

**Earthquake catalogue for the Maghreb
region 20°N-38°N, 10°W-12°E
for the period 1900-1990 for $M_S \geq 3.0$**

Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E for the period 1900-1990 for $M_s \geq 3.0$.

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M_s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1901	MAR	9	22	26	0	35.73N	0.55E		4.6	—	—	—	6MK	—		RELIZANE. AL	NNA	
1903	SEP	23	1	55	0	36.00N	2.83E		5.6	—	5.0	—	7MK	—	*	MOUDJEBEUR. AL	BEN.MEZ,NNA.KAR.ROT	
1905	JUN	2	22	45	0	36.20N	1.28E		4.0	—	—	—	5MK	—		ORLEANSVILLE. AL	NNA.MEZ.ROT	
1907	AUG	9	1	21	0	35.73N	0.55E		4.6	—	4.2	—	6MK	—		RELIZANE. AL	NNA.KAR.MEZ	
1908	MAY	19	10	20	30	37.20N	4.10W		3.7 (1)	—	4.2	—	4MK	1	M	LOJA. SP	CHK	
1908	AUG	4	2	11	0	36.41N	6.61E		5.2	5.1	5.1	—	8MK	—	*	M	CONSTANTINE. AL	BEN.MEZ.KAR.ROT
1909	JUL	1	14	12	18	38.00N	0.70W		3.7 (1)	—	—	—	7MK	1		TORREVIEJA. SP	CHK	
1910	JUN	16	4	16	18	36.50N	4.00W	17	6.1	—	4.9	—	8MK	—		ADRA. SP	GUTE.MEZ.KAR	
1910	JUN	24	13	27	1	36.30N	3.70E		6.6	6.7	6.4	—	8MK	—	*		AUMALE. AL	BEN.NNA.MEZ.GUT.KAR
1910	AUG	20	1	20	0	36.10N	3.40E		4.7	—	—	—	7MK	—	M	AUMALE. AL	KAR.MEZ	
1911	JAN	7	1	33	0	36.10N	3.40E		5.1	—	4.2	—	6MK	—	M	AIN BESSEM. AL	KAR.MEZ.ROT.HHB	
1911	FEB	2	3	23	52	37.80N	8.00W		3.7 (1)	—	4.2	—	6MK	1		BEJA. SP	CHK	
1911	MAR	15	3	14	20	37.20N	3.70W		3.7 (1)	—	—	—	4MK	1		GRANADA. SP	CHK	
1911	MAY	31	15	13	44	37.20N	3.70W		4.2 (1)	—	4.9	—	8MK	4		SANTA FE. SP	CHK	
1911	AUG	12	22	2	44	37.10N	8.10W		4.2 (1)	—	5.2	—	6MK	4		LOULE. PO	CHK	
1912	JAN	25	4	0	0	37.70N	7.50W		3.7	—	—	—	6MK	—	M	MERTOLA. PO	KAR	
1912	JUL	11	7	18	0	37.70N	6.60W		4.4	—	—	—	6MK	—	M	ARACENA. SP	KAR	
1912	AUG	6	18	44	13	37.17N	4.33E		5.0 (2)	5.3	5.2	—	6MK	—		MEDITERRANEAN	MEZ.KAR	
1912	SEP	14	19	59	27	37.20N	3.60W		3.7 (1)	—	—	—	6MK	1		GRANADA. SP	CHK	
1913	JAN	8	20	35	0	35.30N	1.10E		4.6	—	—	—	6MK	—	M	TAGDEMPT. AL	KAR.MEZ.ROT	
1913	JAN	23	11	52	59	38.00N	7.90W		4.0 (1)	—	—	—	5MK	2		BEJA. PO	CHK	
1913	FEB	26	3	51	4	35.50N	0.50W		4.2	—	—	—	6MK	—	M	ORAN. AL	KAR.MEZ.ROT	
1913	MAY	4	9	53	42	36.50N	8.50W		4.9	—	—	—	6MK	—		SE. C.S. VICENTE	MEZ.KAR	
1913	NOV	25	2	27	29	37.80N	2.50W		3.7 (1)	—	—	—	7MK	1		HUESCAR. SP	CHK	
1914	FEB	6	21	50	3	37.20N	3.70W		3.7 (1)	—	—	—	5MK	1		SANTA FE. SP	CHK	
1914	MAY	28	21	14	0	37.40N	1.90W		4.2	—	—	—	5MK	—	M	LORCA. SP	KAR	
1914	JUN	27	17	16	21	37.10N	3.80W		4.3 (1)	—	4.2	—	5MK	5		VENTAS HUELMA. SP	CHK	
1914	JUL	3	6	51	13	37.20N	3.70W		3.7 (1)	—	—	—	3MK	1	A	SANTA FE. SP	CHK	
1915	JUL	11	11	28	5	34.50N	10.00W	50	6.2	6.2	—	—	5MK	—		ATLANTIC	ISS.MEZ.GUT	
1915	JUL	12	23	32	0	36.00N	9.00W		4.5	—	—	—	—	—	M	W.GIBRALTAR	KAR	
1915	JUL	17	13	41	20	37.00N	4.10W		3.7 (1)	—	—	—	3MK	1	A	ZAFARRAYA. SP	CHK	
1915	AUG	7	0	27	46	36.90N	2.40W		3.7 (1)	—	—	—	3MK	1		PECHINA. SP	CHK	
1915	AUG	19	17	54	23	35.30N	2.90W		4.0 (1)	—	—	—	3MK	2		MELILLA. MO	CHK	
1915	OCT	2	19	53	22	37.00N	4.10W		4.0 (1)	—	—	—	3MK	2		ZAFARRAYA. SP	CHK	
1915	NOV	4	14	49	0	35.25N	3.00W		4.6	—	—	—	4MK	—	F	M	NADOR. MO	KAR
1915	NOV	4	14	53	0	35.25N	3.00W		4.8	—	—	—	4MK	—	M	NADOR. MO	KAR	
1916	JAN	22	1	25	6	35.70N	0.60W		3.7 (1)	—	—	—	4MK	1		ORAN. AL	CHK	
1916	MAR	9	4	36	6	35.50N	3.50W		5.1	—	—	—	3MK	—		ALBORAN	MEZ.KAR	
1916	JUL	16	21	28	45	36.97N	4.12W		4.3 (1)	—	4.5	—	4MK	5		ZAFARRAYA. SP	MEZ	
1918	APR	1	17	44	5	33.30N	9.00W	27	4.5 (1)	—	—	—	5MK	8		GULF.CADIZ	ISS	
1918	AUG	29	8	53	24	36.00N	8.00W		4.1 (1)	—	—	—	—	3		GULF.CADIZ	CHK	
1918	SEP	15	16	41	6	34.50N	10.00W		4.2 (1)	—	—	—	—	4		ATLANTIC	ISS	
1919	JUN	26	19	0	19	36.67N	1.08W		4.6 (1)	—	4.2	—	—	11		MEDITERRANEAN	MEZ	
1919	JUL	29	19	25	0	33.30N	9.00W		4.5	—	—	—	—	12		BERKANE. MO	ISS.KAR	
1919	AUG	9	22	41	30	33.30N	9.00W		4.7 (1)	—	—	—	—	15		SI BRAHIM. MO	ISS	
1920	JAN	23	17	31	38	37.10N	8.70W		4.3 (1)	—	—	—	3MK	5		LAGOS. PO	CHK	
1920	FEB	25	17	56	23	35.50N	9.10E		5.6	5.0	5.9	—	8MK	29		THIBAR. TU	GUT.ISS.MEZ.KAR	

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M ₅	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1920	MAR	24	3	31	18	37.20N	4.10W		3.7	(1)	—	—	—	5MK	1	LOJA. SP	CHK	
1920	MAY	11	21	16	27	34.30N	3.90W		3.7	(1)	—	—	—	—	1	TAZA. MO	CHK	
1920	JUN	15	2	2	19	37.20N	3.60W		4.0	(1)	—	—	—	4MK	2	GRANADA. SP	CHK	
1920	JUL	13	1	36	12	37.10N	2.10W		4.1	(1)	—	—	—	3MK	3	SORBAS. SP	CHK	
1920	JUL	31	11	5	58	37.20N	4.10W		4.0	(1)	—	—	—	4MK	2	LOJA. SP	CHK	
1920	SEP	1	10	33	0	35.50N	6.40W		4.8	(1)	—	4.8	—	—	17	ATLANTIC	ISS	
1920	OCT	7	7	12	38	36.44N	2.09E		4.7	—	—	—	—	7MK	—	CHERCHELL. AL	NNA,MEZ	
1920	OCT	22	22	20	18	37.20N	3.60W		4.0	(1)	—	—	—	5MK	2	GRANADA. SP	CHK	
1920	DEC	1	9	9	44	37.20N	3.60W		3.7	(1)	—	—	—	5MK	1	PELIGROS. SP	CHK	
1921	OCT	22	21	18	50	34.00N	4.00E		4.8	—	—	—	—	—	5	OULED NAIL. AL	ISS,KAR	
1921	OCT	23	12	33	36	37.50N	9.00W		4.3	(1)	—	—	—	—	5	ATLANTIC	ISS	
1922	MAY	9	7	25	10	34.50N	1.50W		4.4	—	—	—	—	—	11	E.SEBDOU. AL	ISS,MEZ,KAR	
1922	JUL	27	3	0	54	35.50N	2.50W		4.4	—	—	—	—	7MK	7	ALBORAN	ISS,MEZ,KAR	
1922	AUG	2	6	10	45	35.50N	2.50W		4.3	(1)	—	—	—	—	5	ALBORAN	ISS	
1922	AUG	25	11	47	24	36.40N	1.30E		5.1	—	5.1	—	—	7MK	29	S.TENES. AL	BEN,NNA,ISS,KAR,MEZ	
1922	SEP	21	20	8	48	37.00N	4.00W		4.5	—	—	—	—	4MK	2	SANTA FE. SP	KAR	
1922	OCT	20	20	22	48	37.00N	10.00W		5.2	—	—	—	—	—	21	ATLANTIC	ISS,KAR	
1922	NOV	19	17	4	26	36.50N	1.50E		4.6	—	—	—	—	9MK	11	DBL.BISSA. AL	ISS,MEZ,KAR,ROT	
1923	FEB	19	16	33	39	36.15N	3.68E		4.6	—	—	—	—	6MK	—	AUMALE. AL	MEZ,ROT,KAR	
1923	MAY	17	10	36	54	35.00N	5.00W	32	4.4	—	—	—	—	3MK	12	E.OUEZZANE. MO	ISS,MEZ,KAR	
1923	JUL	9	15	31	16	35.50N	4.00W		5.6	—	—	—	—	6MK	35	ALBORAN	GUT,ISS,KAR,MEZ	
1923	OCT	19	9	2	0	36.00N	5.00W		4.4	—	—	—	—	—	10	GIBRALTAR	ISS,KAR	
1923	NOV	24	7	54	58	36.70N	7.32W		4.4	—	—	—	—	4MK	14	GULF.CADIZ	MEZ,ISS,KAR	
1924	MAR	2	6	45	40	37.50N	9.00W		5.0	—	—	—	—	—	6	ATLANTIC	ISS,KAR	
1924	MAR	4	1	50	30	37.00N	0.00E		4.2	—	4.0	—	—	6MK	5	MEDITERRANEAN	ISS,KAR	
1924	MAR	16	10	17	26	35.40N	5.80E		5.4	—	5.6	—	—	8MK	50	MAC—MAHON. AL	BEN,NNA,ISS,KAR,MEZ	
1924	JUL	19	12	48	0	36.42N	5.42E		4.6	—	—	—	—	7MK	11	TIZI N'BECHAR. AL	MEZ,ISS,ROT,KAR	
1924	SEP	22	22	4	10	36.50N	1.72W		4.4	(1)	—	—	—	—	7	MEDITERRANEAN	MEZ,ISS	
1924	OCT	15	4	15	42	37.00N	10.00W		4.5	(1)	—	4.8	—	—	8	ATLANTIC	ISS	
1924	OCT	18	22	47	30	37.20N	3.60W		4.7	(1)	—	4.0	—	—	5MK	14	SIER.NEVADA. SP	CRT
1924	NOV	5	18	54	31	36.60N	3.00E		4.8	—	5.2	4.9	—	—	8MK	37	BEN CHABANE. AL	BEN,GUT,ISS,MEZ,KAR
1924	NOV	6	17	58	12	36.65N	2.90E		4.2	(1)	—	4.7	—	—	7MK	4	BEN CHABANE. AL	MEZ,ISS,KAR
1924	NOV	6	18	40	20	35.30N	3.50E		4.1	(1)	—	—	—	—	3	N.MEDJEDEL. AL	ISS	
1924	NOV	6	22	59	58	36.65N	2.90E		4.7	(1)	—	—	—	—	6MK	13	BEN CHABANE. AL	MEZ,ISS
1924	NOV	28	22	57	16	36.73N	3.47W		4.1	(1)	—	—	—	—	3	MOTRIL. SP	ISS,MEZ	
1925	JAN	2	16	40	50	36.33N	4.00W		4.1	(1)	—	—	—	—	3	ALBORAN	MEZ	
1925	FEB	7	8	53	0	36.30N	3.50W		4.1	(1)	—	—	—	—	3	ALBORAN	ISS,MEZ	
1925	APR	17	5	41	57	37.00N	6.50W		4.6	(1)	—	—	—	—	10	GULF CADIZ	ISS	
1925	JUN	10	16	45	2	35.92N	2.70E		4.9	—	4.9	—	—	—	6MK	35	BOGHAR. AL	ISS,MEZ,KAR,ROT
1925	JUN	19	14	44	0	35.78N	0.18W		4.0	—	—	—	—	—	6MK	—	PORT POULES. AL	MEZ,KAR,ROT
1925	JUN	21	3	0	25	36.13N	0.57W	12	4.3	—	4.0	—	—	—	6MK	8	MEDITERRANEAN	ISS,MEZ,KAR,ROT
1925	JUN	24	1	37	9	35.22N	4.17E		4.4	(1)	—	—	—	—	5MK	6	BOU SAADA. AL	MEZ,ISS
1925	JUL	2	16	39	17	36.17N	3.67E		4.1	—	—	—	—	—	6MK	11	AUMALE. AL	ISS,MEZ,KAR
1925	AUG	4	0	22	6	23.70N	0.00E		4.7	(1)	—	—	—	—	—	14	OULD MOULOUD. AL	ISS
1925	SEP	30	13	25	25	34.00N	4.00E		4.8	(1)	—	—	—	—	—	17	OULED NAIL. AL	ISS
1926	JUN	12	23	29	22	36.77N	2.37W		4.6	—	4.5	—	—	—	6MK	23	GULF.ALMERIA. SP	ISS,MEZ,KAR
1926	JUN	25	11	16	30	37.00N	4.50W		4.4	(1)	—	—	—	—	5MK	7	ANTEQUERA. SP	ISS
1926	JUN	25	11	54	54	37.00N	4.50W		4.1	(1)	—	—	—	—	3	ANTEQUERA. SP	ISS	

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1926	JUN	25	15	14	42	37.00N	4.50W	10	4.2	—	4.5	—	4MK	12	M	ANTEQUERA. SP	KAR	
1926	AUG	15	14	17	52	36.00N	5.00W		4.2	—	—	—	7MK	7	F	BOBADILLA. SP	ISS,KAR	
1926	AUG	16	10	57	55	36.00N	5.00W		4.6	—	—	—	7MK	4	F	BOBADILLA. SP	ISS,KAR	
1926	AUG	18	15	54	40	36.00N	5.00W		4.8	—	—	—	5MK	12		BOBADILLA. SP	ISS,KAR	
1926	SEP	29	17	12	23	35.92N	5.72W		4.1	(1)	—	4.2	—	3	F	STRT.GIBRALTAR	MEZ	
1926	SEP	29	18	17	0	35.90N	5.70W		4.2	—	—	—	—	—	M	STRT.GIBRALTAR	KAR	
1926	OCT	11	6	38	40	36.00N	3.40W		5.6	4.5	—	—	7MK	65		N.MELLILA. MO	NNA,ISS,GUT,KAR,MEZ	
1926	OCT	11	6	58	54	35.00N	5.00W		4.1	—	—	—	—	4		W.TABERNANT. MO	ISS,KAR	
1926	OCT	11	7	2	43	35.70N	2.78W		4.2	(1)	—	4.1	—	3MK	4		ALBORAN	MEZ,ISS
1926	OCT	11	7	8	33	35.00N	5.00W		3.7	(1)	—	—	—	1	A	W.TABERNANT. MO	ISS	
1926	OCT	11	7	41	45	35.00N	5.00W		3.7	(1)	—	—	—	1	A	W.TABERNANT. MO	ISS	
1926	OCT	11	21	50	12	35.00N	5.00W		4.0	(1)	—	—	—	2	A	W.TABERNANT. MO	ISS	
1926	OCT	15	6	48	20	35.70N	2.78W		5.0	4.4	4.8	—	4MK	22	A	ALBORAN	ISS,MEZ,KAR	
1926	OCT	15	7	53	56	35.70N	2.78W		4.4	3.5	—	—	3MK	7	A	ALBORAN	ISS,MEZ,KAR	
1926	OCT	19	4	35	8	35.70N	2.78W		4.6	(1)	4.1	—	—	3MK	12	A	ALBORAN	MEZ,ISS
1926	NOV	3	17	59	36	36.00N	4.75W		4.2	—	4.0	—	3MK	5		ALBORAN	MEZ,ISS,KAR	
1926	NOV	5	11	17	50	36.33N	3.33W		4.3	(1)	—	—	—	5		ALBORAN	MEZ,ISS	
1926	NOV	6	21	0	32	35.27N	3.58W		4.3	3.9	4.3	—	—	12		ALBORAN	MEZ,ISS,KAR	
1926	NOV	13	8	46	58	35.45N	3.37W		4.3	(1)	3.8	—	—	4MK	5		ALBORAN	MEZ,ISS
1926	NOV	17	21	21	31	35.68N	3.37W		4.5	4.5	—	—	7MK	15		ALBORAN	MEZ,ISS,KAR	
1926	DEC	1	20	35	44	36.83N	3.22W		4.0	—	—	—	5MK	4		ALBONDON. SP	MEZ,ISS,KAR	
1926	DEC	1	21	4	16	36.83N	3.22W		4.2	(1)	—	—	4MK	4	A	ALBONDON. SP	MEZ,ISS	
1926	DEC	17	5	41	0	36.30N	1.80E		3.4	—	—	—	7MK	—	F	ROUINA. AL	KAR,ROT	
1926	DEC	17	6	23	18	36.25N	1.74E		4.5	—	—	—	6MK	—	M	ROUINA. AL	NNA,MEZ,HBB,ROT	
1927	MAR	14	0	0	20	37.00N	4.50W		4.3	(1)	—	—	—	5		ANTEQUERA. SP	ISS	
1927	APR	7	19	52	25	36.33N	3.53W		3.4	(2)	3.4	—	—	—		ALBORAN	MEZ	
1927	MAY	14	2	24	55	36.83N	2.47W		4.2	(1)	3.5	—	—	4MK	5		ALMERIA. SP	ISS,MEZ
1927	AUG	17	3	44	55	36.67N	2.17W		4.4	(1)	—	—	—	4MK	7		ALBORAN	ISS,MEZ
1927	SEP	8	8	52	50	35.33N	3.67W	33	5.1	4.6	—	—	6MK	60		CABO QUILA. SP	GUT,MEZ,CRT,KAR	
1927	SEP	12	16	48	27	35.33N	3.67W		4.2	4.1	4.3	—	—	12	A	CABO QUILA. SP	MEZ,ISS,KAR	
1927	SEP	30	6	42	21	35.33N	3.67W		4.2	3.8	4.0	—	3MK	5	A	CABO QUILA. SP	MEZ,ISS,KAR	
1927	OCT	21	23	7	40	37.00N	4.50W		4.3	(1)	—	—	—	5		ANTEQUERA. SP	ISS	
1927	OCT	24	13	36	36	36.50N	1.00W		4.4	(1)	—	—	—	7		MEDITERRANEAN	ISS	
1927	NOV	5	5	14	38	37.00N	4.50W		4.2	(1)	—	—	—	4		ANTEQUERA. SP	ISS,MEZ	
1927	NOV	8	4	1	54	37.50N	9.00W		4.7	—	—	—	5MK	8		C.ST. VINCENT. PO	ISS,KAR	
1927	DEC	3	10	9	8	35.73N	3.58W		4.4	(1)	4.2	—	—	3MK	7		ALBORAN	MEZ,CRT
1927	DEC	3	10	13	28	35.73N	3.58W		4.4	(1)	—	—	—	3MK	7	A	ALBORAN	MEZ,CRT
1927	DEC	31	7	13	2	36.83N	2.47W		3.2	(2)	3.2	—	—	4MK	—		ALMERIA. SP	MEZ
1928	JAN	9	16	38	39	36.67N	2.55W		3.1	(2)	3.0	—	—	3MK	—	A	G.ALMERIA. SP	MEZ
1928	FEB	11	18	26	20	32.00N	1.50W		5.2	—	—	—	—	9		REVOIL. AL	ISS,MEZ,KAR	
1928	FEB	19	20	42	10	37.20N	3.60W		4.2	(1)	—	—	—	4MK	4		GRANADA. SP	ISS
1928	APR	18	18	14	0	34.70N	4.50W		4.5	—	—	—	—	—	M	TEBERRANT. MO	KAR	
1928	JUL	5	3	39	35	36.35N	1.77E		4.6	—	—	—	6MK	4	M	ROUINA. AL	NNA,KAR,ISS	
1928	AUG	24	9	44	20	35.90N	0.90E		5.4	5.4	5.4	5.6	8MK	72	*	INKERMANN. AL	BEN,NNA,ISS,MEZ,KAR	
1928	OCT	4	15	2	45	36.42N	2.87W		4.1	(1)	—	—	—	3		ALBORAN	MEZ	
1928	DEC	3	5	30	0	36.40N	7.20E		4.9	5.0	5.1	—	—	35		GUELMA. AL	MEZ,ISS,KAR,ROT	
1928	DEC	5	2	42	39	36.92N	2.88W		4.5	(1)	3.8	—	—	4MK	8		SIERRA GAD. SP	MEZ,ISS
1928	DEC	25	12	3	42	36.83N	3.77W		4.3	(1)	—	—	—	5		SIERRA ALMA. SP	MEZ,ISS	

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	Ml	ITSC	NS	RMK	SITE	REFERENCES	
1929	JAN	4	20	58	0	33.50N	4.00W		4.3	—	—	—	7MK	15		OUTAT HAJ. MO	MEZ,ISS,KAR	
1929	JAN	11	1	52	0	35.50N	0.50W		4.4	4.5	4.8	—	7MK	19		ST.DENIS SIG. AL	ISS,MEZ,KAR,ROT	
1929	MAR	23	16	54	22	36.85N	2.95W		3.1	(2)	3.0	—	4MK	—		BERJA. SP	MEZ	
1929	MAR	28	11	3	16	36.78N	5.43W		4.1	4.7	—	—	6MK	9		GRAZALEMA. SP	MEZ,ISS,KAR	
1929	MAR	28	20	48	10	34.00N	4.00E		4.4	—	—	—	—	10		OULED NAIL. AL	ISS,MEZ,KAR,ROT	
1929	AUG	14	6	38	36	35.75N	3.67W	3	4.6	4.4	—	—	5MK	37		ALBORAN	ISS,MEZ,ALM,KAR,TOL	
1929	SEP	30	20	13	12	37.30N	4.00W		4.3	(1)	—	—	—	5		ALHAMA. SP	ISS	
1929	SEP	30	21	35	45	37.30N	4.00W		4.3	(1)	—	—	—	5	A	ALHAMA. SP	ISS	
1929	DEC	5	6	29	37	37.00N	4.07W		4.4	(1)	—	—	5MK	7		ALHAMA. SP	ISS,MEZ	
1930	FEB	10	8	4	0	37.10N	8.10W		5.0	—	—	—	6MK	—	M	C.ST. VINCENT. PO	KAR	
1930	MAR	6	22	52	41	37.20N	2.00W		3.5	—	—	—	6MK	—	M	N.ALMERIA. SP	KAR	
1930	JUL	5	23	11	47	37.75N	4.50W		5.6	—	—	—	8MK	56		MONTILLA. SP	GUT,ISS,KAR	
1930	JUL	9	18	9	0	35.00N	5.10W		4.6	—	—	—	—	—	M	E.OUEZZANE. MO	KAR	
1930	JUL	19	9	5	20	35.30N	3.80W		4.1	—	—	—	—	7		ALBORAN	KAR,ISS	
1930	AUG	6	3	58	4	37.40N	2.10W		4.0	—	—	—	6MK	—	M	S.HUERCAL. SP	KAR	
1930	AUG	9	18	9	38	34.30N	5.40W		5.2	4.7	—	—	8MK	41		AIN DEFALI. MO	ISS,GUT,MEZ,KAR	
1930	AUG	9	21	54	30	34.50N	5.40W		4.9	—	—	—	—	14	A	AIN DEFALI. MO	KAR,ISS	
1930	AUG	13	3	20	45	34.30N	5.40W		5.0	4.4	—	—	6MK	9	A	AIN DEFALI. MO	MEZ,ISS,KAR	
1930	SEP	3	9	59	46	38.00N	1.20W		4.5	—	—	—	7MK	11	M	LOS JERONIMOS. SP	KAR	
1930	SEP	9	15	30	54	33.70N	3.00W		4.1	—	—	—	—	7		S.DEBDOU. MO	ISS,KAR	
1930	SEP	16	0	30	44	36.97N	2.20W		3.9	(1)	3.4	—	5MK	3		NIJAR. SP	MEZ	
1930	SEP	30	13	48	18	36.97N	2.20W		3.7	(1)	—	—	4MK	1		NIJAR. SP	MEZ	
1930	OCT	19	2	43	3	35.00N	5.00W		4.3	—	—	—	4MK	7		N.OUEZZANE. MO	ISS,KAR,MEZ	
1930	DEC	24	14	27	43	34.50N	4.00W		4.8	4.3	4.0	—	7MK	9		BENI TOUZI. MO	ISS,MEZ,KAR	
1931	JAN	26	3	16	12	38.00N	1.20W		4.5	—	—	—	7MK	—	M	LOS JERONIMOS. SP	KAR	
1931	MAR	20	8	14	16	36.67N	2.47W		3.3	(2)	3.3	—	3MK	—		ALMERIA. SP	MEZ	
1931	JUN	30	13	35	49	36.55N	3.50W		4.3	3.3	4.0	—	4MK	6		ALBORAN	MEZ,CRT,KAR	
1931	JUL	10	16	52	24	36.05N	2.53W		4.5	4.4	—	—	4MK	10		ALBORAN	MEZ,ISS,KAR	
1931	AUG	15	13	52	6	36.10N	3.50E		4.2	5.2	4.9	—	8MK	23		DJBLDIRA. AL	ISS,MEZ,KAR,ROT	
1931	SEP	10	21	19	44	35.62N	2.88W		4.3	4.2	4.0	—	—	—		ALBORAN	MEZ,KAR	
1931	NOV	2	14	58	8	36.47N	2.83E		4.4	(2)	4.6	—	6MK	—		BLIDA. AL	MEZ	
1932	FEB	5	5	12	52	35.60N	4.50W		4.2	—	4.0	—	4MK	20		ALBORAN	CRT,KAR	
1932	FEB	13	0	3	1	36.00N	4.00W		3.7	(2)	3.8	—	4MK	—		ALBORAN	MEZ	
1932	MAR	5	2	10	28	37.50N	2.75W	2	5.6	—	4.8	—	8MK	35		LUCAR. SP	GUT,EBR,KAR	
1932	MAR	9	7	1	53	36.70N	2.00W		4.2	(1)	—	—	—	9		LUCAR. SP	ISS	
1932	AUG	31	7	34	35	37.70N	1.70W		3.8	(1)	—	3.5	—	4MK	5		LORCA. SP	CHK
1933	APR	11	2	30	13	36.60N	5.10W		4.5	(1)	—	4.2	—	6MK	15	F	EL ARAHAL. SP	CRT,KAR
1933	APR	11	3	7	32	36.60N	5.10W		4.5	(1)	—	4.2	—	5MK	15		EL ARAHAL. SP	CRT
1933	JUN	21	18	46	6	37.50N	0.50W		4.4	(1)	—	—	—	13		MEDITERRANEAN	ISS	
1933	JUL	18	6	4	58	36.03N	4.77W	25	4.3	4.6	4.6	—	5MK	24		ALBORAN	MEZ,ISS,KAR	
1933	AUG	24	16	45	41	37.60N	2.80W		4.4	(1)	—	3.9	—	12		CAZORLA. SP	ISS	
1933	AUG	24	17	25	2	37.60N	2.80W		3.9	(1)	—	—	—	6	A	N.GUADIX. SP	ISS	
1933	OCT	16	13	45	51	36.93N	2.43W		3.5	(2)	3.5	—	4MK	—		PECHINA. SP	MEZ	
1934	MAY	26	3	57	30	35.42N	4.00W		4.3	—	4.0	—	5MK	15		KEF EL GHAR. MO	MEZ,ISS,KAR	
1934	MAY	31	13	22	35	34.30N	4.80W		4.6	—	4.8	—	6MK	27		FEZ. MO	ISS,MEZ,KAR	
1934	JUN	5	23	40	0	35.00N	7.00E		4.6	—	—	—	—	—	M	NEMENCHA. AL	KAR,MAL,MEZ,ROT	
1934	JUL	13	10	51	13	36.10N	1.40E		4.0	—	—	—	4MK	—	M	LAMARTINE. AL	NNA,MEZ,CRT	
1934	JUL	23	8	8	12	36.10N	1.40E		3.7	—	—	—	—	—	M	LAMARTINE. AL	NNA	

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1934	JUL	29	17	5	3	36.67N	3.17W		4.2 (1)	3.7	—	—	5MK	9		ALBORAN	MEZ,ISS
1934	AUG	11	20	23	7	36.10N	1.40E		3.7	—	—	—	—	—	A	LAMARTINE. AL	NNA
1934	AUG	22	7	53	43	36.00N	1.30E		4.2	—	—	—	—	—	M	MALAKOFF. AL	NNA,MEZ,CRT
1934	SEP	6	19	25	59	36.30N	1.80E		4.6	—	—	—	—	—	M	KHERRATA. AL	NNA
1934	SEP	7	3	39	24	36.30N	1.70E		5.1	5.0	5.0	—	7MK	48	*	CARNOT. AL	BEN,NNA,ISS,MEZ,KAR
1934	SEP	7	20	24	37	36.00N	1.10E		4.5	—	—	—	—	26		MALAKOFF. AL	ISS
1934	SEP	8	21	0	0	36.40N	1.90E		4.3	—	—	—	—	—		AFFREVILLE. AL	NNA
1934	NOV	7	14	33	50	36.80N	1.88E		4.6	4.5	—	—	3MK	20		MEDITERRANEAN	MEZ,ISS,CRT,KAR,ROT
1934	NOV	12	8	31	57	38.00N	8.50W		5.6	—	4.5	—	3MK	26		S.MARCO. PO	GUT,MAL
1935	FEB	11	10	41	31	36.52N	2.80W		3.5 (2)	3.5	—	—	4MK	—		ALBORAN	MEZ
1935	MAR	11	7	52	24	38.00N	0.70W		3.5 (1)	—	4.1	—	4MK	3		TORREVIEJA. SP	CHK
1935	MAR	14	17	2	14	36.75N	3.75W		5.6	—	—	—	—	29		BENAMEJI. SP	GUT,ISS,CRT,KAR
1935	SEP	19	3	12	0	37.50N	7.00E		4.9	5.1	—	—	6MK	25		MEDITERRANEAN	MEZ,KAR,ROT
1935	OCT	6	15	13	15	36.62N	2.97W		4.2 (1)	3.8	—	—	3MK	9		ALBORAN	MEZ,MDD
1935	OCT	15	9	5	38	37.20N	3.60W		3.8 (1)	—	3.8	—	4MK	5		SIERA ALFAGUARA. SP	CHK
1935	OCT	18	7	54	20	34.83N	4.00W		4.2 (1)	4.2	—	—	5MK	9		GUEZNAYA. MO	ISS,MEZ
1935	NOV	15	6	58	2	35.42N	4.00W		3.7 (1)	4.2	—	—	4MK	4		ALBORAN	MEZ
1935	NOV	15	7	38	55	35.40N	4.00W	25	4.0 (1)	—	4.1	—	4MK	7		SE. SPAIN	MDD
1936	MAR	1	14	27	5	37.00N	2.42W		3.7 (1)	3.6	—	—	4MK	4		TABERNAS. SP	MEZ
1936	MAR	16	10	5	1	36.12N	5.18W		4.1 (1)	4.4	—	—	4MK	7		STRT. GIBRALTAR	MEZ,MAL,KAR
1936	MAR	29	3	6	49	36.53N	2.68W		3.7 (2)	3.8	—	—	—	—		ALBORAN	MEZ
1936	APR	21	2	1	2	36.70N	5.33W		3.9 (2)	4.0	—	—	6MK	—		VILALUENGA. SP	MEZ
1936	MAY	3	11	25	50	36.73N	5.25W		4.1 (1)	4.1	4.5	—	5MK	7		MONTEJAQUE. SP	MEZ,MAL,KAR
1936	MAY	5	3	11	0	36.73N	5.25W		3.9 (1)	4.2	—	—	6MK	5	A	MONTEJAQUE. SP	MEZ
1936	MAY	5	3	46	13	36.73N	5.25W		3.2 (1)	—	—	—	3MK	2	A	MONTEJAQUE. SP	MEZ
1936	MAY	6	0	31	47	36.70N	5.33W		3.9 (1)	3.6	—	—	6MK	5		VILALUENGA. SP	MEZ
1936	MAY	6	1	49	39	36.70N	5.33W		3.7 (1)	—	—	—	4MK	4	A	VILALUENGA. SP	MEZ
1936	MAY	28	0	28	47	36.70N	5.33W		4.7 (1)	4.6	4.6	—	7MK	20		VILALUENGA. SP	MEZ,ISS,KAR
1936	JUL	6	6	14	0	36.35N	2.25E		4.4	—	4.4	—	6MK	—		MILIANA. AL	NNA,MEZ,KAR,ROT,HHB
1936	SEP	17	1	12	6	36.00N	4.25W		4.0 (1)	3.9	—	—	4MK	6		ALBORAN	MEZ
1936	OCT	14	1	30	0	32.00N	6.20W		4.9	—	—	—	7MK	—		TILOUGIT. MO	MEZ,KAR
1936	DEC	22	23	20	2	36.83N	2.47W		3.4 (2)	3.4	—	—	4MK	—		ALMERIA. SP	MEZ
1936	DEC	28	0	29	0	33.80N	6.80E		5.0	4.9	4.9	—	6MK	28		N.EL OUED. AL	MEZ,ISS,KAR,ROT
1936	DEC	29	6	21	31	36.83N	2.47W		3.4 (2)	3.4	—	—	4MK	—		ALMERIA. SP	MEZ
1937	FEB	10	8	14	41	36.40N	7.50E		5.2	5.4	5.4	—	8MK	48	*	GUELMA. AL	BEN,ISS,MEZ,KAR,ROT
1937	JUL	20	0	27	7	36.83N	2.47W		4.0 (2)	4.1	—	—	4MK	—		ALMERIA. SP	MEZ
1937	AUG	21	23	55	16	35.10N	8.80W	34	4.8	4.8	—	—	4MK	21		CABO ST. VINCENTE	MEZ,ISS,KAR
1937	OCT	5	15	51	48	36.93N	4.18W		3.7 (2)	3.7	4.2	—	5MK	—		PERIANA. SP	MEZ,KAR
1937	OCT	23	17	23	14	36.42N	2.50W		4.2 (2)	4.3	—	—	4MK	—		ALBORAN	MEZ
1937	DEC	30	2	6	43	35.90N	4.60W		4.9	—	—	—	—	—	M	ALBORAN	KAR
1937	DEC	30	10	38	40	36.97N	5.22W		3.7 (2)	3.8	—	—	4MK	—		PRUNA. SP	MEZ
1938	MAR	2	7	43	51	36.42N	2.75E		5.0	—	—	—	7MK	—		LA CHIFFA. AL	MEZ,KAR,ROT,HHB
1938	MAR	30	15	6	6	32.20N	4.70W		3.8 (1)	—	5.1	—	—	5		SW. RICH. MO	CHK
1938	SEP	20	13	31	24	34.90N	5.40W	45	4.7 (1)	—	—	—	6MK	18		NE.OUEZZANE. SP	CHK,MEZ,ISS
1939	JAN	2	9	3	19	36.53N	2.75W		3.2 (2)	3.2	—	—	—	—		ALBORAN	MEZ
1939	JAN	8	10	9	24	36.80N	3.88W		3.8 (2)	3.9	—	—	4MK	—		FRAGILIANA. SP	MEZ
1939	APR	4	14	47	39	36.92N	4.07W		3.7 (2)	3.8	—	—	3MK	4		ALCAUCIN. SP	MEZ
1939	AUG	19	23	0	26	36.87N	4.03W		3.6 (2)	3.6	—	—	4MK	—	F	SEDELLA. SP	MEZ

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	Mi	ITSC	NS	RMK	SITE	REFERENCES
1939	AUG	19	23	3	57	36.87N	4.03W		3.6 (2)	3.6	—	—	3MK	—	F	SEDELLA. SP	MEZ
1939	AUG	19	23	17	10	36.87N	4.03W		3.4 (2)	3.4	—	—	3MK	—	F	SEDELLA. SP	MEZ
1939	AUG	19	23	36	43	36.87N	4.03W		5.0	4.3	—	—	5MK	—		SEDELLA. SP	MEZ
1940	MAR	5	1	50	25	36.87N	5.33W		4.3	4.6	—	—	7MK	11		EL GASTOR. SP	ISS,MEZ,KAR
1940	MAR	5	2	29	31	36.87N	5.33W		3.6 (2)	3.6	—	—	—	—	A	EL GASTOR. SP	MEZ
1940	MAR	5	9	24	58	36.87N	5.33W		3.5 (2)	3.5	—	—	—	—	A	EL GASTOR. SP	MEZ
1940	MAR	6	11	30	52	36.87N	5.33W		3.7 (1)	4.0	—	—	—	4	A	EL GASTOR. SP	MEZ
1940	APR	25	8	11	25	36.62N	5.17W		3.9 (1)	3.4	—	—	—	5		IGUALEJA. SP	MEZ
1940	MAY	16	6	47	57	37.40N	1.90W		4.7	—	—	—	—	5		PULPI. SP	KAR
1940	MAY	28	10	15	36	36.80N	3.03E		5.0	—	—	—	3MK	—		N.ALGER. AL	MEZ
1940	JUL	5	20	54	40	36.67N	4.00W		4.6	4.2	—	—	4MK	—		ALBORAN	MEZ,KAR
1940	AUG	15	11	32	50	36.63N	6.50W		3.9 (1)	4.1	—	—	5MK	5		GULF CADIZ	MEZ
1940	AUG	17	3	33	27	35.43N	4.00W		4.0 (2)	4.1	—	—	—	—		ALBORAN	MEZ
1940	AUG	17	22	58	15	36.62N	2.50W		4.2 (2)	4.3	—	—	4MK	—		ALBORAN	MEZ
1940	SEP	18	7	13	0	34.60N	3.30E		4.5 (1)	5.0	4.7	—	7MK	15		DIJELFA. AL	ISS,MEZ,BCS,KAR,ROT
1940	NOV	20	18	41	1	36.63N	3.50W		3.3 (2)	3.3	—	—	—	—		ALBORAN	MEZ
1941	MAR	17	8	10	30	33.70N	0.50E		4.7	—	—	—	6MK	—	M	GERYVILLE. AL	BCS,KAR
1941	MAY	13	17	53	54	36.87N	5.33W		3.4 (2)	3.4	—	—	4MK	—		EL GASTOR. SP	MEZ
1941	JUN	12	13	55	30	36.30N	3.18W		4.8	4.8	4.8	—	4MK	19		ALBORAN	ISS,MEZ,GUT,KAR
1941	JUN	22	18	15	0	32.50N	3.40W		4.4	—	—	—	—	—	M	TALSINNT. MO	KAR
1941	JUN	26	10	8	59	36.42N	4.42W		3.5 (2)	3.5	—	—	3MK	—		ALBORAN	MEZ
1941	OCT	7	3	25	55	36.68N	2.95W		3.7 (1)	3.3	—	—	5MK	4		ALBORAN	MEZ
1941	OCT	10	8	39	15	37.10N	4.30W		3.7 (1)	—	3.4	—	—	4		ARCHIDONA. SP	CHK
1941	OCT	19	4	34	52	36.40N	3.30W		3.6 (2)	3.6	—	—	4MK	—		ALBORAN	MEZ
1941	OCT	26	20	15	30	36.90N	2.48W		3.1 (2)	3.1	—	—	3MK	—		ALMERIA. SP	MEZ
1941	NOV	22	9	8	58	36.90N	2.48W		3.7 (2)	3.7	—	—	4MK	—		ALMERIA. SP	MEZ
1941	DEC	6	0	33	56	35.58N	3.25W		3.9 (1)	4.5	—	—	4MK	5		ALBORAN	MEZ
1941	DEC	27	18	17	38	35.80N	10.00W		6.0	5.5	—	—	4MK	9		ATLANTIC	MEZ,KAR
1942	FEB	28	0	55	18	35.43N	9.75W		4.9 (2)	5.1	—	—	—	—		SW C. ST. VINCENT	MEZ
1942	MAY	13	13	30	2	36.00N	4.08W		3.1 (2)	3.0	—	—	—	—		ALBORAN	MEZ
1942	JUN	10	2	58	27	36.50N	2.82W		3.1 (2)	3.1	—	—	—	—		ALBORAN	MEZ
1942	JUL	20	9	43	47	35.30N	4.10W		4.1 (2)	4.2	—	—	—	4		ALBORAN	MEZ
1942	DEC	21	1	53	16	36.97N	3.05W		3.1 (2)	3.1	—	—	4MK	—		UGIJAR. SP	MEZ
1943	JAN	10	17	41	7	36.80N	3.20W		3.0 (2)	2.9	—	—	—	—		ALBUNOL. SP	MEZ
1943	JAN	19	21	59	25	36.97N	4.03W		3.7 (2)	3.8	—	—	5MK	—		ALHAMA GRAN. SP	MEZ
1943	APR	16	11	43	16	35.90N	4.00E		5.3	5.0	5.0	—	8MK	44	*	MANSOURA. AL	BEN,ISS,MEZ,KAR
1943	MAY	3	11	58	30	37.90N	2.40W		3.8 (1)	—	3.8	—	—	5	F	PUEBLA FADRIQ. SP	CHK
1943	MAY	6	1	29	40	37.90N	2.40W		3.8 (1)	—	4.0	—	4MK	5		PUEBLA FADRIQ. SP	CHK
1943	JUN	7	12	37	35	36.08N	4.55E		4.7	4.4	—	—	6MK	—	A	MANSOURA. AL	MEZ,KAR
1943	JUN	10	7	47	31	36.08N	4.55E		4.7	4.6	5.0	—	6MK	—	A	MANSOURA. AL	MEZ,KAR,CRT,BCS
1943	JUL	1	5	51	27	37.30N	1.90W		3.1	—	—	—	6MK	—	M	CUEVAS. SP	KAR
1943	OCT	27	21	19	38	37.00N	2.72W		3.5 (2)	3.5	—	—	5MK	—		CANJAYAR. SP	MEZ
1943	OCT	30	14	38	44	37.00N	2.72W		3.1 (2)	3.0	—	—	—	—	A	CANJAYAR. SP	MEZ
1943	NOV	11	22	57	7	37.10N	1.70W		3.8 (1)	—	4.2	—	5MK	5		MEDITERRANEAN	CHK
1943	NOV	30	0	12	4	37.30N	6.10W		3.9 (1)	—	4.0	—	—	6		CORIA RIO. SP	CHK
1943	DEC	3	20	44	54	35.58N	4.17W		4.5	3.8	—	—	—	—		ALBORAN	MEZ,KAR
1944	JAN	27	1	54	44	37.60N	4.40W		3.8 (1)	—	3.5	—	4MK	5		DONA MENCIA. SP	CHK
1944	FEB	16	3	58	48	37.40N	2.40W		3.8 (1)	—	4.1	—	5MK	5		PURCHENA. SP	CHK

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	Ml	ITSC	NS	RMK	SITE	REFERENCES
1944	MAR	23	11	17	8	35.00N	3.30W		3.8 (2)	3.9	—	—	4MK	—		AZIB MIDAR. MO	MEZ
1944	APR	16	22	11	11	34.90N	3.50W		3.9 (2)	4.0	—	—	4MK	—		AZIB MIDAR. MO	MEZ
1944	APR	22	6	7	0	36.53N	2.85W		3.4 (2)	3.4	—	—	—	—		ALBORAN	MEZ
1944	MAY	18	11	24	23	37.20N	3.70W		3.7 (1)	—	—	—	4MK	4		GRANADA. SP	CHK
1944	SEP	30	17	13	34	36.83N	3.95W		3.9	4.1	—	—	6MK	—		COMPETA. SP	MEZ,KAR
1944	OCT	5	19	25	10	36.97N	3.05W		3.2 (2)	3.2	—	—	4MK	—		UGIJAR. SP	MEZ
1944	OCT	18	0	54	37	36.85N	2.95W		3.1 (2)	3.0	—	—	3MK	—		BERJA. SP	MEZ
1944	DEC	10	5	30	1	37.60N	3.40W		3.8 (1)	—	3.5	—	4MK	5		HUELMA. SP	CHK
1945	FEB	19	23	59	31	37.00N	9.70W		4.2 (1)	—	—	—	—	9		ATLANTIC	ISS
1945	MAR	23	23	12	46	37.30N	2.00W		3.7 (1)	—	3.4	—	4MK	4		ALMANZORA. SP	CHK
1945	MAR	24	4	58	23	36.58N	2.43W		3.2 (2)	3.2	—	—	3MK	—		ALBORAN	MEZ
1945	APR	17	8	6	58	36.75N	2.43W		3.3 (2)	3.3	—	—	3MK	—		GULF ALMERIA. SP	MEZ
1945	APR	27	14	43	48	36.44N	1.80E		4.2	4.4	—	—	5MK	—		N.KHERBA. AL	NNA,MEZ,KAR,BCS,ROT
1945	MAY	6	18	24	38	35.40N	2.90W		3.9 (2)	4.0	—	—	—	—		ALBORAN	MEZ
1945	MAY	17	18	17	2	36.42N	2.82W		3.9 (1)	3.3	—	—	—	5		ALBORAN	MEZ
1945	JUN	3	0	44	25	35.75N	2.70W		4.0 (1)	4.3	—	—	—	7		ALBORAN	MEZ
1945	JUN	5	15	20	51	37.60N	3.50W	25	4.2 (1)	—	4.1	—	5MK	9		HUELMA. SP	ISS
1945	JUN	17	9	44	0	36.70N	8.80W		4.1	4.4	—	—	—	—		GULF CADIZ	MEZ,KAR
1945	AUG	27	20	36	0	35.00N	3.50W		3.9 (1)	—	—	—	3MK	6		AZIB MIDAR. MO	MEZ
1945	SEP	19	6	48	2	35.57N	4.50W		4.0	—	—	—	5MK	7		ALBORAN	MEZ,ISS,KAR
1946	FEB	6	5	17	58	36.70N	2.40W		3.7 (2)	3.7	—	—	—	2		ALBORAN	MEZ
1946	FEB	12	2	43	25	35.70N	4.82E		5.6	6.2	5.6	—	8MK	91	*	BERHOUM. AL	BEN,NNA,ISS,GUT,KAR
1946	JUN	9	13	11	7	37.30N	3.20W		4.3 (1)	—	3.9	—	5MK	11		GUADIX. SP	ISS
1946	SEP	5	8	9	30	37.10N	5.40W		3.8 (1)	—	4.0	—	4MK	5	M	LA FRONTERA. SP	CHK
1946	SEP	9	17	26	26	36.40N	4.10E		5.6	5.2	—	—	7MK	39		ESNAM BOUIRA. AL	ISS,MEZ,GUT,BCS,ROT
1946	SEP	25	10	24	33	36.17N	1.33E		4.3	—	—	—	—	—	M	ORLEANSVILLE. AL	HHB
1946	OCT	2	3	3	54	35.00N	3.30W		3.0	—	—	—	6MK	—	M	TIZTOUTINE. MO	KAR,MEZ
1946	OCT	5	23	22	21	37.90N	0.20W		3.8 (1)	—	3.8	—	—	5		MEDITERRANEAN	CHK
1946	NOV	29	18	22	4	36.97N	2.65W		3.7 (2)	3.8	—	—	5MK	—		ROQUETAS. SP	MEZ
1946	NOV	29	23	33	22	36.88N	2.65W		3.2 (2)	3.2	—	—	—	—	A	ROQUETAS. SP	MEZ
1947	JAN	1	14	48	16	35.90N	4.40W		3.8 (1)	—	3.6	—	—	5		ALBORAN	MEZ
1947	APR	28	7	6	21	36.19N	1.23E		4.0	4.7	—	—	5MK	—		FROMENTIN. AL	NNA,MEZ,HHB
1947	MAY	30	22	25	31	35.80N	2.30W		3.9	—	4.5	—	6MK	15		ALBORAN	ISS,KAR,MEZ
1947	JUN	7	15	56	31	36.72N	2.45W		3.1 (2)	3.0	—	—	4MK	—		ALBORAN	MEZ
1947	AUG	6	9	46	38	36.31N	6.68E		5.0	5.3	5.2	—	8MK	50	* M	CONSTANTINE. AL	BEN,ISS,MEZ,KAR,CGS
1947	AUG	7	12	29	28	36.30N	6.70E		5.0	—	—	—	—	45	A	CONSTANTINE. AL	ISS,KAR
1947	SEP	18	13	29	22	37.30N	2.10W		3.2 (1)	—	3.4	—	3MK	2		CANTORIA. SP	CHK
1947	SEP	20	8	18	22	35.28N	2.92W		3.8 (2)	3.9	—	—	3MK	3		MELILA. MO	MEZ
1947	OCT	27	10	29	42	37.60N	8.50E		5.0	—	—	—	6MK	37		EL KALA. AL	ISS,MEZ,BCS,ROT
1947	NOV	24	17	10	5	37.60N	6.40W		4.3	—	4.7	—	5MK	18		ALAMO. SP	ISS,KAR
1947	DEC	16	12	11	32	36.90N	0.47W		3.8 (2)	3.9	—	—	—	—		MEDITERRANEAN	MEZ
1947	DEC	26	23	9	11	37.40N	2.50W		3.2	—	—	—	6MK	—	M	E.GUADIX. SP	KAR
1948	JAN	6	12	0	45	36.12N	3.20W		3.8 (1)	3.8	—	—	—	5		ALBORAN	MEZ
1948	JAN	8	1	6	2	37.10N	3.80W		3.7 (1)	—	3.6	—	4MK	4		V.HUELMA. SP	CHK
1948	FEB	16	2	46	28	36.30N	4.35W		3.7 (1)	3.9	—	—	—	4		ALBORAN	MEZ
1948	MAR	13	8	6	1	32.90N	0.10E		5.0	4.9	4.9	—	9MK	30		MNTS KSOURS. AL	ISS,MEZ,KAR,BCS,ROT
1948	JUN	23	3	43	55	38.00N	1.80W		4.9	—	—	—	8MK	—	M	SE. BULLASS. SP	KAR
1948	OCT	27	2	38	54	36.85N	2.47W		3.1 (2)	3.0	—	—	2MK	—		ALMERIA. SP	MEZ

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1949	FEB	17	21	1	0	36.52N	5.24E		4.7	4.9	4.9	—	7MK	42	* M	KHERRATA. AL	BEN,ISS,CGS,KAR,MEZ	
1949	MAR	31	1	48	6	37.00N	2.30W		3.3	(2)	3.3	—	5MK	—		SIER. ALHAMILLA. SP	MEZ	
1949	JUL	17	18	27	23	37.80N	4.90W		4.3	(1)	—	—	—	10		CORDOBA. SP	ISS	
1949	NOV	4	12	35	59	35.70N	0.70W		4.6	(1)	4.5	—	5MK	17		ORAN. AL	ISS,MEZ,BCS	
1950	FEB	8	23	39	7	36.29N	1.31E		4.2	(1)	3.1	4.4	—	5MK	8		WARNIER. AL	NNA,ISS,MEZ,KAR,BCS
1950	MAR	22	4	38	12	36.88N	2.57W		3.8	(2)	3.9	—	5MK	—		ENIX. SP	MEZ	
1950	APR	13	15	35	37	36.00N	9.00E		4.2	—	—	—	—	—		E.LES SALINES. TU	KAR	
1950	APR	20	17	19	13	34.00N	2.10E		5.0	—	5.1	5.1	5.5	7MK	100		AFLOU. AL	BEN,ISS,KAR,PDE,MEZ
1950	APR	24	3	19	24	35.60N	2.70W		4.1	(1)	4.3	—	3MK	7		CABOTRES. SP	MEZ	
1950	MAY	10	22	20	0	32.70N	5.50W		5.3	—	5.0	—	7MK	36		KEROUCHEN. MO	MEZ,ISS,BCS,KAR	
1950	MAY	18	20	37	49	35.87N	2.40W		3.8	(2)	3.9	—	—	—		ALBORAN	MEZ	
1950	MAY	21	10	44	29	35.70N	0.20E		4.6	—	4.0	—	5MK	—		BOUGUIRAT. AL	MEZ,KAR,BCS	
1950	JUN	12	15	44	16	38.00N	1.40W		3.7	(1)	—	3.5	—	6		MULA. SP	CHK	
1950	JUN	16	15	52	0	32.10N	5.70W		3.3	(1)	—	—	4MK	3		IMILCHIL. MO	CHK	
1950	JUL	1	12	19	43	37.00N	2.70W		3.8	—	—	—	6MK	8		N.ALMERIA. SP	ISS,BCS,KAR	
1950	JUL	6	14	18	50	37.00N	4.78W		3.4	(2)	3.4	—	—	—		TEBA. MO	MEZ	
1950	JUL	13	19	25	30	36.32N	3.00W		3.7	(2)	3.7	—	—	—		ALBORAN	MEZ	
1950	JUL	16	3	19	37	36.58N	2.58W		3.0	—	3.9	4.0	—	5MK	10		GULF.ALMERIA. SP	MEZ,ISS,KAR
1950	SEP	21	14	35	3	37.10N	3.70W		3.8	—	4.1	—	6MK	6	M	ALHAMA. SP	KAR	
1951	JAN	17	15	56	0	36.00N	4.00W		4.0	—	—	—	—	—		ALBORAN	MEZ,BCS	
1951	MAR	10	10	38	32	38.00N	3.70W		5.0	—	5.0	—	8MK	106		MENGIBAR. SP	ISS,MAL,CGS,KAR,PDE	
1951	MAR	15	7	39	22	36.40N	2.50W		3.3	(1)	—	—	—	3		ALBORAN	MEZ	
1951	MAY	9	20	2	0	37.90N	5.80W		4.4	—	4.4	—	6MK	—	M	GAZALLA SIERRA. SP	KAR	
1951	MAY	19	15	54	24	38.10N	3.70W	32	5.4	—	5.1	—	6MK	135		ALCAUDETE. SP	ISS,MDD,KAR	
1951	MAY	22	5	35	5	37.60N	3.50W		4.5	(1)	—	—	5MK	21		N. ILORA. SP	ISS	
1952	FEB	3	4	30	37	37.00N	2.70W		4.3	(1)	—	—	4MK	15		N.ALMERIA. SP	ISS,BCS	
1952	APR	1	4	21	59	36.20N	7.30E	4	4.3	(1)	—	—	4MK	15		AIN TESSAR. AL	ISS,MEZ,KAR,BCS	
1952	APR	12	10	46	35	36.95N	3.60W	25	4.2	—	4.0	—	3MK	—		PADUL. SP	MEZ,KAR	
1952	MAY	12	19	34	36	35.69N	6.47W	60	5.2	—	—	—	5MK	33		SW.ST. GIBRALTAR	MEZ,ISS,MDD,KAR,BCS	
1952	JUN	20	16	43	39	35.80N	0.20W		4.2	(1)	—	—	5MK	13		PORT POULES. AL	MEZ,ISS,BCS	
1952	AUG	4	12	56	7	36.70N	0.20E		4.0	(1)	—	—	5MK	10		MEDITERRANEAN	MEZ,ISS,TRI	
1952	AUG	25	4	6	33	35.30N	8.30E		4.1	—	—	—	—	—		W.KASSERINE. TU	KAR,BCS	
1952	AUG	31	15	45	22	35.50N	2.20W		3.7	(1)	—	—	5MK	6		ALBORAN	MEZ,ISS,BCS	
1953	JAN	26	0	11	40	36.50N	10.00W		3.9	(1)	—	4.5	—	4MK	8		SW.CS. VINCENTE	MEZ,BCS
1953	APR	26	22	11	25	36.73N	3.97W	5	3.5	(2)	3.5	—	3MK	—		TORROX. SP	MEZ	
1953	JUL	3	12	40	59	36.58N	3.60W	5	3.0	(2)	2.9	—	4MK	—		ALBORAN	MEZ	
1953	JUL	5	4	4	35	36.20N	3.50E		4.6	—	—	—	8MK	—		AUMALE. AL	MEZ,KAR,BCS,HHB	
1953	AUG	22	1	8	15	36.20N	3.60E		4.5	—	4.9	—	7MK	—		AUMALE. AL	MEZ,PDE,KAR,BCS	
1953	AUG	29	14	8	50	35.80N	5.00E		5.2	—	5.2	—	6MK	—		TOCQUEVILLE. AL	MEZ,PDE,KAR,BCS	
1953	OCT	10	4	5	37	37.10N	3.60W		4.0	(1)	—	4.0	—	5MK	6		GRANADA. SP	CHK
1953	NOV	8	18	33	37	36.49N	2.92W	15	4.0	(1)	2.8	—	—	6		ALBORAN	MEZ	
1953	NOV	10	13	59	6	36.70N	7.10W		4.2	(1)	4.3	—	5MK	8		GULF CADIZ	MEZ	
1953	DEC	25	5	59	29	36.27N	3.60E		4.8	—	4.9	—	7MK	—	A	BIR GHBALOU. AL	MEZ,KAR,BCS,HHB	
1954	JAN	8	16	33	50	36.93N	3.88W	25	4.0	—	4.2	—	8MK	6		ARENA S REY. SP	MEZ,ALI,KAR,BCS	
1954	JAN	11	9	46	42	36.90N	2.70W	15	4.1	(2)	4.2	—	3MK	3		ALMERIA. SP	MEZ,BCS	
1954	JAN	26	19	30	2	36.70N	2.63W		3.2	(2)	3.2	—	3MK	—		SABINAR. SP	MEZ	
1954	FEB	18	0	44	29	37.00N	6.40W		4.5	—	3.6	4.5	—	5MK	—		MARISMAS. SP	MEZ,KAR,ALI
1954	FEB	24	22	47	51	36.42N	4.42W		3.7	(2)	3.7	—	3MK	—		ALBORAN	MEZ	

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	Ml	ITSC	NS	RMK	SITE	REFERENCES
1954	MAR	9	20	23	31	36.40N	3.60W		3.1 (2)	3.1	—	—	—	—		ALBORAN	MEZ
1954	MAR	29	6	17	5	37.00N	3.50W	603	7.0	7.0	7.0	—	7MK	269		SIER.NEVADA. SP	ISS,CGS,KAR,MEZ,BCS
1954	APR	20	9	49	44	36.40N	3.02W	5	3.7 (1)	—	—	—	—	6		ALBORAN	MEZ
1954	APR	23	19	55	19	34.70N	4.90W		4.5	4.5	4.8	—	—	9		RHAFSAI. MO	MEZ,KAR,BCS
1954	JUN	15	22	35	44	36.90N	2.50W		3.1 (2)	3.0	—	—	3MK	—		ALMERIA. SP	MEZ
1954	JUN	23	19	37	57	36.87N	2.03W		3.2 (2)	3.2	—	—	3MK	—		HORTICHUEL. SP	MEZ
1954	SEP	9	1	4	37	36.31N	1.47E		6.7	7.0	6.8	—	10MK	211	* M	BENI RACHED. AL	BEN,NNA,ISS,CGS,MEZ
1954	SEP	9	1	49	48	36.00N	1.50E		5.0	—	6.7	—	10MK	—	A	LAMARTINE. AL	KAR,HHB,ROT
1954	SEP	9	2	49	48	36.00N	1.50E		6.2 (2)	6.7	—	—	11MK	—	A	LAMARTINE. AL	MEZ
1954	SEP	9	2	52	24	36.28N	1.47E		4.7	—	—	—	6MK	—	A	WARNIER. AL	BCS,MEZ,CGS,KAR
1954	SEP	9	4	14	42	36.00N	1.50E		4.5	—	—	—	—	—	A	LAMARTINE. AL	KAR
1954	SEP	9	5	5	12	36.00N	1.50E		4.5	—	—	—	—	—	A	LAMARTINE. AL	KAR
1954	SEP	9	9	28	42	36.28N	1.47E		5.1	6.0	5.5	6.0	10MK	64	A	WARNIER. AL	BCS,ISS,CGS,KAR,HHB
1954	SEP	10	5	44	5	36.60N	1.30E		6.3	6.0	6.0	6.2	8MK	146	A	TENES. AL	BEN,ISS,MEZ,CGS,KAR
1954	SEP	16	6	7	3	36.00N	1.50E		4.5	—	—	—	—	—	A	LAMARTINE. AL	KAR
1954	SEP	16	22	18	17	36.28N	1.47E		4.8	4.0	—	—	7MK	—	A	WARNIER. AL	BCS,MEZ,KAR
1954	SEP	17	12	2	34	36.28N	1.47E		4.2	—	—	—	8MK	—	A	WARNIER. AL	MEZ,BCS,KAR
1954	OCT	10	5	44	31	36.48N	1.30E		6.0 (3)	—	—	6.2	9MK	—	A M	MONTENOTTE. AL	BCS
1954	OCT	10	6	2	12	36.30N	1.80E		4.2	5.5	—	—	6MK	—	A	LAVARANDE. AL	BCS,MEZ,KAR
1954	OCT	12	19	23	29	36.25N	1.70E		4.5	6.0	—	—	7MK	—	A	OUED FODDA. AL	MEZ,BCS,KAR
1954	OCT	21	18	1	51	36.30N	1.60E		4.2	4.0	—	—	6MK	—	A	CARNOT. AL	MEZ,CGS,KAR,BCS
1954	OCT	26	22	33	58	36.75N	2.75W		3.3 (2)	3.3	—	—	3MK	—		EL EIJDO. SP	MEZ,BCS
1954	OCT	31	4	34	48	36.50N	1.40E		4.4	—	—	—	6MK	—		TENES. AL	MEZ,KAR,BCS
1955	JAN	14	0	22	14	36.68N	2.92W	5	3.3 (2)	3.3	—	—	—	—		ALBORAN	MEZ,ALI
1955	JAN	31	20	6	53	36.88N	3.45W	5	3.0 (2)	2.9	—	—	3MK	—		ORJIVA. SP	MEZ
1955	FEB	4	5	12	17	36.50N	1.60E	5	4.8	4.6	4.8	—	8MK	—	A	F.GARNIER. AL	MEZ,ALI,KAR,BCS,HHB
1955	MAR	26	14	35	13	36.65N	4.09W	5	3.7 (2)	3.7	—	—	3MK	—		ALBORAN	MEZ
1955	MAY	8	21	38	59	36.53N	1.46E	5	4.8	4.6	4.9	—	7MK	48	* M	BOUCHERAL. AL	BEN,ISS,MEZ,CGS,KAR
1955	MAY	12	0	10	11	35.70N	3.00W		3.9 (2)	4.0	—	—	2MK	—		ALBORAN	MEZ
1955	JUN	4	3	41	35	37.13N	3.64W	5	3.9 (1)	—	4.2	—	7MK	8		ZUBIA. SP	CHK
1955	JUN	5	14	56	13	36.31N	1.50E	5	5.1	4.7	5.8	—	8MK	98	* M	BENI RACHED. AL	BEN,ISS,KAR,MEZ,CGS
1955	OCT	30	16	15	47	34.50N	6.75E		4.4 (1)	—	—	—	—	18		ZERIBE. AL	MEZ,BCS
1955	DEC	13	1	12	9	36.73N	4.41W	20	3.6 (2)	3.6	—	—	—	—		MALAGA. SP	MEZ
1955	DEC	15	16	24	21	34.00N	4.10W		3.3 (1)	—	3.3	—	4MK	3		BAB ARBA. MO	CHK
1955	DEC	24	13	7	9	36.40N	1.70E	5	4.8	—	4.8	—	6MK	11	A	CARNOT. AL	BCS,ROS,MEZ,KAR
1956	JAN	14	3	5	54	36.30N	1.40E		3.6 (1)	—	—	—	6MK	5		ORLEANSVILLE. AL	MEZ,BCS,HHB
1956	JAN	17	23	50	30	36.40N	1.60E		3.6 (1)	—	—	—	6MK	5	A	KHERBA. AL	BCS,HHB
1956	JAN	26	5	2	22	36.08N	4.77W	5	3.5 (2)	3.5	—	—	—	—		ALBORAN	MEZ
1956	FEB	14	9	53	43	36.50N	1.50E	5	4.7	4.6	5.9	—	7MK	103		CAVAIGNAC. AL	ISS,MEZ,CGS,BCS,HHB
1956	FEB	23	2	17	58	36.50N	1.50E		3.9 (1)	—	—	—	6MK	9		DUPLEIX. AL	BCS,HHB
1956	FEB	27	12	38	11	36.97N	1.87W	5	3.1 (2)	3.1	—	—	3MK	—		MEDITERRANEAN	ALI,MEZ
1956	MAR	9	4	7	59	36.55N	9.61W	5	4.1 (1)	4.4	—	—	—	11		SW.C.S. VINCENT	MEZ,ALI
1956	MAR	29	5	5	8	37.30N	4.00W	5	3.8 (1)	—	3.4	—	2MK	7		CHIMENAS. SP	ALM,ALI
1956	APR	4	6	26	0	36.40N	1.50E		3.4 (1)	—	—	—	5MK	4		F.GARNIER. AL	MEZ,BCS,HHB
1956	APR	7	9	15	22	36.40N	3.70E		3.0 (1)	—	—	—	5MK	2		LAPERINE. AL	BCS
1956	APR	19	18	38	52	37.00N	4.00W	5	4.1 (1)	—	4.7	—	8MK	12		ALBOLOTE. SP	CGS,ALI,BCS
1956	MAY	23	0	5	21	36.40N	3.70E		4.1 (1)	4.5	—	—	6MK	11		AIN BESSAM. AL	BCS,MEZ
1956	MAY	23	6	38	48	36.40N	7.30E		4.2 (1)	—	—	—	8MK	14		H.MESKHOUTINE. AL	BCS,MEZ

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	Ml	ITSC	NS	RMK	SITE	REFERENCES	
1956	MAY	31	4	58	27	36.50N	4.80E		3.6	(1)	—	—	5MK	5	M	EL MATTEN. AL	BCS	
1956	JUN	5	11	41	24	37.17N	7.09W	5	3.6	(1)	—	4.2	6MK	5		GULF CADIZ	CHK	
1956	JUN	26	1	51	15	36.00N	8.10E		4.2	(1)	—	—	7MK	14		OUENZA. AL	BCS,MEZ	
1956	AUG	7	22	1	19	36.53N	9.58W	18	4.3	(2)	4.5	—	3MK	6		SW C.S. VICENTE	MEZ,ALI	
1956	AUG	16	2	9	40	36.91N	8.61W	5	5.0	(1)	5.0	—	6MK	50		SE. C.S. VICENTE	MEZ,ISS,ALI,CGS,BCS	
1956	AUG	23	21	33	54	36.16N	3.24W	5	3.5	(2)	3.5	—	3MK	—		ALBORAN	MEZ,ALI	
1956	NOV	29	12	31	36	36.73N	2.46W	5	3.5	(2)	3.5	—	3MK	—		ALMERIA. SP	MEZ	
1956	DEC	17	6	14	33	36.17N	1.33E		3.3	(1)	—	—	6MK	3		ORLEANSVILLE. AL	MEZ,BCS,HHB	
1956	DEC	28	3	23	28	36.75N	2.71W	5	3.8	(1)	3.8	—	5MK	7		SALINAS. SP	MEZ,ALI	
1957	JAN	7	19	16	15	36.28N	1.74W	5	4.0	(1)	3.5	—	3MK	10		MEDITERRANEAN	MEZ,ALI	
1957	FEB	20	4	41	1	36.24N	8.93E		5.1		5.6	5.6	9MK	102		LA MERIA. TU	ISS,MEZ,CGS,BCS	
1957	JUN	28	21	23	49	36.10N	1.38E	15	4.8		4.4	5.0	7MK	53		SENDIAS. AL	NNA,ISS,MEZ,CGS,BCS	
1957	JUN	29	23	46	39	36.32N	1.35W	5	4.0	(1)	4.6	—	4MK	8		MEDITERRANEAN	MEZ,ALI	
1957	JUL	15	9	36	30	36.00N	7.50W	100	4.6	(2)	4.8	—	4MK	—		W.GIBRALTAR	BCS,MEZ,CGS	
1957	AUG	15	20	42	2	36.03N	1.42E	5	4.3		4.7	—	8MK	—	M	ORLEANSVILLE. AL	ALI,MEZ,ABA,MAL,BCS	
1957	AUG	25	6	59	15	36.14N	2.96W	5	3.8	(2)	3.9	—	3MK	—		ALBORAN	MEZ,ALI	
1957	AUG	27	17	50	7	36.97N	2.20W		3.1	(2)	3.1	—	4MK	—		NIJAR. SP	MEZ	
1957	SEP	11	10	21	19	36.85N	2.46W	5	3.0	(2)	2.9	—	—	—		ALMERIA. SP	MEZ	
1957	OCT	22	10	31	29	36.83N	2.45W		3.4	(2)	3.4	—	3MK	—		ALMERIA. SP	MEZ	
1957	DEC	2	12	48	49	36.50N	1.31E	5	4.1		—	—	6MK	—		TENES. AL	NNA,MEZ,CGS,BCS,HHB	
1957	DEC	20	18	29	51	36.34N	4.18W	10	3.9	(2)	4.0	—	—	—		ALBORAN	MEZ	
1957	DEC	21	16	4	38	36.43N	1.51E	6	3.7	(2)	3.8	—	7MK	—		N.CAP TENES. AL	MEZ,CGS,BCS,HHB	
1958	JAN	24	10	24	30	36.50N	1.30E		3.0	(1)	—	—	5MK	2	A	TENES. AL	MEZ,HHB	
1958	JAN	25	8	45	0	36.50N	1.30E		3.3	(1)	—	—	4MK	3	A	TENES. AL	MEZ	
1958	JAN	26	2	47	23	36.42N	1.20E		3.3	(1)	—	—	7MK	3	M	CAVAIGNAC. AL	BCS,HHB	
1958	JAN	26	3	59	58	36.30N	4.90E		3.3	(1)	—	—	—	F	3	M	DOUAR BOKHMI. AL	BCS
1958	JAN	26	7	5	13	36.42N	1.20E		3.0	(1)	—	—	6MK	2	M	CAVAIGNAC. AL	BCS	
1958	JAN	26	8	34	54	36.50N	1.30E		4.8		—	—	6MK	3	A	TENES. AL	MEZ,BCS	
1958	JAN	27	5	42	15	36.30N	4.90E		3.3	(1)	—	—	—	F	3	M	DOUAR BOUKHMI. AL	BCS
1958	JAN	30	2	1	12	36.30N	1.80E		3.0	(1)	—	—	7MK	2		KHERBA. AL	MEZ,BCS,HHB	
1958	FEB	6	3	56	19	36.30N	1.70E		3.3	(1)	—	—	7MK	3		KHERBA. AL	MEZ,BCS,HHB	
1958	FEB	8	11	17	6	36.50N	1.30E		3.0	(1)	—	—	3MK	2		TENES. AL	MEZ,BCS	
1958	FEB	9	16	19	30	36.10N	1.50E		3.3	(1)	—	—	5MK	3		BOUGAINVILLE. AL	MEZ,BCS,HHB	
1958	FEB	10	2	0	0	36.50N	1.30E		3.3	(1)	—	—	5MK	3	F	TENES. AL	MEZ,BCS,HHB	
1958	FEB	10	19	43	18	36.50N	1.30E		3.0	(1)	—	—	6MK	2		TENES. AL	MEZ,BCS	
1958	FEB	13	1	30	0	36.30N	2.40E		3.0	(1)	—	—	3MK	2		H.RIGHA. AL	MEZ	
1958	FEB	16	18	59	55	36.51N	1.26E		3.0	(1)	—	—	—	F	2	M	TENES. AL	BCS
1958	FEB	18	9	2	24	36.20N	5.40E		3.3	(1)	—	—	6MK	3		MAHOUAN. AL	MEZ,BCS,HHB	
1958	FEB	20	4	12	0	36.70N	1.40E		3.0	(1)	—	—	5MK	2	F	CAVAIGNAC. AL	MEZ,BCS	
1958	FEB	20	20	39	4	36.50N	1.30E		3.4	(1)	—	—	6MK	4		CAVAIGNAC. AL	MEZ,HHB	
1958	FEB	22	16	16	42	36.42N	1.20E		3.0	(1)	—	—	5MK	2	A	M	CAVAIGNAC. AL	BCS
1958	FEB	22	20	39	54	36.48N	1.48E		3.0	(1)	—	—	5MK	2	A	5 PALMIERS. AL	MEZ,BCS	
1958	FEB	23	19	55	21	36.51N	1.26E		3.0	(1)	—	—	—	F	2	M	TENES. AL	BCS
1958	MAR	3	13	44	30	36.30N	2.80E		3.3	(1)	—	—	7MK	3		MEDEA. AL	MEZ,IPGM,BCS,HHB	
1958	MAY	11	0	38	12	36.57N	1.33E		3.3	(1)	—	—	5MK	3		C.TENES. AL	MEZ,BCS	
1958	MAY	13	17	57	6	36.30N	1.70E		3.0	(1)	—	—	4MK	2		KHERBA. AL	MEZ,BCS,HHB	
1958	MAY	17	5	25	33	31.81N	11.28E		5.1	(1)	—	—	—	58		LYBIA	ISS,CGS,BCS	
1958	MAY	21	0	0	23	36.60N	1.60E		3.0	(1)	—	—	4MK	2		CAVAIGNAC. AL	BCS	

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1958	JUN	7	13	18	24	36.70N	2.96W		3.9 (2)	4.0	—	—	5MK	—		BALERMA. SP	MEZ,ALI	
1958	SEP	13	13	10	31	36.60N	1.10E		3.4 (1)	—	—	—	5MK	4		TENES. AL	BCS,ROS	
1958	SEP	26	20	28	48	36.56N	1.68W		3.3 (2)	3.3	—	—	—	—		MEDITERRANEAN	MEZ,BCS	
1958	OCT	10	17	8	30	36.00N	1.50E		3.3 (1)	—	—	—	5MK	3		BOUGAINVILLE. AL	MEZ,BCS	
1958	OCT	22	4	28	30	36.60N	1.40E		4.2	4.6	—	—	5MK	15		TENES. AL	NNA,MEZ,BCS	
1958	NOV	8	12	48	35	36.42N	3.20W		4.1 (2)	4.2	—	—	—	—		ALBORAN	MEZ,BCS	
1958	DEC	2	20	13	9	36.33N	6.00E		3.4 (1)	—	—	—	—	4	M	CHAT. RHUMMEL. AL	BCS	
1958	DEC	26	19	46	42	36.40N	1.60E		3.0 (1)	—	—	—	5MK	2		CARNOT. AL	MEZ,BCS	
1958	DEC	28	8	26	50	36.22N	1.45E		4.1 (1)	—	—	—	6MK	11		LAMARTINE. AL	MEZ,BCS,HHB	
1959	APR	7	2	16	8	36.05N	2.85W	5	3.7 (2)	3.8	—	—	4MK	—		ALBORAN	MEZ,BCS	
1959	APR	18	6	45	23	34.10N	3.70W		3.0 (1)	—	3.4	—	—	2		SW.GUERCIF. MO	CHK	
1959	MAY	24	13	19	32	36.12N	4.51E	5	4.8	—	—	4.5	8MK	—		MANSOURA. AL	ISS,MEZ,CGS,BCS,IMP	
1959	AUG	4	7	12	7	35.50N	3.00W		3.7 (2)	3.7	—	—	4MK	—		ALBORAN	MEZ,BCS	
1959	AUG	23	22	21	29	35.73N	3.23W	20	4.6 (2)	4.8	5.5	—	6MK	—		ALBORAN	ISS,MEZ,MOS,CGS,BCS	
1959	AUG	29	13	31	36	35.80N	3.14W		4.3 (2)	4.4	—	—	—	—	A	ALBORAN	MEZ,MEZ	
1959	AUG	29	13	51	51	35.80N	3.14W		4.3 (2)	4.5	—	—	4MK	—	A	ALBORAN	MEZ,BCS	
1959	AUG	29	15	33	0	35.80N	3.14W		4.2 (2)	4.3	—	—	—	—	A	ALBORAN	MEZ,BCS	
1959	AUG	30	3	24	53	35.68N	3.14W		4.6 (2)	4.8	5.1	—	6MK	—		ALBORAN	ISS,MEZ,CGS,BCS	
1959	SEP	17	21	49	2	36.21N	3.20W		4.4 (2)	4.6	—	—	3MK	—		ALBORAN	MEZ,BCS	
1959	SEP	18	2	5	0	36.20N	3.00W	5	4.3	4.6	—	—	2MK	—	A	ALBORAN	BEN,MEZ,BCS	
1959	SEP	30	16	57	30	35.00N	3.00W	5	4.6 (2)	4.8	4.8	—	2MK	—		ALBORAN	CGS,MEZ,BCS	
1959	NOV	7	2	32	7	36.38N	2.55E		4.9	5.1	5.5	—	8MK	—	*	BOU MEDFAA. AL	BEN,ISS,MOS,CGS,MEZ	
1959	DEC	12	20	0	5	35.72N	0.56W		4.5	4.3	—	—	7MK	—		ORAN. AL	BEN,ISS,MEZ,BCS	
1960	FEB	9	11	21	7	36.50N	1.25E		3.4 (1)	—	—	—	6MK	4		ORLEANSVILLE. AL	BCS,MEZ,ROS	
1960	FEB	17	4	35	24	36.10N	1.20E		3.4 (1)	—	—	—	5MK	4		MALAKOFF. AL	BCS,MEZ	
1960	FEB	20	20	33	23	36.40N	2.50E		3.3 (1)	—	—	—	7MK	3		OUED DJER. AL	BCS,MEZ,IMPG	
1960	FEB	21	8	13	33	36.04N	4.17E	5	5.1	5.5	5.8	5.9	8MK	131	*	BENI ILMAN. AL	BEN,ISS,MOS,MEZ,CGS	
1960	FEB	26	16	16	46	36.20N	5.40E		3.4 (1)	—	—	—	6MK	4		SETIF. AL	BCS,MEZ,HHB	
1960	FEB	29	23	40	16	30.45N	9.62W		5.7	6.0	6.2	—	10MK	—	*	AGADIR. MO	BEN,ISS,CGS,MOS,MEZ	
1960	MAR	13	5	15	4	36.96N	3.20E		4.4 (1)	—	—	—	5MK	18		CAP MATIFOU. AL	MEZ,IMPG,BCS	
1960	APR	11	23	8	17	35.25N	4.25E		3.4 (1)	—	—	—	—	F	4	A M	NE.BOU SAADA. AL	BCS
1960	APR	24	23	21	41	30.90N	6.90W		3.0 (1)	—	3.0	—	5MK	2		OURZAZATE. MO	CHK	
1960	MAY	14	15	40	46	36.25N	9.42E	23	3.7 (2)	3.8	—	—	—	—		SW. C.S. VINCENT	MEZ,BCS	
1960	JUN	4	19	41	30	36.00N	4.00E		3.3 (1)	—	—	—	—	F	3		S. MELOUZA. AL	BCS
1960	JUN	18	2	54	26	36.97N	4.10W	5	3.2 (2)	3.2	—	—	3MK	—		ALHAMA GRAN. SP	MEZ	
1960	JUN	18	13	11	30	36.10N	4.30E		3.0 (1)	—	—	—	3MK	2	M	MANSOURA. AL	BCS	
1960	JUN	19	7	32	20	36.80N	5.80E		3.4 (1)	—	—	—	—	F	4		DJIDJELI. AL	BCS
1960	JUN	25	18	21	12	36.50N	4.50E		3.4 (1)	—	—	—	3MM	4	M	BENI MANSOUR. AL	BCS	
1960	JUL	7	2	57	12	36.00N	4.00E		3.4 (1)	—	—	—	—	F	4	M	S.MELOUZA. AL	BCS
1960	JUL	20	5	14	45	34.00N	1.50E		3.4 (1)	—	—	—	—	F	4	M	BOUALEM. AL	BCS
1960	JUL	27	14	10	43	36.30N	1.50E		3.3 (1)	—	—	—	4MK	3		LES ATTAFS. AL	MEZ,BCS,HHB	
1960	AUG	3	4	24	32	37.00N	7.00E		3.3 (1)	—	—	—	3MK	3		PHILIPPEVILLE. AL	MEZ,BCS	
1960	AUG	5	5	53	36	36.36N	1.38E	5	4.1	—	4.1	—	7MK	22		ORLEANSVILLE. AL	NNA,MEZ,BCS,HHB	
1960	SEP	5	7	45	32	36.80N	5.60W		3.6 (2)	3.6	—	—	5MK	—		E.LEBRIJA. SP	BCS,MEZ	
1960	OCT	9	2	3	0	32.00N	5.20W		4.6 (1)	—	4.7	—	6MK	24		ASSOUL. MO	MEZ,BCS	
1960	NOV	14	20	10	31	37.20N	4.80W	44	3.8 (1)	—	4.5	—	6MK	7		N.RONDA. SP	CGS	
1960	DEC	5	21	21	47	35.58N	6.54W	34	4.7 (2)	4.9	—	—	7MK	—		ATLANTIC	ISS,MEZ,CGS,BCS	
1960	DEC	12	20	5	2	37.52N	3.58W	50	3.8 (1)	—	3.5	—	—	7		IZNALLOZ. MO	ALI	

continued.

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1960	DEC	20	3	47	26	35.93N	3.21W	5	3.9	(2)	4.0	—	—	4MM	—	ALBORAN	ALM,BCS	
1961	MAR	11	8	29	9	36.25N	6.75W	5	3.5	(2)	3.5	—	—	—	—	W.GIBRALTAR	BCS,MEZ	
1961	APR	14	16	24	52	37.90N	1.10W		3.3	(1)	—	3.9	—	3MK	3	MURCIA. SP	CHK	
1961	MAY	29	5	27	27	36.00N	0.70W	5	4.0	(2)	4.1	—	—	—	—	MEDITERRANEAN	MEZ,BCS	
1961	JUL	22	5	9	22	36.70N	5.40W		4.2	(2)	4.3	—	—	—	—	UBRIQUE. SP	MEZ	
1961	AUG	25	19	59	50	36.30N	2.60W	5	3.8	(2)	3.9	—	—	—	—	ALBORAN	MEZ,BCS	
1961	SEP	11	15	28	23	36.50N	2.90E		3.4	(1)	—	—	—	7MK	4	BLIDA. AL	BCS	
1961	SEP	28	22	25	55	36.90N	8.00W		3.9	(2)	4.0	—	—	5MK	—	S.FARO PO	MEZ,BCS	
1961	OCT	6	3	21	9	36.50N	1.25E		4.5	(1)	3.9	—	—	6MK	20	N.ORLEANSVILLE. AL	ALL,MEZ,BCS	
1961	NOV	23	4	45	36	36.50N	2.80E		3.4	(1)	—	—	—	6MK	4	JOINVILLE. AL	MEZ,BCS	
1961	DEC	2	12	40	14	36.35N	8.39E	35	5.2	(2)	5.5	4.5	—	—	—	G.HARDIMAOU. TU	ISS,MOS,MEZ,CGS	
1962	JAN	7	14	25	15	36.40N	3.30W		3.7	(2)	3.8	—	—	—	—	ALBORAN	PAY	
1962	JAN	13	9	36	18	35.66N	3.57W	5	3.9	(2)	4.0	—	—	—	—	ALBORAN	MEZ	
1962	JAN	14	4	45	31	36.40N	3.50W		3.4	(2)	3.4	—	—	—	—	A	ALBORAN	MEZ
1962	JAN	15	16	49	12	36.46N	3.48W	5	3.7	(2)	3.8	—	—	—	—	A	ALBORAN	MEZ
1962	JAN	17	23	53	23	37.30N	3.10W	10	3.6	(1)	3.9	3.2	—	—	F	5	E.GRANADA. SP	MDD
1962	JAN	23	3	30	50	37.50N	4.50W		4.2	(2)	4.3	—	—	—	—	AGUILAR. SP	MDD	
1962	JAN	28	3	24	23	36.55N	7.60W	5	4.1	(1)	3.9	—	—	4MK	11	GULF CADIZ	MEZ,MDD,PAY	
1962	FEB	11	13	32	46	37.30N	7.10W	33	4.6	(2)	4.8	—	—	—	F	—	VERA ALMERIA.SP	MDD
1962	FEB	14	13	48	15	35.29N	3.43W	5	4.0	(2)	4.1	—	—	3MK	—	ALBORAN	MEZ,MDD	
1962	FEB	21	9	2	41	35.50N	3.40W		3.7	(2)	3.8	—	—	—	—	ALBORAN	MEZ	
1962	FEB	21	9	30	38	36.50N	3.10W		3.0	(2)	2.9	—	—	—	—	ALBORAN	PAY	
1962	MAR	1	22	19	57	35.91N	3.61W	5	3.3	(2)	3.3	4.0	—	5MK	—	ALBORAN	MEZ,MDD	
1962	APR	2	14	42	36	36.20N	2.40W		3.8	(2)	3.9	—	—	—	—	ALBORAN	PAY	
1962	APR	9	8	52	53	35.55N	9.18W	17	3.9	(2)	4.0	5.1	—	4MK	—	ATLANTIC	MEZ,BCS,MDD	
1962	APR	16	9	38	39	36.74N	2.27W	5	3.1	(2)	3.0	4.1	—	—	—	CABO GATA. SP	MEZ,MDD	
1962	MAY	8	8	35	41	37.10N	3.50W		3.6	(2)	3.6	—	—	—	—	S.NEVADA. SP	PAY	
1962	JUN	1	19	59	15	36.24N	3.01W	5	3.9	(2)	4.0	—	—	2MK	—	ALBORAN	MEZ,MDD,BCS	
1962	JUN	1	21	38	39	36.37N	3.00W	5	3.6	(2)	3.8	—	—	—	—	A	ALBORAN	MEZ,BCS
1962	JUL	15	18	56	19	36.58N	0.62W	9	3.1	(2)	3.1	—	—	4MK	—	MEDITERRANEAN	MEZ	
1962	JUL	16	16	22	3	36.80N	4.95W	5	3.3	(2)	3.3	—	—	—	—	BURGO. SP	MEZ,PAY	
1962	AUG	14	5	30	0	36.50N	5.30E		3.4	(2)	3.4	—	—	3MK	—	SOUK THENINE. AL	MEZ	
1962	AUG	14	22	38	37	36.60N	6.00W		3.2	(2)	3.2	—	—	3MK	—	SW.AR.FRONTERA. SP	MEZ	
1962	AUG	15	5	44	30	36.60N	6.00W		3.1	(2)	3.0	—	—	—	—	A	GULF CADIZ	PAY
1962	AUG	17	5	4	21	36.60N	6.00W		3.2	(2)	3.2	—	—	3MK	—	SW.AR.FRONTERA. SP	MEZ	
1962	AUG	25	19	58	47	36.14N	1.41E		4.3		3.9	—	—	6MK	—	ABADIA. AL	NNA,ALL,PAY,HHB	
1962	AUG	26	16	31	41	36.70N	1.30E	5	3.7	(2)	3.8	—	—	5MK	—	O.FODDA. AL	MEZ,PAY,HHB	
1962	AUG	29	16	48	55	36.72N	3.94W	5	3.1	(2)	3.0	—	—	—	—	NERJA. SP	MEZ	
1962	SEP	4	15	11	45	36.60N	8.75W	5	4.5	(2)	4.7	—	—	4MK	—	SE.CABO S. VINCENT	MEZ,PAY	
1962	SEP	9	1	47	13	36.30N	6.70W		3.1	(2)	3.0	—	—	—	—	GULF CADIZ	PAY	
1962	OCT	8	18	51	44	36.19N	1.66W	10	4.3	(2)	4.4	—	—	3MK	—	MEDITERRANEAN	MEZ,BCS	
1962	NOV	5	8	29	50	37.50N	2.80W		4.5	(2)	4.7	—	—	—	—	GRANADA. SP	PAY	
1963	JAN	26	13	47	6	35.90N	3.80W		3.1	(2)	3.0	—	—	—	—	ALBORAN	MEZ,MDD	
1963	JAN	27	16	10	22	36.36N	5.80W	5	3.5	(2)	3.5	—	—	—	—	BENALUP SIDON. SP	MEZ,PAY	
1963	MAR	28	4	29	25	35.80N	4.90W	30	3.6	(2)	3.6	—	—	4MK	—	ALBORAN	MEZ	
1963	MAR	31	14	58	4	35.26N	9.10W	13	5.1	(2)	5.4	5.2	—	3MK	—	ATLANTIC	MEZ,AVE,MDD,BCS	
1963	APR	21	5	31	58	35.80N	4.20W		3.5	(2)	3.5	—	—	—	—	ALBORAN	MEZ,PAY	
1963	JUN	20	19	47	34	35.55N	3.74W	40	4.9	(2)	5.1	4.3	—	4MK	—	ALBORAN	ISS,MDD,MEZ,BCS	

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1963	JUN	26	10	27	7	36.00N	3.44W	5	4.4 (2)	4.6	5.0	—	3MK	—	A	ALBORAN	MEZ,PAY,MDD,BCS
1963	JUN	26	11	20	42	35.60N	3.70W		3.8 (2)	3.9	—	—	—	—	A	ALBORAN	BCS,PAY
1963	JUN	27	11	45	8	37.20N	2.20W		3.1 (2)	3.0	—	—	—	—	A	ALBORAN	PAY
1963	JUN	30	12	42	18	35.73N	3.55W	5	3.1 (2)	3.1	—	—	—	—	A	ALBORAN	MEZ,PAY
1963	JUL	25	1	42	11	35.63N	3.65W	5	3.1 (2)	3.0	4.2	—	—	—	A	ALBORAN	MEZ,MDD,BCS
1963	AUG	1	1	49	26	36.95N	5.98W	5	3.2 (2)	3.2	4.2	—	—	—		FARO. PO	MEZ,BCS,MDD
1963	AUG	2	10	49	17	34.83N	8.80W	5	4.0 (2)	4.1	4.1	—	—	—		ATLANTIC	MEZ,BCS
1963	AUG	30	0	4	30	36.60N	2.00W		3.1 (2)	3.0	—	—	—	—		SE.CABO GATA. SP	MEZ
1963	SEP	4	5	6	46	36.02N	5.27E	39	5.6	6.3	5.7	—	—	—		AIN TAGROUT. AL	ISS,MOS,MEZ,BCS,HHB
1963	SEP	4	8	37	35	36.00N	5.20E		4.7 (2)	4.9	4.4	—	—	—	A	BIR HADDA. AL	MEZ,BCS
1963	SEP	5	17	11	8	35.60N	5.70E		4.3 (2)	4.5	4.0	—	—	—		E.BATNA. AL	BCS,MEZ
1963	SEP	8	0	44	17	36.44N	4.00W	20	3.6 (2)	3.6	—	—	—	—		ALBORAN	MEZ,PAY
1963	SEP	11	16	48	55	36.80N	3.00W		3.1 (2)	3.1	—	—	—	—		BERJA. SP	MEZ
1963	SEP	29	12	31	45	35.92N	4.16W		3.4 (2)	3.4	—	—	—	—		ALBORAN	MEZ
1963	OCT	1	7	15	58	37.80N	2.60W	33	3.1 (2)	3.1	4.1	—	—	—		N.HUESCAR. SP	BCS,MDD
1963	OCT	6	11	39	40	36.84N	3.75W	5	3.0 (2)	2.9	—	—	—	—		OLIVAR. SP	MEZ,PAY
1963	OCT	15	18	12	27	37.20N	4.60W		3.2 (2)	3.2	—	—	—	—	A	MALAGA. SP	PAY
1963	OCT	24	3	50	23	36.97N	4.61W	5	3.4 (2)	3.4	—	—	—	—	A	ANTEQUERA. SP	MEZ,MDD
1963	NOV	2	12	45	16	35.05N	4.65W	5	4.0 (2)	4.1	4.1	—	—	—		S.PUNTA PES. SP	MEZ,PAY,BCS
1963	NOV	18	5	33	10	36.55N	2.92W	5	3.1 (2)	3.0	—	—	—	—		ALBORAN	MEZ,PAY
1963	NOV	18	19	9	19	38.00N	0.00W		3.7 (2)	3.7	—	—	—	—		MEDITERRANEAN	PAY
1963	NOV	19	22	44	1	36.40N	4.00W		3.0 (2)	2.9	—	—	—	—		ALBORAN	PAY
1963	NOV	25	3	54	23	36.84N	3.96W	40	3.3 (2)	3.3	—	—	—	—		TORROX. SP	MEZ
1963	NOV	26	1	21	37	37.00N	8.00W		3.3 (2)	3.3	—	—	—	—		S.FARO. PO	PAY
1964	JAN	12	21	24	48	37.00N	3.87W		4.2 (2)	4.3	4.7	—	—	6		ALHAMA. SP	ISC,BCS,MDD
1964	JAN	29	1	47	53	37.10N	3.60W	33	4.0 (2)	4.1	4.7	—	—	5	A	E.ALHAMA. SP	ISC,MDD
1964	JAN	29	2	2	12	37.30N	3.70W		3.0 (2)	2.9	4.2	—	—	3	A	ALHAMA. SP	MDD
1964	JAN	29	2	2	36	37.30N	3.70W		3.9 (2)	4.0	4.5	—	—	5	A	ALHAMA. SP	MDD
1964	FEB	19	2	44	48	35.70N	3.60W	33	3.4 (2)	3.4	4.3	—	—	5		ALBORAN	MEZ,MDD
1964	MAR	1	10	19	58	37.80N	1.50W	33	3.3 (2)	3.3	4.4	—	—	5		N.MAZARRON. SP	MDD
1964	MAR	15	22	30	26	36.23N	7.61W	27	6.6	6.2	6.0	—	7MK	258		W.GIBRALTAR	ISC,CGS,MDD,MOS,MEZ
1964	MAR	15	23	52	45	36.20N	7.60W		3.2 (2)	3.2	—	—	—	—	A	W.GIBRALTAR	PAY
1964	MAR	16	2	44	43	36.20N	7.60W		3.8 (2)	3.9	—	—	—	—	A	W.GIBRALTAR	PAY
1964	MAR	16	22	21	13	36.20N	7.60W		3.3 (2)	3.3	—	—	—	—	A	W.GIBRALTAR	PAY
1964	MAR	17	22	30	45	36.20N	7.60W		3.1 (2)	3.1	—	—	—	2	A	W.GIBRALTAR	MDD
1964	MAR	18	8	2	14	36.20N	7.60W		3.6 (2)	3.6	—	—	—	2	A	W.GIBRALTAR	MDD
1964	APR	3	2	27	16	37.00N	4.70W	33	3.1 (2)	3.0	4.1	—	—	2		MALAGA. SP	MDD
1964	APR	9	22	29	55	35.81N	4.31W	5	3.7 (2)	3.7	4.2	—	—	3		ALBORAN	MEZ,MDD
1964	APR	17	18	53	2	37.20N	3.70W	33	3.9 (2)	4.0	4.2	—	—	4		GRANADA. SP	MDD
1964	APR	21	14	40	43	36.30N	3.55E	33	4.0 (2)	4.1	4.4	—	6MK	8		BIR GHBALOU. AL	ISC,MEZ,ALI,MDD,HHB
1964	APR	26	10	16	1	36.20N	4.60W	65	4.1 (2)	4.2	4.3	—	—	3		ALBORAN	PAY,MEZ,MDD
1964	APR	26	20	28	51	36.20N	4.27W	5	3.6 (2)	3.6	4.3	—	—	4		ALBORAN	MEZ,MDD
1964	APR	27	2	34	42	36.27N	1.64W	60	3.3 (2)	3.3	4.4	—	—	3		MEDITERRANEAN	MEZ,MDD
1964	APR	30	1	4	6	36.73N	4.57W	5	3.5 (2)	3.5	4.2	—	—	5		CARTAMA. SP	MEZ,MDD
1964	MAY	3	23	30	5	36.85N	1.77W	24	3.3 (2)	3.3	4.2	—	—	5		MEDITERRANEAN	MEZ,MDD
1964	MAY	13	13	46	33	36.50N	1.80W	33	3.9 (2)	4.0	4.7	—	6MK	23		ALBORAN	ISC,MDD,MEZ,BCS,HHB
1964	MAY	13	17	32	25	35.71N	4.96W	120	3.8 (2)	3.9	4.7	—	—	7		ALBORAN	MEZ,MDD,BCS
1964	JUN	9	2	33	36	37.80N	2.60W	12	4.5	4.5	5.2	—	8MK	52		GALERA. SP	BEN,ISC,MOS,MDD,CGS

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1964	JUN	9	3	3	8	37.60N	2.70W	33	3.2	(2)	3.2	4.0	—	—	3	A	NE.GUADIX. SP	MDD
1964	JUN	10	9	54	33	37.80N	2.50W	33	3.0	(2)	2.9	4.0	—	—	4	A	NE.GUADIX. SP	MDD
1964	JUN	11	22	50	14	37.80N	2.60W	33	3.5	(2)	3.5	4.3	—	—	5	A	NE.GUADIX. SP	MDD,BCS
1964	JUN	13	16	0	48	37.70N	2.30W	33	3.0	(2)	2.9	4.0	—	—	4	A	NE.GUADIX. SP	MDD
1964	JUN	18	11	26	10	37.50N	3.60W	33	3.0	(2)	2.9	3.9	—	—	3		NE.GUADIX. SP	MDD
1964	JUN	26	23	50	49	36.85N	1.82W	5	3.3	(2)	3.3	4.3	—	—	4		NE.CABO GATA. SP	MEZ,MDD
1964	JUN	27	2	35	35	37.80N	2.50W	33	3.6	(2)	3.6	4.1	—	—	4		NE.GUADIX. SP	MDD,BCS
1964	JUN	29	0	31	30	37.80N	2.50W	33	3.4	(2)	3.4	4.2	—	—	5	A	NE.GUADIX. SP	MDD,BCS
1964	JUL	3	21	35	30	37.90N	1.50W		3.3	(2)	3.3	4.0	—	—	3		MURCIA. SP	MDD
1964	JUL	13	12	25	5	36.70N	2.00W		3.8	(2)	3.9	4.7	—	—	7		ALMERIA. SP	ISC,MDD,BCS
1964	JUL	15	9	49	6	35.70N	4.40E	21	4.6		4.5	4.9	—	5MK	57	MANSOURAH. AL	BEN,ISC,CGS,MDD,MEZ	
1964	JUL	15	11	4	10	35.50N	0.20E	31	3.6	(2)	3.6	4.1	—	6MK	3	AIN FARES. AL	MEZ,BCS,HHB	
1964	JUL	28	0	34	21	36.80N	3.70E		3.3	(2)	—	—	—	6MK	—	TAHER. AL	MEZ	
1964	AUG	4	9	28	4	36.20N	3.70E	6	3.1	(2)	3.1	3.1	—	4MK	—	SOUR GHOZLANE. AL	MEZ,HHB	
1964	AUG	17	11	40	19	37.60N	2.80W		3.1	(2)	3.0	4.0	—	—	3		NE.GUADIX. SP	MDD
1964	SEP	1	16	4	28	36.73N	5.19W	5	3.7	(2)	3.7	4.4	—	—	5		RONDA. SP	MEZ,MDD
1964	SEP	6	2	34	6	36.86N	4.40W	5	3.3	(2)	3.3	4.1	—	5MK	4	CASABERMEJA. SP	MEZ,MDD	
1964	SEP	6	2	42	47	36.87N	4.40W		3.0	(2)	2.9	—	—	5MK	4	A	CASABERMEJA. SP	MEZ,MDD
1964	SEP	7	10	29	12	36.87N	4.40W		3.2	(2)	3.2	—	—	3MK	2	A	CASABERMEJA. SP	MEZ,MDD
1964	SEP	9	9	39	43	37.16N	3.57W	15	4.3	(2)	4.4	4.8	—	—	25		GRANADA. SP	ISC,MDD,CGS,BCS
1964	SEP	9	12	44	2	36.77N	4.66W	5	3.1	(2)	3.0	4.1	—	4MK	4		PIZARRA. SP	MEZ,MDD,BCS
1964	SEP	11	9	13	16	36.83N	4.67W	5	3.3	(2)	3.3	4.3	—	4MK	4		ALORA. SP	MEZ,MDD
1964	SEP	14	16	28	47	36.81N	4.69W	5	3.2	(2)	3.2	4.2	—	5MK	4	A	ALORA. SP	MEZ,MDD
1964	SEP	24	18	14	31	37.00N	3.50W		3.5	(2)	3.5	—	—	—	—		MALAGA. SP	PAY
1964	SEP	29	5	19	33	36.58N	2.08W	40	3.1	(2)	3.0	3.9	—	—	3		ALBORAN	MEZ,MDD
1964	OCT	2	9	39	24	35.37N	0.32E	5	3.2	(2)	3.2	4.2	—	5MK	5		CACHEROU. AL	MEZ,ALI,MDD,HHB
1964	OCT	3	5	23	18	36.84N	4.16W	5	3.1	(2)	3.0	4.1	—	—	4		VINUELA. SP	MEZ,MDD
1964	OCT	10	2	19	19	37.40N	2.70W		3.0	(2)	2.9	4.3	—	—	4		GRANADA. SP	MDD
1964	OCT	21	19	17	44	36.23N	4.38E	5	4.2	(2)	4.3	4.5	—	7MK	24		W.BENI MANSOUR. AL	ISC,MEZ,CGS,BCS,HHB
1964	NOV	2	11	39	50	36.74N	2.66W	5	3.6	(2)	3.6	4.1	—	3MK	5		SALINAS. MO	MEZ,MDD,BCS
1964	NOV	9	15	45	44	37.10N	9.30W		3.3	(2)	3.3	—	—	—	8		ATLANTIC	ISC,BCS
1964	NOV	15	20	3	55	34.85N	5.47W	48	4.5		4.8	4.8	—	5MK	74		QUEZZANE. MO	ISC,MDD,CGS,MOS,MEZ
1964	NOV	23	2	37	51	36.86N	4.52W	5	3.3	(2)	3.3	4.1	—	3MK	3		CASABERMEJA. SP	MEZ,MDD,BCS
1964	DEC	23	6	47	9	36.92N	4.40W	5	4.1	(2)	4.2	4.8	—	3MK	10		MALAGA. SP	ISC,MDD,BCS,MEZ
1964	DEC	29	1	0	53	36.99N	4.19W		3.4	(2)	3.4	4.8	—	—	6		GRANADA. SP	ISC,MDD,BCS
1964	DEC	29	10	24	44	37.06N	4.17W	4	3.4	(2)	3.4	4.7	—	—	8	A	GRANADA. SP	ISC,MDD,BCS
1965	JAN	1	17	32	30	35.61N	4.40E	56	4.1	(2)	4.2	4.9	—	—	27	F	M'SILA. AL	ISC,MDD,CGS,MEZ
1965	JAN	1	21	38	32	35.71N	4.49E	13	5.5		5.1	5.5	—	7MK	162	* M	M'SILA. AL	BEN,ISC,MDD,CGS,MOS
1965	JAN	9	8	30	35	36.55N	4.41W	5	3.3	(2)	3.3	4.5	—	4MK	4		ALBORAN	MEZ,MDD
1965	JAN	9	21	36	27	35.60N	4.60E		3.6	(2)	3.6	4.8	—	—	8	A	M'SILA. AL	ISC,MDD,MEZ,BCS
1965	JAN	15	23	47	30	35.73N	4.32E	52	5.1		4.7	5.2	—	6MK	84	A	M'SILA. AL	BEN,ISC,MDD,CGS,MEZ
1965	JAN	25	8	58	52	37.00N	8.80W	96	4.1	(2)	4.2	5.1	—	3MK	27		C.SAN VICENTE. PO	ISC,MDD,MEZ,BCS
1965	JAN	27	16	53	12	36.64N	2.11W	5	3.2	(2)	3.2	3.9	—	—	—		SE.CABO GATA. SP	MEZ,MDD
1965	FEB	19	18	58	5	36.20N	5.20W		3.3	(2)	3.3	4.3	—	—	4	F	GIBRALTAR	MDD,MEZ
1965	FEB	20	4	55	8	36.20N	5.20W	5	3.7	(2)	3.8	4.6	—	—	5		GIBRALTAR	MDD,BCS,MEZ
1965	APR	5	6	16	36	37.80N	2.20W		4.0	(2)	4.1	4.3	—	—	7		GRANADA. SP	ISC,MDD,BCS
1965	APR	6	17	39	40	37.40N	2.30W		4.0	(2)	4.1	4.5	—	—	6		GRANADA. SP	ISC,MDD,BCS
1965	APR	8	12	0	56	36.20N	1.40E		3.6	(2)	3.6	—	—	5MK	—		EL-ASNAM. AL	MEZ,RBA

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

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YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	Ml	ITSC	NS	RMK	SITE	REFERENCES
1965	APR	14	18	5	17	35.30N	5.70W	5	3.6 (2)	3.6	4.3	—	3MK	6		ALCAZARQUIVER. MO	MDD,BCS,MEZ
1965	APR	19	3	7	46	35.30N	2.40W	24	4.1 (2)	4.2	—	—	2MK	9		C.DE.AGUA. MO	ISC,CGS,MDD,MEZ
1965	MAY	1	9	47	32	38.00N	3.80W		3.4 (2)	3.4	4.3	—	—	4		JAEN. SP	MDD
1965	MAY	6	19	17	47	36.00N	7.90W	96	3.7 (2)	3.8	4.4	—	—	4		W.GIBRALTAR	MDD,MEZ
1965	MAY	28	16	38	34	36.30N	3.20W		3.5 (2)	3.5	4.3	—	—	5		ALBORAN	ISC,MDD,MEZ
1965	JUN	24	3	28	58	37.50N	2.50W		3.0 (2)	2.9	3.8	—	—	3		SIERRA LUJAR. SP	MDD
1965	JUN	29	15	26	34	35.60N	4.70W	33	3.0 (2)	2.9	4.1	—	—	3		ALBORAN	MDD,MEZ
1965	JUL	5	13	33	46	36.89N	0.14W	40	3.2 (2)	3.2	4.0	—	—	2		MEDITERRANEAN	MEZ,MDD
1965	JUL	6	17	0	50	36.50N	3.70E	2	4.0 (2)	4.1	4.2	—	6MK	24		THIERS. AL	ISC,MEZ,MDD,BCS,HHB
1965	JUL	15	7	37	6	36.92N	3.58W	5	3.1 (2)	3.0	4.1	—	—	3		PINOS VALLE. SP	MEZ,MDD
1965	JUL	22	11	47	44	36.50N	3.70E	5	3.9 (2)	4.0	4.0	—	6MK	—		THIERS. AL	MEZ,HHB
1965	AUG	3	8	40	0	37.70N	2.30W		3.4 (2)	3.4	4.3	—	—	3		E.HUESCAR. SP	MDD
1965	AUG	7	21	29	36	36.40N	3.20W	9	3.6 (2)	3.6	4.1	—	—	5		ALBORAN	MDD,MEZ
1965	AUG	22	15	43	5	37.10N	2.20W		3.1 (2)	3.0	—	—	—	4		ALMERIA. SP	MDD
1965	SEP	5	22	6	59	34.40N	8.30E	33	4.3 (2)	4.4	—	—	—	15		REDEYEF. AL	CGS
1965	SEP	7	6	16	44	35.14N	4.39E	8	4.3 (2)	4.5	4.5	—	7MK	33		BOU SAADA. AL	ISC,MEZ,CGS,MDD,BCS
1965	OCT	25	21	3	20	36.40N	2.80E	7	3.8 (2)	3.9	3.9	—	6MK	—		E.EL AFFROUN. AL	MEZ,HHB
1965	NOV	3	15	12	6	35.50N	3.50W		3.1 (2)	3.0	—	—	—	4		ARKAR. MO	RBA
1965	NOV	8	23	4	20	35.90N	3.40E	33	4.1 (2)	4.2	4.2	—	6MK	10		SIDI AISSA. AL	CGS,MEZ,ALI,BCS
1965	NOV	15	6	26	54	36.90N	4.50E	33	4.0 (2)	4.1	4.1	—	6MK	7		PORT GUEYDON. AL	CGS,MEZ,BCS,HHB
1965	NOV	28	13	38	13	36.55N	3.59W	5	3.7 (2)	3.7	4.4	—	—	3		ALBORAN	MEZ,MDD,BCS
1965	DEC	1	18	11	32	36.10N	7.50W	14	3.3 (2)	3.3	4.0	—	—	5		W.GIBRALTAR	MDD,MEZ
1965	DEC	5	3	50	10	34.91N	5.55W	33	4.3 (2)	4.5	4.5	—	6MK	23		OUEZZANE. MO	ISC,MDD,RBA,CGS,MEZ
1965	DEC	12	14	40	58	37.30N	3.20W	5	3.1 (2)	3.1	3.9	—	—	3		GRANADA. SP	MDD,MEZ
1966	JAN	2	10	0	48	36.50N	3.00E		3.9 (2)	4.0	—	—	3MK	3		S.ALGER. AL	BCS
1966	JAN	12	21	5	32	36.71N	4.40W	68	3.7 (2)	3.7	4.5	—	3MK	9		ALBORAN	ISC,MDD,RBA,MEZ,BCS
1966	JAN	16	23	59	40	36.40N	4.10W		3.5 (2)	3.5	—	—	3MK	1		ALBORAN	RBA,MEZ
1966	JAN	19	10	20	2	36.20N	4.20W		3.6 (2)	3.6	—	—	—	3		ALBORAN	MDD,RBA
1966	JAN	26	21	5	0	35.60N	4.90W	5	3.0 (2)	2.9	—	—	—	4		ALBORAN	MDD,RBA,MEZ
1966	FEB	19	16	24	26	36.50N	9.30W	5	3.2 (2)	3.2	4.4	—	—	5		W.GIBRALTAR	MDD,MEZ
1966	FEB	23	3	16	11	35.40N	6.70W	33	3.1 (2)	3.1	—	—	—	3		ATLANTIC	MDD,RBA,MEZ
1966	FEB	26	1	9	48	37.20N	2.70W		3.2 (2)	3.2	3.6	—	—	3		ALMERIA. SP	MDD
1966	MAR	3	21	7	42	36.25N	3.00E		3.8 (2)	3.9	—	—	5MK	5		E.MEDEA. AL	MEZ,BCS,HHB
1966	MAR	4	4	53	32	36.09N	7.64W	26	4.1 (2)	4.2	4.7	—	—	17		W.GIBRALTAR	ISC,CGS,MDD,RBA,MEZ
1966	MAR	19	20	30	59	35.40N	3.70W		3.2 (2)	3.2	4.0	—	—	5		ALBORAN	MDD,MEZ
1966	MAR	24	3	34	51	36.09N	7.71W	5	3.5 (2)	3.5	—	—	—	6		W.GIBRALTAR	MEZ,MDD,RBA
1966	APR	3	5	11	36	36.38N	2.77E	14	4.1 (2)	4.2	4.5	—	7MK	36		BLIDA. AL	ISC,CGS,MDD,MEZ,BCS
1966	APR	29	10	27	2	37.05N	2.66W	5	3.7 (2)	3.7	4.1	—	4MK	6		ROQUETAS. SP	ISC,MDD,MEZ,BCS
1966	MAY	17	21	1	51	36.16N	4.40W	5	3.6 (2)	3.6	—	—	—	6		ALBORAN	ISC,MDD,BCS
1966	MAY	18	20	5	38	36.52N	9.86W	37	4.0 (2)	4.1	4.7	—	—	19		W.GIBRALTAR	ISC,MDD,CGS,RBA,MEZ
1966	MAY	19	7	40	32	36.20N	6.60W		4.0 (2)	4.1	4.2	—	—	4		W.GIBRALTAR	MDD,MEZ
1966	MAY	24	10	47	2	35.52N	4.12W	7	3.8 (2)	3.9	4.7	—	—	13		ALBORAN	ISC,MDD,RBA,BCS
1966	MAY	29	14	30	26	36.26N	3.52W	5	4.3 (2)	4.4	4.5	—	—	9		ALBORAN	ISC,MDD,RBA,MEZ,BCS
1966	JUN	1	0	1	33	35.40N	4.20W		3.0 (2)	2.9	—	—	—	—		ALBORAN	MDD
1966	JUN	2	18	37	48	36.47N	7.59W	22	4.3 (2)	4.4	5.1	—	4MK	40		W.GIBRALTAR	ISC,MDD,CGS,MEZ,BCS
1966	JUN	8	5	32	37	35.50N	5.00W		3.0 (2)	2.9	—	—	—	6		TETUAN. MO	BCS,MDD
1966	JUN	16	2	36	22	37.20N	4.00W		3.3 (2)	3.3	—	—	—	2		GRANADA. SP	MDD
1966	JUN	22	4	22	40	37.00N	3.60W	5	3.3 (2)	3.3	4.4	—	—	4		PADUL. SP	MDD,MEZ

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1966	JUN	24	3	21	33	36.40N	9.10W		3.1	(2)	3.0	—	—	—	3	W.GIBRALTAR	MDD
1966	JUL	13	12	14	47	37.40N	2.40W		3.1	(2)	3.1	4.2	—	—	3	ALMERIA. SP	MDD
1966	JUL	20	22	22	1	36.80N	2.70W		3.6	(2)	3.6	4.3	—	—	2	DALIAS. SP	MDD,MEZ
1966	AUG	5	5	30	5	37.70N	9.60W		3.5	(2)	3.5	4.6	—	—	7	PONCHIQUE. PO	ISC,MDD
1966	AUG	19	16	16	15	37.00N	2.50E	5	3.5	(2)	3.5	—	—	4MK	9	CHERCHELL. AL	ISC,MDD,MEZ,BCS
1966	AUG	21	9	12	57	37.60N	2.50W		3.6	(2)	3.6	4.4	—	—	3	ORIA. SP	MDD
1966	AUG	26	5	56	22	38.00N	8.70W	35	4.5	(2)	4.7	—	—	—	—	RIO SADO. PO	PAY
1966	AUG	27	21	4	29	35.20N	4.40W	33	3.0	(2)	2.9	3.4	—	—	3	TOR.ALCATA. MO	MDD
1966	SEP	1	2	38	34	37.50N	1.80W		3.5	(2)	3.5	4.0	—	—	4	ALMENDRICAS. SP	MDD
1966	SEP	19	20	19	50	35.20N	3.80W	10	3.1	(2)	3.0	4.3	—	—	4	TAFEREIT. MO	MDD,RBA,MEZ
1966	SEP	21	14	50	5	35.20N	3.80W	5	3.1	(2)	3.1	4.3	—	—	5	A TAFEREIT. MO	MDD,RBA,MEZ
1966	SEP	23	2	50	24	37.60N	2.80W		3.3	(2)	3.3	3.8	—	—	5	ZUIAR. SP	MDD
1966	SEP	24	11	51	52	35.20N	3.80W	5	3.4	(2)	3.4	4.6	—	—	3	TAFEREIT. MO	MDD,RBA,MEZ
1966	SEP	28	7	32	17	37.00N	4.90W		3.3	(2)	3.3	4.1	—	—	4	TEBA. SP	MDD,MEZ
1966	SEP	28	11	0	12	35.74N	4.44W	5	3.5	(2)	3.5	—	—	—	5	ALBORAN	MEZ,MDD,RBA
1966	SEP	29	13	4	47	37.40N	2.60W		3.2	(2)	3.2	3.7	—	—	3	ORIA. SP	MDD,RBA
1966	OCT	5	13	26	18	35.52N	9.26W	5	3.4	(2)	3.4	—	—	—	4	ATLANTIC	MEZ,MDD,RBA
1966	OCT	22	9	4	14	35.60N	3.30W		3.1	(2)	3.1	—	—	—	3	ALBORAN	MDD
1966	NOV	22	12	39	38	37.00N	3.90W		3.3	(2)	3.3	—	—	—	3	ARENAS REY. SP	MDD
1966	NOV	26	21	22	0	35.70N	4.20W		3.4	(2)	3.4	3.9	—	3MK	4	ALBORAN	MEZ,MDD
1966	NOV	30	16	42	33	38.22N	0.39E		3.9	(2)	4.0	4.5	—	—	12	MEDITERRANEAN	ISC,MDD,BCS
1966	DEC	18	10	46	25	35.95N	7.30W	40	4.4	(2)	4.6	4.8	—	—	16	W.GIBRALTAR	ISC,MDD,MEZ,BCS
1966	DEC	22	9	28	6	36.70N	2.95W		3.1	(2)	3.1	—	—	—	3	SE.ADRA. SP	MDD
1967	JAN	17	1	58	34	36.48N	7.66W	5	3.1	(2)	3.0	4.1	—	—	5	GULF CADIZ	MEZ,SPG,MDD
1967	JAN	26	16	11	43	34.59N	10.45E	24	4.8	(2)	5.0	4.2	—	7MK	37	SFAX. TU	ISC,CGS,MEZ,BCS
1967	JAN	30	13	58	8	35.11N	3.20W	20	3.0	(2)	2.9	3.9	—	—	6	TIZTOUTINE. MO	ISC,SPG,MDD,MEZ
1967	MAR	5	7	45	23	37.75N	1.00W		3.2	(2)	3.2	4.0	—	—	5	PACHECO. SP	MDD
1967	MAR	11	4	13	6	35.42N	8.70W	58	3.7	(2)	3.7	4.6	—	—	9	ATLANTIC	ISC,MDD,MEZ
1967	MAR	17	6	13	49	35.21N	5.63W	44	3.7	(2)	3.7	4.2	—	—	9	HUMAR. MO	ISC,SPG,MDD,CGS,BCS
1967	APR	5	8	31	10	35.50N	4.90E		4.2	(2)	4.3	—	—	6MK	22	SE.M'SILA. AL	ISC,MEZ,BCS,HHB
1967	APR	10	9	30	28	37.05N	1.50W		3.3	(2)	3.3	3.9	—	—	3	MEDITERRANEAN	MDD
1967	APR	14	23	44	32	36.50N	7.80E		4.2	(2)	4.3	—	—	—	—	S.ANNABA. AL	MEZ,HHB
1967	APR	23	9	30	21	36.21N	2.47E	28	4.6		4.8	5.0	—	6MK	120	MILIANA. AL	ISC,MDD,CGS,MEZ,BCS
1967	APR	27	1	54	24	35.70N	0.20W		4.5	(2)	4.7	—	—	5MK	—	GULF ARZEW. AL	MEZ
1967	MAY	5	18	57	53	36.76N	9.62W	31	3.2	(2)	3.2	4.2	—	—	5	ATLANTIC	MEZ,MDD,SPG
1967	MAY	14	6	10	18	36.85N	1.76W	5	3.1	(2)	3.0	4.2	—	—	7	MEDITERRANEAN	MEZ,BCS,MDD
1967	MAY	17	1	51	9	36.30N	3.14W	5	3.0	(2)	2.9	—	—	—	4	ALBORAN	MEZ,MDD
1967	MAY	17	20	14	8	37.50N	4.40W		3.5	(2)	3.5	4.5	—	—	10	ARJONA. SP	ISC,MDD,BCS
1967	MAY	27	1	54	23	35.71N	0.26W	2	4.5		4.6	4.7	—	5MK	70	GULF ARZEW. AL	ISC,MDD,CGS,MEZ,BCS
1967	MAY	27	12	42	57	37.55N	4.00W		3.1	(2)	3.1	4.1	—	—	4	ALCAUDETTE. SP	MDD
1967	JUN	18	21	51	45	36.83N	3.55W	5	3.1	(2)	3.1	3.9	—	—	4	F VEL. BENAUDALLA. SP	MEZ,MDD
1967	JUL	1	10	35	37	36.50N	3.50W		3.2	(2)	3.2	3.8	—	—	5	ALBORAN	BCS,SPG,MDD
1967	JUL	2	14	33	37	36.70N	3.80W	5	3.2	(2)	3.2	—	—	—	7	PADUL. SP	ISC,MDD,MEZ
1967	JUL	13	2	10	22	35.49N	0.14W	23	4.7		4.9	5.2	—	7MK	159	SIG. AL	ISC,MDD,CGS,MEZ,BCS
1966	SEP	29	13	4	47	37.40N	2.60W		3.2	(2)	3.2	3.7	—	—	3	ORIA. SP	MDD,RBA
1966	OCT	5	13	26	18	35.52N	9.26W	5	3.4	(2)	3.4	—	—	—	4	ATLANTIC	MEZ,MDD,RBA
1966	OCT	22	9	4	14	35.60N	3.30W		3.1	(2)	3.1	—	—	—	3	ALBORAN	MDD
1966	NOV	22	12	39	38	37.00N	3.90W		3.3	(2)	3.3	—	—	—	3	ARENAS REY. SP	MDD

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1966	NOV	26	21	22	0	35.70N	4.20W		3.4 (2)	3.4	3.9	—	3MK	4		ALBORAN	MEZ,MDD
1966	NOV	30	16	42	33	38.22N	0.39E		3.9 (2)	4.0	4.5	—	—	12		MEDITERRANEAN	ISC,MDD,BCS
1966	DEC	18	10	46	25	35.95N	7.30W	40	4.4 (2)	4.6	4.8	—	—	16		W.GIBRALTAR	ISC,MDD,MEZ,BCS
1966	DEC	22	9	28	6	36.70N	2.95W		3.1 (2)	3.1	—	—	—	3		SE.ADRA. SP	MDD
1967	JAN	17	1	58	34	36.48N	7.66W	5	3.1 (2)	3.0	4.1	—	—	5		GULF CADIZ	MEZ,SPG,MDD
1967	JAN	26	16	11	43	34.59N	10.45E	24	4.8 (2)	5.0	4.2	—	7MK	37		SFAX. TU	ISC,CGS,MEZ,BCS
1967	JAN	30	13	58	8	35.11N	3.20W	20	3.0 (2)	2.9	3.9	—	—	6		TIZTOUTINE. MO	ISC,SPG,MDD,MEZ
1967	MAR	5	7	45	23	37.75N	1.00W		3.2 (2)	3.2	4.0	—	—	5		PACHECO. SP	MDD
1967	MAR	11	4	13	6	35.42N	8.70W	58	3.7 (2)	3.7	4.6	—	—	9		ATLANTIC	ISC,MDD,MEZ
1967	MAR	17	6	13	49	35.21N	5.63W	44	3.7 (2)	3.7	4.2	—	—	9		HUMAR. MO	ISC,SPG,MDD,CGS,BCS
1967	APR	5	8	31	10	35.50N	4.90E		4.2 (2)	4.3	—	—	6MK	22		SE.M'SILA. AL	ISC,MEZ,BCS,HHB
1967	APR	10	9	30	28	37.05N	1.50W		3.3 (2)	3.3	3.9	—	—	3		MEDITERRANEAN	MDD
1967	APR	14	23	44	32	36.50N	7.80E		4.2 (2)	4.3	—	—	—	—		SANNABA. AL	MEZ,HHB
1967	APR	23	9	30	21	36.21N	2.47E	28	4.6	4.8	5.0	—	6MK	120		MILIANA. AL	ISC,MDD,CGS,MEZ,BCS
1967	APR	27	1	54	24	35.70N	0.20W		4.5 (2)	4.7	—	—	5MK	—		GULF ARZEW. AL	MEZ
1967	MAY	5	18	57	53	36.76N	9.62W	31	3.2 (2)	3.2	4.2	—	—	5		ATLANTIC	MEZ,MDD,SPG
1967	MAY	14	6	10	18	36.85N	1.76W	5	3.1 (2)	3.0	4.2	—	—	7		MEDITERRANEAN	MEZ,BCS,MDD
1967	MAY	17	1	51	9	36.30N	3.14W	5	3.0 (2)	2.9	—	—	—	4		ALBORAN	MEZ,MDD
1967	MAY	17	20	14	8	37.50N	4.40W		3.5 (2)	3.5	4.5	—	—	10		ARJONA. SP	ISC,MDD,BCS
1967	MAY	27	1	54	23	35.71N	0.26W	2	4.5	4.6	4.7	—	5MK	70		GULF ARZEW. AL	ISC,MDD,CGS,MEZ,BCS
1967	MAY	27	12	42	57	37.55N	4.00W		3.1 (2)	3.1	4.1	—	—	4		ALCAUDETE. SP	MDD
1967	JUN	18	21	51	45	36.83N	3.55W	5	3.1 (2)	3.1	3.9	—	—	4	F	VEL. BENAUDALLA. SP	MEZ,MDD
1967	JUL	1	10	35	37	36.50N	3.50W		3.2 (2)	3.2	3.8	—	—	5		ALBORAN	BCS,SPG,MDD
1967	JUL	2	14	33	37	36.70N	3.80W	5	3.2 (2)	3.2	—	—	—	7		PADUL. SP	ISC,MDD,MEZ
1967	JUL	13	2	10	22	35.49N	0.14W	23	4.7	4.9	5.2	—	7MK	159		SIG. AL	ISC,MDD,CGS,MEZ,BCS
1967	JUL	21	3	31	6	37.10N	3.90W	5	3.9 (2)	4.0	4.5	—	—	11		GRANADA. SP	ISC,MDD,MEZ,BCS
1967	JUL	23	8	42	3	36.60N	3.65W		3.4 (2)	3.4	4.1	—	—	3		ALBORAN	MEZ,MDD
1967	JUL	24	16	36	57	35.40N	0.75W	5	3.2 (2)	3.2	4.5	—	—	5		HAM.BOUHADJAR. AL	MDD,MEZ,SPG,HHB
1967	JUL	25	2	24	18	37.44N	3.64W	10	4.6 (2)	4.8	4.7	—	—	13		GRANADA. SP	ISC,MDD,BCS
1967	JUL	27	3	52	46	36.63N	5.50W	5	3.6 (2)	3.6	4.4	—	—	6		UBRIQUE. SP	MEZ,MDD,SPG
1967	JUL	29	21	54	26	38.00N	1.30W		4.4 (2)	4.6	4.7	—	—	12		CIEZA. SP	ISC,MDD,BCS
1967	AUG	15	14	36	58	36.30N	9.61W	5	3.4 (2)	3.4	4.2	—	—	4		W.GIBRALTAR	MEZ,LIS,MDD
1967	AUG	28	21	15	35	31.49N	6.06W	33	4.4	4.7	4.7	—	5MK	83		DI.AZOURKA. MO	ISC,SPG,CGS,BCS
1967	AUG	30	18	21	44	31.41N	5.83W	23	4.0 (2)	4.1	—	—	—	16		AIT ARBI. MO	ISC,CGS,SPG
1967	SEP	11	7	0	29	36.42N	2.85E	33	4.1 (1)	4.6	4.6	—	7MK	72		BLIDA. AL	ISC,MDD,CGS,BCS,MEZ
1967	SEP	21	21	55	40	36.85N	4.25W		3.1 (2)	3.1	—	—	2MK	3		E.MALAGA. SP	MEZ,MDD
1967	SEP	22	14	32	44	36.86N	3.13W	5	3.6 (2)	3.6	4.3	—	—	6		MURTAS. SP	MEZ,MDD
1967	SEP	24	17	8	41	32.44N	5.84W	33	4.3 (2)	4.4	4.4	—	5MK	17		KOUMCH. MO	ISC,SPG,CGS,BCS
1967	OCT	6	22	1	45	35.04N	4.17W	5	4.2 (2)	4.3	4.4	—	5MK	14		TABERNANT. MO	ISC,MDD,MEZ
1967	NOV	1	19	47	40	35.50N	3.60W	12	3.0 (2)	2.9	—	—	—	6		ALBORAN	ISC,MDD,SPG,MEZ
1967	NOV	7	14	34	0	34.71N	3.10W	23	3.1 (2)	3.0	4.1	—	—	5		MLY BACHA. MO	MEZ,MDD,SPG
1967	NOV	14	2	53	40	35.41N	3.56W	5	3.1 (2)	3.1	4.0	—	—	5		SI DRISS. MO	MEZ,SPG,MDD
1967	NOV	14	7	20	22	35.42N	3.80W	20	3.9 (2)	4.0	4.3	—	3MK	4		BAHIA ALHUCEM. MO	MEZ,MDD,SPG
1967	NOV	16	21	5	30	35.44N	3.68W	13	4.2 (2)	4.3	4.5	—	—	10		ALBORAN	ISC,MDD,MEZ
1967	NOV	17	3	33	40	36.80N	5.45W		3.1 (2)	3.0	—	—	—	5		GRAZALEMA. SP	MDD,SPG
1967	NOV	17	3	35	58	36.73N	4.41W	18	3.2 (2)	3.2	—	—	—	4		MALAGA. SP	MEZ,SPG
1967	DEC	29	23	48	50	36.54N	2.43W	5	3.1 (2)	3.1	3.9	—	—	5		ALBORAN	MEZ,MDD
1968	JAN	4	6	42	11	37.68N	2.40W		4.2 (2)	4.3	5.0	—	—	13		HUESCAR. SP	ISC,MDD,BCS

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1968	JAN	22	7	19	6	35.08N	5.66W	36	4.3	(2)	4.4	—	—	5MK	40	N.OUEZZANE. MO	ISC,CGS,MDD,SPG,MEZ	
1968	JAN	22	15	43	4	36.36N	6.80W	134	3.5	(2)	3.5	4.9	—	—	10	GULF CADIZ	ISC,BCS,MDD,SPG,MEZ	
1968	JAN	27	18	28	57	35.00N	5.00E	17	4.1	(2)	4.2	4.1	—	6MK	29	RAS EL OUED. AL	ISC,MEZ,CGS,BCS,HHB	
1968	FEB	5	5	40	29	36.00N	5.00W		3.4	(2)	3.4	4.5	—	—	5	GIBRALTAR	MDD,MEZ	
1968	FEB	5	5	40	29	36.00N	5.00W		3.4	(2)	3.4	4.5	—	—	5	GIBRALTAR	MDD,MEZ	
1968	FEB	6	11	52	16	37.80N	4.70W		4.0	(2)	4.1	4.3	—	—	4	ESPEJO. SP	MDD,SPG	
1968	FEB	10	21	54	32	35.50N	0.10W	5	3.1	(2)	3.1	4.2	—	5MK	5	SIG. AL	BCS,MDD,MEZ,HHB	
1968	FEB	13	18	57	33	36.46N	4.50W	87	4.0	(2)	4.1	—	—	3MK	23	ALBORAN	ISC,CGS,MDD,BCS,MEZ	
1968	FEB	16	2	50	45	35.10N	4.16W	20	3.6	(2)	3.6	3.9	—	—	5	DOUAR HASSAR. MO	MEZ,MDD,SPG	
1968	FEB	17	6	17	45	35.90N	3.40W	9	3.3	(2)	3.3	—	—	—	6	ALBORAN	MDD	
1968	FEB	25	5	44	0	38.00N	8.60W		3.6	(2)	3.6	3.8	—	—	5	ABELA. PO	LIS,MDD	
1968	FEB	25	15	40	44	36.55N	5.31E	20	4.5		4.8	5.9	—	7MK	110	Z.MANSOURIA. AL	ISC,CGS,MEZ,BCS	
1968	FEB	27	14	42	25	35.85N	3.30W		3.0	(2)	2.9	—	—	—	5	ALBORAN	MDD	
1968	FEB	28	2	17	3	35.90N	3.70W		3.0	(2)	2.9	—	—	—	5	A	ALBORAN	MDD
1968	MAR	13	16	45	11	36.80N	5.20W		3.1	(2)	3.0	—	—	—	4	RONDA. SP	MDD	
1968	MAR	31	21	25	5	35.20N	1.60W	10	3.4	(2)	3.4	—	—	3MK	7	W.NEMOURS. AL	ISC,MEZ,SPG,MDD	
1968	APR	3	5	27	34	35.20N	4.70W	33	3.7	(2)	3.7	—	—	—	7	W.TOR.ALCATA. MO	ISC,MDD,MEZ,SPG	
1968	APR	17	9	12	4	35.24N	3.73W	13	4.8		5.0	—	—	6MK	159	TAFEREIT. MO	ISC,SPG,BCS,CGS,MEZ	
1968	APR	17	9	43	37	35.24N	3.80W	33	3.9	(2)	4.0	—	—	5MK	7	BOUDINAR. MO	ISC,SPG,MDD,MEZ	
1968	APR	17	10	18	15	35.20N	3.60W		3.4	(2)	3.4	—	—	4MK	5	A	BOUDINAR. MO	SPG,MDD
1968	APR	18	0	58	2	35.20N	3.60W		3.3	(2)	3.3	—	—	—	3	A	BOUDINAR. MO	SPG,MDD
1968	APR	18	5	9	29	36.90N	5.90W	20	3.1	(2)	3.1	—	—	—	12	E.JEREZ. SP	ISC,BCS,MDD,MEZ	
1968	APR	19	4	29	39	35.20N	3.60W		3.1	(2)	3.1	—	—	—	3	A	BOUDINAR. MO	SPG,MDD
1968	APR	30	3	23	38	35.63N	4.51W	5	3.8	(2)	3.9	—	—	—	5	ALBORAN	MEZ,MDD,SPG	
1968	MAY	10	2	50	22	36.30N	3.70W	5	3.4	(2)	3.4	—	—	—	4	ALBORAN	MEZ,MDD,SPG	
1968	MAY	22	14	1	57	34.87N	4.34W	71	3.9	(2)	4.0	4.8	—	—	32	TARGUIST. MO	ISC,CGS,MDD,MEZ	
1968	MAY	28	22	19	2	37.00N	3.50W		3.1	(2)	3.1	—	—	—	4	SIER.NEVADA. SP	MDD	
1968	JUN	3	5	42	57	37.20N	1.80W		3.3	(2)	3.3	4.3	—	—	5	ALBORAN	MDD	
1968	JUN	12	22	30	9	36.50N	7.50W	8	4.2	(2)	4.3	4.6	—	4MK	23	GULF CADIZ	ISC,MDD,BCS,MEZ	
1968	JUN	15	21	37	39	35.20N	4.80W	5	3.4	(2)	3.4	4.2	—	5MK	7	ALBORAN	ISC,MEZ,SPG,MDD,BCS	
1968	JUL	4	21	59	25	35.60N	3.90W	10	3.4	(2)	3.4	4.2	—	—	8	ALBORAN	ISC,MDD,SPG,MEZ	
1968	JUL	5	2	27	56	35.60N	3.80W		3.5	(2)	3.5	—	—	—	5	A	ALBORAN	MDD,SPG
1968	JUL	29	18	10	41	35.20N	2.20W	26	3.9	(2)	4.0	4.9	—	—	18	MEDITERRANEAN	ISC,SPG,CGS,MDD,MEZ	
1968	AUG	5	2	34	32	35.05N	4.00W		3.1	(2)	3.1	—	—	—	3	A	EL-HAD TIZAR. MO	MDD,SPG
1968	AUG	10	1	0	25	34.82N	3.85W	20	3.8	(2)	3.9	4.4	—	—	10	AKNOUL. MO	ISC,MDD,MEZ	
1968	AUG	31	13	48	11	36.28N	6.53W	56	4.0	(2)	4.1	5.3	—	3MK	23	GIBRALTAR	ISC,MEZ,CGS,MDD,BCS	
1968	SEP	2	12	38	22	34.98N	2.93W	5	3.9	(2)	4.0	4.6	—	—	18	ZAIO. MO	ISC,MDD,MEZ	
1968	SEP	2	14	37	56	35.00N	2.78W		3.9	(2)	4.0	—	—	—	5	E.ZELUAN. MO	MEZ,SPG,MDD	
1968	SEP	5	13	22	41	35.05N	2.90W	15	3.5	(2)	3.5	4.4	—	6MK	7	ZAIO. MO	ISC,MDD,SPG,MEZ	
1968	SEP	11	23	2	9	37.24N	8.40W		3.8	(2)	3.9	4.5	—	5MK	11	OUIRIQUE. PO	ISC,MDD,BCS	
1968	SEP	13	3	5	33	35.00N	2.80W	15	3.1	(2)	3.1	4.0	—	6MK	7	E.ZELUAN. MO	SPG,MDD	
1968	SEP	15	1	33	8	36.85N	2.10W	60	3.3	(2)	3.3	4.2	—	—	4	SW.AGUA AMARGA. SP	MEZ,MDD	
1968	SEP	22	3	5	2	37.55N	1.75W		3.8	(2)	3.9	—	—	—	4	MURCIA. SP	MDD	
1968	OCT	5	2	45	16	37.77N	9.44W	33	3.4	(2)	3.4	3.6	—	—	9	ATLANTIC	ISC,MDD,SPG	
1968	OCT	7	5	21	39	37.50N	1.05W		3.2	(2)	3.2	—	—	—	5	COSTA MURCIA. SP	MDD	
1968	OCT	14	2	27	37	37.17N	3.62W		3.1	(2)	3.1	4.0	—	—	5	ALBORAN	ISC,SPG,MDD	
1968	OCT	18	23	5	35	35.90N	2.69W	5	3.0	(2)	2.9	—	—	—	4	ALBORAN	MEZ,MDD,SPG	
1968	OCT	19	21	59	49	36.90N	2.55W		3.1	(2)	3.0	—	—	—	3	F	ALMERIA. SP	MDD,SPG

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	Mi	ITSC	NS	RMK	SITE	REFERENCES	
1968	OCT	21	18	15	38	36.85N	2.66W	5	3.4	(2)	3.4	—	—	—	6	BENTARIQUE. SP	MEZ,SPG	
1968	OCT	23	1	42	38	36.10N	5.10W	21	3.3	(1)	—	2.7	—	—	3	STRT. GIBALTAR	MEZ,SPG	
1968	OCT	23	16	15	0	36.90N	2.55W		3.2	(2)	3.2	—	—	—	2	ALMERIA. SP	MDD	
1968	OCT	24	6	58	24	36.60N	3.53W	5	3.2	(2)	3.2	—	—	—	4	ALBORAN	MEZ,MDD	
1968	OCT	30	11	41	57	35.19N	3.76W	34	4.2		4.6	4.8	—	4MK	77	BOUDINAR. MO	ISC,MOS,MEZ,CGS,MDD	
1968	NOV	1	8	50	5	34.90N	2.40W	5	3.4	(2)	3.4	—	—	—	6	S.BERKANE. MO	ISC,MDD,SPG,MEZ	
1968	NOV	7	2	8	46	35.96N	4.83W	83	3.7	(2)	3.8	4.3	—	—	15	ALBORAN	ISC,MDD,SPG,MEZ	
1968	NOV	7	5	57	42	36.60N	3.00E		3.2	(2)	3.2	—	—	4MK	5	BIRTOUTA. AL	ISC,BCS	
1968	NOV	10	9	12	23	37.50N	2.35W		3.4	(2)	3.4	4.3	—	—	5	ALMERIA. SP	MDD	
1968	NOV	19	8	56	6	37.30N	3.80W		3.4	(2)	3.4	3.8	—	—	3	GRANADA. SP	MDD	
1969	JAN	26	14	26	18	35.60N	5.88E	38	4.0	(1)	4.6	—	—	—	51	AIN TOUTA. AL	ISC,BCS,CGS	
1969	FEB	10	19	30	7	34.20N	6.65W	60	3.1	(2)	3.1	—	—	—	4	PORT-LYAUTEY. MO	MEZ,MDD,SPG	
1969	FEB	20	4	54	32	35.10N	3.80W	20	3.1	(2)	3.1	3.6	—	—	4	BOU SLAMA. MO	MEZ,MDD,SPG	
1969	FEB	22	8	9	36	35.20N	4.00W	10	3.0	(2)	2.9	3.6	—	—	5	INSOULIENE. MO	MEZ,MDD,SPG	
1969	FEB	22	8	14	11	35.20N	4.00W	20	3.2	(2)	3.2	3.6	—	—	5	A	INSOULIENE. MO	MEZ,MDD,SPG
1969	FEB	28	10	24	15	36.30N	9.80W	42	3.7	(2)	3.8	4.0	—	—	8	W.GIBALTAR	ISC,MDD,SPG	
1969	FEB	28	12	43	16	36.20N	9.90W	23	3.8	(2)	3.9	4.0	—	—	12	A	W.GIBALTAR	ISC,CGS,MDD
1969	FEB	28	20	22	14	35.90N	10.00W	25	3.3	(2)	3.3	4.0	—	—	6	A	W.GIBALTAR	ISC,MDD
1969	MAR	1	12	31	52	36.08N	8.44W	25	3.7	(2)	3.8	4.3	—	—	13	W.GIBALTAR	ISC,MDD	
1969	MAR	1	22	3	36	36.50N	10.00W	33	4.0	(2)	4.1	—	—	—	3	W.GIBALTAR	SPG	
1969	MAR	2	16	28	57	36.00N	10.00W	33	3.3	(2)	3.3	—	—	—	5	A	W.GIBALTAR	SPG
1969	MAR	3	8	7	21	35.12N	4.70W	10	3.3	(2)	3.3	4.0	—	—	7	TOR ALCATA. MO	ISC,MDD,MEZ,SPG	
1969	MAR	6	21	24	1	36.38N	1.50W	20	3.2	(2)	3.2	—	—	—	4	MEDITERRANEAN	MEZ,MDD	
1969	MAR	13	15	18	59	35.89N	10.36W	25	3.7	(2)	3.7	3.9	—	—	6	A	W.GIBALTAR	ISC,MDD,SPG
1969	APR	5	19	56	24	35.49N	0.04W	5	3.3	(2)	3.3	4.5	—	6MK	8	MASCARA. AL	ISC,ALM,MDD,MEZ,HHB	
1969	APR	8	7	31	26	35.50N	4.40W	10	3.3	(2)	3.3	4.0	—	—	7	ALBORAN	ISC,MDD,MEZ	
1969	APR	12	0	2	7	32.10N	6.20W	10	4.3	(2)	4.4	3.0	—	4MK	7	A	TILLOUGUIT. MO	ISC,SPG
1969	APR	17	2	31	4	35.25N	4.50W	10	4.1	(2)	4.2	—	—	—	10	ADJIR. MO	ISC,SPG,MDD,MEZ	
1969	APR	28	2	10	19	36.20N	9.70W	33	3.5	(2)	3.5	4.1	—	—	9	A	W.GIBALTAR	ISC,SPG,BCS
1969	JUN	2	12	54	10	37.10N	6.00W		3.7	(2)	3.7	—	—	—	10	F	LAS CABEZAS. SP	ISC,MEZ,MDD
1969	JUN	2	21	27	9	36.88N	5.70W	71	4.3	(2)	4.4	—	—	3MK	16	LAS CABEZAS. SP	ISC,MDD,MEZ,BCS	
1969	JUN	4	2	26	17	36.80N	5.70W	33	3.7	(2)	3.8	—	—	—	14	A	LAS CABEZAS. SP	ISC,BCS,CGS,MDD
1969	JUN	11	3	18	8	35.94N	8.00W	5	3.7	(2)	3.7	—	—	—	4	W.GIBALTAR	MEZ,MDD,SPG	
1969	JUN	14	12	6	5	35.75N	10.00W	33	3.1	(2)	3.1	—	—	—	5	A	W.GIBALTAR	SPG
1969	JUN	18	0	5	14	35.74N	3.21W	24	3.4	(2)	3.4	—	—	—	13	ALBORAN	ISC,BCS,MDD,SPG,MEZ	
1969	JUN	18	0	5	14	35.74N	3.21W	24	3.4	(2)	3.4	—	—	—	13	ALBORAN	ISC,BCS,MDD,SPG,MEZ	
1969	JUN	22	0	48	6	36.90N	3.50W		3.6	(2)	3.6	—	—	—	8	SIER.NEVADA. SP	MDD	
1969	JUL	5	5	22	1	37.20N	4.10W		3.1	(2)	3.1	—	—	—	9	MONTEFRIO. SP	ISC,MDD,BCS	
1969	JUL	5	22	18	41	37.05N	5.55W		3.1	(2)	3.0	—	—	—	3	F	MORORI. SP	MDD
1969	JUL	5	22	40	48	36.60N	5.25W		3.5	(2)	3.5	—	—	—	6	ESTEPONA. SP	ISC,MDD	
1969	JUL	6	11	31	31	36.90N	5.40W	5	3.9	(2)	4.0	—	—	3MK	14	W.RONDA. SP	ISC,MEZ,LIS,MDD,BCS	
1969	JUL	16	19	58	26	36.28N	6.00W	9	3.9	(2)	4.0	—	—	—	7	LOS BARRIOS. SP	ISC,MEZ,MDD,BCS	
1969	JUL	18	20	46	44	36.90N	5.90W		3.8	(2)	3.9	—	—	4MK	13	NW.ESPERA. SP	ISC,SPG	
1969	JUL	21	0	52	6	36.90N	2.80W	5	3.3	(2)	3.3	—	—	—	4	CANILES. SP	ISC,MEZ,MDD	
1969	AUG	8	7	22	35	35.00N	3.30W		4.0	(2)	4.1	—	—	—	6	BOUFARCOURT. MO	ISC,BCS	
1969	SEP	9	19	27	13	37.30N	3.55W		3.7	(2)	3.8	—	—	—	13	GRANADA. SP	MDD,LIS	
1969	SEP	9	21	6	50	37.00N	3.52W	5	3.0	(2)	2.9	—	—	—	5	A	DURCAL. SP	MEZ,MDD
1969	OCT	10	7	12	48	34.70N	2.00W		3.7	(2)	3.7	—	—	—	6	OUIDA. MO	ISC,MDD	

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1969	OCT	14	15	18	43	36.95N	3.65W	5	4.2 (2)	4.3	—	—	4MK	11		GRANADA. SP	MEZ,MDD
1969	DEC	4	18	14	25	36.12N	8.40W	42	4.1 (2)	4.2	—	—	—	23		W.GIBRALTAR	ISC,CGS,MDD,MEZ,BCS
1969	DEC	16	17	38	18	36.27N	3.24W	40	3.5 (2)	3.5	—	—	—	5		ALBORAN	MEZ,MDD
1970	JAN	11	2	7	4	34.77N	4.68W	33	3.3 (2)	3.3	—	—	—	8		RATSUT. MO	ISC,MEZ
1970	JAN	11	15	42	10	36.50N	4.20W	33	3.1 (2)	3.0	—	—	—	6		ALBORAN	ISC,MEZ
1970	JAN	16	13	16	28	36.40N	5.40W	33	4.1 (2)	4.2	—	—	—	10		WESTEPONA. SP	ISC,MEZ
1970	JAN	28	22	54	32	35.10N	4.50W	33	3.0 (2)	2.9	4.1	—	—	6		TAGHZOUT. MO	ISC,MEZ
1970	FEB	5	20	43	21	36.20N	5.50W	33	3.3 (2)	3.3	—	—	—	6		E.ALGECIRAS. SP	ISC,MEZ
1970	MAR	3	5	27	31	36.40N	5.20W	15	3.7 (2)	3.7	—	—	—	8		W.MARBELLA. SP	ISC,MEZ
1970	MAR	3	5	53	31	36.00N	5.00W	15	3.2 (2)	3.2	—	—	—	7	A	GIBRALTAR	ISC,MEZ
1970	MAR	3	6	7	24	36.34N	5.24W	5	3.7 (2)	3.7	—	—	—	6	A	ALGECIRAS. SP	MEZ,BCS
1970	MAR	4	9	48	4	36.60N	5.30W	40	3.8 (2)	3.9	—	—	—	13	F	W.RONDA. SP	ISC,MEZ
1970	MAR	4	21	25	28	36.80N	5.50W	33	4.2 (2)	4.3	—	—	—	14		E.JEREZ. SP	ISC,MEZ
1970	MAR	4	21	33	57	36.90N	5.50W	39	3.2 (2)	3.2	—	—	—	6	A	E.JEREZ. SP	ISC,MEZ
1970	MAR	4	21	41	1	37.06N	5.30W	93	3.7 (2)	3.7	—	—	—	6	A	W.RONDA. SP	ISC,MEZ
1970	MAR	4	21	44	39	36.59N	5.25W	33	3.1 (2)	3.0	—	—	—	6	A	W.RONDA. SP	ISC,MEZ
1970	MAR	4	21	57	59	36.80N	5.60W		3.3 (2)	3.3	—	—	—	13	A	E.JEREZ. SP	ISC,MEZ
1970	MAR	4	23	29	4	36.40N	5.20W	33	3.7 (2)	3.8	—	—	—	8	A	E.ESTEPONA. SP	ISC,MEZ
1970	MAR	16	13	4	52	35.80N	0.50E	33	3.2 (2)	3.2	—	—	—	5		N.RELIZANE. AL	ISC,MEZ
1970	MAR	21	4	33	29	36.53N	1.35E	33	3.1 (2)	3.1	—	—	—	9		TENES. AL	ISC
1970	MAR	22	10	3	22	34.25N	3.66W	14	3.5 (1)	—	4.5	—	4MK	30		MSOUN. MO	ISC
1970	MAR	31	5	49	11	35.70N	9.70W	33	3.4 (2)	3.4	—	—	—	7		W.GIBRALTAR	MDD,MEZ
1970	APR	7	5	29	31	34.80N	4.00W	150	3.2 (2)	3.2	4.2	—	5MK	9		ADJIR. MO	ISC,MEZ
1970	APR	7	9	16	14	34.87N	3.90W	27	4.5 (1)	4.9	4.8	—	7MK	61		ADJIR. MO	ISC,MEZ
1970	APR	14	7	21	16	36.43N	7.12W	10	3.9 (2)	4.0	—	—	—	3		GULF CADIZ	MEZ,SPG
1970	APR	25	4	7	9	36.15N	7.80W	57	3.0 (2)	2.9	—	—	—	8		W.GIBRALTAR	ISC,MEZ
1970	MAY	21	4	58	24	37.80N	8.30W	33	3.3 (2)	3.3	4.0	—	4MK	8		ALJUSTREL. PO	MDD
1970	JUN	21	19	59	40	36.99N	8.80W		3.8 (2)	3.9	—	—	—	11		S.C.ST. VINCENT. PO	ISC
1970	JUN	28	13	40	14	35.80N	11.60E	37	4.5	—	—	—	—	54		MEDITERRANEAN	ISC
1970	JUL	9	0	41	46	35.12N	8.80W	33	3.7 (2)	3.7	—	—	—	5		ATLANTIC	ISC
1970	JUL	20	10	58	56	36.70N	2.50W	33	3.3 (2)	3.3	—	—	—	3		S.ALMERIA. SP	MDD
1970	JUL	31	23	44	14	36.50N	3.40W	33	3.0 (2)	2.9	—	—	—	6		ALBORAN	ISC,MEZ
1970	AUG	10	1	12	32	34.56N	3.10W	15	3.1 (2)	3.0	3.6	—	—	10		MLY BACHA. MO	ISC,MEZ
1970	AUG	28	10	35	14	35.98N	6.16W	33	3.5 (2)	3.5	—	—	—	4		STRT.GIBRALTAR	ISC,MEZ
1970	SEP	7	18	31	56	34.16N	4.90W	5	3.0 (1)	—	4.3	—	4MK	15		E.SEBAA ROUADI. MO	ISC,MEZ
1970	OCT	2	0	31	49	35.35N	6.40E	32	4.3 (2)	4.5	4.6	—	6MK	38		TIGHANIMINE. AL	ISC,MEZ,HHB
1970	OCT	4	3	50	46	36.41N	4.81W	49	3.7 (2)	3.8	—	—	3MK	11		E.MARBELLA. SP	ISC,MEZ
1970	OCT	5	10	26	27	34.53N	4.05W	20	3.9 (2)	4.0	—	—	5MK	11		NE.TAINESTE. MO	ISC,MEZ
1970	OCT	9	0	27	5	36.34N	2.34E	17	3.7 (2)	3.7	—	—	6MK	20		E.MILIANA. AL	ISC,MEZ
1970	OCT	12	19	44	18	34.75N	3.20W	33	3.2 (2)	3.2	4.2	—	—	8		NW.MOUL BACHA. MO	ISC,MEZ
1970	OCT	26	18	22	50	36.30N	9.90W		3.1 (2)	3.1	—	—	—	—	A	W.GIBRALTAR	PAY
1970	NOV	6	10	50	23	38.00N	4.30W	33	3.1 (2)	3.1	—	—	—	4		CORDOBA. SP	ISC
1970	NOV	6	16	52	21	35.40N	5.20W	33	3.0 (2)	2.9	—	—	—	5		ZAUEN. MO	ISC,MEZ
1970	NOV	29	22	12	51	36.45N	3.37W	5	3.0 (2)	2.9	—	—	—	4		ALBORAN	MEZ,MDD
1970	DEC	1	1	2	47	36.98N	9.80E	57	4.5	5.1	4.9	—	8MK	132		CHAQUAT. TU	ISC
1970	DEC	12	7	9	19	36.94N	9.98E	15	4.3 (2)	4.5	4.5	—	8MK	26		SIDI THABET. TU	ISC,MEZ
1970	DEC	14	16	49	6	35.60N	3.40W	33	3.2 (2)	3.2	—	—	—	6		ALBORAN	ISC,MEZ
1971	JAN	12	5	7	10	37.66N	0.44W	33	3.9 (2)	4.0	4.2	—	5MK	13		MURCIA. SP	ISC

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	Mi	ITSC	NS	RMK	SITE	REFERENCES
1971	FEB	4	21	38	52	36.14N	3.65W	33	3.2 (2)	3.2	—	—	—	5		ALBORAN	ISC,MEZ
1971	FEB	4	23	48	20	36.72N	3.29W	10	3.0 (2)	2.9	—	—	—	4		E.CASTELL FERRO. SP	MEZ,MDD
1971	FEB	7	0	43	36	36.85N	3.73W	33	3.2 (2)	3.2	—	—	3MK	5		E.ALHAMA. SP	ISC,MEZ
1971	FEB	23	7	15	42	36.05N	1.62E		3.1 (2)	3.0	4.9	—	4MK	8		KARIMIA. AL	ISC,HHB
1971	MAR	10	21	47	11	35.89N	3.38W	3	3.2 (2)	3.2	—	—	—	6		ALBORAN	ISC,MEZ
1971	MAR	14	20	47	38	35.23N	5.93W	44	3.4 (2)	3.4	4.1	—	—	25		NE.ET.TLETA. MO	ISC,MEZ
1971	APR	3	2	31	18	37.97N	0.37W	33	3.1 (2)	3.0	—	—	—	6		ALICANTE. SP	ISC
1971	MAY	1	10	37	59	36.86N	3.82W	40	4.3 (2)	4.4	4.2	—	3MK	24		E.COMPETA. SP	ISC,MEZ
1971	MAY	1	10	42	58	36.82N	3.84W	33	3.2 (2)	3.2	—	—	—	4	A	E.COMPETA. SP	ISC,MEZ
1971	MAY	14	3	9	54	36.50N	3.80W		3.0 (2)	2.9	—	—	—	3		ALBORAN	MEZ,MDD
1971	MAY	17	22	2	23	36.84N	5.07W	33	3.5 (2)	3.5	—	—	—	7		N.ARRIATE. SP	ISC,MEZ
1971	MAY	19	12	49	57	37.04N	3.88W	33	3.1 (2)	3.1	—	—	—	4		GRANADA. SP	ISC
1971	MAY	29	7	23	40	37.20N	3.86W	33	3.1 (2)	3.0	—	—	—	5		JAEN. SP	ISC
1971	MAY	29	7	23	40	37.20N	3.86W	33	3.1 (2)	3.0	—	—	—	5		JAEN. SP	ISC
1971	JUN	16	20	41	18	36.71N	3.03W	33	3.6 (2)	3.6	3.5	—	3MK	9		ADRA. SP	ISC,MEZ
1971	JUN	18	0	58	15	36.89N	3.84W	33	3.5 (2)	3.5	—	—	—	6		ALHAMA. SP	ISC
1971	JUN	18	21	13	36	37.78N	3.56W	50	4.2 (2)	4.3	—	—	—	12		JAEN. SP	ISC
1971	JUN	21	22	44	37	36.69N	3.81W	40	3.1 (2)	3.0	—	—	—	7		ALBORAN	ISC,MEZ
1971	JUN	27	16	27	0	35.80N	4.70W	33	3.1 (2)	3.0	—	—	—	3		ALBORAN	MDD
1971	JUL	2	21	11	11	34.11N	5.39W	44	4.3	4.4	—	—	5MK	57		MOULAY IDRIS. MO	ISC,MEZ
1971	JUL	12	23	25	48	36.60N	3.40W	33	3.0 (2)	2.9	—	—	—	3		ALBORAN	MDD
1971	JUL	18	16	16	36	37.35N	3.60W	88	3.4 (2)	3.4	3.6	—	—	11		CORDOBA. SP	ISC
1971	JUL	22	0	23	43	36.34N	4.72W	10	3.8 (2)	3.9	—	—	—	4		ALBORAN	MEZ,MDD
1971	JUL	30	11	46	13	36.46N	3.73W	33	3.4 (2)	3.4	—	—	—	4		N.AL MUNECAR. SP	ISC,MEZ
1971	AUG	4	1	15	32	36.46N	9.36W	5	3.1 (2)	3.1	—	—	—	7		ATLANTIC	MEZ
1971	AUG	6	12	8	27	36.15N	9.65W		4.0 (2)	4.1	—	—	—	12		ATLANTIC	ISC,MEZ
1971	AUG	6	16	21	55	36.30N	2.90W	33	3.2 (2)	3.2	—	—	—	2		ALBORAN	MDD
1971	AUG	11	3	55	37	37.21N	2.14W		3.4 (2)	3.4	—	—	—	8		NC.DE GATA. SP	ISC
1971	AUG	12	11	52	1	35.08N	5.65W	15	3.1 (2)	3.1	4.1	—	—	12		NE.MEXERAH. MO	ISC,MEZ
1971	AUG	17	3	13	37	36.20N	2.50W	33	3.0 (2)	2.9	3.8	—	—	3		ALBORAN	MDD
1971	AUG	31	18	43	3	36.94N	1.06W	33	3.1 (2)	3.0	2.7	—	—	5		MEDITERRANEAN	ISC
1971	SEP	24	5	33	14	34.94N	4.53W	33	3.8 (2)	3.9	3.4	—	—	4		KETAMA. MO	ISC,MEZ
1971	SEP	24	5	33	14	34.94N	4.53W	33	3.8 (2)	3.9	3.4	—	—	4		KETAMA. MO	ISC,MEZ
1971	OCT	4	8	30	11	36.22N	5.43W	60	3.5 (2)	3.5	—	—	—	10		ALGECIRAS. SP	ISC,MEZ
1971	OCT	16	6	44	29	36.14N	8.64W	33	3.3 (2)	3.3	—	—	—	8		W.GIBRALTAR	ISC,MEZ
1971	OCT	20	5	56	32	37.03N	4.25W		3.4 (2)	3.4	—	—	—	6		ANTEQUERA. SP	ISC,MEZ
1971	OCT	24	20	6	10	36.66N	9.33W	33	3.3 (2)	3.3	—	—	—	1	A	ATLANTIC	SPG
1971	NOV	1	3	44	37	34.93N	3.23W	15	3.1 (2)	3.1	3.6	—	5MK	5		NE.BEN THIB. MO	ISC,MEZ
1971	NOV	12	1	40	21	36.06N	1.08W	33	3.4 (2)	3.4	—	—	—	5		MEDITERRANEAN	ISC,MEZ
1971	NOV	19	1	22	47	36.85N	6.97W	10	3.4 (2)	3.4	—	—	—	7		GULF CADIZ	ISC,MEZ
1971	DEC	6	16	22	5	35.97N	5.56E	13	4.2 (2)	4.3	—	—	—	13		AIN AZEL. AL	ISC
1971	DEC	23	1	25	28	36.16N	9.24W	33	3.5 (2)	3.5	—	—	—	8		W.GIBRALTAR	ISC,MEZ
1972	JAN	2	22	3	11	36.20N	3.44W	5	3.2 (2)	3.2	—	—	—	5		ALBORAN	ISC,MEZ
1972	FEB	1	11	42	23	35.36N	4.57W	42	4.0 (2)	4.1	—	—	5MK	15		SI DRIS. MO	ISC,MEZ
1972	FEB	7	0	59	57	35.02N	3.32W	33	3.4 (2)	3.4	4.1	—	5MK	12		ANUAL. MO	ISC,MEZ
1972	FEB	27	12	14	6	34.83N	8.96W	56	4.5 (1)	4.7	4.4	—	3MK	95		ATLANTIC	ISC
1972	MAR	16	21	31	30	37.42N	2.31W	2	4.4 (2)	4.6	4.8	—	7MK	53		HUERCAL. SP	ISC
1972	MAR	16	21	38	11	37.28N	2.08W		3.6 (2)	3.6	—	—	—	7	A	S.CUEVAS. SP	ISC

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _g	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1972	MAR	18	5	59	33	36.90N	2.24W		3.6	(2)	3.6	—	—	—	4	ALMERIA. SP	ISC	
1972	APR	2	1	15	50	36.77N	5.38W	5	4.3	(2)	4.5	—	—	—	10	EJEREZ. SP	ISC,MEZ,PAY	
1972	APR	5	4	10	7	37.90N	0.40W	33	3.8	(2)	3.9	—	—	—	3	MEDITERRANEAN	MDD	
1972	APR	26	1	52	8	36.25N	5.38W	33	3.7	(2)	3.8	—	—	—	10	ALGECIRAS. SP	ISC,MEZ,PAY	
1972	APR	28	17	52	47	36.47N	3.00W	5	3.1	(2)	3.1	—	—	—	3	ALBORAN	MEZ,MDD	
1972	MAY	6	20	17	5	36.81N	6.37W	33	3.5	(2)	3.5	4.3	—	—	9	GULF CADIZ	ISC,MEZ	
1972	MAY	7	3	4	31	35.19N	6.24W	101	3.1	(2)	3.1	4.8	—	—	16	LARACHE. MO	ISC,MEZ	
1972	MAY	19	1	13	44	35.10N	9.15E	64	4.4		4.4	—	—	8MK	103	GARAA. TU	ISC,MEZ	
1972	JUN	9	17	14	5	36.43N	3.73W	5	3.6	(2)	3.6	—	—	—	3	ALBORAN	MEZ,MDD	
1972	JUN	10	17	40	48	35.53N	3.50W	33	3.2	(2)	3.2	4.4	—	—	8	ALBORAN	ISC,MEZ	
1972	JUN	12	22	38	4	35.78N	0.71W	33	3.9	(2)	4.0	—	—	6MK	13	MEDITERRANEAN	ISC,MEZ,HHB	
1972	JUN	14	21	58	13	36.68N	8.43W	60	4.2	(2)	4.3	5.2	—	4MK	32	W.GIBRALTAR	ISC,MEZ	
1972	JUN	29	8	59	30	37.09N	3.34W	33	3.0	(2)	2.9	—	—	—	4	JAEN. SP	ISC	
1972	JUL	2	3	11	23	36.12N	4.67W	95	3.7	(2)	3.7	4.0	—	—	16	ALBORAN	ISC,SPG	
1972	JUL	17	8	16	23	36.12N	1.23E	5	3.2	(2)	3.2	3.7	—	—	9	MOLIERE. AL	ISC,MEZ	
1972	JUL	20	2	49	54	34.51N	2.80W	10	3.8	(2)	3.9	4.3	—	—	13	SIDI MAROUF. MO	ISC,MEZ	
1972	AUG	4	19	4	26	35.99N	1.45W		3.6	(2)	3.6	—	—	—	6	MEDITERRANEAN	ISC,MEZ	
1972	AUG	5	8	56	7	36.79N	4.28W	53	4.1	(2)	4.2	—	—	—	8	PUNTA TORROX. SP	ISC,MEZ,PAY	
1972	AUG	14	14	6	33	35.06N	2.78W	60	4.6	(2)	4.8	4.4	—	5MK	20	ZAIOL. MO	ISC,MEZ	
1972	AUG	29	15	55	7	35.81N	1.31W	5	3.3	(2)	3.3	—	—	—	4	MEDITERRANEAN	MEZ,MDD	
1972	AUG	29	15	55	7	35.81N	1.31W	5	3.3	(2)	3.3	—	—	—	4	MEDITERRANEAN	MEZ,MDD	
1972	OCT	3	23	34	38	36.29N	5.07W	20	4.4	(2)	4.6	—	—	—	9	ALGECIRAS. SP	ISC,MEZ	
1972	OCT	4	21	0	9	31.92N	5.96W		3.6	(2)	3.6	—	—	5MK	5	AIT CHEKO. MO	ISC,MEZ	
1972	OCT	26	3	58	2	37.40N	1.65W	33	4.3	(2)	4.5	—	—	—	9	MURCIA. SP	ISC,PAY	
1972	NOV	2	7	45	19	35.14N	3.67W	4	3.3	(2)	3.3	3.6	—	—	13	MIDAR. MO	ISC,MEZ	
1972	NOV	15	4	18	7	32.68N	5.66W	2	3.5	(2)	3.5	3.6	—	4MK	10	KEBBAB. MO	ISC,MEZ	
1972	NOV	20	14	22	27	37.80N	1.51W	33	3.8	(2)	3.9	4.7	—	—	7	MURCIA. SP	ISC	
1972	NOV	22	20	45	31	36.02N	4.02W	18	4.3	(2)	4.4	4.4	—	2MK	17	ALBORAN	ISC,MEZ	
1972	NOV	26	12	56	38	36.14N	4.58W	5	3.4	(2)	3.4	3.4	—	—	5	ALBORAN	MEZ,MDD	
1972	DEC	6	23	41	8	36.91N	6.49W	33	3.2	(2)	3.2	4.4	—	—	4	GULF CADIZ	ISC,MEZ	
1972	DEC	17	17	14	20	35.08N	3.00W	34	3.5	(2)	3.5	—	—	—	5	S. BOU BEKER. MO	ISC,MEZ	
1972	DEC	17	19	6	55	34.79N	2.77W	33	3.7	(2)	3.7	5.0	—	—	15	ZIATA. MO	ISC,MEZ	
1972	DEC	21	4	31	15	35.99N	9.47W	33	3.8	(2)	3.9	5.7	—	4MK	16	ATLANTIC	ISC,MEZ	
1972	DEC	21	19	40	35	36.88N	3.42W	5	3.1	(2)	3.0	4.0	—	—	3	ORJIVA. SP	MEZ,MDD	
1972	DEC	23	8	10	2	32.09N	6.09W		3.0	(2)	2.9	—	—	—	5	EL-ARBA. MO	ISC,MEZ	
1972	DEC	31	0	59	54	36.48N	2.29W	40	3.1	(2)	3.1	—	—	—	3	ALBORAN	MEZ,MDD	
1973	JAN	30	2	36	11	36.98N	3.54W	637	4.2	(1)	3.9	—	—	—	52	LENTEJI. SP	ISC,MEZ	
1973	FEB	2	21	18	14	34.01N	5.48W	15	3.1	(2)	3.0	—	—	—	9	ES-SEBT. MO	ISC,MEZ	
1973	FEB	2	21	18	14	34.01N	5.48W	15	3.1	(2)	3.0	—	—	—	9	ES-SEBT. MO	ISC,MEZ	
1973	FEB	5	6	51	58	35.25N	4.91W	33	3.1	(2)	3.0	—	—	—	11	AZAGHAR. MO	ISC,MEZ	
1973	FEB	8	21	12	24	34.88N	4.19W	77	3.3	(2)	3.3	4.3	—	4MK	11	TARGUIST. MO	ISC,MEZ	
1973	FEB	16	1	36	39	32.16N	5.79W	33	3.1	(2)	3.1	—	—	—	10	TIFFERT. MO	ISC	
1973	FEB	19	11	8	49	34.76N	4.53W	48	3.6	(2)	3.6	4.4	—	5MK	13	ET-TENINE. MO	ISC,MEZ	
1973	FEB	19	11	13	43	34.88N	4.70W		3.1	(2)	3.1	3.7	—	—	8	A	KETAMA. MO	ISC,MEZ
1973	FEB	24	20	14	49	32.15N	6.07W		3.3	(2)	3.3	—	—	—	5	ANERGUL. MO	ISC	
1973	MAR	1	2	26	57	34.79N	4.25W	41	3.6	(2)	3.6	4.1	—	—	13	BENI AMMART. MO	ISC,MEZ	
1973	MAR	1	3	37	33	34.77N	4.26W		3.1	(2)	3.0	—	—	—	6	A	TARGUIST. MO	ISC
1973	MAR	3	15	9	56	32.08N	6.21W		3.5	(2)	3.5	—	—	5MK	8	TABAROUCHT. MO	ISC	

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	Ml	ITSC	NS	RMK	SITE	REFERENCES
1973	MAR	4	4	24	14	36.20N	7.61W	11	3.5 (1)	3.5	4.8	—	—	33		W.GIBRALTAR	ISC,MEZ
1973	MAR	5	6	25	48	35.04N	4.80W		3.2 (2)	3.2	—	—	—	8		BENI AMMART. MO	ISC
1973	MAR	5	6	52	35	32.16N	4.34W		3.3 (2)	3.3	—	—	—	6		AIT OTHMANE. MO	ISC
1973	MAR	7	14	59	10	32.07N	6.14W	15	3.3 (2)	3.3	—	—	4MK	8		TAOUJA. MO	ISC
1973	MAR	8	17	52	55	34.16N	5.71W	17	3.4 (2)	3.4	—	—	—	6		AIN TAOUJDATE. MO	ISC,MEZ
1973	MAR	10	19	57	18	37.17N	2.59W	33	3.1 (2)	3.1	4.0	—	—	4		N.ALMERIA. SP	ISC
1973	MAR	10	23	30	37	35.39N	5.44W	89	3.2 (2)	3.2	4.3	—	—	14		ASMATEN. MO	ISC,MEZ
1973	MAR	11	4	0	23	36.12N	7.53W	15	3.5 (2)	3.5	3.8	—	—	9		W.GIBRALTAR	ISC,MEZ
1973	MAR	11	4	25	31	37.02N	0.97E	60	3.4 (2)	3.4	4.4	—	—	30		MEDITERRANEAN	ISC,MEZ
1973	MAR	13	20	25	41	34.69N	4.47W		3.1 (2)	3.0	—	—	5MK	7		DJ.TAJERFAT. MO	ISC,MEZ
1973	MAR	21	2	28	46	38.00N	2.40W	60	3.8 (2)	3.9	—	—	—	—		S.SEGURA. SP	PAY
1973	MAR	26	17	21	44	34.68N	3.67W		3.5 (2)	3.5	—	—	5MK	10		ALHUCEMAS. MO	ISC,MEZ
1973	MAR	27	14	4	47	31.87N	4.97W	33	3.4 (2)	3.4	—	—	—	9		GOULMINA. MO	ISC,MEZ
1973	MAR	29	12	4	48	32.33N	5.71W	33	3.2 (2)	3.2	—	—	—	11		OUAOURIoud. MO	ISC,MEZ
1973	MAR	30	11	7	48	32.51N	4.23W	6	3.5 (2)	3.5	—	—	—	7		BOU REDINE. MO	ISC,MEZ
1973	APR	8	15	55	7	33.22N	5.78W		3.4 (2)	3.4	—	—	—	7		AGHALMOUSS. MO	MEZ,SPG
1973	APR	10	12	43	43	34.88N	2.81W	20	3.9 (2)	4.0	4.3	—	—	8		ZAIO. MO	ISC,MEZ
1973	APR	10	12	43	43	34.88N	2.81W	20	3.9 (2)	4.0	4.3	—	—	8		ZAIO. MO	ISC,MEZ
1973	APR	15	2	48	10	34.72N	2.57W	33	3.8 (2)	3.9	4.4	—	—	10		ZAIO. MO	ISC,MEZ
1973	APR	22	15	10	58	37.50N	2.20W	33	3.1 (2)	3.1	4.4	—	—	3		ALMERIA. SP	MDD
1973	APR	29	14	37	56	34.63N	4.17W	35	4.4	4.5	—	—	6MK	100		TAINESTE. MO	ISC
1973	APR	29	17	21	6	36.00N	10.00W	33	3.7 (2)	3.8	—	—	—	5	A	ATLANTIC	SPG
1973	APR	30	2	40	44	34.58N	4.07W		3.7 (2)	3.8	—	—	—	10		KELAA. MO	ISC,MEZ
1973	MAY	13	6	48	7	37.25N	2.22W	33	3.0 (2)	2.9	3.8	—	—	5		W.CUEVAS. SP	ISC
1973	MAY	19	20	49	2	32.45N	5.47W	13	3.7 (2)	3.8	—	—	—	8		BOU ATTAS. MO	ISC,MEZ
1973	MAY	21	3	19	24	37.40N	2.10W	33	3.1 (2)	3.1	4.0	—	—	4		CUEVAS. SP	MDD
1973	MAY	23	7	21	23	37.80N	0.70W	33	3.3 (2)	3.3	4.0	—	—	4		SANTA POLA. SP	MDD
1973	JUN	1	18	13	30	33.93N	6.84W	29	3.4 (2)	3.4	—	—	—	5		TEMARA. MO	MEZ
1973	JUN	3	0	45	57	35.55N	6.98W	26	3.1 (2)	3.1	—	—	—	—	F	ATLANTIC	MEZ
1973	JUN	6	4	48	15	37.20N	2.34W	33	3.3 (2)	3.3	3.8	—	—	5		ALMERIA. SP	ISC
1973	JUN	15	23	27	38	36.54N	7.58W	10	3.8 (2)	3.9	4.9	—	—	17		W.GIBRALTAR	ISC,MEZ
1973	JUN	17	18	58	31	36.19N	7.64W	10	3.7 (1)	3.8	4.9	—	—	22		W.GIBRALTAR	ISC,MEZ
1973	JUL	9	14	20	6	36.63N	6.27E		4.0 (2)	4.1	—	—	—	12		EL-MILIA. AL	ISC
1973	JUL	19	23	18	36	37.36N	8.99W	5	3.6 (2)	3.6	—	—	—	—		N.CABO S. VICENTE	MEZ
1973	JUL	24	8	57	15	33.04N	5.05W	5	3.7 (2)	3.7	—	—	5MK	9		ITZER. MO	MEZ
1973	JUL	28	1	13	58	34.69N	4.10W	27	3.3 (2)	3.3	—	—	6MK	—		TAINESTE. MO	MEZ
1973	AUG	14	12	54	48	36.49N	9.80W	30	4.0 (2)	4.1	—	—	—	12		ATLANTIC	MEZ,PAY
1973	AUG	24	8	4	34	34.31N	4.82W	33	3.2 (2)	3.2	—	—	—	6		KELAA LES. MO	ISC,MEZ
1973	AUG	24	10	50	53	35.91N	1.95W	5	4.0 (1)	4.3	5.0	—	—	48		MEDITERRANEAN	ISC,MEZ
1973	AUG	24	15	57	48	35.85N	0.04W	33	3.3 (2)	3.3	4.8	—	—	7		MENDEZ. AL	ISC,MEZ
1973	SEP	6	5	21	46	37.05N	2.39W	33	3.2 (2)	3.2	4.2	—	—	4		ALMERIA.SP	ISC
1973	SEP	27	0	7	5	37.50N	2.40W	33	3.1 (2)	3.1	4.3	—	—	3		GRANADA. SP	MDD
1973	NOV	23	21	20	3	36.95N	3.33W	5	3.1 (2)	3.1	3.9	—	—	7		TORVISCON. SP	ISC,MEZ
1973	NOV	24	14	5	46	36.16N	4.40E	15	5.0	4.9	—	—	—	214	F	MANSOURA. AL	ISC,MEZ,PAY
1973	NOV	24	15	22	6	36.06N	4.47E	8	5.1	4.9	5.1	—	7MK	204		MANSOURA. AL	ISC,MEZ,HHB
1973	NOV	25	4	20	21	36.14N	4.47E	19	4.4	4.7	—	—	—	615	A	E.MANSOURA. AL	ISC,MEZ
1973	NOV	25	15	33	11	36.10N	4.25E	36	3.9 (2)	4.0	—	—	—	27		MANSOURAH. AL	ISC
1973	NOV	27	9	5	23	36.43N	7.77W	33	3.7 (2)	3.7	4.5	—	—	13		GULF CADIZ	ISC,MEZ

Djillali Benouar

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	Mi	ITSC	NS	RMK	SITE	REFERENCES
1973	DEC	15	8	54	24	36.63N	5.00W	60	3.4	(2)	3.4	4.2	--	--	10	ISTAN. MO	ISC,MEZ
1973	DEC	17	10	43	22	36.10N	4.70W	33	3.1	(2)	3.1	4.0	--	--	4	ALBORAN	MEZ,MDD
1973	DEC	24	14	51	33	36.61N	9.76W	10	3.5	(2)	3.5	--	--	--	9	W.GIBRALTAR	MEZ
1973	DEC	25	0	44	47	36.29N	8.21W	5	4.1		4.3	--	--	4MK	51	W.GIBRALTAR	ISC,MEZ
1974	JAN	28	3	39	3	36.06N	4.43E	28	4.6		4.7	--	--	--	145	MANSOURA. AL	ISC,MEZ
1974	FEB	3	23	21	50	34.67N	5.29W	5	3.4	(2)	3.4	--	--	--	7	SIDI REDOUANE. MO	ISC,MEZ
1974	FEB	5	6	42	0	35.98N	4.46E	36	4.0	(1)	4.3	--	--	--	52	MELOUZA. AL	ISC,MEZ,PAY
1974	FEB	5	19	59	43	37.01N	3.68W	33	3.4	(2)	3.4	4.3	--	--	10	GRANADA. SP	ISC
1974	FEB	6	10	51	55	36.36N	4.54W	75	3.0	(2)	2.9	--	--	--	4	ALBORAN	MEZ,SPG
1974	FEB	7	5	57	41	36.82N	9.17W	6	3.3	(2)	3.3	4.7	--	--	14	S.C.ST. VICENTE	ISC,MEZ
1974	FEB	9	13	49	28	34.99N	4.69W	14	3.0	(2)	2.9	--	--	--	13	TACHZOUT. MO	ISC,MEZ
1974	FEB	21	23	51	29	35.18N	3.40W	33	3.3	(2)	3.3	4.6	--	--	15	TIZTOUTINE. MO	ISC,MEZ
1974	MAR	6	22	44	48	35.17N	2.88W	61	3.8	(2)	3.9	--	--	--	7	SOUK EL ARBA. MO	ISC,MEZ
1974	MAR	9	11	33	58	31.23N	8.27W		3.5	(2)	3.5	--	--	5MK	5	AMIZMIZ. MO	MEZ,BCS
1974	MAR	19	17	50	56	35.53N	7.36W		3.0	(2)	2.9	--	--	--	5	ATLANTIC	ISC,MEZ
1974	MAR	25	13	44	43	34.92N	4.51W	33	3.3	(2)	3.3	--	--	--	7	AGUERSIF. MO	ISC,MEZ
1974	MAR	28	3	23	20	34.93N	4.50W		3.1	(2)	3.1	--	--	--	7	A AGUERSIF. MO	ISC,MEZ
1974	APR	7	0	57	0	36.89N	4.10E	31	3.6	(1)	3.6	--	--	--	38	E.DELLYS. AL	ISC,MEZ
1974	APR	7	4	22	19	35.71N	3.58W	83	3.1	(2)	3.1	--	--	--	6	ALBORAN	ISC,MEZ
1974	APR	25	8	53	1	33.57N	8.17W	69	3.3	(2)	3.3	--	--	--	4	ATLANTIC	MEZ
1974	APR	25	11	49	41	37.90N	0.70W		3.4	(2)	3.4	--	--	--	--	TORREVIEJA. SP	PAY
1974	MAY	4	15	14	13	34.77N	4.99E	33	4.1	(2)	4.2	--	--	--	32	NW.TOLGA. AL	ISC,MEZ
1974	MAY	5	6	9	22	35.04N	4.53E	53	4.2	(2)	4.3	--	--	--	23	GETALIA. AL	ISC,MEZ
1974	MAY	5	22	56	31	36.60N	4.16W	5	3.1	(2)	3.0	4.3	--	--	9	TORRE DEL MAR. SP	ISC,MEZ
1974	MAY	29	14	30	47	37.90N	2.75W	33	3.1	(2)	3.0	4.4	--	--	7	JAEN. SP	ISC
1974	MAY	31	18	51	21	34.85N	9.43W	48	3.4	(2)	3.4	--	--	--	6	ATLANTIC	MEZ,SPG
1974	JUN	10	4	23	27	33.72N	3.91W	21	3.8	(1)	4.3	--	--	5MK	31	TINESMET. MO	ISC,MEZ
1974	JUN	12	17	39	58	36.57N	7.35W	33	3.3	(2)	3.3	--	--	--	9	GULF CADIZ	ISC,MEZ
1974	JUN	13	4	20	6	36.90N	4.03W	57	4.0	(1)	4.1	--	--	3MK	48	CANI. ACEITUNO. MO	ISC,MEZ,PAY
1974	JUN	14	2	40	57	35.72N	9.95W		3.1	(2)	3.1	--	--	--	6	F SW.C.ST. VICENTE	ISC,MEZ
1974	JUN	14	5	24	28	35.61N	9.79W		3.3	(2)	3.3	--	--	--	6	SW.C.ST. VICENTE	ISC,MEZ
1974	JUN	28	11	9	38	36.57N	5.26E	20	4.6		5.0	--	--	--	217	KHERRATA. AL	ISC,MEZ
1974	JUN	28	11	9	38	36.57N	5.26E	20	4.6		5.0	--	--	--	217	KHERRATA. AL	ISC,MEZ
1974	JUN	29	1	6	58	36.52N	5.21E	32	4.5		4.7	--	--	--	151	A OUED MARSА. AL	ISC,MEZ
1974	JUL	4	4	2	53	33.64N	5.58W		3.5	(2)	3.5	--	--	--	6	MEKNES. MO	ISC,MEZ
1974	JUL	12	1	32	55	36.64N	9.77W	5	3.5	(2)	3.5	--	--	--	12	ATLANTIC	MEZ
1974	JUL	13	15	57	22	35.97N	4.76E	9	4.6		4.8	--	--	--	170	BJ. BARRERIDJ. AL	ISC,MEZ,PAY
1974	JUL	14	2	55	23	35.60N	3.60W	7	4.2	(2)	4.3	--	--	--	40	ALBORAN	ISC,MEZ
1974	JUL	18	8	32	15	35.41N	3.44W	33	3.2	(2)	3.2	5.0	--	--	9	ALBORAN	ISC,MEZ
1974	AUG	3	5	11	29	36.82N	3.84W	5	3.7	(2)	3.8	--	--	--	7	COMPETA. SP	ISC,MEZ
1974	AUG	31	6	56	24	37.63N	8.21W	33	3.1	(2)	3.0	--	--	--	6	ALJUSTREL. MO	ISC
1974	SEP	16	21	23	31	37.28N	3.87W	33	4.3	(2)	4.5	--	--	--	7	NE. ALHAMA. SP	ISC
1974	SEP	18	18	31	34	36.70N	3.80W	33	3.8	(2)	3.9	--	--	--	3	E.ALHAMA. SP	MDD,PAY
1974	SEP	27	9	39	22	35.79N	4.82W	13	4.3	(2)	4.4	--	--	--	16	ALBORAN	ISC,MEZ
1974	SEP	29	6	35	23	36.83N	9.30W	35	3.0	(2)	2.9	--	--	--	9	SW.C.ST. VICENTE	ISC,MEZ
1974	SEP	29	23	34	57	35.05N	9.48E	33	4.0	(1)	4.5	--	--	5MK	47	MEN. BOUZAIAINE. TU	ISC,MEZ
1974	OCT	5	13	4	57	36.61N	0.09E	33	3.1	(2)	3.1	4.5	--	--	4	MEDITERRANEAN	ISC
1974	OCT	15	17	22	36	36.84N	9.91W	33	3.0	(2)	2.9	--	--	--	8	ATLANTIC	ISC

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1974	OCT	30	14	37	40	35.00N	3.14W	44	3.9 (2)	4.0	—	—	—	7		KOUNTI. MO	ISC,MEZ
1974	OCT	31	8	18	57	35.07N	3.18W	33	3.7 (2)	3.7	4.7	—	—	10	A	TAMSERACHI. MO	ISC,MEZ
1974	OCT	31	12	36	14	35.21N	3.19W	5	3.1 (2)	3.0	4.0	—	—	13	A	BERKANE. MO	ISC,MEZ
1974	OCT	31	14	33	28	36.74N	9.88W	5	3.1 (2)	3.0	—	—	—	11		SW.C.ST. VICENTE	ISC,MEZ
1974	NOV	2	6	6	17	36.13N	3.52W	79	3.1 (2)	3.1	—	—	—	6		TOUGOUNT. MO	ISC,MEZ
1974	NOV	3	17	18	55	33.31N	4.98W	3	3.2 (2)	3.2	—	—	—	6		W.ENJIL. MO	ISC,MEZ
1974	NOV	4	23	40	52	36.10N	7.70W	33	3.0 (2)	2.9	—	—	—	7		W.GIBRALTAR	ISC,MEZ
1974	NOV	9	12	15	10	36.77N	5.14E	33	3.9 (2)	4.0	4.1	—	8MK	44		KBHERRATA. AL	ISC,MEZ,HHB,KOO
1974	NOV	16	0	59	18	35.04N	2.96W	51	3.5 (2)	3.5	—	—	—	6		EBOALACENE. MO	ISC,MEZ
1974	NOV	19	22	27	25	36.30N	7.67W	33	3.1 (2)	3.0	—	—	—	11		W.GIBRALTAR	ISC,MEZ
1974	NOV	26	0	10	25	32.37N	3.89W	47	3.2 (2)	3.2	—	—	—	5		ZIAMILLE. MO	ISC,MEZ
1974	DEC	8	13	9	37	36.41N	4.91W	33	3.1 (2)	3.1	4.1	—	—	11		MARBELLA. SP	ISC,MEZ
1975	JAN	2	4	14	52	36.80N	8.60W		3.0 (2)	2.9	—	—	—	6		SE.CABO S. VICENTE	LIS
1975	JAN	9	0	59	51	36.46N	8.33W	61	3.1 (2)	3.0	4.4	—	2MK	17		SE.CABO S. VICENTE	ISC,MEZ
1975	JAN	9	12	33	17	35.02N	5.65W	51	3.1 (2)	3.1	—	—	—	19		W.BAB TAZA. MO	ISC,MEZ
1975	JAN	9	13	20	37	35.33N	3.78W	33	3.5 (2)	3.5	—	—	—	10		N.CABO QUILATES	ISC,MEZ
1975	JAN	13	7	17	56	35.91N	2.05W	59	3.5 (2)	3.5	4.6	—	—	16		ALBORAN	ISC,MEZ
1975	JAN	17	1	52	38	35.46N	3.48W	27	3.1 (2)	3.1	—	—	—	4		ALBORAN	ISC,MEZ
1975	JAN	19	7	2	16	37.30N	1.20W	33	3.2 (2)	3.2	4.3	—	—	5		MEDITERRANEAN	ISC
1975	JAN	23	20	27	15	33.02N	5.23W	33	3.2 (2)	3.2	—	—	—	6		TIMHADITE. MO	ISC,MEZ
1975	JAN	29	7	48	3	33.86N	4.96W		3.5 (2)	3.5	—	—	4MK	6		SIDI HARAZEM. MO	ISC,MEZ
1975	FEB	10	15	52	51	36.65N	6.87W		3.0 (2)	2.9	—	—	—	6		W.GIBRALTAR	ISC,MEZ
1975	FEB	15	2	44	58	34.75N	4.18W	52	3.5 (2)	3.5	3.3	—	—	9		BENI AMMART. MO	ISC
1975	FEB	22	20	58	33	36.40N	3.80W		3.1 (2)	3.0	—	—	—	3		ALBORAN	LIS
1975	MAR	1	13	19	31	36.32N	5.12W	53	3.4 (2)	3.4	—	—	5MK	12		ALBORAN	ISC,MEZ,HHB
1975	MAR	16	2	24	58	36.94N	3.72W	33	3.2 (2)	3.2	3.8	—	—	11		ALBORAN	ISC,MEZ
1975	MAR	18	21	25	56	36.75N	2.60W	33	3.5 (2)	3.5	4.7	—	3MK	12		E.BARLEMA. SP	ISC,MEZ
1975	MAR	21	9	47	14	36.54N	7.72W	56	3.7 (2)	3.7	5.0	—	4MK	22		GULF CADIZ	ISC,MEZ
1975	MAR	24	4	13	29	36.90N	1.98W	33	3.1 (2)	3.0	4.3	—	—	6		ALMERIA. SP	ISC
1975	MAR	25	14	34	5	37.91N	8.98W	33	3.3 (2)	3.3	—	—	—	6		ATLANTIC	ISC
1975	MAR	27	5	21	19	31.56N	6.60W	3	3.6 (2)	3.6	—	—	—	7		IGOUDLANE. MO	ISC,MEZ
1975	MAR	29	1	53	37	36.03N	3.17W	25	4.3 (2)	4.4	—	—	—	32		ALBORAN	ISC
1975	APR	1	8	14	44	34.35N	2.76E	89	3.2 (1)	—	3.9	—	—	20		SW.DJELFA. AL	ISC
1975	APR	5	11	25	54	36.53N	3.28W	33	3.1 (2)	3.0	—	—	—	14		ALBORAN	ISC,MEZ
1975	APR	5	23	37	10	36.32N	9.21W		3.2 (2)	3.2	3.8	—	—	10		W.GIBRALTAR	ISC
1975	MAY	4	19	58	49	34.84N	2.06W		3.7 (2)	3.7	—	—	—	6		OUIDA. MO	MEZ,SPG
1975	MAY	6	15	10	45	35.80N	8.81W		3.1 (2)	3.0	—	—	—	7		W.GIBRALTAR	ISC,MEZ
1975	MAY	7	6	37	0	35.98N	7.65W		3.1 (2)	3.1	—	—	—	7		W.GIBRALTAR	ISC,MEZ
1975	MAY	8	8	6	38	36.50N	7.70W		3.0 (2)	2.9	—	—	—	6		GULF CADIZ	LIS
1975	MAY	8	8	6	38	36.50N	7.70W		3.0 (2)	2.9	—	—	—	6		GULF CADIZ	LIS
1975	MAY	11	19	12	54	37.09N	5.25W	33	3.4 (2)	3.4	3.9	—	—	4		NE. PRADO REY. SP	ISC,MEZ
1975	MAY	15	4	15	32	36.24N	9.70W	33	3.7 (2)	3.7	—	—	—	13		W.GIBRALTAR	ISC,MEZ
1975	MAY	15	15	54	6	36.90N	1.50W	33	3.0 (2)	2.9	4.0	—	—	5		ALBORAN	MDD
1975	MAY	19	16	21	53	36.82N	0.94W	33	3.0 (2)	2.9	4.0	—	—	5		MEDITERRANEAN	ISC,MEZ
1975	MAY	19	23	54	41	36.82N	0.94W	33	3.0 (2)	2.9	4.0	—	—	5	A	N.MERS KEBIR. AL	MEZ,MDD
1975	MAY	28	16	27	45	35.89N	7.08W		3.1 (2)	3.1	—	—	—	5		W.GIBRALTAR	ISC,PAY
1975	MAY	29	22	23	9	36.51N	7.05W		3.0 (2)	2.9	—	—	—	10		W.GIBRALTAR	ISC
1975	JUN	13	4	27	56	36.50N	8.70W		3.1 (2)	3.0	—	—	—	—		W.GIBRALTAR	PAY

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M ₅	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1975	JUN	17	16	38	48	36.40N	9.93W		3.3	(2)	3.3	—	—	—	9	W.GIBRALTAR	ISC	
1975	JUN	20	6	45	52	30.78N	6.83W	1	3.5	(2)	3.5	3.6	—	4MK	5	TAGUENZALTE. MO	CHK,SPG	
1975	JUN	22	18	38	23	36.66N	3.20W	10	3.2	(2)	3.2	4.1	—	—	10	ALBORAN	ISC,MEZ	
1975	JUN	24	8	5	36	37.66N	3.68W		3.1	(2)	3.1	4.4	—	—	12	JAEN. SP	ISC	
1975	JUN	28	22	41	13	37.59N	3.59W	33	3.3	(2)	3.3	4.3	—	—	6	JAEN. SP	ISC	
1975	JUL	5	15	23	41	36.47N	4.91W	33	3.6	(2)	3.6	—	—	—	11	MALAGA. SP	ISC	
1975	JUL	5	22	20	51	34.94N	4.99W	91	3.1	(2)	3.0	—	—	—	6	TALATIA. MO	ISC,MEZ	
1975	JUL	10	0	0	52	36.47N	7.38W	33	3.2	(2)	3.2	—	—	—	10	W.GIBRALTAR	ISC	
1975	JUL	11	7	18	47	36.30N	5.37E	33	4.0	(2)	4.1	4.3	—	5MK	32	SETIF. AL	ISC,HHB,KOO	
1975	JUL	17	21	46	57	36.71N	9.44W		3.0	(1)	—	—	—	—	14	W.GIBRALTAR	ISC	
1975	JUL	20	10	49	51	36.47N	3.00E	10	4.7	(2)	4.9	—	—	—	21	BOUFARIK. AL	ISC,MEZ	
1975	JUL	23	22	57	25	36.42N	3.77E	33	3.3	(2)	3.3	—	—	—	22	BOUIRA. AL	ISC	
1975	JUL	23	22	57	25	36.42N	3.77E	33	3.3	(2)	3.3	—	—	—	22	BOUIRA. AL	ISC	
1975	AUG	3	0	20	56	33.08N	5.23W	12	3.4	(2)	3.4	—	—	—	7	MERHOUK. MO	ISC,MEZ	
1975	AUG	3	19	11	48	33.07N	5.27W	5	3.5	(2)	3.5	—	—	—	7	K.OUTRELI. MO	ISC,MEZ	
1975	AUG	7	15	30	22	36.40N	4.42W	94	4.5		5.1	—	—	—	198	ALBORAN	ISC	
1975	AUG	15	13	26	16	31.36N	7.48W	2	3.7	(2)	3.7	—	—	—	5	ZEREKTEN. MO	MEZ	
1975	AUG	27	5	58	11	37.70N	1.70W	33	3.1	(2)	3.0	4.0	—	—	3	LA PACA. SP	MDD	
1975	OCT	7	11	53	49	34.73N	4.18W	131	3.4	(2)	3.4	—	—	—	6	EGSANENE. MO	ISC,MEZ	
1975	OCT	17	8	54	6	36.35N	4.49E	17	3.5	(2)	3.5	—	—	7MK	26	TAZMALT. AL	ISC,HHB	
1975	OCT	29	22	22	7	31.26N	8.35W	17	3.3	(2)	3.3	—	—	6MK	6	TAHANAOUT. MO	ISC,MEZ	
1975	OCT	30	21	18	37	35.91N	3.78E	28	5.1	(2)	5.4	—	—	5MK	23	SOUR GHOZLANE. AL	ISC,MEZ,HHB	
1975	NOV	9	17	31	0	34.28N	4.25W	2	3.5	(2)	3.5	—	—	—	11	B. LENT. MO	ISC	
1975	NOV	13	6	37	47	32.39N	4.65W		3.1	(2)	3.0	—	—	—	9	BOU REDINE. MO	ISC,MEZ	
1975	NOV	14	10	41	18	32.35N	5.13W	103	3.1	(2)	3.0	—	—	—	10	TAGUENDOUST. MO	ISC,MEZ	
1975	NOV	17	14	46	19	33.61N	4.68W		3.5	(2)	3.5	—	—	—	5	SKOURA. MO	ISC,MEZ	
1975	NOV	18	11	19	15	34.87N	4.00W		3.3	(2)	3.3	—	—	—	5	AZZOUTENE. MO	ISC,MEZ	
1975	NOV	27	11	0	17	36.35N	0.11W		3.1	(2)	3.1	4.1	—	—	9	N.GULF ARZEW. AL	ISC,MEZ	
1975	DEC	2	5	18	56	35.67N	2.15W	33	3.0	(2)	2.9	3.8	—	—	9	ALBORAN	ISC	
1975	DEC	2	19	32	37	36.40N	4.20W	33	3.0	(2)	2.9	3.7	—	—	2	ALBORAN	MDD	
1975	DEC	3	7	2	25	35.46N	3.55W	51	3.2	(2)	3.2	—	—	—	6	SIDI DRISS. MO	ISC,MEZ	
1975	DEC	3	7	10	23	35.59N	3.56W		3.2	(2)	3.2	—	—	—	6	A	SIDI DRISS. MO	ISC,MEZ,SPG
1975	DEC	3	12	24	56	35.04N	3.64W	27	3.4	(2)	3.4	—	—	—	5	AZZOUTENE. MO	ISC,MEZ	
1975	DEC	3	19	23	58	35.24N	3.62W	79	3.5	(2)	3.5	—	—	3MK	10	A	ES-SEBT. MO	ISC,MEZ
1975	DEC	5	14	59	0	35.95N	8.10W		3.1	(2)	3.0	—	—	—	6	W.GIBRALTAR	ISC,MEZ	
1975	DEC	8	19	40	16	34.22N	5.14W	30	3.3	(2)	3.3	3.3	—	—	7	TAHALA. MO	ISC	
1975	DEC	10	3	37	43	33.38N	4.99W	26	3.0	(2)	2.9	—	—	—	8	AIT BEGAL. MO	ISC	
1975	DEC	11	4	16	10	36.50N	5.80W	33	3.1	(2)	3.0	4.0	—	—	5	E.ESTEPONA. SP	MDD	
1975	DEC	13	23	57	1	37.05N	5.28W	33	3.9	(2)	4.0	4.0	—	3MK	18	NW.PRUNA. SP	ISC,MEZ	
1975	DEC	16	9	25	36	36.85N	2.46W	33	3.8	(2)	3.9	4.2	—	3MK	4	ALMERIA. SP	MEZ,MDD	
1975	DEC	20	0	6	53	36.98N	5.28W	33	3.2	(2)	3.2	4.1	—	—	10	NW.PRUNA. SP	MEZ,MDD	
1975	DEC	28	17	57	22	36.46N	9.70W		3.8	(2)	3.9	—	—	—	10	W.GIBRALTAR	MEZ	
1976	JAN	5	1	27	11	34.38N	3.18W	78	4.0	(2)	4.1	3.2	—	—	8	TAZAROUT. MO	ISC	
1976	JAN	8	13	37	37	34.83N	5.31W	90	3.4	(2)	3.4	—	—	—	7	ZAARORA. MO	ISC	
1976	JAN	13	1	22	49	35.92N	9.38W		3.2	(2)	3.2	—	—	—	5	W.GIBRALTAR	ISC	
1976	JAN	20	3	55	19	31.54N	5.67W	128	3.2	(2)	3.2	—	—	—	5	IGH. AMAZDER. MO	ISC	
1976	FEB	5	4	54	57	33.99N	5.69W	13	3.1	(2)	3.0	—	—	—	9	A.DJEMA. MO	ISC	
1976	FEB	6	1	27	36	32.26N	5.17W		3.9	(2)	4.0	—	—	—	7	AGOUDIN. MO	ISC	

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1976	FEB	6	10	41	12	33.06N	4.76W	55	3.1	(2)	3.1	—	—	—	10	K. IMENAINE. MO	ISC
1976	FEB	8	19	51	7	35.31N	3.68W	3	3.7	(2)	3.8	—	—	—	8	EL-MAADENE. MO	ISC
1976	FEB	13	12	0	6	31.47N	5.65W	1	3.5	(2)	3.5	—	—	—	8	DI.TIKIT. MO	ISC
1976	FEB	18	6	39	7	34.63N	4.11W	87	3.4	(2)	3.4	—	—	—	7	ZA EL AZIZ. MO	ISC,MEZ
1976	MAR	2	8	42	26	35.13N	3.87W	7	3.2	(2)	3.2	4.1	—	—	12	TABLAKHAL. MO	ISC,MEZ
1976	MAR	5	20	4	4	32.30N	5.04W	94	3.5	(2)	3.5	—	—	—	5	TAGUENDOUST. MO	ISC,MEZ
1976	MAR	16	18	34	43	35.59N	4.84W	87	3.5	(3)	2.7	—	3.6	—	16	ALBORAN	ISC,MEZ
1976	MAR	16	18	37	51	33.38N	5.30W	23	4.2	(2)	4.3	—	—	—	5	ARHBALOU LARBI. MO	ISC,MEZ
1976	MAR	30	22	57	3	34.97N	3.76W	126	3.7	(2)	3.7	—	—	—	6	TAFEREIT. MO	ISC,MEZ
1976	APR	9	19	24	49	36.41N	7.65W	5	3.3	(2)	3.3	—	—	—	15	W.GIBRALTAR	ISC,MEZ
1976	APR	13	19	23	15	34.32N	4.85W	14	4.1	(2)	4.2	3.3	—	—	7	SIDI AHMED. MO	ISC,MEZ
1976	APR	15	16	6	9	34.22N	6.31W	5	3.8	(2)	3.9	—	—	—	9	TIFLET. MO	ISC,MEZ
1976	APR	20	11	2	29	31.90N	6.13W	111	3.5	(2)	3.5	—	—	—	7	Z.AHANESAL. MO	ISC,MEZ
1976	JUN	3	0	36	59	36.02N	4.74W	75	3.2	(2)	3.2	—	—	—	5	ALBORAN	MEZ,SPG
1976	JUN	4	23	1	15	36.71N	7.74W	42	3.3	(2)	3.3	—	—	—	13	GULF CADIZ	ISC,MEZ
1976	JUN	14	8	35	5	34.77N	3.55W		3.5	(2)	3.5	—	—	—	6	SAKA. MO	ISC,MEZ
1976	JUL	31	8	59	39	36.60N	5.85W	33	4.2	(2)	4.3	4.4	—	—	9	ALCALA GAZULES. SP	ISC,MEZ
1976	AUG	28	4	16	26	35.86N	7.81W	5	3.4	(2)	3.4	—	—	—	6	W.GIBRALTAR	ISC,MEZ
1976	OCT	5	8	28	29	34.83N	7.70W	5	3.1	(2)	3.1	—	—	—	—	ATLANTIC	MEZ,SPG
1976	OCT	30	14	27	29	35.72N	8.99W	102	3.0	(2)	2.9	—	—	—	7	W.GIBRALTAR	ISC,MEZ
1976	NOV	8	21	14	52	32.12N	5.89W		3.1	(2)	3.0	—	—	—	5	TASRAFT. MO	ISC,MEZ
1976	NOV	22	12	30	57	34.80N	9.80E		4.1	(2)	4.2	—	—	6MK	—	REGUEB. TU	MEZ
1976	DEC	1	1	33	9	36.50N	8.60E		4.3	(2)	4.4	—	—	7MK	—	AIN SOLTANE. TU	MEZ
1976	DEC	16	15	22	36	36.90N	10.10E		4.3	(2)	4.5	—	—	5MK	—	ZHANA. TU	MEZ
1977	JAN	7	15	20	40	32.63N	5.76W		3.6	(2)	3.6	—	—	—	5	TIFFERT. MO	ISC,MEZ
1977	JAN	15	23	58	43	33.71N	3.56W		4.3	(2)	4.4	—	—	—	13	FEGGOUS. MO	ISC,MEZ
1977	JAN	16	21	5	53	36.38N	4.83W	33	3.4	(2)	3.4	—	—	—	15	ALBORAN	ISC,MEZ
1977	JAN	19	20	46	53	36.56N	8.43E	21	4.6		4.9	—	—	7MK	194	AIN SOLTANE. TU	ISC,MEZ
1977	JAN	20	14	50	56	35.60N	10.70E		3.7	(2)	3.7	—	—	5MK	—	BEMBLA. TU	MEZ
1977	JAN	23	12	47	42	37.50N	4.30W	33	4.0	(2)	4.1	—	—	—	3	AGUILAR. SP	MDD
1977	FEB	3	11	8	33	36.30N	11.20E		4.1	(2)	4.2	—	—	6MK	—	LARGE CAP BONE. TU	MEZ
1977	FEB	7	0	16	23	35.62N	10.74E	29	4.1	(2)	4.2	—	—	7MK	29	BEMBLA. TU	ISC
1977	FEB	7	0	20	35	35.60N	10.70E		3.5	(2)	3.5	—	—	5MK	— A	BEMBLA. TU	MEZ
1977	FEB	7	1	46	51	35.60N	10.70E		3.9	(2)	4.0	—	—	6MK	— A	BEMBLA. TU	MEZ
1977	FEB	7	3	35	54	35.60N	10.70E		3.5	(2)	3.5	—	—	5MK	— A	BEMBLA. TU	MEZ
1977	FEB	7	7	30	48	35.60N	10.70E		3.5	(2)	3.5	—	—	5MK	— A	BEMBLA. TU	MEZ
1977	FEB	9	13	55	3	36.42N	8.47E	41	4.2	(1)	4.5	—	—	7MK	50 A	AIN SOLTANE. TU	ISC,MEZ
1977	FEB	15	21	59	58	36.50N	8.50E		3.4	(2)	3.4	—	—	5MK	— A	AIN SOLTANE. TU	MEZ
1977	FEB	16	8	22	0	36.30N	11.20E		3.9	(2)	4.0	—	—	6MK	—	E.NABEUL. TU	MEZ
1977	FEB	18	12	9	25	36.88N	4.86W	20	4.4	(2)	4.6	—	—	—	14	CUEV. BERCERO. SP	ISC,MEZ
1977	FEB	19	15	51	10	36.67N	8.46E	33	3.6	(2)	3.6	—	—	5MK	4 A	AIN SOLTANE. TU	ISC,MEZ
1977	FEB	19	19	54	7	35.29N	6.71W		3.1	(2)	3.1	—	—	—	5	ATLANTIC	ISC,MEZ
1977	FEB	26	1	9	9	36.50N	8.50E		3.5	(2)	3.5	—	—	5MK	— A	AIN SOLTANE. TU	MEZ
1977	MAR	3	11	39	52	37.10N	3.60W	33	3.3	(2)	3.3	—	—	—	—	SIER.NEVADA. SP	MDD
1977	MAR	10	4	25	12	36.30N	11.20E		3.5	(2)	3.5	—	—	5MK	—	GULF HAMMAMET. TU	MEZ
1977	MAR	23	11	19	24	36.20N	5.90W	7	3.6	(2)	3.6	—	—	—	7	STRT.GIBRALTAR	ISC,MEZ
1977	MAR	30	20	37	39	36.50N	8.50E		3.4	(2)	3.4	—	—	5MK	— A	AIN SOLTANE. TU	MEZ
1977	MAR	31	10	18	42	36.50N	8.50E		4.0	(2)	4.1	—	—	6MK	— A	AIN SOLTANE. TU	MEZ

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1977	APR	8	1	5	14	36.17N	9.91W		3.3	(2)	3.3	—	—	—	8	W.GIBRALTAR	MEZ
1977	APR	14	7	17	10	36.43N	5.71E	18	4.3		4.9	—	—	5MK	87	SI-MEROUANE. AL	ISC,MEZ,HHB
1977	APR	24	18	47	29	36.88N	5.30W	5	3.2	(2)	3.2	4.2	—	—	13	OLVERA. SP	ISC,MEZ
1977	APR	25	5	36	59	34.00N	10.00E	10	3.5	(2)	3.5	—	—	—	13	LARGE GABES. TU	ISC,MEZ
1977	MAY	2	14	43	15	34.95N	8.41W	20	3.2	(2)	3.2	—	—	—	5	ATLANTIC	MEZ,SPG
1977	MAY	12	6	59	7	34.61N	4.59W	59	3.3	(2)	3.3	—	—	—	6	BENNISSAT. MO	ISC,MEZ
1977	MAY	28	7	59	6	34.80N	0.20W	11	3.7	(2)	3.8	—	—	—	8	EL—TERNI. MO	ISC,MEZ
1977	MAY	29	23	4	0	36.12N	3.12W	35	3.4	(2)	3.4	4.3	—	—	7	ALBORAN	ISC,MEZ
1977	JUN	3	11	55	2	32.25N	6.10W		3.2	(2)	3.2	—	—	—	8	AGOULAF. MO	MEZ,SPG
1977	JUN	6	10	49	10	37.66N	1.83W	10	4.0		4.1	—	—	—	61	LORCA. SP	ISC
1977	JUN	14	4	49	50	34.77N	4.38W	79	3.1	(2)	3.0	—	—	—	10	TIZILFRI. MO	ISC,MEZ
1977	JUN	14	15	9	32	35.90N	10.00W		3.5	(2)	3.5	—	—	—	8	W.GIBRALTAR	SPG,MEZ
1977	JUN	21	6	42	36	36.84N	4.65W	50	3.1	(2)	3.1	—	—	—	6	ALBORAN	ISC,MEZ
1977	JUL	15	5	41	49	35.17N	3.73W	17	3.7	(2)	3.8	4.2	—	5MK	26	AL-HOCEIMA. MO	ISC,MEZ
1977	AUG	12	7	47	6	36.90N	3.60W	33	3.2	(2)	3.2	—	—	—	3	PINOS D. VALLE. SP	MDD
1977	AUG	30	6	3	35	31.36N	6.78W	21	3.1	(2)	3.0	3.0	—	—	4	AGUERZA. MO	ISC,MEZ
1977	SEP	1	18	35	14	32.80N	5.51W	125	3.4	(2)	3.4	—	—	—	9	KHENIFRA. MO	MEZ,SPG
1977	SEP	4	8	18	25	34.00N	8.81E	33	4.3	(1)	4.5	—	—	5MK	57	DJ. BOU RAMLI. TU	ISC,MEZ
1977	SEP	9	12	20	20	32.99N	4.22W	2	4.0	(2)	4.1	4.0	—	—	9	DOUIRAT. MO	ISC,MEZ
1977	SEP	24	5	9	41	34.23N	9.27E	33	3.2	(1)	—	—	—	6MK	19	DJ. HIDOUD. TU	ISC,MEZ
1977	OCT	19	21	46	11	35.89N	9.93W	10	3.5	(2)	3.5	—	—	—	9	W.GIBRALTAR	MEZ
1977	OCT	25	13	1	39	31.47N	5.62W	2	3.0	(2)	2.9	2.9	—	—	8	AIT EL MAQSOUB. MO	ISC,MEZ
1977	OCT	27	13	13	35	32.55N	5.57W	107	3.3	(2)	3.3	3.3	—	—	6	KERROUCHENE. MO	ISC,MEZ
1977	OCT	30	8	10	48	35.83N	9.99W	5	3.9	(2)	4.0	—	—	—	4	W.GIBRALTAR	MEZ,SPG
1977	NOV	6	4	37	3	33.98N	5.48W	17	3.7	(2)	3.7	—	—	—	9	AIN TAODJIA. MO	ISC,MEZ
1977	NOV	6	17	35	4	32.69N	5.28W	78	3.1	(2)	3.0	—	—	—	8	RA.TAQUERDA. MO	ISC,MEZ
1977	NOV	11	15	53	57	35.22N	8.16W	16	3.7	(2)	3.8	—	—	—	6	ATLANTIC	ISC,MEZ
1978	JAN	2	15	18	32	35.31N	6.66W		3.1	(2)	3.1	3.2	—	—	7	W.GIBRALTAR	ISC,MEZ
1978	JAN	28	22	55	4	35.37N	1.68W	40	3.8	(2)	3.9	—	—	5MK	5	MEDITERRANEAN	ISC,MEZ
1978	FEB	7	1	39	17	29.91N	7.84W		4.5	(2)	4.7	4.5	—	—	13	IMOULA. MO	ISC,MEZ
1978	FEB	8	16	14	40	34.27N	9.15E	37	4.3		5.0	—	—	7MK	147	EL-AYACHA. TU	ISC,MEZ
1978	FEB	8	21	42	52	31.88N	5.49W		4.2	(2)	4.3	3.9	—	—	13	ZERCHANE. MO	ISC,MEZ
1978	FEB	9	14	53	4	34.80N	3.06W		3.2	(2)	3.2	3.2	—	—	4	ALBORAN	ISC,MEZ
1978	FEB	9	22	53	59	37.70N	2.53W		3.1	(2)	3.0	—	—	4MK	3	ORCE. SP	MDD
1978	FEB	12	9	33	41	34.78N	3.00W	40	3.1	(2)	3.0	3.6	—	—	9	F ZAIO. MO	ISC,MEZ
1978	FEB	12	13	12	19	34.98N	2.96W		3.2	(2)	3.2	3.6	—	—	11	TIZTOUTINE. MO	ISC,MEZ
1978	FEB	16	23	22	57	36.22N	7.95W	1	3.5	(2)	3.5	—	—	—	12	W.GIBRALTAR	ISC,MEZ
1978	MAR	5	16	47	51	31.85N	5.93W	45	3.4	(2)	3.4	3.4	—	—	5	TISSELMIT. MO	ISC,MEZ
1978	MAR	5	20	8	21	37.84N	4.42W	20	3.3	(2)	3.3	—	—	—	7	EL-CARPIO. SP	ISC
1978	MAR	6	18	51	14	34.89N	4.30W	2	3.4	(2)	3.4	3.4	—	—	5	SW.ACHDIR. MO	ISC,MEZ
1978	MAR	13	5	28	51	34.70N	3.01W		3.1	(2)	3.1	3.1	—	—	4	TIZTOUTINE. MO	ISC,MEZ
1978	MAR	15	10	44	11	35.27N	8.88W		3.5	(2)	3.5	3.5	—	—	7	W.GIBRALTAR	ISC,MEZ
1978	MAR	16	23	11	3	36.48N	7.33E	10	4.4	(2)	4.6	—	—	5MK	41	GUELMA. AL	ISC,HHB
1978	MAR	18	11	10	2	36.65N	2.04W	5	3.4	(2)	3.4	—	—	—	7	E.C.DE GATA. SP	ISC,MEZ
1978	MAR	24	13	1	23	37.65N	1.69W	10	4.2	(2)	4.3	—	—	—	12	N.MAZARRON. SP	ISC
1978	MAR	28	1	37	6	35.69N	3.64W	5	3.8	(2)	3.9	—	—	—	8	ALBORAN	ISC,MEZ
1978	APR	2	2	58	57	37.78N	7.29E	10	3.8	(2)	3.9	—	—	—	24	MEDITERRANEAN	ISC
1978	APR	8	15	14	46	37.45N	2.40W	10	3.4	(2)	3.4	—	—	—	7	E.ORIA. SP	ISC

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1978	APR	10	19	3	47	33.77N	6.03W	52	3.2 (2)	3.2	3.1	—	—	9		D.BEL AMRI. MO	ISC,MEZ
1978	APR	22	2	56	1	32.04N	6.93W	5	3.5 (2)	3.5	3.4	—	—	8		EL-DJEMA. MO	ISC,MEZ
1978	APR	24	21	7	31	33.54N	6.05W	15	3.7 (2)	3.8	3.6	—	—	5		KHEMISSSET. MO	ISC,MEZ
1978	APR	27	22	7	41	35.34N	9.77W	5	3.5 (2)	3.5	3.4	—	—	8		ATLANTIC	ISC,MEZ
1978	MAY	10	23	54	9	37.52N	2.17W	40	4.8 (2)	5.0	—	—	—	11		HUERCAL. MO	ISC
1978	MAY	11	4	51	22	36.52N	2.54W	3	4.3 (2)	4.5	—	—	4MK	17		ALBORAN	ISC,MEZ
1978	MAY	11	16	18	46	35.17N	2.37W	8	3.7 (2)	3.7	4.0	—	—	10		EL-BORCH. MO	ISC,MEZ
1978	MAY	12	6	24	36	33.58N	9.16W	1	4.0 (2)	4.1	4.0	—	—	11		ATLANTIC	ISC,MEZ
1978	MAY	17	22	28	24	37.77N	2.40W	33	3.8 (2)	3.9	—	—	—	8		HUESCAR. SP	ISC
1978	MAY	23	18	27	35	35.32N	4.30W	20	3.2 (2)	3.2	3.8	—	—	9		ALBORAN	ISC,MEZ
1978	MAY	26	1	45	49	36.61N	5.01E	33	3.0 (1)	—	—	—	5MK	15		AMIZOUR. AL	ISC,HHB
1978	JUN	4	9	42	12	35.96N	2.04W	10	3.1 (2)	3.1	—	—	—	6		ALBORAN	ISC,MEZ
1978	JUN	7	15	35	20	37.09N	9.21W		3.2 (1)	—	3.5	—	—	18		ATLANTIC	ISC
1978	JUN	12	20	11	23	30.87N	6.82W	1	3.1 (2)	3.1	3.1	—	—	6		OUARZAZATE. MO	MEZ,SPG
1978	JUN	16	2	33	43	36.11N	7.56W	60	3.4	4.5	—	—	—	71		W.GIBRALTAR	ISC,MEZ
1978	JUL	2	20	6	20	35.95N	9.65W	5	3.2 (2)	3.2	—	—	—	6		W.GIBRALTAR	ISC,MEZ
1978	JUL	17	14	15	56	37.78N	7.83W	15	3.7 (2)	3.8	—	—	—	11		S. BEJA. SP	ISC
1978	JUL	26	8	53	42	36.96N	3.81W	5	3.2 (2)	3.2	—	—	—	3		JAYENA. SP	MEZ,MDD
1978	JUL	26	21	30	34	36.70N	7.57W	72	3.1 (2)	3.1	—	—	—	12		W.GIBRALTAR	ISC,MEZ
1978	AUG	14	14	17	48	36.51N	6.94W	21	4.5	4.9	—	—	4MK	145		W.GIBRALTAR	ISC,MEZ
1978	AUG	23	2	56	49	36.46N	6.17E	33	3.9 (2)	4.0	—	4.0	—	12		W.CONSTANTINE. AL	ISC,MEZ
1978	SEP	4	13	36	0	36.59N	2.93E	10	4.1 (2)	4.2	—	4.2	—	22		W.KHEM.KHECHNA. AL	ISC,MEZ
1978	SEP	11	19	47	33	37.29N	0.75W	40	3.4 (2)	3.4	—	—	—	6		MEDITERRANEAN	ISC
1978	SEP	23	1	56	29	35.68N	6.69W	10	4.1 (2)	4.2	3.7	—	—	26		W.GIBRALTAR	ISC,MEZ
1978	OCT	14	16	22	3	35.39N	2.71W	5	4.0 (2)	4.1	4.1	—	—	5		CAP AFRAU. MO	ISC,MEZ
1978	OCT	15	17	22	51	37.49N	1.43W	40	3.3 (2)	3.3	—	—	—	12	F	E.AGUILAS. SP	ISC
1978	OCT	17	7	16	17	37.93N	1.45W	10	3.5 (2)	3.5	—	—	—	10		PLIEGO. SP	ISC
1978	OCT	28	21	12	35	35.93N	2.33W	5	3.1 (2)	3.0	—	—	—	8		ALBORAN	ISC,MEZ
1978	NOV	6	3	20	54	31.41N	5.77W	133	3.7 (2)	3.7	—	—	—	8		TIKKDARINE. MO	ISC,MEZ
1978	NOV	6	3	23	46	31.37N	5.73W	102	3.7 (2)	3.7	3.7	—	—	10	A	TIN OUSDIL. MO	ISC,MEZ
1978	NOV	16	14	54	44	36.27N	1.06W	20	4.0 (2)	4.1	—	—	4MK	8		MEDITERRANEAN	ISC,MEZ
1978	NOV	17	18	19	13	35.87N	0.64W	33	3.7 (2)	3.7	3.7	—	—	4		MEDITERRANEAN	ISC,MEZ
1978	NOV	18	10	59	43	36.60N	3.20W	10	3.2 (2)	3.2	—	—	—	7		ALBORAN	ISC
1978	NOV	18	11	24	13	36.53N	3.04W	5	3.2 (2)	3.2	—	—	—	5	A	ALBORAN	ISC,MEZ
1978	NOV	19	3	32	2	37.44N	8.15W	5	3.1 (2)	3.0	—	—	—	10		W.GIBRALTAR	ISC,MEZ
1978	NOV	22	16	25	36	37.16N	2.83W	5	3.0 (2)	2.9	—	—	—	10		ALMERIA. MO	ISC
1978	NOV	23	7	12	36	35.00N	6.20W	33	3.1 (2)	3.1	—	—	—	3	A	LARACHE. MO	SPG
1978	DEC	2	14	48	57	34.90N	4.36W		3.1 (2)	3.1	3.1	—	—	7		TARGUIST. MO	ISC,MEZ
1978	DEC	11	8	56	36	33.25N	0.19E	10	4.1	4.9	—	—	—	74		TISMOULINE. AL	ISC,MEZ
1978	DEC	28	9	54	47	37.42N	1.40W	60	3.4 (2)	3.4	—	—	—	5		E.CARTAGENA. SP	ISC
1978	DEC	28	21	30	56	37.89N	3.72W	5	4.2 (2)	4.3	—	—	—	18		MENGIBAR. MO	ISC
1979	JAN	2	15	40	2	32.24N	5.05W		3.2 (2)	3.2	—	—	—	4		EL-HARA. MO	ISC,MEZ
1979	JAN	4	9	27	35	34.26N	5.64W	4	3.0 (2)	2.9	—	—	—	4		KHENICHET. MO	MEZ,SPG
1979	JAN	14	21	9	10	34.84N	4.23W	7	3.7 (2)	3.7	—	—	—	9		TIZILFRI. MO	ISC,MEZ
1979	JAN	17	17	43	30	33.40N	5.27W	9	4.7	4.7	4.5	—	8MK	83		AIN LEUH. MO	ISC,MEZ
1979	JAN	19	1	9	21	33.46N	5.06W	16	3.0 (2)	2.9	3.1	—	—	3		AZROU. MO	MEZ,SPG
1979	JAN	26	6	10	42	34.99N	4.39W	14	3.1 (2)	3.1	—	—	—	4		TARGUIST. MO	ISC,MEZ
1979	FEB	4	1	34	38	36.05N	9.69W	13	3.2 (2)	3.2	—	—	—	4		W.GIBRALTAR	MEZ,SPG

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M ₅	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1979	FEB	5	13	34	36	33.48N	5.03W	19	3.0	(2)	2.9	—	—	—	3	AZROU. MO	MEZ,SPG
1979	FEB	5	22	52	25	36.79N	4.09W	90	4.1	(3)	3.6	—	4.2	3MK	37	VELEZ MALAGA. SP	ISC,MEZ
1979	FEB	9	8	25	8	35.93N	9.32W	10	3.2	(2)	3.2	—	—	—	3	W.GIBRALTAR	MEZ,SPG
1979	FEB	13	23	23	58	36.73N	3.90W	5	3.3	(2)	3.3	—	—	—	4	NERJA. SP	MEZ,MDD
1979	FEB	21	3	10	12	34.60N	7.02W	2	3.0	(2)	2.9	—	—	—	3	ATLANTIC	MEZ,SPG
1979	FEB	21	19	2	34	35.66N	3.70W	10	3.0	(2)	2.9	—	—	—	3	ALBORAN	MEZ,SPG
1979	FEB	22	12	17	5	36.22N	9.53W	10	3.0	(2)	2.9	—	—	—	4	W.GIBRALTAR	MEZ,SPG
1979	FEB	24	6	28	56	33.44N	4.63W	6	3.0	(2)	2.9	2.9	—	—	3	BOULEMANE. MO	MEZ,SPG
1979	FEB	24	16	46	27	34.90N	4.30W	10	3.2	(2)	3.2	3.9	—	—	11	F TARGUIST. MO	ISC,MEZ
1979	FEB	24	19	31	21	34.88N	4.31W	10	3.1	(2)	3.0	3.5	—	—	10	F TARGUIST. MO	ISC,MEZ
1979	FEB	24	21	19	21	34.93N	4.45W	10	4.3	(2)	4.4	4.3	—	4MK	40	TARGUIST. MO	ISC,MEZ
1979	FEB	25	17	46	27	35.10N	4.41W	17	3.5	(2)	3.5	3.3	—	—	7	A DJENANAT. MO	ISC,MEZ
1979	FEB	26	22	10	34	34.67N	4.14W	1	3.1	(2)	3.1	—	—	—	—	F TAINESTE. MO	MEZ
1979	FEB	27	1	4	36	34.83N	4.45W	10	3.3	(2)	3.3	3.2	—	—	7	HINZA. MO	ISC,MEZ
1979	FEB	27	12	57	7	36.26N	3.71W	8	3.2	(2)	3.2	—	—	—	12	ALBORAN	ISC,MEZ
1979	FEB	28	8	10	45	34.80N	3.64W	5	3.0	(2)	2.9	—	—	—	3	IFEZARENE. MO	MEZ,SPG
1979	MAR	2	2	2	8	36.56N	2.60W	5	3.3	(2)	3.3	—	—	—	4	ALBORAN	MEZ,MDD
1979	MAR	5	17	33	10	36.83N	2.50W		3.0	(2)	2.9	—	—	2MK	1	ALMERIA. SP	MEZ,MDD
1979	MAR	7	19	21	40	31.41N	6.15W	33	3.5	(2)	3.5	3.6	—	—	5	IMASSINE. MO	ISC,MEZ
1979	MAR	9	22	40	36	34.93N	4.28W	41	3.4	(2)	3.4	—	—	—	13	TARGUIST. MO	ISC
1979	MAR	11	6	41	56	35.92N	4.95W		3.1	(2)	3.1	—	—	—	4	TARGUIST. MO	ISC,MEZ
1979	MAR	12	3	18	48	35.55N	3.49W	10	3.1	(2)	3.1	—	—	—	10	ALBORAN	ISC,MEZ
1979	MAR	12	8	29	4	33.93N	3.40W		3.2	(2)	3.2	—	—	—	6	TAOURIRT. MO	ISC,MEZ
1979	MAR	12	22	12	28	36.91N	7.13W	33	3.1	(2)	3.0	—	—	—	11	GULF CADIZ	ISC,MEZ
1979	MAR	14	12	37	3	35.60N	11.30E		3.6	(2)	3.6	—	—	5MK	—	E.MAHDIA. TU	MEZ
1979	MAR	15	4	45	9	35.58N	3.79W	55	3.4	(2)	3.4	—	—	—	5	ALBORAN	ISC,MEZ
1979	MAR	15	18	22	48	35.50N	11.30E		3.7	(2)	3.7	—	—	—	—	A E.MAHDIA. MO	MEZ
1979	MAR	16	23	31	49	34.83N	4.37W	10	3.3	(2)	3.3	3.9	—	—	11	TARGUIST. MO	ISC,MEZ
1979	MAR	16	23	38	2	36.06N	5.41W	5	3.5	(2)	3.5	3.0	—	—	4	TARGUIST. MO	ISC,MEZ
1979	MAR	17	1	25	19	34.80N	4.40W	5	3.3	(2)	3.3	2.9	—	—	3	A TARGUIST. MO	SPG
1979	MAR	17	20	57	45	36.56N	7.77W	33	3.5	(2)	3.5	—	—	—	12	W.GIBRALTAR	ISC,MEZ
1979	MAR	19	13	54	20	32.48N	1.11W		3.4	(2)	3.4	3.4	—	—	5	BJ. D'EL ARICHA. MO	ISC,MEZ
1979	MAR	19	15	29	8	33.24N	5.29W	5	3.4	(2)	3.4	3.5	—	—	5	AIN LEUH. MO	ISC,MEZ
1979	MAR	20	2	48	39	32.88N	1.35E		4.2	(2)	4.3	—	—	—	15	BREZINA. AL	ISC
1979	MAR	20	21	53	54	37.27N	3.76W	7	4.4	(2)	4.6	—	—	6MK	48	CHIMENEAS. SP	ISC
1979	MAR	20	21	57	1	37.29N	3.69W	14	3.6	(1)	—	4.4	—	3MK	37	A FU. VAQUEROS. SP	ISC
1979	MAR	21	19	20	54	36.20N	2.98E	95	3.0	(1)	—	—	—	3MK	13	CHELLALA. AL	ISC,MEZ
1979	MAR	25	11	13	25	34.00N	5.20W	5	3.3	(2)	3.3	3.3	—	—	5	FEZ. MO	SPG
1979	MAR	26	0	16	37	36.67N	9.96W		3.2	(2)	3.2	—	—	—	6	W.GIBRALTAR	ISC,MEZ
1979	MAR	30	6	25	43	36.03N	4.92W	33	3.5	(2)	3.5	—	—	—	10	ALBORAN	ISC,MEZ
1979	APR	2	1	10	39	35.42N	3.61W		3.0	(2)	2.9	—	—	—	2	F ALBORAN	MEZ,SPG
1979	APR	5	15	14	52	35.39N	3.59W	33	3.2	(2)	3.2	—	—	—	9	ALBORAN	ISC,MEZ
1979	APR	7	6	41	19	34.87N	4.20W		3.2	(2)	3.2	—	—	—	6	TARGUIST. MO	ISC,MEZ
1979	APR	9	8	13	11	37.14N	10.12E	25	4.6		4.8	—	—	7MK	76	RAS JEBEL. TU	ISC,MEZ
1979	APR	9	10	27	21	37.19N	10.18E	32	4.0	(2)	4.1	—	—	—	37	A RAS JEBEL. TU	ISC,MEZ
1979	APR	16	4	57	0	34.82N	4.37W	5	3.0	(2)	2.9	2.8	—	—	—	SW.TARGUIST. MO	MEZ
1979	APR	17	8	20	53	34.40N	4.30W		3.1	(2)	3.0	—	—	—	—	FEZZAZRA. MO	MEZ
1979	APR	18	20	29	24	36.39N	7.63W	5	3.9	(2)	4.0	—	—	—	9	W.GIBRALAR	ISC,SPG

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1979	APR	21	19	52	5	35.06N	4.29W	10	3.3 (2)	3.3	3.8	—	3MK	20		MESTASSA. MO	ISC,MEZ
1979	APR	21	20	5	33	35.04N	4.73W		3.0 (2)	2.9	—	—	—	6		ET-TENINE. MO	ISC,MEZ
1979	APR	23	22	19	27	35.03N	2.84W	5	3.2 (2)	3.2	3.1	—	—	4		ZELUAN. MO	MEZ,SPG
1979	APR	25	23	17	28	35.95N	8.57W		3.1 (2)	3.1	—	—	—	7		W.GIBRALTAR	ISC,MEZ
1979	APR	26	12	28	25	34.81N	9.93E	10	4.0 (2)	4.1	—	—	—	21		AGAREB. TU	ISC,MEZ
1979	MAY	1	12	56	41	36.65N	5.16W	10	3.2 (2)	3.2	—	—	—	10		ESTEPONA. SP	ISC,MEZ
1979	MAY	1	13	9	20	36.44N	5.08W		3.2 (2)	3.2	—	—	—	7	A	E.ESTEPONA. SP	MDD
1979	MAY	1	13	17	22	35.69N	4.83W	10	3.1 (2)	3.1	—	—	—	7		ALBORAN	ISC,MEZ
1979	MAY	1	13	49	52	36.96N	5.45W	42	3.9 (2)	4.0	—	—	—	26		CORRIPE. SP	ISC,MEZ
1979	MAY	5	21	9	22	30.00N	8.01W		3.4 (2)	3.4	—	—	—	5		TAMTELT. MO	ISC,MEZ
1979	MAY	14	1	45	57	37.33N	2.58W	5	3.3 (1)	—	4.2	—	5MK	24	F	CU. DE BAZA. SP	ISC
1979	MAY	14	1	47	45	37.68N	2.42W	10	3.7 (2)	3.8	—	—	—	33		NE.GUADIX. SP	ISC
1979	MAY	22	13	52	40	36.41N	2.97W	5	3.3 (2)	3.3	—	—	—	4		ALBORAN	ISC,MEZ
1979	MAY	26	6	13	16	35.00N	4.50W		3.1 (2)	3.0	—	—	—	3		TARGUIST. MO	SPG
1979	MAY	27	19	41	15	36.95N	3.74W	10	3.5 (2)	3.5	—	—	4MK	17		ALBUNUELAS. SP	ISC,MEZ
1979	MAY	30	1	25	24	35.47N	4.32W		3.2 (2)	3.2	—	—	—	4		TOR.DE ALCALA. MO	ISC,MEZ
1979	JUN	3	16	43	59	35.30N	9.80W		3.2 (2)	3.2	3.2	—	—	3		W.GIBRALTAR	MEZ,SPG
1979	JUN	4	22	29	28	36.44N	4.16W	9	3.1 (2)	3.0	—	—	—	5		ALBORAN	MEZ,MDD
1979	JUN	7	15	43	12	34.80N	4.25W		3.7 (2)	3.7	3.7	—	—	9		TARGUIST. MO	ISC,MEZ
1979	JUN	9	0	36	36	32.91N	5.19W	72	3.8 (2)	3.9	—	—	3MK	14	F	BOUMIA. MO	ISC,MEZ
1979	JUN	9	1	11	19	32.87N	5.01W	4	3.3 (2)	3.3	3.3	—	—	5	F	ITZER. MO	ISC,MEZ
1979	JUN	9	13	45	39	32.81N	5.23W	5	4.0 (2)	4.1	4.1	—	4MK	8		KSAR ADMEUR. MO	ISC,MEZ
1979	JUN	10	18	10	16	32.90N	5.00W	24	3.2 (2)	3.2	3.2	—	3MK	5	A	BOUMIA. MO	ISC,MEZ
1979	JUN	10	20	3	33	32.82N	5.14W		3.3 (2)	3.3	3.3	—	—	6	A	BOUMIA. MO	ISC,MEZ
1979	JUN	13	19	26	51	32.80N	5.21W		3.1 (2)	3.1	3.1	—	—	5	A	KERROUCHENE. MO	ISC,MEZ
1979	JUN	16	13	51	42	32.87N	5.27W	10	3.9 (2)	4.0	4.0	—	5MK	40		BOUMIA. MO	ISC,MEZ
1979	JUN	16	14	2	25	32.95N	5.45W		3.3 (2)	3.3	3.3	—	—	4	A	BOUMIA. MO	ISC,MEZ
1979	JUN	16	14	26	24	32.85N	5.17W	10	3.8 (2)	3.9	3.9	—	5MK	12	A	BOUMIA. MO	ISC,MEZ
1979	JUN	16	18	48	47	32.88N	5.04W		3.1 (2)	3.1	3.1	—	—	4	A	ITZER. MO	ISC,MEZ
1979	JUN	17	7	38	11	32.76N	5.28W		3.1 (2)	3.1	3.1	—	—	6	A	BOUMIA. MO	ISC,MEZ
1979	JUN	17	23	38	37	32.69N	5.28W		4.1 (2)	4.2	4.2	—	—	8		BOUMIA. MO	ISC,MEZ
1979	JUN	19	3	39	17	32.84N	5.00W		3.2 (2)	3.2	3.2	—	—	5	A	ITZER. MO	ISC,MEZ
1979	JUN	19	14	22	43	32.87N	4.81W		3.8 (2)	3.9	3.9	—	3MK	6	A	BOUMIA. MO	ISC,MEZ
1979	JUN	20	0	9	5	37.27N	3.49W	55	3.3	4.7	—	—	6MK	102		GRANADA. SP	ISC
1979	JUN	20	17	50	54	32.93N	5.04W	5	4.1 (2)	4.2	4.2	—	3MK	9		BOUMIA. MO	ISC,MEZ
1979	JUN	23	18	17	10	34.68N	6.02W		3.1 (2)	3.0	3.0	—	—	4		UAZAN. MO	ISC,MEZ
1979	JUN	25	5	1	6	32.89N	5.03W		3.1 (2)	3.0	2.9	—	—	4		ITZER. MO	ISC,MEZ
1979	JUN	30	14	17	17	36.30N	9.90W		3.3 (2)	3.3	—	—	—	7		W.GIBRALTAR	MEZ
1979	JUL	4	14	24	51	34.05N	6.92W	43	3.9 (2)	4.0	4.2	—	4MK	13		RABAT. MO	ISC,MEZ
1979	JUL	5	5	48	8	32.83N	5.15W	6	3.7 (2)	3.7	3.5	—	4MK	9		IFRANE. MO	ISC
1979	JUL	5	11	46	6	32.82N	5.21W		3.7 (2)	3.8	—	—	—	7	A	BOUMIA. MO	ISC,MEZ
1979	JUL	5	23	32	52	35.37N	5.26W		3.8 (2)	3.9	—	—	—	9		MESRAH. MO	ISC,MEZ
1979	JUL	11	2	53	36	32.83N	5.23W	5	3.1 (2)	3.1	3.1	—	—	5	A	BOUMIA. MO	ISC
1979	JUL	22	21	31	9	32.92N	5.24W		3.1 (2)	3.1	—	—	—	5		AIT OTHMANE. MO	ISC,MEZ
1979	JUL	25	22	28	20	36.54N	1.60W	20	3.6 (2)	3.6	—	—	3MK	6		MEDITERRANEAN	ISC,MEZ
1979	JUL	26	9	21	54	31.57N	4.72W	20	4.4 (2)	4.6	—	—	—	7		GOULMINA. MO	ISC,MEZ
1979	JUL	28	2	44	43	31.60N	4.70W		3.1 (2)	3.0	—	—	—	3	A	GOULMINA. MO	SPG
1979	JUL	30	0	55	25	37.17N	3.69W	10	3.4 (1)	—	3.7	—	6MK	26		ALHENDIN. SP	ISC

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1979	JUL	31	21	43	18	37.14N	3.73W	6	3.3	(1)	—	3.9	3.7	6MK	21	A	ZUBIA. SP	ISC
1979	AUG	3	14	4	8	36.94N	3.70W	5	3.1	(3)	—	3.2	3.2	4MK	7		GRANADA. SP	ISC
1979	AUG	5	19	38	23	32.89N	5.03W		3.3	(2)	3.3	—	—	—	4		BOUMIA. MO	ISC
1979	AUG	6	22	15	21	33.93N	4.24W	5	3.4	(2)	3.4	3.6	—	—	6		BLMKOUD. MO	ISC
1979	AUG	7	23	17	31	31.91N	6.53W		3.3	(2)	3.3	—	—	—	4		AIT MHAMED. MO	ISC,MEZ
1979	AUG	9	11	46	39	37.48N	3.82W	10	3.1	(3)	—	3.2	3.2	5MK	7		PINOS PUENTE. SP	ISC
1979	AUG	9	12	47	58	36.53N	3.36W	5	3.2	(3)	—	—	3.3	4MK	7		GRANADA. SP	MDD
1979	AUG	9	13	57	1	35.33N	4.61W		3.0	(2)	2.9	—	—	—	4		TARGUIST. MO	ISC,MEZ
1979	AUG	10	5	2	42	36.73N	2.93W	5	3.1	(2)	3.1	—	3.1	—	5		BALERMA. MO	MEZ,MDD
1979	AUG	17	18	48	27	31.63N	4.89W		3.5	(2)	3.5	—	—	—	5		NEKHAL MHERI. MO	ISC,MEZ
1979	AUG	19	4	27	41	37.05N	3.69W	5	3.4	(3)	—	—	3.4	5MK	5		W.GRANADA. SP	ISC
1979	SEP	6	18	13	32	36.82N	9.51W	10	3.3	(2)	3.3	—	3.3	—	28		SW.C.ST. VINCENT	ISC,MEZ
1979	SEP	10	2	9	2	31.60N	5.84W		3.1	(2)	3.1	—	—	—	4	F	TILMI. MO	ISC,MEZ
1979	SEP	10	4	24	29	31.77N	6.00W		3.5	(2)	3.5	—	—	—	4		E.AZILAL. MO	ISC
1979	SEP	13	17	45	9	31.47N	5.75W	47	4.4	(2)	4.6	—	—	—	15		N.BOULMANE. MO	ISC,MEZ
1979	SEP	14	15	34	36	31.42N	5.75W		3.8	(2)	3.9	—	—	—	4	A	N.BOULMANE. MO	ISC,MEZ
1979	SEP	15	6	11	34	36.68N	1.41E		3.6	(2)	3.6	—	3.6	6MK	12		MEDITERRANEAN	ISC,MEZ,HHB
1979	SEP	19	19	33	31	37.01N	4.06W	10	3.7	(3)	—	—	3.8	—	16		ALHAMA. SP	ISC
1979	SEP	19	22	43	3	36.93N	2.45W	24	3.6	(2)	3.6	—	3.6	—	12		ALMERIA. SP	ISC,MEZ
1979	SEP	20	1	18	47	32.30N	5.30W		3.5	(2)	3.5	—	—	—	—		ARBALA. MO	MEZ
1979	SEP	20	22	8	46	32.52N	2.22W		3.7	(2)	3.7	—	—	—	7		BOUREK. MO	ISC,MEZ
1979	SEP	20	23	14	54	32.72N	1.78W		3.7	(2)	3.7	—	—	—	6		DJ.GHALS. MO	ISC,MEZ
1979	SEP	25	19	6	54	33.42N	3.82W		3.1	(2)	3.0	—	—	—	4		KRAKER. MO	ISC,MEZ
1979	OCT	6	23	48	13	31.10N	5.10W		3.1	(2)	3.0	—	—	—	3		BOU ANGUER. MO	SPG
1979	OCT	11	21	53	24	35.10N	7.10W		3.0	(2)	2.9	—	—	—	3		ATLANTIC	SPG
1979	OCT	16	13	1	54	36.77N	8.02W	54	3.6	(2)	3.6	—	3.6	3MK	24		W.GIBRALTAR	ISC,MEZ
1979	OCT	22	10	21	47	37.11N	4.55W	10	3.7	(3)	—	—	3.8	—	16		W.ANTEQUERA. SP	ISC
1979	OCT	24	13	9	50	32.56N	7.20W		3.6	(2)	3.6	—	—	—	4		OULED MOUSSA. MO	ISC,MEZ
1979	NOV	8	3	1	0	35.00N	4.30W		3.0	(2)	2.9	—	—	—	2		TARGUIST. MO	SPG
1979	NOV	8	4	15	12	34.79N	5.30W		3.1	(2)	3.1	—	—	—	4		BAB TAZA. MO	ISC,MEZ
1979	NOV	11	6	7	0	33.20N	0.10W		3.5	(2)	3.5	—	—	—	3		E.MECHERIA. AL	SPG
1979	NOV	25	1	56	26	36.86N	3.73W	22	3.4	(2)	3.4	—	3.4	6MK	22		SIER.CHAPARRAL. SP	ISC,MEZ
1979	NOV	29	15	58	3	35.40N	9.10W		3.1	(2)	3.1	—	—	—	4		W.GIBRALTAR	SPG
1979	NOV	30	20	59	20	35.70N	9.00W		3.1	(2)	3.1	—	—	—	6	A	W.GIBRALTAR	SPG
1979	DEC	2	11	4	0	36.51N	4.86W	60	3.1	(2)	3.0	—	3.0	—	11	F	ALBORAN	ISC,MEZ
1979	DEC	8	4	51	44	36.76N	4.97W	24	3.7	(2)	3.8	—	3.8	—	15		YUNQUERA. SP	ISC,MEZ
1979	DEC	9	8	11	56	35.00N	4.40W		3.1	(2)	3.0	—	—	—	3		TARGUIST. MO	SPG
1979	DEC	9	9	57	40	34.50N	3.70W		3.1	(2)	3.0	—	—	—	3		E.KITANE. MO	SPG
1979	DEC	21	20	28	59	36.84N	4.18W	76	3.4	(1)	3.5	—	3.5	3MK	27		COMARES. SP	ISC,MEZ
1979	DEC	22	23	45	10	37.11N	4.39W	68	3.3	(1)	—	—	4.0	—	21	A	ANTEQUERA. SP	ISC
1979	DEC	27	0	37	29	32.86N	5.14W		3.5	(2)	3.5	—	—	—	6		BOUMIA. MO	ISC,MEZ
1979	DEC	28	19	37	56	35.90N	9.70W		3.0	(2)	2.9	—	—	—	5		W.GIBRALTAR	SPG
1980	JAN	9	14	54	47	36.29N	8.78W	5	3.2	(2)	3.2	—	—	—	6		SE.C.ST. VICENTE	MEZ,SPG
1980	JAN	16	21	39	53	35.58N	1.36W	10	3.7	(2)	3.8	—	—	5MK	23		SW. CAP FIGALO. AL	ISC,MEZ,HHB
1980	JAN	29	3	18	35	36.29N	7.91W	10	4.3	(2)	4.4	—	—	—	22		SE.C.ST. VICENTE	ISC,MEZ
1980	FEB	10	3	39	39	35.26N	4.73W	10	3.2	(2)	3.2	4.0	—	—	19		NW.P.PESCADORES. MO	ISC,MEZ
1980	FEB	10	6	18	36	36.20N	7.67W	100	3.5	(2)	3.5	—	—	—	16		GULF CADIZ	ISC,MEZ
1980	MAR	9	5	21	42	36.68N	1.64E	33	3.5	(2)	3.5	—	—	—	16		SOUK ETHENINE. AL	ISC,MEZ

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1980	MAR	12	3	7	17	36.39N	7.10W	920	3.3 (2)	3.3	—	—	—	11		STRT.GIBRALTAR	ISC,MEZ
1980	MAR	25	10	58	27	36.59N	2.18W	5	3.8 (2)	3.9	—	—	—	—		ALBORAN	MEZ
1980	MAR	26	5	53	18	36.84N	7.97W	10	3.7 (2)	3.7	—	—	—	—		S.FAO. PO	MEZ
1980	APR	20	14	18	44	34.92N	4.88W	5	3.5 (2)	3.5	—	—	—	9		TAINZA. MO	ISC,MEZ
1980	MAY	9	9	21	33	35.78N	1.24E	10	3.9 (1)	4.2	—	3.9	—	55		AMMI MOUSSA. AL	ISC,MEZ
1980	MAY	23	6	14	28	37.27N	7.42W	30	3.3 (1)	—	4.0	—	5MK	24		GULF CADIZ. PO	ISC
1980	MAY	29	3	10	7	36.98N	8.99W	5	3.5 (2)	3.5	—	—	—	12		ATLANTIC	ISC,MEZ
1980	MAY	30	16	32	57	36.87N	3.14W	11	3.9 (2)	4.0	—	—	4MK	16		ALBUNOL. MO	ISC,MEZ
1980	JUN	1	20	18	25	35.32N	4.58W	5	3.2 (2)	3.2	—	—	—	7		N.CABO QUILATES	ISC,MEZ
1980	JUN	7	8	13	28	36.36N	9.36W	5	3.5 (2)	3.5	—	—	—	8		SW.C.ST. VICENTE	ISC,MEZ
1980	JUN	12	19	42	50	36.86N	3.35W	5	3.1 (2)	3.1	—	—	—	—		ORJIVA. GR	MEZ
1980	JUN	14	10	54	45	35.27N	4.61W	5	3.1 (2)	3.0	—	—	—	6		ALBORAN	ISC,MEZ
1980	JUN	16	6	7	8	36.33N	3.34W	5	3.4 (2)	3.4	—	—	—	—		ALBORAN	MEZ
1980	JUN	22	7	23	2	35.42N	4.79W	105	3.2 (2)	3.2	—	—	—	6		ALBORAN	ISC,MEZ
1980	JUN	22	23	18	33	35.96N	5.23W	81	4.4 (1)	4.7	—	—	4MK	126		CEUTA. MO	ISC,MEZ
1980	JUL	24	15	53	16	36.73N	3.94W	5	3.3 (2)	3.3	—	—	—	—		NERJA. MO	MEZ
1980	AUG	3	1	6	8	36.41N	7.84W	20	3.3 (2)	3.3	—	—	—	11		GULF CADIZ	ISC,MEZ
1980	AUG	6	23	58	8	35.15N	5.83W	5	3.2 (2)	3.2	—	—	—	7		LARACHE. MO	ISC,MEZ
1980	AUG	21	10	23	14	36.39N	2.90W	5	3.1 (2)	3.0	—	—	—	—		ALBORAN	MEZ
1980	AUG	28	4	52	35	35.89N	7.00W	5	3.1 (2)	3.0	—	—	—	8		GULF CADIZ	ISC,MEZ
1980	SEP	17	3	18	8	36.70N	6.90E		3.6 (2)	3.6	—	—	—	—		PHILLIPEVILLE. AL	MEZ
1980	SEP	17	18	51	32	32.84N	5.13W		3.9 (2)	4.0	—	—	—	4		ITZER. MO	ISC
1980	SEP	27	19	39	11	36.59N	3.07W	10	4.2 (2)	4.3	—	—	4MK	9		ADRA. SP	ISC,MEZ
1980	OCT	10	12	25	22	36.16N	1.40E	8	7.5	6.3	7.3	—	10MK	514 *		ECH-CHELIFF. AL	ISC,MEZ,YOD
1980	OCT	10	12	37	8	36.32N	1.55E	7	4.9 (1)	5.6	—	—	—	160 A		ATTAF. AL	ISC,MEZ,YOD
1980	OCT	10	14	12	27	36.15N	1.39E	16	4.2 (1)	4.7	—	—	—	76 A		ECH-CHELIFF. AL	ISC,MEZ
1980	OCT	10	14	44	51	36.30N	1.45E	8	4.6	5.4	—	—	—	272 A		ATTAF. AL	ISC,MEZ,YOD
1980	OCT	10	15	18	46	36.04N	1.53E	10	3.7 (2)	3.8	—	—	—	8 A		ATTAF. AL	ISC,MEZ
1980	OCT	10	15	25	36	36.07N	1.34E	10	4.2 (1)	4.6	—	—	—	79 A		OULBEN A.KADER. AL	ISC,MEZ
1980	OCT	10	15	36	53	36.41N	1.70E	10	4.2 (1)	4.8	—	—	—	91 A		SOUK THENINE. AL	ISC,MEZ
1980	OCT	10	15	39	8	36.25N	1.61E	3	6.1	6.0	6.1	—	—	433 A		ATTAF. AL	ISC,MEZ,YOD
1980	OCT	10	17	15	17	36.39N	1.65E	10	3.8 (1)	3.9	—	—	—	42 A		GOURAYA. AL	ISC,MEZ
1980	OCT	10	17	18	36	36.31N	1.56E	5	4.1 (2)	4.2	—	—	—	11 A		ATTAF. AL	ISC,MEZ
1980	OCT	10	17	32	59	36.13N	1.40E	10	4.8	5.4	5.0	—	—	301 A		ECH-CHELIFF. AL	ISC,MEZ,YOD
1980	OCT	10	19	7	59	36.40N	1.62E	5	4.5	5.4	—	—	—	266 A		SOUK EL THENINE. AL	ISC,MEZ,YOD
1980	OCT	10	20	22	41	36.51N	1.52E	10	4.1 (1)	4.5	—	—	—	59 A		GOURAYA. AL	ISC,MEZ
1980	OCT	10	21	18	18	36.26N	1.72E	10	4.0 (2)	4.1	—	—	—	21 A		BOUZGHAIA. AL	ISC,MEZ
1980	OCT	10	23	55	33	36.20N	1.83E	10	3.4	4.2	—	—	—	28 A		KHERBA. AL	ISC,MEZ
1980	OCT	10	23	59	58	36.24N	1.37E	10	3.4	3.9	—	—	—	49 A		BOUZGHAIA. AL	ISC
1980	OCT	11	0	34	52	36.82N	1.21E	5	4.0 (2)	4.1	—	—	—	6 A		BDJ.BOUNAAMA. AL	ISC,MEZ
1980	OCT	11	1	29	16	36.31N	1.52E	10	3.2	4.1	—	—	—	70 A		BENARIA. AL	ISC,MEZ
1980	OCT	11	5	40	55	36.35N	1.64E	10	4.0	4.6	—	—	—	163 A		SOUK THENINE. AL	ISC,MEZ
1980	OCT	11	17	11	48	36.21N	1.73E	24	3.7 (2)	3.7	—	—	—	12 A		KHERBA. AL	ISC,MEZ
1980	OCT	11	19	3	33	36.33N	1.71E	10	4.1 (2)	4.2	—	—	—	53 A		KHERBA. AL	ISC,MEZ
1980	OCT	11	21	26	18	36.41N	1.50E	10	3.7	4.6	—	—	—	132 A		SOUK THENINE. AL	ISC,MEZ
1980	OCT	12	0	36	49	36.34N	1.64E	10	3.8 (2)	3.9	—	—	—	30 A		SOUK THENINE. AL	ISC,MEZ
1980	OCT	12	4	2	15	36.31N	1.50E	20	3.6	4.2	—	—	—	82 A		ATTAF. AL	ISC,MEZ
1980	OCT	13	6	37	38	36.31N	1.59E	2	5.2	5.2	5.2	—	—	315 A		SOUK THENINE. AL	ISC,MEZ,YOD

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1980	OCT	13	14	33	41	36.33N	1.66E	5	3.6	5.0	—	—	—	145	A	KHERBA. AL	ISC,MEZ
1980	OCT	13	20	13	39	35.73N	4.38W	10	4.1 (2)	4.2	—	—	3MK	16		ALBORAN	ISC,MEZ
1980	OCT	13	20	26	39	36.01N	1.41E	10	3.8 (2)	3.9	—	—	—	17	A	ECH-CHELIFF. AL	ISC,MEZ
1980	OCT	14	1	7	37	36.31N	1.43E	10	3.9 (2)	4.0	—	—	—	14	A	KHERBA. AL	ISC,MEZ
1980	OCT	14	17	34	57	36.35N	1.68E		4.4	5.1	—	—	—	222	A	BENI HAOUA. AL	ISC,MEZ
1980	OCT	15	3	17	23	36.41N	1.58E	12	3.8	4.5	—	—	—	128	A	SOUK THENINE. AL	ISC,MEZ
1980	OCT	15	6	32	25	36.39N	1.59E	10	3.7 (2)	3.8	—	—	—	21	A	CHERCHELL. AL	ISC,MEZ
1980	OCT	15	18	29	11	36.10N	1.36E	10	3.9 (2)	4.0	—	—	—	36	A	LAMARTINE. AL	ISC,MEZ
1980	OCT	19	21	47	21	35.85N	1.32E	10	3.8	4.4	—	—	—	108	A	BDJ.BOUNAAMA. AL	ISC,MEZ
1980	OCT	20	7	46	48	36.81N	7.56W	10	3.4 (2)	3.4	—	—	—	8		GULF CADIZ	ISC,MEZ
1980	OCT	21	16	50	51	36.39N	1.71E	10	4.0 (1)	4.6	—	—	—	54	A	BENARIA. AL	ISC,MEZ
1980	OCT	22	16	23	13	36.49N	1.50E	4	4.2	5.0	—	—	—	187	A	LES HEUMIS. AL	ISC,MEZ
1980	OCT	23	9	57	55	36.56N	1.54E	10	4.3	4.5	—	—	—	138	A	SOUK THENINE. AL	ISC,MEZ
1980	OCT	24	12	57	59	36.39N	1.80E	10	3.2 (1)	—	—	—	—	18	A	SOUK THENINE. AL	ISC,MEZ
1980	OCT	26	2	28	9	36.54N	1.60E	10	3.7	4.5	—	—	—	78	A	BENI HAOUA. AL	ISC,MEZ
1980	OCT	29	1	30	9	36.41N	1.77E	10	4.1 (2)	4.2	—	—	—	41	A	N. BENI HAOUA. AL	ISC,MEZ
1980	OCT	30	23	38	11	36.36N	1.65E	1	4.6	5.3	—	—	—	280	A	SOUK THENINE. AL	ISC,MEZ
1980	NOV	8	2	6	58	36.56N	1.59E	10	4.6	4.6	—	—	—	178	A	MEDITERRANEAN	ISC,MEZ
1980	NOV	8	7	54	17	36.12N	1.38E	4	4.9	5.4	5.6	—	—	305	A	OUED FODDA. AL	ISC,MEZ,YOD
1980	NOV	10	0	1	48	36.54N	1.38E	10	4.1	4.9	—	—	—	135	A	TENES. AL	ISC,MEZ
1980	NOV	11	10	59	45	37.75N	5.30W	10	3.0 (1)	—	—	—	—	15		PALMA. SP	ISC
1980	DEC	3	10	31	19	36.48N	1.60E	5	4.8	4.8	—	—	—	199	A	SOUK THENINE. AL	ISC,MEZ
1980	DEC	3	22	16	24	36.94N	5.60W	12	4.2 (2)	4.3	—	—	5MK	43		VILLAMARTIN. SP	ISC,MEZ
1980	DEC	5	13	32	4	35.97N	1.34E	5	4.9	5.1	5.0	—	—	270	A	OULBEN A.KADER. AL	ISC,MEZ
1980	DEC	7	17	37	8	36.06N	1.30E	5	5.7	5.3	5.7	—	—	320	A	OULBEN A.KADER. AL	ISC,MEZ
1980	DEC	8	4	7	10	36.06N	1.15E	7	3.9 (1)	4.0	—	4.0	—	45	A	BOU KADIR. AL	ISC,MEZ
1980	DEC	8	6	51	21	35.93N	2.22W	10	4.3	3.8	—	—	4MK	55		ALBORAN	ISC,MEZ
1980	DEC	14	17	33	19	36.50N	4.91W	9	3.2 (2)	3.2	—	—	—	8		MARBELLA. SP	ISC,MEZ
1980	DEC	21	0	59	32	36.34N	7.58E	10	4.4 (2)	4.6	—	—	4MK	26		N.SOUK AHRAS. AL	ISC,MEZ,HHB
1980	DEC	24	12	47	29	35.74N	1.41E	10	4.2	4.3	—	—	—	48	A	E.AMMI MOUSSA. AL	ISC,MEZ
1980	DEC	25	8	46	32	35.54N	1.37E	10	3.1 (1)	—	—	—	—	16	A	SW.AMMI MOUSSA. AL	ISC,MEZ
1980	DEC	31	2	25	11	36.08N	1.30E	15	4.3 (1)	4.7	—	—	—	115	A	ECH-CHELIFF. AL	ISC,MEZ
1981	JAN	1	15	55	33	36.27N	1.66E	15	3.2 (1)	—	—	—	—	20	A	EL-ABADIA. AL	ISC
1981	JAN	15	4	25	15	36.37N	1.65E	14	4.6	5.2	—	—	—	199	A	AIN AOURIR. AL	ISC
1981	JAN	15	7	29	55	36.47N	1.42E	10	4.1 (2)	4.2	—	—	—	15	A	S. BENI HAOUA. AL	ISC
1981	JAN	17	21	4	25	33.89N	8.13E	10	4.5 (2)	4.7	—	—	—	33		TOZEUR. TU	ISC
1981	JAN	17	23	45	58	36.48N	1.58E	5	3.7 (1)	4.0	—	—	—	40	A	S. DAMOUS. AL	ISC
1981	JAN	18	12	40	31	36.22N	2.04E	32	3.2 (1)	—	—	—	—	19		KHEMIS MELIANA. AL	ISC
1981	JAN	20	1	25	12	36.22N	1.65E	32	3.9	4.5	—	—	—	72	A	EL-ATTAF. AL	ISC
1981	JAN	21	20	38	34	37.08N	4.79W	1	3.1 (1)	—	4.0	—	—	16		OSUNA. SP	ISC
1981	JAN	22	21	29	39	37.09N	2.79W	9	3.3 (1)	—	4.0	—	5MK	24		BERJA. SP	ISC
1981	JAN	25	5	18	6	36.92N	4.91W	7	3.4 (1)	—	4.6	—	3MK	26		ABDALAGIS. SP	ISC
1981	JAN	31	16	29	55	36.39N	1.66E	16	4.6	4.7	—	—	—	164	A	N.ABADIA. AL	ISC
1981	JAN	31	18	3	48	36.36N	1.70E	19	3.9	4.8	—	—	—	153	A	N.ABADIA. AL	ISC
1981	JAN	31	18	31	53	36.22N	2.07E	14	3.7 (2)	3.7	—	—	—	25		E.AIN DEFLA. AL	ISC

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LOX	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1981	JAN	31	19	25	17	36.46N	1.61E	15	3.9 (2)	4.0	—	—	—	22	A	S.BENI HAOUA. AL	ISC
1981	JAN	31	20	43	52	36.46N	1.59E	12	3.9 (1)	4.3	—	—	—	51	A	S.BENI HAOUA. AL	ISC
1981	FEB	1	13	19	58	36.43N	1.68E	1	5.4	5.5	5.7	—	—	266	A	S.DAMOUS. AL	ISC
1981	FEB	1	20	58	27	36.33N	1.74E	30	3.8 (2)	3.9	—	—	—	24	A	NE.ABADIA. AL	ISC
1981	FEB	1	22	21	19	36.52N	1.21E	10	3.9 (2)	4.0	—	—	—	18	A	CAP. KALAH. AL	ISC
1981	FEB	1	23	0	40	36.45N	1.70E	13	4.6 (1)	4.9	—	—	—	159	A	S.DAMOUS. AL	ISC
1981	FEB	2	19	2	5	36.43N	1.56E	25	4.1 (2)	4.2	—	—	—	33	A	S.BENI HAOUA. AL	ISC
1981	FEB	5	9	12	31	36.40N	1.53E	15	4.5	4.8	—	—	—	138	A	ECH-CHELIFF. AL	ISC
1981	FEB	10	4	43	4	35.90N	1.15E	33	3.2 (1)	—	—	—	—	18	A	S. OUED SLY. AL	ISC
1981	FEB	14	7	46	46	36.18N	9.01W	10	4.1 (1)	4.7	—	—	—	69		ATLANTIC	ISC
1981	FEB	14	7	55	31	36.11N	9.03W		3.4 (1)	—	—	—	—	25	A	ATLANTIC	ISC
1981	FEB	14	8	32	18	36.16N	9.04W	10	4.1 (2)	4.2	—	—	—	38	A	ATLANTIC	ISC
1981	FEB	14	12	47	19	36.48N	5.93W	39	3.4 (1)	—	4.0	—	3MK	26		VEJERS. SP	ISC
1981	FEB	14	13	15	14	35.91N	1.27E	4	5.0	5.0	—	—	—	256	A	ECH-CHELIFF. AL	ISC
1981	FEB	18	15	28	4	36.42N	1.73E	33	3.0 (1)	—	—	—	—	13	A	N.ABADIA. AL	ISC
1981	FEB	20	20	41	5	35.85N	1.40E	13	3.7	3.8	—	—	—	67	A	EL-KARIMIA. AL	ISC
1981	MAR	1	4	22	24	35.83N	1.68E		4.0 (2)	4.1	—	—	—	12	A	AIN TIDOUINE. AL	ISC
1981	MAR	13	5	13	20	35.47N	3.89W	1	3.1 (1)	—	—	—	—	16		MEDITERRANEAN	ISC
1981	MAR	15	1	2	13	36.57N	1.65E		3.2 (1)	—	—	—	—	20	A	DAMOUS. AL	ISC
1981	MAR	18	21	28	24	36.42N	1.51E	20	3.3 (1)	—	—	—	—	23		NE.ZEBOUDJA. AL	ISC
1981	MAR	20	14	8	27	35.14N	4.14W	5	3.0 (1)	—	3.9	—	—	15		TARGUIST. MO	ISC
1981	MAR	21	23	44	37	36.35N	1.64E		3.1 (1)	—	—	—	—	17		N.ABADIA. AL	ISC
1981	MAR	29	8	57	55	36.70N	1.82E	12	3.8	4.8	—	—	—	163	A	MEDITERRANEAN	ISC
1981	MAR	29	14	14	46	36.70N	1.63E	10	3.9 (2)	4.0	—	—	—	29	A	MEDITERRANEAN	ISC
1981	APR	7	23	37	6	35.15N	4.04W	5	3.2 (1)	—	4.3	—	4MK	19		AL-HOCEIMA. MO	ISC
1981	APR	10	19	22	22	37.59N	4.67W	1	3.0 (1)	—	4.1	—	—	13		MONTILLA. SP	ISC
1981	APR	19	19	29	33	35.90N	0.59W	10	3.4 (1)	—	4.6	—	—	26		ORAN. AL	ISC
1981	APR	21	17	19	15	36.35N	1.58E	1	4.6 (2)	4.8	—	—	—	17		S.BENI HAOUA. AL	ISC
1981	MAY	1	7	20	50	36.31N	1.61E	16	4.1 (2)	4.2	—	—	—	19	A	N.ATTAF. AL	ISC
1981	MAY	13	15	52	23	36.41N	1.65E	10	3.7 (2)	3.8	—	—	—	19	A	NE.ABADIA. AL	ISC
1981	MAY	14	18	44	32	36.18N	9.21W	30	3.3 (1)	—	4.3	—	—	21		SW. C.ST. VINCENT	ISC
1981	JUN	15	7	35	29	36.33N	1.54E	8	3.4	3.9	—	—	—	33		N.EL ATTAF. AL	ISC
1981	JUN	15	22	59	5	36.24N	1.71E	18	3.3	4.6	—	—	—	99		ABADIA. AL	ISC
1981	JUN	30	2	43	58	37.26N	3.05E	10	4.1 (2)	4.2	—	—	—	20		MEDITERRANEAN	ISC
1981	JUL	1	19	47	15	36.32N	1.56E	10	3.7 (2)	3.7	—	—	—	24		N.EL ATTAF. AL	ISC
1981	JUL	3	3	31	35	36.43N	4.61W	93	3.8 (2)	3.9	—	—	—	22		MARBELLA. SP	ISC
1981	JUL	5	19	50	10	35.39N	1.97E	1	3.1 (2)	3.0	—	—	—	11		N.AIN DEFLA. AL	ISC
1981	JUL	20	1	52	4	36.47N	8.11W	10	3.7 (2)	3.8	—	—	—	11		ATLANTIC	ISC
1981	JUL	22	14	54	0	36.66N	0.69E	10	3.5 (2)	3.5	—	—	—	10		MEDITERRANEAN	ISC
1981	AUG	20	23	53	54	36.70N	3.28W	30	3.4 (2)	3.4	—	—	—	—		GUADIX. SP	MDD
1981	AUG	28	4	4	43	37.67N	3.63W	1	3.4 (2)	3.4	—	—	—	1		ILLORA. SP	MDD
1981	SEP	6	7	20	53	36.28N	1.52E	16	4.1	4.3	—	—	—	71		N.OUED FODDA. AL	ISC
1981	SEP	6	8	26	40	36.36N	1.60E	33	4.2 (2)	4.3	—	—	—	16	A	S.BENI HAOUA. AL	ISC
1981	SEP	10	0	33	4	36.14N	1.24E	2	3.8 (2)	3.9	—	—	—	36		ECH-CHELIFF. AL	ISC
1981	SEP	10	20	32	57	37.32N	3.72W	1	3.3 (2)	3.3	—	—	—	3		ALHAMA. SP	MDD

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1981	SEP	18	0	38	56	37.82N	0.83W	5	3.8	(2)	3.9	3.9	—	4MK	6	LA UNION. MO	ISC	
1981	SEP	21	1	19	34	37.35N	3.75W	10	4.0	(2)	4.1	—	—	—	2	ILLORA. SP	MDD	
1981	SEP	21	16	14	42	37.18N	3.48W	5	3.9	(2)	4.0	—	—	3MK	2	A	GRANADA. SP	MDD
1981	SEP	25	9	23	50	36.42N	1.54E	1	4.4		4.8	—	—	—	134	NE.ZEBOUDIA. AL	ISC	
1981	SEP	27	1	38	5	36.47N	3.18W	2	3.8	(2)	3.9	—	—	—	11	MEDITERRANEAN	ISC	
1981	SEP	30	12	5	13	36.33N	7.42W	5	3.4	(2)	3.4	—	—	—	2	W.GIBRALTAR	MDD	
1981	OCT	5	12	26	21	37.25N	3.53W	5	3.9	(2)	4.0	—	—	—	3	GRANADA. SP	MDD	
1981	OCT	10	16	11	54	36.65N	2.95W	10	3.2	(2)	3.2	—	—	—	5	ADRA. SP	ISC	
1981	OCT	10	21	47	35	35.83N	1.43E	4	3.8	(2)	3.9	—	—	—	24	OUED FODDA. AL	ISC	
1981	OCT	12	2	13	56	36.95N	5.42W	10	3.9	(2)	4.0	—	—	—	15	MOTRIL. SP	ISC	
1981	NOV	3	8	41	8	36.30N	8.40W	10	4.6	(2)	4.8	—	—	—	9	ATLANTIC	ISC	
1981	NOV	15	13	13	50	36.91N	2.57W	10	3.0	(2)	2.9	—	—	—	4	BERJA. SP	ISC	
1981	NOV	21	17	44	20	36.81N	8.60W	20	3.7	(2)	3.8	—	—	—	12	ATLANTIC	ISC	
1982	JAN	18	18	42	21	36.16N	1.67W	5	3.2	(2)	3.2	—	—	—	5	EL-ATTAF. AL	ISC	
1982	JAN	30	19	2	35	36.35N	3.78W	10	3.1	(2)	3.1	—	—	—	5	ALBORAN	ISC	
1982	FEB	6	23	29	14	35.63N	3.96W	5	3.9	(2)	4.0	—	—	—	3	ALBORAN	MDD	
1982	FEB	9	0	15	49	37.00N	2.39E		3.0	(3)	—	—	3.1	—	6	MEDITERRANEAN	ISC	
1982	FEB	20	23	40	2	36.50N	3.01W	33	3.7	(2)	3.8	—	—	—	9	ALBORAN	ISC	
1982	FEB	26	8	24	14	37.68N	1.59W	21	3.7	(2)	3.8	3.6	—	3MK	12	LORCA. SP	ISC	
1982	MAR	1	4	30	0	33.81N	7.84E	33	4.2	(2)	4.3	—	—	—	33	SW. TUNISIA	ISC	
1982	MAR	2	16	40	22	35.03N	4.15W	10	3.9	(2)	4.0	3.4	—	—	9	TOR. ALCATA. MO	ISC	
1982	MAR	7	8	27	44	35.82N	0.57W	20	3.4	(2)	3.4	3.4	—	—	4	ARZEW. AL	MDD	
1982	MAR	7	16	25	55	36.67N	3.88W	5	3.7	(2)	3.7	3.7	—	4MK	9	ALBORAN	ISC	
1982	MAR	22	2	29	57	36.82N	3.46E		3.3	(1)	—	—	3.7	—	22	MEDITERRANEAN	ISC	
1982	APR	3	9	5	47	35.30N	3.86W	16	3.5	(2)	3.5	3.8	—	4MK	10	BAH.ALHUCCEM. MO	ISC	
1982	APR	5	0	56	39	37.06N	3.84W	18	3.7	(2)	3.8	3.8	—	—	4	ALHAMA. SP	ISC	
1982	APR	14	11	1	3	36.27N	4.42W	31	3.1	(2)	3.0	—	—	—	3	E.GIBRALTAR	MDD	
1982	APR	17	2	23	16	35.63N	7.04W	81	4.2	(2)	4.3	—	—	—	27	W.GIBRALTAR	ISC,NES	
1982	APR	19	8	9	10	36.12N	1.49E	10	3.7	(2)	3.7	—	—	—	30	KARIMIA. AL	ISC,NES	
1982	APR	19	13	18	49	34.26N	5.22W	15	3.6	(2)	3.6	4.2	—	—	11	KARIA MOHAMED. MO	ISC	
1982	MAY	18	13	15	24	34.51N	7.85E	10	3.5		4.0	—	—	—	14	BIR EL ATER. AL	ISC,NES	
1982	MAY	23	2	51	51	37.31N	2.51W	25	3.1	(2)	3.1	—	—	—	5	S.PURCHINA. SP	ISC	
1982	MAY	23	13	17	12	37.13N	3.63E	10	3.1	(1)	—	—	3.8	—	17	MEDITERRANEAN	ISC,NES	
1982	MAY	28	3	46	2	36.35N	3.21W		3.7	(2)	3.8	—	—	—	6	ALBORAN	ISC	
1982	JUN	9	2	41	51	37.08N	2.93W	43	3.2	(2)	3.2	—	—	—	3	BERJA. SP	MDD	
1982	JUN	12	4	39	31	35.64N	1.36E	2	3.8	(2)	3.9	—	—	—	27	HARDY. AL	ISC,NES	
1982	JUN	17	9	26	25	36.91N	6.33W	14	3.7	(2)	3.7	—	—	—	6	GULF CADIZ	ISC	
1982	JUN	25	12	0	39	36.75N	3.28W	5	3.8	(2)	3.9	—	—	3MK	18	BERJA. SP	ISC,NES	
1982	JUN	25	14	43	49	37.22N	2.70W	31	3.4	(2)	3.4	—	—	—	5	ALBA. SP	ISC	
1982	SEP	10	22	25	8	35.67N	1.37E	12	3.5	(1)	—	3.7	—	—	29	F	HARDY. AL	ISC,NES
1982	SEP	11	4	48	39	35.60N	1.32E	17	4.2		4.5	—	—	—	100	F	W.HARDY. AL	ISC,NES
1982	SEP	11	21	35	50	36.36N	1.68E	19	4.2		4.9	—	—	—	206		N.ABADIA. AL	ISC,NES
1982	SEP	11	21	40	9	36.06N	2.28E	10	4.3	(2)	4.5	—	—	—	27	A	S.KHEMIS MILIANA. A	ISC,NES
1982	SEP	22	18	2	45	36.21N	1.93E	25	3.2	(1)	—	—	—	—	18	A	AIN DEFLA. AL	ISC,NES
1982	SEP	22	20	36	50	36.55N	7.67W	10	3.3	(1)	—	3.3	—	—	23		SE. C.ST. VINCENT	ISC,NES

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

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YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1982	OCT	3	8	34	50	37.13N	5.44W	10	3.1 (1)	—	3.9	—	—	17		S.MO.FRONTIERA. SP	ISC,NES
1982	OCT	21	0	59	6	36.09N	1.31E	7	4.3 (2)	4.4	—	—	—	53		BOU KADIR. AL	ISC,NES
1982	OCT	22	2	14	41	36.96N	9.75W	20	3.0 (1)	—	3.5	—	—	13		ATLANTIC	ISC
1982	OCT	29	0	20	35	35.97N	1.60E	10	3.0 (1)	—	3.4	—	—	13		N.THENIET EL HAD. A	ISC,NES
1982	NOV	15	20	7	47	35.60N	1.34E	11	4.8	5.0	—	—	—	294		HARY. AL	ISC,NES
1982	DEC	1	6	21	6	36.79N	3.22E	20	4.1 (1)	4.3	4.0	—	—	57		BORDJ EL BAHRI. AL	ISC,NES
1982	DEC	28	19	29	36	36.44N	7.83W	10	3.3 (1)	—	4.1	—	—	23		SE C. ST. VINCENT	ISC
1982	DEC	31	5	23	48	36.46N	2.12W	6	3.0 (1)	—	4.2	—	—	13		ALBORAN	ISC
1983	JAN	5	5	20	16	36.58N	2.20W	13	3.0 (1)	—	3.4	—	—	14	F	ALBORAN	ISC,NES
1983	JAN	6	21	55	55	36.63N	2.23W	17	4.2 (1)	5.0	4.8	—	3MK	65		ALBORAN	ISC,NES
1983	JAN	12	10	8	17	36.52N	2.15W	10	3.3 (1)	—	4.3	—	3MK	24		ALBORAN	ISC,NES
1983	JAN	12	18	40	19	36.61N	7.47W	33	3.4 (1)	—	—	—	—	25		ATLANTIC	ISC
1983	JAN	20	21	52	18	36.30N	2.55W	10	3.0 (1)	—	3.4	—	—	13	F	ALBORAN	ISC,NES
1983	JAN	21	9	10	1	36.47N	2.16W	9	3.2 (1)	—	4.2	—	—	19		ALBORAN	ISC,NES
1983	JAN	26	3	21	3	35.88N	7.47W	33	3.5 (1)	—	3.4	—	—	29		ATLANTIC	ISC,NES
1983	FEB	8	8	8	14	37.06N	5.25W	10	3.4 (1)	—	4.1	4.0	—	25		OLVERA. SP	ISC,NES
1983	FEB	27	10	50	36	36.54N	2.26W	14	3.1 (1)	—	4.1	—	—	17		ALBORAN	ISC,NES
1983	FEB	27	10	58	56	36.54N	2.28W	12	3.1 (1)	—	3.9	—	—	16	A	ALBORAN	ISC,NES
1983	MAR	9	16	59	24	36.69N	6.65W	10	3.0 (1)	—	2.8	—	—	14		GULF CADIZ	ISC
1983	MAR	20	6	59	10	36.48N	2.14W	11	4.5 (2)	4.7	—	—	4MK	51		ALBORAN	ISC,NES
1983	MAR	21	21	12	51	36.59N	2.24W	17	3.0 (1)	—	3.5	—	—	14	A	ALBORAN	ISC,NES
1983	JUL	24	17	14	13	36.52N	8.00W	61	4.3 (2)	4.4	—	—	—	42		W.GIBRALTAR	ISC,NES
1983	AUG	12	5	34	36	35.63N	1.80E	30	3.0 (1)	—	3.6	—	—	15		S.THENIET EL HAD. A	ISC
1983	AUG	19	19	24	4	36.09N	7.32W	69	3.3 (1)	—	4.0	—	—	21		W.GIBRALTAR	ISC
1983	AUG	27	16	7	33	35.92N	1.46E	10	3.1 (1)	—	3.8	—	—	17		E. OUED RHIU. AL	ISC,NES
1983	SEP	13	10	12	13	36.87N	7.53W	10	3.0 (1)	—	3.4	—	—	15		GULF CADIZ	ISC,NES
1983	SEP	20	8	39	13	34.69N	5.55W	51	4.3 (2)	4.5	4.5	—	—	29		N.OUEZZANE. SP	ISC,NES
1983	SEP	20	19	59	29	36.40N	9.43W	26	3.1 (1)	—	3.9	—	—	16		ATLANTIC	ISC
1983	SEP	28	9	7	44	36.03N	3.33E	21	3.1 (1)	—	3.1	—	—	17		DJ. DIRA. AL	ISC
1983	OCT	7	3	6	39	37.18N	7.53W	20	3.1 (1)	—	3.7	3.7	4MK	16		AYAMONTE. PO	ISC,NES
1983	OCT	12	17	44	23	37.17N	9.18W	10	3.4 (1)	—	3.8	—	—	25		ATLANTIC	ISC,NES
1983	NOV	1	2	2	14	36.54N	5.44E	10	3.9 (3)	—	—	4.1	—	12		E.KHERRATA. AL	ISC,NES
1983	NOV	24	20	55	40	34.70N	4.54W	78	4.3 (1)	4.7	4.6	—	4MK	98		TAHAR SOUK. MO	ISC,NES
1983	DEC	7	21	52	14	36.90N	2.82E	10	3.2 (1)	—	3.8	—	—	18		STAOUELLAL	ISC,NES
1983	DEC	20	20	39	4	36.62N	6.61E	10	4.4 (2)	4.6	—	—	4MK	30		N.EL HARROUCH. AL	ISC,NES
1984	JAN	3	7	25	43	36.48N	10.00W	5	3.0 (1)	—	3.5	—	—	15		SW.C.ST. VINCENT	ISC,MDD,CHK
1984	JAN	18	11	11	56	35.79N	4.82E	10	4.2 (2)	4.3	4.1	—	—	14		ALBORAN	ISC,NES,MDD
1984	FEB	16	19	1	2	37.53N	6.34W	5	3.0 (1)	—	3.9	—	—	14		SEVILLA. SP	ISC,MDD
1984	MAR	15	19	0	39	34.16N	8.07E	48	3.8	4.6	—	—	—	133		METLAOUI. TU	ISC,MOS,NES,CSM
1984	MAR	31	3	31	53	36.45N	1.63E	6	3.6	4.7	4.6	4.2	—	105	F	S.BENI HAOUA. AL	ISC,NES,MOS,CSM,LDG
1984	MAR	31	4	45	30	36.46N	1.71E	11	3.8 (1)	4.8	3.7	4.1	—	47		S.DAMOUS. AL	ISC,NES,CSM,LDG,HFS
1984	APR	1	0	34	21	36.89N	1.56E	10	3.7 (2)	3.7	3.8	3.8	—	21	A	N.ABADIA. AL	ISC,NES,LDG,CSM,MDD
1984	JUN	15	23	2	48	36.50N	1.57E	10	3.9	—	4.5	4.0	—	73		S.BENI HAOUA. AL	ISC,NES,CSM,MOS,LDG
1984	JUN	18	15	31	42	36.69N	5.26W	17	3.0 (1)	—	3.3	—	3MK	15		E.RONDA. SP	ISC,MDD
1984	JUN	24	14	30	51	37.01N	3.69W	10	4.6	4.9	5.0	4.7	6MK	148		ALMUNECAR. SP	ISC,MOS,LDG,MDD,CSM

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M ₅	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1984	JUN	28	22	35	21	38.05N	0.47W	28	3.1 (1)	—	3.6	—	3MK	16		TORRIEVEJA. SP	ISC,NES,MDD
1984	JUL	8	21	24	20	36.29N	6.06W	5	3.1 (1)	—	3.7	3.7	—	17		W.GIBRALTAR	ISC,MDD,LDG
1984	JUL	14	20	5	1	36.31N	6.46W	44	3.1 (1)	—	3.2	—	—	16	A	W.STR.GIBRALTAR	ISC,MDD
1984	JUL	16	23	17	34	34.57N	4.04W	54	3.0 (1)	—	3.6	—	—	14		TIZI OUZLI. MO	ISC,MDD
1984	JUL	18	22	14	35	36.68N	9.07W	8	3.0 (1)	—	3.2	—	—	15		ATLANTIC	ISC,MDD
1984	SEP	2	0	18	31	34.28N	4.02W	11	3.2 (1)	—	4.2	—	—	18		BAB MROUJ. MO	CHK
1984	SEP	12	13	53	41	37.02N	2.35W	10	3.6 (3)	—	4.1	3.8	4MK	20	F	SIER.ALHAMILLA. SP	ISC,LDG,NES,CSM,MDD
1984	SEP	13	4	34	9	37.07N	2.40W	10	4.0	4.7	5.0	4.4	5MK	62		SIER.ALHAMILLA. SP	ISC,NES,MDD,CSM,LDG
1984	SEP	13	9	8	5	37.11N	2.39W	10	3.2 (1)	—	4.4	—	—	18	A	SIER.ALHAMILLA. SP	ISC,NES,MDD,CSM
1984	SEP	13	9	56	24	36.90N	2.35W	26	3.0 (1)	—	3.7	—	—	14	A	SIER.ALHAMILLA. SP	ISC,MDD
1984	SEP	13	11	40	2	37.08N	2.31W	10	3.3 (1)	—	4.2	—	—	24	A	SIER.ALHAMILLA. SP	ISC,NES,CSM,MDD
1984	SEP	13	12	3	48	37.12N	2.47W	5	3.1 (1)	—	4.2	—	—	16	A	SIER.ALHAMILLA. SP	ISC,NES,MDD,CSM
1984	SEP	28	3	2	0	36.85N	5.35W	20	3.0 (1)	—	3.5	—	—	14		ALCALA GAZULES. SP	ISC,MDD
1984	OCT	5	6	37	28	36.02N	6.84E	21	4.6 (2)	4.8	—	—	4MK	33		OULED RAHMOUN. AL	ISC,NES
1984	OCT	17	17	38	32	36.88N	3.12W	10	3.0 (1)	—	3.5	—	3MK	14		ADRA. SP	ISC,NES,MDD
1984	NOV	27	4	51	14	36.46N	5.86W	13	3.0 (1)	—	3.5	—	—	14		MEDINA SIDONIA. SP	CHK
1985	JAN	24	17	59	18	36.11N	3.05W	50	3.0 (1)	3.5	3.4	—	—	14		ALBORAN	ISC,NES,MDD,SPG
1985	JAN	29	9	38	32	36.67N	1.72W	34	3.3 (2)	3.3	—	—	—	7		MEDITERRANEAN	ISC,MDD
1985	FEB	12	20	51	0	37.17N	4.22W	5	3.0 (2)	2.9	—	—	—	2	A	ANTEQUERA. SP	MDD
1985	FEB	13	22	12	49	37.17N	4.19W	12	3.0 (2)	2.9	—	—	—F	3	A	E.ANTEQUERA. SP	MDD
1985	FEB	13	22	40	0	36.92N	4.03W	30	3.0 (2)	2.9	—	—	—	3	F	W.ALHAMA. SP	MDD
1985	FEB	13	23	38	3	37.13N	4.25W	5	3.1 (2)	3.0	—	—	—	5		LOJA. SP	ISC,MDD
1985	FEB	14	0	26	50	37.00N	4.10W	5	3.1 (2)	3.0	—	—	—	5	A	E.ANTEQUERA. SP	ISC,MDD
1985	FEB	14	1	1	43	37.13N	4.26W	17	3.2 (2)	3.2	—	—	—	10		W.LOJA. SP	ISC,MDD
1985	FEB	14	1	55	3	36.88N	4.03W	5	3.1 (2)	3.1	—	—	—	5	A	N. VELEZ MALAGA. SP	ISC,MDD
1985	FEB	14	12	28	17	37.19N	4.28W	1	3.5 (2)	3.5	—	—	—	9		SW. ANTEQUERA. SP	ISC,MDD
1985	FEB	14	17	42	17	37.02N	4.04W	5	3.1 (2)	3.0	—	—	—	7		E.MALAGA. SP	ISC,MDD
1985	FEB	15	7	34	53	37.15N	4.20W	9	3.1 (2)	3.0	—	—	—	5	A	LOJA. SP	MDD
1985	FEB	15	17	34	30	37.11N	4.13W	5	3.4 (2)	3.4	—	—	—	9	A	E.ANTEQUERA. SP	ISC,MDD
1985	FEB	15	23	56	8	37.20N	4.28W	5	3.5 (2)	3.5	—	—	—	9	A	LOJA. SP	ISC,MDD
1985	FEB	23	18	1	50	37.68N	4.18W	10	3.2 (2)	3.2	—	—	—	7		N.BAENA. SP	ISC,MDD
1985	FEB	24	3	36	33	37.27N	4.33W	5	3.5 (2)	3.5	—	—	—	12		W.LOJA. SP	ISC,LIS,MDD
1985	MAR	5	15	37	57	35.56N	1.43E	20	4.9	4.9	—	4.6	—	280		HARDY. AL	ISC,MOS,NEC,CSM,LDG
1985	MAR	6	22	36	4	36.83N	8.65W	7	3.5 (2)	3.5	3.1	—	—	12		ATLANTIC	ISC,NEC,LIS,MDD,SPG
1985	MAR	8	21	47	35	36.76N	3.06W	10	3.2 (2)	3.2	—	—	—	6		ADRA. SP	ISC,NEC,MDD
1985	MAR	15	8	55	12	36.67N	3.61W	9	3.0 (2)	2.9	—	—	—	5		ALBORAN	ISC,MDD
1985	MAR	18	23	51	51	37.37N	2.92W	5	3.3 (2)	3.3	—	—	—	5		NE.BERJA. SP	MDD
1985	MAR	30	2	14	1	36.55N	1.81E	14	3.2 (1)	3.5	—	3.5	—	18		SE.DAMOUS. AL	ISC,LDG,MDD
1985	APR	7	8	15	26	36.34N	6.23W	16	3.2 (1)	—	3.8	—	—	20		ATLANTIC	ISC,NEC,CSM,MDD,LIS
1985	APR	9	14	28	5	36.27N	6.26W	8	3.1 (1)	—	3.5	—	—	17		ATLANTIC	ISC,NEC,MDD,CSM,LIS
1985	APR	28	6	48	37	36.93N	7.59W	41	3.4 (1)	—	4.1	—	3MK	26		GULF CADIZ	ISC,LIS,CSM,MDD
1985	MAY	26	18	5	9	37.84N	4.69W	13	4.6	4.7	5.1	4.9	—	143		N.BAENA. SP	ISC,NEC,CSM,LDG,MOS
1985	MAY	26	19	7	41	37.84N	4.66W	10	3.5 (1)	—	4.5	—	—	33	A	N.BAENA. SP	ISC,NEC,CSM,MDD
1985	MAY	27	7	52	46	37.80N	4.69W	10	3.0 (1)	—	3.7	—	—	14	A	BAENA. SP	ISC,NEC,CSM,MDD
1985	JUN	2	16	47	48	36.91N	7.08W	87	3.0 (1)	—	3.1	—	—	15		GULF CADIZ	ISC,NEC,MDD

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	LOX	DEP	M _S	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES	
1985	JUN	27	16	56	43	36.18N	11.99E		4.0	(2)	4.1	—	—	—	17	MEDITERRANEAN	ISC	
1985	JUL	15	11	20	39	35.48N	1.22W	10	3.1	(1)	—	3.9	—	—	16	C.FIGALO. AL	ISC,NEC,MDD	
1985	JUL	19	2	1	25	36.96N	3.98E	10	3.6	(1)	4.0	4.0	3.8	—	32	DELLYS. AL	ISC,NEC,CSM,MDD,LDG	
1985	AUG	6	21	40	26	36.59N	8.61E	10	4.0	(3)	—	4.2	4.2	—	21	ATLANTIC	ISC,NEC,CSM,LDG,MDD	
1985	SEP	2	4	42	6	37.21N	3.52W	85	3.2	(1)	—	3.5	3.6	—	19	GRANADA. SP	ISC,NEC,LDG,MDD	
1985	SEP	7	9	51	33	36.05N	1.17E	11	4.0	(1)	4.7	4.4	4.2	—	67	SW.BOU KADIR. AL	ISC,NEC,MDD,CSM,LDG	
1985	SEP	10	20	57	7	35.84N	1.28E	24	3.7	(1)	4.0	4.0	3.8	—	42	OUED RHIU. AL	ISC,NEC,CSM,LDG,MDD	
1985	SEP	14	4	24	58	37.45N	3.63W	3	3.0	(1)	—	3.3	—	—	13	NW.GUADIX. SP	ISC,MDD	
1985	OCT	2	11	23	52	36.94N	5.57W	10	3.0	(1)	—	—	—	—	15	E.LEBRIJA. SP	ISC,NEC,CSM,SPG	
1985	OCT	25	4	5	10	36.91N	4.10W	10	3.2	(1)	—	—	4.0	—	19	N.MALAGA. SP	ISC,NEC,CSM,LDG,SPG	
1985	OCT	27	19	34	56	36.34N	6.92E	10	5.7		5.4	—	5.2	8MK	474 *	CONSTANTINE. AL	BEN,ISC,LDG,CSM,NEC	
1985	OCT	28	1	54	24	36.47N	6.85E	10	3.6	(3)	4.0	—	3.8	—	19	A	EL-HARROUCH. AL	ISC,NEC,LDG
1985	OCT	28	3	39	16	36.40N	7.20E		3.7	(3)	—	—	3.9	—	—	A	AZZABA. AL	LDG
1985	NOV	1	3	1	48	36.56N	6.91E		3.6		—	—	—	—	14	A	E. EL HARROUCH. AL	ISC,LDG
1985	NOV	3	12	32	30	36.44N	6.86E	10	3.0	(1)	—	—	—	—	13	A	W.GIBALTAR	ISC,CSM,NEC
1985	NOV	9	11	46	45	36.51N	6.89E	10	3.1	(1)	—	—	3.9	—	16	A	CONSTANTINE. AL	ISC,LDG,NEC
1985	NOV	17	10	13	51	35.96N	5.02W	87	3.4	(1)	—	3.4	—	—	28		STRT.GIBALTAR	ISC,NEC,CSM,MDD,SPG
1985	DEC	8	20	14	2	35.30N	3.83W	14	3.2	(1)	—	3.3	—	—	20		BAH.ALHUCEM. MO	ISC,MDD,NEC,SPG
1986	JAN	9	18	50	24	35.40N	11.70E	33	4.4	(2)	4.6	—	—	—	24		MEDITERRANEAN	ISC,NAO,HFS,NEC,CSM
1986	JAN	13	3	15	24	37.25N	4.24W	31	3.1	(1)	—	3.5	—	—	17		LOJA. SP	ISC,NEC,CSM,MDD
1986	JAN	19	20	11	15	36.43N	2.71E	23	3.8	(3)	—	4.0	4.0	—	27		E.BOUFARIK. AL	ISC,NEC,CSM,MDD,LDG
1986	JAN	22	13	19	55	36.41N	3.22W	4	3.1	(1)	—	3.5	—	—	16		ALBORAN	ISC,MDD,NEC
1986	JAN	24	18	37	48	35.12N	4.32W	6	3.0	(1)	—	3.9	—	—	14		TOR.ALCATA. MO	ISC,NEC,MDD,LIS
1986	JAN	28	11	13	22	31.98N	5.39W	10	3.8	(1)	4.3	3.9	—	—	46		N.AIT ANI. MO	ISC,NEC,CSM,MDD,SPG
1986	JAN	28	20	1	28	31.97N	5.39W	24	4.9		4.9	4.9	—	—	209		E.KHENIFRA. MO	ISC,MOS,NEC,CSM,LIS
1986	JAN	29	7	50	15	32.11N	5.42W	25	3.0	(1)	—	4.2	—	—	14	A	N.TAROUBDIT. MO	ISC,NEC,SPG,MDD
1986	FEB	11	4	58	10	36.42N	2.91E	10	3.9	(3)	3.8	4.1	4.1	—	31		BOUFARIK. AL	ISC,CSM,NEC,MDD,LDG
1986	FEB	13	20	22	29	35.62N	1.45E	24	3.9	(1)	4.4	4.3	3.9	—	51		E.AMMI MOUSSA. AL	ISC,NEC,MDD,CSM,LDG
1986	FEB	17	12	16	22	36.59N	4.66W	84	3.1	(1)	—	3.6	—	—	17		ALBORAN	ISC,NEC,MDD,SPG
1986	FEB	22	18	31	15	36.92N	9.46W		3.0	(1)	—	—	—	—	13		ATLANTIC	ISC,SPG
1986	MAR	3	0	14	20	29.93N	7.11W	10	3.1	(1)	—	—	—	—	16		AGADIR TISSUNT. MO	ISC,NEC,SPG
1986	MAR	28	2	56	23	36.37N	6.82E	10	4.6	(2)	4.8	—	4.1	—	32		W.KHROUB. AL	ISC,NEC,LDG,CSM
1986	APR	2	3	16	19	36.35N	1.73E	10	3.5	(1)	—	3.4	3.7	—	29		ABADIA. AL	ISC,NEC,CSM,MDD,LDG
1986	APR	3	22	33	13	35.06N	4.66W	33	3.1	(1)	—	3.3	—	—	16		S.TOR.ALCATA. MO	ISC,NEC,MDD,LIS,SPG
1986	APR	22	11	37	39	35.93N	10.31W	10	3.0	(1)	—	3.5	—	—	13		ATLANTIC	ISC,LIS,NEC,MDD,SPG
1986	APR	26	0	11	59	37.27N	3.74W	9	3.8	(1)	—	4.2	—	—	54		ILORA. SP	ISC,NEC,MDD,CSM,LIS
1986	MAY	8	23	10	36	37.97N	4.33W	10	3.0	(1)	—	3.5	—	—	13		N.BAENA. SP	ISC,NEC,MDD
1986	MAY	10	13	18	41	35.84N	0.32E	10	3.7	(2)	3.7	3.3	—	—	18		GULF ARZEW	ISC,NEC,MDD
1986	MAY	11	1	58	39	37.98N	4.36W	10	3.0	(1)	—	3.1	—	—	13	A	NW.BAENA. SP	ISC,NEC,MDD
1986	MAY	13	0	19	44	36.59N	4.47W	95	4.1	(3)	4.2	4.3	4.4	—	50		ALBORAN	ISC,NEC,MDD,CSM,LDG
1986	MAY	20	7	29	49	35.30N	6.17E	10	4.1	(2)	4.2	—	3.9	—	26		BATNA. AL	ISC,NAO,NEC,CSM,LDG
1986	MAY	28	2	59	1	35.75N	10.00W	10	3.0	(1)	—	3.5	—	—	13		ATLANTIC	ISC,NEC,MDD,LIS,SPG
1986	MAY	30	11	22	24	37.12N	4.18W	10	3.5	(1)	—	3.9	3.7	—	29		E.ANTEQUERA. SP	ISC,LDG,NEC,CSM,MDD
1986	JUN	7	21	33	22	37.38N	3.56W	9	3.0	(1)	—	3.3	—	—	14		GRANADA. SP	ISC,NEC,MDD
1986	JUN	12	1	9	45	36.08N	11.36E	10	3.9		4.2	—	4.3	—	59		MEDITERRANEAN	ISC,CSM,NEC,LDG,HFS

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M ₅	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1986	JUN	21	4	58	32	38.09N	1.50W	10	3.2	(1)	—	3.6	—	—	18	PLIEGO. SP	ISC,NEC,MDD
1986	JUL	17	15	57	5	37.09N	4.19W	4	3.1	(1)	—	3.5	—	—	16	E.ANTEQUERA. SP	ISC,NEC,MDD
1986	JUL	18	22	24	41	36.26N	9.14W	84	3.6	(1)	—	3.9	—	—	35	ATLANTIC	ISC,NEC,LIS,CSM,MDD
1986	JUL	28	10	48	53	34.35N	9.50E	10	3.9	(1)	4.3	—	—	—	52	W.GULF GABES. TU	ISC,NEC,CSM
1986	AUG	31	22	57	35	37.11N	3.12W	20	3.6	(1)	—	3.7	—	—	37	A SIER.NEVADA. SP	ISC,NEC,CSM,MDD
1986	SEP	18	1	2	10	36.02N	9.97W	65	4.0	(3)	4.2	3.6	4.2	—	31	ATLANTIC	ISC,CSM,NEC,LDG,MDD
1986	SEP	25	6	31	46	36.83N	8.93W	48	3.9	(1)	4.0	4.5	4.7	—	57	ATLANTIC	ISC,NEC,CSM,LDG,LIS
1986	SEP	28	18	58	26	35.00N	3.88W	10	3.0	(1)	—	3.4	—	—	15	TARGUIST. MO	ISC,MDD,SPG
1986	OCT	12	21	32	18	37.16N	9.26W	26	3.9	(1)	4.1	3.8	4.1	—	42	ATLANTIC	ISC,NEC,LDG,MDD,LIS
1986	OCT	20	3	3	22	37.12N	4.19W	18	3.5	(1)	—	4.1	—	—	33	W.ALHAMA. SP	ISC,NEC,CSM,MDD,SPG
1986	OCT	20	14	48	20	36.91N	8.57W	54	4.7	—	4.7	4.7	4.8	—	137	ATLANTIC	ISC,NAO,CSM,NEC,LDG
1986	OCT	27	4	36	37	37.87N	2.52W	10	3.4	(1)	—	4.1	—	—	26	F N.HUERCAL. SP	ISC,NEC,MDD
1986	OCT	27	4	46	55	37.87N	2.49W	10	3.4	(1)	—	4.4	—	—	28	W.HUERCAL. SP	ISC,NEC,MDD,CSM
1986	NOV	3	15	51	37	33.51N	0.87E	10	4.3	(2)	4.4	3.5	—	—	27	GERYVILLE. AL	ISC,NEC,MDD
1986	NOV	4	11	28	44	36.64N	1.58E	3	4.0	(1)	4.4	3.7	4.2	—	64	BENI HAOUA. AL	ISC,NEC,MDD,LDG,NAO
1986	NOV	4	18	15	57	37.27N	3.82W	5	3.7	(1)	—	4.2	4.3	—	43	N.ALHAMA. SP	ISC,LDG,NEC,CSM,LIS
1986	NOV	4	22	15	55	36.40N	1.65E	10	3.2	(1)	—	3.6	—	—	18	S.DAMOUS. AL	ISC,NEC,CSM,MDD
1986	NOV	9	3	33	28	36.61N	1.60E	10	3.0	(1)	—	3.8	3.2	—	13	BENI HAOUA. AL	ISC,NEC,MDD,LDG
1986	NOV	27	17	49	55	35.49N	9.82E	18	4.0	(2)	4.1	4.5	4.0	—	31	KAIROUAN. TU	ISC,NEC,TUN,CSM,LDG
1986	DEC	2	5	3	1	36.71N	8.11W	33	3.0	(1)	—	3.6	—	—	15	ATLANTIC	ISC,NEC,LIS,MDD,SPG
1986	DEC	13	17	6	59	37.40N	3.52W	10	3.1	(1)	—	3.4	—	—	17	GRANADA. SP	ISC,NEC,MDD
1986	DEC	19	23	41	15	36.71N	3.28E	13	3.7	(3)	—	—	4.0	—	27	ALGER. AL	ISC,NEC,LDG,CSM
1986	DEC	23	6	59	50	36.69N	7.86W	33	3.3	(1)	—	3.6	—	—	24	ATLANTIC	ISC,CSM,NEC,MDD,LIS
1986	DEC	24	16	11	33	35.58N	3.74W	10	3.1	(1)	—	3.3	—	—	17	F ALBORAN	ISC,NEC,MDD,LIS
1986	DEC	28	21	23	26	35.40N	3.57W	10	3.2	(1)	—	3.4	—	—	18	ALBORAN	ISC,NEC,MDD
1987	JAN	2	8	14	49	35.41N	3.59W	10	3.2	(1)	—	3.7	—	—	18	A ALBORAN	ISC,NEC,SPG,MDD,LIS
1987	JAN	4	4	16	37	36.92N	5.40W	10	3.0	(1)	—	3.5	—	—	13	W.RONDA. SP	ISC,LIS,MDD
1987	JAN	4	6	41	55	35.41N	3.52W	10	3.2	(1)	—	3.8	—	—	18	A ALBORAN	ISC,NEC,LIS,MDD,SPG
1987	JAN	8	23	10	10	35.39N	3.63W	2	3.8	—	4.4	4.0	—	—	62	E.BAH.ALHUCEM. MO	ISC,NEC,CSM,LIS,HFS
1987	JAN	26	11	11	40	35.92N	1.38E	4.4	—	—	5.0	4.8	4.4	—	242	E.OUED RHIOU. AL	ISC,NAO,HFS,NEC,CSM
1987	FEB	6	19	4	8	36.16N	8.31W	85	3.0	(1)	—	3.1	—	—	15	ATLANTIC	ISC,NEC,MDD,LIS,SPG
1987	FEB	28	4	1	20	35.94N	1.41E	7	3.8	(1)	4.0	3.9	3.9	—	44	BORDJ BOU NAAM. AL	ISC,NEC,MDD,CSM,LDG
1987	MAR	1	14	10	29	35.40N	3.53W	10	3.3	(1)	—	3.3	—	—	24	ALBORAN	ISC,NEC,CSM,MDD
1987	MAR	10	0	36	39	37.81N	3.36W	7	3.3	(1)	—	—	—	—	24	F PEAL. SP	ISC
1987	MAR	11	0	36	39	37.87N	3.33W	20	3.9	(1)	—	4.2	4.3	—	52	PEAL. SP	ISC,NEC,CSM,LIS,LDG
1987	MAR	20	18	55	31	37.00N	3.60W	5	3.2	(1)	—	3.4	—	—	19	SIER.NEVADA. SP	ISC,MDD
1987	MAR	27	9	38	23	36.78N	4.05W	94	3.7	(1)	—	3.5	—	—	41	VELEZ MALAGA. SP	ISC,NEC,CSM,MDD,LIS
1987	APR	7	16	40	41	37.88N	4.60W	13	3.5	(1)	—	3.5	—	—	30	W.BAENA. SP	ISC,LIS,MDD,CSM
1987	APR	24	6	22	7	36.62N	5.49E	10	3.6	(3)	—	4.1	3.8	—	16	KHERRATA. AL	ISC,NEC,MDD,LDG
1987	MAY	8	17	54	14	36.20N	8.43W	60	3.1	(1)	—	3.4	—	—	16	ATLANTIC	ISC,LIS,MDD
1987	MAY	19	3	24	32	36.89N	7.09W	33	3.0	(1)	—	3.3	—	—	14	GULF CADIZ	ISC,MDD,LIS
1987	JUN	5	1	13	44	36.96N	4.08W	7	3.1	(1)	—	3.0	—	—	16	S.MALAGA. SP	ISC,MDD,NEC
1987	JUN	12	7	57	56	35.48N	3.53W	26	3.2	(1)	—	3.3	—	—	20	ALBORAN	ISC,MDD,NEC,SPG
1987	JUN	18	2	15	2	35.67N	4.51W	60	3.3	(1)	—	3.2	—	—	22	ALBORAN	ISC,NEC,SPG,MDD
1987	JUN	18	14	28	23	35.92N	3.65E	10	3.4	(1)	—	—	4.0	—	28	S. SIDI AISSA. AL	ISC,CSM,MDD,LDG

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

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YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1987	JUL	1	0	10	45	36.66N	9.44E	10	3.2 (1)	--	--	--	--	20		MEDJEZ BAB. TU	ISC,NEC
1987	JUL	1	21	48	4	37.11N	5.16W	11	3.4 (1)	--	3.5	--	--	25		N.RONDA. SP	ISC,NEC,MDD,LIS
1987	JUL	3	5	54	53	36.79N	9.78E	10	3.6 (2)	3.6	--	--	--	7		W.TUNIS. TU	ISC,NEC
1987	JUL	11	11	41	23	36.70N	5.82W	4	3.4 (1)	--	3.4	--	--	26		SE.JEREZ. SP	ISC,NEC,MDD,LIS
1987	JUL	14	18	51	14	36.81N	5.37W	9	3.0 (1)	--	--	--	--	14		W.MARBELLA. SP	ISC
1987	JUL	23	11	57	23	35.06N	6.02W	98	3.8 (1)	--	3.9	4.3	--	48		MLY BOU SELHAM. MO	ISC,CSM,LDG,NEC,LIS
1987	JUL	24	8	9	53	36.28N	3.31E	10	4.0 (1)	4.5	3.7	4.2	--	61		E.MEDEA. AL	ISC,NEC,MDD,CSM,LDG
1987	JUL	29	7	49	5	37.28N	2.34W		3.6 (1)	--	4.1	--	--	37		N.ALMERIA. SP	ISC,NEC,MDD,CSM,LIS
1987	JUL	31	2	24	3	36.37N	7.86E	10	3.7 (1)	3.4	--	4.2	--	41		E.GUELMA. AL	ISC,NEC,MDD,CSM,LDG
1987	JUL	31	15	45	19	33.50N	4.12W	10	3.6 (2)	3.6	--	--	--	13		E.SEFROU. MO	ISC,NEC,SPG
1987	AUG	9	1	14	23	36.35N	5.23W	10	3.2 (1)	--	3.1	--	--	19		E. VEJERS. SP	ISC,NEC,MDD
1987	AUG	15	3	57	12	36.25N	4.34W	10	3.3 (1)	--	3.0	--	--	21		ALBORAN	ISC,NEC,MDD
1987	AUG	28	16	12	23	34.89N	6.52W	10	3.2 (1)	--	--	--	--	20		S.MLY B.SELHAM. MO	ISC,NEC,SPG
1987	AUG	30	3	59	28	36.82N	5.49W	27	3.5 (1)	--	3.5	--	--	33		SW.RONDA. SP	ISC,NEC,CSM,MDD,LIS
1987	SEP	7	11	21	40	37.06N	3.65W	5	3.0 (1)	--	3.2	--	--	14		E.ALHAMA. SP	ISC,NEC,MDD
1987	SEP	10	0	16	21	37.08N	3.53W	5	3.1 (1)	--	2.8	--	--	17	A	SIER.NEVADA. SP	ISC,NEC,MDD
1987	SEP	10	14	57	30	36.94N	4.62W	33	3.2 (1)	--	3.0	--	--	19		ALORA. SP	ISC,NEC,MDD
1987	SEP	11	13	3	3	35.75N	4.61W	120	3.8 (1)	--	4.0	4.2	--	51		ALBORAN	ISC,NEC,CSM,LIS,LDG
1987	SEP	13	13	49	13	34.73N	2.68E	10	3.2 (1)	--	--	--	--	20		E. DJELFA. AL	ISC,CSM
1987	SEP	16	22	0	31	37.05N	3.67E	1	4.1	4.7	4.7	4.5	--	195		DELLYS. AL	ISC,MOS,NEC,CSM,LDG
1987	SEP	19	15	8	31	34.90N	6.29W	7	3.2 (1)	--	3.2	--	--	19		MLY B.SELHAM. MO	ISC,SPG,MDD
1987	OCT	7	10	4	28	36.09N	11.53E	2	3.8 (3)	--	--	4.0	--	19		MEDITERRANEAN	ISC,ROM,NEC,CSM
1987	OCT	7	12	32	25	36.19N	11.27E	6	3.6 (3)	--	--	3.8	--	7	A	MEDITERRANEAN	ISC,ROM
1987	OCT	23	9	6	7	36.27N	6.13W	59	3.1 (1)	--	2.9	--	--	16		W.GIBRALTAR	ISC,NEC,MDD
1987	OCT	25	3	35	45	36.18N	6.61W	85	4.2 (1)	4.1	4.2	4.8	--	85		W.GIBRALTAR	ISC,NEC,CSM,LIS,LDG
1987	NOV	5	23	20	59	37.90N	4.55W	6	3.6 (1)	--	3.8	--	--	35		ADAMUZ. SP	ISC,NEC,CSM,MDD,SPG
1987	NOV	13	0	56	25	37.62N	4.43W	4	3.3 (1)	--	3.2	--	--	23	F	AGUILAR. SP	ISC,MDD
1987	NOV	13	1	8	47	37.65N	4.36W	4	3.2 (1)	--	3.0	--	--	19	F	AGUILAR. SP	ISC,MDD
1987	NOV	13	2	13	43	37.68N	4.39W	10	3.3 (1)	--	3.3	--	--	24		AGUILAR. SP	ISC,NEC,MDD
1987	NOV	29	13	41	40	36.60N	6.22W	6	3.0 (1)	--	2.9	--	--	14		GULF CADIZ	ISC,NEC,MDD
1987	DEC	1	16	6	53	36.62N	9.82W	10	3.0 (1)	--	3.2	--	--	15		ATLANTIC	ISC,NEC,MDD,SPG
1987	DEC	9	15	40	33	35.47N	3.81W	22	4.1	4.7	4.2	--	--	117		ALBORAN	ISC,CSM,MDD,NEC,LIS
1987	DEC	9	23	14	26	35.44N	3.79W	10	3.1 (1)	--	--	--	--	16	A	ALBORAN	ISC,MDD,NEC,SPG
1987	DEC	10	0	2	14	35.50N	4.00W	1	3.2 (1)	--	3.2	--	--	19	A	ALBORAN	ISC,CSM,MDD,NEC,SPG
1987	DEC	10	0	20	24	35.45N	3.92W	10	3.5 (1)	--	3.8	--	--	33	A	ALBORAN	ISC,CSM,SPG,NEC,LIS
1987	DEC	24	0	45	41	35.44N	3.79W	33	3.3 (1)	--	3.5	--	--	23	A	ALBORAN	ISC,SPG,MDD,NEC
1987	DEC	26	14	32	15	36.70N	8.57W	10	3.3 (1)	--	3.7	--	--	24		W.GIBRALTAR	ISC,NEC,MDD,LIS
1988	JAN	3	3	42	41	37.80N	4.46W	10	3.4 (1)	--	4.0	--	--	26		BAENA. SP	ISC,NEC,MDD,CSM,LIS
1988	JAN	26	8	0	12	36.22N	6.68W	82	3.5 (1)	--	3.5	--	--	33		W.GIBRALTAR	ISC,CSM,NEC,LIS,MDD
1988	FEB	13	1	47	37	36.19N	1.77E	10	3.7 (1)	4.0	3.3	4.1	--	37		E. CHLEF. AL	ISC,NEC,MDD,CSM,LDG
1988	FEB	20	18	38	11	36.67N	7.53W	10	3.3 (1)	--	3.3	--	--	21		GULF CADIZ	ISC,LIS,NEC,CSM,MDD
1988	FEB	24	23	43	49	36.18N	8.01W	10	3.2 (1)	--	3.6	--	--	18		W.GIBRALTAR	ISC,NEC,LIS,MDD,SPG
1988	FEB	26	17	32	2	35.21N	6.24W	10	3.1 (1)	--	3.2	--	--	17		LARACHE. MO	ISC,NEC,CSM,SPG,MDD
1988	MAR	10	20	39	28	33.15N	9.75W		3.0 (1)	--	3.7	--	--	14		ATLANTIC	ISC,SPG,LIS
1988	APR	5	18	46	10	37.54N	3.57W	7	3.1 (1)	--	3.3	--	--	16		N.GRANADA. SP	ISC,NEC,MDD,LIS

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1988	APR	9	9	50	45	35.01N	3.48W	18	3.7	(1)	—	4.0	—	—	43	TAFEREIT. MO	ISC,NEC,CSM,MDD,LIS
1988	APR	9	20	27	26	31.44N	9.75W	10	4.2		4.7	4.7	—	—	63	ATLANTIC	ISC,NEC,CSM,LIS,MDD
1988	APR	26	8	42	4	36.71N	8.81W	30	3.2	(1)	—	3.5	—	—	18	W.GIBRALTAR	ISC,NEC,MDD,LIS
1988	APR	30	3	39	33	34.64N	5.60W	10	3.5	(1)	3.7	3.9	—	—	31	E.MC.BELKSIRI. MO	ISC,NEC,CSM,MDD,LIS
1988	MAY	2	19	39	48	36.37N	5.79W	6	3.1	(1)	—	3.0	—	—	17	A SAN FERNANDO. SP	ISC,NEC,MDD
1988	MAY	8	19	59	32	35.28N	4.61W	10	3.3	(1)	—	3.2	—	—	23	TOR.ALCATA. MO	ISC,NEC,MDD,SPG
1988	MAY	17	19	19	10	36.73N	8.88W	41	3.1	(1)	—	3.3	—	—	16	W.GIBRALTAR	ISC,MDD,LIS
1988	MAY	30	10	44	4	36.35N	4.58W	121	3.3	(1)	—	3.2	—	—	24	ALBORAN	ISC,NEC,CSM,LIS,MDD
1988	JUN	17	6	0	35	37.45N	9.08W	10	3.0	(1)	—	3.2	—	—	15	ATLANTIC	ISC,NEC,LIS,SPG,MDD
1988	JUN	24	7	43	12	34.24N	9.21E	10	4.2	(1)	4.6	4.8	3.9	—	96	S.SENED. TU	ISC,TU,HFS,NEC,CSM
1988	JUN	24	19	53	39	34.27N	9.24E	10	4.3	(2)	4.4	4.1	—	—	20	A SE.SENED. TU	ISC,TUN
1988	JUN	26	21	21	32	35.99N	4.30W	18	3.4	(1)	—	3.4	—	—	27	ALBORAN	ISC,NEC,MDD,CSM,LIS
1988	JUN	27	17	47	37	34.24N	9.27E	18	3.9	(1)	4.2	4.6	—	—	55	SE.SENED. TU	ISC,CSM,NEC,TU,NAO
1988	JUL	3	9	0	12	36.48N	8.03W	10	3.0	(1)	—	3.3	—	—	14	ATLANTIC	ISC,NEC,MDD,SPG
1988	JUL	8	23	31	11	36.22N	5.44W	14	3.7	(1)	—	3.8	—	—	40	N.ALGECIRAS. SP	ISC,MDD,LIS,NEC,CSM
1988	JUL	9	2	19	30	36.27N	5.46W	5	3.1	(1)	—	2.8	—	—	16	A N.ALGECIRAS. SP	ISC,MDD,NEC,CSM
1988	JUL	15	14	38	52	36.45N	9.95W	10	3.0	(1)	—	3.4	—	—	14	ATLANTIC	ISC,NEC,MDD,LIS
1988	JUL	18	20	32	54	37.20N	3.85W	14	3.4	(1)	—	3.3	—	—	25	S.GRANADA. SP	ISC,MDD,NEC,CSM
1988	JUL	24	0	47	24	35.42N	3.63W	58	3.4	(1)	—	3.3	—	—	26	ALBORAN	ISC,NEC,MDD,CSM,LIS
1988	JUL	24	18	9	51	36.13N	3.22W	12	3.0	(1)	—	3.0	—	—	13	ALBORAN	ISC,MDD
1988	JUL	25	20	3	5	36.54N	7.11W	25	3.6		4.6	4.3	4.6	—	104	GULF CADIZ	ISC,CSM,NEC,LDG,LIS
1988	JUL	28	17	37	53	35.38N	4.86W	117	3.3	(1)	—	3.7	—	—	23	ALBORAN	ISC,NEC,CSM,MDD,LIS
1988	AUG	9	3	56	39	36.75N	8.76W	108	3.7	(1)	—	3.8	—	—	40	W.GIBRALTAR	ISC,NEC,CSM,MDD,LIS
1988	AUG	20	13	3	3	37.29N	3.68W	17	3.9	(1)	4.7	4.0	4.1	—	56	GRANADA. SP	ISC,LDG,NEC,LIS,CSM
1988	AUG	20	16	42	51	37.27N	3.73W	6	3.2	(1)	—	3.6	—	—	18	A GRANADA. SP	ISC,NEC,CSM,MDD
1988	AUG	24	13	40	3	37.58N	8.60W	3	4.0	(3)	—	4.1	4.3	—	51	N.MONCHIQUE. PO	ISC,NEC,CSM,LDG,LIS
1988	AUG	27	8	16	24	34.25N	4.81W	10	3.3	(1)	—	3.3	—	—	23	MLY IDRIS. MO	ISC,NEC,SPG,MDD
1988	SEP	7	17	27	38	36.62N	9.93W	10	3.1	(1)	—	3.4	—	—	17	ATLANTIC	ISC,NEC,MDD,LIS,SPG
1988	SEP	9	16	58	28	35.13N	6.00E	10	3.9	(2)	4.0	—	3.9	—	25	N. BISKRA. AL	ISC,NEC,CSM,LDG
1988	SEP	10	10	27	12	36.35N	4.37W	97	3.0	(1)	—	3.0	—	—	14	ALBORAN	ISC,NEC,MDD
1988	SEP	16	22	4	26	36.30N	9.23W	10	3.0	(1)	—	3.2	—	—	14	ATLANTIC	ISC,NEC,MDD,SPG
1988	OCT	5	0	42	11	35.51N	3.90W	32	3.9	(1)	3.7	—	—	—	54	ALBORAN	ISC,NES
1988	OCT	13	6	32	46	35.75N	4.60W	131	3.1	(1)	—	3.0	—	—	17	ALBORAN	ISC,NES
1988	OCT	20	22	51	58	35.49N	3.88W	10	3.4	(1)	—	3.7	—	—	27	ALBORAN	ISC,NES
1988	OCT	28	22	5	38	34.87N	5.79W	10	3.3	(1)	—	3.8	—	—	21	SOUK ARBAA. MO	ISC,NES
1988	OCT	31	6	51	9	36.18N	5.72W	69	3.9	(1)	—	4.2	—	—	55	E. VEJERS. SP	ISC,NES
1988	OCT	31	10	12	57	36.40N	2.68E	10	5.6		5.3	—	—	—	438	E.HADJOUT. AL	ISC,NES
1988	NOV	1	1	46	40	36.10N	8.00W	10	3.0	(1)	—	3.2	—	—	14	W.GIBRALTAR	ISC,NES
1988	NOV	21	10	19	5	31.48N	9.48W	10	3.9	(1)	4.4	—	—	—	53	E.MOGADOR. MO	ISC,NES
1988	NOV	28	19	54	28	36.28N	4.50W	101	3.2	(1)	—	3.3	—	—	20	ALBORAN	ISC,NES
1988	DEC	5	7	7	2	36.09N	2.99W	10	3.1	(1)	—	3.0	—	—	16	ALBORAN	ISC,NES
1988	DEC	5	20	12	26	36.95N	3.81W	8	3.6	(1)	—	3.9	—	5MK	34	S.ALHAMA. SP	ISC,NES
1988	DEC	5	20	15	15	37.13N	3.80W	12	3.1	(1)	—	3.7	—	4MK	17	A ALHAMA. SP	ISC,NES
1988	DEC	6	20	15	37	37.17N	3.78W	10	3.1	(1)	—	3.4	—	4MK	17	A ALHAMA. SP	NES

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YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M _s	mb	M	Ml	ITSC	NS	RMK	SITE	REFERENCES
1988	DEC	9	6	16	30	36.20N	2.70E	10	3.1 (1)	—	3.6	—	—	17		MEDEA. AL	ISC,NES
1988	DEC	12	6	40	41	36.30N	4.53W	94	4.1 (1)	5.1	—	4.5	3MK	73		ALBORAN	ISC,NES
1988	DEC	14	17	0	9	37.20N	3.88W	12	3.3 (1)	—	3.3	—	3MK	22		CACIN. SP	ISC,NES
1988	DEC	25	13	56	2	37.14N	3.53W	10	3.0 (1)	—	3.2	—	—	13		SIER.NEVADA. SP	ISC,NES
1988	DEC	26	1	29	13	36.20N	2.70E	10	3.4 (1)	—	3.6	—	—	26		MEDEA. AL	ISC,NES
1989	JAN	3	16	52	19	35.60N	11.60E	10	4.7	5.1	—	—	—	320		MONASTIR. TU	ISC,NES
1989	JAN	3	18	19	24	35.60N	11.62E	10	3.7 (2)	3.8	4.5	—	—	25	A	MAHDIA. TU	ISC,NES
1989	JAN	6	5	26	58	35.59N	11.66E	10	4.7	5.1	—	—	—	326	A	MAHDIA. TU	ISC,NES
1989	JAN	8	11	48	10	35.60N	11.58E	10	3.8 (2)	3.9	4.2	—	—	25	A	MAHDIA. TU	ISC,NES
1989	JAN	9	10	2	29	35.65N	11.62E	24	4.3	5.1	—	—	—	314	A	MAHDIA. TU	ISC,NES
1989	JAN	29	22	41	50	37.81N	2.51W	4	3.5 (1)	—	3.7	—	4MK	29		GALERA. SP	ISC,NES
1989	FEB	12	12	2	19	36.39N	2.65E	10	4.6 (1)	4.4	—	4.4	—	171		EL-AFFROUN. AL	ISC,NES
1989	APR	11	13	49	15	34.89N	9.14E	37	4.1	4.9	—	—	—	131		SNED. TU	ISC,NES
1989	JUL	26	14	3	2	36.32N	4.49W	94	3.4 (1)	—	3.3	—	—	28		ALBORAN	ISC,NES
1989	AUG	22	7	6	36	35.21N	3.76W	4	3.6 (1)	—	3.8	—	—	37		E.BAH ALHUCEM. MO	ISC,NES
1989	AUG	23	5	30	57	34.51N	5.39W	14	3.5 (1)	—	3.0	—	—	33		E.MC.BELKSIRI. MO	ISC,NES
1989	AUG	30	8	52	11	35.20N	3.82W	15	3.5 (1)	—	3.4	—	—	32	A	BAH.ALHUCEM. MO	ISC,NES
1989	SEP	23	9	56	3	37.75N	3.54W	10	3.0 (1)	—	2.8	—	—	15		EL-REAL. SP	ISC,NES
1989	SEP	27	2	10	46	35.60N	5.60W	98	3.1 (1)	—	3.3	—	—	17		TANGIER. MO	ISC,NES
1989	OCT	7	4	45	10	37.13N	3.67W	7	3.3 (1)	—	3.4	—	5MK	22		ALHENDIN. SP	ISC,NES
1989	OCT	29	19	9	13	36.78N	2.44E	6	5.7	5.7	—	—	8MK	617	*	CHENOUA MOUN. AL	BEN,ISC,NES
1989	OCT	29	19	21	52	36.74N	2.44E	10	5.5	5.6	—	—	7MK	503	A	CHENOUA MOUN. AL	BEN,ISC,NES
1989	OCT	31	4	13	38	36.82N	2.42E	10	3.7 (1)	3.7	4.3	4.0	—	40	A	N. CHERCHEL. AL	ISC,NES
1989	OCT	31	4	16	50	36.60N	2.59E	10	3.5 (1)	—	4.0	—	—	31	A	N.BOU ISMAIL. AL	ISC
1989	OCT	31	21	26	26	36.83N	2.48E	10	3.8 (1)	—	4.2	—	—	49	A	N. TIPAZA. AL	ISC
1989	NOV	4	20	8	5	36.69N	2.39E	10	4.1 (1)	4.1	—	4.5	—	84	A	HADJOUT. AL	ISC,NES
1989	NOV	5	11	38	18	36.72N	2.42E	8	4.5 (1)	4.7	—	4.6	—	162	A	CHENOUA MOUN. AL	ISC
1989	DEC	20	0	51	9	36.37N	7.18W	10	3.3 (1)	—	—	—	—	21		W.GIBRALTAR	ISC
1989	DEC	20	4	15	2	37.28N	7.35W	14	4.7	4.9	—	—	—	221		GULF CADIZ	ISC
1990	JAN	5	0	49	34	36.96N	5.39W	8	3.0 (1)	—	—	—	—	13		W.RONDA. SP	ISC
1990	JAN	23	21	25	0	37.05N	5.56W	10	3.0 (1)	—	—	—	—	13	A	E.LEBRIJA. SP	ISC,NES
1990	JAN	23	21	37	29	37.05N	5.60W	10	3.3 (1)	—	—	—	3MK	22	A	CORIBE. SP	ISC
1990	JAN	24	2	22	50	37.09N	5.51W	10	3.1 (1)	—	—	—	—	16	A	CORIBE. SP	ISC
1990	JAN	24	3	52	1	37.07N	5.57W	5	3.2 (1)	—	—	—	—	19	A	CORIBE. SP	ISC
1990	FEB	3	1	7	11	36.51N	1.70E	10	3.4 (1)	—	—	—	—	25		MILIANA. AL	ISC
1990	FEB	5	7	17	45	36.72N	2.47E	17	4.0 (1)	—	3.7	—	—F	67		CHENOUA MOUN. AL	ISC
1990	FEB	6	7	41	27	36.56N	4.52W	90	3.6 (1)	—	3.6	—	—	37		ALBORAN	ISC,NES
1990	FEB	9	9	31	47	36.78N	2.48E	12	4.7	5.0	—	—	—	423		CHENOUA MOUN. AL	ISC,NES
1990	FEB	9	11	16	56	36.80N	2.44E	11	3.6 (1)	4.2	—	4.0	—	37	A	CHENOUA MOUN. AL	ISC
1990	FEB	9	11	19	56	36.66N	2.59E	10	3.7 (1)	—	—	4.2	—F	45	A	BOU ISMAIL. AL	ISC
1990	FEB	9	13	9	56	36.89N	2.45E	10	3.8 (1)	3.9	—	4.2	—	47	A	N.CHENOUA MOUN. AL	ISC
1990	FEB	9	13	19	31	36.87N	2.48E	10	3.7 (1)	4.0	—	4.1	—	42	A	N.CHENOUA MOUN. AL	ISC,NES
1990	FEB	18	16	23	17	36.90N	2.52E	10	3.0 (1)	—	—	—	—	14	A	MEDITERRANEAN	ISC
1990	MAR	2	7	48	17	36.78N	6.29E	10	3.9 (1)	3.6	—	4.2	—	54		SKIKDA. AL	ISC,NES

continued

YR	MNH	DY	H	MIN	S	LAT	LON	DEP	M ₅	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1990	MAR	5	4	37	6	36.50N	7.69W	86	3.5	(1)	—	3.6	—	—	30	W.GIBRALTAR	ISC
1990	MAR	8	1	37	15	36.87N	3.67W	624	4.4	(1)	4.5	4.3	—	—	122	SIER.NEVADA. SP	ISC,NES
1990	MAR	9	1	9	52	36.95N	4.24W	49	3.3	(1)	—	—	—	—	21	S.ANTEQUERA. SP	ISC
1990	MAR	9	1	58	18	37.15N	4.45W	5	3.0	(1)	—	—	—	—	14	A ANTEQUERA. SP	ISC
1990	MAR	13	9	20	49	35.04N	3.79W	4	3.1	(1)	—	—	—	—	17	BAH.ALHUCEM. MO	ISC,NES
1990	MAR	16	18	23	57	37.05N	7.19W	2	3.4	(1)	—	3.5	—	—	25	ATLANTIC	ISC
1990	MAR	23	3	16	0	36.40N	9.90W	100	3.8	(1)	—	—	4.1	—	51	ATLANTIC	ISC
1990	MAR	24	23	16	34	37.79N	1.55W	6	3.0	(1)	—	—	—	—	14	N.ALHAMA. MURC. SP	ISC
1990	APR	4	6	20	10	37.20N	10.32E	8	3.7	(1)	4.1	—	3.7	—	41	MEDITERRANEAN	ISC,NES
1990	APR	9	1	17	10	36.38N	3.68W	5	3.0	(1)	—	—	—	—	14	ALBORAN	ISC
1990	APR	12	22	47	53	36.79N	2.49E	14	4.1		4.7	—	—	—	197	MEDITERRANEAN	ISC,NES
1990	APR	13	22	17	13	35.63N	4.81W	88	4.0	(3)	4.2	—	4.3	2MK	129	MALAGA. SP	ISC,NES
1990	MAY	2	16	40	25	36.46N	4.51W	103	4.0	(1)	4.0	—	4.6	3MK	73	FUENGIROLA. SP	ISC,NES
1990	MAY	9	6	37	9	37.06N	3.63W	4	3.2	(1)	—	—	—	3MK	20	DILAR. SP	ISC
1990	MAY	23	22	51	59	35.77N	1.23W	29	3.8	(1)	—	3.7	—	—	48	MEDITERRANEAN	ISC
1990	JUN	6	11	27	25	37.33N	3.82W	15	3.0	(1)	—	2.6	—	—	15	NE.ALHAMA. SP	ISC,MDD
1990	JUN	7	1	38	2	37.36N	3.77W	10	3.0	(1)	—	2.8	—	—	14	A NE.ALHAMA. SP	ISC,MDD,NEC
1990	JUN	8	12	54	47	37.42N	3.79W	17	3.2	(1)	2.8	2.9	—	—	18	A NE.ALHAMA. SP	ISC,MDD,NEC
1990	JUN	9	2	49	54	37.37N	3.79W	17	3.0	(1)	2.8	3.0	—	—	14	A W.LOJA. SP	ISC,MDD,NEC
1990	JUN	9	15	7	31	37.44N	3.81W	9	3.2	(1)	3.0	3.1	—	—	21	A W.LOJA. SP	ISC,NEC,MDD
1990	JUN	20	7	31	28	35.24N	3.89W	10	3.0	(1)	—	3.4	—	—	13	F ALBORAN	ISC,MDD,SPG
1990	JUN	20	8	5	21	35.23N	3.78W	5	3.4	(1)	3.2	3.3	—	—	25	ALBORAN	ISC,NEC,CSM,SPG,MDD
1990	JUN	23	6	2	37	37.90N	4.01W	8	3.0	(1)	2.8	2.9	—	—	14	ARJONA. SP	ISC,MDD,NEC
1990	JUL	1	23	24	4	37.09N	3.78W	7	3.2	(1)	2.9	2.8	—	—	19	E.ALHAMA. SP	ISC,MDD,NEC
1990	JUL	18	19	15	48	36.72N	6.14W	4	3.7	(1)	3.7	3.9	—	—	37	CADIZ. SP	ISC,NEC,LIS,MDD,CSM
1990	JUL	19	5	10	37	36.63N	6.22W	10	3.1	(1)	2.7	2.9	—	3MK	16	A GULF CADIZ. SP	ISC,NEC,LIS,MDD
1990	JUL	24	3	57	30	34.79N	4.11W	16	3.5	(1)	3.2	3.8	—	—	30	TARGUIST. MO	ISC,NEC,SPG,CSM,MDD
1990	JUL	26	18	13	17	36.76N	2.80E	22	3.3	(1)	3.5	3.7	3.8	—	23	KOLEA. AL	ISC,NEC,CSM,MDD,LDG
1990	JUL	26	22	37	4	37.74N	4.56W	3	3.2	(1)	3.1	3.1	—	3MK	19	E.CORDOBA. SP	ISC,NEC,MDD
1990	JUL	28	13	56	48	36.54N	2.90E	38	3.0	(1)	—	3.3	3.5	—	13	BOUFARIK. AL	ISC,NEC,MDD,LDG
1990	JUL	31	19	51	1	36.42N	9.12W	92	3.4	(1)	3.2	3.5	—	—	28	WEST GIBRALTAR	ISC,NEC,CSM,LIS,SPG
1990	AUG	7	17	14	20	36.91N	7.69W	15	3.0	(1)	—	3.3	—	—	13	GULF CADIZ	ISC,LIS,MDD
1990	AUG	9	18	26	46	36.76N	2.42E	19	3.6	(1)	—	3.7	3.9	—	34	MEDITERRANEAN	ISC,NEC,CSM,MDD,LDG
1990	AUG	13	1	45	49	34.88N	5.21W	97	3.2	(1)	—	3.5	—	—	20	E.OUEZZANE. MO	ISC,NEC,MDD,SPG
1990	AUG	14	0	22	40	36.04N	2.80W	10	3.1	(1)	—	3.0	—	—	17	F ALBORAN	ISC,NEC,MDD
1990	AUG	14	15	54	48	36.30N	2.81W	12	3.4	(1)	—	3.5	—	—	27	ALBORAN	ISC,NEC,MDD,CSM
1990	AUG	14	22	44	55	35.65N	11.48E	18	3.7	(1)	3.6	4.0	—	—	41	MEDITERRANEAN	ISC,NEC,ROM,CSM,HFS
1990	AUG	15	16	56	44	36.30N	2.98W	3	3.7	(1)	4.0	3.9	—	—	44	ALBORAN	ISC,NEC,MDD,LIS
1990	AUG	16	11	57	45	36.29N	2.85W	10	3.4	(1)	3.2	3.4	—	—	26	A ALBORAN	ISC,NEC,MDD,CSM
1990	AUG	19	23	29	31	37.44N	4.30W	30	3.0	(1)	2.9	3.1	—	—	12	PRLEGO. SP	ISC,NEC,MDD
1990	AUG	27	0	18	39	36.63N	7.60W	71	3.3	(1)	—	2.9	—	—	21	W.GIBRALTAR	ISC,NEC,MDD,LIS,SPG
1990	AUG	27	13	8	34	36.81N	5.72W	5	3.1	(1)	—	2.9	—	—	16	N.BORNOS. SP	ISC,NEC,MDD
1990	AUG	31	8	35	1	36.54N	7.59W	66	3.2	(1)	—	2.6	—	—	18	W.GIBRALTAR	ISC,MDD,NEC,LIS
1990	SEP	28	2	7	58	35.89N	4.52W	111	4.0	(1)	3.7	4.0	4.0	3MK	75	ALBORAN	ISC,NEC,MDD,CSM,LDG

Appendix A. Earthquake catalogue for the Maghreb region 20°N-38°N, 10°W-12°E...

continued

YR	MNH	DY	H	MIN	S	LAT	Lon	DEP	M _s	mb	M	MI	ITSC	NS	RMK	SITE	REFERENCES
1990	SEP	28	3	51	41	37.14N	4.20W	4	3.2	(1)	—	2.9	—	—	20	E.ANTEQUERA. SP	ISC,NEC,MDD
1990	OCT	1	1	51	49	36.83N	3.04W	10	3.1	(1)	3.0	3.1	—	—	19	SIER.NEVADA. SP	ISC,NEC,MDD
1990	OCT	8	8	1	1	36.61N	4.46W	99	3.0	(1)	—	3.0	—	—	13	ALBORAN	ISC,MDD
1990	OCT	14	16	2	50	37.04N	3.66W	2	3.0	(1)	2.2	2.8	—	—	15	E.ALHAMA. SP	ISC,MDD,NEC
1990	OCT	19	7	56	45	35.97N	11.92E	10	3.7	(2)	3.8	—	—	—	10	MEDITERRANEAN	ISC
1990	OCT	25	1	37	16	35.10N	3.92W	10	3.4	(1)	3.2	3.6	—	—	25	TAFEREIT. MO	ISC,NEC,SPG,CSM,MDD
1990	OCT	28	13	49	37	36.78N	4.03W	85	3.0	(1)	—	2.7	—	—	13	W.ALHAMA. SP	ISC,MDD
1990	NOV	1	3	16	41	36.33N	9.18W	100	3.5	(1)	—	3.5	—	—	33	W.GIBRALTAR	ISC,NEC,CSM,MDD,LIS
1990	NOV	4	4	8	19	35.64N	11.87E	10	3.7	(2)	3.7	—	—	—	13	MEDITERRANEAN	ISC,NEC
1990	NOV	5	20	9	39	36.25N	8.18W	65	3.3	(1)	3.2	3.3	—	—	24	W.GIBRALTAR	ISC,NEC,MDD,LIS
1990	NOV	7	7	25	1	37.02N	3.70W	14	4.0	(1)	4.0	4.1	4.2	5MK	65	E.ALHAMA. SP	ISC,NEC,MDD,CSM,LDG
1990	NOV	10	1	21	54	37.03N	3.67W	6	3.1	(1)	2.2	2.7	—	—	16	SIER.NEVADA. SP	ISC,MDD,NEC
1990	NOV	11	11	57	37	33.97N	11.91E	10	5.0		5.0	—	—	—	301	MEDITERRANEAN	ISC,NEC,MOS,HFS,NAO
1990	NOV	18	15	26	9	36.37N	4.57W	102	3.5	(1)	—	3.4	—	—	33	ALBORAN	ISC,NEC,CSM,MDD,SPG
1990	NOV	26	7	10	32	37.30N	3.92W	10	3.1	(1)	—	2.9	—	—	16	W.GRANADA. SP	ISC,NEC,MDD