

GLOBAL SEISMOLOGY

Report No 260

Catalogue of British earthquakes  
recorded by the BGS seismograph  
network 1982, 1983, 1984.

April 1985

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CATALOGUE OF BRITISH EARTHQUAKES RECORDED BY  
THE BGS SEISMOGRAPH NETWORK 1982, 1983 AND 1984

1. Introduction

Earthquakes detected and located by BGS in the years 1982, 1983 and 1984 are listed and mapped in the catalogue. The land areas of Great Britain and Northern Ireland and their coastal waters are covered within the limits of the detection capabilities of the seismograph network. A map of seismic activity in the North Sea (1982-1984) is included using the data from the North Sea catalogue for 1980-1984 by Newmark and Turbitt (1985). The expansion of the network with time and its associated effects on detection threshold and uncertainties in location accuracy are discussed and illustrated.

The seismicity of the UK since 1969 is illustrated using data extracted from the previous catalogues of Burton and Neilson (1980) and Turbitt (1984).

2. Catalogue Format

2.1 Tables

Hypocentral parameters, for each earthquake, are tabulated under the headings:

Date	- day, month, year.
Time	- hours, minutes, seconds of origin time
Lat	- Latitude, positive North.
Lon	- Longitude, positive East.
KmE	- Grid reference, easting from National Grid origin near the Scilly Isles.
KmN	- Grid reference, northing.
Dep	- hypocentral depth in km, blank indicates depth unknown. Note that depths for events of quality C, D and possibly B, are unreliable due to the large errors involved.
RMS	- root mean square error of time residuals in seconds.
q	- solution quality of the hypocentre based on the RMS of residuals (above), the implied errors in epicentre and depth and the number and distribution of stations.
Mag	- Richter local magnitude.
Locality	- a geographical indication of the epicentral area, usually the nearest town followed by the region.
Int	- Maximum felt intensity on the MSK scale (Medvedev, 1964), when known. + indicates that an event was reported felt at the intensity given but no survey was initiated to determine the maximum intensity. Comments and felt areas, where appropriate, are included on the next line.

The earthquakes have been arranged into four tables:

**TABLE 1** is a chronological listing of all earthquakes for which a reliable epicentral location could be obtained. The only exceptions are the aftershocks of the Lleyn Peninsula event on 19 July 1984; only the larger, felt events are included in Table 1. A complete list of all events in the series is given in Table 4.

**TABLE 2** is a listing of the events in Table 1 arranged in order of decreasing latitude to facilitate identification of the earthquakes in selected regions.

**TABLE 3** is a chronological listing of events which, although detected by the seismograph network, had arrival patterns too weak to permit the computation of reliable locations. An indication of the estimated epicentre is given but errors could be very large. These events are not included in Tables 1 or 2.

**TABLE 4** lists the complete series on the Lleyn Peninsula, North Wales commencing with the magnitude 5.4ML earthquake at 0656 on 19 July 1984. As all of these events occurred in a tight cluster no more than a few kilometers across, location details are not given in this Table. Epicentre and depth can be taken as equal to those given for the larger events (Table 1) where those occurring after the completion of the temporary network on 29 July 1984 are the most accurate.

## 2.2 Maps

Data from Table 1 is also presented in the maps for the regions described below for the years 1982, 1983 and 1984:

- |       |   |
|-------|---|
| Fig 2 | United Kingdom.                                     |
| Fig 3 | NW Britain.   |
| Fig 4 | NE Britain.   |
| Fig 5 | SW Britain.   |
| Fig 6 | SE Britain.   |
| Fig 7 | United Kingdom, magnitudes 2.5ML and above, 1982-84 |
| Fig 8 | United Kingdom, magnitudes 2.5ML and above, 1979-84 |
| Fig 9 | United Kingdom, magnitudes 3.5ML and above, 1969-84 |

A map of North Sea earthquakes (1982-84, Fig 10) from data by Newmark and Turbitt (1985), is included for completeness but the events are not catalogued here.

## 3. The BGS UK Seismograph Network

### 3.1 Instrumentation

A typical 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 3 channels to permit rapid investigation of reported felt tremors, at others low-gain vertical seismometers extend the dynamic range of the system to stronger motions and low frequency microphones are used to aid the discrimination of sonic booms.

### 3.2 Geographical coverage of the network

In 1969, the then Institute of Geological Sciences (IGS, now BGS) established LOWNET, a network of seismographs across the Lowland Valley of Scotland (Crampin, 1970). By 1978 further stations had been installed near Kyle, Leicester, Leeds, Hereford and Stoke and during the years 1979 to 1981 these networks were supplemented by instruments in Shetland, Moray Firth, Wales, East Anglia, Devon, Cornwall and the North Sea (Beryl). In the same period the Institute of Advanced Studies in Dublin deployed similar instruments in Ireland.

A temporary network was installed on the Lleyn Peninsula, North Wales, to study the aftershock sequence of the large earthquake on 19 July 1984. The instruments were installed within a few days of the main shock and were operated for over one year.

Figure 1 shows the stations as they existed at the end of 1984. The corresponding figure in the previous catalogue (Turbitt, 1984) shows the station distribution at the end of 1981. During the years covered by this catalogue additional stations have been installed on the networks at Kyle, Moray, Eskdalemuir, Leeds, East Anglia and Wales. New networks have been installed at Paisley, the Midlands and South Devon.

The geographical coordinates of the seismograph stations are given in Table 5. Details of stations run by other organisations in Britain and stations in Europe are included where their data is commonly used by BGS. Table 5 also includes previous BGS stations which have now been removed, to preserve a permanent record.

Microprocessor-based triggering recorders (Houliston et al. 1985) have been installed on LOWNET in Edinburgh and in the Shetland Isles. Low frequency microphones to detect and discriminate sonic booms have been added to the networks at Hartland (Devon), Wales, Leeds, Eskdalemuir and Moray.

### 3.3 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 on Figure 1 illustrate the lower threshold magnitude for an earthquake to exceed 4 nanometres at 10 Hz on at least three seismographs. Noise sources such as wind, waves, traffic and livestock vary considerably with time (about 0.5 to 15 nanometres, typically 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 1 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 felt and reported to BGS by local inhabitants. The detection capabilities by this process are strongly dependant on population density with the consequence that areas such as the Scottish Highlands have a high threshold magnitude when local networks are not monitored.

## 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 catalogue were obtained using the computer program HYPO71 (Lee and Lahr, 1975) which iteratively adjusts a trial epicentre (latitude, longitude, depth, and origin time) until the observed and computed arrival times coincide closely.

The accuracy of locations is dependant 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 general velocity model used is given in Table 6 and was derived from a series of refraction profiles traversing Britain, LISPB (Bamford et al. 1976, Assumpcao & Bamford, 1978). However, for some localised areas of activity, different models have been employed and these are explained in detail in BGS reports on the particular series.

Epicentral errors from the uncertainties discussed above range from 1 km for the Lleyn aftershock series within the dense temporary network, to 5 km for the main shock where the nearest station was 85 km away. For North Sea events where the nearest stations can be hundreds of

kilometres away and poorly distributed in azimuth, errors may be 40 km or more. For convenience in the tables, epicentre grid references and depths have been given to 0.1 km although this accuracy does not apply in all cases.

#### 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 as in the Lley Peninsula, where the error is about 2 km. Tremors in the Midlothian coalfield area usually have small depth errors due to the proximity of LOWNET stations and can be seen to lie in the first one or two kilometers near the coal workings.

For events at larger distances, depth errors may be up to tens of kilometers. The quality factor of the event as listed in the tables (q), is an indication of the depth error. As a general guide only A, and possibly 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 3.3 above), the catalogue is biased towards certain localities. In order to present a consistent picture of UK seismic activity for the period, earthquakes with magnitude 2.5 ML or greater have been plotted in Figure 7. The data set is considered complete for these magnitudes in all localities. Figure 8 combines the data for this and the previous catalogue to show true seismicity distribution in the UK for the years 1979-1984 for magnitudes equal to or greater than 2.5. Seismicity for 1969-1984 is shown in Figure 9 with a threshold magnitude of 3.5. This is the period covered by BGS instrumentation which consisted only of LOWNET and Eskdalemuir (ESK) in the early years. Events from this period are under revision and location errors are being assessed for publication in later catalogues.

#### 4.4 Magnitude

Almost all earthquakes in the catalogue have been assigned a local magnitude (ML) as defined by Richter (1935) :

$$ML = \log_{10}(A/A_0)$$

where A is the deflection (centre to peak in mm) registered by the

earthquake on a Wood-Anderson seismograph and  $A_0$  is that for a "standard" magnitude zero earthquake at the same distance. The  $A_0$  term is thus a distance correction factor and was 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,  $A_0$ , strictly only applies to California, the formula is still used world-wide today. The ML magnitudes in this catalogue 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 catalogue 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 ( $I_0$ ) usually found close to the epicentre. The maximum felt intensity is quoted, where known, on the MSK scale (Medvedev et al. 1964).

### **5. Catalogue content and completeness**

#### **5.1 The geographical area**

The catalogue covers all of the UK land mass and its coastal waters including the North Sea to  $2^{\circ}$  E and  $60^{\circ}$  N. The North Sea as a whole is covered in the BGS catalogue for that area (Newmark and Turbitt, 1985).

#### **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 the coal workings and are believed to be caused by the redistribution of stress as the coal is extracted.

#### **5.3 Events excluded**

Events that are known, or suspected to be of explosive origin are excluded from the catalogue. Explosions due to quarrying, mining,



weapon testing or disposal, naval exercises, geophysical prospecting and civil engineering are all excluded where possible. Unfortunately, identification by record character, location and time of occurrence is not always positive and some man-made events may have been included in the catalogue or, more rarely, a small natural event may have been excluded.

Acoustic disturbances, such as sonic booms from supersonic aircraft are also excluded although when felt they are included in Table 3. The air-borne waves are readily identified by their slow travel time across an array or by their signature on a microphone.

#### **5.4 Completeness**

The contours of detection threshold in Figure 1 show that the whole of the UK is covered by the seismograph network for magnitude 1.7 approximately, and above, at times of low ambient noise levels. High noise levels may cause this threshold to rise to about 2.5. Normally, however an earthquake of this size would be felt if not detected in the areas of poorer instrumental coverage. The catalogue can, therefore, be assumed to be complete for all earthquakes of magnitude 2.5 and above.

#### **ACKNOWLEDGEMENTS**

Interchange of data with the Dublin Institute of Advanced Studies, the University of Bergen, NORSAR and other European agencies through the International Seismological Centre, made the location of many of these events possible.

We are indebted to Mobil North Sea, Mobil Exploration (Norway), the Camborne School of Mines, The States of Jersey Met. Office, the Universities of East Anglia, Leeds and Leicester and many other individuals who assisted with station operation.

The work was funded in part by the Department of Energy, The Jersey New Waterworks Company, Renfrew District Council and the Department of the Environment and was supported by the Natural Environment Research Council. It is published with the approval of the Director of the British Geological Survey (NERC).

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Table 1 : British earthquakes 1982, 1983, 1984, listed chronologically

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
060182	114121.5	56.11	-3.63	298.6	691.7	0.2	0.13C	0.7		BLACK DEVON,FIFE	
060182	154530.6	56.11	-3.65	297.3	691.7	0.5	0.25C	0.8		BLACK DEVON,FIFE	
070182	03735.0	55.90	-3.06	333.4	667.4	6.0	0.01C	-0.6		LEADBURN,LOTHIAN	
070182	105428.6	56.15	-3.61	300.0	695.9	7.3	0.06C	0.5		BLACK DEVON,FIFE	
070182	1537 9.6	56.13	-3.71	293.9	694.5	0.9	0.11C	0.5		BLACK DEVON,FIFE	
070182	182213.8	50.14	-5.14	175.4	31.3	7.1	0.14D	0.5		NR FALMOUTH,CORNWALL	
070182	202718.4	55.86	-3.12	329.7	663.4	10.7	0.03C	0.1		ROSEWELL,LOTHIAN	
090182	194831.5	55.88	-3.06	333.7	666.2	2.5	0.07C	-0.4		BONNYRIGG,LOTHIAN	
110182	191352.6	55.86	-3.08	332.5	663.7	7.0	0.03C	0.1		GOREBRIDGE,LOTHIAN	
120182	125723.7	55.52	-5.56	175.5	630.6	2.1	0.02C	2.0		CAMPBELTOWN,ST`CLYDE	
130182	9 3 5.4	55.43	-5.48	179.7	621.1	0.1	0.37D	1.5		KILBRANNAN SOUND	
130182	114755.7	56.12	-3.64	298.0	693.5	1.0	0.04B	0.7		BLACK DEVON,FIFE	
130182	153643.7	56.12	-3.66	296.9	692.9	1.0	0.15D	0.5		BLACK DEVON,FIFE	
140182	4 049.2	56.14	-3.59	301.0	695.0	2.7	0.06C	1.3		BLACK DEVON,FIFE	
140182	113924.7	56.22	-3.26	321.9	703.4	1.5	0.12C	0.4		AUCHMUIR BR,FIFE	
140182	153429.5	56.12	-3.61	299.8	692.6	1.2	0.23C	0.9		NR BLAIRHALL,FIFE	
190182	153353.0	56.10	-3.66	297.0	691.2	1.0	0.40C	1.1		BLACK DEVON,FIFE	
200182	742 4.6	55.84	-3.12	329.5	661.5	0.3	0.10B	0.8		NR ROSEWELL,LOTHIAN	
200182	93020.5	55.34	-5.57	173.4	610.7	2.3	0.29D	1.9		MACHARIOCH,KINTYRE	
200182	1056 4.5	56.10	-3.60	300.3	690.7	3.3	0.07C	0.6		BLAIRHALL,FIFE	
200182	115551.9	56.19	-5.21	200.9	704.4	8.7	0.62D	1.5		LOCH LEACANN,ARGYLL	
240182	181538.1	50.26	-4.91	192.4	43.9	13.4	0.02C	0.7		TREGONY,CORNWALL	
240182	181642.5	50.26	-4.91	192.3	43.9	14.1	0.00C	-0.5		TREGONY,CORNWALL	
270182	153332.4	56.13	-3.62	299.5	694.0	5.8	0.17C	0.7		SALINE,FIFE	
310182	162525.9	56.42	-4.36	254.2	728.2	7.3	0.64D	1.7		SW OF KILLIN,TAYSIDE	
310182	231936.8	55.87	-3.10	331.5	665.0	5.9	0.02B	-0.1		BONNYRIGG,LOTHIAN	
020282	155847.5	56.14	-3.60	300.5	695.0	12.8	0.06C	0.4		BLACK DEVON,FIFE	
020282	21 935.5	53.10	-1.03	465.0	356.4	5.0	0.86D	1.8		FARNSFIELD,NOTTS	
030282	16 023.8	56.13	-3.57	302.1	694.1	0.5	0.20C	0.2		BALGONAR,FIFE	
040282	191916.8	55.87	-3.22	323.5	664.1	10.1	0.10C	0.1		PENICUIK,LOTHIAN	
050282	201135.2	55.92	-3.10	331.1	670.0	4.7	0.01C	0.0		DANDERHALL,LOTHIAN	
050282	201354.3	55.94	-3.09	331.9	672.8	1.5	0.02C	0.4		EDINBURGH	
060282	1043 2.9	56.10	-3.58	301.6	690.5	8.5	0.11C	0.3		BLAIRHALL,FIFE	
070282	162336.2	57.02	-5.12	210.4	796.7	2.4	0.07D	0.9		LOCH ARKAIG,HIGHLAND	
070282	1714 7.5	57.01	-5.25	202.5	796.3	10.7	0.07D	0.6		LOCH ARKAIG,HIGHLAND	
080282	64020.4	57.24	-5.68	178.0	822.3	2.0	0.40D	2.2		EASTERN SKYE,HIGHLAND	
080282	85059.2	57.21	-5.81	170.2	820.0	3.0	0.45D	1.3		EASTERN SKYE,HIGHLAND	
080282	175813.8	55.91	-3.10	331.5	668.9	1.5	0.03C	0.5		DANDERHALL,LOTHIAN	
080282	1819 8.5	57.25	-5.73	175.1	823.8	0.4	0.21D	0.8		EASTERN SKYE,HIGHLAND	
100282	101440.7	56.14	-3.70	294.4	695.1	8.7	0.09C	0.5		BLACK DEVON,FIFE	
100282	1044 7.4	55.90	-3.09	331.7	667.6	8.7	0.17C	0.6		BONNYRIGG,LOTHIAN	
130282	194426.7	55.91	-3.11	330.5	668.6	7.3	0.00C	0.4		DANDERHALL,LOTHIAN	
140282	161853.2	56.04	-4.99	213.8	687.1	0.8	0.17D	1.2		LOCH ECK,STRATHCLYDE	
150282	114213.9	52.80	-2.06	396.0	322.8	11.5	1.27D	1.3		STAFFORD,STAFFS	
150282	114232.2	56.13	-3.63	298.5	694.2	2.7	0.21C	0.8		BLACK DEVON,FIFE	
160282	153835.3	53.16	-2.13	391.4	362.4	0.0	0.12C	2.4		NR CONGLETON,CHESHIRE	
250282	14 5 4.2	55.64	-3.18	325.8	639.2	2.3	0.16C	1.3		PEEBLES,BORDERS	
030382	164927.0	53.10	-1.02	465.5	356.8	9.3	0.59D	2.2		FARNSFIELD,NOTTS	
090382	31937.9	57.43	-5.35	198.7	842.2	3.5	0.10D	1.4		NR STRATHCARRON,HIGHL	
130382	55838.0	53.07	-1.06	463.2	352.9	5.0	0.25D	1.7		OXTON,NOTTINGHAMSHIRE	
180382	165824.4	50.17	-3.61	285.0	30.8	0.5	0.08C	2.1		OFF START POINT,CORN	
190382	22656.5	55.61	-1.89	407.0	635.5	0.5	0.09D	1.8		HOLBURN, N.UMBERLAND	
240382	163934.1	54.10	0.21	544.5	469.5	0.0	0.47D	2.1		OFF FLAMBOURGH HEAD	

Table 1 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
020482	105158.3	53.20	-1.85	410.2	367.1	0.0	0.23C	1.6	EARL STERNDAL	DERBY	
020482	141423.6	57.15	-5.30	200.3	810.9	3.7	0.45D	1.5	GLENSHIEL	HIGHLAND	
020482	204033.5	53.15	-1.00	467.2	362.5	5.0	0.81D	1.7	EAKRING	NOTTS	
030482	35941.1	55.85	-3.14	328.7	662.9	0.6	0.09B	0.8	ROSEWELL	LOTHIAN	
040482	214346.3	51.99	-3.47	298.9	233.8	5.0	0.37D	2.6	PONT-FAEN	POWYS	
050482	14 134.4	55.14	-2.79	349.7	582.9	5.0	0.27D	1.6	KERSHOPE FOREST	CUM	
050482	154144.7	56.14	-3.61	299.8	694.9	0.4	0.11B	0.5	BLACK DEVON	FIFE	
070482	154338.3	56.12	-3.64	298.1	693.6	4.5	0.10C	0.7	BLACK DEVON	FIFE	
090482	1436 4.3	53.06	-2.22	385.5	351.5	0.0	0.16C	2.7	STOKE-ON-TRENT		2+
120482	143554.5	56.10	-3.66	296.9	691.2	1.1	0.18C	1.1	BLACK DEVON	FIFE	
140482	151939.8	56.11	-3.68	295.6	692.0	5.0	0.23C	0.9	BLACK DEVON	FIFE	
150482	231321.9	56.05	-3.69	294.6	685.9	5.0	0.11B	1.5	KINCARDINE	FIFE	
220482	14 134.0	55.23	-2.84	346.4	593.5	1.1	0.16D	1.0	NE OF LANGHOLM	DUM&GA	
240482	24559.9	55.86	-3.14	328.6	663.1	0.3	0.10B	1.6	ROSLIN	LOTHIAN	2+
									FELT ROSLIN		
260482	142945.9	54.41	-2.55	364.2	502.3	5.0	0.24D	1.9	SE OF TEBAY	CUMBRIA	
270482	52348.6	55.13	-4.27	255.4	584.2	9.5	0.35D	0.8	LOCH DUNGEON	DUM&GA	
280482	141629.4	55.11	-2.93	340.7	579.9	4.1	0.35D	1.4	CANONBIE	DUMFRIES&GAL	
080582	1432 8.8	55.55	-1.82	411.6	628.5	1.0	0.31D	1.8	WARENFORD	N`UMBERLAND	
100582	1334 4.8	55.14	-2.81	348.6	583.2	1.0	0.19D	1.4	KERSHOPE FOREST	CUM	
110582	104430.2	53.55	0.99	598.0	410.1	5.0	0.22D	2.3	OFF MABLETHORPE	LINCS	
140582	21038.5	53.17	-0.94	470.5	363.7	5.0	0.48D	1.4	KNEESALL	NOTTS	
140582	74628.7	51.64	-2.73	349.4	193.9	20.0	0.07C	0.8	E OF CHEPSTOW	GWENT	
170582	112938.5	56.25	-3.16	328.2	707.0	1.0	0.92D	0.7	MUIRHEAD	FIFE	
280582	32442.1	55.01	-2.90	342.7	568.6	0.5	0.12D	1.0	E OF LONGTOWN	CUMBRIA	
070682	12 0 7.2	57.23	-3.79	292.0	816.7	0.5	0.39D	0.8	AVIEMORE	HIGHLAND	
100682	155541.8	56.14	-3.63	298.6	695.4	1.0	0.27C	0.6	BLACK DEVON	FIFE	
100682	18 858.1	55.94	-3.10	331.4	672.2	2.3	0.09C	0.6	EDINBURGH		
100682	20 939.9	56.47	-4.14	268.4	733.4	3.8	0.20C	0.5	S OF L TAY	TAYSIDE	
110682	102643.2	56.11	-3.65	297.3	691.7	0.7	0.04B	1.2	BLACK DEVON	FIFE	
120682	201853.5	55.11	-2.92	341.2	579.9	1.0	0.20D	0.9	SE OF LANGHOLM	DUM&GA	
130682	22013.6	54.50	-2.78	349.6	511.8	1.0	0.35D	1.3	HAWESWATER RESR	CUM	
140682	155955.7	56.10	-3.64	298.0	691.3	3.1	0.28C	0.7	BLACK DEVON	FIFE	
020782	33831.3	53.64	-1.02	464.7	416.8	0.5	0.21D	1.9	SYKEHOUSE	SOUTH YORK	
060782	62032.2	57.37	-5.73	175.8	836.8	3.1	0.21D	1.3	NR L CARRON	HIGHLAND	
060782	1533 3.1	56.19	-5.46	185.5	705.1	5.0	0.59D	1.4	SOUTH LOCH AWE	STRATH	
140782	154640.2	56.13	-3.63	298.5	694.2	0.9	0.05C	0.3	BLACK DEVON	FIFE	
190782	133352.2	51.18	-1.06	466.0	143.2	1.4	0.09D	3.0	NR BASINGSTOKE	HANTS	4+
070882	14157.0	55.80	-3.13	329.4	657.1	13.4	0.02C	0.2	E OF PENICUIK	LOTHIAN	
090882	1125 6.4	52.96	-3.81	278.7	342.4	0.2	0.28D	3.1	NR FFESTINIIOG	GWYNEDD	3+
									FELT BLAENAU FFESTNG AREA		
130882	72838.5	55.87	-3.12	329.9	664.5	0.1	0.04B	1.0	POLTON	LOTHIAN	
200882	1219 8.9	56.81	-4.87	224.9	772.6	0.0	0.17C	1.5	BEN NEVIS	HIGHLAND	
240882	1 157.7	55.85	-3.14	328.9	662.8	0.6	0.04B	0.6	ROSEWELL	LOTHIAN	
310882	152729.4	51.07	-3.97	262.0	132.6	5.0	0.52D	1.1	NR BARNSTAPLE	DEVON	
160982	60744.7	57.30	-5.01	218.4	827.7	0.1	0.38D	2.0	W OF CANNICH	HIGHLAND	2+
170982	20 129.0	55.85	-3.12	330.1	662.5	0.4	0.04B	0.9	ROSEWELL	LOTHIAN	
250982	22 521.7	59.63	1.27			15.0	1.68D	1.3	NORTH SEA		
290982	163736.2	55.44	-1.60	425.1	616.2	0.1	0.40D	1.7	LONGHOUGHTON	N`UMBER	
081082	55637.4	55.85	-3.12	329.6	661.8	2.5	0.08C	0.8	ROSEWELL	LOTHIAN	
111082	175142.5	55.85	-3.12	330.1	662.4	0.7	0.07C	0.6	ROSEWELL	LOTHIAN	
141082	62623.3	55.85	-3.14	328.9	662.1	0.7	0.13C	1.4	ROSEWELL	LOTHIAN	2+
									FELT ROSEWELL		

Table 1 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
211082	234927.4	55.85	-3.12	330.1	662.5	0.4	0.08B	1.1	ROSEWELL,LOTHIAN		
271082	235733.6	57.23	-5.46	191.0	820.6	2.5	0.43C	3.0	RATAGAN FOREST,HIGH	4+	
281082	0 8 2.8	57.23	-5.48	189.7	820.4	5.0	0.14D	1.5	RATAGAN FOREST,HIGH		
301082	15 118.7	55.85	-3.12	330.0	662.6	0.5	0.08B	1.1	ROSEWELL,LOTHIAN		
031182	123239.7	54.68	-2.25	384.1	531.6	5.0	0.19D	1.4	LANGDON BECK,DURHAM		
061182	52414.3	55.85	-3.12	329.9	662.5	1.2	0.09D	1.0	ROSEWELL,LOTHIAN		
161182	55315.5	55.85	-3.13	329.4	662.6	1.5	0.11B	0.8	ROSEWELL,LOTHIAN		
171182	161437.1	53.23	-1.72	418.7	370.3	5.0	0.37D	1.6	BUXTON,DERBYSHIRE		
211182	141153.6	50.37	-5.24	169.4	57.5	7.7	0.03D	0.6	OFF PERRANPORTH,CORN		
221182	14 741.4	55.70	-3.29	319.1	645.6	7.6	0.12D	0.9	NR PEEBLES,BORDERS		
301182	111721.9	50.12	-5.03	183.4	28.9	3.4	0.02C	-0.1	FALMOUTH BAY,CORNWALL		
081282	220219.2	55.85	-3.13	329.3	662.4	0.3	0.09B	0.6	ROSEWELL,LOTHIAN		
111282	230154.3	50.33	-4.97	188.5	51.8	2.6	0.05D	0.0	NR LADCOCK,CORNWALL		
151282	224131.6	55.93	-3.19	325.8	670.9	9.0	1.64D	0.7	DANDERHALL,LOTHIAN		
191282	123727.5	56.09	-4.20	263.4	691.2	5.0	1.34D	0.8	NEAR KIPPEN,CENTRAL		
221282	044516.2	57.40	-5.37	197.4	839.6	1.5	0.05D	1.4	ATTADALE FOREST,HIGH		
301282	0346 5.7	50.52	-4.62	214.5	72.4	4.9	0.10C	1.0	NE BODMIN,CORNWALL		
040183	024019.0	58.4	-1.2						NORTH SEA		
260183	172023.6	50.17	-4.51	220.6	32.8	7.6	0.20D	1.0	S OF POLPERRO,CORNWL		
270183	160320.6	56.62	-2.64	360.5	748.2	3.5	0.17D	1.6	FORFAR,TAYSIDE		
280183	182531.0	55.25	-3.40	310.9	596.0	15.0	0.09D	1.4	LOCKERBIE,DUMF&GA		
010283	200721.0	49.76	-5.70	133.8	-9.0	5.0	0.04D	1.4	SW LIZARD PT,CORNWALL		
200283	022957.4	55.24	-3.48	306.2	595.0	9.3	0.13D	1.5	MOFFAT,DUMF&GA		
250283	225953.4	56.87	-4.98	218.2	779.5	2.9	0.36D	2.4	FT.WILLIAM,HIGHLAND	3+	
020383	130733.8	54.28	-1.93	404.8	487.4	0.4	0.44C	1.6	WENSLEYDALE,N.YORKS		
030383	0211 1.3	55.84	-3.11	330.5	661.5	10.2	0.46C	0.5	DALKEITH,MIDLOTHIAN		
070383	033357.9	50.59	-4.29	237.7	78.9	0.0	0.30C	0.8	LAUNCESTON,CORNWALL		
080383	193642.6	55.95	-5.65	172.2	679.4	5.6	0.14C	2.4	LOCHGILPHEAD,ST'CLYDE	3+	
080383	203444.5	55.94	-5.69	169.5	677.9	6.0	0.40D	2.0	LOCHGILPHEAD,ST'CLYDE	2+	
090383	104314.5	56.02	-5.87	159.1	687.9	9.5	0.23D	1.8	LOCHGILPHEAD,ST'CLYDE		
110383	0726 1.6	52.69	-1.01	467.2	310.8	4.0	0.47D	2.3	LEICESTER		
110383	185344.2	55.26	-3.41	310.4	596.6	4.4	0.16C	2.3	MOFFAT,DUMF&GA	3+	
150383	204417.9	54.84	-1.54	429.8	549.6	7.1	0.28D	1.2	CHESTER LE STREET,DUR		
160383	042115.1	52.99	-0.98	468.8	344.1	5.0	0.64D	1.7	NOTTINGHAM	2+	
									FELT WOODBOROUGH		
190383	102150.7	56.76	-3.48	309.5	764.1	0.4	0.13D	1.1	PITLOCHRY,TAYSIDE		
250383	162529.0	55.99	-4.06	271.4	679.7	8.8	0.10D	0.9	KILSYTH,STRATHCLYDE		
310383	021343.8	56.14	-3.02	336.6	694.8	15.3	0.35D	0.6	KIRKCALDY BAY		
040483	024955.8	55.86	-3.11	330.6	663.7	6.8	0.02C	0.3	DALKEITH,MIDLOTHIAN		
140483	011641.9	53.55	-2.64	357.6	406.5	0.0	0.17C	1.2	WIGAN,MANCHESTER	2+	
150483	160324.4	55.23	-4.80	222.1	596.4	1.6	0.42D	1.4	GIRVAN,STRATHCLYDE		
220483	025018.4	53.60	-2.65	356.9	412.1	1.6	0.22D	1.3	WIGAN,MANCHESTER	2+	
230483	035646.0	55.85	-3.09	331.8	662.2	5.0	0.01C	0.3	DALKEITH,MIDLOTHIAN		
260483	194057.9	53.52	-2.47	368.7	402.3	0.0	0.53D	1.5	WIGAN,MANCHESTER	2+	
270483	154026.0	57.45	-5.17	210.0	844.3	1.8	0.39D	2.2	LOCH MONAR,HIGHLAND		
280483	145517.7	56.85	-4.91	222.7	777.5	5.0	0.55D	1.4	FT.WILLIAM,HIGHLAND		
290483	151933.1	55.35	-3.40	311.1	606.6	6.4	0.16C	1.2	MOFFAT,DUMF&GA		
100583	0120 6.3	56.64	-5.56	181.9	755.2	8.1	0.53D	2.0	STRONTIAN,HIGHLAND		
130583	232111.0	55.87	-3.09	331.7	664.6	2.3	0.11C	0.4	DALKEITH,MIDLOTHIAN		
200583	010343.8	52.13	-2.75	348.5	247.9	11.3	0.06D	0.1	WELLINGTON,HERFD&WOR		
210583	084025.7	57.54	-5.20	208.8	855.1	10.3	0.41D	2.0	KINLOCHEWE,HIGHLAND		
240583	060149.6	51.45	-2.94	334.3	172.7	1.1	0.07C	1.1	SEVERN ESTUARY		
240583	215442.6	53.99	-3.15	324.6	455.7	5.0	0.14C	2.3	OFF FLEETWOOD,LANCS		

Table 1 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
300583	201813.1	50.80	-1.92	405.6	99.9	0.0	0.06D	2.6		BOURNEMOUTH, DORSET	
010683	033630.9	55.86	-3.09	331.7	663.9	8.7	0.00C	0.0		DALKEITH, MIDLOTHIAN	
090683	163954.9	50.58	-5.27	168.2	80.9	4.9	0.04C	1.3		OFF TREVOSE HD. CORNWALL	
100683	141537.7	50.49	-4.82	200.0	69.6	0.0	0.09D	0.8		WADEBRIDGE, CORNWALL	
170683	2351 5.5	55.86	-3.10	331.2	663.5	5.0	0.01C	0.2		DALKEITH, MIDLOTHIAN	
280683	130211.2	52.12	-4.14	253.5	249.0	4.0	0.05D	1.4		LAMPETER, DYFED	
100783	074111.2	55.87	-3.10	331.1	664.2	6.4	0.00C	0.2		DALKEITH, MIDLOTHIAN	
120783	201329.5	55.86	-3.11	330.3	663.9	2.5	0.10C	0.9		ROSEWELL, MIDLOTHIAN	
170783	233226.1	55.01	-3.00	336.2	569.3	1.3	0.25D	1.5		LONGTOWN, DUMF&GA	
220783	181635.5	55.86	-3.11	330.2	663.3	5.7	0.25B	0.7		ROSEWELL, MIDLOTHIAN	
230783	103133.4	52.03	-2.83	342.9	236.9	24.5	0.07C	0.1		HEREFORD, HERFD&WOR	
030883	181145.6	55.87	-3.14	328.5	665.2	8.9	0.08C	-0.3		LOANHEAD, MIDLOTHIAN	
030883	2334 3.2	50.11	-5.17	173.5	28.0	6.1	0.00C	0.5		HELSTON, CORNWALL	
080883	065938.4	57.33	-3.95	282.7	828.0	8.0	0.28D	0.6		TOMATIN, HIGHLAND	
090883	025557.7	55.60	-3.45	308.5	635.6	7.6	0.20C	1.2		BROUGHTON, BORDERS	
090883	1611 6.4	55.86	-3.11	330.3	663.7	6.5	0.04C	0.2		ROSEWELL, MIDLOTHIAN	
100883	152852.4	56.13	-3.61	300.2	694.4	6.1	0.01C	0.8		SALINE, FIFE	
100883	180526.0	54.76	-2.18	388.3	540.7	1.2	0.57D	1.8		ALLENHEADS, DURHAM	
110883	165327.7	55.85	-3.13	329.1	662.7	4.3	0.08B	0.4		ROSEWELL, MIDLOTHIAN	
120883	1600 2.7	56.01	-2.89	344.5	679.9	6.3	0.06B	1.0		ABERLADY, EASTLOTHIAN	
120883	204941.2	55.96	-3.05	334.6	674.8	2.7	0.15D	0.6		MUSSELBURGH, LOTHIAN	
160883	042457.6	55.85	-3.13	329.4	662.7	6.2	0.12B	0.4		ROSEWELL, MIDLOTHIAN	
170883	105437.5	52.77	-3.54	296.1	320.8	2.5	0.12D	1.5		LLANWDDYN, POWYS	
170883	214128.4	56.09	-3.56	303.0	689.3	24.2	0.16B	0.8		OAKLEY, FIFE	
200883	004831.7	51.77	-3.84	273.3	209.4	1.9	0.06C	1.2		GLANAMAN, W. GLAMORGAN	
220883	1553 2.7	56.16	-3.67	296.3	697.3	16.8	0.13B	0.7		DOLLAR, CENTRAL	
230883	103839.1	51.66	-3.05	327.3	196.1	0.7	0.08D	1.1		CWMBRAN, GWENT	
240883	194912.5	55.85	-3.13	329.0	662.6	2.1	0.08B	1.1		ROSEWELL, MIDLOTHIAN	
250883	014116.5	50.03	-5.10	177.8	19.2	1.9	0.01C	0.0		COVERACK, CORNWALL	
250883	220810.8	52.03	-2.69	352.8	236.6	13.2	0.05C	0.9		HEREFORD, HERF&WOR	
310883	152818.7	53.39	-1.80	413.1	388.4	10.0	0.46D	2.2		EDALE, DERBYSHIRE	
010983	053942.9	54.29	-3.19	322.7	488.4	2.7	0.14D	1.8		ULVERSTON, CUMBRIA	
020983	122344.2	56.11	-3.67	296.2	692.4	0.1	0.27C	1.0		CLACKMANNAN, CENTRAL	
020983	192539.0	55.85	-3.13	329.3	662.9	2.5	0.06C	0.4		ROSEWELL, MIDLOTHIAN	
040983	0114 6.2	50.07	-5.05	181.6	23.1	7.4	0.01C	-0.6		ST. KEVERNE, CORNWALL	
050983	094254.4	51.53	-2.06	395.8	181.6	5.0	0.77D	1.6		CHIPPENHAM, WILTSHIRE	
090983	114742.6	53.29	-1.83	411.3	376.8	6.3	0.11D	1.9		BUXTON, DERBYSHIRE	
090983	150136.7	55.85	-3.13	329.4	662.3	0.6	0.07B	0.9		ROSEWELL, MIDLOTHIAN	
150983	143243.9	52.69	-3.90	271.5	311.6	2.8	0.11D	2.5		DOLGELLAU, GWYNEDD	
160983	233558.6	55.85	-3.12	329.6	662.9	4.1	0.09B	0.6		ROSEWELL, MIDLOTHIAN	
190983	1014 7.6	56.41	-3.34	317.5	724.7	5.0	1.00D	0.8		NEW SCONE, TAYSIDE	
200983	090239.0	55.81	-5.79	162.5	663.7	0.0	0.19D	2.1		SOUND OF JURA	
200983	1514 4.0	50.32	-2.72	349.1	46.7	1.8	0.09D	2.1		ENGLISH CHANNEL	
210983	082327.3	56.11	-5.05	210.2	695.4	0.0	0.21D	1.6		DUNOON, STRATHCLYDE	
220983	130850.0	56.69	-3.84	287.5	756.7	0.0	0.13C	0.0		PITLOCHRY, TAYSIDE	
260983	0316 3.1	55.22	-3.52	303.5	592.9	7.1	0.26C	0.7		MOFFAT, DUMF&GA	
260983	221530.3	55.87	-3.10	330.9	664.1	4.3	0.07C	0.0		ROSEWELL, MIDLOTHIAN	
270983	164533.9	50.27	-5.85	125.4	48.0	3.9	0.13D	0.4		NW OF LAND'S END, CORN	
280983	115817.9	54.81	-4.44	243.5	548.9	15.0	0.22D	1.9		WIGTOWN, DUMF&GA	
300983	174327.4	50.32	-5.03	184.5	50.8	20.6	0.02C	0.8		TRURO, CORNWALL	
011083	072010.8	49.61	-5.33	159.6	-27.0	5.0	0.22D	1.7		OFF LIZARD PT. CORNWALL	
101083	1251 6.6	54.98	-2.84	346.6	565.5	2.3	0.42C	1.9		LONGTOWN, CUMBRIA	3+
										FELT HETHERSGILL	



Table 1 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
101083	125333.5	54.97	-2.86	345.1	564.6	0.0	0.03C	1.4		LONGTOWN, CUMBRIA	
101083	2133 9.7	51.66	-3.00	331.1	196.3	0.0	0.14C	1.3		CWMBRAN, GWENT	
121083	013958.9	54.04	-1.57	428.1	460.0	28.9	0.73D	2.2		HARROGATE, N. YORKS	
121083	185324.3	56.12	-3.60	300.4	693.3	5.4	0.29C	0.4		NR. SALINE, FIFE	
131083	105012.9	56.87	-4.25	262.7	777.8	8.7	0.37D	2.2		DALNASPIDAL, TAYSIDE	
131083	185337.1	52.95	-2.14	390.7	339.0	0.0	0.46D	0.9		STOKE ON TRENT, STAFFS	2+
131083	213837.0	55.85	-3.12	329.6	662.9	0.5	0.17B	0.3		ROSEWELL, MIDLOTHIAN	
141083	054947.6	55.86	-3.12	329.7	663.3	1.2	0.15B	0.9		ROSEWELL, MIDLOTHIAN	
141083	1512 8.3	55.33	-3.39	311.9	604.4	0.0	0.02C	0.2		MOFFAT, DUMF&GA	
151083	044140.8	55.86	-3.12	329.9	663.2	5.9	0.09B	0.9		ROSEWELL, MIDLOTHIAN	
161083	0920 9.5	56.29	-3.65	297.6	712.5	0.6	0.12B	0.2		AUCHTERARDER, TAYSIDE	
231083	12 011.1	49.68	-5.94	115.4	-17.2	0.6	0.16D	2.2		SW OF LIZARD PT. CORNWL	
311083	0309 4.0	50.24	-4.77	202.3	42.1	6.5	0.05C	0.8		GORRAN HAVEN, CORNWL	
021183	040335.8	56.14	-3.57	302.2	695.2	0.0	0.05B	0.1		SALINE, FIFE	
131183	020235.7	56.01	-4.23	261.1	681.4	10.2	0.00C	0.9		LENNOXTOWN, ST' CLYDE	
151183	214453.0	55.68	-3.30	318.4	643.7	5.8	0.09C	1.8		NW OF PEEBLES, BORDERS	2+
										FELT PEEBLES, BROUGHTON	
161183	142119.9	49.61	-5.93	116.4	-25.0	19.3	0.12D	1.5		OFF LIZARD PT, CORNWL	
221183	121144.6	50.00	-5.10	178.1	15.8	13.2	0.03C	0.9		COVERACK, CORNWALL	
221183	1903 1.5	50.00	-5.09	178.6	15.9	13.3	0.06C	0.4		COVERACK, CORNWALL	
241183	1826 0.6	50.00	-5.09	178.4	15.9	13.5	0.01C	0.0		COVERACK, CORNWALL	
251183	035158.4	55.85	-3.21	324.1	662.1	0.2	0.06C	0.9		PENICUIK, MIDLOTHIAN	
281183	024613.4	53.56	-2.65	357.1	407.1	6.9	0.30C	2.6		WIGAN, MANCHESTER	
281183	134811.4	55.19	-1.74	416.4	588.7	0.0	0.44D	1.8		ASHINGTON, N' UMBERLAND	
011283	014842.1	55.85	-3.12	330.1	662.9	0.2	0.09B	0.7		ROSEWELL, MIDLOTHIAN	
021283	0503 5.2	55.86	-3.12	329.8	663.1	3.7	0.03C	1.0		ROSEWELL, MIDLOTHIAN	
041283	193317.5	56.12	-5.73	168.0	698.3	6.8	0.51D	2.3		N. OF SOUND OF JURA	
051283	005615.8	51.66	-3.08	325.4	196.2	2.4	0.18D	1.2		CWMBRAN, GWENT	
051283	005630.2	51.67	-2.78	346.3	197.1	19.1	0.67D	0.7		CWMBRAN, GWENT	
051283	202326.6	55.85	-3.15	328.1	662.2	0.1	0.19B	1.0		ROSEWELL, MIDLOTHIAN	
061283	2339 1.7	55.86	-3.12	330.2	663.9	1.6	0.13B	0.5		ROSEWELL, MIDLOTHIAN	
071283	020921.9	50.01	-6.04	110.8	19.9	13.1	0.04D	1.3		OFF LAND'S END, CORNWL	
081283	100527.6	55.85	-3.16	327.6	661.9	1.6	0.09C	1.1		ROSEWELL, MIDLOTHIAN	
081283	124427.2	55.24	-3.45	307.8	594.7	8.0	0.12C	2.3		BEATTOCK, DUMF&GA	3+
										FELT JOHNSTONE BRIDGE	
141283	002634.5	55.86	-3.09	331.6	663.9	7.4	0.02C	1.2		ROSEWELL, MIDLOTHIAN	
161283	022759.3	55.86	-3.12	330.2	663.5	4.5	0.02C	0.4		ROSEWELL, MIDLOTHIAN	
161283	125253.5	51.64	-2.84	342.0	193.8	5.0	1.40D	0.6		CWMBRAN, GWENT	
161283	195134.5	55.93	-3.08	332.7	671.2	0.4	0.27B	1.0		MUSSELBURGH, LOTHIAN	
191283	133419.5	55.86	-3.15	328.2	663.8	4.0	0.07C	0.5		ROSEWELL, MIDLOTHIAN	
201283	050849.6	55.86	-3.12	329.9	663.2	4.4	0.03C	1.0		ROSEWELL, MIDLOTHIAN	
211283	044926.4	55.86	-3.14	328.5	663.5	2.2	0.05C	0.8		ROSEWELL, MIDLOTHIAN	
221283	130133.5	55.85	-3.14	328.5	662.7	2.9	0.15B	0.9		ROSEWELL, MIDLOTHIAN	
221283	133419.1	55.86	-3.12	330.0	663.4	1.7	0.00C	0.5		ROSEWELL, MIDLOTHIAN	2+
231283	030619.8	53.27	-1.60	426.7	375.4	0.5	0.55D	2.0		CHESTERFIELD, DERBY	
241283	015345.5	55.86	-3.14	329.0	663.2	2.0	0.05C	0.8		ROSEWELL, MIDLOTHIAN	
281283	085947.8	55.92	-3.07	332.9	670.6	0.4	0.06B	1.2		MUSSELBURGH, LOTHIAN	
291283	213234.7	56.33	-4.84	224.5	719.1	0.1	0.38D	1.8		TYNDRUM, TAYSIDE	
291283	215146.7	55.86	-3.06	333.5	663.7	0.0	1.48C	1.1		DALKEITH, MIDLOTHIAN	
301283	134327.2	50.11	-5.17	173.1	28.4	5.7	0.01C	0.1		CONSTANTINE, CORNWALL	
301283	154421.1	55.85	-3.12	329.9	662.9	2.6	0.05B	1.1		ROSEWELL, MIDLOTHIAN	
040184	195940.6	51.68	-3.26	312.8	199.3	0.2	0.15C	0.8		GELLIGAER, M GLAMORGAN	
170184	174239.6	56.18	-4.84	223.7	702.1	0.0	0.17D	1.6		NR ARROCHAR, HIGHLAND	

Table 1 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
200184	194022.4	51.70	-3.29	311.0	200.8	17.7	0.06D	0.8	0.8	GELLIGAER, M GLAMORGAN	
200184	194512.6	51.69	-3.33	308.2	199.7	9.9	0.08D	0.8	0.8	GELLIGAER, M GLAMORGAN	
280184	1158 0.1	55.90	-2.69	356.9	667.2	1.4	0.19B	0.8	0.8	LONGYESTER, LOTHIAN	
290184	231714.8	51.37	-3.05	327.0	164.5	7.7	0.20D	1.0	1.0	SEVERN ESTUARY	
300184	121455.4	55.95	-3.07	332.9	673.2	6.7	0.00C	0.9	0.9	MUSSELBURGH, LOTHIAN	
300184	213020.6	55.85	-3.12	329.7	662.9	2.5	0.07C	1.0	1.0	ROSEWELL, LOTHIAN	
070284	153736.8	50.87	-2.06	395.8	108.2	6.0	0.41D	1.6	1.6	WIMBORNE, DORSET	
090284	13 351.1	52.12	-3.18	318.9	247.0	20.7	0.08C	-0.1	0.1	PAINSCASTLE, POWYS	
090284	14 211.5	52.85	-2.15	390.1	328.1	5.0	0.37D	1.3	1.3	WESTON, STAFFORDSHIRE	
100284	75240.0	55.97	-5.37	189.7	680.0	5.0	0.33D	1.4	1.4	LOCH FYNE, STRATHCLYDE	
160284	101546.4	55.10	-3.59	298.5	579.3	3.0	0.12B	2.6	2.6	DUMFRIES, DUM&GA	4
										FELT DUMFRIES, 600 SQ KM	
200284	192449.2	55.86	-3.12	330.0	663.6	2.4	0.06B	1.1	1.1	ROSEWELL, LOTHIAN	2+
										FELT IN ROSEWELL PIT	
210284	174941.9	56.14	-3.57	302.6	695.4	2.3	0.13B	1.6	1.6	BALGONAR, FIFE	
280284	11626.8	55.24	-3.47	306.8	594.4	2.9	0.21C	0.7	0.7	ST ANNS, DUM&GA	
010384	83418.9	52.11	-2.46	368.6	245.7	14.3	0.19C	1.4	1.4	FROMES HILL, HER&WORC	
060384	122921.8	52.03	-2.54	362.8	236.9	6.6	0.03C	0.9	0.9	RUSHALL, HEREFORD&WORC	
090384	172934.2	53.02	-3.85	275.6	348.9	5.4	0.26C	1.8	1.8	GLANABER TERR, GWYNEDD	
120384	1641 6.0	57.44	-4.17	269.5	840.4	7.0	0.01C	0.7	0.7	SE OF INVERNESS, HIGH	
150384	52815.7	55.23	-3.33	315.1	593.3	3.6	0.01C	0.2	0.2	JOHNST' BRIDGE, DUMF&GA	
150384	52820.1	55.24	-3.29	318.0	594.2	2.8	0.00C	0.0	0.0	JOHNST' BRIDGE, DUMF&GA	
220384	12 956.5	53.30	-0.95	470.1	379.3	25.8	0.56D	3.2	3.2	EAST RETFORD, NOTTS	3+
										FELT ARNOLD AREA, NOTTS	
280384	04624.1	50.11	-5.17	173.2	28.5	7.4	0.01C	-0.6	0.6	CONSTANTINE, CORNWALL	
030484	142712.3	50.65	-2.44	368.9	83.1	9.5	0.20C	3.3	3.3	NR WEYMOUTH, DORSET	
100484	62549.7	57.39	-5.39	196.4	838.7	2.7	0.20D	0.1	0.1	ATTADALE FRST, HIGHLAND	
110484	02049.1	57.40	-5.39	196.4	839.0	3.4	0.29C	1.1	1.1	ATTADALE FRST, HIGHLAND	
130484	1 757.7	57.85	-5.43	196.6	890.0	12.4	0.23C	1.8	1.8	NR GRUINARD BAY, HIGH	
150484	210534.8	52.41	-3.24	315.8	279.5	9.8	0.36C	3.2	3.2	FELINDRE, POWYS	5
										FELT WIDELY IN POWYS AREA	
190484	225713.6	56.84	-4.97	218.8	776.4	6.8	0.45D	1.8	1.8	LEANACHAN FRST, HIGH	
200484	032 3.3	57.72	-5.48	192.8	875.6	9.1	0.22C	1.6	1.6	LOCH MAREE, HIGHLAND	
200484	32034.0	57.69	-5.44	195.1	872.2	10.2	0.25C	1.4	1.4	LOCH MAREE, HIGHLAND	
200484	215948.7	51.37	-3.27	311.9	164.5	0.6	0.11D	1.5	1.5	OFF BARRY, S GLAMORGAN	
290484	125028.6	54.12	-2.39	374.8	469.2	5.0	0.26D	1.4	1.4	CLAPHAM, LANCASHIRE	
300484	143844.8	54.40	-2.66	357.1	500.8	9.9	0.31D	2.2	2.2	WHINFELL BEACON, CUM	
110584	64835.6	55.24	-3.44	308.2	594.9	2.8	0.01C	-0.2	0.2	J'ST' BRIDGE, DUMF&GA	
120584	32746.5	55.23	-3.43	308.8	593.9	0.0	0.24C	0.3	0.3	J'ST' BRIDGE, DUMF&GA	
130584	184526.5	53.87	-3.44	305.1	442.3	1.2	0.06C	1.8	1.8	OFF FLEETWOOD, LANCS.	
170584	2313 0.5	57.71	-5.45	194.2	874.1	5.0	0.26C	2.1	2.1	LOCH MAREE, HIGHLAND	
200584	95838.4	54.14	-1.69	420.5	471.4	0.0	0.33D	1.4	1.4	W OF RIPON, N YORKS	
260584	5 755.0	55.03	-2.85	345.4	571.4	8.0	0.45C	1.0	1.0	LONGTOWN, CUMBRIA	
300584	25358.7	52.94	-1.13	458.2	338.0	15.0	0.43D	3.1	3.1	NOTTINGHAM	5
										FELT AREA 13000 SQ KM	
040684	141659.5	53.79	-0.90	472.4	433.2	10.4	0.12D	3.0	3.0	SELBY, N. YORKS	
150684	223821.0	51.74	-1.71	420.0	204.8	1.4	0.26D	1.9	1.9	LECHLADE, GLOUCS.	
200684	14551.4	56.25	-3.73	292.6	707.6	4.8	0.08B	1.4	1.4	GLENDEVON, CENTRAL	
220684	133823.9	52.94	-3.92	271.1	340.3	6.0	0.46D	1.8	1.8	FFESTINIOG, GWYNEDD	
010784	195427.2	57.75	-5.45	194.5	878.1	1.9	0.23D	2.3	2.3	LOCH BROOM, HIGHLAND	
090784	11 510.3	53.14	-3.93	271.1	361.9	0.0	0.38D	1.7	1.7	W OF LLANRWST, GWYNEDD	
100784	35853.9	53.10	-2.76	349.1	356.4	8.3	0.22C	1.3	1.3	CHESTER, CHESHIRE	
100784	142815.5	53.03	-3.29	313.6	348.9	0.0	0.36D	1.1	1.1	S OF RUTHIN, CLWYD	

Table 1 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
100784	17 511.9	53.38	-3.43	304.8	387.7	4.4	0.26D	1.6		PRESTATYN,CLWYD	
120784	55733.8	52.12	-2.95	334.8	247.3	18.4	0.09B	0.7		HEREFORD,HERF&WOR	
160784	81234.8	52.90	-2.19	387.5	333.3	0.3	0.20D	2.4		STONE,STAFFORDSHIRE	
160784	142614.0	50.47	-1.40	442.7	63.4	0.0	0.32D	2.3		S OF ISLE OF WIGHT	
170784	11 042.6	53.05	-1.91	406.0	350.0	2.0	0.20D	1.9		IPSTONES,STAFFORDSHIRE	
170784	12 421.1	52.99	-1.99	400.4	343.9	0.1	0.19D	1.6		CHEADLE,STAFFORDSHIRE	
170784	131510.5	53.14	-1.86	409.1	359.9	0.0	0.44D	1.6		WARSTOW,STAFFS	
180784	35629.4	51.26	-3.34	306.8	152.1	8.0	0.20D	1.6		BRISTOL CHANNEL	
180784	11 441.7	53.22	-3.95	270.1	371.4	0.0	0.25D	1.7		E OF BANGOR,GWYNEDD	
190784	065613.6	52.98	-4.43	237.1	345.1	18.0	0.24C	5.4		LLEYN PENIN,NW WALES FELT WALES,IRELAND,ETC	6
190784	0706 2.1	52.96	-4.25	249.1	342.8	20.0	1.20D	1.8		LLEYN PENIN,NW WALES FELT GWYNEDD	3+
190784	0708 7.4	53.00	-4.22	251.0	347.4	20.0	1.60D	2.4		LLEYN PENIN,NW WALES FELT GWYNEDD	4+
190784	0917 2.3	52.98	-4.22	250.9	344.3	20.0	1.50D	2.0		LLEYN PENIN,NW WALES FELT GWYNEDD	3+
190784	0942 8.4	52.97	-4.16	254.9	343.5	20.0	2.49D	2.9		LLEYN PENIN,NW WALES FELT GWYNEDD	4+
190784	205318.8	52.96	-4.22	251.1	343.2	20.0	1.78D	2.5		LLEYN PENIN,NW WALES FELT GWYNEDD	4+
200784	080430.3	53.01	-4.22	250.8	347.8	20.0	1.21D	1.6		LLEYN PENIN,NW WALES FELT GWYNEDD	3
200784	152613.1	52.97	-4.23	250.3	343.5	20.0	1.58D	2.5		LLEYN PENIN,NW WALES FELT GWYNEDD	4+
210784	034544.7	53.01	-4.15	255.4	347.8	20.0	2.62D	2.0		LLEYN PENIN,NW WALES FELT GWYNEDD	4
210784	1355 8.3	53.00	-4.18	254.1	346.5	20.0	2.40D	2.3		LLEYN PENIN,NW WALES FELT GWYNEDD	4+
230784	082927.4	52.93	-4.42	237.4	340.3	15.4	0.38C	2.8		LLEYN PENIN,NW WALES FELT GWYNEDD	4+
250784	030354.2	52.95	-4.26	248.1	341.8	24.2	0.82C	1.3		LLEYN PENIN,NW WALES FELT GWYNEDD	2+
250784	060834.2	52.97	-4.39	239.2	343.8	19.1	0.36B	2.1		LLEYN PENIN,NW WALES FELT GWYNEDD	3+
270784	125610.8	52.95	-4.29	246.2	342.1	18.2	0.09D	2.3		LLEYN PENIN,NW WALES FELT GWYNEDD,HARLECH	4
270784	212938.5	53.00	-4.45	235.4	348.0	18.9	0.27B	2.0		LLEYN PENIN,NW WALES FELT GWYNEDD	4
290784	0048 2.3	52.99	-4.47	234.0	347.0	21.2	0.08D	2.2		LLEYN PENIN,NW WALES FELT GWYNEDD	3+
290784	201757.3	52.98	-4.44	236.0	344.8	21.2	0.24B	4.0		LLEYN PENIN,NW WALES FELT GWYNEDD,MERSEY,DUBLN	4+
290784	204522.1	52.96	-4.38	240.2	343.4	20.2	0.08B	2.5		LLEYN PENIN,NW WALES FELT GWYNEDD	4+
300784	012436.3	52.94	-4.41	237.8	340.5	21.3	0.15C	1.8		LLEYN PENIN,NW WALES FELT GWYNEDD	2+
300784	081226.8	52.97	-4.38	240.4	344.2	22.8	0.10B	1.5		LLEYN PENIN,NW WALES FELT GWYNEDD	2+
300784	151552.1	52.97	-4.38	240.2	343.7	20.0	0.10B	2.8		LLEYN PENIN,NW WALES FELT GWYNEDD	3+
310784	090121.0	51.63	-2.89	338.6	192.7	0.1	0.11D	0.3		CWMBRAN,GWENT	
310784	1429 7.2	53.34	-1.85	409.8	382.1	3.6	0.35D	1.9		WHALEY BRIDGE,DERBY	

Table 1 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
310784	192846.9	52.97	-4.40	238.8	344.2	23.5	0.05B	1.6	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
010884	030743.0	52.97	-4.38	239.9	343.8	23.3	0.09B	1.5	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
020884	11150.3	59.76	1.79			5.4	0.31C	2.8	NORTH SEA		
040884	034411.8	52.97	-4.40	239.1	344.4	24.1	0.04B	2.7	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD		
040884	063533.9	52.97	-4.41	238.5	344.5	22.0	0.08B	1.7	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
040884	070913.2	52.97	-4.39	239.5	343.8	23.2	0.10B	2.3	LLEYN PENIN,NW WALES	3+	
									FELT GWYNEDD		
050884	211621.3	52.97	-4.38	240.0	343.9	22.6	0.10B	1.8	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
060884	072220.7	52.95	-4.33	243.6	341.7	24.7	0.15B	3.6	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD		
060884	124325.3	52.95	-4.35	242.2	341.6	21.9	0.20B	1.6	LLEYN PENIN,NW WALES	3+	
									FELT GWYNEDD		
120884	003142.6	52.96	-4.38	239.9	343.5	21.3	0.07A	2.0	LLEYN PENIN,NW WALES	4	
									FELT GWYNEDD		
120884	040630.2	52.97	-4.38	240.5	343.9	23.0	0.09A	2.3	LLEYN PENIN,NW WALES	4	
									FELT GWYNEDD		
120884	060910.0	52.97	-4.38	240.1	344.0	23.3	0.08A	1.1	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
170884	41421.1	54.93	-2.72	354.0	559.4	1.2	0.46C	0.2	BRAMPTON,CUMBRIA		
180884	113727.7	52.96	-4.38	239.9	342.8	21.0	0.10A	4.3	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD,MERSEY,DUBLN		
180884	1320	4.3	56.57	-5.38	192.4	746.8	1.0	0.38D	1.2	N OF CONNEL,HIGHLAND	
190884	122852.7	51.61	-2.93	335.9	190.2	5.0	0.48D	1.5	NEWPORT,GWENT		
200884	22320.8	52.12	-2.68	353.4	247.3	5.9	0.09D	0.3	HEREFORD,HERF&WOR		
200884	25653.3	52.74	-2.42	371.9	315.6	2.0	0.33D	1.0	TELFORD,SHROPSHIRE		
220884	182915.9	52.97	-4.38	240.4	343.6	22.1	0.02B	1.6	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
220884	195035.7	52.97	-4.40	238.9	344.4	19.6	0.13C	2.2	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
230884	9 938.4	53.00	-1.20	453.5	345.1	6.5	0.44D	2.2	NOTTINGHAM		
240884	223844.7	52.96	-4.38	240.4	343.4	21.1	0.08B	1.8	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
250884	223949.0	55.73	-3.07	332.9	649.2	5.0	0.24B	0.6	MOORFOOT HILLS,BORDERS		
260884	1819	6.3	51.85	-2.87	340.3	217.2	3.2	0.09D	0.8	NW OF MONMOUTH,GWENT	
260884	201742.4	52.28	-3.27	313.1	265.8	9.6	0.10C	0.6	LLAN'DOD WELLS,DYFED		
010984	84759.5	51.62	-2.91	336.9	191.9	0.2	0.24D	0.8	NEWPORT,GWENT		
030984	0 917.7	55.24	-3.50	304.8	594.5	1.6	0.08D	0.0	NR ST ANN`S,DUM&GA		
070984	04829.1	52.26	-2.51	365.5	262.8	2.7	0.35D	0.8	WOLFERLOW,HER&WORC		
080984	040949.7	52.97	-4.39	239.4	343.4	24.0	0.04B	1.3	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
110984	013316.3	52.97	-4.40	239.1	343.9	22.3	0.07B	1.4	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
110984	155818.7	52.97	-4.38	240.2	343.6	23.9	0.06A	1.3	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
160984	9 551.2	58.08	0.90			15.0	2.09D	2.3	NORTH SEA		
190984	2017	0.5	52.71	-1.16	456.7	312.9	1.1	0.10D	1.8	LOUGHBOROUGH,LEICS	
220984	23 142.3	53.18	-2.63	358.1	364.5	5.0	0.18D	1.4	NR WINSFORD,CHESHIRE		
240984	03054.7	55.12	-3.57	299.7	581.7	2.3	0.21C	0.7	DUMFRIES,DUMF&GA		

Table 1 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
270984	02258.4	54.99	-1.27	446.7	566.4	5.0	0.33D	1.0		OFF SUNDERLAND, TYN&WR	
270984	1533	0.6	56.95	-5.92	161.6	791.5	2.0	0.30D	2.2	MALLAIG, HIGHLAND	
280984	104123.8	57.72	-5.58	186.9	875.7	9.6	0.28D	1.8		LOCH MAREE, HIGHLAND	
300984	443	6.6	56.59	-6.07	150.0	751.1	0.8	0.28D	1.5	S OF TOBERMORY, MULL	
021084	155831.1	52.96	-4.40	238.6	343.6	21.4	0.06A	1.4		LLEYN PENIN, NW WALES FELT GWYNEDD	2+
031084	714	0.4	52.62	-1.73	418.0	303.1	0.6	0.10D	1.7	NR TAMWORTH, STAFFS	
081084	204736.2	52.96	-4.39	239.8	342.9	21.5	0.06A	1.1		LLEYN PENIN, NW WALES FELT GWYNEDD	2+
091084	63152.8	51.56	-2.94	335.0	184.8	2.0	0.03C	0.9		NEWPORT, GWENT	
131084	132719.5	53.74	-2.38	374.8	427.0	14.0	0.17C	3.2		ACCRINGTON, LANCs FELT BURNLEY, DARWEN, BURY	4+
161084	1126	7.0	54.42	-2.90	341.9	503.3	7.6	0.22C	1.1	TROUTBECK, CUMBRIA	
161084	1235	5.5	52.96	-4.39	239.7	343.0	23.3	0.05A	1.3	LLEYN PENIN, NW WALES FELT GWYNEDD	2+
191084	3 6	6.3	54.73	-3.02	334.3	537.6	7.4	0.06C	1.0	HESKET NEWMARKET, CUM	
191084	132543.6	56.24	-3.61	299.9	706.2	5.2	0.35C	1.6		OCHIL HILLS, TAYSIDE	
231084	23258.5	56.41	-3.59	302.0	725.0	5.2	0.05B	1.3		METHVEN, TAYSIDE	
261084	54119.1	57.02	-5.78	170.5	798.6	11.5	0.21D	1.7		NR MALLAIG, HIGHLAND	
011184	45154.1	57.33	-5.35	198.7	831.8	2.0	0.58D	0.9		ATTADALE FRST, HIGHLAND	
031184	73159.2	57.02	-5.77	171.5	798.8	0.2	0.07C	1.2		MALLAIG, HIGHLAND	
061184	2152	2.4	50.29	-6.23	99.0	52.2	2.6	0.13D	1.5	NE OF SCILLY ISLES	
101184	74510.1	51.60	-2.87	339.6	189.6	1.5	0.33D	0.8		NEWPORT, GWENT	
111184	232151.0	52.96	-4.39	239.5	343.1	24.6	0.06A	2.4		LLEYN PENIN, NW WALES FELT GWYNEDD	3+
261184	7 143.3	50.22	-4.54	218.7	38.7	8.1	0.10C	1.0		DODMAN PT, CORNWALL	
261184	054526.7	52.96	-4.38	239.9	343.4	23.5	0.07A	2.0		LLEYN PENIN, NW WALES FELT GWYNEDD	2+
281184	317	7.7	56.99	-5.83	167.2	795.3	4.6	0.18D	2.0	MALLAIG, HIGHLAND	
021284	121328.3	52.97	-4.39	239.6	344.3	23.3	0.06A	1.1		LLEYN PENIN, NW WALES FELT GWYNEDD	2+
041284	818	2.1	53.84	-4.11	261.3	440.1	10.7	0.23C	1.8	IRISH SEA	
041284	9 830.5	53.82	-4.23	253.3	437.7	9.5	0.09D	1.2		IRISH SEA	
071284	1421	3.0	55.87	-3.09	331.8	664.2	6.6	0.01C	0.8	POLTON, MIDLOTHIAN	
091284	45730.1	57.89	-5.48	194.1	894.1	11.7	0.27C	2.4		GRUINARD BAY, HIGHLAND	
141284	151132.7	50.11	-5.16	173.8	28.2	6.0	0.04C	0.6		CONSTANTINE, CORNWALL	
161284	42757.6	56.66	-5.72	172.3	758.5	0.6	0.29C	1.8		S OF L. SUNART, HIGHLAND	
181284	124435.8	55.64	-1.80	412.6	639.0	4.4	0.41D	1.8		HOLY ISL. N'UMBERLAND	
201284	03111.0	50.37	-5.20	172.3	56.6	6.8	0.03C	0.7		PERRANPORTH, CORNWALL	



Table 2 : British earthquakes 1982, 1983, 1984, listed in order of decreasing latitude

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
020884	11150.3	59.76	1.79			5.4	0.31C		2.8	NORTH SEA	
250982	22 521.7	59.63	1.27			15.0	1.68D		1.3	NORTH SEA	
040183	024019.0	58.4	-1.2							NORTH SEA	
160984	9 551.2	58.08	0.90			15.0	2.09D		2.3	NORTH SEA	
091284	45730.1	57.89	-5.48	194.1	894.1	11.7	0.27C		2.4	GRUINARD BAY,HIGHLAND	
130484	1 757.7	57.85	-5.43	196.6	890.0	12.4	0.23C		1.8	NR GRUINARD BAY,HIGH	
010784	195427.2	57.75	-5.45	194.5	878.1	1.9	0.23D		2.3	LOCH BROOM,HIGHLAND	
200484	032 3.3	57.72	-5.48	192.8	875.6	9.1	0.22C		1.6	LOCH MAREE,HIGHLAND	
280984	104123.8	57.72	-5.58	186.9	875.7	9.6	0.28D		1.8	LOCH MAREE,HIGHLAND	
170584	2313 0.5	57.71	-5.45	194.2	874.1	5.0	0.26C		2.1	LOCH MAREE,HIGHLAND	
200484	32034.0	57.69	-5.44	195.1	872.2	10.2	0.25C		1.4	LOCH MAREE,HIGHLAND	
210583	084025.7	57.54	-5.20	208.8	855.1	10.3	0.41D		2.0	KINLOCHEWE,HIGHLAND	
270483	154026.0	57.45	-5.17	210.0	844.3	1.8	0.39D		2.2	LOCH MONAR,HIGHLAND	
120384	1641 6.0	57.44	-4.17	269.5	840.4	7.0	0.01C		0.7	SE OF INVERNESS,HIGH	
090382	31937.9	57.43	-5.35	198.7	842.2	3.5	0.10D		1.4	NR STRATHCARRON,HIGHL	
221282	044516.2	57.40	-5.37	197.4	839.6	1.5	0.05D		1.4	ATTADALE FOREST,HIGH	
110484	02049.1	57.40	-5.39	196.4	839.0	3.4	0.29C		1.1	ATTADALE FRST,HIGHLAND	
100484	62549.7	57.39	-5.39	196.4	838.7	2.7	0.20D		0.1	ATTADALE FRST,HIGHLAND	
060782	62032.2	57.37	-5.73	175.8	836.8	3.1	0.21D		1.3	NR L CARRON,HIGHLAND	
080883	065938.4	57.33	-3.95	282.7	828.0	8.0	0.28D		0.6	TOMATIN,HIGHLAND	
011184	45154.1	57.33	-5.35	198.7	831.8	2.0	0.58D		0.9	ATTADALE FRST,HIGHLAND	
160982	60744.7	57.30	-5.01	218.4	827.7	0.1	0.38D		2.0	W OF CANNICH,HIGHLAND	2+
080282	1819 8.5	57.25	-5.73	175.1	823.8	0.4	0.21D		0.8	EASTERN SKYE,HIGHLAND	
080282	64020.4	57.24	-5.68	178.0	822.3	2.0	0.40D		2.2	EASTERN SKYE,HIGHLAND	
070682	12 0 7.2	57.23	-3.79	292.0	816.7	0.5	0.39D		0.8	AVIEMORE,HIGHLAND	
271082	235733.6	57.23	-5.46	191.0	820.6	2.5	0.43C		3.0	RATAGAN FOREST,HIGH	4+
281082	0 8 2.8	57.23	-5.48	189.7	820.4	5.0	0.14D		1.5	RATAGAN FOREST,HIGH	
080282	85059.2	57.21	-5.81	170.2	820.0	3.0	0.45D		1.3	EASTERN SKYE,HIGHLAND	
020482	141423.6	57.15	-5.30	200.3	810.9	3.7	0.45D		1.5	GLENSHIEL,HIGHLAND	
070282	162336.2	57.02	-5.12	210.4	796.7	2.4	0.07D		0.9	LOCH ARKAIG,HIGHLAND	
261084	54119.1	57.02	-5.78	170.5	798.6	11.5	0.21D		1.7	NR MALLAIG,HIGHLAND	
031184	73159.2	57.02	-5.77	171.5	798.8	0.2	0.07C		1.2	MALLAIG,HIGHLAND	
070282	1714 7.5	57.01	-5.25	202.5	796.3	10.7	0.07D		0.6	LOCH ARKAIG,HIGHLAND	
281184	317 7.7	56.99	-5.83	167.2	795.3	4.6	0.18D		2.0	MALLAIG,HIGHLAND	
270984	1533 0.6	56.95	-5.92	161.6	791.5	2.0	0.30D		2.2	MALLAIG,HIGHLAND	
250283	225953.4	56.87	-4.98	218.2	779.5	2.9	0.36D		2.4	FT.WILLIAM,HIGHLAND	3+
131083	105012.9	56.87	-4.25	262.7	777.8	8.7	0.37D		2.2	DALNASPIDAL,TAYSIDE	
280483	145517.7	56.85	-4.91	222.7	777.5	5.0	0.55D		1.4	FT.WILLIAM,HIGHLAND	
190484	225713.6	56.84	-4.97	218.8	776.4	6.8	0.45D		1.8	LEANACHAN FRST,HIGH	
200882	1219 8.9	56.81	-4.87	224.9	772.6	0.0	0.17C		1.5	BEN NEVIS,HIGHLAND	
190383	102150.7	56.76	-3.48	309.5	764.1	0.4	0.13D		1.1	PITLOCHRY,TAYSIDE	
220983	130850.0	56.69	-3.84	287.5	756.7	0.0	0.13C		0.0	PITLOCHRY,TAYSIDE	
161284	42757.6	56.66	-5.72	172.3	758.5	0.6	0.29C		1.8	S OF L.SUNART,HIGHLAND	
100583	0120 6.3	56.64	-5.56	181.9	755.2	8.1	0.53D		2.0	STRONTIAN,HIGHLAND	
270183	160320.6	56.62	-2.64	360.5	748.2	3.5	0.17D		1.6	FORFAR,TAYSIDE	
300984	443 6.6	56.59	-6.07	150.0	751.1	0.8	0.28D		1.5	S OF TOBERMORY,MULL	
180884	1320 4.3	56.57	-5.38	192.4	746.8	1.0	0.38D		1.2	N OF CONNEL,HIGHLAND	
100682	20 939.9	56.47	-4.14	268.4	733.4	3.8	0.20C		0.5	S OF L TAY,TAYSIDE	
310182	162525.9	56.42	-4.36	254.2	728.2	7.3	0.64D		1.7	SW OF KILLIN,TAYSIDE	
190983	1014 7.6	56.41	-3.34	317.5	724.7	5.0	1.00D		0.8	NEW SCONE,TAYSIDE	
231084	23258.5	56.41	-3.59	302.0	725.0	5.2	0.05B		1.3	METHVEN,TAYSIDE	
291283	213234.7	56.33	-4.84	224.5	719.1	0.1	0.38D		1.8	TYNDRUM,TAYSIDE	
161083	0920 9.5	56.29	-3.65	297.6	712.5	0.6	0.12B		0.2	AUCHTERARDER,TAYSIDE	

Table 2 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
170582	112938.5	56.25	-3.16	328.2	707.0	1.0	0.92D	0.7		MUIRHEAD, FIFE	
200684	14551.4	56.25	-3.73	292.6	707.6	4.8	0.08B	1.4		GLENDEVON, CENTRAL	
191084	132543.6	56.24	-3.61	299.9	706.2	5.2	0.35C	1.6		OCHIL HILLS, TAYSIDE	
140182	113924.7	56.22	-3.26	321.9	703.4	1.5	0.12C	0.4		AUCHMUIR BR, FIFE	
200182	115551.9	56.19	-5.21	200.9	704.4	8.7	0.62D	1.5		LOCH LEACANN, ARGYLL	
060782	1533 3.1	56.19	-5.46	185.5	705.1	5.0	0.59D	1.4		SOUTH LOCH AWE, STRATH	
170184	174239.6	56.18	-4.84	223.7	702.1	0.0	0.17D	1.6		NR ARROCHAR, HIGHLAND	
220883	1553 2.7	56.16	-3.67	296.3	697.3	16.8	0.13B	0.7		DOLLAR, CENTRAL	
070182	105428.6	56.15	-3.61	300.0	695.9	7.3	0.06C	0.5		BLACK DEVON, FIFE	
140182	4 049.2	56.14	-3.59	301.0	695.0	2.7	0.06C	1.3		BLACK DEVON, FIFE	
020282	155847.5	56.14	-3.60	300.5	695.0	12.8	0.06C	0.4		BLACK DEVON, FIFE	
100282	101440.7	56.14	-3.70	294.4	695.1	8.7	0.09C	0.5		BLACK DEVON, FIFE	
050482	154144.7	56.14	-3.61	299.8	694.9	0.4	0.11B	0.5		BLACK DEVON, FIFE	
100682	155541.8	56.14	-3.63	298.6	695.4	1.0	0.27C	0.6		BLACK DEVON, FIFE	
310383	021343.8	56.14	-3.02	336.6	694.8	15.3	0.35D	0.6		KIRKCALDY BAY	
021183	040335.8	56.14	-3.57	302.2	695.2	0.0	0.05B	0.1		SALINE, FIFE	
210284	174941.9	56.14	-3.57	302.6	695.4	2.3	0.13B	1.6		BALGONAR, FIFE	
070182	1537 9.6	56.13	-3.71	293.9	694.5	0.9	0.11C	0.5		BLACK DEVON, FIFE	
270182	153332.4	56.13	-3.62	299.5	694.0	5.8	0.17C	0.7		SALINE, FIFE	
030282	16 023.8	56.13	-3.57	302.1	694.1	0.5	0.20C	0.2		BALGONAR, FIFE	
150282	114232.2	56.13	-3.63	298.5	694.2	2.7	0.21C	0.8		BLACK DEVON, FIFE	
140782	154640.2	56.13	-3.63	298.5	694.2	0.9	0.05C	0.3		BLACK DEVON, FIFE	
100883	152852.4	56.13	-3.61	300.2	694.4	6.1	0.01C	0.8		SALINE, FIFE	
130182	114755.7	56.12	-3.64	298.0	693.5	1.0	0.04B	0.7		BLACK DEVON, FIFE	
130182	153643.7	56.12	-3.66	296.9	692.9	1.0	0.15D	0.5		BLACK DEVON, FIFE	
140182	153429.5	56.12	-3.61	299.8	692.6	1.2	0.23C	0.9		NR BLAIRHALL, FIFE	
070482	154338.3	56.12	-3.64	298.1	693.6	4.5	0.10C	0.7		BLACK DEVON, FIFE	
121083	185324.3	56.12	-3.60	300.4	693.3	5.4	0.29C	0.4		NR. SALINE, FIFE	
041283	193317.5	56.12	-5.73	168.0	698.3	6.8	0.51D	2.3		N. OF SOUND OF JURA	
060182	114121.5	56.11	-3.63	298.6	691.7	0.2	0.13C	0.7		BLACK DEVON, FIFE	
060182	154530.6	56.11	-3.65	297.3	691.7	0.5	0.25C	0.8		BLACK DEVON, FIFE	
140482	151939.8	56.11	-3.68	295.6	692.0	5.0	0.23C	0.9		BLACK DEVON, FIFE	
110682	102643.2	56.11	-3.65	297.3	691.7	0.7	0.04B	1.2		BLACK DEVON, FIFE	
020983	122344.2	56.11	-3.67	296.2	692.4	0.1	0.27C	1.0		CLACKMANNAN, CENTRAL	
210983	082327.3	56.11	-5.05	210.2	695.4	0.0	0.21D	1.6		DUNOON, STRATHCLYDE	
190182	153353.0	56.10	-3.66	297.0	691.2	1.0	0.40C	1.1		BLACK DEVON, FIFE	
200182	1056 4.5	56.10	-3.60	300.3	690.7	3.3	0.07C	0.6		BLAIRHALL, FIFE	
060282	1043 2.9	56.10	-3.58	301.6	690.5	8.5	0.11C	0.3		BLAIRHALL, FIFE	
120482	143554.5	56.10	-3.66	296.9	691.2	1.1	0.18C	1.1		BLACK DEVON, FIFE	
140682	155955.7	56.10	-3.64	298.0	691.3	3.1	0.28C	0.7		BLACK DEVON, FIFE	
191282	123727.5	56.09	-4.20	263.4	691.2	5.0	1.34D	0.8		NEAR KIPPEN, CENTRAL	
170883	214128.4	56.09	-3.56	303.0	689.3	24.2	0.16B	0.8		OAKLEY, FIFE	
150482	231321.9	56.05	-3.69	294.6	685.9	5.0	0.11B	1.5		KINCARDINE, FIFE	
140282	161853.2	56.04	-4.99	213.8	687.1	0.8	0.17D	1.2		LOCH ECK, STRATHCLYDE	
090383	104314.5	56.02	-5.87	159.1	687.9	9.5	0.23D	1.8		LOCHGILPHEAD, ST'CLYDE	
120883	1600 2.7	56.01	-2.89	344.5	679.9	6.3	0.06B	1.0		ABERLADY, EASTLOTHIAN	
131183	020235.7	56.01	-4.23	261.1	681.4	10.2	0.00C	0.9		LENNOXTOWN, ST'CLYDE	
250383	162529.0	55.99	-4.06	271.4	679.7	8.8	0.10D	0.9		KILSYTH, STRATHCLYDE	
100284	75240.0	55.97	-5.37	189.7	680.0	5.0	0.33D	1.4		LOCH FYNE, STRATHCLYDE	
120883	204941.2	55.96	-3.05	334.6	674.8	2.7	0.15D	0.6		MUSSELBURGH, LOTHIAN	
080383	193642.6	55.95	-5.65	172.2	679.4	5.6	0.14C	2.4		LOCHGILPHEAD, ST'CLYDE	3+
300184	121455.4	55.95	-3.07	332.9	673.2	6.7	0.00C	0.9		MUSSELBURGH, LOTHIAN	
050282	201354.3	55.94	-3.09	331.9	672.8	1.5	0.02C	0.4		EDINBURGH	



Table 2 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
100682	18 858.1	55.94	-3.10	331.4	672.2	2.3	0.09C	0.6		EDINBURGH	
080383	203444.5	55.94	-5.69	169.5	677.9	6.0	0.40D	2.0		LOCHGILPHEAD, ST'CLYDE	2+
151282	224131.6	55.93	-3.19	325.8	670.9	9.0	1.64D	0.7		DANDERHALL, LOTHIAN	
161283	195134.5	55.93	-3.08	332.7	671.2	0.4	0.27B	1.0		MUSSELBURGH, LOTHIAN	
050282	201135.2	55.92	-3.10	331.1	670.0	4.7	0.01C	0.0		DANDERHALL, LOTHIAN	
281283	085947.8	55.92	-3.07	332.9	670.6	0.4	0.06B	1.2		MUSSELBURGH, LOTHIAN	
080282	175813.8	55.91	-3.10	331.5	668.9	1.5	0.03C	0.5		DANDERHALL, LOTHIAN	
130282	194426.7	55.91	-3.11	330.5	668.6	7.3	0.00C	0.4		DANDERHALL, LOTHIAN	
070182	03735.0	55.90	-3.06	333.4	667.4	6.0	0.01C	-0.6		LEADBURN, LOTHIAN	
100282	1044 7.4	55.90	-3.09	331.7	667.6	8.7	0.17C	0.6		BONNYRIGG, LOTHIAN	
280184	1158 0.1	55.90	-2.69	356.9	667.2	1.4	0.19B	0.8		LONGYESTER, LOTHIAN	
090182	194831.5	55.88	-3.06	333.7	666.2	2.5	0.07C	-0.4		BONNYRIGG, LOTHIAN	
310182	231936.8	55.87	-3.10	331.5	665.0	5.9	0.02B	-0.1		BONNYRIGG, LOTHIAN	
040282	191916.8	55.87	-3.22	323.5	664.1	10.1	0.10C	0.1		PENICUIK, LOTHIAN	
130882	72838.5	55.87	-3.12	329.9	664.5	0.1	0.04B	1.0		POLTON, LOTHIAN	
130583	232111.0	55.87	-3.09	331.7	664.6	2.3	0.11C	0.4		DALKEITH, MIDLOTHIAN	
100783	074111.2	55.87	-3.10	331.1	664.2	6.4	0.00C	0.2		DALKEITH, MIDLOTHIAN	
030883	181145.6	55.87	-3.14	328.5	665.2	8.9	0.08C	-0.3		LOANHEAD, MIDLOTHIAN	
260983	221530.3	55.87	-3.10	330.9	664.1	4.3	0.07C	0.0		ROSEWELL, MIDLOTHIAN	
071284	1421 3.0	55.87	-3.09	331.8	664.2	6.6	0.01C	0.8		POLTON, MIDLOTHIAN	
070182	202718.4	55.86	-3.12	329.7	663.4	10.7	0.03C	0.1		ROSEWELL, LOTHIAN	
110182	191352.6	55.86	-3.08	332.5	663.7	7.0	0.03C	0.1		GOREBRIDGE, LOTHIAN	
240482	24559.9	55.86	-3.14	328.6	663.1	0.3	0.10B	1.6		ROSLIN, LOTHIAN	2+
										FELT ROSLIN	
040483	024955.8	55.86	-3.11	330.6	663.7	6.8	0.02C	0.3		DALKEITH, MIDLOTHIAN	
010683	033630.9	55.86	-3.09	331.7	663.9	8.7	0.00C	0.0		DALKEITH, MIDLOTHIAN	
170683	2351 5.5	55.86	-3.10	331.2	663.5	5.0	0.01C	0.2		DALKEITH, MIDLOTHIAN	
120783	201329.5	55.86	-3.11	330.3	663.9	2.5	0.10C	0.9		ROSEWELL, MIDLOTHIAN	
220783	181635.5	55.86	-3.11	330.2	663.3	5.7	0.25B	0.7		ROSEWELL, MIDLOTHIAN	
090883	1611 6.4	55.86	-3.11	330.3	663.7	6.5	0.04C	0.2		ROSEWELL, MIDLOTHIAN	
141083	054947.6	55.86	-3.12	329.7	663.3	1.2	0.15B	0.9		ROSEWELL, MIDLOTHIAN	
151083	044140.8	55.86	-3.12	329.9	663.2	5.9	0.09B	0.9		ROSEWELL, MIDLOTHIAN	
021283	0503 5.2	55.86	-3.12	329.8	663.1	3.7	0.03C	1.0		ROSEWELL, MIDLOTHIAN	
061283	2339 1.7	55.86	-3.12	330.2	663.9	1.6	0.13B	0.5		ROSEWELL, MIDLOTHIAN	
141283	002634.5	55.86	-3.09	331.6	663.9	7.4	0.02C	1.2		ROSEWELL, MIDLOTHIAN	
161283	022759.3	55.86	-3.12	330.2	663.5	4.5	0.02C	0.4		ROSEWELL, MIDLOTHIAN	
191283	133419.5	55.86	-3.15	328.2	663.8	4.0	0.07C	0.5		ROSEWELL, MIDLOTHIAN	
201283	050849.6	55.86	-3.12	329.9	663.2	4.4	0.03C	1.0		ROSEWELL, MIDLOTHIAN	
211283	044926.4	55.86	-3.14	328.5	663.5	2.2	0.05C	0.8		ROSEWELL, MIDLOTHIAN	
221283	133419.1	55.86	-3.12	330.0	663.4	1.7	0.00C	0.5		ROSEWELL, MIDLOTHIAN	2+
241283	015345.5	55.86	-3.14	329.0	663.2	2.0	0.05C	0.8		ROSEWELL, MIDLOTHIAN	
291283	215146.7	55.86	-3.06	333.5	663.7	0.0	1.48C	1.1		DALKEITH, MIDLOTHIAN	
200284	192449.2	55.86	-3.12	330.0	663.6	2.4	0.06B	1.1		ROSEWELL, LOTHIAN	2+
										FELT IN ROSEWELL PIT	
030482	35941.1	55.85	-3.14	328.7	662.9	0.6	0.09B	0.8		ROSEWELL, LOTHIAN	
240882	1 157.7	55.85	-3.14	328.9	662.8	0.6	0.04B	0.6		ROSEWELL, LOTHIAN	
170982	20 129.0	55.85	-3.12	330.1	662.5	0.4	0.04B	0.9		ROSEWELL, LOTHIAN	
081082	55637.4	55.85	-3.12	329.6	661.8	2.5	0.08C	0.8		ROSEWELL, LOTHIAN	
111082	175142.5	55.85	-3.12	330.1	662.4	0.7	0.07C	0.6		ROSEWELL, LOTHIAN	
141082	62623.3	55.85	-3.14	328.9	662.1	0.7	0.13C	1.4		ROSEWELL, LOTHIAN	2+
										FELT ROSEWELL	
211082	234927.4	55.85	-3.12	330.1	662.5	0.4	0.08B	1.1		ROSEWELL, LOTHIAN	
301082	15 118.7	55.85	-3.12	330.0	662.6	0.5	0.08B	1.1		ROSEWELL, LOTHIAN	

Table 2 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
061182	52414.3	55.85	-3.12	329.9	662.5	1.2	0.09D	1.0		ROSEWELL,LOTHIAN	
161182	55315.5	55.85	-3.13	329.4	662.6	1.5	0.11B	0.8		ROSEWELL,LOTHIAN	
081282	220219.2	55.85	-3.13	329.3	662.4	0.3	0.09B	0.6		ROSEWELL,LOTHIAN	
230483	035646.0	55.85	-3.09	331.8	662.2	5.0	0.01C	0.3		DALKEITH,MIDLOTHIAN	
110883	165327.7	55.85	-3.13	329.1	662.7	4.3	0.08B	0.4		ROSEWELL,MIDLOTHIAN	
160883	042457.6	55.85	-3.13	329.4	662.7	6.2	0.12B	0.4		ROSEWELL,MIDLOTHIAN	
240883	194912.5	55.85	-3.13	329.0	662.6	2.1	0.08B	1.1		ROSEWELL,MIDLOTHIAN	
020983	192539.0	55.85	-3.13	329.3	662.9	2.5	0.06C	0.4		ROSEWELL,MIDLOTHIAN	
090983	150136.7	55.85	-3.13	329.4	662.3	0.6	0.07B	0.9		ROSEWELL,MIDLOTHIAN	
160983	233558.6	55.85	-3.12	329.6	662.9	4.1	0.09B	0.6		ROSEWELL,MIDLOTHIAN	
131083	213837.0	55.85	-3.12	329.6	662.9	0.5	0.17B	0.3		ROSEWELL,MIDLOTHIAN	
251183	035158.4	55.85	-3.21	324.1	662.1	0.2	0.06C	0.9		PENICUIK,MIDLOTHIAN	
011283	014842.1	55.85	-3.12	330.1	662.9	0.2	0.09B	0.7		ROSEWELL,MIDLOTHIAN	
051283	202326.6	55.85	-3.15	328.1	662.2	0.1	0.19B	1.0		ROSEWELL,MIDLOTHIAN	
081283	100527.6	55.85	-3.16	327.6	661.9	1.6	0.09C	1.1		ROSEWELL,MIDLOTHIAN	
221283	130133.5	55.85	-3.14	328.5	662.7	2.9	0.15B	0.9		ROSEWELL,MIDLOTHIAN	
301283	154421.1	55.85	-3.12	329.9	662.9	2.6	0.05B	1.1		ROSEWELL,MIDLOTHIAN	
300184	213020.6	55.85	-3.12	329.7	662.9	2.5	0.07C	1.0		ROSEWELL,LOTHIAN	
200182	742 4.6	55.84	-3.12	329.5	661.5	0.3	0.10B	0.8		NR ROSEWELL,LOTHIAN	
030383	0211 1.3	55.84	-3.11	330.5	661.5	10.2	0.46C	0.5		DALKEITH,MIDLOTHIAN	
200983	090239.0	55.81	-5.79	162.5	663.7	0.0	0.19D	2.1		SOUND OF JURA	
070882	14157.0	55.80	-3.13	329.4	657.1	13.4	0.02C	0.2		E OF PENICUIK,LOTHIAN	
250884	223949.0	55.73	-3.07	332.9	649.2	5.0	0.24B	0.6		MOORFOOT HILLS,BORDERS	
221182	14 741.4	55.70	-3.29	319.1	645.6	7.6	0.12D	0.9		NR PEEBLES,BORDERS	
151183	214453.0	55.68	-3.30	318.4	643.7	5.8	0.09C	1.8		NW OF PEEBLES,BORDERS 2+ FELT PEEBLES,BROUGHTON	
250282	14 5 4.2	55.64	-3.18	325.8	639.2	2.3	0.16C	1.3		PEEBLES,BORDERS	
181284	124435.8	55.64	-1.80	412.6	639.0	4.4	0.41D	1.8		HOLY ISL.N'UMBERLAND	
190382	22656.5	55.61	-1.89	407.0	635.5	0.5	0.09D	1.8		HOLBURN, N.UMBERLAND	
090883	025557.7	55.60	-3.45	308.5	635.6	7.6	0.20C	1.2		BROUGHTON,BORDERS	
080582	1432 8.8	55.55	-1.82	411.6	628.5	1.0	0.31D	1.8		WARENFORD,N'UMBERLAND	
120182	125723.7	55.52	-5.56	175.5	630.6	2.1	0.02C	2.0		CAMPBELTOWN,ST`CLYDE	
290982	163736.2	55.44	-1.60	425.1	616.2	0.1	0.40D	1.7		LONGHOUGHTON,N'UMBER	
130182	9 3 5.4	55.43	-5.48	179.7	621.1	0.1	0.37D	1.5		KILBRANNAN SOUND	
290483	151933.1	55.35	-3.40	311.1	606.6	6.4	0.16C	1.2		MOFFAT,DUMF&GA	
200182	93020.5	55.34	-5.57	173.4	610.7	2.3	0.29D	1.9		MACHARIOCH,KINTYRE	
141083	1512 8.3	55.33	-3.39	311.9	604.4	0.0	0.02C	0.2		MOFFAT,DUMF&GA	
110383	185344.2	55.26	-3.41	310.4	596.6	4.4	0.16C	2.3		MOFFAT,DUMF&GA	3+
280183	182531.0	55.25	-3.40	310.9	596.0	15.0	0.09D	1.4		LOCKERBIE,DUMF&GA	
200283	022957.4	55.24	-3.48	306.2	595.0	9.3	0.13D	1.5		MOFFAT,DUMF&GA	
081283	124427.2	55.24	-3.45	307.8	594.7	8.0	0.12C	2.3		BEATTOCK,DUMF&GA FELT JOHNSTONE BRIDGE	3+
280284	11626.8	55.24	-3.47	306.8	594.4	2.9	0.21C	0.7		ST ANNS,DUM&GA	
150384	52820.1	55.24	-3.29	318.0	594.2	2.8	0.00C	0.0		JOHNST'BRIDGE,DUMF&GA	
110584	64835.6	55.24	-3.44	308.2	594.9	2.8	0.01C	-0.2		J'ST'BRIDGE,DUMF&GA	
030984	0 917.7	55.24	-3.50	304.8	594.5	1.6	0.08D	0.0		NR ST ANN`S,DUM&GA	
220482	14 134.0	55.23	-2.84	346.4	593.5	1.1	0.16D	1.0		NE OF LANGHOLM,DUM&GA	
150483	160324.4	55.23	-4.80	222.1	596.4	1.6	0.42D	1.4		GIRVAN,STRATHCLYDE	
150384	52815.7	55.23	-3.33	315.1	593.3	3.6	0.01C	0.2		JOHNST'BRIDGE,DUMF&GA	
120584	32746.5	55.23	-3.43	308.8	593.9	0.0	0.24C	0.3		J'ST'BRIDGE,DUMF&GA	
260983	0316 3.1	55.22	-3.52	303.5	592.9	7.1	0.26C	0.7		MOFFAT,DUMF&GA	
281183	134811.4	55.19	-1.74	416.4	588.7	0.0	0.44D	1.8		ASHINGTON,N'UMBERLAND	
050482	14 134.4	55.14	-2.79	349.7	582.9	5.0	0.27D	1.6		KERSHOPE FOREST,CUM	

Table 2 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int	
100582	1334	4.8	55.14	-2.81	348.6	583.2	1.0	0.19D	1.4	KERSHOPE FOREST,CUM		
270482	52348.6	55.13	-4.27	255.4	584.2		9.5	0.35D	0.8	LOCH DUNGEON,DUM&GA		
240984	03054.7	55.12	-3.57	299.7	581.7		2.3	0.21C	0.7	DUMFRIES,DUMF&GA		
280482	141629.4	55.11	-2.93	340.7	579.9		4.1	0.35D	1.4	CANONBIE,DUMFRIES&GAL		
120682	201853.5	55.11	-2.92	341.2	579.9		1.0	0.20D	0.9	SE OF LANGHOLM,DUM&GA		
160284	101546.4	55.10	-3.59	298.5	579.3		3.0	0.12B	2.6	DUMFRIES,DUM&GA	4	
										FELT DUMFRIES, 600 SQ KM		
260584	5 755.0	55.03	-2.85	345.4	571.4		8.0	0.45C	1.0	LONGTOWN,CUMBRIA		
280582	32442.1	55.01	-2.90	342.7	568.6		0.5	0.12D	1.0	E OF LONGTOWN,CUMBRIA		
170783	233226.1	55.01	-3.00	336.2	569.3		1.3	0.25D	1.5	LONGTOWN,DUMF&GA		
270984	02258.4	54.99	-1.27	446.7	566.4		5.0	0.33D	1.0	OFF SUNDERLAND,TYN&WR		
101083	1251	6.6	54.98	-2.84	346.6	565.5		2.3	0.42C	1.9	LONGTOWN,CUMBRIA	3+
										FELT HETHERSGILL		
101083	125333.5	54.97	-2.86	345.1	564.6		0.0	0.03C	1.4	LONGTOWN,CUMBRIA		
170884	41421.1	54.93	-2.72	354.0	559.4		1.2	0.46C	0.2	BRAMPTON,CUMBRIA		
150383	204417.9	54.84	-1.54	429.8	549.6		7.1	0.28D	1.2	CHESTER LE STREET,DUR		
280983	115817.9	54.81	-4.44	243.5	548.9		15.0	0.22D	1.9	WIGTOWN,DUMF&GA		
100883	180526.0	54.76	-2.18	388.3	540.7		1.2	0.57D	1.8	ALLENHEADS,DURHAM		
191084	3 6 6.3	54.73	-3.02	334.3	537.6		7.4	0.06C	1.0	HESKET NEWMARKET,CUM		
031182	123239.7	54.68	-2.25	384.1	531.6		5.0	0.19D	1.4	LANGDON BECK,DURHAM		
130682	22013.6	54.50	-2.78	349.6	511.8		1.0	0.35D	1.3	HAWESWATER RESR,CUM		
161084	1126	7.0	54.42	-2.90	341.9	503.3		7.6	0.22C	1.1	TROUTBECK,CUMBRIA	
260482	142945.9	54.41	-2.55	364.2	502.3		5.0	0.24D	1.9	SE OF TEBAY,CUMBRIA		
300484	143844.8	54.40	-2.66	357.1	500.8		9.9	0.31D	2.2	WHINFELL BEACON,CUM		
010983	053942.9	54.29	-3.19	322.7	488.4		2.7	0.14D	1.8	ULVERSTON,CUMBRIA		
020383	130733.8	54.28	-1.93	404.8	487.4		0.4	0.44C	1.6	WENSLEYDALE,N.YORKS		
200584	95838.4	54.14	-1.69	420.5	471.4		0.0	0.33D	1.4	W OF RIPON,N YORKS		
290484	125028.6	54.12	-2.39	374.8	469.2		5.0	0.26D	1.4	CLAPHAM,LANCASHIRE		
240382	163934.1	54.10	0.21	544.5	469.5		0.0	0.47D	2.1	OFF FLAMBOURGH HEAD		
121083	013958.9	54.04	-1.57	428.1	460.0		28.9	0.73D	2.2	HARROGATE,N.YORKS		
240583	215442.6	53.99	-3.15	324.6	455.7		5.0	0.14C	2.3	OFF FLEETWOOD,LANCS		
130584	184526.5	53.87	-3.44	305.1	442.3		1.2	0.06C	1.8	OFF FLEETWOOD,LANCS.		
041284	818	2.1	53.84	-4.11	261.3	440.1		10.7	0.23C	1.8	IRISH SEA	
041284	9 830.5	53.82	-4.23	253.3	437.7		9.5	0.09D	1.2	IRISH SEA		
040684	141659.5	53.79	-0.90	472.4	433.2		10.4	0.12D	3.0	SELBY,N.YORKS		
131084	132719.5	53.74	-2.38	374.8	427.0		14.0	0.17C	3.2	ACCRINGTON,LANCS	4+	
										FELT BURNLEY, DARWEN, BURY		
020782	33831.3	53.64	-1.02	464.7	416.8		0.5	0.21D	1.9	SYKEHOUSE,SOUTH YORK		
220483	025018.4	53.60	-2.65	356.9	412.1		1.6	0.22D	1.3	WIGAN,MANCHESTER	2+	
281183	024613.4	53.56	-2.65	357.1	407.1		6.9	0.30C	2.6	WIGAN,MANCHESTER		
110582	104430.2	53.55	0.99	598.0	410.1		5.0	0.22D	2.3	OFF MABLETHORPE,LINCS		
140483	011641.9	53.55	-2.64	357.6	406.5		0.0	0.17C	1.2	WIGAN,MANCHESTER	2+	
260483	194057.9	53.52	-2.47	368.7	402.3		0.0	0.53D	1.5	WIGAN,MANCHESTER	2+	
310883	152818.7	53.39	-1.80	413.1	388.4		10.0	0.46D	2.2	EDALE,DERBYSHIRE		
100784	17 511.9	53.38	-3.43	304.8	387.7		4.4	0.26D	1.6	PRESTATYN,CLWYD		
310784	1429	7.2	53.34	-1.85	409.8	382.1		3.6	0.35D	1.9	WHALEY BRIDGE,DERBY	
220384	12 956.5	53.30	-0.95	470.1	379.3		25.8	0.56D	3.2	EAST RETFORD,NOTTS	3+	
										FELT ARNOLD AREA,NOTTS		
090983	114742.6	53.29	-1.83	411.3	376.8		6.3	0.11D	1.9	BUXTON,DERBYSHIRE		
231283	030619.8	53.27	-1.60	426.7	375.4		0.5	0.55D	2.0	CHESTERFIELD,DERBY		
171182	161437.1	53.23	-1.72	418.7	370.3		5.0	0.37D	1.6	BUXTON,DERBYSHIRE		
180784	11 441.7	53.22	-3.95	270.1	371.4		0.0	0.25D	1.7	E OF BANGOR,GWYNEDD		

Table 2 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
020482	105158.3	53.20	-1.85	410.2	367.1	0.0	0.23C	1.6	EARL STERNDALE,DERBY		
220984	23 142.3	53.18	-2.63	358.1	364.5	5.0	0.18D	1.4	NR WINSFORD,CHESHIRE		
140582	21038.5	53.17	-0.94	470.5	363.7	5.0	0.48D	1.4	KNEESALL,NOTTS		
160282	153835.3	53.16	-2.13	391.4	362.4	0.0	0.12C	2.4	NR CONGLETON,CHESHIRE		
020482	204033.5	53.15	-1.00	467.2	362.5	5.0	0.81D	1.7	EAKRING,NOTTS		
090784	11 510.3	53.14	-3.93	271.1	361.9	0.0	0.38D	1.7	W OF LLANRWST,GWYNEDD		
170784	131510.5	53.14	-1.86	409.1	359.9	0.0	0.44D	1.6	WARSTOW,STAFFS		
020282	21 935.5	53.10	-1.03	465.0	356.4	5.0	0.86D	1.8	FARNSFIELD,NOTTS		
030382	164927.0	53.10	-1.02	465.5	356.8	9.3	0.59D	2.2	FARNSFIELD,NOTTS		
100784	35853.9	53.10	-2.76	349.1	356.4	8.3	0.22C	1.3	CHESTER,CHESHIRE		
130382	55838.0	53.07	-1.06	463.2	352.9	5.0	0.25D	1.7	OXTON,NOTTINGHAMSHIRE		
090482	1436 4.3	53.06	-2.22	385.5	351.5	0.0	0.16C	2.7	STOKE-ON-TRENT	2+	
170784	11 042.6	53.05	-1.91	406.0	350.0	2.0	0.20D	1.9	IPSTONES,STAFFORDSHIRE		
100784	142815.5	53.03	-3.29	313.6	348.9	0.0	0.36D	1.1	S OF RUTHIN,CLWYD		
090384	172934.2	53.02	-3.85	275.6	348.9	5.4	0.26C	1.8	GLANABER TERR,GWYNEDD		
200784	080430.3	53.01	-4.22	250.8	347.8	20.0	1.21D	1.6	LLEYN PENIN,NW WALES	3	
									FELT GWYNEDD		
210784	034544.7	53.01	-4.15	255.4	347.8	20.0	2.62D	2.0	LLEYN PENIN,NW WALES	4	
									FELT GWYNEDD		
190784	0708 7.4	53.00	-4.22	251.0	347.4	20.0	1.60D	2.4	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD		
210784	1355 8.3	53.00	-4.18	254.1	346.5	20.0	2.40D	2.3	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD		
270784	212938.5	53.00	-4.45	235.4	348.0	18.9	0.27B	2.0	LLEYN PENIN,NW WALES	4	
									FELT GWYNEDD		
230884	9 938.4	53.00	-1.20	453.5	345.1	6.5	0.44D	2.2	NOTTINGHAM		
160383	042115.1	52.99	-0.98	468.8	344.1	5.0	0.64D	1.7	NOTTINGHAM	2+	
									FELT WOODBOROUGH		
170784	12 421.1	52.99	-1.99	400.4	343.9	0.1	0.19D	1.6	CHEADLE,STAFFORDSHIRE		
290784	0048 2.3	52.99	-4.47	234.0	347.0	21.2	0.08D	2.2	LLEYN PENIN,NW WALES	3+	
									FELT GWYNEDD		
190784	065613.6	52.98	-4.43	237.1	345.1	18.0	0.24C	5.4	LLEYN PENIN,NW WALES	6	
									FELT WALES,IRELAND,ETC		
190784	0917 2.3	52.98	-4.22	250.9	344.3	20.0	1.50D	2.0	LLEYN PENIN,NW WALES	3+	
									FELT GWYNEDD		
290784	201757.3	52.98	-4.44	236.0	344.8	21.2	0.24B	4.0	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD,MERSEY,DUBLN		
190784	0942 8.4	52.97	-4.16	254.9	343.5	20.0	2.49D	2.9	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD		
200784	152613.1	52.97	-4.23	250.3	343.5	20.0	1.58D	2.5	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD		
250784	060834.2	52.97	-4.39	239.2	343.8	19.1	0.36B	2.1	LLEYN PENIN,NW WALES	3+	
									FELT GWYNEDD		
300784	081226.8	52.97	-4.38	240.4	344.2	22.8	0.10B	1.5	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
300784	151552.1	52.97	-4.38	240.2	343.7	20.0	0.10B	2.8	LLEYN PENIN,NW WALES	3+	
									FELT GWYNEDD		
310784	192846.9	52.97	-4.40	238.8	344.2	23.5	0.05B	1.6	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
010884	030743.0	52.97	-4.38	239.9	343.8	23.3	0.09B	1.5	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
040884	034411.8	52.97	-4.40	239.1	344.4	24.1	0.04B	2.7	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD		

Table 2 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
040884	063533.9	52.97	-4.41	238.5	344.5	22.0	0.08B	1.7	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
040884	070913.2	52.97	-4.39	239.5	343.8	23.2	0.10B	2.3	LLEYN PENIN,NW WALES	3+	
									FELT GWYNEDD		
050884	211621.3	52.97	-4.38	240.0	343.9	22.6	0.10B	1.8	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
120884	040630.2	52.97	-4.38	240.5	343.9	23.0	0.09A	2.3	LLEYN PENIN,NW WALES	4	
									FELT GWYNEDD		
120884	060910.0	52.97	-4.38	240.1	344.0	23.3	0.08A	1.1	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
220884	182915.9	52.97	-4.38	240.4	343.6	22.1	0.02B	1.6	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
220884	195035.7	52.97	-4.40	238.9	344.4	19.6	0.13C	2.2	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
080984	040949.7	52.97	-4.39	239.4	343.4	24.0	0.04B	1.3	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
110984	013316.3	52.97	-4.40	239.1	343.9	22.3	0.07B	1.4	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
110984	155818.7	52.97	-4.38	240.2	343.6	23.9	0.06A	1.3	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
021284	121328.3	52.97	-4.39	239.6	344.3	23.3	0.06A	1.1	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
090882	1125 6.4	52.96	-3.81	278.7	342.4	0.2	0.28D	3.1	NR FFESTINIOG,GWYNEDD	3+	
									FELT BLAENAU FFESTNG AREA		
190784	0706 2.1	52.96	-4.25	249.1	342.8	20.0	1.20D	1.8	LLEYN PENIN,NW WALES	3+	
									FELT GWYNEDD		
190784	205318.8	52.96	-4.22	251.1	343.2	20.0	1.78D	2.5	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD		
290784	204522.1	52.96	-4.38	240.2	343.4	20.2	0.08B	2.5	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD		
120884	003142.6	52.96	-4.38	239.9	343.5	21.3	0.07A	2.0	LLEYN PENIN,NW WALES	4	
									FELT GWYNEDD		
180884	113727.7	52.96	-4.38	239.9	342.8	21.0	0.10A	4.3	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD,MERSEY,DUBLN		
240884	223844.7	52.96	-4.38	240.4	343.4	21.1	0.08B	1.8	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
021084	155831.1	52.96	-4.40	238.6	343.6	21.4	0.06A	1.4	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
081084	204736.2	52.96	-4.39	239.8	342.9	21.5	0.06A	1.1	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
161084	1235 5.5	52.96	-4.39	239.7	343.0	23.3	0.05A	1.3	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
111184	232151.0	52.96	-4.39	239.5	343.1	24.6	0.06A	2.4	LLEYN PENIN,NW WALES	3+	
									FELT GWYNEDD		
261184	054526.7	52.96	-4.38	239.9	343.4	23.5	0.07A	2.0	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
131083	185337.1	52.95	-2.14	390.7	339.0	0.0	0.46D	0.9	STOKE ON TRENT,STAFFS	2+	
250784	030354.2	52.95	-4.26	248.1	341.8	24.2	0.82C	1.3	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
270784	125610.8	52.95	-4.29	246.2	342.1	18.2	0.09D	2.3	LLEYN PENIN,NW WALES	4	
									FELT GWYNEDD,HARLECH		
060884	072220.7	52.95	-4.33	243.6	341.7	24.7	0.15B	3.6	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD		

Table 2 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
060884	124325.3	52.95	-4.35	242.2	341.6	21.9	0.20B	1.6	LLEYN PENIN,NW WALES	3+	
									FELT GWYNEDD		
300584	25358.7	52.94	-1.13	458.2	338.0	15.0	0.43D	3.1	NOTTINGHAM	5	
									FELT AREA 13000 SQ KM		
220684	133823.9	52.94	-3.92	271.1	340.3	6.0	0.46D	1.8	FFESTINIOG,GWYNEDD		
300784	012436.3	52.94	-4.41	237.8	340.5	21.3	0.15C	1.8	LLEYN PENIN,NW WALES	2+	
									FELT GWYNEDD		
230784	082927.4	52.93	-4.42	237.4	340.3	15.4	0.38C	2.8	LLEYN PENIN,NW WALES	4+	
									FELT GWYNEDD		
160784	81234.8	52.90	-2.19	387.5	333.3	0.3	0.20D	2.4	STONE,STAFFORDSHIRE		
090284	14 211.5	52.85	-2.15	390.1	328.1	5.0	0.37D	1.3	WESTON,STAFFORDSHIRE		
150282	114213.9	52.80	-2.06	396.0	322.8	11.5	1.27D	1.3	STAFFORD,STAFFS		
170883	105437.5	52.77	-3.54	296.1	320.8	2.5	0.12D	1.5	LLANWDDYN,POWYS		
200884	25653.3	52.74	-2.42	371.9	315.6	2.0	0.33D	1.0	TELFORD,SHROPSHIRE		
190984	2017 0.5	52.71	-1.16	456.7	312.9	1.1	0.10D	1.8	LOUGHBOROUGH,LEICS		
110383	0726 1.6	52.69	-1.01	467.2	310.8	4.0	0.47D	2.3	LEICESTER		
150983	143243.9	52.69	-3.90	271.5	311.6	2.8	0.11D	2.5	DOLGELLAU,GWYNEDD		
031084	714 0.4	52.62	-1.73	418.0	303.1	0.6	0.10D	1.7	NR TAMWORTH,STAFFS		
150484	210534.8	52.41	-3.24	315.8	279.5	9.8	0.36C	3.2	FELINDRE,POWYS	5	
									FELT WIDELY IN POWYS AREA		
260884	201742.4	52.28	-3.27	313.1	265.8	9.6	0.10C	0.6	LLAN'DOD WELLS,DYFED		
070984	04829.1	52.26	-2.51	365.5	262.8	2.7	0.35D	0.8	WOLFERLOW,HER&WORC		
200583	010343.8	52.13	-2.75	348.5	247.9	11.3	0.06D	0.1	WELLINGTON,HERFD&WOR		
280683	130211.2	52.12	-4.14	253.5	249.0	4.0	0.05D	1.4	LAMPETER,DYFED		
090284	13 351.1	52.12	-3.18	318.9	247.0	20.7	0.08C-0.1		PAINSCASTLE,POWYS		
120784	55733.8	52.12	-2.95	334.8	247.3	18.4	0.09B	0.7	HEREFORD,HERF&WOR		
200884	22320.8	52.12	-2.68	353.4	247.3	5.9	0.09D	0.3	HEREFORD,HERF&WOR		
010384	83418.9	52.11	-2.46	368.6	245.7	14.3	0.19C	1.4	FROMES HILL,HER&WORC		
230783	103133.4	52.03	-2.83	342.9	236.9	24.5	0.07C	0.1	HEREFORD,HERFD&WOR		
250883	220810.8	52.03	-2.69	352.8	236.6	13.2	0.05C	0.9	HEREFORD,HERF&WOR		
060384	122921.8	52.03	-2.54	362.8	236.9	6.6	0.03C	0.9	RUSHALL,HEREFORD&WORC		
040482	214346.3	51.99	-3.47	298.9	233.8	5.0	0.37D	2.6	PONT-FAEN,POWYS		
260884	1819 6.3	51.85	-2.87	340.3	217.2	3.2	0.09D	0.8	NW OF MONMOUTH,GWENT		
200883	004831.7	51.77	-3.84	273.3	209.4	1.9	0.06C	1.2	GLANAMAN,W.GLAMORGAN		
150684	223821.0	51.74	-1.71	420.0	204.8	1.4	0.26D	1.9	LECHLADE,GLOUCS.		
200184	194022.4	51.70	-3.29	311.0	200.8	17.7	0.06D	0.8	GELLIGAER,M GLAMORGAN		
200184	194512.6	51.69	-3.33	308.2	199.7	9.9	0.08D	0.8	GELLIGAER,M GLAMORGAN		
040184	195940.6	51.68	-3.26	312.8	199.3	0.2	0.15C	0.8	GELLIGAER,M GLAMORGAN		
051283	005630.2	51.67	-2.78	346.3	197.1	19.1	0.67D	0.7	CWMBRAN,GWENT		
230883	103839.1	51.66	-3.05	327.3	196.1	0.7	0.08D	1.1	CWMBRAN,GWENT		
101083	2133 9.7	51.66	-3.00	331.1	196.3	0.0	0.14C	1.3	CWMBRAN,GWENT		
051283	005615.8	51.66	-3.08	325.4	196.2	2.4	0.18D	1.2	CWMBRAN,GWENT		
140582	74628.7	51.64	-2.73	349.4	193.9	20.0	0.07C	0.8	E OF CHEPSTOW,GWENT		
161283	125253.5	51.64	-2.84	342.0	193.8	5.0	1.40D	0.6	CWMBRAN,GWENT		
310784	090121.0	51.63	-2.89	338.6	192.7	0.1	0.11D	0.3	CWMBRAN,GWENT		
010984	84759.5	51.62	-2.91	336.9	191.9	0.2	0.24D	0.8	NEWPORT,GWENT		
190884	122852.7	51.61	-2.93	335.9	190.2	5.0	0.48D	1.5	NEWPORT,GWENT		
101184	74510.1	51.60	-2.87	339.6	189.6	1.5	0.33D	0.8	NEWPORT,GWENT		
091084	63152.8	51.56	-2.94	335.0	184.8	2.0	0.03C	0.9	NEWPORT,GWENT		
050983	094254.4	51.53	-2.06	395.8	181.6	5.0	0.77D	1.6	CHIPPENHAM,WILTSHIRE		
240583	060149.6	51.45	-2.94	334.3	172.7	1.1	0.07C	1.1	SEVERN ESTUARY		
290184	231714.8	51.37	-3.05	327.0	164.5	7.7	0.20D	1.0	SEVERN ESTUARY		

Table 2 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
200484	215948.7	51.37	-3.27	311.9	164.5	0.6	0.11D	1.5	OFF BARRY,S	GLAMORGAN	
180784	35629.4	51.26	-3.34	306.8	152.1	8.0	0.20D	1.6	BRISTOL CHANNEL		
190782	133352.2	51.18	-1.06	466.0	143.2	1.4	0.09D	3.0	NR BASINGSTOKE,HANTS		4+
310882	152729.4	51.07	-3.97	262.0	132.6	5.0	0.52D	1.1	NR BARNSTAPLE,DEVON		
070284	153736.8	50.87	-2.06	395.8	108.2	6.0	0.41D	1.6	WIMBORNE,DORSET		
300583	201813.1	50.80	-1.92	405.6	99.9	0.0	0.06D	2.6	BOURNEMOUTH,DORSET		
030484	142712.3	50.65	-2.44	368.9	83.1	9.5	0.20C	3.3	NR WEYMOUTH,DORSET		
070383	033357.9	50.59	-4.29	237.7	78.9	0.0	0.30C	0.8	LAUNCESTON,CORNWALL		
090683	163954.9	50.58	-5.27	168.2	80.9	4.9	0.04C	1.3	OFF TREVOSE HD.CORNWL		
301282	0346 5.7	50.52	-4.62	214.5	72.4	4.9	0.10C	1.0	NE BODMIN,CORNWALL		
100683	141537.7	50.49	-4.82	200.0	69.6	0.0	0.09D	0.8	WADEBRIDGE,CORNWALL		
160784	142614.0	50.47	-1.40	442.7	63.4	0.0	0.32D	2.3	S OF ISLE OF WIGHT		
211182	141153.6	50.37	-5.24	169.4	57.5	7.7	0.03D	0.6	OFF PERRANPORTH,CORN		
201284	03111.0	50.37	-5.20	172.3	56.6	6.8	0.03C	0.7	PERRANPORTH,CORNWALL		
111282	230154.3	50.33	-4.97	188.5	51.8	2.6	0.05D	0.0	NR LADCOCK,CORNWALL		
200983	1514 4.0	50.32	-2.72	349.1	46.7	1.8	0.09D	2.1	ENGLISH CHANNEL		
300983	174327.4	50.32	-5.03	184.5	50.8	20.6	0.02C	0.8	TRURO,CORNWALL		
061184	2152 2.4	50.29	-6.23	99.0	52.2	2.6	0.13D	1.5	NE OF SCILLY ISLES		
270983	164533.9	50.27	-5.85	125.4	48.0	3.9	0.13D	0.4	NW OF LAND'S END,CORN		
240182	181538.1	50.26	-4.91	192.4	43.9	13.4	0.02C	0.7	TREGONY,CORNWALL		
240182	181642.5	50.26	-4.91	192.3	43.9	14.1	0.00C	-0.5	TREGONY,CORNWALL		
311083	0309 4.0	50.24	-4.77	202.3	42.1	6.5	0.05C	0.8	GORRAN HAVEN,CORNWL		
261184	7 143.3	50.22	-4.54	218.7	38.7	8.1	0.10C	1.0	DODMAN PT,CORNWALL		
180382	165824.4	50.17	-3.61	285.0	30.8	0.5	0.08C	2.1	OFF START POINT,CORN		
260183	172023.6	50.17	-4.51	220.6	32.8	7.6	0.20D	1.0	S OF POLPERRO,CORNWL		
070182	182213.8	50.14	-5.14	175.4	31.3	7.1	0.14D	0.5	NR FALMOUTH,CORNWALL		
301182	111721.9	50.12	-5.03	183.4	28.9	3.4	0.02C	-0.1	FALMOUTH BAY,CORNWALL		
030883	2334 3.2	50.11	-5.17	173.5	28.0	6.1	0.00C	0.5	HELSTON,CORNWALL		
301283	134327.2	50.11	-5.17	173.1	28.4	5.7	0.01C	0.1	CONSTANTINE,CORNWALL		
280384	04624.1	50.11	-5.17	173.2	28.5	7.4	0.01C	-0.6	CONSTANTINE,CORNWALL		
141284	151132.7	50.11	-5.16	173.8	28.2	6.0	0.04C	0.6	CONSTANTINE,CORNWALL		
040983	0114 6.2	50.07	-5.05	181.6	23.1	7.4	0.01C	-0.6	ST.KEVERNE,CORNWALL		
250883	014116.5	50.03	-5.10	177.8	19.2	1.9	0.01C	0.0	COVERACK,CORNWALL		
071283	020921.9	50.01	-6.04	110.8	19.9	13.1	0.04D	1.3	OFF LAND'S END,CORNWL		
221183	121144.6	50.00	-5.10	178.1	15.8	13.2	0.03C	0.9	COVERACK,CORNWALL		
221183	1903 1.5	50.00	-5.09	178.6	15.9	13.3	0.06C	0.4	COVERACK,CORNWALL		
241183	1826 0.6	50.00	-5.09	178.4	15.9	13.5	0.01C	0.0	COVERACK,CORNWALL		
010283	200721.0	49.76	-5.70	133.8	-9.0	5.0	0.04D	1.4	SW LIZARD PT,CORNWALL		
231083	12 011.1	49.68	-5.94	115.4	-17.2	0.6	0.16D	2.2	SW OF LIZARD PT.CORNWL		
011083	072010.8	49.61	-5.33	159.6	-27.0	5.0	0.22D	1.7	OFF LIZARD PT.CORNWL		
161183	142119.9	49.61	-5.93	116.4	-25.0	19.3	0.12D	1.5	OFF LIZARD PT,CORNWL		





Table 3 : Poorly located British earthquakes, 1982, 1983, 1984,  
listed chronologically.

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
050182	130740.1	56.34	-2.41	374.6	716.6	1.0	0.30D	1.5		FIFE NESS POSSIBLE QUARRY ?	
070182	1734	54.87	-1.40	438.3	552.6	0.0	1.34D	2.0		SUNDERLAND, TYNE&WEAR POSSIBLE EXPLOSION ?	
100182	125128.9	55.52	-4.00	273.9	627.1	0.3	0.13D	1.0		MUIRKIRK, STRATHCLYDE POSSIBLE QUARRY ?	
280182	104458.3	55.41	-5.59	172.7	618.6	20.3	0.21D	1.3		CAMPBELTOWN, ST`CLYDE POSSIBLE QUARRY ?	
110282	164920.6	54.09	-0.19						1.8	BRIDLINGTON, HUMBERSIDE2+ FELT BRIDLINGTON	
160282	073406.2	56.8	0.2							NORTH SEA (EXP?)	
310382	12 947.4	56.73	-8.25	17.8	777.5	9.7	0.58D	2.9		SW OF OUTER HEBRIDES POSSIBLE EXPLOSION ?	
010482	111745.0	54.93	-3.85	281.7	561.3	0.3	0.36D	2.0		NR DALBEATTIE, DUM&GAL POSSIBLE QUARRY ?	
060482	135859.9	56.12	-3.75	291.1	693.1	0.2	0.16D	0.7		NR ALLOA, CENTRAL POSSIBLE QUARRY ?	
170482	151148.1	53.98	-2.24	384.3	453.2	3.4	0.37D	1.6		NAPPA, LANCASHIRE POSSIBLE QUARRY ?	
200482	10 915.9	55.40	-5.16	200.2	616.6	6.8	0.32D	1.8		SOUTH OF ARRAN POSSIBLE EXPLOSION ?	
210582	2151								1.5	OFFSHORE JERSEY	
220682	16 6 2.2	55.26	-4.70	228.5	599.4	0.2	0.37D	1.7		NR DAILLY, STRATHCLYDE POSSIBLE QUARRY ?	
130882	145646.9	55.29	-4.13	264.5	601.3	0.3	0.34D	1.5		NR AFTON RESR, DUM&GA POSSIBLE QUARRY ?	
150982	163935.9	55.89	-2.72	355.0	666.9	0.4	0.39D	1.1		LAMMERMUIR HILLS, LOTH POSSIBLE QUARRY ?	
180982	122853.1	56.63	-2.64	360.6	749.2	4.2	0.09D	1.6		FRIOCKHEIM, TAYSIDE POSSIBLE QUARRY ?	
290982	16 3 0.6	55.20	-4.88	216.6	593.6	5.0	0.65D	1.7		NR GIRVIN, STRATHCLYDE POSSIBLE EXPLOSION ?	
161182	55313.4	56.04	-3.19	326.0	683.9	14.3	0.58D	0.8		FIRTH OF FORTH POSSIBLE EXPLOSION	
031282	235853.7	53.44	-1.29						1.6	FELT WICKERSLEY, NOTTS	2+
231282	143013.0	55.96	-4.07	270.4	675.5	13.1	0.15D	1.1		KILSYTH, STRATHCLYDE POSSIBLE QUARRY ?	
090383	102951.6	55.10	-2.59	362.4	578.4	6.0	0.06C	1.1		KIELDER, POSS QUARRY POSSIBLY RICHMOND	
150383	1303									WHISTON, ROTHERHAM	4+
300383	2200									MUFFLED EXP, PEOPLE IN STREETS	
080683	112621.1	54.91	-3.87	280.2	558.8	5.0	0.22D	2.1		DALBEATTIE, DUM&GA POSSIBLE QUARRY?	
270783	083559.0	54.62	-5.46	176.6	530.6	5.0	0.48D	2.5		NORTH CHANNEL, EXP? GREAT GLEN FAULT SWARM OF 26 EVENTS 0923, 220184-0251, 2501	
220184											
080384	124621.2	58.63	-4.85	234.8	975.0	6.6	0.13D	1.3		OFF FARAIID HEAD, HIGH LOCH MAREE, HIGHLAND	
200484	633										
200484	0359										
040584	103437.6	56.24	-3.04	335.7	705.3	3.9	0.28C	1.4		KENNOWAY, FIFE POSSIBLE QUARRY ?	

Table 3 : continued

Date	Time	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int
100884	1651	8.0	52.63	1.97		0.9	0.30D	2.4		OFF SHORE EXP,E.ANGLIA	
250884	33841.1	56.01	-3.47	308.5	680.5	0.0	0.24C	0.3		S OF ROSYTH,FORTH EXP?	
110984	175818.2	56.42	-6.20	141.0	733.1	1.2	0.23D	1.6		OFF ISLE OF MULL,ST`CL POSSIBLE EXPLOSION ?	
150984	51556.6	54.75	-5.18	195.2	543.8	0.0	0.37D	1.1		NORTH CHANNEL POSSIBLE EXPLOSION ?	
081084	15 1 0.4	55.16	-3.67	293.6	586.3	5.0	0.10D	0.1		DALSWINTON,DUM&GA POSSIBLE QUARRY ?	
121084	42934.6	56.03	-3.44	310.2	683.0	1.0	0.14B	0.3		ROSYTH,FIFE-EXP??	
171084	105353.6	56.57	-5.82	165.3	748.7	0.1	0.44D	1.6		MULL,HIGHLAND POSSIBLE EXPLOSION ?	
201084	1807 7.0	55.21	-3.30						-0.1	BORELAND AREA,DUM&GA INSUFFICIENT DATA, NO INSTRUMENTAL LOCAT	
221084	74625.6	55.86	-5.17	201.5	667.4	5.0	0.15C	1.9		OFF ISLE OF BUTE,ST`CL POSSIBLE EXPLOSION ?	
251084	1415 2.7	55.10	-3.46	306.8	579.2	1.6	0.12C	0.2		NR LOCHMABEN,DUM&GA POSSIBLE EXPLOSION ?	
151184	102049.7	48.85	-2.34			7.7	0.10D	1.8		S OF JERSEY POSSIBLE EXPLOSION ?	
281184	185820.9	48.91	-3.19			3.7	0.78D	2.6		SW OF JERSEY	
031284	152934.9	52.32	-3.80	277.3	271.1	2.0	0.25D	0.6		DEVILS BRIDGE,DYFED POSSIBLE QUARRY?	
111284	14 520.0	51.49	-2.56	361.4	177.1	5.0	0.54D	1.0		BRISTOL,AVON POSSIBLE EXPLOSION ?	
141284	14 213.2	51.43	-2.49	365.6	170.1	2.8	0.38D	1.1		BRISTOL,AVON POSSIBLE EXPLOSION ?	
291284	134122.0	52.11	1.25	622.5	250.8	0.0	0.31D	1.4		NR IPSWICH,SUFFOLK	

Table 4 : Lleyn Peninsula, North Wales series.  
 All locations are within a few km of the larger Lleyn earthquakes listed in Table 1.

Date	Time	Mag	Date	Time	Mag
190784	065613.58	5.4	290784	060613.25	0.9
190784	070602.05	1.8	290784	1255	0.7
190784	070807.43	2.4	290784	201757.30	4.0
190784	071930.13	2.7	290784	202213.65	0.9
190784	091702.28	2.0	290784	202235.19	0.9
190784	094208.41	2.9	290784	202328.42	0.8
190784	111629.42	1.7	290784	202338.47	1.6
190784	130240.12	2.4	290784	202758.11	0.8
190784	141807.61	1.4	290784	203657.81	0.4
190784	205318.78	2.4	290784	204522.09	2.5
200784	060023.54	1.8	290784	210403.19	1.0
200784	080430.26	1.6	290784	2126	0.0
200784	104924.95	1.2	300784	002244.09	1.1
200784	125604.74	2.3	300784	012436.28	1.8
200784	152613.08	2.5	300784	081226.79	1.5
200784	182624.39	1.9	300784	095937.09	1.6
210784	034544.66	2.0	300784	151552.09	2.7
210784	061436.88	1.6	300784	205624.41	1.4
210784	135508.33	2.3	300784	232416.57	1.2
220784	0340	0.2	310784	003233.93	0.7
220784	141258.52	1.6	310784	015808.84	0.8
220784	182734.09	2.0	310784	064807.93	0.6
220784	183007.06	1.6	310784	083228.69	0.3
230784	040858.30	1.3	310784	151944.23	0.6
230784	045544.62	1.2	310784	192846.90	1.6
230784	082927.45	2.8	010884	030743.01	1.5
240784	031534.52	0.9	010884	140459.58	0.6
240784	1042	1.0	010884	142204.62	1.0
250784	030354.23	1.5	010884	194005.57	1.0
250784	060834.16	2.1	010884	231713.81	1.7
250784	1226	0.6	020884	214652.85	1.0
250784	160336.54	1.7	020884	214701.50	1.2
250784	164109.10	0.8	030884	003104.44	0.9
250784	164301.41	1.1	030884	022624.20	0.3
250784	211942.41	1.2	030884	032001.65	0.8
260784	1532	0.6	030884	061702.96	0.6
260784	184107.66	1.7	030884	093754.90	0.6
260784	1917	0.2	030884	154928.40	1.0
260784	2203	0.0	040884	034411.81	2.7
270784	0301	0.1	040884	063533.92	1.7
270784	1256010.7	2.3	040884	070913.17	2.3
270784	164622.14	1.6	040884	104007.61	1.5
270784	212938.52	2.0	050884	100458.48	0.9
270784	2230	0.9	050884	150627.87	0.4
280784	040950.47	0.7	050884	192203.95	0.9
280784	070556.69	0.2	050884	211621.33	1.8
280784	0721	0.1	060884	072220.72	3.6
280784	084208.50	0.8	060884	072509.62	0.4
280784	0846	0.3	060884	073126.06	0.1
280784	132147.41	0.4	060884	082416.52	0.6
280784	2021	0.7	060884	085126.42	0.1
290784	002543.90	2.1	060884	122645.66	0.6
290784	004802.31	2.2	060884	124325.32	1.6

Table 4 : continued

Date	Time	Mag	Date	Time	Mag
060884	144009.82	-0.1	180884	155819.23	0.6
060884	161706.72	0.6	190884	025832.90	0.1
060884	170729.54	0.6	190884	033401.34	-0.1
070884	011508.31	0.8	190884	045053.09	0.6
070884	031841.58	0.7	190884	091029.95	0.1
070884	033253.60	0.0	190884	113336.83	-0.1
070884	085122.61	0.0	190884	175342.97	-0.2
070884	090626.24	0.0	200884	012803.43	-0.2
070884	114511.05	1.3	200884	021331.70	0.0
070884	201236.28	0.9	220884	182601.85	1.1
080884	075236.38	0.1	220884	182915.85	1.6
080884	123402.79	0.2	220884	195035.72	2.2
080884	150040.70	0.1	230884	085859.51	0.3
080884	155207.03	0.3	230884	164851.27	0.1
090884	021020.25	0.6	230884	192251.10	0.8
090884	080236.80	0.6	230884	195550.64	-0.4
090884	105607.64	0.8	240884	121751.03	0.1
090884	121034.61	0.5	240884	203012.76	0.4
100884	064522.97	0.1	240884	223844.71	1.8
100884	082829.95	0.4	240884	224501.40	1.3
100884	185510.89	1.1	250884	113946.71	0.7
100884	211359.75	0.1	250884	121204.12	0.1
100884	222027.53	1.1	260884	104232.84	0.8
110884	041038.81	0.4	260884	163209.79	0.1
110884	102603.92	0.3	260884	170702.59	0.3
110884	232842.46	0.3	260884	222041.60	0.4
120884	003142.56	2.0	280884	1626	0.6
120884	005456.69	0.4	280884	2251	0.7
120884	022356.33	0.7	290884	0605	0.8
120884	040630.22	2.3	290884	0759	1.2
120884	060910.00	1.1	290884	1913	0.8
120884	193533.52	0.9	290884	2138	1.0
130884	002816.90	0.1	300884	1040	0.0
130884	004056.91	0.9	300884	141619.71	2.0
130884	055334.56	-0.1	300884	1513	0.6
130884	185609.86	0.1	300884	215339.63	1.1
140884	025009.36	2.0	010984	055132.75	0.5
140884	025553.34	-0.2	030984	025912.77	0.4
140884	051525.17	0.1	030984	231814.96	0.5
150884	035021.48	-0.1	040984	032604.12	0.7
150884	074957.55	0.4	040984	041024.55	-0.4
150884	084145.67	1.2	040984	044534.27	0.1
150884	161443.19	0.5	040984	135620.75	-0.2
150884	202241.78	0.3	040984	200004.37	-0.4
160884	083250.84	0.1	050984	143710.70	1.3
160884	114444.90	-0.1	050984	160005.72	0.1
160884	134457.83	0.1	060984	142157.31	-0.2
170884	103753.26	1.5	060984	235128.57	0.6
170884	110359.09	0.5	070984	173630.94	1.3
180884	074230.03	1.3	080984	013107.42	1.1
180884	091316.72	1.4	080984	023547.71	0.6
180884	113727.72	4.3	080984	040949.66	1.4
180384	114109.18	-0.1	080984	144437.30	2.0

Table 4 : continued

Date	Time	Mag	Date	Time	Mag
090984	084235.47	1.1	211184	115103.59	0.5
100984	111000.67	0.2	211184	212453.47	1.1
100984	133341.93	1.0	221184	091617.31	0.5
110984	013316.29	1.4	231184	055118.85	0.5
110984	155818.71	1.4	231184	080627.77	0.4
110984	202007.94	1.1	241184	222754.08	1.1
120984	145315.39	0.2	251184	211053.52	0.6
120984	180710.03	0.9	261184	054526.74	1.9
120984	202514.20	1.0	011284	051230.12	0.6
180984	040006.31	0.6	021284	121328.30	1.1
200984	083259.00	0.6	061284	191232.81	1.1
200984	205424.60	0.4	071284	114534.69	0.1
210984	095739.42	0.8	071284	154621.25	0.7
210984	150915.09	0.3	081284	041530.74	-0.1
220984	091250.46	-0.1	081284	225241.11	0.3
220984	104629.56	0.5	141284	141947.03	0.7
220984	230022.89	0.1	151284	211519.82	0.1
230984	155117.82	1.6	161284	230753.41	0.4
240984	190021.19	0.1	181284	023604.93	0.4
240984	222527.66	0.6	191284	124105.92	0.7
260984	135425.52	0.7	201284	224341.25	-0.2
270984	005208.16	0.1	211284	112734.31	0.6
290984	192228.58	0.4	221284	1805	1.1
011084	100840.39	0.3	271284	132343.16	0.6
011084	212325.14	0.1	271284	170050.12	0.7
021084	155831.07	1.1	281284	051919.33	-0.2
021084	204416.45	0.6	281284	194939.48	1.4
031084	090929.38	0.3	291284	050919.18	1.7
061084	010839.55	1.6	301284	213953.48	0.9
061084	085107.57	0.9			
081084	204736.22	1.2			
131084	203707.83	0.5			
161084	123505.52	1.3			
171084	035143.04	0.7			
201084	144749.27	0.9			
211084	143150.01	0.3			
221084	053455.36	0.4			
221084	133431.92	1.4			
261084	131135.31	1.1			
281084	154147.10	0.1			
011184	062150.38	0.4			
051184	043216.38	0.8			
061184	084227.41	1.0			
081184	030756.30	0.8			
111184	232151.02	2.4			
121184	135459.99	0.1			
131184	000729.31	0.8			
131184	172418.34	0.4			
141184	085604.51	-0.1			
141184	223231.74	1.5			
161184	121818.47	0.4			
191184	015338.08	-0.2			
201184	111239.95	0.9			



Table 5 : Geographical coordinates of seismograph stations used by BGS

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Yrs open	Comp	Agency
ABA	BACONSTHORPE	52.8875	1.1471	611.7	336.9	13	82-	1	BGS
AHE	HEMPNAL	52.4730	1.3074	624.60	291.30	50	80-	1	BGS
APA	PACKWAY	52.2999	1.4779	637.1	272.6	35	84-	1	BGS
AST	STALHAM	52.7829	1.5385	638.6	326.5	72	82-84	1	BGS
AUD	ACHNANDARACH	57.3196	-5.6506	180.225	831.325	200	74-83	4	BGS
AWH	WHINBURGH	52.6299	0.9512	599.70	307.70	60	80-	1R	BGS
AWI	WITTON	52.8324	1.4460	632.1	331.7	35	83-	1	BGS
BBR	BROCKHURST	52.6071	-1.7785	415.0	301.0	125	83-	1	BGS
BFR	FRANKLEY	52.4230	-2.0074	399.5	280.6	210	83-	1	BGS
BSE	SEISDON	52.5316	-2.2374	383.9	292.7	100	83-	1	BGS
BUR	BURN	53.7186	-1.0008	465.93	425.18	13	84-	1	BGS
BYL	BERYL	59.5567	1.5161			-118	80-80	3	BGS
BYL	BERYL	59.5581	1.5078			-118	81-81	3	BGS
BYL	BERYL	59.5592	1.5114			-118	82-83	3	BGS
BYL	BERYL	59.5675	1.4847			-118	84-85	3	BGS
BZO	ZOO (DUDLEY)	52.5138	-2.0811	394.5	290.7	155	83-	1	BGS
CBH	BRAITHEAITE HL	54.8438	-2.9089	341.64	550.28	92	80-81	1	BGS
CBW	BUDOCK WATER	50.1482	-5.1144	177.525	32.29	98	81-	1	BGS
CCA	CARNMENELLIS	50.1864	-5.2277	169.62	36.87	213	81-	1	BGS
CCH	CHAPELKNOWE	55.0424	-3.0837	330.76	572.53	85	80-81	1	BGS
CCO	CONSTANTINE	50.1357	-5.1960	171.64	31.145	183	81-	1	BGS
CGH	GOONHILLY	50.0508	-5.1649	173.465	21.610	91	81-	1	BGS
CKL	KIRKLINTON	54.9958	-2.8861	343.32	567.17	35	80-81	3	BGS
CME	MENERDUE FARM	50.1760	-5.1903	172.238	35.608	178	82-	3	BGS
CPZ	PENZANCE	50.1560	-5.5835	144.065	34.655	198	81-	1	BGS
CR2	ROSEMANOWES 2	50.1669	-5.1687	173.7	34.5	152	81-	3	BGS
CRA	RAME	50.1648	-5.1921	172.060	34.363	198	82-	3	BGS
CRH	ROAD HEAD	55.0634	-2.7509	352.05	574.59	194	80-81	1	BGS
CRQ	ROSEMANOWES	50.1672	-5.1728	173.445	34.570	165	81-	4R	BGS
CSA	ST AUSTELL	50.3528	-4.8936	194.18	54.39	113	81-	1	BGS
CST	STITHIANS	50.1952	-5.1635	174.24	37.66	139	81-	1	BGS
CTR	TROLVIS QUARRY	50.1665	-5.1624	174.183	34.468	191	82-	3	BGS
CWF	CHARNWOOD FST	52.7382	-1.3071	446.78	315.88	152	75-	3R	BGS
DCO	COMBE FARM	50.3200	-3.8724	266.72	48.42	410	82-	1	BGS
DYA	YADSWORTHY	50.4352	-3.9309	262.89	61.33	280	82-	3	BGS
EAB	ABERFOYLE	56.1881	-4.3400	254.80	701.95	250	69-	1R	BGS
EAU	AUCHINOON	55.8444	-3.4547	308.92	662.20	350	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	328.237	588.022	337	81-	1R	BGS
EDI	EDINBURGH	55.9233	-3.1861	325.89	670.66	125	69-	3R	BGS
EDU	DUNDEE	56.5475	-3.0142	337.65	739.95	275	69-	1R	BGS
EGL	GALA LAW	55.8617	-2.7383	353.79	663.41	245	69-81	1R	BGS
ELO	LOGIEALMOND	56.4706	-3.7119	294.55	732.24	495	69-	1R	BGS
ESK	ESKDALEMUIR	55.3167	-3.2050	323.536	603.179	263	65-	3R	BGS
ESY	STONEYPATH	55.9177	-2.6144	361.603	669.569	328	81-	1R	BGS
FLO	FLORO (NORWAY)	61.5983	5.0439			50	83-85	3	BGS
FOO	FLORO (NORWAY)	61.5983	5.0439			50	85-	3R	BGS
FRO	FROYA (NORWAY)	61.7572	4.8819			50	84-	1R	BGS
HAE	ALDERS END	52.0376	-2.5475	362.45	237.88	224	82-	1	BGS
HBL	BONNYLANDS	52.0511	-3.0380	328.83	239.75	430	82-83	4	BGS
HCG	CRAIG GOCH	52.3224	-3.6567	287.1	270.7	511	80-	1R	BGS
HGH	GRAY HILL	51.6380	-2.8064	344.2	193.6	210	80-	1	BGS

Table 5 : continued

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Yrs open	Comp	Agency
HLM	LONG MYND	52.5169	-2.8878	339.8	291.4	259	84-	1	BGS
HPK	HAVERAH PARK	53.9554	-1.6240	424.67	451.12	227	78-	4R	BGS
HTL	HARTLAND	50.9944	-4.4850	225.636	124.667	91	81-	3R	BGS
HTR	TREWERN HILL	52.0790	-3.2697	313.0	243.1	329	82-	1	BGS
JLP	LES PLATONS	49.2428	-2.1039			131	81-	1	BGS
JRS	MAISON ST LOUIS	49.1924	-2.0917			53	81-	3R	BGS
JSA	ST AUBINS	49.1879	-2.1709			21	81-	1	BGS
JSO	ST OUEN	49.2247	-2.201			100	83-83	1	BGS
JSP	ST PETER	49.2153	-2.1792			92	83-83	1	BGS
JVM	VALLE D.L.MARE	49.2169	-2.2068			64	81-	1	BGS
KAC	ACHNASHELLACH	57.4999	-5.2982	202.4	850.3	330	83-	1	BGS
KAR	ARISAIG	56.9175	-5.8302	166.9	787.2	225	83-	1	BGS
KSB	SHIEL BRIDGE	57.2098	-5.4230	193.3	818.4	70	83-	1	BGS
KYL	KYLE	57.337	-5.653	180.2	833.3	105	83-	3R	BGS
KYL	KYLE	57.325	-5.648	180.4	831.9	200	68-74	3	BGS
LRW	LERWICK	60.1360	-1.1779	445.66	1139.27	100	78-	4R	BGS
MCD	COLEBURN DISTIL	57.5827	-3.2541	325.02	855.41	280	81-	4R	BGS
MCH	MICHAELCHURCH	51.9977	-2.9983	331.47	233.77	229	78-	4	BGS
MCO	COLEBURN DISTIL	57.5816	-3.2695	324.10	855.30	122	80-81	1	BGS
MDO	DOCHFUR	57.441	-4.363	258.17	841.43	366	81-	1	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	270.8	894.7	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
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
SFJ	STATFJORD	61.2550	1.8167			-150	85-	3	BGS
SML	MÉRELAKE	53.0814	-2.2846	380.94	353.87	150	80-81	1	BGS
SNC	NEWCHAPEL	53.0848	-2.2034	386.37	354.23	210	80-81	1	BGS
SRO	ROUCH FARM	53.0163	-2.1032	393.08	346.59	220	80-81	1	BGS
STD	DIMSDALE	53.0326	-2.2338	384.32	348.43	152	80-81	1	BGS
STM	STOKE ON TRENT	53.0033	-2.2648	382.23	345.18	198	75-83	4	BGS
WAL	WALLS	60.2576	-1.6133	421.40	1152.60	170	80-	1	BGS
WBR	BRONABER	52.8560	-3.8941	272.480	330.434	340	85-	1	BGS
WCB	CHURCH BAY	53.3782	-4.5465	230.630	389.864	135	85-	3	BGS
WFB	FAIRBOURNE	52.6830	-4.0378	262.266	311.465	325	85-	1	BGS
WFF	FFESTINIOG	52.9788	-3.9877	266.559	344.262	500	85-	4	BGS
WIM	ISLE OF MAN	54.1472	-4.6735	225.410	475.700	365	85-	1	BGS
WLC	LLYN CONWY	52.9956	-3.7788	280.630	345.765	440	85-	1	BGS
WLF	LLYNFAES	53.2893	-4.3966	240.266	379.636	65	85-	1	BGS
WME	MYNDD EILIAN	53.3966	-4.3034	246.862	391.367	130	85-	1	BGS
WPM	PENMAENMAWR	53.2583	-3.9049	272.942	375.197	350	85-	1	BGS
WVR	VYRNWY	52.7974	-3.6051	291.795	323.448	580	85-	1	BGS
XAL	ALLENDALE	54.8617	-2.2147	386.22	551.91	462	83-	1R	BGS
XDE	DENT	54.5058	-3.4897	303.55	513.31	291	83-	1R	BGS
XSO	SOURHOPE	55.4925	-2.2511	384.14	622.11	495	83-	1R	BGS
YBA	BARMOUTH	52.7348	-4.0516	261.496	317.255	250	84-85	1	BGS
YBE	BETHEL	53.2137	-4.3897	240.450	371.215	62	84-85	1	BGS
YCL	CLYNNOG	53.0088	-4.3493	242.400	348.338	340	84-85	3	BGS
YDW	DWYREN	53.1644	-4.3188	245.002	365.571	9	84-85	4	BGS



Table 5 : continued

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Yrs open	Comp	Agency
YEL	YELL	60.5509	-1.0830	450.29	1185.55	200	79-	1	BGS
YFF	FFRIDD	52.8537	-4.0606	261.270	330.492	240	84-85	3	BGS
YLL	LLANBERIS	53.1402	-4.1704	254.842	362.568	162	84-	1	BGS
YMY	FRON OLEU	52.9522	-4.4189	237.518	342.200	171	84-85	4	BGS
YNA	NANT	52.8009	-4.5284	229.571	325.629	54	84-85	1	BGS
YNE	NEFYN	52.9385	-4.4890	232.756	340.839	192	84-85	1	BGS
YPE	PENTTYRCH	52.9512	-4.3508	242.068	341.940	195	84-85	3	BGS
YRC	RHOSCOLYN	53.2506	-4.5741	228.289	375.745	24	84-	1	BGS
YRE	YR EIFL	52.9810	-4.4254	237.186	345.418	197	84-	3	BGS
YRH	RHIW	52.8335	-4.6289	222.930	329.500	300	84-	1	BGS
YTR	TREFAN	52.9308	-4.2535	248.550	339.460	57	84-85	1	BGS
YUC	UPPER CLYNNOG	52.9949	-4.2878	246.474	346.653	211	84-85	1	BGS
YYN	TREMADOG	52.9692	-4.1438	256.050	343.500	235	84-85	1	BGS
DCN	CROGHAN	53.3439	-7.2767			150	76-	1R	DIAS
DDK	DUNSINK OBS	53.3869	-6.3392			85		1R	DIAS
DLE	LYONS ESTATE	53.2872	-6.5436			140	80-	3R	DIAS
DMK	KILMASHOGUE	53.2553	-6.2644			280	76-	1R	DIAS
DMU	KINGSCOURT	53.8989	-6.9106			280	76-	1R	DIAS
ECB	CARRICKBYRNE	52.3661	-6.7811			125	81-	1R	DIAS
ECP	CARNSORE PT	52.1800	-6.3689			5		3R	DIAS
ETA	TARA HILL	52.6958	-6.2100			140		1R	DIAS
BMY	BINGLEY MOOR	53.8708	-1.8193	411.88	441.66	240	83-	1	LDS
HOY	HIGH HOYLAND	53.5867	-1.5973	426.65	410.11	205	83-	1	LDS
OXE	OXENHOPE MOOR	53.7908	-1.9798	401.33	432.74	438	83-	1	LDS
LPW	LAMPETER	52.114	-4.068			152		1R	MoD
ASK	ASKOY	60.483	5.195			50		1	NOR
BER	BERGEN	60.3869	5.3258			50		1	NOR
HYA	HOYANGER	61.166	6.187			30		1	NOR
KBS	KINGSBAY	78.9175	11.9239			46		1	NOR
KMY	KARMOY	59.212	5.247			58		1	NOR
KON	KONSBERG	59.6491	9.5982			216		1	NOR
ODD	ODDA	59.950	6.667			630		1	NOR
SUE	SULEN	61.057	4.761			10		1	NOR
TRO	TROMSO	69.6325	18.9284			15		1	NOR
DOU	DOURBES	50.0960	4.5942			225		1R	BEL

## Agency codes:

BEL	Observatoire Royal De Belgique, Belgium
BGS	British Geological Survey
DIAS	Dublin Institute of Advanced Studies
LDS	University of Leeds
MoD	Ministry of Defence, Blacknest
NOR	University of Bergen, Norway

## Component codes:

1	single vertical seismometer
3	orthogonal set of 3 seismometers
4	as in 3, above, plus one low-gain vertical
R	station coordinates registered with the International Seismological Centre, England and the National Earthquake Information Centre, USA.

MAGNITUDE (Symbol Radius)	
.	< 1.0
,	1.0 ≤ AND < 2.0
	2.0 ≤ AND < 3.0
	3.0 ≤ AND < 4.0
	4.0 ≤ AND < 5.0
	5.0 ≤

Key to epicentre plots in Figures 2 to 10

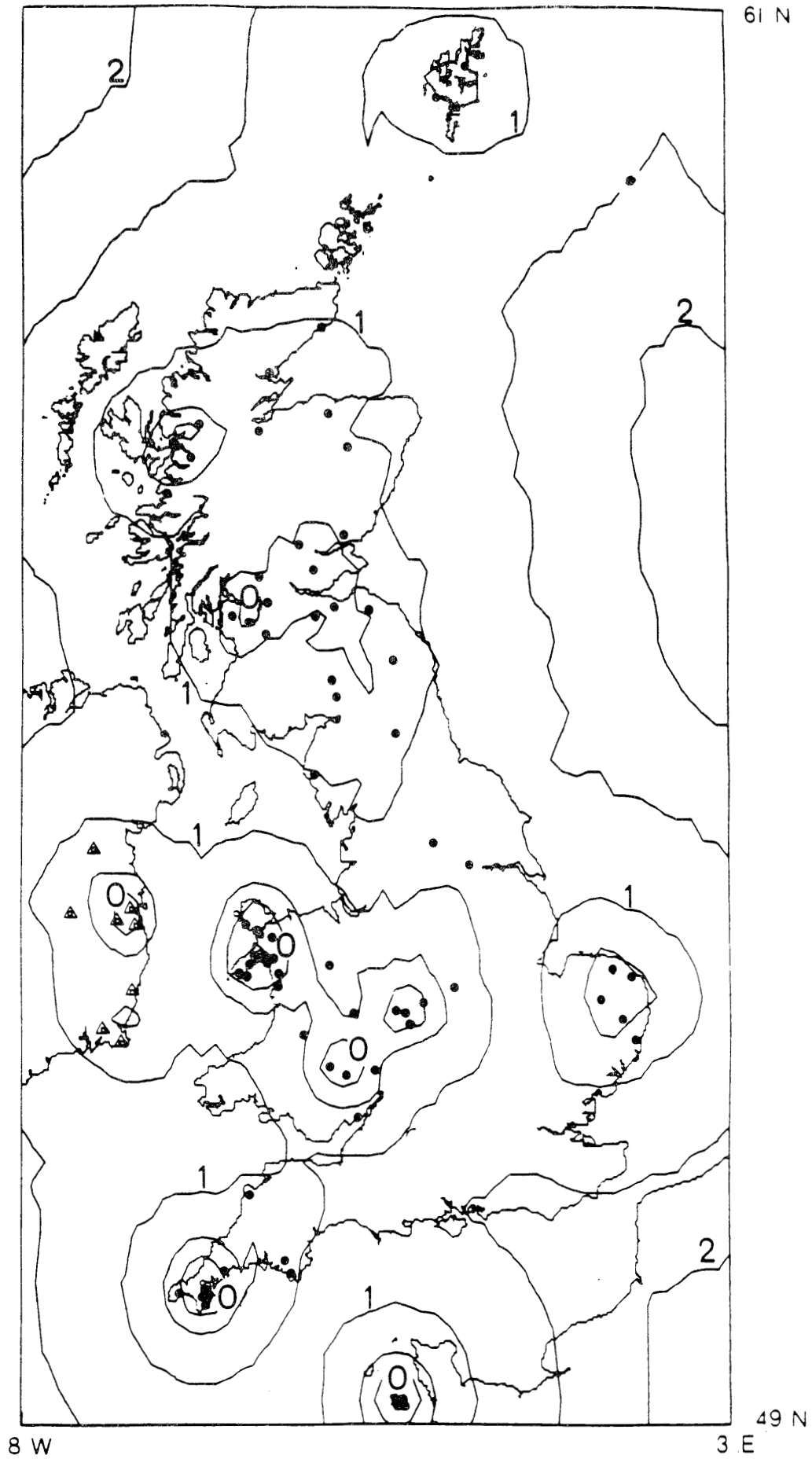


Figure 1 : The seismograph network, 1984, and its detection capabilities for magnitude 0, 1 and 2 earthquakes.

BGS Seismographs	●
DIAS (Dublin) seismographs	▲

ALL EVENTS UK 1982-84

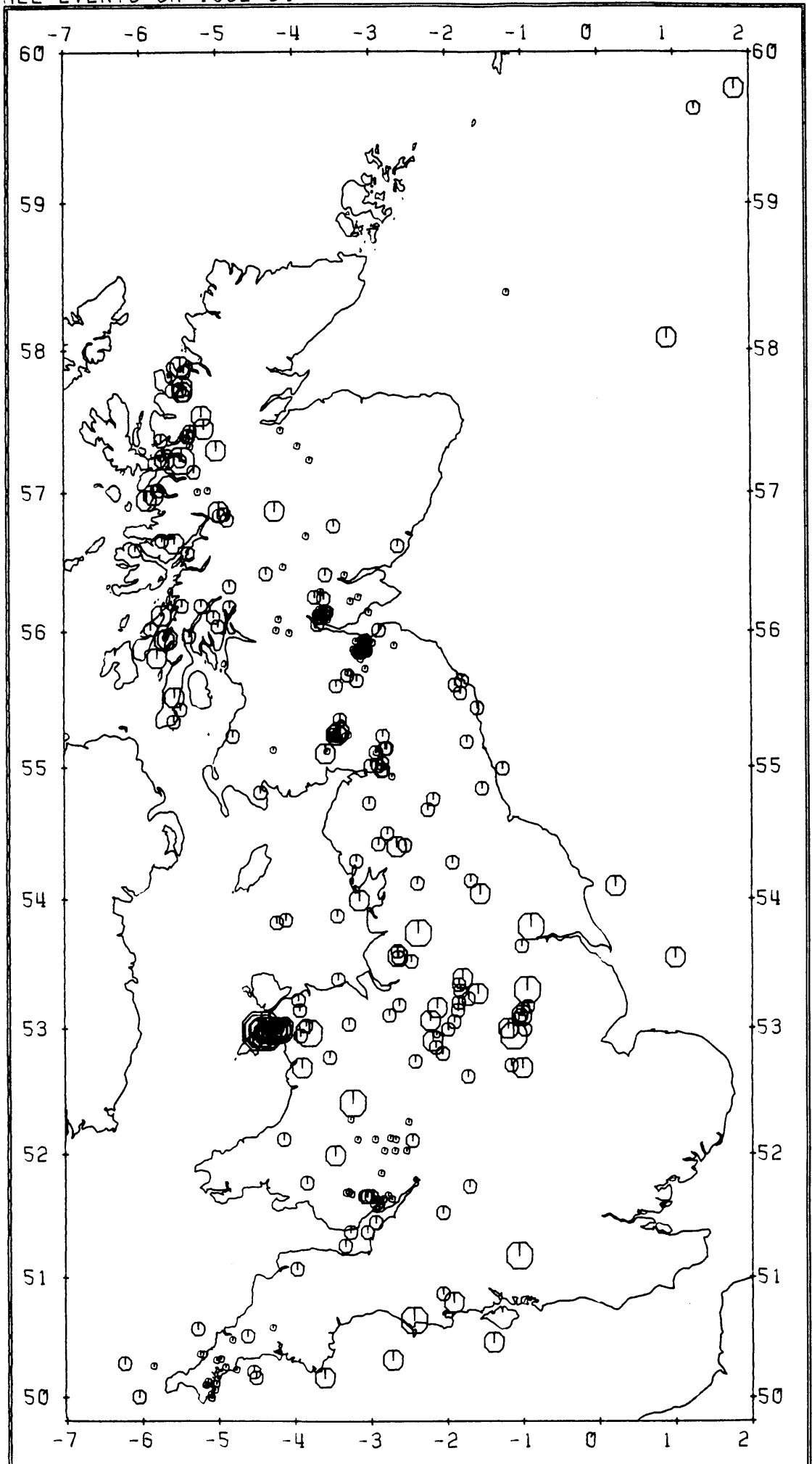


Figure 2 : Epicentres in Britain 1982, 1983, 1984.

ALL EVENTS NW BRITAIN 1982-84

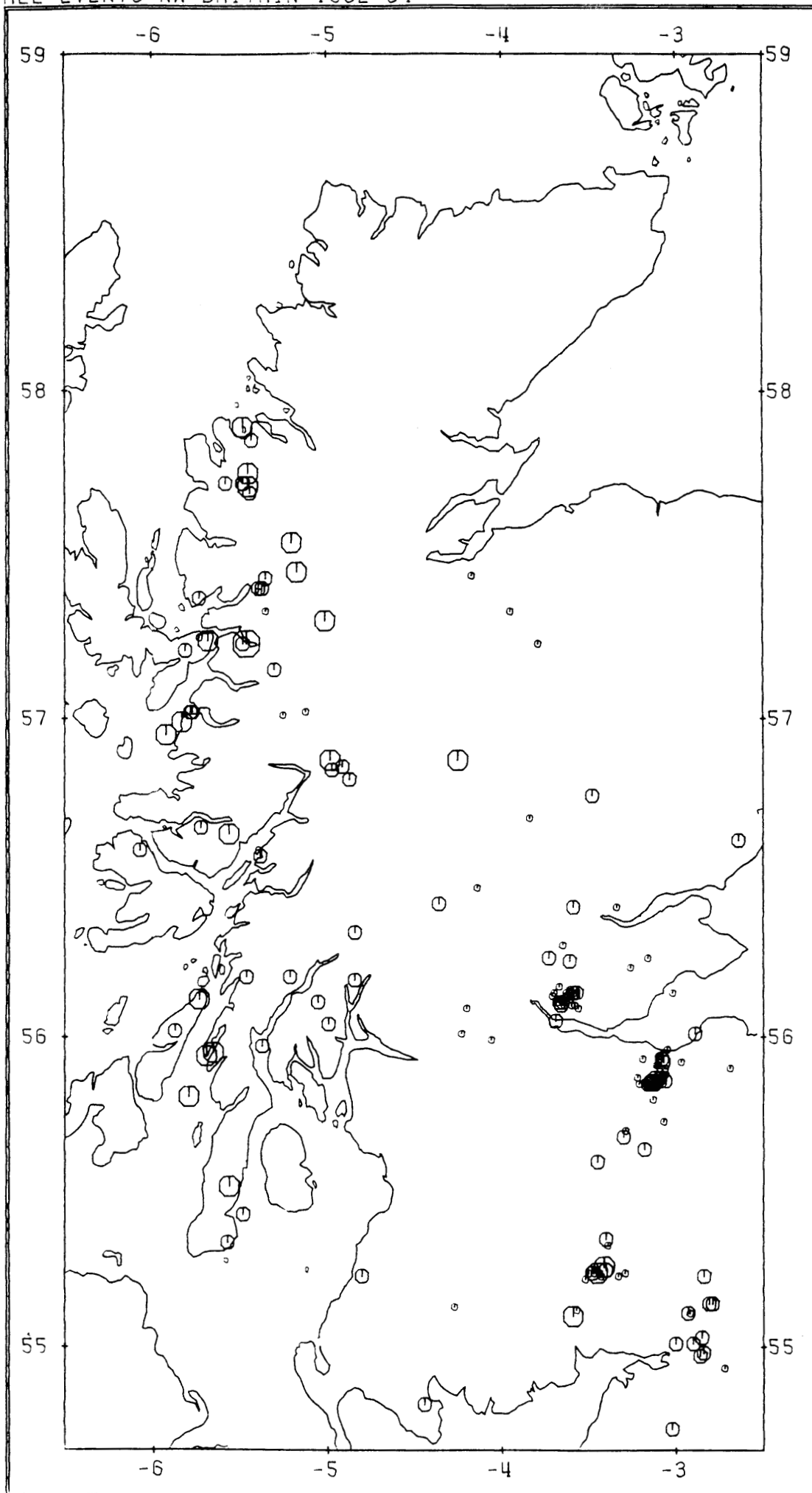


Figure 3 : Epicentres in NW Britain 1982, 1983, 1984.

ALL EVENTS NE BRITAIN 1982-84

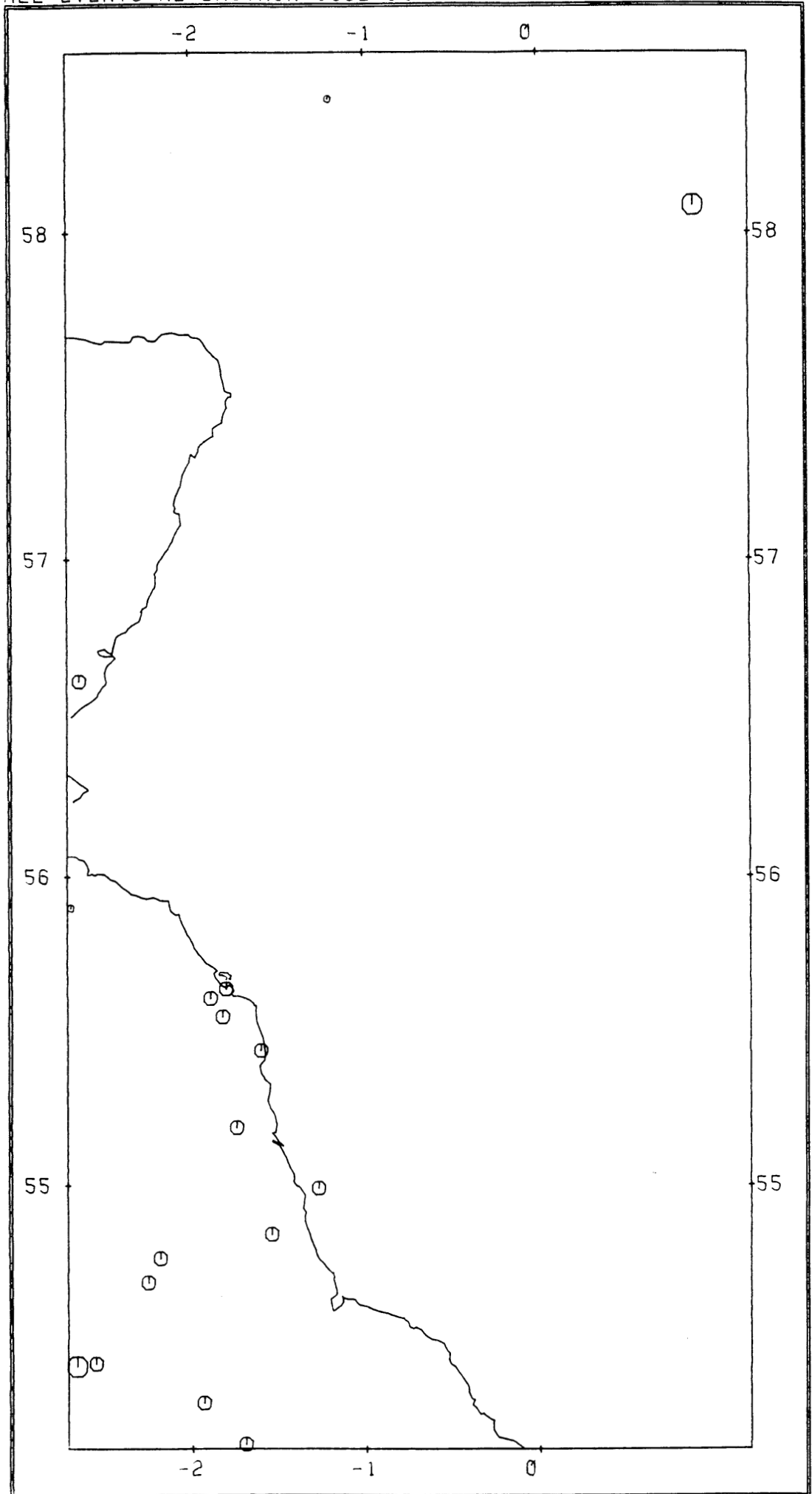


Figure 4 : Epicentres in NE Britain 1982, 1983, 1984.

ALL EVENTS SW BRITAIN 1982-84

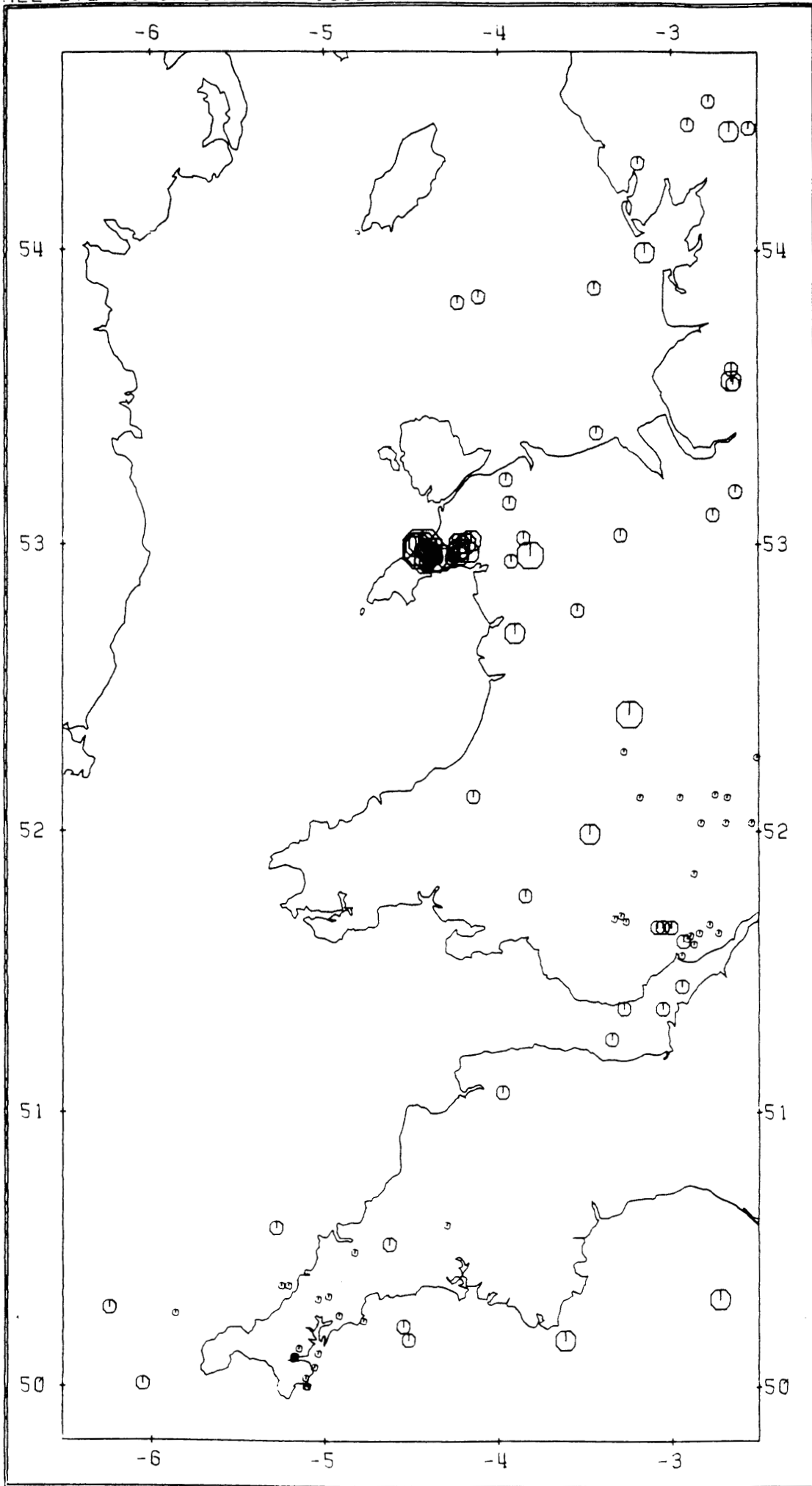


Figure 5 : Epicentres in SW Britain 1982, 1983, 1984.

ALL EVENTS SE BRITAIN 1982-84

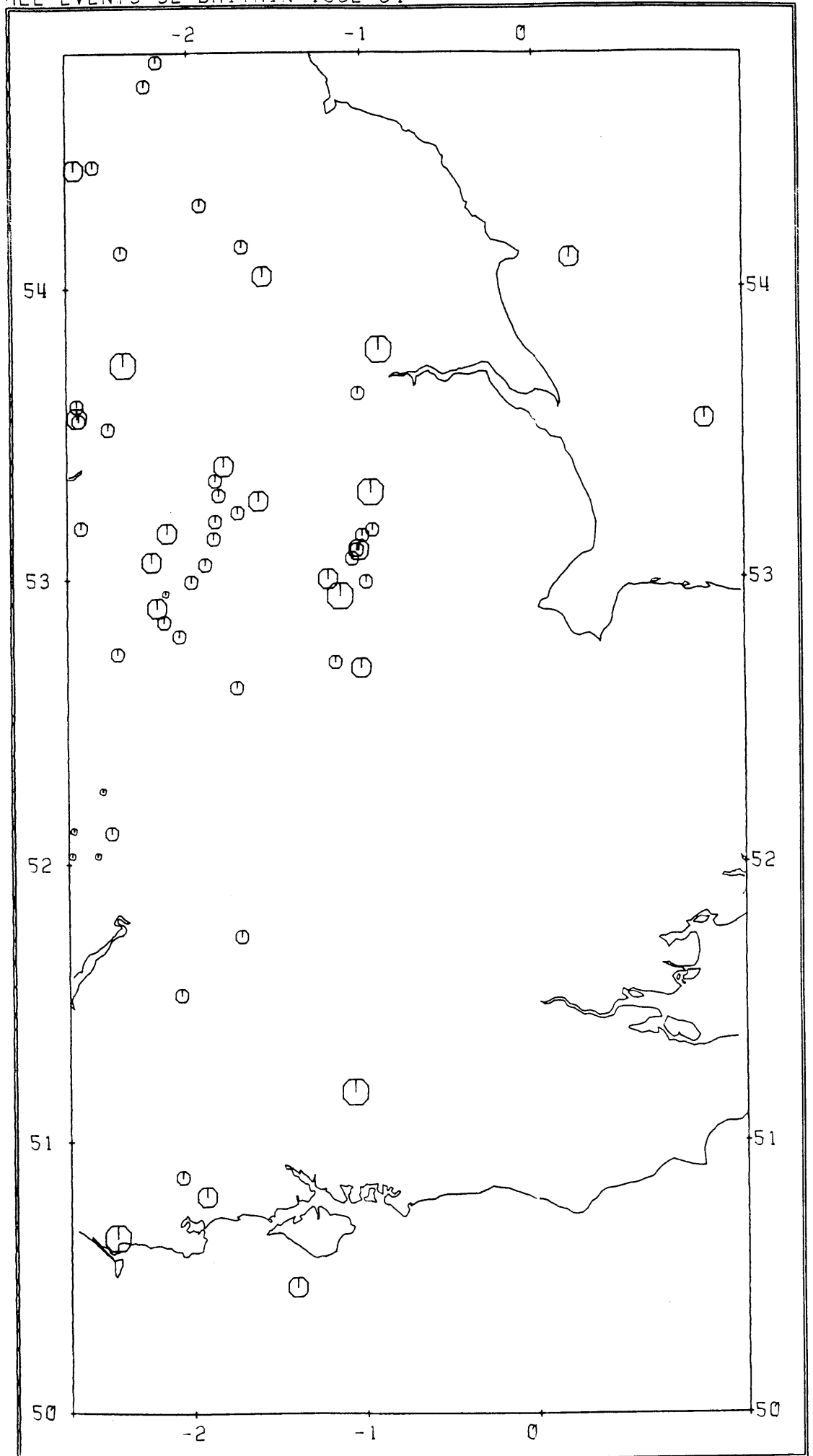


Figure 6 : Epicentres in SE Britain 1982, 1983, 1984.



EVENTS  $\geq 2.5$  ML UK 1982-84

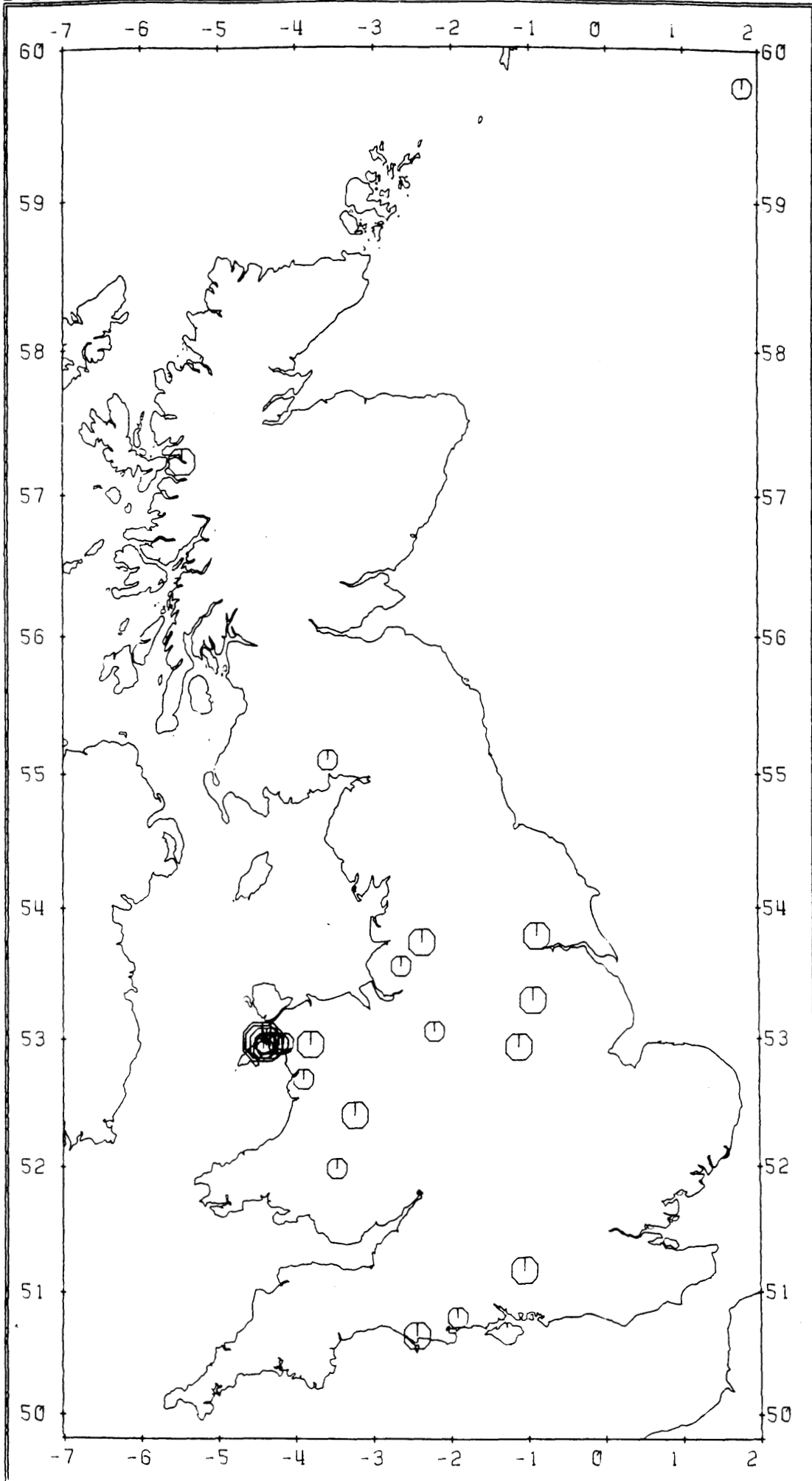


Figure 7 : Epicentres of earthquakes with magnitudes 2.5 ML or greater 1982, 1983, 1984.

EVENTS  $\geq 2.5$ ML UK 1979-84

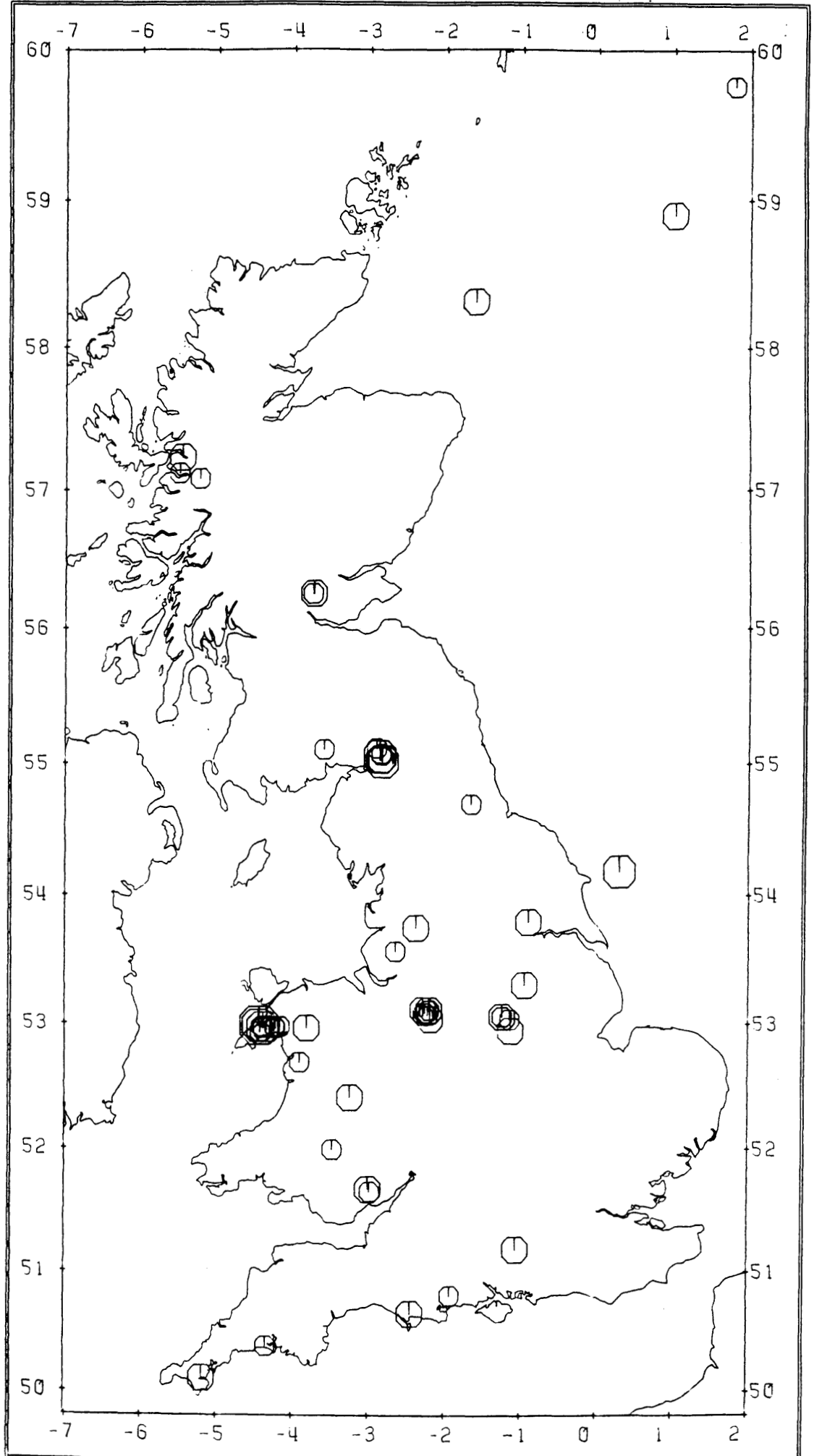


Figure 8 : Epicentres of earthquakes with magnitudes 2.5 ML or greater 1979 to 1984.

EVENTS  $\geq 3.5$  ML UK 1969-84

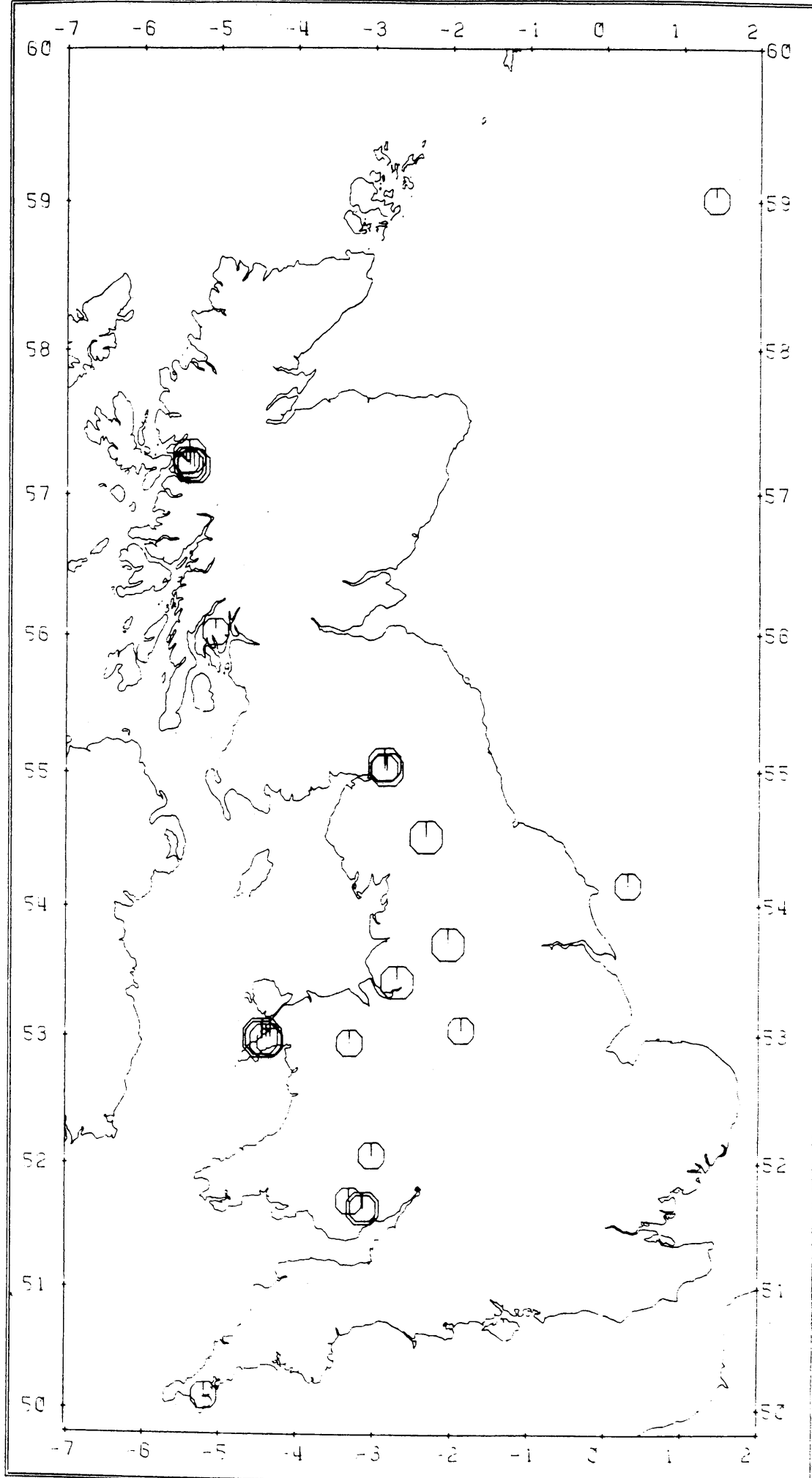


Figure 9 : Epicentres of earthquakes with magnitudes 3.5 ML or greater 1969 to 1984.

ALL NORTH SEA EVENTS 1982-84

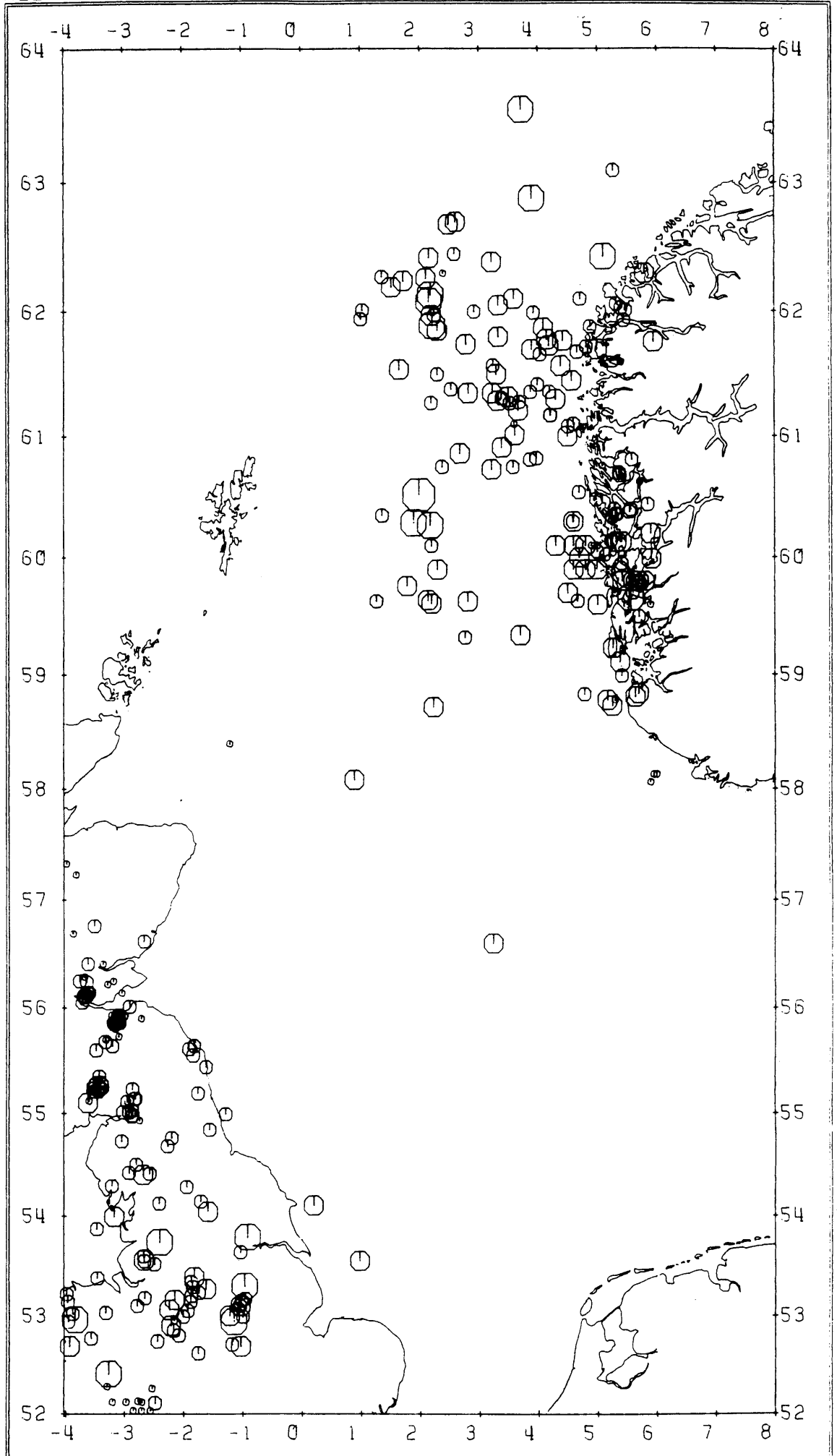


Figure 10 : Epicentres in the North Sea 1982, 1983, 1984.



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