERZ=25.6KM	D3=128KM	NO=7			
			REGION SOLOTHURN (CH)									
OCT	27	BUB	IPU	7	6	22.2				3.2		A
		BAS	P	7	6	24						
		ZUR	IPU	7	6	25.4				3.1		A
		*GS	HQ=	6	59	57.4	LAT=70.779N	LON=54.177E	Z=0KM	MB=6.9		
			NOVAYA ZEMLYA									
OCT	27	BUB	IPU	16	34	02.1	E	34	24.0	1.2		
			P	16	34	04.3						
OCT	28	BUB	EP	3	57	52				1.4		
		*GS	HQ=	3	56	15.4	LAT=48.420N	LON=17.084E	Z=2KM			
			CZECHOSLOVAKIA									
OCT	28	BUB	EP	11	36	56				1.1		
		ZUR	EP	11	36	57						
		*GS	HQ=	11	31	44.1	LAT=66.949N	LON=19.217W	Z=33KM	MB=5.0		
			ICELAND REGION									
OCT	28	BUB	IPD	16	43	12.5	N	43	30.8	.9		
OCT	29	BUB	IPU	15	21	38.7	E	21	52.7	1.8		
			P	15	21	40.5						
OCT	29	BUB	IPU	16	3	37.4	E	3	52.9	1.4		
OCT	30	BUB	IPU	1	0	24.7	E	0	43.2	1.2		
			P	1	0	45.7						
OCT	30	ZUR	EP	1	15	47				1.3		
		BUB	EP	1	15	50						
		*GS	HQ=	1	11	41.6	LAT=41.728N	LON=13.869E	Z=33KM	MB=4.4		
			SOUTHERN ITALY									
OCT	30	BUB	IPD	16	40	46.4	N	40	57.8	1.1		
OCT	31	ZUR	EP	18	11	33.9				2.3		
		BUB	EP	18	11	34				2.0		
		BAS	EP	18	11	54						
		*GS	HQ=	18	10	8.7	LAT=43.404N	LON=5.568E	Z=33KM			
			NEAR SOUTH COAST OF FRANCE									
NOV	01	BUB	PKP	6	58	41				1.3		
		*GS	HQ=	6	38	54.1	LAT=24.164S	LON=176.351W	Z=35KM	MB=5.7		
			SOUTH OF FIJI ISLANDS									
NOV	01	BUB	IP	9	13	42.2	E	13	51.9	1.3		
NOV	01	ZUR	IPU	8	58	50.3	N	58	51.5	2.9		
NOV	01	BUB	EP	11	25	05				1.1		
		*BCIS	HQ=	11	22	36.0	LAT=45.5N	LON=16.4E				
			YUGOSLAVIA									
NOV	02	ZUR	EP	5	53	08.6				1.6		
		BUB	EP	5	53	11				1.6		
		*GS	HQ=	5	46	37.6	LAT=32.664N	LON=48.214E	Z=55KM	MB=4.9		
			WESTERN IRAN									
NOV	02	ZUR	EP	6	4	06.8				1.6		
		BUB	EP	6	4	07.3				1.1		
		*GS	HQ=	5	57	33.0	LAT=32.647N	LON=48.243E	Z=59KM	MB=4.9		
			WESTERN IRAN									
NOV	03	BUB	EPD	0	31	30.8				1.1		
		ZUR	EPD	0	31	33.3						
		*GS	HQ=	0	19	51.5	LAT=54.618N	LON=161.447E	Z=61KM	MB=5.3		
			NEAR EAST COAST OF KAMCHATKA									
NOV	03	BUB	EP	1	58	18				1.8		
		ZUR	EP	1	58	20						
		*GS	HQ=	1	46	15.3	LAT=7.255N	LON=74.345W	Z=18KM	MB=5.0		
			NORTHERN COLOMBIA									
NOV	03	ZUR	EPD	8	39	10.7						
		BUB	EPD	8	39	12.2						
		*GS	HQ=	8	29	35.3	LAT=9.874N	LON=57.885E	Z=33KM	MB=5.1		
			CARLSBERG RIDGE									
NOV	03	BUB	IPD	19	55	21.7		55	32.9	1.3		
		ZUR	IP	19	55	22		55	34.4	2.0		
		*SED	HQ=	19	55	9.1	LAT=47N38.9	LON=7E35.7	Z=7KM	ML=1.0		
			RMS=	.53S	ERH=	10.6KM	ERZ=68.5KM	D3=81KM	NO=10			
			REGION BASEL (CH)									
NOV	04	ZUR	EP	15	55	03				2.6		
		BUB	EP	15	55	07.2				2.3		
		BAS	EP	15	55	16						
		*GS	HQ=	15	52	11.7	LAT=38.896N	LON=20.441E	Z=8KM	MB=5.8		
			GREECE									
NOV	04	ZUR	EP	16	14	31				1.6		

SEISMIC BULLETIN 1973										SED	
PAGE 44										LOG A/T	
MO	DY	STA	PRK	H	M	S	SRK	M	S	RK	
NOV	20	*GS	HU=131 2136.8	LAT=39.423N LON=23.963E Z=33KM MB=4.8							
NOV	20	BUB	EPU 17 9 32.0	LAT=52.523N LON=160.878E Z=33KM MB=5.0							
NOV	20	*GS	HU=16:57:38.6	LAT=52.523N LON=160.878E Z=33KM MB=5.0							
NOV	21	BUB	PKP 15 20 31	LAT=20.067S LON=178.417W Z=617KM MB=5.1							
NOV	21	*GS	HU=15:15:52.6	LAT=20.067S LON=178.417W Z=617KM MB=5.1							
NOV	21	BUB	EP 21 17 26	LAT=46.126N LON=151.447E Z=84KM MB=5.6							
NOV	21	*GS	HU=21:51:20.4	LAT=46.126N LON=151.447E Z=84KM MB=5.6							
NOV	22	BUB	IPU 9 27 27.4	LAT=38.458N LON=28.308W Z=5KM MB=5.0							
NOV	23	BUB	IPD 8 50 57.6	LAT=38.458N LON=28.308W Z=5KM MB=5.0							
NOV	23	BUB	EP 13 42 20	LAT=36.140N LON=4.408E Z=17KM MB=5.1							
NOV	23	*GS	HU=13:36:19.3	LAT=36.140N LON=4.408E Z=17KM MB=5.1							
NOV	24	BUB	EP 14 8 38.9	LAT=36.116N LON=4.443E Z=33KM MB=5.1							
NOV	24	*GS	HU=14:51:46.4	LAT=36.116N LON=4.443E Z=33KM MB=5.1							
NOV	24	BUB	EPU 15 25 07.8	LAT=36.193N LON=4.466E Z=33KM MB=4.9							
NOV	24	*GS	HU=15:22:09.8	LAT=36.193N LON=4.466E Z=33KM MB=4.9							
NOV	25	BUB	EP 4 23 15.0	LAT=33.820N LON=135.451E Z=51KM MB=5.7							
NOV	25	*GS	HU=4:20:22.5	LAT=33.820N LON=135.451E Z=51KM MB=5.7							
NOV	25	BUB	EPD 9 31 48.7	LAT=33.820N LON=135.378E Z=56KM MB=5.7							
NOV	25	*GS	HU=9:19:14.6	LAT=33.820N LON=135.378E Z=56KM MB=5.7							
NOV	27	BUB	IPU 9 52 09.7	LAT=53.648N LON=160.532E Z=60KM MB=5.9							
NOV	27	BUB	IPU 9 52 11.1	LAT=53.648N LON=160.532E Z=60KM MB=5.9							
NOV	27	BUB	IPU 12 4 15.8	LAT=35.181N LON=23.797E Z=26KM MB=5.7							
NOV	27	BUB	IPU 12 4 15.8	LAT=35.181N LON=23.797E Z=26KM MB=5.7							
NOV	27	BUB	EP 14 4 12.7	LAT=46N47.7 LON=10E13.2 Z=8KM MB=2.8							
NOV	27	BUB	EP 14 4 15.5	LAT=46N47.7 LON=10E13.2 Z=8KM MB=2.8							
NOV	27	BUB	EP 14 4 16	LAT=46N47.7 LON=10E13.2 Z=8KM MB=2.8							
NOV	27	*GS	HU=13:52:29.6	LAT=46N47.7 LON=10E13.2 Z=8KM MB=2.8							
NOV	27	BUB	IPD 16 14 17.2	LAT=53.297N LON=153.358E Z=491KM MB=5.2							
NOV	29	BUB	IPD 16 14 17.2	LAT=53.297N LON=153.358E Z=491KM MB=5.2							
NOV	29	BUB	EP 11 1 35	LAT=15.198S LON=167.391E Z=124KM MB=6.0							
NOV	29	BUB	EPD 11 1 38.9	LAT=15.198S LON=167.391E Z=124KM MB=6.0							
NOV	29	BUB	EP 11 1 45	LAT=15.198S LON=167.391E Z=124KM MB=6.0							
NOV	29	*GS	HU=10:57:42.7	LAT=15.198S LON=167.391E Z=124KM MB=6.0							
NOV	29	BUB	IPU 11 11 38.8	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	29	BUB	IPD 13 54 10.2	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	29	BUB	IPD 13 54 16.0	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	29	BUB	IPD 13 54 17.9	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	29	BUB	IP 14 6 24.0	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	29	BUB	IP 14 6 26.0	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	29	BUB	EP 18 10 10	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	29	BUB	EPD 18 10 14.6	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	29	*GS	HU=17:59:21.3	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	SEA OF OKHOTSK	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	PKP 8 29 10.3	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	PKP 8 29 13.6	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	PKP 8 29 15	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	*GS	HU=8:19:55.4	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	IPU 10 49 27.8	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	IPU 10 49 27.8	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 00.3	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 31.4	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.1	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	*SED	HU=20:7:59.7	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							
NOV	30	BUB	EP 20 8 35.5	LAT=43.006N LON=146.075E Z=36KM MB=5.4							

Table II: List of Earthquakes in Europe (1973)						
E-QUAKES UPTO 2500 KM DISTANCE				SEC		
PAGE	48					
JAN 02	H0= 1:50:28.5	LAT=38.221N GREECE	LON= 20.165E	Z= 33KM	MB=4.3	ERL
JAN 05	H0= 5:49:17.5	LAT=35.808N MEDITERRANEAN SEA	LON= 21.835E	Z= 33KM	MB=5.3	ERL
JAN 05	H0= 12:37:47.2	LAT=45.555N ROMANIA	LON= 26.589E	Z=131KM	MB=4.4	ERL
JAN 05	H0= 19:12:12.5	LAT=35.601N MEDITERRANEAN SEA	LON= 21.939E	Z= 30KM	MB=4.3	ERL
JAN 10	H0= 3:24:11.7	LAT=37.758N SOUTHERN GREECE	LON= 21.341E	Z= 41KM	MB=5.0	ERL
JAN 13	H0= 23:12: 1.7	LAT=36.465N DODECANESE ISLANDS	LON= 27.217E	Z= 33KM	MB=4.2	ERL
JAN 16	H0= 22:45:16.7	LAT=35.144N MEDITERRANEAN SEA	LON= 22.566E	Z= 28KM	MB=4.5	ERL
JAN 18	H0= 21:51:56.4	LAT=45.311N FRANCE	LON= 6.745E	Z= 33KM		ERL
JAN 23	H0= 11:46:42.6	LAT=34.311N CRETE	LON= 25.062E	Z= 33KM	MB=4.6	ERL
JAN 25	H0= 5:29:10.2	LAT=45.691N ROMANIA	LON= 26.276E	Z=156KM	MB=3.8	ERL
JAN 26	H0= 7:50:12.8	LAT=35.821N MEDITERRANEAN SEA	LON= 22.101E	Z= 58KM	MB=4.7	ERL
JAN 28	H0= 20:35:55.0	LAT=38.171N IONIAN SEA	LON= 19.548E	Z= 33KM	MB=4.3	ERL
JAN 29	H0= 6: 2:32.4	LAT=38.182N IONIAN SEA	LON= 19.873E	Z= 33KM	MB=4.3	ERL
JAN 30	H0= 2:36:11.6	LAT=37.003N SPAIN	LON= 3.619W	Z=634KM	MB=4.0	ERL
JAN 30	H0= 5:41:44.2	LAT=38.724N AEGEAN SEA	LON= 26.245E	Z= 33KM	MB=3.9	ERL
JAN 30	H0= 12: 1: 9.1	LAT=39.580N AEGEAN SEA	LON= 23.760E	Z= 33KM	MB=3.3	ERL
JAN 30	H0= 22:47:12.3	LAT=41.054N ALBANIA	LON= 20.118E	Z= 33KM	MB=3.8	ERL
FEB 01	H0= 8:19:26.8	LAT=35.636N MEDITERRANEAN SEA	LON= 21.269E	Z= 33KM	MB=4.4	ERL
FEB 02	H0= 6:46:20.5	LAT=36.045N DODECANESE ISLANDS	LON= 27.185E	Z= 33KM	MB=3.9	ERL
FEB 07	H0= 4: 0:35.4	LAT=42.994N YUGOSLAVIA	LON= 17.759E	Z= 33KM		ERL
FEB 07	H0= 9:32:36.4	LAT=38.348N GREECE	LON= 21.194E	Z= 22KM	MB=3.5	ERL
FEB 07	H0= 20: 8:23.0	LAT=37.766N TURKEY	LON= 29.706E	Z= 35KM	MB=4.4	ERL
FEB 08	H0= 3:37:23.1	LAT=38.279N GREECE	LON= 20.340E	Z= 32KM	MB=4.2	ERL
FEB 08	H0= 9:25:46.3	LAT=38.257N GREECE	LON= 20.263E	Z= 53KM	MB=4.1	ERL
FEB 08	H0= 11:57:19.7	LAT=38.427N GREECE	LON= 20.010E	Z= 17KM	MB=4.5	ERL
FEB 08	H0= 14:33:10.5	LAT=39.064N TURKEY	LON= 28.919E	Z= 33KM	MB=4.2	ERL
FEB 08	H0= 16:44:31.5	LAT=38.381N GREECE	LON= 20.133E	Z= 33KM	MB=4.6	ERL
FEB 11	H0= 9: 3:22.7	LAT=35.695N CRETE	LON= 23.924E	Z= 31KM	MB=4.2	ERL
FEB 15	H0= 21:25: 3.7	LAT=38.320N GREECE	LON= 20.278E	Z= 33KM	MB=4.3	ERL
FEB 19	H0= 18:10: 5	LAT=40.191N TURKEY	LON= 33.852E	Z= 22KM	MB=4.5	ERL
FEB 19	H0= 20:27:59.7	LAT=46.017N FRANCE	LON= 4.05W	Z= 33KM		ERL
FEB 20	H0= 5:55:14.4	LAT=34.411N CRETE	LON= 23.839E	Z= 22KM	MB=4.5	ERL
FEB 20	H0= 11:38:48.8	LAT=45.015N CRIMEA REGION	LON= 36.412E	Z= 17KM	MB=4.2	ERL
FEB 21	H0= 1:14:59.9	LAT=38.247N GREECE	LON= 20.147E	Z= 33KM	MB=4.1	ERL
FEB 22	H0= 6:48:33.0	LAT=48.170N FRANCE	LON= 6.584E	Z= 33KM		ERL
FEB 24	H0= 23:54: 3.4	LAT=34.957N CRETE	LON= 24.480E	Z= 50KM	MB=4.1	ERL
FEB 25	H0= 12:55:20.8	LAT=37.729N SOUTHERN GREECE	LON= 20.960E	Z= 43KM	MB=3.5	ERL
FEB 25	H0= 14:55:21.1	LAT=38.844N TURKEY	LON= 29.425E	Z= 18KM	MB=4.1	ERL

SED		E-QUAKES UPTO 2500 KM DISTANCE				PAGE 49	
FEB 26	H0= 22:23:11.7	LAT=39.971N GREECE-ALBANIA BORDER REGION	LON= 20.103E	Z= 33KM	MB=4.6	ERL	
FEB 27	H0= 17:10:10.6	LAT=38.852N TURKEY	LON= 29.854E	Z= 33KM	MB=4.2	ERL	
MAR 02	H0= 19:30: 1.9	LAT=39.384N TURKEY	LON= 27.686E	Z= 55KM	MB=3.6	ERL	
MAR 03	H0= 10:53:42.2	LAT=50.340N GERMANY	LON= 12.393E	Z= 6KM		ERL	
MAR 04	H0= 4:24:15.1	LAT=36.258N STRAIT OF GIBRAI TAR	LON= 7.283W	Z= 15KM	MB=3.8	ERL	
MAR 05	H0= 15:40:33.3	LAT=38.756N GREECE	LON= 20.236E	Z= 32KM	MB=3.7	ERL	
MAR 05	H0= 20: 6:11.9	LAT=51.524N GERMANY	LON= 7.188E	Z= 0KM		ERL	
MAR 06	H0= 12:21:33.9	LAT=38.739N GREECE	LON= 23.673E	Z= 33KM	MB=4.0	ERL	
MAR 07	H0= 6:35:10.7	LAT=41.799N ALBANIA	LON= 20.048E	Z= 48KM	MB=4.0	ERL	
MAR 08	H0= 9:12: 6.6	LAT=40.319N AEGEAN SEA	LON= 24.059E	Z= 33KM		ERL	
MAR 10	H0= 9:35:43.0	LAT=38.739N GREECE	LON= 21.014E	Z= 33KM	MB=3.1	ERL	
MAR 11	H0= 12:17:19.8	LAT=50.412N GERMANY	LON= 12.565E	Z= 33KM		ERL	
MAR 12	H0= 8:31:14.0	LAT=37.535N TURKEY	LON= 29.905E	Z= 28KM	MB=4.4	ERL	
MAR 12	H0= 9:55:46.7	LAT=45.573N ROMANIA	LON= 26.235E	Z=138KM	MB=3.7	ERL	
MAR 12	H0= 20:30:43.9	LAT=35.908N MEDITERRANEAN SEA	LON= 21.782E	Z= 44KM	MB=4.7	ERL	
MAR 18	H0= 18: 8:48.5	LAT=39.345N TURKEY	LON= 29.157E	Z= 5KM	MB=3.8	ERL	
MAR 18	H0= 19:32: 9.3	LAT=39.387N TURKEY	LON= 29.261E	Z= 33KM		ERL	
MAR 20	H0= 15:20:59.5	LAT=39.471N TURKEY	LON= 26.415E	Z= 11KM		ERL	
MAR 20	H0= 18: 9:24.5	LAT=48.080N FRANCE	LON= 5.846E	Z= 25KM		ERL	
MAR 21	H0= 8:16:23.5	LAT=37.090N TURKEY	LON= 30.173E	Z= 33KM	MB=4.3	ERL	
MAR 21	H0= 11:25:50.9	LAT=37.556N SOUTHERN GREECE	LON= 23.624E	Z= 31KM	MB=4.2	ERL	
MAR 23	H0= 2: 8:30.5	LAT=35.920N MEDITERRANEAN SEA	LON= 21.752E	Z= 33KM	MB=4.0	ERL	
MAR 24	H0= 11:45:22.1	LAT=47.312N AUSTRIA	LON= 11.294E	Z= 33KM		ERL	
MAR 25	H0= 22:55:54.8	LAT=38.492N GREECE	LON= 20.366E	Z= 33KM	MB=3.5	ERL	
MAR 27	H0= 15:38:24.2	LAT=38.425N GREECE	LON= 21.089E	Z= 33KM	MB=4.1	ERL	
MAR 31	H0= 23:34: 7.9	LAT=45.720N ROMANIA	LON= 26.658E	Z=159KM	MB=4.1	ERL	
APR 06	H0= 14:13:54.2	LAT=34.431N CRETE	LON= 25.250E	Z= 16KM	MB=5.1	ERL	
APR 07	H0= 19:30: 6.9	LAT=41.495N ALBANIA	LON= 19.978E	Z= 16KM	MB=4.7	ERL	
APR 08	H0= 4:12:53.7	LAT=39.968N GREECE-ALBANIA BORDER REGION	LON= 20.612E	Z= 45KM	MB=3.8	ERL	
APR 09	H0= 3: 1: 3.7	LAT=39.547N TURKEY	LON= 28.005E	Z= 33KM		ERL	
APR 10	H0= 2:16:17.2	LAT=34.168N CRETE	LON= 26.343E	Z= 33KM	MB=3.8	ERL	
APR 11	H0= 5: 1:37.3	LAT=58.822N SWEDEN	LON= 13.191E	Z= 33KM		ERL	
APR 13	H0= 8:12:15.4	LAT=39.090N SOUTHERN ITALY	LON= 16.961E	Z= 45KM	MB=4.7	ERL	
APR 13	H0= 14:40:32.6	LAT=41.838N YUGOSLAVIA	LON= 22.721E	Z= 5KM		ERL	
APR 13	H0= 14:53:22.3	LAT=41.849N YUGOSLAVIA	LON= 22.771E	Z= 1KM		ERL	
APR 14	H0= 2:15:26.7	LAT=40.819N GREECE-ALBANIA BORDER REGION	LON= 20.713E	Z= 11KM	MB=3.3	ERL	
APR 14	H0= 3:10:30.5	LAT=34.486N CRETE	LON= 24.247E	Z= 37KM	MB=4.3	ERL	
APR 16	H0= 0: 5:43.1	LAT=34.846N CRETE	LON= 25.046E	Z= 43KM	MB=4.6	ERL	

PAGE 50	E-QUAKES UPTO 2500 KM DISTANCE		SED
APR 16	H0= 14:28:43.5	LAT=39.310N LON= 21.017E Z= 33KM MB=3.9	ERL GREECE
APR 19	H0= 6: 0:19.5	LAT=36.020N LON= 27.505E Z= 46KM MB=4.3	ERL DODECANESE ISLANDS
APR 19	H0= 17:41:37.2	LAT=43.471N LON= 12.465E Z= 4KM MB=4.4	ERL CENTRAL ITALY
APR 19	H0= 22:13:53.3	LAT=38.241N LON= 26.841E Z= 13KM MB=4.5	ERL AEGEAN SEA
APR 20	H0= 12:24:21.0	LAT=49.417N LON= 6.033E Z= 0KM MB=4.3	ERL GERMANY
APR 22	H0= 13:39:46.1	LAT=35.177N LON= 23.395E Z= 56KM MB=4.5	ERL CRETE
APR 22	H0= 22:20:58.6	LAT=37.285N LON= 30.265E Z= 42KM MB=4.3	ERL TURKEY
APR 23	H0= 2:57: .2	LAT=64.630N LON= 17.548W Z= 5KM MB=4.5	ERL ICELAND
APR 23	H0= 13:38:34.0	LAT=44.049N LON= 12.774E Z= 33KM MB=4.2	ERL NORTHERN ITALY
APR 27	H0= 0:31: 3.0	LAT=38.709N LON= 33.004E Z= 33KM MB=4.6	ERL TURKEY
APR 28	H0= 2:58:27.6	LAT=34.252N LON= 26.324E Z= 33KM MB=4.4	ERL CRETE
APR 29	H0= 14:37:53.9	LAT=34.642N LON= 4.073W Z= 19KM MB=4.6	ERL MOROCCO
MAY 01	H0= 5:44:25.1	LAT=42.623N LON= 17.153E Z= 33KM MB=3.8	ERL ADRIATIC SEA
MAY 02	H0= 7:49: .5	LAT=38.985N LON= 22.132E Z= 33KM	ERL GREECE
MAY 02	H0= 23:17:11.6	LAT=36.471N LON= 12.326W Z= 33KM MB=4.4	ERL NORTH ATLANTIC OCEAN
MAY 03	H0= 1:22:33.3	LAT=38.109N LON= 19.771E Z= 32KM MB=4.0	ERL IONIAN SEA
MAY 05	H0= 8: 9:44.5	LAT=39.018N LON= 23.414E Z= 33KM MB=3.6	ERL AEGEAN SEA
MAY 05	H0= 8:21: 3.0	LAT=39.016N LON= 23.437E Z= 26KM MB=3.6	ERL AEGEAN SEA
MAY 08	H0= 19: 8:23.9	LAT=45.662N LON= 9.709E Z= 33KM	ERL NORTHERN ITALY
MAY 12	H0= 9:31:36.0	LAT=39.018N LON= 29.229E Z= 20KM MB=4.5	ERL TURKEY
MAY 15	H0= 22:50:54.7	LAT=47.165N LON= 12.912E Z= 10KM	ERL AUSTRIA
MAY 18	H0= 1: 3:33.2	LAT=37.151N LON= 21.543E Z= 33KM MB=3.2	ERL SOUTHERN GREECE
MAY 18	H0= 4:39:36.2	LAT=40.265N LON= 24.104E Z= 15KM MB=3.3	ERL AEGEAN SEA
MAY 19	H0= 9:16:28.0	LAT=39.156N LON= 23.894E Z= 16KM MB=3.0	ERL AEGEAN SEA
MAY 23	H0= 20:21:21.7	LAT=39.231N LON= 23.378E Z= 33KM MB=3.0	ERL AEGEAN SEA
JUN 05	H0= 13:47:24.1	LAT=44.667N LON= 9.515E Z= 33KM MB=4.1	ERL NORTHERN ITALY
JUN 06	H0= 20:37:45.6	LAT=45.549N LON= 12.009E Z= 30KM MB=4.0	ERL NORTHERN ITALY
JUN 06	H0= 21:11:20.5	LAT=42.377N LON= 18.645E Z= 16KM MB=4.6	ERL YUGOSLAVIA
JUN 07	H0= 0: 6: 5.5	LAT=35.111N LON= 27.192E Z= 60KM MB=3.8	ERL DODECANESE ISLANDS
JUN 09	H0= 19: 9:33.1	LAT=36.215N LON= 28.379E Z= 58KM MB=4.1	ERL DODECANESE ISLANDS
JUN 11	H0= 0:29:35.7	LAT=40.539N LON= 28.939E Z= 26KM	ERL TURKEY
JUN 11	H0= 3:15:39.3	LAT=46.193N LON= 16.093E Z= 11KM MB=4.5	ERL YUGOSLAVIA
JUN 12	H0= 11: 1:52.6	LAT=34.215N LON= 26.191E Z= 54KM MB=4.3	ERL CRETE
JUN 12	H0= 21: 2:56.9	LAT=47.569N LON= 15.332E Z= 5KM MB=4.8	ERL AUSTRIA
JUN 24	H0= 21: 6:41.3	LAT=62.464N LON= 2.123E Z= 33KM	ERL NORWEGIAN SEA
JUN 26	H0= 19: 5:21.9	LAT=34.338N LON= 26.134E Z= 38KM MB=4.8	ERL CRETE
JUL 02	H0= 11: 1:26.7	LAT=46.736N LON= 6.798E Z= 33KM	ERL SWITZERLAND
JUL 02	H0= 12:14: 8.3	LAT=39.685N LON= 23.964E Z= 33KM MB=4.2	ERL AEGEAN SEA

SED	E-QUAKES UPTO 2500 KM DISTANCE		PAGE 51
JUL 03	H0= 16: 6:14.4	LAT=40.721N LON= 27.447E Z= 6KM	ERL TURKEY
JUL 03	H0= 16:10:12.4	LAT=44.075N LON= 13.273E Z= 47KM MB=5.3	ERL ADRIATIC SEA
JUL 05	H0= 21:12:11.6	LAT=38.791N LON= 29.230E Z= 39KM MB=3.9	ERL TURKEY
JUL 05	H0= 22:21:15.6	LAT=41.644N LON= 19.893E Z= 33KM MB=4.2	ERL ALBANIA
JUL 06	H0= 14:24:20.8	LAT=42.376N LON= 21.330E Z= 11KM	ERL YUGOSLAVIA
JUL 08	H0= 3:58:31.2	LAT=46.583N LON= 9.974E Z= 33KM	ERL NORTHERN ITALY
JUL 08	H0= 13:44:31.7	LAT=44.390N LON= 9.793E Z= 33KM	ERL NORTHERN ITALY
JUL 09	H0= 0:27: 2.8	LAT=46.813N LON= 9.772E Z= 18KM	ERL SWITZERLAND
JUL 14	H0= 12:38:18.3	LAT=37.898N LON= 21.072E Z= 36KM MB=4.7	GS SOUTHERN GREECE
JUL 17	H0= 9:30:29.7	LAT=37.721N LON= 19.820E Z= 33KM MB=4.0	GS IONIAN SEA
JUL 19	H0= 10:51:19.0	LAT=43.219N LON= 22.257E Z= 10KM	GS YUGOSLAVIA
JUL 20	H0= 10:42:24.0	LAT=40.265N LON= 29.217E Z= 10KM	ERL TURKEY
JUL 21	H0= 8: 3: 1.5	LAT=35.047N LON= 24.576E Z= 5KM MB=3.8	GS CRETE
JUL 21	H0= 12:51:55.7	LAT=35.034N LON= 24.754E Z= 33KM MB=4.5	ERL CRETE
JUL 22	H0= 21: 6:56.8	LAT=48.396N LON= 6.446E Z= 12KM	GS FRANCE
JUL 23	H0= 23:25:10.8	LAT=44.142N LON= 12.688E Z= 33KM MB=4.0	ERL NORTHERN ITALY
JUL 24	H0= 0:46:38.1	LAT=47.177N LON= 9.592E Z= 33KM	GS GERMANY
JUL 27	H0= 10: 2: 9.1	LAT=51.739N LON= 6.795E Z= 1KM	GS GERMANY
JUL 28	H0= 18:55:10.8	LAT=36.081N LON= 31.358E Z= 70KM MB=4.4	ERL TURKEY
JUL 29	H0= 15: 1:20.6	LAT=37.017N LON= 28.379E Z= 26KM MB=4.1	GS TURKEY
JUL 29	H0= 19: 1: 5.0	LAT=37.828N LON= 20.943E Z= 49KM MB=3.9	ERL IONIAN SEA
AUG 01	H0= 19:56: 8.5	LAT=40.893N LON= 34.603E Z= 19KM MB=4.3	GS TURKEY
AUG 04	H0= 4: 9:47.8	LAT=38.800N LON= 20.186E Z= 39KM MB=4.1	ERL GREECE
AUG 06	H0= 1:11:13.6	LAT=39.869N LON= 20.590E Z= 63KM MB=4.1	ERL GREECE-ALBANIA BORDER REGION
AUG 08	H0= 8:23:47.6	LAT=41.749N LON= 19.388E Z= 27KM MB=4.6	ERL ALBANIA
AUG 08	H0= 14:36:11.0	LAT=40.822N LON= 15.389E Z= 33KM MB=4.7	GS SOUTHERN ITALY
AUG 19	H0= 16:33:51.1	LAT=41.445N LON= 20.233E Z= 5KM	GS ALBANIA
AUG 20	H0= 15:18:28.3	LAT=45.735N LON= 26.477E Z= 73KM MB=5.6	ERL ROMANIA
AUG 23	H0= 14:52:42.3	LAT=45.662N LON= 21.115E Z= 39KM	GS ROMANIA
AUG 23	H0= 16:56:26.9	LAT=45.694N LON= 21.114E Z= 51KM	GS ROMANIA
AUG 23	H0= 18:23:43.8	LAT=46.303N LON= 21.510E Z= 86KM	GS ROMANIA
AUG 24	H0= 10:50:59.7	LAT=36.203N LON= 2.041W Z= 33KM MB=3.9	GS STRAIT OF GIBRALTAR
AUG 25	H0= 12:48:20.6	LAT=34.846N LON= 24.868E Z= 33KM MB=4.1	GS CRETE
SEP 07	H0= 19:37:51.8	LAT=45.795N LON= 26.481E Z= 140KM MB=4.6	GS ROMANIA
SEP 12	H0= 1:26:48.6	LAT=36.530N LON= 26.922E Z= 152KM MB=4.2	GS DODECANESE ISLANDS
SEP 12	H0= 9:36:50.5	LAT=40.743N LON= 20.986E Z= 93KM MB=4.6	GS GREECE
SEP 17	H0= 14:47:47.4	LAT=38.536N LON= 20.086E Z= 4KM MB=4.6	GS GREECE
SEP 17	H0= 15:37:20.4	LAT=35.847N LON= 21.862E Z= 43KM MB=4.3	GS MEDITERRANEAN SEA

PAGE 52	E-QUAKES UPTO 2500 KM DISTANCE		SEP
SEP 18	HU= 8:47:40.5	LAT=36.680N LON= 30.141E Z= 15KM MB=4.4	GS
		TURKEY	
SEP 21	HU= 1:38:12.2	LAT=44.245N LON= 17.098E Z= 33KM	GS
		YUGOSLAVIA	
SEP 22	HU= 6:29:42.0	LAT=36.544N LON= 23.971E Z= 92KM MB=4.5	GS
		SOUTHERN GREECE	
SEP 25	HU= 5:29:40.9	LAT=34.854N LON= 28.346E Z= 79KM MB=4.1	GS
		EASTERN MEDITERRANEAN SEA	
SEP 29	HU= 0:35:35.2	LAT=39.399N LON= 26.217E Z= 42KM MB=3.8	GS
		TURKEY	
OCT 05	HU= 4:52:11.1	LAT=36.341N LON= 21.205E Z= 27KM MB=4.1	GS
		SOUTHERN GREECE	
OCT 05	HU= 10:26:55.2	LAT=45.537N LON= 14.311E Z= 18KM	GS
		YUGOSLAVIA	
OCT 05	HU= 11:30:51.7	LAT=45.450N LON= 14.283E Z= 22KM	GS
		YUGOSLAVIA	
OCT 06	HU= 21:19:58.2	LAT=34.870N LON= 26.251E Z= 33KM MB=4.4	GS
		CRETE	
OCT 08	HU= 23: 5:30.5	LAT=41.072N LON= 25.108E Z= 38KM	GS
		GREECE-BULGARIA BORDER REGION	
OCT 10	HU= 11: 5:35.4	LAT=34.395N LON= 28.306E Z= 63KM MB=4.5	GS
		EASTERN MEDITERRANEAN SEA	
OCT 13	HU= 6: 0:33.7	LAT=34.728N LON= 26.179E Z= 39KM MB=4.6	GS
		CRETE	
OCT 14	HU= 8:16:45.3	LAT=46.562N LON= 7.359E Z= 33KM	GS
		SWITZERLAND	
OCT 14	HU= 18: 7: 5.7	LAT=34.751N LON= 26.231E Z= 45KM MB=4.8	GS
		CRETE	
OCT 19	HU= 0:16: 4.5	LAT=36.932N LON= 21.567E Z= 33KM MB=4.4	GS
		SOUTHERN GREECE	
OCT 19	HU= 21:27:45.9	LAT=37.106N LON= 21.583E Z= 33KM MB=3.4	GS
		SOUTHERN GREECE	
OCT 21	HU= 22:50:26.0	LAT=40.625N LON= 32.892E Z= 5KM MB=4.0	GS
		TURKEY	
OCT 22	HU= 7:25: 8.2	LAT=38.302N LON= 20.316E Z= 5KM MB=3.6	GS
		GREECE	
OCT 23	HU= 10:50:58.6	LAT=45.689N LON= 26.496E Z=174KM MB=4.9	GS
		RUMANIA	
OCT 25	HU= 1:19:16.6	LAT=45.547N LON= 26.520E Z=137KM MB=3.8	GS
		RUMANIA	
OCT 26	HU= 20:22: 3.6	LAT=38.717N LON= 20.951E Z= 55KM MB=3.9	GS
		GREECE	
OCT 28	HU= 3:56:15.4	LAT=48.420N LON= 17.084E Z= 2KM	GS
		CZECHOSLOVAKIA	
OCT 29	HU= 9:43:59.8	LAT=37.415N LON= 21.316E Z= 76KM MB=3.5	GS
		SOUTHERN GREECE	
OCT 29	HU= 21:11:11.6	LAT=41.542N LON= 19.033E Z= 33KM MB=3.2	GS
		ALBANIA	
OCT 30	HU= 1:14: 6.0	LAT=41.728N LON= 13.869E Z= 33KM MB=4.4	GS
		SOUTHERN ITALY	
OCT 30	HU= 19:40: 3.8	LAT=37.748N LON= 29.383E Z= 19KM MB=4.3	GS
		TURKEY	
OCT 31	HU= 18:10: 8.7	LAT=43.404N LON= 5.568E Z= 33KM	GS
		NEAR SOUTH COAST OF FRANCE	
NOV 01	HU= 16:54:33.2	LAT=40.808N LON= 27.365E Z= 33KM	GS
		TURKEY	
NOV 04	HU= 15:52:11.7	LAT=38.896N LON= 20.441E Z= 8KM MB=5.8	GS
		GREECE	
NOV 04	HU= 16:11:36.0	LAT=39.076N LON= 20.462E Z= 6KM MB=5.0	GS
		GREECE-ALBANIA BORDER REGION	
NOV 05	HU= 8:40:46.7	LAT=41.682N LON= 13.763E Z= 33KM MB=4.0	GS
		SOUTHERN ITALY	
NOV 06	HU= 20:38:46.5	LAT=38.128N LON= 20.259E Z= 14KM MB=4.2	GS
		GREECE	
NOV 07	HU= 17: 6:15.5	LAT=43.996N LON= 11.232E Z= 33KM MB=4.2	GS
		NORTHERN ITALY	
NOV 08	HU= 1: 2:44.6	LAT=38.741N LON= 25.237E Z= 33KM MB=4.2	GS
		AEGEAN SEA	
NOV 09	HU= 7: 6:24.0	LAT=35.781N LON= 21.992E Z= 33KM MB=4.2	GS
		MEDITERRANEAN SEA	
NOV 10	HU= 3: 1:11.6	LAT=44.622N LON= 13.231E Z= 33KM MB=4.4	GS
		ADRIATIC SEA	
NOV 10	HU= 18:26:13.1	LAT=37.803N LON= 30.961E Z= 39KM MB=4.4	GS
		TURKEY	
NOV 12	HU= 0: 7:13.3	LAT=35.490N LON= 27.663E Z= 69KM MB=4.7	GS
		DODECANESE ISLANDS	

SEP	E-QUAKES UPTO 2500 KM DISTANCE		PAGE 53
NOV 12	HU= 0:11:52.2	LAT=35.575N LON= 27.685E Z= 33KM MB=5.1	GS
		DODECANESE ISLANDS	
NOV 12	HU= 7:54: 7.5	LAT=35.287N LON= 27.299E Z= 33KM MB=4.1	GS
		DODECANESE ISLANDS	
NOV 14	HU= 9:33:58.5	LAT=35.438N LON= 27.682E Z= 55KM MB=4.4	GS
		DODECANESE ISLANDS	
NOV 16	HU= 20:49:27.3	LAT=44.839N LON= 7.699E Z= 10KM	GS
		NORTHERN ITALY	
NOV 19	HU= 7:28:57.6	LAT=35.369N LON= 27.582E Z= 33KM MB=4.7	GS
		DODECANESE ISLANDS	
NOV 20	HU= 4:37:22.9	LAT=46.506N LON= 2.131E Z= 10KM	GS
		FRANCE	
NOV 20	HU= 13: 2:36.8	LAT=39.423N LON= 23.963E Z= 33KM MB=4.8	GS
		AEGEAN SEA	
NOV 22	HU= 14:54:55.9	LAT=40.307N LON= 29.807E Z= 33KM MB=4.2	GS
		TURKEY	
NOV 24	HU= 3:35:36.8	LAT=39.338N LON= 24.081E Z= 33KM MB=3.5	GS
		AEGEAN SEA	
NOV 24	HU= 14: 5:46.4	LAT=36.140N LON= 4.408E Z= 17KM MB=5.1	GS
		ALGERIA	
NOV 24	HU= 15:22: 9.8	LAT=36.116N LON= 4.443E Z= 33KM MB=5.1	GS
		ALGERIA	
NOV 25	HU= 4:20:22.5	LAT=36.193N LON= 4.466E Z= 33KM MB=4.9	GS
		ALGERIA	
NOV 27	HU= 9: 5:23.8	LAT=36.538N LON= 7.629H Z= 33KM	GS
		STRAIT OF GIBRALTAR	
NOV 29	HU= 10:57:42.7	LAT=35.181N LON= 23.797E Z= 26KM MB=5.7	GS
		CRETE	
NOV 29	HU= 16:47:33.8	LAT=45.479N LON= 18.704E Z= 33KM MB=4.8	GS
		YUGOSLAVIA	
NOV 29	HU= 19:43:34.7	LAT=35.999N LON= 24.777E Z=163KM MB=3.7	GS
		SOUTHERN GREECE	
NOV 30	HU= 6:47:49.2	LAT=37.320N LON= 29.630E Z= 25KM MB=4.5	GS
		TURKEY	
NOV 30	HU= 18:31:36.7	LAT=36.199N LON= 30.873E Z= 24KM MB=3.1	GS
		TURKEY	
DEC 05	HU= 3:50:51.4	LAT=35.440N LON= 26.447E Z= 80KM MB=5.1	GS
		CRETE	
DEC 05	HU= 14:58:12.7	LAT=51.544N LON= 7.077E Z= 0KM	GS
		GERMANY	
DEC 06	HU= 19:51:55.5	LAT=35.237N LON= 27.726E Z= 39KM MB=4.3	GS
		DODECANESE ISLANDS	
DEC 08	HU= 19:40: 5.3	LAT=37.363N LON= 29.489E Z= 14KM MB=4.5	GS
		TURKEY	
DEC 08	HU= 21: 2:41.4	LAT=35.163N LON= 27.769E Z= 33KM MB=3.7	GS
		DODECANESE ISLANDS	
DEC 10	HU= 2: 0:38.5	LAT=38.926N LON= 21.029E Z= 33KM MB=3.8	GS
		GREECE	
DEC 11	HU= 3:49: .1	LAT=34.972N LON= 23.292E Z= 37KM MB=4.2	GS
		CRETE	
DEC 12	HU= 0: 2:38.1	LAT=47.160N LON= 14.053E Z= 5KM MB=4.1	GS
		AUSTRIA	
DEC 13	HU= 8: 8:39.2	LAT=43.197N LON= .406H Z= 5KM MB=4.4	GS
		PYRENEES	
DEC 17	HU= 11:42: 4.3	LAT=44.938N LON= 7.047E Z= 33KM	GS
		NORTHERN ITALY	
DEC 20	HU= 17:44:25.8	LAT=38.794N LON= 14.822E Z=272KM MB=5.1	GS
		SICILY	
DEC 21	HU= 2:46:36.8	LAT=45.557N LON= 26.477E Z=172KM MB=4.0	GS
		RUMANIA	
DEC 21	HU= 8:17:50.9	LAT=46.087N LON= 14.288E Z= 11KM MB=4.1	GS
		YUGOSLAVIA	
DEC 22	HU= 2:35:15.0	LAT=34.119N LON= 24.819E Z= 33KM MB=4.0	GS
		CRETE	
DEC 24	HU= 13:53:50.9	LAT=35.046N LON= 27.820E Z= 33KM MB=4.3	GS
		DODECANESE ISLANDS	
DEC 24	HU= 20:22:45.4	LAT=34.706N LON= 24.623E Z= 37KM MB=4.9	GS
		CRETE	
DEC 25	HU= 0:44:49.9	LAT=36.412N LON= 7.853W Z= 33KM MB=4.5	GS
		STRAIT OF GIBRALTAR	
DEC 27	HU= 13:35:18.6	LAT=38.640N LON= 20.356E Z= 38KM MB=4.6	GS
		GREECE	
DEC 30	HU= 6:30:42.0	LAT=43.404N LON= 12.326E Z= 33KM MB=4.1	GS
		CENTRAL ITALY	

Fig. 5: ERL-epicenters
(1973)

- no magnitude given
- magnitude=3.0
- magnitude=6.0

