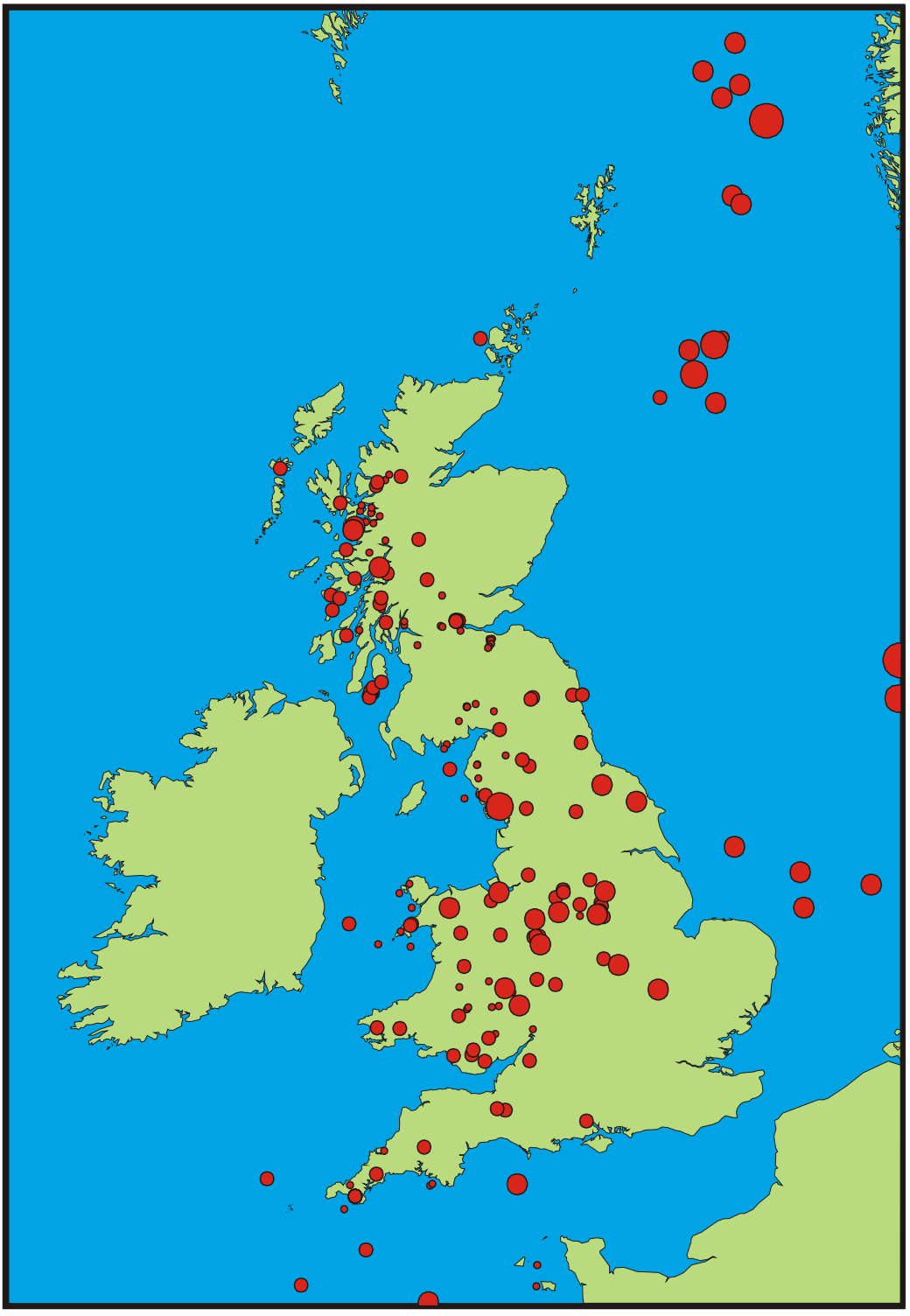
British Geological Survey

BULLETIN OF BRITISH EARTHQUAKES 1993



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BRITISH GEOLOGICAL SURVEY

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Global Seismology Series

Bulletin of British earthquakes 1993

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1. INTRODUCTION

1.1 The Bulletin

The British Geological Survey's Seismic Monitoring and Information Service operates a nationwide network of seismograph stations in the United Kingdom of Great Britain and Northern Ireland. This area, including coastal waters, is covered within the limits of the detection capabilities of the seismograph network and accuracy is extended through data exchange with neighbouring countries. Seismic phase data, location details and magnitudes are presented in the Bulletin for all earthquakes detected and located by BGS during 1993 together with maps showing the larger magnitude events since 1979 ($ML \geq 2.5$) and since 1970 ($ML \geq 3.5$).

1.2 Summary of 1993 seismicity

There have been 358 earthquakes located by the monitoring network in the year, with 39 of them having magnitudes of 2.0 or greater. Six in that magnitude category are known to have been felt together with a further seven smaller ones, bringing the total to 13 felt earthquakes in 1993.

The largest onshore earthquake of the year occurred in Grange-Over-Sands, Cumbria, on 26 June with a magnitude of 3.0 ML and a felt area of 2700 km^2. A macroseismic survey throughout the region showed that it was felt in the epicentral area with a maximum intensity of 5 MSK (just below the damaging level). The focal mechanism interpretation shows two possibilities; strike-slip with a small component of reverse faulting or reverse faulting with a small component of strike-slip faulting. Further details of this event are given in Appendix A1.

The largest felt offshore earthquake in 1993, (magnitude 4.0), occurred on 7 July and was felt at the Gorm hydrocarbons field. The felt reports described "a shuddering" on the Gorm complex and on a nearby standby vessel resulting in a production stoppage of 2 hours. It locates in a similar area to the magnitude 4.0 ML event on 10 June 1985 which was felt on the Gorm and Tyra platforms and on a standby vessel.

A swarm of events occurred 10 km south of the isle of Arran with magnitudes ranging from 0.9 to 1.7 ML, on 6 and 7 January. Later in the year (13 June and 8 August), two events with magnitudes of 1.3 and 1.6 ML were located in the same general area as the swarm.

On 29 June, a small event (magnitude 2.0 ML) was located in the Potteries, Stoke-on-Trent. It was felt in the Talke Pits area and it was reported that unstable objects were overturned indicating an intensity of at least 5 MSK.

Near Coniston in Cumbria, a magnitude 1.5 ML earthquake was detected on 8 July 1993. A single felt report was received from the village of Kirkby-in-Furness describing "a noise like a heavy lorry passing outside". It locates some 18 km from the Grange-Over-Sands earthquake two weeks before.

A series of 22 events near Mallaig in the north-west of Scotland was detected in August and

September with magnitudes ranging from -0.2 to 2.7 ML. The largest was felt with intensities of at least 3 MSK (catalogued as 3+) in the town of Mallaig where residents reported a noise "like a small blast". The event locates in the same general area as the magnitude 3.7 ML Mallaig earthquake of 1 December 1985 which was felt with intensities up to 4 MSK.

Three small events occurred near Ludlow in September with magnitudes of 1.8, 2.3 and 1.6 ML. They all locate at a mid-crustal depth of around 14 km. A fault plane solution of the larger event (2.3 ML) shows strike-slip faulting with a small thrust component (Appendix A2).

In September, 11 small events with magnitudes ranging between -0.2 and 0.6 ML were located near to Johnstonebridge, Dumfries and Galloway. None were reported to be felt. They locate at depths of between 3.9 and 5.0 km in the same general area as the felt Johnstonebridge earthquake on 27 February 1992 (magnitude 2.7 ML).

A magnitude 2.3 ML earthquake was felt by a few people in Betws-y-Coed and Nantbh, North Wales on 11 October 1993. It located at a depth of 9.3 km and the fault plane solution shows dominant normal faulting with a small component of strike-slip faulting (Appendix A3).

On the Lleyn Peninsula of North Wales, five events with magnitudes ranging from 0.0 to 1.4 ML were located at depths between 20.7 and 23.4 km and form part of the earthquake series which was detected following the magnitude 5.4 ML earthquake of 19 July 1984.

Throughout the year, 89 small events were located near the village of Constantine in Cornwall with magnitudes ranging between -0.8 and 1.8 ML. None were reported to be felt. They form part of the continuing series which has been instrumentally recorded since 1981 and which has produced five felt earthquakes.

Some 53 coalfield events with magnitudes ranging between -0.2 and 2.4 ML have been detected in 1993, six of which were felt. Thirty of them were located in the Clackmannan area in the central region of Scotland, where 3 events were felt by local residents in the village of Forest Mill; the largest (1.6 ML) had an intensity of at least 3 MSK.

Near Ranskill, Nottinghamshire, a magnitude 2.2 ML coal-mining event was detected on 11 November. It was felt strongly in the village of Ranskill where residents ran out of their houses into the streets, indicating an intensity of at least 5 MSK. The largest coalfield event during the year had a magnitude of 2.4 ML but was not reported to be felt.

2. BULLETIN FORMAT

2.1 Tables

Data on the earthquakes and seismograph stations operated in 1993 are arranged as follows:

TABLE 1 is a chronological listing of all earthquakes in and near the UK for which a reliable epicentral location could be obtained together with felt sonic events and other significant non-natural events.

TABLE 2 is a listing of earthquakes arranged in order of decreasing latitude to facilitate identification of earthquakes in selected regions.

TABLE 3 is a chronological listing of felt sonic events and significant non-natural events detected by the seismograph network. These events are included in Table 1 but not Table 2.

TABLE 4 is an alphabetical listing of the geographical coordinates of seismograph stations operated in 1993 by BGS and DIAS (the Dublin Institute of Advanced Studies).

TABLE 5 lists the arrival times of phases for the events in Table 2 at each station, together with amplitude information used for magnitude calculation.

TABLE 6 shows the crustal seismic velocity models used for event location.

2.2 Figures

FIGURE 1: seismograph network operational in December 1993.

FIGURE 2: detection threshold of the seismograph stations operational in December 1993 for average background noise conditions where the detection criterion is that the signal has to significantly exceed 4 nanometres at 10 Hz on 4 stations.

FIGURE 3: epicentral location map of all the events in 1993 that are listed in Table 2. It is estimated that the data set is complete for the land area.

FIGURE 4: locations of earthquakes in the UK of magnitude 2.5 ML and above in the period 1979 to 1993. It is estimated that the data set is complete for the land area.

FIGURE 5: locations of earthquakes in the UK of magnitude 3.5 ML and above in the period 1970 to 1993.

3. THE BGS UK SEISMOGRAPH NETWORK

3.1 Instrumentation

A standard seismic network consists of up to seven 'outstation' vertical seismometers radio-linked over distances of up to 100 km to a central site where the data, along with that from a local 3-component set of two horizontal and one vertical seismometers, are recorded on magnetic tape by a Geostore recorder. Tapes are dispatched, usually once per week, to Edinburgh for analysis.

A more detailed description of the system is given by Browitt et al (1985) and the response of the system is described by Turbitt and Stewart (1982).

At some locations, on-line paper chart recorders display three channels to permit rapid investigation of reported felt tremors. At other stations, low-gain vertical seismometers extend the dynamic range (by 34 db) of the system to stronger motions, and low frequency microphones are used to aid the discrimination of sonic booms. In addition, strong motion accelerometers installed at several locations (near Hunterston, Cornwall, Chapelcross and Jersey) record accelerations up to 0.1 g.

At locations shown in red on Figures 1 and 2 the seismograph stations are recording onto digital event triggered recorders (SEISLOG). These are designed to trigger on events and write to a computer disk which is accessed from Edinburgh via a modem. Each morning, automatic data transfers are made to the Edinburgh VAX computer and the events are analysed during that day providing a rapid response for location and magnitude calculations. SEISLOGS have the advantage over the Geostore system of providing a wider dynamic range (72 db), a bandwidth of up to 40 Hz and the capacity for 16 seismic channels. The system also has the facility to auto-reboot in the event of mains power failure and this normally takes three minutes once power has recovered.

Improvements in geographic coverage of the UK are described in Turbitt (1985), with more recent developments in Walker and Browitt (1994), in press. In December 1993, 68% of the 128 stations were being recorded on a rapid access SEISLOG system.

3.2 Detection Threshold

The detection capabilities of a network depend upon station distribution, instrument sensitivity and background noise levels. For the BGS UK network, the lower limit of sensitivity is governed by the background noise level. The contours in Figure 2 illustrate the lower threshold magnitude for an earthquake to significantly exceed 4 nanometres of noise (average) at 10 Hz on at least four seismographs. Noise sources such as wind, waves, traffic and livestock vary considerably with time (typically 0.5 to 15 nanometres, at 10 Hz) causing the magnitude thresholds to increase or decrease. In conditions of high noise, 0.8 ML should be added to the contour values.

The detection contours in Figure 2 hold true only if all stations are continuously monitored and this is not always the case. Small events in unmonitored areas may then go undetected unless they are felt and reported to BGS by local inhabitants. The detection capabilities by this process are strongly dependent on population density.

4. HYPOCENTRE PARAMETERS AND THEIR ERRORS

4.1 Epicentre Location

By accurately timing the signal onsets at a minimum of three stations, a location can be found for an earthquake which satisfies the observed pattern of arrivals. Instrumental locations in the bulletin were obtained using the computer program HYPO71 (Lee and Lahr, 1975) which iteratively adjusts a trial hypocentre (latitude, longitude, depth, and origin time) until the observed and computed arrival times coincide closely.

The accuracy of locations is dependent on distances from the closest stations, the distribution of the stations around the epicentre, the resolution to which signal onsets can be timed from the records, and the accuracy with which the seismic wave velocity through the earth can be modelled.

The velocity models used for the location of events in 1993 are given in Table 6 and were derived from a series of refraction profiles traversing Britain, LISPB (Bamford et al, 1976; Bamford et al, 1978; Assumpcao and Bamford, 1978 and Bott et al., 1985).

4.2 Depth Determination

The accurate determination of earthquake depth presents a more difficult problem, mainly because phase arrival patterns at the seismographs can still be satisfied for a large range of depths merely by adjusting the origin time to suit. Constraints on the depth can usually only be imposed when a station is very near the epicentre and even then the accuracy depends on the velocity model.

The best depth determinations have been obtained when a series occurred almost beneath a network. For events at larger distances, and where the error columns (ERH and ERZ), in the tables, are blank, the depth errors can be up to tens of kilometres. The quality factor of the event, as listed in the tables (SQD), is an indication of the depth error. As a general guide only, A*A, A*B, B*A and possibly B*B class events, have reliable depths.

4.3 Seismicity Distribution

Owing to variability in the earthquake detection threshold, which is governed by ambient noise conditions and the geometry of the observing network (see 3.2), the bulletin is biased towards certain localities. In order to present a consistent picture of UK seismic activity, earthquakes with magnitude 2.5 ML or greater, in the period 1979 to 1993, have been plotted in Figure 4. The data set is considered complete for these magnitudes in all localities of the onshore area. Seismicity for the period 1970 to 1993 is shown in Figure 5 with a threshold magnitude of 3.5. This is the period covered by BGS instrumentation which in the early years, only consisted of the network around Edinburgh (LOWNET) and Eskdalemuir (ESK) and a station near Kyle of Lochalsh (KYL). The data set is likely to be complete for such magnitudes.

4.4 Magnitude

All earthquakes in the bulletin have been assigned a local magnitude (ML) as defined by Richter (1935):

$$ML = \log_{10} (A/Ao)$$

where A is the maximum deflection (centre to peak in mm) registered by the earthquake on a Wood-Anderson seismograph and Ao is that for a 'standard' magnitude zero earthquake at the same distance. The Ao term is thus a distance correction factor tabulated by Richter to 200, and later 600 km. Although Richter intended his method to be an approximate quantification of earthquake size and his attenuation term, Ao, strictly only applies to California, the formula is still used world-wide today. The ML magnitudes in this bulletin have been calculated according to Richter by converting the output of the BGS instruments to an equivalent Wood-Anderson deflection. Ideally, the measurements are made on two horizontal instruments and averaged but, if this was not possible, the mean of the magnitudes from a number of verticals has been used. Ground motion registered at a seismograph varies with site conditions, direction from the earthquake, and the nature of the ray path. Consequently, it is important to take the mean from a good distribution of stations. The resulting errors on magnitudes quoted in the bulletin will normally be less than 0.4 ML.

4.5 Intensity

Intensity is a measure of the effect of the shaking on people, structures and objects. It decreases with distance from a maximum value (Io) usually found close to the epicentre. The maximum felt intensity is quoted, where known, on the MSK scale (Ad Hoc Panel, 1981).

5. BULLETIN CONTENT AND COMPLETENESS

5.1 The geographical area

The bulletin covers all of the UK land mass and its coastal waters including the North Sea to 800 kmE and 1400 kmN.

5.2 Events included

All events believed to be due to true tectonic origins have been included, that is, events caused by natural stresses within the earth.

Coalfield events are also included. These are small events occurring near coal workings which are believed to be caused by the redistribution of stress as the coal is extracted and, in some cases by collapse in old workings. They are indicated by C/F in the comments column of Tables 1, 2 and 5.

Acoustic disturbances, such as sonic booms from supersonic aircraft, are included when they are felt. The air-borne waves are readily identified by their slow travel time across an array or by their signature on a microphone but they are frequently reported by local people as

small earthquakes. They are indicated by 'SONIC' in both the locality and comments column of Tables 1 and 3. In 1993, nineteen sonic events were reported felt and all were detected by the UK network.

Significant non-natural events which received Media attention and felt explosions are also included in Tables 1 and 3. The felt explosions are indicated by 'EXPL' in both the locality and comments column. In 1993, five felt explosions were detected and a further six were reported in local newspapers.

5.3 Events excluded

Events that are known, or suspected to be of explosive origin, are excluded from the bulletin. Explosions due to quarrying, mining, weapon testing or disposal, naval exercises, geophysical prospecting and civil engineering are all excluded where possible, unless reported to be felt. Unfortunately, identification by record character, location and time of occurrence is not always conclusive and some man-made events may have been included in the bulletin or, more rarely, a small natural event may have been excluded.

5.4 Completeness

The contours of detection threshold in Figure 2 show that the whole of the UK is covered by the seismograph network for approximately magnitude 1.5, and above, at times of average ambient noise levels. High noise levels may cause this threshold to rise to about 2.3. Normally, however, an earthquake of this size would be felt, if not detected, in the areas of poorer instrumental coverage. The bulletin can, therefore, be assumed to be complete for all earthquakes of magnitude 2.3 and above.

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TABLE 1: CATALOGUE OF EVENTS LISTED CHRONOLOGICALLY: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930302	143615.2	51.05	-2.70	350.9	127.8	12.7	1.9	SOMERTON,SOMERSET		22	3	202	0.18	0.7	0.4	B*D	
19930307	041319.0	55.27	-3.33	315.7	598.0	12.9	0.5	NEWTON,D & G		18	9	172	0.09	0.4	0.7	A*C	
19930307	123944.2	49.44	-2.16	388.6	-51.5	12.4	0.7	NORTH OF JERSEY		7	22	333	0.01	0.5	1.3	A*D	25KM NORTH OF JERSEY
19930309	132209.4	56.65	-5.24	201.6	756.2	2.5	2.0	LOCH LINNHE,HIGHLAND		22	25	120	0.23	0.7	1.1	B*C	
19930310	053916.2	56.12	-3.72	293.0	693.2	0.5	1.0	CLACKMANNAN,CENTRAL		13	19	80	0.09	0.4	0.8	A*C	C/F
19930310	084051.8	49.97	-5.35	159.9	13.2	17.9	0.4	LIZARD POINT,CORNWALL		8	21	340	0.03	1.1	1.3	B*D	SW OF LIZARD POINT
19930312	152803.7	57.23	-5.66	178.9	821.5	4.5	-0.3	ISLE OF SKYE,HIGHLAND		4	12	264	0.02			A*D	
19930314	024857.2	54.43	-0.99	465.4	504.3	1.8	2.4	WESTERDALE,N YORKSHIRE		43	23	137	0.21	0.5	0.9	B*C	
19930315	142329.1	53.08	-1.11	459.6	354.2	0.1	2.4	FARNSFIELD,NOTTS		23	23	162	0.22	0.7	1.0	B*C	C/F
19930316	111306.9	52.86	-2.14	390.7	329.1	3.9	1.7	WHITGREAVE,STAFFS		12	26	135	0.27	1.1	3.8	B*C	
19930317	045037.5	57.11	-5.39	194.5	807.1	8.6	0.8	KINLOCH HOURN,HIGHLAND		6	30	173	0.35	0.2	7.1	C*C	
19930318	023143.5	51.62	-3.29	311.0	191.8	10.0	1.5	SENGHENYDD,M GLAMORGAN		15	33	124	0.16	0.6	1.2	B*C	
19930318	145900.0							SONIC-WORCESTERSHIRE									SONIC-FELT BROADWAY...
19930318	213340.9	53.02	-2.20	386.4	347.6	6.1	1.4	STOKE-ON-TRENT,STAFFS		7	24	161	0.03	0.2	0.6	A*C	
19930321	192935.1	51.06	-2.84	341.1	129.5	14.3	1.0	SOMERTON,SOMERSET		16	7	135	0.19	0.9	0.8	B*B	7KM WEST OF SOMERTON
19930324	100220.8	49.22	-2.17	387.5	-76.1	5.5	0.4	ST BRELADE,JERSEY		6	3	144	0.08	1.2	2.2	B*C	
19930324	114752.2	52.62	-1.00	467.3	302.9	7.7	1.5	KEYHAM,LEICESTERSHIRE		8	24	286	0.17	8.0	15.8	D*D	
19930325	025824.9	50.11	-5.18	172.7	28.3	7.0	-0.2	CONSTANTINE,CORNWALL		17	3	122	0.02	0.1	0.1	A*B	
19930325	025836.8	50.11	-5.18	172.8	28.3	7.1	-0.3	CONSTANTINE,CORNWALL		14	3	124	0.02	0.1	0.1	A*B	
19930325	140807.2	53.26	-1.84	410.5	373.5	0.0	1.4	BUXTON,DERBYSHIRE		6	21	94	0.08	0.6	1.1	A*C	COLLAPSE TYPE
19930326	015009.1	54.87	-1.37	440.5	553.2	0.0	1.7	SUNDERLAND,TYNE & WEAR		29	16	210	0.28	1.1	1.3	B*D	C/F
19930326	033704.4	57.12	-5.54	185.5	808.6	16.0	0.4	KNOYDART,HIGHLAND		9	12	127	0.11	0.7	1.5	A*B	
19930326	040124.7	54.91	-1.40	438.3	557.5	0.0	0.9	SUNDERLAND,TYNE & WEAR		8	82	301	0.21	7.7	5.8	D*D	C/F
19930326	063820.6	56.13	-3.72	293.0	694.4	0.6	1.0	CLACKMANNAN,CENTRAL		10	19	103	0.12	0.6	0.8	A*C	C/F
19930331	064432.4	52.12	-2.95	334.9	247.0	17.8	0.2	STAUNTON-O-WYE,HER&WOR		6	14	172	0.04	0.6	0.7	A*C	
19930404	081357.3	57.03	-5.79	170.0	799.7	2.7	0.7	MALLAIG,HIGHLAND		6	13	183	0.08	1.7	3.0	B*D	
19930405	123946.3	50.11	-5.18	172.7	28.4	6.9	0.8	CONSTANTINE,CORNWALL		13	3	122	0.02	0.1	0.1	A*B	
19930405	123948.3	50.11	-5.18	172.7	28.3	5.9	0.7	CONSTANTINE,CORNWALL		12	3	123	0.05	0.2	0.3	A*B	
19930406	064106.2	58.67	1.01	574.4	979.5	25.8	3.5	NORTHERN NORTH SEA		34	197	181	0.24	1.2	2.3	B*D	
19930406	082108.9	56.13	-3.68	295.4	694.5	0.1	1.6	CLACKMANNAN,CENTRAL	3+	10	17	103	0.09	0.5	0.9	A*C	C/F,FELT FOREST MILL
19930407	110816.5	50.11	-5.18	172.7	28.3	7.4	0.0	CONSTANTINE,CORNWALL		7	3	166	0.02	0.2	0.3	A*C	
19930407	195655.5	50.11	-5.18	172.6	28.3	6.8	0.1	CONSTANTINE,CORNWALL		14	3	169	0.03	0.2	0.2	A*C	
19930407	213434.1	50.11	-5.18	172.6	28.1	7.1	0.2	CONSTANTINE,CORNWALL		15	3	123	0.02	0.1	0.2	A*B	
19930408	012428.0	50.11	-5.18	172.7	28.2	7.1	-0.1	CONSTANTINE,CORNWALL		13	3	123	0.02	0.1	0.2	A*B	
19930408	035821.4	53.34	-1.71	419.2	382.8	14.6	1.1	BRADWELL,DERBYSHIRE		6	16	143	0.08	0.9	2.3	B*C	
19930409	161403.9	50.11	-5.18	172.5	28.0	6.6	0.4	CONSTANTINE,CORNWALL		14	3	122	0.02	0.1	0.1	A*B	
19930409	163511.5	56.13	-3.68	295.8	693.8	1.4	0.5	CLACKMANNAN,CENTRAL		6	17	118	0.05	0.5	0.9	A*C	C/F
19930409	175720.7	50.11	-5.18	172.6	28.2	7.2	0.6	CONSTANTINE,CORNWALL		15	3	121	0.02	0.1	0.2	A*B	
19930409	190544.2	50.11	-5.18	172.7	28.2	6.8	-0.1	CONSTANTINE,CORNWALL		12	3	123	0.02	0.1	0.2	A*B	
19930415	131548.3	50.11	-5.18	172.6	28.3	7.2	0.2	CONSTANTINE,CORNWALL		11	3	122	0.02	0.1	0.2	A*B	
19930415	213003.4	52.55	-0.75	484.9	295.9	4.7	2.3	GREAT EASTON,LEICS		23	25	77	0.40	1.3	2.8	C*C	
19930417	075520.5	56.12	-3.72	293.3	693.6	1.4	0.8	CLACKMANNAN,CENTRAL		11	19	86	0.08	0.3	0.6	A*C	C/F
19930419	001704.2	55.95	-3.04	335.0	673.4	1.9	-0.1	MUSSELBURGH,LOTHIAN		6	9	205	0.06	0.8	1.2	A*D	C/F
19930421	013732.2	56.13	-3.72	293.1	693.8	1.0	1.3	CLACKMANNAN,CENTRAL		19	19	80	0.09	0.2	0.4	A*C	C/F
19930422	111130.2	50.11	-5.18	172.6	28.2	7.0	0.5	CONSTANTINE,CORNWALL		14	3	169	0.03	0.2	0.2	A*C	
19930422	222249.6	55.95	-3.09	332.0	673.1	0.5	-0.2	MUSSELBURGH,LOTHIAN		6	7	208	0.24	8.5	7.9	D*D	C/F
19930424	094405.9	52.09	-3.38	305.5	244.6	15.9	0.5	BUILTH WELLS,POWYS		5	8	212	0.01	1.2	0.2	B*D	6KM SOUTH BUILTH WELLS
19930426	194344.9	57.61	-7.29	84.2	870.6	0.5	1.4	NORTH UIST,W ISLES		11	39	325	0.17	4.2	3.3	C*D	
19930429	180140.3	57.30	-6.06	155.3	830.6	2.9	1.7	ISLE OF SKYE,HIGHLAND		17	25	134	0.09	0.3	0.9	A*C	
19930501	183621.4	51.87	-4.53	225.8	222.3	3.2	1.4	MEIDRIM,DYFED		21	18	115	0.19	0.3	1.2	B*C	4KM NE OF MEIDRIM

TABLE 1: CATALOGUE OF EVENTS LISTED CHRONOLOGICALLY: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930102	052245.5	50.11	-5.18	172.8	28.3	7.3	0.1	CONSTANTINE,CORNWALL		11	3	164	0.04	0.3	0.4	A*C	
19930104	211223.8	50.11	-5.17	173.0	28.2	7.0	-0.1	CONSTANTINE,CORNWALL		9	3	159	0.01	0.2	0.2	A*C	
19930104	211226.0	50.11	-5.18	172.9	28.2	7.2	0.1	CONSTANTINE,CORNWALL		8	3	161	0.02	0.2	0.3	A*C	
19930106	181241.4	55.35	-5.28	191.7	610.9	15.5	1.2	ARRAN,STRATHCLYDE		11	20	122	0.17	0.8	2.3	B*B	
19930106	214145.6	55.35	-5.26	193.6	610.9	6.6	1.0	ARRAN,STRATHCLYDE		8	21	121	0.08	0.5	1.0	A*C	
19930106	224657.2	55.31	-5.32	189.1	606.8	13.7	1.0	ARRAN,STRATHCLYDE		5	18	218	0.02	0.5	1.0	A*D	
19930106	232343.2	55.30	-5.30	190.2	605.9	8.5	0.9	ARRAN,STRATHCLYDE		5	19	217	0.02	0.7	4.2	B*D	
19930107	001656.1	55.28	-5.30	190.6	603.2	5.0	0.9	ARRAN,STRATHCLYDE		6	20	209	0.04	9.4	12.1	D*D	
19930107	015345.2	55.35	-5.28	191.8	611.2	14.8	1.0	ARRAN,STRATHCLYDE		10	20	123	0.12	0.5	1.9	A*B	
19930107	155911.7	55.35	-5.28	191.9	610.9	11.8	1.7	ARRAN,STRATHCLYDE		13	20	122	0.17	0.7	2.5	B*B	
19930107	170045.5	55.37	-5.29	191.2	613.1	15.2	1.5	ARRAN,STRATHCLYDE		12	19	130	0.23	1.2	2.7	B*B	
19930107	170618.4	55.32	-5.30	190.9	608.3	13.7	0.9	ARRAN,STRATHCLYDE		5	19	227	0.07	2.0	3.4	B*D	
19930107	184435.8	55.30	-5.31	189.8	605.5	13.1	1.2	ARRAN,STRATHCLYDE		6	19	215	0.03	0.6	1.1	A*D	
19930115	170121.9	50.35	-4.84	198.0	53.7	5.9	1.6	ST AUSTELL,CORNWALL		12	4	298	0.01	0.2	0.2	A*D	
19930117	085255.7	50.10	-5.17	173.2	27.5	5.5	0.1	CONSTANTINE,CORNWALL		9	4	160	0.04	0.3	0.5	A*C	
19930118	060331.7	50.25	-3.94	261.6	40.4	2.0	0.2	PLYMOUTH,DEVON		4	10	331	0.00			A*D	20KM SE OF PLYMOUTH
19930118	104006.2	50.75	-1.11	462.9	94.7	0.3	2.4	EXPL-PORTSMOUTH	2+	11	89	117	0.48	3.2	10.9	C*D	EXPL-FELT PORTSMOUTH
19930118	223150.8	50.27	-3.90	264.4	42.5	7.5	0.9	PLYMOUTH,DEVON		6	6	258	0.17	3.6	1.8	C*D	20KM SE OF PLYMOUTH
19930119	224646.0	52.96	-4.38	239.9	343.2	22.5	1.4	LLEYN PENINSULA		14	3	99	0.07	0.4	0.8	A*B	
19930122	020945.4	53.16	-1.72	419.0	363.1	3.8	0.7	BAKEWELL,DERBYSHIRE		5	16	204	0.06	0.4	0.6	A*D	
19930123	030303.2	55.86	-4.45	246.7	666.0	6.4	0.2	RENFREW,STRATHCLYDE		6	6	153	0.03	0.6	1.0	A*C	
19930125	203356.9	52.85	-2.23	384.5	328.1	10.2	1.5	ECCLESHALL,STAFFS		14	32	131	0.43	2.0	6.2	C*C	
19930131	183941.0	53.20	-1.04	463.9	367.5	0.5	1.0	EDWINSTOWE,NOTTS	2+	6	33	278	0.09	4.3	3.1	C*D	C/F,FELT EDWINSTOWE
19930201	094606.0							SONIC-MONTROSE									SONIC-FELT MONTROSE....
19930202	005025.9	56.08	-5.06	209.3	692.3	1.5	1.0	LOCH ECK,STRATHCLYDE		6	33	317	0.03	2.3	2.1	B*D	
19930202	081509.1	57.22	-5.43	192.7	820.1	3.3	0.8	SHIEL BRIDGE,HIGHLAND		7	2	142	0.07	0.7	0.9	A*C	
19930202	151849.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930205	034457.9	53.22	-0.99	467.4	369.3	0.4	1.2	EDWINSTOWE,NOTTS	2+	5	36	285	0.13	8.0	5.7	D*D	C/F,FELT EDWINSTOWE
19930205	110709.0							SONIC-SCARBOROUGH									SONIC-FELT SCARBOROUGH
19930206	014818.9	56.13	-3.68	295.2	694.2	1.6	1.1	CLACKMANNAN,CENTRAL	2+	9	17	112	0.10	0.4	0.7	A*C	C/F,FELT FOREST MILL
19930207	173344.1	52.95	-4.41	238.3	341.7	22.0	1.0	LLEYN PENINSULA		10	27	297	0.09	1.0	1.4	A*D	
19930209	130233.5	51.55	-3.06	326.6	184.4	10.0	1.7	CARDIFF,S GLAMORGAN		10	50	191	0.25	2.2	2.6	B*D	
19930210	033729.2	56.94	-5.14	208.8	787.3	2.8	0.8	LOCH ARKAIG,HIGHLAND		8	17	170	0.13	1.0	1.8	B*C	
19930211	094003.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930211	094028.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930211	144509.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930211	144611.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930211	161903.2	55.01	-2.87	344.1	568.4	12.3	1.0	LONGTOWN,CUMBRIA		25	15	147	0.14	0.5	1.1	A*C	
19930211	194612.6	58.97	1.45	598.3	1013.8	6.4	3.8	NORTHERN NORTH SEA		36	192	159	0.39	1.1	2.1	C*D	
19930211	211925.1	56.12	-3.67	296.0	692.7	1.0	0.6	CLACKMANNAN,CENTRAL	2+	8	18	153	0.09	0.5	0.7	A*C	C/F,FELT FOREST MILL
19930212	143408.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930212	143642.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930213	203602.4	56.07	-4.02	274.2	688.3	7.5	0.9	CARRON VALLEY,CENTRAL		10	10	177	0.08	0.5	0.5	A*C	
19930215	122927.0	50.11	-5.18	173.0	28.1	6.2	0.5	CONSTANTINE,CORNWALL		11	6	163	0.02	0.2	0.2	A*C	
19930215	124517.9	50.11	-5.17	173.4	28.3	7.2	0.2	CONSTANTINE,CORNWALL		8	3	149	0.02	0.2	0.3	A*C	
19930218	051420.9	52.88	-4.57	227.0	334.7	10.4	0.3	GARN,GWYNEDD		9	7	143	0.05	0.8	1.0	A*C	
19930222	162800.0							SONIC-HUMBERSIDE									SONIC-FELT BEVERLEY...
19930223	035349.6	56.13	-3.71	293.4	694.3	0.9	1.4	CLACKMANNAN,CENTRAL		14	18	81	0.10	0.4	0.8	A*C	C/F
19930226	111948.0							SONIC-ANGLESEY									SONIC-FELT ANGLESEY...
19930227	011558.9	53.03	-2.20	386.4	348.3	7.2	1.8	STOKE-ON-TRENT,STAFFS		10	24	146	0.08	0.5	1.1	A*C	

TABLE 1

CATALOGUE OF EVENTS LISTED CHRONOLOGICALLY: 1993

KEY TO BULLETIN ENCODING

YearMoDy	:	Year, month and day of event.
HrMn Secs	:	Time of occurrence of event in hours, mins and secs, (UTC).
Lat	:	Latitude of the event, positive latitude indicates north.
Lon	:	Longitude of the event, negative longitude indicates west.
kmE	:	UK National Grid Reference in kilometres east of grid origin.
kmN	:	UK National Grid Reference in kilometres north of grid origin.
Dep	:	Depth of the hypocentre in kilometres.
Mag	:	Richter local magnitude of the event.
Locality	:	A geographical indication of the epicentral area, usually the nearest town followed by the region. A key to the abbreviations used in the locality column are given below.
Int	:	Maximum MSK intensity. 2+ indicates felt, no macroseismic details. 3+, 4+ etc indicates felt at 3 or 4, but no survey carried out. 3, 4, 5 etc describes the maximum MSK intensity produced by the event.
Comments	:	Additional comments about the event eg: C/F, see below under comments abbreviations.

The following abbreviations are extracted from the output of the location program HYPO71 (Lee and Lahr,1975)

No	:	Total number of P and S readings used in the event location.
DM	:	Epicentral distance in kilometres to the closest station.
Gap	:	Largest azimuthal separation in degrees between stations.
RMS	:	Root Mean Square of the travel-time residuals in seconds.
ERH	:	Standard error of the epicentre in kilometres. When this column is blank, the error is large and indeterminate.
ERZ	:	Standard error of the focal depth in kilometres. When this column is blank, the error is large and indeterminate.
SQD	:	S is quality factor ascribed to RMS, D is quality ascribed to number and distribution of stations.

Locality abbreviations

Sonic	:	Sonic boom	M Glamorgan	:	Mid Glamorgan
Expl	:	Explosion	Notts	:	Nottinghamshire
D & G	:	Dumfries and Galloway	Gl'shire	:	Gloucestershire
Her & Wor	:	Hereford and Worcester	S Yorks(hire)	:	South Yorkshire
Gtr Manchester	:	Greater Manchester	Leics	:	Leicestershire
Cambs	:	Cambridgeshire	W Midlands	:	West Midlands
Prt	:	Port	N Uist	:	North Uist
Staffs	:	Staffordshire	W Isles	:	Western Isles

Comments abbreviations

Sonic	:	Sonic boom
Expl	:	Explosion
C/F	:	Coalfield type event
...	:	and felt elsewhere

TABLE 1: CATALOGUE OF EVENTS LISTED CHRONOLOGICALLY: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930502	190825.8	58.92	0.93	568.6	1007.6	15.0	2.3	NORTHERN NORTH SEA		17	173	264	0.39	7.0	7.8	D*D	
19930504	142025.9	52.29	-0.06	531.9	267.5	0.2	2.4	HUNTINGDON,CAMBS		19	43	101	0.25	1.0	1.2	B*C	9KM SE OF HUNTINGDON
19930505	023200.6	56.12	-3.72	293.2	693.5	0.5	0.3	CLACKMANNAN,CENTRAL		11	19	122	0.15	0.6	0.9	B*C	C/F
19930505	042808.8	49.16	-5.99	108.9	-74.8	6.6	1.4	LAND'S END,CORNWALL		11	116	355	0.09	5.3	1.8	D*D	SW OF LAND'S END
19930505	140738.1	62.08	2.27	622.9	1363.3	10.8	2.2	NORWEGIAN SEA		15	175	212	0.42	2.8	3.9	C*D	
19930506	063653.5	54.84	-3.85	281.4	551.2	8.0	0.6	AUCHENCAIRN,D & G		9	7	186	0.03	0.3	0.6	A*D	
19930506	122252.8	54.63	-2.32	379.2	526.0	4.3	1.0	MICKLE FELL,DURHAM		30	27	110	0.14	0.3	1.4	A*C	
19930507	102634.0	56.12	-3.71	293.6	693.6	0.5	-0.1	CLACKMANNAN,CENTRAL		8	19	122	0.24	1.6	2.1	B*C	C/F
19930507	113000.5	59.07	-3.37	321.3	1021.0	7.2	1.7	WEST OF ORKNEY		9	85	206	0.12	1.7	0.8	B*D	
19930507	125043.0	52.14	-2.47	367.5	249.0	11.5	2.3	BROMYARD,HER & WOR		29	12	133	0.18	0.6	0.6	B*B	6KM SE OF BROMYARD
19930512	214636.1	56.12	-3.70	294.1	693.6	0.1	0.3	CLACKMANNAN,CENTRAL		11	18	121	0.25	0.8	1.3	B*C	C/F
19930519	072412.7	60.50	2.00	619.6	1186.3	22.3	2.1	NORTHERN NORTH SEA		10	163	156	0.13	1.0	2.0	A*D	
19930521	134302.0	52.32	-3.52	296.3	270.2	15.8	-0.2	RHAYADER,POWYS		6	9	151	0.05	1.3	1.8	B*C	
19930522	220227.9	50.28	-2.49	364.9	42.0	6.9	2.2	ENGLISH CHANNEL		28	104	96	0.33	0.8	2.9	C*D	40KM SOUTH OF WEYMOUTH
19930523	050412.8	50.11	-5.18	172.7	28.3	6.8	0.7	CONSTANTINE,CORNWALL		16	3	123	0.02	0.1	0.1	A*B	
19930524	144903.0							SONIC-SUFFOLK									SONIC-FELT LEISTON...
19930525	182537.9	57.30	-6.12	151.7	831.3	4.7	0.4	ISLE OF SKYE,HIGHLAND		7	29	193	0.05	1.0	0.8	A*D	
19930526	184834.6	55.93	-5.80	162.6	677.3	2.1	1.3	JURA,STRATHCLYDE		9	66	240	0.35	5.1	3.7	D*D	3KM SE OF LAGG,JURA
19930527	141159.0							EXPL-TAYSIDE									EXPL-HERCULES AIR CRASH
19930529	174341.4	61.52	1.90	607.4	1299.7	16.7	2.7	NORWEGIAN SEA		16	167	192	0.28	2.2	3.5	B*D	
19930531	161218.3	56.39	-4.01	275.8	723.5	5.4	0.0	COMRIE,TAYSIDE		6	21	201	0.21	1.0	1.2	B*D	
19930602	084741.6	55.20	-2.98	337.3	589.6	6.9	0.3	LANGHOLM,D & G		15	8	196	0.08	0.4	0.6	A*D	
19930603	040954.9	54.69	-2.45	371.0	533.4	2.3	1.0	MILBURN FOREST,CUMBRIA		30	24	80	0.10	0.2	0.4	A*C	
19930609	190242.6	57.29	-5.64	180.5	828.0	0.2	-0.3	PLOCKTON,HIGHLAND		4	6	230	0.03			A*D	
19930610	113014.3	58.44	0.29	533.9	952.7	15.0	1.8	NORTHERN NORTH SEA		31	96	357	0.35			C*D	
19930610	132550.7	52.96	-4.37	241.0	342.6	22.2	0.0	LLEYN PENINSULA		10	5	199	0.08	0.8	0.6	A*D	
19930611	015409.7	52.38	-3.01	331.3	276.9	13.6	0.4	KNIGHTON,POWYS		9	8	111	0.15	1.0	1.2	B*B	
19930613	052255.3	55.40	-5.25	194.2	616.8	17.0	1.3	ARRAN,STRATHCLYDE		14	59	278	0.38	3.5	3.8	C*D	
19930613	112412.9	56.19	-6.09	145.9	706.7	4.9	1.8	COLONSAY,STRATHCLYDE		24	83	256	0.23	1.6	2.3	B*D	
19930613	150055.7	49.03	-3.92	259.7	-94.8	11.1	2.2	ENGLISH CHANNEL		15	127	240	0.28	3.9	5.6	C*D	
19930614	062547.7	55.09	-3.63	295.8	578.2	3.1	0.4	DUMFRIES,D & G		8	10	133	0.04	0.4	1.1	A*B	
19930614	073730.8	60.41	2.18	630.0	1176.4	19.8	2.3	NORTHERN NORTH SEA		13	167	149	0.38	2.2	3.9	C*D	
19930615	044644.8	56.13	-3.69	295.2	694.8	0.4	0.5	CLACKMANNAN,CENTRAL		8	17	164	0.40	0.8	1.3	C*C	C/F
19930615	090600.7	54.93	5.68	891.5	586.5	15.0	3.0	SOUTHERN NORTH SEA		15	506	331	0.42			D*D	
19930615	163436.7	57.06	-5.75	172.5	803.1	5.7	2.3	KNOYDART,HIGHLAND		35	17	175	0.20	1.3	1.3	B*C	
19930619	162035.8	52.86	-2.19	387.0	329.2	10.9	1.6	STAFFORD,STAFFORDSHIRE		21	29	115	0.16	0.6	1.4	B*C	6KM NW OF STAFFORD
19930621	085951.0							SONIC-NORFOLK									SONIC-FELT TRIMINGHAM
19930622	053858.6	53.19	-1.40	440.1	366.1	0.3	1.6	CLAY CROSS,DERBYSHIRE		12	11	205	0.32	1.1	1.2	C*D	C/F
19930622	095933.6	52.96	-4.37	240.9	342.8	23.4	0.5	LLEYN PENINSULA		13	5	189	0.05	0.4	0.3	A*D	
19930622	201146.6	52.13	-2.83	343.1	248.3	19.5	0.3	WELLINGTON,HER & WOR		5	19	123	0.02	0.4	1.0	A*D	
19930626	054220.0	54.21	-2.86	344.1	479.3	8.3	3.0	GRANGE-O-SANDS,CUMBRIA	5	44	26	36	0.19	0.4	0.6	B*C	FELT GRANGE-OVER-SANDS..
19930626	211535.7	53.22	-2.99	333.8	370.3	3.9	1.2	CHESTER,CHESHIRE		19	40	245	0.11	0.7	0.7	A*D	
19930628	172723.8	61.65	2.31	628.3	1314.8	10.2	2.1	NORWEGIAN SEA		10	146	228	0.39	7.8	7.0	D*D	
19930629	004558.2	58.99	1.39	594.8	1016.4	21.8	2.8	NORTHERN NORTH SEA		22	188	135	0.39	1.4	3.1	C*D	
19930629	040348.8	53.04	-2.21	385.7	348.8	4.1	2.0	STOKE-ON-TRENT,STAFFS	5+	27	25	86	0.16	0.4	1.1	B*C	FELT TALKE PITS AREA
19930630	055956.8	53.31	-2.85	343.2	380.0	8.9	2.2	ELLESMERE PRT,CHESHIRE		51	53	50	0.27	0.4	1.1	B*D	
19930702	111516.4	57.19	-5.28	202.0	815.4	6.7	0.2	GLEN SHIEL,HIGHLAND		6	9	288	0.05	1.0	0.6	B*D	
19930704	015632.7	54.15	-1.47	434.4	473.4	1.3	1.9	RIPON,NORTH YORKSHIRE		29	24	156	0.18	0.7	1.1	B*C	
19930705	163226.2	54.25	-2.96	337.5	483.9	19.1	-0.1	HAVERTHWAITE,CUMBRIA		5	18	281	0.39		19.6	D*D	MAGNITUDE FROM VERTICALS
19930706	054251.6	52.27	-2.60	359.3	264.0	13.4	0.4	TENBURY WELLS,HER&WOR		8	26	209	0.17	1.5	2.1	B*D	

TABLE 1: CATALOGUE OF EVENTS LISTED CHRONOLOGICALLY: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930707	114806.6	55.55	4.63	818.1	648.6	0.3	4.0	CENTRAL NORTH SEA	4+	37	301	90	0.24	0.7	0.9	B*D	FELT GORM PLATFORM
19930708	061835.3	54.32	-3.12	327.3	492.2	8.5	1.5	CONISTON,CUMBRIA	2+	26	5	115	0.13	0.5	0.9	A*B	FELT KIRKBY-IN-FURNESS
19930708	223456.5	55.92	-3.08	332.5	670.3	2.4	0.4	MUSSELBURGH,LOTHIAN		8	7	127	0.13	0.4	0.9	A*B	C/F
19930710	172128.0	51.87	-4.92	199.0	223.1	12.3	1.7	HAVERFORDWEST,DYFED		22	13	126	0.16	0.5	0.5	B*B	7KM NE HAVERFORDWEST
19930712	020852.3	57.21	-5.45	191.7	818.8	5.7	0.0	SHIEL BRIDGE,HIGHLAND		6	2	114	0.10	1.2	0.7	B*B	
19930712	042039.5	53.11	-1.79	414.0	356.9	18.9	2.2	HARTINGTON,DERBYSHIRE		29	11	90	0.22	0.6	0.8	B*A	
19930712	215305.4	53.74	1.37	622.2	432.6	7.4	2.9	SOUTHERN NORTH SEA		31	156	270	0.35	3.9	4.1	C*D	
19930713	182903.8	50.11	-5.18	172.8	28.1	6.4	1.4	CONSTANTINE,CORNWALL		13	3	125	0.02	0.1	0.2	A*B	
19930713	183020.8	50.11	-5.18	172.7	28.4	6.9	0.0	CONSTANTINE,CORNWALL		12	3	122	0.02	0.1	0.1	A*B	
19930713	190058.2	50.11	-5.18	172.9	28.1	7.0	0.6	CONSTANTINE,CORNWALL		15	3	127	0.02	0.1	0.2	A*B	
19930715	034420.2	55.93	-3.07	332.9	671.0	1.3	0.7	MUSSELBURGH,LOTHIAN		10	7	125	0.10	0.3	0.3	A*B	C/F
19930716	200013.1	55.92	-3.07	333.2	670.6	0.6	0.6	MUSSELBURGH,LOTHIAN		8	7	125	0.02	0.1	0.1	A*B	C/F
19930717	110651.8	54.19	-2.37	375.6	477.1	4.7	1.4	CHAPEL-LE-DALE,N YORKS		22	46	155	0.15	0.5	1.5	A*C	7KM NE OF INGLETON
19930718	003719.6	50.11	-5.18	172.8	28.1	6.8	0.8	CONSTANTINE,CORNWALL		15	3	126	0.02	0.1	0.2	A*B	
19930718	003850.6	50.11	-5.18	172.5	28.3	6.8	-0.2	CONSTANTINE,CORNWALL		13	3	170	0.02	0.1	0.2	A*C	
19930718	004549.4	50.11	-5.18	172.9	28.2	7.0	0.3	CONSTANTINE,CORNWALL		12	3	127	0.02	0.1	0.3	A*B	
19930718	004649.1	50.11	-5.18	173.0	28.1	7.0	0.1	CONSTANTINE,CORNWALL		12	3	129	0.02	0.1	0.2	A*B	
19930718	004740.3	50.11	-5.18	172.8	28.2	6.8	-0.6	CONSTANTINE,CORNWALL		12	3	125	0.02	0.1	0.2	A*B	
19930718	012720.6	50.11	-5.18	172.7	28.3	7.1	0.2	CONSTANTINE,CORNWALL		15	3	166	0.03	0.2	0.2	A*C	
19930718	021441.1	50.11	-5.18	172.7	28.3	7.1	-0.1	CONSTANTINE,CORNWALL		16	3	165	0.03	0.2	0.2	A*C	
19930718	021804.6	50.11	-5.18	172.9	28.1	7.2	0.0	CONSTANTINE,CORNWALL		13	3	127	0.02	0.1	0.2	A*B	
19930718	055241.2	50.11	-5.17	173.0	28.2	7.1	-0.4	CONSTANTINE,CORNWALL		13	3	158	0.02	0.1	0.1	A*C	
19930718	055249.5	50.11	-5.18	172.9	28.2	7.1	0.2	CONSTANTINE,CORNWALL		13	3	126	0.02	0.1	0.2	A*B	
19930718	055306.0	50.11	-5.17	173.1	28.2	7.0	-0.3	CONSTANTINE,CORNWALL		10	3	157	0.02	0.2	0.2	A*C	
19930718	072225.4	50.11	-5.17	173.0	28.1	7.3	-0.3	CONSTANTINE,CORNWALL		10	3	159	0.02	0.2	0.2	A*C	
19930718	075024.2	50.11	-5.18	172.9	28.1	7.2	0.1	CONSTANTINE,CORNWALL		14	3	163	0.02	0.2	0.1	A*C	
19930718	083746.7	50.11	-5.18	172.9	28.1	7.0	0.6	CONSTANTINE,CORNWALL		15	3	127	0.02	0.1	0.2	A*B	
19930718	083809.5	50.11	-5.17	173.3	28.1	7.2	-0.5	CONSTANTINE,CORNWALL		6	3	154	0.02	0.3	0.4	A*C	
19930718	101134.2	50.11	-5.18	172.6	28.2	7.3	0.3	CONSTANTINE,CORNWALL		14	3	121	0.02	0.1	0.2	A*B	
19930718	101141.5	50.11	-5.18	172.5	28.2	7.3	0.2	CONSTANTINE,CORNWALL		14	3	171	0.03	0.2	0.2	A*C	
19930718	101237.1	50.11	-5.18	172.6	28.1	6.9	0.6	CONSTANTINE,CORNWALL		13	3	123	0.02	0.1	0.3	A*B	
19930718	111534.9	50.11	-5.18	172.9	28.1	7.0	0.3	CONSTANTINE,CORNWALL		13	3	126	0.03	0.2	0.3	A*B	
19930718	111600.4	50.11	-5.17	173.1	28.2	7.1	-0.2	CONSTANTINE,CORNWALL		8	3	156	0.01	0.2	0.2	A*C	
19930718	114805.2	50.11	-5.18	172.6	28.2	7.1	0.5	CONSTANTINE,CORNWALL		13	3	169	0.03	0.3	0.2	A*C	
19930718	162332.0	50.11	-5.18	173.0	28.3	7.2	-0.3	CONSTANTINE,CORNWALL		10	3	159	0.02	0.2	0.2	A*C	
19930718	162601.6	50.11	-5.18	172.6	28.3	6.9	0.7	CONSTANTINE,CORNWALL		15	3	122	0.01	0.1	0.1	A*B	
19930718	170900.4	50.11	-5.18	172.7	28.1	6.8	1.8	CONSTANTINE,CORNWALL		13	3	124	0.01	0.1	0.2	A*B	
19930718	170945.3	50.11	-5.18	172.9	28.0	6.9	1.2	CONSTANTINE,CORNWALL		16	3	128	0.02	0.1	0.1	A*B	
19930718	193739.9	50.11	-5.17	173.0	28.2	7.5	-0.3	CONSTANTINE,CORNWALL		9	3	158	0.02	0.2	0.2	A*C	
19930718	200610.0	50.11	-5.18	172.7	28.2	7.2	0.2	CONSTANTINE,CORNWALL		12	3	124	0.01	0.1	0.2	A*B	
19930718	205705.0	50.11	-5.18	172.8	28.2	7.1	0.0	CONSTANTINE,CORNWALL		15	3	125	0.02	0.1	0.2	A*B	
19930718	210524.0	50.11	-5.18	172.7	28.2	6.9	0.2	CONSTANTINE,CORNWALL		14	3	123	0.02	0.1	0.2	A*B	
19930718	214202.0	50.11	-5.18	172.7	28.1	7.1	0.0	CONSTANTINE,CORNWALL		11	3	166	0.02	0.2	0.3	A*C	
19930718	214811.3	50.11	-5.18	172.9	28.2	7.3	-0.4	CONSTANTINE,CORNWALL		9	3	162	0.02	0.2	0.3	A*C	
19930718	220042.4	50.11	-5.17	173.1	28.1	7.5	-0.8	CONSTANTINE,CORNWALL		9	3	158	0.02	0.2	0.2	A*C	
19930718	220046.0	50.11	-5.18	172.7	28.2	7.0	0.1	CONSTANTINE,CORNWALL		13	3	123	0.02	0.1	0.2	A*B	
19930718	225450.2	50.11	-5.18	172.6	28.1	6.9	0.0	CONSTANTINE,CORNWALL		12	3	122	0.02	0.1	0.2	A*B	
19930718	232434.6	50.11	-5.18	172.7	28.3	6.9	0.2	CONSTANTINE,CORNWALL		16	3	122	0.02	0.1	0.2	A*B	
19930718	235458.4	50.11	-5.18	172.8	28.3	7.2	0.2	CONSTANTINE,CORNWALL		13	3	124	0.02	0.1	0.2	A*B	
19930719	011154.4	50.11	-5.18	172.9	28.4	7.2	-0.5	CONSTANTINE,CORNWALL		9	3	286	0.02	0.3	0.2	A*D	

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YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930719	022029.0	50.11	-5.17	173.1	27.9	6.9	-0.5	CONSTANTINE,CORNWALL		7	4	291	0.01	0.2	0.1	A*D	
19930719	043512.7	50.11	-5.18	172.8	28.2	7.0	0.9	CONSTANTINE,CORNWALL		13	3	125	0.01	0.1	0.1	A*B	
19930719	045350.5	50.11	-5.18	172.6	28.2	7.2	0.1	CONSTANTINE,CORNWALL		14	3	169	0.03	0.2	0.2	A*C	
19930719	051202.2	50.11	-5.18	172.9	28.2	6.7	-0.6	CONSTANTINE,CORNWALL		6	6	178	0.01	0.1	0.2	A*C	
19930719	062029.7	50.11	-5.17	173.1	28.2	7.5	-0.3	CONSTANTINE,CORNWALL		9	3	156	0.02	0.3	0.3	A*C	
19930719	075301.5	50.11	-5.18	172.9	28.2	7.4	-0.2	CONSTANTINE,CORNWALL		11	3	162	0.02	0.2	0.2	A*C	
19930719	095548.9	50.11	-5.18	172.6	28.3	7.8	-0.2	CONSTANTINE,CORNWALL		10	3	169	0.04	0.5	0.4	A*C	
19930719	162653.6	50.11	-5.17	173.2	28.3	7.2	-0.2	CONSTANTINE,CORNWALL		13	3	155	0.03	0.3	0.2	A*C	
19930719	172405.3	50.11	-5.18	172.7	28.2	7.0	1.0	CONSTANTINE,CORNWALL		12	3	124	0.01	0.1	0.1	A*B	
19930719	172644.6	50.11	-5.18	172.9	28.0	7.0	-0.3	CONSTANTINE,CORNWALL		11	3	163	0.02	0.2	0.2	A*C	
19930719	174408.2	50.11	-5.18	172.9	28.2	7.4	-0.4	CONSTANTINE,CORNWALL		9	3	161	0.02	0.2	0.2	A*C	
19930720	001735.0	50.11	-5.18	172.6	28.2	7.2	0.1	CONSTANTINE,CORNWALL		14	3	123	0.02	0.1	0.2	A*B	
19930720	001745.8	50.11	-5.18	172.9	28.2	7.5	-0.5	CONSTANTINE,CORNWALL		8	3	162	0.02	0.2	0.3	A*C	
19930720	001757.0	50.11	-5.18	172.7	28.3	7.1	0.3	CONSTANTINE,CORNWALL		13	3	166	0.02	0.2	0.2	A*C	
19930720	033426.7	50.11	-5.18	172.5	28.2	6.9	-0.1	CONSTANTINE,CORNWALL		11	3	170	0.04	0.4	0.5	A*C	
19930720	034824.8	52.94	-5.49	165.7	343.5	7.6	1.6	IRISH SEA		22	59	134	0.20	0.5	1.5	B*D	
19930720	113633.3	50.11	-5.18	172.8	28.2	6.8	1.0	CONSTANTINE,CORNWALL		15	3	125	0.02	0.1	0.2	A*B	
19930720	113638.8	50.11	-5.18	172.6	28.4	6.7	0.4	CONSTANTINE,CORNWALL		14	3	121	0.02	0.1	0.2	A*B	
19930720	113711.4	50.11	-5.18	172.7	28.4	7.4	0.2	CONSTANTINE,CORNWALL		10	3	164	0.03	0.4	0.4	A*C	
19930720	125400.7	50.11	-5.19	172.2	28.4	6.8	0.1	CONSTANTINE,CORNWALL		11	3	173	0.02	0.2	0.1	A*C	
19930720	143158.1	50.11	-5.18	172.9	28.3	7.1	-0.1	CONSTANTINE,CORNWALL		10	3	161	0.02	0.2	0.2	A*C	
19930720	165010.7	50.11	-5.18	172.8	28.2	6.8	1.2	CONSTANTINE,CORNWALL		14	3	125	0.02	0.1	0.2	A*B	
19930720	233856.4	50.11	-5.18	172.4	28.3	7.2	-0.3	CONSTANTINE,CORNWALL		10	3	171	0.02	0.3	0.2	A*C	
19930720	234843.4	50.11	-5.18	172.7	28.3	7.1	-0.4	CONSTANTINE,CORNWALL		13	3	167	0.04	0.3	0.3	A*C	
19930721	214950.2	55.51	-4.68	230.5	626.9	0.0	0.9	EXPL-AYR BAY	2+	18	35	180	0.21	1.2	2.6	B*D	EXPL-FELT AYR BAY
19930722	075039.8	57.31	-6.07	155.1	831.6	3.3	0.0	ISLE OF SKYE,HIGHLAND		7	25	264	0.08	1.8	2.3	B*D	
19930724	132633.2	51.84	-2.89	339.0	216.0	9.2	0.1	ABERGAVENNY,GWENT		5	19	170	0.26	3.2	15.1	C*D	8KM EAST OF ABERGAVENNY
19930725	111228.9	52.73	-4.39	238.5	317.0	11.2	0.3	CARDIGAN BAY,WALES		6	20	205	0.09	1.3	3.8	B*D	17KM SOUTH OF PWLLHELI
19930725	124120.5	56.22	-5.16	204.4	707.6	0.5	0.7	INVERARAY,STRATHCLYDE		5	49	306	0.06	1.4	1.2	B*D	
19930727	040336.2	57.50	-5.37	197.8	850.7	4.0	1.3	GLEN CARRON,HIGHLAND		14	5	149	0.10	0.5	0.6	A*C	
19930727	060735.9	53.26	3.76	784.2	388.8	0.3	2.9	SOUTHERN NORTH SEA		31	163	178	0.36	1.7	2.2	C*D	
19930728	035240.0	51.56	-2.30	379.5	185.1	8.6	1.9	CHIPPING SODBURY,AVON		17	36	260	0.22	2.0	1.7	B*D	8KM NE CHIPPING SODBURY
19930730	104305.9	54.26	-0.47	499.8	486.6	0.3	2.2	EXPL-SCARBOROUGH		26	160	246	0.38	3.9	5.2	C*D	EXPL-ORDNANCE DETONATION
19930730	223412.5	50.11	-5.18	172.3	28.1	6.9	0.4	CONSTANTINE,CORNWALL		14	3	173	0.03	0.2	0.2	A*C	
19930730	223954.6	55.94	-3.06	333.7	671.8	2.7	0.2	MUSSELBURGH,LOTHIAN		6	8	193	0.10	0.3	4.7	B*D	C/F
19930801	134038.7	53.28	-4.62	225.3	378.9	11.3	0.0	HOLY ISLAND,GWYNEDD		8	4	226	0.04	0.6	0.7	A*D	
19930803	212205.2	56.34	-6.14	144.0	724.1	7.4	1.2	MULL,STRATHCLYDE		6	106	351	0.07	3.6	3.3	C*D	
19930806	111339.9	52.41	-2.17	388.2	279.1	7.6	1.0	WEST HAGLEY,W MIDLANDS		8	49	283	0.18	2.1	2.8	B*D	
19930807	020703.3	50.59	-4.72	207.3	80.7	3.1	0.2	TINTAGEL,CORNWALL		8	29	346	0.12	7.3	2.8	D*D	SOUTH OF TINTAGEL
19930807	035009.9	49.56	-4.96	185.7	-34.0	1.1	1.0	LIZARD POINT,CORNWALL		9	57	336	0.09			D*D	SE OF LIZARD POINT
19930807	141228.8	56.13	-3.73	292.4	694.0	0.3	0.8	CLACKMANNAN,CENTRAL		10	19	93	0.06	0.3	0.7	A*C	C/F
19930807	141234.2	56.13	-3.74	292.1	694.9	0.3	1.0	CLACKMANNAN,CENTRAL		10	19	128	0.29	1.1	1.8	B*C	C/F
19930807	233437.7	53.49	-2.33	377.9	400.0	19.6	1.6	SALFORD,GTR MANCHESTER		23	69	74	0.25	0.6	3.0	B*D	
19930808	115919.2	55.47	-5.10	204.1	623.4	7.6	1.6	ARRAN,STRATHCLYDE		19	34	141	0.09	0.3	1.3	A*C	
19930811	033601.6	54.49	-3.25	318.8	511.9	8.2	-0.2	BUTTERMERE,CUMBRIA		9	5	125	0.12	0.5	1.3	A*B	
19930811	200540.0							SONIC-FIFE									SONIC-FELT ST ANDREWS
19930811	230821.2	55.37	-1.52	430.5	608.3	4.0	1.7	AMBLE,NORTHUMBERLAND		19	48	292	0.31	2.0	2.4	C*D	C/F - OFFSHORE
19930812	163939.2	54.58	-3.78	285.1	522.4	5.2	1.3	WHITEHAVEN,CUMBRIA		32	21	64	0.18	0.4	1.2	B*C	OFFSHORE LOCATION
19930813	164342.7	50.11	-5.18	172.8	28.2	5.6	0.7	CONSTANTINE,CORNWALL		17	3	84	0.02	0.1	0.1	A*A	
19930813	204506.3	50.10	-5.17	173.4	27.4	5.1	0.0	CONSTANTINE,CORNWALL		12	4	139	0.04	0.2	0.4	A*C	

TABLE 1: CATALOGUE OF EVENTS LISTED CHRONOLOGICALLY: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930814	052005.9	50.11	-5.18	172.9	28.2	5.3	0.4	CONSTANTINE,CORNWALL		15	3	127	0.01	0.1	0.2	A*B	
19930814	175755.5	50.11	-5.18	173.0	28.2	5.5	0.1	CONSTANTINE,CORNWALL		15	3	128	0.01	0.1	0.1	A*B	
19930814	191456.1	52.89	-3.50	298.9	333.4	9.9	0.9	BALA,GWYNEDD		17	16	117	0.06	0.3	0.4	A*B	7KM SE OF BALA
19930817	082554.2	52.93	-4.35	241.8	339.3	13.1	0.3	PWLLHELI,GWYNEDD		7	8	114	0.07	0.5	1.0	A*B	7KM NE OF PWLLHELI
19930817	190634.7	57.01	-5.77	171.4	797.7	6.9	-0.2	MALLAIG,HIGHLAND		9	11	171	0.22	5.0	7.6	C*C	
19930818	023803.2	56.13	-3.73	292.5	694.3	0.8	0.7	CLACKMANNAN,CENTRAL		16	19	85	0.07	0.2	0.4	A*C	C/F
19930819	194554.7	54.64	-3.27	317.8	528.0	13.0	0.7	COCKERMOUTH,CUMBRIA		15	11	68	0.10	0.4	0.8	A*A	6KM SE OF COCKERMOUTH
19930819	202330.5	54.63	-3.28	317.2	527.3	10.1	0.4	COCKERMOUTH,CUMBRIA		13	12	103	0.08	0.4	0.9	A*B	6KM SE OF COCKERMOUTH
19930824	231230.9	55.21	-5.42	182.6	595.6	0.4	2.0	EXPL-NORTH CHANNEL		33	102	223	0.33	1.7	2.3	C*D	EXPL-ORDNANCE DETONATION
19930827	084902.2	51.89	-2.24	383.5	221.5	21.9	0.9	GLOUCESTER,GL'SHIRE		5	27	267	0.05	1.5	2.9	B*D	
19930828	123048.6	57.33	-6.10	153.1	834.2	3.8	0.4	ISLE OF SKYE,HIGHLAND		8	27	268	0.12	1.4	1.3	B*D	
19930830	051556.0	59.03	1.62	607.9	1021.6	22.3	1.9	NORTHERN NORTH SEA		10	228	177	0.25	2.9	4.1	C*D	
19930831	013949.3	57.27	-5.45	192.3	825.2	2.3	-0.1	LOCH DUICH,HIGHLAND		6	7	149	0.08	0.2	0.4	A*C	
19930831	020159.9	54.79	-3.89	278.3	546.2	7.8	0.8	DUNDRENNAN,D & G		19	8	124	0.07	0.3	0.8	A*B	3KM ESE OF DUNDRENNAN
19930901	192606.2	50.11	-5.18	172.7	28.3	7.2	-0.2	CONSTANTINE,CORNWALL		10	3	165	0.03	0.3	0.3	A*C	
19930903	211019.7	52.15	-2.47	368.1	250.4	18.3	0.4	BROMYARD,HER & WOR		9	14	238	0.14	1.5	2.2	B*D	
19930904	061348.3	57.03	-5.79	169.9	799.9	3.8	0.3	MALLAIG,HIGHLAND		5	13	184	0.17	1.0	7.8	C*D	MAGNITUDE FROM VERTICALS
19930904	064528.9	57.03	-5.79	170.1	799.7	2.0	0.3	MALLAIG,HIGHLAND		8	13	182	0.15	0.6	0.5	A*D	
19930904	071455.1	57.03	-5.78	170.4	799.5	2.7	2.7	MALLAIG,HIGHLAND	3+	14	13	119	0.08	0.3	0.7	A*C	FELT MALLAIG
19930904	071629.1	57.03	-5.78	170.8	799.4	2.4	0.7	MALLAIG,HIGHLAND		7	13	178	0.18	0.4	0.4	B*C	
19930904	080444.9	57.03	-5.78	170.9	799.7	2.8	0.4	MALLAIG,HIGHLAND		9	13	116	0.08	0.4	1.0	A*C	
19930904	102300.8	57.02	-5.77	170.9	798.9	3.4	0.1	MALLAIG,HIGHLAND		5	12	176	0.12	1.0	16.5	C*D	MAGNITUDE FROM VERTICALS
19930904	103223.6	57.03	-5.78	170.5	799.8	2.8	0.2	MALLAIG,HIGHLAND		5	13	181	0.18	1.4		C*D	MAGNITUDE FROM VERTICALS
19930904	180442.6	57.03	-5.78	170.4	799.4	3.3	0.1	MALLAIG,HIGHLAND		7	13	180	0.12	1.7	4.5	B*D	
19930905	094819.3	57.03	-5.78	170.6	799.2	2.7	2.0	MALLAIG,HIGHLAND		14	13	117	0.08	0.3	0.8	A*C	
19930906	022831.8	53.07	2.55	704.4	362.2	3.8	2.3	SOUTHERN NORTH SEA		16	78	313	0.08	1.1	1.2	B*D	
19930906	024704.8	53.06	-1.00	466.9	351.8	1.0	1.7	OXTON,NOTTINGHAMSHIRE		21	30	149	0.24	0.7	0.9	B*C	C/F
19930906	164955.7	57.03	-5.76	171.6	799.0	3.1	0.1	MALLAIG,HIGHLAND		5	13	173	0.09	1.0		C*D	MAGNITUDE FROM VERTICALS
19930907	011419.8	57.03	-5.78	170.9	799.1	2.9	0.1	MALLAIG,HIGHLAND		7	13	177	0.06	0.6	1.7	A*C	
19930907	021934.1	56.12	-3.73	292.6	693.7	0.7	1.2	CLACKMANNAN,CENTRAL		16	19	83	0.09	0.3	0.4	A*C	C/F
19930910	225447.6	55.24	-3.49	305.2	594.8	4.5	-0.1	JOHNSTONEBRIDGE,D & G		8	13	188	0.13	0.2	3.5	B*D	
19930911	052537.3	57.02	-5.79	170.0	798.9	2.9	0.7	MALLAIG,HIGHLAND		11	12	120	0.10	0.5	1.1	A*C	
19930911	062503.7	55.24	-3.49	305.2	594.9	4.5	0.0	JOHNSTONEBRIDGE,D & G		8	13	189	0.12	0.1	3.3	B*D	
19930911	130112.7	57.02	-5.76	171.6	798.7	4.0	0.6	MALLAIG,HIGHLAND		9	12	112	0.06	0.3	0.6	A*C	
19930912	123810.4	52.11	-3.36	306.9	246.8	15.8	0.7	BUILTH WELLS,POWYS		7	7	175	0.06	1.2	0.6	B*C	5KM SE BUILTH WELLS
19930912	131318.8	55.85	-4.25	259.0	664.5	0.3	0.2	EXPL-GLASGOW	2+	7	15	148	0.19	1.0	1.6	B*C	EXPL-FLAT DEMOLITION
19930912	204236.1	57.02	-5.76	171.6	798.8	2.5	0.6	MALLAIG,HIGHLAND		9	12	172	0.15	0.3	0.4	B*C	
19930913	184813.5	55.24	-3.49	304.9	594.7	3.8	0.6	JOHNSTONEBRIDGE,D & G		11	12	188	0.14	0.4	1.2	A*D	
19930913	190255.6	52.02	-3.52	295.6	236.9	14.5	1.3	BRECON,POWYS		8	18	214	0.09	0.9	0.6	A*D	12KM NW BRECON
19930914	161504.3	56.13	-3.74	291.7	694.0	2.0	0.9	CLACKMANNAN,CENTRAL		12	20	86	0.11	0.4	0.6	A*C	C/F
19930915	031557.1	57.03	-5.77	171.0	799.2	3.7	0.1	MALLAIG,HIGHLAND		6	13	176	0.10	0.2	2.3	B*C	
19930915	125847.6	57.61	-4.89	227.1	861.4	3.6	1.2	LOCH FANNICH,HIGHLAND		9	27	167	0.11	0.9	1.4	A*C	
19930916	014910.1	53.44	2.52	700.1	403.3	7.8	2.8	SOUTHERN NORTH SEA		14	145	231	0.08	0.8	1.1	A*D	
19930916	132631.1	52.31	-2.73	350.1	268.7	14.1	1.8	LUDLOW,SHROPSHIRE		19	25	94	0.16	0.6	0.7	B*B	7KM SOUTH OF LUDLOW
19930916	221635.8	55.24	-3.49	305.4	594.8	4.3	0.4	JOHNSTONEBRIDGE,D & G		11	13	188	0.12	0.9		C*D	
19930917	013954.4	52.32	-2.73	350.3	269.0	14.5	2.3	LUDLOW,SHROPSHIRE		29	25	94	0.15	0.4	0.4	B*B	6KM SOUTH OF LUDLOW
19930917	052900.7	57.03	-5.78	170.8	799.8	2.5	0.3	MALLAIG,HIGHLAND		7	13	179	0.17	1.7	4.7	B*C	
19930917	055752.6	50.24	-6.65	68.5	48.4	2.4	1.8	SCILLY ISLES,CORNWALL		14	77	351	0.27			D*D	SW OF SCILLY ISLES
19930917	100821.8	57.03	-5.76	172.0	799.1	3.0	0.4	MALLAIG,HIGHLAND		9	13	170	0.10	1.0	2.1	B*C	
19930917	121905.8	52.74	-4.96	200.2	319.9	13.9	0.5	IRISH SEA		15	25	141	0.22	1.1	4.2	B*C	

TABLE 1: CATALOGUE OF EVENTS LISTED CHRONOLOGICALLY: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930918	031415.2	56.12	-3.73	292.5	693.7	2.0	0.8	CLACKMANNAN,CENTRAL		15	20	83	0.08	0.3	0.4	A*C	C/F
19930920	192855.0							EXPL(IMPACT)-PRESTWICK									SUSPECTED METEORITE
19930921	020051.0	56.13	-3.73	292.4	694.0	0.9	0.5	CLACKMANNAN,CENTRAL		9	19	125	0.06	0.3	0.4	A*C	C/F
19930921	035848.2	52.17	-2.50	366.0	252.4	15.3	0.5	BROMYARD,HER & WOR		8	15	228	0.16	1.7	1.5	B*D	
19930921	072544.9	52.16	-2.47	367.6	251.5	14.6	1.1	BROMYARD,HER & WOR		12	15	233	0.17	1.4	1.0	B*D	
19930921	091706.8	53.04	-2.20	386.7	349.4	4.4	1.5	STOKE-ON-TRENT,STAFFS		16	24	173	0.08	0.4	0.4	A*C	
19930922	010055.6	53.12	-1.06	463.0	358.6	1.0	1.3	BILSTHORPE,NOTTS		8	36	141	0.28	1.8	2.7	B*C	C/F
19930923	005422.2	56.06	-3.99	276.3	687.3	3.7	0.3	BANNOCKBURN,CENTRAL		7	11	165	0.18	0.5	5.8	C*C	
19930923	023744.8	56.13	-3.73	292.5	694.2	0.6	1.2	CLACKMANNAN,CENTRAL		20	19	82	0.09	0.2	0.4	A*C	C/F
19930923	024413.8	56.13	-3.74	292.0	694.2	1.2	0.6	CLACKMANNAN,CENTRAL		14	20	82	0.09	0.3	0.5	A*C	C/F
19930923	140411.4	55.06	-5.04	206.0	577.8	0.0	1.8	EXPL-STRANRAER		4	73	285	0.03			A*D	EXPL-ORDNANCE DETONATION
19930923	172155.3	55.24	-3.49	305.3	594.6	4.5	-0.2	JOHNSTONEBRIDGE,D & G		8	13	186	0.13	0.2	4.5	B*D	
19930923	183625.5	55.24	-3.49	305.4	594.5	4.2	-0.1	JOHNSTONEBRIDGE,D & G		8	13	186	0.12	1.0		C*D	
19930923	190436.6	57.03	-5.79	169.9	799.4	2.8	0.2	MALLAIG,HIGHLAND		8	13	183	0.14	1.6	3.0	B*D	
19930923	195556.5	55.24	-3.49	305.3	594.7	3.9	0.2	JOHNSTONEBRIDGE,D & G		12	13	187	0.14	0.4	1.0	A*D	
19930924	105428.0	57.02	-5.77	171.1	798.6	2.8	0.4	MALLAIG,HIGHLAND		9	12	114	0.10	0.5	1.2	A*C	
19930924	105846.3	57.03	-5.78	170.7	799.2	2.5	0.1	MALLAIG,HIGHLAND		7	13	178	0.12	1.5	3.7	B*C	
19930924	110047.7	57.03	-5.78	170.3	799.1	2.2	0.7	MALLAIG,HIGHLAND		7	12	180	0.09	0.3	0.4	A*D	
19930924	114532.2	53.32	-1.71	419.6	380.1	2.2	1.4	BAKEWELL,DERBYSHIRE		13	35	297	0.39	9.4	7.4	D*D	
19930925	014203.8	57.54	-5.35	199.3	854.7	4.0	1.7	COULIN FOREST,HIGHLAND	2+	22	5	154	0.24	0.8	1.2	B*C	FELT COULIN
19930925	095603.0	54.74	-2.76	351.2	538.4	3.5	0.9	PLUMPTON,CUMBRIA		18	14	143	0.09	0.4	1.8	A*C	
19930926	214617.1	52.36	-1.85	410.2	273.2	9.4	1.3	BIRMINGHAM,W MIDLANDS		14	43	139	0.38	1.6	8.4	C*C	
19930927	035507.5	55.24	-3.49	305.3	594.8	4.2	0.6	JOHNSTONEBRIDGE,D & G		12	13	188	0.15	0.8		C*D	
19930927	035532.5	55.24	-3.49	305.1	595.3	6.1	0.2	JOHNSTONEBRIDGE,D & G		10	13	191	0.15	0.7	3.4	B*D	
19930927	043903.6	55.24	-3.49	305.1	594.9	4.7	-0.2	JOHNSTONEBRIDGE,D & G		8	13	189	0.12	0.2	4.5	B*D	
19930927	093901.1	55.24	-3.49	305.5	594.6	5.4	-0.2	JOHNSTONEBRIDGE,D & G		8	13	186	0.14	0.9	7.2	C*D	
19930927	135412.6	52.31	-2.73	350.3	268.6	14.2	1.6	LUDLOW,SHROPSHIRE		12	25	94	0.16	0.7	0.9	B*B	7KM SOUTH OF LUDLOW
19930928	003603.0	53.38	-4.45	237.2	389.8	14.3	0.6	ANGLESEY,GWYNEDD		13	7	89	0.07	0.4	0.4	A*A	
19930928	125936.5	58.36	1.42	600.0	946.4	11.2	2.0	NORTHERN NORTH SEA		15	239	179	0.23	1.0	1.9	B*D	
19930930	063409.4	56.07	-4.72	231.0	689.4	4.6	0.8	GLEN FRUIN,STRATHCLYDE		10	25	236	0.09	0.8	0.9	A*D	
19930930	213307.1	56.60	-5.08	211.1	749.1	7.1	1.1	GLEN ETIVE,HIGHLAND		17	26	142	0.08	0.3	0.9	A*C	
19931001	071401.3	52.97	-4.41	238.4	344.7	20.7	0.4	LLEYN PENINSULA		13	1	96	0.10	0.5	0.8	A*B	
19931002	232843.8	54.33	-3.23	320.2	493.0	13.4	0.9	DUNNERDALE,CUMBRIA		18	2	142	0.07	0.4	0.4	A*C	
19931004	202148.0	61.81	1.51	584.91	330.4	1.4	2.2	NORWEGIAN SEA		12	189	210	0.26	3.6	3.3	C*D	
19931005	020514.8	52.77	-2.11	392.3	319.6	8.6	2.2	STAFFORD,STAFFORDSHIRE		20	33	101	0.09	0.4	0.7	A*C	
19931008	064648.3	56.28	-5.20	202.2	714.2	0.6	1.3	LOCH AWE,STRATHCLYDE		11	54	287	0.12	2.9	2.1	C*D	
19931011	094334.0	53.14	-3.73	284.6	361.9	9.3	2.3	BETWS-Y-COED,GWYNEDD	3+	32	18	115	0.22	0.6	0.9	B*B	FELT BETWS-Y-COED...
19931011	225401.2	56.53	-5.70	172.5	743.2	2.4	1.3	LOCHALINE,STRATHCLYDE		12	44	208	0.17	1.3	1.0	B*D	
19931014	135424.4	52.99	-3.89	272.9	345.4	0.4	0.9	EXPL-BL.FFEST,GWYNEDD	2+	15	25	104	0.22	0.8	4.3	B*C	EXPL-FELT BL.FFESTINIOG
19931020	023320.0	53.44	-1.23	451.1	394.4	0.2	1.5	MALTBY,S YORKSHIRE		11	43	166	0.33	1.7	2.5	C*C	C/F
19931020	120141.9	55.87	-3.97	276.7	666.1	0.3	1.0	EXPL-AIRDRIE	2+	10	33	226	0.10	0.6	0.6	A*D	EXPL-FELT AIRDRIE
19931020	221123.2	55.90	-3.06	333.8	667.6	0.1	0.1	DALKEITH,LOTHIAN		5	8	155	0.09	0.7	0.9	A*D	C/F
19931022	205700.0							SONIC-SWANSEA									SONIC-FELT SWANSEA...
19931024	003143.5	55.87	-3.09	331.6	664.6	0.1	-0.1	BONNYRIGG,LOTHIAN		6	8	208	0.06	1.4	0.9	B*D	C/F
19931024	050702.2	50.65	-4.06	254.6	85.0	8.7	1.7	OKEHAMPTON,DEVON		18	25	138	0.25	0.4	5.4	C*C	SW OF OKEHAMPTON
19931024	170300.0							SONIC-SWANSEA									SONIC-FELT SWANSEA...
19931024	220909.3	52.54	-3.45	301.9	294.2	20.9	1.7	NEWTOWN,POWYS		20	26	81	0.06	0.2	0.5	A*B	
19931027	101200.0							SONIC-NORTHUMBERLAND									SONIC-FELT AMBLE
19931027	194828.0							SONIC-FIFE									SONIC-FELT KIRKCALDY...
19931028	170640.3	52.87	-2.82	345.0	330.6	1.6	1.2	WHITCHURCH,STAFFS		8	30	251	0.05	1.7	1.7	B*D	

TABLE 1: CATALOGUE OF EVENTS LISTED CHRONOLOGICALLY: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19931029	141749.9	55.34	-2.26	383.3	605.3	12.4	1.3	BYRNESS,NORTHUMBERLAND		21	17	174	0.06	0.3	0.5	A*C	
19931102	002336.6	55.99	-5.56	177.9	683.4	8.5	0.8	KNAPDALE,STRATHCLYDE		8	54	243	0.20	2.4	4.4	B*D	10KM SW OF LOCHGILPHEAD
19931102	163402.3	56.03	-3.64	297.7	682.8	6.1	0.7	BO'NESS,CENTRAL		14	24	94	0.09	0.3	0.5	A*C	
19931103	213837.0	57.56	-5.20	208.5	857.1	6.6	0.3	GLEN CARRON,HIGHLAND		6	9	331	0.01	0.0	0.0	A*D	
19931105	121955.3	57.69	-1.78	413.3	867.0	0.3	1.0	EXPL-OFF FRASERBURGH		8	32	293	0.07	2.2	1.4	B*D	EXPL-CONTRIBAND EXPLODED
19931110	013840.8	56.13	-3.73	292.3	694.2	1.0	0.8	CLACKMANNAN,CENTRAL		11	19	82	0.07	0.3	0.6	A*C	C/F - DOUBLE EVENT
19931111	175246.4	53.32	-0.97	468.7	381.1	0.0	2.2	RANSKILL,NOTTS	5+	16	45	77	0.32	1.4	2.2	C*C	C/F,FELT RANSKILL
19931112	062419.6	50.22	-5.27	166.9	41.1	1.4	0.8	CAMBORNE,CORNWALL		13	5	306	0.03	0.3	0.8	A*D	NR SOUTH CROFTY TIN MINE
19931113	111038.3	56.82	-5.89	162.3	776.6	6.1	1.1	LOCH MOIDART,HIGHLAND		17	12	228	0.12	1.2	0.6	B*D	OFFSHORE LOCATION
19931113	195439.5	55.33	-2.30	381.0	603.6	8.6	1.0	BYRNESS,NORTHUMBERLAND		21	19	165	0.06	0.2	1.0	A*C	
19931115	004855.8	54.25	-0.37	506.1	484.9	31.0	2.0	SCARBOROUGH,N YORKS		10	22	242	0.08	1.3	0.7	B*D	
19931115	073333.7	56.55	-4.31	258.1	741.8	2.5	1.1	GLEN LYON,TAYSIDE		8	38	267	0.06	1.2	0.8	B*D	6KM S OF INNERWICK
19931117	042600.2	56.14	-3.72	292.9	695.5	0.3	0.5	CLACKMANNAN,CENTRAL		10	18	130	0.14	0.6	0.9	A*C	C/F
19931117	094901.8	56.13	-3.73	292.6	694.2	0.6	0.8	CLACKMANNAN,CENTRAL		11	19	85	0.08	0.3	0.5	A*C	C/F - DOUBLE EVENT
19931118	015204.4	56.12	-3.73	292.4	693.4	1.4	0.8	CLACKMANNAN,CENTRAL		10	20	87	0.08	0.3	0.6	A*C	C/F
19931121	055405.9	56.34	-5.18	203.7	720.8	5.9	1.1	LOCH AWE,STRATHCLYDE		11	54	287	0.19	4.4	8.2	C*D	
19931123	211100.9	56.13	-3.73	292.5	694.2	1.9	0.9	CLACKMANNAN,CENTRAL		22	19	82	0.13	0.3	0.5	A*C	C/F
19931127	020546.4	54.28	-3.50	302.4	488.6	9.4	0.2	TARN BAY,CUMBRIA		5	14	278	0.25	4.8	9.9	C*D	OFFSHORE LOCATION
19931127	195606.5	53.13	-4.39	239.9	362.1	10.3	0.2	CAERNARVON BAY,GWYNEDD		10	15	112	0.06	0.4	1.2	A*B	
19931205	164055.3	56.10	-4.72	231.0	693.6	6.9	0.8	GLEN LUSS,STRATHCLYDE		8	25	261	0.03	0.6	1.1	A*D	
19931211	224139.8	56.31	-5.97	154.4	720.3	6.8	1.3	MULL,STRATHCLYDE		13	68	245	0.09	1.3	2.0	B*D	
19931213	040513.1	57.62	-5.13	213.3	863.5	5.8	0.6	KINLOCHEWE,HIGHLAND		7	17	249	0.05	0.7	0.5	A*D	8KM EAST OF KINLOCHEWE
19931213	085953.9	55.16	4.55	816.7	604.7	20.4	3.4	CENTRAL NORTH SEA		24	415	216	0.27	1.8	2.7	B*D	
19931214	021724.0	55.37	-1.34	442.0	608.6	0.7	1.5	AMBLE,NORTHUMBERLAND		131	00	332	0.08	2.4	1.8	B*D	C/F - OFFSHORE
19931215	153043.0	51.67	-3.26	312.8	197.4	5.0	1.3	BARGOED,MID GLAMORGAN		8	32	182	0.08	0.7	17.4	C*D	C/F
19931216	110520.5	56.96	-4.50	248.2	788.5	2.6	1.9	LOCH LAGGAN,HIGHLAND		18	33	68	0.17	0.7	1.9	B*C	
19931219	100246.9	55.85	-3.11	330.3	662.8	0.5	0.4	ROSEWELL,LOTHIAN		5	9	184	0.03	3.8	2.7	C*D	C/F
19931223	052816.4	56.13	-3.73	292.1	694.4	1.8	0.5	CLACKMANNAN,CENTRAL		11	19	84	0.09	0.4	0.6	A*C	C/F - DOUBLE EVENT
19931223	074928.7	56.13	-3.73	292.2	694.6	0.9	0.7	CLACKMANNAN,CENTRAL		12	19	84	0.11	0.4	0.6	A*C	C/F
19931224	014446.8	56.12	-3.73	292.4	693.7	1.5	1.1	CLACKMANNAN,CENTRAL		16	20	81	0.09	0.3	0.4	A*C	C/F
19931224	194545.8	51.79	-3.00	331.1	211.1	14.6	1.3	ABERGAVENNY,GWENT		15	22	66	0.18	0.8	0.8	B*B	
19931225	022055.5	52.88	-3.52	297.9	332.8	10.8	1.2	BALA,GWYNEDD		18	18	113	0.09	0.4	0.6	A*B	6KM SE OF BALA
19931226	192701.3	50.93	-1.33	446.9	115.2	7.0	1.2	SOUTHAMPTON,HAMPSHIRE		11	30	117	0.19	0.7	3.0	B*C	
19931227	052045.9	61.25	2.85	660.0	1273.1	17.9	4.3	NORTHERN NORTH SEA		48	123	169	0.38	1.0	1.9	C*D	
19931227	194430.8	56.80	-5.44	189.7	773.2	2.8	0.7	LOCH SHIEL,HIGHLAND		9	27	213	0.09	0.7	1.3	A*D	
19931230	184843.3	52.12	-2.57	360.8	247.4	15.5	0.5	HEREFORD,HER & WOR		6	10	196	0.02	0.3	0.3	A*D	13KM NE OF HEREFORD
19931231	014531.7	53.07	-1.41	439.3	352.7	0.1	0.6	MATLOCK,DERBYSHIRE		5	22	122	0.54	6.6		D*D	C/F
19931231	212058.7	51.60	-3.60	289.4	190.7	7.7	1.9	PONTYCYMER,W GLAMORGAN		17	42	75	0.12	0.4	1.4	A*C	

TABLE 2

CATALOGUE OF EARTHQUAKES LISTED IN ORDER OF DECREASING LATITUDE: 1993

KEY TO BULLETIN ENCODING

YearMoDy	:	Year, month and day of event.
HrMn Secs	:	Time of occurrence of event in hours, mins and secs, (UTC).
Lat	:	Latitude of the event, positive latitude indicates north.
Lon	:	Longitude of the event, negative longitude indicates west.
kmE	:	UK National Grid Reference in kilometres east of grid origin.
kmN	:	UK National Grid Reference in kilometres north of grid origin.
Dep	:	Depth of the hypocentre in kilometres.
Mag	:	Richter local magnitude of the event.
Locality	:	A geographical indication of the epicentral area, usually the nearest town followed by the region. A key to the abbreviations used in the locality column are given below.
Int	:	Maximum MSK intensity. 2+ indicates felt, no macroseismic details. 3+, 4+ etc indicates felt at 3 or 4, but no survey carried out. 3, 4, 5 etc describes the maximum MSK intensity produced by the event.
Comments	:	Additional comments about the event eg: C/F, see below under comments abbreviations.

The following abbreviations are extracted from the output of the location program HYPO71 (Lee and Lahr,1975)

No	:	Total number of P and S readings used in the event location.
DM	:	Epicentral distance in kilometres to the closest station.
Gap	:	Largest azimuthal separation in degrees between stations.
RMS	:	Root Mean Square of the travel-time residuals in seconds.
ERH	:	Standard error of the epicentre in kilometres. When this column is blank, the error is large and indeterminate.
ERZ	:	Standard error of the focal depth in kilometres. When this column is blank, the error is large and indeterminate.
SQD	:	S is quality factor ascribed to RMS, D is quality ascribed to number and distribution of stations.

Locality abbreviations

Sonic	:	Sonic boom	M Glamorgan	:	Mid Glamorgan
Expl	:	Explosion	Notts	:	Nottinghamshire
D & G	:	Dumfries and Galloway	Gl'shire	:	Gloucestershire
Her & Wor	:	Hereford and Worcester	S Yorks(hire)	:	South Yorkshire
Gtr Manchester	:	Greater Manchester	Leics	:	Leicestershire
Cambs	:	Cambridgeshire	W Midlands	:	West Midlands
Prt	:	Port	N Uist	:	North Uist
Staffs	:	Staffordshire	W Isles	:	Western Isles

Comments abbreviations

Sonic	:	Sonic boom
Expl	:	Explosion
C/F	:	Coalfield type event
...	:	and felt elsewhere

TABLE 2: CATALOGUE OF EARTHQUAKES LISTED IN ORDER OF DECREASING LATITIDE: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930505	140738.1	62.08	2.27	622.91	363.3	10.8	2.2	NORWEGIAN SEA		15	175	212	0.42	2.8	3.9	C*D	
19931004	202148.0	61.81	1.51	584.91	330.4	1.4	2.2	NORWEGIAN SEA		12	189	210	0.26	3.6	3.3	C*D	
19930628	172723.8	61.65	2.31	628.31	314.8	10.2	2.1	NORWEGIAN SEA		10	146	228	0.39	7.8	7.0	D*D	
19930529	174341.4	61.52	1.90	607.41	299.7	16.7	2.7	NORWEGIAN SEA		16	167	192	0.28	2.2	3.5	B*D	
19931227	052045.9	61.25	2.85	660.01	273.1	17.9	4.3	NORTHERN NORTH SEA		48	123	169	0.38	1.0	1.9	C*D	
19930519	072412.7	60.50	2.00	619.61	186.3	22.3	2.1	NORTHERN NORTH SEA		10	163	156	0.13	1.0	2.0	A*D	
19930614	073730.8	60.41	2.18	630.01	176.4	19.8	2.3	NORTHERN NORTH SEA		13	167	149	0.38	2.2	3.9	C*D	
19930507	113000.5	59.07	-3.37	321.31	021.0	7.2	1.7	WEST OF ORKNEY		9	85	206	0.12	1.7	0.8	B*D	
19930830	051556.0	59.03	1.62	607.91	021.6	22.3	1.9	NORTHERN NORTH SEA		10	228	177	0.25	2.9	4.1	C*D	
19930629	004558.2	58.99	1.39	594.81	016.4	21.8	2.8	NORTHERN NORTH SEA		22	188	135	0.39	1.4	3.1	C*D	
19930211	194612.6	58.97	1.45	598.31	013.8	6.4	3.8	NORTHERN NORTH SEA		36	192	159	0.39	1.1	2.1	C*D	
19930502	190825.8	58.92	0.93	568.61	007.6	15.0	2.3	NORTHERN NORTH SEA		17	173	264	0.39	7.0	7.8	D*D	
19930406	064106.2	58.67	1.01	574.4	979.5	25.8	3.5	NORTHERN NORTH SEA		34	197	181	0.24	1.2	2.3	B*D	
19930610	113014.3	58.44	0.29	533.9	952.7	15.0	1.8	NORTHERN NORTH SEA		3	196	357	0.35			C*D	
19930928	125936.5	58.36	1.42	600.0	946.4	11.2	2.0	NORTHERN NORTH SEA		15	239	179	0.23	1.0	1.9	B*D	
19931213	040513.1	57.62	-5.13	213.3	863.5	5.8	0.6	KINLOCHEWE,HIGHLAND		7	17	249	0.05	0.7	0.5	A*D	8KM EAST OF KINLOCHEWE
19930426	194344.9	57.61	-7.29	84.2	870.6	0.5	1.4	NORTH UIST,W ISLES		11	39	325	0.17	4.2	3.3	C*D	
19930915	125847.6	57.61	-4.89	227.1	861.4	3.6	1.2	LOCH FANNICH,HIGHLAND		9	27	167	0.11	0.9	1.4	A*C	
19931103	213837.0	57.56	-5.20	208.5	857.1	6.6	0.3	GLEN CARRON,HIGHLAND		6	9	331	0.01	0.0	0.0	A*D	
19930925	014203.8	57.54	-5.35	199.3	854.7	4.0	1.7	COULIN FOREST,HIGHLAND	2+	22	5	154	0.24	0.8	1.2	B*C	FELT COULIN
19930727	040336.2	57.50	-5.37	197.8	850.7	4.0	1.3	GLEN CARRON,HIGHLAND		14	5	149	0.10	0.5	0.6	A*C	
19930828	123048.6	57.33	-6.10	153.1	834.2	3.8	0.4	ISLE OF SKYE,HIGHLAND		8	27	268	0.12	1.4	1.3	B*D	
19930722	075039.8	57.31	-6.07	155.1	831.6	3.3	0.0	ISLE OF SKYE,HIGHLAND		7	25	264	0.08	1.8	2.3	B*D	
19930429	180140.3	57.30	-6.06	155.3	830.6	2.9	1.7	ISLE OF SKYE,HIGHLAND		17	25	134	0.09	0.3	0.9	A*C	
19930525	182537.9	57.30	-6.12	151.7	831.3	4.7	0.4	ISLE OF SKYE,HIGHLAND		7	29	193	0.05	1.0	0.8	A*D	
19930609	190242.6	57.29	-5.64	180.5	828.0	0.2	-0.3	PLOCKTON,HIGHLAND		4	6	230	0.03			A*D	
19930831	013949.3	57.27	-5.45	192.3	825.2	2.3	-0.1	LOCH DUICH,HIGHLAND		6	7	149	0.08	0.2	0.4	A*C	
19930312	152803.7	57.23	-5.66	178.9	821.5	4.5	-0.3	ISLE OF SKYE,HIGHLAND		4	12	264	0.02			A*D	
19930202	081509.1	57.22	-5.43	192.7	820.1	3.3	0.8	SHIEL BRIDGE,HIGHLAND		7	2	142	0.07	0.7	0.9	A*C	
19930712	020852.3	57.21	-5.45	191.7	818.8	5.7	0.0	SHIEL BRIDGE,HIGHLAND		6	2	114	0.10	1.2	0.7	B*B	
19930702	111516.4	57.19	-5.28	202.0	815.4	6.7	0.2	GLEN SHIEL,HIGHLAND		6	9	288	0.05	1.0	0.6	B*D	
19930326	033704.4	57.12	-5.54	185.5	808.6	16.0	0.4	KNOYDART,HIGHLAND		9	12	127	0.11	0.7	1.5	A*B	
19930317	045037.5	57.11	-5.39	194.5	807.1	8.6	0.8	KINLOCH HOURN,HIGHLAND		6	30	173	0.35	0.2	7.1	C*C	
19930615	163436.7	57.06	-5.75	172.5	803.1	5.7	2.3	KNOYDART,HIGHLAND		35	17	175	0.20	1.3	1.3	B*C	
19930404	081357.3	57.03	-5.79	170.0	799.7	2.7	0.7	MALLAIG,HIGHLAND		6	13	183	0.08	1.7	3.0	B*D	
19930904	061348.3	57.03	-5.79	169.9	799.9	3.8	0.3	MALLAIG,HIGHLAND		5	13	184	0.17	1.0	7.8	C*D	MAGNITUDE FROM VERTICALS
19930904	064528.9	57.03	-5.79	170.1	799.7	2.0	0.3	MALLAIG,HIGHLAND		8	13	182	0.15	0.6	0.5	A*D	
19930904	071455.1	57.03	-5.78	170.4	799.5	2.7	2.7	MALLAIG,HIGHLAND	3+	14	13	119	0.08	0.3	0.7	A*C	FELT MALLAIG
19930904	071629.1	57.03	-5.78	170.8	799.4	2.4	0.7	MALLAIG,HIGHLAND		7	13	178	0.18	0.4	0.4	B*C	
19930904	080444.9	57.03	-5.78	170.9	799.7	2.8	0.4	MALLAIG,HIGHLAND		9	13	116	0.08	0.4	1.0	A*C	
19930904	103223.6	57.03	-5.78	170.5	799.8	2.8	0.2	MALLAIG,HIGHLAND		5	13	181	0.18	1.4		C*D	MAGNITUDE FROM VERTICALS
19930904	180442.6	57.03	-5.78	170.4	799.4	3.3	0.1	MALLAIG,HIGHLAND		7	13	180	0.12	1.7	4.5	B*D	
19930905	094819.3	57.03	-5.78	170.6	799.2	2.7	2.0	MALLAIG,HIGHLAND		14	13	117	0.08	0.3	0.8	A*C	
19930906	164955.7	57.03	-5.76	171.6	799.0	3.1	0.1	MALLAIG,HIGHLAND		5	13	173	0.09	1.0		C*D	MAGNITUDE FROM VERTICALS
19930907	011419.8	57.03	-5.78	170.9	799.1	2.9	0.1	MALLAIG,HIGHLAND		7	13	177	0.06	0.6	1.7	A*C	
19930915	031557.1	57.03	-5.77	171.0	799.2	3.7	0.1	MALLAIG,HIGHLAND		6	13	176	0.10	0.2	2.3	B*C	
19930917	052900.7	57.03	-5.78	170.8	799.8	2.5	0.3	MALLAIG,HIGHLAND		7	13	179	0.17	1.7	4.7	B*C	
19930917	100821.8	57.03	-5.76	172.0	799.1	3.0	0.4	MALLAIG,HIGHLAND		9	13	170	0.10	1.0	2.1	B*C	
19930923	190436.6	57.03	-5.79	169.9	799.4	2.8	0.2	MALLAIG,HIGHLAND		8	13	183	0.14	1.6	3.0	B*D	
19930924	105846.3	57.03	-5.78	170.7	799.2	2.5	0.1	MALLAIG,HIGHLAND		7	13	178	0.12	1.5	3.7	B*C	

TABLE 2: CATALOGUE OF EARTHQUAKES LISTED IN ORDER OF DECREASING LATITIDE: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930924	110047.7	57.03	-5.78	170.3	799.1	2.2	0.7	MALLAIG,HIGHLAND		7	12	180	0.09	0.3	0.4	A*D	
19930904	102300.8	57.02	-5.77	170.9	798.9	3.4	0.1	MALLAIG,HIGHLAND		5	12	176	0.12	1.0	16.5	C*D	MAGNITUDE FROM VERTICALS
19930911	052537.3	57.02	-5.79	170.0	798.9	2.9	0.7	MALLAIG,HIGHLAND		11	12	120	0.10	0.5	1.1	A*C	
19930911	130112.7	57.02	-5.76	171.6	798.7	4.0	0.6	MALLAIG,HIGHLAND		9	12	112	0.06	0.3	0.6	A*C	
19930912	204236.1	57.02	-5.76	171.6	798.8	2.5	0.6	MALLAIG,HIGHLAND		9	12	172	0.15	0.3	0.4	B*C	
19930924	105428.0	57.02	-5.77	171.1	798.6	2.8	0.4	MALLAIG,HIGHLAND		9	12	114	0.10	0.5	1.2	A*C	
19930817	190634.7	57.01	-5.77	171.4	797.7	6.9	-0.2	MALLAIG,HIGHLAND		9	11	171	0.22	5.0	7.6	C*C	
19931216	110520.5	56.96	-4.50	248.2	788.5	2.6	1.9	LOCH LAGGAN,HIGHLAND		18	33	68	0.17	0.7	1.9	B*C	
19930210	033729.2	56.94	-5.14	208.8	787.3	2.8	0.8	LOCH ARKAIG,HIGHLAND		8	17	170	0.13	1.0	1.8	B*C	
19931113	111038.3	56.82	-5.89	162.3	776.6	6.1	1.1	LOCH MOIDART,HIGHLAND		17	12	228	0.12	1.2	0.6	B*D	OFFSHORE LOCATION
19931227	194430.8	56.80	-5.44	189.7	773.2	2.8	0.7	LOCH SHIEL,HIGHLAND		9	27	213	0.09	0.7	1.3	A*D	
19930309	132209.4	56.65	-5.24	201.6	756.2	2.5	2.0	LOCH LINNHE,HIGHLAND		22	25	120	0.23	0.7	1.1	B*C	
19930930	213307.1	56.60	-5.08	211.1	749.1	7.1	1.1	GLEN ETIVE,HIGHLAND		17	26	142	0.08	0.3	0.9	A*C	
19931115	073333.7	56.55	-4.31	258.1	741.8	2.5	1.1	GLEN LYON,TAYSIDE		8	38	267	0.06	1.2	0.8	B*D	6KM S OF INNERWICK
19931011	225401.2	56.53	-5.70	172.5	743.2	2.4	1.3	LOCHALINE,STRATHCLYDE		12	44	208	0.17	1.3	1.0	B*D	
19930531	161218.3	56.39	-4.01	275.8	723.5	5.4	0.0	COMRIE,TAYSIDE		6	21	201	0.21	1.0	1.2	B*D	
19930803	212205.2	56.34	-6.14	144.0	724.1	7.4	1.2	MULL,STRATHCLYDE		6	106	351	0.07	3.6	3.3	C*D	
19931121	055405.9	56.34	-5.18	203.7	720.8	5.9	1.1	LOCH AWE,STRATHCLYDE		11	54	287	0.19	4.4	8.2	C*D	
19931211	224139.8	56.31	-5.97	154.4	720.3	6.8	1.3	MULL,STRATHCLYDE		13	68	245	0.09	1.3	2.0	B*D	
19931008	064648.3	56.28	-5.20	202.2	714.2	0.6	1.3	LOCH AWE,STRATHCLYDE		11	54	287	0.12	2.9	2.1	C*D	
19930725	124120.5	56.22	-5.16	204.4	707.6	0.5	0.7	INVERARAY,STRATHCLYDE		5	49	306	0.06	1.4	1.2	B*D	
19930613	112412.9	56.19	-6.09	145.9	706.7	4.9	1.8	COLONSAY,STRATHCLYDE		24	83	256	0.23	1.6	2.3	B*D	
19931117	042600.2	56.14	-3.72	292.9	695.5	0.3	0.5	CLACKMANNAN,CENTRAL		10	18	130	0.14	0.6	0.9	A*C	C/F
19930206	014818.9	56.13	-3.68	295.2	694.2	1.6	1.1	CLACKMANNAN,CENTRAL	2+	9	17	112	0.10	0.4	0.7	A*C	C/F,FELT FOREST MILL
19930223	035349.6	56.13	-3.71	293.4	694.3	0.9	1.4	CLACKMANNAN,CENTRAL		14	18	81	0.10	0.4	0.8	A*C	C/F
19930326	063820.6	56.13	-3.72	293.0	694.4	0.6	1.0	CLACKMANNAN,CENTRAL		10	19	103	0.12	0.6	0.8	A*C	C/F
19930406	082108.9	56.13	-3.68	295.4	694.5	0.1	1.6	CLACKMANNAN,CENTRAL	3+	10	17	103	0.09	0.5	0.9	A*C	C/F,FELT FOREST MILL
19930409	163511.5	56.13	-3.68	295.8	693.8	1.4	0.5	CLACKMANNAN,CENTRAL		6	17	118	0.05	0.5	0.9	A*C	C/F
19930421	013732.2	56.13	-3.72	293.1	693.8	1.0	1.3	CLACKMANNAN,CENTRAL		19	19	80	0.09	0.2	0.4	A*C	C/F
19930615	044644.8	56.13	-3.69	295.2	694.8	0.4	0.5	CLACKMANNAN,CENTRAL		8	17	164	0.40	0.8	1.3	C*C	C/F
19930807	141228.8	56.13	-3.73	292.4	694.0	0.3	0.8	CLACKMANNAN,CENTRAL		10	19	93	0.06	0.3	0.7	A*C	C/F
19930807	141234.2	56.13	-3.74	292.1	694.9	0.3	1.0	CLACKMANNAN,CENTRAL		10	19	128	0.29	1.1	1.8	B*C	C/F
19930818	023803.2	56.13	-3.73	292.5	694.3	0.8	0.7	CLACKMANNAN,CENTRAL		16	19	85	0.07	0.2	0.4	A*C	C/F
19930914	161504.3	56.13	-3.74	291.7	694.0	2.0	0.9	CLACKMANNAN,CENTRAL		12	20	86	0.11	0.4	0.6	A*C	C/F
19930921	020051.0	56.13	-3.73	292.4	694.0	0.9	0.5	CLACKMANNAN,CENTRAL		9	19	125	0.06	0.3	0.4	A*C	C/F
19930923	023744.8	56.13	-3.73	292.5	694.2	0.6	1.2	CLACKMANNAN,CENTRAL		20	19	82	0.09	0.2	0.4	A*C	C/F
19930923	024413.8	56.13	-3.74	292.0	694.2	1.2	0.6	CLACKMANNAN,CENTRAL		14	20	82	0.09	0.3	0.5	A*C	C/F
19931110	013840.8	56.13	-3.73	292.3	694.2	1.0	0.8	CLACKMANNAN,CENTRAL		11	19	82	0.07	0.3	0.6	A*C	C/F - DOUBLE EVENT
19931117	094901.8	56.13	-3.73	292.6	694.2	0.6	0.8	CLACKMANNAN,CENTRAL		11	19	85	0.08	0.3	0.5	A*C	C/F - DOUBLE EVENT
19931123	211100.9	56.13	-3.73	292.5	694.2	1.9	0.9	CLACKMANNAN,CENTRAL		22	19	82	0.13	0.3	0.5	A*C	C/F
19931223	052816.4	56.13	-3.73	292.1	694.4	1.8	0.5	CLACKMANNAN,CENTRAL		11	19	84	0.09	0.4	0.6	A*C	C/F - DOUBLE EVENT
19931223	074928.7	56.13	-3.73	292.2	694.6	0.9	0.7	CLACKMANNAN,CENTRAL		12	19	84	0.11	0.4	0.6	A*C	C/F
19930211	211925.1	56.12	-3.67	296.0	692.7	1.0	0.6	CLACKMANNAN,CENTRAL	2+	8	18	153	0.09	0.5	0.7	A*C	C/F,FELT FOREST MILL
19930310	053916.2	56.12	-3.72	293.0	693.2	0.5	1.0	CLACKMANNAN,CENTRAL		13	19	80	0.09	0.4	0.8	A*C	C/F
19930417	075520.5	56.12	-3.72	293.3	693.6	1.4	0.8	CLACKMANNAN,CENTRAL		11	19	86	0.08	0.3	0.6	A*C	C/F
19930505	023200.6	56.12	-3.72	293.2	693.5	0.5	0.3	CLACKMANNAN,CENTRAL		11	19	122	0.15	0.6	0.9	B*C	C/F
19930507	102634.0	56.12	-3.71	293.6	693.6	0.5	-0.1	CLACKMANNAN,CENTRAL		8	19	122	0.24	1.6	2.1	B*C	C/F
19930512	214636.1	56.12	-3.70	294.1	693.6	0.1	0.3	CLACKMANNAN,CENTRAL		11	18	121	0.25	0.8	1.3	B*C	C/F
19930907	021934.1	56.12	-3.73	292.6	693.7	0.7	1.2	CLACKMANNAN,CENTRAL		16	19	83	0.09	0.3	0.4	A*C	C/F
19930918	031415.2	56.12	-3.73	292.5	693.7	2.0	0.8	CLACKMANNAN,CENTRAL		15	20	83	0.08	0.3	0.4	A*C	C/F

TABLE 2: CATALOGUE OF EARTHQUAKES LISTED IN ORDER OF DECREASING LATITIDE: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19931118	015204.4	56.12	-3.73	292.4	693.4	1.4	0.8	CLACKMANNAN,CENTRAL		10	20	87	0.08	0.3	0.6	A*C	C/F
19931224	014446.8	56.12	-3.73	292.4	693.7	1.5	1.1	CLACKMANNAN,CENTRAL		16	20	81	0.09	0.3	0.4	A*C	C/F
19931205	164055.3	56.10	-4.72	231.0	693.6	6.9	0.8	GLEN LUSS,STRATHCLYDE		8	25	261	0.03	0.6	1.1	A*D	
19930202	005025.9	56.08	-5.06	209.3	692.3	1.5	1.0	LOCH ECK,STRATHCLYDE		6	33	317	0.03	2.3	2.1	B*D	
19930213	203602.4	56.07	-4.02	274.2	688.3	7.5	0.9	CARRON VALLEY,CENTRAL		10	10	177	0.08	0.5	0.5	A*C	
19930930	063409.4	56.07	-4.72	231.0	689.4	4.6	0.8	GLEN FRUIN,STRATHCLYDE		10	25	236	0.09	0.8	0.9	A*D	
19930923	005422.2	56.06	-3.99	276.3	687.3	3.7	0.3	BANNOCKBURN,CENTRAL		7	11	165	0.18	0.5	5.8	C*C	
19931102	163402.3	56.03	-3.64	297.7	682.8	6.1	0.7	BO'NESS,CENTRAL		14	24	94	0.09	0.3	0.5	A*C	
19931102	002336.6	55.99	-5.56	177.9	683.4	8.5	0.8	KNAPDALE,STRATHCLYDE		8	54	243	0.20	2.4	4.4	B*D	10KM SW OF LOCHGILPHEAD
19930419	001704.2	55.95	-3.04	335.0	673.4	1.9	-0.1	MUSSELBURGH,LOTHIAN		6	9	205	0.06	0.8	1.2	A*D	C/F
19930422	222249.6	55.95	-3.09	332.0	673.1	0.5	-0.2	MUSSELBURGH,LOTHIAN		6	7	208	0.24	8.5	7.9	D*D	C/F
19930730	223954.6	55.94	-3.06	333.7	671.8	2.7	0.2	MUSSELBURGH,LOTHIAN		6	8	193	0.10	0.3	4.7	B*D	C/F
19930526	184834.6	55.93	-5.80	162.6	677.3	2.1	1.3	JURA,STRATHCLYDE		9	66	240	0.35	5.1	3.7	D*D	3KM SE OF LAGG,JURA
19930715	034420.2	55.93	-3.07	332.9	671.0	1.3	0.7	MUSSELBURGH,LOTHIAN		10	7	125	0.10	0.3	0.3	A*B	C/F
19930708	223456.5	55.92	-3.08	332.5	670.3	2.4	0.4	MUSSELBURGH,LOTHIAN		8	7	127	0.13	0.4	0.9	A*B	C/F
19930716	200013.1	55.92	-3.07	333.2	670.6	0.6	0.6	MUSSELBURGH,LOTHIAN		8	7	125	0.02	0.1	0.1	A*B	C/F
19931020	221123.2	55.90	-3.06	333.8	667.6	0.1	0.1	DALKEITH,LOTHIAN		5	8	155	0.09	0.7	0.9	A*D	C/F
19931024	003143.5	55.87	-3.09	331.6	664.6	0.1	-0.1	BONNYRIGG,LOTHIAN		6	8	208	0.06	1.4	0.9	B*D	C/F
19930123	030303.2	55.86	-4.45	246.7	666.0	6.4	0.2	RENFREW,STRATHCLYDE		6	6	153	0.03	0.6	1.0	A*C	
19931219	100246.9	55.85	-3.11	330.3	662.8	0.5	0.4	ROSEWELL,LOTHIAN		5	9	184	0.03	3.8	2.7	C*D	C/F
19930707	114806.6	55.55	4.63	818.1	648.6	0.3	4.0	CENTRAL NORTH SEA	4+	37	301	90	0.24	0.7	0.9	B*D	FELT GORM PLATFORM
19930808	115919.2	55.47	-5.10	204.1	623.4	7.6	1.6	ARRAN,STRATHCLYDE		19	34	141	0.09	0.3	1.3	A*C	
19930613	052255.3	55.40	-5.25	194.2	616.8	17.0	1.3	ARRAN,STRATHCLYDE		14	59	278	0.38	3.5	3.8	C*D	
19930107	170045.5	55.37	-5.29	191.2	613.1	15.2	1.5	ARRAN,STRATHCLYDE		12	19	130	0.23	1.2	2.7	B*B	
19930811	230821.2	55.37	-1.52	430.5	608.3	4.0	1.7	AMBLE,NORTHUMBERLAND		19	48	292	0.31	2.0	2.4	C*D	C/F - OFFSHORE
19931214	021724.0	55.37	-1.34	442.0	608.6	0.7	1.5	AMBLE,NORTHUMBERLAND		13	100	332	0.08	2.4	1.8	B*D	C/F - OFFSHORE
19930106	181241.4	55.35	-5.28	191.7	610.9	15.5	1.2	ARRAN,STRATHCLYDE		11	20	122	0.17	0.8	2.3	B*B	
19930106	214145.6	55.35	-5.26	193.6	610.9	6.6	1.0	ARRAN,STRATHCLYDE		8	21	121	0.08	0.5	1.0	A*C	
19930107	015345.2	55.35	-5.28	191.8	611.2	14.8	1.0	ARRAN,STRATHCLYDE		10	20	123	0.12	0.5	1.9	A*B	
19930107	155911.7	55.35	-5.28	191.9	610.9	11.8	1.7	ARRAN,STRATHCLYDE		13	20	122	0.17	0.7	2.5	B*B	
19931029	141749.9	55.34	-2.26	383.3	605.3	12.4	1.3	BYRNESS,NORTHUMBERLAND		21	17	174	0.06	0.3	0.5	A*C	
19931113	195439.5	55.33	-2.30	381.0	603.6	8.6	1.0	BYRNESS,NORTHUMBERLAND		21	19	165	0.06	0.2	1.0	A*C	
19930107	170618.4	55.32	-5.30	190.9	608.3	13.7	0.9	ARRAN,STRATHCLYDE		5	19	227	0.07	2.0	3.4	B*D	
19930106	224657.2	55.31	-5.32	189.1	606.8	13.7	1.0	ARRAN,STRATHCLYDE		5	18	218	0.02	0.5	1.0	A*D	
19930106	232343.2	55.30	-5.30	190.2	605.9	8.5	0.9	ARRAN,STRATHCLYDE		5	19	217	0.02	0.7	4.2	B*D	
19930107	184435.8	55.30	-5.31	189.8	605.5	13.1	1.2	ARRAN,STRATHCLYDE		6	19	215	0.03	0.6	1.1	A*D	
19930107	001656.1	55.28	-5.30	190.6	603.2	5.0	0.9	ARRAN,STRATHCLYDE		6	20	209	0.04	9.4	12.1	D*D	
19930307	041319.0	55.27	-3.33	315.7	598.0	12.9	0.5	NEWTON,D & G		18	9	172	0.09	0.4	0.7	A*C	
19930910	225447.6	55.24	-3.49	305.2	594.8	4.5	-0.1	JOHNSTONEBRIDGE,D & G		8	13	188	0.13	0.2	3.5	B*D	
19930911	062503.7	55.24	-3.49	305.2	594.9	4.5	0.0	JOHNSTONEBRIDGE,D & G		8	13	189	0.12	0.1	3.3	B*D	
19930913	184813.5	55.24	-3.49	304.9	594.7	3.8	0.6	JOHNSTONEBRIDGE,D & G		11	12	188	0.14	0.4	1.2	A*D	
19930916	221635.8	55.24	-3.49	305.4	594.8	4.3	0.4	JOHNSTONEBRIDGE,D & G		11	13	188	0.12	0.9		C*D	
19930923	172155.3	55.24	-3.49	305.3	594.6	4.5	-0.2	JOHNSTONEBRIDGE,D & G		8	13	186	0.13	0.2	4.5	B*D	
19930923	183625.5	55.24	-3.49	305.4	594.5	4.2	-0.1	JOHNSTONEBRIDGE,D & G		8	13	186	0.12	1.0		C*D	
19930923	195556.5	55.24	-3.49	305.3	594.7	3.9	0.2	JOHNSTONEBRIDGE,D & G		12	13	187	0.14	0.4	1.0	A*D	
19930927	035507.5	55.24	-3.49	305.3	594.8	4.2	0.6	JOHNSTONEBRIDGE,D & G		12	13	188	0.15	0.8		C*D	
19930927	035532.5	55.24	-3.49	305.1	595.3	6.1	0.2	JOHNSTONEBRIDGE,D & G		10	13	191	0.15	0.7	3.4	B*D	
19930927	043903.6	55.24	-3.49	305.1	594.9	4.7	-0.2	JOHNSTONEBRIDGE,D & G		8	13	189	0.12	0.2	4.5	B*D	
19930927	093901.1	55.24	-3.49	305.5	594.6	5.4	-0.2	JOHNSTONEBRIDGE,D & G		8	13	186	0.14	0.9	7.2	C*D	
19930602	084741.6	55.20	-2.98	337.3	589.6	6.9	0.3	LANGHOLM,D & G		15	8	196	0.08	0.4	0.6	A*D	

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YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19931213	085953.9	55.16	4.55	816.7	604.7	20.4	3.4	CENTRAL NORTH SEA		24	415	216	0.27	1.8	2.7	B*D	
19930614	062547.7	55.09	-3.63	295.8	578.2	3.1	0.4	DUMFRIES,D & G		8	10	133	0.04	0.4	1.1	A*B	
19930211	161903.2	55.01	-2.87	344.1	568.4	12.3	1.0	LONGTOWN,CUMBRIA		25	15	147	0.14	0.5	1.1	A*C	
19930615	090600.7	54.93	5.68	891.5	586.5	15.0	3.0	SOUTHERN NORTH SEA		15	506	331	0.42			D*D	
19930326	040124.7	54.91	-1.40	438.3	557.5	0.0	0.9	SUNDERLAND,TYNE & WEAR		8	82	301	0.21	7.7	5.8	D*D	C/F
19930326	015009.1	54.87	-1.37	440.5	553.2	0.0	1.7	SUNDERLAND,TYNE & WEAR		29	16	210	0.28	1.1	1.3	B*D	C/F
19930506	063653.5	54.84	-3.85	281.4	551.2	8.0	0.6	AUCHENCAIRN,D & G		9	7	186	0.03	0.3	0.6	A*D	
19930831	020159.9	54.79	-3.89	278.3	546.2	7.8	0.8	DUNDRENNAN,D & G		19	8	124	0.07	0.3	0.8	A*B	3KM ESE OF DUNDRENNAN
19930925	095603.0	54.74	-2.76	351.2	538.4	3.5	0.9	PLUMPTON,CUMBRIA		18	14	143	0.09	0.4	1.8	A*C	
19930603	040954.9	54.69	-2.45	371.0	533.4	2.3	1.0	MILBURN FOREST,CUMBRIA		30	24	80	0.10	0.2	0.4	A*C	
19930819	194554.7	54.64	-3.27	317.8	528.0	13.0	0.7	COCKERMOUTH,CUMBRIA		15	11	68	0.10	0.4	0.8	A*A	6KM SE OF COCKERMOUTH
19930506	122252.8	54.63	-2.32	379.2	526.0	4.3	1.0	MICKLE FELL,DURHAM		30	27	110	0.14	0.3	1.4	A*C	
19930819	202330.5	54.63	-3.28	317.2	527.3	10.1	0.4	COCKERMOUTH,CUMBRIA		13	12	103	0.08	0.4	0.9	A*B	6KM SE OF COCKERMOUTH
19930812	163939.2	54.58	-3.78	285.1	522.4	5.2	1.3	WHITEHAVEN,CUMBRIA		32	21	64	0.18	0.4	1.2	B*C	OFFSHORE LOCATION
19930811	033601.6	54.49	-3.25	318.8	511.9	8.2	-0.2	BUTTERMERE,CUMBRIA		9	5	125	0.12	0.5	1.3	A*B	
19930314	024857.2	54.43	-0.99	465.4	504.3	1.8	2.4	WESTERDALE,N YORKSHIRE		43	23	137	0.21	0.5	0.9	B*C	
19931002	232843.8	54.33	-3.23	320.2	493.0	13.4	0.9	DUNNERDALE,CUMBRIA		18	2	142	0.07	0.4	0.4	A*C	
19930708	061835.3	54.32	-3.12	327.3	492.2	8.5	1.5	CONISTON,CUMBRIA	2+	26	5	115	0.13	0.5	0.9	A*B	FELT KIRKBY-IN-FURNESS
19931127	020546.4	54.28	-3.50	302.4	488.6	9.4	0.2	TARN BAY,CUMBRIA		5	14	278	0.25	4.8	9.9	C*D	OFFSHORE LOCATION
19930705	163226.2	54.25	-2.96	337.5	483.9	19.1	-0.1	HAVERTHWAITE,CUMBRIA		5	18	281	0.39		19.6	D*D	MAGNITUDE FROM VERTICALS
19931115	004855.8	54.25	-0.37	506.1	484.9	31.0	2.0	SCARBOROUGH,N YORKS		10	22	242	0.08	1.3	0.7	B*D	
19930626	054220.0	54.21	-2.86	344.1	479.3	8.3	3.0	GRANGE-O-SANDS,CUMBRIA	5	44	26	36	0.19	0.4	0.6	B*C	FELT GRANGE-OVER-SANDS..
19930717	110651.8	54.19	-2.37	375.6	477.1	4.7	1.4	CHAPEL-LE-DALE,N YORKS		22	46	155	0.15	0.5	1.5	A*C	7KM NE OF INGLETON
19930704	015632.7	54.15	-1.47	434.4	473.4	1.3	1.9	RIPON,NORTH YORKSHIRE		29	24	156	0.18	0.7	1.1	B*C	
19930712	215305.4	53.74	1.37	622.2	432.6	7.4	2.9	SOUTHERN NORTH SEA		31	156	270	0.35	3.9	4.1	C*D	
19930807	233437.7	53.49	-2.33	377.9	400.0	19.6	1.6	SALFORD,GTR MANCHESTER		23	69	74	0.25	0.6	3.0	B*D	
19930916	014910.1	53.44	2.52	700.1	403.3	7.8	2.8	SOUTHERN NORTH SEA		14	145	231	0.08	0.8	1.1	A*D	
19931020	023320.0	53.44	-1.23	451.1	394.4	0.2	1.5	MALTBY,S YORKSHIRE		11	43	166	0.33	1.7	2.5	C*C	C/F
19930928	003603.0	53.38	-4.45	237.2	389.8	14.3	0.6	ANGLESEY,GWYNEDD		13	7	89	0.07	0.4	0.4	A*A	
19930408	035821.4	53.34	-1.71	419.2	382.8	14.6	1.1	BRADWELL,DERBYSHIRE		6	16	143	0.08	0.9	2.3	B*C	
19930924	114532.2	53.32	-1.71	419.6	380.1	2.2	1.4	BAKEWELL,DERBYSHIRE		13	35	297	0.39	9.4	7.4	D*D	
19931111	175246.4	53.32	-0.97	468.7	381.1	0.0	2.2	RANSKILL,NOTTS	5+	16	45	77	0.32	1.4	2.2	C*C	C/F,FELT RANSKILL
19930630	055956.8	53.31	-2.85	343.2	380.0	8.9	2.2	ELLESMERE PRT,CHESHIRE		51	53	50	0.27	0.4	1.1	B*D	
19930801	134038.7	53.28	-4.62	225.3	378.9	11.3	0.0	HOLY ISLAND,GWYNEDD		8	4	226	0.04	0.6	0.7	A*D	
19930325	140807.2	53.26	-1.84	410.5	373.5	0.0	1.4	BUXTON,DERBYSHIRE		6	21	94	0.08	0.6	1.1	A*C	COLLAPSE TYPE
19930727	060735.9	53.26	3.76	784.2	388.8	0.3	2.9	SOUTHERN NORTH SEA		31	163	178	0.36	1.7	2.2	C*D	
19930205	034457.9	53.22	-0.99	467.4	369.3	0.4	1.2	EDWINSTOWE,NOTTS	2+	5	36	285	0.13	8.0	5.7	D*D	C/F,FELT EDWINSTOWE
19930626	211535.7	53.22	-2.99	333.8	370.3	3.9	1.2	CHESTER,CHESHIRE		19	40	245	0.11	0.7	0.7	A*D	
19930131	183941.0	53.20	-1.04	463.9	367.5	0.5	1.0	EDWINSTOWE,NOTTS	2+	6	33	278	0.09	4.3	3.1	C*D	C/F,FELT EDWINSTOWE
19930622	053858.6	53.19	-1.40	440.1	366.1	0.3	1.6	CLAY CROSS,DERBYSHIRE		12	11	205	0.32	1.1	1.2	C*D	C/F
19930122	020945.4	53.16	-1.72	419.0	363.1	3.8	0.7	BAKEWELL,DERBYSHIRE		5	16	204	0.06	0.4	0.6	A*D	
19931011	094334.0	53.14	-3.73	284.6	361.9	9.3	2.3	BETWS-Y-COED,GWYNEDD	3+	32	18	115	0.22	0.6	0.9	B*B	FELT BETWS-Y-COED...
19931127	195606.5	53.13	-4.39	239.9	362.1	10.3	0.2	CAERNARVON BAY,GWYNEDD		10	15	112	0.06	0.4	1.2	A*B	
19930922	010055.6	53.12	-1.06	463.0	358.6	1.0	1.3	BILSTHORPE,NOTTS		8	36	141	0.28	1.8	2.7	B*C	C/F
19930712	042039.5	53.11	-1.79	414.0	356.9	18.9	2.2	HARTINGTON,DERBYSHIRE		29	11	90	0.22	0.6	0.8	B*A	
19930315	142329.1	53.08	-1.11	459.6	354.2	0.1	2.4	FARNSFIELD,NOTTS		23	23	162	0.22	0.7	1.0	B*C	C/F
19930906	022831.8	53.07	2.55	704.4	362.2	3.8	2.3	SOUTHERN NORTH SEA		16	78	313	0.08	1.1	1.2	B*D	
19931231	014531.7	53.07	-1.41	439.3	352.7	0.1	0.6	MATLOCK,DERBYSHIRE		5	22	122	0.54	6.6		D*D	C/F
19930906	024704.8	53.06	-1.00	466.9	351.8	1.0	1.7	OXTON,NOTTINGHAMSHIRE		21	30	149	0.24	0.7	0.9	B*C	C/F
19930629	040348.8	53.04	-2.21	385.7	348.8	4.1	2.0	STOKE-ON-TRENT,STAFFS	5+	27	25	86	0.16	0.4	1.1	B*C	FELT TALKE PITS AREA

TABLE 2: CATALOGUE OF EARTHQUAKES LISTED IN ORDER OF DECREASING LATITIDE: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930921	091706.8	53.04	-2.20	386.7	349.4	4.4	1.5	STOKE-ON-TRENT,STAFFS		16	24	173	0.08	0.4	0.4	A*C	
19930227	011558.9	53.03	-2.20	386.4	348.3	7.2	1.8	STOKE-ON-TRENT,STAFFS		10	24	146	0.08	0.5	1.1	A*C	
19930318	213340.9	53.02	-2.20	386.4	347.6	6.1	1.4	STOKE-ON-TRENT,STAFFS		7	24	161	0.03	0.2	0.6	A*C	
19931001	071401.3	52.97	-4.41	238.4	344.7	20.7	0.4	LLEYN PENINSULA		13	1	96	0.10	0.5	0.8	A*B	
19930119	224646.0	52.96	-4.38	239.9	343.2	22.5	1.4	LLEYN PENINSULA		14	3	99	0.07	0.4	0.8	A*B	
19930610	132550.7	52.96	-4.37	241.0	342.6	22.2	0.0	LLEYN PENINSULA		10	5	199	0.08	0.8	0.6	A*D	
19930622	095933.6	52.96	-4.37	240.9	342.8	23.4	0.5	LLEYN PENINSULA		13	5	189	0.05	0.4	0.3	A*D	
19930207	173344.1	52.95	-4.41	238.3	341.7	22.0	1.0	LLEYN PENINSULA		10	27	297	0.09	1.0	1.4	A*D	
19930720	034824.8	52.94	-5.49	165.7	343.5	7.6	1.6	IRISH SEA		22	59	134	0.20	0.5	1.5	B*D	
19930817	082554.2	52.93	-4.35	241.8	339.3	13.1	0.3	PWLLHELI,GWYNEDD		7	8	114	0.07	0.5	1.0	A*B	7KM NE OF PWLLHELI
19930814	191456.1	52.89	-3.50	298.9	333.4	9.9	0.9	BALA,GWYNEDD		17	16	117	0.06	0.3	0.4	A*B	7KM SE OF BALA
19930218	051420.9	52.88	-4.57	227.0	334.7	10.4	0.3	GARN,GWYNEDD		9	7	143	0.05	0.8	1.0	A*C	
19931225	022055.5	52.88	-3.52	297.9	332.8	10.8	1.2	BALA,GWYNEDD		18	18	113	0.09	0.4	0.6	A*B	6KM SE OF BALA
19931028	170640.3	52.87	-2.82	345.0	330.6	1.6	1.2	WHITCHURCH,STAFFS		8	30	251	0.05	1.7	1.7	B*D	
19930316	111306.9	52.86	-2.14	390.7	329.1	3.9	1.7	WHITGREAVE,STAFFS		12	26	135	0.27	1.1	3.8	B*C	
19930619	162035.8	52.86	-2.19	387.0	329.2	10.9	1.6	STAFFORD,STAFFORDSHIRE		21	29	115	0.16	0.6	1.4	B*C	6KM NW OF STAFFORD
19930125	203356.9	52.85	-2.23	384.5	328.1	10.2	1.5	ECCLESHALL,STAFFS		14	32	131	0.43	2.0	6.2	C*C	
19931005	020514.8	52.77	-2.11	392.3	319.6	8.6	2.2	STAFFORD,STAFFORDSHIRE		20	33	101	0.09	0.4	0.7	A*C	
19930917	121905.8	52.74	-4.96	200.2	319.9	13.9	0.5	IRISH SEA		15	25	141	0.22	1.1	4.2	B*C	
19930725	111228.9	52.73	-4.39	238.5	317.0	11.2	0.3	CARDIGAN BAY,WALES		6	20	205	0.09	1.3	3.8	B*D	17KM SOUTH OF PWLLHELI
19930324	114752.2	52.62	-1.00	467.3	302.9	7.7	1.5	KEYHAM,LEICESTERSHIRE		8	24	286	0.17	8.0	15.8	D*D	
19930415	213003.4	52.55	-0.75	484.9	295.9	4.7	2.3	GREAT EASTON,LEICS		23	25	77	0.40	1.3	2.8	C*C	
19931024	220909.3	52.54	-3.45	301.9	294.2	20.9	1.7	NEWTOWN,POWYS		20	26	81	0.06	0.2	0.5	A*B	
19930806	111339.9	52.41	-2.17	388.2	279.1	7.6	1.0	WEST HAGLEY,W MIDLANDS		8	49	283	0.18	2.1	2.8	B*D	
19930611	015409.7	52.38	-3.01	331.3	276.9	13.6	0.4	KNIGHTON,POWYS		9	8	111	0.15	1.0	1.2	B*B	
19930926	214617.1	52.36	-1.85	410.2	273.2	9.4	1.3	BIRMINGHAM,W MIDLANDS		14	43	139	0.38	1.6	8.4	C*C	
19930521	134302.0	52.32	-3.52	296.3	270.2	15.8	-0.2	RHAYADER,POWYS		6	9	151	0.05	1.3	1.8	B*C	
19930917	013954.4	52.32	-2.73	350.3	269.0	14.5	2.3	LUDLOW,SHROPSHIRE		29	25	94	0.15	0.4	0.4	B*B	6KM SOUTH OF LUDLOW
19930916	132631.1	52.31	-2.73	350.1	268.7	14.1	1.8	LUDLOW,SHROPSHIRE		19	25	94	0.16	0.6	0.7	B*B	7KM SOUTH OF LUDLOW
19930927	135412.6	52.31	-2.73	350.3	268.6	14.2	1.6	LUDLOW,SHROPSHIRE		12	25	94	0.16	0.7	0.9	B*B	7KM SOUTH OF LUDLOW
19930504	142025.9	52.29	-0.06	531.9	267.5	0.2	2.4	HUNTINGDON,CAMBS		19	43	101	0.25	1.0	1.2	B*C	9KM SE OF HUNTINGDON
19930706	054251.6	52.27	-2.60	359.3	264.0	13.4	0.4	TENBURY WELLS,HER&WOR		8	26	209	0.17	1.5	2.1	B*D	
19930921	035848.2	52.17	-2.50	366.0	252.4	15.3	0.5	BROMYARD,HER & WOR		8	15	228	0.16	1.7	1.5	B*D	
19930921	072544.9	52.16	-2.47	367.6	251.5	14.6	1.1	BROMYARD,HER & WOR		12	15	233	0.17	1.4	1.0	B*D	
19930903	211019.7	52.15	-2.47	368.1	250.4	18.3	0.4	BROMYARD,HER & WOR		9	14	238	0.14	1.5	2.2	B*D	
19930507	125043.0	52.14	-2.47	367.5	249.0	11.5	2.3	BROMYARD,HER & WOR		29	12	133	0.18	0.6	0.6	B*B	6KM SE OF BROMYARD
19930622	201146.6	52.13	-2.83	343.1	248.3	19.5	0.3	WELLINGTON,HER & WOR		5	19	123	0.02	0.4	1.0	A*D	
19930331	064432.4	52.12	-2.95	334.9	247.0	17.8	0.2	STAUNTON-O-WYE,HER&WOR		6	14	172	0.04	0.6	0.7	A*C	
19931230	184843.3	52.12	-2.57	360.8	247.4	15.5	0.5	HEREFORD,HER & WOR		6	10	196	0.02	0.3	0.3	A*D	13KM NE OF HEREFORD
19930912	123810.4	52.11	-3.36	306.9	246.8	15.8	0.7	BUILTH WELLS,POWYS		7	7	175	0.06	1.2	0.6	B*C	5KM SE BUILTH WELLS
19930424	094405.9	52.09	-3.38	305.5	244.6	15.9	0.5	BUILTH WELLS,POWYS		5	8	212	0.01	1.2	0.2	B*D	6KM SOUTH BUILTH WELLS
19930913	190255.6	52.02	-3.52	295.6	236.9	14.5	1.3	BRECON,POWYS		8	18	214	0.09	0.9	0.6	A*D	12KM NW BRECON
19930827	084902.2	51.89	-2.24	383.5	221.5	21.9	0.9	GLOUCESTER,GL'SHIRE		5	27	267	0.05	1.5	2.9	B*D	
19930501	183621.4	51.87	-4.53	225.8	222.3	3.2	1.4	MEIDRIM,DYFED		21	18	115	0.19	0.3	1.2	B*C	4KM NE OF MEIDRIM
19930710	172128.0	51.87	-4.92	199.0	223.1	12.3	1.7	HAVERFORDWEST,DYFED		22	13	126	0.16	0.5	0.5	B*B	7KM NE HAVERFORDWEST
19930724	132633.2	51.84	-2.89	339.0	216.0	9.2	0.1	ABERGAVENNY,GWENT		5	19	170	0.26	3.2	15.1	C*D	8KM EAST OF ABERGAVENNY
19931224	194545.8	51.79	-3.00	331.1	211.1	14.6	1.3	ABERGAVENNY,GWENT		15	22	66	0.18	0.8	0.8	B*B	
19931215	153043.0	51.67	-3.26	312.8	197.4	5.0	1.3	BARGOED,MID GLAMORGAN		8	32	182	0.08	0.7	17.4	C*D	C/F
19930318	023143.5	51.62	-3.29	311.0	191.8	10.0	1.5	SENGHENYDD,M GLAMORGAN		15	33	124	0.16	0.6	1.2	B*C	
19931231	212058.7	51.60	-3.60	289.4	190.7	7.7	1.9	PONTYCYMER,W GLAMORGAN		17	42	75	0.12	0.4	1.4	A*C	

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YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930728	035240.0	51.56	-2.30	379.5	185.1	8.6	1.9	CHIPPING SODBURY,AVON		17	36	260	0.22	2.0	1.7	B*D	8KM NE CHIPPING SODBURY
19930209	130233.5	51.55	-3.06	326.6	184.4	10.0	1.7	CARDIFF,S GLAMORGAN		10	50	191	0.25	2.2	2.6	B*D	
19930321	192935.1	51.06	-2.84	341.1	129.5	14.3	1.0	SOMERTON,SOMERSET		16	7	135	0.19	0.9	0.8	B*B	7KM WEST OF SOMERTON
19930302	143615.2	51.05	-2.70	350.9	127.8	12.7	1.9	SOMERTON,SOMERSET		22	3	202	0.18	0.7	0.4	B*D	
19931226	192701.3	50.93	-1.33	446.9	115.2	7.0	1.2	SOUTHAMPTON,HAMPSHIRE		11	30	117	0.19	0.7	3.0	B*C	
19931024	050702.2	50.65	-4.06	254.6	85.0	8.7	1.7	OKEHAMPTON,DEVON		18	25	138	0.25	0.4	5.4	C*C	SW OF OKEHAMPTON
19930807	020703.3	50.59	-4.72	207.3	80.7	3.1	0.2	TINTAGEL,CORNWALL		8	29	346	0.12	7.3	2.8	D*D	SOUTH OF TINTAGEL
19930115	170121.9	50.35	-4.84	198.0	53.7	5.9	1.6	ST AUSTELL,CORNWALL		12	4	298	0.01	0.2	0.2	A*D	
19930522	220227.9	50.28	-2.49	364.9	42.0	6.9	2.2	ENGLISH CHANNEL		28	104	96	0.33	0.8	2.9	C*D	40KM SOUTH OF WEYMOUTH
19930118	223150.8	50.27	-3.90	264.4	42.5	7.5	0.9	PLYMOUTH,DEVON		6	6	258	0.17	3.6	1.8	C*D	20KM SE OF PLYMOUTH
19930118	060331.7	50.25	-3.94	261.6	40.4	2.0	0.2	PLYMOUTH,DEVON		4	10	331	0.00			A*D	20KM SE OF PLYMOUTH
19930917	055752.6	50.24	-6.65	68.5	48.4	2.4	1.8	SCILLY ISLES,CORNWALL		14	77	351	0.27			D*D	SW OF SCILLY ISLES
19931112	062419.6	50.22	-5.27	166.9	41.1	1.4	0.8	CAMBORNE,CORNWALL		13	5	306	0.03	0.3	0.8	A*D	NR SOUTH CROFTY TIN MINE
19930102	052245.5	50.11	-5.18	172.8	28.3	7.3	0.1	CONSTANTINE,CORNWALL		11	3	164	0.04	0.3	0.4	A*C	
19930104	211223.8	50.11	-5.17	173.0	28.2	7.0	-0.1	CONSTANTINE,CORNWALL		9	3	159	0.01	0.2	0.2	A*C	
19930104	211226.0	50.11	-5.18	172.9	28.2	7.2	0.1	CONSTANTINE,CORNWALL		8	3	161	0.02	0.2	0.3	A*C	
19930215	122927.0	50.11	-5.18	173.0	28.1	6.2	0.5	CONSTANTINE,CORNWALL		11	6	163	0.02	0.2	0.2	A*C	
19930215	124517.9	50.11	-5.17	173.4	28.3	7.2	0.2	CONSTANTINE,CORNWALL		8	3	149	0.02	0.2	0.3	A*C	
19930325	025824.9	50.11	-5.18	172.7	28.3	7.0	-0.2	CONSTANTINE,CORNWALL		17	3	122	0.02	0.1	0.1	A*B	
19930325	025836.8	50.11	-5.18	172.8	28.3	7.1	-0.3	CONSTANTINE,CORNWALL		14	3	124	0.02	0.1	0.1	A*B	
19930405	123946.3	50.11	-5.18	172.7	28.4	6.9	0.8	CONSTANTINE,CORNWALL		13	3	122	0.02	0.1	0.1	A*B	
19930405	123948.3	50.11	-5.18	172.7	28.3	5.9	0.7	CONSTANTINE,CORNWALL		12	3	123	0.05	0.2	0.3	A*B	
19930407	110816.5	50.11	-5.18	172.7	28.3	7.4	0.0	CONSTANTINE,CORNWALL		7	3	166	0.02	0.2	0.3	A*C	
19930407	195655.5	50.11	-5.18	172.6	28.3	6.8	0.1	CONSTANTINE,CORNWALL		14	3	169	0.03	0.2	0.2	A*C	
19930407	213434.1	50.11	-5.18	172.6	28.1	7.1	0.2	CONSTANTINE,CORNWALL		15	3	123	0.02	0.1	0.2	A*B	
19930408	012428.0	50.11	-5.18	172.7	28.2	7.1	-0.1	CONSTANTINE,CORNWALL		13	3	123	0.02	0.1	0.2	A*B	
19930409	161403.9	50.11	-5.18	172.5	28.0	6.6	0.4	CONSTANTINE,CORNWALL		14	3	122	0.02	0.1	0.1	A*B	
19930409	175720.7	50.11	-5.18	172.6	28.2	7.2	0.6	CONSTANTINE,CORNWALL		15	3	121	0.02	0.1	0.2	A*B	
19930409	190544.2	50.11	-5.18	172.7	28.2	6.8	-0.1	CONSTANTINE,CORNWALL		12	3	123	0.02	0.1	0.2	A*B	
19930415	131548.3	50.11	-5.18	172.6	28.3	7.2	0.2	CONSTANTINE,CORNWALL		11	3	122	0.02	0.1	0.2	A*B	
19930422	111130.2	50.11	-5.18	172.6	28.2	7.0	0.5	CONSTANTINE,CORNWALL		14	3	169	0.03	0.2	0.2	A*C	
19930523	050412.8	50.11	-5.18	172.7	28.3	6.8	0.7	CONSTANTINE,CORNWALL		16	3	123	0.02	0.1	0.1	A*B	
19930713	182903.8	50.11	-5.18	172.8	28.1	6.4	1.4	CONSTANTINE,CORNWALL		13	3	125	0.02	0.1	0.2	A*B	
19930713	183020.8	50.11	-5.18	172.7	28.4	6.9	0.0	CONSTANTINE,CORNWALL		12	3	122	0.02	0.1	0.1	A*B	
19930713	190058.2	50.11	-5.18	172.9	28.1	7.0	0.6	CONSTANTINE,CORNWALL		15	3	127	0.02	0.1	0.2	A*B	
19930718	003719.6	50.11	-5.18	172.8	28.1	6.8	0.8	CONSTANTINE,CORNWALL		15	3	126	0.02	0.1	0.2	A*B	
19930718	003850.6	50.11	-5.18	172.5	28.3	6.8	-0.2	CONSTANTINE,CORNWALL		13	3	170	0.02	0.1	0.2	A*C	
19930718	004549.4	50.11	-5.18	172.9	28.2	7.0	0.3	CONSTANTINE,CORNWALL		12	3	127	0.02	0.1	0.3	A*B	
19930718	004649.1	50.11	-5.18	173.0	28.1	7.0	0.1	CONSTANTINE,CORNWALL		12	3	129	0.02	0.1	0.2	A*B	
19930718	004740.3	50.11	-5.18	172.8	28.2	6.8	-0.6	CONSTANTINE,CORNWALL		12	3	125	0.02	0.1	0.2	A*B	
19930718	012720.6	50.11	-5.18	172.7	28.3	7.1	0.2	CONSTANTINE,CORNWALL		15	3	166	0.03	0.2	0.2	A*C	
19930718	021441.1	50.11	-5.18	172.7	28.3	7.1	-0.1	CONSTANTINE,CORNWALL		16	3	165	0.03	0.2	0.2	A*C	
19930718	021804.6	50.11	-5.18	172.9	28.1	7.2	0.0	CONSTANTINE,CORNWALL		13	3	127	0.02	0.1	0.2	A*B	
19930718	055241.2	50.11	-5.17	173.0	28.2	7.1	-0.4	CONSTANTINE,CORNWALL		13	3	158	0.02	0.1	0.1	A*C	
19930718	055249.5	50.11	-5.18	172.9	28.2	7.1	0.2	CONSTANTINE,CORNWALL		13	3	126	0.02	0.1	0.2	A*B	
19930718	055306.0	50.11	-5.17	173.1	28.2	7.0	-0.3	CONSTANTINE,CORNWALL		10	3	157	0.02	0.2	0.2	A*C	
19930718	072225.4	50.11	-5.17	173.0	28.1	7.3	-0.3	CONSTANTINE,CORNWALL		10	3	159	0.02	0.2	0.2	A*C	
19930718	075024.2	50.11	-5.18	172.9	28.1	7.2	0.1	CONSTANTINE,CORNWALL		14	3	163	0.02	0.2	0.1	A*C	
19930718	083746.7	50.11	-5.18	172.9	28.1	7.0	0.6	CONSTANTINE,CORNWALL		15	3	127	0.02	0.1	0.2	A*B	
19930718	083809.5	50.11	-5.17	173.3	28.1	7.2	-0.5	CONSTANTINE,CORNWALL		6	3	154	0.02	0.3	0.4	A*C	

TABLE 2: CATALOGUE OF EARTHQUAKES LISTED IN ORDER OF DECREASING LATITIDE: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930718	101134.2	50.11	-5.18	172.6	28.2	7.3	0.3	CONSTANTINE,CORNWALL		14	3	121	0.02	0.1	0.2	A*B	
19930718	101141.5	50.11	-5.18	172.5	28.2	7.3	0.2	CONSTANTINE,CORNWALL		14	3	171	0.03	0.2	0.2	A*C	
19930718	101237.1	50.11	-5.18	172.6	28.1	6.9	0.6	CONSTANTINE,CORNWALL		13	3	123	0.02	0.1	0.3	A*B	
19930718	111600.4	50.11	-5.17	173.1	28.2	7.1	-0.2	CONSTANTINE,CORNWALL		8	3	156	0.01	0.2	0.2	A*C	
19930718	111534.9	50.11	-5.18	172.9	28.1	7.0	0.3	CONSTANTINE,CORNWALL		13	3	126	0.03	0.2	0.3	A*B	
19930718	114805.2	50.11	-5.18	172.6	28.2	7.1	0.5	CONSTANTINE,CORNWALL		13	3	169	0.03	0.3	0.2	A*C	
19930718	162332.0	50.11	-5.18	173.0	28.3	7.2	-0.3	CONSTANTINE,CORNWALL		10	3	159	0.02	0.2	0.2	A*C	
19930718	162601.6	50.11	-5.18	172.6	28.3	6.9	0.7	CONSTANTINE,CORNWALL		15	3	122	0.01	0.1	0.1	A*B	
19930718	170900.4	50.11	-5.18	172.7	28.1	6.8	1.8	CONSTANTINE,CORNWALL		13	3	124	0.01	0.1	0.2	A*B	
19930718	170945.3	50.11	-5.18	172.9	28.0	6.9	1.2	CONSTANTINE,CORNWALL		16	3	128	0.02	0.1	0.1	A*B	
19930718	193739.9	50.11	-5.17	173.0	28.2	7.5	-0.3	CONSTANTINE,CORNWALL		9	3	158	0.02	0.2	0.2	A*C	
19930718	200610.0	50.11	-5.18	172.7	28.2	7.2	0.2	CONSTANTINE,CORNWALL		12	3	124	0.01	0.1	0.2	A*B	
19930718	205705.0	50.11	-5.18	172.8	28.2	7.1	0.0	CONSTANTINE,CORNWALL		15	3	125	0.02	0.1	0.2	A*B	
19930718	210524.0	50.11	-5.18	172.7	28.2	6.9	0.2	CONSTANTINE,CORNWALL		14	3	123	0.02	0.1	0.2	A*B	
19930718	214202.0	50.11	-5.18	172.7	28.1	7.1	0.0	CONSTANTINE,CORNWALL		11	3	166	0.02	0.2	0.3	A*C	
19930718	214811.3	50.11	-5.18	172.9	28.2	7.3	-0.4	CONSTANTINE,CORNWALL		9	3	162	0.02	0.2	0.3	A*C	
19930718	220042.4	50.11	-5.17	173.1	28.1	7.5	-0.8	CONSTANTINE,CORNWALL		9	3	158	0.02	0.2	0.2	A*C	
19930718	220046.0	50.11	-5.18	172.7	28.2	7.0	0.1	CONSTANTINE,CORNWALL		13	3	123	0.02	0.1	0.2	A*B	
19930718	225450.2	50.11	-5.18	172.6	28.1	6.9	0.0	CONSTANTINE,CORNWALL		12	3	122	0.02	0.1	0.2	A*B	
19930718	232434.6	50.11	-5.18	172.7	28.3	6.9	0.2	CONSTANTINE,CORNWALL		16	3	122	0.02	0.1	0.2	A*B	
19930718	235458.4	50.11	-5.18	172.8	28.3	7.2	0.2	CONSTANTINE,CORNWALL		13	3	124	0.02	0.1	0.2	A*B	
19930719	011154.4	50.11	-5.18	172.9	28.4	7.2	-0.5	CONSTANTINE,CORNWALL		9	3	286	0.02	0.3	0.2	A*D	
19930719	022029.0	50.11	-5.17	173.1	27.9	6.9	-0.5	CONSTANTINE,CORNWALL		7	4	291	0.01	0.2	0.1	A*D	
19930719	043512.7	50.11	-5.18	172.8	28.2	7.0	0.9	CONSTANTINE,CORNWALL		13	3	125	0.01	0.1	0.1	A*B	
19930719	045350.5	50.11	-5.18	172.6	28.2	7.2	0.1	CONSTANTINE,CORNWALL		14	3	169	0.03	0.2	0.2	A*C	
19930719	051202.2	50.11	-5.18	172.9	28.2	6.7	-0.6	CONSTANTINE,CORNWALL		6	6	178	0.01	0.1	0.2	A*C	
19930719	062029.7	50.11	-5.17	173.1	28.2	7.5	-0.3	CONSTANTINE,CORNWALL		9	3	156	0.02	0.3	0.3	A*C	
19930719	075301.5	50.11	-5.18	172.9	28.2	7.4	-0.2	CONSTANTINE,CORNWALL		11	3	162	0.02	0.2	0.2	A*C	
19930719	095548.9	50.11	-5.18	172.6	28.3	7.8	-0.2	CONSTANTINE,CORNWALL		10	3	169	0.04	0.5	0.4	A*C	
19930719	162653.6	50.11	-5.17	173.2	28.3	7.2	-0.2	CONSTANTINE,CORNWALL		13	3	155	0.03	0.3	0.2	A*C	
19930719	172405.3	50.11	-5.18	172.7	28.2	7.0	1.0	CONSTANTINE,CORNWALL		12	3	124	0.01	0.1	0.1	A*B	
19930719	172644.6	50.11	-5.18	172.9	28.0	7.0	-0.3	CONSTANTINE,CORNWALL		11	3	163	0.02	0.2	0.2	A*C	
19930719	174408.2	50.11	-5.18	172.9	28.2	7.4	-0.4	CONSTANTINE,CORNWALL		9	3	161	0.02	0.2	0.2	A*C	
19930720	001735.0	50.11	-5.18	172.6	28.2	7.2	0.1	CONSTANTINE,CORNWALL		14	3	123	0.02	0.1	0.2	A*B	
19930720	001745.8	50.11	-5.18	172.9	28.2	7.5	-0.5	CONSTANTINE,CORNWALL		8	3	162	0.02	0.2	0.3	A*C	
19930720	001757.0	50.11	-5.18	172.7	28.3	7.1	0.3	CONSTANTINE,CORNWALL		13	3	166	0.02	0.2	0.2	A*C	
19930720	033426.7	50.11	-5.18	172.5	28.2	6.9	-0.1	CONSTANTINE,CORNWALL		11	3	170	0.04	0.4	0.5	A*C	
19930720	113633.3	50.11	-5.18	172.8	28.2	6.8	1.0	CONSTANTINE,CORNWALL		15	3	125	0.02	0.1	0.2	A*B	
19930720	113638.8	50.11	-5.18	172.6	28.4	6.7	0.4	CONSTANTINE,CORNWALL		14	3	121	0.02	0.1	0.2	A*B	
19930720	113711.4	50.11	-5.18	172.7	28.4	7.4	0.2	CONSTANTINE,CORNWALL		10	3	164	0.03	0.4	0.4	A*C	
19930720	125400.7	50.11	-5.19	172.2	28.4	6.8	0.1	CONSTANTINE,CORNWALL		11	3	173	0.02	0.2	0.1	A*C	
19930720	143158.1	50.11	-5.18	172.9	28.3	7.1	-0.1	CONSTANTINE,CORNWALL		10	3	161	0.02	0.2	0.2	A*C	
19930720	165010.7	50.11	-5.18	172.8	28.2	6.8	1.2	CONSTANTINE,CORNWALL		14	3	125	0.02	0.1	0.2	A*B	
19930720	233856.4	50.11	-5.18	172.4	28.3	7.2	-0.3	CONSTANTINE,CORNWALL		10	3	171	0.02	0.3	0.2	A*C	
19930720	234843.4	50.11	-5.18	172.7	28.3	7.1	-0.4	CONSTANTINE,CORNWALL		13	3	167	0.04	0.3	0.3	A*C	
19930730	223412.5	50.11	-5.18	172.3	28.1	6.9	0.4	CONSTANTINE,CORNWALL		14	3	173	0.03	0.2	0.2	A*C	
19930813	164342.7	50.11	-5.18	172.8	28.2	5.6	0.7	CONSTANTINE,CORNWALL		17	3	84	0.02	0.1	0.1	A*A	
19930814	052005.9	50.11	-5.18	172.9	28.2	5.3	0.4	CONSTANTINE,CORNWALL		15	3	127	0.01	0.1	0.2	A*B	
19930814	175755.5	50.11	-5.18	173.0	28.2	5.5	0.1	CONSTANTINE,CORNWALL		15	3	128	0.01	0.1	0.1	A*B	
19930901	192606.2	50.11	-5.18	172.7	28.3	7.2	-0.2	CONSTANTINE,CORNWALL		10	3	165	0.03	0.3	0.3	A*C	

TABLE 2: CATALOGUE OF EARTHQUAKES LISTED IN ORDER OF DECREASING LATITIDE: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930117	085255.7	50.10	-5.17	173.2	27.5	5.5	0.1	CONSTANTINE,CORNWALL		9	4	160	0.04	0.3	0.5	A*C	
19930813	204506.3	50.10	-5.17	173.4	27.4	5.1	0.0	CONSTANTINE,CORNWALL		12	4	139	0.04	0.2	0.4	A*C	
19930310	084051.8	49.97	-5.35	159.9	13.2	17.9	0.4	LIZARD POINT,CORNWALL		8	21	340	0.03	1.1	1.3	B*D	SW OF LIZARD POINT
19930807	035009.9	49.56	-4.96	185.7	-34.0	1.1	1.0	LIZARD POINT,CORNWALL		9	57	336	0.09			D*D	SE OF LIZARD POINT
19930307	123944.2	49.44	-2.16	388.6	-51.5	12.4	0.7	NORTH OF JERSEY		7	22	333	0.01	0.5	1.3	A*D	25KM NORTH OF JERSEY
19930324	100220.8	49.22	-2.17	387.5	-76.1	5.5	0.4	ST BRELADE,JERSEY		6	3	144	0.08	1.2	2.2	B*C	
19930505	042808.8	49.16	-5.99	108.9	-74.8	6.6	1.4	LAND'S END,CORNWALL		11	116	355	0.09	5.3	1.8	D*D	SW OF LAND'S END
19930613	150055.7	49.03	-3.92	259.7	-94.8	11.1	2.2	ENGLISH CHANNEL		15	127	240	0.28	3.9	5.6	C*D	

TABLE 3

CATALOGUE OF NON-NATURAL EVENTS LISTED CHRONOLOGICALLY: 1993

KEY TO BULLETIN ENCODING

YearMoDy	:	Year, month and day of event.
HrMn Secs	:	Time of occurrence of event in hours, mins and secs, (UTC).
Lat	:	Latitude of the event, positive latitude indicates north.
Lon	:	Longitude of the event, negative longitude indicates west.
kmE	:	UK National Grid Reference in kilometres east of grid origin.
kmN	:	UK National Grid Reference in kilometres north of grid origin.
Dep	:	Depth of the hypocentre in kilometres.
Mag	:	Richter local magnitude of the event.
Locality	:	A geographical indication of the epicentral area, usually the nearest town followed by the region. A key to the abbreviations used in the locality column are given below.
Int	:	Maximum MSK intensity. 2+ indicates felt, no macroseismic details. 3+, 4+ etc indicates felt at 3 or 4, but no survey carried out. 3, 4, 5 etc describes the maximum MSK intensity produced by the event.
Comments	:	Additional comments about the event eg: C/F, see below under comments abbreviations.

The following abbreviations are extracted from the output of the location program HYPO71 (Lee and Lahr,1975)

No	:	Total number of P and S readings used in the event location.
DM	:	Epicentral distance in kilometres to the closest station.
Gap	:	Largest azimuthal separation in degrees between stations.
RMS	:	Root Mean Square of the travel-time residuals in seconds.
ERH	:	Standard error of the epicentre in kilometres. When this column is blank, the error is large and indeterminate.
ERZ	:	Standard error of the focal depth in kilometres. When this column is blank, the error is large and indeterminate.
SQD	:	S is quality factor ascribed to RMS, D is quality ascribed to number and distribution of stations.

Locality abbreviations

Sonic	:	Sonic boom	M Glamorgan	:	Mid Glamorgan
Expl	:	Explosion	Notts	:	Nottinghamshire
D & G	:	Dumfries and Galloway	Gl'shire	:	Gloucestershire
Her & Wor	:	Hereford and Worcester	S Yorks(hire)	:	South Yorkshire
Gtr Manchester	:	Greater Manchester	Leics	:	Leicestershire
Cambs	:	Cambridgeshire	W Midlands	:	West Midlands
Prt	:	Port	N Uist	:	North Uist
Staffs	:	Staffordshire	W Isles	:	Western Isles

Comments abbreviations

Sonic	:	Sonic boom
Expl	:	Explosion
C/F	:	Coalfield type event
...	:	and felt elsewhere

TABLE 3: CATALOGUE OF NON-NATURAL EVENTS LISTED CHRONOLOGICALLY: 1993

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	SQD	Comments...
19930118	104006.2	50.75	-1.11	462.9	94.7	0.3	2.4	EXPL-PORTSMOUTH	2+	11	89	117	0.48	3.2	10.9	C*D	EXPL-FELT PORTSMOUTH
19930201	094606.0							SONIC-MONTROSE									SONIC-FELT MONTROSE....
19930202	151849.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930205	110709.0							SONIC-SCARBOROUGH									SONIC-FELT SCARBOROUGH
19930211	094003.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930211	094028.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930211	144509.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930211	144611.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930212	143408.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930212	143642.0							SONIC-DOUNREAY									SONIC-FELT DOUNREAY
19930222	162800.0							SONIC-HUMBERSIDE									SONIC-FELT BEVERLEY...
19930226	111948.0							SONIC-ANGLESEY									SONIC-FELT ANGLESEY...
19930318	145900.0							SONIC-WORCESTERSHIRE									SONIC-FELT BROADWAY...
19930524	144903.0							SONIC-SUFFOLK									SONIC-FELT LEISTON...
19930527	141159.0							EXPL-TAYSIDE									EXPL-HERCULES AIR CRASH
19930621	085951.0							SONIC-NORFOLK									SONIC-FELT TRIMINGHAM
19930721	214950.2	55.51	-4.68	230.5	626.9	0.0	0.9	EXPL-AYR BAY	2+	18	35	180	0.21	1.2	2.6	B*D	EXPL-FELT AYR BAY
19930730	104305.9	54.26	-0.47	499.8	486.6	0.3	2.2	EXPL-SCARBOROUGH		26	160	246	0.38	3.9	5.2	C*D	EXPL-ORDNANCE DETONATION
19930811	200540.0							SONIC-FIFE									SONIC-FELT ST ANDREWS
19930824	231230.9	55.21	-5.42	182.6	595.6	0.4	2.0	EXPL-NORTH CHANNEL		33	102	223	0.33	1.7	2.3	C*D	EXPL-ORDNANCE DETONATION
19930912	131318.8	55.85	-4.25	259.0	664.5	0.3	0.2	EXPL-GLASGOW	2+	7	15	148	0.19	1.0	1.6	B*C	EXPL-FLAT DEMOLITION
19930920	192855.0							EXPL(IMPACT)-PRESTWICK									EXPL-SUSPECTED METEORITE
19930923	140411.4	55.06	-5.04	206.0	577.8	0.0	1.8	EXPL-STRANRAER		4	73	285	0.03			A*D	EXPL-ORDNANCE DETONATION
19931014	135424.4	52.99	-3.89	272.9	345.4	0.4	0.9	EXPL-BL.FFEST,GWYNEDD	2+	15	25	104	0.22	0.8	4.3	B*C	EXPL-FELT BL.FFESTINIOG
19931020	120141.9	55.87	-3.97	276.7	666.1	0.3	1.0	EXPL-AIRDRIE	2+	10	33	226	0.10	0.6	0.6	A*D	EXPL-FELT AIRDRIE
19931022	205700.0							SONIC-SWANSEA									SONIC-FELT SWANSEA...
19931024	170300.0							SONIC-SWANSEA									SONIC-FELT SWANSEA...
19931027	101200.0							SONIC-NORTHUMBERLAND									SONIC-FELT AMBLE
19931027	194828.0							SONIC-FIFE									SONIC-FELT KIRKCALDY...
19931105	121955.3	57.69	-1.78	413.3	867.0	0.3	1.0	EXPL-OFF FRASERBURGH		8	32	293	0.07	2.2	1.4	B*D	EXPL-CONTRABAND EXPLODED

Note: The significance of explosions listed above which were not reported to be felt is that they received media attention. Many others (eg. quarry and construction blasts) are recorded but are not analysed in detail.

TABLE 4

GEOGRAPHICAL COORDINATES OF SEISMOGRAPH STATIONS: DECEMBER 1993

TABLE 4 : GEOGRAPHICAL COORDINATES OF SEISMOGRAPH STATIONS: DECEMBER 1993

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Yrs open	Comp	Agency
ABA	BACONSTHORPE	52.8875	1.1471	611.70	336.90	13	82-	1	BGS
AEA	E.ANGLIA UNIV	52.6208	1.2403	619.30	307.50	45	84-	m	BGS
APA	PACKWAY	52.2999	1.4779	637.10	272.60	35	84-	1	BGS
AWH	WHINBURGH	52.6299	0.9512	599.70	307.70	60	80-	1R	BGS
AWI	WITTON	52.8324	1.4460	632.09	331.69	35	83-	1	BGS
BBH	BRUNTSHEIL	55.1332	-2.9299	340.72	582.50	207	92-	1	BGS
BBO	BOTHEL	54.7367	-3.2465	319.75	538.70	205	92-	3	BGS
BCC	CHAPELCROSS	55.0154	-3.2202	321.98	569.67	68	92-	L	BGS
BCM	CHAPELCROSS MIC	55.0151	-3.2212	321.92	569.64	78	92-	m	BGS
BDL	DOBCROSS HALL	54.8030	-2.9390	339.65	545.76	132	92-	1	BGS
BHH	HOWATS HILL	55.0928	-3.2187	322.23	578.28	198	92-	3	BGS
BNA	NEW ABBEY	54.9659	-3.6244	296.02	564.70	78	92-	1	BGS
BTA	TALKIN	54.9057	-2.6841	356.14	557.00	276	92-	3	BGS
BWH	WARDLAW	55.1757	-3.6551	294.61	588.08	275	92-	1	BGS
CBW	BUDOCK WATER	50.1482	-5.1144	177.53	32.29	98	81-	1	BGS
CCA	CARNMENELLIS	50.1864	-5.2277	169.62	36.87	213	81-	1	BGS
CCO	CONSTANTINE	50.1357	-5.1960	171.64	31.15	183	81-	1	BGS
CDU	DUNNERDALE	54.3363	-3.1950	322.31	494.09	362	92-	1	BGS
CGH	GOONHILLY	50.0508	-5.1649	173.47	21.61	91	81-	1	BGS
*CGW	GWEEK	50.1003	-5.2224	169.58	27.29	76	93-	1	BGS
CKE	KESWICK	54.5878	-3.1062	328.52	521.98	296	92-	1	BGS
*CMA	MANACCAN	50.0819	-5.1273	176.30	24.96	50	93-	3	BGS
CME	MENERDUE FARM	50.1760	-5.1903	172.24	35.61	178	82-	3R	BGS
*CMS	MANACCAN SAT	50.0822	-5.1290	176.18	24.99	55	93-93	1	BGS
CPZ	PENZANCE	50.1560	-5.5835	144.07	34.66	198	81-	1R	BGS
CR2	ROSEMANOWES 2	50.1669	-5.1687	173.74	34.53	152	81-	3	BGS
CRA	RAME	50.1648	-5.1921	172.06	34.36	198	82-	3	BGS
CRQ	ROSEMANOWES	50.1672	-5.1728	173.45	34.57	165	81-	SR	BGS
CSA	ST AUSTELL	50.3528	-4.8936	194.18	54.39	113	81-	1	BGS
CSF	SCAFELL	54.4478	-3.2431	319.40	506.55	548	92-	1	BGS
CSM	SELLAFIELD MIC	54.4183	-3.4913	303.24	503.58	50	92-	m	BGS
CST	STITHIANS	50.1952	-5.1635	174.24	37.66	139	81-	1	BGS
CTR	TROLVIS QUARRY	50.1665	-5.1624	174.18	34.47	191	82-	3	BGS
CWF	CHARNWOOD FST	52.7382	-1.3071	446.78	315.88	185	75-	3R	BGS
DCO	COMBE FARM	50.3200	-3.8724	266.72	48.42	410	82-	1R	BGS
DYA	YADSWORTHY	50.4352	-3.9309	262.89	61.33	280	82-	3R	BGS
EAB	ABERFOYLE	56.1881	-4.3400	254.80	701.95	250	69-	1R	BGS
EAU	AUCHINOON	55.8454	-3.4474	309.38	662.30	359	69-	1R	BGS
EBH	BLACK HILL	56.2481	-3.5081	306.56	707.19	375	69-	1R	BGS
EBL	BROAD LAW	55.7733	-3.0436	334.54	653.82	365	69-	1R	BGS
ECK	CAULDKAINE HILL	55.1812	-3.1271	328.24	588.02	337	81-	1R	BGS
EDI	EDINBURGH	55.9233	-3.1861	325.89	670.66	125	69-	4R	BGS
EDR	DRUMTOCHTY	56.9190	-2.5394	367.16	780.97	401	89-	1R	BGS
EDU	DUNDEE	56.5475	-3.0142	337.65	739.95	275	69-	1R	BGS
ELO	LOGIEALMOND	56.4706	-3.7119	294.55	732.24	495	69-	1R	BGS
ESK	ESKDALEMUIR	55.3167	-3.2050	323.54	603.18	263	65-	4R	BGS
ESY	STONEYPATH	55.9177	-2.6144	361.60	669.57	328	81-	1R	BGS
GAL	GALLOWAY	54.8664	-4.7114	226.02	555.78	105	89-	4m	BGS
GCD	CASTLE DOUGLAS	54.8638	-3.9417	275.40	553.85	189	89-	1R	BGS
GCL	CUSHENDALL	55.076	-6.130	136.4	583.7	275	89-	1R	BGS
GIM	N ISLE OF MAN	54.2923	-4.4670	239.46	491.35	366	89-	3R	BGS
GMK	MULL OF KINTYRE	55.3459	-5.5936	172.18	611.65	160	89-	1R	BGS
GMM	MTS OF MOURNE	54.239	-5.951	142.6	489.8	140	89-	1R	BGS
HAE	ALDERS END	52.0376	-2.5475	362.45	237.88	224	82-	1R	BGS
HBL2	BONNYLANDS	52.0508	-3.0384	328.80	239.72	440	91-	LR	BGS
HCG	CRAIG GOCH	52.3224	-3.6567	287.10	270.70	511	80-	1R	BGS
HEX	HEXMOOR	51.0668	-3.8025	273.72	131.32	278	91-	1R	BGS
HGH	GRAY HILL	51.6380	-2.8064	344.20	193.64	210	80-	1R	BGS
HLM	LONG MYND	52.5169	-2.8878	339.76	291.41	259	84-	1	BGS
HPE	PEMBROKE	51.9371	-4.7745	209.27	230.18	355	90-	1R	BGS
HPK	HAVERAH PARK	53.9554	-1.6240	424.67	451.12	227	78-	3R	BGS
HSA	SWANSEA	51.7478	-4.1543	251.30	207.70	274	87-	1R	BGS

TABLE 4 : continued

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Yrs open	Comp	Agency
HTL	HARTLAND	50.9944	-4.4850	225.64	124.67	91	81-	4Rm	BGS
HTR	TREWERN HILL	52.0790	-3.2697	313.00	243.10	329	82-	1R	BGS
JLP	LES PLATONS	49.2428	-2.1039			131	81-	1R	BGS
JQE	QUEENS EAST	49.200	-2.038			56	91-	1	BGS
JQS	QUEENS SOUTH	49.180	-2.063			62	91-	1	BGS
JQW	QUEENS WEST	49.196	-2.057			73	91-	1	BGS
JRS	MAISON ST LOUIS	49.1924	-2.0917			53	81-	4R	BGS
JSA	ST AUBINS	49.1879	-2.1709			21	81-	1R	BGS
JVM	VALLE D.L.MARE	49.2169	-2.2068			64	81	1R	BGS
KAC	ACHNASHELLACH	57.4999	-5.2982	202.40	850.29	330	83-	1R	BGS
KAR	ARISAIG	56.9175	-5.8302	166.90	787.20	225	83-	1	BGS
KBI	BIRLEY GRANGE	53.2546	-1.5278	431.50	373.20	270	88-	1	BGS
KEY	KEYWORTH	52.8774	-1.0751	462.24	331.54	75	88-	L	BGS
KNR	NEVIS RANGE	56.8219	-4.9714	218.68	773.97	1118	91-	1R	BGS
KPL	PLOCKTON	57.3391	-5.6527	180.21	833.50	36	86-	4R	BGS
KSB	SHIEL BRIDGE	57.2098	-5.4230	193.30	818.39	70	83-	1R	BGS
KSK	SCOVAL	57.4653	-6.7020	118.09	851.40	250	89-	1R	BGS
KSY	SYSTON	52.9642	-0.5873	494.88	341.73	123	88-	1R	BGS
KTG	TILBROOK GRNGE	52.3261	-0.4007	508.98	271.03	78	88-	1	BGS
KUF	UFFORD	52.6175	-0.3895	509.02	303.45	35	88-	1R	BGS
KWE	WEAVER FARM	53.0163	-1.8435	410.50	346.60	320	88-	1R	BGS
LCP	CASSOP	54.7368	-1.4741	433.86	538.12	185	91-	1R	BGS
LDU	LEEDS UNIV	53.8025	-1.5553	429.35	434.45	230	83-	m	BGS
LHO	HOLMEFIRTH	53.5451	-1.8548	409.62	405.42	460	91-	1R	BGS
LMI	MILLOM	54.2206	-3.3070	314.79	481.35	140	89-	3R	BGS
LMK	MARKET RASEN	53.4569	-0.3266	511.10	396.90	130	91-	1R	BGS
LRN	RICHMOND	54.4167	-1.7858	413.90	502.40	300	91-	1R	BGS
LRW	LERWICK	60.1360	-1.1779	445.66	1139.27	100	78-	4R	BGS
LWH	WHINNY NAB	54.3335	-0.6714	486.38	493.94	265	91-	1R	BGS
MCD	COLEBURN DISTIL	57.5827	-3.2541	325.02	855.41	280	81-	4Rm	BGS
MCH	MICHAELCHURCH	51.9977	-2.9983	331.47	233.77	233	78-	4	BGS
MDO	DOCHFOUR	57.4412	-4.3633	258.17	841.43	366	81-	1R	BGS
MFI	FISHRIE	57.6116	-2.2953	382.36	857.97	220	88-	1R	BGS
MLA	LATHERON	58.305	-3.364	320.1	935.9	190	81-	1	BGS
MME	MEIKLE CAIRN	57.315	-2.965	341.9	825.3	455	81-	1	BGS
MVH	ACHVAICH	57.9232	-4.1816	270.79	894.70	198	84-	1	BGS
PCA	CARROT	55.700	-4.255	258.3	647.5	305	83-	1	BGS
PCO	CORRIE	55.988	-4.097	269.2	679.2	274	83-	1	BGS
PGB	GLENIFFERBRAES	55.810	-4.478	244.5	660.5	200	84-	3	BGS
PMS	MUIRSHIEL	55.846	-4.744	228.2	664.8	351	83-	1	BGS
POB	OBSERVATORY	55.637	-4.417	247.9	664.1	34	92-	L	BGS
SAN	SANDWICK	60.0176	-1.2386	442.44	1126.05	155	85-	1	BGS
SBD	BRYN DU	52.9055	-3.2588	315.35	335.01	497	80-	1	BGS
*SFH	HASELMERE	51.0604	-0.6911	491.71	129.88	260	93-	1	BGS
*SIW	ISLE OF WHITE	50.6716	-1.4027	442.20	86.00	155	93-	1	BGS
*SKP	KOPHILL	51.7215	-0.8099	482.20	203.25	215	93-	1	BGS
*SMD	MENDIPS	51.3082	-2.7174	350.00	156.87	300	93-	1	BGS
SSP	STONEY POUND	52.4177	-3.1119	324.39	280.59	417	90-	3	BGS
*SSW	STOW-ON-WOLD	51.9667	-1.8499	410.31	229.85	291	93-	1	BGS
*SWK	WARMINSTER	51.1483	-2.2471	382.72	138.87	279	93-	1	BGS
*SWN	SWINDON	51.5130	-1.8005	413.85	179.42	192	93-	4	BGS
TBW	BRENTWOOD	51.6549	0.2911	558.47	197.66	82	89-	1R	BGS
TCR	COLCHESTER	51.8349	0.9215	601.26	219.23	40	89-	1R	BGS
TEB	EASTBOURNE	50.8188	0.1459	551.14	104.40	70	89-	1R	BGS
TFO	FOLKESTONE	51.1136	1.1406	619.79	139.67	188	89-	4	BGS
TSA	SEVENOAKS	51.2427	0.1558	550.46	151.55	170	89-	1	BGS
WAL	WALLS	60.2576	-1.6133	421.40	1152.60	170	80-	1	BGS
WCB	CHURCH BAY	53.3782	-4.5465	230.63	389.86	135	85-	4m	BGS
WFB	FAIRBOURNE	52.6830	-4.0378	262.27	311.47	325	85-	1R	BGS

TABLE 4 : continued

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Yrs open	Comp	Agency
WIM	ISLE OF MAN	54.1472	-4.6735	225.41	475.70	365	85-	1R	BGS
WLF	LLYNFAES	53.2893	-4.3966	240.27	379.64	65	85-	1	BGS
WME	MYNDD EILIAN	53.3966	-4.3034	246.86	391.37	130	85-	1R	BGS
WPM	PENMAENMAWR	53.2583	-3.9049	272.94	375.20	350	85-	1R	BGS
XAL	ALLENDALE	54.8617	-2.2147	386.22	551.91	462	83-	1R	BGS
XDE	DENT	54.5058	-3.4897	303.55	513.32	291	83-	1R	BGS
XSO	SOURHOPE	55.4925	-2.2511	384.13	622.11	495	83-	1R	BGS
YEL	YELL	60.5509	-1.0830	450.29	1185.55	200	79-	1	BGS
YLL	LLANBERIS	53.1402	-4.1704	254.84	362.57	162	84-	1R	BGS
YRC	RHOSCOLYN	53.2506	-4.5741	228.28	375.74	24	84-	1R	BGS
YRE	YR EIFL	52.9810	-4.4254	237.19	345.42	197	84-	1R	BGS
YRH	RHIW	52.8335	-4.6289	222.93	329.50	300	84-	1R	BGS
DCN	CROGHAN	53.3439	-7.2767			150	77-	1R	DIAS
DLF	LYONS FARM	53.2958	-6.5314			96	91-	3	DIAS
DMU	KINGSCOURT	53.8989	-6.9106			280	77-	1R	DIAS
DMS	MERRION SQUARE	53.3406	-6.2486			5	90-	1	DIAS
ECB	CARRICKBYRNE	52.3661	-6.7811			125	81-	1R	DIAS
ECP	CARNSORE PT	52.1800	-6.3689			5	80-	3R	DIAS
ETA	TARA HILL	52.6958	-6.2100			140	82-	1R	DIAS

* CGW installed 7 March 1993
* CMA installed 31 July 1993
* CMS installed 31 July 1993 and removed on 5 October 1993
* SFH,SMD,SSW,SWK & SWN installed 21 September 1993
* SIW installed 7 October 1993
* SKP installed 9 December 1993

Agency codes:

BGS	British Geological Survey
DIAS	Dublin Institute of Advanced Studies

Component codes:

1	Single vertical seismometer
3	Orthogonal set of 3 seismometers
4	As in 3, above, plus one low-gain vertical
S	Orthogonal set of 3 strong motion seismometers plus one low-gain vertical seismometer
L	Single low-gain vertical seismometer
R	Station coordinates registered with the International Seismological Centre (ISC), England and the National Earthquake Information Centre (NEIC), USA
m	Low-frequency microphone

TABLE 5

PHASE DATA: 1993

KEY TO PHASE DATA ENCODING

Time	:	Time of occurrence of event in hours, mins and secs, (UTC).
Lat	:	Latitude of the event, positive latitude indicates north.
Lon	:	Longitude of the event, negative longitude indicates west.
Depth	:	Depth of the hypocentre in kilometres.
Grid Ref	:	UK National Grid Reference in kilometres east (kmE) and kilometres north (kmN) of grid origin.
Quality	:	Solution quality of hypocentre averaged from QS and QD. A, excellent; B, good; C, fair; D, poor
RMS	:	Root Mean Square of the travel-time residuals in seconds.
Magnitude	:	Richter local magnitude of the event.
Locality	:	A geographical indication of the epicentral area, usually the nearest town followed by the region.
Intensity	:	Maximum MSK intensity. 2+ indicates felt, no macroseismic details. 3+, 4+ etc indicates felt at 3 or 4, but no survey carried out. 3, 4, 5 etc describes the maximum MSK intensity produced by the event.
Comments	:	Additional comments about the event eg: C/F see list of comments abbreviations below.
STAT	:	Station name
CO	:	Station component S=short period Z=vertical N=north-south E=east-west
DIST	:	Distance from earthquake to station (km)
PHAS	:	Phase identifier; the first letter characterizes onset E=emergent I=impulsive, the second indicates the phase eg P, S, PG and PN.
WT	:	Hypo weighting factor to arrival 0 or blank=full weighting to 4=zero weighting (ignore). 9=use P-S interval only for this line.
P	:	Polarity C=Compression/up D=Dilatation/down
HrMn	:	Hour, Minute of event
SECS	:	Seconds of event
AMPL	:	Amplitude centre to peak in nanometers (nm)
PERI	:	Period in seconds

Locality abbreviations

Sonic	:	Sonic boom	M Glamorgan	:	Mid Glamorgan
Expl	:	Explosion	Notts	:	Nottinghamshire
D & G	:	Dumfries and Galloway	Gl'shire	:	Gloucestershire
Her & Wor	:	Hereford and Worcester	S Yorks(hire)	:	South Yorkshire
Gtr Manchester	:	Greater Manchester	Leics	:	Leicestershire
Cambs	:	Cambridgeshire	W Midlands	:	West Midlands
Prt	:	Port	N Uist	:	North Uist
Staffs	:	Staffordshire	W Isles	:	Western Isles

Comments abbreviations

Sonic	:	Sonic boom
Expl	:	Explosion
C/F	:	Coalfield type event
...	:	and felt elsewhere

January 2 1993 Time: 05:22 45.5 UTC Magnitude: 0.1 ML
Lat: 50.110N Lon: 5.178W Depth: 7.3 km
Grid Ref: 172.78 kmE 28.25 kmN RMS: 0.04 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		D	05:22	47.25		
CR2	SN	6	ES			05:22	48.49		
CR2	SN	6				05:22	48.55	12	0.04
CR2	SE	6				05:22	48.56	20	0.05
CGH	SZ	7	ES	2		05:22	48.54		
CCO	SZ	3	ES			05:22	47.94		
CCA	SZ	9	ES	3		05:22	49.01		
CST	SZ	10	ES	1		05:22	49.13		
CBW	SZ	6	EP			05:22	47.17		
CBW	SZ	6	ES	1		05:22	48.42		
CTR	SE	6	ES	1		05:22	48.51		
CME	SE	7	ES	1		05:22	48.72		
CRA	SE	6	ES	1		05:22	48.53		

January 4 1993 Time: 21:12 23.8 UTC Magnitude: -0.1 ML
Lat: 50.110N Lon: 5.175W Depth: 7.0 km
Grid Ref: 173.04 kmE 28.17 kmN RMS: 0.01 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP	1		21:12	25.49		
CR2	SN	6	ES	2		21:12	26.75		
CR2	SN	6				21:12	26.97	6	0.04
CR2	SE	6				21:12	26.83	17	0.04
CCO	SZ	3	ES	2		21:12	26.21		
CBW	SZ	6	EP	2		21:12	25.42		
CBW	SZ	6	ES	2		21:12	26.69		
CTR	SE	6	ES	2		21:12	26.70		
CME	SE	8	ES	2		21:12	26.96		
CRA	SE	6	ES	2		21:12	26.69		
CGH	SZ	7	ES	3		21:12	26.77		

January 4 1993 Time: 21:12 26.0 UTC Magnitude: 0.1 ML
Lat: 50.110N Lon: 5.176W Depth: 7.2 km
Grid Ref: 172.91 kmE 28.21 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CTR	SE	6	ES	1		21:12	29.02		
CME	SN	7	ES	1		21:12	29.19		
CR2	SN	6	ES	2		21:12	28.99		
CR2	SN	6				21:12	29.04	16	0.04
CR2	SE	6				21:12	29.06	22	0.05
CGH	SZ	7	ES	2		21:12	29.03		
CCO	SZ	3	ES			21:12	28.44		
CST	SZ	10	ES	2	C	21:12	29.65		
CBW	SZ	6	EP	2		21:12	27.68		
CBW	SZ	6	ES	1		21:12	28.92		

January 6 1993 Time: 18:12 41.4 UTC Magnitude: 1.2 ML
Lat: 55.347N Lon: 5.285W Depth: 15.5 km
Grid Ref: 191.74 kmE 610.86 kmN RMS: 0.17 secs
Locality: ARRAN, STRATHCLYDE Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GAL	SN	65				18:13	04.03	7	0.10
GAL	SE	65	ES	3		18:13	00.34		
GAL	SE	65				18:13	03.58	6	0.04
GAL	SZ	65	EP	3		18:12	52.56		
GCL	SZ	62	EP	3		18:12	51.75		
GCL	SZ	62	ES	3		18:12	59.33		
GMK	SZ	20	IP	1	C	18:12	45.87		
GMK	SZ	20	ES	3		18:12	48.61		
PCA	SZ	76	EP	3		18:12	54.12		
PMS	SZ	65	EP	3		18:12	52.48		
PMS	SZ	65	ES	3		18:13	00.35		
PGB	SZ	72	EP	3		18:12	53.24		
PGB	SN	72	ES	3		18:13	02.24		
PGB	SN	72				18:13	03.31	9	0.16
PGB	SE	72				18:13	02.47	11	0.26

January 6 1993 Time: 21:41 45.6 UTC Magnitude: 1.0 ML
Lat: 55.349N Lon: 5.255W Depth: 6.6 km
Grid Ref: 193.63 kmE 610.92 kmN RMS: 0.08 secs
Locality: ARRAN, STRATHCLYDE Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GMK	SZ	22	IP	1		21:41	49.79		
GMK	SZ	22	ES	3		21:41	52.59		
GCL	SZ	63	EP	3		21:41	56.46		
GCL	SZ	63	ES	3		21:42	04.14		
GAL	SZ	64	EP	3		21:41	56.47		
GAL	SE	64				21:42	07.76	4	0.10
GAL	SN	64	ES	3		21:42	04.20		
GAL	SN	64				21:42	05.89	7	0.30
PGB	SN	71	ES	3		21:42	06.17		
PGB	SN	71				21:42	08.80	6	0.07
PMS	SZ	64	ES	3		21:42	04.30		

January 6 1993 Time: 22:46 57.2 UTC Magnitude: 1.0 ML
Lat: 55.310N Lon: 5.324W Depth: 13.7 km
Grid Ref: 189.06 kmE 606.79 kmN RMS: 0.02 secs
Locality: ARRAN, STRATHCLYDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GAL	SZ	63	EP	4		22:47	07.88		
GAL	SN	63	ES	3		22:47	15.61		
GAL	SN	63				22:47	19.23	5	0.06
GAL	SE	63				22:47	18.75	6	0.10
GMK	SZ	18	IP	1	C	22:47	01.07		
GMK	SZ	18	ES	3		22:47	03.86		
GCL	SZ	58	EP	3		22:47	06.95		
GCL	SZ	58	ES	3		22:47	14.18		

January 6 1993 Time: 23:23 43.2 UTC Magnitude: 0.9 ML
Lat: 55.302N Lon: 5.305W Depth: 8.5 km
Grid Ref: 190.24 kmE 605.90 kmN RMS: 0.02 secs
Locality: ARRAN, STRATHCLYDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GAL	SN	62				23:24	03.92	4	0.11
GAL	SE	62	ES	3		23:24	01.13		
GAL	SE	62				23:24	04.86	5	0.20
GCL	SZ	58	EP	3		23:23	53.10		
GCL	SZ	58	ES	3		23:24	00.22		
GMK	SZ	19	IP	1	C	23:23	46.95		
GMK	SZ	19	ES	3		23:23	49.74		

January 7 1993 Time: 00:16 56.1 UTC Magnitude: 0.9 ML
Lat: 55.278N Lon: 5.297W Depth: 5.0 km
Grid Ref: 190.64 kmE 603.16 kmN RMS: 0.04 secs
Locality: ARRAN, STRATHCLYDE Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GAL	SN	59				00:17	17.81	4	0.11
GAL	SE	59	ES	3		00:17	13.63		
GAL	SE	59				00:17	18.01	6	0.06
GMK	SZ	20	IP	1	C	00:17	00.02		
GMK	SZ	20	ES	2		00:17	02.84		
GAL	SZ	59	EP	3		00:17	06.31		
GCL	SZ	58	EP	3		00:17	06.01		
GCL	SZ	58	ES	3		00:17	13.32		

January 7 1993 Time: 01:53 45.2 UTC Magnitude: 1.0 ML
Lat: 55.351N Lon: 5.285W Depth: 14.8 km
Grid Ref: 191.79 kmE 611.21 kmN RMS: 0.12 secs
Locality: ARRAN, STRATHCLYDE Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PGB	SE	72	ES	3		01:54	06.06		
PMS	SZ	65	EP	3		01:53	56.11		
PMS	SZ	65	ES	3		01:54	03.92		
GAL	SN	65	ES	3		01:54	04.23		
GAL	SN	65				01:54	07.05	6	0.13
GAL	SE	65				01:54	06.97	6	0.07
GCL	SZ	62	EP	3		01:53	55.73		
GCL	SZ	62	ES	3		01:54	03.09		
GMK	SZ	20	IP	1	C	01:53	49.56		
GMK	SZ	20	ES	3		01:53	52.41		
PCA	SZ	76	EP	3		01:53	57.89		
PCA	SZ	76	ES	3		01:54	07.24		

January 7 1993 Time: 15:59 11.7 UTC Magnitude: 1.7 ML
Lat: 55.347N Lon: 5.283W Depth: 11.8 km
Grid Ref: 191.86 kmE 610.85 kmN RMS: 0.17 secs
Locality: ARRAN, STRATHCLYDE Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PGB	SN	72				15:59	34.73	27	0.30
PGB	SE	72	ES	3		15:59	32.15		
PGB	SE	72				15:59	32.48	31	0.15
GAL	SN	65	ES	3		15:59	30.41		
GAL	SN	65				15:59	34.07	27	0.10
GAL	SE	65				15:59	33.91	31	0.11
GAL	SZ	65	EP	2		15:59	22.70		
GMK	SZ	20	IP	1	C	15:59	15.89		
GMK	SZ	20	ES	3		15:59	18.41		
PCA	SZ	76	IP	1	D	15:59	24.30		
PCA	SZ	76	ES	3		15:59	33.36		
PMS	SZ	65	EP	2		15:59	22.83		
PMS	SZ	65	ES	3		15:59	30.48		
GCL	SZ	62	EP	2		15:59	22.05		
GCL	SZ	62	ES	3		15:59	29.40		
PCO	SZ	103	EP	3		15:59	28.70		
PCO	SZ	103	ES	3		15:59	40.55		

January 7 1993 Time: 17:00 45.5 UTC Magnitude: 1.5 ML
Lat: 55.368N Lon: 5.295W Depth: 15.2 km
Grid Ref: 191.23 kmE 613.13 kmN RMS: 0.23 secs
Locality: ARRAN, STRATHCLYDE Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PMS	SZ	64	EP	3		17:00	56.62		
PMS	SZ	64	ES	3		17:01	03.75		
PGB	SZ	71	EP	3		17:00	57.30		
PGB	SN	71				17:01	08.76	20	0.18

PGB	SE	71	ES	2		17:01	06.15		
PGB	SE	71				17:01	08.89	17	0.14
GMK	SZ	19	IP	1	C	17:00	49.92		
GMK	SZ	19	ES	2		17:00	52.72		
GAL	SZ	67	EP	3		17:00	57.37		
GAL	SN	67	ES	3		17:01	04.77		
GAL	SN	67				17:01	07.48	11	0.08
GAL	SE	67				17:01	07.64	22	0.21
PCA	SZ	75	EP	2		17:00	58.31		
PCA	SZ	75	ES	3		17:01	07.29		
GCL	SZ	62	EP	2		17:00	56.02		
GCL	SZ	62	ES	3		17:01	03.51		

January 7 1993 Time: 17:06 18.4 UTC Magnitude: 0.9 ML
Lat: 55.324N Lon: 5.297W Depth: 13.7 km
Grid Ref: 190.88 kmE 608.32 kmN RMS: 0.07 secs
Locality: ARRAN, STRATHCLYDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GAL	SN	63				17:06	40.69	6	0.07
GAL	SE	63	ES	3		17:06	36.92		
GAL	SE	63				17:06	40.01	4	0.11
GMK	SZ	19	EP	2		17:06	22.57		
GMK	SZ	19	ES	3		17:06	25.39		
GCL	SZ	60	EP	3		17:06	28.45		
GCL	SZ	60	ES	3		17:06	36.11		

January 7 1993 Time: 18:44 35.8 UTC Magnitude: 1.2 ML
Lat: 55.299N Lon: 5.312W Depth: 13.1 km
Grid Ref: 189.75 kmE 605.49 kmN RMS: 0.03 secs
Locality: ARRAN, STRATHCLYDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GCL	SZ	58	EP	2		18:44	45.56		
GCL	SZ	58	ES	3		18:44	52.84		
GMK	SZ	19	IP	1	C	18:44	39.79		
GMK	SZ	19	ES	3		18:44	42.62		
GAL	SZ	62	EP	3		18:44	46.20		
GAL	SN	62				18:44	57.36	7	0.15
GAL	SE	62	ES	2		18:44	53.82		
GAL	SE	62				18:44	57.57	12	0.18

January 15 1993 Time: 17:01 21.9 UTC Magnitude: 1.6 ML
Lat: 50.348N Lon: 4.840W Depth: 5.9 km
Grid Ref: 197.99 kmE 53.75 kmN RMS: 0.01 secs
Locality: ST AUSTELL, CORNWALL Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	31	EP		C	17:01	27.37		
CR2	SN	31	ES			17:01	31.58		
CR2	SN	31				17:01	32.06	93	0.03
CR2	SE	31				17:01	31.63	95	0.11
CSA	SZ	4	IP		C	17:01	23.14		
CGH	SZ	40	EP			17:01	29.00		
CCO	SZ	35	IP		C	17:01	28.05		
CCA	SZ	33	IP		C	17:01	27.73		
CST	SZ	29	IP		C	17:01	26.99		
CBW	SZ	30	IP		C	17:01	27.18		
CME	SZ	32	IP		C	17:01	27.48		
CME	SN	32	ES			17:01	31.78		
CTR	SZ	31	IP		C	17:01	27.33		
CRA	SZ	32	IP		C	17:01	27.63		
DYA	SZ	65	EP	4		17:01	31.45		
DCO	SZ	69	IP	4		17:01	31.69		
HTL	SN	76	ES	4		17:01	41.55		
HTL	SZ	76	EP	4	C	17:01	33.19		

January 17 1993 Time: 08:52 55.7 UTC Magnitude: 0.1 ML
Lat: 50.104N Lon: 5.173W Depth: 5.5 km
Grid Ref: 173.17 kmE 27.53 kmN RMS: 0.04 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CTR	SN	7	ES	1		08:52	58.49		
CME	SE	8	ES			08:52	58.75		
CR2	SZ	7	EP		C	08:52	57.36		
CR2	SN	7	ES			08:52	58.50		
CR2	SN	7				08:52	58.53	20	0.05
CR2	SE	7				08:52	58.60	11	0.03
CGH	SZ	6	ES	2		08:52	58.19		
CCO	SZ	4	ES	2		08:52	57.83		
CCA	SZ	10	ES	1		08:52	59.19		
CST	SZ	10	ES			08:52	59.23		
CBW	SZ	7	ES			08:52	58.30		

January 18 1993 Time: 06:03 31.7 UTC Magnitude: 0.2 ML
Lat: 50.247N Lon: 3.942W Depth: 2.0 km
Grid Ref: 261.58 kmE 40.43 kmN RMS: 0.00 secs
Locality: PLYMOUTH, DEVON Quality: C
Comments: 20KM SE OF PLYMOUTH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
DYA	SZ	21	IP		D	06:03	35.81		
DYA	SN	21	ES	1		06:03	38.81		
DYA	SN	21				06:03	39.08	8	0.16
DYA	SE	21				06:03	38.91	11	0.11
DCO	SZ	10	EP	1		06:03	33.88		
DCO	SZ	10	ES	1		06:03	35.45		

January 18 1993 Time: 22:31 50.8 UTC Magnitude: 0.9 ML
Lat: 50.266N Lon: 3.903W Depth: 7.5 km
Grid Ref: 264.39 kmE 42.49 kmN RMS: 0.17 secs
Locality: PLYMOUTH, DEVON Quality: D
Comments: 20KM SE OF PLYMOUTH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
DYA	SZ	19	IP		D	22:31	54.47		
DYA	SN	19				22:31	57.87	50	0.08
DYA	SE	19	ES	1		22:31	57.44		
DYA	SE	19				22:31	57.53	63	0.14
DCO	SZ	6	IP		C	22:31	52.58		
DCO	SZ	6	ES	1		22:31	54.11		
CSA	SZ	71	EP	2		22:32	03.02		
CSA	SZ	71	ES	2		22:32	11.18		

January 19 1993 Time: 22:46 46.0 UTC Magnitude: 1.4 ML
Lat: 52.962N Lon: 4.384W Depth: 22.5 km
Grid Ref: 239.92 kmE 343.23 kmN RMS: 0.07 secs
Locality: LLEYN PENINSULA Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WCB	SN	48				22:47	00.98	19	0.13
WCB	SE	48	ES	2		22:47	00.43		
WCB	SE	48				22:47	01.14	32	0.19
WME	SZ	49	IP		D	22:46	54.58		
WME	SZ	49	ES	2		22:47	00.32		
WLF	SZ	36	IP		D	22:46	52.82		
WLF	SZ	36	ES	2		22:46	57.65		
YRC	SZ	35	IP		D	22:46	52.66		
WPM	SZ	46	IP		C	22:46	54.30		
YLL	SZ	24	IP		C	22:46	51.41		
YRE	SZ	4	IP		D	22:46	49.69		
YRH	SZ	22	IP		C	22:46	51.05		
YRH	SZ	22	ES	2		22:46	54.53		
WFB	SZ	39	EP		C	22:46	53.23		
WFB	SZ	39	ES	2		22:46	58.20		
WCB	SZ	48	IP		C	22:46	54.64		

January 22 1993 Time: 02:09 45.4 UTC Magnitude: 0.7 ML
Lat: 53.165N Lon: 1.717W Depth: 3.8 km
Grid Ref: 418.95 kmE 363.15 kmN RMS: 0.06 secs
Locality: BAKEWELL, DERBYSHIRE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	55	EP	2		02:09	54.90		
CWF	SN	55				02:10	02.62	4	0.07
CWF	SE	55	ES	3		02:10	02.06		
CWF	SE	55				02:10	02.95	3	0.06
KWE	SZ	19	EP	2		02:09	48.93		
KWE	SZ	19	ES	3		02:09	51.77		
KBI	SZ	16	EP	2		02:09	48.58		

January 23 1993 Time: 03:03 3.2 UTC Magnitude: 0.2 ML
Lat: 55.862N Lon: 4.450W Depth: 6.4 km
Grid Ref: 246.67 kmE 665.95 kmN RMS: 0.03 secs
Locality: RENFREW, STRATHCLYDE Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PGB	SZ	6	EP	1		03:03	04.97		
PGB	SN	6				03:03	06.42	22	0.31
PGB	SE	6	ES	2		03:03	06.18		
PGB	SE	6				03:03	06.35	28	0.19
PMS	SZ	19	IP	1	C	03:03	06.82		
PMS	SZ	19	EP			03:03	06.76		
PMS	SZ	19	ES	2		03:03	09.55		
PCO	SZ	26	EP	3		03:03	08.14		
PCO	SZ	26	ES	3		03:03	11.73		

January 25 1993 Time: 20:33 56.9 UTC Magnitude: 1.5 ML
Lat: 52.850N Lon: 2.230W Depth: 10.2 km
Grid Ref: 384.52 kmE 328.08 kmN RMS: 0.43 secs
Locality: ECCLESHALL, STAFFS Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	64	EP	2		20:34	08.13		
CWF	SN	64	ES			20:34	14.91		
CWF	SN	64				20:34	15.98	30	0.15
CWF	SE	64				20:34	15.71	11	0.18
KWE	SZ	32	EP	1	C	20:34	03.29		
KWE	SZ	32	ES	3		20:34	06.46		
KBI	SZ	65	EP	2		20:34	08.54		
SSP	SZ	77	IP		D	20:34	09.89		
SSP	SN	77	ES	2		20:34	18.51		
SSP	SN	77				20:34	18.87	20	0.15
SSP	SE	77				20:34	20.99	14	0.23
HAE	SZ	93	IP	1	C	20:34	12.64		
HCG	SZ	113	EP	2		20:34	15.47		
HTR	SZ	111	EP	2		20:34	15.13		
HTR	SZ	111	ES	2		20:34	27.93		
SBD	SZ	70	IP		D	20:34	08.46		
SBD	SZ	70	ES	2		20:34	16.55		
KBI	SZ	65	ES	3		20:34	15.13		

January 31 1993 Time: 18:39 41.0 UTC Magnitude: 1.0 ML
Lat: 53.200N Lon: 1.044W Depth: 0.5 km
Grid Ref: 463.86 kmE 367.47 kmN RMS: 0.09 secs
Locality: EDWINSTOWE, NOTTS Quality: D
Comments: C/F,FELT EDWINSTOWE Intensity: 2+

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	54	IP	1	C	18:39	51.07		
CWF	SN	54	ES	3		18:39	58.36		
CWF	SN	54				18:39	57.92	6	0.29
CWF	SE	54				18:39	58.42	8	0.13
KWE	SZ	57	EP	2		18:39	51.49		
KWE	SZ	57	ES	3		18:39	58.96		
KBI	SZ	33	EP	2		18:39	47.36		
KBI	SZ	33	ES	3		18:39	52.34		

February 2 1993 Time: 00:50 25.9 UTC Magnitude: 1.0 ML
Lat: 56.085N Lon: 5.065W Depth: 1.5 km
Grid Ref: 209.33 kmE 692.27 kmN RMS: 0.03 secs
Locality: LOCH ECK, STRATHCLYDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PGB	SZ	48	IP	1	C	00:50	34.71		
PCA	SZ	66	EP	2	C	00:50	37.56		
PMS	SZ	33	IP	1	C	00:50	32.21		
PMS	SZ	33	ES	3		00:50	36.91		
PCO	SZ	61	EP	2	C	00:50	36.83		
PGB	SN	48				00:50	41.13	10	0.29
PGB	SE	48	ES	2		00:50	41.04		
PGB	SE	48				00:50	41.41	19	0.77

February 2 1993 Time: 08:15 9.1 UTC Magnitude: 0.8 ML
Lat: 57.225N Lon: 5.435W Depth: 3.3 km
Grid Ref: 192.66 kmE 820.12 kmN RMS: 0.07 secs
Locality: SHIEL BRIDGE, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SZ	18	IPG		C	08:15	12.70		
KAC	SZ	32	EPG	2	D	08:15	14.94		
KAC	SZ	32	ES	3		08:15	18.24		
KSB	SZ	2	IPG	1	D	08:15	09.94		
KSB	SZ	2	ES	2		08:15	10.61		
KPL	SE	18	ISG	1		08:15	15.21		
KPL	SE	18				08:15	15.30	67	0.21
KPL	SN	18				08:15	15.29	39	0.21
KSK	SZ	81	EP	3		08:15	22.89		

February 5 1993 Time: 03:44 57.9 UTC Magnitude: 1.2 ML
Lat: 53.216N Lon: 0.990W Depth: 0.4 km
Grid Ref: 467.42 kmE 369.32 kmN RMS: 0.13 secs
Locality: EDWINSTOWE, NOTTS Quality: D
Comments: C/F,FELT EDWINSTOWE Intensity: 2+

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	57	EP	3		03:45	08.48		
KWE	SZ	61	EP	3		03:45	08.87		
KWE	SZ	61	ES	3		03:45	16.65		
KWE	SZ	61				03:45	16.79	14	0.39
KBI	SZ	36	EP	3		03:45	04.82		
KBI	SZ	36	ES	3		03:45	10.16		
KBI	SZ	36				03:45	11.18	19	0.20

February 6 1993 Time: 01:48 18.9 UTC Magnitude: 1.1 ML
Lat: 56.129N Lon: 3.686W Depth: 1.6 km
Grid Ref: 295.23 kmE 694.19 kmN RMS: 0.10 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F,FELT FOREST MILL Intensity: 2+

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SN	39	ES	3		01:48	31.31		
EAB	SZ	41	EP	3		01:48	26.41		
EAB	SZ	41	ES	3		01:48	32.07		
EBH	SZ	17	EP	2		01:48	22.28		
EBH	SZ	17	ES	3		01:48	25.07		
EBH	SZ	17				01:48	30.85	171	0.76
ELO	SZ	38	EP	2		01:48	25.98		
ELO	SZ	38	ES	3		01:48	31.25		
PCO	SZ	30	EP	2	D	01:48	24.70		
PCO	SZ	30	ES	3		01:48	28.58		
PCO	SZ	30				01:48	34.54	34	0.61

February 7 1993 Time: 17:33 44.1 UTC Magnitude: 1.0 ML
Lat: 52.948N Lon: 4.407W Depth: 22.0 km
Grid Ref: 238.28 kmE 341.67 kmN RMS: 0.09 secs
Locality: LLEYN PENINSULA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WCB	SZ	49	EP	3		17:33	52.43		
WCB	SE	49	ES	3		17:33	58.74		
WCB	SN	49				17:34	00.52	8	0.07
WCB	SE	49				17:33	59.55	14	0.22
WPM	SZ	48	IP	1	C	17:33	52.64		
WPM	SZ	48	ES	2		17:33	58.49		
YRC	SZ	36	EP	1	D	17:33	50.99		
YRC	SZ	36	ES	2		17:33	55.37		
WME	SZ	51	IP	1	C	17:33	52.92		
WME	SZ	51	ES	2		17:33	59.06		
YLL	SZ	27	IP		C	17:33	49.74		
YLL	SZ	27	ES	3		17:33	53.46		

February 9 1993 Time: 13:02 33.5 UTC Magnitude: 1.7 ML
Lat: 51.553N Lon: 3.058W Depth: 10.0 km
Grid Ref: 326.64 kmE 184.39 kmN RMS: 0.25 secs
Locality: CARDIFF, S GLAMORGAN Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
HTL	SN	117				13:03	07.01	17	0.32
HTL	SE	117	ES	2		13:03	06.15		
HTL	SE	117				13:03	07.79	14	0.18
HTL	SZ	117	EP	2		13:02	53.00		
HSA	SZ	79	EP	2		13:02	46.48		
HEX	SZ	75	EP	2		13:02	46.52		
HEX	SZ	75	ES	2		13:02	55.55		
MCH	SN	50				13:02	48.73	19	0.07
MCH	SE	50	ES	1		13:02	48.46		
MCH	SE	50				13:02	48.52	71	0.15
MCH	SZ	50	EP	1		13:02	42.16		
HAE	SZ	64	EP	1		13:02	44.24		
HCG	SZ	95	EP	2		13:02	49.69		
HTR	SZ	60	EP	2		13:02	43.76		

February 10 1993 Time: 03:37 29.2 UTC Magnitude: 0.8 ML
Lat: 56.938N Lon: 5.144W Depth: 2.8 km
Grid Ref: 208.76 kmE 787.33 kmN RMS: 0.13 secs
Locality: LOCH ARKAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KNR	SZ	17	EP	2		03:37	32.39		
KNR	SZ	17	ES	2		03:37	34.82		
KAR	SZ	42	EP	3		03:37	36.82		
KAR	SZ	42	ES	3		03:37	42.15		
KSB	SZ	35	EP	2	C	03:37	35.64		
KSB	SZ	35	ES	3		03:37	39.92		
KPL	SZ	54	EP	2	C	03:37	38.96		
KPL	SN	54				03:37	46.06	4	0.43
KPL	SE	54	ES	2		03:37	45.59		
KPL	SE	54				03:37	45.81	6	0.52

February 11 1993 Time: 16:19 3.2 UTC Magnitude: 1.0 ML
Lat: 55.007N Lon: 2.874W Depth: 12.3 km
Grid Ref: 344.13 kmE 568.37 kmN RMS: 0.14 secs
Locality: LONGTOWN, CUMBRIA Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ECK	SZ	25	EPG	2	C	16:19	08.04		
ECK	SZ	25	ESG	3		16:19	11.41		
ESK	SZ	40	EPG	2		16:19	10.39		
ESK	SN	40				16:19	15.97	14	0.10
ESK	SE	40	ESG	3		16:19	15.42		
ESK	SE	40				16:19	15.83	14	0.13
GCD	SZ	70	EPG	2		16:19	15.15		
GCD	SZ	70	ESG	3		16:19	24.00		
XDE	SZ	68	EPG	3		16:19	15.18		
BBO	SN	38	ESG	3		16:19	15.55		
BBO	SN	38				16:19	16.95	16	0.14
BBO	SE	38				16:19	16.44	39	0.18
CKE	SZ	49	EPG	2		16:19	11.74		
CSF	SZ	67	EPG	3		16:19	14.78		
CSF	SZ	67	ESG	3		16:19	22.48		
CDU	SZ	78	EPG	3		16:19	16.15		
LMI	SE	92				16:19	31.26	5	0.21
LMI	SN	92	ES	4		16:19	29.82		
LMI	SN	92				16:19	31.03	5	0.16
BHH	SZ	24	IPG	1	C	16:19	08.08		
BHH	SN	24	ISG	1		16:19	11.56		
BHH	SN	24				16:19	11.65	38	0.16
BHH	SE	24				16:19	12.10	30	0.13
BNA	SZ	48	EPG	3		16:19	11.86		
BNA	SZ	48	ESG	3		16:19	17.87		
BBO	SZ	38	IPG	1	D	16:19	10.25		
BTA	SZ	17	IPG	1	C	16:19	07.05		
BTA	SZ	17	ESG	3		16:19	09.31		
BWH	SZ	53	EPG	3		16:19	12.48		
BWH	SZ	53	ESG	3		16:19	19.09		
BBH	SZ	15	IPG		D	16:19	06.76		
BBH	SZ	15	ESG	3		16:19	09.04		
BDL	SZ	23	EPG	2		16:19	08.07		
BDL	SZ	23	ESG	3		16:19	11.32		
GIM	SE	130				16:19	41.75	3	0.16
GIM	SN	130	ES	4		16:19	39.42		
GIM	SN	130				16:19	40.98	2	0.11

February 11 1993 Time: 19:46 12.6 UTC Magnitude: 3.8 ML
Lat: 58.966N Lon: 1.449E Depth: 6.4 km
Grid Ref: 598.30 kmE 1013.79 kmN RMS: 0.39 secs
Locality: NORTHERN NORTH SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SN	439	ES	3		19:47	54.59		
EDI	SN	439				19:47	56.70	116	0.24
EDI	SE	439				19:47	56.32	93	0.42
EAU	SZ	455	EP	3		19:47	13.87		

EBL	SZ	447	EP	2		19:47	12.70		
ESY	SZ	418	EP	2		19:47	08.98		
EAB	SZ	464	EP	2		19:47	15.09		
EBH	SZ	424	EP	3		19:47	10.44		
EBH	SZ	424	ES	4		19:47	52.25		
EDU	SZ	378	EP	2		19:47	04.36		
EDU	SZ	378	ES	3		19:47	42.50		
ELO	SZ	415	EP	2		19:47	08.53		
EDR	SZ	329	EP	2		19:46	57.89		
EDI	SZ	439	EP	2		19:47	11.89		
FOO	SZ	354	EP	2		19:47	00.70		
FOO	SN	354	ES	2		19:47	36.21		
SAN	SZ	192	IP		C	19:46	41.12		
SAN	SZ	192	ES	2		19:47	01.28		
WAL	SZ	225	EP	1		19:46	45.35		
YEL	SZ	227	IP		C	19:46	45.83		
MCD	SN	316	ES	1		19:47	29.02		
MCD	SN	316				19:47	30.74	144	0.21
MCD	SE	316				19:47	30.60	122	0.23
MCD	SZ	316	EP	1		19:46	57.07		
MME	SZ	319	EP	2		19:46	57.70		
MME	SZ	319	ES	2		19:47	29.48		
MVH	SZ	349	EP			19:47	01.06		
MVH	SZ	349	ES	3		19:47	35.53		
MLA	SZ	289	EP	1		19:46	53.85		
MFI	SZ	266	EP	1		19:46	51.42		
LRW	SZ	198	EP			19:46	41.82		
LRW	SN	198	ES	2		19:47	03.70		
LRW	SN	198				19:47	06.68	368	0.48
LRW	SE	198				19:47	06.80	301	0.31
BHH	SZ	516	EP	3		19:47	20.92		
BHH	SN	516				19:48	15.66	99	0.50
BHH	SE	516				19:48	16.43	81	0.27
BWH	SZ	523	EP	1		19:47	22.11		
BWH	SZ	523	ES	2		19:48	13.27		
BBH	SZ	503	EP			19:47	19.50		
BBH	SZ	503	ES	1		19:48	08.87		
BDL	SZ	535	EP	1		19:47	23.66		
BDL	SZ	535	ES	2		19:48	15.93		
ASK	SZ	270	ES	3		19:47	19.40		
SUE	SZ	297	ES	3		19:47	24.68		

February 11 1993 Time: 21:19 25.1 UTC **Magnitude: 0.6 ML**
Lat: 56.116N Lon: 3.672W **Depth: 1.0 km**
Grid Ref: 296.05 kmE 692.72 kmN **RMS: 0.09 secs**
Locality: CLACKMANNAN, CENTRAL **Quality: B**
Comments: C/F,FELT FOREST MILL **Intensity: 2+**

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SZ	37	EP	2		21:19	32.26		
EDI	SN	37	ES	3		21:19	37.12		
EAU	SZ	33	EP	2		21:19	31.44		
EAU	SZ	33	ES	3		21:19	36.30		
EBH	SZ	18	EP	2	C	21:19	28.82		
EBH	SZ	18	ES	3		21:19	31.69		
EBH	SZ	18				21:19	37.21	61	0.82
PCO	SZ	30	EP	2		21:19	30.96		
PCO	SZ	30	ES	3		21:19	35.09		
PCO	SZ	30				21:19	37.44	18	0.81

February 13 1993 Time: 20:36 2.4 UTC **Magnitude: 0.9 ML**
Lat: 56.071N Lon: 4.021W **Depth: 7.5 km**
Grid Ref: 274.20 kmE 688.30 kmN **RMS: 0.08 secs**
Locality: CARRON VALLEY, CENTRAL **Quality: B**

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SN	55	ES	3		20:36	18.42		
EDI	SN	55				20:36	21.26	8	0.55
EDI	SE	55				20:36	20.78	7	0.55
EAU	SZ	44	ES	3		20:36	15.68		
EDU	SZ	82	ES	3		20:36	25.96		
PCO	SZ	10	IP		C	20:36	04.90		
PCO	SZ	10	IS	2		20:36	06.67		
EBH	SZ	38	EP	3		20:36	09.10		
EBH	SZ	38	ES	2		20:36	13.92		
PGB	SZ	41	EP	3		20:36	10.13		
PGB	SN	41				20:36	17.90	7	0.24
PGB	SE	41	ES	3		20:36	14.21		
PGB	SE	41				20:36	18.06	14	0.35
PMS	SZ	52	EP	3		20:36	11.39		
PMS	SZ	52	ES	3		20:36	17.62		

February 15 1993 Time: 12:29 27.0 UTC **Magnitude: 0.5 ML**
Lat: 50.109N Lon: 5.175W **Depth: 6.2 km**
Grid Ref: 172.99 kmE 28.15 kmN **RMS: 0.02 secs**
Locality: CONSTANTINE, CORNWALL **Quality: B**

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP		C	12:29	28.56		
CR2	SN	6	ES			12:29	29.78		
CR2	SN	6				12:29	29.80	58	0.04
CR2	SE	6				12:29	29.83	26	0.04
CGH	SZ	7	EP			12:29	28.56		
CGH	SZ	7	ES			12:29	29.77		
CST	SZ	10	IP		C	12:29	28.97		
CST	SZ	10	ES			12:29	30.46		
CBW	SZ	6	EP			12:29	28.53		
CBW	SZ	6	ES			12:29	29.67		
CME	SN	8	ES	2		12:29	30.00		
CCA	SZ	9	IP		C	12:29	28.94		
CRA	SZ	6	EP	2		12:29	28.58		

February 15 1993 Time: 12:45 17.9 UTC **Magnitude: 0.2 ML**
Lat: 50.111N Lon: 5.170W **Depth: 7.2 km**
Grid Ref: 173.38 kmE 28.32 kmN **RMS: 0.02 secs**
Locality: CONSTANTINE, CORNWALL **Quality: B**

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SN	6	ES			12:45	20.83		
CR2	SN	6				12:45	20.84	23	0.05
CR2	SE	6				12:45	20.88	19	0.03
CGH	SZ	7	ES	2		12:45	20.90		
CCO	SZ	3	ES	2		12:45	20.31		
CST	SZ	9	EP	2		12:45	19.97		
CST	SZ	9	ES			12:45	21.46		
CBW	SZ	6	ES			12:45	20.71		
CTR	SN	6	ES	2		12:45	20.81		
CRA	SN	6	ES	2		12:45	20.80		

February 18 1993 Time: 05:14 20.9 UTC **Magnitude: 0.3 ML**
Lat: 52.881N Lon: 4.571W **Depth: 10.4 km**
Grid Ref: 227.04 kmE 334.67 kmN **RMS: 0.05 secs**
Locality: GARN, GWYNEDD **Quality: B**

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WLF	SZ	47	EP	3		05:14	28.85		
WLF	SZ	47	ES	3		05:14	34.32		
WLF	SZ	47				05:14	34.63	2	0.09
YRC	SZ	41	EP	3		05:14	28.06		
YRC	SZ	41	ES	3		05:14	33.08		
YRC	SZ	41		3		05:14	33.31	4	0.14
WPM	SZ	61	EP	3		05:14	31.36		
YLL	SZ	39	IP	1	C	05:14	27.78		
YRH	SZ	7	IP	1	C	05:14	23.01		
YRH	SZ	7	ES	2		05:14	24.46		
YRH	SZ	7				05:14	24.70	18	0.05
WFB	SZ	42	EP	2		05:14	28.24		

February 23 1993 Time: 03:53 49.6 UTC **Magnitude: 1.4 ML**
Lat: 56.130N Lon: 3.716W **Depth: 0.9 km**
Grid Ref: 293.36 kmE 694.33 kmN **RMS: 0.10 secs**
Locality: CLACKMANNAN, CENTRAL **Quality: B**
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SN	40	ES	3		03:54	02.86		
EDI	SN	40				03:54	07.57	37	0.51
EDI	SE	40				03:54	03.92	35	0.60
EAU	SZ	36	EP	2		03:53	56.40		
EBL	SZ	58	EP	2		03:53	59.96		
EBL	SZ	58	ES	3		03:54	07.41		
EAB	SZ	39	EP	2		03:53	56.99		
EAB	SZ	39	ES	3		03:54	02.35		
EBH	SZ	18	EP	3		03:53	53.59		
EDU	SZ	64	EP	2		03:54	01.09		
EDU	SZ	64	ES	3		03:54	09.56		
ELO	SZ	38	EP	2		03:53	56.80		
EDI	SZ	40	EP	2	D	03:53	57.12		
PGB	SZ	59	EP	2		03:54	00.46		
PGB	SN	59	ES	3		03:54	08.04		
PGB	SN	59				03:54	11.83	18	0.38
PGB	SE	59				03:54	12.52	19	0.69
PCA	SZ	59	EP	2		03:54	00.26		
PCA	SZ	59	ES	3		03:54	07.52		
PMS	SZ	72	EP	3		03:54	02.38		
PCO	SZ	29	EP	2	C	03:53	55.39		
PCO	SZ	29	ES	3		03:54	00.22		

February 27 1993 Time: 01:15 58.9 UTC **Magnitude: 1.8 ML**
Lat: 53.031N Lon: 2.203W **Depth: 7.2 km**
Grid Ref: 386.38 kmE 348.26 kmN **RMS: 0.08 secs**
Locality: STOKE-ON-TRENT, STAFFS **Quality: B**

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	69	EP	1		01:16	10.70		
CWF	SN	69	ES	2		01:16	18.88		
CWF	SN	69				01:16	19.33	29	0.19
CWF	SE	69				01:16	19.32	28	0.18
KWE	SZ	24	EP	2		01:16	03.18		
KBI	SZ	52	IP	1	C	01:16	07.85		
YLL	SZ	132	EP	2		01:16	20.50		
MCH	SN	127	ES	2		01:16	34.94		
MCH	SN	127				01:16	38.31	20	0.29
MCH	SE	127				01:16	38.39	13	0.20
MCH	SZ	127	EP	2		01:16	20.12		
SBD	SZ	72	EP	1		01:16	11.19		
HAE	SZ	113	EP	3		01:16	17.72		
HTR	SZ	128	ES	2		01:16	35.19		

March 2 1993 Time: 14:36 15.2 UTC Magnitude: 1.9 ML
Lat: 51.047N Lon: 2.701W Depth: 12.7 km
Grid Ref: 350.85 kmE 127.77 kmN RMS: 0.18 secs
Locality: SOMERTON, SOMERSET Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
DYA	SZ	110	EP	1		14:36	33.04		
DYA	SN	110	ES	4		14:36	46.40		
DYA	SN	110				14:36	53.92	19	0.51
DYA	SE	110	ES	2		14:36	46.42		
DYA	SE	110				14:36	47.31	19	0.30
HTL	SN	125	ES			14:36	50.64		
HTL	SN	125				14:36	52.79	29	0.23
HTL	SE	125				14:36	54.97	23	0.51
DCO	SZ	116	EP	2		14:36	34.20		
HEX	SZ	77	EP		D	14:36	27.73		
HEX	SZ	77	ES	4		14:36	35.77		
HP07	SZ	3	IP		D	14:36	17.38		
HP07	SZ	3	IS	2		14:36	19.62		
HP09	SZ	12	IP		C	14:36	18.16		
HP09	SZ	12	IS	2		14:36	20.40		
HP10	SZ	40	EP	1	D	14:36	22.27		
HP10	SZ	40	ES	2		14:36	27.57		
HP06	SZ	44	EP	1		14:36	22.76		
HP06	SZ	44	ES	2		14:36	28.56		
HP03	SZ	29	EP	1		14:36	20.44		
HP03	SZ	29	ES	2		14:36	24.37		
HP02	SZ	37	EP	1	D	14:36	21.73		
HP02	SZ	37	IS	2		14:36	26.75		
MCH	SN	108	ES	2		14:36	45.54		
MCH	SN	108				14:36	45.77	24	0.25
MCH	SE	108				14:36	46.02	49	0.32
MCH	SZ	108	IP		C	14:36	32.71		
HAE	SZ	111	EP	1	D	14:36	33.43		
HTR	SZ	121	EP	1	C	14:36	34.83		
HTR	SZ	121	ES	3		14:36	48.99		

March 7 1993 Time: 04:13 19.0 UTC Magnitude: 0.5 ML
Lat: 55.269N Lon: 3.327W Depth: 12.9 km
Grid Ref: 315.67 kmE 598.01 kmN RMS: 0.09 secs
Locality: NEWTON, D & G Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BWH	SZ	23	IP		C	04:13	23.81		
BWH	SZ	23	ES	3		04:13	27.16		
BBH	SZ	30	EP	2		04:13	24.74		
BBH	SZ	30	ES	3		04:13	28.49		
BDL	SZ	58	EP	3		04:13	29.13		
ECK	SZ	16	EP	3		04:13	22.61		
ECK	SZ	16	ES	3		04:13	25.41		
ESK	SN	9	ES	2		04:13	23.99		
ESK	SN	9				04:13	24.40	18	0.16
ESK	SE	9				04:13	24.36	21	0.10
ESK	SZ	9	EP	2		04:13	21.98		
GCD	SZ	60	ES	3		04:13	36.70		
BHH	SZ	21	IP		D	04:13	23.55		
BHH	SN	21	ES	3		04:13	26.77		
BHH	SN	21				04:13	27.07	13	0.11
BHH	SE	21				04:13	27.13	29	0.17
BNA	SZ	39	EP	2		04:13	26.00		
BNA	SZ	39	ES	3		04:13	30.98		
BBO	SZ	60	EP	2		04:13	29.47		
BBO	SN	60	ES	3		04:13	36.91		
BTA	SZ	58	EP	3		04:13	29.11		
BTA	SN	58	ES	3		04:13	36.47		
BTA	SN	58				04:13	36.55	4	0.31
BTA	SE	58				04:13	36.91	3	0.15

March 7 1993 Time: 12:39 44.2 UTC Magnitude: 0.7 ML
Lat: 49.436N Lon: 2.157W Depth: 12.4 km
Grid Ref: 388.62 kmE -51.52 kmN RMS: 0.01 secs
Locality: NORTH OF JERSEY Quality: C
Comments: 25KM NORTH OF JERSEY OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
JRS	SN	28	ES	3		12:39	53.24		
JRS	SN	28				12:39	53.38	17	0.09
JRS	SE	28				12:39	53.29	20	0.10
JLP	SZ	22	EP	1	D	12:39	48.58		
JVM	SZ	25	EP	1	D	12:39	49.00		
JQS	SZ	29	EP	1		12:39	49.67		
JQS	SZ	29	ES	3		12:39	53.68		
JQE	SZ	28	EP	2		12:39	49.47		
JRS	SZ	28	EP	2		12:39	49.43		

March 9 1993 Time: 13:22 9.4 UTC Magnitude: 2.0 ML
Lat: 56.655N Lon: 5.236W Depth: 2.5 km
Grid Ref: 201.65 kmE 756.17 kmN RMS: 0.23 secs
Locality: LOCH LINNHE, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SZ	151	EP	3		13:22	34.33		
EDI	SN	151				13:22	57.94	34	0.60
EDI	SE	151	ES	3		13:22	51.88		
EDI	SE	151				13:22	53.55	29	0.28
EAU	SZ	143	EP	2		13:22	33.11		
EBL	SZ	168	EP	3		13:22	36.67		
EDU	SZ	137	EP	3		13:22	32.17		
EBH	SZ	116	EP	3		13:22	28.88		
EAB	SZ	76	EP	2		13:22	22.20		
EAB	SZ	76	ES	3		13:22	31.41		
KNR	SZ	25	IP	1	C	13:22	14.05		
KNR	SZ	25	ES	3		13:22	16.91		
KAR	SZ	47	IP	1	C	13:22	17.53		
KSB	SZ	63	IP	1		13:22	20.24		
KSB	SZ	63	ES	3		13:22	28.29		
KSK	SZ	127	EP	3		13:22	30.88		
KSK	SZ	127	ES	3		13:22	46.20		
KPL	SZ	80	IP	1		13:22	23.25		
KPL	SN	80	ES	3		13:22	32.98		
KPL	SN	80				13:22	37.87	24	0.13
KPL	SE	80				13:22	39.96	21	0.30
PGB	SZ	105	EP	2		13:22	27.15		
PGB	SN	105	ES	3		13:22	39.26		
PGB	SN	105				13:22	43.14	42	0.27
PGB	SE	105				13:22	42.67	33	0.37
PCA	SZ	123	EP	2		13:22	29.62		
PCO	SZ	103	EP	2		13:22	26.60		
PCO	SZ	103	ES	3		13:22	39.11		
ELO	SZ	96	EP	3		13:22	25.44		
ELO	SZ	96	ES	3		13:22	37.32		
EDR	SZ	167	EP	3		13:22	37.09		
GAL	SN	202	ES	4		13:23	03.26		
GAL	SZ	202	EP	3		13:22	38.12		
GCL	SZ	185	EP	3		13:22	39.35		
GCL	SZ	185	ES	3		13:22	59.39		
GMK	SZ	148	EP	2		13:22	32.22		
GMK	SZ	148	ES	3		13:22	50.81		

March 10 1993 Time: 05:39 16.2 UTC Magnitude: 1.0 ML
Lat: 56.120N Lon: 3.721W Depth: 0.5 km
Grid Ref: 293.01 kmE 693.21 kmN RMS: 0.09 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SN	40				05:39	30.78	17	0.98
EDI	SE	40	ES	3		05:39	29.46		
EDI	SE	40				05:39	30.54	14	0.42
EAU	SZ	35	EP	3		05:39	22.93		
EBL	SZ	57	EP	3		05:39	26.49		
EAB	SZ	39	IP	1	D	05:39	23.69		
EBH	SZ	20	EP	3		05:39	20.20		
EDU	SZ	65	EP	3		05:39	27.81		
ELO	SZ	39	EP	2		05:39	23.51		
EDR	SZ	115	EP	2		05:39	36.27		
EDI	SZ	40	EP	2	D	05:39	23.82		
PGB	SN	59	ES	2		05:39	34.47		
PGB	SN	59				05:39	34.97	10	0.26
PGB	SE	59				05:39	36.96	6	0.18
PCA	SZ	57	EP	3		05:39	26.45		
PGB	SZ	59	EP	3		05:39	26.78		
PCO	SZ	28	EP	2		05:39	21.44		
PCO	SZ	28	ES	3		05:39	25.76		

March 10 1993 Time: 08:40 51.8 UTC Magnitude: 0.4 ML
Lat: 49.970N Lon: 5.349W Depth: 17.9 km
Grid Ref: 159.90 kmE 13.22 kmN RMS: 0.03 secs
Locality: LIZARD POINT, CORNWALL Quality: C
Comments: SW OF LIZARD POINT

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SN	25	ES			08:41	00.99		
CR2	SN	25				08:41	01.04	10	0.07
CR2	SE	25				08:41	01.00	13	0.04
CCO	SZ	21	ES			08:41	00.03		
CCA	SZ	26	ES			08:41	00.98		
CST	SZ	28	ES			08:41	01.62		
CBW	SZ	26	EP			08:40	57.18		
CBW	SZ	26	ES			08:41	01.03		
CTR	SE	26	ES			08:41	01.04		
CME	SZ	26	ES			08:41	00.95		

March 12 1993 Time: 15:28 3.7 UTC Magnitude: -0.3 ML
Lat: 57.231N Lon: 5.664W Depth: 4.5 km
Grid Ref: 178.88 kmE 821.51 kmN RMS: 0.02 secs
Locality: ISLE OF SKYE, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	12				15:28	08.25	5	0.10
KPL	SE	12	ES	2		15:28	08.10		
KPL	SE	12				15:28	08.25	6	0.13
KPL	SZ	12	EP	2	D	15:28	06.29		
KSB	SZ	15	IP		C	15:28	06.70		
KSB	SZ	15	ES	1		15:28	08.90		

March 14 1993 Time: 02:48 57.2 UTC Magnitude: 2.4 ML
Lat: 54.430N Lon: 0.992W Depth: 1.8 km
Grid Ref: 465.42 kmE 504.29 kmN RMS: 0.21 secs
Locality: WESTERDALE, N YORKSHIRE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GCD	SZ	197	EP	3		02:49	27.85		
XDE	SZ	162	EP	3		02:49	24.09		
XDE	SZ	162	ES	3		02:49	42.05		
CKE	SZ	138	EP	2		02:49	20.55		
CKE	SZ	138	ES	3		02:49	36.87		
CSF	SZ	146	IP	1	D	02:49	21.81		
CSF	SZ	146	ES	3		02:49	38.56		
CDU	SZ	144	EP	2		02:49	20.97		
CDU	SZ	144	ES	3		02:49	37.69		
LMI	SZ	153	EP	2		02:49	22.69		
LMI	SN	153	ES	3		02:49	40.10		
LMI	SN	153				02:49	43.23	44	0.32
LMI	SE	153				02:49	45.76	58	0.79
HPK	SZ	67	IP	1	C	02:49	09.05		
HPK	SN	67	ES	3		02:49	17.45		
HPK	SN	67				02:49	23.05	204	0.53
HPK	SE	67				02:49	22.16	240	0.62
LHO	SZ	114	IP	1	C	02:49	16.68		
LCP	SZ	46	EP	2		02:49	05.39		
LWH	SZ	23	EP	2		02:49	01.96		
CWF	SZ	189	EP	3		02:49	26.65		
CWF	SN	189				02:49	52.46	19	0.30
CWF	SE	189				02:49	51.70	33	0.26
KWE	SZ	167	EP	2		02:49	23.98		
KBI	SZ	136	EP	2		02:49	20.22		
EDI	SN	217				02:50	08.17	60	0.60
EDI	SE	217				02:50	08.09	33	0.51
EBL	SZ	199	EP	3		02:49	28.51		
ESY	SZ	195	EP	3		02:49	27.58		
EDR	SZ	294	EP	3		02:49	40.08		
EDI	SZ	217	EP	2		02:49	31.06		
LMK	SZ	117	EP	3		02:49	17.43		
ELO	SZ	285	EP	3		02:49	39.20		
ESK	SE	173				02:49	47.70	16	0.21
ESK	SZ	173	EP	2		02:49	25.86		
XAL	SZ	93	EP	2		02:49	12.93		
XAL	SZ	93	ES	3		02:49	24.62		
XSO	SZ	143	EP	2		02:49	20.78		
XSO	SZ	143	ES	3		02:49	38.51		
ECK	SZ	161	IP	1	C	02:49	24.06		
ECK	SZ	161	ES	3		02:49	42.73		
ESK	SN	173	ES	3		02:49	44.73		
ESK	SN	173				02:49	47.20	22	0.18
BHH	SZ	161	EP	3		02:49	24.15		
BHH	SN	161	ES	3		02:49	42.46		
BNA	SZ	180	EP	2		02:49	26.81		
BBO	SZ	150	EP	2		02:49	22.22		
BBO	SN	150	ES	2		02:49	39.28		
BBO	SN	150				02:49	41.03	73	0.43
BBO	SE	150				02:49	40.32	78	0.30
BTA	SZ	121	EP	3		02:49	17.64		
BTA	SN	121				02:49	35.71	128	0.47
BTA	SE	121	ES	3		02:49	32.45		
BTA	SE	121				02:49	38.47	133	0.56
BWH	SZ	190	EP	3		02:49	27.79		
BBH	SZ	147	IP	1	D	02:49	21.96		
BDL	SZ	133	EP	2		02:49	19.77		

March 15 1993 Time: 14:23 29.1 UTC Magnitude: 2.4 ML
Lat: 53.081N Lon: 1.110W Depth: 0.1 km
Grid Ref: 459.61 kmE 354.17 kmN RMS: 0.22 secs
Locality: FARNSFIELD, NOTTS Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	154	EP	2		14:23	55.15		
SSP	SN	154	ES	2		14:24	13.88		
SSP	SN	154				14:24	18.71	37	0.58
SSP	SE	154				14:24	18.87	43	0.39
HAE	SZ	152	EP	2		14:23	54.79		
HGH	SZ	198	EP	3		14:24	00.81		
HLM	SZ	135	EP	2		14:23	51.94		
HLM	SZ	135	ES	2		14:24	08.56		
HTR	SZ	184	EP	1		14:23	59.61		
SBD	SZ	146	EP	1		14:23	54.11		
HPK	SZ	103	EP	2	D	14:23	46.74		
HPK	SN	103	ES	3		14:23	59.21		
HPK	SN	103				14:24	03.35	375	0.31
HPK	SE	103				14:24	03.41	391	0.24
LHO	SZ	72	EP	2	D	14:23	41.72		
LWH	SZ	142	EP	3		14:23	53.20		
LWH	SZ	142	ES	3		14:24	10.07		
MCH	SZ	176	EP	1	D	14:23	58.56		
MCH	SN	176	ES	2		14:24	19.05		
MCH	SN	176				14:24	20.07	53	0.24
MCH	SE	176				14:24	21.47	73	0.50
CWF	SZ	40	EP	2		14:23	36.81		
CWF	SN	40				14:23	42.19	62	0.12
CWF	SE	40	ES	3		14:23	42.27		
CWF	SE	40				14:23	44.61	92	0.48
KWE	SZ	50	EP	1	C	14:23	38.55		
KWE	SZ	50	ES	3		14:23	45.75		
KBI	SZ	34	EP	1		14:23	35.69		
KBI	SZ	34	ES	2		14:23	40.44		
KEY	SZ	23	EP	2		14:23	33.78		
HCG	SZ	192	EP	3		14:24	00.40		
HCG	SZ	192	ES	2		14:24	22.82		

March 16 1993 Time: 11:13 6.9 UTC Magnitude: 1.7 ML
Lat: 52.859N Lon: 2.138W Depth: 3.9 km
Grid Ref: 390.72 kmE 329.10 kmN RMS: 0.27 secs
Locality: WHITGREAVE, STAFFS Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	112	ES	2		11:13	39.35		
MCH	SN	112				11:13	41.26	16	0.15
MCH	SE	112				11:13	41.08	20	0.25
MCH	SZ	112	EP	1		11:13	25.82		
SBD	SZ	76	ES	2	C	11:13	28.67		
HAE	SZ	96	EP	1		11:13	23.55		
HCG	SZ	119	EP	1		11:13	26.97		
HCG	SZ	119	ES	2		11:13	41.12		
HTR	SZ	116	EP	3		11:13	26.66		
HLM	SZ	63	EP	1		11:13	17.97		
HLM	SZ	63	ES	2		11:13	26.47		
CWF	SZ	58	EP	2		11:13	16.70		
CWF	SN	58	ES	2		11:13	23.35		
CWF	SN	58				11:13	23.72	31	0.14
CWF	SE	58				11:13	23.57	30	0.04
KWE	SZ	26	EP	2		11:13	11.75		

March 17 1993 Time: 04:50 37.5 UTC Magnitude: 0.8 ML
Lat: 57.109N Lon: 5.393W Depth: 8.6 km
Grid Ref: 194.54 kmE 807.06 kmN RMS: 0.35 secs
Locality: KINLOCH HOURN, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SZ	30	EP	2		04:50	43.23		
KPL	SN	30				04:50	46.82	15	0.11
KPL	SE	30	ES	3		04:50	46.49		
KPL	SE	30				04:50	46.57	23	0.26
KNR	SZ	41	EP	3		04:50	45.15		
KNR	SZ	41	ES	3		04:50	49.65		
KAR	SZ	34	EP	3		04:50	44.03		
KAR	SZ	34	ES	3		04:50	47.88		

March 18 1993 Time: 02:31 43.5 UTC Magnitude: 1.5 ML
Lat: 51.617N Lon: 3.286W Depth: 10.0 km
Grid Ref: 310.98 kmE 191.76 kmN RMS: 0.16 secs
Locality: SENGHENYDD, M GLAMORGAN Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SN	90				02:32	12.37	11	0.24
SSP	SE	90	ES	2		02:32	09.35		
SSP	SE	90				02:32	10.29	14	0.17
MCH	SN	47				02:31	57.65	32	0.06
MCH	SE	47	ES	1		02:31	57.48		
MCH	SE	47				02:31	57.57	74	0.19
MCH	SZ	47	IP		C	02:31	51.56		
HAE	SZ	69	EP	2		02:31	54.81		
HCG	SZ	83	EP	3		02:31	57.02		
HGH	SZ	33	IP		C	02:31	49.47		
HTR	SZ	51	IP	1	D	02:31	52.45		
HTL	SN	109				02:32	15.54	5	0.16
HTL	SE	109	ES	3		02:32	14.05		
HTL	SE	109				02:32	15.54	9	0.22
HTL	SZ	109	EP	1	C	02:32	01.70		
HSA	SZ	62	IP	1	C	02:31	54.28		
HSA	SZ	62	ES	2		02:32	01.62		
HPE	SZ	109	EP	2		02:32	01.65		
HPE	SZ	109	ES	2		02:32	14.25		
HEX	SZ	71	IP	1	C	02:31	55.70		
HEX	SZ	71	ES	2		02:32	03.80		

March 18 1993 Time: 21:33 40.9 UTC Magnitude: 1.4 ML
Lat: 53.025N Lon: 2.204W Depth: 6.1 km
Grid Ref: 386.35 kmE 347.56 kmN RMS: 0.03 secs
Locality: STOKE-ON-TRENT, STAFFS Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SN	68	ES	2		21:34	00.89		
CWF	SN	68				21:34	01.24	12	0.17
CWF	SE	68				21:34	01.24	9	0.15
KWE	SZ	24	EP	2		21:33	45.25		
KBI	SZ	52	EP	2		21:33	49.84		
MCH	SN	126	ES	2		21:34	16.87		
MCH	SN	126				21:34	18.46	10	0.27
MCH	SE	126				21:34	20.30	5	0.21
SBD	SZ	72	EP	2		21:33	53.18		
HTR	SZ	128	ES	3		21:34	17.01		
HLM	SZ	73	ES	3		21:34	02.22		
HLM	SZ	73				21:34	02.09		

March 21 1993 Time: 19:29 35.1 UTC Magnitude: 1.0 ML
Lat: 51.061N Lon: 2.841W Depth: 14.3 km
Grid Ref: 341.10 kmE 129.51 kmN RMS: 0.19 secs
Locality: SOMERTON, SOMERSET Quality: B
Comments: 7KM WEST OF SOMERTON

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
HP07	SZ	7	IP			19:29	37.70		
HP07	SZ	7	ES			19:29	39.90		
HP09	SZ	17	IP			19:29	38.70		
HP09	SZ	17	ES	2		19:29	41.70		
HP03	SZ	26	IP			19:29	40.39		
HP02	SZ	28	IP	1		19:29	40.51		
HP02	SZ	28	ES			19:29	44.13		
HP10	SZ	32	EP	2		19:29	41.00		
HP10	SZ	32	ES	2		19:29	45.44		
HP06	SZ	34	IP			19:29	41.03		
HP06	SZ	34	ES	2		19:29	45.80		
HEX	SZ	67	EP	2		19:29	46.05		
HEX	SZ	67	ES	2		19:29	53.07		
DYA	SZ	104	EP	2		19:29	52.21		
DYA	SN	104	ES	3		19:30	04.29		
DYA	SN	104				19:30	06.00	3	0.10
DYA	SE	104				19:30	06.00	4	0.08
HTL	SZ	116	EP	2		19:29	54.09		
HTL	SE	116	ES	2		19:30	08.16		

March 24 1993 Time: 10:02 20.8 UTC Magnitude: 0.4 ML
Lat: 49.215N Lon: 2.172W Depth: 5.5 km
Grid Ref: 387.46 kmE -76.09 kmN RMS: 0.08 secs
Locality: ST BRELADE, JERSEY Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
JRS	SN	6	ES	3		10:02	23.75		
JRS	SN	6				10:02	24.68	28	0.33
JRS	SE	6				10:02	24.61	38	0.42
JLP	SZ	6	EP	2		10:02	22.43		
JSA	SZ	3	EP	2		10:02	22.22		
JSA	SZ	3	ES	3		10:02	22.94		
JVM	SZ	3	EP	2	C	10:02	21.99		
JRS	SZ	6	EP	2		10:02	22.37		

March 24 1993 Time: 11:47 52.2 UTC Magnitude: 1.5 ML
Lat: 52.620N Lon: 1.006W Depth: 7.7 km
Grid Ref: 467.30 kmE 302.94 kmN RMS: 0.17 secs
Locality: KEYHAM, LEICESTERSHIRE Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SZ	153	IP	1	D	11:48	16.54		
MCH	SN	153	ES	2		11:48	33.83		
MCH	SN	153				11:48	34.21	9	0.06
MCH	SE	153				11:48	34.91	9	0.12
HAE	SZ	124	EP	1		11:48	12.00		
HGH	SZ	165	EP	2		11:48	18.66		
HTR	SZ	166	EP	2		11:48	18.48		
HLM	SZ	128	EP	2		11:48	12.47		
CWF	SZ	24	EP	2		11:47	56.75		
CWF	SN	24	ES	2		11:48	00.14		
CWF	SN	24				11:48	00.77	62	0.10

March 25 1993 Time: 02:58 24.9 UTC Magnitude: -0.2 ML
Lat: 50.111N Lon: 5.180W Depth: 7.0 km
Grid Ref: 172.66 kmE 28.31 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	02:58	26.59		
CR2	SN	6	ES			02:58	27.84		
CR2	SN	6				02:58	27.89	6	0.02
CR2	SE	6			C	02:58	27.89	12	0.06
CGH	SZ	7	ES			02:58	27.92		
CCO	SZ	3	IP		D	02:58	26.28		
CCO	SZ	3	ES			02:58	27.31		
CCA	SZ	9	IP		D	02:58	26.92		
CCA	SZ	9	ES			02:58	28.39		
CST	SZ	10	IP		C	02:58	26.99		
CST	SZ	10	ES			02:58	28.51		
CBW	SZ	6	IP		C	02:58	26.57		
CBW	SZ	6	ES			02:58	27.81		
CME	SN	7	ES			02:58	28.03		
CGW	SZ	3	IP		D	02:58	26.27		
CTR	SZ	6	EP			02:58	26.59		
CTR	SZ	6	ES			02:58	27.87		
CRA	SZ	6	EP		D	02:58	26.57		
CRA	SZ	6	ES			02:58	27.86		

March 25 1993 Time: 02:58 36.8 UTC Magnitude: -0.3 ML
Lat: 50.111N Lon: 5.178W Depth: 7.1 km
Grid Ref: 172.79 kmE 28.34 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP			02:58	38.52		
CR2	SN	6	ES			02:58	39.76		
CR2	SN	6				02:58	27.89	6	0.02
CR2	SE	6				02:58	39.83	9	0.08
CGH	SZ	7	ES			02:58	39.87		
CCO	SZ	3	EP		D	02:58	38.20		
CCO	SZ	3	ES			02:58	39.27		
CCA	SZ	9	IP		D	02:58	38.85		
CST	SZ	9	IP		C	02:58	38.91		
CST	SZ	9	ES			02:58	40.44		
CBW	SZ	6	IP		C	02:58	38.49		
CBW	SZ	6	ES			02:58	39.73		
CME	SN	7	ES			02:58	39.97		
CGW	SZ	3	IP		D	02:58	38.20		
CTR	SZ	6	EP			02:58	38.53		
CRA	SZ	6	EP			02:58	38.52		

March 25 1993 Time: 14:08 7.2 UTC Magnitude: 1.4 ML
Lat: 53.258N Lon: 1.842W Depth: 0.0 km
Grid Ref: 410.52 kmE 373.49 kmN RMS: 0.08 secs
Locality: BUXTON, DERBYSHIRE Quality: B
Comments: COLLAPSE TYPE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KBI	SZ	21	EP	2		14:08	11.64		
WCB	SE	181	ES	3		14:08	57.79		
WCB	SE	181				14:08	58.98	2	0.24
WME	SZ	165	ES	3		14:08	53.44		
LHO	SZ	32	EP	2		14:08	13.50		
KWE	SZ	27	EP	1	C	14:08	12.59		
KWE	SZ	27	ES	3		14:08	16.79		
KWE	SZ	27				14:08	19.46	212	0.49

March 26 1993 Time: 01:50 9.1 UTC Magnitude: 1.7 ML
Lat: 54.871N Lon: 1.368W Depth: 0.0 km
Grid Ref: 440.52 kmE 553.16 kmN RMS: 0.28 secs
Locality: SUNDERLAND, TYNE & WEAR Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
XDE	SZ	143	EP	2		01:50	33.21		
XDE	SZ	143	ES	3		01:50	49.90		
CKE	SZ	116	EP	2		01:50	29.39		
CKE	SZ	116	ES	3		01:50	43.98		
CSF	SZ	130	EP	2		01:50	31.40		
CSF	SZ	130	ES	3		01:50	47.16		
CDU	SZ	132	EP	2		01:50	31.24		
CDU	SZ	132	ES	3		01:50	47.87		
LMI	SZ	145	EP	2		01:50	33.59		
LMI	SN	145				01:50	57.38	21	0.52
LMI	SE	145	ES	3		01:50	51.24		
LMI	SE	145				01:50	53.23	9	0.34
LCP	SZ	17	EP	2		01:50	12.66		
LWH	SZ	75	EP	3		01:50	22.49		
GCD	SZ	165	EP	2		01:50	36.08		
GCD	SZ	165	ES	3		01:50	55.43		
ESK	SN	127	ES	3		01:50	45.52		
ESK	SN	127				01:50	47.67	6	0.31
ESK	SE	127				01:50	46.39	5	0.24
ESK	SZ	127	EP	3		01:50	29.89		
ECK	SZ	118	ES	3		01:50	43.59		
BHH	SZ	121	EP	3		01:50	29.42		
BHH	SN	121	ES	3		01:50	44.79		
BNA	SZ	145	EP	3		01:50	32.81		
BNA	SZ	145	ES	3		01:50	51.28		
BBO	SZ	122	EP	3		01:50	29.23		
BBO	SN	122	ES	3		01:50	44.62		
BBO	SN	122				01:50	48.07	18	0.28
BBO	SE	122				01:50	47.53	26	0.24
BTA	SZ	85	EP	3		01:50	23.69		
BTA	SN	85				01:50	38.34	38	0.29
BTA	SE	85	ES	3		01:50	35.10		
BTA	SE	85				01:50	39.33	38	0.24
BWH	SZ	150	EP	3		01:50	33.74		
BWH	SZ	150	ES	3		01:50	52.85		
BBH	SZ	104	EP	2		01:50	26.13		
BDL	SZ	101	EP	3		01:50	26.53		

March 26 1993 Time: 03:37 4.4 UTC Magnitude: 0.4 ML
Lat: 57.119N Lon: 5.544W Depth: 16.0 km
Grid Ref: 185.49 kmE 808.63 kmN RMS: 0.11 secs
Locality: KNOYDART, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	25	ES	2		03:37	13.18		
KPL	SN	25				03:37	13.40	11	0.26
KPL	SE	25				03:37	13.31	10	0.14
KNR	SZ	48	EP	2		03:37	13.01		
KNR	SZ	48	ES	2		03:37	18.89		
KAR	SZ	28	EP	3		03:37	09.97		
KSB	SZ	13	IP	1	D	03:37	08.09		
KSB	SZ	13	EP			03:37	08.07		
KSB	SZ	13	ES	3		03:37	10.76		
KPL	SZ	25	IP	1	C	03:37	09.60		
KAC	SZ	45	IP	1	D	03:37	12.43		
KAC	SZ	45	ES	3		03:37	17.80		

March 26 1993 Time: 04:01 24.7 UTC Magnitude: 0.9 ML
Lat: 54.911N Lon: 1.402W Depth: 0.0 km
Grid Ref: 438.35 kmE 557.50 kmN RMS: 0.21 secs
Locality: SUNDERLAND, TYNE & WEAR Quality: D
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BBO	SE	120	ES	3		04:01	59.88		
BTA	SZ	82	EP	3		04:01	38.84		
BTA	SZ	82	ES	3		04:01	50.05		
XSO	SZ	84	EP	3		04:01	39.58		
XSO	SZ	84	ES	3		04:01	50.29		
ESK	SN	124				04:02	02.41	3	0.47
ESK	SE	124	ES	3		04:02	00.42		
ESK	SE	124				04:02	00.74	2	0.29
BHH	SZ	118	EP	3		04:01	44.73		
BHH	SN	118	ES	3		04:01	59.24		

March 26 1993 Time: 06:38 20.6 UTC Magnitude: 1.0 ML
Lat: 56.130N Lon: 3.722W Depth: 0.6 km
Grid Ref: 292.97 kmE 694.38 kmN RMS: 0.12 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SZ	41	EPG	2	D	06:38	28.26		
EDI	SN	41	ESG	3		06:38	33.32		
EDI	SN	41				06:38	37.37	13	0.46
EDI	SE	41				06:38	34.93	25	0.57
EBL	SZ	58	EPG	3		06:38	30.97		
EAB	SZ	39	EPG	3		06:38	28.00		
EAB	SZ	39	ESG	3		06:38	33.17		
EBH	SZ	19	EPG	2		06:38	24.56		
EBH	SZ	19	ESG	3		06:38	27.60		
ELO	SZ	38	EPG	2	C	06:38	27.94		
PCO	SZ	28	EP	3	C	06:38	26.30		
PCO	SZ	28	ES	3		06:38	30.43		

March 31 1993 Time: 06:44 32.4 UTC Magnitude: 0.2 ML
Lat: 52.117N Lon: 2.951W Depth: 17.8 km
Grid Ref: 334.88 kmE 246.97 kmN RMS: 0.04 secs
Locality: STAUNTON-O-WYE, HER&WOR Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	14				06:44	38.94	30	0.13
MCH	SE	14	ES	1		06:44	38.88		
MCH	SE	14				06:44	38.90	9	0.09
MCH	SZ	14	EP	1		06:44	36.09		
HAE	SZ	29	EP	1	D	06:44	38.06		
HAE	SZ	29	ES	3		06:44	41.66		
HGH	SZ	54	EP	2		06:44	41.77		
HTR	SZ	22	EP	2		06:44	37.10		
HCG	SZ	53	EP	3		06:44	41.69		

April 4 1993 Time: 08:13 57.3 UTC Magnitude: 0.7 ML
Lat: 57.031N Lon: 5.791W Depth: 2.7 km
Grid Ref: 169.99 kmE 799.69 kmN RMS: 0.08 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	35	ES	3		08:14	08.26		
KPL	SN	35				08:14	08.82	14	0.84
KPL	SE	35				08:14	08.55	11	0.44
KAR	SZ	13	IP	1	D	08:13	59.94		
KAC	SZ	60	EP	2		08:14	07.80		
KPL	SZ	35	EP	2	D	08:14	03.85		
KSB	SZ	30	IP	1	D	08:14	02.92		
KSB	SZ	30	ES	2		08:14	06.61		

April 5 1993 Time: 12:39 46.3 UTC Magnitude: 0.8 ML
Lat: 50.111N Lon: 5.180W Depth: 6.9 km
Grid Ref: 172.69 kmE 28.37 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	12:39	47.93		
CR2	SN	6	ES			12:39	49.18		
CR2	SN	6				12:39	49.22	48	0.01
CR2	SE	6				12:39	49.24	125	0.07
CGH	SZ	7	EP			12:39	47.96		
CGH	SZ	7	ES			12:39	49.26		
CCO	SZ	3	ES			12:39	48.65		
CCA	SZ	9	IP		D	12:39	48.27		
CCA	SZ	9	ES			12:39	49.75		
CST	SZ	9	ES			12:39	49.86		
CBW	SZ	6	IP		C	12:39	47.90		
CBW	SZ	6	ES			12:39	49.15		
CME	SZ	7	EP		D	12:39	48.10		
CME	SN	7	ES			12:39	49.35		
CGW	SZ	3	IP		D	12:39	47.61		

April 5 1993 Time: 12:39 48.3 UTC Magnitude: 0.7 ML
Lat: 50.111N Lon: 5.179W Depth: 5.9 km
Grid Ref: 172.71 kmE 28.35 kmN RMS: 0.05 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CGH	SZ	7	EP			12:39	49.90		
CGH	SZ	7	ES			12:39	51.02		
CCA	SZ	9	ES			12:39	51.55		
CST	SZ	9	ES	2		12:39	51.66		
CBW	SZ	6	IP		C	12:39	49.70		
CBW	SZ	6	ES			12:39	50.91		
CME	SN	7	ES			12:39	51.18		
CGW	SZ	3	EP	2	C	12:39	49.49		
CGW	SZ	3	ES			12:39	50.33		
CR2	SN	6	ES			12:39	50.98		
CR2	SN	6				12:39	51.19	39	0.06
CR2	SE	6				12:39	51.03	129	0.07
CCO	SZ	3	EP	2		12:39	49.41		
CCO	SZ	3	ES	2		12:39	50.45		

April 6 1993 Time: 06:41 6.2 UTC Magnitude: 3.5 ML
Lat: 58.668N Lon: 1.008E Depth: 25.8 km
Grid Ref: 574.42 kmE 979.48 kmN RMS: 0.24 secs
Locality: NORTHERN NORTH SEA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDR	SZ	287	EP	2	C	06:41	45.10		
EDR	SZ	287	ES	3		06:42	13.51		
ELO	SZ	374	EP	2	C	06:41	55.67		
ELO	SZ	374	ES	3		06:42	32.37		
EDU	SZ	337	EP	2		06:41	51.23		
EDU	SZ	337	ES	3		06:42	23.88		
EBH	SZ	382	EP	2	C	06:41	56.88		
EAB	SZ	424	EP	3		06:42	01.91		
ESY	SZ	376	EP	2	C	06:41	56.11		
EAU	SZ	414	EP	2		06:42	01.58		
EDI	SE	397				06:42	39.37	80	0.57
EDI	SN	397	ES	2		06:42	37.16		
EDI	SN	397				06:42	39.61	70	0.38
EDI	SZ	397	EP	3		06:41	58.75		
FOO	SZ	396	EP	2		06:41	57.77		
FOO	SN	396	ES	2		06:42	36.77		
FOO	SN	396				06:42	38.36		
EBL	SZ	405	EP	3		06:41	59.90		
MCD	SE	279	ES	2		06:42	11.37		
MCD	SZ	279	EP	1	C	06:41	43.44		
MDO	SZ	345	EP	1		06:41	51.75		
MDO	SZ	345	ES	3		06:42	25.39		
MME	SZ	279	EP	1		06:41	43.82		
MME	SZ	279	ES	2		06:42	12.08		
MVH	SZ	315	EP	2		06:41	47.61		
MVH	SZ	315	ES	2		06:42	18.70		
MFI	SZ	228	EP	1		06:41	37.64		
MFI	SZ	228	ES	3		06:42	01.01		
LRW	SN	205				06:42	02.66	171	0.30
LRW	SE	205	ES	2		06:41	55.79		
LRW	SE	205				06:42	01.87	181	0.18
LRW	SZ	205	EP	2		06:41	34.91		
SAN	SZ	197	IP		D	06:41	33.80		
SAN	SZ	197	ES	2		06:41	53.86		
WAL	SZ	231	EP	1		06:41	38.07		
WAL	SZ	231	ES	2		06:42	01.35		
YEL	SZ	241	IP		C	06:41	39.54		
YEL	SZ	241	ES	2		06:42	03.23		
EBL	SZ	405	ES	3		06:42	39.33		

April 6 1993 Time: 08:21 8.9 UTC Magnitude: 1.6 ML
Lat: 56.132N Lon: 3.682W Depth: 0.1 km
Grid Ref: 295.45 kmE 694.48 kmN RMS: 0.09 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F,FELT FOREST MILL Intensity: 3+

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ELO	SZ	38	EPG	2		08:21	16.21		
ELO	SZ	38	ESG	3		08:21	21.61		
EBH	SZ	17	EPG	2	C	08:21	12.55		
EBH	SZ	17	ESG	3		08:21	15.55		
EAB	SZ	41	EPG	2	D	08:21	16.69		
EAB	SZ	41	ESG	3		08:21	22.34		
EBL	SZ	56	EPG	3		08:21	19.10		
EDI	SE	39	ESG	3		08:21	20.59		
EDI	SE	39				08:21	23.97	76	0.54
EDI	SN	39				08:21	26.14	104	0.73
EDI	SZ	39	EPG	2		08:21	16.29		
PGB	SZ	61	EP	2		08:21	19.95		
PGB	SN	61	ES	3		08:21	28.00		
PGB	SN	61				08:21	28.29	28	0.20
PGB	SE	61				08:21	37.10	29	0.98
PMS	SZ	74	EP	3		08:21	22.29		
PCO	SZ	30	EP	2	D	08:21	14.96		

April 7 1993 Time: 11:08 16.5 UTC Magnitude: 0.0 ML
Lat: 50.111N Lon: 5.180W Depth: 7.4 km
Grid Ref: 172.69 kmE 28.35 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SN	6				11:08	19.57	7	0.08
CR2	SE	6	ES			11:08	19.51		

CR2	SE	6				11:08	19.55	28	0.08
CGH	SZ	7	ES	2		11:08	19.58		
CCO	SZ	3	ES			11:08	18.98		
CCA	SZ	9	ES			11:08	20.08		
CST	SZ	9	ES			11:08	20.19		
CBW	SZ	6	IP		C	11:08	18.23		
CBW	SZ	6	ES			11:08	19.45		

April 7 1993 Time: 19:56 55.5 UTC Magnitude: 0.1 ML
Lat: 50.110N Lon: 5.181W Depth: 6.8 km
Grid Ref: 172.55 kmE 28.26 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP			19:56	57.13		
CR2	SN	6	ES			19:56	58.38		
CR2	SN	6				19:56	58.44	15	0.02
CR2	SE	6				19:56	58.43	15	0.08
CGH	SZ	7	IP		D	19:56	57.11		
CGH	SZ	7	ES			19:56	58.43		
CCO	SZ	3	EP			19:56	56.82		
CCA	SZ	9	IP		D	19:56	57.45		
CCA	SZ	9	ES			19:56	58.94		
CST	SZ	10	IP		C	19:56	57.53		
CST	SZ	10	ES			19:56	59.05		
CBW	SZ	6	IP		C	19:56	57.10		
CBW	SZ	6	ES			19:56	58.32		
CME	SZ	7	EP			19:56	57.26		
CME	SN	7	ES			19:56	58.58		
CTR	SZ	6	IP		C	19:56	57.12		

April 7 1993 Time: 21:34 34.1 UTC Magnitude: 0.2 ML
Lat: 50.109N Lon: 5.181W Depth: 7.1 km
Grid Ref: 172.60 kmE 28.11 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		D	21:34	35.83		
CR2	SN	7	ES			21:34	37.08		
CR2	SN	7				21:34	37.12	29	0.04
CR2	SE	7				21:34	37.16	18	0.04
CGH	SZ	7	IP		D	21:34	35.80		
CCO	SZ	3	IP		D	21:34	35.52		
CCO	SZ	3	ES			21:34	36.57		
CCA	SZ	9	IP		D	21:34	36.17		
CCA	SZ	9	ES			21:34	37.63		
CST	SZ	10	IP		D	21:34	36.24		
CST	SZ	10	ES			21:34	37.82		
CBW	SZ	7	IP		C	21:34	35.80		
CME	SZ	8	IP		D	21:34	35.94		
CME	SN	8	ES			21:34	37.28		
CGW	SZ	3	IP		C	21:34	35.48		
CTR	SZ	7	ES			21:34	37.09		
CRA	SZ	6	IP		D	21:34	35.81		

April 8 1993 Time: 01:24 28.0 UTC Magnitude: -0.1 ML
Lat: 50.109N Lon: 5.180W Depth: 7.1 km
Grid Ref: 172.67 kmE 28.16 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		D	01:24	29.74		
CR2	SN	6	ES			01:24	31.00		
CR2	SN	6				01:24	31.04	12	0.04
CR2	SE	6				01:24	31.07	8	0.04
CGH	SZ	7	IP		D	01:24	29.72		
CCO	SZ	3	ES			01:24	30.48		
CCA	SZ	9	IP		D	01:24	30.08		
CCA	SZ	9	ES			01:24	31.55		
CST	SZ	10	IP		D	01:24	30.14		
CST	SZ	10	ES			01:24	31.71		
CBW	SZ	6	IP		C	01:24	29.71		
CME	SN	8	ES			01:24	31.19		
CGW	SZ	3	IP		C	01:24	29.41		
CTR	SZ	7	ES			01:24	31.00		
CRA	SZ	6	IP		D	01:24	29.73		

April 8 1993 Time: 03:58 21.4 UTC Magnitude: 1.1 ML
Lat: 53.342N Lon: 1.711W Depth: 14.6 km
Grid Ref: 419.24 kmE 382.84 kmN RMS: 0.08 secs
Locality: BRADWELL, DERBYSHIRE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
HPK	SN	69	ES	3		03:58	41.34		
HPK	SN	69				03:58	41.91	17	0.12
HPK	SE	69				03:58	41.75	16	0.23
LHO	SZ	25	EP			03:58	26.40		
LHO	SZ	25	ES	3		03:58	29.88		
KWE	SZ	37	EP	2		03:58	28.27		
KWE	SZ	37	ES	3		03:58	32.91		
KWE	SZ	37				03:58	33.16	3	0.11
KBI	SZ	16	EP	2		03:58	25.18		

April 9 1993 Time: 16:14 3.9 UTC Magnitude: 0.4 ML
Lat: 50.108N Lon: 5.181W Depth: 6.6 km
Grid Ref: 172.54 kmE 28.02 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		D	16:14	05.52		
CR2	SN	7	ES			16:14	06.77		
CR2	SN	7				16:14	06.81	38	0.04
CR2	SE	7				16:14	06.85	27	0.05
CGH	SZ	7	EP			16:14	05.49		
CCO	SZ	3	ES			16:14	06.26		
CCA	SZ	9	IP		D	16:14	05.86		
CCA	SZ	9	ES			16:14	07.33		
CST	SZ	10	EP			16:14	05.94		
CST	SZ	10	ES			16:14	07.52		
CBW	SZ	7	IP		C	16:14	05.49		
CBW	SZ	7	ES			16:14	06.74		
CME	SZ	8	IP		D	16:14	05.64		
CME	SZ	8	ES			16:14	06.97		
CGW	SZ	3	ES			16:14	06.11		
CRA	SZ	6	EP			16:14	05.50		

April 9 1993 Time: 16:35 11.5 UTC Magnitude: 0.5 ML
Lat: 56.125N Lon: 3.677W Depth: 1.4 km
Grid Ref: 295.80 kmE 693.77 kmN RMS: 0.05 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PCO	SZ	30	IPG	1	D	16:35	17.38		
EDI	SZ	38	EP	3		16:35	18.57		
EDI	SN	38				16:35	30.10	6	0.72
EDI	SE	38				16:35	29.91	7	0.66
EAU	SZ	34	EP	3		16:35	18.02		
EAB	SZ	42	ES	3		16:35	24.93		
EBH	SZ	17	EP	2		16:35	15.08		
EBH	SZ	17	ES	3		16:35	17.85		

April 9 1993 Time: 17:57 20.7 UTC Magnitude: 0.6 ML
Lat: 50.110N Lon: 5.181W Depth: 7.2 km
Grid Ref: 172.55 kmE 28.19 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		D	17:57	22.40		
CR2	SN	6	ES			17:57	23.64		
CR2	SN	6				17:57	23.69	51	0.05
CR2	SE	6				17:57	23.72	46	0.05
CGH	SZ	7	IP		D	17:57	22.38		
CCO	SZ	3	EP			17:57	22.09		
CCA	SZ	9	IP		D	17:57	22.72		
CCA	SZ	9	ES			17:57	24.20		
CST	SZ	10	IP		D	17:57	22.80		
CST	SZ	10	ES			17:57	24.37		
CBW	SZ	7	IP		C	17:57	22.36		
CBW	SZ	7	ES			17:57	23.67		
CME	SZ	7	IP		D	17:57	22.51		
CME	SZ	7	ES			17:57	23.84		
CGW	SZ	3	IP		C	17:57	22.06		
CTR	SZ	7	EP		D	17:57	22.40		
CRA	SZ	6	EP		D	17:57	22.36		
CMA	SZ	6	EP	4	D	17:57	22.36		

April 9 1993 Time: 19:05 44.2 UTC Magnitude: -0.1 ML
Lat: 50.110N Lon: 5.179W Depth: 6.8 km
Grid Ref: 172.71 kmE 28.24 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	19:05	45.79		
CR2	SN	6	ES			19:05	47.04		
CR2	SN	6				19:05	47.10	10	0.02
CR2	SE	6				19:05	47.09	11	0.08
CGH	SZ	7	EP			19:05	45.78		
CGH	SZ	7	ES			19:05	47.08		
CCO	SZ	3	EP			19:05	45.49		
CCA	SZ	9	EP			19:05	46.13		
CST	SZ	10	IP		C	19:05	46.18		
CST	SZ	10	ES			19:05	47.71		
CBW	SZ	6	EP			19:05	45.78		
CBW	SZ	6	ES			19:05	46.98		
CME	SN	7	ES			19:05	47.24		
CGW	SZ	3	IP		C	19:05	45.45		

April 15 1993 Time: 13:15 48.3 UTC Magnitude: 0.2 ML
Lat: 50.111N Lon: 5.181W Depth: 7.2 km
Grid Ref: 172.63 kmE 28.33 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	13:15	49.98		
CR2	SN	6	ES			13:15	51.22		
CR2	SN	6				13:15	51.41	13	0.04
CR2	SE	6				13:15	51.28	32	0.06
CGH	SZ	7	EP		C	13:15	49.97		

CGH	SZ	7	ES			13:15	51.31		
CCO	SZ	3	EP		D	13:15	49.66		
CCO	SZ	3	ES			13:15	50.71		
CCA	SZ	9	IP		D	13:15	50.30		
CCA	SZ	9	ES			13:15	51.78		
CBW	SZ	6	IP		C	13:15	49.95		
CBW	SZ	6	ES			13:15	51.20		
CGW	SZ	3	IP		D	13:15	49.64		

April 15 1993 Time: 21:30 3.4 UTC Magnitude: 2.3 ML
Lat: 52.554N Lon: 0.748W Depth: 4.7 km
Grid Ref: 484.90 kmE 295.87 kmN RMS: 0.40 secs
Locality: GREAT EASTON, LEICS Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
APA	SZ	154	EP	2		21:30	28.02		
APA	SZ	154	ES	3		21:30	45.85		
APA	SZ	154				21:30	48.72	49	0.15
AWH	SZ	115	EP	2		21:30	22.19		
AWH	SZ	115	ES			21:30	35.53		
ABA	SZ	133	EP	2		21:30	25.60		
MCH	SN	166				21:30	49.57	40	0.20
MCH	SE	166	ES	4		21:30	47.90		
MCH	SE	166				21:30	49.79	40	0.24
MCH	SZ	166	IP	1	D	21:30	29.51		
SSP	SZ	161	EP	1	C	21:30	29.11		
SSP	SN	161				21:30	48.18	42	0.23
SSP	SE	161	ES	2		21:30	47.33		
SSP	SE	161				21:30	49.01	38	0.23
HAE	SZ	136	IP		C	21:30	24.82		
HCG	SZ	200	EP	1		21:30	34.14		
HGH	SZ	174	EP	2		21:30	30.52		
HLM	SZ	145	EP	2		21:30	26.43		
HTR	SZ	180	EP	1		21:30	31.44		
SBD	SZ	174	EP	1		21:30	31.44		
CWF	SZ	43	IP		D	21:30	10.81		
CWF	SN	43	ES	2		21:30	16.09		
CWF	SN	43				21:30	16.62	150	0.16
CWF	SE	43				21:30	16.58	118	0.09
KSY	SZ	47	EP	1		21:30	12.03		
KWE	SZ	90	EP	2		21:30	18.39		
KBI	SZ	94	EP	1	C	21:30	19.47		
KUF	SZ	25	IP		C	21:30	07.89		
KEY	SZ	42	IP	1	D	21:30	11.27		
TSA	SZ	159	EP	2		21:30	29.50		
TBW	SZ	123	EP	1	D	21:30	23.42		

April 17 1993 Time: 07:55 20.5 UTC Magnitude: 0.8 ML
Lat: 56.124N Lon: 3.716W Depth: 1.4 km
Grid Ref: 293.33 kmE 693.63 kmN RMS: 0.08 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EBH	SZ	19	IPG	1	D	07:55	24.31		
EBH	SZ	19	ESG	3		07:55	27.36		
EDU	SZ	64	ESG	3		07:55	40.05		
ELO	SZ	39	IPG	1	C	07:55	27.70		
EDI	SZ	40	EPG	2	D	07:55	28.03		
EDI	SN	40	ESG	3		07:55	33.09		
EDI	SN	40				07:55	39.50	19	1.08
EDI	SE	40				07:55	44.24	25	1.17
EAU	SZ	35	EPG	3		07:55	27.18		
EBL	SZ	57	EPG	2	D	07:55	30.71		
EAB	SZ	39	IPG	1	C	07:55	27.75		
PCO	SZ	28	EP	2		07:55	26.00		
PCO	SZ	28	ES	3		07:55	29.94		

April 19 1993 Time: 00:17 4.2 UTC Magnitude: -0.1 ML
Lat: 55.949N Lon: 3.042W Depth: 1.9 km
Grid Ref: 334.97 kmE 673.39 kmN RMS: 0.06 secs
Locality: MUSSELBURGH, LOTHIAN Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SZ	10	EP	1	D	00:17	06.51		
EDI	SN	10	ES	3		00:17	07.98		
EDI	SN	10				00:17	08.22	9	0.23
EDI	SE	10				00:17	08.08	9	0.14
EAU	SZ	28	EP	3		00:17	09.46		
EBL	SZ	20	EPG	3		00:17	08.04		
EBL	SZ	20	ESG	3		00:17	11.06		
ESY	SZ	27	EPG	3		00:17	09.40		

April 21 1993 Time: 01:37 32.2 UTC Magnitude: 1.3 ML
Lat: 56.125N Lon: 3.720W Depth: 1.0 km
Grid Ref: 293.09 kmE 693.82 kmN RMS: 0.09 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SZ	180	EP	4		01:38	02.77		
KPL	SN	180	ES	4		01:38	23.04		
KPL	SN	180				01:38	26.15	4	0.48
KPL	SE	180				01:38	25.30	6	0.37
PGB	SZ	59	EP	2		01:37	42.83		
PGB	SE	59	ES	3		01:37	50.58		
PCA	SZ	58	EP	2		01:37	42.71		
PCA	SZ	58	ES	3		01:37	50.37		
PMS	SZ	71	EP	2		01:37	44.93		
PCO	SZ	28	EP	2		01:37	37.80		
PCO	SZ	28	ES	3		01:37	41.80		
EDI	SZ	40	IPG	1	D	01:37	39.85		
EDI	SN	40	ES	2		01:37	45.03		
EDI	SN	40				01:37	48.47	44	1.18
EDI	SE	40				01:37	56.19	51	1.24
EAU	SZ	36	EPG	2	D	01:37	39.04		
EAU	SZ	36	ESG	3		01:37	43.96		
EBL	SZ	58	IPG	1	D	01:37	42.53		
ESY	SZ	73	EPG	3		01:37	45.25		
EAB	SZ	39	IPG	1	C	01:37	39.57		
EAB	SZ	39	ES	2		01:37	44.86		
EBH	SZ	19	IPG	1	D	01:37	36.15		
EBH	SZ	19	ESG	2		01:37	39.20		
EDU	SZ	64	EPG	2		01:37	43.74		
ELO	SZ	39	IPG	1	D	01:37	39.45		

April 22 1993 Time: 11:11 30.2 UTC Magnitude: 0.5 ML
Lat: 50.110N Lon: 5.181W Depth: 7.0 km
Grid Ref: 172.59 kmE 28.24 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP			11:11	31.85		
CR2	SN	6	ES			11:11	33.09		
CR2	SN	6				11:11	33.14	46	0.09
CR2	SE	6				11:11	33.14	48	0.09
CGH	SZ	7	ES			11:11	33.13		
CBW	SZ	6	EP			11:11	31.83		
CBW	SZ	6	ES			11:11	33.03		
CCO	SZ	3	ES			11:11	32.55		
CCA	SZ	9	EP			11:11	32.19		
CCA	SZ	9	ES			11:11	33.64		
CST	SZ	10	EP			11:11	32.23		
CST	SZ	10	ES			11:11	33.77		
CTR	SN	6	ES			11:11	33.11		
CME	SZ	7	EP		C	11:11	31.96		
CME	SN	7	ES			11:11	33.29		
CRA	SN	6	ES			11:11	33.07		

April 22 1993 Time: 22:22 49.6 UTC Magnitude: -0.2 ML
Lat: 55.946N Lon: 3.088W Depth: 0.5 km
Grid Ref: 332.04 kmE 673.08 kmN RMS: 0.24 secs
Locality: MUSSELBURGH, LOTHIAN Quality: D
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ESY	SZ	30	EPG	3		22:22	55.06		
ESY	SZ	30	ESG	3		22:23	00.13		
EDI	SZ	7	IPG	1	D	22:22	51.27		
EDI	SN	7	ESG	3		22:22	52.41		
EDI	SN	7				22:22	52.83	6	0.23
EDI	SE	7				22:22	52.85	10	0.14
EBL	SZ	19	EPG	3		22:22	52.77		
EBL	SZ	19	ESG	3		22:22	56.79		

April 24 1993 Time: 09:44 5.9 UTC Magnitude: 0.5 ML
Lat: 52.091N Lon: 3.380W Depth: 15.9 km
Grid Ref: 305.49 kmE 244.57 kmN RMS: 0.01 secs
Locality: BUILTH WELLS, POWYS Quality: C
Comments: 6KM SOUTH BUILTH WELLS

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	28	ES	1		09:44	15.33		
MCH	SN	28				09:44	15.38	18	0.10
MCH	SE	28				09:44	15.54	7	0.10
MCH	SZ	28	IP	1	D	09:44	11.37		
HCG	SZ	32	EP	3		09:44	11.94		
HTR	SZ	8	IP		D	09:44	08.92		
HTR	SZ	8	ES	3		09:44	11.03		

April 26 1993 Time: 19:43 44.9 UTC Magnitude: 1.4 ML
Lat: 57.614N Lon: 7.290W Depth: 0.5 km
Grid Ref: 84.21 kmE 870.58 kmN RMS: 0.17 secs
Locality: NORTH UIST, W ISLES Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	103				19:44	16.71	8	0.12
KPL	SE	103	ES	3		19:44	15.47		
KPL	SE	103				19:44	17.66	10	0.18
KNR	SZ	166	EP	3		19:44	11.72		
KAR	SZ	117	EP	2		19:44	04.76		
KAR	SZ	117	ES	3		19:44	19.32		
KSB	SZ	121	EP	2	C	19:44	05.06		
KSB	SZ	121	ES	3		19:44	19.80		
KAC	SZ	120	EP		C	19:44	05.15		
KAC	SZ	120	ES	3		19:44	19.90		
KSK	SZ	39	EP	2	D	19:43	52.43		
KSK	SZ	39	ES	3		19:43	57.57		
KPL	SZ	103	EP	2		19:44	02.13		

April 29 1993 Time: 18:01 40.3 UTC Magnitude: 1.7 ML
Lat: 57.300N Lon: 6.062W Depth: 2.9 km
Grid Ref: 155.32 kmE 830.59 kmN RMS: 0.09 secs
Locality: ISLE OF SKYE, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KAC	SZ	51	IP		C	18:01	49.32		
KSK	SZ	43	IP	1	C	18:01	48.09		
KSK	SZ	43	ES	3		18:01	53.54		
MDO	SZ	103	EP	2		18:01	57.87		
MVH	SZ	132	EP	3		18:02	02.02		
MVH	SZ	132	ES	3		18:02	18.13		
EAB	SZ	163	EP	3		18:02	06.21		
MCD	SZ	172	EP	3		18:02	08.05		
MCD	SN	172				18:02	29.39	11	0.84
MCD	SE	172	ES	3		18:02	28.19		
MCD	SE	172				18:02	30.90	9	0.20
ELO	SZ	171	EP	3		18:02	07.57		
KPL	SN	25	ES	2		18:01	48.43		
KPL	SN	25				18:01	48.55		
KPL	SE	25				18:01	52.12		
KNR	SZ	85	EP	2		18:01	54.94		
KNR	SZ	85	ES	3		18:02	05.31		
KNR	SZ	85				18:02	10.31		
KAR	SZ	45	IP		C	18:01	48.42		
KAR	SZ	45	ES	2		18:01	54.28		
KAR	SZ	45				18:01	54.53		
KSB	SZ	40	IP		C	18:01	47.66		
KSB	SZ	40	ES	3		18:01	52.53		
KSB	SZ	40				18:01	53.19		
KPL	SZ	25	IP		C	18:01	44.99		

May 1 1993 Time: 18:36 21.4 UTC Magnitude: 1.4 ML
Lat: 51.871N Lon: 4.530W Depth: 3.2 km
Grid Ref: 225.81 kmE 222.25 kmN RMS: 0.19 secs
Locality: MEIDRIM, DYFED Quality: C
Comments: 4KM NE OF MEIDRIM

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
HTL	SN	98	ES	2		18:36	49.53		
HTL	SN	98				18:36	50.61	10	0.17
HTL	SE	98				18:36	51.07	10	0.18
HTL	SZ	98	EP	3		18:36	38.20		
HSA	SZ	29	EP	3		18:36	27.03		
HPE	SZ	18	IP		D	18:36	24.82		
HPE	SZ	18	ES	2		18:36	27.08		
YLL	SZ	143	ES	2		18:37	02.16		
YRH	SZ	107	ES	2		18:36	51.76		
WFB	SZ	96	ES	2		18:36	49.33		
MCH	SN	106				18:36	52.14	6	0.12
MCH	SE	106	ES	2		18:36	51.91		
MCH	SE	106				18:36	52.01	12	0.18
MCH	SZ	106	EP	3		18:36	39.40		
SSP	SZ	115	EP	1		18:36	40.85		
SSP	SN	115	ES	2		18:36	54.87		
SSP	SN	115				18:36	57.98	6	0.09
SSP	SE	115				18:36	57.16	6	0.14
HAE	SZ	138	EP	3		18:36	44.40		
HAE	SZ	138	ES	3		18:37	00.44		
HCG	SZ	78	IP	1	C	18:36	34.61		
HCG	SZ	78	ES	2		18:36	44.00		
HGH	SZ	122	EP	1	D	18:36	41.79		
HLM	SZ	133	EP	1		18:36	43.73		
HLM	SZ	133	ES	3		18:36	59.38		
HTR	SZ	90	IP	1	D	18:36	36.79		
HTR	SZ	90	ES	2		18:36	47.75		

May 2 1993 Time: 19:08 25.8 UTC Magnitude: 2.3 ML
Lat: 58.923N Lon: 0.929E Depth: 15.0 km
Grid Ref: 568.63 kmE 1007.58 kmN RMS: 0.39 secs
Locality: NORTHERN NORTH SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
LRW	SN	180	ES	3		19:09	11.51		
LRW	SN	180				19:09	18.53	20	0.18
LRW	SE	180				19:09	21.18	19	0.19
LRW	SZ	180	EP	2		19:08	52.19		
SAN	SZ	173	EP	2	D	19:08	51.18		
SAN	SZ	173	ES	2		19:09	09.37		
YEL	SZ	214	EP	2		19:08	56.44		
YEL	SZ	214	ES	2		19:09	19.55		
MCD	SN	287	ES	3		19:09	34.47		
MCD	SN	287				19:09	36.52	9	0.14
MCD	SE	287				19:09	36.35	11	0.20
MME	SZ	291	EP			19:09	05.78		
MME	SZ	291	ES	2		19:09	35.81		
MVH	SZ	319	EP	2		19:09	08.84		
MVH	SZ	319	ES	3		19:09	41.32		
MLA	SZ	259	EP	2		19:09	02.49		
MLA	SZ	259	ES	3		19:09	28.55		
KPL	SN	426	ES	3		19:10	04.44		
KPL	SN	426				19:10	06.82	3	0.17
KPL	SE	426				19:10	06.56	3	0.18
KNR	SZ	421	ES	3		19:10	03.70		
KAC	SZ	399	ES	3		19:09	58.48		
KSB	SZ	420	ES	2		19:10	02.98		
BHH	SN	495	ES	3		19:10	19.84		

May 4 1993 Time: 14:20 25.9 UTC Magnitude: 2.4 ML
Lat: 52.290N Lon: 0.066W Depth: 0.2 km
Grid Ref: 531.91 kmE 267.55 kmN RMS: 0.25 secs
Locality: HUNTINGDON, CAMBS Quality: C
Comments: 9KM SE OF HUNTINGDON

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	98	EP	1		14:20	42.27		
CWF	SN	98	ES	3		14:20	54.97		
CWF	SN	98				14:20	59.51	44	0.15
CWF	SE	98				14:20	59.50	78	0.20
KWE	SZ	145	EP	2		14:20	49.96		
KWE	SZ	145	ES	3		14:21	07.30		
KBI	SZ	146	EP	2		14:20	50.44		
KBI	SZ	146	ES	2		14:21	08.04		
KUF	SZ	43	EP	2		14:20	33.60		
MCH	SN	204				14:21	23.02	26	0.17
MCH	SE	204	ES	2		14:21	21.35		
MCH	SE	204				14:21	23.82	22	0.17
MCH	SZ	204	EP	3		14:20	57.16		
HAE	SZ	172	EP	1	D	14:20	54.09		
HAE	SZ	172	ES	3		14:21	13.45		
HGH	SZ	202	EP	2		14:20	58.62		
HTR	SZ	220	EP	3		14:21	00.98		
HTR	SZ	220	ES	3		14:21	25.74		
HLM	SZ	194	EP	1		14:20	56.64		
HLM	SZ	194	ES	3		14:21	18.80		
APA	SZ	105	EP	2		14:20	43.82		
AWI	SZ	119	EP	2		14:20	46.04		
ABA	SZ	106	EP	2		14:20	43.97		
TFO	SN	155				14:21	12.08	49	0.33
TFO	SE	155	ES	3		14:21	09.66		
TFO	SE	155				14:21	12.41	72	0.17
TFO	SZ	155	EP	2		14:20	51.51		

May 5 1993 Time: 02:32 0.6 UTC Magnitude: 0.3 ML
Lat: 56.122N Lon: 3.718W Depth: 0.5 km
Grid Ref: 293.20 kmE 693.48 kmN RMS: 0.15 secs
Locality: CLACKMANNAN, CENTRAL Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SZ	40	EPG	2		02:32	08.34		
EDI	SN	40				02:32	17.13	8	0.96
EDI	SE	40	ESG	3		02:32	13.63		
EDI	SE	40				02:32	15.88	7	1.38
EAU	SZ	35	EPG	2		02:32	07.00		
EAU	SZ	35	ESG	3		02:32	12.64		
EAB	SZ	39	EPG	3		02:32	08.07		
EAB	SZ	39	ESG	3		02:32	13.55		
EBH	SZ	19	EPG	2	D	02:32	04.68		
EBH	SZ	19	ESG	2		02:32	07.71		
EDU	SZ	64	EPG	3		02:32	11.93		
EDU	SZ	64	ESG	3		02:32	20.94		
PCO	SZ	28	EP	3		02:32	06.29		

May 5 1993 Time: 04:28 8.8 UTC Magnitude: 1.4 ML
Lat: 49.158N Lon: 5.993W Depth: 6.6 km
Grid Ref: 108.91 kmE -74.81 kmN RMS: 0.09 secs
Locality: LAND'S END, CORNWALL Quality: D
Comments: SW OF LAND'S END

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	127	EP	3		04:28	29.36		
CR2	SN	127	ES	3		04:28	44.52		
CR2	SN	127				04:28	45.63	5	0.13
CR2	SE	127				04:28	46.76	7	0.07
CGH	SZ	116	ES	3		04:28	41.35		
CCA	SZ	127	EP	3		04:28	29.45		
CCA	SZ	127	ES	3		04:28	44.33		
CST	SZ	130	EP	2		04:28	29.68		
CST	SZ	130	ES	3		04:28	45.15		
CBW	SZ	127	EP	3		04:28	29.45		
CBW	SZ	127	ES	3		04:28	44.42		
CCO	SZ	123	EP	3		04:28	28.50		
CCO	SZ	123	ES	3		04:28	43.40		

May 5 1993 Time: 14:07 38.1 UTC Magnitude: 2.2 ML
Lat: 62.084N Lon: 2.269E Depth: 10.8 km
Grid Ref: 622.86 kmE 1363.31 kmN RMS: 0.42 secs
Locality: NORWEGIAN SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
YEL	SZ	248	EP	3		14:08	13.33		
YEL	SZ	248	ES	3		14:08	38.70		
SAN	SZ	298	EP	3		14:08	19.55		
SAN	SZ	298	ES	3		14:08	49.37		
LRW	SN	286				14:08	50.88	7	0.17
LRW	SE	286	ES	2		14:08	47.57		
LRW	SE	286				14:08	50.50	7	0.17
EGD	SZ	265	EP	3		14:08	14.50		

EGD	SZ	265	ES	3		14:08	41.40
ASK	SZ	238	EP	3		14:08	12.11
ASK	SZ	238	ES	3		14:08	36.90
MOL	SZ	279	EP	3		14:08	17.20
MOL	SZ	279	ES	3		14:08	45.66
KMY	SZ	359	EP	3		14:08	27.00
KMY	SZ	359	ES	3		14:09	02.98
SUE	SN	175	EP	3		14:08	04.79
SUE	SN	175	ES	3		14:08	24.04

May 6 1993 Time: 06:36 53.5 UTC Magnitude: 0.6 ML
Lat: 54.841N Lon: 3.847W Depth: 8.0 km
Grid Ref: 281.38 kmE 551.15 kmN RMS: 0.03 secs
Locality: AUCHENCAIRN, D & G Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BBO	SN	40	ES	2		06:37	05.78		
BBO	SN	40				06:37	05.83	4	0.16
BBO	SE	40				06:37	05.77	3	0.16
GCD	SZ	7	EP	2	D	06:36	55.50		
GCD	SZ	7	ES	2		06:36	56.85		
BHH	SZ	49	EP	2	C	06:37	02.07		
BHH	SN	49	ES	2		06:37	08.23		
BHH	SN	49				06:37	09.34	7	0.14
BHH	SE	49				06:37	10.56	6	0.18
BNA	SZ	20	IP		C	06:36	57.43		
BNA	SZ	20	ES	2		06:37	00.25		
BBO	SZ	40	EP	3		06:37	00.63		
BWH	SZ	39	ES	3		06:37	05.44		

May 6 1993 Time: 12:22 52.8 UTC Magnitude: 1.0 ML
Lat: 54.629N Lon: 2.322W Depth: 4.3 km
Grid Ref: 379.25 kmE 526.01 kmN RMS: 0.14 secs
Locality: MICKLE FELL, DURHAM Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
XSO	SZ	96	EP	3		12:23	09.40		
XSO	SZ	96	ES	2		12:23	20.50		
LRN	SZ	42	EP	3		12:23	00.21		
GIM	SZ	144	EP	3		12:23	16.09		
GIM	SN	144	ES	3		12:23	33.47		
GCD	SZ	108	EP	2		12:23	11.17		
GCD	SZ	108	ES	3		12:23	23.95		
XDE	SZ	77	EP	2		12:23	05.86		
CKE	SZ	51	EP	3		12:23	01.63		
CKE	SZ	51	ES	3		12:23	07.60		
CSF	SZ	63	IP	1	D	12:23	03.71		
CSF	SZ	63	ES	3		12:23	11.20		
CDU	SZ	65	EP	2	C	12:23	03.95		
CDU	SZ	65	ES	3		12:23	11.79		
LMI	SZ	79	EP	3		12:23	06.26		
LMI	SN	79	ES	3		12:23	15.73		
LMI	SN	79				12:23	16.89	5	0.16
LMI	SE	79				12:23	17.60	3	0.14
BHH	SZ	77	EP	3		12:23	06.33		
BHH	SN	77				12:23	18.47	16	0.15
BHH	SE	77	ES	3		12:23	15.23		
BHH	SE	77				12:23	17.93	11	0.20
BNA	SZ	92	EP	3	C	12:23	08.54		
BBO	SZ	61	EP	2		12:23	03.26		
BBO	SN	61	ES	3		12:23	10.41		
BBO	SN	61				12:23	12.10	6	0.26
BBO	SE	61				12:23	11.09	5	0.12
BTA	SZ	39	EP	3		12:22	59.68		
BTA	SN	39	ES	3		12:23	04.67		
BTA	SN	39				12:23	06.99	8	0.29
BTA	SE	39				12:23	07.26	9	0.37
BWH	SZ	105	EP	3		12:23	10.63		
BWH	SZ	105	ES	3		12:23	23.08		
BBH	SZ	68	EP	2		12:23	04.72		
BDL	SZ	44	EP	2		12:23	00.59		
ESK	SN	95				12:23	21.79	2	0.23
ESK	SE	95	ES	3		12:23	20.31		
ESK	SE	95				12:23	22.27	4	0.26
ESK	SZ	95	EP	3		12:23	08.81		
XAL	SZ	27	EP	3		12:22	57.66		

May 7 1993 Time: 10:26 34.0 UTC Magnitude: -0.1 ML
Lat: 56.124N Lon: 3.711W Depth: 0.5 km
Grid Ref: 293.61 kmE 693.64 kmN RMS: 0.24 secs
Locality: CLACKMANNAN, CENTRAL Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EBH	SZ	19	EPG	2	D	10:26	38.03		
EBH	SZ	19	ESG	3		10:26	41.09		
EBH	SZ	19				10:26	47.20	16	1.12
EAB	SZ	40	EPG	3		10:26	41.49		
EAB	SZ	40	ESG	3		10:26	46.37		
EBL	SZ	57	EPG	3		10:26	44.28		
EAU	SZ	35	EPG	3		10:26	40.23		
PCO	SZ	28	EP			10:26	39.58		
PCO	SZ	28	ES	2		10:26	44.02		

May 7 1993 Time: 11:30 0.5 UTC Magnitude: 1.7 ML
Lat: 59.069N Lon: 3.374W Depth: 7.2 km
Grid Ref: 321.25 kmE 1021.05 kmN RMS: 0.12 secs
Locality: WEST OF ORKNEY Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCD	SN	166	ES	2		11:30	44.38		
MCD	SZ	166	EP	3		11:30	25.71		
MVH	SZ	136	EP	2		11:30	22.35		
MVH	SZ	136	ES	3		11:30	38.09		
MLA	SZ	85	EP	2		11:30	14.16		
MLA	SZ	85	ES	3		11:30	24.47		
LRW	SN	172				11:30	49.78	7	0.19
LRW	SE	172	ES	2		11:30	45.62		
LRW	SE	172				11:30	50.69	8	0.21
SAN	SZ	161	EP	3		11:30	25.45		
SAN	SZ	161	ES	3		11:30	43.39		

May 7 1993 Time: 12:50 43.0 UTC Magnitude: 2.3 ML
Lat: 52.138N Lon: 2.475W Depth: 11.5 km
Grid Ref: 367.51 kmE 248.97 kmN RMS: 0.18 secs
Locality: BROMYARD, HER & WOR Quality: B
Comments: 6KM SE OF BROMYARD

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	54	IP		D	12:50	52.37		
SSP	SN	54				12:50	59.40	107	0.15
SSP	SE	54	ES	2		12:50	59.08		
SSP	SE	54				12:50	59.46	224	0.13
HAE	SZ	12	IP		C	12:50	46.40		
HCG	SZ	83	IP		C	12:50	57.05		
HCG	SZ	83	ES	2		12:51	07.20		
HGH	SZ	60	EP	1		12:50	53.29		
HLM	SZ	51	IP		D	12:50	51.71		
HTR	SZ	55	IP		C	12:50	52.25		
SBD	SZ	101	EP	1	D	12:50	59.68		
HBL2	SZ	40	IP	1	C	12:50	50.03		
CWF	SN	104	ES	2		12:51	11.97		
CWF	SN	104				12:51	16.54	45	0.15
CWF	SE	104				12:51	14.56	45	0.10
KWE	SZ	107	EP	2		12:51	00.78		
KBI	SZ	140	EP	2		12:51	05.78		
KUF	SZ	152	EP	2		12:51	07.48		
KEY	SZ	126	EP	4		12:51	03.62		
KEY	SZ	126				12:51	18.75	41	0.07
HTL	SN	189				12:51	36.87	23	0.25
HTL	SE	189	ES	3		12:51	33.36		
HTL	SE	189				12:51	36.48	43	0.19
HTL	SZ	189	EP	2		12:51	11.90		
HSA	SZ	124	EP	1		12:51	02.85		
HPE	SZ	160	EP	2		12:51	08.19		
HEX	SZ	151	EP	2		12:51	07.29		
WCB	SE	196				12:51	38.69	14	0.16
WPM	SZ	158	EP	1	D	12:51	08.17		
WPM	SZ	158	ES	2		12:51	26.32		
YLL	SZ	160	EP	2		12:51	08.30		
YRE	SZ	162	EP	3		12:51	08.59		
YRH	SZ	166	EP	1	D	12:51	08.99		
WFB	SZ	123	EP	2		12:51	03.19		
WCB	SZ	196	EP	3		12:51	13.20		
MCH	SN	39	ES	1		12:50	54.87		
MCH	SZ	39	IP		C	12:50	49.93		
CWF	SZ	104	IP	1	C	12:50	59.87		

May 12 1993 Time: 21:46 36.1 UTC Magnitude: 0.3 ML
Lat: 56.123N Lon: 3.704W Depth: 0.1 km
Grid Ref: 294.06 kmE 693.59 kmN RMS: 0.25 secs
Locality: CLACKMANNAN, CENTRAL Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDU	SZ	64	EPG	3		21:46	48.24		
EDU	SZ	64	ESG	3		21:46	56.24		
EBH	SZ	19	EPG	2	D	21:46	40.22		
EBH	SZ	19	ESG	3		21:46	43.10		
EAB	SZ	40	EPG	3		21:46	43.63		
EDI	SZ	39	EPG	2		21:46	43.57		
EDI	SN	39	ESG	3		21:46	49.55		
EDI	SN	39				21:46	57.98	12	1.20
EDI	SE	39				21:46	54.87	8	1.50
EAU	SZ	35	EPG	3		21:46	42.37		
EAU	SZ	35	ESG	3		21:46	47.83		
PCO	SZ	29	EP	2		21:46	41.78		
PCO	SZ	29	ES	3		21:46	46.63		

May 19 1993 Time: 07:24 12.7 UTC Magnitude: 2.1 ML
Lat: 60.501N Lon: 2.000E Depth: 22.3 km
Grid Ref: 619.64 kmE 1186.32 kmN RMS: 0.13 secs
Locality: NORTHERN NORTH SEA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
YEL	SZ	170	EP	2		07:24	37.05		
MME	SZ	456	ES	3		07:25	56.42		
KMY	SZ	232	EP	2		07:24	45.02		
KMY	SZ	232	ES	3		07:25	08.02		

EGD	SZ	182	EP	3		07:24	38.50		
SUE	SN	163	EP	3		07:24	36.14		
SUE	SN	163	ES	3		07:24	53.52		
LRW	SN	180	ES	3		07:24	57.35		
LRW	SN	180				07:25	03.48	19	0.10
LRW	SE	180				07:25	05.47	19	0.23
LRW	SZ	180	EP	3		07:24	38.85		
SAN	SZ	187	EP	3		07:24	39.29		

May 21 1993 Time: 13:43 2.0 UTC Magnitude: -0.2 ML
Lat: 52.320N Lon: 3.521W Depth: 15.8 km
Grid Ref: 296.34 kmE 270.21 kmN RMS: 0.05 secs
Locality: RHAYADER, POWYS Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SZ	51	EP	1		13:43	10.71		
HLM	SZ	48	IP	1	D	13:43	10.47		
HLM	SZ	48	ES	3		13:43	16.51		
HTR	SZ	32	EP	3		13:43	08.10		
HCG	SZ	9	IP		C	13:43	05.08		
HCG	SZ	9	ES	2		13:43	07.27		
HCG	SZ	9				13:43	07.42	7	0.10

May 22 1993 Time: 22:02 27.9 UTC Magnitude: 2.2 ML
Lat: 50.277N Lon: 2.493W Depth: 6.9 km
Grid Ref: 364.91 kmE 42.02 kmN RMS: 0.33 secs
Locality: ENGLISH CHANNEL Quality: D
Comments: 40KM SOUTH OF WEYMOUTH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	242	EP	3		22:03	03.52		
SSP	SN	242	ES	4		22:03	29.12		
SSP	SN	242				22:03	36.49	5	0.29
SSP	SE	242				22:03	38.08	10	0.17
HAE	SZ	196	EP	2		22:02	59.63		
HCG	SZ	242	EP	3		22:03	04.00		
HGH	SZ	153	EP	2		22:02	52.35		
HLM	SZ	251	EP	3		22:03	06.23		
HTR	SZ	208	EP	2		22:02	59.04		
JRS	SN	124	ES	2		22:03	02.03		
JRS	SN	124				22:03	04.17	60	0.17
JRS	SE	124				22:03	04.20	100	0.19
JLP	SZ	118	EP	2		22:02	47.30		
JLP	SZ	118	ES	3		22:03	00.87		
JSA	SZ	123	EP	2		22:02	48.15		
JSA	SZ	123	ES	3		22:03	02.38		
JVM	SZ	120	EP	2		22:02	47.32		
JVM	SZ	120	ES	3		22:03	01.81		
JQS	SZ	126	EP	1		22:02	48.69		
JQE	SZ	124	EP	2		22:02	48.54		
JQE	SZ	124	ES			22:03	02.82		
JQW	SZ	124	EP	2		22:02	47.96		
JQW	SZ	124	ES	3		22:03	02.32		
JRS	SZ	124	EP	1		22:02	48.30		
CR2	SZ	192	EP	1		22:02	57.02		
CR2	SN	192				22:03	27.43	13	0.09
CR2	SE	192				22:03	26.53	14	0.07
HTL	SE	162				22:03	19.07	31	0.23
HEX	SZ	128	EP	2		22:02	49.00		
DYA	SZ	104	EP	2		22:02	44.80		
DYA	SN	104	ES	2		22:02	56.82		
DYA	SN	104				22:03	01.22	76	0.16
DYA	SE	104				22:03	00.10	111	0.18
HTL	SZ	162	EP	3		22:02	54.55		
CWF	SZ	286	EP	3		22:03	08.63		
CWF	SN	286				22:03	46.98	3	0.19
CWF	SE	286	ES	3		22:03	37.67		
CWF	SE	286				22:03	38.60	6	0.12
MCH	SZ	195	EP	4		22:02	59.78		
MCH	SN	195	ES	2		22:03	20.05		
MCH	SN	195				22:03	24.42	17	0.19
MCH	SE	195				22:03	24.50	19	0.25
TEB	SZ	197	EP	1		22:02	57.69		

May 23 1993 Time: 05:04 12.8 UTC Magnitude: 0.7 ML
Lat: 50.110N Lon: 5.180W Depth: 6.8 km
Grid Ref: 172.69 kmE 28.27 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	05:04	14.50		
CR2	SN	6	ES			05:04	15.74		
CR2	SN	6				05:04	15.93	46	0.06
CR2	SE	6				05:04	15.79	118	0.06
CGH	SZ	7	EP		D	05:04	14.50		
CCO	SZ	3	EP		D	05:04	14.18		
CCO	SZ	3	ES			05:04	15.19		
CCA	SZ	9	IP		D	05:04	14.82		
CCA	SZ	9	ES			05:04	16.29		
CST	SZ	10	IP		C	05:04	14.89		
CST	SZ	10	ES			05:04	16.41		
CBW	SZ	6	IP		C	05:04	14.47		
CBW	SZ	6	ES			05:04	15.70		
CME	SZ	7	IP		C	05:04	14.62		
CME	SN	7	ES			05:04	15.91		
CGW	SZ	3	IP		C	05:04	14.16		
CTR	SZ	6	IP		C	05:04	14.49		
CTR	SZ	6	ES			05:04	15.76		

May 25 1993 Time: 18:25 37.9 UTC Magnitude: 0.4 ML
Lat: 57.305N Lon: 6.123W Depth: 4.7 km
Grid Ref: 151.69 kmE 831.31 kmN RMS: 0.05 secs
Locality: ISLE OF SKYE, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	29	ES	2		18:25	47.06		
KPL	SN	29				18:25	49.50	15	0.97
KPL	SE	29				18:25	53.67	14	0.90
KAC	SZ	54	EP	2		18:25	47.50		
KAC	SZ	54	ES	2		18:25	54.20		
KSK	SZ	39	EP	3		18:25	44.97		
KPL	SZ	29	EP	2		18:25	43.26		
KSB	SZ	44	EP	3		18:25	45.75		
KSB	SZ	44	ES	3		18:25	51.27		
KSB	SZ	44				18:25	56.37		

May 26 1993 Time: 18:48 34.6 UTC Magnitude: 1.3 ML
Lat: 55.930N Lon: 5.801W Depth: 2.1 km
Grid Ref: 162.59 kmE 677.31 kmN RMS: 0.35 secs
Locality: JURA, STRATHCLYDE Quality: D
Comments: 3KM SE OF LAGG,JURA

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PGB	SN	84	ES	2		18:48	59.62		
PGB	SN	84				18:49	01.32	10	0.20
PGB	SE	84				18:49	02.26	8	0.20
GCL	SZ	97	ES	3		18:49	03.00		
GCL	SZ	97	EP	3		18:48	50.08		
GCL	SZ	97	ES	3		18:49	03.00		
EAB	SZ	95	EP	3		18:48	51.09		
EAB	SZ	95	ES	3		18:49	02.05		
PMS	SZ	67	EP	2		18:48	46.26		
PMS	SZ	67	ES	2		18:48	54.20		
GMK	SZ	66	EP	3		18:48	46.18		
GMK	SZ	66	ES	3		18:48	54.69		

May 29 1993 Time: 17:43 41.4 UTC Magnitude: 2.7 ML
Lat: 61.524N Lon: 1.901E Depth: 16.7 km
Grid Ref: 607.42 kmE 1299.75 kmN RMS: 0.28 secs
Locality: NORWEGIAN SEA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ASK	SZ	213	EP	3		17:44	11.73		
ASK	SZ	213	ES	3		17:44	34.16		
FOO	SZ	167	EP	3		17:44	05.88		
FOO	SZ	167	ES	3		17:44	23.52		
HYA	SZ	233	EP	3		17:44	14.23		
HYA	SZ	233	ES	3		17:44	38.67		
KMY	SZ	317	EP	3		17:44	24.49		
KMY	SZ	317	ES	3		17:44	55.69		
MOL	SZ	318	EP	3		17:44	24.44		
BER	SZ	225	ES	3		17:44	36.84		
MCD	SN	527				17:45	43.97	5	0.23
MCD	SE	527	ES	3		17:45	41.02		
MCD	SE	527				17:45	44.01	6	0.31
MME	SZ	544	ES	3		17:45	44.50		
LRW	SN	228				17:44	49.81	15	0.17
LRW	SE	228	ES	3		17:44	37.02		
LRW	SE	228				17:44	50.62	19	0.11
LRW	SZ	228	EP	3		17:44	13.88		
SAN	SZ	240	EP	3		17:44	15.24		
YEL	SZ	195	EP	2		17:44	09.34		

May 31 1993 Time: 16:12 18.3 UTC Magnitude: 0.0 ML
Lat: 56.387N Lon: 4.012W Depth: 5.4 km
Grid Ref: 275.80 kmE 723.48 kmN RMS: 0.21 secs
Locality: COMRIE, TAYSIDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EAB	SZ	30	EPG	3		16:12	24.05		
EAB	SZ	30	ESG	3		16:12	27.76		
EAB	SZ	30				16:12	30.03	2	0.06
EBH	SZ	35	EPG	2		16:12	24.92		
EBH	SZ	35	ESG	3		16:12	29.10		
EBH	SZ	35				16:12	29.44	3	0.15
ELO	SZ	21	EPG	3		16:12	22.47		
ELO	SZ	21	ESG	3		16:12	25.02		
ELO	SZ	21				16:12	25.49	6	0.12

June 2 1993 Time: 08:47 41.6 UTC Magnitude: 0.3 ML
Lat: 55.197N Lon: 2.985W Depth: 6.9 km
Grid Ref: 337.32 kmE 589.60 kmN RMS: 0.08 secs
Locality: LANGHOLM, D & G Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ECK	SZ	9	IP		C	08:47	43.97		
ECK	SZ	9	IS	1		08:47	45.48		
BWH	SZ	43	IP		C	08:47	49.23		
BWH	SZ	43	ES	2		08:47	54.52		
BBH	SZ	8	IP		D	08:47	43.76		

BBH	SZ	8	ES	2		08:47	44.99		
BTA	SZ	38	EP	2		08:47	48.43		
BTA	SN	38	EPN			08:47	38.81		
BTA	SN	38	ES	3		08:47	53.15		
BTA	SN	38				08:47	57.12	3	0.29
BTA	SE	38				08:47	53.29	2	0.14
ESK	SZ	19	EP	2	D	08:47	45.48		
ESK	SN	19	IS	1		08:47	48.08		
ESK	SN	19				08:47	48.13	9	0.11
ESK	SE	19				08:47	48.13	6	0.10
BHH	SZ	19	IP		C	08:47	45.42		
BHH	SN	19	ES	3		08:47	48.06		
BHH	SN	19				08:47	48.40	9	0.11
BHH	SE	19				08:47	48.51	16	0.15
BNA	SZ	48	EP	2	D	08:47	49.90		
BBO	SZ	54	EP	3		08:47	51.06		
BBO	SN	54	ES	3		08:47	57.74		
BBO	SN	54				08:47	59.83	4	0.14
BBO	SE	54				08:47	59.21	6	0.12

June 3 1993 Time: 04:09 54.9 UTC Magnitude: 1.0 ML
Lat: 54.695N Lon: 2.449W Depth: 2.3 km
Grid Ref: 371.04 kmE 533.43 kmN RMS: 0.10 secs
Locality: MILBURN FOREST, CUMBRIA Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ECK	SZ	69	EP	3		04:10	07.23		
ECK	SZ	69	ES	3		04:10	15.57		
ESK	SN	84				04:10	22.17	8	0.71
ESK	SE	84	ES	3		04:10	19.89		
ESK	SE	84				04:10	21.88	5	0.26
ESK	SZ	84	EP	3		04:10	09.66		
XAL	SZ	24	IP	1	C	04:09	59.60		
HPK	SZ	98	EP	3		04:10	11.97		
HPK	SN	98	ES	2		04:10	23.68		
HPK	SN	98				04:10	24.68	6	0.16
HPK	SE	98				04:10	23.92	14	1.48
GIM	SZ	138	EP	3		04:10	18.19		
GCD	SZ	98	EP	3		04:10	11.73		
GCD	SZ	98	ES	3		04:10	23.80		
XDE	SZ	71	IP	1	C	04:10	07.20		
XDE	SZ	71	ES	2		04:10	15.90		
CKE	SZ	44	IP	1	C	04:10	02.95		
CSF	SZ	58	EP	2		04:10	05.23		
CDU	SZ	63	EP	2	C	04:10	05.78		
LMI	SZ	77	EP	2		04:10	08.05		
LMI	SN	77				04:10	19.64	5	0.19
LMI	SE	77	ES	3		04:10	17.77		
LMI	SE	77				04:10	19.35	4	0.13
BHH	SZ	66	EP	3		04:10	06.65		
BHH	SN	66	ES	3		04:10	14.95		
BHH	SN	66				04:10	15.65	10	0.15
BHH	SE	66				04:10	17.30	7	0.13
BNA	SZ	81	EP	2		04:10	09.16		
BNA	SZ	81	ES	3		04:10	19.18		
BBO	SZ	52	IP	1	C	04:10	04.12		
BBO	SN	52	ES	2		04:10	10.51		
BBO	SN	52				04:10	11.19	6	0.11
BBO	SE	52				04:10	13.05	8	0.22
BTA	SZ	28	EP	3		04:10	00.41		
BTA	SN	28	ES	3		04:10	04.01		
BTA	SN	28				04:10	04.51	14	0.16
BTA	SE	28				04:10	04.75	13	0.12
BWH	SZ	94	ES	3		04:10	22.59		
BBH	SZ	58	EP	3		04:10	05.33		
BDL	SZ	34	IP	1	C	04:10	01.40		
LCP	SZ	63	EP	3		04:10	05.98		
LCP	SZ	63	ES	3		04:10	13.94		

June 9 1993 Time: 19:02 42.6 UTC Magnitude: -0.3 ML
Lat: 57.290N Lon: 5.642W Depth: 0.2 km
Grid Ref: 180.54 kmE 827.98 kmN RMS: 0.03 secs
Locality: PLOCKTON, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	6				19:02	45.55	6	0.08
KPL	SE	6				19:02	44.53	9	0.11
KSB	SZ	16	IP		C	19:02	46.21		
KSB	SZ	16	ES	3		19:02	48.76		
KAC	SZ	31	EP	2		19:02	48.84		
KPL	SZ	6	IP		C	19:02	43.97		

June 10 1993 Time: 11:30 14.3 UTC Magnitude: 1.8 ML
Lat: 58.443N Lon: 0.294E Depth: 15.0 km
Grid Ref: 533.89 kmE 952.73 kmN RMS: 0.35 secs
Locality: NORTHERN NORTH SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
LRW	SN	206				11:31	08.50	5	0.19
LRW	SE	206	ES	2		11:31	05.50		
LRW	SE	206				11:31	09.46	7	0.22
SAN	SZ	196	EP	3		11:30	42.71		
SAN	SZ	196	ES	3		11:31	04.34		

June 10 1993 Time: 13:25 50.7 UTC Magnitude: 0.0 ML
Lat: 52.957N Lon: 4.368W Depth: 22.2 km
Grid Ref: 240.96 kmE 342.64 kmN RMS: 0.08 secs
Locality: LLEYN PENINSULA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WCB	SN	48				13:26	06.33	1	0.07
WCB	SE	48	ES	3		13:26	05.37		
WCB	SE	48				13:26	06.00	1	0.06
WME	SZ	49	EP	2		13:25	59.53		
WLF	SZ	37	ES	2		13:26	02.24		
YRC	SZ	36	EP	3		13:25	57.40		
YRC	SZ	36	ES	2		13:26	02.05		
YLL	SZ	24	EP	2		13:25	55.99		
YLL	SZ	24	ES	2		13:25	59.68		
YRE	SZ	5	IP	1	D	13:25	54.35		
YRE	SZ	5	ES	2		13:25	56.92		
YRH	SZ	22	IP	1	C	13:25	55.79		

June 11 1993 Time: 01:54 9.7 UTC Magnitude: 0.4 ML
Lat: 52.386N Lon: 3.010W Depth: 13.6 km
Grid Ref: 331.29 kmE 276.95 kmN RMS: 0.15 secs
Locality: KNIGHTON, POWYS Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	8	EP	1	D	01:54	12.50		
SSP	SN	8	ES	2		01:54	14.50		
SSP	SN	8				01:54	14.79	27	0.05
SSP	SE	8				01:54	14.72	19	0.13
MCH	SN	43	ES	2		01:54	22.70		
MCH	SN	43				01:54	22.89	6	0.16
MCH	SE	43				01:54	23.11	4	0.16
HAE	SZ	50	EP	2		01:54	18.60		
HCG	SZ	45	IP		C	01:54	17.52		
HGH	SZ	84	EP	2		01:54	23.98		
HTR	SZ	39	EP	2		01:54	16.46		
HLM	SZ	17	IP		D	01:54	13.24		
HLM	SZ	17	ES	2		01:54	16.00		

June 13 1993 Time: 05:22 55.3 UTC Magnitude: 1.3 ML
Lat: 55.402N Lon: 5.251W Depth: 17.0 km
Grid Ref: 194.19 kmE 616.78 kmN RMS: 0.38 secs
Locality: ARRAN, STRATHCLYDE Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BNA	SZ	114	ES	3		05:23	26.01		
BNA	SZ	114	EP	2		05:23	13.21		
BNA	SZ	114	ES	3		05:23	26.01		
BWH	SZ	104	EP	2		05:23	12.46		
BWH	SZ	104	ES	3		05:23	24.09		
PMS	SZ	59	EP	2		05:23	05.11		
PMS	SZ	59	ES	3		05:23	12.85		
EBH	SZ	144	EP	3		05:23	17.43		
EBH	SZ	144	ES	3		05:23	34.46		
EDI	SZ	142	EP	3		05:23	18.04		
EDI	SN	142				05:23	37.15	4	0.17
EDI	SE	142	ES	3		05:23	34.42		
EDI	SE	142				05:23	37.03	4	0.11
EAU	SZ	124	EP	3		05:23	14.24		
EAU	SZ	124	ES	3		05:23	29.46		
EAB	SZ	105	EP	3		05:23	11.43		
EAB	SZ	105	ES	3		05:23	24.27		

June 13 1993 Time: 11:24 12.9 UTC Magnitude: 1.8 ML
Lat: 56.185N Lon: 6.095W Depth: 4.9 km
Grid Ref: 145.90 kmE 706.73 kmN RMS: 0.23 secs
Locality: COLONSAY, STRATHCLYDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	131	ES	2		11:24	49.68		
KPL	SN	131				11:24	52.93	11	0.17
KPL	SE	131				11:24	52.76	21	0.16
KNR	SZ	99	EP	2		11:24	29.01		
KNR	SZ	99	ES	3		11:24	41.56		
KAR	SZ	83	EP	2	C	11:24	26.81		
KAR	SZ	83	ES	3		11:24	36.60		
KSB	SZ	121	EP	3		11:24	32.82		
KSB	SZ	121	ES	3		11:24	47.36		
KAC	SZ	154	EP	3		11:24	37.10		
KAC	SZ	154	ES	3		11:24	55.79		
KPL	SZ	131	EP	2		11:24	34.40		
BHH	SZ	218	EP	3		11:24	46.32		
BHH	SE	218	ES			11:25	11.44		
BBO	SN	242				11:25	19.99	4	0.17
BBO	SE	242	ES	2		11:25	19.28		
BBO	SE	242				11:25	20.51	5	0.33
GCD	SZ	201	ES	3		11:25	07.51		
BNA	SZ	207	EP	3		11:24	45.63		
EAB	SZ	109	IP	1	C	11:24	30.65		
EAB	SZ	109	ES	3		11:24	43.07		
EBH	SZ	161	EP	3		11:24	38.27		
EBH	SZ	161	ES	3		11:24	57.60		
ELO	SZ	151	EP	2	C	11:24	37.44		
ELO	SZ	151	ES	3		11:24	53.92		
EDI	SN	183				11:25	05.80	11	0.15

EDI	SE	183				11:25	05.50	8	0.22
EAU	SZ	170	EP	3		11:24	39.54		
EAU	SZ	170	ES	3		11:24	59.02		
EDI	SZ	183	EP	3		11:24	41.14		
PCA	SZ	127	EP	2		11:24	33.80		
PCA	SZ	127	ES	3		11:24	48.70		
PMS	SZ	92	EP	2	C	11:24	28.11		
PCO	SZ	126	IP	1	D	11:24	33.64		
PCO	SZ	126	ES	2		11:24	48.55		

June 13 1993 Time: 15:00 55.7 UTC Magnitude: 2.2 ML
Lat: 49.031N Lon: 3.919W Depth: 11.1 km
Grid Ref: 259.73 kmE -94.78 kmN RMS: 0.28 secs
Locality: ENGLISH CHANNEL Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
JRS	SN	135	ES	2		15:01	32.65		
JRS	SN	135				15:01	33.95	42	0.13
JRS	SE	135				15:01	33.48	32	0.12
JLP	SZ	135	EP	2		15:01	16.77		
JSA	SZ	129	EP	2		15:01	16.20		
JSA	SZ	129	ES	2		15:01	31.61		
JVM	SZ	127	EP	2		15:01	15.46		
JVM	SZ	127	ES	3		15:01	30.83		
JQS	SZ	137	EP	2		15:01	17.40		
JQE	SZ	139	EP	2		15:01	17.53		
JQE	SZ	139	ES	3		15:01	34.25		
JQW	SZ	137	EP	2		15:01	17.32		
JQW	SZ	137	ES	3		15:01	33.72		
JRS	SZ	135	EP	2		15:01	16.89		
CCO	SZ	154	EP	2		15:01	20.05		
CCO	SZ	154	ES	3		15:01	36.82		
DYA	SZ	156	EP	2		15:01	20.29		

June 14 1993 Time: 06:25 47.7 UTC Magnitude: 0.4 ML
Lat: 55.087N Lon: 3.633W Depth: 3.1 km
Grid Ref: 295.79 kmE 578.18 kmN RMS: 0.04 secs
Locality: DUMFRIES, D & G Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BNA	SZ	14	EP	2		06:25	50.62		
BNA	SZ	14	ES	2		06:25	52.61		
BWH	SZ	10	EP	2		06:25	50.05		
BWH	SZ	10	ES	2		06:25	51.58		
GCD	SZ	32	EP	3		06:25	53.65		
GCD	SZ	32	ES	3		06:25	57.82		
BHH	SZ	27	EP	2		06:25	52.76		
BHH	SN	27				06:25	56.31	8	0.22
BHH	SE	27	ES	2		06:25	56.30		
BHH	SE	27				06:25	57.64	13	0.17

June 14 1993 Time: 07:37 30.8 UTC Magnitude: 2.3 ML
Lat: 60.406N Lon: 2.178E Depth: 19.8 km
Grid Ref: 630.03 kmE 1176.36 kmN RMS: 0.38 secs
Locality: NORTHERN NORTH SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCD	SE	443				07:39	13.18	4	0.38
ASK	SZ	167	EP	3		07:37	55.30		
ASK	SZ	167	ES	3		07:38	12.89		
HYA	SZ	234	EP	3		07:38	03.19		
HYA	SZ	234	ES	3		07:38	27.73		
KMY	SZ	218	EP	3		07:38	01.71		
KMY	SZ	218	ES	3		07:38	23.31		
MOL	SZ	374	EP	3		07:38	20.12		
MOL	SZ	374	ES	3		07:38	56.89		
FOO	SZ	204	EP	3		07:38	00.04		
FOO	SZ	204	ES	3		07:38	21.56		
LRW	SN	188	ES	3		07:38	17.33		
LRW	SN	188				07:38	22.59	11	0.15
LRW	SE	188				07:38	25.16	13	0.14
LRW	SZ	188	EP	3		07:37	57.82		
SAN	SZ	194	EP	3		07:37	58.82		
MCD	SN	443	ES	4		07:39	07.28		
MCD	SN	443				07:39	12.48	3	0.36

June 15 1993 Time: 04:46 44.8 UTC Magnitude: 0.5 ML
Lat: 56.135N Lon: 3.687W Depth: 0.4 km
Grid Ref: 295.16 kmE 694.84 kmN RMS: 0.40 secs
Locality: CLACKMANNAN, CENTRAL Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SN	39				04:47	01.12	5	0.37
EDI	SE	39	ESG	3		04:46	58.36		
EDI	SE	39				04:47	00.70	4	0.20
EAU	SZ	36	EPG	3		04:46	51.47		
EAU	SZ	36	ESG	3		04:46	56.69		
EBH	SZ	17	EPG	2		04:46	48.25		
EBH	SZ	17	ESG	3		04:46	51.72		
EDI	SZ	39	EPG	3		04:46	51.95		
PCO	SZ	30	EP	2		04:46	50.47		
PCO	SZ	30	ES	3		04:46	55.91		

June 15 1993 Time: 09:06 0.7 UTC Magnitude: 3.0 ML
Lat: 54.930N Lon: 5.678E Depth: 15.0 km
Grid Ref: 891.46 kmE 586.47 kmN RMS: 0.42 secs
Locality: SOUTHERN NORTH SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EBH	SZ	597	EP	3		09:07	18.38		
EBH	SZ	597	ES	3		09:08	16.19		
EAB	SZ	647	EP	3		09:07	25.76		
EDI	SN	572	ES	3		09:08	09.98		
EDI	SN	572				09:08	13.28	8	0.22
EDI	SE	572				09:08	12.55	5	0.34
EBL	SZ	561	EP	3		09:07	13.89		
EBL	SZ	561	ES	3		09:08	08.53		
ESY	SZ	537	EP	3		09:07	10.87		
MCD	SN	627	ES	3		09:08	22.57		
MCD	SN	627				09:08	25.51	3	0.43
MCD	SE	627				09:08	26.88	3	0.27
MME	SZ	600	ES	3		09:08	16.68		
ESK	SN	569	ES	3		09:08	08.98		
ESK	SN	569				09:08	11.41	5	0.20
ESK	SE	569				09:08	10.47	4	0.17
XSO	SZ	509	EP	2	C	09:07	08.55		
XSO	SZ	509	ES	2		09:07	57.28		
XAL	SZ	506	EP	3		09:07	07.87		
ESK	SZ	569	EP	3		09:07	15.08		
ESY	SZ	537	ES	3		09:08	03.10		

June 15 1993 Time: 16:34 36.7 UTC Magnitude: 2.3 ML
Lat: 57.063N Lon: 5.753W Depth: 5.7 km
Grid Ref: 172.50 kmE 803.07 kmN RMS: 0.20 secs
Locality: KNOYDART, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SN	203				16:35	33.99	17	0.17
EDI	SE	203	ES	3		16:35	30.59		
EDI	SE	203				16:35	34.76	30	0.14
EAU	SZ	196	EP	3		16:35	06.77		
EBL	SZ	220	EP	3		16:35	10.52		
ESY	SZ	232	EP	3		16:35	11.06		
EAB	SZ	130	EP	2		16:34	58.29		
EAB	SZ	130	ES	3		16:35	13.02		
EBH	SZ	165	EP	3		16:35	02.59		
EDU	SZ	177	EP	3		16:35	05.04		
ELO	SZ	141	EP	3		16:34	59.47		
ELO	SZ	141	ES	3		16:35	16.34		
EDR	SZ	196	EP	2	C	16:35	05.98		
EDI	SZ	203	EP	3		16:35	08.24		
KPL	SN	31				16:34	47.18	100	0.18
KPL	SE	31	ES	2		16:34	46.52		
KPL	SE	31				16:34	46.82	126	0.15
KNR	SZ	55	IP	1	C	16:34	45.97		
KAR	SZ	17	IP		D	16:34	40.03		
KSB	SZ	26	IP		D	16:34	41.48		
KAC	SZ	56	IP		D	16:34	46.41		
KPL	SZ	31	IP		D	16:34	42.59		
BBH	SZ	278	EP	3		16:35	16.77		
MCD	SN	161				16:35	22.91	79	0.15
MCD	SE	161	ES	2		16:35	20.69		
MCD	SE	161				16:35	22.62	61	0.17
MCD	SZ	161	EP	2		16:35	02.38		
MME	SZ	171	EP	2		16:35	02.98		
MVH	SZ	134	EP	2		16:34	58.92		
MVH	SZ	134	ES	3		16:35	13.97		
PGB	SZ	160	EP	3		16:35	02.28		
PGB	SN	160	ES	3		16:35	19.89		
PGB	SN	160				16:35	22.00	70	0.21
PGB	SE	160				16:35	22.37	54	0.23
PCA	SZ	178	EP	3		16:35	04.35		
PCA	SZ	178	ES	3		16:35	24.39		
PMS	SZ	149	EP	3		16:35	01.08		
GMK	SZ	191	EP	2		16:35	05.60		
MLA	SZ	199	EP	3		16:35	07.44		
PCO	SZ	157	EP	3		16:35	01.39		
BHH	SZ	270	EP	3		16:35	15.81		
MDO	SZ	94	EP	2		16:34	52.58		
MDO	SZ	94	ES	3		16:35	03.72		

June 19 1993 Time: 16:20 35.8 UTC Magnitude: 1.6 ML
Lat: 52.860N Lon: 2.193W Depth: 10.9 km
Grid Ref: 387.00 kmE 329.18 kmN RMS: 0.16 secs
Locality: STAFFORD, STAFFORDSHIRE Quality: C
Comments: 6KM NW OF STAFFORD

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	61	EP	2		16:20	46.29		
CWF	SN	61				16:20	53.86	20	0.16
CWF	SE	61	ES			16:20	53.58		
CWF	SE	61				16:20	54.72	12	0.10
KWE	SZ	29	EP	1	C	16:20	41.22		
KBI	SZ	63	EP	1	C	16:20	46.38		
SSP	SZ	79	IP	1	D	16:20	48.96		
SSP	SN	79	ES	2		16:20	58.53		
SSP	SN	79				16:21	00.53	12	0.11

SSP	SE	79				16:21	01.04	10	0.14
WCB	SN	168				16:21	22.01	4	0.23
WCB	SE	168	ES	3		16:21	20.54		
WCB	SE	168				16:21	22.02	5	0.21
WLF	SZ	155	EP	2		16:21	00.01		
WLF	SZ	155	ES	3		16:21	16.79		
YRC	SZ	165	ES	3		16:21	19.64		
WPM	SZ	123	ES	3		16:21	08.53		
YLL	SZ	136	EP	3		16:20	57.18		
YLL	SZ	136	ES	3		16:21	11.94		
YRE	SZ	151	EP	3		16:20	59.22		
YRE	SZ	151	ES	3		16:21	16.53		
YRH	SZ	164	EP	2		16:21	01.41		
MCH	SN	111	ES	2		16:21	06.73		
MCH	SN	111				16:21	07.08	29	0.32
MCH	SE	111				16:21	07.08	33	0.13
MCH	SZ	111	EP	2		16:20	53.80		
SBD	SZ	72	EP	1		16:20	47.29		
HAE	SZ	95	EP	1		16:20	51.72		
HCG	SZ	116	EP	2		16:20	54.57		
HTR	SZ	114	EP	1		16:20	54.36		
HTR	SZ	114	ES	2		16:21	07.48		
HLM	SZ	61	EP	1	C	16:20	45.68		

June 22 1993 Time: 05:38 58.6 UTC Magnitude: 1.6 ML
Lat: 53.190N Lon: 1.399W Depth: 0.3 km
Grid Ref: 440.14 kmE 366.10 kmN RMS: 0.32 secs
Locality: CLAY CROSS, DERBYSHIRE Quality: D
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	144	EP	2		05:39	22.54		
SSP	SN	144	ES	2		05:39	40.17		
SSP	SN	144				05:39	42.22	8	0.21
SSP	SE	144				05:39	42.60	6	0.21
LWH	SZ	136	EP	3		05:39	21.23		
LWH	SZ	136	ES	3		05:39	38.16		
MCH	SN	171	ES	4		05:39	47.12		
MCH	SN	171				05:39	48.32	6	0.26
MCH	SE	171				05:39	48.84	6	0.24
SBD	SZ	129	EP	3		05:39	20.70		
HCG	SZ	180	EP	2		05:39	27.75		
HTR	SZ	177	EP	2		05:39	27.12		
HLM	SZ	125	EP	2		05:39	19.43		
KWE	SZ	36	EP	3		05:39	04.90		
KWE	SZ	36	ES	3		05:39	10.65		
KBI	SZ	11	EP	3		05:39	00.84		
KBI	SZ	11	ES	3		05:39	03.49		

June 22 1993 Time: 09:59 33.6 UTC Magnitude: 0.5 ML
Lat: 52.959N Lon: 4.368W Depth: 23.4 km
Grid Ref: 240.95 kmE 342.84 kmN RMS: 0.05 secs
Locality: LLEYN PENINSULA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WCB	SN	48				09:59	48.83	2	0.06
WCB	SE	48	ES	2		09:59	48.17		
WCB	SE	48				09:59	48.88	4	0.16
WME	SZ	49	EP	2		09:59	42.25		
WLF	SZ	37	ES	2		09:59	45.32		
YRC	SZ	35	IP	1	D	09:59	40.44		
YRC	SZ	35	ES	2		09:59	45.09		
WPM	SZ	46	EP	2		09:59	41.97		
YLL	SZ	24	IP	1	C	09:59	39.05		
YLL	SZ	24	ES	2		09:59	42.77		
YRE	SZ	5	IP		D	09:59	37.44		
YRE	SZ	5	ES	2		09:59	40.13		
YRH	SZ	22	IP		C	09:59	38.85		
YRH	SZ	22	ES	2		09:59	42.43		
WCB	SZ	48	EP	2		09:59	42.34		

June 22 1993 Time: 20:11 46.6 UTC Magnitude: 0.3 ML
Lat: 52.129N Lon: 2.831W Depth: 19.5 km
Grid Ref: 343.13 kmE 248.26 kmN RMS: 0.02 secs
Locality: WELLINGTON, HER & WOR Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	19	ES	2		20:11	54.24		
MCH	SN	19				20:11	54.54	11	0.11
MCH	SE	19				20:11	54.63	19	0.08
MCH	SZ	19	IP		C	20:11	51.10		
HAE	SZ	22	IP	1	D	20:11	51.44		
HTR	SZ	31	EP	2		20:11	52.56		
HLM	SZ	43	ES	2		20:12	00.02		

June 26 1993 Time: 05:42 20.0 UTC Magnitude: 3.0 ML
Lat: 54.206N Lon: 2.858W Depth: 8.3 km
Grid Ref: 344.05 kmE 479.26 kmN RMS: 0.19 secs
Locality: GRANGE-O-SANDS, CUMBRIA Quality: C
Comments: FELT GRANGE-OVER-SANDS.. FELT AREA APPROX 2700 SQ KM
Intensity: 5

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GIM	SZ	106	EP	2	D	05:42	38.03		
GIM	SE	106	ES	2		05:42	50.33		
GCD	SZ	102	IP	2	D	05:42	37.15		
XDE	SZ	53	IP		D	05:42	29.37		
CKE	SZ	46	IP		D	05:42	27.98		
CSF	SZ	37	IP		D	05:42	26.59		
CDU	SZ	26	IP		D	05:42	24.92		
LMI	SZ	29	IP		D	05:42	25.50		
LMI	SN	29	ES	3		05:42	29.14		
BHH	SZ	102	IP	1	D	05:42	37.36		
BHH	SN	102	ES	2		05:42	49.45		
BNA	SZ	98	IP	2	D	05:42	36.57		
BBO	SZ	64	IP		D	05:42	31.13		
BBO	SN	64	ES	1		05:42	38.73		
BTA	SZ	79	IP	2	C	05:42	33.55		
BTA	SE	79	ES	3		05:42	42.78		
BWH	SZ	120	IP		D	05:42	40.23		
BDL	SZ	67	IP		D	05:42	31.67		
EDI	SZ	192	EP	4		05:42	49.59		
EDI	SN	192				05:43	17.74	226	0.19
EDI	SE	192				05:43	15.85	241	0.20
EBL	SZ	175	EP	3	C	05:42	47.22		
ESY	SZ	191	EP	3	C	05:42	49.15		
KBI	SZ	138	IP	2	D	05:42	42.87		
HPK	SZ	85	EP	2	D	05:42	34.44		
HPK	SE	85	ES	3		05:42	44.47		
LHO	SZ	99	EP	2		05:42	36.78		
LWH	SZ	143	EP	3		05:42	43.57		
SSP	SZ	200	EP	4		05:42	50.99		
SSP	SN	200				05:43	16.07	80	0.20
SSP	SE	200				05:43	18.21	125	0.19
HLM	SZ	188	EP	3		05:42	49.06		
SBD	SZ	147	EP	3		05:42	43.86		
CWF	SZ	193	EP	3		05:42	49.82		
CWF	SN	193				05:43	16.88	165	0.18
CWF	SE	193				05:43	15.07	81	0.26
XAL	SZ	84	IP	1	C	05:42	34.20		
XSO	SZ	149	IP	1	C	05:42	43.76		
ECK	SZ	110	EP	2		05:42	38.72		
LCP	SZ	107	EP	2		05:42	37.77		
WCB	SN	145	ES	3		05:42	59.74		
WCB	SN	145				05:43	05.37	179	0.25
WCB	SE	145				05:43	06.09	212	0.20
YRC	SZ	155	IP	2	C	05:42	44.41		
WPM	SZ	126	IP	2	C	05:42	40.79		
WPM	SZ	126	ES	3		05:42	56.37		
YLL	SZ	147	IP	2	C	05:42	43.53		
WIM	SZ	119	IP	2	D	05:42	40.09		
WIM	SZ	119	ES	3		05:42	53.73		
WCB	SZ	145	IP	1	C	05:42	42.89		
ESK	SE	126	ES	2		05:42	55.45		
ESK	SZ	126	IP	2	C	05:42	40.87		
ESK	SZ	126				05:42	58.14	206	0.14
GAL	SE	141	ES	3		05:42	59.03		
GAL	SZ	141	IP	2	D	05:42	42.79		
GAL	SZ	141				05:43	02.15	129	0.13

June 26 1993 Time: 21:15 35.7 UTC Magnitude: 1.2 ML
Lat: 53.225N Lon: 2.991W Depth: 3.9 km
Grid Ref: 333.85 kmE 370.28 kmN RMS: 0.11 secs
Locality: CHESTER, CHESHIRE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	90	EP	2		21:15	50.70		
SSP	SN	90				21:16	02.43	4	0.25
SSP	SE	90	ES	2		21:16	01.77		
SSP	SE	90				21:16	02.33	7	0.15
HAE	SZ	136	EP	3		21:15	57.31		
HCG	SZ	110	EP	2		21:15	53.82		
HTR	SZ	129	EP	3		21:15	57.33		
SBD	SZ	40	IP		C	21:15	42.82		
SBD	SZ	40	ES	2		21:15	48.15		
WCB	SN	105				21:16	07.45	4	0.16
WCB	SE	105	ES	2		21:16	05.54		
WCB	SE	105				21:16	07.81	6	0.14
WME	SZ	90	EP	2		21:15	50.67		
WME	SZ	90	ES	3		21:16	01.22		
WLF	SZ	94	EP	3		21:15	51.93		
WLF	SZ	94	ES	2		21:16	02.61		
YRC	SZ	106	ES	2		21:16	06.11		
WPM	SZ	61	EP	1		21:15	46.24		
YLL	SZ	79	EP	1		21:15	49.16		
YLL	SZ	79	ES	2		21:15	58.84		
YRE	SZ	100	IP	1	C	21:15	52.30		
YRH	SZ	118	EP	1		21:15	55.02		
WCB	SZ	105	EP	3		21:15	53.32		

June 28 1993 Time: 17:27 23.8 UTC Magnitude: 2.1 ML
Lat: 61.647N Lon: 2.311E Depth: 10.2 km
Grid Ref: 628.25 kmE 1314.82 kmN RMS: 0.39 secs
Locality: NORWEGIAN SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SUE	SZ	147	EP	3		17:27	46.39		

SUE	SZ	147	ES	3		17:28	02.46		
HYA	SZ	214	EP	3		17:27	54.67		
HYA	SZ	214	ES	3		17:28	17.66		
ASK	SZ	203	EP	3		17:27	53.64		
ASK	SZ	203	ES	3		17:28	15.46		
LRW	SN	253				17:28	41.50	6	0.18
LRW	SE	253	ES	3		17:28	25.17		
LRW	SE	253				17:28	41.41	9	0.23
SAN	SZ	265	ES	3		17:28	28.62		
YEL	SZ	220	EP	3		17:27	55.57		
YEL	SZ	220	ES	3		17:28	19.36		

June 29 1993 Time: 00:45 58.2 UTC Magnitude: 2.8 ML
Lat: 58.991N Lon: 1.392E Depth: 21.8 km
Grid Ref: 594.85 kmE 1016.40 kmN RMS: 0.39 secs
Locality: NORTHERN NORTH SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SZ	453	EP	3		00:46	57.03		
KPL	SN	453				00:47	42.62	5	0.15
KPL	SE	453	ES	2		00:47	41.02		
KPL	SE	453				00:47	43.64	5	0.16
EDI	SZ	438	EP	3		00:46	56.07		
EDI	SN	438	ES	2		00:47	38.50		
EDI	SN	438				00:47	40.60	8	0.18
EDI	SE	438				00:47	42.75	6	0.20
EDU	SZ	378	EP	2		00:46	48.47		
ELO	SZ	414	EP	3		00:46	52.52		
EDR	SZ	328	EP	2		00:46	42.09		
EDR	SZ	328	ES	3		00:47	14.68		
MCD	SN	314	ES	2		00:47	11.78		
MFI	SZ	265	EP	2		00:46	34.61		
MFI	SZ	265	ES	3		00:47	00.68		
FOO	SZ	354	EP	3		00:46	44.86		
FOO	SZ	354	ES	3		00:47	20.08		
KMY	SZ	222	EP	3		00:46	29.35		
ODD1	SZ	314	EP	3		00:46	40.97		
LRW	SN	193	ES	3		00:46	45.58		
LRW	SN	193				00:46	52.57	73	0.26
LRW	SE	193				00:46	51.13	45	0.24
LRW	SZ	193	EP	3		00:46	25.24		
SAN	SZ	188	EP	2	C	00:46	25.15		
SAN	SZ	188	ES	2		00:46	44.92		
WAL	SZ	221	EP	2		00:46	29.62		
YEL	SZ	223	EP	2		00:46	29.85		
YEL	SZ	223	ES	3		00:46	50.97		

June 29 1993 Time: 04:03 48.8 UTC Magnitude: 2.0 ML
Lat: 53.036N Lon: 2.213W Depth: 4.1 km
Grid Ref: 385.71 kmE 348.82 kmN RMS: 0.16 secs
Locality: STOKE-ON-TRENT, STAFFS Quality: C
Comments: FELT TALKE PITS AREA Intensity: 5+

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	69	IP	1	D	04:04	00.51		
CWF	SN	69				04:04	09.69	53	0.16
CWF	SE	69	ES	2		04:04	08.79		
CWF	SE	69				04:04	09.70	43	0.16
KSY	SZ	110	EP	2		04:04	07.28		
KWE	SZ	25	IP	1	C	04:03	53.16		
KWE	SZ	25	ES	3		04:03	56.37		
KBI	SZ	52	IP		C	04:03	57.77		
WLF	SZ	149	IP	1	D	04:04	13.12		
YRC	SZ	160	EP	2	D	04:04	14.61		
WPM	SZ	116	EP	2		04:04	08.04		
YLL	SZ	132	EP	2		04:04	10.24		
YRE	SZ	149	EP	2		04:04	13.19		
YRE	SZ	149	ES	2		04:04	31.09		
YRH	SZ	164	EP	2		04:04	15.22		
WCB	SZ	161	EP	2		04:04	14.87		
MCH	SN	127	ES	2		04:04	24.81		
MCH	SN	127				04:04	28.19	36	0.20
MCH	SE	127				04:04	25.65	29	0.13
MCH	SZ	127	EP	2		04:04	09.86		
SBD	SZ	72	EP	1	C	04:04	01.13		
HAE	SZ	113	EP	2		04:04	08.02		
HAE	SZ	113	ES	2		04:04	21.63		
HTR	SZ	128	EP	2		04:04	10.11		
HTR	SZ	128	ES	2		04:04	25.29		
HLM	SZ	74	EP	1		04:04	01.16		
HLM	SZ	74	ES	2		04:04	10.06		
CDU	SZ	159	EP	2		04:04	14.06		
LMI	SZ	150	EP	2	C	04:04	13.64		
LMI	SE	150	ES	2		04:04	30.92		
WCB	SE	161	ES	2		04:04	33.39		

June 30 1993 Time: 05:59 56.8 UTC Magnitude: 2.2 ML
Lat: 53.313N Lon: 2.852W Depth: 8.9 km
Grid Ref: 343.21 kmE 379.97 kmN RMS: 0.27 secs
Locality: ELLESMERE PRT, CHESHIRE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WCB	SN	113	ES	3		06:00	28.14		
WCB	SN	113				06:00	30.02	24	0.17
WCB	SE	113				06:00	29.78	29	0.15
WME	SZ	97	EP	2		06:00	13.15		
WME	SZ	97	ES	3		06:00	24.21		
WLF	SZ	103	IP	1	C	06:00	13.81		
WLF	SZ	103	ES	2		06:00	25.49		
YRC	SZ	115	IP	1	C	06:00	15.64		
YRC	SZ	115	ES	2		06:00	28.97		
WPM	SZ	70	EP	2	C	06:00	08.84		
YLL	SZ	90	IP	1	C	06:00	11.89		
YLL	SZ	90	ES	2		06:00	22.34		
YRH	SZ	130	IP	1	C	06:00	17.85		
WCB	SZ	113	EP	2	C	06:00	15.47		
YRE	SZ	112	EP	2	C	06:00	15.09		
YRE	SZ	112	ES	3		06:00	27.81		
SSP	SZ	101	IP	1	C	06:00	13.37		
SSP	SN	101				06:00	27.41	51	0.16
SSP	SE	101	ES	3		06:00	25.40		
SSP	SE	101				06:00	26.93	73	0.18
HAE	SZ	144	EP	2		06:00	19.99		
HLM	SZ	89	IP	1	C	06:00	11.22		
HLM	SZ	89	ES	3		06:00	21.45		
HTR	SZ	140	IP	1	D	06:00	19.55		
SBD	SZ	53	IP		C	06:00	05.84		
SBD	SZ	53	ES	2		06:00	12.44		
HCG	SZ	123	EP	3		06:00	16.58		
HCG	SZ	123	ES	3		06:00	30.93		
BTA	SZ	178	EP	2	D	06:00	23.84		
BTA	SN	178	ES	3		06:00	42.98		
BTA	SN	178				06:00	47.34	60	0.17
BTA	SE	178				06:00	46.58	31	0.22
BBH	SZ	203	EP	3		06:00	26.63		
BDL	SZ	166	EP	3		06:00	22.27		
GIM	SZ	152	EP	2		06:00	20.67		
GIM	SN	152	ES	3		06:00	37.38		
GIM	SN	152				06:00	40.61	14	0.21
GIM	SE	152				06:00	41.43	14	0.20
GCD	SZ	187	EP	3	D	06:00	24.60		
XDE	SZ	139	EP	3		06:00	18.59		
BBO	SZ	161	EP	2		06:00	21.57		
BBO	SN	161				06:00	44.20	12	0.23
BBO	SE	161	ES	3		06:00	39.15		
BBO	SE	161				06:00	44.99	16	0.22
CKE	SZ	143	EP	2		06:00	19.53		
CKE	SZ	143	ES	3		06:00	35.63		
CSF	SZ	129	EP	2		06:00	17.35		
CSF	SZ	129	ES	2		06:00	32.22		
CDU	SZ	116	EP	3		06:00	15.89		
CDU	SZ	116	ES	3		06:00	28.67		
LMI	SZ	105	EP	3		06:00	14.44		
LMI	SN	105	ES	3		06:00	26.15		
LMI	SN	105				06:00	28.28	30	0.15
LMI	SE	105				06:00	27.83	72	0.32
WIM	SZ	152	EP	3		06:00	20.88		
CWF	SZ	122	EP	2		06:00	16.76		
CWF	SN	122	ES	3		06:00	30.48		
CWF	SN	122				06:00	32.56	39	0.17
CWF	SE	122				06:00	32.34	27	0.22
KWE	SZ	75	EP	2		06:00	09.27		
KWE	SZ	75	ES	3		06:00	18.04		
KBI	SZ	89	EP	2		06:00	11.51		
HPK	SZ	108	EP	1		06:00	14.80		
HPK	SN	108	ES	2		06:00	27.70		
HPK	SN	108				06:00	29.20	226	0.20
HPK	SE	108				06:00	29.46	185	0.22
LRN	SZ	141	EP	1		06:00	19.30		
LWH	SZ	183	EP	3		06:00	24.86		
MCH	SZ	147	EP	2		06:00	20.89		
MCH	SN	147				06:00	38.45	42	0.20
MCH	SE	147	ES	2		06:00	37.41		
MCH	SE	147				06:00	40.06	34	0.12

July 2 1993 Time: 11:15 16.4 UTC Magnitude: 0.2 ML
Lat: 57.187N Lon: 5.278W Depth: 6.7 km
Grid Ref: 201.95 kmE 815.45 kmN RMS: 0.05 secs
Locality: GLEN SHIEL, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	28				11:15	26.17	4	0.15
KPL	SE	28	ES	3		11:15	25.63		
KPL	SE	28				11:15	26.05	7	0.11
KSB	SZ	9	IP	1		11:15	18.63		
KSB	SZ	9	ES	3		11:15	20.27		
KPL	SZ	28	EP	1	C	11:15	21.67		
KAC	SZ	35	EP	3		11:15	22.82		
KAC	SZ	35	ES	3		11:15	27.27		

July 4 1993 Time: 01:56 32.7 UTC Magnitude: 1.9 ML
Lat: 54.155N Lon: 1.473W Depth: 1.3 km
Grid Ref: 434.41 kmE 473.35 kmN RMS: 0.18 secs
Locality: RIPON, NORTH YORKSHIRE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	158	EP	2		01:56	58.87		

CWF	SN	158	ES	3		01:57	16.13		
CWF	SN	158				01:57	17.31	9	0.11
CWF	SE	158				01:57	19.18	12	0.11
KSY	SZ	145	EP	2		01:56	56.60		
KWE	SZ	129	EP	2		01:56	54.43		
KWE	SZ	129	ES	3		01:57	09.90		
KBI	SZ	100	EP	2		01:56	49.68		
GCD	SZ	178	EP	3		01:57	01.82		
GCD	SZ	178	ES	3		01:57	22.55		
XDE	SZ	137	EP	3		01:56	55.64		
XDE	SZ	137	ES	3		01:57	11.80		
CKE	SZ	117	EP	2		01:56	52.68		
CKE	SZ	117	ES	3		01:57	06.12		
CSF	SZ	120	EP	2		01:56	53.00		
CDU	SZ	114	EP	2		01:56	51.96		
LMI	SZ	120	EP	2		01:56	52.93		
LMI	SN	120				01:57	09.18	18	0.14
LMI	SE	120	ES	3		01:57	07.44		
LMI	SE	120				01:57	08.03	22	0.23
BHH	SZ	154	EP	3		01:56	58.30		
BHH	SN	154	ES	2		01:57	16.22		
BHH	SN	154				01:57	16.47	26	0.18
BHH	SE	154				01:57	17.77	27	0.17
BNA	SZ	166	EP	3		01:57	00.05		
BBO	SZ	132	EP	2		01:56	54.84		
BBO	SN	132	ES	2		01:57	10.65		
BBO	SN	132				01:57	10.97	30	0.19
BBO	SE	132				01:57	11.47	37	0.24
BTA	SZ	115	EP	3		01:56	52.21		
BTA	SN	115	ES			01:57	06.21		
BTA	SN	115				01:57	06.65	20	0.23
BTA	SE	115				01:57	06.63	26	0.26
BBH	SZ	144	EP	2		01:56	56.78		
BDL	SZ	119	EP	2	C	01:56	52.94		
HPK	SZ	24	EP	1	C	01:56	37.23		
HPK	SN	24	ES	2		01:56	40.61		
HPK	SN	24				01:56	40.84	278	0.14
HPK	SE	24				01:56	40.89	276	0.18
LRN	SZ	36	IP	1	D	01:56	39.45		
LRN	SZ	36	ES	2		01:56	44.21		
LCP	SZ	65	EP	1		01:56	44.14		

July 5 1993 Time: 16:32 26.2 UTC Magnitude: -0.1 ML
Lat: 54.247N Lon: 2.960W Depth: 19.1 km
Grid Ref: 337.47 kmE 483.94 kmN RMS: 0.39 secs
Locality: HAVERTHWAITE, CUMBRIA Quality: D
Comments: MAGNITUDE FROM VERTICALS

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BBO	SE	58	EP	3		16:32	35.97		
LMI	SZ	23	EP	3		16:32	31.78		
LMI	SZ	23	ES	3		16:32	34.67		
LMI	SZ	23				16:32	31.84	4	0.05
CSF	SZ	29	ES	3		16:32	36.97		
CSF	SZ	29				16:32	37.09	3	0.16
CDU	SZ	18	ES	3		16:32	33.91		
CDU	SZ	18				16:32	34.41	6	0.14

July 6 1993 Time: 05:42 51.6 UTC Magnitude: 0.4 ML
Lat: 52.272N Lon: 2.596W Depth: 13.4 km
Grid Ref: 359.35 kmE 263.97 kmN RMS: 0.17 secs
Locality: TENBURY WELLS, HER&WOR Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	39	EP	1		05:42	58.65		
SSP	SN	39				05:43	04.20	3	0.06
SSP	SE	39	ES	2		05:43	03.87		
SSP	SE	39				05:43	03.87	4	0.15
MCH	SN	41	ES	2		05:43	04.16		
MCH	SN	41				05:43	04.30	6	0.24
MCH	SE	41				05:43	04.89	3	0.09
MCH	SZ	41	EP	2		05:42	58.77		
HAE	SZ	26	IP		C	05:42	56.79		
HGH	SZ	72	EP	1		05:43	03.93		
HTR	SZ	51	EP	1	C	05:43	00.36		
HLM	SZ	34	EP	2		05:42	57.55		

July 7 1993 Time: 11:48 6.6 UTC Magnitude: 4.0 ML
Lat: 55.551N Lon: 4.633E Depth: 0.3 km
Grid Ref: 818.10 kmE 648.62 kmN RMS: 0.24 secs
Locality: CENTRAL NORTH SEA Quality: C
Comments: FELT GORM PLATFORM AND ON STANDBY VESSEL

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KAR	SZ	667	EP	2		11:49	36.83		
KSB	SZ	648	EP	3		11:49	34.53		
KAC	SZ	649	EP	3		11:49	34.41		
KPL	SZ	666	EP	3		11:49	36.40		
WPM	SZ	611	EP	3		11:49	28.62		
YLL	SZ	633	EP	3		11:49	31.40		
YRE	SZ	656	EP	3		11:49	35.00		
YRH	SZ	676	EP	3		11:49	38.02		
WFB	SZ	651	EP	2		11:49	34.17		
EDR	SZ	471	EP	2		11:49	12.26		
WTS	SZ	421	IP	3		11:49	05.60		
ENN	SZ	539	IP	3		11:49	19.90		
ABH	SZ	660	EP	3		11:49	35.29		
RUP	SZ	671	EP	3		11:49	36.76		
MUD	SZ	301	EP	3		11:48	50.70		
KMY	SZ	409	EP	3		11:49	03.80		
BHH	SZ	501	EP	3		11:49	15.49		
BBH	SZ	483	EP	3		11:49	12.96		
BWH	SZ	527	EP	1	C	11:49	18.83		
BTA	SE	472				11:50	54.03	456	1.29
BTA	SN	472	ES	3		11:50	00.08		
BTA	SN	472				11:50	40.34	139	1.14
BTA	SZ	472	EP	2		11:49	11.75		
BBO	SE	511				11:51	01.35	158	1.21
BBO	SN	511				11:50	59.98	140	1.13
BBO	SZ	511	EP	3		11:49	16.81		
BNA	SZ	529	EP	2		11:49	18.92		
BHH	SE	501				11:50	58.46	167	1.22
BHH	SN	501	ES	3		11:50	06.43		
BHH	SN	501				11:50	41.39	90	0.92
EDI	SZ	493	EP	3		11:49	14.87		
EDI	SN	493	ES	3		11:50	04.81		
EDI	SN	493				11:51	03.23	221	1.20
EDI	SE	493				11:51	04.01	142	1.16
EAU	SZ	509	EP	3		11:49	16.83		
EBL	SZ	483	EP	2		11:49	13.75		
ESY	SZ	458	EP	3		11:49	10.05		
EAB	SZ	566	EP	3		11:49	24.20		
EBH	SZ	515	EP	3		11:49	17.55		
ELO	SZ	531	EP	2		11:49	19.85		
KMY	SN	409	EP	3		11:49	03.97		
KMY	SN	409	ES	3		11:49	46.23		
KWE	SZ	507	EP	3		11:49	16.59		
KBI	SZ	475	EP	3		11:49	12.53		
CWF	SZ	499	EP	3		11:49	15.49		
CWF	SN	499	ES	3		11:50	05.75		

July 8 1993 Time: 06:18 35.3 UTC Magnitude: 1.5 ML
Lat: 54.320N Lon: 3.118W Depth: 8.5 km
Grid Ref: 327.26 kmE 492.20 kmN RMS: 0.13 secs
Locality: CONISTON, CUMBRIA Quality: B
Comments: FELT KIRKBY-IN-FURNESS Intensity: 2+

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SZ	86	EP	4		06:18	49.78		
BHH	SN	86				06:19	03.86	24	0.31
BHH	SE	86	ES	3		06:19	00.32		
BHH	SE	86				06:19	02.75	12	0.21
BNA	SZ	79	EP	2		06:18	48.75		
BNA	SZ	79	ES	3		06:18	58.03		
BTA	SZ	71	EP	3		06:18	47.54		
BTA	SN	71	ES	3		06:18	56.41		
BTA	SN	71				06:18	59.14	26	0.17
BTA	SE	71				06:18	59.03	25	0.29
BWH	SZ	101	EP	3		06:18	52.24		
BDL	SZ	55	IP	1	C	06:18	44.99		
BBH	SZ	91	EP	3		06:18	51.17		
ESK	SN	111				06:19	09.24	5	0.11
ESK	SE	111	ES	3		06:19	06.94		
ESK	SE	111				06:19	08.67	7	0.19
XAL	SZ	84	EP	2	D	06:18	49.56		
HPK	SZ	106	EP	3		06:18	52.98		
HPK	SN	106	ES	3		06:19	05.04		
ESK	SZ	111	EP	3		06:18	53.87		
ECK	SZ	96	EP	3		06:18	51.69		
GIM	SZ	88	EP	2	D	06:18	50.28		
GIM	SN	88	ES	3		06:19	00.99		
GIM	SN	88				06:19	02.17	28	0.13
GIM	SE	88				06:19	02.09	20	0.15
GCD	SZ	81	EP	2		06:18	49.11		
XDE	SZ	32	IP		D	06:18	41.18		
BBO	SZ	47	IP		D	06:18	43.60		
BBO	SN	47	ES	3		06:18	49.20		
BBO	SN	47				06:18	50.45	21	0.21
BBO	SE	47				06:18	50.58	18	0.19
CKE	SZ	30	IP		D	06:18	40.75		
CKE	SZ	30	ES	3		06:18	44.41		
CSF	SZ	16	IP		D	06:18	38.74		
CSF	SZ	16	ES	2		06:18	41.23		
CDU	SZ	5	IP	1	D	06:18	37.25		
LMI	SZ	17	IP	1	C	06:18	38.49		
LMI	SN	17	ES	2		06:18	41.15		
LMI	SN	17				06:18	41.49	149	0.24
LMI	SE	17				06:18	41.64	132	0.20

July 8 1993 Time: 22:34 56.5 UTC Magnitude: 0.4 ML
Lat: 55.921N Lon: 3.081W Depth: 2.4 km
Grid Ref: 332.46 kmE 670.33 kmN RMS: 0.13 secs
Locality: MUSSELBURGH, LOTHIAN Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI

EDI	SZ	7	IP		D	22:34	58.03		
EDI	SN	7				22:34	59.55	30	0.16
EDI	SE	7	ES	3		22:34	59.01		
EDI	SE	7				22:34	59.67	32	0.15
EAU	SZ	24	EP	2		22:35	01.27		
EAU	SZ	24	ES	3		22:35	04.24		
EBL	SZ	17	EP	2	D	22:34	59.85		
EBL	SZ	17	ES	3		22:35	01.66		
ESY	SZ	29	EP	3		22:35	01.83		
EBH	SZ	45	EP	3		22:35	04.58		

July 10 1993 Time: 17:21 28.0 UTC Magnitude: 1.7 ML
Lat: 51.869N Lon: 4.920W Depth: 12.3 km
Grid Ref: 198.96 kmE 223.07 kmN RMS: 0.16 secs
Locality: HAVERFORDWEST, DYFED Quality: B
Comments: 7KM NE HAVERFORDWEST

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WLF	SZ	162	EP	3		17:21	53.33		
WLF	SZ	162	ES	2		17:22	12.23		
YRC	SZ	156	EP	3		17:21	53.63		
YRC	SZ	156	ES	3		17:22	11.06		
WPM	SZ	169	EP	3		17:21	54.62		
YLL	SZ	150	EP	2		17:21	52.34		
YLL	SZ	150	ES	3		17:22	09.60		
YRE	SZ	128	EP	3		17:21	49.11		
YRE	SZ	128	ES	3		17:22	04.29		
YRH	SZ	109	EP	2	C	17:21	46.11		
YRH	SZ	109	ES	3		17:21	58.70		
WFB	SZ	109	EP	2		17:21	45.76		
MCH	SN	133	EP	2		17:21	49.41		
MCH	SE	133	ES	2		17:22	04.49		
MCH	SE	133				17:22	06.29	11	0.16
MCH	SZ	133				17:22	02.86	48	0.13
HTR	SZ	116	EP	2		17:21	46.61		
HTR	SZ	116	ES	2		17:22	00.37		
HLM	SZ	157	EP	2		17:21	52.70		
WCB	SZ	170	EP	3		17:21	54.98		
WCB	SN	170				17:22	16.02	4	0.34
WCB	SE	170	ES	3		17:22	14.24		
WCB	SE	170				17:22	15.81	4	0.15
HTL	SN	102	ES	2		17:21	56.92		
HTL	SN	102				17:21	57.58	15	0.20
HTL	SE	102				17:21	58.02	14	0.30
HSA	SZ	55	EP	1		17:21	36.93		
HPE	SZ	13	IP		C	17:21	31.01		
HPE	SZ	13	ES	2		17:21	33.30		
HEX	SZ	118	EP	2		17:21	47.14		
ECP	SZ	105	EP	2		17:21	45.20		
ECP	SZ	105	ES	2		17:21	57.60		
ETA	SZ	127	EP	2		17:21	48.40		
ETA	SZ	127	ES	2		17:22	03.60		

July 12 1993 Time: 02:08 52.3 UTC Magnitude: 0.0 ML
Lat: 57.213N Lon: 5.450W Depth: 5.7 km
Grid Ref: 191.71 kmE 818.80 kmN RMS: 0.10 secs
Locality: SHIEL BRIDGE, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	19				02:08	58.79	6	0.18
KPL	SE	19	ES	2		02:08	58.68		
KPL	SE	19				02:08	58.78	10	0.16
KAR	SZ	40	EP	3		02:08	59.44		
KAC	SZ	33	EP	3		02:08	58.40		
KPL	SZ	19	EP	2		02:08	56.10		
KSB	SZ	2	IP		C	02:08	53.67		
KSB	SZ	2	ES	2		02:08	54.26		

July 12 1993 Time: 04:20 39.5 UTC Magnitude: 2.2 ML
Lat: 53.109N Lon: 1.791W Depth: 18.9 km
Grid Ref: 414.02 kmE 356.88 kmN RMS: 0.22 secs
Locality: HARTINGTON, DERBYSHIRE Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	118	EP	1	C	04:20	58.41		
SSP	SN	118	ES	2		04:21	12.27		
SSP	SN	118				04:21	13.23	34	0.13
SSP	SE	118				04:21	13.61	29	0.14
HAE	SZ	130	EP	1		04:21	00.32		
HAE	SZ	130	ES	2		04:21	15.19		
HCG	SZ	154	EP	1		04:21	03.16		
HCG	SZ	154	ES	2		04:21	21.12		
HGH	SZ	178	EP	1		04:21	06.81		
HLM	SZ	99	EP	1		04:20	55.32		
HLM	SZ	99	ES	2		04:21	07.31		
HTR	SZ	152	EP	1		04:21	03.09		
HTR	SZ	152	ES	4		04:21	21.47		
SBD	SZ	101	EP	1		04:20	55.80		
SBD	SZ	101	ES	2		04:21	07.95		
WPM	SZ	142	EP	2		04:21	02.29		
WPM	SZ	142	ES	3		04:21	17.29		
WPM	SZ	142				04:21	18.85	27	0.23
YLL	SZ	160	EP	2		04:21	03.48		
YRE	SZ	178	EP	1	D	04:21	05.96		
YRH	SZ	193	EP	1		04:21	07.85		
WFB	SZ	159	EP	2		04:21	03.75		
WFB	SZ	159	ES	3		04:21	21.65		
WFB	SZ	159				04:21	22.77	15	0.15
CWF	SZ	53	IP	1		04:20	48.31		
CWF	SN	53	ES	2		04:20	54.65		
CWF	SN	53				04:20	55.37	76	0.08
CWF	SE	53				04:20	55.24	93	0.06
KSY	SZ	82	EP	1		04:20	53.17		
KWE	SZ	11	IP		C	04:20	43.23		
KWE	SZ	11	ES	3		04:20	45.66		
KBI	SZ	24	IP	1	C	04:20	44.65		
KBI	SZ	24	ES	3		04:20	47.56		
KUF	SZ	109	EP	2		04:20	57.14		
HPK	SZ	95	EP	1		04:20	55.00		
HPK	SN	95	ES	2		04:21	06.28		
HPK	SN	95				04:21	06.94	291	0.19
HPK	SE	95				04:21	06.83	174	0.21

July 12 1993 Time: 21:53 5.4 UTC Magnitude: 2.9 ML
Lat: 53.742N Lon: 1.370E Depth: 7.4 km
Grid Ref: 622.20 kmE 432.59 kmN RMS: 0.35 secs
Locality: SOUTHERN NORTH SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	334	EP	1		21:53	52.35		
SSP	SN	334	ES	2		21:54	26.78		
SSP	SN	334				21:54	37.81	17	0.22
SSP	SE	334				21:54	41.20	17	0.22
HAE	SZ	325	IP	1	C	21:53	51.21		
HCG	SZ	373	EP	1		21:53	56.95		
HGH	SZ	367	EP	2		21:53	56.41		
HLM	SZ	316	EP	2		21:53	50.42		
HTR	SZ	363	EP	1		21:53	55.70		
SBD	SZ	322	EP	1		21:53	51.01		
GIM	SZ	388	EP	2		21:53	58.48		
GIM	SN	388				21:54	58.72	19	0.46
GIM	SE	388				21:54	54.15	8	0.42
GCD	SZ	368	IP	1	C	21:53	56.64		
XDE	SZ	329	IP	1	D	21:53	52.22		
CKE	SZ	307	EP	2		21:53	49.40		
CSF	SZ	312	EP	2		21:53	49.68		
CDU	SZ	307	EP	2		21:53	49.19		
LMI	SZ	311	EP	2		21:53	49.60		
LMI	SN	311				21:54	31.73	22	0.23
LMI	SE	311				21:54	34.48	28	0.23
EBL	SZ	363	EP	1		21:53	56.53		
ESY	SZ	353	EP	2		21:53	55.32		
BHH	SZ	334	EP	2		21:53	52.42		
BHH	SN	334				21:54	46.36	27	0.32
BHH	SE	334				21:54	48.06	22	0.31
BNA	SZ	352	EP	2		21:53	54.67		
BBO	SZ	321	EP	1	D	21:53	50.88		
BBO	SN	321				21:54	36.76	22	0.29
BBO	SE	321				21:54	38.77	34	0.27
BTA	SZ	294	EP	2		21:53	47.50		
BTA	SN	294				21:54	32.70	28	0.30
BTA	SE	294				21:54	36.03	58	0.88
BWH	SZ	363	EP	2		21:53	55.73		
CWF	SZ	211	EP	2		21:53	36.80		
CWF	SN	211	ES	2		21:54	00.59		
CWF	SN	211				21:54	01.73	88	0.17
CWF	SE	211				21:54	03.12	98	0.16
KSY	SZ	156	EP	2	C	21:53	30.30		
KSY	SZ	156	ES	2		21:53	48.25		
KBI	SZ	200	EP	1		21:53	35.05		
KUF	SZ	172	EP	2		21:53	32.76		
KUF	SZ	172	ES	3		21:53	51.82		
KWE	SZ	229	EP	2		21:53	38.59		
KWE	SZ	229	ES	3		21:54	03.24		

July 13 1993 Time: 18:29 3.8 UTC Magnitude: 1.4 ML
Lat: 50.109N Lon: 5.179W Depth: 6.4 km
Grid Ref: 172.76 kmE 28.10 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		C	18:29	05.35		
CR2	SN	7	ES			18:29	06.62		
CSA	SZ	34	EP	4		18:29	09.56		
CSA	SZ	34				18:29	09.61	48	0.07
CGH	SZ	7	IP		C	18:29	05.35		
CCO	SZ	3	IP		D	18:29	05.04		
CCA	SZ	9	IP		D	18:29	05.69		
CST	SZ	10	IP		C	18:29	05.76		
CST	SZ	10	ES	2		18:29	07.29		
CBW	SZ	6	IP		C	18:29	05.33		
CME	SZ	8	IP		C	18:29	05.48		
CGW	SZ	3	IP		C	18:29	05.04		
CGW	SZ	3	ES			18:29	05.97		
CTR	SZ	7	IP		C	18:29	05.35		
CRA	SZ	6	EP	2		18:29	05.34		
CRQ	SZ	7	EP	4		18:29	05.35		

July 13 1993 Time: 18:30 20.8 UTC Magnitude: 0.0 ML
Lat: 50.111N Lon: 5.180W Depth: 6.9 km
Grid Ref: 172.66 kmE 28.41 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	18:30	22.40		
CR2	SN	6	ES			18:30	23.65		
CR2	SN	6				18:30	23.72	8	0.04
CR2	SE	6				18:30	23.72	25	0.06
CGH	SZ	7	ES			18:30	23.76		
CCO	SZ	3	EP		D	18:30	22.09		
CCO	SZ	3	ES			18:30	23.10		
CCA	SZ	9	IP		D	18:30	22.73		
CCA	SZ	9	ES			18:30	24.22		
CST	SZ	9	IP		C	18:30	22.81		
CBW	SZ	6	IP		C	18:30	22.39		
CBW	SZ	6	ES			18:30	23.60		
CME	SN	7	ES			18:30	23.85		
CGW	SZ	3	IP		D	18:30	22.08		

July 13 1993 Time: 19:00 58.2 UTC Magnitude: 0.6 ML
Lat: 50.109N Lon: 5.176W Depth: 7.0 km
Grid Ref: 172.92 kmE 28.10 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		C	19:00	59.89		
CR2	SN	7	ES			19:01	01.15		
CR2	SN	7				19:01	01.18	46	0.09
CR2	SE	7				19:01	01.21	57	0.06
CGH	SZ	7	IP		C	19:00	59.87		
CCO	SZ	3	EP	2		19:00	59.59		
CCO	SZ	3	ES	2		19:01	00.67		
CCA	SZ	9	IP		D	19:01	00.22		
CST	SZ	10	IP		C	19:01	00.29		
CST	SZ	10	ES			19:01	01.82		
CBW	SZ	6	EP	2		19:00	59.87		
CBW	SZ	6	ES			19:01	01.09		
CME	SZ	8	IP		C	19:01	00.01		
CME	SN	8	ES			19:01	01.34		
CGW	SZ	3	IP		C	19:00	59.56		
CTR	SZ	7	IP		C	19:00	59.88		
CRA	SZ	6	EP	2	C	19:00	59.87		

July 15 1993 Time: 03:44 20.2 UTC Magnitude: 0.7 ML
Lat: 55.927N Lon: 3.075W Depth: 1.3 km
Grid Ref: 332.87 kmE 670.99 kmN RMS: 0.10 secs
Locality: MUSSELBURGH, LOTHIAN Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SN	7	ES	1		03:44	23.14		
EDI	SN	7				03:44	23.77	39	0.20
EDI	SE	7				03:44	23.49	39	0.15
EAU	SZ	25	IP		D	03:44	25.18		
EBL	SZ	17	IP		D	03:44	23.72		
ESY	SZ	29	IP	1	D	03:44	25.68		
EBH	SZ	45	EP	3		03:44	28.55		
ELO	SZ	72	EP	3		03:44	32.90		
EDI	SZ	7	IP		D	03:44	21.90		
BHH	SZ	93	EP	2		03:44	36.76		
BHH	SE	93	ES			03:44	48.11		
BNA	SZ	113	EP	2		03:44	39.45		
BNA	SZ	113	ES	3		03:44	53.24		
BTA	SZ	116	EP	3		03:44	40.92		
BBH	SZ	89	EP	3		03:44	36.07		
BBO	SE	133				03:45	02.35	2	0.19
BBO	SZ	133	EP	4		03:44	43.20		
BBO	SN	133				03:45	02.49	3	0.38

July 16 1993 Time: 20:00 13.1 UTC Magnitude: 0.6 ML
Lat: 55.924N Lon: 3.069W Depth: 0.6 km
Grid Ref: 333.20 kmE 670.61 kmN RMS: 0.02 secs
Locality: MUSSELBURGH, LOTHIAN Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SN	7	ESG	2		20:00	16.22		
EDI	SN	7				20:00	16.80	47	0.20
EDI	SE	7				20:00	16.63	55	0.17
EAU	SZ	25	IPG	1	D	20:00	18.23		
EAU	SZ	25	ESG	3		20:00	21.89		
EBL	SZ	17	IPG		D	20:00	16.77		
ESY	SZ	29	IPG			20:00	18.74		
EBH	SZ	45	EPG	2		20:00	21.60		
ELO	SZ	73	EPG	3		20:00	25.93		
EDI	SZ	7	IPG		D	20:00	14.95		

July 17 1993 Time: 11:06 51.8 UTC Magnitude: 1.4 ML
Lat: 54.189N Lon: 2.374W Depth: 4.7 km
Grid Ref: 375.63 kmE 477.15 kmN RMS: 0.15 secs
Locality: CHAPEL-LE-DALE, N YORKS Quality: B
Comments: 7KM NE OF INGLETON

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GIM	SZ	137	EP	3		11:07	14.50		
GIM	SN	137				11:07	31.38	7	0.13
GIM	SE	137				11:07	31.65	5	0.10
XDE	SZ	81	IP	1	C	11:07	05.49		
BBO	SN	83	ES	2		11:07	15.87		
BBO	SN	83				11:07	16.38	5	0.13
BBO	SE	83				11:07	16.25	7	0.15
CKE	SZ	65	EP	2		11:07	03.02		
CSF	SZ	64	EP	2		11:07	02.74		
CSF	SZ	64	ES	3		11:07	10.35		
CDU	SZ	56	IP	1	D	11:07	01.42		
BHH	SZ	115	EP	3		11:07	11.23		
BHH	SN	115	ES	3		11:07	24.54		
BHH	SN	115				11:07	25.51	16	0.29
BHH	SE	115				11:07	25.19	13	0.31
BBO	SZ	83	IP	1	D	11:07	05.96		
BBH	SZ	111	EP	2		11:07	10.68		
BDL	SZ	78	EP	2	D	11:07	05.32		
HPK	SZ	56	EP	3		11:07	01.71		
HPK	SN	56	ES	3		11:07	08.11		
HPK	SN	56				11:07	10.13	26	0.18
HPK	SE	56				11:07	09.25	20	0.18
LRN	SZ	46	IP		C	11:06	59.89		
LRN	SZ	46	ES	2		11:07	05.55		
ESK	SZ	136	EP	4		11:07	00000		
ESK	SN	136				11:07	31.38	3	0.09
ESK	SE	136				11:07	31.11	4	0.20
XSO	SZ	145	ES	3		11:07	32.63		
ECK	SZ	121	EP	3		11:07	12.03		
GCD	SZ	126	EP	3		11:07	12.88		
XAL	SZ	76	EP	3		11:07	05.31		
LMI	SZ	61	EP	3		11:07	02.58		
LMI	SN	61				11:07	10.09	12	0.13
LMI	SE	61	ES	3		11:07	09.25		
LMI	SE	61				11:07	10.78	16	0.16

July 18 1993 Time: 00:37 19.6 UTC Magnitude: 0.8 ML
Lat: 50.109N Lon: 5.178W Depth: 6.8 km
Grid Ref: 172.82 kmE 28.12 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		D	00:37	21.27		
CR2	SN	7	ES			00:37	22.52		
CSA	SZ	34	IP	4	C	00:37	25.48		
CGH	SZ	7	IP		C	00:37	21.24		
CGH	SZ	7				00:37	22.61	89	0.05
CCO	SZ	3	IP		D	00:37	20.95		
CCA	SZ	9	IP		D	00:37	21.59		
CCA	SZ	9	ES			00:37	23.09		
CST	SZ	10	IP		C	00:37	21.67		
CST	SZ	10	ES			00:37	23.19		
CBW	SZ	6	IP		C	00:37	21.24		
CBW	SZ	6	ES			00:37	22.46		
CME	SZ	8	IP		D	00:37	21.38		
CME	SN	8	ES			00:37	22.72		
CGW	SZ	3	EP	1	D	00:37	20.95		
CTR	SZ	7	EP	2	D	00:37	21.27		
CRA	SZ	6	IP	1	D	00:37	21.24		
CRQ	SZ	7	EP	4		00:37	21.28		

July 18 1993 Time: 00:38 50.6 UTC Magnitude: -0.2 ML
Lat: 50.111N Lon: 5.183W Depth: 6.8 km
Grid Ref: 172.47 kmE 28.32 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		D	00:38	52.23		
CR2	SN	6	ES			00:38	53.49		
CR2	SN	6				00:38	53.54	6	0.07
CR2	SE	6				00:38	53.54	13	0.07
CGH	SZ	7	ES			00:38	53.54		
CCO	SZ	3	IP		D	00:38	51.91		
CCA	SZ	9	IP		D	00:38	52.55		
CCA	SZ	9	ES			00:38	54.04		
CST	SZ	10	IP		C	00:38	52.64		
CST	SZ	10	ES			00:38	54.17		
CBW	SZ	6	IP		C	00:38	52.20		
CBW	SZ	6	ES			00:38	53.44		
CME	SN	7	ES			00:38	53.68		
CTR	SZ	6	ES			00:38	53.49		
CRA	SZ	6	IP		D	00:38	52.19		

July 18 1993 Time: 00:45 49.4 UTC Magnitude: 0.3 ML
Lat: 50.110N Lon: 5.176W Depth: 7.0 km
Grid Ref: 172.92 kmE 28.23 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SN	6	ES			00:45	52.32		
CR2	SN	6				00:45	52.40	17	0.05
CR2	SE	6				00:45	52.41	39	0.06
CGH	SZ	7	ES			00:45	52.36		
CCO	SZ	3	EP	1		00:45	50.78		

CCO	SZ	3	ES		00:45	51.81	
CCA	SZ	9	IP	D	00:45	51.42	
CCA	SZ	9	ES		00:45	52.88	
CST	SZ	10	IP	C	00:45	51.44	
CBW	SZ	6	ES		00:45	52.27	
CME	SN	7	ES		00:45	52.49	
CGW	SZ	4	EP		00:45	50.77	
CTR	SZ	6	ES		00:45	52.35	
CRA	SZ	6	IP	C	00:45	51.08	

July 18 1993 Time: 00:46 49.1 UTC Magnitude: 0.1 ML
Lat: 50.109N Lon: 5.175W Depth: 7.0 km
Grid Ref: 172.98 kmE 28.06 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		C	00:46	50.75		
CR2	SN	7	ES			00:46	52.02		
CR2	SN	7				00:46	52.07	12	0.06
CR2	SE	7				00:46	52.06	20	0.07
CGH	SZ	7	IP		D	00:46	50.73		
CCO	SZ	3	ES			00:46	51.51		
CCA	SZ	9	IP		D	00:46	51.08		
CST	SZ	10	IP		C	00:46	51.15		
CBW	SZ	6	IP		C	00:46	50.72		
CBW	SZ	6	ES			00:46	51.93		
CME	SZ	8	IP		C	00:46	50.87		
CME	SN	8	ES			00:46	52.21		
CGW	SZ	4	IP		C	00:46	50.42		
CTR	SZ	7	ES			00:46	52.03		

July 18 1993 Time: 00:47 40.3 UTC Magnitude: -0.6 ML
Lat: 50.110N Lon: 5.178W Depth: 6.8 km
Grid Ref: 172.82 kmE 28.19 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP	1	C	00:47	41.90		
CR2	SN	6	ES			00:47	43.17		
CR2	SN	6				00:47	43.23	2	0.04
CR2	SE	6				00:47	43.22	6	0.06
CGH	SZ	7	ES	2		00:47	43.20		
CCO	SZ	3	EP	1	D	00:47	41.59		
CCO	SZ	3	ES			00:47	42.66		
CST	SZ	10	ES	3		00:47	43.84		
CBW	SZ	6	EP		C	00:47	41.88		
CBW	SZ	6	ES			00:47	43.10		
CME	SZ	7	ES	2		00:47	43.30		
CGW	SZ	3	ES			00:47	42.59		
CTR	SZ	6	ES	1		00:47	43.19		
CCA	SZ	9	EP	1	D	00:47	42.24		

July 18 1993 Time: 01:27 20.6 UTC Magnitude: 0.2 ML
Lat: 50.110N Lon: 5.179W Depth: 7.1 km
Grid Ref: 172.72 kmE 28.25 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	01:27	22.26		
CR2	SN	6	ES			01:27	23.53		
CR2	SN	6				01:27	23.59	15	0.06
CR2	SE	6				01:27	23.58	37	0.06
CGH	SZ	7	EP			01:27	22.26		
CCO	SZ	3	IP		D	01:27	21.96		
CCO	SZ	3	ES			01:27	23.00		
CCA	SZ	9	IP		D	01:27	22.59		
CCA	SZ	9	ES			01:27	24.08		
CST	SZ	10	IP		C	01:27	22.66		
CST	SZ	10	ES			01:27	24.19		
CBW	SZ	6	IP		C	01:27	22.23		
CBW	SZ	6	ES			01:27	23.47		
CME	SZ	7	IP		D	01:27	22.40		
CME	SN	7	ES			01:27	23.72		
CTR	SZ	6	IP		C	01:27	22.25		
CRA	SZ	6	IP		D	01:27	22.28		

July 18 1993 Time: 02:14 41.1 UTC Magnitude: -0.1 ML
Lat: 50.110N Lon: 5.179W Depth: 7.1 km
Grid Ref: 172.75 kmE 28.27 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	02:14	42.73		
CR2	SN	6	ES			02:14	44.00		
CR2	SN	6				02:14	44.07	7	0.04
CR2	SE	6				02:14	44.06	17	0.05
CGH	SZ	7	ES			02:14	44.05		
CCO	SZ	3	IP		D	02:14	42.43		
CCO	SZ	3	ES			02:14	43.48		
CCA	SZ	9	EP		D	02:14	43.07		
CCA	SZ	9	ES			02:14	44.56		
CST	SZ	10	EP			02:14	43.13		
CST	SZ	10	ES			02:14	44.67		
CBW	SZ	6	IP		C	02:14	42.71		
CBW	SZ	6	ES			02:14	43.93		
CME	SZ	7	EP		C	02:14	42.88		
CME	SN	7	ES			02:14	44.19		
CTR	SZ	6	IP		C	02:14	42.72		
CTR	SZ	6	ES			02:14	44.01		
CRA	SZ	6	IP		C	02:14	42.73		

July 18 1993 Time: 02:18 4.6 UTC Magnitude: 0.0 ML
Lat: 50.109N Lon: 5.177W Depth: 7.2 km
Grid Ref: 172.90 kmE 28.12 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	EP	1	C	02:18	06.31		
CR2	SN	7	ES			02:18	07.55		
CR2	SN	7				02:18	07.61	9	0.04
CR2	SE	7				02:18	07.62	20	0.06
CGH	SZ	7	EP		D	02:18	06.27		
CCO	SZ	3	IP		D	02:18	05.97		
CCO	SZ	3	ES			02:18	07.04		
CST	SZ	10	IP		C	02:18	06.72		
CST	SZ	10	ES			02:18	08.23		
CBW	SZ	6	IP		C	02:18	06.26		
CME	SZ	8	EP		D	02:18	06.40		
CGW	SZ	3	EP		C	02:18	05.99		
CTR	SZ	7	ES			02:18	07.56		
CRA	SZ	6	IP		D	02:18	06.26		
CCA	SZ	9	IP		D	02:18	06.61		

July 18 1993 Time: 05:52 41.2 UTC Magnitude: -0.4 ML
Lat: 50.110N Lon: 5.175W Depth: 7.1 km
Grid Ref: 173.03 kmE 28.22 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP		C	05:52	42.86		
CR2	SN	6	ES			05:52	44.11		
CR2	SN	6				05:52	44.14	7	0.09
CR2	SE	6				05:52	44.18	5	0.06
CGH	SZ	7	ES			05:52	44.18		
CCO	SZ	3	EP	2		05:52	42.57		
CCO	SZ	3	ES			05:52	43.61		
CST	SZ	10	IP		C	05:52	43.26		
CST	SZ	10	ES	2		05:52	44.79		
CBW	SZ	6	EP			05:52	42.84		
CBW	SZ	6	ES			05:52	44.09		
CME	SZ	7	EP			05:52	42.97		
CME	SN	7	ES			05:52	44.31		
CTR	SZ	6	IP		C	05:52	42.85		
CRA	SZ	6	IP		C	05:52	42.83		

July 18 1993 Time: 05:52 49.5 UTC Magnitude: 0.2 ML
Lat: 50.110N Lon: 5.177W Depth: 7.1 km
Grid Ref: 172.90 kmE 28.21 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	05:52	51.22		
CR2	SN	6	ES			05:52	52.48		
CR2	SN	6				05:52	52.51	15	0.10
CR2	SE	6				05:52	52.53	25	0.06
CGH	SZ	7	ES			05:52	52.53		
CCO	SZ	3	IP		D	05:52	50.95		
CCO	SZ	3	ES			05:52	51.99		
CCA	SZ	9	EP	1	C	05:52	51.60		
CST	SZ	10	ES	2		05:52	53.15		
CBW	SZ	6	IP		C	05:52	51.19		
CBW	SZ	6	ES			05:52	52.42		
CME	SZ	7	IP		C	05:52	51.32		
CME	SN	7	ES			05:52	52.68		
CGW	SZ	3	EP	1	C	05:52	50.89		
CTR	SZ	6	IP		C	05:52	51.21		

July 18 1993 Time: 05:53 6.0 UTC Magnitude: -0.3 ML
Lat: 50.110N Lon: 5.174W Depth: 7.0 km
Grid Ref: 173.10 kmE 28.20 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	05:53	07.64		
CR2	SN	6	ES			05:53	08.92		
CR2	SN	6				05:53	09.00	4	0.06
CR2	SE	6				05:53	08.96	9	0.06
CGH	SZ	7	ES			05:53	08.95		
CCO	SZ	3	IP		C	05:53	07.36		
CCO	SZ	3	ES			05:53	08.38		
CST	SZ	10	ES			05:53	09.59		
CBW	SZ	6	IP		C	05:53	07.61		
CBW	SZ	6	ES			05:53	08.86		
CME	SN	8	ES			05:53	09.10		
CRA	SZ	6	ES			05:53	08.89		

July 18 1993 Time: 07:22 25.4 UTC Magnitude: -0.3 ML
Lat: 50.109N Lon: 5.175W Depth: 7.3 km
Grid Ref: 173.03 kmE 28.15 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CTR	SN	6	ES			07:22	28.44		
CME	SN	8	ES			07:22	28.62		
CR2	SZ	6	IP		C	07:22	27.16		
CR2	SN	6	ES			07:22	28.44		
CR2	SN	6				07:22	28.48	4	0.08
CR2	SE	6				07:22	28.46	11	0.07
CGH	SZ	7	ES	2		07:22	28.44		
CCO	SZ	3	ES			07:22	27.89		
CST	SZ	10	EP	2	C	07:22	27.52		
CST	SZ	10	ES	1		07:22	29.06		
CBW	SZ	6	EP	2	C	07:22	27.09		
CBW	SZ	6	ES			07:22	28.36		

July 18 1993 Time: 07:50 24.2 UTC Magnitude: 0.1 ML
Lat: 50.109N Lon: 5.177W Depth: 7.2 km
Grid Ref: 172.89 kmE 28.10 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		D	07:50	25.88		
CR2	SN	7	ES			07:50	27.14		
CR2	SN	7				07:50	27.19	12	0.04
CR2	SE	7				07:50	27.20	27	0.06
CGH	SZ	7	IP		C	07:50	25.85		
CCO	SZ	3	IP		D	07:50	25.56		
CCO	SZ	3	ES			07:50	26.62		
CCA	SZ	9	IP		D	07:50	26.20		
CST	SZ	10	IP		D	07:50	26.31		
CST	SZ	10	ES	2		07:50	27.81		
CBW	SZ	6	IP		C	07:50	25.85		
CBW	SZ	6	ES			07:50	27.08		
CME	SZ	8	IP		D	07:50	25.99		
CME	SN	8	ES			07:50	27.32		
CTR	SZ	7	EP	1	C	07:50	25.88		
CRA	SZ	6	IP		D	07:50	25.85		

July 18 1993 Time: 08:37 46.7 UTC Magnitude: 0.6 ML
Lat: 50.109N Lon: 5.177W Depth: 7.0 km
Grid Ref: 172.88 kmE 28.06 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		C	08:37	48.33		
CR2	SN	7	ES			08:37	49.59		
CSA	SZ	34	EP	4		08:37	52.52		
CSA	SZ	34				08:37	52.57	9	0.06
CGH	SZ	7	IP		D	08:37	48.30		
CGH	SZ	7				08:37	49.68	58	0.04
CCO	SZ	3	IP		C	08:37	48.05		
CCO	SZ	3	ES			08:37	49.08		
CCA	SZ	9	IP		D	08:37	48.66		
CST	SZ	10	IP		C	08:37	48.73		
CST	SZ	10	ES			08:37	50.26		
CBW	SZ	6	IP		C	08:37	48.29		
CBW	SZ	6	ES			08:37	49.53		
CME	SZ	8	IP		C	08:37	48.44		
CME	SN	8	ES			08:37	49.79		
CGW	SZ	3	IP		C	08:37	47.99		
CTR	SZ	7	IP		C	08:37	48.32		
CRA	SZ	6	IP		C	08:37	48.30		

July 18 1993 Time: 08:38 9.5 UTC Magnitude: -0.5 ML
Lat: 50.109N Lon: 5.172W Depth: 7.2 km
Grid Ref: 173.26 kmE 28.08 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SN	7	ES			08:38	12.43		
CR2	SN	7				08:38	12.52	3	0.07
CR2	SE	7				08:38	12.48	6	0.06
CGH	SZ	7	ES			08:38	12.48		
CCO	SZ	4	ES			08:38	11.97		
CBW	SZ	6	IP		C	08:38	11.14		
CBW	SZ	6	ES			08:38	12.38		
CTR	SZ	7	ES			08:38	12.50		

July 18 1993 Time: 10:11 34.2 UTC Magnitude: 0.3 ML
Lat: 50.110N Lon: 5.181W Depth: 7.3 km
Grid Ref: 172.55 kmE 28.22 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		D	10:11	35.88		
CR2	SN	6	ES			10:11	37.16		
CR2	SN	6				10:11	37.18	32	0.05
CR2	SE	6				10:11	37.22	27	0.05
CGH	SZ	7	EP	1	C	10:11	35.87		
CCO	SZ	3	EP	2		10:11	35.57		
CCA	SZ	9	IP		D	10:11	36.20		
CCA	SZ	9	ES			10:11	37.69		
CST	SZ	10	IP		D	10:11	36.28		
CBW	SZ	6	IP		C	10:11	35.85		
CBW	SZ	6	ES			10:11	37.17		
CME	SZ	7	IP		D	10:11	35.99		
CME	SN	7	ES			10:11	37.35		
CGW	SZ	3	IP		C	10:11	35.56		
CTR	SZ	7	EP	2	D	10:11	35.86		
CRA	SZ	6	EP	2	D	10:11	35.85		

July 18 1993 Time: 10:11 41.5 UTC Magnitude: 0.2 ML
Lat: 50.109N Lon: 5.183W Depth: 7.3 km
Grid Ref: 172.47 kmE 28.17 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	EP		D	10:11	43.21		
CR2	SN	7	ES			10:11	44.47		
CR2	SN	7				10:11	44.51	22	0.06
CR2	SE	7				10:11	44.56	20	0.04
CGH	SZ	7	EP	2		10:11	43.19		
CCO	SZ	3	EP	2	D	10:11	42.90		
CCO	SZ	3	ES			10:11	43.96		
CCA	SZ	9	IP		D	10:11	43.54		
CCA	SZ	9	ES			10:11	45.03		
CST	SZ	10	EP		D	10:11	43.61		
CST	SZ	10	ES			10:11	45.22		
CBW	SZ	7	IP		C	10:11	43.19		
CBW	SZ	7	ES			10:11	44.50		
CME	SZ	7	IP		D	10:11	43.33		
CTR	SZ	7	ES			10:11	44.49		
CRA	SZ	6	IP		D	10:11	43.19		

July 18 1993 Time: 10:12 37.1 UTC Magnitude: 0.6 ML
Lat: 50.109N Lon: 5.180W Depth: 6.9 km
Grid Ref: 172.64 kmE 28.11 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		D	10:12	38.74		
CR2	SN	7	ES			10:12	40.02		
CR2	SN	7				10:12	40.04	77	0.05
CR2	SE	7				10:12	40.09	44	0.04
CGH	SZ	7	EP	2	C	10:12	38.71		
CCO	SZ	3	IP		D	10:12	38.44		
CCA	SZ	9	IP		D	10:12	39.07		
CCA	SZ	9	ES			10:12	40.56		
CST	SZ	10	IP		D	10:12	39.15		
CBW	SZ	6	IP		C	10:12	38.72		
CME	SZ	8	IP		D	10:12	38.86		
CME	SN	8	ES			10:12	40.19		
CGW	SZ	3	IP		C	10:12	38.41		
CTR	SZ	7	IP		C	10:12	38.75		
CRA	SZ	6	EP		D	10:12	38.72		

July 18 1993 Time: 11:16 0.4 UTC Magnitude: -0.2 ML
Lat: 50.110N Lon: 5.173W Depth: 7.1 km
Grid Ref: 173.15 kmE 28.20 kmN RMS: 0.01 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP		C	11:16	02.06		
CR2	SN	6	ES			11:16	03.32		
CR2	SN	6				11:16	03.37	10	0.08
CR2	SE	6				11:16	03.42	7	0.07
CGH	SZ	7	ES			11:16	03.37		
CCO	SZ	3	ES			11:16	02.79		
CST	SZ	10	EP	2		11:16	02.41		
CBW	SZ	6	ES	1		11:16	03.25		
CME	SN	8	ES	1		11:16	03.55		
CRA	SN	6	ES			11:16	03.33		

July 18 1993 Time: 11:15 34.9 UTC Magnitude: 0.3 ML
Lat: 50.109N Lon: 5.177W Depth: 7.0 km
Grid Ref: 172.87 kmE 28.14 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	EP	2		11:15	36.56		
CR2	SZ	7				11:15	37.95	49	0.04
CR2	SN	7	ES			11:15	37.86		
CR2	SN	7				11:15	37.91	28	0.06
CR2	SE	7				11:15	37.94	98	0.06
CGH	SZ	7	EP	1	D	11:15	36.60		
CGH	SZ	7				11:15	37.97	26	0.05
CCO	SZ	3	ES			11:15	37.38		
CCO	SZ	3				11:15	37.47	58	0.04
CCA	SZ	9	IP		D	11:15	36.87		
CCA	SZ	9				11:15	38.47	6	0.05
CST	SZ	10	IP		C	11:15	37.03		
CST	SZ	10				11:15	38.78	48	0.04
CBW	SZ	6	IP		C	11:15	36.60		
CBW	SZ	6	ES			11:15	37.82		
CBW	SZ	6				11:15	37.96	37	0.06
CME	SZ	8	EP	2		11:15	36.88		
CME	SZ	8				11:15	38.19	26	0.06

CME	SN	8	ES			11:15	38.08		
CME	SN	8				11:15	38.16	15	0.05
CGW	SZ	3	EP	1	C	11:15	36.30		
CGW	SZ	3				11:15	37.35	17	0.09
CTR	SZ	7	IP		C	11:15	36.62		
CTR	SZ	7				11:15	38.00	19	0.10
CRA	SZ	6	EP	1	C	11:15	36.54		
CRA	SZ	6				11:15	38.02	20	0.05

July 18 1993 Time: 11:48 5.2 UTC Magnitude: 0.5 ML
Lat: 50.110N Lon: 5.181W Depth: 7.1 km
Grid Ref: 172.55 kmE 28.19 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP		D	11:48	06.88		
CR2	SN	6	ES			11:48	08.15		
CR2	SN	6				11:48	08.23	23	0.04
CR2	SE	6				11:48	08.20	66	0.06
CGH	SZ	7	ES			11:48	08.18		
CCO	SZ	3	IP		D	11:48	06.58		
CCO	SZ	3	ES			11:48	07.63		
CCA	SZ	9	IP		D	11:48	07.22		
CCA	SZ	9	ES			11:48	08.71		
CST	SZ	10	ES			11:48	08.83		
CBW	SZ	6	IP		C	11:48	06.85		
CME	SZ	7	IP		D	11:48	07.00		
CME	SN	7	ES			11:48	08.34		
CTR	SZ	7	IP		D	11:48	06.91		
CRA	SZ	6	IP		D	11:48	06.86		

July 18 1993 Time: 16:23 32.0 UTC Magnitude: -0.3 ML
Lat: 50.110N Lon: 5.175W Depth: 7.2 km
Grid Ref: 173.00 kmE 28.26 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP		C	16:23	33.67		
CR2	SN	6				16:23	34.96	8	0.09
CR2	SE	6	ES			16:23	34.94		
CR2	SE	6				16:23	34.97	7	0.07
CGH	SZ	7	ES			16:23	34.97		
CCO	SZ	3	ES			16:23	34.38		
CCO	SZ	3				16:23	34.59		
CST	SZ	10	EP		C	16:23	34.03		
CST	SZ	10	ES			16:23	35.57		
CBW	SZ	6	ES			16:23	34.84		
CTR	SN	6	ES			16:23	34.95		
CME	SZ	7	EP	2		16:23	33.74		
CME	SN	7	ES			16:23	35.11		

July 18 1993 Time: 16:26 1.6 UTC Magnitude: 0.7 ML
Lat: 50.110N Lon: 5.180W Depth: 6.9 km
Grid Ref: 172.65 kmE 28.26 kmN RMS: 0.01 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	16:26	03.27		
CR2	SN	6	ES			16:26	04.53		
CR2	SN	6				16:26	04.56	69	0.07
CR2	SE	6				16:26	04.60	56	0.04
CGH	SZ	7	IP	1	D	16:26	03.27		
CGH	SZ	7	ES			16:26	04.59		
CCO	SZ	3	EP	2	D	16:26	02.99		
CCA	SZ	9	IP		C	16:26	03.60		
CST	SZ	10	IP		C	16:26	03.68		
CST	SZ	10	ES			16:26	05.21		
CBW	SZ	6	IP		C	16:26	03.26		
CBW	SZ	6	ES			16:26	04.52		
CME	SZ	7	IP		C	16:26	03.39		
CME	SN	7	ES			16:26	04.73		
CGW	SZ	3	IP	1	C	16:26	02.96		
CTR	SZ	6	IP		C	16:26	03.27		
CRA	SZ	6	IP		C	16:26	03.25		

July 18 1993 Time: 17:09 0.4 UTC Magnitude: 1.8 ML
Lat: 50.109N Lon: 5.180W Depth: 6.8 km
Grid Ref: 172.68 kmE 28.14 kmN RMS: 0.01 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		C	17:09	02.01		
CR2	SN	7	ES			17:09	03.25		
CSA	SZ	34	IP	4	C	17:09	06.23		
CGH	SZ	7	IP		D	17:09	02.01		
CCO	SZ	3	IP		C	17:09	01.71		
CCA	SZ	9	IP		C	17:09	02.35		
CST	SZ	10	IP		C	17:09	02.42		
CBW	SZ	6	IP		C	17:09	02.00		
CPZ	SZ	29	IP	4	D	17:09	05.35		
CPZ	SZ	29				17:09	08.93	180	0.08
CME	SZ	8	IP		C	17:09	02.13		
CME	SN	8	ES			17:09	03.45		
CGW	SZ	3	IP		D	17:09	01.69		
CTR	SZ	7	IP		C	17:09	02.01		
CRA	SZ	6	IP		C	17:09	01.99		
CRQ	SZ	7	IP		C	17:09	02.01		

July 18 1993 Time: 17:09 45.3 UTC Magnitude: 1.2 ML
Lat: 50.108N Lon: 5.176W Depth: 6.9 km
Grid Ref: 172.94 kmE 28.02 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		C	17:09	46.94		
CR2	SE	7	ES			17:09	48.19		
CGH	SZ	6	EP		D	17:09	46.90		
CCO	SZ	3	EP		D	17:09	46.62		
CCO	SZ	3	ES			17:09	47.66		
CCA	SZ	9	IP		C	17:09	47.26		
CST	SZ	10	IP		C	17:09	47.34		
CST	SZ	10	ES			17:09	48.88		
CBW	SZ	6	IP		C	17:09	46.91		
CBW	SZ	6	ES			17:09	48.14		
CME	SZ	8	IP		D	17:09	47.05		
CME	SN	8	ES			17:09	48.40		
CGW	SZ	3	EP		C	17:09	46.62		
CTR	SZ	7	IP		C	17:09	46.94		
CRA	SZ	6	IP		D	17:09	46.91		
CRQ	SZ	7	EP			17:09	46.96		
CSA	SZ	34	IP	4	C	17:09	51.14		
CSA	SZ	34				17:09	51.21	29	0.12

July 18 1993 Time: 19:37 39.9 UTC Magnitude: -0.3 ML
Lat: 50.110N Lon: 5.175W Depth: 7.5 km
Grid Ref: 173.03 kmE 28.20 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SN	6	ES			19:37	42.93		
CR2	SN	6				19:37	42.96	5	0.10
CR2	SE	6				19:37	42.97	8	0.08
CGH	SZ	7	ES			19:37	42.97		
CCO	SZ	3	ES			19:37	42.42		
CBW	SZ	6	EP		C	19:37	41.60		
CBW	SZ	6	ES			19:37	42.87		
CTR	SN	6	ES			19:37	42.93		
CME	SE	7	ES			19:37	43.14		
CST	SZ	10	EP	1		19:37	42.04		
CST	SZ	10	ES			19:37	43.56		

July 18 1993 Time: 20:06 10.0 UTC Magnitude: 0.2 ML
Lat: 50.109N Lon: 5.179W Depth: 7.2 km
Grid Ref: 172.71 kmE 28.16 kmN RMS: 0.01 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	20:06	11.70		
CR2	SN	6	ES			20:06	12.95		
CR2	SN	6				20:06	12.98	12	0.06
CR2	SE	6				20:06	13.04	37	0.05
CGH	SZ	7	IP		D	20:06	11.70		
CCO	SZ	3	IP		D	20:06	11.42		
CCO	SZ	3	ES			20:06	12.45		
CCA	SZ	9	IP		C	20:06	12.03		
CST	SZ	10	IP		C	20:06	12.10		
CBW	SZ	6	IP		C	20:06	11.68		
CME	SZ	8	IP		C	20:06	11.82		
CME	SN	8	ES			20:06	13.15		
CGW	SZ	3	EP	2		20:06	11.38		
CTR	SZ	7	IP		C	20:06	11.69		

July 18 1993 Time: 20:57 5.0 UTC Magnitude: 0.0 ML
Lat: 50.110N Lon: 5.179W Depth: 7.1 km
Grid Ref: 172.77 kmE 28.18 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	20:57	06.67		
CR2	SN	6	ES			20:57	07.92		
CR2	SN	6				20:57	07.96	15	0.06
CR2	SE	6				20:57	07.99	11	0.04
CGH	SZ	7	IP		D	20:57	06.65		
CCO	SZ	3	ES			20:57	07.45		
CCA	SZ	9	IP		C	20:57	07.00		
CCA	SZ	9	ES			20:57	08.47		
CST	SZ	10	IP		C	20:57	07.07		
CST	SZ	10	ES			20:57	08.61		
CBW	SZ	6	IP		C	20:57	06.64		
CBW	SZ	6	ES			20:57	07.89		
CME	SZ	8	IP		C	20:57	06.78		
CME	SN	8	ES			20:57	08.13		
CGW	SZ	3	IP		D	20:57	06.34		
CTR	SZ	7	IP		C	20:57	06.66		
CRA	SZ	6	IP		C	20:57	06.65		

July 18 1993 Time: 21:05 24.0 UTC Magnitude: 0.2 ML
Lat: 50.110N Lon: 5.180W Depth: 6.9 km
Grid Ref: 172.66 kmE 28.18 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	21:05	25.66		
CR2	SN	6	ES			21:05	26.92		
CR2	SN	6				21:05	26.95	23	0.07
CR2	SE	6				21:05	26.99	21	0.05
CGH	SZ	7	IP		D	21:05	25.66		
CCO	SZ	3	EP	2		21:05	25.38		
CCA	SZ	9	IP		C	21:05	26.00		
CCA	SZ	9	ES			21:05	27.47		
CST	SZ	10	IP		C	21:05	26.08		
CBW	SZ	6	IP		C	21:05	25.64		
CBW	SZ	6	ES			21:05	26.90		
CME	SZ	7	IP		C	21:05	25.79		
CME	SN	7	ES			21:05	27.12		
CGW	SZ	3	IP		D	21:05	25.34		
CTR	SZ	7	IP		C	21:05	25.65		
CRA	SZ	6	IP		C	21:05	25.64		

July 18 1993 Time: 21:42 2.0 UTC Magnitude: 0.0 ML
Lat: 50.109N Lon: 5.179W Depth: 7.1 km
Grid Ref: 172.74 kmE 28.14 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		C	21:42	03.66		
CR2	SN	7	ES			21:42	04.91		
CR2	SN	7				21:42	04.95	18	0.06
CR2	SE	7				21:42	04.98	12	0.06
CGH	SZ	7	IP		D	21:42	03.65		
CCO	SZ	3	EP		C	21:42	03.36		
CCA	SZ	9	IP		C	21:42	03.98		
CST	SZ	10	IP		C	21:42	04.07		
CBW	SZ	6	ES			21:42	04.89		
CME	SZ	8	IP		C	21:42	03.77		
CME	SN	8	ES			21:42	05.11		
CTR	SZ	7	EP	2		21:42	03.65		
CRA	SZ	6	EP	1	C	21:42	03.63		

July 18 1993 Time: 21:48 11.3 UTC Magnitude: -0.4 ML
Lat: 50.110N Lon: 5.177W Depth: 7.3 km
Grid Ref: 172.88 kmE 28.21 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CTR	SE	6	ES	1		21:48	14.36		
CRA	SN	6	ES	2		21:48	14.30		
CR2	SN	6	ES			21:48	14.33		
CR2	SN	6				21:48	14.42	3	0.09
CR2	SE	6				21:48	14.39	10	0.08
CGH	SZ	7	ES	2		21:48	14.36		
CCO	SZ	3	ES			21:48	13.78		
CST	SZ	10	EP	2		21:48	13.46		
CST	SZ	10	ES			21:48	14.97		
CBW	SZ	6	EP	1		21:48	13.01		
CBW	SZ	6	ES			21:48	14.28		

July 18 1993 Time: 22:00 42.4 UTC Magnitude: -0.8 ML
Lat: 50.109N Lon: 5.174W Depth: 7.5 km
Grid Ref: 173.06 kmE 28.13 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP		C	22:00	44.14		
CR2	SN	6	ES			22:00	45.43		
CR2	SN	6				22:00	45.48	1	0.04
CR2	SE	6				22:00	45.46	4	0.06
CGH	SZ	7	ES	2		22:00	45.45		
CCO	SZ	3	ES			22:00	44.93		
CST	SZ	10	EP	3	C	22:00	44.54		
CST	SZ	10	ES	2		22:00	46.10		
CBW	SZ	6	EP	2	C	22:00	44.11		
CBW	SZ	6	ES			22:00	45.38		
CME	SN	8	ES			22:00	45.60		

July 18 1993 Time: 22:00 46.0 UTC Magnitude: 0.1 ML
Lat: 50.110N Lon: 5.180W Depth: 7.0 km
Grid Ref: 172.70 kmE 28.20 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	22:00	47.65		
CR2	SN	6	ES			22:00	48.91		
CR2	SN	6				22:00	48.94	12	0.10
CR2	SE	6				22:00	48.96	21	0.06
CGH	SZ	7	ES			22:00	48.94		
CCO	SZ	3	ES			22:00	48.41		
CCA	SZ	9	ES			22:00	49.45		
CST	SZ	10	IP		C	22:00	48.04		
CBW	SZ	6	IP		C	22:00	47.62		
CBW	SZ	6	ES			22:00	48.88		
CME	SZ	7	IP		C	22:00	47.76		
CME	SN	7	ES			22:00	49.09		
CGW	SZ	3	EP	2	C	22:00	47.32		
CTR	SZ	6	IP		C	22:00	47.63		
CRA	SZ	6	EP		C	22:00	47.62		

July 18 1993 Time: 22:54 50.2 UTC Magnitude: 0.0 ML
Lat: 50.109N Lon: 5.181W Depth: 6.9 km
Grid Ref: 172.57 kmE 28.15 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		C	22:54	51.90		
CR2	SN	7	ES			22:54	53.18		
CR2	SN	7				22:54	53.22	10	0.04
CR2	SE	7				22:54	53.24	15	0.05
CGH	SZ	7	IP		D	22:54	51.89		
CCA	SZ	9	IP	1	D	22:54	52.24		
CST	SZ	10	ES	1		22:54	53.86		
CBW	SZ	7	IP		C	22:54	51.88		
CBW	SZ	7	ES			22:54	53.14		
CME	SN	8	ES			22:54	53.35		
CGW	SZ	3	EP	2		22:54	51.53		
CRA	SZ	6	EP	2	C	22:54	51.88		
CTR	SZ	7	ES			22:54	53.17		
CCO	SZ	3	EP	1	D	22:54	51.65		

July 18 1993 Time: 23:24 34.6 UTC Magnitude: 0.2 ML
Lat: 50.111N Lon: 5.180W Depth: 6.9 km
Grid Ref: 172.68 kmE 28.33 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP	1		23:24	36.23		
CR2	SN	6	ES			23:24	37.48		
CR2	SN	6				23:24	37.52	21	0.06
CR2	SE	6				23:24	37.54	18	0.06
CGH	SZ	7	ES			23:24	37.56		
CCO	SZ	3	IP		D	23:24	35.91		
CCO	SZ	3	ES			23:24	36.97		
CCA	SZ	9	EP		D	23:24	36.56		
CCA	SZ	9	ES			23:24	38.01		
CST	SZ	9	IP		C	23:24	36.62		
CST	SZ	9	ES			23:24	38.15		
CBW	SZ	6	IP		D	23:24	36.21		
CBW	SZ	6	ES			23:24	37.43		
CME	SZ	7	EP		D	23:24	36.36		
CME	SN	7	ES			23:24	37.68		
CGW	SZ	3	IP		D	23:24	35.90		
CTR	SZ	6	ES	2		23:24	37.51		
CRA	SZ	6	ES			23:24	37.46		

July 18 1993 Time: 23:54 58.4 UTC Magnitude: 0.2 ML
Lat: 50.111N Lon: 5.179W Depth: 7.2 km
Grid Ref: 172.77 kmE 28.33 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP	1		23:55	00.15		
CR2	SN	6	ES			23:55	01.41		
CR2	SN	6				23:55	01.44	13	0.05
CR2	SE	6				23:55	01.47	31	0.07
CGH	SZ	7	ES			23:55	01.47		
CCO	SZ	3	ES			23:55	00.89		
CCA	SZ	9	IP		D	23:55	00.46		
CCA	SZ	9	ES			23:55	01.95		
CST	SZ	9	ES			23:55	02.07		
CBW	SZ	6	ES			23:55	01.35		
CME	SZ	7	IP		D	23:55	00.25		
CME	SN	7	ES			23:55	01.56		
CGW	SZ	3	IP		C	23:54	59.81		
CTR	SZ	6	ES			23:55	01.41		
CRA	SZ	6	IP		D	23:55	00.10		

July 19 1993 Time: 01:11 54.4 UTC Magnitude: -0.5 ML
Lat: 50.111N Lon: 5.176W Depth: 7.2 km
Grid Ref: 172.94 kmE 28.36 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CTR	SE	6	ES	1		01:11	57.37		
CRA	SN	6	ES	2		01:11	57.30		
CR2	SZ	6	EP		C	01:11	56.09		
CR2	SN	6				01:11	57.38	2	0.08
CR2	SE	6	ES			01:11	57.35		
CR2	SE	6				01:11	57.39	9	0.08
CCO	SZ	3	ES			01:11	56.79		
CST	SZ	9	EP	2		01:11	56.44		
CST	SZ	9	ES			01:11	57.99		
CBW	SZ	6	IP		C	01:11	56.02		
CBW	SZ	6	ES			01:11	57.29		

July 19 1993 Time: 02:20 29.0 UTC Magnitude: -0.5 ML
Lat: 50.107N Lon: 5.174W Depth: 6.9 km
Grid Ref: 173.10 kmE 27.89 kmN RMS: 0.01 secs
Locality: CONSTANTINE, CORNWALL Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CTR	SE	7	ES			02:20	31.93		
CRA	SN	7	ES	1		02:20	31.87		
CR2	SZ	7	EP	2	C	02:20	30.64		
CR2	SN	7	ES			02:20	31.90		
CR2	SN	7				02:20	31.92	5	0.09
CR2	SE	7				02:20	31.91	4	0.08
CCO	SZ	4	ES			02:20	31.35		
CBW	SZ	6	IP		C	02:20	30.57		
CBW	SZ	6	EP			02:20	30.57		
CBW	SZ	6	ES			02:20	31.82		

July 19 1993 Time: 04:35 12.7 UTC Magnitude: 0.9 ML
Lat: 50.109N Lon: 5.178W Depth: 7.0 km
Grid Ref: 172.78 kmE 28.16 kmN RMS: 0.01 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	04:35	14.40		
CR2	SN	6	ES			04:35	15.65		
CSA	SZ	34	IP	4	C	04:35	18.60		
CSA	SZ	34				04:35	18.65	15	0.07
CGH	SZ	7	IP		D	04:35	14.40		
CCO	SZ	3	IP		C	04:35	14.10		
CCA	SZ	9	IP		C	04:35	14.74		
CST	SZ	10	IP		C	04:35	14.81		
CBW	SZ	6	IP		C	04:35	14.38		
CBW	SZ	6	ES			04:35	15.64		
CME	SZ	8	IP		C	04:35	14.51		
CME	SN	8	ES			04:35	15.85		
CGW	SZ	3	IP		D	04:35	14.09		
CTR	SZ	7	IP		C	04:35	14.39		
CRA	SZ	6	IP		C	04:35	14.38		
CRQ	SZ	6	IP	4	C	04:35	14.39		

July 19 1993 Time: 04:53 50.5 UTC Magnitude: 0.1 ML
Lat: 50.110N Lon: 5.181W Depth: 7.2 km
Grid Ref: 172.59 kmE 28.18 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	04:53	52.20		
CR2	SN	6	ES			04:53	53.47		
CR2	SN	6				04:53	53.51	20	0.06
CR2	SE	6				04:53	53.55	14	0.05
CGH	SZ	7	EP		D	04:53	52.19		
CCO	SZ	3	EP		D	04:53	51.92		
CCO	SZ	3	ES			04:53	52.96		
CCA	SZ	9	IP		C	04:53	52.54		
CCA	SZ	9	ES			04:53	54.02		
CST	SZ	10	IP		C	04:53	52.60		
CBW	SZ	6	EP		C	04:53	52.18		
CBW	SZ	6	ES			04:53	53.45		
CME	SZ	7	IP		C	04:53	52.33		
CME	SN	7	ES			04:53	53.68		
CTR	SZ	7	IP		C	04:53	52.20		
CRA	SZ	6	IP		C	04:53	52.19		

July 19 1993 Time: 05:12 2.2 UTC Magnitude: -0.6 ML
Lat: 50.110N Lon: 5.177W Depth: 6.7 km
Grid Ref: 172.85 kmE 28.19 kmN RMS: 0.01 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP			05:12	03.85		
CR2	SN	6	ES			05:12	05.10		
CR2	SN	6				05:12	05.13	2	0.06
CR2	SE	6				05:12	05.15	5	0.09
CGH	SZ	7	ES			05:12	05.14		
CBW	SZ	6	ES			05:12	05.04		
CTR	SN	6	ES			05:12	05.12		
CRA	SN	6	ES			05:12	05.05		

July 19 1993 Time: 06:20 29.7 UTC Magnitude: -0.3 ML
Lat: 50.110N Lon: 5.173W Depth: 7.5 km
Grid Ref: 173.14 kmE 28.22 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP			06:20	31.50		
CR2	SN	6	IS			06:20	32.76		
CR2	SN	6				06:20	32.79	6	0.10
CR2	SE	6				06:20	32.80	9	0.08
CGH	SZ	7	ES			06:20	32.81		
CCO	SZ	3	ES			06:20	32.26		
CBW	SZ	6	ES			06:20	32.70		
CTR	SE	6	ES			06:20	32.78		
CME	SN	7	ES			06:20	32.97		
CRA	SN	6	ES			06:20	32.73		
CST	SZ	10	ES			06:20	33.39		

July 19 1993 Time: 07:53 1.5 UTC Magnitude: -0.2 ML
Lat: 50.110N Lon: 5.177W Depth: 7.4 km
Grid Ref: 172.90 kmE 28.21 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	07:53	03.30		
CR2	SN	6	ES			07:53	04.57		
CR2	SN	6				07:53	04.60	12	0.09
CR2	SE	6				07:53	04.60	7	0.08
CGH	SZ	7	EP			07:53	03.26		
CGH	SZ	7	ES			07:53	04.62		
CCO	SZ	3	ES			07:53	04.03		
CST	SZ	10	EP		C	07:53	03.67		
CST	SZ	10	ES			07:53	05.20		
CBW	SZ	6	ES			07:53	04.51		
CTR	SN	6	ES			07:53	04.59		
CME	SN	7	ES			07:53	04.79		
CRA	SN	6	ES			07:53	04.55		

July 19 1993 Time: 09:55 48.9 UTC Magnitude: -0.2 ML
Lat: 50.111N Lon: 5.181W Depth: 7.8 km
Grid Ref: 172.56 kmE 28.32 kmN RMS: 0.04 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CTR	SE	6	ES			09:55	52.01		
CME	SN	7	ES			09:55	52.18		
CRA	SN	6	ES	1		09:55	52.04		
CR2	SN	6				09:55	52.03	8	0.08
CR2	SE	6	ES			09:55	52.01		
CR2	SE	6				09:55	52.05	11	0.09
CGH	SZ	7	EP	2	D	09:55	50.68		
CCO	SZ	3	EP			09:55	50.44		
CCO	SZ	3	ES			09:55	51.46		
CCA	SZ	9	ES	2		09:55	52.52		
CST	SZ	10	ES			09:55	52.70		
CBW	SZ	6	IP		C	09:55	50.66		

July 19 1993 Time: 16:26 53.6 UTC Magnitude: -0.2 ML
Lat: 50.110N Lon: 5.173W Depth: 7.2 km
Grid Ref: 173.15 kmE 28.25 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	16:26	55.30		
CR2	SN	6	ES			16:26	56.58		
CR2	SN	6				16:26	56.62	8	0.09
CR2	SE	6				16:26	56.63	8	0.09
CGH	SZ	7	ES			16:26	56.63		
CCO	SZ	3	ES			16:26	56.05		
CST	SZ	10	EP		C	16:26	55.68		
CST	SZ	10	ES			16:26	57.13		
CBW	SZ	6	EP		D	16:26	55.26		
CBW	SZ	6	ES			16:26	56.52		
CTR	SN	6	ES			16:26	56.60		
CME	SZ	7	EP		C	16:26	55.44		
CME	SN	7	ES			16:26	56.79		
CRA	SZ	6	EP		C	16:26	55.30		
CRA	SN	6	ES	1		16:26	56.56		

July 19 1993 Time: 17:24 5.3 UTC Magnitude: 1.0 ML
Lat: 50.109N Lon: 5.179W Depth: 7.0 km
Grid Ref: 172.73 kmE 28.16 kmN RMS: 0.01 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	17:24	06.95		
CSA	SZ	34	ES	4		17:24	11.16		
CSA	SZ	34				17:24	11.21	21	0.07
CGH	SZ	7	IP		D	17:24	06.95		
CCO	SZ	3	IP		C	17:24	06.64		
CCA	SZ	9	IP		C	17:24	07.28		
CST	SZ	10	IP		C	17:24	07.35		
CBW	SZ	6	IP		C	17:24	06.93		
CBW	SZ	6	ES			17:24	08.19		
CME	SZ	8	IP		C	17:24	07.06		
CME	SN	8	ES			17:24	08.41		
CGW	SZ	3	IP		D	17:24	06.63		
CTR	SZ	7	IP		C	17:24	06.94		
CRA	SZ	6	IP		C	17:24	06.93		
CRQ	SZ	7	IP	4	C	17:24	06.94		

July 19 1993 Time: 17:26 44.6 UTC Magnitude: -0.3 ML
Lat: 50.108N Lon: 5.177W Depth: 7.0 km
Grid Ref: 172.89 kmE 28.04 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CTR	SE	7	ES			17:26	47.56		
CME	SE	8	ES			17:26	47.77		
CRA	SN	6	ES			17:26	47.52		
CR2	SZ	7	EP		C	17:26	46.29		
CR2	SN	7	ES			17:26	47.53		
CR2	SN	7				17:26	47.57	3	0.09
CR2	SE	7				17:26	47.58	14	0.08

CGH	SZ	6	EP	2	D	17:26	46.23		
CCO	SZ	3	ES	2		17:26	46.97		
CST	SZ	10	EP	1	C	17:26	46.64		
CST	SZ	10	ES			17:26	48.20		
CBW	SZ	6	EP		C	17:26	46.23		
CBW	SZ	6	ES			17:26	47.48		

July 19 1993 Time: 17:44 8.2 UTC Magnitude: -0.4 ML
Lat: 50.110N Lon: 5.176W Depth: 7.4 km
Grid Ref: 172.94 kmE 28.25 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SN	6	ES	1		17:44	11.17		
CR2	SN	6				17:44	11.21	7	0.09
CR2	SE	6				17:44	11.24	5	0.07
CGH	SZ	7	ES			17:44	11.22		
CCO	SZ	3	ES			17:44	10.64		
CST	SZ	10	EP		C	17:44	10.28		
CST	SZ	10	ES			17:44	11.80		
CBW	SZ	6	ES			17:44	11.11		
CTR	SN	6	ES	1		17:44	11.20		
CME	SN	7	ES			17:44	11.38		
CRA	SN	6	ES			17:44	11.15		

July 20 1993 Time: 00:17 35.0 UTC Magnitude: 0.1 ML
Lat: 50.110N Lon: 5.180W Depth: 7.2 km
Grid Ref: 172.65 kmE 28.24 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	00:17	36.70		
CR2	SN	6	ES			00:17	37.97		
CR2	SN	6				00:17	38.00	14	0.09
CR2	SE	6				00:17	38.01	20	0.06
CGH	SZ	7	ES			00:17	38.02		
CCO	SZ	3	ES			00:17	37.48		
CCA	SZ	9	EP		C	00:17	37.03		
CCA	SZ	9	ES			00:17	38.51		
CST	SZ	10	IP		C	00:17	37.10		
CBW	SZ	6	IP		C	00:17	36.66		
CBW	SZ	6	ES			00:17	37.94		
CME	SZ	7	IP		C	00:17	36.82		
CME	SN	7	ES			00:17	38.15		
CGW	SZ	3	EP	2		00:17	36.36		
CTR	SZ	6	IP		C	00:17	36.69		
CRA	SZ	6	IP		C	00:17	36.68		

July 20 1993 Time: 00:17 45.8 UTC Magnitude: -0.5 ML
Lat: 50.110N Lon: 5.177W Depth: 7.5 km
Grid Ref: 172.89 kmE 28.21 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	00:17	47.58		
CR2	SN	6	ES			00:17	48.85		
CR2	SN	6				00:17	48.87	3	0.07
CR2	SE	6				00:17	48.92	7	0.06
CGH	SZ	7	ES	2		00:17	48.91		
CCO	SZ	3	ES	1		00:17	48.35		
CST	SZ	10	ES			00:17	49.52		
CBW	SZ	6	EP		C	00:17	47.56		
CBW	SZ	6	ES			00:17	48.83		
CME	SN	7	ES			00:17	49.05		

July 20 1993 Time: 00:17 57.0 UTC Magnitude: 0.3 ML
Lat: 50.110N Lon: 5.179W Depth: 7.1 km
Grid Ref: 172.73 kmE 28.25 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	00:17	58.62		
CR2	SN	6	ES			00:17	59.90		
CR2	SN	6				00:17	59.93	31	0.07
CR2	SE	6				00:17	59.95	22	0.05
CGH	SZ	7	ES	2		00:17	59.94		
CCO	SZ	3	EP		C	00:17	58.33		
CCA	SZ	9	IP		C	00:17	58.95		
CST	SZ	10	EP		C	00:17	59.01		
CST	SZ	10	ES			00:18	00.56		
CBW	SZ	6	IP		C	00:17	58.61		
CBW	SZ	6	ES			00:17	59.87		
CME	SZ	7	IP		C	00:17	58.74		
CME	SN	7	ES			00:18	00.09		
CTR	SZ	6	IP		C	00:17	58.62		
CRA	SZ	6	IP		C	00:17	58.61		

July 20 1993 Time: 03:34 26.7 UTC Magnitude: -0.1 ML
Lat: 50.110N Lon: 5.183W Depth: 6.9 km
Grid Ref: 172.46 kmE 28.23 kmN RMS: 0.04 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		D	03:34	28.32		
CR2	SN	6	ES			03:34	29.58		
CR2	SN	6				03:34	29.61	13	0.06
CR2	SE	6				03:34	29.65	9	0.05
CME	SZ	7	IP		D	03:34	28.45		
CME	SN	7	ES			03:34	29.77		
CRA	SZ	6	EP	2		03:34	28.29		
CGH	SZ	7	IP		D	03:34	28.31		
CCO	SZ	3	EP		D	03:34	28.06		
CCA	SZ	9	IP		D	03:34	28.65		
CCA	SZ	9	ES			03:34	30.13		
CST	SZ	10	IP		D	03:34	28.72		
CBW	SZ	7	IP		C	03:34	28.29		

July 20 1993 Time: 03:48 24.8 UTC Magnitude: 1.6 ML
Lat: 52.937N Lon: 5.486W Depth: 7.6 km
Grid Ref: 165.74 kmE 343.46 kmN RMS: 0.20 secs
Locality: IRISH SEA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	171	EP	2		03:48	52.10		
SSP	SN	171				03:49	13.59	8	0.21
SSP	SE	171	ES	2		03:49	11.71		
SSP	SE	171				03:49	13.98	9	0.18
HCG	SZ	142	EP	2		03:48	48.03		
SBD	SZ	150	EP	2		03:48	48.89		
SBD	SZ	150	ES	2		03:49	06.16		
DLF	SZ	81	EP	1	D	03:48	38.14		
DLF	SN	81	ES	2		03:48	47.55		
DLF	SN	81				03:48	48.95	22	0.13
DLF	SE	81				03:48	48.40	32	0.09
DMU	SZ	143	EP	1		03:48	47.91		
DCN	SZ	128	EP	1		03:48	45.64		
WLF	SZ	83	EP	1	C	03:48	38.48		
YRC	SZ	70	IP	1	D	03:48	36.64		
WPM	SZ	112	EP	2		03:48	43.13		
YLL	SZ	91	EP	2		03:48	39.91		
YLL	SZ	91	ES	2		03:48	50.15		
YRE	SZ	71	EP	3		03:48	36.75		
YRH	SZ	59	EP	2		03:48	34.78		
YRH	SZ	59	ES	2		03:48	41.49		
WFB	SZ	102	EP	1		03:48	41.67		
WIM	SZ	145	EP	1		03:48	47.75		
HPE	SZ	121	ES	3		03:48	58.78		
WME	SZ	94	EP	3		03:48	40.38		
WCB	SZ	80	IP	1	C	03:48	38.03		
WCB	SN	80				03:48	49.37	9	0.12
WCB	SE	80	ES	2		03:48	47.76		
WCB	SE	80				03:48	49.22	9	0.23

July 20 1993 Time: 11:36 33.3 UTC Magnitude: 1.0 ML
Lat: 50.109N Lon: 5.178W Depth: 6.8 km
Grid Ref: 172.79 kmE 28.16 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	11:36	34.90		
CR2	SN	6	ES			11:36	36.16		
CGH	SZ	7	IP		C	11:36	34.88		
CCO	SZ	3	IP		D	11:36	34.58		
CCA	SZ	9	IP		D	11:36	35.22		
CCA	SZ	9	ES			11:36	36.70		
CST	SZ	10	IP		C	11:36	35.30		
CST	SZ	10	ES			11:36	36.83		
CBW	SZ	6	IP		C	11:36	34.87		
CBW	SZ	6	ES			11:36	36.10		
CME	SZ	8	IP		C	11:36	35.02		
CME	SN	8	ES			11:36	36.35		
CGW	SZ	3	EP			11:36	34.58		
CTR	SZ	7	IP		C	11:36	34.89		
CRA	SZ	6	IP		C	11:36	34.88		
CSA	SZ	34	EP	4		11:36	39.11		
CSA	SZ	34				11:36	39.16	20	0.08

July 20 1993 Time: 11:36 38.8 UTC Magnitude: 0.4 ML
Lat: 50.111N Lon: 5.181W Depth: 6.7 km
Grid Ref: 172.58 kmE 28.35 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	11:36	40.40		
CR2	SN	6	ES			11:36	41.65		
CGH	SZ	7	ES			11:36	41.72		
CGH	SZ	7				11:36	41.76	35	0.05
CCO	SZ	3	EP	1	D	11:36	40.16		
CCA	SZ	9	EP		D	11:36	40.74		
CCA	SZ	9	ES			11:36	42.22		
CST	SZ	10	IP		C	11:36	40.80		
CST	SZ	10	ES			11:36	42.33		
CBW	SZ	6	IP		C	11:36	40.39		
CBW	SZ	6	ES			11:36	41.62		
CME	SZ	7	EP		D	11:36	40.54		
CME	SN	7	ES			11:36	41.85		
CGW	SZ	3	EP		D	11:36	40.06		
CTR	SZ	6	IP		C	11:36	40.40		

July 20 1993 Time: 11:37 11.4 UTC Magnitude: 0.2 ML
Lat: 50.111N Lon: 5.179W Depth: 7.4 km
Grid Ref: 172.74 kmE 28.40 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP			11:37	13.10		
CR2	SN	6	ES			11:37	14.42		
CR2	SN	6				11:37	14.61	14	0.10
CR2	SE	6				11:37	14.63	32	0.06
CGH	SZ	7	EP	2		11:37	13.15		
CCO	SZ	3	EP		D	11:37	12.85		
CCA	SZ	9	EP		D	11:37	13.44		
CST	SZ	9	EP		D	11:37	13.53		
CST	SZ	9	ES			11:37	15.03		
CBW	SZ	6	IP		C	11:37	13.10		
CME	SN	7	ES			11:37	14.56		
CTR	SZ	6	EP		D	11:37	13.13		

July 20 1993 Time: 12:54 0.7 UTC Magnitude: 0.1 ML
Lat: 50.111N Lon: 5.186W Depth: 6.8 km
Grid Ref: 172.21 kmE 28.37 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP		D	12:54	02.34		
CR2	SN	6	ES			12:54	03.57		
CR2	SN	6				12:54	03.76	9	0.04
CR2	SE	6				12:54	03.65	26	0.07
CGH	SZ	7	ES			12:54	03.67		
CCO	SZ	3	IP		D	12:54	02.01		
CCA	SZ	9	IP		D	12:54	02.65		
CCA	SZ	9	ES			12:54	04.13		
CST	SZ	10	IP		C	12:54	02.72		
CBW	SZ	7	IP		C	12:54	02.31		
CME	SZ	7	EP		C	12:54	02.46		
CME	SN	7	ES			12:54	03.77		
CRA	SZ	6	EP	2	C	12:54	02.31		

July 20 1993 Time: 14:31 58.1 UTC Magnitude: -0.1 ML
Lat: 50.111N Lon: 5.177W Depth: 7.1 km
Grid Ref: 172.89 kmE 28.32 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CTR	SE	6	ES			14:32	01.03		
CME	SE	7	ES			14:32	01.24		
CR2	SZ	6	EP	2	C	14:31	59.77		
CR2	SN	6	ES	1		14:32	01.03		
CR2	SN	6				14:32	01.06	7	0.10
CR2	SE	6				14:32	01.07	14	0.07
CGH	SZ	7	ES	2		14:32	01.10		
CCO	SZ	3	ES	1		14:32	00.47		
CST	SZ	9	EP	2	C	14:32	00.13		
CST	SZ	9	ES	1		14:32	01.66		
CBW	SZ	6	EP	1	C	14:31	59.71		
CBW	SZ	6	ES	1		14:32	00.97		

July 20 1993 Time: 16:50 10.7 UTC Magnitude: 1.2 ML
Lat: 50.110N Lon: 5.179W Depth: 6.8 km
Grid Ref: 172.77 kmE 28.18 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	16:50	12.36		
CR2	SN	6	ES			16:50	13.60		
CSA	SZ	34	IP	4	C	16:50	16.57		
CSA	SZ	34				16:50	16.60	32	0.07
CGH	SZ	7	IP		C	16:50	12.35		
CCO	SZ	3	IP		D	16:50	12.04		
CCA	SZ	9	IP		D	16:50	12.68		
CCA	SZ	9	ES			16:50	14.17		
CST	SZ	10	IP		C	16:50	12.76		
CBW	SZ	6	IP		C	16:50	12.33		
CBW	SZ	6	ES			16:50	13.56		
CME	SZ	7	IP		C	16:50	12.47		
CME	SN	7	ES			16:50	13.80		
CGW	SZ	3	IP		D	16:50	12.04		
CTR	SZ	6	IP		C	16:50	12.35		
CRA	SZ	6	EP	2	C	16:50	12.35		

July 20 1993 Time: 23:38 56.4 UTC Magnitude: -0.3 ML
Lat: 50.111N Lon: 5.184W Depth: 7.2 km
Grid Ref: 172.38 kmE 28.32 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP	2	C	23:38	58.01		
CR2	SN	6	ES	2		23:38	59.27		
CR2	SN	6				23:38	59.39	6	0.08
CR2	SE	6				23:38	59.42	6	0.05
CGH	SZ	7	ES			23:38	59.43		
CCO	SZ	3	ES			23:38	58.79		
CCA	SZ	9	ES			23:38	59.91		
CST	SZ	10	IP		C	23:38	58.50		
CST	SZ	10	ES			23:39	00.04		
CBW	SZ	7	EP			23:38	58.06		
CME	SN	7	ES			23:38	59.56		
CTR	SZ	6	IP		C	23:38	58.10		

July 20 1993 Time: 23:48 43.4 UTC Magnitude: -0.4 ML
Lat: 50.110N Lon: 5.180W Depth: 7.1 km
Grid Ref: 172.65 kmE 28.27 kmN RMS: 0.04 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	23:48	45.07		
CR2	SN	6	ES			23:48	46.31		
CR2	SN	6				23:48	46.36	7	0.06
CR2	SE	6				23:48	46.39	4	0.06
CGH	SZ	7	ES			23:48	46.39		
CCO	SZ	3	IP		C	23:48	44.80		
CCO	SZ	3	ES			23:48	45.83		
CCA	SZ	9	ES			23:48	46.87		
CST	SZ	10	ES			23:48	46.99		
CBW	SZ	6	EP	2	D	23:48	45.06		
CBW	SZ	6	ES			23:48	46.30		
CME	SZ	7	IP		C	23:48	45.18		
CME	SN	7	ES			23:48	46.52		
CTR	SZ	6	IP		C	23:48	45.06		
CRA	SZ	6	IP		C	23:48	45.05		

July 22 1993 Time: 07:50 39.8 UTC Magnitude: 0.0 ML
Lat: 57.309N Lon: 6.067W Depth: 3.3 km
Grid Ref: 155.11 kmE 831.60 kmN RMS: 0.08 secs
Locality: ISLE OF SKYE, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	25	ES	2		07:50	47.87		
KPL	SN	25				07:50	48.02	5	0.14
KPL	SE	25				07:50	48.49	4	0.11
KNR	SZ	86	EP	3		07:50	54.42		
KAR	SZ	46	IP		C	07:50	47.98		
KSB	SZ	40	EP	2		07:50	47.20		
KPL	SZ	25	EP	2		07:50	44.48		
KAC	SZ	51	EP	2		07:50	48.85		
KAC	SZ	51	ES	3		07:50	55.01		

July 24 1993 Time: 13:26 33.2 UTC Magnitude: 0.1 ML
Lat: 51.839N Lon: 2.886W Depth: 9.2 km
Grid Ref: 338.96 kmE 216.00 kmN RMS: 0.26 secs
Locality: ABERGAVENNY, GWENT Quality: D
Comments: 8KM EAST OF ABERGAVENNY

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	19	ES	2		13:26	39.84		
MCH	SN	19				13:26	39.99	10	0.08
MCH	SE	19				13:26	40.02	8	0.07
MCH	SZ	19	IP		D	13:26	36.58		
HAE	SZ	32	ES	3		13:26	43.03		
HGH	SZ	23	IP	1	D	13:26	37.72		
HGH	SZ	23	ES	2		13:26	40.23		

July 25 1993 Time: 11:12 28.9 UTC Magnitude: 0.3 ML
Lat: 52.726N Lon: 4.392W Depth: 11.2 km
Grid Ref: 238.48 kmE 317.02 kmN RMS: 0.09 secs
Locality: CARDIGAN BAY, WALES Quality: C
Comments: 17KM SOUTH OF PWLLHELI

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
YLL	SZ	48	EP	2		11:12	37.12		
YRE	SZ	28	IP		D	11:12	33.91		
YRE	SZ	28	ES	2		11:12	37.67		
YRH	SZ	20	IP		D	11:12	32.82		
YRH	SZ	20	ES	2		11:12	35.16		
YRH	SZ	20				11:12	35.25	14	0.08
WFB	SZ	24	EP	1		11:12	33.41		

July 25 1993 Time: 12:41 20.5 UTC Magnitude: 0.7 ML
Lat: 56.221N Lon: 5.155W Depth: 0.5 km
Grid Ref: 204.41 kmE 707.63 kmN RMS: 0.06 secs
Locality: INVERARAY, STRATHCLYDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EAB	SZ	51	EP	2		12:41	29.93		
EAB	SZ	51	ES	3		12:41	36.79		
EAB	SZ	51				12:41	30.92	4	0.08
PGB	SZ	62	EP	3		12:41	31.48		
PCA	SZ	81	EP	3		12:41	34.08		
PMS	SZ	49	EP	2		12:41	29.65		
PMS	SZ	49	ES	3		12:41	36.33		
PMS	SZ	49				12:41	36.90	5	0.25

July 27 1993 Time: 04:03 36.2 UTC Magnitude: 1.3 ML
Lat: 57.501N Lon: 5.375W Depth: 4.0 km
Grid Ref: 197.82 kmE 850.70 kmN RMS: 0.10 secs
Locality: GLEN CARRON, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	25	ES	2		04:03	44.08		
KPL	SN	25				04:03	44.33	77	0.16
KPL	SE	25				04:03	44.35	94	0.16
KNR	SZ	80	EP	3		04:03	49.77		

KAR	SZ	71	EP	2	C	04:03	48.36		
KSB	SZ	33	IP	1	D	04:03	42.19		
KSB	SZ	33	ES	3		04:03	46.29		
KSK	SZ	80	EP	3		04:03	49.59		
KPL	SZ	25	IP	1	D	04:03	40.89		
KAC	SZ	5	IP	1	C	04:03	37.55		
KAC	SZ	5	ES	3		04:03	38.38		
MVH	SZ	85	EP	3		04:03	50.55		
MVH	SZ	85	ES	3		04:04	00.84		
MCD	SZ	128	EP	3		04:03	56.92		
MCD	SN	128	ES	3		04:04	12.02		
MCD	SN	128				04:04	14.86	17	1.14
MCD	SE	128				04:04	14.62	15	1.13
MDO	SZ	61	EP	3		04:03	46.91		

July 27 1993 Time: 06:07 35.9 UTC Magnitude: 2.9 ML
Lat: 53.256N Lon: 3.763E Depth: 0.3 km
Grid Ref: 784.21 kmE 388.76 kmN RMS: 0.36 secs
Locality: SOUTHERN NORTH SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WFB	SZ	528	EP	2		06:08	48.72		
BHH	SZ	499	EP	2		06:08	45.12		
BWH	SZ	529	EP	3		06:08	48.63		
BBH	SZ	484	EP	3		06:08	43.07		
KWE	SZ	377	EP	2		06:08	29.74		
ENN	SZ	314	EP	3		06:08	21.50		
WTS	SZ	250	EP	3		06:08	13.60		
DOU	SZ	377	EP	2		06:08	28.70		
SNF	SZ	307	IPD	2		06:08	21.01		
BBO	SN	488				06:09	36.27	10	0.42
BBO	SE	488	ES	3		06:09	32.18		
BBO	SE	488				06:09	36.33	11	0.31
BBO	SZ	488	EP	3		06:08	43.84		
EAU	SZ	548	EP	3		06:08	51.13		
EBL	SZ	523	EP	3		06:08	47.51		
ESY	SZ	508	EP	2		06:08	45.33		
EBH	SZ	574	EP	3		06:08	54.22		
ELO	SZ	598	EP	3		06:08	57.39		
CWF	SZ	345	EP	3		06:08	24.83		
CWF	SN	345	ES	2		06:09	02.41		
CWF	SN	345				06:09	17.50	22	0.20
CWF	SE	345				06:09	09.00	13	0.11
SSP	SZ	473	EP	2		06:08	42.05		
SSP	SN	473				06:09	37.22	8	0.90
SSP	SE	473	ES	3		06:09	29.44		
SSP	SE	473				06:09	29.89	6	0.96
HAE	SZ	449	EP	3		06:08	38.84		
HCG	SZ	511	EP	2		06:08	46.76		
HLM	SZ	455	EP	3		06:08	38.88		
HLM	SZ	455	ES	3		06:09	26.01		
SBD	SZ	472	EP	2		06:08	41.29		
HTR	SZ	493	EP	3		06:08	44.31		
HTR	SZ	493	ES	3		06:09	34.28		
APA	SZ	187	EP	3		06:08	05.55		
APA	SZ	187	ES	3		06:08	27.55		
AWH	SZ	202	EP	3		06:08	07.35		
AWH	SZ	202	ES	3		06:08	30.57		
AWI	SZ	163	EP	3		06:08	02.43		

July 28 1993 Time: 03:52 40.0 UTC Magnitude: 1.9 ML
Lat: 51.564N Lon: 2.296W Depth: 8.6 km
Grid Ref: 379.45 kmE 185.11 kmN RMS: 0.22 secs
Locality: CHIPPING SODBURY, AVON Quality: C
Comments: 8KM NE CHIPPING SODBURY

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
YLL	SZ	217	EP	1		03:53	11.74		
YRE	SZ	214	EP	1		03:53	11.76		
YRH	SZ	213	IP	1	C	03:53	11.74		
YRH	SZ	213	ES	2		03:53	34.57		
WFB	SZ	173	EP	2		03:53	06.56		
WFB	SZ	173	ES	2		03:53	26.42		
SSP	SZ	110	IP	1	C	03:52	58.10		
SSP	SN	110				03:53	13.55	20	0.16
SSP	SE	110	ES	2		03:53	10.97		
SSP	SE	110				03:53	14.69	24	0.15
CR2	SZ	255	EP	2		03:53	16.10		
CR2	SN	255				03:53	43.80	6	0.08
CR2	SE	255	ES	2		03:53	42.45		
CR2	SE	255				03:53	43.90	4	0.04
CCO	SZ	259	EP	2		03:53	16.49		
CST	SZ	253	EP	2		03:53	15.70		
CBW	SZ	253	EP	1		03:53	15.83		
CME	SZ	256	EP	2		03:53	16.10		
CME	SN	256	ES	2		03:53	41.95		
CTR	SZ	255	EP	2		03:53	16.08		
CRA	SZ	256	EP			03:53	16.31		
MCH	SN	68				03:52	59.76	46	0.20
MCH	SE	68	ES	2		03:52	59.36		
MCH	SE	68				03:52	59.63	42	0.23
MCH	SZ	68	IP	1	D	03:52	51.25		
SBD	SZ	163	EP	1		03:53	05.78		
SBD	SZ	163	ES	2		03:53	24.66		
HAE	SZ	56	IP	1	D	03:52	49.51		
HCG	SZ	126	EP	1		03:53	00.63		
HGH	SZ	36	IP		D	03:52	46.63		
HTR	SZ	88	EP	1	C	03:52	54.37		
HLM	SZ	114	EP	2		03:52	58.15		
HLM	SZ	114	ES	2		03:53	11.19		
HTL	SN	165				03:53	26.74	9	0.22
HTL	SE	165				03:53	25.77	12	0.25
HTL	SZ	165	EP	2		03:53	05.51		
HSA	SZ	130	EP	2		03:53	01.04		
HEX	SZ	119	EP	2		03:52	59.12		

July 30 1993 Time: 22:34 12.5 UTC Magnitude: 0.4 ML
Lat: 50.109N Lon: 5.185W Depth: 6.9 km
Grid Ref: 172.34 kmE 28.14 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		C	22:34	14.17		
CR2	SN	7	ES			22:34	15.45		
CR2	SN	7				22:34	15.51	20	0.04
CR2	SE	7				22:34	15.50	51	0.08
CGH	SZ	7	IP		D	22:34	14.16		
CCO	SZ	3	ES			22:34	14.94		
CCA	SZ	9	IP		C	22:34	14.51		
CCA	SZ	9	ES			22:34	15.99		
CST	SZ	10	IP		C	22:34	14.58		
CST	SZ	10	ES			22:34	16.12		
CBW	SZ	7	IP		C	22:34	14.15		
CBW	SZ	7	ES			22:34	15.42		
CME	SZ	8	IP		C	22:34	14.29		
CME	SN	8	ES			22:34	15.62		
CTR	SZ	7	IP		C	22:34	14.16		
CRA	SZ	6	IP		C	22:34	14.15		

July 30 1993 Time: 22:39 54.6 UTC Magnitude: 0.2 ML
Lat: 55.935N Lon: 3.062W Depth: 2.7 km
Grid Ref: 333.66 kmE 671.83 kmN RMS: 0.10 secs
Locality: MUSSELBURGH, LOTHIAN Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SZ	8	IP		D	22:39	56.35		
EDI	SN	8	ES	2		22:39	57.51		
EDI	SN	8				22:39	57.87	18	0.16
EDI	SE	8				22:39	58.00	21	0.20
EAU	SZ	26	EP	2		22:39	59.62		
EAU	SZ	26	ES	3		22:40	03.31		
EBL	SZ	18	EP	2		22:39	58.06		
ESY	SZ	28	EP	3		22:39	59.81		

August 1 1993 Time: 13:40 38.7 UTC Magnitude: 0.0 ML
Lat: 53.278N Lon: 4.621W Depth: 11.3 km
Grid Ref: 225.27 kmE 378.94 kmN RMS: 0.04 secs
Locality: HOLY ISLAND, GWYNEDD Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WCB	SN	12				13:40	43.47	6	0.05
WCB	SE	12	ES	1		13:40	43.42		
WCB	SE	12				13:40	43.45	17	0.06
WME	SZ	25	EP	1	C	13:40	43.35		
WME	SZ	25	ES	2		13:40	46.38		
WLF	SZ	15	IP		C	13:40	41.90		
YRC	SZ	4	IP		D	13:40	40.77		
YLL	SZ	34	EP	2		13:40	44.77		
YRE	SZ	36	EP	2		13:40	44.90		
WCB	SZ	12	EP	1	D	13:40	41.49		

August 3 1993 Time: 21:22 5.2 UTC Magnitude: 1.2 ML
Lat: 56.340N Lon: 6.142W Depth: 7.4 km
Grid Ref: 144.04 kmE 724.14 kmN RMS: 0.07 secs
Locality: MULL, STRATHCLYDE Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	115				21:22	40.53	3	0.19
KPL	SE	115	ES	3		21:22	37.48		
KPL	SE	115				21:22	40.34	6	0.29
KSB	SZ	106	EP	3		21:22	22.49		
KSB	SZ	106	ES	2		21:22	35.15		
KAC	SZ	139	EP	3		21:22	27.19		
KAC	SZ	139	ES	3		21:22	43.67		
KPL	SZ	115	EP	2		21:22	23.91		

August 6 1993 Time: 11:13 39.9 UTC Magnitude: 1.0 ML
Lat: 52.410N Lon: 2.173W Depth: 7.6 km
Grid Ref: 388.21 kmE 279.13 kmN RMS: 0.18 secs
Locality: WEST HAGLEY, W MIDLANDS Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	73				11:14	01.37	5	0.18
MCH	SE	73	ES	2		11:14	01.07		
MCH	SE	73				11:14	03.47	6	0.19
MCH	SZ	73	EP	3		11:13	52.37		
HAE	SZ	49	EP	3		11:13	48.31		
HCG	SZ	101	EP	2		11:13	56.90		

HGH	SZ	96	EP	2		11:13	56.52		
HTR	SZ	84	EP	2		11:13	53.65		
HLM	SZ	50	IP	1	C	11:13	48.41		
HLM	SZ	50	ES	2		11:13	54.85		

August 7 1993 Time: 02:07 3.3 UTC Magnitude: 0.2 ML
Lat: 50.594N Lon: 4.723W Depth: 3.1 km
Grid Ref: 207.27 kmE 80.73 kmN RMS: 0.12 secs
Locality: TINTAGEL, CORNWALL Quality: D
Comments: SOUTH OF TINTAGEL

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	57	EP			02:07	13.08		
CSA	SZ	29	IP		C	02:07	08.82		
CSA	SZ	29				02:07	08.87	5	0.07
CCO	SZ	61	ES	3		02:07	21.59		
CCA	SZ	58	EP			02:07	13.65		
CST	SZ	54	EP	2		02:07	12.97		
CBW	SZ	57	EP	2		02:07	13.22		
CRA	SZ	58	EP	3		02:07	13.76		
CR2	SN	57				02:07	24.79	1	0.03
CR2	SE	57	ES			02:07	20.63		
CR2	SE	57				02:07	22.32	1	0.04

August 7 1993 Time: 03:50 9.9 UTC Magnitude: 1.0 ML
Lat: 49.556N Lon: 4.963W Depth: 1.1 km
Grid Ref: 185.72 kmE -34.01 kmN RMS: 0.09 secs
Locality: LIZARD POINT, CORNWALL Quality: D
Comments: SE OF LIZARD POINT

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	70	EP	2		03:50	22.18		
CR2	SN	70				03:50	32.79	6	0.10
CR2	SE	70	ES			03:50	31.13		
CR2	SE	70				03:50	32.75	6	0.13
CGH	SZ	57	EP			03:50	20.37		
CCA	SZ	73	EP	2		03:50	22.66		
CST	SZ	73	EP	2		03:50	22.74		
CBW	SZ	67	EP	2		03:50	21.90		
CPZ	SZ	80	EP	2		03:50	23.86		
CGW	SZ	63	EP			03:50	21.00		
CRA	SZ	70	EP			03:50	22.18		

August 7 1993 Time: 14:12 28.8 UTC Magnitude: 0.8 ML
Lat: 56.127N Lon: 3.732W Depth: 0.3 km
Grid Ref: 292.37 kmE 694.02 kmN RMS: 0.06 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F
FIRST OF A DOUBLE EVENT

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EAU	SZ	36	IPG	1	D	14:12	35.83		
EBL	SZ	58	EPG	2	D	14:12	39.37		
EAB	SZ	38	EPG	2		14:12	36.20		
EBH	SZ	19	IPG	1	D	14:12	32.95		
EBH	SZ	19	ESG	2		14:12	36.01		
EDU	SZ	65	EP	2	D	14:12	40.66		
ELO	SZ	38	EPG	2	D	14:12	36.21		
PMS	SZ	71	EP	3		14:12	41.50		
EDI	SZ	41	IPG		D	14:12	36.66		
EDI	SN	41				14:12	44.40	9	0.19
EDI	SE	41	ESG	3		14:12	42.43		
EDI	SE	41				14:12	44.99	10	0.23

August 7 1993 Time: 14:12 34.2 UTC Magnitude: 1.0 ML
Lat: 56.134N Lon: 3.737W Depth: 0.3 km
Grid Ref: 292.07 kmE 694.88 kmN RMS: 0.29 secs
Locality: CLACKMANNAN, CENTRAL Quality: C
Comments: C/F
SECOND OF A DOUBLE EVENT

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EAU	SZ	37	IP	1	C	14:12	40.99		
EAU	SZ	37	ES	3		14:12	46.63		
EBL	SZ	59	EP	3		14:12	44.88		
EAB	SZ	38	EPG	2		14:12	41.46		
EAB	SZ	38	ES	3		14:12	47.23		
EBH	SZ	19	EPG	2		14:12	38.81		
EBH	SZ	19	ES	3		14:12	41.72		
ELO	SZ	38	EP	2		14:12	41.11		
EDI	SZ	42	EP	2	D	14:12	42.34		
EDI	SN	42				14:12	52.28	35	1.07
EDI	SE	42	ES	2		14:12	48.09		
EDI	SE	42				14:12	50.06	13	0.24

August 7 1993 Time: 23:34 37.7 UTC Magnitude: 1.6 ML
Lat: 53.496N Lon: 2.333W Depth: 19.6 km
Grid Ref: 377.90 kmE 399.96 kmN RMS: 0.25 secs
Locality: SALFORD, GTR MANCHESTER Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CSF	SZ	122	ES	3		23:35	10.15		
CDU	SZ	109	EP	4		23:34	55.24		
CDU	SZ	109	ES	3		23:35	08.05		
SBD	SZ	90	EP	3		23:34	51.89		
SBD	SZ	90	ES	2		23:35	03.56		
HLM	SZ	115	ES	2		23:35	09.53		
KSY	SZ	131	EP	2		23:34	58.20		
KSY	SZ	131	ES	3		23:35	13.00		
WCB	SE	148	ES	3		23:35	16.91		
WME	SZ	132	EP	2		23:34	57.64		
WLF	SZ	139	EP	2		23:34	58.80		
WLF	SZ	139	ES	2		23:35	14.49		
YRC	SZ	152	EP	2		23:35	00.75		
WPM	SZ	108	IP	1	D	23:34	54.82		
YLL	SZ	129	EP	2		23:34	57.66		
YLL	SZ	129	ES	2		23:35	12.74		
YRE	SZ	151	EP	2		23:35	00.77		
YRH	SZ	170	EP	2		23:35	03.36		
WCB	SZ	148	EP	3		23:35	00.51		
HPK	SZ	69	EP	2		23:34	49.46		
HPK	SN	69	ES	2		23:34	57.66		
HPK	SN	69				23:34	58.10	71	0.18
HPK	SE	69				23:34	58.10	60	0.20
MCH	SN	173	ES	2		23:35	23.69		
LMI	SZ	103	EP	3		23:34	54.50		
LMI	SZ	103	ES	3		23:35	06.10		
CWF	SN	109	ES	2		23:35	07.32		
CWF	SN	109				23:35	09.32	4	0.09
CWF	SE	109				23:35	09.81	5	0.16

August 8 1993 Time: 11:59 19.2 UTC Magnitude: 1.6 ML
Lat: 55.465N Lon: 5.099W Depth: 7.6 km
Grid Ref: 204.12 kmE 623.42 kmN RMS: 0.09 secs
Locality: ARRAN, STRATHCLYDE Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PGB	SE	55	ES	2		11:59	35.34		
PGB	SE	55				11:59	36.80	20	0.17
PMS	SZ	48	EP	2		11:59	27.52		
PMS	SZ	48	ES	3		11:59	33.36		
BNA	SZ	109	EP	3		11:59	37.00		
BNA	SZ	109	ES	3		11:59	50.12		
BWH	SZ	97	EP	3		11:59	35.15		
BWH	SZ	97	ES	3		11:59	46.50		
BBO	SZ	143	EP	3		11:59	42.16		
GMK	SZ	34	IP	1	C	11:59	25.43		
GMK	SZ	34	ES	3		11:59	29.70		
GAL	SN	71				11:59	40.19	16	0.17
GAL	SE	71	ES	2		11:59	39.69		
GAL	SE	71				11:59	39.80	25	0.07
GAL	SZ	71	EP	3		11:59	31.16		
GCL	SZ	79	EP	2		11:59	32.12		
PGB	SN	55				11:59	35.89	34	0.12
PGB	SZ	55	EP	3		11:59	28.69		
EDI	SN	131	ES	3		11:59	55.43		
EAB	SZ	94	EP	2		11:59	34.59		
EAB	SZ	94	ES	3		11:59	45.62		
EBH	SZ	132	EP	3		11:59	40.65		
EBH	SZ	132	ES	3		11:59	55.96		

August 11 1993 Time: 03:36 1.6 UTC Magnitude: -0.2 ML
Lat: 54.496N Lon: 3.254W Depth: 8.2 km
Grid Ref: 318.76 kmE 511.91 kmN RMS: 0.12 secs
Locality: BUTTERMERE, CUMBRIA Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BBO	SN	27	ES	3		03:36	10.15		
BBO	SN	27				03:36	10.81	3	0.14
BBO	SE	27				03:36	12.65	2	0.04
LMI	SZ	31	ES	3		03:36	11.11		
LMI	SZ	31				03:36	11.65		
XDE	SZ	15	ES	3		03:36	07.10		
XDE	SZ	15				03:36	08.24		
CKE	SZ	14	IP	1	D	03:36	04.80		
CKE	SZ	14	ES	2		03:36	06.71		
CKE	SZ	14				03:36	06.88		
CSF	SZ	5	IP	1	C	03:36	03.67		
CSF	SZ	5	ES	2		03:36	04.77		
CDU	SZ	18	EP	2		03:36	05.30		
CDU	SZ	18	ES	3		03:36	07.68		

August 11 1993 Time: 23:08 21.2 UTC Magnitude: 1.7 ML
Lat: 55.368N Lon: 1.519W Depth: 4.0 km
Grid Ref: 430.47 kmE 608.31 kmN RMS: 0.31 secs
Locality: AMBLE, NORTHUMBERLAND Quality: D
Comments: C/F - OFFSHORE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BTA	SE	90				23:08	48.92	24	0.31
BWH	SZ	137	EP	3		23:08	44.60		
BWH	SZ	137	ES	3		23:08	59.79		
BBH	SZ	93	EP	3		23:08	37.08		
BBH	SZ	93	ES	3		23:08	48.28		
BDL	SZ	110	EP	3		23:08	39.68		
BDL	SZ	110	ES	3		23:08	53.28		
ECK	SZ	104	ES	3		23:08	51.46		
ESK	SN	107	ES	3		23:08	52.40		
ESK	SN	107				23:08	55.13	13	0.27
ESK	SE	107				23:08	54.72	8	0.28

XAL	SZ	72	ES	3		23:08	42.04		
XSO	SZ	48	EP	3		23:08	29.61		
XSO	SZ	48	ES	3		23:08	35.33		
BHH	SZ	113	EP	3		23:08	40.34		
BHH	SN	113	ES	3		23:08	53.66		
BHH	SN	113				23:08	56.42	39	0.24
BHH	SE	113				23:08	55.85	24	0.23
BNA	SZ	141	EP	3		23:08	44.53		
BNA	SZ	141	ES	3		23:09	01.33		
BBO	SZ	131	EP	3		23:08	42.40		
BBO	SN	131	ES	3		23:08	58.44		
BBO	SN	131				23:08	59.99	15	0.36
BBO	SE	131				23:09	00.78	10	0.46
BTA	SZ	90	EP	3		23:08	36.75		
BTA	SN	90	ES	3		23:08	46.73		
BTA	SN	90				23:08	48.54	13	0.32

August 12 1993 Time: 16:39 39.2 UTC Magnitude: 1.3 ML
Lat: 54.583N Lon: 3.779W Depth: 5.2 km
Grid Ref: 285.05 kmE 522.35 kmN RMS: 0.18 secs
Locality: WHITEHAVEN, CUMBRIA Quality: C
Comments: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GIM	SZ	55	EP	2		16:39	48.65		
GIM	SN	55	ES	3		16:39	56.20		
GIM	SN	55				16:39	58.33	16	0.09
GIM	SE	55				16:39	57.87	9	0.10
GCD	SZ	33	IP		D	16:39	45.37		
GCD	SZ	33	ES	2		16:39	49.44		
XDE	SZ	21	IP		D	16:39	43.30		
CKE	SZ	44	EP	2		16:39	46.81		
CDU	SZ	47	IP		D	16:39	47.32		
LMI	SZ	51	IP	1	D	16:39	48.13		
LMI	SN	51				16:39	54.59	10	0.13
LMI	SE	51	ES	3		16:39	54.22		
LMI	SE	51				16:39	58.78	10	0.24
CSF	SZ	38	IP		D	16:39	45.90		
CSF	SZ	38	ES	3		16:39	50.28		
BHH	SZ	67	EP	2		16:39	50.53		
BHH	SN	67	ES	2		16:39	58.99		
BHH	SN	67				16:40	00.17	31	0.14
BHH	SE	67				16:40	01.53	28	0.13
BNA	SZ	44	IP	1	C	16:39	46.80		
BNA	SZ	44	ES	3		16:39	52.03		
BBO	SZ	38	IP	1	C	16:39	45.85		
BBO	SN	38				16:39	51.44	15	0.17
BBO	SE	38	ES	2		16:39	50.97		
BBO	SE	38				16:39	51.66	13	0.12
BTA	SZ	79	EP	2		16:39	52.68		
BWH	SZ	66	IP	1	C	16:39	50.75		
BWH	SZ	66	ES	3		16:39	58.48		
BBH	SZ	82	EP	2		16:39	52.98		
BDL	SZ	59	EP	3		16:39	49.37		
BTA	SN	79	ES	3		16:40	02.59		
BTA	SN	79				16:40	05.39	12	0.12
BTA	SE	79				16:40	05.72	9	0.18
GAL	SN	68	ES	2		16:39	58.73		
GAL	SN	68				16:40	00.29	13	0.07
GAL	SE	68				16:40	02.41	9	0.12
GAL	SZ	68	EP	3		16:39	51.05		
ESK	SN	90				16:40	05.98	15	0.15
ESK	SE	90	ES	3		16:40	04.90		
ESK	SE	90		3		16:40	05.78	13	0.10
ESK	SZ	90	EP	3		16:39	54.17		
XAL	SZ	106	EP	3		16:39	57.23		
XSO	SZ	141	EP	3		16:40	02.34		
ECK	SZ	79	EP	3		16:39	52.39		
WCB	SZ	143	EP	3		16:40	02.58		
WCB	SN	143				16:40	20.62	6	0.20
WCB	SE	143	ES	3		16:40	19.20		
WCB	SE	143				16:40	20.89	5	0.12

August 13 1993 Time: 16:43 42.7 UTC Magnitude: 0.7 ML
Lat: 50.110N Lon: 5.178W Depth: 5.6 km
Grid Ref: 172.82 kmE 28.21 kmN RMS: 0.02 secs
Locality: CONSTANTINE, CORNWALL Quality: A

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CMA	SZ	5	IP		D	16:43	43.93		
CMA	SN	5	ES			16:43	44.94		
CMS	SZ	5	IP		D	16:43	43.93		
CR2	SZ	6	IP		C	16:43	44.17		
CR2	SN	6	ES			16:43	45.27		
CSA	SZ	34	EP	4	C	16:43	48.51		
CGH	SZ	7	IP		C	16:43	44.14		
CCO	SZ	3	IP		C	16:43	43.81		
CCA	SZ	9	IP		C	16:43	44.56		
CCA	SZ	9	ES			16:43	45.95		
CCA	SZ	9				16:43	46.56		
CST	SZ	10	IP		C	16:43	44.61		
CST	SZ	10	ES			16:43	46.04		
CBW	SZ	6	IP		C	16:43	44.12		
CPZ	SZ	30	IP	4	D	16:43	47.74		
CME	SZ	7	IP		C	16:43	44.31		
CME	SN	7	ES			16:43	45.49		
CGW	SZ	3	IP		D	16:43	43.80		
CTR	SZ	6	IP		C	16:43	44.15		
CTR	SZ	6				16:43	45.32	71	0.06
CRA	SZ	6	IP		C	16:43	44.14		
CRQ	SZ	6	IP	4	C	16:43	44.16		
CRQ	SZ	6				16:43	45.27	53	0.04

August 13 1993 Time: 20:45 6.3 UTC Magnitude: 0.0 ML
Lat: 50.103N Lon: 5.169W Depth: 5.1 km
Grid Ref: 173.41 kmE 27.39 kmN RMS: 0.04 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	7	IP		C	20:45	07.79		
CR2	SN	7	ES			20:45	08.91		
CR2	SN	7				20:45	08.93	14	0.05
CR2	SE	7				20:45	08.98	11	0.08
CGH	SZ	6	ES	2		20:45	08.62		
CCO	SZ	4	IP		C	20:45	07.44		
CCO	SZ	4	ES			20:45	08.31		
CCA	SZ	10	IP		C	20:45	08.18		
CST	SZ	10	EP	2		20:45	08.25		
CBW	SZ	6	IP		C	20:45	07.74		
CBW	SZ	6	ES			20:45	08.84		
CME	SZ	8	IP		C	20:45	07.93		
CGW	SZ	4	IP		D	20:45	07.44		
CTR	SZ	7	IP		C	20:45	07.78		

August 14 1993 Time: 05:20 5.9 UTC Magnitude: 0.4 ML
Lat: 50.110N Lon: 5.176W Depth: 5.3 km
Grid Ref: 172.93 kmE 28.19 kmN RMS: 0.01 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	05:20	07.37		
CR2	SN	6	ES			05:20	08.48		
CR2	SN	6				05:20	08.50	41	0.06
CR2	SE	6				05:20	08.52	25	0.06
CGH	SZ	7	EP	2	C	05:20	07.36		
CCO	SZ	3	EP		C	05:20	07.01		
CCA	SZ	9	IP		C	05:20	07.76		
CCA	SZ	9	ES			05:20	09.17		
CST	SZ	10	IP		C	05:20	07.81		
CST	SZ	10	ES			05:20	09.23		
CBW	SZ	6	IP		C	05:20	07.32		
CME	SZ	7	IP		C	05:20	07.50		
CME	SN	7	ES			05:20	08.67		
CGW	SZ	4	IP		D	05:20	07.01		
CTR	SZ	6	IP		C	05:20	07.35		
CTR	SZ	6	ES			05:20	08.46		
CRA	SZ	6	IP		C	05:20	07.35		

August 14 1993 Time: 17:57 55.5 UTC Magnitude: 0.1 ML
Lat: 50.110N Lon: 5.176W Depth: 5.5 km
Grid Ref: 172.96 kmE 28.17 kmN RMS: 0.01 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	IP		C	17:57	56.96		
CR2	SN	6	ES			17:57	58.08		
CR2	SN	6				17:57	58.10	18	0.04
CR2	SE	6				17:57	58.14	17	0.09
CGH	SZ	7	EP	1		17:57	56.95		
CCO	SZ	3	EP	1	C	17:57	56.61		
CCO	SZ	3	ES	2		17:57	57.49		
CCA	SZ	9	ES	1		17:57	58.76		
CST	SZ	10	ES			17:57	58.84		
CBW	SZ	6	IP		C	17:57	56.91		
CBW	SZ	6	ES			17:57	58.01		
CME	SZ	8	IP		C	17:57	57.10		
CME	SN	8	ES			17:57	58.30		
CGW	SZ	4	IP		D	17:57	56.60		
CTR	SZ	6	IP		C	17:57	56.94		
CTR	SZ	6	ES			17:57	58.06		
CRA	SZ	6	IP		C	17:57	56.94		

August 14 1993 Time: 19:14 56.1 UTC Magnitude: 0.9 ML
Lat: 52.889N Lon: 3.502W Depth: 9.9 km
Grid Ref: 298.93 kmE 333.43 kmN RMS: 0.06 secs
Locality: BALA, GWYNEDD Quality: B
Comments: 7KM SE OF BALA

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WCB	SN	89				19:15	21.38	3	0.09
WCB	SE	89	ES	2		19:15	20.78		
WCB	SE	89				19:15	21.07	4	0.17
WME	SZ	78	EP	2		19:15	09.07		
WLF	SZ	75	EP	2		19:15	08.51		
YRC	SZ	82	EP	1		19:15	09.81		
WPM	SZ	49	EP	1	D	19:15	04.56		
WPM	SZ	49	ES	2		19:15	10.27		
YLL	SZ	53	EP	2		19:15	05.04		

YRE	SZ	63	IP		C	19:15	06.82		
YRH	SZ	76	IP		C	19:15	08.84		
WFB	SZ	43	IP		C	19:15	03.40		
WCB	SZ	89	EP	2		19:15	11.18		
SSP	SZ	59	IP		D	19:15	06.01		
SSP	SN	59				19:15	14.31	5	0.05
SSP	SE	59	ES	2		19:15	12.95		
SSP	SE	59				19:15	13.92	4	0.34
HCG	SZ	64	EP	1	D	19:15	06.50		
HLM	SZ	59	EP	1	C	19:15	06.09		
HTR	SZ	91	EP	2		19:15	11.25		
SBD	SZ	17	IP		C	19:14	59.33		

August 17 1993 Time: 08:25 54.2 UTC Magnitude: 0.3 ML
Lat: 52.927N Lon: 4.354W Depth: 13.1 km
Grid Ref: 241.77 kmE 339.27 kmN RMS: 0.07 secs
Locality: PWLLHELI, GWYNEDD Quality: B
Comments: 7KM NE OF PWLLHELI

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
YRC	SZ	39	ES	2		08:26	05.75		
YLL	SZ	27	IP		C	08:25	59.07		
YLL	SZ	27	ES	2		08:26	02.55		
YLL	SZ	27				08:26	02.67	9	0.19
YRE	SZ	8	IP		D	08:25	56.79		
YRE	SZ	8				08:25	56.88	19	0.09
YRH	SZ	21	IP		C	08:25	58.28		
YRH	SZ	21	ES	2		08:26	01.20		
YRH	SZ	21				08:26	01.39	13	0.17
WFB	SZ	35	EP	2		08:26	00.44		

August 17 1993 Time: 19:06 34.7 UTC Magnitude: -0.2 ML
Lat: 57.014N Lon: 5.766W Depth: 6.9 km
Grid Ref: 171.37 kmE 797.74 kmN RMS: 0.22 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KAC	SZ	61	EP	3		19:06	45.68		
KAC	SZ	61	ES	3		19:06	52.36		
KSB	SZ	30	IP		C	19:06	40.38		
KAR	SZ	11	IP		D	19:06	37.24		
KAR	SZ	11	ES	3		19:06	38.90		
KPL	SZ	37	EP	3		19:06	41.31		
KNR	SZ	53	IP	1	C	19:06	43.95		
KNR	SZ	53	ES	3		19:06	49.95		
KPL	SE	37	ES	3		19:06	45.65		
KPL	SE	37				19:06	45.96	1	0.25
KPL	SN	37				19:06	46.22	1	0.14

August 18 1993 Time: 02:38 3.2 UTC Magnitude: 0.7 ML
Lat: 56.129N Lon: 3.730W Depth: 0.8 km
Grid Ref: 292.49 kmE 694.28 kmN RMS: 0.07 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EAU	SZ	36	EP	2		02:38	10.06		
EAU	SZ	36	ES	2		02:38	15.22		
EBL	SZ	58	EP	3		02:38	13.55		
ESY	SZ	74	EP	2		02:38	16.27		
EAB	SZ	38	EP	2	C	02:38	10.52		
EAB	SZ	38	ES	3		02:38	15.76		
EBH	SZ	19	IP		D	02:38	07.20		
EBH	SZ	19	ES	3		02:38	10.26		
EDU	SZ	64	EP	2		02:38	14.86		
EDU	SZ	64	ES	3		02:38	23.21		
ELO	SZ	38	EP	2		02:38	10.47		
ELO	SZ	38	ES	3		02:38	15.64		
PMS	SZ	71	EP	3		02:38	15.78		
PCO	SZ	28	IP	1	C	02:38	08.75		
EDI	SE	41				02:38	26.89	15	0.83
EDI	SZ	41	IP	1	D	02:38	10.90		
EDI	SN	41	ES	3		02:38	16.60		
EDI	SN	41				02:38	26.04	13	1.01

August 19 1993 Time: 19:45 54.7 UTC Magnitude: 0.7 ML
Lat: 54.640N Lon: 3.274W Depth: 13.0 km
Grid Ref: 317.80 kmE 528.00 kmN RMS: 0.10 secs
Locality: COCKERMOUTH, CUMBRIA Quality: A
Comments: 6KM SE OF COCKERMOUTH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GIM	SN	87	ES	3		19:46	20.00		
GIM	SN	87				19:46	21.25	2	0.12
GIM	SE	87				19:46	21.37	2	0.10
GCD	SZ	50	IP	2	C	19:46	03.72		
GCD	SZ	50	ES	2		19:46	09.73		
BBO	SN	11	ES	2		19:45	59.94		
CKE	SZ	12	IP		D	19:45	58.00		
CSF	SZ	22	IP		D	19:45	59.19		
CSF	SZ	22	ES	2		19:46	02.17		
CDU	SZ	34	IP	1	D	19:46	01.08		
LMI	SZ	47	IP	2	C	19:46	03.22		
LMI	SN	47	ES	3		19:46	08.91		
LMI	SN	47				19:46	09.02	3	0.15
LMI	SE	47				19:46	09.55	4	0.25
BDL	SZ	28	EP	2		19:46	00.15		
BHH	SN	51				19:46	10.36	6	0.27
BHH	SE	51	ES	3		19:46	09.94		
BHH	SE	51				19:46	10.40	6	0.18
XDE	SZ	21	IP		C	19:45	59.30		
XDE	SZ	21	ES	3		19:46	01.99		
BBO	SZ	11	EP	2	C	19:45	57.88		

August 19 1993 Time: 20:23 30.5 UTC Magnitude: 0.4 ML
Lat: 54.634N Lon: 3.283W Depth: 10.1 km
Grid Ref: 317.21 kmE 527.27 kmN RMS: 0.08 secs
Locality: COCKERMOUTH, CUMBRIA Quality: B
Comments: 6KM SE OF COCKERMOUTH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
XDE	SZ	20	IP	1	C	20:23	34.78		
XDE	SZ	20	ES	3		20:23	37.48		
BBO	SN	12	ES	2		20:23	35.44		
CKE	SZ	13	IP		D	20:23	33.49		
CSF	SZ	21	IP		D	20:23	34.68		
CSF	SZ	21	ES	3		20:23	37.66		
CDU	SZ	34	IP	1	D	20:23	36.58		
LMI	SZ	46	EP	3		20:23	38.64		
LMI	SN	46	ES	3		20:23	44.46		
LMI	SN	46				20:23	44.59	3	0.24
LMI	SE	46				20:23	45.03	2	0.24
GIM	SN	86	ES	3		20:23	55.69		
GIM	SN	86				20:23	56.73	1	0.09
GIM	SE	86				20:23	56.86	1	0.09
BHH	SN	51	ES	4		20:23	45.17		
BHH	SN	51				20:23	45.93	2	0.19
BBO	SZ	12	EP	2		20:23	33.42		
GCD	SZ	50	EP	2		20:23	39.20		
GCD	SZ	50	ES	3		20:23	45.26		

August 27 1993 Time: 08:49 2.2 UTC Magnitude: 0.9 ML
Lat: 51.892N Lon: 2.239W Depth: 21.9 km
Grid Ref: 383.54 kmE 221.53 kmN RMS: 0.05 secs
Locality: GLOUCESTER, GL'SHIRE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	54	ES	2		08:49	18.32		
MCH	SN	54				08:49	18.69	7	0.10
MCH	SE	54				08:49	18.47	6	0.11
MCH	SZ	54	EP	2		08:49	11.76		
HAE	SZ	27	IP		D	08:49	07.87		
HGH	SZ	48	EP	2		08:49	10.81		
HLM	SZ	83	EP	2		08:49	15.84		
HTR	SZ	74	EP	3		08:49	15.06		

August 28 1993 Time: 12:30 48.6 UTC Magnitude: 0.4 ML
Lat: 57.332N Lon: 6.102W Depth: 3.8 km
Grid Ref: 153.15 kmE 834.23 kmN RMS: 0.12 secs
Locality: ISLE OF SKYE, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	27	ES	2		12:30	57.21		
KPL	SN	27				12:30	57.75	10	0.16
KPL	SE	27				12:30	57.75	9	0.15
KNR	SZ	89	EP	3		12:31	03.52		
KNR	SZ	89	ES	3		12:31	14.47		
KAR	SZ	49	IP	1	C	12:30	57.19		
KSB	SZ	43	IP	1	C	12:30	56.41		
KAC	SZ	52	EP	2		12:30	58.02		
KAC	SZ	52	ES	2		12:31	04.27		
KPL	SZ	27	EP	3		12:30	53.79		

August 30 1993 Time: 05:15 56.0 UTC Magnitude: 1.9 ML
Lat: 59.031N Lon: 1.624E Depth: 22.3 km
Grid Ref: 607.94 kmE 1021.63 kmN RMS: 0.25 secs
Locality: NORTHERN NORTH SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EGD	SZ	241	EP	3		05:16	29.78		
EGD	SZ	241	IS	2		05:16	53.63		
ASK	SZ	258	EP	3		05:16	31.28		
SUE	SN	286	EP	3		05:16	34.38		
YEL	SZ	228	EP	2		05:16	27.74		
WAL	SZ	228	EP	2		05:16	27.94		
WAL	SZ	228	ES	4		05:16	50.53		
LRW	SN	201				05:16	51.21	10	0.23
LRW	SE	201	ES	4		05:16	47.37		
LRW	SE	201				05:16	50.15	9	0.15
MCD	SN	328	ES	3		05:17	11.76		
MME	SZ	331	ES	3		05:17	13.01		
MVH	SZ	360	ES	3		05:17	19.00		
MLA	SZ	300	ES	3		05:17	06.30		

August 31 1993 Time: 01:39 49.3 UTC Magnitude: -0.1 ML
Lat: 57.271N Lon: 5.445W Depth: 2.3 km
Grid Ref: 192.29 kmE 825.22 kmN RMS: 0.08 secs
Locality: LOCH DUICH, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	15	ES	3		01:39	54.28		

KPL	SN	15				01:39	54.54	9	0.12
KPL	SE	15				01:39	54.50	7	0.12
KAR	SZ	46	EP	2	D	01:39	57.58		
KAC	SZ	27	EP	2		01:39	54.36		
KPL	SZ	15	IP	1	C	01:39	52.35		
KSB	SZ	7	IP		D	01:39	51.03		
KSB	SZ	7	ES	2		01:39	52.00		

August 31 1993 Time: 02:01 59.9 UTC Magnitude: 0.8 ML
Lat: 54.796N Lon: 3.893W Depth: 7.8 km
Grid Ref: 278.29 kmE 546.17 kmN RMS: 0.07 secs
Locality: DUNDRENNAN, D & G Quality: B
Comments: 3KM ESE OF DUNDRENNAN

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SZ	55	EP	2	C	02:02	09.31		
BHH	SN	55				02:02	16.63	4	0.11
BHH	SE	55	ES	3		02:02	16.22		
BHH	SE	55				02:02	17.50	5	0.10
BNA	SZ	26	IP		C	02:02	04.73		
BNA	SZ	26	ES	2		02:02	08.06		
BTA	SZ	79	EP	3		02:02	13.48		
BTA	SN	79	ES	3		02:02	23.02		
BTA	SN	79				02:02	25.06	4	0.22
BTA	SE	79				02:02	25.25	5	0.52
BWH	SZ	45	EP	3		02:02	07.80		
BBH	SZ	72	EP	2		02:02	12.27		
BDL	SZ	61	EP	2	D	02:02	10.76		
GIM	SZ	67	EP	3		02:02	11.44		
GIM	SN	67	ES	3		02:02	19.65		
GIM	SN	67				02:02	20.51	4	0.09
GIM	SE	67				02:02	19.84	4	0.17
GCD	SZ	8	IP		D	02:02	02.12		
GCD	SZ	8	ES	3		02:02	03.58		
XDE	SZ	41	EP	2		02:02	07.30		
BBO	SZ	42	IP	1	C	02:02	07.50		
BBO	SN	42				02:02	12.76	5	0.18
BBO	SE	42	ES	2		02:02	12.65		
BBO	SE	42				02:02	12.67	4	0.10
CKE	SZ	56	EP	3		02:02	09.63		
CDU	SZ	68	EP	2		02:02	11.58		
LMI	SN	74	ES	3		02:02	21.64		

September 1 1993 Time: 19:26 6.2 UTC Magnitude: -0.2 ML
Lat: 50.111N Lon: 5.179W Depth: 7.2 km
Grid Ref: 172.72 kmE 28.29 kmN RMS: 0.03 secs
Locality: CONSTANTINE, CORNWALL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	6	EP		D	19:26	07.93		
CR2	SN	6	ES			19:26	09.24		
CR2	SN	6				19:26	09.26	6	0.04
CR2	SE	6				19:26	09.28	15	0.05
CGH	SZ	7	ES			19:26	09.27		
CCA	SZ	9	IP		D	19:26	08.29		
CCA	SZ	9	ES			19:26	09.77		
CST	SZ	10	ES			19:26	09.89		
CBW	SZ	6	IP		C	19:26	07.93		
CBW	SZ	6	ES			19:26	09.15		
CME	SN	7	ES			19:26	09.35		
CCO	SZ	3	ES			19:26	08.71		

September 3 1993 Time: 21:10 19.7 UTC Magnitude: 0.4 ML
Lat: 52.150N Lon: 2.466W Depth: 18.3 km
Grid Ref: 368.11 kmE 250.38 kmN RMS: 0.14 secs
Locality: BROMYARD, HER & WOR Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	53	IP	1	D	21:10	29.04		
SSP	SN	53				21:10	35.66	2	0.12
SSP	SE	53	ES	2		21:10	35.56		
SSP	SE	53				21:10	36.04	2	0.07
MCH	SN	40	ES	2		21:10	32.26		
MCH	SN	40				21:10	32.61	4	0.14
MCH	SE	40				21:10	33.93	4	0.20
MCH	SZ	40	EP	1		21:10	26.86		
HAE	SZ	14	IP		C	21:10	23.50		
HCG	SZ	84	EP	1	C	21:10	33.64		
HGH	SZ	62	EP	2		21:10	30.30		
HTR	SZ	56	EP	1	C	21:10	29.00		
HLM	SZ	50	EP	2		21:10	28.24		

September 4 1993 Time: 06:13 48.3 UTC Magnitude: 0.3 ML
Lat: 57.033N Lon: 5.793W Depth: 3.8 km
Grid Ref: 169.87 kmE 799.88 kmN RMS: 0.17 secs
Locality: MALLAIG, HIGHLAND Quality: D
Comments: MAGNITUDE FROM VERTICALS

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SE	35	ES	3		06:13	59.19		
KAR	SZ	13	EP	1	C	06:13	51.08		
KAR	SZ	13	ES	2		06:13	52.74		
KAR	SZ	13				06:13	52.80	14	0.10
KSB	SZ	30	EP	3		06:13	54.12		
KSB	SZ	30	ES	3		06:13	57.73		
KSB	SZ	30				06:13	57.89	8	0.14

September 4 1993 Time: 06:45 28.9 UTC Magnitude: 0.3 ML
Lat: 57.032N Lon: 5.789W Depth: 2.0 km
Grid Ref: 170.11 kmE 799.74 kmN RMS: 0.15 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	35	ES	2		06:45	40.09		
KPL	SN	35				06:45	40.42	4	0.15
KPL	SE	35				06:45	40.22	4	0.19
KNR	SZ	55	EP	3		06:45	38.78		
KAR	SZ	13	IP		C	06:45	31.73		
KAR	SZ	13	ES	3		06:45	33.39		
KSB	SZ	30	EP	3		06:45	34.61		
KSB	SZ	30	ES	3		06:45	38.01		
KAC	SZ	60	EP	3		06:45	39.70		
KPL	SZ	35	EP	2		06:45	35.59		

September 4 1993 Time: 07:14 55.1 UTC Magnitude: 2.7 ML
Lat: 57.030N Lon: 5.784W Depth: 2.7 km
Grid Ref: 170.38 kmE 799.52 kmN RMS: 0.08 secs
Locality: MALLAIG, HIGHLAND Quality: B
Comments: FELT MALLAIG Intensity: 3+

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KNR	SZ	55	IP		C	07:15	04.66		
KAC	SZ	60	EP	2		07:15	05.59		
KSK	SZ	74	IP	1	C	07:15	07.67		
GIM	SZ	316	EP	2		07:15	39.71		
GCD	SZ	267	EP	3		07:15	34.02		
XDE	SZ	316	EP	3		07:15	40.13		
BBO	SZ	301	EP	3		07:15	38.41		
CKE	SZ	320	EP	3		07:15	40.51		
CSF	SZ	329	EP	3		07:15	41.52		
CDU	SZ	341	EP	3		07:15	43.24		
LMI	SZ	350	EP	3		07:15	44.21		
LMI	SN	350				07:16	22.45	10	0.25
LMI	SE	350				07:16	23.18	8	0.22
MCD	SZ	165	EP	3		07:15	21.14		
MCD	SE	165	ES	3		07:15	40.14		
MCD	SN	165				07:15	42.25	52	0.32
MCD	SE	165				07:15	42.86	40	0.17
MDO	SZ	97	EP	3		07:15	11.69		
MME	SZ	173	EP	2		07:15	22.11		
MLA	SZ	203	EP	3		07:15	26.79		
PCA	SZ	176	EP	3		07:15	22.70		
PMS	SZ	147	EP	3	C	07:15	18.83		
KPL	SZ	35	IP		C	07:15	01.59		
KPL	SE	35	ES	3		07:15	06.11		
KAR	SZ	13	IP		C	07:14	57.71		
KSB	SZ	30	IP		C	07:15	00.64		
KSB	SZ	30	ES	3		07:15	04.35		
EBL	SZ	220	EP	3		07:15	28.64		
EBH	SZ	165	EP	3		07:15	21.38		
ELO	SZ	141	EP	3		07:15	18.35		
EDR	SZ	198	EP	3		07:15	25.06		
EAB	SZ	129	EP	3		07:15	16.27		
EDI	SZ	202	EP	3		07:15	26.02		
EDI	SE	202	ES	3		07:15	48.93		
EDI	SN	202				07:15	53.44	61	0.18
EDI	SE	202				07:15	53.53	61	0.21
PGB	SZ	158	EP	3		07:15	20.47		
PGB	SN	158	ES	3		07:15	39.21		
PGB	SN	158				07:15	41.84	112	0.20
PGB	SE	158				07:15	41.79	127	0.20

September 4 1993 Time: 07:16 29.1 UTC Magnitude: 0.7 ML
Lat: 57.029N Lon: 5.778W Depth: 2.4 km
Grid Ref: 170.76 kmE 799.39 kmN RMS: 0.18 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	35	ES	2		07:16	40.18		
KPL	SN	35				07:16	40.33	7	0.18
KPL	SE	35				07:16	40.63	13	0.12
KPL	SZ	35	EP	3		07:16	35.84		
KAR	SZ	13	EP	1	C	07:16	31.90		
KAR	SZ	13	ES	2		07:16	33.41		
KSB	SZ	30	EP	2		07:16	34.78		
KSB	SZ	30	ES	2		07:16	38.51		
ELO	SZ	141	ES	3		07:17	08.80		

September 4 1993 Time: 08:04 44.9 UTC Magnitude: 0.4 ML
Lat: 57.031N Lon: 5.777W Depth: 2.8 km
Grid Ref: 170.87 kmE 799.66 kmN RMS: 0.08 secs
Locality: MALLAIG, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	35				08:04	55.98	4	0.18
KPL	SE	35	ES	2		08:04	55.85		
KPL	SE	35				08:04	56.21	6	0.09
KNR	SZ	54	EP	2		08:04	54.48		
KSB	SZ	29	EP	2		08:04	50.49		
KSB	SZ	29	ES	3		08:04	54.21		

KAC	SZ	60	EP	3		08:04	55.30		
KSK	SZ	74	EP	3		08:04	57.56		
KPL	SZ	35	EP	2		08:04	51.17		
KAR	SZ	13	IP		C	08:04	47.58		
KAR	SZ	13	ES	3		08:04	49.25		

September 4 1993 Time: 10:23 0.8 UTC Magnitude: 0.1 ML
Lat: 57.024N Lon: 5.774W Depth: 3.4 km
Grid Ref: 170.95 kmE 798.88 kmN RMS: 0.12 secs
Locality: MALLAIG, HIGHLAND Quality: D
Comments: MAGNITUDE FROM VERTICALS

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SE	36	ES	3		10:23	12.09		
KAR	SZ	12	EP	2		10:23	03.54		
KAR	SZ	12	ES	2		10:23	05.06		
KAR	SZ	12				10:23	05.33	10	0.11
KSB	SZ	30	EP	3		10:23	06.34		
KSB	SZ	30	ES	2		10:23	10.28		
KSB	SZ	30				10:23	10.42	5	0.16

September 4 1993 Time: 10:32 23.6 UTC Magnitude: 0.2 ML
Lat: 57.033N Lon: 5.784W Depth: 2.8 km
Grid Ref: 170.45 kmE 799.85 kmN RMS: 0.18 secs
Locality: MALLAIG, HIGHLAND Quality: D
Comments: MAGNITUDE FROM VERTICALS

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KSB	SZ	29	EP	3		10:32	29.48		
KSB	SZ	29	ES	3		10:32	33.04		
KSB	SZ	29				10:32	33.13	4	0.17
KAR	SZ	13	EP	2	C	10:32	26.37		
KAR	SZ	13	ES	3		10:32	28.02		
KAR	SZ	13				10:32	28.10	16	0.12
KPL	SE	35	ES	3		10:32	34.75		

September 4 1993 Time: 18:04 42.6 UTC Magnitude: 0.1 ML
Lat: 57.028N Lon: 5.784W Depth: 3.3 km
Grid Ref: 170.42 kmE 799.39 kmN RMS: 0.12 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KAR	SZ	13	IP		C	18:04	45.24		
KAR	SZ	13	ES	3		18:04	46.89		
KSB	SZ	30	EP	2		18:04	48.18		
KSB	SZ	30	ES	3		18:04	51.89		
KAC	SZ	60	EP	3		18:04	53.28		
KPL	SZ	36	EP	3		18:04	49.11		
KPL	SN	36	ES	3		18:04	53.60		
KPL	SN	36				18:04	53.87	2	0.11
KPL	SE	36				18:04	53.97	2	0.11

September 5 1993 Time: 09:48 19.3 UTC Magnitude: 2.0 ML
Lat: 57.027N Lon: 5.780W Depth: 2.7 km
Grid Ref: 170.61 kmE 799.23 kmN RMS: 0.08 secs
Locality: MALLAIG, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KSB	SZ	30	IP		C	09:48	24.90		
KSB	SZ	30	ES	3		09:48	28.62		
KSK	SZ	74	EP	2		09:48	31.96		
KSK	SZ	74	ES	3		09:48	41.23		
KAR	SZ	13	IP		C	09:48	21.96		
KAR	SZ	13	ES	3		09:48	23.62		
KAC	SZ	60	EP	2		09:48	29.84		
KAC	SZ	60	ES	3		09:48	37.41		
KNR	SZ	54	EP	1	C	09:48	28.95		
KPL	SZ	36	EP	1		09:48	25.83		
KPL	SN	36	ES	2		09:48	30.23		
PCA	SZ	175	EP	3		09:48	47.01		
MCD	SN	164				09:49	06.52	13	0.32
MCD	SE	164	ES	3		09:49	04.67		
MCD	SE	164				09:49	07.11	10	0.14
MCD	SZ	164	EP	3		09:48	46.42		
PMS	SZ	146	EP	3		09:48	43.55		
MDO	SZ	97	EP	3		09:48	35.52		
EDI	SN	202	ES	3		09:49	13.42		
EDI	SN	202				09:49	17.42	13	0.16
EDI	SE	202				09:49	17.71	11	0.11
EAU	SZ	195	EP	3		09:48	49.52		
EBL	SZ	219	EP	3		09:48	53.13		
EAB	SZ	129	EP	3		09:48	40.45		
EBH	SZ	164	EP	3		09:48	45.62		
EBH	SZ	164	ES	3		09:49	06.43		
EDU	SZ	177	EP	3		09:48	47.41		
ELO	SZ	141	EP	3		09:48	42.36		
ELO	SZ	141	ES	3		09:48	59.47		
EDR	SZ	197	EP	3		09:48	49.16		
EDR	SZ	197	ES	3		09:49	11.34		
EDI	SZ	202	EP	3		09:48	51.27		
PGB	SZ	158	EP	4		09:48	43.47		
PGB	SN	158	ES	3		09:49	02.74		
PGB	SN	158				09:49	06.06	25	0.22
PGB	SE	158				09:49	06.02	28	0.22

September 6 1993 Time: 02:28 31.8 UTC Magnitude: 2.3 ML
Lat: 53.069N Lon: 2.546E Depth: 3.8 km
Grid Ref: 704.44 kmE 362.17 kmN RMS: 0.08 secs
Locality: SOUTHERN NORTH SEA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
APA	SZ	112	EP	2		02:28	50.27		
AWH	SZ	118	EP	2		02:28	51.26		
AWH	SZ	118	ES	2		02:29	05.52		
AWI	SZ	78	EP	1	D	02:28	44.82		
ABA	SZ	96	EP	2		02:28	47.61		
KUF	SZ	204	EP			02:29	03.07		
KUF	SZ	204	ES	2		02:29	25.80		
KSY	SZ	211	EP	3		02:29	04.09		
CWF	SZ	262	EP	2		02:29	10.57		
CWF	SN	262				02:29	48.04	13	0.18
CWF	SE	262				02:29	53.47	6	0.28
KTG	SZ	216	EP	3		02:29	04.60		
SBD	SZ	390	EP	3		02:29	26.32		
SSP	SZ	389	EP	2		02:29	26.27		
SSP	SN	389				02:30	24.44	12	1.25
SSP	SE	389				02:30	31.80	9	1.20
HAE	SZ	364	EP	3		02:29	23.00		
HGH	SZ	398	EP	3		02:29	27.24		
HLM	SZ	372	EP	3		02:29	23.92		
HTR	SZ	409	EP	3		02:29	28.57		

September 6 1993 Time: 02:47 4.8 UTC Magnitude: 1.7 ML
Lat: 53.059N Lon: 1.001W Depth: 1.0 km
Grid Ref: 466.93 kmE 351.77 kmN RMS: 0.24 secs
Locality: OXTON, NOTTINGHAMSHIRE Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BBO	SE	238				02:48	14.75	14	0.30
LMI	SZ	200	ES	3		02:47	58.85		
CKE	SZ	220	EP	3		02:47	39.12		
CSF	SZ	214	EP	3		02:47	37.99		
CSF	SZ	214	ES	3		02:48	02.17		
CDU	SZ	203	EP	3		02:47	36.62		
CDU	SZ	203	ES	3		02:47	58.79		
BBO	SN	238	ES	3		02:48	07.67		
BBO	SN	238				02:48	10.38	11	0.36
SSP	SZ	160	EP	3		02:47	30.71		
SSP	SN	160				02:47	52.31	10	0.18
SSP	SE	160	ES	3		02:47	49.62		
SSP	SE	160				02:47	53.93	9	0.16
HAE	SZ	155	EP	3		02:47	30.30		
HCG	SZ	197	EP	3		02:47	36.10		
HGH	SZ	200	EP	3		02:47	36.27		
HLM	SZ	141	EP	2		02:47	27.78		
HLM	SZ	141	ES	3		02:47	44.26		
HTR	SZ	189	EP	3		02:47	35.17		
SBD	SZ	153	EP	3		02:47	29.36		
CWF	SZ	41	EP	2		02:47	12.41		
CWF	SN	41				02:47	20.46	19	0.05
CWF	SE	41	ES	3		02:47	18.48		
CWF	SE	41				02:47	20.71	33	0.11
KSY	SZ	30	EP	3		02:47	10.68		
KSY	SZ	30	ES	3		02:47	14.72		
KUF	SZ	64	EP	3		02:47	16.46		

September 6 1993 Time: 16:49 55.7 UTC Magnitude: 0.1 ML
Lat: 57.026N Lon: 5.765W Depth: 3.1 km
Grid Ref: 171.55 kmE 798.99 kmN RMS: 0.09 secs
Locality: MALLAIG, HIGHLAND Quality: D
Comments: MAGNITUDE FROM VERTICALS

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KAR	SZ	13	EP		C	16:49	58.35		
KAR	SZ	13	ES	2		16:49	59.99		
KAR	SZ	13				16:50	00.05	8	0.12
KSB	SZ	29	EP	3		16:50	01.12		
KSB	SZ	29	ES	2		16:50	05.03		
KSB	SZ	29				16:50	05.17	5	0.14
KPL	SN	36	ES	3		16:50	06.90		

September 7 1993 Time: 01:14 19.8 UTC Magnitude: 0.1 ML
Lat: 57.026N Lon: 5.775W Depth: 2.9 km
Grid Ref: 170.92 kmE 799.10 kmN RMS: 0.06 secs
Locality: MALLAIG, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SZ	36	EP	3		01:14	26.30		
KPL	SE	36	ES	3		01:14	30.96		
KPL	SE	36				01:14	31.21	2	0.11
KPL	SN	36				01:14	31.23	2	0.13
KAR	SZ	13	EP	2		01:14	22.40		
KAR	SZ	13	ES	2		01:14	24.19		
KSB	SZ	30	EP	3		01:14	25.35		
KSB	SZ	30	ES	2		01:14	29.19		
KAC	SZ	60	EP	3		01:14	30.19		

September 7 1993 Time: 02:19 34.1 UTC Magnitude: 1.2 ML
Lat: 56.124N Lon: 3.727W Depth: 0.7 km
Grid Ref: 292.64 kmE 693.72 kmN RMS: 0.09 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EBL	SZ	58	EP	3		02:19	44.65		
ESY	SZ	73	EP	3		02:19	47.29		
EAB	SZ	39	EP	3		02:19	41.40		
EAB	SZ	39	ES	3		02:19	46.59		
EBH	SZ	19	EP	2		02:19	38.17		
ELO	SZ	39	EP	3		02:19	41.43		
ELO	SZ	39	ES	3		02:19	46.87		
PGB	SZ	59	EP	3		02:19	44.78		
PGB	SN	59	ES	3		02:19	52.52		
PGB	SN	59				02:20	12.89	23	1.17
PGB	SE	59				02:20	18.27	32	1.20
EAU	SZ	36	EP	3		02:19	40.89		
EAU	SZ	36	ES	3		02:19	45.97		
PCO	SZ	28	EP	2	C	02:19	39.71		
PCO	SZ	28	ES	3		02:19	43.54		
PMS	SZ	71	EP	3		02:19	46.48		
EDI	SZ	41	EP	2		02:19	41.79		
EDI	SN	41	ES	3		02:19	47.17		
EDI	SN	41				02:19	52.30	37	1.00
EDI	SE	41				02:19	57.65	40	1.10

September 10 1993 Time: 22:54 47.6 UTC Magnitude: -0.1 ML
Lat: 55.238N Lon: 3.491W Depth: 4.5 km
Grid Ref: 305.18 kmE 594.83 kmN RMS: 0.13 secs
Locality: JOHNSTONEBRIDGE, D & G Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SZ	24	EP	3		22:54	52.19		
BHH	SN	24				22:54	55.42	9	0.14
BHH	SE	24	IS	2		22:54	55.25		
BHH	SE	24				22:54	55.38	7	0.12
BWH	SZ	13	IP		C	22:54	50.35		
BWH	SZ	13	ES	2		22:54	51.98		
ESK	SN	20	ES	2		22:54	54.05		
ESK	SN	20				22:54	55.09	3	0.19
ESK	SE	20			D	22:54	54.10	3	0.09
ECK	SZ	24	IP	1	C	22:54	52.23		
ECK	SZ	24	ES	3		22:54	55.16		
ESK	SZ	20	EP	2	C	22:54	51.53		

September 11 1993 Time: 05:25 37.3 UTC Magnitude: 0.7 ML
Lat: 57.024N Lon: 5.790W Depth: 2.9 km
Grid Ref: 170.00 kmE 798.91 kmN RMS: 0.10 secs
Locality: MALLAIG, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KAR	SZ	12	IP		C	05:25	39.88		
KAR	SZ	12	ES	2		05:25	41.50		
KSK	SZ	74	EP	3		05:25	49.88		
KAC	SZ	61	EP	3		05:25	47.84		
KAC	SZ	61	ES	3		05:25	55.75		
KPL	SZ	36	EP	2		05:25	43.96		
KPL	SN	36	ES	3		05:25	48.42		
KPL	SN	36				05:25	48.48	9	0.16
KPL	SE	36				05:25	48.54	7	0.14
KNR	SZ	55	EP	2		05:25	46.96		
KSB	SZ	30	IP		C	05:25	42.86		
KSB	SZ	30	ES	3		05:25	46.55		
EAB	SZ	129	EP	3		05:25	58.72		

September 11 1993 Time: 06:25 3.7 UTC Magnitude: 0.0 ML
Lat: 55.239N Lon: 3.491W Depth: 4.5 km
Grid Ref: 305.19 kmE 594.89 kmN RMS: 0.12 secs
Locality: JOHNSTONEBRIDGE, D & G Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BWH	SZ	13	IP		C	06:25	06.46		
BWH	SZ	13	ES	2		06:25	08.11		
ECK	SZ	24	EP	2	C	06:25	08.34		
ECK	SZ	24	ES	3		06:25	11.26		
BHH	SZ	24	EP	2		06:25	08.37		
BHH	SN	24				06:25	11.51	9	0.16
BHH	SE	24	ES	2		06:25	11.35		
BHH	SE	24				06:25	11.42	12	0.15
ESK	SZ	20	IP	1	C	06:25	07.64		
ESK	SN	20	ES	2		06:25	10.16		
ESK	SN	20				06:25	11.20	3	0.17
ESK	SE	20				06:25	10.28	3	0.10

September 11 1993 Time: 13:01 12.7 UTC Magnitude: 0.6 ML
Lat: 57.023N Lon: 5.764W Depth: 4.0 km
Grid Ref: 171.59 kmE 798.71 kmN RMS: 0.06 secs
Locality: MALLAIG, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KSB	SZ	29	IP	1	C	13:01	18.31		
KSB	SZ	29	ES	3		13:01	21.99		
KSK	SZ	75	EP	2		13:01	25.46		
KNR	SZ	53	ES	3		13:01	28.86		
KAC	SZ	60	EP	3		13:01	23.33		
KAC	SZ	60	ES	3		13:01	30.80		
KPL	SZ	36	EP	3		13:01	19.29		
KPL	SN	36	ES	3		13:01	23.88		
KPL	SN	36				13:01	23.94	10	0.15
KPL	SE	36				13:01	24.00	5	0.10
KAR	SZ	12	IP		C	13:01	15.32		

September 12 1993 Time: 12:38 10.4 UTC Magnitude: 0.7 ML
Lat: 52.111N Lon: 3.360W Depth: 15.8 km
Grid Ref: 306.86 kmE 246.79 kmN RMS: 0.06 secs
Locality: BUILTH WELLS, POWYS Quality: C
Comments: 5KM SE BUILTH WELLS

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	28	ES	1		12:38	19.61		
MCH	SN	28				12:38	19.68	31	0.09
MCH	SE	28				12:38	19.68	12	0.09
MCH	SZ	28	IP	1	D	12:38	15.67		
HAE	SZ	56	EP	2		12:38	20.25		
HCG	SZ	31	EP	2		12:38	16.24		
HGH	SZ	65	EP	2		12:38	21.36		
HTR	SZ	7	IP		D	12:38	13.25		
HTR	SZ	7	ES	2		12:38	15.47		

September 12 1993 Time: 20:42 36.1 UTC Magnitude: 0.6 ML
Lat: 57.023N Lon: 5.764W Depth: 2.5 km
Grid Ref: 171.61 kmE 798.76 kmN RMS: 0.15 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SZ	36	EP	2		20:42	42.66		
KPL	SE	36	ES	3		20:42	47.19		
KPL	SN	36				20:42	47.32	7	0.18
KPL	SE	36				20:42	47.39	6	0.14
KNR	SZ	53	EP	2		20:42	45.74		
KNR	SZ	53	ES	3		20:42	52.17		
KAR	SZ	13	IP	1	C	20:42	38.72		
KAR	SZ	13	ES	3		20:42	40.35		
KSB	SZ	29	IP	1	C	20:42	41.70		
KSB	SZ	29	ES	3		20:42	45.37		
KAC	SZ	60	EP	3		20:42	46.73		

September 13 1993 Time: 18:48 13.5 UTC Magnitude: 0.6 ML
Lat: 55.237N Lon: 3.495W Depth: 3.8 km
Grid Ref: 304.92 kmE 594.69 kmN RMS: 0.14 secs
Locality: JOHNSTONEBRIDGE, D & G Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SZ	24	EP	2		18:48	17.97		
BHH	SN	24				18:48	21.33	35	0.12
BHH	SE	24	ES	2		18:48	21.17		
BHH	SE	24				18:48	21.23	49	0.16
BNA	SZ	31	EP	3		18:48	19.14		
BNA	SZ	31	ES	3		18:48	22.94		
BWH	SZ	12	IP		C	18:48	16.28		
BWH	SZ	12	ES	2		18:48	17.92		
BBH	SZ	38	EP	2		18:48	20.37		
ESK	SN	21	ES	2		18:48	19.99		
ESK	SN	21				18:48	21.03	16	0.17
ESK	SE	21				18:48	20.10	16	0.11
ESK	SZ	21	IP		C	18:48	17.46		
ECK	SZ	24	IP		C	18:48	18.16		
ECK	SZ	24	ES	3		18:48	21.08		

September 13 1993 Time: 19:02 55.6 UTC Magnitude: 1.3 ML
Lat: 52.021N Lon: 3.522W Depth: 14.5 km
Grid Ref: 295.59 kmE 236.95 kmN RMS: 0.09 secs
Locality: BRECON, POWYS Quality: C
Comments: 12KM NW BRECON

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	36	ES	2		19:03	06.96		
MCH	SN	36				19:03	07.09	49	0.11
MCH	SE	36				19:03	07.03	35	0.09
MCH	SZ	36	IP	1	C	19:03	02.07		
SSP	SZ	52	EP	2		19:03	04.73		
SSP	SN	52	ES	3		19:03	11.45		
SSP	SN	52				19:03	12.37	13	0.12
SSP	SE	52				19:03	12.00	15	0.12
HCG	SZ	35	IP	1	D	19:03	02.01		
HGH	SZ	65	EP	2		19:03	06.78		
HLM	SZ	70	EP	3		19:03	07.34		
HTR	SZ	19	IP	1		19:02	59.75		

September 14 1993 Time: 16:15 4.3 UTC Magnitude: 0.9 ML
Lat: 56.126N Lon: 3.743W Depth: 2.0 km
Grid Ref: 291.67 kmE 693.97 kmN RMS: 0.11 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SZ	41	EP	2		16:15	11.63		
EDI	SN	41				16:15	20.56	11	0.23
EDI	SE	41	ES	3		16:15	17.47		
EDI	SE	41				16:15	20.09	12	0.29

EAU	SZ	36	EP	3		16:15	10.96
EAU	SZ	36	ES	3		16:15	15.84
EAB	SZ	38	EP	2		16:15	11.38
EAB	SZ	38	ES	3		16:15	16.01
EBH	SZ	20	EP	2		16:15	08.10
EBH	SZ	20	ES	3		16:15	11.19
ELO	SZ	38	EP	2	C	16:15	11.38
ELO	SZ	38	ES	3		16:15	16.38
PCO	SZ	27	EP	2		16:15	09.39
PCO	SZ	27	ES	3		16:15	13.07

September 15 1993 Time: 03:15 57.1 UTC Magnitude: 0.1 ML
Lat: 57.027N Lon: 5.774W Depth: 3.7 km
Grid Ref: 170.99 kmE 799.21 kmN RMS: 0.10 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SZ	36	EP	3		03:16	03.70		
KPL	SE	36	ES	3		03:16	08.25		
KPL	SN	36				03:16	08.28	2	0.21
KPL	SE	36				03:16	08.49	2	0.12
KAR	SZ	13	EP	2	C	03:15	59.79		
KAR	SZ	13	ES	3		03:16	01.44		
KSB	SZ	29	EP	3		03:16	02.65		
KSB	SZ	29	ES	3		03:16	06.48		

September 15 1993 Time: 12:58 47.6 UTC Magnitude: 1.2 ML
Lat: 57.610N Lon: 4.894W Depth: 3.6 km
Grid Ref: 227.11 kmE 861.40 kmN RMS: 0.11 secs
Locality: LOCH FANNICH, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	55				12:59	04.50	8	0.22
KPL	SE	55	ES	3		12:59	03.64		
KPL	SE	55				12:59	04.68	6	0.10
KNR	SZ	88	EP	3		12:59	02.07		
KSB	SZ	55	EP	2		12:58	57.01		
KAC	SZ	27	IP	1	C	12:58	52.64		
KPL	SZ	55	IP	1	C	12:58	57.34		
KAR	SZ	96	EP	3		12:59	03.96		
MDO	SZ	37	EP	2		12:58	54.39		
MDO	SZ	37	ES	3		12:58	58.77		
MVH	SZ	55	EP	3		12:58	57.19		
MCD	SZ	98	EP	2	D	12:59	04.52		
MCD	SN	98	ES	3		12:59	15.75		
MCD	SN	98				12:59	17.50	11	0.31
MCD	SE	98				12:59	17.64	13	0.28

September 16 1993 Time: 01:49 10.1 UTC Magnitude: 2.8 ML
Lat: 53.441N Lon: 2.520E Depth: 7.8 km
Grid Ref: 700.13 kmE 403.33 kmN RMS: 0.08 secs
Locality: SOUTHERN NORTH SEA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
APA	SZ	145	EP	2	C	01:49	33.09		
DOU	SZ	419	EP	3		01:50	07.80		
SNF	SZ	348	EP	3		01:49	58.70		
CWF	SZ	268	EP	2		01:49	48.79		
CWF	SN	268	ES	3		01:50	17.26		
CWF	SN	268				01:50	25.35	38	0.13
CWF	SE	268				01:50	26.87	21	0.15
KSY	SZ	214	EP	2		01:49	42.22		
KWE	SZ	295	EP	3		01:49	52.24		
KWE	SZ	295	ES	3		01:50	23.08		
KUF	SZ	216	EP	3		01:49	42.61		
KUF	SZ	216	ES	3		01:50	05.73		
HCG	SZ	434	EP	2		01:50	09.50		
HTR	SZ	419	EP	3		01:50	07.69		
CKE	SZ	390	EP	3		01:50	04.16		
CDU	SZ	389	EP	3		01:50	03.63		

September 16 1993 Time: 13:26 31.1 UTC Magnitude: 1.8 ML
Lat: 52.314N Lon: 2.731W Depth: 14.1 km
Grid Ref: 350.14 kmE 268.71 kmN RMS: 0.16 secs
Locality: LUDLOW, SHROPSHIRE Quality: B
Comments: 7KM SOUTH OF LUDLOW

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WME	SZ	160	EP	3		13:26	56.33		
YRC	SZ	162	EP	3		13:26	56.20		
WPM	SZ	132	EP	2		13:26	52.46		
YLL	SZ	134	EP	2		13:26	52.42		
YRE	SZ	137	EP	3		13:26	53.05		
YRH	SZ	141	EP	2		13:26	53.75		
WFB	SZ	98	EP	3		13:26	47.37		
MCH	SN	40				13:26	43.28	192	0.21
MCH	SE	40	ES	1		13:26	43.19		
MCH	SE	40				13:26	43.30	119	0.09
MCH	SZ	40	IP		C	13:26	38.00		
SSP	SZ	28	IP		C	13:26	36.68		
SSP	SN	28	ES	2		13:26	40.36		
SSP	SN	28				13:26	40.69	118	0.11
SSP	SE	28	ES	2		13:26	40.56		
SSP	SE	28				13:26	40.76	106	0.13
HAE	SZ	33	IP		D	13:26	37.30		
HCG	SZ	63	IP		C	13:26	41.88		
HGH	SZ	75	EP	2		13:26	43.88		
HLM	SZ	25	IP	1	C	13:26	36.00		
HTR	SZ	45	IP	1	C	13:26	38.80		
SBD	SZ	75	EP	3		13:26	43.63		
HBL2	SZ	36	IP		C	13:26	37.57		
CWF	SZ	108	EP	1		13:26	48.56		
CWF	SN	108	ES	2		13:27	00.87		
CWF	SN	108				13:27	01.52	25	0.06
CWF	SE	108				13:27	01.47	19	0.16
KWE	SZ	99	EP	2		13:26	46.98		

September 16 1993 Time: 22:16 35.8 UTC Magnitude: 0.4 ML
Lat: 55.238N Lon: 3.488W Depth: 4.3 km
Grid Ref: 305.38 kmE 594.83 kmN RMS: 0.12 secs
Locality: JOHNSTONEBRIDGE, D & G Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ESK	SN	20	ES	2		22:16	42.28		
ESK	SN	20				22:16	43.32	8	0.19
ESK	SE	20				22:16	42.38	11	0.12
ESK	SZ	20	IP		C	22:16	39.76		
ECK	SZ	24	IP	1	C	22:16	40.43		
ECK	SZ	24	ES	3		22:16	43.33		
BWH	SZ	13	IP		C	22:16	38.61		
BWH	SZ	13	ES	3		22:16	40.30		
BBH	SZ	37	IP	1	C	22:16	42.72		
BBH	SZ	37	ES	3		22:16	47.32		
BHH	SZ	24	EP	2		22:16	40.52		
BHH	SN	24				22:16	43.65	24	0.11
BHH	SE	24	ES	2		22:16	43.48		
BHH	SE	24				22:16	43.55	27	0.17
BNA	SZ	32	IP	1	D	22:16	41.45		

September 17 1993 Time: 01:39 54.4 UTC Magnitude: 2.3 ML
Lat: 52.316N Lon: 2.729W Depth: 14.5 km
Grid Ref: 350.29 kmE 268.97 kmN RMS: 0.15 secs
Locality: LUDLOW, SHROPSHIRE Quality: B
Comments: 6KM SOUTH OF LUDLOW

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	294	EP	2		01:40	35.05		
CR2	SN	294				01:41	08.21	6	0.10
CR2	SE	294	ES	3		01:41	04.50		
CR2	SE	294				01:41	07.13	7	0.11
CCO	SZ	298	EP	2		01:40	35.60		
CCO	SZ	298	ES	3		01:41	05.35		
CST	SZ	291	EP	2		01:40	34.87		
CBW	SZ	293	EP	2		01:40	34.96		
CBW	SZ	293	ES	3		01:41	04.88		
CPZ	SZ	312	EP	3		01:40	37.45		
CME	SZ	294	EP	2		01:40	35.13		
CME	SN	294	EP	3		01:40	35.79		
CME	SN	294	ES	3		01:41	05.94		
CGW	SZ	302	EP	2		01:40	36.07		
CTR	SZ	293	EP	3		01:40	35.04		
CTR	SZ	293	ES	3		01:41	04.10		
CRA	SZ	295	EP	2		01:40	35.16		
SSP	SZ	28	IP		C	01:40	00.06		
SSP	SN	28	ES	2		01:40	03.99		
HBL2	SZ	36	IP	1	C	01:40	00.99		
HBL2	SZ	36				01:40	01.12	209	0.07
MCH	SE	40	ES	1		01:40	06.61		
MCH	SZ	40	IP		C	01:40	01.38		
MCH	SZ	40				01:40	01.69	137	0.10
SBD	SZ	75	IP	1	D	01:40	07.04		
SBD	SZ	75	ES	2		01:40	16.01		
HAE	SZ	33	IP		D	01:40	00.69		
HCG	SZ	63	IP		C	01:40	05.27		
HCG	SZ	63	ES	2		01:40	12.79		
HGH	SZ	76	IP	1	D	01:40	07.19		
HTR	SZ	45	IP		C	01:40	02.19		
HLM	SZ	25	IP		D	01:39	59.38		
HLM	SZ	25	ES	2		01:40	02.85		
CWF	SZ	107	EP	1		01:40	11.74		
CWF	SN	107	ES	2		01:40	24.30		
CWF	SN	107				01:40	27.38	95	0.09
CWF	SE	107				01:40	27.32	150	0.09
KTG	SZ	159	EP	2		01:40	19.87		
KTG	SZ	159	ES	3		01:40	37.71		
KSY	SZ	162	EP	1		01:40	19.95		
KWE	SZ	98	EP	1	C	01:40	10.34		
KUF	SZ	162	EP	2		01:40	20.10		
KUF	SZ	162	ES	3		01:40	38.30		
KEY	SZ	128	EP	2		01:40	15.51		
WCB	SN	170	ES	3		01:40	39.84		
WCB	SN	170				01:40	41.60	17	0.15
WCB	SE	170				01:40	43.76	22	0.15
WME	SZ	160	EP	3		01:40	19.52		
WME	SZ	160	ES	3		01:40	37.65		
WLF	SZ	156	EP	2	D	01:40	18.77		
WLF	SZ	156	ES	2		01:40	36.19		
YRC	SZ	162	EP	3		01:40	19.46		

YRC	SZ	162	ES	3		01:40	38.50		
WPM	SZ	132	IP	1	D	01:40	15.74		
YLL	SZ	134	IP	1	D	01:40	15.83		
YLL	SZ	134	ES	3		01:40	30.82		
YRE	SZ	137	IP	1	D	01:40	16.49		
YRH	SZ	141	EP	1	D	01:40	17.11		
YRH	SZ	141	ES	3		01:40	33.54		
WFB	SZ	98	EP	2		01:40	10.59		
WIM	SZ	242	EP	2		01:40	29.43		
WCB	SZ	170	EP	2		01:40	20.76		
HTL	SN	191				01:40	48.91	29	0.17
HTL	SE	191				01:40	47.53	33	0.20
HTL	SZ	191	EP	2		01:40	23.01		
HSA	SZ	117	EP	1		01:40	12.99		
HSA	SZ	117	ES	2		01:40	27.12		
HPE	SZ	146	IP	1	D	01:40	17.57		
HPE	SZ	146	ES	2		01:40	34.87		
HEX	SZ	158	EP	1	D	01:40	19.25		

September 17 1993 Time: 05:29 0.7 UTC Magnitude: 0.3 ML
Lat: 57.033N Lon: 5.778W Depth: 2.5 km
Grid Ref: 170.78 kmE 799.83 kmN RMS: 0.17 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	35				05:29	12.02	4	0.17
KPL	SE	35	ES	2		05:29	11.74		
KPL	SE	35				05:29	12.02	3	0.18
KNR	SZ	55	EP	3		05:29	10.47		
KAR	SZ	13	IP	1	C	05:29	03.44		
KAR	SZ	13	ES	3		05:29	05.06		
KSB	SZ	29	EP	2		05:29	06.35		
KSB	SZ	29	ES	2		05:29	09.83		
KPL	SZ	35	EP	3		05:29	07.31		

September 17 1993 Time: 05:57 52.6 UTC Magnitude: 1.8 ML
Lat: 50.242N Lon: 6.650W Depth: 2.4 km
Grid Ref: 68.51 kmE 48.42 kmN RMS: 0.27 secs
Locality: SCILLY ISLES, CORNWALL Quality: D
Comments: SW OF SCILLY ISLES

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	106	EP	1	C	05:58	10.65		
CR2	SN	106	ES	2		05:58	22.99		
CR2	SN	106				05:58	24.61	20	0.06
CR2	SE	106				05:58	24.64	18	0.05
CGH	SZ	108	ES	2		05:58	23.93		
CCO	SZ	105	EP	2		05:58	10.18		
CCO	SZ	105	ES	2		05:58	22.30		
CCA	SZ	102	EP	2		05:58	09.93		
CCA	SZ	102	ES	2		05:58	21.94		
CST	SZ	106	EP	2		05:58	10.55		
CST	SZ	106	ES	2		05:58	23.21		
CBW	SZ	110	EP	2		05:58	10.90		
CPZ	SZ	77	EP			05:58	05.37		
CME	SZ	105	EP	2		05:58	10.23		
CGW	SZ	103	EP	2		05:58	09.99		
CTR	SZ	107	EP	2		05:58	10.64		

September 17 1993 Time: 10:08 21.8 UTC Magnitude: 0.4 ML
Lat: 57.027N Lon: 5.757W Depth: 3.0 km
Grid Ref: 172.04 kmE 799.08 kmN RMS: 0.10 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KAR	SZ	13	IP	1	C	10:08	24.51		
KAR	SZ	13	ES	3		10:08	26.16		
KSB	SZ	29	EP	3		10:08	27.16		
KSB	SZ	29	ES	3		10:08	31.06		
KPL	SZ	35	EP	3		10:08	28.42		
KPL	SN	35	ES	2		10:08	32.85		
KPL	SN	35				10:08	33.11	5	0.15
KPL	SE	35				10:08	33.01	5	0.17
KNR	SZ	53	EP	3		10:08	31.21		
KNR	SZ	53	ES	2		10:08	37.95		
KAC	SZ	60	EP	3		10:08	32.28		

September 17 1993 Time: 12:19 5.8 UTC Magnitude: 0.5 ML
Lat: 52.740N Lon: 4.960W Depth: 13.9 km
Grid Ref: 200.19 kmE 319.93 kmN RMS: 0.22 secs
Locality: IRISH SEA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ECP	SZ	114	EP	2		12:19	23.60		
ECP	SZ	114	ES	2		12:19	36.60		
ECB	SZ	130	EP	2		12:19	26.90		
ETA	SZ	85	EP	2		12:19	19.90		
WCB	SN	76				12:19	28.36	1	0.13
WCB	SE	76	ES	3		12:19	27.15		
WCB	SE	76				12:19	28.57	1	0.10
WLF	SZ	72	EP	3		12:19	17.24		
YRC	SZ	63	EP	1		12:19	15.74		
YRC	SZ	63				12:19	24.38	1	0.19
YLL	SZ	69	EP	1		12:19	17.25		
YLL	SZ	69	ES	2		12:19	25.57		
YLL	SZ	69				12:19	26.00	3	0.12
YRE	SZ	45	EP	2		12:19	13.55		
YRE	SZ	45	ES	2		12:19	19.32		
YRE	SZ	45				12:19	19.37	9	0.10
YRH	SZ	25	IP	1	C	12:19	10.49		
YRH	SZ	25	ES	2		12:19	14.00		
YRH	SZ	25				12:19	14.23	29	0.07
WFB	SZ	63	EP	2		12:19	16.39		
WCB	SZ	76	EP	1		12:19	18.23		

September 18 1993 Time: 03:14 15.2 UTC Magnitude: 0.8 ML
Lat: 56.124N Lon: 3.730W Depth: 2.0 km
Grid Ref: 292.48 kmE 693.67 kmN RMS: 0.08 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EAU	SZ	36	IP			03:14	21.82		
EBL	SZ	58	EP	2		03:14	25.33		
EAB	SZ	39	EP	2		03:14	22.25		
EAB	SZ	39	ES	3		03:14	27.48		
EBH	SZ	20	IP		D	03:14	18.95		
EBH	SZ	20	ES	3		03:14	22.03		
EDU	SZ	65	EP	2		03:14	26.52		
EDU	SZ	65	ES	3		03:14	34.89		
ELO	SZ	39	EP	2		03:14	22.24		
ELO	SZ	39	ES	3		03:14	27.44		
PGB	SN	58				03:14	40.61	12	1.17
PGB	SE	58	ES	3		03:14	32.99		
PGB	SE	58				03:14	42.77	15	0.96
PCO	SZ	27	IP	1	C	03:14	20.49		
PCO	SZ	27	ES	3		03:14	23.99		
EDI	SZ	41	IP	1	D	03:14	22.64		
EDI	SN	41				03:14	34.21	20	1.19
EDI	SE	41	ES	3		03:14	27.94		
EDI	SE	41				03:14	35.13	11	1.06

September 21 1993 Time: 02:00 51.0 UTC Magnitude: 0.5 ML
Lat: 56.126N Lon: 3.731W Depth: 0.9 km
Grid Ref: 292.41 kmE 693.98 kmN RMS: 0.06 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PCO	SZ	28	EP	3		02:00	56.48		
EDI	SZ	41	EP	2		02:00	58.74		
EDI	SN	41	ES	3		02:01	04.39		
EDI	SN	41				02:01	05.26	9	1.16
EDI	SE	41				02:01	09.91	14	1.03
EAU	SZ	36	EP	3		02:00	57.84		
EAU	SZ	36	ES	3		02:01	02.79		
EAB	SZ	38	EP	3		02:00	58.39		
EAB	SZ	38	ES	3		02:01	03.54		
EBH	SZ	19	EP	2		02:00	55.02		
EBH	SZ	19	ES	3		02:00	58.10		

September 21 1993 Time: 03:58 48.2 UTC Magnitude: 0.5 ML
Lat: 52.169N Lon: 2.498W Depth: 15.3 km
Grid Ref: 365.97 kmE 252.45 kmN RMS: 0.16 secs
Locality: BROMYARD, HER & WOR Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	39	ES	2		03:59	00.65		
MCH	SN	39				03:59	00.92	5	0.14
MCH	SE	39				03:59	01.17	4	0.16
MCH	SZ	39	IP	1	C	03:58	55.27		
HAE	SZ	15	IP		C	03:58	51.92		
HAE	SZ	15	ES	2		03:58	54.17		
HGH	SZ	63	EP	3		03:58	58.72		
HTR	SZ	54	EP	2		03:58	57.47		
HLM	SZ	47	EP	3		03:58	56.67		
HLM	SZ	47	ES	3		03:59	02.27		

September 21 1993 Time: 07:25 44.9 UTC Magnitude: 1.1 ML
Lat: 52.160N Lon: 2.474W Depth: 14.6 km
Grid Ref: 367.57 kmE 251.49 kmN RMS: 0.17 secs
Locality: BROMYARD, HER & WOR Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	52	EP	1		07:25	53.95		
SSP	SN	52				07:26	01.05	12	0.13
SSP	SE	52	ES	2		07:26	00.65		
SSP	SE	52				07:26	01.29	9	0.19
MCH	SN	40	ES	2		07:25	57.37		
MCH	SN	40				07:25	57.57	19	0.10
MCH	SE	40				07:25	57.99	13	0.09
MCH	SZ	40	IP		C	07:25	52.03		
SBD	SZ	99	EP	3		07:26	01.11		
HAE	SZ	15	IP		C	07:25	48.65		
HAE	SZ	15	ES	2		07:25	50.88		
HCG	SZ	83	IP		C	07:25	58.81		
HCG	SZ	83	ES	2		07:26	08.67		
HGH	SZ	63	EP	2		07:25	55.45		
HTR	SZ	55	EP	1	C	07:25	54.18		
HLM	SZ	49	EP	2		07:25	53.20		

September 21 1993 Time: 09:17 6.8 UTC Magnitude: 1.5 ML
Lat: 53.041N Lon: 2.198W Depth: 4.4 km
Grid Ref: 386.75 kmE 349.39 kmN RMS: 0.08 secs
Locality: STOKE-ON-TRENT, STAFFS Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SN	69	ES	2		09:17	27.09		
CWF	SN	69				09:17	27.88	28	0.14
CWF	SE	69				09:17	27.47	24	0.22
KWE	SZ	24	EP	2		09:17	11.33		
KWE	SZ	24	ES	2		09:17	14.67		
SSP	SZ	93	EP	1		09:17	22.58		
SSP	SN	93	ES	3		09:17	33.73		
SSP	SN	93				09:17	34.26	13	0.12
SSP	SE	93				09:17	35.89	6	0.24
HCG	SZ	127	ES	2		09:17	42.73		
HLM	SZ	75	EP	2		09:17	19.30		
HLM	SZ	75	ES	2		09:17	28.41		
HTR	SZ	129	ES	3		09:17	43.31		
SBD	SZ	73	EP	2		09:17	19.31		
WCB	SN	161				09:17	53.00	3	0.20
WCB	SE	161	ES	2		09:17	51.21		
WCB	SE	161				09:17	52.46	5	0.23
YLL	SZ	133	EP	2		09:17	28.61		
YRH	SZ	165	EP	2		09:17	33.45		
WFB	SZ	130	EP	2		09:17	28.14		
WFB	SZ	130	ES	2		09:17	43.11		
MCH	SN	128	ES	2		09:17	43.09		
MCH	SN	128				09:17	46.34	17	0.24
MCH	SE	128				09:17	47.09	14	0.09

September 22 1993 Time: 01:00 55.6 UTC Magnitude: 1.3 ML
Lat: 53.121N Lon: 1.059W Depth: 1.0 km
Grid Ref: 462.98 kmE 358.61 kmN RMS: 0.28 secs
Locality: BILSTHORPE, NOTTS Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	46	EP	2		01:01	04.07		
CWF	SN	46				01:01	13.08	7	0.17
CWF	SE	46				01:01	14.30	7	0.15
KSY	SZ	36	EP	2		01:01	02.43		
SSP	SN	159	ES	2		01:01	40.61		
SSP	SN	159				01:01	43.03	2	0.24
SSP	SE	159				01:01	43.23	3	0.20
HAE	SZ	157	ES	2		01:01	40.06		
SBD	SZ	150	ES	3		01:01	37.77		
HPK	SZ	100	EP	2		01:01	13.15		
HPK	SN	100				01:01	29.62	37	0.18
HPK	SE	100	ES	2		01:01	25.00		
HPK	SE	100				01:01	29.50	28	0.18
LHO	SZ	71	EP	2		01:01	07.48		

September 23 1993 Time: 00:54 22.2 UTC Magnitude: 0.3 ML
Lat: 56.063N Lon: 3.986W Depth: 3.7 km
Grid Ref: 276.34 kmE 687.29 kmN RMS: 0.18 secs
Locality: BANNOCKBURN, CENTRAL Quality: C
6KM SW OF BANNOCKBURN

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EBH	SZ	36	EP	2		00:54	28.85		
EBH	SZ	36	ES	3		00:54	33.47		
EAB	SZ	26	EP	2	C	00:54	27.07		
EAB	SZ	26	ES	3		00:54	30.54		
PCO	SZ	11	IP		C	00:54	24.57		
PCO	SZ	11	ES	2		00:54	25.83		
PGB	SE	42	ES	3		00:54	35.80		
PGB	SE	42				00:54	42.39	3	0.18
PGB	SN	42				00:54	37.44	2	0.21

September 23 1993 Time: 02:37 44.8 UTC Magnitude: 1.2 ML
Lat: 56.129N Lon: 3.730W Depth: 0.6 km
Grid Ref: 292.46 kmE 694.24 kmN RMS: 0.09 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EAU	SZ	36	EP	2	D	02:37	51.71		
EAU	SZ	36	ES	3		02:37	56.92		
EBL	SZ	58	IP	1	D	02:37	55.28		
ESY	SZ	74	EP	3		02:37	57.94		
EAB	SZ	38	IP	1	C	02:37	52.14		
EAB	SZ	38	ES	3		02:37	57.42		
EBH	SZ	19	EP	2	D	02:37	48.83		
EBH	SZ	19	ES	3		02:37	51.97		
EDU	SZ	64	EP	3		02:37	56.34		
EDU	SZ	64	ES	3	C	02:38	04.94		
ELO	SZ	38	EP	2	C	02:37	52.12		
ELO	SZ	38	ES	3		02:37	57.16		
PGB	SZ	59	EP	2		02:37	55.55		
PGB	SN	59	ES	3		02:38	03.06		
PGB	SN	59				02:38	23.88	24	1.27
PGB	SE	59				02:38	20.72	34	0.97
PCA	SZ	58	EP	3		02:37	55.30		
PMS	SZ	71	EP	2		02:37	57.27		
PCO	SZ	28	EP			02:37	50.37		
PCO	SZ	28	ES	3		02:37	54.44		
EDI	SZ	41	IP	1	D	02:37	52.55		
EDI	SE	41				02:38	09.02	48	0.96
EDI	SN	41	ES	3		02:37	58.16		
EDI	SN	41				02:38	04.80	45	1.06

September 23 1993 Time: 02:44 13.8 UTC Magnitude: 0.6 ML
Lat: 56.128N Lon: 3.738W Depth: 1.2 km
Grid Ref: 291.98 kmE 694.16 kmN RMS: 0.09 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDU	SZ	65	EP	3		02:44	25.18		
ELO	SZ	38	EP	2	D	02:44	20.99		
ELO	SZ	38	ES	3		02:44	26.03		
EAU	SZ	36	IP	1	D	02:44	20.65		
EBL	SZ	59	EP	2	D	02:44	24.12		
EAB	SZ	38	EP	2		02:44	20.99		
EAB	SZ	38	ES	3		02:44	25.93		
EBH	SZ	20	IP		D	02:44	17.77		
EBH	SZ	20	ES	1		02:44	20.84		
EDI	SZ	41	IP	1		02:44	21.45		
EDI	SN	41	ES	3		02:44	27.10		
EDI	SN	41				02:44	31.84	12	1.25
EDI	SE	41				02:44	31.62	9	1.12
PGB	SN	58	ES	3		02:44	31.94		
PGB	SN	58				02:44	48.93	8	1.40
PGB	SE	58				02:44	58.17	8	1.17
PCO	SZ	27	EP	2		02:44	19.23		
PCO	SZ	27	ES	3		02:44	23.04		

September 23 1993 Time: 17:21 55.3 UTC Magnitude: -0.2 ML
Lat: 55.236N Lon: 3.489W Depth: 4.5 km
Grid Ref: 305.31 kmE 594.59 kmN RMS: 0.13 secs
Locality: JOHNSTONEBRIDGE, D & G Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SZ	24	EP	3		17:21	59.95		
BHH	SN	24				17:22	03.05	6	0.11
BHH	SE	24	ES	3		17:22	02.79		
BHH	SE	24				17:22	02.96	7	0.14
BWH	SZ	13	IP	1	C	17:21	58.02		
BWH	SZ	13	ES	2		17:21	59.66		
ESK	SN	20				17:22	02.76	2	0.18
ESK	SE	20	ES	2		17:22	01.74		
ESK	SE	20				17:22	01.81	3	0.09
ESK	SZ	20	EP	2		17:21	59.19		
ECK	SZ	24	EP	2		17:21	59.89		
ECK	SZ	24	ES	3		17:22	02.83		

September 23 1993 Time: 18:36 25.5 UTC Magnitude: -0.1 ML
Lat: 55.236N Lon: 3.488W Depth: 4.2 km
Grid Ref: 305.38 kmE 594.55 kmN RMS: 0.12 secs
Locality: JOHNSTONEBRIDGE, D & G Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SZ	23	EP	2		18:36	29.82		
BHH	SN	23				18:36	33.29	7	0.15
BHH	SE	23	ES	2		18:36	33.11		
BHH	SE	23				18:36	33.19	11	0.16
BWH	SZ	13	IP		C	18:36	28.24		
BWH	SZ	13	ES	2		18:36	29.86		
ESK	SN	20				18:36	32.47	3	0.10
ESK	SE	20	ES	2		18:36	31.96		
ESK	SE	20				18:36	32.04	3	0.08
ESK	SZ	20	EP	2		18:36	29.39		
ECK	SZ	24	EP	2		18:36	30.07		
ECK	SZ	24	ES	2		18:36	33.02		

September 23 1993 Time: 19:04 36.6 UTC Magnitude: 0.2 ML
Lat: 57.028N Lon: 5.791W Depth: 2.8 km
Grid Ref: 169.95 kmE 799.40 kmN RMS: 0.14 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	36				19:04	47.99	3	0.12
KPL	SE	36	ES	3		19:04	47.68		
KPL	SE	36				19:04	47.97	3	0.19
KNR	SZ	55	EP	3		19:04	46.27		
KAR	SZ	13	IP	1	C	19:04	39.29		
KAR	SZ	13	ES	2		19:04	40.95		
KSB	SZ	30	IP	1	C	19:04	42.30		
KSB	SZ	30	ES	3		19:04	45.98		
KAC	SZ	60	EP	3	C	19:04	47.35		
KPL	SZ	36	EP	3		19:04	42.92		

September 23 1993 Time: 19:55 56.5 UTC Magnitude: 0.2 ML
Lat: 55.237N Lon: 3.490W Depth: 3.9 km
Grid Ref: 305.28 kmE 594.68 kmN RMS: 0.14 secs
Locality: JOHNSTONEBRIDGE, D & G Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SZ	24	EP	2		19:56	01.13		
BHH	SN	24	ES	3		19:56	04.14		

BHH	SN	24				19:56	04.33	15	0.14
BHH	SE	24				19:56	04.22	16	0.15
BNA	SZ	31	EP	3		19:56	02.10		
BNA	SZ	31	ES	3		19:56	05.95		
BWH	SZ	13	IP		C	19:55	59.29		
BWH	SZ	13	ES	2		19:56	00.93		
BBH	SZ	38	EP	3		19:56	03.34		
BBH	SZ	38	ES	3		19:56	08.07		
ESK	SN	20	ES	2		19:56	02.98		
ESK	SN	20				19:56	04.01	5	0.17
ESK	SE	20				19:56	03.08	5	0.10
ESK	SZ	20	IP		C	19:56	00.45		
ECK	SZ	24	IP	1	C	19:56	01.15		
ECK	SZ	24	ES	3		19:56	04.06		

September 24 1993 Time: 10:54 28.0 UTC Magnitude: 0.4 ML
Lat: 57.022N Lon: 5.772W Depth: 2.8 km
Grid Ref: 171.10 kmE 798.64 kmN RMS: 0.10 secs
Locality: MALLAIG, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	36	ES	2		10:54	39.00		
KPL	SN	36				10:54	39.35	4	0.14
KPL	SE	36				10:54	39.34	5	0.11
KNR	SZ	54	EP	3		10:54	37.60		
KAR	SZ	12	IP	1	C	10:54	30.58		
KAR	SZ	12	ES	3		10:54	32.23		
KSB	SZ	30	EP	2		10:54	33.58		
KSB	SZ	30	ES	3		10:54	37.28		
KSK	SZ	75	EP	3		10:54	40.83		
KPL	SZ	36	EP	2		10:54	34.64		
KAC	SZ	60	EP	3		10:54	38.69		

September 24 1993 Time: 10:58 46.3 UTC Magnitude: 0.1 ML
Lat: 57.027N Lon: 5.779W Depth: 2.5 km
Grid Ref: 170.67 kmE 799.24 kmN RMS: 0.12 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	36	ES	3		10:58	57.40		
KPL	SN	36				10:58	57.67	2	0.10
KPL	SE	36				10:58	57.70	3	0.14
KAR	SZ	13	EP	1		10:58	48.96		
KAR	SZ	13	ES	3		10:58	50.58		
KSB	SZ	30	EP	2		10:58	51.96		
KSB	SZ	30	ES	3		10:58	55.68		
KPL	SZ	36	EP	3		10:58	52.80		
KAC	SZ	60	EP	3		10:58	56.95		

September 24 1993 Time: 11:00 47.7 UTC Magnitude: 0.7 ML
Lat: 57.026N Lon: 5.785W Depth: 2.2 km
Grid Ref: 170.31 kmE 799.06 kmN RMS: 0.09 secs
Locality: MALLAIG, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KNR	SZ	55	EP	2		11:00	57.36		
KAR	SZ	12	EP	2		11:00	50.33		
KAR	SZ	12	ES	3		11:00	51.97		
KSB	SZ	30	IP	1	C	11:00	53.33		
KAC	SZ	60	EP	3		11:00	58.36		
KPL	SZ	36	EP	2		11:00	54.26		
KPL	SE	36	ES	3		11:00	58.81		
KPL	SN	36				11:00	59.09	7	0.11
KPL	SE	36				11:00	59.08	10	0.13

September 24 1993 Time: 11:45 32.2 UTC Magnitude: 1.4 ML
Lat: 53.317N Lon: 1.706W Depth: 2.2 km
Grid Ref: 419.57 kmE 380.08 kmN RMS: 0.39 secs
Locality: BAKEWELL, DERBYSHIRE Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	138	EP	1		11:45	54.52		
SSP	SN	138				11:46	14.73	5	0.22
SSP	SE	138	ES	2		11:46	11.52		
SSP	SE	138				11:46	13.87	8	0.23
HAE	SZ	153	EP	2		11:45	57.54		
HCG	SZ	172	IP	1	D	11:45	59.75		
HCG	SZ	172	ES	2		11:46	19.76		
HLM	SZ	119	EP	1		11:45	52.82		
HLM	SZ	119	ES	2		11:46	06.43		
SBD	SZ	114	ES	2		11:46	04.59		
KWE	SZ	35	EP	1		11:45	38.10		
KWE	SZ	35	ES	2		11:45	43.00		
YRE	SZ	186	EP	2		11:46	00.99		
WFB	SZ	172	EP	2		11:45	59.30		
WFB	SZ	172	ES	2		11:46	19.24		

September 25 1993 Time: 01:42 3.8 UTC Magnitude: 1.7 ML
Lat: 57.538N Lon: 5.353W Depth: 4.0 km
Grid Ref: 199.31 kmE 854.71 kmN RMS: 0.24 secs
Locality: COULIN FOREST, HIGHLAND Quality: C
Comments: FELT COULIN Intensity: 2+

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDR	SZ	184	EP	3		01:42	33.17		
PGB	SN	200				01:43	02.80	6	0.27
PGB	SE	200	ES	3		01:42	57.21		
PGB	SE	200				01:43	01.73	4	0.19
ELO	SZ	155	EP	3		01:42	29.20		
ELO	SZ	155	ES	3		01:42	47.16		
EDI	SN	224	ES	3		01:43	02.79		
EDI	SN	224				01:43	08.20	3	0.17
EDI	SE	224				01:43	08.14	5	0.20
EAB	SZ	163	EP	3		01:42	30.34		
EAB	SZ	163	ES	3		01:42	49.20		
EBH	SZ	182	EP	3		01:42	33.09		
EDU	SZ	180	EP	3		01:42	32.82		
EDU	SZ	180	ES	3		01:42	53.07		
MCD	SN	126	ES			01:42	38.82		
MCD	SN	126				01:42	41.50	32	0.19
MCD	SE	126				01:42	41.55	37	0.12
MCD	SZ	126	EP	3		01:42	24.72		
MME	SZ	146	EP	3		01:42	27.88		
MME	SZ	146	ES	3		01:42	44.77		
MVH	SZ	82	EP	3		01:42	17.58		
KNR	SZ	83	EP	2		01:42	18.17		
KNR	SZ	83	ES	3		01:42	27.64		
KAR	SZ	75	EP	3		01:42	16.49		
KSB	SZ	37	EP	2	D	01:42	10.42		
KAC	SZ	5	IP	1	C	01:42	05.65		
KAC	SZ	5	ES	3		01:42	06.14		
KSK	SZ	81	EP	3		01:42	17.60		
KPL	SZ	29	EP	2		01:42	08.97		
KPL	SN	29				01:42	12.64	76	0.13
KPL	SE	29	ES	3		01:42	12.55		
KPL	SE	29				01:42	12.80	80	0.14

September 25 1993 Time: 09:56 3.0 UTC Magnitude: 0.9 ML
Lat: 54.738N Lon: 2.758W Depth: 3.5 km
Grid Ref: 351.19 kmE 538.45 kmN RMS: 0.09 secs
Locality: PLUMPTON, CUMBRIA Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SZ	49	EP	2		09:56	11.94		
BHH	SN	49	ES	3		09:56	17.90		
BHH	SN	49				09:56	19.21	5	0.16
BHH	SE	49				09:56	18.73	6	0.17
BTA	SZ	19	EP	3		09:56	06.79		
BTA	SN	19				09:56	09.87	44	0.20
BTA	SE	19	ES	2		09:56	09.56		
BTA	SE	19				09:56	09.91	59	0.21
BWH	SZ	75	EP	3		09:56	16.07		
BBH	SZ	45	EP	3		09:56	11.26		
BDL	SZ	14	IP		D	09:56	05.81		
ESK	SN	70				09:56	24.51	4	0.13
ESK	SE	70	ES	3		09:56	23.74		
ESK	SE	70				09:56	24.73	4	0.12
ESK	SZ	70	EP	3		09:56	15.30		
XAL	SZ	38	EP	3		09:56	09.75		
GIM	SZ	121	EP	4		09:56	23.54		
GIM	SN	121				09:56	38.90	3	0.23
GIM	SE	121	ES	4		09:56	37.74		
GIM	SE	121				09:56	39.14	3	0.19
GCD	SZ	77	EP	3		09:56	16.27		
XDE	SZ	54	EP	2		09:56	12.54		
BBO	SZ	32	EP	2	C	09:56	08.72		
BBO	SN	32	ES	3		09:56	12.76		
BBO	SN	32				09:56	13.35	23	0.24
BBO	SE	32				09:56	13.33	29	0.27
CKE	SZ	28	EP	2		09:56	08.30		
CSF	SZ	45	EP	3		09:56	10.98		
CDU	SZ	53	EP	3		09:56	12.32		
LMI	SZ	68	EP	2		09:56	14.80		

September 26 1993 Time: 21:46 17.1 UTC Magnitude: 1.3 ML
Lat: 52.356N Lon: 1.850W Depth: 9.4 km
Grid Ref: 410.23 kmE 273.18 kmN RMS: 0.38 secs
Locality: BIRMINGHAM, W MIDLANDS Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	86	EP	2		21:46	30.97		
SSP	SN	86	ES	2		21:46	40.95		
SSP	SN	86				21:46	41.05	6	0.17
SSP	SE	86				21:46	41.32	5	0.19
WFB	SZ	153	ES	2		21:46	58.35		
CWF	SZ	56	IP	1	C	21:46	26.48		
CWF	SN	56	ES	3		21:46	33.29		
CWF	SN	56				21:46	37.04	22	0.13
CWF	SE	56				21:46	37.02	27	0.09
MCH	SN	88	ES	2		21:46	41.35		
MCH	SN	88				21:46	43.14	10	0.06
MCH	SE	88				21:46	41.47	8	0.11
MCH	SZ	88	IP	1	C	21:46	30.97		
SBD	SZ	113	EP	2		21:46	36.10		
HAE	SZ	59	IP		C	21:46	26.63		
HCG	SZ	123	EP	2		21:46	37.03		
HGH	SZ	103	EP	1		21:46	33.67		
HTR	SZ	102	IP	1	D	21:46	33.04		
HLM	SZ	73	EP	1		21:46	28.77		

SSW	SZ	43	IP		D	21:46	24.77		

September 27 1993 Time: 03:55 7.5 UTC Magnitude: 0.6 ML
Lat: 55.238N Lon: 3.490W Depth: 4.2 km
Grid Ref: 305.29 kmE 594.79 kmN RMS: 0.15 secs
Locality: JOHNSTONEBRIDGE, D & G Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ESK	SN	20	ES	2		03:55	13.97		
ESK	SN	20				03:55	15.02	11	0.17
ESK	SE	20				03:55	14.09	14	0.11
ESK	SZ	20	IP		C	03:55	11.44		
ECK	SZ	24	IP		D	03:55	12.11		
ECK	SZ	24	ES	2		03:55	14.95		
BHH	SZ	24	IP		D	03:55	12.21		
BHH	SN	24				03:55	15.35	38	0.13
BHH	SE	24	ES	2		03:55	15.18		
BHH	SE	24				03:55	15.25	40	0.19
BNA	SZ	32	IP		D	03:55	13.13		
BNA	SZ	32	ES	3		03:55	16.97		
BWH	SZ	13	IP		C	03:55	10.29		
BWH	SZ	13	ES	2		03:55	11.92		
BBH	SZ	38	IP	1	C	03:55	14.42		
BBH	SZ	38	ES	3		03:55	18.98		

September 27 1993 Time: 03:55 32.5 UTC Magnitude: 0.2 ML
Lat: 55.243N Lon: 3.492W Depth: 6.1 km
Grid Ref: 305.14 kmE 595.29 kmN RMS: 0.15 secs
Locality: JOHNSTONEBRIDGE, D & G Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SN	24				03:55	40.40	18	0.13
BHH	SE	24	ES	2		03:55	40.23		
BHH	SE	24				03:55	40.30	18	0.18
BNA	SZ	32	EP	3		03:55	38.19		
BWH	SZ	13	IP		C	03:55	35.35		
BWH	SZ	13	ES	2		03:55	36.97		
BBH	SZ	38	EP	3		03:55	39.47		
ESK	SN	20	ES	3		03:55	39.02		
ESK	SN	20		3		03:55	40.07	5	0.18
ESK	SE	20				03:55	39.13	6	0.11
ESK	SZ	20	IP	1	C	03:55	36.49		
ECK	SZ	24	EP	2		03:55	37.16		
ECK	SZ	24	ES	3		03:55	40.00		
BHH	SZ	24	EP	3		03:55	37.26		

September 27 1993 Time: 04:39 3.6 UTC Magnitude: -0.2 ML
Lat: 55.239N Lon: 3.492W Depth: 4.7 km
Grid Ref: 305.13 kmE 594.94 kmN RMS: 0.12 secs
Locality: JOHNSTONEBRIDGE, D & G Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SZ	24	EP	3		04:39	08.41		
BHH	SE	24	ES	2		04:39	11.35		
BHH	SN	24				04:39	11.51	5	0.15
BHH	SE	24				04:39	11.41	7	0.16
BWH	SZ	13	EP	2		04:39	06.44		
BWH	SZ	13	ES	2		04:39	08.11		
ESK	SZ	20	EP	2		04:39	07.61		
ESK	SE	20	ES	2		04:39	10.17		
ESK	SN	20				04:39	11.09	3	0.29
ESK	SE	20				04:39	10.20	3	0.08
ECK	SZ	24	EP	2	C	04:39	08.32		
ECK	SZ	24	ES	2		04:39	11.26		

September 27 1993 Time: 09:39 1.1 UTC Magnitude: -0.2 ML
Lat: 55.237N Lon: 3.487W Depth: 5.4 km
Grid Ref: 305.47 kmE 594.64 kmN RMS: 0.14 secs
Locality: JOHNSTONEBRIDGE, D & G Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SZ	23	EP	2		09:39	05.66		
BHH	SN	23				09:39	09.03	9	0.17
BHH	SE	23	ES	2		09:39	08.81		
BHH	SE	23				09:39	08.92	9	0.20
BWH	SZ	13	IP	1	C	09:39	03.98		
BWH	SZ	13	ES	2		09:39	05.60		
ESK	SN	20	ES	2		09:39	07.66		
ESK	SN	20				09:39	08.71	2	0.18
ESK	SE	20				09:39	07.77	2	0.15
ESK	SZ	20	EP	2		09:39	05.14		
ECK	SZ	24	EP	2		09:39	05.37		
ECK	SZ	24	ES	2		09:39	08.75		

September 27 1993 Time: 13:54 12.6 UTC Magnitude: 1.6 ML
Lat: 52.313N Lon: 2.730W Depth: 14.2 km
Grid Ref: 350.27 kmE 268.58 kmN RMS: 0.16 secs
Locality: LUDLOW, SHROPSHIRE Quality: B
Comments: 7KM SOUTH OF LUDLOW

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	29	IP		C	13:54	18.15		
SSP	SN	29	ES	2		13:54	22.07		
SSP	SN	29				13:54	22.20	77	0.13
SSP	SE	29				13:54	22.21	34	0.09
MCH	SN	40				13:54	24.87	78	0.09
MCH	SE	40	ES	2		13:54	24.67		
MCH	SE	40				13:54	25.18	66	0.10
MCH	SZ	40	IP	1	C	13:54	19.47		
SBD	SZ	75	IP	1	C	13:54	25.18		
HAE	SZ	33	IP		D	13:54	18.78		
HCG	SZ	63	IP	1	C	13:54	23.37		
HGH	SZ	75	EP	1		13:54	25.38		
HTR	SZ	45	IP	1	C	13:54	20.26		
HLM	SZ	25	IP	1	D	13:54	17.47		
CWF	SZ	108	EP	2		13:54	30.06		
CWF	SN	108	ES	2		13:54	42.38		
CWF	SN	108				13:54	45.48	13	0.07
CWF	SE	108				13:54	43.28	24	0.07

September 28 1993 Time: 00:36 3.0 UTC Magnitude: 0.6 ML
Lat: 53.380N Lon: 4.448W Depth: 14.3 km
Grid Ref: 237.17 kmE 389.82 kmN RMS: 0.07 secs
Locality: ANGLESEY, GWYNEDD Quality: A

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WCB	SN	7				00:36	07.69	62	0.08
WCB	SE	7	ES	2		00:36	07.33		
WCB	SE	7				00:36	07.40	50	0.13
WME	SZ	10	IP		D	00:36	05.82		
WLF	SZ	11	IP		D	00:36	05.90		
YRC	SZ	17	IP		C	00:36	06.59		
YRC	SZ	17	ES	2		00:36	09.11		
WPM	SZ	39	EP	1		00:36	09.81		
YLL	SZ	33	EP	1		00:36	08.89		
YRE	SZ	44	EP	1		00:36	10.57		
YRE	SZ	44	ES	2		00:36	16.18		
YRH	SZ	62	EP	1		00:36	13.12		
WFB	SZ	82	EP	1		00:36	16.47		
WIM	SZ	87	EP	2		00:36	17.19		
WCB	SZ	7	IP		D	00:36	05.64		

September 28 1993 Time: 12:59 36.5 UTC Magnitude: 2.0 ML
Lat: 58.361N Lon: 1.418E Depth: 11.2 km
Grid Ref: 599.96 kmE 946.38 kmN RMS: 0.23 secs
Locality: NORTHERN NORTH SEA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KMY	SZ	241	EP	3		13:00	10.84		
KMY	SN	241	ES	3		13:00	35.86		
YEL	SZ	282	EP	3		13:00	15.28		
YEL	SZ	282	ES	3		13:00	44.72		
LRW	SN	247				13:00	40.25	5	0.18
LRW	SE	247	ES	3		13:00	37.41		
LRW	SE	247				13:00	40.09	7	0.15
LRW	SZ	247	EP	3		13:00	11.42		
SAN	SZ	239	EP	3		13:00	10.54		
SAN	SZ	239	ES	3		13:00	35.81		
WAL	SZ	273	EP	3		13:00	14.05		
WAL	SZ	273	ES	3		13:00	42.82		
MVH	SZ	334	ES	3		13:00	56.24		
MME	SZ	286	EP	3		13:00	16.60		
MME	SZ	286	ES	3		13:00	45.21		
MCD	SN	290	ES	3		13:00	47.01		
MCD	SN	290				13:00	47.53	4	0.07
MCD	SE	290				13:00	47.98	4	0.19
MCD	SZ	290	EP	3		13:00	16.75		

September 30 1993 Time: 06:34 9.4 UTC Magnitude: 0.8 ML
Lat: 56.067N Lon: 4.715W Depth: 4.6 km
Grid Ref: 230.99 kmE 689.35 kmN RMS: 0.09 secs
Locality: GLEN FRUIN, STRATHCLYDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PMS	SZ	25	IP		D	06:34	14.11		
PMS	SZ	25	ES	2		06:34	17.41		
PCO	SZ	40	EP	2	C	06:34	16.67		
PGB	SZ	32	EP	3		06:34	15.50		
PGB	SN	32				06:34	19.93	15	0.31
PGB	SE	32	ES	2		06:34	19.80		
PGB	SE	32				06:34	20.67	12	0.21
PCA	SZ	50	EP	3		06:34	18.28		
PCA	SZ	50	ES	2		06:34	24.66		
EAB	SZ	27	EP	2		06:34	14.57		
EAB	SZ	27	ES	3		06:34	18.05		
EBH	SZ	78	EP	3		06:34	22.19		

September 30 1993 Time: 21:33 7.1 UTC Magnitude: 1.1 ML
Lat: 56.596N Lon: 5.077W Depth: 7.1 km
Grid Ref: 211.10 kmE 749.12 kmN RMS: 0.08 secs
Locality: GLEN ETIVE, HIGHLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PCO	SZ	91	EP	3		21:33	22.09		
KNR	SZ	26	IP	1	D	21:33	12.02		
KNR	SZ	26	ES	3		21:33	15.48		
KAR	SZ	58	EP	3	C	21:33	16.91		
KAR	SZ	58	ES	3		21:33	24.26		
KSB	SZ	72	EP	3		21:33	19.07		
KSB	SZ	72	ES	3		21:33	27.66		
KPL	SZ	90	EP	3		21:33	21.83		

KPL	SN	90			21:33	37.10	4	0.20
KPL	SE	90	ES	3	21:33	32.94		
KPL	SE	90			21:33	37.00	5	0.13
PMS	SZ	86	EP	3	21:33	21.39		
PMS	SZ	86	ES	3	21:33	31.44		
PGB	SE	95			21:33	37.46	4	0.16
PGB	SN	95	ES	3	21:33	34.17		
PGB	SN	95			21:33	39.27	7	0.25
PGB	SZ	95	EP	3	21:33	22.77		
EAB	SZ	64	EP	3	21:33	18.04		
EAB	SZ	64	ES	3	21:33	25.69		
ELO	SZ	85	EP	3	21:33	21.18		
ELO	SZ	85	ES	3	21:33	31.61		

October 1 1993 Time: 07:14 1.3 UTC Magnitude: 0.4 ML
Lat: 52.974N Lon: 4.407W Depth: 20.7 km
Grid Ref: 238.39 kmE 344.65 kmN RMS: 0.10 secs
Locality: LLEYN PENINSULA Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WME	SZ	48	EP	1		07:14	09.64		
WLF	SZ	35	EP	1	D	07:14	07.95		
YRC	SZ	33	IP	1	C	07:14	07.78		
WPM	SZ	46	IP		C	07:14	09.39		
YLL	SZ	24	IP		C	07:14	06.46		
YLL	SZ	24	ES	2		07:14	10.15		
YRE	SZ	1	IP		D	07:14	04.71		
YRE	SZ	1	ES	2		07:14	07.30		
YRH	SZ	22	IP		C	07:14	06.12		
YRH	SZ	22	ES	2		07:14	09.56		
WFB	SZ	41	EP	2		07:14	08.85		
WCB	SZ	46	EP	1		07:14	09.65		
WCB	SN	46				07:14	18.35	3	0.12
WCB	SE	46	ES	3		07:14	15.18		
WCB	SE	46				07:14	16.15	3	0.12

October 2 1993 Time: 23:28 43.8 UTC Magnitude: 0.9 ML
Lat: 54.326N Lon: 3.227W Depth: 13.4 km
Grid Ref: 320.18 kmE 492.98 kmN RMS: 0.07 secs
Locality: DUNNERDALE, CUMBRIA Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BHH	SZ	85	EP	3		23:28	58.36		
BHH	SN	85				23:29	10.62	5	0.18
BHH	SE	85				23:29	10.01	4	0.15
BNA	SZ	76	EP	3		23:28	56.87		
BTA	SZ	74	EP	2	C	23:28	56.34		
BBH	SZ	92	IP	1	C	23:28	59.51		
BDL	SZ	56	EP	2	D	23:28	53.53		
BTA	SN	74	ES	3		23:29	05.20		
BTA	SN	74				23:29	07.01	8	0.11
BTA	SE	74				23:29	07.28	7	0.26
GIM	SZ	81	EP	3		23:28	57.60		
GIM	SN	81				23:29	07.93	5	0.14
GIM	SE	81	ES	3		23:29	07.41		
GIM	SE	81				23:29	08.25	3	0.10
GCD	SZ	76	EP	2		23:28	57.01		
XDE	SZ	26	IP	1	D	23:28	49.04		
BBO	SZ	46	EP	2		23:28	51.87		
BBO	SN	46				23:29	01.31	4	0.14
BBO	SE	46	ES	3		23:28	57.74		
BBO	SE	46				23:28	58.04	4	0.22
CKE	SZ	30	IP		D	23:28	49.38		
CSF	SZ	14	IP		D	23:28	47.21		
CSF	SZ	14	ES	2		23:28	49.50		
CDU	SZ	2	IP		C	23:28	46.25		
LMI	SZ	13	IP		D	23:28	47.08		
LMI	SN	13	ES	2		23:28	49.43		
LMI	SN	13				23:28	49.68	50	0.23
LMI	SE	13				23:28	49.56	46	0.14

October 4 1993 Time: 20:21 48.0 UTC Magnitude: 2.2 ML
Lat: 61.810N Lon: 1.510E Depth: 1.4 km
Grid Ref: 584.88 kmE 1330.39 kmN RMS: 0.26 secs
Locality: NORWEGIAN SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SUE	SN	193	EP	3		20:22	16.86		
SUE	SN	193	ES	3		20:22	38.76		
FOO	SZ	189	EP	3		20:22	17.40		
FOO	SZ	189	ES	3		20:22	37.96		
EGD	SZ	270	EP	3		20:22	26.85		
ASK	SZ	248	EP	3		20:22	24.59		
HYA	SZ	259	EP	3		20:22	25.01		
HYA	SZ	259	ES	3		20:22	53.26		
MOL	SN	326	EP	3		20:22	33.65		
LRW	SN	237				20:23	02.41	8	0.13
LRW	SE	237	ES	3		20:22	48.35		
LRW	SE	237				20:23	01.38	14	0.15
YEL	SZ	198	EP	3		20:22	17.87		
YEL	SZ	198	ES	3		20:22	39.89		

October 5 1993 Time: 02:05 14.8 UTC Magnitude: 2.2 ML
Lat: 52.773N Lon: 2.115W Depth: 8.6 km
Grid Ref: 392.27 kmE 319.57 kmN RMS: 0.09 secs
Locality: STAFFORD, STAFFORDSHIRE Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	78	EP	1	C	02:05	28.19		
SSP	SN	78	ES	2		02:05	37.62		
SSP	SN	78				02:05	38.93	126	0.11
SSP	SE	78				02:05	39.87	49	0.13
KSY	SZ	105	EP	1		02:05	32.33		
KWE	SZ	33	IP		C	02:05	20.57		
KUF	SZ	118	EP	1		02:05	34.15		
KEY	SZ	71	EP	2		02:05	27.05		
CWF	SZ	55	IP		D	02:05	24.16		
CWF	SN	55	ES	2		02:05	30.63		
CWF	SN	55				02:05	30.73	185	0.11
CWF	SE	55				02:05	30.92	122	0.11
SFH	SZ	214	EP	2		02:05	50.47		
SWK	SZ	181	EP	2		02:05	44.66		
SSW	SZ	92	EP	2		02:05	30.95		
SWN	SZ	142	EP	4		02:05	39.05		
SWN	SN	142	ES	4		02:05	56.65		
SWN	SN	142				02:05	58.67	49	0.15
WCB	SN	176				02:06	03.92	13	0.21
WCB	SE	176	ES	2		02:06	02.69		
WCB	SE	176				02:06	04.01	15	0.17
WME	SZ	162	EP	2		02:05	40.17		
WLF	SZ	164	EP	1	C	02:05	40.51		
YRC	SZ	174	EP	2		02:05	41.65		
WPM	SZ	132	EP	1	C	02:05	36.16		
YLL	SZ	144	EP	2		02:05	37.97		
YRE	SZ	157	EP	2		02:05	39.86		
YRH	SZ	170	EP	2		02:05	41.53		
WFB	SZ	130	EP	2		02:05	36.57		
WCB	SZ	176	EP	1		02:05	42.37		
GIM	SZ	230	EP	2		02:05	48.17		
GIM	SN	230	ES	2		02:06	12.70		
GCD	SZ	262	EP	2		02:05	51.91		
XDE	SZ	213	EP	2		02:05	45.89		
CSF	SZ	201	EP	2		02:05	44.88		
CDU	SZ	188	EP	1		02:05	43.14		
LMI	SZ	180	EP	1		02:05	42.00		
LMI	SN	180	ES	2		02:06	02.70		
LMI	SN	180				02:06	05.34	26	0.14
LMI	SE	180				02:06	04.47	24	0.19
MCH	SN	105	ES	2		02:05	44.75		
MCH	SN	105				02:05	46.33	83	0.15
MCH	SE	105				02:05	49.31	61	0.10
MCH	SZ	105	EP	2		02:05	32.25		
SBD	SZ	79	EP	1	D	02:05	28.08		
HAE	SZ	87	EP	1	C	02:05	29.61		
HCG	SZ	116	EP	1	C	02:05	34.20		
HCG	SZ	116	ES	2		02:05	47.63		
HGH	SZ	135	EP	2		02:05	37.33		
HTR	SZ	110	EP	2		02:05	32.94		
HLM	SZ	60	IP	1	C	02:05	25.04		

October 8 1993 Time: 06:46 48.3 UTC Magnitude: 1.3 ML
Lat: 56.279N Lon: 5.196W Depth: 0.6 km
Grid Ref: 202.19 kmE 714.18 kmN RMS: 0.12 secs
Locality: LOCH AWE, STRATHCLYDE Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EBH	SZ	105	EP	3		06:47	06.17		
EBH	SZ	105	ES	3		06:47	19.12		
ELO	SZ	94	EP	3		06:47	04.58		
ELO	SZ	94	ES	3		06:47	16.27		
EDI	SZ	131				06:47	31.04	5	0.47
EDI	SN	131	ES	3		06:47	26.36		
EDI	SN	131				06:47	30.59	4	0.14
EAU	SZ	119	EP	3		06:47	08.42		
EAB	SZ	54	EP	2		06:46	58.20		
EAB	SZ	54	ES	3		06:47	05.45		
PGB	SN	69				06:47	13.01	13	0.22
PGB	SE	69	ES	3		06:47	09.29		
PGB	SE	69				06:47	13.24	10	0.17
PMS	SZ	56	EP	2	D	06:46	58.51		
PMS	SZ	56	ES	3		06:47	06.27		

October 11 1993 Time: 09:43 34.0 UTC Magnitude: 2.3 ML
Lat: 53.141N Lon: 3.726W Depth: 9.3 km
Grid Ref: 284.56 kmE 361.87 kmN RMS: 0.22 secs
Locality: BETWS-Y-COED, GWYNEDD Quality: B
Comments: FELT BETWS-Y-COED... Intensity: 3+

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GIM	SZ	137	EP	3		09:43	55.38		
GIM	SN	137	ES	3		09:44	11.50		
GIM	SE	137	ES			09:44	11.58		
GIM	SE	137				09:44	13.87	56	0.18
GCD	SZ	192	EP	3		09:44	01.77		
CDU	SZ	138	EP	2	D	09:43	55.09		
LMI	SZ	123	EP	3		09:43	53.57		

LMI	SN	123	ES	3		09:44	08.01		
LMI	SE	123	ES	2		09:44	07.99		
LMI	SE	123				09:44	11.27	46	0.36
BHH	SZ	220	EP	3		09:44	05.46		
BBO	SZ	180	EP	2	D	09:44	00.60		
MCH	SN	137	ES	2		09:44	11.73		
MCH	SN	137				09:44	15.23	67	0.18
MCH	SE	137				09:44	13.71	46	0.17
MCH	SZ	137	EP	2		09:43	56.12		
CWF	SN	169	ES	4		09:44	19.11		
KSY	SZ	211	ES	3		09:44	31.47		
XDE	SZ	153	EP	3		09:43	56.74		
CKE	SZ	166	EP	3		09:43	58.72		
CSF	SZ	149	EP	2		09:43	56.46		
WCB	SN	61	ES			09:43	51.17		
WCB	SN	61				09:43	51.63	188	0.17
WCB	SE	61				09:43	51.70	169	0.17
WME	SZ	48	IP	2	D	09:43	42.07		
WME	SZ	48	ES	3		09:43	47.85		
WLF	SZ	48	IP		C	09:43	42.11		
WLF	SZ	48	ES	3		09:43	47.67		
YRC	SZ	58	IP	1	C	09:43	43.67		
YRC	SZ	58	ES	3		09:43	50.56		
WPM	SZ	18	IP		D	09:43	37.63		
WPM	SZ	18	ES	2		09:43	39.97		
YLL	SZ	30	IP		C	09:43	39.53		
YRE	SZ	50	IP		C	09:43	42.81		
YRH	SZ	70	IP	1	C	09:43	45.69		
WFB	SZ	55	EP	2		09:43	43.30		
WFB	SZ	55	ES	3		09:43	49.51		
WIM	SZ	128	EP	1	C	09:43	54.46		
WCB	SZ	61	EP	2	C	09:43	44.10		
SSP	SZ	91	IP		D	09:43	49.23		
SSP	SN	91	ES	3		09:44	00.06		
SSP	SN	91				09:44	00.73	52	0.19
SSP	SE	91	ES	2		09:43	59.37		
SSP	SE	91				09:44	01.09	61	0.15
HAE	SZ	147	IP	2	D	09:43	57.90		
HCG	SZ	91	IP	1	D	09:43	48.99		
HGH	SZ	179	EP	2		09:44	01.99		
HLM	SZ	90	IP	1	D	09:43	48.91		
HTR	SZ	122	EP	2	D	09:43	54.17		
SBD	SZ	41	IP		D	09:43	40.85		
SBD	SZ	41	ES	2		09:43	45.92		

October 11 1993 Time: 22:54 1.2 UTC Magnitude: 1.3 ML
Lat: 56.526N Lon: 5.699W Depth: 2.4 km
Grid Ref: 172.51 kmE 743.19 kmN RMS: 0.17 secs
Locality: LOCHALINE, STRATHCLYDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PMS	SZ	96	EP	2		22:54	17.60		
PMS	SZ	96	ES	2		22:54	28.89		
EAB	SZ	92	EP	3		22:54	16.49		
EAB	SZ	92	ES	3		22:54	27.94		
ELO	SZ	123	EP	3		22:54	21.26		
ELO	SZ	123	ES	3		22:54	36.13		
KPL	SN	91	ES	2		22:54	27.59		
KPL	SN	91				22:54	30.52	5	0.12
KPL	SE	91				22:54	30.83	11	0.13
KNR	SZ	56	EP	3		22:54	11.15		
KSB	SZ	78	EP	3		22:54	14.28		
KAC	SZ	111	EP	3		22:54	19.88		
KPL	SZ	91	EP	2		22:54	16.51		
KAR	SZ	44	EP	2		22:54	08.99		

October 20 1993 Time: 02:33 20.0 UTC Magnitude: 1.5 ML
Lat: 53.443N Lon: 1.230W Depth: 0.2 km
Grid Ref: 451.13 kmE 394.37 kmN RMS: 0.33 secs
Locality: MALTBY, S YORKSHIRE Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KWE	SZ	63	EP	3		02:33	31.14		
KSY	SZ	69	EP	2		02:33	32.20		
HPK	SZ	63	EP	3		02:33	32.01		
HPK	SN	63				02:33	41.50	30	0.28
HPK	SE	63	ES	2		02:33	39.69		
HPK	SE	63				02:33	40.55	27	0.29
LHO	SZ	43	EP	2		02:33	27.88		
LHO	SZ	43	ES	2		02:33	33.79		
SSP	SZ	171	EP	1		02:33	48.33		
SSP	SN	171				02:34	10.33	6	1.07
SSP	SE	171	ES	2		02:34	08.07		
SSP	SE	171				02:34	09.56	8	1.04
HAE	SZ	180	EP	3		02:33	49.53		
HLM	SZ	152	EP	2		02:33	45.55		
SBD	SZ	148	ES	2		02:34	02.97		

October 20 1993 Time: 22:11 23.2 UTC Magnitude: 0.1 ML
Lat: 55.897N Lon: 3.059W Depth: 0.1 km
Grid Ref: 333.80 kmE 667.58 kmN RMS: 0.09 secs
Locality: DALKEITH, LOTHIAN Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EBL	SZ	14	EP	3		22:11	26.47		
ESY	SZ	28	EP	3		22:11	28.87		
EDI	SZ	9	EP	2	D	22:11	25.27		
EDI	SN	9				22:11	27.34	13	0.11
EDI	SE	9	ES	3		22:11	26.79		
EDI	SE	9				22:11	26.96	16	0.16
EAU	SZ	25	EP	3		22:11	28.54		

October 24 1993 Time: 00:31 43.5 UTC Magnitude: -0.1 ML
Lat: 55.869N Lon: 3.093W Depth: 0.1 km
Grid Ref: 331.58 kmE 664.55 kmN RMS: 0.06 secs
Locality: BONNYRIGG, LOTHIAN Quality: C
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SZ	8	EP	2	D	00:31	45.59		
EDI	SN	8				00:31	45.80	12	0.27
EDI	SE	8	ES	3		00:31	47.09		
EDI	SE	8				00:31	48.31	10	0.22
EAU	SZ	22	EP	3		00:31	48.14		
EAU	SZ	22	ES	3		00:31	51.51		
EBL	SZ	11	EP	2		00:31	46.22		
EBL	SZ	11	ES	3		00:31	48.41		

October 24 1993 Time: 05:07 2.2 UTC Magnitude: 1.7 ML
Lat: 50.646N Lon: 4.057W Depth: 8.7 km
Grid Ref: 254.56 kmE 84.99 kmN RMS: 0.25 secs
Locality: OKEHAMPTON, DEVON Quality: C
Comments: SW OF OKEHAMPTON

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	95	EP	2	C	05:07	18.08		
CR2	SN	95	ES	2		05:07	28.90		
CR2	SN	95				05:07	29.82	21	0.09
CR2	SE	95				05:07	31.43	17	0.09
CSA	SZ	68	IP		C	05:07	13.65		
CCO	SZ	99	EP	1	D	05:07	18.70		
CCA	SZ	98	EP		C	05:07	18.48		
CST	SZ	93	EP	3		05:07	17.76		
CBW	SZ	93	EP	1	D	05:07	17.79		
CME	SZ	96	EP		C	05:07	18.20		
CME	SN	96	ES	1		05:07	29.08		
CGW	SZ	103	EP	2		05:07	19.44		
CTR	SZ	95	EP	1	C	05:07	18.00		
CRA	SZ	97	EP	1	C	05:07	18.34		
DYA	SZ	25	IP		D	05:07	06.82		
DYA	SN	25	ES	1		05:07	10.04		
DCO	SZ	39	IP		D	05:07	09.16		
HTL	SE	49	ES	2		05:07	16.27		
HTL	SZ	49	EP	1	D	05:07	10.72		
HEX	SZ	50	EP	2	C	05:07	10.96		

October 24 1993 Time: 22:09 9.3 UTC Magnitude: 1.7 ML
Lat: 52.536N Lon: 3.447W Depth: 20.9 km
Grid Ref: 301.90 kmE 294.17 kmN RMS: 0.06 secs
Locality: NEWTOWN, POWYS Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	26	IP		C	22:09	14.83		
SSP	SN	26	ES	2		22:09	18.77		
WCB	SN	119				22:09	43.96	12	0.09
WCB	SE	119	ES	2		22:09	41.88		
WCB	SE	119				22:09	44.20	12	0.09
WME	SZ	112	EP	2	D	22:09	27.17		
WME	SZ	112	ES	2		22:09	39.83		
WLF	SZ	105	EP	2		22:09	26.21		
WLF	SZ	105	ES	2		22:09	38.08		
YRC	SZ	110	EP	2	D	22:09	26.94		
YRC	SZ	110	ES	3		22:09	39.67		
WPM	SZ	86	IP	1	D	22:09	23.52		
YLL	SZ	83	IP	1	D	22:09	22.86		
YRE	SZ	83	EP	3		22:09	22.94		
YRH	SZ	87	EP	2		22:09	23.70		
WFB	SZ	43	EP	2		22:09	17.26		
WCB	SZ	119	EP	2		22:09	28.27		
MCH	SN	67	ES	2		22:09	28.78		
MCH	SN	67				22:09	29.12	41	0.15
MCH	SE	67				22:09	29.27	33	0.14
MCH	SZ	67	IP		D	22:09	20.55		
SBD	SZ	43	IP	1	D	22:09	17.08		
HAE	SZ	83	EP	1	D	22:09	23.04		
HCG	SZ	28	IP		D	22:09	15.04		
HCG	SZ	28	ES	2		22:09	19.03		
HGH	SZ	109	EP	1	C	22:09	27.33		
HTR	SZ	52	EP	1	D	22:09	18.47		
HLM	SZ	38	EP	1	C	22:09	16.38		

October 28 1993 Time: 17:06 40.3 UTC Magnitude: 1.2 ML
Lat: 52.870N Lon: 2.818W Depth: 1.6 km
Grid Ref: 344.96 kmE 330.61 kmN RMS: 0.05 secs
Locality: WHITCHURCH, STAFFS Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	54	EP	2		17:06	50.13		
SSP	SN	54				17:06	57.97	8	0.15
SSP	SE	54	ES	2		17:06	57.15		
SSP	SE	54				17:06	58.02	14	0.12
HAE	SZ	94	EP	1		17:06	56.25		
HCG	SZ	83	EP	2		17:06	54.55		
HGH	SZ	137	EP	2		17:07	03.28		
HLM	SZ	40	EP	2		17:06	47.60		
HTR	SZ	93	EP	3		17:06	56.51		
SBD	SZ	30	EP	1		17:06	45.99		

October 29 1993 Time: 14:17 49.9 UTC Magnitude: 1.3 ML
Lat: 55.342N Lon: 2.264W Depth: 12.4 km
Grid Ref: 383.28 kmE 605.35 kmN RMS: 0.06 secs
Locality: BYRNESS, NORTHUMBERLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
LMI	SN	142				14:18	31.50	3	0.22
LMI	SE	142				14:18	31.55	6	0.25
BBH	SZ	48	IP	1	C	14:17	58.58		
EDI	SN	87	ES	3		14:18	15.43		
EDI	SN	87				14:18	17.82	13	0.17
EDI	SE	87				14:18	18.00	5	0.14
ESY	SZ	68	EP	2		14:18	01.62		
ESY	SZ	68	ES	3		14:18	09.99		
LMI	SZ	142	EP	4		14:18	13.24		
ESK	SN	60	ES	2		14:18	07.72		
ESK	SN	60				14:18	09.80	6	0.18
ESK	SE	60				14:18	09.58	4	0.10
ESK	SZ	60	EP	2	C	14:18	00.33		
XAL	SZ	54	EP	2		14:17	59.30		
XSO	SZ	17	IP		D	14:17	53.60		
XSO	SZ	17	ES	2		14:17	56.29		
ECK	SZ	58	EP	2	C	14:17	59.89		
BWH	SZ	90	EP	2		14:18	05.14		
EBL	SZ	69	EP	3		14:18	01.88		
EBL	SZ	69	ES	3		14:18	09.99		
BTA	SE	56				14:18	08.77	14	0.17
BBO	SZ	92	EP	3		14:18	05.34		
BBO	SN	92				14:18	19.29	10	0.17
BBO	SE	92	ES	3		14:18	16.57		
BBO	SE	92				14:18	18.25	9	0.25
BTA	SZ	56	EP	2		14:17	59.79		
BTA	SN	56	ES	3		14:18	06.56		
BTA	SN	56				14:18	08.87	11	0.27
BHH	SZ	67	IP		C	14:18	01.39		
BHH	SN	67	ES	3		14:18	09.74		
BHH	SN	67				14:18	12.21	34	0.18
BHH	SE	67				14:18	12.25	24	0.18
BNA	SZ	96	EP	3		14:18	06.07		
BNA	SZ	96	ES	3		14:18	17.52		

November 2 1993 Time: 00:23 36.6 UTC Magnitude: 0.8 ML
Lat: 55.992N Lon: 5.561W Depth: 8.5 km
Grid Ref: 177.92 kmE 683.41 kmN RMS: 0.20 secs
Locality: KNAPDALE, STRATHCLYDE Quality: C
Comments: 10KM SW OF LOCHGILPHEAD
MAGNITUDE FROM VERTICALS

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
GMK	SZ	72	EP	2		00:23	48.64		
GMK	SZ	72	ES	3		00:23	57.18		
EAB	SZ	79	EP	2		00:23	49.26		
EAB	SZ	79	ES	3		00:23	59.36		
EAB	SZ	79				00:24	02.05	3	0.14
EBH	SZ	131	ES	3		00:24	12.96		
ELO	SZ	127	ES	3		00:24	11.95		
PMS	SZ	54	EP	2		00:23	46.05		
PMS	SZ	54	ES	3		00:23	52.36		
PMS	SZ	54				00:23	56.52	4	0.13

November 2 1993 Time: 16:34 2.3 UTC Magnitude: 0.7 ML
Lat: 56.027N Lon: 3.641W Depth: 6.1 km
Grid Ref: 297.72 kmE 682.76 kmN RMS: 0.09 secs
Locality: BO'NESS, CENTRAL Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SN	31	ES	2		16:34	12.17		
EDI	SN	31		2		16:34	12.35	14	0.19
EDI	SE	31				16:34	12.36	14	0.17
EAU	SZ	24	EP	2	D	16:34	06.82		
EBL	SZ	47	EP	3		16:34	10.58		
EAB	SZ	47	EP	2		16:34	10.58		
ELO	SZ	50	EP	2		16:34	10.82		
ELO	SZ	50	ES	3		16:34	17.39		
EDI	SZ	31	EP	3		16:34	08.11		
PCA	SZ	53	EP	3		16:34	11.43		
PCA	SZ	53	ES	3		16:34	18.21		
PMS	SZ	72	EP	3		16:34	14.24		
PCO	SZ	29	IP	2	C	16:34	07.67		
PCO	SZ	29	ES	3		16:34	11.66		
EBH	SZ	26	IP		C	16:34	07.38		
EBH	SZ	26	ES	3		16:34	10.61		

November 3 1993 Time: 21:38 37.0 UTC Magnitude: 0.3 ML
Lat: 57.563N Lon: 5.202W Depth: 6.6 km
Grid Ref: 208.52 kmE 857.09 kmN RMS: 0.01 secs
Locality: GLEN CARRON, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	37	ES	2		21:38	48.43		
KPL	SN	37				21:38	48.71	3	0.17
KPL	SE	37				21:38	48.88	4	0.10
KSB	SZ	42	EP	2		21:38	44.33		
KSB	SZ	42	ES	3		21:38	49.69		
KAC	SZ	9	IP	1	D	21:38	39.18		
KAC	SZ	9	ES	3		21:38	40.79		
KPL	SZ	37	EP	2		21:38	43.60		

November 10 1993 Time: 01:38 40.8 UTC Magnitude: 0.8 ML
Lat: 56.129N Lon: 3.733W Depth: 1.0 km
Grid Ref: 292.32 kmE 694.23 kmN RMS: 0.07 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F - DOUBLE EVENT
SIMILAR 2ND EVENT: +4
SECONDS (ARRIVALS OBSCURED)

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ELO	SZ	38	EP	3		01:38	48.05		
ELO	SZ	38	ES	3		01:38	53.11		
EBH	SZ	19	IP		D	01:38	44.79		
EBH	SZ	19	ES	3		01:38	47.86		
EBL	SZ	58	EP	3		01:38	51.17		
EAU	SZ	36	IP	1	D	01:38	47.66		
EDI	SZ	41	EP	2	D	01:38	48.48		
EDI	SE	41				01:39	01.05	7	0.27
EDI	SN	41				01:39	03.17	20	1.14
EAB	SZ	38	EP	2		01:38	48.07		
PGB	SN	59	ES	3		01:38	59.01		
PGB	SN	59				01:39	06.27	5	0.26
PGB	SE	59				01:39	03.87	3	0.18
PMS	SZ	71	EP	3		01:38	53.14		
PCO	SZ	28	EP	2		01:38	46.29		

November 11 1993 Time: 17:52 46.4 UTC Magnitude: 2.2 ML
Lat: 53.322N Lon: 0.968W Depth: 0.0 km
Grid Ref: 468.71 kmE 381.11 kmN RMS: 0.32 secs
Locality: RANSKILL, NOTTS Quality: C
Comments: C/F,FELT RANSKILL Intensity: 5+

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CKE	SZ	199	ES			17:53	41.06		
LMI	SZ	184	EP	3		17:53	15.97		
LMI	SN	184	ES	2		17:53	36.43		
LMI	SN	184				17:53	38.80	35	0.27
LMI	SE	184				17:53	39.58	29	0.31
SSW	SZ	162	EP	3		17:53	13.21		
HPK	SZ	83	EP	2		17:53	00.60		
HPK	SN	83				17:53	14.31	200	0.22
HPK	SE	83				17:53	13.99	148	0.23
LRN	SZ	133	EP	3		17:53	08.76		
LWH	SZ	114	EP	3		17:53	05.99		
LMK	SZ	45	EP	2		17:52	54.87		
KSY	SZ	47	EP	2		17:52	55.36		
KWE	SZ	68	EP	3		17:52	57.73		
SSP	SZ	176	EP	2		17:53	14.78		
SSP	SN	176	ES	2		17:53	35.31		
SSP	SN	176				17:53	38.09	5	0.24
SSP	SE	176				17:53	40.57	7	0.32
HAE	SZ	178	EP	1	D	17:53	15.58		
HTR	SZ	208	EP	2		17:53	19.09		
HTR	SZ	208	ES	2		17:53	44.63		
SBD	SZ	160	EP	2		17:53	12.44		
SBD	SZ	160	ES	2		17:53	31.03		

November 12 1993 Time: 06:24 19.6 UTC Magnitude: 0.8 ML
Lat: 50.224N Lon: 5.268W Depth: 1.4 km
Grid Ref: 166.95 kmE 41.14 kmN RMS: 0.03 secs
Locality: CAMBORNE, CORNWALL Quality: C
Comments: NR SOUTH CROFTY TIN MINE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CR2	SZ	10	IP		D	06:24	21.29		
CR2	SN	10	ES			06:24	22.61		
CR2	SN	10				06:24	23.10	57	0.06
CR2	SE	10	ES	1		06:24	22.56		
CR2	SE	10				06:24	22.65	78	0.05
CGH	SZ	21	EP	2	D	06:24	23.28		
CCO	SZ	11	IP		D	06:24	21.53		
CCA	SZ	5	IP		D	06:24	20.50		
CCA	SZ	5	ES	1		06:24	21.25		
CST	SZ	8	IP		D	06:24	21.07		
CBW	SZ	14	IP			06:24	22.04		
CBW	SZ	14	ES	1		06:24	23.83		

CME	SZ	8	IP		D	06:24	20.96		
CGW	SZ	14	IP	2		06:24	22.06		
CTR	SZ	10	IP		D	06:24	21.35		
CRA	SZ	9	IP		D	06:24	21.10		
CRQ	SZ					06:24	22.55	34	0.09

November 13 1993 Time: 11:10 38.3 UTC Magnitude: 1.1 ML
Lat: 56.820N Lon: 5.896W Depth: 6.1 km
Grid Ref: 162.29 kmE 776.60 kmN RMS: 0.12 secs
Locality: LOCH MOIDART, HIGHLAND Quality: C
Comments: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EAB	SZ	119	EP	2		11:10	57.91		
EAB	SZ	119	ES	3		11:11	11.67		
EBH	SZ	160	EP	3		11:11	03.98		
EBH	SZ	160	ES	3		11:11	22.19		
ELO	SZ	140	EP	3		11:11	00.92		
ELO	SZ	140	ES	3		11:11	16.83		
PGB	SZ	143	EP	3		11:11	01.31		
PGB	SN	143	ES	3		11:11	17.80		
PGB	SN	143				11:11	20.64	4	0.21
PGB	SE	143				11:11	19.38	7	0.39
PMS	SZ	130	EP	2		11:10	59.04		
PMS	SZ	130	ES	3		11:11	14.73		
PCO	SZ	145	EP	3		11:11	01.55		
KPL	SZ	60	EP	2		11:10	48.40		
KPL	SE	60	ES	3		11:10	56.01		
KPL	SN	60				11:11	00.83	4	0.13
KPL	SE	60				11:11	03.28	5	0.14
KNR	SZ	57	EP	3		11:10	47.98		
KAR	SZ	12	IP	1	D	11:10	40.81		
KSB	SZ	52	EP	2		11:10	47.22		
KAC	SZ	84	EP	2		11:10	52.37		

November 13 1993 Time: 19:54 39.5 UTC Magnitude: 1.0 ML
Lat: 55.326N Lon: 2.300W Depth: 8.6 km
Grid Ref: 380.97 kmE 603.58 kmN RMS: 0.06 secs
Locality: BYRNESS, NORTHUMBERLAND Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CKE	SZ	97	EP	3		19:54	56.08		
ESK	SN	58	ES	3		19:54	56.73		
ESK	SN	58				19:54	56.89	7	0.09
ESK	SE	58				19:54	58.86	4	0.08
ESK	SZ	58	EP	2	C	19:54	49.52		
XAL	SZ	52	EP	2		19:54	48.63		
XSO	SZ	19	IP		D	19:54	43.31		
XSO	SZ	19	ES	2		19:54	46.02		
ECK	SZ	55	IP	1	C	19:54	49.00		
ECK	SZ	55	ES	3		19:54	55.77		
BHH	SZ	64	EP	2		19:54	50.48		
BHH	SN	64				19:55	01.04	5	0.25
BHH	SE	64	ES	3		19:54	58.56		
BHH	SE	64				19:55	01.86	8	0.20
BNA	SZ	94	EP	3		19:54	55.27		
BBO	SZ	89	EP	2		19:54	54.77		
BTA	SZ	53	EP	3		19:54	48.94		
BWH	SZ	88	EP	3		19:54	54.41		
BBH	SZ	46	IP		C	19:54	47.67		
EAU	SZ	93	EP	3		19:54	55.31		
EBL	SZ	69	EP	3		19:54	51.32		
ESY	SZ	69	IP	1	D	19:54	51.37		
ESY	SZ	69	ES	3		19:54	59.83		
EDI	SZ	87	EP	3		19:54	54.48		
EDI	SN	87				19:55	07.65	5	0.16
EDI	SE	87	ES	3		19:55	04.66		
EDI	SE	87				19:55	06.28	3	0.16

November 15 1993 Time: 00:48 55.8 UTC Magnitude: 2.0 ML
Lat: 54.249N Lon: 0.372W Depth: 31.0 km
Grid Ref: 506.06 kmE 484.89 kmN RMS: 0.08 secs
Locality: SCARBOROUGH, N YORKS Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	179	EP	3		00:49	21.39		
CWF	SN	179				00:49	44.42	10	0.08
CWF	SE	179				00:49	41.59	9	0.07
KSY	SZ	144	EP	3		00:49	17.10		
KWE	SZ	168	EP	3		00:49	20.47		
CDU	SZ	184	EP	3		00:49	22.37		
LMI	SN	192	ES	3		00:49	43.32		
LMI	SN	192				00:49	44.22	11	0.34
LMI	SE	192				00:49	43.68	9	0.19
BHH	SZ	206	EP	4		00:49	25.03		
BHH	SN	206	ES	4		00:49	45.86		
BHH	SN	206				00:49	47.71	13	0.17
BHH	SE	206				00:49	48.10	11	0.19
BBO	SN	194	ES	4		00:49	43.36		
BBO	SN	194				00:49	44.08	9	0.14
BBO	SE	194				00:49	44.80	6	0.08
HPK	SZ	88	EP	2		00:49	10.27		
HPK	SN	88				00:49	23.59	76	0.15
HPK	SE	88				00:49	23.16	99	0.19
LHO	SZ	125	EP	3		00:49	14.71		
LWH	SZ	22	IP		C	00:49	01.84		
LWH	SZ	22	ES	3		00:49	06.14		
LMK	SZ	88	EP	3		00:49	10.28		

November 15 1993 Time: 07:33 33.7 UTC Magnitude: 1.1 ML
Lat: 56.547N Lon: 4.308W Depth: 2.5 km
Grid Ref: 258.14 kmE 741.76 kmN RMS: 0.06 secs
Locality: GLEN LYON, TAYSIDE Quality: C
Comments: 6KM S OF INNERWICK

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDU	SZ	80	EP	3		07:33	47.27		
EDU	SZ	80	ES	3		07:33	57.03		
ELO	SZ	38	IP	1	C	07:33	40.51		
ELO	SZ	38	ES	3		07:33	45.63		
EDI	SN	98				07:34	07.51	4	0.24
EDI	SE	98	ES	4		07:34	02.30		
EDI	SE	98				07:34	08.01	6	0.22
EAB	SZ	40	EP	3		07:33	40.98		
EAB	SZ	40	ES	3		07:33	46.18		
EBH	SZ	60	EP	3		07:33	44.19		
EBH	SZ	60	ES	3		07:33	51.82		

November 17 1993 Time: 04:26 0.2 UTC Magnitude: 0.5 ML
Lat: 56.140N Lon: 3.724W Depth: 0.3 km
Grid Ref: 292.85 kmE 695.53 kmN RMS: 0.14 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PCO	SZ	29	EP	2		04:26	05.90		
PCO	SZ	29	ES	3		04:26	10.47		
EDI	SZ	41	EP	3		04:26	08.13		
EDI	SN	41	ES	3		04:26	13.85		
EDI	SN	41				04:26	14.88	4	0.20
EDI	SE	41				04:26	14.48	6	0.48
EAU	SZ	37	EP	3		04:26	07.26		
EAU	SZ	37	ES	3		04:26	12.13		
EAB	SZ	39	EP	3		04:26	07.64		
EAB	SZ	39	ES	3		04:26	12.85		
EBH	SZ	18	EP	3		04:26	04.21		
EBH	SZ	18	ES	3		04:26	07.00		

November 17 1993 Time: 09:49 1.8 UTC Magnitude: 0.8 ML
Lat: 56.129N Lon: 3.727W Depth: 0.6 km
Grid Ref: 292.63 kmE 694.20 kmN RMS: 0.08 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F - DOUBLE EVENT
SIMILAR 2ND EVENT: +14
SECONDS (ARRIVALS OBSCURED)

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ELO	SZ	38	EP	3		09:49	09.00		
ELO	SZ	38	ES	3		09:49	14.43		
EBH	SZ	19	IP	1	D	09:49	05.81		
EBH	SZ	19	ES	3		09:49	08.87		
EAB	SZ	39	EP	2		09:49	09.18		
EAB	SZ	39	ES	3		09:49	14.28		
EAU	SZ	36	EP	2	D	09:49	08.73		
EAU	SZ	36	ES	3		09:49	13.46		
EDI	SE	41	ES	3		09:49	15.14		
EDI	SE	41				09:49	15.72	7	0.30
EDI	SN	41				09:49	15.83	10	0.18
PCO	SZ	28	EP	2	C	09:49	07.37		
PCO	SZ	28	ES	3		09:49	11.54		

November 18 1993 Time: 01:52 4.4 UTC Magnitude: 0.8 ML
Lat: 56.121N Lon: 3.731W Depth: 1.4 km
Grid Ref: 292.38 kmE 693.39 kmN RMS: 0.08 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ELO	SZ	39	EP	3		01:52	11.60		
EBH	SZ	20	EP	2		01:52	08.38		
EBH	SZ	20	ES	3		01:52	11.44		
EAB	SZ	39	EP	2		01:52	11.56		
EAB	SZ	39	ES	3		01:52	16.80		
EAU	SZ	36	EP	3		01:52	11.22		
EAU	SZ	36	ES	3		01:52	15.77		
EDI	SE	41				01:52	17.90	10	0.64
EDI	SN	41	ES	3		01:52	17.43		
EDI	SN	41				01:52	18.20	11	0.44
EDI	SZ	41	EP	3		01:52	11.84		
PCO	SZ	27	EP	3		01:52	09.81		

November 21 1993 Time: 05:54 5.9 UTC Magnitude: 1.1 ML
Lat: 56.339N Lon: 5.176W Depth: 5.9 km
Grid Ref: 203.69 kmE 720.81 kmN RMS: 0.19 secs
Locality: LOCH AWE, STRATHCLYDE Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ELO	SZ	92	EP	3		05:54	21.04		
ELO	SZ	92	ES	3		05:54	32.38		
PGB	SZ	73	EP	2		05:54	18.40		

PGB	SN	73	ES	2		05:54	27.38		
PGB	SN	73				05:54	29.26	6	0.13
PGB	SE	73				05:54	28.28	7	0.27
PMS	SZ	61	EP	2	D	05:54	16.27		
PMS	SZ	61	ES	3		05:54	23.70		
EDI	SN	132				05:54	49.28	2	0.20
EDI	SE	132	ES	3		05:54	43.22		
EDI	SE	132				05:54	46.45	3	0.21
EAB	SZ	54	EP	3		05:54	15.19		
EAB	SZ	54	ES	3		05:54	21.69		
EBH	SZ	104	EP	3		05:54	23.07		
EBH	SZ	104	ES	3		05:54	35.17		

November 23 1993 Time: 21:11 0.9 UTC Magnitude: 0.9 ML
Lat: 56.128N Lon: 3.730W Depth: 1.9 km
Grid Ref: 292.51 kmE 694.18 kmN RMS: 0.13 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ELO	SZ	38	IP	1	D	21:11	08.00		
ELO	SZ	38	ES	3		21:11	13.02		
EAU	SZ	36	IP	1	D	21:11	07.65		
EAU	SZ	36	ES	3		21:11	12.20		
EBL	SZ	58	EP	2	D	21:11	11.19		
EBL	SZ	58	ES	3		21:11	18.84		
ESY	SZ	73	EP	3		21:11	13.48		
EAB	SZ	39	IP	1	D	21:11	08.09		
EAB	SZ	39	ES	3		21:11	12.94		
EBH	SZ	19	IP		D	21:11	04.79		
EBH	SZ	19	ES	3		21:11	07.82		
EDU	SZ	64	EP	3		21:11	12.33		
EDU	SZ	64	ES	3		21:11	20.20		
PMS	SZ	71	EP	3		21:11	13.19		
PMS	SZ	71	ES	3		21:11	22.38		
PCA	SZ	58	EP	3		21:11	10.97		
PCA	SZ	58	ES	3		21:11	18.67		
PGB	SE	59				21:11	21.74	7	0.20
PGB	SN	59	ES	3		21:11	19.11		
PGB	SN	59				21:11	22.02	7	0.24
PCO	SZ	28	IP	1	C	21:11	06.30		
PCO	SZ	28	ES	3		21:11	10.42		
EDI	SZ	41	EP	2	D	21:11	08.51		
EDI	SE	41	ES	3		21:11	14.19		
EDI	SE	41				21:11	15.67	6	0.20
EDI	SN	41				21:11	20.15	11	0.25

November 27 1993 Time: 02:05 46.4 UTC Magnitude: 0.2 ML
Lat: 54.284N Lon: 3.499W Depth: 9.4 km
Grid Ref: 302.43 kmE 488.61 kmN RMS: 0.25 secs
Locality: TARN BAY, CUMBRIA Quality: D
Comments: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
LMI	SZ	14	ES	3		02:05	51.86		
CKE	SZ	42	EP	3		02:05	54.24		
CKE	SZ	42	ES	3		02:05	59.70		
CDU	SZ	21	EP	2	D	02:05	50.13		
CDU	SZ	21	ES	3		02:05	53.15		
CDU	SZ	21				02:05	53.24	11	0.22

November 27 1993 Time: 19:56 6.5 UTC Magnitude: 0.2 ML
Lat: 53.132N Lon: 4.394W Depth: 10.3 km
Grid Ref: 239.87 kmE 362.10 kmN RMS: 0.06 secs
Locality: CAERNARVON BAY, GWYNEDD Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WCB	SN	29				19:56	15.46	4	0.07
WCB	SE	29	ES	2		19:56	15.18		
WCB	SE	29				19:56	15.26	6	0.15
WME	SZ	30	EP	2	C	19:56	11.75		
WLF	SZ	18	EP	1	C	19:56	09.87		
YRC	SZ	18	IP		D	19:56	10.01		
WPM	SZ	36	IP	1	C	19:56	12.82		
YLL	SZ	15	IP		C	19:56	09.54		
YRE	SZ	17	IP	1	D	19:56	09.87		
YRH	SZ	37	IP	1	C	19:56	12.91		
WFB	SZ	55	EP	2		19:56	15.82		
WCB	SZ	29	EP	2		19:56	11.82		

December 5 1993 Time: 16:40 55.3 UTC Magnitude: 0.8 ML
Lat: 56.105N Lon: 4.717W Depth: 6.9 km
Grid Ref: 231.05 kmE 693.59 kmN RMS: 0.03 secs
Locality: GLEN LUSS, STRATHCLYDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ELO	SZ	74	ES	3		16:41	16.77		
PGB	SZ	36	IP	1	C	16:41	01.77		
PGB	SN	36				16:41	06.87	13	0.22
PGB	SE	36	ES	2		16:41	06.54		
PGB	SE	36				16:41	06.73	8	0.18
PCO	SZ	41	IP	1	C	16:41	02.55		
PCO	SZ	41	ES	3		16:41	07.71		
EAB	SZ	25	IP		C	16:41	00.08		
EAB	SZ	25	ES	2		16:41	03.61		
EBH	SZ	77	ES	3		16:41	17.45		

December 11 1993 Time: 22:41 39.8 UTC Magnitude: 1.3 ML
Lat: 56.311N Lon: 5.971W Depth: 6.8 km
Grid Ref: 154.45 kmE 720.25 kmN RMS: 0.09 secs
Locality: MULL, STRATHCLYDE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PGB	SZ	108	EP	2		22:41	57.55		
PGB	SN	108	ES	3		22:42	10.31		
PGB	SN	108				22:42	11.22	12	0.28
PGB	SE	108				22:42	11.80	8	0.16
PCO	SZ	122	EP	1	C	22:41	59.63		
PCO	SZ	122	ES	3		22:42	14.31		
EAB	SZ	102	EP	2		22:41	56.52		
ELO	SZ	141	EP	3		22:42	02.35		
KPL	SN	116				22:42	15.52	3	0.16
KPL	SE	116	ES	3		22:42	12.46		
KPL	SE	116				22:42	15.05	6	0.11
KAR	SZ	68	EP	3		22:41	51.20		
KAR	SZ	68	ES	3		22:41	59.59		
KSB	SZ	106	EP	3		22:41	57.13		
KAC	SZ	139	EP	3		22:42	02.28		
KPL	SZ	116	EP	3		22:41	58.82		
PCA	SZ	127	EP	2		22:42	00.35		

December 13 1993 Time: 04:05 13.1 UTC Magnitude: 0.6 ML
Lat: 57.623N Lon: 5.126W Depth: 5.8 km
Grid Ref: 213.34 kmE 863.52 kmN RMS: 0.05 secs
Locality: KINLOCHEWE, HIGHLAND Quality: C
Comments: 8KM EAST OF KINLOCHEWE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MDO	SZ	50	EP	2	C	04:05	21.80		
MDO	SZ	50	ES	3		04:05	28.12		
KPL	SZ	45	EP	2		04:05	20.89		
KPL	SE	45	ES	3		04:05	26.70		
KPL	SN	45				04:05	26.90	5	0.18
KPL	SE	45				04:05	26.90	4	0.13
KAC	SZ	17	IP	1	D	04:05	16.59		
KAC	SZ	17	ES	3		04:05	18.95		
KSB	SZ	49	EP	2		04:05	21.68		

December 13 1993 Time: 08:59 53.9 UTC Magnitude: 3.4 ML
Lat: 55.160N Lon: 4.545E Depth: 20.4 km
Grid Ref: 816.67 kmE 604.71 kmN RMS: 0.27 secs
Locality: CENTRAL NORTH SEA Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
WCB	SZ	624	EP	3		09:01	14.58		
WCB	SN	624				09:02	17.21	8	0.15
WCB	SE	624				09:02	16.01	8	0.17
WPM	SZ	591	EP	3		09:01	10.44		
SSP	SZ	590	EP	2		09:01	10.52		
SSP	SN	590				09:02	11.24	11	0.13
SSP	SE	590				09:02	10.50	11	0.18
HAE	SZ	584	EP	2		09:01	09.82		
HLM	SZ	571	EP	2		09:01	08.03		
SBD	SZ	570	EP	2		09:01	07.91		
KMY	SZ	453	EP	3		09:00	53.50		
KMY	SZ	453	ES	3		09:01	37.19		
ODD1	SZ	544	EP	3		09:01	05.08		
ODD1	SZ	544	ES	3		09:01	57.54		
CWF	SZ	470	EP	2		09:00	55.51		
CWF	SN	470	ES	3		09:01	40.07		
CWF	SN	470				09:01	42.61	15	0.12
CWF	SE	470				09:01	43.18	19	0.14
KSY	SZ	415	EP	3		09:00	48.97		
KWE	SZ	481	EP	3		09:00	57.05		
KUF	SZ	431	EP	3		09:00	51.02		
EDI	SZ	496	EP	3		09:00	59.32		
EDI	SN	496				09:01	47.44	26	0.16
EDI	SE	496				09:01	49.61	19	0.24
EAU	SZ	511	EP	3		09:01	01.02		
EBL	SZ	484	EP	3		09:00	57.73		
ESY	SZ	460	EP	3		09:00	54.77		
EAB	SZ	570	EP	3		09:01	08.63		
EBH	SZ	521	EP	2		09:01	02.32		
EDU	SZ	498	EP	3		09:00	59.41		
ELO	SZ	538	EP	3		09:01	04.71		
EDR	SZ	484	EP	3		09:00	57.88		
EDR	SZ	484	ES	3		09:01	43.84		

December 14 1993 Time: 02:17 24.0 UTC Magnitude: 1.5 ML
Lat: 55.369N Lon: 1.338W Depth: 0.7 km
Grid Ref: 441.96 kmE 608.59 kmN RMS: 0.08 secs
Locality: AMBLE, NORTHUMBERLAND Quality: C
Comments: C/F - OFFSHORE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
BNA	SZ	152	EP	2		02:17	49.02		
BNA	SZ	152	ES	3		02:18	07.09		
BNA	SZ	152				02:18	08.05	3	0.30
BBO	SZ	141	EP	3		02:17	47.30		
BBO	SZ	141	ES	3		02:18	04.37		

BBO	SZ	141				02:18	05.84	8	0.54
BTA	SZ	100	EP	3		02:17	41.04		
BTA	SZ	100	ES	3		02:17	53.56		
BHH	SZ	124	EP	3		02:17	44.73		
BHH	SN	124	ES	2		02:18	00.00		
BHH	SN	124				02:18	00.79	20	0.35
BHH	SE	124				02:18	01.20	17	0.31
ECK	SZ	116	EP	3		02:17	43.56		
ECK	SZ	116	ES	3		02:17	57.66		
BBH	SZ	105	ES	3		02:17	54.57		
BBH	SZ	105				02:17	57.32	12	0.41
ESK	SZ	119	EP	3		02:17	43.94		
ESK	SN	119	ES	3		02:17	58.52		
ESK	SN	119				02:17	59.76	9	0.37
ESK	SE	119				02:17	59.12	7	0.69

December 15 1993 Time: 15:30 43.0 UTC Magnitude: 1.3 ML
Lat: 51.668N Lon: 3.262W Depth: 5.0 km
Grid Ref: 312.76 kmE 197.37 kmN RMS: 0.08 secs
Locality: BARGOED, MID GLAMORGAN Quality: D
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	41				15:30	55.42	26	0.26
MCH	SE	41	ES	2		15:30	55.19		
MCH	SE	41				15:30	55.46	29	0.24
MCH	SZ	41	EP	2		15:30	50.06		
HAE	SZ	64	EP	2		15:30	54.10		
HCG	SZ	78	EP	2		15:30	56.14		
HGH	SZ	32	IP	1	C	15:30	48.59		
HTR	SZ	46	IP	1	D	15:30	50.82		
HTR	SZ	46	ES	2		15:30	56.72		
HSA	SZ	62	EP	2		15:30	53.72		

December 16 1993 Time: 11:05 20.5 UTC Magnitude: 1.9 ML
Lat: 56.963N Lon: 4.496W Depth: 2.6 km
Grid Ref: 248.24 kmE 788.47 kmN RMS: 0.17 secs
Locality: LOCH LAGGAN, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SZ	82	IP	1	C	11:05	34.55		
KPL	SE	82	ES	3		11:05	44.23		
KPL	SN	82				11:05	47.85	34	0.12
KPL	SE	82				11:05	47.43	39	0.18
KNR	SZ	33	IP	1	D	11:05	26.40		
KSB	SZ	63	EP	2		11:05	31.31		
KAR	SZ	81	EP	3		11:05	34.37		
KAC	SZ	77	EP	2		11:05	33.64		
EAU	SZ	140	EP	3		11:05	43.64		
EAB	SZ	87	EP	2		11:05	35.08		
EBH	SZ	100	EP	3		11:05	37.41		
EDU	SZ	102	EP	3		11:05	37.65		
ELO	SZ	73	EP	2		11:05	32.73		
EDR	SZ	119	EP	3		11:05	40.23		
EDI	SZ	141	EP	4		11:05	43.69		
EDI	SE	141	ES	3		11:05	59.84		
EDI	SN	141				11:06	01.43	15	0.19
EDI	SE	141				11:06	02.37	18	0.26
MCD	SZ	102	EP	2		11:05	37.57		
MCD	SE	102	ES	2		11:05	49.67		
MCD	SN	102				11:05	52.88	40	0.11
MCD	SE	102				11:05	52.23	41	0.12
MME	SZ	101	EP	2		11:05	37.51		
MVH	SZ	109	EP	3		11:05	38.52		
MDO	SZ	54	IP	1	D	11:05	29.70		

December 19 1993 Time: 10:02 46.9 UTC Magnitude: 0.4 ML
Lat: 55.854N Lon: 3.113W Depth: 0.5 km
Grid Ref: 330.32 kmE 662.83 kmN RMS: 0.03 secs
Locality: ROSEWELL, LOTHIAN Quality: D
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EBL	SZ	10	EP	2		10:02	49.35		
EBL	SZ	10	ES	3		10:02	51.24		
EDI	SZ	9	IP	1	C	10:02	49.16		
EDI	SN	9				10:02	51.83	34	0.21
EDI	SE	9	ES	3		10:02	50.78		
EDI	SE	9				10:02	51.06	26	0.23
EAU	SZ	21	EP	3		10:02	51.29		

December 23 1993 Time: 05:28 16.4 UTC Magnitude: 0.5 ML
Lat: 56.130N Lon: 3.736W Depth: 1.8 km
Grid Ref: 292.12 kmE 694.38 kmN RMS: 0.09 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F - DOUBLE EVENT

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PCO	SZ	28	IP	1	C	05:28	21.76		
PCO	SZ	28	ES	3		05:28	25.30		
EDI	SZ	41	EP	2		05:28	23.86		
EDI	SN	41	ES	3		05:28	29.65		
EDI	SN	41				05:28	31.10	5	0.20
EDI	SE	41				05:28	30.36	4	0.23
EAU	SZ	37	EP	3		05:28	23.14		
EBL	SZ	59	EP	3		05:28	26.63		
EAB	SZ	38	EP	3		05:28	23.50		
EBH	SZ	19	IP		D	05:28	20.27		
EBH	SZ	19	ES	3		05:28	23.17		
ELO	SZ	38	EP	3		05:28	23.38		
ELO	SZ	38	ES	3		05:28	28.51		

December 23 1993 Time: 07:49 28.7 UTC Magnitude: 0.7 ML
Lat: 56.132N Lon: 3.734W Depth: 0.9 km
Grid Ref: 292.23 kmE 694.56 kmN RMS: 0.11 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
PCO	SZ	28	EP	2		07:49	34.24		
PCO	SZ	28	ES	3		07:49	38.29		
EDI	SZ	41	EP	3		07:49	36.45		
EDI	SN	41				07:49	42.77	7	0.22
ELO	SZ	38	EP	3		07:49	35.77		
ELO	SZ	38	ES	3		07:49	40.98		
EBH	SZ	19	EP	2		07:49	32.75		
EBH	SZ	19	ES	3		07:49	35.81		
EAB	SZ	38	EP	3		07:49	35.91		
EAB	SZ	38	ES	3		07:49	41.09		
EAU	SZ	37	EP	2	D	07:49	35.62		
EAU	SZ	37	ES	3		07:49	40.36		
EDI	SE	41	ES	3		07:49	42.03		
EDI	SE	41				07:49	44.30	7	0.27

December 24 1993 Time: 01:44 46.8 UTC Magnitude: 1.1 ML
Lat: 56.124N Lon: 3.731W Depth: 1.5 km
Grid Ref: 292.39 kmE 693.65 kmN RMS: 0.09 secs
Locality: CLACKMANNAN, CENTRAL Quality: B
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
ELO	SZ	39	EP	3		01:44	54.15		
ELO	SZ	39	ES	3		01:44	59.22		
EBH	SZ	20	IP	1	D	01:44	50.68		
EBH	SZ	20	ES	3		01:44	53.78		
EAB	SZ	39	EP	3		01:44	53.82		
EAB	SZ	39	ES	3		01:44	59.11		
EBL	SZ	58	EP	3		01:44	57.03		
PGB	SZ	58	EP	3		01:44	57.18		
PGB	SE	58	ES	2		01:45	04.88		
PGB	SN	58				01:45	05.26	11	0.18
PGB	SE	58				01:45	07.76	8	0.22
PCA	SZ	57	EP	3		01:44	56.93		
PCO	SZ	27	IP	1	C	01:44	52.16		
PCO	SZ	27	ES	3		01:44	55.92		
EDI	SZ	41	IP	1	D	01:44	54.37		
EDI	SE	41	ES	3		01:44	59.70		
EDI	SN	41				01:45	03.89	11	0.22
EDI	SE	41				01:45	02.68	17	0.31
EAU	SZ	36	IP	1	D	01:44	53.53		
EAU	SZ	36	ES	3		01:44	58.36		

December 24 1993 Time: 19:45 45.8 UTC Magnitude: 1.3 ML
Lat: 51.793N Lon: 3.000W Depth: 14.6 km
Grid Ref: 331.08 kmE 211.06 kmN RMS: 0.18 secs
Locality: ABERGAVENNY, GWENT Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	70	IP	1	D	19:45	57.56		
SSP	SN	70				19:46	06.63	17	0.10
SSP	SE	70	ES	2		19:46	06.06		
SSP	SE	70				19:46	07.04	17	0.17
SSW	SZ	82	EP	1	C	19:45	59.57		
SMD	SZ	57	EP	2		19:45	55.36		
MCH	SN	23	ES	2		19:45	53.97		
MCH	SN	23				19:45	54.23	100	0.10
MCH	SE	23				19:45	54.26	79	0.20
MCH	SZ	23	IP		C	19:45	50.55		
HAE	SZ	41	IP		C	19:45	53.05		
HCG	SZ	74	EP	2		19:45	58.42		
HGH	SZ	22	IP		D	19:45	50.36		
HTR	SZ	37	IP	1	D	19:45	52.55		
HLM	SZ	81	EP	2		19:45	59.16		
HTL	SZ	136	EP	2		19:46	07.88		
HSA	SZ	80	EP	2		19:45	58.94		
HEX	SZ	98	IP	1	C	19:46	01.92		
HBL2	SZ	29	EP	2		19:45	51.36		

December 25 1993 Time: 02:20 55.5 UTC Magnitude: 1.2 ML
Lat: 52.882N Lon: 3.518W Depth: 10.8 km
Grid Ref: 297.86 kmE 332.79 kmN RMS: 0.09 secs
Locality: BALA, GWYNEDD Quality: B
Comments: 6KM SE OF BALA

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	59	IP		D	02:21	05.37		
SSP	SN	59				02:21	12.68	9	0.13
SSP	SE	59	ES	2		02:21	12.58		
SSP	SE	59				02:21	18.47	11	0.17
HAE	SZ	115	EP	2		02:21	14.19		

HCG	SZ	63	IP		D	02:21	05.74		
HGH	SZ	147	EP	2		02:21	19.28		
HLM	SZ	59	EP	1		02:21	05.36		
HTR	SZ	91	EP	2		02:21	10.46		
SBD	SZ	18	IP		C	02:20	58.96		
WCB	SN	88				02:21	22.09	5	0.19
WCB	SE	88	ES	2		02:21	20.07		
WCB	SE	88				02:21	20.40	7	0.21
WME	SZ	78	EP	2		02:21	08.31		
WLF	SZ	74	EP	2		02:21	07.67		
YRC	SZ	82	EP	2		02:21	09.05		
WPM	SZ	49	IP	1	D	02:21	03.90		
YLL	SZ	52	IP	1	D	02:21	04.33		
YRE	SZ	62	IP	1	C	02:21	06.02		
YRH	SZ	75	EP	1	C	02:21	08.03		
WFB	SZ	42	IP	1	C	02:21	02.70		
WCB	SZ	88	EP	3		02:21	09.84		

December 26 1993 Time: 19:27 1.3 UTC Magnitude: 1.2 ML
Lat: 50.933N Lon: 1.333W Depth: 7.0 km
Grid Ref: 446.89 kmE 115.17 kmN RMS: 0.19 secs
Locality: SOUTHAMPTON, HAMPSHIRE Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SWN	SZ	72	EP	2		19:27	13.05		
SFH	SZ	47	IP	1	C	19:27	09.76		
SFH	SZ	47	ES	2		19:27	15.29		
SWK	SZ	69	EP	1	D	19:27	12.91		
SWK	SZ	69				19:27	22.91	11	0.19
SSW	SZ	120	EP	3		19:27	21.07		
SMD	SZ	106	EP	2		19:27	18.33		
SMD	SZ	106	ES	2		19:27	31.31		
SMD	SZ	106				19:27	32.92	9	0.15
SIW	SZ	30	IP		D	19:27	06.77		
SIW	SZ	30	ES	2		19:27	10.67		
SIW	SZ	30				19:27	11.16	30	0.25
SKP	SZ	95	EP	3		19:27	16.46		
SWN	SN	72	ES	3		19:27	22.53		
SWN	SE	72				19:27	23.76	10	0.25

December 27 1993 Time: 05:20 45.9 UTC Magnitude: 4.3 ML
Lat: 61.254N Lon: 2.849E Depth: 17.9 km
Grid Ref: 660.00 kmE 1273.12 kmN RMS: 0.38 secs
Locality: NORTHERN NORTH SEA Quality: D

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
EDI	SZ	690	EP	2		05:22	14.71		
EDI	SE	690	ES	3		05:23	19.56		
EDI	SN	690				05:23	24.66	62	0.16
EDI	SE	690				05:23	24.59	53	0.19
EAU	SZ	706	EP	2		05:22	16.33		
EBL	SZ	701	EP	3		05:22	16.08		
ESY	SZ	674	EP	3		05:22	12.68		
EAB	SZ	702	EP	2		05:22	16.04		
EBH	SZ	668	EP	2	D	05:22	11.97		
EDU	SZ	624	EP	2	D	05:22	06.58		
EDU	SZ	624	ES	3		05:23	05.71		
EDR	SZ	573	EP	3		05:22	00.30		
EDR	SZ	573	ES	3		05:22	54.57		
ELO	SZ	653	EP	3		05:22	10.17		
GIM	SZ	889	EP	4		05:22	39.06		
GIM	SN	889				05:24	05.74	37	0.24
GIM	SE	889				05:24	04.11	23	0.39
LMI	SZ	865	EP	4		05:22	35.89		
LMI	SN	865				05:24	01.58	59	0.26
LMI	SE	865				05:24	01.69	35	0.32
CWF	SZ	981	EP	4		05:22	50.30		
CWF	SN	981				05:24	25.98	5	0.11
CWF	SE	981				05:24	25.34	12	0.25
BHH	SZ	773	EP	3		05:22	25.40		
BHH	SE	773	ES			05:23	38.16		
BHH	SN	773				05:23	43.90	77	0.26
BHH	SE	773				05:23	42.20	113	0.38
BNA	SZ	798	EP	3		05:22	28.07		
BBO	SZ	811	EP	4		05:22	29.36		
BBO	SN	811		3		05:23	49.76	37	0.29
BBO	SE	811				05:23	51.50	48	0.24
BBH	SZ	762	EP	3		05:22	23.69		
BDL	SZ	796	EP	3		05:22	27.53		
BTA	SZ	779	EP	3		05:22	25.77		
BTA	SE	779	ES	3		05:23	39.16		
BTA	SN	779				05:23	42.74	54	0.29
BTA	SE	779				05:23	41.74	48	0.32
KAR	SZ	693	EP	3		05:22	15.06		
KSB	SZ	653	EP	2		05:22	09.29		
KAC	SZ	624	EP	3		05:22	05.85		
MCD	SZ	536	EP	2		05:21	55.63		
MCD	SN	536	ES	3		05:22	46.39		
MCD	SN	536				05:22	49.12	239	0.28
MCD	SE	536				05:22	48.00	252	0.24
MDO	SZ	591	EP	3		05:22	02.74		
MDO	SZ	591	ES	3		05:22	58.17		
MME	SZ	550	EP	2	C	05:21	57.38		
MME	SZ	550	ES	3		05:22	48.97		
MFI	SZ	500	EP	3		05:21	51.49		
MFI	SZ	500	ES	3		05:22	39.18		
LRW	SN	253				05:21	48.26	210	0.17
LRW	SE	253	ES	3		05:21	46.87		
LRW	SE	253				05:21	49.29	225	0.21
LRW	SZ	253	EP	2	C	05:21	21.02		
WAL	SZ	267	EP	2	C	05:21	22.92		
WAL	SZ	267	ES	3		05:21	50.35		
YEL	SZ	227	EP	2	D	05:21	17.94		
YEL	SZ	227	ES	3		05:21	40.92		
MVH	SZ	544	EP	3		05:21	56.38		
MVH	SZ	544	ES	3		05:22	48.42		
MLA	SZ	479	EP	3		05:21	48.35		
MLA	SZ	479	ES	3		05:22	34.84		
KPL	SZ	652	EP	2		05:22	09.33		
KPL	SN	652	ES	3		05:23	11.50		
KPL	SN	652				05:23	12.49	47	0.24
KPL	SE	652				05:23	14.33	44	0.23
ASK	SZ	154	EP	3		05:21	08.18		
ASK	SZ	154	ES	3		05:21	25.27		
FOO	SZ	123	IP	1	D	05:21	04.47		
MOL	SZ	287	EP	2		05:21	25.51		
MOL	SZ	287	ES	3		05:21	53.95		
KMY	SZ	264	EP	3		05:21	22.85		
KMY	SZ	264	ES	3		05:21	49.62		
HYA	SZ	180	EP	2		05:21	12.35		

December 27 1993 Time: 19:44 30.8 UTC Magnitude: 0.7 ML
Lat: 56.803N Lon: 5.444W Depth: 2.8 km
Grid Ref: 189.73 kmE 773.18 kmN RMS: 0.09 secs
Locality: LOCH SHIEL, HIGHLAND Quality: C

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
KPL	SN	61				19:44	52.33	3	0.29
KPL	SE	61	ES	3		19:44	49.25		
KPL	SE	61				19:44	52.59	3	0.18
KPL	SZ	61	EP	3		19:44	41.42		
KNR	SZ	29	EP	2		19:44	36.20		
KNR	SZ	29	ES	3		19:44	40.02		
KAR	SZ	27	EP	3		19:44	35.85		
KAR	SZ	27	ES	2		19:44	39.30		
KSB	SZ	45	EP	3		19:44	38.74		
KSB	SZ	45	ES	3		19:44	45.00		
KAC	SZ	78	EP	3		19:44	44.22		

December 30 1993 Time: 18:48 43.3 UTC Magnitude: 0.5 ML
Lat: 52.123N Lon: 2.572W Depth: 15.5 km
Grid Ref: 360.84 kmE 247.35 kmN RMS: 0.02 secs
Locality: HEREFORD, HER & WOR Quality: C
Comments: 13KM NE OF HEREFORD

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
MCH	SN	32	ES	2		18:48	53.78		
MCH	SN	32				18:48	53.97	10	0.10
MCH	SE	32				18:48	53.94	6	0.09
MCH	SZ	32	IP		C	18:48	49.36		
HAE	SZ	10	IP		D	18:48	46.39		
HTR	SZ	48	EP	1		18:48	51.71		
HLM	SZ	49	IP	1	C	18:48	51.89		
HLM	SZ	49	ES	2		18:48	58.00		

December 31 1993 Time: 01:45 31.7 UTC Magnitude: 0.6 ML
Lat: 53.069N Lon: 1.413W Depth: 0.1 km
Grid Ref: 439.34 kmE 352.67 kmN RMS: 0.54 secs
Locality: MATLOCK, DERBYSHIRE Quality: D
Comments: C/F

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
CWF	SZ	38	EP	1		01:45	38.06		
CWF	SN	38	ES	3		01:45	44.86		
CWF	SN	38				01:45	45.04	7	0.11
CWF	SE	38				01:45	45.07	7	0.15
KWE	SZ	30	EP	1		01:45	37.96		
KBI	SZ	22	EP	2		01:45	35.82		
KSY	SZ	57	EP	2		01:45	42.58		

December 31 1993 Time: 21:20 58.7 UTC Magnitude: 1.9 ML
Lat: 51.604N Lon: 3.596W Depth: 7.7 km
Grid Ref: 289.45 kmE 190.70 kmN RMS: 0.12 secs
Locality: PONTYCYMER, W GLAMORGAN Quality: B

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI
SSP	SZ	97	EP	2		21:21	14.73		
SSP	SN	97				21:21	31.24	42	0.28
SSP	SE	97	ES	2		21:21	26.55		
SSP	SE	97				21:21	30.81	38	0.12
HTL	SN	92	ES	2		21:21	24.86		
HTL	SN	92				21:21	25.18	26	0.30
HTL	SE	92				21:21	25.03	22	0.15
HTL	SZ	92	IP	1	C	21:21	14.41		
HSA	SZ	42	IP		D	21:21	05.97		
HEX	SZ	61	IP	1	C	21:21	09.15		
HEX	SZ	61	ES	2		21:21	16.49		
MCH	SN	60				21:21	16.49	54	0.16

MCH	SE	60	ES	2		21:21	16.22		
MCH	SE	60				21:21	19.17	54	0.10
MCH	SZ	60	IP	1	C	21:21	08.82		
SBD	SZ	147	EP	2		21:21	22.77		
HAE	SZ	87	EP	1		21:21	13.25		
HCG	SZ	80	EP	2		21:21	12.25		
HGH	SZ	55	IP	1	D	21:21	08.25		
HTR	SZ	58	IP		C	21:21	08.54		
HLM	SZ	113	EP	3		21:21	17.45		
SMD	SZ	69	EP	2		21:21	10.36		
SWK	SZ	107	EP	2		21:21	16.80		
SSW	SZ	127	EP	2		21:21	20.20		

TABLE 6

DEPTH/CRUSTAL VELOCITY MODELS

TABLE 6

Depth / crustal velocity models used in earthquake locations

Structural area	Depth to top of layer (km)	P-wave velocity (km/sec)	Vp/Vs
North Sea	0.00	6.20	1.73
	12.00	6.50	
	23.00	7.10	
	31.00	8.05	
Lownet and general UK	0.00	4.00	1.73
	2.52	5.90	
	7.55	6.45	
	18.87	7.00	
	34.15	8.00	
Borders	0.00	4.10	1.71
	3.00	5.60	
	4.10	6.15	
	17.00	6.60	
	30.00	8.00	
North Wales (Lleyn)	0.00	5.40	1.68
	2.00	6.05	
	3.00	6.50	
	25.00	6.80	
	34.00	8.00	
Mid Wales	0.00	5.40	1.72
	3.80	6.05	
	15.50	6.65	
	34.30	8.00	
Cornwall	0.00	5.50	1.77
	0.30	5.76	
	15.00	6.90	
	30.00	8.00	

FIGURES 1 TO 5

KEY TO EPICENTRE MAPS, FIGURES 3 TO 5

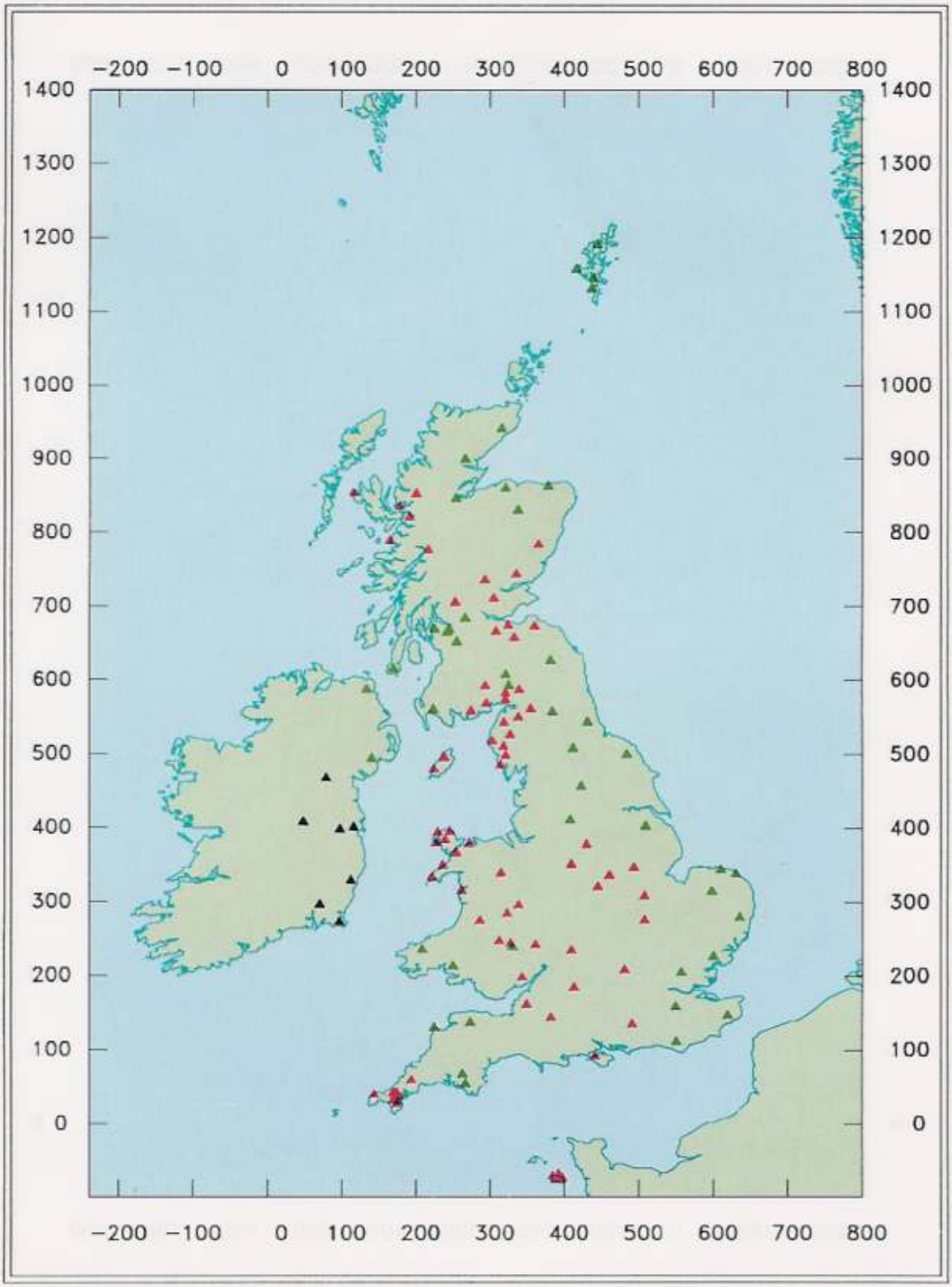


Figure 1. Seismograph network operational in December 1993. Colour coding shows the standard stations (green), rapid access stations (red) and DIAS stations (black).

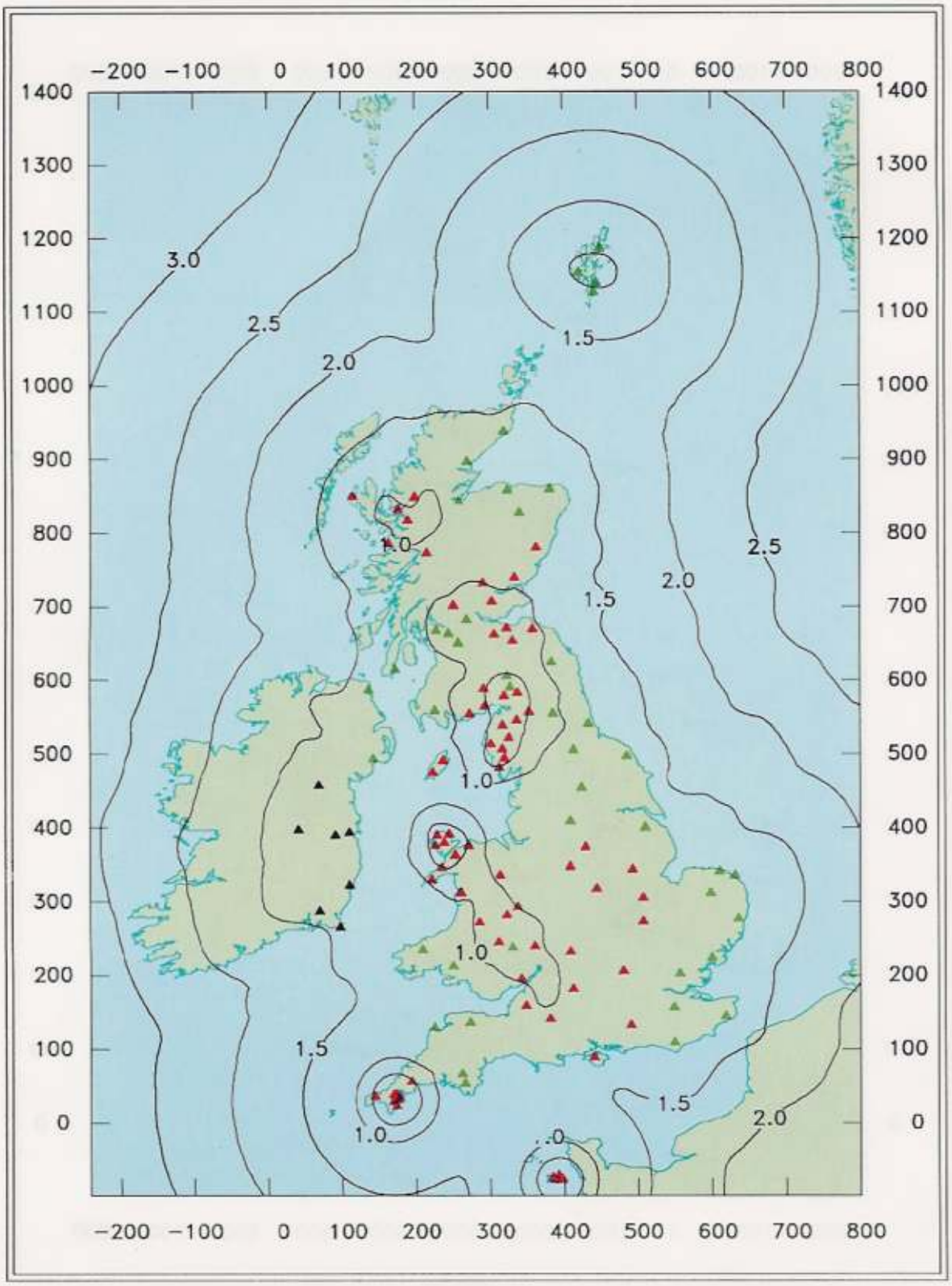


Figure 2. Earthquake detection capability in December 1993. Contour values are Richter local magnitude (ML) for 4 nanometres of noise (average) and S−wave amplitudes twice that at the fourth nearest station.

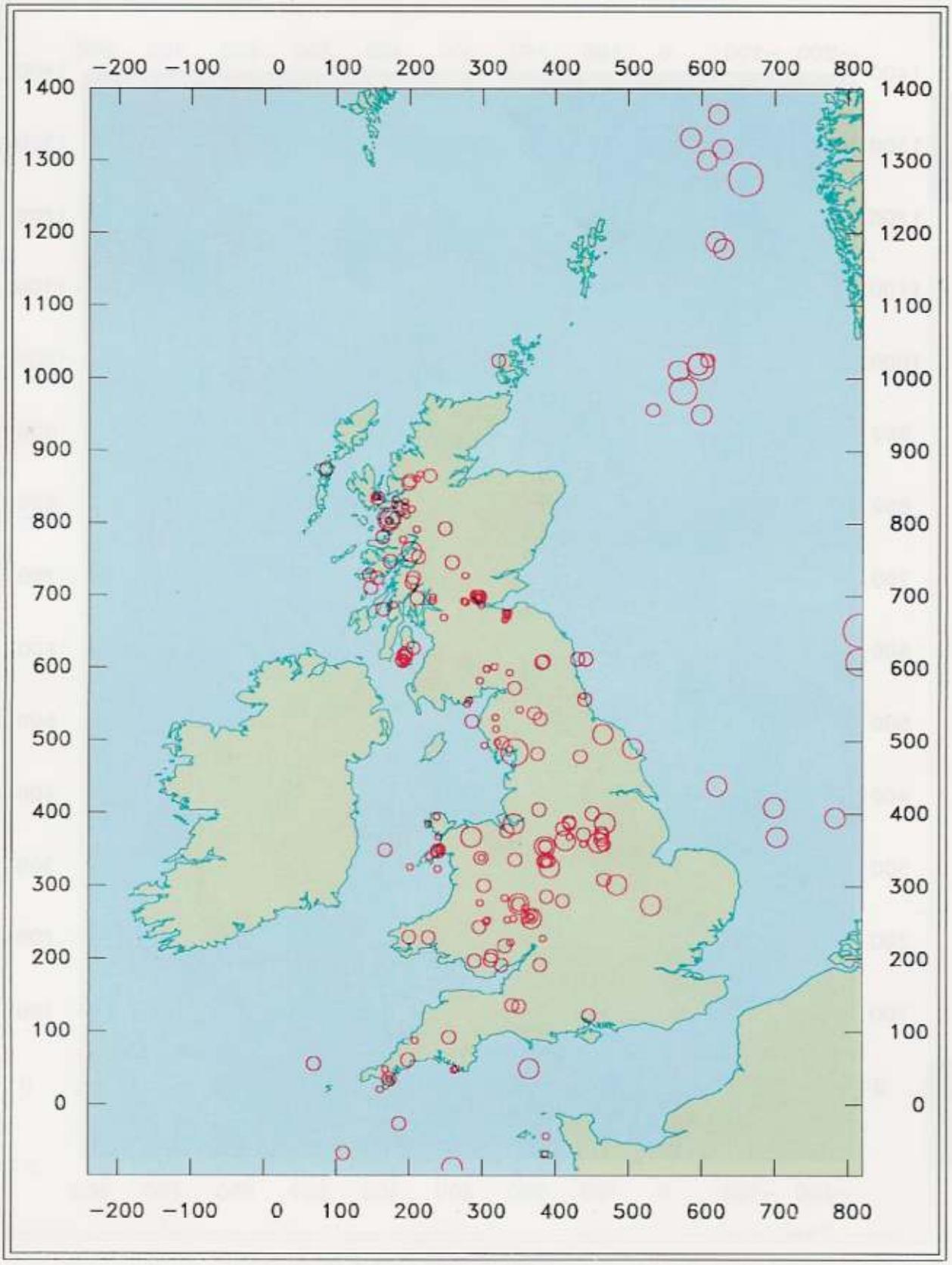


Figure 3. Epicentres of all UK earthquakes located in 1993.

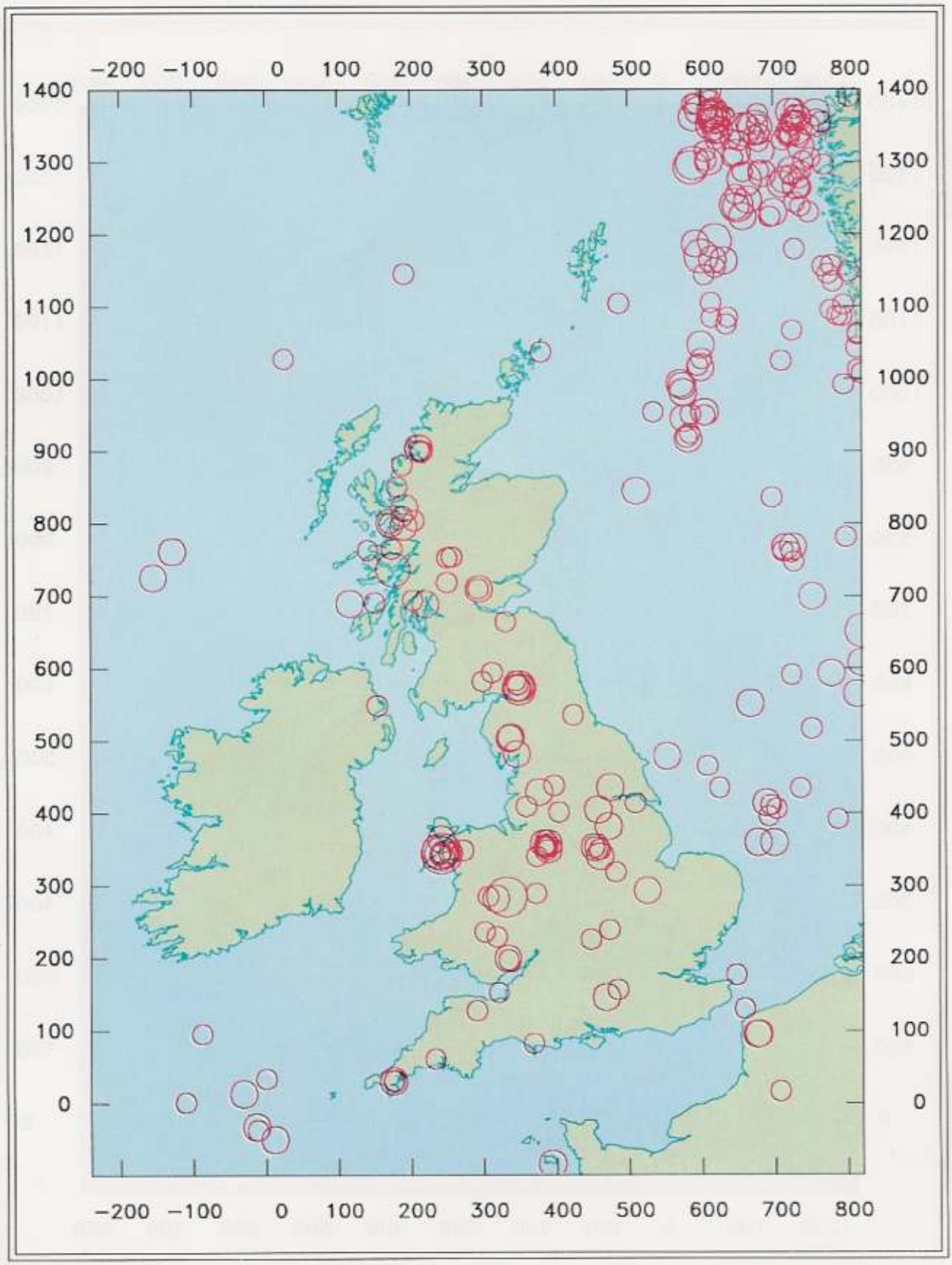


Figure 4. Epicentres of earthquakes with magnitudes 2.5 ML or greater, for the period 1979 to 1993.

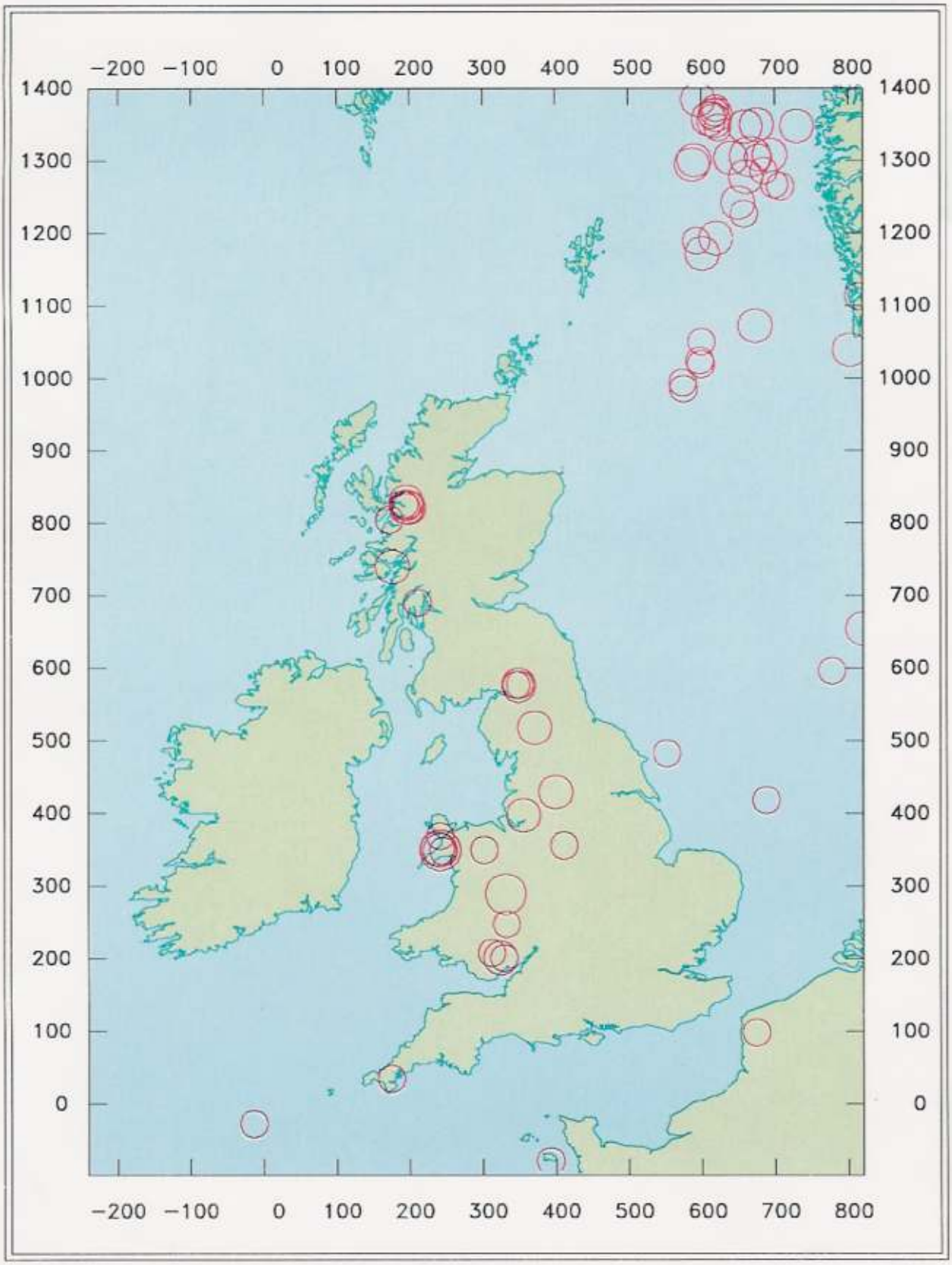


Figure 5. Epicentres of earthquakes with magnitudes 3.5 ML or greater, for the period 1970 to 1993.

APPENDIX A

SIGNIFICANT EARTHQUAKES IN 1993

APPENDIX A1

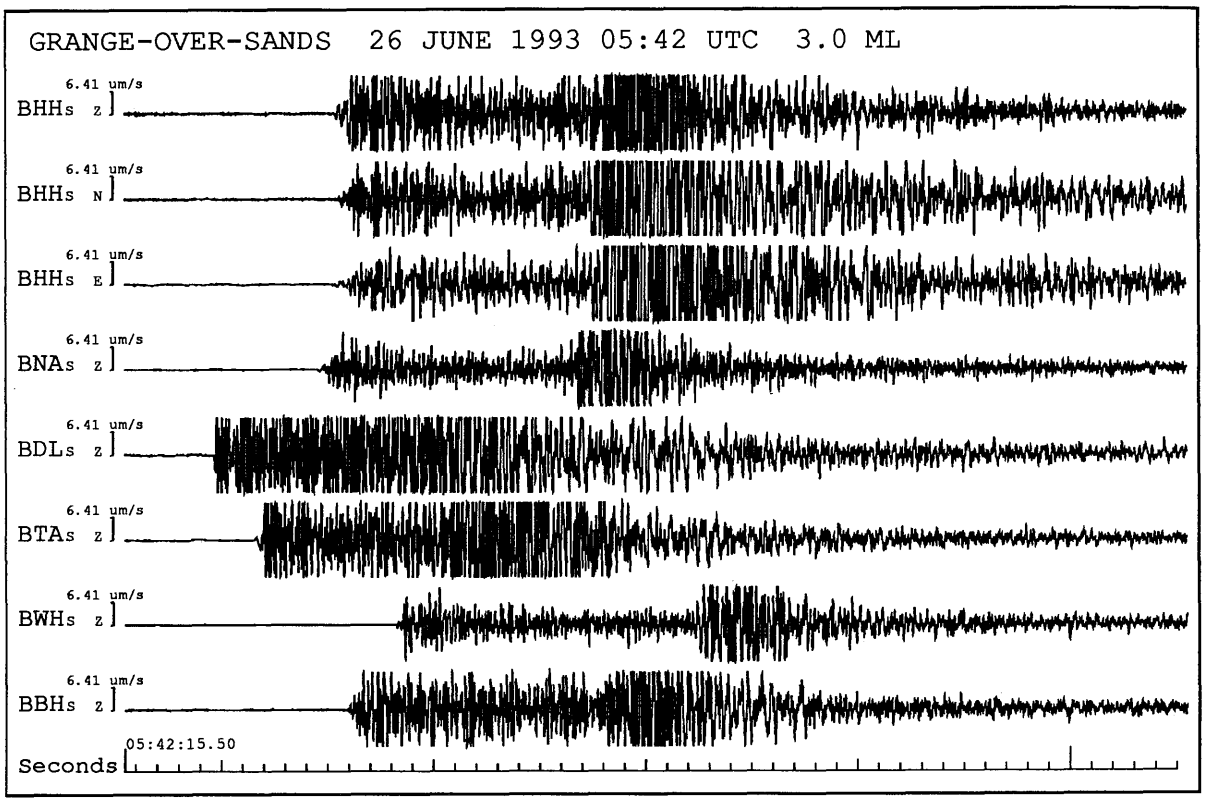
GRANGE-OVER-SANDS EARTHQUAKE, 26 JUNE 1993

PARAMETERS

Date:	**26 June 1993**
Origin Time:	**05:42 20.0 UTC**
Latitude and longitude:	**54.21° N 2.86° W**
Grid Reference:	**344.1 km E 479.3 km N**
Depth:	**8.3 km**
Magnitude:	**3.0 ML**
Hypo Solution Quality:	**C (B*C)**
Epicentral Error (1 std. dev.):	**1.4 km**
Depth Error (1 std. dev.):	**5.8 km**

Discussion

With a magnitude of 3.0 ML, the Grange-Over-Sands earthquake of 26 June 1993 was the largest of the year. Seismograms of the event from BGS monitoring networks in the Borders and North Wales are shown in Figure A1.1. The fault plane solution is poorly constrained, but three main groups of planes can be seen in Figure A1.2. The most prominent group of planes (55 in total) represents strike-slip faulting with a small component of reverse faulting, and movement on either a plane striking N-S and dipping steeply to the west or a near vertical plane striking E-W. A second group of planes represent dominant reverse faulting with a small component of strike-slip faulting, with movement on either a N-S striking plane dipping to the west or a NE-SW striking plane dipping to the SE. The final group of planes also represents dominant reverse faulting with a small component of strike-slip faulting, with movement on either a plane striking N-S and dipping to the east or a plane striking NE-SW and dipping to the NW. All three mechanisms are consistent with a NW-SE maximum compressive stress direction. A macroseismic survey was undertaken for this event and over 900 responses were received. The event was felt over an area of 2,700 km^2, with a maximum intensity near the epicentre of 5 MSK (Figure A1.3).



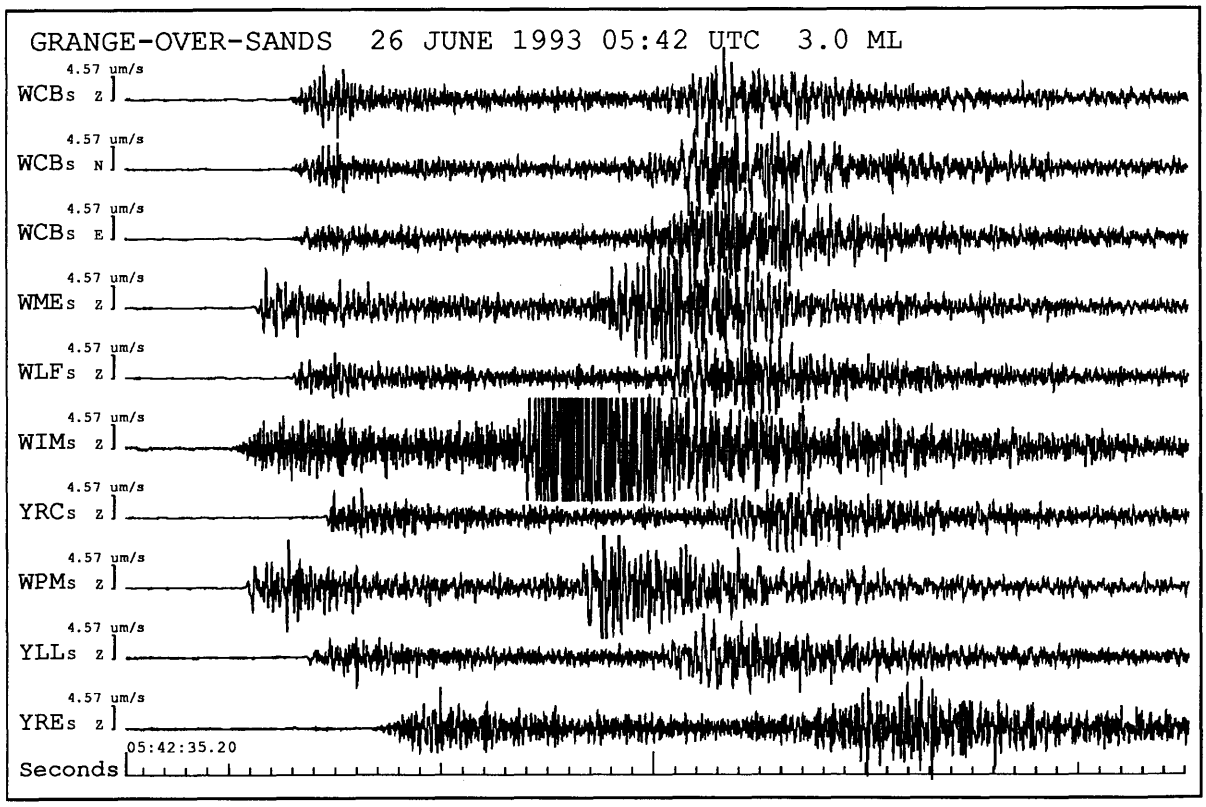
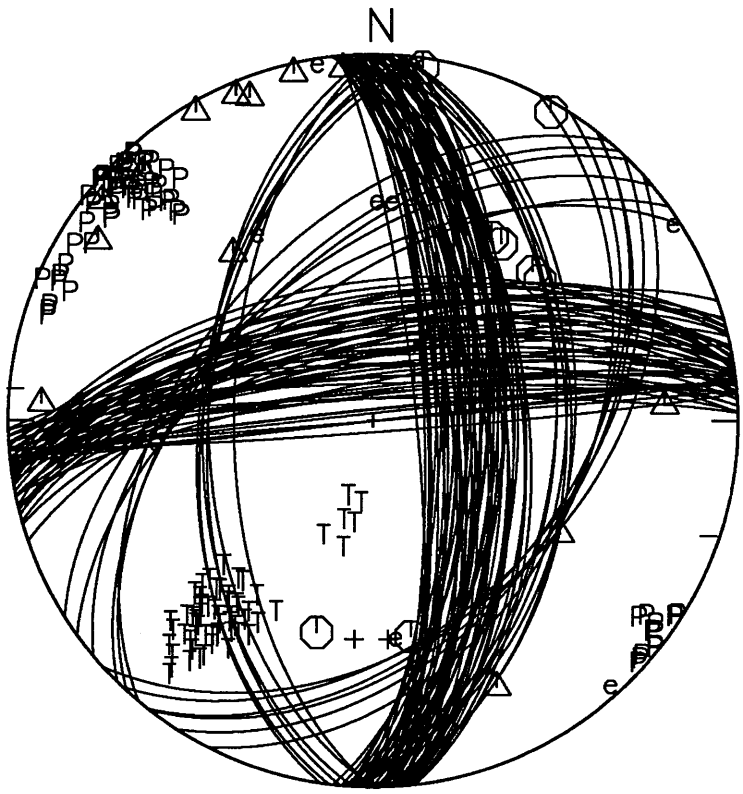


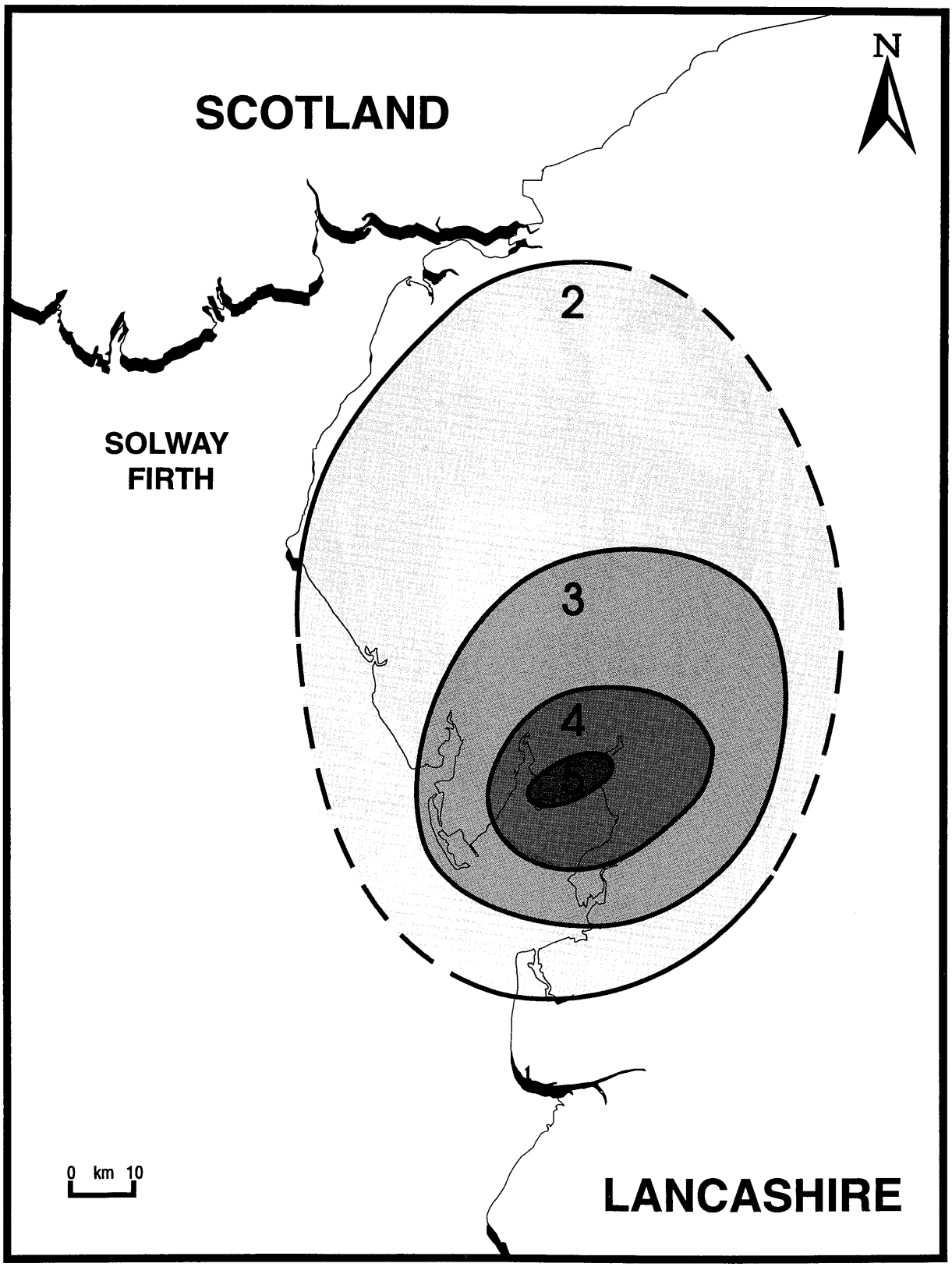
Figure A1.1. Seismograms of the Grange-Over-Sands earthquake 26 June 1993 05:42 UTC 3.0 ML recorded on the Borders and North Wales networks.

FAULT PLANE SOLUTION : GRANGE-OVER-SANDS EARTHQUAKE



Compression	⏀
Dilatation	⏃
SV/P ratio	⨯
Emergent polarity (compression)	+
Emergent polarity (dilatation)	_
Emergent arrival	e

Figure A1.2. Equal area projection of the upper focal hemisphere for the Grange-Over-Sands earthquake 26 June 1993 05:42 UTC 3.0 ML. The axes of maximum and minimum compressive stress are denoted by P and T respectively.



Grange-Over-Sands Earthquake 26th June 1993, 05:42 UTC (3.0ML) - MSK intensities

APPENDIX A2

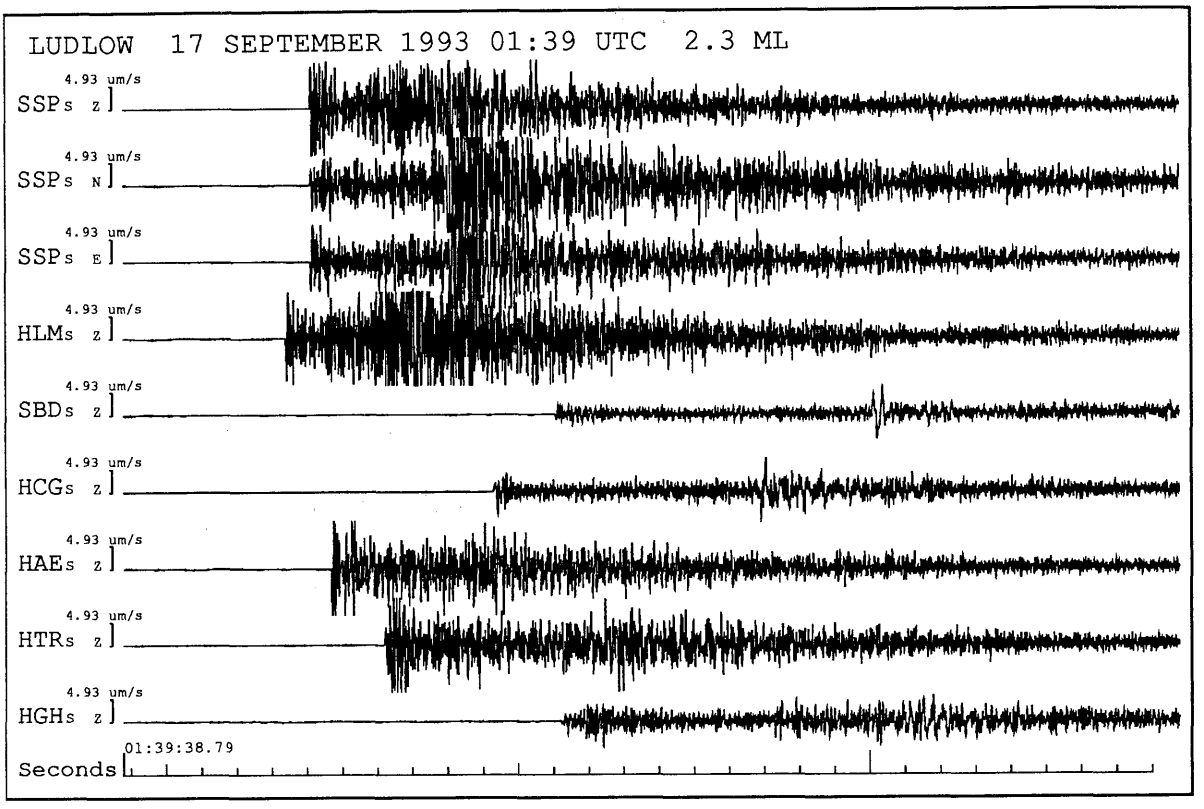
LUDLOW EARTHQUAKE, 17 SEPTEMBER 1993

PARAMETERS

Date:	**17 September 1993**
Origin Time:	**01:39 54.4 UTC**
Latitude and longitude:	**52.32° N 2.73° W**
Grid Reference:	**350.3 km E 269.0 km N**
Depth:	**14.5 km**
Magnitude:	**2.3 ML**
Hypo Solution Quality:	**B (B*B)**
Epicentral Error (1 std. dev.):	**1.3 km**
Depth Error (1 std. dev.):	**4.8 km**

Discussion

The event on 17 September was the largest of three small events located near Ludlow in that month. They all had mid-crustal depths of around 14 km. Seismograms of the earthquake from the BGS networks in Hereford and North Wales are shown in Figure A2.1. The fault plane solution (Figure A2.2), shows strike-slip faulting with a small component of thrust faulting and is in agreement with a NW-SE maximum compressive stress direction observed for Britain.



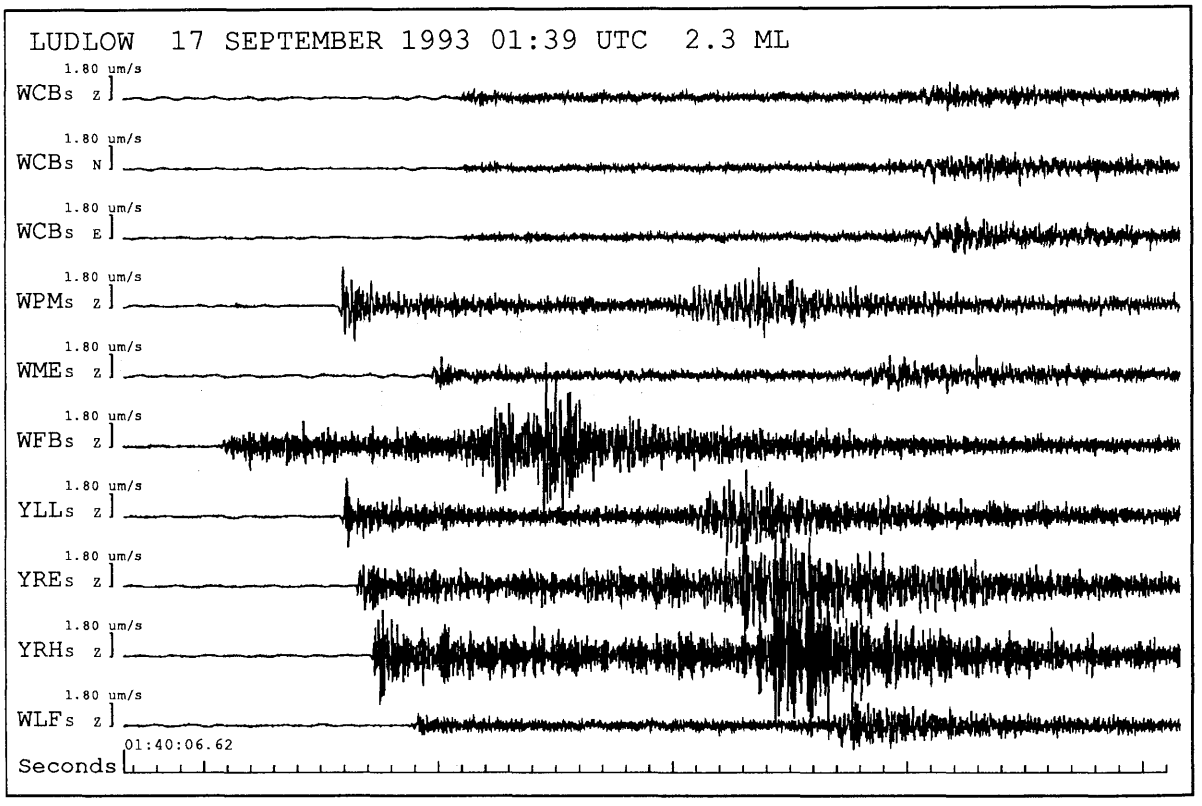


Figure A2.1. Seismograms of the Ludlow earthquake 17 September 1993 01:39 UTC 2.3 ML recorded on the Hereford and North Wales networks.

FAULT PLANE SOLUTION : LUDLOW EARTHQUAKE

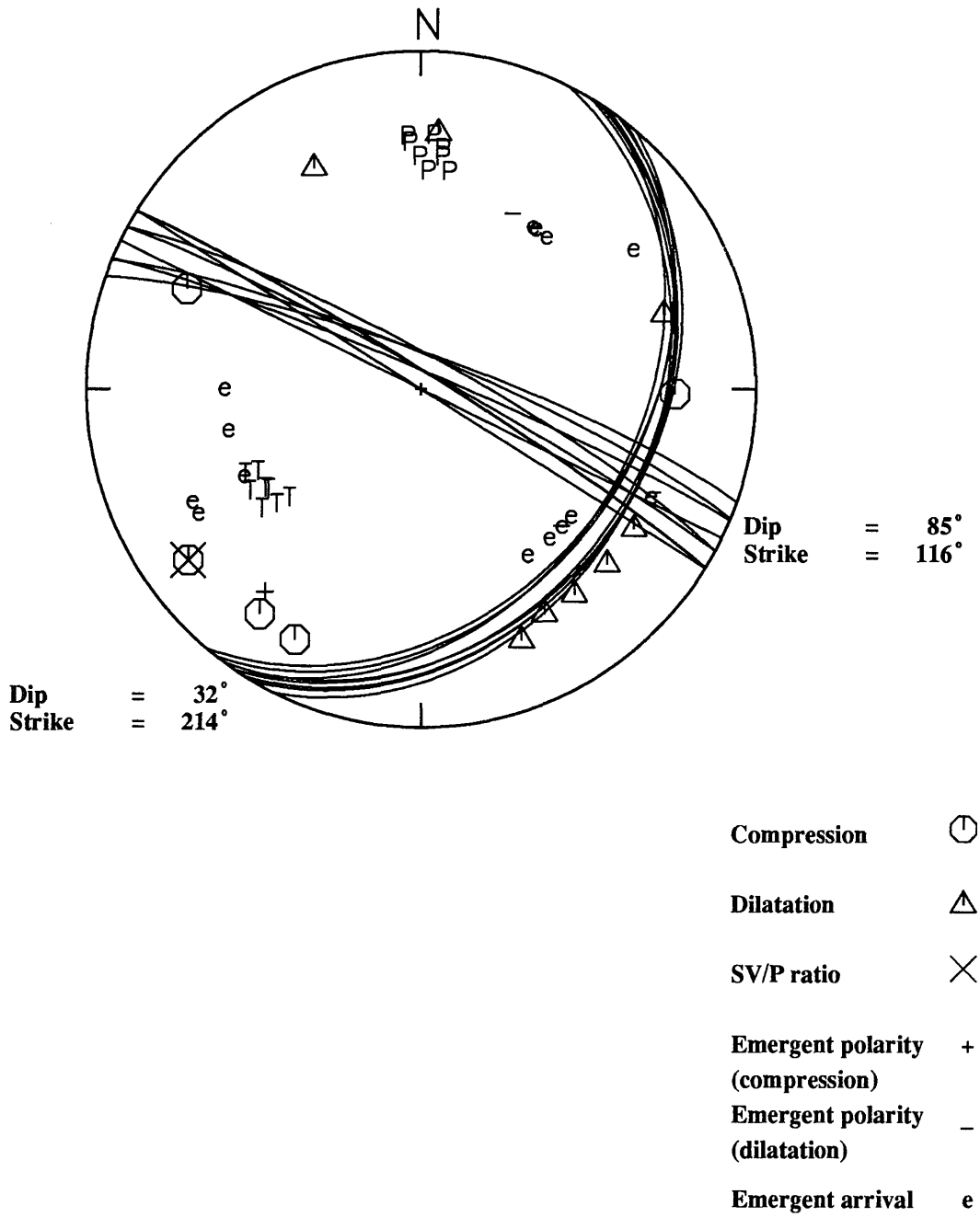


Figure A2.2. Equal area projection of the upper focal hemisphere for the Ludlow earthquake 17 September 1993 01:39 UTC 2.3 ML. The axes of maximum and minimum compressive stress are denoted by P and T respectively.

APPENDIX A3

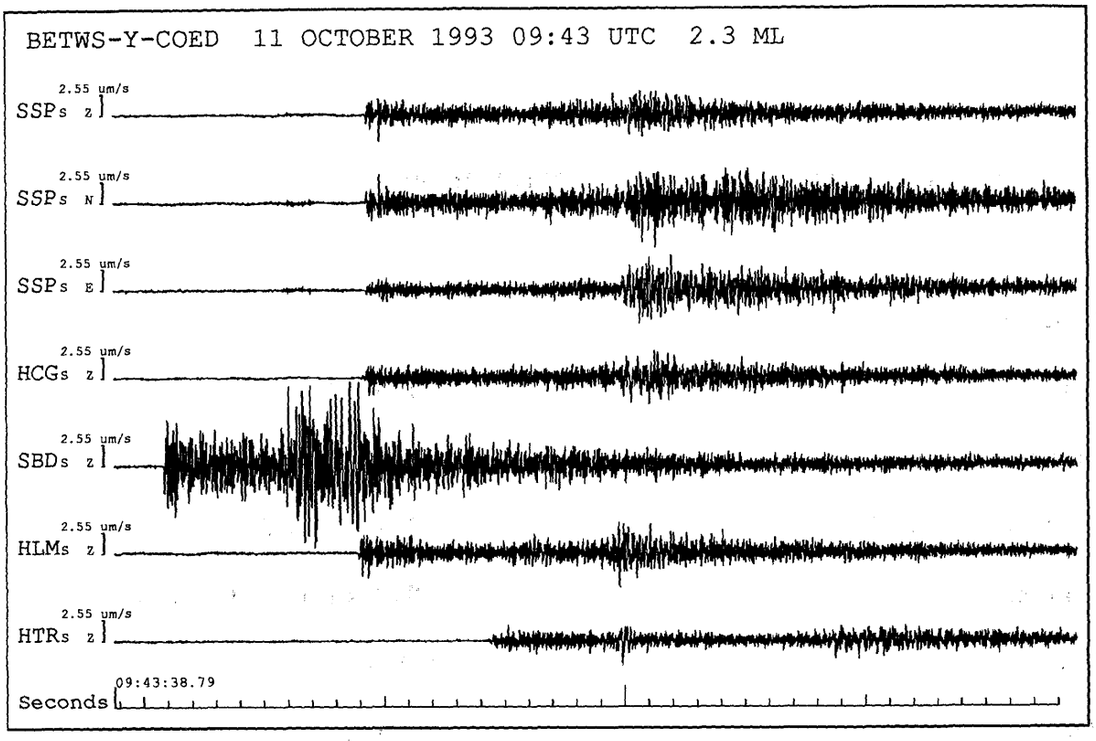
BETWS-Y-COED EARTHQUAKE, 11 OCTOBER 1993

PARAMETERS

Date:	**11 October 1993**
Origin Time:	**09:43 34.0 UTC**
Latitude and longitude:	**53.14° N 3.73° W**
Grid Reference:	**284.6 km E 361.9 km N**
Depth:	**9.3 km**
Magnitude:	**2.3 ML**
Hypo Solution Quality:	**B (B*B)**
Epicentral Error (1 std. dev.):	**2.1 km**
Depth Error (1 std. dev.):	**5.2 km**

Discussion

BGS received only a few felt reports from the Betws-y-Coed and Nantbh areas for this magnitude 2.3 ML event. No macroseismic survey was initiated. Seismograms recorded by the BGS networks in Hereford and North Wales are shown in Figure A3.1. The fault plane solution (Figure A3.2), although apparently rather poorly constrained by stations to the north east, has been improved by the use of five amplitude ratios, and shows dominant normal faulting, with a small component of strike-slip faulting. The P and T axes, while not horizontal, show general agreement with the directions of others obtained from fault plane solutions of previous North Wales earthquakes and with those from the remainder of Great Britain.



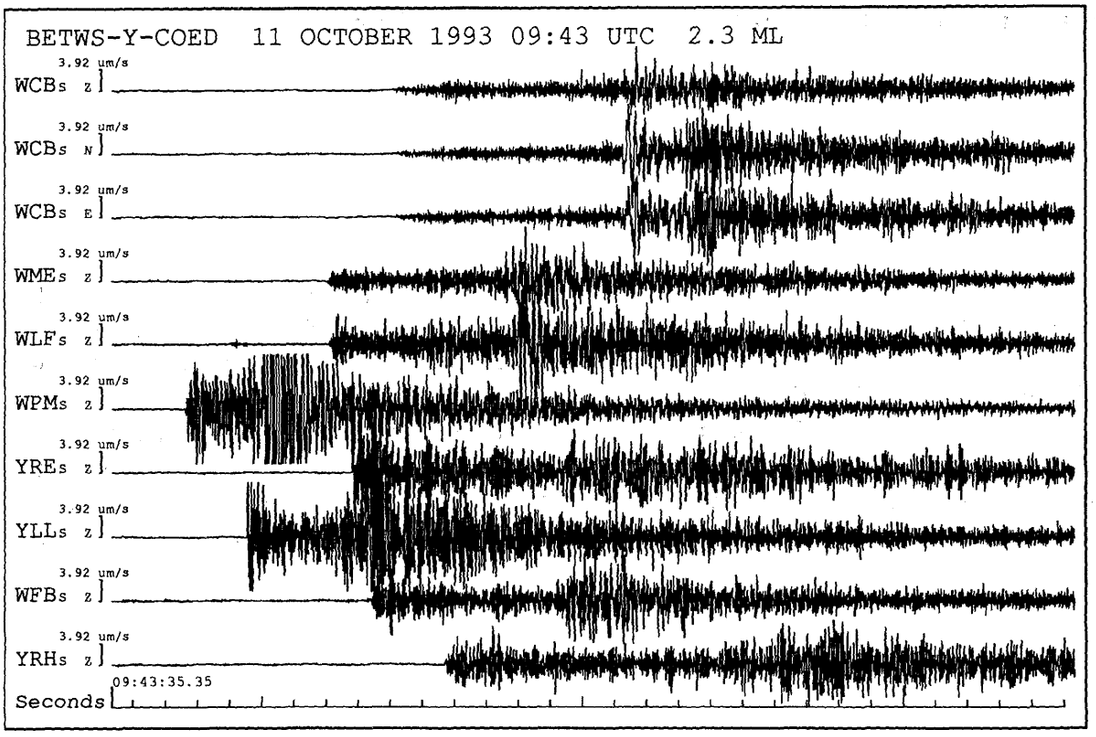


Figure A3.1. Seismograms of the Betws-Y-Coed earthquake 11 October 1993 09:43 UTC 2.3 ML recorded on the Hereford and North Wales networks.

FAULT PLANE SOLUTION : BETWS-Y-COED EARTHQUAKE

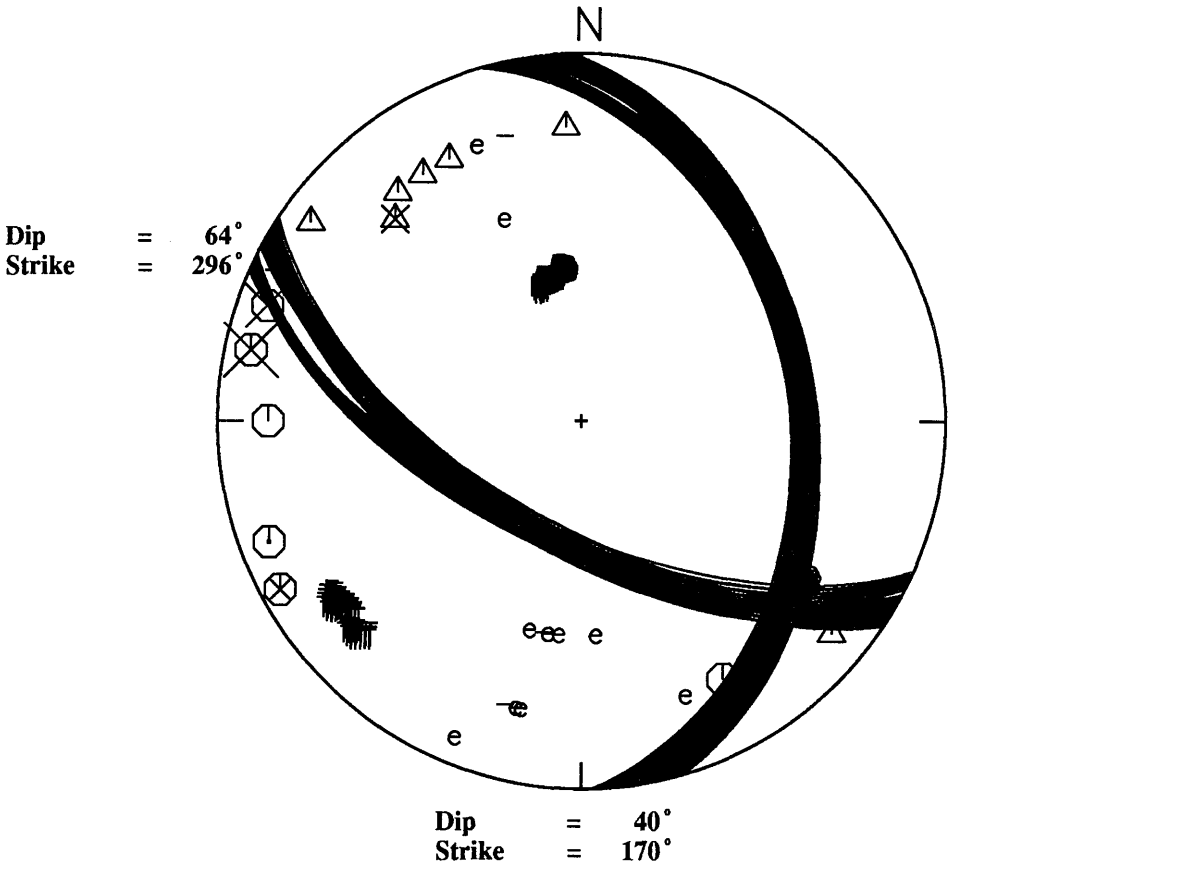


Figure A3.2. Equal area projection of the upper focal hemisphere for the Betws-Y-Coed earthquake 11 October 1993 09:43 UTC 2.3 ML. The axes of maximum and minimum compressive stress are denoted by P and T respectively.

APPENDIX B

EARTHQUAKE INFORMATION CHARGES

APPENDIX B

SUMMARY OF CHARGES FOR DATABASE ENQUIRIES	COST (£)
A search of the instrumental database producing a catalogue list, a map of the seismicity, a key to the abbreviations and a covering letter.	**£150.00 + VAT**
A search of the historical database producing a catalogue list, a map of the seismicity, a key to the abbreviations and a covering letter.	**£150.00 + VAT**
A combined search of both the historical and instrumental database providing the above for both the historical and instrumental seismicity.	**£275.00 + VAT**
An enquiry involving searching data tapes for specific events. £64.00 for first hour and £32.00 for each additional ½ hour. Note: charges can be waived for the public, media and schools.	**£64.00 + VAT**
A search and interpretation of raw macroseismic data (felt reports) for a specific region for an individual earthquake.	**£90.00 + VAT**

For more information on the above and other services available please contact Ms A B Walker at the Global Seismology Research Group, Murchison House, West Mains Road, Edinburgh, EH9 3LA.

BULLETIN OF BRITISH EARTHQUAKES: PRICE LIST

Burton, P.W. and Neilson, G.,1980. **Annual catalogues of British earthquakes recorded on LOWNET (1967-1978).** Inst.Geol.Sci. Seismological bulletin No.7.	**£3 + pp**
Turbitt, T., et al., 1984. **Catalogue of British earthquakes recorded by the BGS seismograph network 1979, 1980, 1981.** BGS Global Seismology Report No. 210.	**£11 + pp**
Turbitt, T., et al., 1985. **Catalogue of British Earthquakes recorded by the BGS Seismograph Network 1982, 1983, 1984.** BGS Global Seismology Report No. 260.	**£15 + pp**
Turbitt, T., et al., 1987. **Bulletin of British Earthquakes 1985.** BGS Global Seismology Report No. 303.	**£10 + pp**
Turbitt, T., et al., 1988. **Bulletin of British Earthquakes 1986.** BGS Global Seismology Report No. WL/88/11.	**£10 + pp**
Turbitt, T., et al., 1989. **Bulletin of British Earthquakes 1987**. BGS Global Seismology Report No. WL/89/09.	**£10 + pp**
Turbitt, T., et al., 1990. **Bulletin of British Earthquakes 1988.** BGS Global Seismology Report No. WL/90/03	**£10 + pp**

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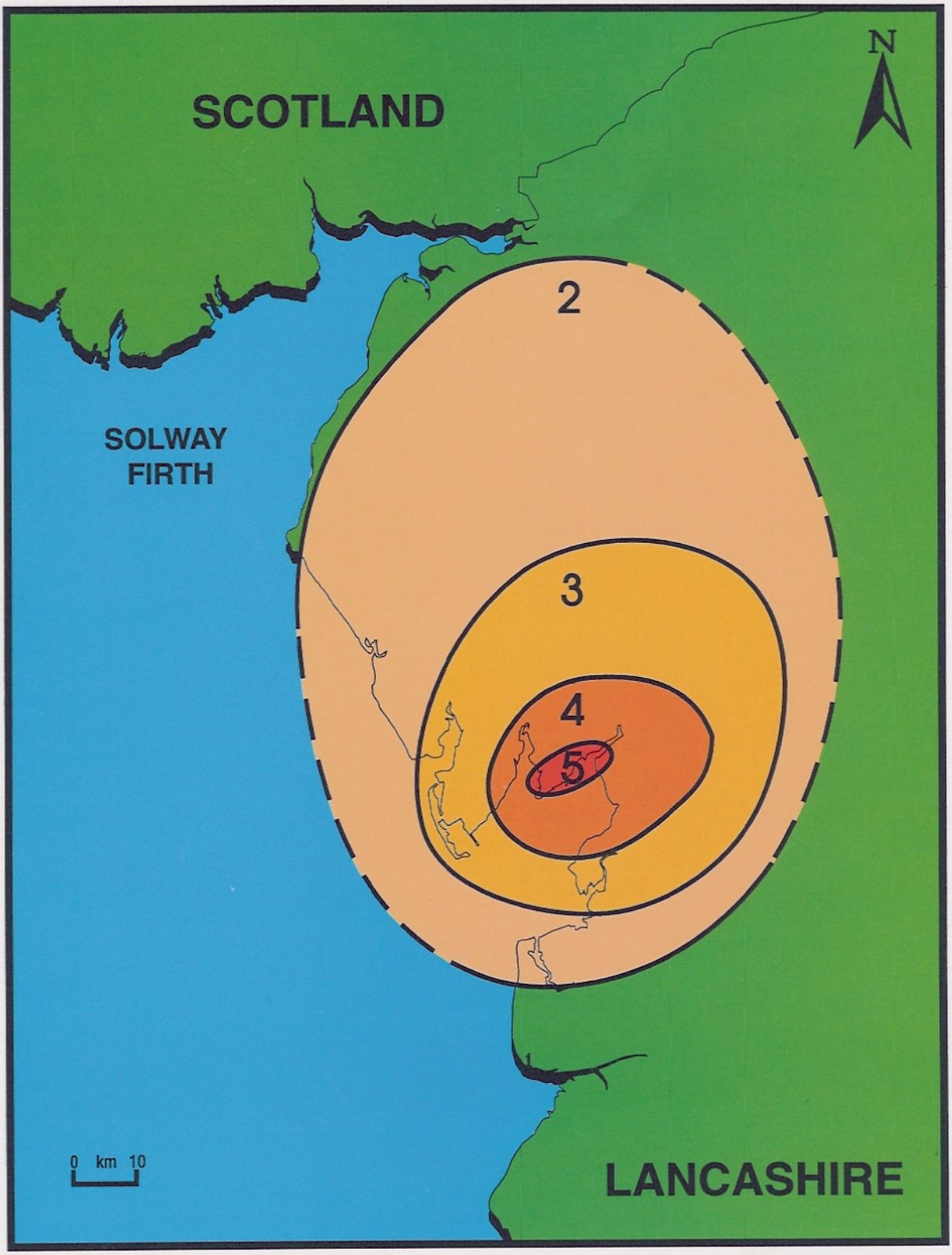
Turbitt, T., et al., 1990. **Bulletin of British Earthquakes 1989**. BGS Global Seismology Report No. WL/90/49	**£12.50 + pp**
Turbitt, T., et al.,1991. **Bulletin of British Earthquakes 1990.** BGS Global Seismology Report No. WL/91/34.	**£12.50 + pp**
Turbitt, T., et al.,1992. **Bulletin of British Earthquakes 1991.** BGS Global Seismology Report No. WL/92/29.	**£12.50 + pp**
Walker, A.B., et al., 1993. **Bulletin of British Earthquakes 1992.** BGS Global Seismology Report No. WL/93/11.	**£12.50 + pp**

A complete list of Seismology group publications can be obtained by writing to Mrs A. Muir at Global Seismology Research Group, Murchison House, West Mains Road, Edinburgh, EH9 3LA.

Natural Environment Research Council



Grange-Over-Sands Earthquake 26th June 1993, 05:42 UTC (3.0ML) - MSK intensities