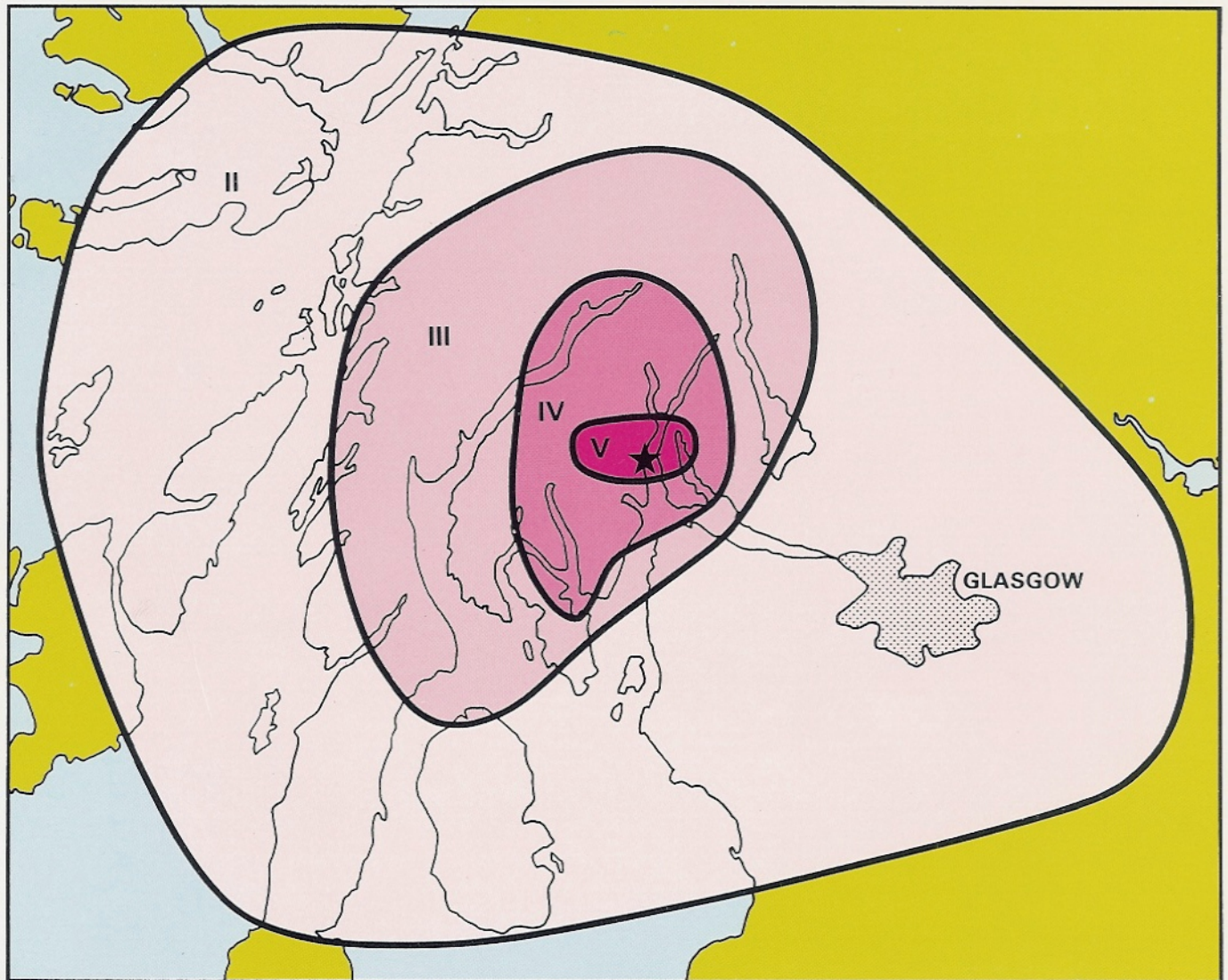


**BRITISH GEOLOGICAL SURVEY**



**BULLETIN OF BRITISH EARTHQUAKES**

**1985**



British Geological Survey  
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West Mains Road  
Edinburgh  
EH9 3LA

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Telex 727343 SEISED G

Price £10

GLOBAL SEISMOLOGY

Report No 303

Bulletin of British earthquakes

1985

April 1987

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## 1. Introduction

Seismic phase data, location details and magnitudes are presented for all earthquakes detected and located by BGS during 1985. 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 is included using data from the Bulletin of North Sea Earthquakes, 1985, by Newmark et al (1986).

The seismicity of the UK since 1969 is illustrated using data extracted from the previous catalogues of Burton and Neilson (1980) and Turbitt (1984, 1985).

## 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 arrival 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 et al, 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.



Data on the earthquakes and seismograph stations operated in 1985 are arranged as follows:

TABLE 1 is a chronological listing of all earthquakes near the UK for which a reliable epicentral location could be obtained.

TABLE 2 is a listing of the events in Table 1 arranged in order of decreasing latitude to facilitate identification of 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 is an alphabetical listing of the geographic coordinates of seismograph stations operated in 1985 by BGS, DIAS and Leeds University.

TABLE 5 lists the arrival times of phases for the events in Table 1 at each station, together with amplitude information used for magnitude calculation.

TABLE 6 is the crustal seismic velocity model used for event location.

## 2.2 Figures

FIGURE 1: the detection threshold of the network of seismograph stations in Table 4 for average background noise conditions where the detection criterion is signal received above 4 nanometres at 10 Hz on 3 stations.

FIGURE 2: the variation of epicentral location errors within the UK area for a magnitude 2.0 earthquake.

FIGURE 3: the epicentral location map of all the events in 1985 that are listed in Table 1.

FIGURE 4: the locations of earthquakes in the UK of magnitude 2.5ML and above from 1979 to 1985.

FIGURE 5: the locations of earthquakes in the UK of magnitude 3.5ML and above from 1969 to 1985.

FIGURE 6: the locations of earthquakes in the North Sea area in 1985.

## 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 three channels to permit rapid investigation of reported felt tremors. At other stations 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.

The improvements in geographic coverage of the UK with the installation of more seismic networks in the last fifteen years is described in Turbitt (1985).

### 3.2 Detection Threshold

The detection capabilities of a network depend upon station distribution, instrument sensitivity and background noise levels. For the BGS UK network the lower limit of sensitivity is governed by the background noise level. The contours in Figure 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 continuously analysed.

## 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 HYP071 (Lee and Lahr, 1975) which iteratively adjusts a trial hypocentre (latitude, longitude, depth, and origin time) until the observed and computed arrival times coincide closely.

The accuracy of locations is 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.

Figure 2 illustrates the likely variation of epicentral location errors within the UK area for a magnitude 2.0 earthquake, 5km deep. These errors have been determined by the computer program HYPOERR (Lienert et al, 1986) assuming P and S arrival time variances of 0.2 and 0.4 seconds respectively at all detecting stations. The rapid increase in epicentral uncertainty to 20 km and above is apparent as the epicentre moves beyond the detecting

range of the seismograph network. 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.

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; Bamford et al, 1978; 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.

#### 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 for example in the Lley Peninsula. 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 kilometres near the coal workings.

For events at larger distances, depth errors may be up to tens of kilometres. 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 3.2 above), the catalogue is biased towards certain localities. In order to present a consistent picture of UK seismic activity, earthquakes with magnitude 2.5 ML or greater, in the period 1979-1985 have been plotted in Figure 4. The data set is considered complete for these magnitudes in all localities. Seismicity for 1969-1985 is shown in Figure 5 with a threshold magnitude of 3.5. This is the period covered by BGS instrumentation which consisted only of the network around Edinburgh (LOWNET) and Eskdalemuir (ESK) in the early years.

#### 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<sub>0</sub> is that for a "standard" magnitude zero earthquake at the same distance. The A<sub>0</sub> term is thus a distance correction factor tabulated by Richter to 200, and later 600km,

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  $2^{\circ}\text{E}$  and  $60^{\circ}\text{N}$ . The North Sea as a whole is covered in the BGS catalogue for that area (eg. Newmark and Turbitt, 1985 and Newmark et al, 1986).

#### 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 and subsidence takes place.

#### 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 approximately magnitude 1.7, 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 the Department of the Environment the Nuclear Installations Inspectorate, the CEGB and the Natural Environment Research Council. It is published with the approval of the Director of the British Geological Survey (NERC).



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CATALOGUE OF EVENTS : 1985

Table 1

Events listed chronologically

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int Comments...
010185	001656.1	57.05	-5.77	171.1	801.7	11.9	0.09C	0.9		NR MALLAIG,HIGHLAND	
040185	021519.7	52.97	-4.40	238.9	344.0	22.1	0.04A	2.3		LLEYN PENIN, NW WALES	
040185	032732.5	57.32	-5.57	185.2	831.2	13.6	0.08D	0.0		NR PLOCKTON,HIGHLAND	
040185	084723.6	52.95	-4.38	239.9	342.3	20.0	0.43C	0.6		LLEYN PENIN, NW WALES	
040185	091821.8	52.96	-4.40	238.8	343.4	22.5	0.05A	0.2		LLEYN PENIN, NW WALES	
060185	140843.3	56.86	-6.10	149.8	781.8	6.4	0.11C	0.8		EIGG,HIGHLAND	
060185	171329.2	52.23	-1.58	428.6	259.2	4.0	0.23C	1.6		WASPERTON,WARWICKSHIRE	
060185	225347.5	52.97	-4.39	239.6	343.7	23.1	0.06A	0.8		LLEYN PENIN, NW WALES	
070185	010747.9	53.07	-4.36	242.0	355.1	24.7	0.36C	0.2		LLEYN PENIN, NW WALES	
070185	180237.7	52.97	-4.40	238.9	344.2	22.7	0.04A	0.7		LLEYN PENIN, NW WALES	
070185	195734.4	52.97	-4.41	237.9	344.4	21.5	0.06A	-0.1		LLEYN PENIN, NW WALES	
100185	092529.7	55.33	-2.99	337.4	604.6	10.8	0.07B	0.7		TEVIOHEAD, DUMF & GA	
100185	124649.6	51.88	-5.00	193.6	224.1	1.1	0.24D	1.4		NR HAVERFORDWEST,DYFED	
110185	222904.8	50.39	-4.22	242.2	57.1	5.0	0.31D	0.9		TORPOINT,DEVON	
120185	025003.8	55.85	-3.13	329.4	662.3	2.0	0.16B	0.8		ROSEWELL, LOTHIAN	
120185	200435.8	52.96	-4.37	241.0	343.1	23.2	0.08A	0.5		LLEYN PENIN, NW WALES	
160185	004951.6	52.96	-4.38	240.2	343.5	21.3	0.07B	0.2		LLEYN PENIN, NW WALES	
200185	101027.7	52.96	-4.38	240.0	343.4	22.2	0.04B	0.3		LLEYN PENIN, NW WALES	
210185	222619.8	52.97	-4.40	238.7	344.5	22.2	0.02B	0.2		LLEYN PENIN, NW WALES	
220185	150119.0	49.49	-7.36			5.0	0.33D	2.4		SW SCILLY ISLES	
220185	183954.8	49.67	-7.45			1.2	0.15D	2.3		SW SCILLY ISLES	
230185	222723.6	58.77	1.67			9.4	0.90D	1.9		NORTH SEA	
240185	132518.1	52.96	-4.38	239.9	342.9	21.2	0.04B	1.3		LLEYN PENIN, NW WALES	
260185	144219.6	49.86	-7.54	1.7	10.1	4.0	0.26D	2.2		SW SCILLY ISLES	
270185	011421.7	52.96	-4.41	238.4	343.3	22.7	0.04B	0.4		LLEYN PENIN, NW WALES	
280185	180247.6	57.00	-5.74	173.1	796.1	11.6	0.26C	1.4		NR MALLAIG,HIGHLAND	
300185	204442.7	52.96	-4.39	239.8	343.1	24.5	0.18B	0.5		LLEYN PENIN, NW WALES	
300185	233140.4	52.96	-4.39	239.6	343.4	21.8	0.08A	1.4		LLEYN PENIN, NW WALES	
010285	145145.7	50.03	-7.67			5.0	0.31D	2.0		SW SCILLY ISLES	
030285	012611.9	52.96	-4.39	239.8	343.4	22.7	0.04B	0.2		LLEYN PENIN, NW WALES	
040285	061616.3	56.25	-3.72	293.3	707.5	3.4	0.09B	1.6		OCHIL HILLS,TAYSIDE	
040285	150134.9	54.43	-2.33	378.5	504.5	5.1	0.14D	1.7		NR KIRKBY STEPHEN,CUMB	
050285	000637.3	56.25	-3.72	293.3	707.7	3.0	0.02B	0.7		OCHIL HILLS,TAYSIDE	
060285	004648.3	57.66	-5.52	190.3	868.7	15.0	0.22D	1.0		LOCH MAREE,HIGHLAND	
060285	233635.5	52.96	-4.41	238.0	342.8	20.6	0.09B	0.6		LLEYN PENIN, NW WALES	
130285	145105.9	50.52	-5.51	151.4	74.5	9.5	0.04D	1.1		W.TREVOSE HEAD,CORNWAL	
200285	211218.1	55.56	-4.89	217.9	633.0	8.3	0.35D	1.3		FIRTH OF CLYDE	
270285	024731.5	55.92	-3.09	332.0	670.6	0.9	0.02B	1.3		DANDERHALL,LOTHIAN	
020385	211730.3	55.86	-3.13	329.4	663.6	1.9	0.04B	0.8		ROSEWELL, LOTHIAN	
050385	115541.3	52.91	-4.27	247.6	337.1	23.6	0.54C	0.6		LLEYN PENIN, NW WALES	
060385	223931.9	55.86	-3.12	329.6	663.6	2.6	0.09C	0.6		ROSEWELL, LOTHIAN	
090385	235200.5	52.96	-4.36	241.2	343.3	21.1	0.09A	1.1		LLEYN PENIN, NW WALES	
100385	011730.4	56.26	-3.72	293.6	708.6	7.8	0.14B	1.7		OCHIL HILLS, TAYSIDE	
130385	024513.3	55.86	-3.12	329.9	663.3	0.2	0.06B	0.7		ROSEWELL, LOTHIAN	
140385	190025.6	52.97	-4.40	238.8	344.3	22.6	0.04B	1.1		LLEYN PENIN, NW WALES	
150385	110214.6	56.25	-3.73	292.7	707.4	3.5	0.16C	0.5		OCHIL HILLS, TAYSIDE	
150385	200037.7	55.86	-3.12	329.8	663.7	3.6	0.10C	0.6		ROSEWELL, LOTHIAN	
190385	014823.8	55.86	-3.12	329.9	663.6	2.1	0.08C	0.4		ROSEWELL, LOTHIAN	
200385	030216.7	55.85	-3.12	329.7	662.6	0.1	0.01C	0.5		ROSEWELL, LOTHIAN	
200385	101129.8	52.96	-4.39	239.8	343.1	19.3	0.09B	0.7		LLEYN PENIN, NW WALES	2+ FELT BILSTON PIT, BUMP & BROKEN GIRDER

CATALOGUE OF EVENTS : 1985

Table 1 contd

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int	Comments...
230385	190025.1	52.71	-4.01	264.2	314.3	12.7	0.08C	1.2	1.2	E OF BARMOUTH, GWYNEDD		
240385	032546.9	52.97	-4.39	239.3	344.0	22.3	0.05A	1.9	1.9	LLEYN PENIN, NW WALES		
240385	104541.0	55.86	-3.08	332.2	663.9	8.1	0.02C	0.2	0.2	ROSEWELL, LOTHIAN		
250385	104337.9	56.88	-5.20	204.8	781.0	8.6	0.45C	1.0	1.0	FORT WILLIAM, HIGHLAND		
260385	005517.3	50.11	-5.17	173.6	27.9	5.3	0.04B	-0.6	0.6	S CONSTANTINE, CORN		
260385	221131.6	55.66	-2.30	381.2	640.6	8.6	0.26D	1.0	1.0	NR COLDSTREAM, BORDERS		POSSIBLE QUARRY, BUT UNUSUAL TIME
020485	204343.9	50.79	-4.91	194.6	102.8	7.3	0.17C	1.2	1.2	N OF TINTAGEL, CORNWALL		
030485	152234.6	52.97	-4.40	239.7	344.6	22.6	0.06A	0.6	0.6	LLEYN PENIN, NW WALES		
040485	195112.5	52.97	-4.40	238.9	344.2	23.1	0.05A	1.2	1.2	LLEYN PENIN, NW WALES		
040485	195144.7	52.97	-4.40	238.7	344.4	22.6	0.08A	1.2	1.2	LLEYN PENIN, NW WALES		
040485	211015.9	55.88	-3.10	331.3	665.4	7.7	0.01C	0.7	0.7	POLTON, LOTHIAN		
070485	193357.3	52.97	-4.40	238.5	344.3	23.0	0.07A	0.5	0.5	LLEYN PENIN, NW WALES		
080485	044720.7	56.99	-5.54	185.1	794.4	3.2	0.15C	2.3	2.3	LOCH NEVIS, HIGHLAND		
080485	180108.4	56.98	-5.58	182.5	792.9	5.4	0.18D	1.3	1.3	LOCH MORAR, HIGHLAND		
090485	183849.0	55.85	-5.99	150.4	669.2	5.0	0.45D	2.4	2.4	JURA, STRATHCLYDE		
100485	001943.3	55.86	-3.11	330.2	663.6	1.0	0.10C	0.0	0.0	ROSEWELL, LOTHIAN		
110485	081346.7	55.89	-5.94	153.5	673.6	5.0	0.31D	2.0	2.0	JURA, STRATHCLYDE		
110485	110926.8	57.60	-3.14	331.8	857.8	0.2	0.40D	1.4	1.4	SE OF ELGIN, GRAMPIAN		
110485	215949.7	55.11	-3.46	306.6	580.7	3.0	0.32D	0.9	0.9	N OF LOCHMABEN, DUMF&GA		
130485	095221.0	55.84	-3.15	328.0	661.7	0.5	0.22B	0.8	0.8	ROSEWELL, LOTHIAN		
150485	190209.5	51.43	1.56	647.5	175.6	1.5	0.30D	3.0	3.0	OFFSHORE RAMSGATE		
180485	044029.9	50.65	-5.16	176.3	87.8	5.0	0.19D	1.3	1.3	NW OF TREVOSE HEAD, COR		
180485	182855.9	57.01	-4.77	232.1	794.3	0.0	0.29D	1.4	1.4	E OF LOCH LOCHY, HIGH.		
190485	144502.6	53.04	-1.83	411.3	349.2	4.5	0.15D	1.5	1.5	SWINCOE, STAFFS		
200485	212745.9	50.66	-5.19	174.6	89.0	5.0	0.08C	1.6	1.6	NW OF TREVOSE HEAD, COR		
200485	234256.2	50.65	-5.17	175.8	88.0	4.4	0.02D	1.1	1.1	NW OF TREVOSE HEAD, COR		
210485	142530.4	50.62	-5.11	180.1	84.2	7.8	0.29D	1.1	1.1	NW OF TREVOSE HEAD, COR		
250485	014019.2	52.96	-4.38	240.3	343.4	22.6	0.05A	0.7	0.7	LLEYN PENIN, NW WALES		
250485	133201.3	50.65	-5.31	166.1	88.8	4.0	0.30D	1.6	1.6	NW OF TREVOSE HEAD, COR		
260485	155736.3	55.86	-3.12	329.9	663.3	2.3	0.07B	1.0	1.0	ROSEWELL, LOTHIAN		
290485	052246.1	56.24	-3.75	291.8	707.2	3.1	0.10C	0.6	0.6	GLEN DEVON, TAYSIDE		
300485	191417.9	55.85	-3.12	329.7	662.7	0.4	0.07B	1.0	1.0	ROSEWELL, LOTHIAN		
010585	022643.4	52.97	-4.39	239.3	344.3	23.3	0.08A	0.9	0.9	LLEYN PENIN, NW WALES		
010585	081729.6	52.04	-3.27	312.9	238.2	16.7	0.05B	0.9	0.9	NR BRECON, POWYS		
020585	025238.7	55.86	-3.12	329.6	663.3	0.5	0.12B	0.8	0.8	ROSEWELL, LOTHIAN		
020585	133453.1	55.86	-3.13	329.2	663.1	1.8	0.08C	0.9	0.9	ROSEWELL, LOTHIAN		
020585	185843.8	57.17	-4.56	245.3	811.6	5.0	0.34D	0.9	0.9	LOCH NESS, HIGHLAND		
030585	005825.2	50.60	-5.30	166.9	83.4	8.7	0.04D	1.6	1.6	NW TREVOSE HEAD, CORN		
050585	214349.1	52.96	-4.39	239.7	342.8	21.2	0.09B	0.6	0.6	LLEYN PENIN, NW WALES		
090585	041940.6	55.86	-3.11	330.3	663.5	2.0	0.07C	0.9	0.9	ROSEWELL, LOTHIAN		
100585	081453.3	52.97	-4.41	238.3	344.1	21.9	0.06A	0.8	0.8	LLEYN PENIN, NW WALES		
140585	202651.6	52.96	-4.39	239.8	343.4	23.4	0.06A	1.1	1.1	LLEYN PENIN, NW WALES		
180585	225806.3	51.59	-3.10	323.7	188.5	18.1	0.05C	0.8	0.8	NEWPORT GWENT		
220585	120938.0	56.82	-5.15	207.7	774.4	1.0	0.27D	1.2	1.2	NR FORT WILLIAM		
220585	153131.7	55.41	-3.27	319.8	613.4	1.0	0.53D	0.7	0.7	NE OF MOFFAT, DUMF&GA		
230585	032901.1	57.24	-5.79	171.2	822.6	7.5	0.32D	1.1	1.1	NR KYLEAKIN, HIGHLAND		
230585	231334.2	52.00	-3.43	302.0	234.4	14.3	0.12C	0.7	0.7	NR BRECON, POWYS		
240585	004753.4	52.96	-4.38	240.3	343.0	22.6	0.07B	0.8	0.8	LLEYN PENIN, NW WALES		
250585	025934.3	55.86	-3.11	330.6	663.8	1.5	0.10B	0.3	0.3	POLTON, LOTHIAN		
250585	032039.9	52.13	-2.82	344.1	248.1	7.6	0.03D	0.3	0.3	NR HEREFORD, HER & WOR		

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Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int	Comments...
250585	165757.7	49.81	-7.55	0.9	5.2	4.1	0.14D	2.1	2.1	SW OF SCILLY ISLES		
250585	173213.3	49.45	-7.74			5.0	0.10D	3.6	3.6	SW SCILLY ISLES		
270585	204950.9	52.96	-4.39	239.8	343.2	21.9	0.04A	0.8	0.8	LLEYN PENIN, NW WALES		
310585	052244.8	49.90	-7.50	5.0	14.4	0.0	0.14D	2.1	2.1	SW SCILLY ISLES		
010685	180242.5	57.05	-5.61	180.8	800.8	6.0	0.36C	1.7	1.7	NR LOCH NEVIS,HIGHLAND		
010685	224745.2	53.59	-0.39	506.6	411.4	8.7	0.36D	2.6	2.6	NR SCUNTHORPE		
020685	211437.4	55.24	-3.46	307.4	594.4	6.4	0.13B	1.0	1.0	ST ANN'S, DUMF&GA		
030685	030144.8	55.86	-3.11	330.5	663.5	0.2	0.04D	0.1	0.1	ROSEWELL, LOTHIAN		
040685	010101.1	55.87	-3.14	328.5	665.0	1.1	0.04C	-0.1	-0.1	ROSEWELL, LOTHIAN		
040685	074623.8	55.84	-4.90	218.7	664.7	5.1	0.01C	0.9	0.9	E OF ROTHESAY, ST'CLD		
060685	204730.0	55.85	-3.14	328.9	662.9	2.4	0.06B	0.9	0.9	ROSEWELL, LOTHIAN		
090685	020201.0	50.57	-5.27	168.3	79.2	2.3	0.06D	0.8	0.8	W OF TREVOSE HEAD,COR		
110685	033355.6	55.85	-3.13	329.4	662.9	0.1	0.02B	0.8	0.8	ROSEWELL, LOTHIAN		
130685	001124.9	55.86	-3.12	329.7	663.2	1.7	0.09B	0.6	0.6	ROSEWELL, LOTHIAN		
140685	030023.9	55.86	-3.13	329.3	663.5	3.0	0.08B	0.8	0.8	ROSEWELL, LOTHIAN		
140685	232342.6	55.86	-3.12	329.8	663.4	2.4	0.04B	0.6	0.6	ROSEWELL, LOTHIAN		
150685	013653.1	49.80	-7.51	3.6	3.6	2.0	0.14D	2.2	2.2	SW SCILLY ISLES		
150685	020759.8	49.80	-7.45	7.9	3.2	3.2	0.21D	2.0	2.0	SW SCILLY ISLES		
160685	120918.1	56.88	-5.19	205.9	780.6	7.7	0.41C	1.5	1.5	NR FORT WILLIAM,HIGH		
180685	181255.0	49.31	-7.38			4.0	0.30D	3.2	3.2	SW SCILLY ISLES		
190685	011556.2	55.87	-3.10	330.8	664.3	3.4	0.16B	0.9	0.9	BONNYRIGG, LOTHIAN		
190685	210621.2	57.36	-5.56	186.2	835.5	5.8	0.42D	0.7	0.7	LOCH CARRON,HIGH		
200685	003017.9	52.98	-4.43	237.1	344.9	24.1	0.03C	0.7	0.7	LLEYN PENIN, NW WALES		
200685	101455.9	55.86	-3.12	330.2	663.7	5.9	0.03B	0.8	0.8	ROSEWELL, LOTHIAN		
210685	105218.7	52.97	-4.40	238.6	343.8	22.7	0.01C	0.4	0.4	LLEYN PENIN, NW WALES		
210685	143246.1	55.86	-3.13	329.0	664.0	2.7	0.08C	0.8	0.8	ROSEWELL, LOTHIAN		
210685	200857.9	52.96	-4.38	240.3	343.4	23.2	0.02C	0.6	0.6	LLEYN PENIN, NW WALES		
220685	015931.5	55.87	-3.10	330.9	664.4	3.7	0.09B	0.7	0.7	BONNYRIGG, LOTHIAN	2+	FELT:BILSTON GLEN MINE
230685	084938.9	59.55	1.90			12.6	0.46D	1.8	1.8	NORTH SEA		
240685	035545.1	55.87	-3.11	330.5	664.4	6.3	0.03C	0.2	0.2	BONNYRIGG, LOTHIAN		
240685	234157.7	55.87	-3.13	329.4	664.4	2.5	0.13B	0.8	0.8	ROSEWELL, LOTHIAN		
250685	041154.8	55.85	-3.12	329.7	663.0	0.0	0.04D	0.1	0.1	ROSEWELL, LOTHIAN		
250685	111341.6	55.86	-3.12	329.6	663.6	2.9	0.10C	0.8	0.8	ROSEWELL, LOTHIAN		
260685	101534.3	55.85	-3.14	328.4	662.6	0.1	0.16B	0.9	0.9	ROSEWELL, LOTHIAN	2+	FELT UNDERGROUND
260685	145352.2	56.91	-4.91	222.7	783.6	5.0	0.62D	0.9	0.9	SPEAN BRIDGE, HIGH		
280685	043113.2	55.85	-3.12	329.6	662.9	0.2	0.17B	1.9	1.9	ROSEWELL, LOTHIAN	2+	FELT ROSEWELL.
280685	230432.6	55.86	-3.12	329.8	663.5	1.7	0.16B	0.9	0.9	BONNYRIGG, LOTHIAN		
300685	112052.5	50.05	-7.59	0.1	31.8	7.2	0.17D	2.3	2.3	W SCILLY ISLES		
300685	115027.8	49.96	-7.51	4.9	20.8	4.0	0.26D	1.8	1.8	W SCILLY ISLES		
300685	134939.6	55.85	-3.11	330.3	662.8	0.8	0.12B	1.3	1.3	ROSEWELL, LOTHIAN	2+	FELT ROSEWELL.
020785	004631.8	51.18	-2.61	357.7	142.3	9.0	0.14D	1.5	1.5	SHEPTON MALLET,SOMER		
060785	001607.4	55.87	-3.08	332.4	664.9	2.6	0.04C	-0.1	-0.1	ROSEWELL,LOTHIAN		
070785	201015.2	55.99	-4.15	265.9	679.5	11.6	0.11C	-0.1	-0.1	KILSYTH HILLS,CENTRAL		
090785	102955.8	55.30	-4.19	260.9	602.9	0.9	0.19D	0.8	0.8	CARSPHAIRN FRST,DUM&GA		
090785	121357.7	49.73	-7.40	10.9	-4.8	0.5	0.25D	2.1	2.1	S.W.SCILLY ISLES,CORNW		
120785	053716.8	52.97	-4.36	241.7	343.6	23.1	0.08A	0.5	0.5	LLEYN AFTERSHOCK		
140785	025054.3	50.37	-5.01	186.1	56.5	18.2	0.02C	0.9	0.9	S.E.NEWQUAY,CORNWALL		
140785	041051.1	51.71	-3.44	300.3	202.5	13.0	0.03D	0.9	0.9	ABERDARE,MID GLAMORGAN		
140785	103529.4	49.71	-7.53	1.2	-6.4	4.7	0.08D	2.3	2.3	S.W.SCILLY ISLES,CORNW		
140785	135704.1	52.98	-4.35	242.3	344.7	25.7	0.08B	0.2	0.2	LLEYN AFTERSHOCK		

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190785	033807.9	56.76	-6.37	133.2	771.2	2.9	0.15C	1.6		NR ISLE OF COLL,HIGH		
190785	215830.6	55.25	-3.30	317.3	595.5	2.4	0.16C	1.6		BORELAND,DUMF&GALLOWAY		
200785	003436.0	55.24	-3.27	319.6	594.8	4.8	0.09C	2.1		BORELAND,DUMF&GALLOWAY3+	FELT	JOHNSTONEBRIDGE
220785	044003.9	56.00	-5.18	201.8	683.4	2.6	0.16D	1.1		AUCHENBRECK,STRATH		
240785	112038.2	52.95	-4.30	245.8	341.9	22.7	0.08D	0.5		LLEYN PENIN, NW WALES		
240785	154221.6	55.86	-3.13	329.4	663.8	0.5	0.06B	0.7		ROSEWELL, LOTHIAN		
240785	192308.3	55.87	-3.12	330.0	664.5	1.3	0.11B	0.6		POLTON, LOTHIAN		
270785	220545.8	51.49	-1.03	467.5	177.6	1.1	0.31D	2.1		READING AREA, BERKS.		
290785	070156.8	57.06	-5.66	178.1	802.2	6.8	0.21C	1.8		KNOYDART,HIGHLAND		
010885	040113.6	55.87	-3.11	330.4	665.0	1.5	0.13B	0.8		POLTON, LOTHIAN		
010885	130227.4	56.11	-3.65	297.6	692.1	1.1	0.17C	1.3		DOLLAR, FIFE		
020885	121831.4	56.85	-4.86	225.5	776.3	12.7	0.10C	0.9		KILLIECHONATE FRST,HIG		
020885	171305.5	55.86	-3.11	330.3	663.5	0.1	0.07B	0.7		ROSEWELL, LOTHIAN		
020885	232315.0	55.86	-3.12	330.1	663.1	3.2	0.08B	0.8		ROSEWELL, LOTHIAN		
020885	232334.1	55.87	-3.07	333.1	664.9	7.5	0.08C	0.3		NEWTONGRANGE,LOTHIAN		
070885	070156.6	57.05	-5.59	182.4	801.6	2.6	0.18C	1.0		KNOYDART,HIGHLAND		
070885	203534.3	55.65	-3.05	334.2	640.0	9.2	0.08C	0.3		NR INNERLEITHEN,BORDER		
080885	052936.0	55.86	-3.11	330.5	663.7	2.5	0.19B	0.9		ROSEWELL, LOTHIAN		
080885	053358.1	55.83	-3.21	324.3	660.0	2.9	0.24C	0.0		PENICUIK, LOTHIAN		
090885	002852.5	55.87	-3.11	330.5	664.7	6.1	0.01C	0.0		ROSEWELL, LOTHIAN		
090885	030433.5	50.11	-5.16	173.8	28.3	5.9	0.03C-0.4			S.CONSTANTINE,CORNWALL		
090885	040924.6	50.12	-5.16	173.8	28.9	6.8	0.02C-0.6			S.CONSTANTINE,CORNWALL		
090885	044456.1	50.11	-5.16	173.8	28.1	5.9	0.03C-0.2			S.CONSTANTINE,CORNWALL		
090885	054239.2	50.11	-5.17	173.5	28.1	6.3	0.03C-0.1			S.CONSTANTINE,CORNWALL		
090885	054440.9	50.11	-5.16	173.9	28.3	5.8	0.04C	0.4		S.CONSTANTINE,CORNWALL		
100885	044623.7	55.86	-3.12	329.9	663.8	2.6	0.07D	0.3		ROSEWELL, LOTHIAN		
130885	060057.1	55.23	-3.33	315.2	593.3	3.4	0.02C	0.9		BORELAND,DUMF&GALLOWAY		
160885	024206.5	51.16	-4.74	208.6	143.9	0.5	0.08C	1.5		N.W.HARTLAND PT,DEVON		
160885	231114.4	50.12	-5.17	173.3	28.8	6.6	0.04C-0.5			S.CONSTANTINE,CORNWALL		
170885	060426.5	50.11	-5.17	173.4	28.6	6.6	0.03C-0.5			S.CONSTANTINE,CORNWALL		
170885	060645.0	50.11	-5.17	173.4	28.7	6.6	0.03C-0.5			S.CONSTANTINE,CORNWALL		
170885	060908.2	50.11	-5.17	173.4	28.5	6.6	0.03C-0.6			S.CONSTANTINE,CORNWALL		
190885	205103.0	55.86	-3.11	330.2	663.8	2.2	0.06C	0.6		ROSEWELL, LOTHIAN		
190885	211326.1	55.85	-3.11	330.7	662.9	2.4	0.07C	0.2		ROSEWELL, LOTHIAN		
200885	060020.7	55.86	-3.11	330.6	663.7	1.8	0.08C	0.8		ROSEWELL, LOTHIAN		
210885	032409.3	51.94	-3.23	315.5	227.1	15.4	0.08C	2.5		BLACK MOUNTAINS,POWYS		
210885	200311.1	55.86	-3.13	329.5	663.4	2.2	0.08B	0.7		ROSEWELL, LOTHIAN		
230885	171408.3	55.86	-3.12	329.8	663.7	1.0	0.10B	0.7		ROSEWELL, LOTHIAN	3+	FELT BILSTON GLEN PIT(U/G) DEPTH FIXED.
290885	032726.7	55.88	-3.23	323.4	665.6	0.1	0.15D	0.7		NR LOANHEAD,LOTHIAN		
290885	204356.8	55.85	-3.14	328.9	663.1	2.9	0.16C	0.1		ROSEWELL, LOTHIAN		
300885	205555.1	55.86	-3.13	329.5	663.2	0.4	0.07B	0.7		ROSEWELL, LOTHIAN		
310885	020612.2	55.85	-3.13	329.5	662.8	1.8	0.11B	0.8		ROSEWELL, LOTHIAN		
310885	152406.8	52.97	-4.40	238.8	344.4	23.5	0.01B	0.8		LLEYN PENIN, NW WALES		
020985	072651.6	55.86	-3.12	329.9	663.1	2.7	0.10C	0.6		ROSEWELL, LOTHIAN		
040985	021708.4	55.85	-3.12	329.9	663.0	1.1	0.13C	0.7		ROSEWELL, LOTHIAN		
050985	033651.5	55.86	-3.10	331.0	664.0	2.4	0.14B	0.7		POLTON, LOTHIAN		
050985	145637.1	53.04	-2.14	390.7	349.0	11.6	0.06D	1.5		LEEK, STAFFORDSHIRE		
050985	150104.6	53.36	-3.65	290.2	385.7	4.1	0.14C	2.1		N OF COLWYN BAY,CLWYD		
060985	172710.8	55.85	-3.12	329.9	662.8	0.0	0.10B	0.7		ROSEWELL, LOTHIAN		
070985	020431.2	52.96	-4.40	238.5	343.3	24.3	0.02C	0.5		LLEYN PENIN, NW WALES		



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090985	132719.7	55.85	-3.12	329.9	662.9	2.3	0.09B	0.8	ROSEWELL, LOTHIAN			
100985	033433.0	55.85	-3.11	330.5	662.2	4.0	0.21C	0.2	ROSEWELL, LOTHIAN			
100985	155500.9	55.86	-3.12	329.6	663.3	2.6	0.08B	0.7	ROSEWELL, LOTHIAN			
110985	181519.3	52.96	-4.38	240.1	343.3	20.7	0.06C	0.7	LLEYN PENIN, NW WALES			
120985	003005.8	50.37	-3.71	278.5	54.0	0.9	0.24D	1.8	W.DARTMOUTH,DEVON			
120985	003929.9	55.86	-3.11	330.2	663.6	2.8	0.04C	0.2	POLTON, LOTHIAN			
120985	015151.9	55.85	-3.14	328.9	662.1	0.7	0.14B	0.7	ROSEWELL, LOTHIAN			
120985	203336.4	55.85	-3.15	327.8	662.8	2.9	0.07D	0.1	ROSEWELL, LOTHIAN			
130985	043646.9	52.92	-4.16	254.8	338.4	19.3	0.42D	0.4	LLEYN PENIN, NW WALES			
140985	043752.0	55.86	-3.11	330.6	663.8	2.4	0.02C	0.7	POLTON, LOTHIAN			
160985	205014.3	56.04	-4.91	218.7	686.5	6.1	0.13B	3.5	ARDENTINNY,STRATHCLYDES			DUNOON EARTHQUAKE. FELT AREA=3,500 SQ KM
160985	205431.7	56.03	-4.87	221.5	686.0	4.1	0.37D	0.4	ARDENTINNY,STRATHCLYDE			DUNOON AFTERSHOCK
160985	215616.7	56.02	-4.81	224.8	684.8	2.4	0.16C	0.8	ARDENTINNY,STRATHCLYDE			DUNOON AFTERSHOCK
170985	114233.0	55.86	-3.12	329.9	663.7	1.5	0.07B	0.4	POLTON, LOTHIAN			
170985	130234.9	56.56	-5.39	191.7	745.6	8.4	0.29C	1.9	LISMORE, HIGHLAND			
180985	022939.9	52.97	-4.40	238.8	344.0	23.4	0.04B	1.4	LLEYN PENIN, NW WALES			
180985	051953.3	55.85	-3.14	328.9	663.0	3.2	0.19B	0.5	ROSEWELL, LOTHIAN			
180985	145135.1	53.79	-1.02	464.6	432.7	1.4	0.80D	2.4	YORK			
180985	224027.0	55.86	-3.11	330.2	663.6	2.5	0.04C	0.1	POLTON, LOTHIAN			
190985	054147.1	56.04	-4.81	225.1	686.8	3.2	0.33D	0.6	ARDENTINNY,STRATHCLYDE2+			DUNOON AFTERSHOCK
190985	120752.6	53.03	-4.56	228.5	350.7	38.9	0.23D	0.8	LLEYN PENIN, NW WALES			
200985	105906.8	55.86	-3.15	327.8	663.1	6.9	0.06B	0.3	ROSEWELL, LOTHIAN			
200985	150806.1	53.04	-1.97	402.3	349.1	5.0	0.38D	1.6	CHEADLE,STAFFS			
200985	161616.2	55.86	-3.11	330.2	663.5	2.5	0.07B	0.5	ROSEWELL, LOTHIAN			
200985	183058.1	55.86	-3.12	329.6	663.6	2.9	0.08B	0.6	POLTON, LOTHIAN			
250985	041755.9	56.92	-5.51	186.5	786.6	1.2	0.11D	0.9	NR GLENFINNAN, HIGH.			
260985	021813.1	55.87	-3.08	332.7	664.9	7.4	0.03C	0.1	POLTON, LOTHIAN			TIME FROM GEOSTORE CLOCK
260985	163952.3	55.86	-3.09	332.0	663.9	5.0	0.20C	0.3	POLTON, LOTHIAN			TIME FROM GEOSTORE CLOCK
260985	181520.6	53.14	-1.03	464.8	360.8	7.5	0.72D	1.1	NR MANSFIELD,NOTTS	2+		FELT MANSFIELD
270985	115950.9	52.63	-4.23	249.3	305.9	26.6	0.08D	1.4	SW OF BARMOUTH BAY			
270985	121734.1	56.62	-6.25	139.5	755.0	2.0	0.29C	1.1	W OF TOBERMORY, HIGH			
270985	161522.2	55.87	-3.09	331.7	665.2	7.5	0.04C	0.2	POLTON, LOTHIAN			
280985	031858.9	55.94	-3.03	335.6	672.4	17.1	0.00C	0.3	INVERESK, LOTHIAN			
280985	102255.5	56.11	-3.65	297.2	692.0	4.7	0.08C	0.6	SW OF SALINE, FIFE			
290985	050149.2	51.92	-2.91	337.7	225.4	5.0	0.01C	0.5	NR ABERGAVENNY,GWENT			
300985	144320.6	53.36	-1.79	414.1	384.6	1.9	0.10C	2.1	WHALEY BRIDGE,DERBY			
300985	155438.7	55.40	-4.07	268.9	614.2	0.2	0.39D	1.3	NEW CUMNOCK, ST'CLYDE			
011085	035336.0	55.87	-3.11	330.5	665.0	7.9	0.05C	0.2	POLTON, LOTHIAN			
021085	113702.6	55.84	-3.19	325.2	661.6	5.1	0.00C	0.4	PENICUIK, LOTHIAN			
021085	205348.4	53.02	-2.45	370.0	347.4	5.0	0.36D	1.5	NR CREWE,CHESHIRE			
031085	044607.9	52.96	-4.38	240.1	342.9	22.7	0.04B	1.3	LLEYN PENIN, NW WALES			
071085	091041.4	55.86	-3.12	329.6	664.1	5.0	0.08C	0.4	POLTON, LOTHIAN			
071085	152225.4	53.01	-1.95	403.5	346.4	2.4	0.15D	1.9	CHEADLE,STAFFS			
071085	171741.1	56.84	-2.86	347.8	771.8	0.0	0.35D	0.8	W OF EDZELL, TAYSIDE			
081085	023033.7	55.86	-3.17	326.9	663.2	2.9	0.09D	0.0	ROSEWELL, LOTHIAN			
081085	103138.8	55.87	-3.10	331.1	664.9	6.3	0.06C	0.1	POLTON, LOTHIAN			
161085	025511.9	53.49	-1.26	449.3	399.1	0.7	0.40D	1.9	MALTBY,SOUTH YORKSHIRE			
161085	050143.7	50.11	-5.14	175.3	28.4	6.9	0.04C-0.7		S.CONSTANTINE,CORNWALL			
161085	051256.6	55.87	-3.11	330.4	664.2	6.8	0.00C-0.1		POLTON, LOTHIAN			
161085	093853.0	50.12	-5.15	174.6	28.7	7.1	0.04C-0.5		S.CONSTANTINE,CORNWALL			

CATALOGUE OF EVENTS : 1985

Table 1 contd

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int	Comments...
171085	001435.9	57.44	-5.26	204.2	843.6	5.0	0.11C	1.4		ACHNASHELLACH,HIGHLAND		
171085	034840.7	50.12	-5.18	172.7	28.7	8.1	0.02C-0.7			S.CONSTANTINE,CORNWALL		
171085	034851.6	50.11	-5.16	174.4	28.6	6.4	0.03C-0.3			S.CONSTANTINE,CORNWALL		
171085	034937.0	50.11	-5.16	174.1	28.2	6.3	0.05C-0.1			S.CONSTANTINE,CORNWALL		
181085	195755.9	55.87	-3.09	331.6	665.1	7.5	0.03C	0.3		POLTON,LOTHIAN		
211085	052244.1	55.87	-3.10	331.3	664.8	7.4	0.02C	0.1		POLTON,LOTHIAN		
211085	154557.7	53.00	-1.82	411.9	344.8	1.4	0.48D	2.0		NEAR MAYFIELD,STAFFS		
221085	032241.6	55.87	-3.10	331.1	664.8	7.3	0.03C	0.1		POLTON,LOTHIAN		
251085	170007.9	53.91	-3.87	276.9	448.0	5.0	0.19C	2.0		IRISH SEA		
031185	134800.4	52.94	-3.49	299.9	338.7	6.6	0.16C	1.1		LLANDDERFEL,GWYNEDD		
031185	201219.7	52.95	-4.38	240.2	342.1	23.9	0.11B	1.2		LLEYN PENIN,NW WALES		
051185	221258.6	57.65	-5.64	183.0	868.5	10.0	0.58D	1.0		LOCH MAREE,HIGHLAND		
051185	221512.6	57.73	-5.59	186.5	876.6	2.4	0.43D	1.7		LOCH MAREE,HIGHLAND		
071185	182849.3	56.01	-4.75	228.3	683.4	0.0	0.29C	0.8		ARDENTINNY,STRATHCLYDE		DUNOON AFTERSHOCK?
111185	112205.3	51.45	-3.95	264.7	174.7	8.2	0.10C	1.5		BRISTOL CHANNEL		
111185	174918.4	55.86	-3.10	330.9	663.7	1.6	0.08C-0.2			POLTON,LOTHIAN		
121185	163214.7	56.34	-5.36	192.1	721.2	6.0	0.32D	1.1		SE OF OBAN,ST'CLYDE		
131185	182334.6	55.63	-3.16	326.7	637.6	4.4	0.20C	0.3		S OF PEEBLES,BORDERS		
141185	122636.3	50.12	-5.15	175.1	28.8	6.8	0.02C	0.3		E.CONSTANTINE,CORNWALL		
151185	162933.1	56.15	-4.02	274.2	697.0	3.6	0.07C	0.1		S OF DOUNE,CENTRAL		
151185	193243.9	50.12	-5.15	175.0	28.7	6.8	0.02C	0.0		SE.CONSTANTINE,CORNWALL		
161185	124552.0	50.11	-5.15	175.2	28.4	6.9	0.01C	0.1		SE.CONSTANTINE,CORNWALL		
161185	132933.2	50.12	-5.15	174.9	28.7	6.7	0.03C	0.0		SE.CONSTANTINE,CORNWALL		
161185	191115.6	53.82	-2.07	395.3	435.8	18.7	0.10B	2.6		HEBDEN BRIDGE,W YORK	4	FELT HEBDEN BG, MYTHOLM,BURNLEY RD,PRESS
181185	120332.5	52.18	-3.66	286.7	255.3	5.0	0.15D	1.0		ABERGSWYN,POWYS		
181185	134246.8	52.02	-0.97	470.8	236.3	11.1	0.16C	2.5		BUCKINGHAM,BUCKS		
181185	212902.6	55.88	-3.08	332.4	665.3	6.7	0.04C-0.1			POLTON,LOTHIAN		
201185	203228.8	56.12	-3.64	298.2	692.7	0.2	0.18C	1.7		W OF SALINE,FIFE		
221185	063259.9	53.45	-2.52	365.6	394.6	0.4	0.16C	1.9		GOLBORNE,MANCHESTER		
231185	150815.8	56.45	-4.93	219.5	732.7	0.3	0.35D	1.3		NR TYNDRUM,HIGHLAND		
261185	165903.3	55.85	-3.12	330.0	662.5	0.6	0.06B	0.9		ROSEWELL,LOTHIAN		
281185	184622.1	55.88	-3.15	328.4	666.2	5.4	0.10C	0.3		POLTON,LOTHIAN		
011285	171851.9	57.03	-5.77	171.1	799.7	4.2	0.20C	3.7		NR MALLAIG,HIGHLAND	4	
011285	225956.9	56.98	-5.98	158.2	794.7	15.0	0.68D	1.6		NR MALLAIG,HIGHLAND		
021285	133954.2	55.85	-3.47	307.9	663.0	6.6	0.15B	0.6		HARPERRIG RES,LOTHIAN		
021285	174032.7	51.28	-0.82	482.0	153.7	4.4	0.23C	2.7		FLEET,HAMPSHIRE		
031285	220306.7	55.24	-3.41	310.2	595.4	4.3	0.24C	0.7		JOHNSTONEBRIDGE,DUM&GA		
051285	150939.7	55.86	-3.11	330.4	663.3	3.6	0.09B	0.2		ROSEWELL,LOTHIAN		
071285	045636.1	50.11	-5.18	173.1	28.7	6.2	0.06C	0.3		S.CONSTANTINE,CORNWALL		
071285	084243.6	58.96	-8.52	25.2	1026.8	5.0	0.28D	2.6		NORTH OF ST KILDA		
081285	115828.2	51.65	-5.62	149.9	201.3	5.0	0.26D	1.4		ST GEORGES CHANNEL		
171285	152919.4	56.17	-4.66	234.9	700.2	2.9	0.61D	0.2		TARBET,STRATHCLYDE		
171285	152950.2	56.10	-5.18	202.6	694.5	0.1	0.26C	2.1		LOCH FYNE,STRATHCLYDE		
181285	153148.5	53.37	-1.77	415.5	385.6	0.2	0.46C	2.1		CHAPEL EN LE FRITH,DER		
181285	174549.7	53.37	-4.67	222.1	389.0	12.4	0.03C	0.6		HOLYHEAD BAY,GWYNEDD		
211285	034252.2	50.23	-4.93	191.1	40.3	2.7	0.11C	1.9		N.W.VERYAN,CORNWALL		
211285	163323.6	50.40	-5.75	133.4	62.5	1.0	0.17D	1.4		NW OF ST IVES,CORNWALL		
261285	230109.3	55.86	-3.12	329.8	663.2	5.7	0.06C	0.0		ROSEWELL,LOTHIAN		
271285	024202.6	52.96	-4.43	237.1	343.0	22.9	0.09C	1.8		LLEYN PENIN,NW WALES		
291285	231141.0	55.70	-3.32	317.0	646.0	0.0	0.09C-0.5			MOUNTAIN CROSS,BORDERS		VERY SMALL LOCAL,ON LIMIT OF DETECTION.

CATALOGUE OF EVENTS : 1985

Table 1 contd

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int Comments...
311285	042750.6	55.85	-3.19	325.2	662.3	6.4	0.01C	0.1	AUCHENDINNY,LOTHIAN		

CATALOGUE OF EVENTS : 1985

Table 2

Events by latitude

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS q	Mag	Locality	Int Comments...
230685	084938.9	59.55	1.90			12.6	0.46D	1.8	NORTH SEA	
071285	084243.6	58.96	-8.52	25.2	1026.8	5.0	0.28D	2.6	NORTH OF ST KILDA	
230185	222723.6	58.77	1.67			9.4	0.90D	1.9	NORTH SEA	
051185	221512.6	57.73	-5.59	186.5	876.6	2.4	0.43D	1.7	LOCH MAREE, HIGHLAND	
060285	004648.3	57.66	-5.52	190.3	868.7	15.0	0.22D	1.0	LOCH MAREE, HIGHLAND	
051185	221258.6	57.65	-5.64	183.0	868.5	10.0	0.58D	1.0	LOCH MAREE, HIGHLAND	
110485	110926.8	57.60	-3.14	331.8	857.8	0.2	0.40D	1.4	SE OF ELGIN, GRAMPIAN	
171085	001435.9	57.44	-5.26	204.2	843.6	5.0	0.11C	1.4	ACHNASHELLACH, HIGHLAND	
190685	210621.2	57.36	-5.56	186.2	835.5	5.8	0.42D	0.7	LOCH CARRON, HIGH	
040185	032732.5	57.32	-5.57	185.2	831.2	13.6	0.08D	0.0	NR PLOCKTON, HIGHLAND	
230585	032901.1	57.24	-5.79	171.2	822.6	7.5	0.32D	1.1	NR KYLEAKIN, HIGHLAND	
020585	185843.8	57.17	-4.56	245.3	811.6	5.0	0.34D	0.9	LOCH NESS, HIGHLAND	
290785	070156.8	57.06	-5.66	178.1	802.2	6.8	0.21C	1.8	KNOYDART, HIGHLAND	
010185	001656.1	57.05	-5.77	171.1	801.7	11.9	0.09C	0.9	NR MALLAIG, HIGHLAND	
010685	180242.5	57.05	-5.61	180.8	800.8	6.0	0.36C	1.7	NR LOCH NEVIS, HIGHLAND	
070885	070156.6	57.05	-5.59	182.4	801.6	2.6	0.18C	1.0	KNOYDART, HIGHLAND	
011285	171851.9	57.03	-5.77	171.1	799.7	4.2	0.20C	3.7	NR MALLAIG, HIGHLAND	4
180485	182855.9	57.01	-4.77	232.1	794.3	0.0	0.29D	1.4	E OF LOCH LOCHY, HIGH.	
280185	180247.6	57.00	-5.74	173.1	796.1	11.6	0.26C	1.4	NR MALLAIG, HIGHLAND	
080485	044720.7	56.99	-5.54	185.1	794.4	3.2	0.15C	2.3	LOCH NEVIS, HIGHLAND	
080485	180108.4	56.98	-5.58	182.5	792.9	5.4	0.18D	1.3	LOCH MORAR, HIGHLAND	
011285	225956.9	56.98	-5.98	158.2	794.7	15.0	0.68D	1.6	NR MALLAIG, HIGHLAND	
250985	041755.9	56.92	-5.51	186.5	786.6	1.2	0.11D	0.9	NR GLENFINNAN, HIGH.	
260685	145352.2	56.91	-4.91	222.7	783.6	5.0	0.62D	0.9	SPEAN BRIDGE, HIGH	
250385	104337.9	56.88	-5.20	204.8	781.0	8.6	0.45C	1.0	FORT WILLIAM, HIGHLAND	
160685	120918.1	56.88	-5.19	205.9	780.6	7.7	0.41C	1.5	NR FORT WILLIAM, HIGH	
060185	140843.3	56.86	-6.10	149.8	781.8	6.4	0.11C	0.8	EIGG, HIGHLAND	
020885	121831.4	56.85	-4.86	225.5	776.3	12.7	0.10C	0.9	KILLIECHONATE FRST, HIGH	
071085	171741.1	56.84	-2.86	347.8	771.8	0.0	0.35D	0.8	W OF EDZELL, TAYSIDE	
220585	120938.0	56.82	-5.15	207.7	774.4	1.0	0.27D	1.2	NR FORT WILLIAM	
190785	033807.9	56.76	-6.37	133.2	771.2	2.9	0.15C	1.6	NR ISLE OF COLL, HIGH	
270985	121734.1	56.62	-6.25	139.5	755.0	2.0	0.29C	1.1	W OF TOBERMORY, HIGH	
170985	130234.9	56.56	-5.39	191.7	745.6	8.4	0.29C	1.9	LISMORE, HIGHLAND	
231185	150815.8	56.45	-4.93	219.5	732.7	0.3	0.35D	1.3	NR TYNDRUM, HIGHLAND	
121185	163214.7	56.34	-5.36	192.1	721.2	6.0	0.32D	1.1	SE OF OBAN, ST'CLYDE	
100385	011730.4	56.26	-3.72	293.6	708.6	7.8	0.14B	1.7	OCHIL HILLS, TAYSIDE	
040285	061616.3	56.25	-3.72	293.3	707.5	3.4	0.09B	1.6	OCHIL HILLS, TAYSIDE	
050285	000637.3	56.25	-3.72	293.3	707.7	3.0	0.02B	0.7	OCHIL HILLS, TAYSIDE	
150385	110214.6	56.25	-3.73	292.7	707.4	3.5	0.16C	0.5	OCHIL HILLS, TAYSIDE	
290485	052246.1	56.24	-3.75	291.8	707.2	3.1	0.10C	0.6	GLEN DEVON, TAYSIDE	
171285	152919.4	56.17	-4.66	234.9	700.2	2.9	0.61D	0.2	TARBET, STRATHCLYDE	
151185	162933.1	56.15	-4.02	274.2	697.0	3.6	0.07C	0.1	S OF DOUNE, CENTRAL	
201185	203228.8	56.12	-3.64	298.2	692.7	0.2	0.18C	1.7	W OF SALINE, FIFE	
010885	130227.4	56.11	-3.65	297.6	692.1	1.1	0.17C	1.3	DOLLAR, FIFE	
280985	102255.5	56.11	-3.65	297.2	692.0	4.7	0.08C	0.6	SW OF SALINE, FIFE	
171285	152950.2	56.10	-5.18	202.6	694.5	0.1	0.26C	2.1	LOCH FYNE, STRATHCLYDE	
160985	205014.3	56.04	-4.91	218.7	686.5	6.1	0.13B	3.5	ARDENTINNY, STRATHCLYDE5	DUNOON EARTHQUAKE. FELT AREA=3,500 SQ KM
190985	054147.1	56.04	-4.81	225.1	686.8	3.2	0.33D	0.6	ARDENTINNY, STRATHCLYDE2+	DUNOON AFTERSHOCK
160985	205431.7	56.03	-4.87	221.5	686.0	4.1	0.37D	0.4	ARDENTINNY, STRATHCLYDE	DUNOON AFTERSHOCK
160985	215616.7	56.02	-4.81	224.8	684.8	2.4	0.16C	0.8	ARDENTINNY, STRATHCLYDE	DUNOON AFTERSHOCK

CATALOGUE OF EVENTS : 1985

Table 2 contd

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int	Comments...
071185	182849.3	56.01	-4.75	228.3	683.4	0.0	0.29C	0.8		ARDENTINNY, STRATHCLYDE		DUNOON AFTERSHOCK?
220785	044003.9	56.00	-5.18	201.8	683.4	2.6	0.16D	1.1		AUCHENBRECK, STRATH		
070785	201015.2	55.99	-4.15	265.9	679.5	11.6	0.11C	-0.1		KILSYTH HILLS, CENTRAL		
280985	031858.9	55.94	-3.03	335.6	672.4	17.1	0.00C	0.3		INVERESK, LOTHIAN		
270285	024731.5	55.92	-3.09	332.0	670.6	0.9	0.02B	1.3		DANDERHALL, LOTHIAN		
110485	081346.7	55.89	-5.94	153.5	673.6	5.0	0.31D	2.0		JURA, STRATHCLYDE		
040485	211015.9	55.88	-3.10	331.3	665.4	7.7	0.01C	0.7		POLTON, LOTHIAN		
290885	032726.7	55.88	-3.23	323.4	665.6	0.1	0.15D	0.7		NR LOANHEAD, LOTHIAN		
181185	212902.6	55.88	-3.08	332.4	665.3	6.7	0.04C	-0.1		POLTON, LOTHIAN		
281185	184622.1	55.88	-3.15	328.4	666.2	5.4	0.10C	0.3		POLTON, LOTHIAN		
040685	010101.1	55.87	-3.14	328.5	665.0	1.1	0.04C	-0.1		ROSEWELL, LOTHIAN		
190685	011556.2	55.87	-3.10	330.8	664.3	3.4	0.16B	0.9		BONNYRIGG, LOTHIAN		
220685	015931.5	55.87	-3.10	330.9	664.4	3.7	0.09B	0.7		BONNYRIGG, LOTHIAN	2+	FELT: BILSTON GLEN MINE
240685	035545.1	55.87	-3.11	330.5	664.4	6.3	0.03C	0.2		BONNYRIGG, LOTHIAN		
240685	234157.7	55.87	-3.13	329.4	664.4	2.5	0.13B	0.8		ROSEWELL, LOTHIAN		
060785	001607.4	55.87	-3.08	332.4	664.9	2.6	0.04C	-0.1		ROSEWELL, LOTHIAN		
240785	192308.3	55.87	-3.12	330.0	664.5	1.3	0.11B	0.6		POLTON, LOTHIAN		
010885	040113.6	55.87	-3.11	330.4	665.0	1.5	0.13B	0.8		POLTON, LOTHIAN		
020885	232334.1	55.87	-3.07	333.1	664.9	7.5	0.08C	0.3		NEWTONGRANGE, LOTHIAN		
090885	002852.5	55.87	-3.11	330.5	664.7	6.1	0.01C	0.0		ROSEWELL, LOTHIAN		
260985	021813.1	55.87	-3.08	332.7	664.9	7.4	0.03C	0.1		POLTON, LOTHIAN		TIME FROM GEOSTORE CLOCK
270985	161522.2	55.87	-3.09	331.7	665.2	7.5	0.04C	0.2		POLTON, LOTHIAN		
011085	035336.0	55.87	-3.11	330.5	665.0	7.9	0.05C	0.2		POLTON, LOTHIAN		
081085	103138.8	55.87	-3.10	331.1	664.9	6.3	0.06C	0.1		POLTON, LOTHIAN		
161085	051256.6	55.87	-3.11	330.4	664.2	6.8	0.00C	-0.1		POLTON, LOTHIAN		
181085	195755.9	55.87	-3.09	331.6	665.1	7.5	0.03C	0.3		POLTON, LOTHIAN		
211085	052244.1	55.87	-3.10	331.3	664.8	7.4	0.02C	0.1		POLTON, LOTHIAN		
221085	032241.6	55.87	-3.10	331.1	664.8	7.3	0.03C	0.1		POLTON, LOTHIAN		
020385	211730.3	55.86	-3.13	329.4	663.6	1.9	0.04B	0.8		ROSEWELL, LOTHIAN		
060385	223931.9	55.86	-3.12	329.6	663.6	2.6	0.09C	0.6		ROSEWELL, LOTHIAN		
130385	024513.3	55.86	-3.12	329.9	663.3	0.2	0.06B	0.7		ROSEWELL, LOTHIAN		
150385	200037.7	55.86	-3.12	329.8	663.7	3.6	0.10C	0.6		ROSEWELL, LOTHIAN		
190385	014823.8	55.86	-3.12	329.9	663.6	2.1	0.08C	0.4		ROSEWELL, LOTHIAN		
240385	104541.0	55.86	-3.08	332.2	663.9	8.1	0.02C	0.2		ROSEWELL, LOTHIAN		
100485	001943.3	55.86	-3.11	330.2	663.6	1.0	0.10C	0.0		ROSEWELL, LOTHIAN		
260485	155736.3	55.86	-3.12	329.9	663.3	2.3	0.07B	1.0		ROSEWELL, LOTHIAN		
020585	025238.7	55.86	-3.12	329.6	663.3	0.5	0.12B	0.8		ROSEWELL, LOTHIAN		
020585	133453.1	55.86	-3.13	329.2	663.1	1.8	0.08C	0.9		ROSEWELL, LOTHIAN		
090585	041940.6	55.86	-3.11	330.3	663.5	2.0	0.07C	0.9		ROSEWELL, LOTHIAN		
250585	025934.3	55.86	-3.11	330.6	663.8	1.5	0.10B	0.3		POLTON, LOTHIAN		
030685	030144.8	55.86	-3.11	330.5	663.5	0.2	0.04D	0.1		ROSEWELL, LOTHIAN		
130685	001124.9	55.86	-3.12	329.7	663.2	1.7	0.09B	0.6		ROSEWELL, LOTHIAN		
140685	030023.9	55.86	-3.13	329.3	663.5	3.0	0.08B	0.8		ROSEWELL, LOTHIAN		
140685	232342.6	55.86	-3.12	329.8	663.4	2.4	0.04B	0.6		ROSEWELL, LOTHIAN		
200685	101455.9	55.86	-3.12	330.2	663.7	5.9	0.03B	0.8		ROSEWELL, LOTHIAN		
210685	143246.1	55.86	-3.13	329.0	664.0	2.7	0.08C	0.8		ROSEWELL, LOTHIAN		
250685	111341.6	55.86	-3.12	329.6	663.6	2.9	0.10C	0.8		ROSEWELL, LOTHIAN		
280685	230432.6	55.86	-3.12	329.8	663.5	1.7	0.16B	0.9		BONNYRIGG, LOTHIAN		
240785	154221.6	55.86	-3.13	329.4	663.8	0.5	0.06B	0.7		ROSEWELL, LOTHIAN		
020885	171305.5	55.86	-3.11	330.3	663.5	0.1	0.07B	0.7		ROSEWELL, LOTHIAN		



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Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int	Comments...
020885	232315.0	55.86	-3.12	330.1	663.1	3.2	0.08B	0.8	ROSEWELL,	LOTHIAN		
080885	052936.0	55.86	-3.11	330.5	663.7	2.5	0.19B	0.9	ROSEWELL,	LOTHIAN		
100885	044623.7	55.86	-3.12	329.9	663.8	2.6	0.07D	0.3	ROSEWELL,	LOTHIAN		
190885	205103.0	55.86	-3.11	330.2	663.8	2.2	0.06C	0.6	ROSEWELL,	LOTHIAN		
200885	060020.7	55.86	-3.11	330.6	663.7	1.8	0.08C	0.8	ROSEWELL,	LOTHIAN		
210885	200311.1	55.86	-3.13	329.5	663.4	2.2	0.08B	0.7	ROSEWELL,	LOTHIAN		
230885	171408.3	55.86	-3.12	329.8	663.7	1.0	0.10B	0.7	ROSEWELL,	LOTHIAN	3+	FELT BILSTON GLEN PIT(U/G) DEPTH FIXED.
300885	205555.1	55.86	-3.13	329.5	663.2	0.4	0.07B	0.7	ROSEWELL,	LOTHIAN		
020985	072651.6	55.86	-3.12	329.9	663.1	2.7	0.10C	0.6	ROSEWELL,	LOTHIAN		
050985	033651.5	55.86	-3.10	331.0	664.0	2.4	0.14B	0.7	POLTON,	LOTHIAN		
100985	155500.9	55.86	-3.12	329.6	663.3	2.6	0.08B	0.7	ROSEWELL,	LOTHIAN		
120985	003929.9	55.86	-3.11	330.2	663.6	2.8	0.04C	0.2	POLTON,	LOTHIAN		
140985	043752.0	55.86	-3.11	330.6	663.8	2.4	0.02C	0.7	POLTON,	LOTHIAN		
170985	114233.0	55.86	-3.12	329.9	663.7	1.5	0.07B	0.4	POLTON,	LOTHIAN		
180985	224027.0	55.86	-3.11	330.2	663.6	2.5	0.04C	0.1	POLTON,	LOTHIAN		
200985	105906.8	55.86	-3.15	327.8	663.1	6.9	0.06B	0.3	ROSEWELL,	LOTHIAN		
200985	161616.2	55.86	-3.11	330.2	663.5	2.5	0.07B	0.5	ROSEWELL,	LOTHIAN		
200985	183058.1	55.86	-3.12	329.6	663.6	2.9	0.08B	0.6	POLTON,	LOTHIAN		
260985	163952.3	55.86	-3.09	332.0	663.9	5.0	0.20C	0.3	POLTON,	LOTHIAN		TIME FROM GEOSTORE CLOCK
071085	091041.4	55.86	-3.12	329.6	664.1	5.0	0.08C	0.4	POLTON,	LOTHIAN		
081085	023033.7	55.86	-3.17	326.9	663.2	2.9	0.09D	0.0	ROSEWELL,	LOTHIAN		
111185	174918.4	55.86	-3.10	330.9	663.7	1.6	0.08C	0.2	POLTON,	LOTHIAN		
051285	150939.7	55.86	-3.11	330.4	663.3	3.6	0.09B	0.2	ROSEWELL,	LOTHIAN		
261285	230109.3	55.86	-3.12	329.8	663.2	5.7	0.06C	0.0	ROSEWELL,	LOTHIAN		
120185	025003.8	55.85	-3.13	329.4	662.3	2.0	0.16B	0.8	ROSEWELL,	LOTHIAN		
200385	030216.7	55.85	-3.12	329.7	662.6	0.1	0.01C	0.5	ROSEWELL,	LOTHIAN	2+	FELT BILSTON PIT, BUMP & BROKEN GIRDER
090485	183849.0	55.85	-5.99	150.4	669.2	5.0	0.45D	2.4	JURA,	STRATHCLYDE		
300485	191417.9	55.85	-3.12	329.7	662.7	0.4	0.07B	1.0	ROSEWELL,	LOTHIAN		
060685	204730.0	55.85	-3.14	328.9	662.9	2.4	0.06B	0.9	ROSEWELL,	LOTHIAN		
110685	033355.6	55.85	-3.13	329.4	662.9	0.1	0.02B	0.8	ROSEWELL,	LOTHIAN		
250685	041154.8	55.85	-3.12	329.7	663.0	0.0	0.04D	0.1	ROSEWELL,	LOTHIAN		
260685	101534.3	55.85	-3.14	328.4	662.6	0.1	0.16B	0.9	ROSEWELL,	LOTHIAN	2+	FELT UNDERGROUND
280685	043113.2	55.85	-3.12	329.6	662.9	0.2	0.17B	1.9	ROSEWELL,	LOTHIAN	2+	FELT ROSEWELL.
300685	134939.6	55.85	-3.11	330.3	662.8	0.8	0.12B	1.3	ROSEWELL,	LOTHIAN	2+	FELT ROSEWELL.
190885	211326.1	55.85	-3.11	330.7	662.9	2.4	0.07C	0.2	ROSEWELL,	LOTHIAN		
290885	204356.8	55.85	-3.14	328.9	663.1	2.9	0.16C	0.1	ROSEWELL,	LOTHIAN		
310885	020612.2	55.85	-3.13	329.5	662.8	1.8	0.11B	0.8	ROSEWELL,	LOTHIAN		
040985	021708.4	55.85	-3.12	329.9	663.0	1.1	0.13C	0.7	ROSEWELL,	LOTHIAN		
060985	172710.8	55.85	-3.12	329.9	662.8	0.0	0.10B	0.7	ROSEWELL,	LOTHIAN		
090985	132719.7	55.85	-3.12	329.9	662.9	2.3	0.09B	0.8	ROSEWELL,	LOTHIAN		
100985	033433.0	55.85	-3.11	330.5	662.2	4.0	0.21C	0.2	ROSEWELL,	LOTHIAN		
120985	015151.9	55.85	-3.14	328.9	662.1	0.7	0.14B	0.7	ROSEWELL,	LOTHIAN		
120985	203336.4	55.85	-3.15	327.8	662.8	2.9	0.07D	0.1	ROSEWELL,	LOTHIAN		
180985	051953.3	55.85	-3.14	328.9	663.0	3.2	0.19B	0.5	ROSEWELL,	LOTHIAN		
261185	165903.3	55.85	-3.12	330.0	662.5	0.6	0.06B	0.9	ROSEWELL,	LOTHIAN		
021285	133954.2	55.85	-3.47	307.9	663.0	6.6	0.15B	0.6	HARPERRIG RES,	LOTHIAN		
311285	042750.6	55.85	-3.19	325.2	662.3	6.4	0.01C	0.1	AUCHENDINNY,	LOTHIAN		
130485	095221.0	55.84	-3.15	328.0	661.7	0.5	0.22B	0.8	ROSEWELL,	LOTHIAN		
040685	074623.8	55.84	-4.90	218.7	664.7	5.1	0.01C	0.9	E OF ROTHESAY,	ST'CLD		
021085	113702.6	55.84	-3.19	325.2	661.6	5.1	0.00C	0.4	PENICUIK,	LOTHIAN		

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Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int	Comments...
080885	053358.1	55.83	-3.21	324.3	660.0	2.9	0.24C	0.0		PENICUIK, LOTHIAN		
291285	231141.0	55.70	-3.32	317.0	646.0	0.0	0.09C	-0.5		MOUNTAIN CROSS, BORDERS		VERY SMALL LOCAL, ON LIMIT OF DETECTION.
260385	221131.6	55.66	-2.30	381.2	640.6	8.6	0.26D	1.0		NR COLDSTREAM, BORDERS		POSSIBLE QUARRY, BUT UNUSUAL TIME
070885	203534.3	55.65	-3.05	334.2	640.0	9.2	0.08C	0.3		NR INNERLEITHEN, BORDER		
131185	182334.6	55.63	-3.16	326.7	637.6	4.4	0.20C	0.3		S OF PEBBLES, BORDERS		
200285	211218.1	55.56	-4.89	217.9	633.0	8.3	0.35D	1.3		FIRTH OF CLYDE		
220585	153131.7	55.41	-3.27	319.8	613.4	1.0	0.53D	0.7		NE OF MOFFAT, DUMF&GA		
300985	155438.7	55.40	-4.07	268.9	614.2	0.2	0.39D	1.3		NEW CUMNOCK, ST'CLYDE		
100185	092529.7	55.33	-2.99	337.4	604.6	10.8	0.07B	0.7		TEVIOHEAD, DUMF & GA		
090785	102955.8	55.30	-4.19	260.9	602.9	0.9	0.19D	0.8		CARSPHAIRN FRST, DUM&GA		
190785	215830.6	55.25	-3.30	317.3	595.5	2.4	0.16C	1.6		BORELAND, DUMF&GALLOWAY		
020685	211437.4	55.24	-3.46	307.4	594.4	6.4	0.13B	1.0		ST ANN'S, DUMF&GA		
200785	003436.0	55.24	-3.27	319.6	594.8	4.8	0.09C	2.1		BORELAND, DUMF&GALLOWAY	3+	FELT JOHNSTONEBRIDGE
031285	220306.7	55.24	-3.41	310.2	595.4	4.3	0.24C	0.7		JOHNSTONEBRIDGE, DUM&GA		
130885	060057.1	55.23	-3.33	315.2	593.3	3.4	0.02C	0.9		BORELAND, DUMF&GALLOWAY		
110485	215949.7	55.11	-3.46	306.6	580.7	3.0	0.32D	0.9		N OF LOCHMABEN, DUMF&GA		
040285	150134.9	54.43	-2.33	378.5	504.5	5.1	0.14D	1.7		NR KIRKBY STEPHEN, CUMB		
251085	170007.9	53.91	-3.87	276.9	448.0	5.0	0.19C	2.0		IRISH SEA		
161185	191115.6	53.82	-2.07	395.3	435.8	18.7	0.10B	2.6		HEBDEN BRIDGE, W YORK	4	FELT HEBDEN BG, MYTHOLM, BURNLEY RD, PRESS
180985	145135.1	53.79	-1.02	464.6	432.7	1.4	0.80D	2.4		YORK		
010685	224745.2	53.59	-0.39	506.6	411.4	8.7	0.36D	2.6		NR SCUNTHORPE		
161085	025511.9	53.49	-1.26	449.3	399.1	0.7	0.40D	1.9		MALTBY, SOUTH YORKSHIRE		
221185	063259.9	53.45	-2.52	365.6	394.6	0.4	0.16C	1.9		GOLBORNE, MANCHESTER		
181285	153148.5	53.37	-1.77	415.5	385.6	0.2	0.46C	2.1		CHAPEL EN LE FRITH, DER		
181285	174549.7	53.37	-4.67	222.1	389.0	12.4	0.03C	0.6		HOLYHEAD BAY, GWYNEDD		
050985	150104.6	53.36	-3.65	290.2	385.7	4.1	0.14C	2.1		N OF COLWYN BAY, CLWYD		
300985	144320.6	53.36	-1.79	414.1	384.6	1.9	0.10C	2.1		WHALEY BRIDGE, DERBY		
260985	181520.6	53.14	-1.03	464.8	360.8	7.5	0.72D	1.1		NR MANSFIELD, NOTTS	2+	FELT MANSFIELD
070185	010747.9	53.07	-4.36	242.0	355.1	24.7	0.36C	0.2		LLEYN PENIN, NW WALES		
190485	144502.6	53.04	-1.83	411.3	349.2	4.5	0.15D	1.5		SWINCOE, STAFFS		
050985	145637.1	53.04	-2.14	390.7	349.0	11.6	0.06D	1.5		LEEK, STAFFORDSHIRE		
200985	150806.1	53.04	-1.97	402.3	349.1	5.0	0.38D	1.6		CHEADLE, STAFFS		
190985	120752.6	53.03	-4.56	228.5	350.7	38.9	0.23D	0.8		LLEYN PENIN, NW WALES		
021085	205348.4	53.02	-2.45	370.0	347.4	5.0	0.36D	1.5		NR CREWE, CHESHIRE		
071085	152225.4	53.01	-1.95	403.5	346.4	2.4	0.15D	1.9		CHEADLE, STAFFS		
211085	154557.7	53.00	-1.82	411.9	344.8	1.4	0.48D	2.0		NEAR MAYFIELD, STAFFS		
200685	003017.9	52.98	-4.43	237.1	344.9	24.1	0.03C	0.7		LLEYN PENIN, NW WALES		
140785	135704.1	52.98	-4.35	242.3	344.7	25.7	0.08B	0.2		LLEYN AFTERSHOCK		
040185	021519.7	52.97	-4.40	238.9	344.0	22.1	0.04A	2.3		LLEYN PENIN, NW WALES		
060185	225347.5	52.97	-4.39	239.6	343.7	23.1	0.06A	0.8		LLEYN PENIN, NW WALES		
070185	180237.7	52.97	-4.40	238.9	344.2	22.7	0.04A	0.7		LLEYN PENIN, NW WALES		
070185	195734.4	52.97	-4.41	237.9	344.4	21.5	0.06A	-0.1		LLEYN PENIN, NW WALES		
210185	222619.8	52.97	-4.40	238.7	344.5	22.2	0.02B	0.2		LLEYN PENIN, NW WALES		
140385	190025.6	52.97	-4.40	238.8	344.3	22.6	0.04B	1.1		LLEYN PENIN, NW WALES		
240385	032546.9	52.97	-4.39	239.3	344.0	22.3	0.05A	1.9		LLEYN PENIN, NW WALES		
030485	152234.6	52.97	-4.40	239.7	344.6	22.6	0.06A	0.6		LLEYN PENIN, NW WALES		
040485	195112.5	52.97	-4.40	238.9	344.2	23.1	0.05A	1.2		LLEYN PENIN, NW WALES		
040485	195144.7	52.97	-4.40	238.7	344.4	22.6	0.08A	1.2		LLEYN PENIN, NW WALES		
070485	193357.3	52.97	-4.40	238.5	344.3	23.0	0.07A	0.5		LLEYN PENIN, NW WALES		
010585	022643.4	52.97	-4.39	239.3	344.3	23.3	0.08A	0.9		LLEYN PENIN, NW WALES		

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Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS q	Mag	Locality	Int Comments...
100585	081453.3	52.97	-4.41	238.3	344.1	21.9	0.06A	0.8	LLEYN PENIN, NW WALES	
210685	105218.7	52.97	-4.40	238.6	343.8	22.7	0.01C	0.4	LLEYN PENIN, NW WALES	
120785	053716.8	52.97	-4.36	241.7	343.6	23.1	0.08A	0.5	LLEYN AFTERSHOCK	
310885	152406.8	52.97	-4.40	238.8	344.4	23.5	0.01B	0.8	LLEYN PENIN, NW WALES	
180985	022939.9	52.97	-4.40	238.8	344.0	23.4	0.04B	1.4	LLEYN PENIN, NW WALES	
040185	091821.8	52.96	-4.40	238.8	343.4	22.5	0.05A	0.2	LLEYN PENIN, NW WALES	
120185	200435.8	52.96	-4.37	241.0	343.1	23.2	0.08A	0.5	LLEYN PENIN, NW WALES	
160185	004951.6	52.96	-4.38	240.2	343.5	21.3	0.07B	0.2	LLEYN PENIN, NW WALES	
200185	101027.7	52.96	-4.38	240.0	343.4	22.2	0.04B	0.3	LLEYN PENIN, NW WALES	
240185	132518.1	52.96	-4.38	239.9	342.9	21.2	0.04B	1.3	LLEYN PENIN, NW WALES	
270185	011421.7	52.96	-4.41	238.4	343.3	22.7	0.04B	0.4	LLEYN PENIN, NW WALES	
300185	204442.7	52.96	-4.39	239.8	343.1	24.5	0.18B	0.5	LLEYN PENIN, NW WALES	
300185	233140.4	52.96	-4.39	239.6	343.4	21.8	0.08A	1.4	LLEYN PENIN, NW WALES	
030285	012611.9	52.96	-4.39	239.8	343.4	22.7	0.04B	0.2	LLEYN PENIN, NW WALES	
060285	233635.5	52.96	-4.41	238.0	342.8	20.6	0.09B	0.6	LLEYN PENIN, NW WALES	
090385	235200.5	52.96	-4.36	241.2	343.3	21.1	0.09A	1.1	LLEYN PENIN, NW WALES	
200385	101129.8	52.96	-4.39	239.8	343.1	19.3	0.09B	0.7	LLEYN PENIN, NW WALES	
250485	014019.2	52.96	-4.38	240.3	343.4	22.6	0.05A	0.7	LLEYN PENIN, NW WALES	
050585	214349.1	52.96	-4.39	239.7	342.8	21.2	0.09B	0.6	LLEYN PENIN, NW WALES	
140585	202651.6	52.96	-4.39	239.8	343.4	23.4	0.06A	1.1	LLEYN PENIN, NW WALES	
240585	004753.4	52.96	-4.38	240.3	343.0	22.6	0.07B	0.8	LLEYN PENIN, NW WALES	
270585	204950.9	52.96	-4.39	239.8	343.2	21.9	0.04A	0.8	LLEYN PENIN, NW WALES	
210685	200857.9	52.96	-4.38	240.3	343.4	23.2	0.02C	0.6	LLEYN PENIN, NW WALES	
070985	020431.2	52.96	-4.40	238.5	343.3	24.3	0.02C	0.5	LLEYN PENIN, NW WALES	
110985	181519.3	52.96	-4.38	240.1	343.3	20.7	0.06C	0.7	LLEYN PENIN, NW WALES	
031085	044607.9	52.96	-4.38	240.1	342.9	22.7	0.04B	1.3	LLEYN PENIN, NW WALES	
271285	024202.6	52.96	-4.43	237.1	343.0	22.9	0.09C	1.8	LLEYN PENIN, NW WALES	
040185	084723.6	52.95	-4.38	239.9	342.3	20.0	0.43C	0.6	LLEYN PENIN, NW WALES	
240785	112038.2	52.95	-4.30	245.8	341.9	22.7	0.08D	0.5	LLEYN PENIN, NW WALES	
031185	201219.7	52.95	-4.38	240.2	342.1	23.9	0.11B	1.2	LLEYN PENIN, NW WALES	
031185	134800.4	52.94	-3.49	299.9	338.7	6.6	0.16C	1.1	LLANDDERFEL, GWYNEDD	
130985	043646.9	52.92	-4.16	254.8	338.4	19.3	0.42D	0.4	LLEYN PENIN, NW WALES	
050385	115541.3	52.91	-4.27	247.6	337.1	23.6	0.54C	0.6	LLEYN PENIN, NW WALES	
230385	190025.1	52.71	-4.01	264.2	314.3	12.7	0.08C	1.2	E OF BARMOUTH, GWYNEDD	
270985	115950.9	52.63	-4.23	249.3	305.9	26.6	0.08D	1.4	SW OF BARMOUTH BAY	
060185	171329.2	52.23	-1.58	428.6	259.2	4.0	0.23C	1.6	WASPERTON, WARWICKSHIRE	
181185	120332.5	52.18	-3.66	286.7	255.3	5.0	0.15D	1.0	ABERGSWYN, POWYS	
250585	032039.9	52.13	-2.82	344.1	248.1	7.6	0.03D	0.3	NR HEREFORD, HER & WOR	
010585	081729.6	52.04	-3.27	312.9	238.2	16.7	0.05B	0.9	NR BRECON, POWYS	
181185	134246.8	52.02	-0.97	470.8	236.3	11.1	0.16C	2.5	BUCKINGHAM, BUCKS	
230585	231334.2	52.00	-3.43	302.0	234.4	14.3	0.12C	0.7	NR BRECON, POWYS	
210885	032409.3	51.94	-3.23	315.5	227.1	15.4	0.08C	2.5	BLACK MOUNTAINS, POWYS	
290985	050149.2	51.92	-2.91	337.7	225.4	5.0	0.01C	0.5	NR ABERGAVENNY, GWENT	
100185	124649.6	51.88	-5.00	193.6	224.1	1.1	0.24D	1.4	NR HAVERFORDWEST, DYFED	
140785	041051.1	51.71	-3.44	300.3	202.5	13.0	0.03D	0.9	ABERDARE, MID GLAMORGAN	
081285	115828.2	51.65	-5.62	149.9	201.3	5.0	0.26D	1.4	ST GEORGES CHANNEL	
180585	225806.3	51.59	-3.10	323.7	188.5	18.1	0.05C	0.8	NEWPORT GWENT	
270785	220545.8	51.49	-1.03	467.5	177.6	1.1	0.31D	2.1	READING AREA, BERKS.	
111185	112205.3	51.45	-3.95	264.7	174.7	8.2	0.10C	1.5	BRISTOL CHANNEL	
150485	190209.5	51.43	1.56	647.5	175.6	1.5	0.30D	3.0	OFFSHORE RAMSGATE	

CATALOGUE OF EVENTS : 1985

Table 2 contd

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int	Comments...
021285	174032.7	51.28	-0.82	482.0	153.7	4.4	0.23C	2.7	FLEET,HAMPSHIRE			
020785	004631.8	51.18	-2.61	357.7	142.3	9.0	0.14D	1.5	SHEPTON MALLET,SOMER			
160885	024206.5	51.16	-4.74	208.6	143.9	0.5	0.08C	1.5	N.W.HARTLAND PT,DEVON			
020485	204343.9	50.79	-4.91	194.6	102.8	7.3	0.17C	1.2	N OF TINTAGEL,CORNWALL			
200485	212745.9	50.66	-5.19	174.6	89.0	5.0	0.08C	1.6	NW OF TREVOSE HEAD,COR			
180485	044029.9	50.65	-5.16	176.3	87.8	5.0	0.19D	1.3	NW OF TREVOSE HEAD,COR			
200485	234256.2	50.65	-5.17	175.8	88.0	4.4	0.02D	1.1	NW OF TREVOSE HEAD,COR			
250485	133201.3	50.65	-5.31	166.1	88.8	4.0	0.30D	1.6	NW OF TREVOSE HEAD,COR			
210485	142530.4	50.62	-5.11	180.1	84.2	7.8	0.29D	1.1	NW OF TREVOSE HEAD,COR			
030585	005825.2	50.60	-5.30	166.9	83.4	8.7	0.04D	1.6	NW TREVOSE HEAD,CORN			
090685	020201.0	50.57	-5.27	168.3	79.2	2.3	0.06D	0.8	W OF TREVOSE HEAD,COR			
130285	145105.9	50.52	-5.51	151.4	74.5	9.5	0.04D	1.1	W.TREVOSE HEAD,CORNWAL			
211285	163323.6	50.40	-5.75	133.4	62.5	1.0	0.17D	1.4	NW OF ST IVES,CORNWALL			
110185	222904.8	50.39	-4.22	242.2	57.1	5.0	0.31D	0.9	TORPOINT,DEVON			
140785	025054.3	50.37	-5.01	186.1	56.5	18.2	0.02C	0.9	S.E.NEWQUAY,CORNWALL			
120985	003005.8	50.37	-3.71	278.5	54.0	0.9	0.24D	1.8	W.DARTMOUTH,DEVON			
211285	034252.2	50.23	-4.93	191.1	40.3	2.7	0.11C	1.9	N.W.VERYAN,CORNWALL			
090885	040924.6	50.12	-5.16	173.8	28.9	6.8	0.02C-0.6		S.CONSTANTINE,CORNWALL			
160885	231114.4	50.12	-5.17	173.3	28.8	6.6	0.04C-0.5		S.CONSTANTINE,CORNWALL			
161085	093853.0	50.12	-5.15	174.6	28.7	7.1	0.04C-0.5		S.CONSTANTINE,CORNWALL			
171085	034840.7	50.12	-5.18	172.7	28.7	8.1	0.02C-0.7		S.CONSTANTINE,CORNWALL			
141185	122636.3	50.12	-5.15	175.1	28.8	6.8	0.02C 0.3		E.CONSTANTINE,CORNWALL			
151185	193243.9	50.12	-5.15	175.0	28.7	6.8	0.02C 0.0		SE.CONSTANTINE,CORNWAL			
161185	132933.2	50.12	-5.15	174.9	28.7	6.7	0.03C 0.0		SE.CONSTANTINE,CORNWAL			
260385	005517.3	50.11	-5.17	173.6	27.9	5.3	0.04B-0.6		S.CONSTANTINE,CORN			
090885	030433.5	50.11	-5.16	173.8	28.3	5.9	0.03C-0.4		S.CONSTANTINE,CORNWALL			
090885	044456.1	50.11	-5.16	173.8	28.1	5.9	0.03C-0.2		S.CONSTANTINE,CORNWALL			
090885	054239.2	50.11	-5.17	173.5	28.1	6.3	0.03C-0.1		S.CONSTANTINE,CORNWALL			
090885	054440.9	50.11	-5.16	173.9	28.3	5.8	0.04C 0.4		S.CONSTANTINE,CORNWALL			
170885	060426.5	50.11	-5.17	173.4	28.6	6.6	0.03C-0.5		S.CONSTANTINE,CORNWALL			
170885	060645.0	50.11	-5.17	173.4	28.7	6.6	0.03C-0.5		S.CONSTANTINE,CORNWALL			
170885	060908.2	50.11	-5.17	173.4	28.5	6.6	0.03C-0.6		S.CONSTANTINE,CORNWALL			
161085	050143.7	50.11	-5.14	175.3	28.4	6.9	0.04C-0.7		S.CONSTANTINE,CORNWALL			
171085	034851.6	50.11	-5.16	174.4	28.6	6.4	0.03C-0.3		S.CONSTANTINE,CORNWALL			
171085	034937.0	50.11	-5.16	174.1	28.2	6.3	0.05C-0.1		S.CONSTANTINE,CORNWALL			
161185	124552.0	50.11	-5.15	175.2	28.4	6.9	0.01C 0.1		SE.CONSTANTINE,CORNWAL			
071285	045636.1	50.11	-5.18	173.1	28.7	6.2	0.06C 0.3		S.CONSTANTINE,CORNWALL			
300685	112052.5	50.05	-7.59	0.1	31.8	7.2	0.17D 2.3		W SCILLY ISLES			
010285	145145.7	50.03	-7.67			5.0	0.31D 2.0		SW SCILLY ISLES			
300685	115027.8	49.96	-7.51	4.9	20.8	4.0	0.26D 1.8		W SCILLY ISLES			
310585	052244.8	49.90	-7.50	5.0	14.4	0.0	0.14D 2.1		SW SCILLY ISLES			
260185	144219.6	49.86	-7.54	1.7	10.1	4.0	0.26D 2.2		SW SCILLY ISLES			
250585	165757.7	49.81	-7.55	0.9	5.2	4.1	0.14D 2.1		SW OF SCILLY ISLES			
150685	013653.1	49.80	-7.51	3.6	3.6	2.0	0.14D 2.2		SW SCILLY ISLES			
150685	020759.8	49.80	-7.45	7.9	3.2	3.2	0.21D 2.0		SW SCILLY ISLES			
090785	121357.7	49.73	-7.40	10.9	-4.8	0.5	0.25D 2.1		S.W.SCILLY ISLES,CORNW			
140785	103529.4	49.71	-7.53	1.2	-6.4	4.7	0.08D 2.3		S.W.SCILLY ISLES,CORNW			
220185	183954.8	49.67	-7.45			1.2	0.15D 2.3		SW SCILLY ISLES			
220185	150119.0	49.49	-7.36			5.0	0.33D 2.4		SW SCILLY ISLES			
250585	173213.3	49.45	-7.74			5.0	0.10D 3.6		SW SCILLY ISLES			

CATALOGUE OF EVENTS : 1985

Table 2 contd

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int	Comments...
180685	181255.0	49.31	-7.38			4.0	0.30D		3.2	SW SCILLY ISLES		



Table 3

## CATALOGUE OF EVENTS : 1985

Poorly located events

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int	Comments...
020185	2030									SONIC-N ENGLAND		F.ALNWICK,BRAMPTON,ESK.RAF BOULMER.PRESS
210185	173513.9	50.26	-3.94	261.6	41.7	0.3	0.18D	1.7		SE OF RAME HEAD		POSSIBLE UNDERWATER EXPLOSION.
230185	131507.4	56.20	-4.68	233.7	704.4	2.5	0.13D	1.8		LOCH LOMOND		POSSIBLE EXPLOSION.
300185	141405.2	51.36	-2.39	372.6	162.6	0.1	0.25D	1.1		BATH,AVON		POSSIBLY QUARRY
300185	1608									SONIC-GT.YARMOUTH		SONIC BOOM FELT/HEARD GT. YARMOUTH
230285	0950									SONIC?- SE ENGLAND		REPORTS KENT COASTAL AREAS,E ANGLIA
250285	163157.0	49.28	-1.87			12.9	0.10D	1.2		NE OF JERSEY		
090385	160659.9	49.29	-1.95			5.9	0.06C	0.1		NE OF JERSEY		
110385	1540									SONIC, NORTHUMBERLAND		
260385	221122.4	55.34	-1.66	421.4	605.2	0.0	0.16C	1.3		AMBLE,MINE DISPOSAL		S ARRIVALS ALMOST ABSENT
030485	074908.8	56.64	-5.64	176.8	755.9	7.7	0.41D	2.0		MORVERN, HIGHLAND		POSSIBLE QUARRY
050485	130148.1	56.39	-2.94	342.1	722.8	0.6	0.13C			FIFE QUARRY?		
120485	0300									WATFORD-SONIC?		FELT/HEARD 04:00 ish BST
120485	1100									SONIC - CORNWALL		2 SONIC BOOMS REPORTED FELT, PRESS INTER
120485	0827									SONIC - WASH/ANGLIA		FELT/HEARD
180485	0015									STOKE - FELT	2+	FELT LONGTON. NOT RECORDED ON NEAREST ST
190485	0905									ABERYSTWYTH-SONIC?		FELT 10:05 & 10:15, 1 OBS, CAMBRIAN N.
190485	162339.2	51.13	-2.35	375.8	137.2	15.0	0.76D	1.6		MENDIP HILLS (Q?)		
250485	133644.1	51.24	-2.48	366.8	149.2	8.9	0.01C	1.5		MENDIP HILLS (Q?)		
270485	2026									KINTAIL,SMALL EVENT		RECORDED BY TWO STATIONS
070585	190355.3	56.56	-5.65	175.7	746.8	0.2	0.24C	1.7		LOCH TEARNAIT, HIGH		POSSIBLE QUARRY
090585	0436									HARPERRIG,LOTHIAN?		PICKED UP BY AUCHINOON
100585	095505.1	49.24	-3.94			4.0	0.77D	1.9		135 KM E JERSEY		
020685	164807.9	55.05	-1.23	449.3	573.6	0.3	0.31D	1.4		OFF S.SHIELDS EXPLOSN		
060685	1747									DEAL, KENT		TEN FELT REPORTS TO DEAL POLICE.
090685	183953.2	56.48	-5.55	181.5	737.6	2.6	0.18C	1.2		LISMORE, STRATHCLYDE		POSSIBLY GLENSANDA QUARRY
130685	1528									E.ANGLIAN SONIC		SONIC BOOM REPORTED FELT AT E.ANGLIA UNI
240685	081829.0	54.91	-5.35	185.5	562.7	1.1	0.28D	2.0		NORTH CHANNEL		PROBABLE UNDERWATER EXPLOSION.
250685	124847.0	49.26	-2.16			5.2	0.07C			RONEZ QUARRY? JERSEY		
290685	171815.2	56.57	-5.48	186.1	747.8	0.6	0.28D	1.2		LOCH LINNHE, HIGH		POSSIBLY GLENSANDA QUARRY
080785	1540									SONIC -ORKNEY (SANDAY)		ENQUIRY RUDLOW/LONDON, NOT ON MORAY/SHET
120785	000217.8	49.48	-2.14			4.0	0.15D	0.7		N. JERSEY		
200785	035455.8	57.01	-5.69	176.0	797.0	5.0	0.20C	0.4		LOCH NEVIS,HIGHLAND		ONLY TWO STATIONS RECORDED THIS EVENT
280785	193116.8	56.58	-5.62	177.4	748.7	5.0	0.37D	1.4		LOCH TEARNAIT,HIGHLAND		POSSIBLE QUARRY
300785										SONIC/EQ STONEHAVEN		
300785	185902.8	56.50	-5.48	185.6	739.5	0.1	0.21D	1.1		LISMORE,STRATHCLYDE		POSSIBLY GLENSANDA QUARRY
300785	185903.0	56.50	-5.48	186.0	739.8	0.6	0.21D	0.9		LISMORE, STRATHCLYDE		POSSIBLE QUARRY
050885	191328.1	56.57	-5.61	178.0	747.3	3.3	0.25D	0.9		LOCH NAN CLACH,HIGH		POSSIBLE QUARRY
180885	180152.4	56.49	-5.51	184.0	739.0	0.0	0.43D	1.1		LISMORE,STRATHCLYDE		POSSIBLY GLENSANDA QUARRY
010985	0752									ARROCHAR AREA?		RECORDED BY ONE STATION ONLY
030985	105448.2	54.78	-6.60	104.2	552.7	12.4	0.28D	2.1		NORTHERN IRELAND		PROBABLE LARGE QUARRY BLAST
080985	174950.9	55.57	-4.18	262.5	632.3	5.0	0.63D	0.4		NW OF MUIRKIRK, ST'CLD		POSSIBLE QUARRY
080985	175141.5	56.56	-5.43	189.2	746.6	0.1	0.29D	1.1		LISMORE, STRATHCLYDE		POSSIBLY GLENSANDA QUARRY
180985	070725.5	56.01	-4.72	230.6	683.1	0.0	0.25C-0.3			POSSIBLE DUNOON A/S		RECORDED BY TWO STATIONS ONLY
180985	122646.5	53.79	-8.18	-6.8	449.9	5.0	0.84D	2.3		ROSCOMMON,EIRE		POSSIBLY A LARGE QUARRY BLAST.
210985	140950.8	56.16	-4.61	237.9	699.7	1.6	0.21C-0.3			POSSIBLE DUNOON A/S		
240985	1221									SONIC EVENT,FORTH AREA		FELT FROM CARNOUSTIE TO EYEMOUTH.
250985	064750.7	51.50	-2.36	375.2	178.0	5.0	0.84D	0.9		AVON		POSSIBLE QUARRY?
250985	1341									POSSIBLE DUNOON A/S		RECORDED BY ONE STATION ONLY
011085	2139									POSSIBLE DUNOON A/S		ONLY ONE STATION RECORDED THIS EVENT

CATALOGUE OF EVENTS : 1985

Table 3 contd

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	RMS	q	Mag	Locality	Int	Comments...
021085	1446									POSSIBLE DUNOON A/S		ONLY RECORDED BY ONE STATION
171085	131919.4	56.43	-5.14	206.6	730.7	0.1	0.24D	1.6		BEN CRUACHAN,S'CLYDE		POSSIBLE QUARRY
061185	114704.3	54.82	-5.84	153.1	554.0	5.0	0.27D	2.7		NORTH CHAN (EXP?)		PROBABLE UNDERWATER EXPLOSION
081185	111040.2	58.41	-3.30	323.9	948.0	1.2	0.35D	0.9		LATHERON,HIGHLAND		PROBABLE QUARRY BLAST.
091185	112950.2	56.53	-5.68	173.8	743.5	3.6	0.91D	1.7		MORVERN,HIGHLAND		POSSIBLY GLENSANDA QUARRY
111185	152429.9	51.24	-2.43	370.1	148.8	2.5	0.23C	1.2		SOUTH OF BATH		POSSIBLE QUARRY ?
121185	1642									POSS QUARRY/DUNOON A/S		RECORDED BY ONE STATION ONLY
131185	1517			394.0	477.0					BUCKDEN,N YORKS-SONIC		SONIC EVENT.DAMAGE CAUSED.
161185	0036									POSSIBLE DUNOON A/S		ONLY RECORDED BY ONE STATION
201185	0607									POSSIBLE DUNOON A/S		ONLY RECORDED BY ONE STATION
031285	155205.7	56.59	-5.32	196.0	749.4	0.0	0.65D	1.7		APPIN,STRATHCLYDE		POSSIBLY GLENSANDA QUARRY
081285	150624.0	56.63	-5.84	164.3	754.9	0.4	0.44D	1.6		LOCH TEACUIS, HIGHLAND		POSSIBLE QUARRY
081285	163853.9	56.57	-5.47	187.1	746.8	0.0	0.35D	1.6		APPIN,STRATHCLYDE		POSSIBLY GLENSANDA QUARRY.

Table 4 : Geographical coordinates of seismograph stations operated by BGS, DIAS and Leeds University during 1985.

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
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 *	53.7424	-1.0668	461.54	427.76	13	85-	1	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
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
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
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
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	CHARWOOD 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
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
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
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
JVM	VALLE D.L.MARE	49.2169	-2.2068			64	81-	1	BGS

Table 4 : continued

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
LEU	LEICS. UNIV.	52.6238	-1.1223	459.41	303.30	76	81-	1	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
MDO	DOCHFOUR	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
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
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

Table 4 : continued

DLE LYONS ESTATE	53.2872	-6.5436			140	80-	3R	DIAS
DKM 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

\* The coordinates of this station have been revised since the publication of the last catalogue.

Agency codes:

BGS	British Geological Survey
DIAS	Dublin Institute of Advanced Studies
LDS	University of Leeds

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.

## KEY TO PHASE DATA ENCODING FORMAT

### General description:

The format of the phase data presented here was originally designed to allow direct entry onto a computer coding sheet, of measurements taken from a seismogram generated using a magnetic tape for recording. This system is described by Browitt (1979).

Each line is coded according to the flag in column 80. Lines with 1, 2 or 3 in column 80 give epicentral details; those with a blank in column 80 contain phase information.

### Epicentral details (1,2 or 3 in column 80):

.	1	2	3	4	5	6	7	8
1234567890123456789012345678901234567890123456789012345678901234567890								
DyMoYrNetwork....Tape..SLoc...EventSec.. Ccor DekReader.TLocality.....1								
HrMnSe:c. Grid:e./Grid:n. Dep:h M:l B:* M:b M:s Io. Lat:...N Lon:...E								2
Comments.....RMS= ERH= ERZ= Q=								3
CodeCoHrMnSec1..Amp1.CP1QIUsec2..Amp2.CP2QIUamp.CPer.MtAmp.CPer.MtJetpAmodPDist								
1234567890123456789012345678901234567890123456789012345678901234567890								

### Line 1

DyMoYr :Event date...Day, Month, Year.  
 Network :Name of network, eg LOWNET.  
 Tape :Analogue tape number on which event is recorded eg LN123.  
 S :Tape side when two sided recording selected eg 1 or 2.  
 Loc :Tape footage of event eg 1200.  
 Event :Event number on that tape eg 20.  
 Sec :Second length of jet-pen payout in mm, eg 12.  
 Ccor :Seconds error of internal clock (absolute minus clock time) eg -0.23.  
 Dek :Gain of replay deck eg 5.0.  
 Reader :Name of analyst.  
 T :Event type. Earthquake.. L=Local, R=Regional, T=Teleseism, E=unknown  
     Explosion... Q=Quarry, D=up to 10deg, A=further than 10deg  
     U=Unknown, S=Sonic  
 Locality :Closest generally known place or area, followed by region.

### Line 2 ( : in field indicates decimal point)

HrMnSe:c :Hours, minutes and seconds of the origin time.  
 Grid:e./ :Kilometres east and north of the National grid origin.  
 Grid:n  
 Dep:h :Depth of event in kilometres.  
     (valid for A and possibly B quality events).  
 M:l :Richter local magnitude obtained from the method described  
     in the Manual of Seismological Observatory Practice (MSOP).  
 B:\* :MB\* ,An approximation to MB as determined using stations  
     at closer ranges (paragraph 3.3.2 in MSOP).  
 M:b :Body wave magnitude determined using the method described in MSOP.  
 M:s :Surface wave magnitude determined using the method described in MSOP.  
 Io :Maximum MSK intensity. 2+ indicates felt, no macroseismic details.  
     3+, 4+ etc indicates felt at MSK 3 or 4, but no survey carried out.  
     3,4,5 etc describes the maximum MSK intensity produced by the event  
 Lat:... :Latitude of event in degrees and decimal degrees, positive is north  
 N : (N) North or (S) South. Only inserted if no Lat sign convention +/-  
     is in use.

Lon:... :Longitude of event in degrees and decimal degrees, negative is west  
E : (E) East or (W) West. Only inserted if no Lon sign convention +/-  
is in use.

### Line 3

Comments : Descriptive remarks about felt area and other items of interest.  
RMS and Q : See catalogue format (para 2.1, page 1).  
ERH & ERZ : Standard errors in epicentre and focal depth.

### Phase data (column 80 blank):

Code :Station code eg EAB.  
Co :Component, Z=Vertical, NS=North-South, EW= East-West.  
HrMn :Time datum, Hours and Minutes for phase arrivals. -1 in Hr column  
indicates the end of the event.  
Sec1 :Seconds to the first arrival. For local events this is either PN  
or PG. Subsequent P arrivals are not usually read as the location  
program HYPO71 does not require them.  
Amp1 :Trace amplitude (mm) of first motion of this arrival, for 3-component  
set.  
C :Amp1 is H: half peak-peak, C: centre-peak, F or blank: peak-peak  
A: log(ground amplitude in millimicrons)  
P1 :Phase, normally P (= PN or PG) but any MSOB code possible.  
Q :HYPO weighting factor to arrival. 0 or blank= full weighting to  
4= zero weighting (ignore). 9= use P-S interval only for this line.  
I :I=Impulsive (onset read better than 0.1s) or E=emergent (worse than 0.1s)  
U :U=First motion up/compression or D=down/dilation.  
Sec2..Amp2.CP2QIU: As for first arrival, but usually referring to S phase(SN,SG)  
Amp :Trace amplitude in millimetres at the relevant part of the phase train  
for the magnitude type indicated in Mt.  
ML: largest amplitude in trace, MB\*: Maximum in P-phase.  
MB: Maximum in first 25 seconds,MS: Rayleigh phase (Z,long period)  
M : Equivalent to ML, but not used in the magnitude calculation.  
C :As previous  
Per :Period (secs) of Amp.  
Mt :Magnitude type... ML ,B\*, MB, MS.  
Amp.CPer.Mt: As previous  
Jetp :Jet pen sensitivity in volts/cm used on playout eg 0.25,1.0,2.5,10.0  
Amod :Amplifier-modulator gain. Normally 100, 200, 400. Low-gain devices  
usually have a gain of 4.  
P :If there is a polarity reversal in the system, this column=1.  
Dist :Distance in kilometres to event from station.

PHASE DATA : 1985

Table 5

010185	01656.07	171.13/ 801.72	11.9	0.9		NR MALLAIG, HIGHLAND	1	
						57.050 -5.774	2	
					RMS= 0.09 ERH= 0.0 ERZ= 0.0 Q= C		3	
KAR Z 001659.5	P						15	
KSB Z 0016		65.0	S	2			28	
MDD Z 001672.0	P 2	83.0	S	3	3.0 HO.12ML	0.25 200	96	
-1								
040185	21519.72	238.85/ 344.02	22.1	2.3		LLEYN PENIN, NW WALES	1	
						52.969 -4.400	2	
					RMS= 0.04 ERH= 0.3 ERZ= 0.3 Q= A		3	
YMY Z 021523.36	P 11025.57		S				5	
YMY NS0215					9.0 HO.03M-	10.0 100	5	
YMY EW0215					9.5 HO.04M-	10.0 100	5	
YPE Z 021523.38	P 11025.48		S	2E			2	
YTR Z 021523.74	P 110						8	
YYN Z 021524.28	P 11U						14	
YBA Z 021526.30	P 2E						33	
YDW Z 021524.74	P 1EU28.22		S	3E			22	
YRE Z 021526.29	P E						5	
YCL Z 021523.52	P 110						5	
YBE Z 021525.38	P 11U						27	
YLL Z 021525.10	P E						23	
YNE Z 021523.55	P 110						9	
YRH Z 021524.73	P 110						24	
ESK Z 021557.62	P 4 84.42		S	4			272	
ESK NS0215					2.3 HO.22ML	1.0 200	272	
ESK EW0215					2.1 HO.22ML	1.0 200	272	
-1								
040185	32732.53	185.24/ 831.25	13.6	0.0		NR PLOCKTON, HIGHLAND	1	
						57.321 -5.567	2	
					RMS= 0.08 ERH= 2.6 ERZ= 4.3 Q= D		3	
MDD Z 0327		51.0	S	3			74	
MVH Z 0327		62.5	S	3			107	
KYL Z 032735.05	P	37.1	S	2			5	
KAC Z 032737.5	P	41.1	S	1	5.5 HO.1 ML	0.25 200	26	
-1								
040185	84723.63	239.93/ 342.32	20.0	0.6	5.0	LLEYN PENIN, NW WALES	1	
						52.954 -4.383	2	
					RMS= 0.43 ERH= 2.6 ERZ= 2.4 Q= C		3	
YMY Z 084726.29	P 10						3	
YMY SM0847					2.65HO.05ML	0.25 4.0	3	
YPE Z 084726.3	P 1028.82		S	1E			2	
YTR Z 084726.66	P 10						9	
YDW Z 084728.67	P 1032.25		S	1E			24	
YRE Z 084727.31	P 1029.91		S	2E			4	
YRE NS0847					10.0HO.11ML	1.0 100	4	
YRE EW0847					11.4HO.06ML	1.0 100	4	
YCL Z 084727.44	P 1030.2		S	2E			7	
YBE Z 084729.29	P 2E						29	
YLL Z 084729.00	P E						25	
YNE Z 084727.48	P 10						8	
YNA Z 084728.6	P 31U						20	
YRH Z 084728.65	P 11U						21	
YFF Z 084729.25	P 3E 33.04		S	2E			24	
-1								
040185	91821.77	238.76/ 343.36	22.5	0.2	5.0	LLEYN PENIN, NW WALES	1	
						52.963 -4.401	2	
					RMS= 0.05 ERH= 0.4 ERZ= 0.4 Q= A		3	
YMY Z 091825.47	P 10						3	
YMY NS0918					8.6 HO.05ML	1.0 100	3	
YMY EW0918					5.5 HO.04ML	1.0 100	3	
YPE Z 091825.48	P 11028.11		S	2E			3	
YPE NS0918					8.75HO.05ML	1.0 100	3	
YPE EW0918					4.0 HO.06ML	1.0 100	3	
YTR Z 091825.84	P 10						10	
YDW Z 091826.91	P 2E 30.55		S	1E			22	
YDW NS0918					5.1 HO.04ML	1.0 100	22	
YDW EW0918					3.0 HO.03ML	1.0 100	22	
YRE Z 091825.54	P 2E028.19		S	3E			3	
YRE NS0918					11.4HO.13ML	0.25 100	3	
YRE EW0918					16.0HO.09ML	0.25 100	3	
YCL Z 0918		28.17	S	3E			5	
YNE Z 091825.64	P 1028.17		S	3E			7	
YNA Z 091826.67	P 11U						21	
YRH Z 091826.74	P 21U						22	
YFF Z 091827.43	P 2E 31.07		S	3E			26	
-1								
060185	14 843.32	149.83/ 781.79	6.4	0.8		EIGG, HIGHLAND	1	
						56.860 -6.105	2	
					RMS= 0.11 ERH= 2.2 ERZ= 1.0 Q= C		3	
KAR Z 140846.9	P						18	
KSB Z 140853.0	P 1	60.2	S	2			57	
KAC Z 1408		70.7	S	3			86	
MVH Z 1408		91.5	S	3			166	
MCD Z 1408		97.0	S	4			190	
MCD NS1408					1.0 HO.1 ML	0.25 200	190	
MCD EW1408					1.0 HO.1 ML	0.25 200	190	
EAB Z 140904.8	P 1EU19.8		S	3E			132	
ELO Z 140907.4	P 2E 25.6		S	3E			153	
-1								
060185	BIRMINGHAM BM 18	171329.22	428.62/ 259.20	5.0	1.6	JAR	WASPINGTON, WARWICKSHIRE	1
							52.230 -1.581	2



## PHASE DATA : 1985

BFR Z 171335.90	P IU40.65	S 2	RMS= 0.23	ERH= 1.3	ERZ= 1.6	Q= C	3
BBR Z 171337.01	P ID42.36	S 2	15.6HO.07ML		1.0	200	36
BZD Z 171337.39	P I 43.56	S 2	4.2HO.15ML		1.0	200	44
BSE Z 171339.03	P E 46.21	S 2	7.5HO.07ML		1.0	200	47
HAE Z 171341.14	P ID47.22	S 4E					56
HLM Z 171344.94	P ED56.24	S 2E					70
MCH Z 171345.84	P EU57.93	S 2E					95
MCH NS1713			10.8HO.11ML		1.0	200	101
MCH EW1713			9.4HO.09ML		1.0	200	101
HGH Z 171346.92	P 2ED58.33	S 4E					107
HTR Z 171348.32	P 2E 62.06	S 2E					117
S8D Z 171352.28	P 2E 68.03	S 2E					136
HCG Z 171352.92	P 2E 69.77	S 3E					142
-1							
060185	225347.48	239.64/ 343.66	23.1	0.8	5.0	LLEYN PENIN, NW WALES	1
						52.966 -4.388	2
YMY Z 225351.29	P 2IU53.76	S 3E	RMS= 0.06	ERH= 0.4	ERZ= 0.3	Q= A	3
YMY NS2253			15.5HO.05ML		2.5	100	3
YMY EW2253			12.1HO.06ML		2.5	100	3
YPE Z 225351.3	P IU53.85	S 1E					3
YTR Z 225351.62	P UD						10
YYN Z 225352.13	P E						16
YDW Z 225352.63	P 1E 56.25	S 1E					22
YDW NS2253			6.75HO.04ML		1.0	100	22
YDW EW2253			7.4 HO.04ML		1.0	100	22
YRE Z 225351.3	P IU53.99	S 1E					3
YCL Z 225351.65	P 2E						5
YBE Z 225353.32	P 1IU						27
YLL Z 225352.87	P 1IU						24
YUC Z 225351.5	P 1I						7
YNE Z 225351.46	P 1IU						8
YNA Z 225352.53	P 1IU						21
YRH Z 225352.65	P IU						22
YFF Z 225352.06	P 1I056.84	S 1E					25
YFF NS2253			12.5HO.05ML		1.0	100	25
YFF EW2253			10.5HO.06ML		1.0	100	25
-1							
070185	1 747.90	241.97/ 355.05	24.7	0.2	5.0	LLEYN PENIN, NW WALES	1
						53.069 -4.359	2
YMY Z 010752.67	P I055.22	S 1E	RMS= 0.36	ERH= 2.7	ERZ= 2.1	Q= C	3
YPE Z 010752.69	P 1I055.21	S 1E					5
YPE NS0107			10.0HO.05ML		1.0	100	5
YPE EW0107			9.0 HO.04ML		1.0	100	5
YTR Z 010753.03	P 1E						11
YDW Z 010752.06	P 3IU57.6	S 2E					20
YDW NS0107			5.5 HO.03ML		1.0	100	20
YDW EW0107			2.75HO.06ML		1.0	100	20
YRE Z 010752.67	P 1E 52.31	S 2E					3
YCL Z 010752.83	P 1E 55.58	S 3E					3
YNE Z 010752.85	P ID						9
YNA Z 010753.98	P 2ID						23
YRH Z 010754.02	P 1IU						24
YFF Z 010754.55	P 3E 58.39	S 1E					27
-1							
070185	18 237.67	238.86/ 344.25	22.7	0.7	5.0	LLEYN PENIN, NW WALES	1
						52.971 -4.400	2
YMY Z 180241.43	P ID43.95	S 2E	RMS= 0.04	ERH= 0.3	ERZ= 0.2	Q= A	3
YPE Z 180241.44	P ID44.0	S 1E					4
YTR Z 180241.83	P ID						10
YYN Z 180242.35	P 1E						17
YDW Z 180242.74	P 2I046.31	S 2E					22
YDW NS1802			7.9 HO.05ML		1.0	100	22
YDW EW1802			11.5HO.05ML		1.0	100	22
YRE Z 180241.42	P ID44.03	S 2E					3
YCL Z 180241.53	P ID44.26	S 2E					5
YBE Z 180243.34	P 2E						27
YLL Z 180243.14	P 2E						24
YUC Z 180241.62	P 1I						7
YNE Z 180241.6	P ID44.1	S 3E					8
YNA Z 180242.7	P 2EU						21
YRH Z 180242.78	P IU						22
YFF Z 180243.33	P 1IU47.15	S 1E					26
-1							
070185	195734.43	237.92/ 344.39	21.5	-0.1	5.0	LLEYN PENIN, NW WALES	1
						52.972 -4.414	2
YMY Z 195737.99	P I040.42	S 1E	RMS= 0.06	ERH= 0.4	ERZ= 0.3	Q= A	3
YPE Z 195737.99	P 1E 40.77	S 1E					5
YTR Z 195738.42	P 3ED						11
YDW Z 195739.44	P 1E 42.95	S 3E					22
YDW NS1957			3.4 HO.06ML		0.25	100	22
YDW EW1957			8.0 HO.05ML		0.25	100	22
YRE Z 1957	40.45	S 3E					1
YCL Z 1957	40.75	S 2E					5
YNE Z 195738.15	P ID						7
YNA Z 195739.3	P 2E						21
YRH Z 195739.38	P 2E						22
YFF Z 1957	44.01	S 2E					27
-1							

## PHASE DATA : 1985

100185	92529.72	337.37/ 604.58	10.8	0.7	5.0	TEVIOTHEAD, DUMF & GA	1	
						55.331 -2.987	2	
						0.2 ERZ= 0.5 Q= B	3	
ESK Z 092532.98	P	I 035.18	S	E	RMS= 0.07 ERH=	2.5 200	14	
ESK NS0925			S	E	1.2 HO.09M	2.5 200	14	
ESK EW0925			S	E	6.1 HO.09ML	2.5 200	14	
ECK Z 092533.65	P	I 036.32	S	E	6.6 HO.09ML		19	
XSO Z 092538.38	P	E 44.58	S	E			50	
-1								
100185	HEREFORD	HF293 1243	1.1	1.4	BARKER	NR HAVERFORDWEST, DYFED	1	
	124649.60	193.63/ 224.09				51.877 -4.999	2	
						5.2 ERZ= 3.6 Q= D	3	
HCG Z 124707.00	P	20.15	S	2	RMS= 0.24 ERH=		105	
HTR Z 124709.78	P	24.68	S	2			121	
MCH Z 124712.48	P	28.95	S	2			138	
MCH NS1247			S	2	5.8 HO.13ML	0.25 200	138	
MCH EW1247			S	2	6.0 HO.13ML	0.25 200	138	
HGH Z 124715.08	P	32.29	S	2			154	
HLM Z 124715.51	P	34.89	S	2			161	
SBD Z 124716.20	P	36.10	S	2			165	
-1								
110185	CORNWALL	2229 4.79	242.25/	57.08	5.0	0.9	TORPOINT, DEVON	1
							50.392 -4.220	2
							2.8 ERZ= 8.2 Q= D	3
CST Z 222917.27	P	1	S	2	RMS= 0.31 ERH=		71	
CR2 Z 2229		25.48	S	2			72	
CR2 NS2229			S	2	16.8HO.10ML	0.25 200	72	
CR2 EW2229			S	2	14.1HO.06ML	0.25 200	72	
CCA Z 2229		26.75	S	2			75	
CCO Z 2229		26.78	S	2			75	
OYA Z 222909.28	P	1	S	1			21	
OYA NS2229			S	1	40.0HO.03ML	1.0 200	21	
OYA EW2229			S	1	10.9HO.05ML	1.0 200	21	
DCO Z 222909.80	P	13.10	S	2			26	
CPZ Z 2229		33.29	S	2			101	
-1								
120185	250 3.76	329.43/ 662.30	2.0	0.8	5.0	ROSEWELL, LOTHIAN	1	
						55.849 -3.127	2	
						0.6 ERZ= 0.9 Q= B	3	
ESK Z 025014.1	P	E 21.4	S	E	RMS= 0.16 ERH=	0.25 200	59	
ESK NS0250			S	E	2.3 HO.28M	0.25 200	59	
ESK EW0250			S	E	2.4 HO.20ML	0.25 200	59	
XSO Z 025015.6	P	E 24.6	S	E	2.0 HO.28ML		68	
ECK Z 025016.4	P	E 25.9	S	E			74	
XAL Z 025024.9	P	E 40.4	S	E			124	
E01 Z 025005.70	P	I 007.16	S	E			9	
E01 NS0250			S	E	10.0HO.20ML	1.0 200	9	
E01 EW0250			S	E	10.5HO.24ML	1.0 200	9	
EAU Z 025007.88	P	I D					21	
ESY Z 025009.9	P	E					33	
EBH Z 025012.85	P	E 19.7	S	E			50	
-1								
120185	20 435.82	240.97/ 343.06	23.2	0.5	5.0	LLEYN PENIN, NW WALES	1	
						52.961 -4.368	2	
						0.4 ERZ= 0.4 Q= A	3	
YMY Z 200439.65	P	2E 42.19	S	1E	RMS= 0.08 ERH=		4	
YPE Z 200439.59	P	2EU42.1	S	2E			1	
YTR Z 200439.87	P	2IU					8	
YYN Z 200440.37	P	2IU					15	
YBA Z 200442.2	P	1E					33	
YDW Z 200441.06	P	1IU44.63	S	2E			23	
YDW NS2004			S	2E	9.7HO.03ML	1.0 100	23	
YDW EW2004			S	2E	7.7HO.04ML	1.0 100	23	
YRE Z 200439.71	P	I 042.3	S	3E			5	
YCL Z 200439.93	P	3E 42.72	S	2E			5	
YBE Z 200441.74	P	1E					28	
YNE Z 200439.85	P	1IU					9	
YNA Z 200440.94	P	1IO					21	
YRH Z 200441.04	P	1IU					23	
YFF Z 200441.31	P	1E 44.96	S	1E			24	
-1								
160185	04951.60	240.24/ 343.53	21.3	0.2	5.0	LLEYN PENIN, NW WALES	1	
						52.965 -4.379	2	
						0.7 ERZ= 0.7 Q= B	3	
YMY Z 004955.12	P	2E	S	2E	RMS= 0.07 ERH=		5	
YPE Z 004955.12	P	1E 57.36	S	2E			2	
YTR Z 004955.41	P	1IU					8	
YYN Z 004955.95	P	2E					14	
YDW Z 004956.55	P	1EU60.12	S	1E			22	
YDW NS0049			S	1E	11.9HO.04ML	0.25 100	22	
YDW EW0049			S	1E	14.2HO.04ML	0.25 100	22	
YRE Z 004955.2	P	1IO57.74	S	2E			5	
YCL Z 0049		58.6	S	2E			4	
YFF Z 004957.05	P	1E 60.55	S	1E			24	
-1								
200185	101027.67	240.04/ 343.43	22.2	0.3	5.0	LLEYN PENIN, NW WALES	1	
						52.964 -4.382	2	
						0.3 ERZ= 0.3 Q= B	3	
YMY Z 101031.34	P	2E 33.78	S	3E	RMS= 0.04 ERH=		4	
YPE Z 1010		33.79	S	2E			2	
YTR Z 101031.59	P	2E					9	
YDW Z 1010		36.3	S	1E			22	

## PHASE DATA : 1985

YDW NS1010					10.5HO.07ML		0.25	100	22
YOW EW1010					7.5HO.05ML		0.25	100	22
YRE Z 101031.38	P	21D33.99			S 2E				4
YCL Z 1010		34.15			S 2E				5
YUC Z 101031.51	P	1E							6
YNE Z 101031.56	P	1E							9
YRH Z 101032.77	P	2E							23
YFF Z 101033.16	P	2E 36.81			S 1E				24
-1									
210185					5.0				
222619.76		238.66/ 344.47		22.2	0.2				
					RMS= 0.02	ERH=	0.2	ERZ= 0.3	Q= B
									21
YDW Z 2226		28.29			S 2E				21
YDW NS2226									21
YOW EW2226					6.5HO.07ML		0.25	100	21
YRE Z 222623.43	P	2ED25.98			S 2E				2
YCL Z 222623.56	P	21D							4
YNE Z 222623.57	P	1D							8
YFF Z 222625.44	P	1IU29.23			S 3E				26
-1									
220185 CORNWALL									
15 118.98					5.0	2.4			
					RMS= 0.33	ERH= 4.4	ERZ= 2.7	Q= D	3
									148
CPZ Z 150142.43	P								170
CGH Z 150145.54	P								172
CCO Z 150145.76	P								172
CCA Z 150146.06	P								175
CR2 Z 150146.51	P	66.53			S				175
CR2 NS1501									177
CST Z 150146.66	P				7.0 HO.08ML		2.5	200	177
CBW Z 150147.16	P								178
CSA Z 150150.85	P								202
CR2 EW1501									175
-1									
220185 CORNWALL									
183954.79					1.2	2.3			
					RMS= 0.15	ERH= 3.5	ERZ= 4.3	Q= D	3
									144
CPZ Z 184018.29	P								170
CCO Z 184021.98	P								169
CGH Z 184022.00	P								173
CR2 Z 184022.40	P	42.78			S				173
CR2 NS1840									173
CR2 EW1840					10.4HO.10ML		1.0	200	173
CCA Z 184022.50	P				9.75HO.07ML		1.0	200	169
CST Z 184022.77	P								174
CBW Z 184023.05	P								176
-1									
230185									
222723.65					9.4	1.9			
					RMS= 0.90	ERH=	3.3	ERZ= 4.7	Q= D
									211
KMY Z 222753.5	P	79.5			S				308
SUE Z 22285.9	P	39.0			S 1				313
OOD Z 22286.8	P	41.0			S 1				276
ASK Z 22282.0	P	32.0			S 1				367
HYA Z 2228		55.5			S 2				366
FOO Z 2228		52.2			S 2				366
FOO NS2228									366
FOO EW2228					2.9 HO.1 ML		0.25	200	377
FRO Z 2228		54.3			4.0 HO.1 ML		0.25	200	222
LRW Z 2228		21.0			S 2				222
LRW NS2228					S 2				222
LRW EW2228					3.0 HO.1 ML		0.25	200	222
-1					5.5 HO.15ML		0.25	200	222
240185									
132518.10		239.88/ 342.88		21.2	1.3				
					RMS= 0.04	ERH=	0.2	ERZ= 0.2	Q= B
									3
YMY Z 132521.64	P	1D23.95			S 3E				2
YPE Z 132521.6	P	1D23.92			S 3E				9
YTR Z 132521.93	P	1IU							16
YYN Z 132522.48	P	1IU							23
YDW Z 132523.14	P	3E 26.7			S 1E				23
YDW NS1325									23
YDW EW1325					15.5HO.05ML		1.0	100	23
YRE Z 132521.68	P	1D24.15			S 2E		1.0	100	4
YCL Z 132521.79	P	11D							6
YBE Z 132523.75	P	11D							28
YRC Z 132524.74	P	11D							35
YLL Z 132523.44	P	1IU							24
YNE Z 132521.8	P	1D							8
YNA Z 132522.86	P	1IU							21
YRH Z 132523.05	P	1IU							22
YFF Z 132523.45	P	1IU27.0			S 3E				25
-1									
260185 CORNWALL									
144219.62		1.68/ 10.09		4.0	2.2				
					RMS= 0.26	ERH=102.5	ERZ= 12.6	Q= D	3
									144
CPZ Z 144242.70	P								171
CCO Z 144246.20	P								170
CCA Z 144246.92	P								174
CR2 Z 144247.00	P	67.05			S				174
CR2 NS1442									174
CR2 EW1442					8.5 HO.09ML		1.0	200	174
					9.9 HO.06ML		1.0	200	174

PHASE DATA : 1985

CST Z 144247.36	P							175
CBW Z 144247.66	P							177
-1								
270185		11421.73	238.42/ 343.26	22.7	0.4	5.0	LLEYN PENIN, NW WALES	1
							52.962 -4.406	2
							0.3 ERZ= 0.3 Q= B	3
								2
YMY Z 011425.5	P 110							4
YPE Z 011425.47	P 21028.07				S 2E			11
YTR Z 011425.85	P 2E							17
YYN Z 011426.44	P 2E							23
YDW Z 011426.95	P 2E 30.61				S 3E			23
YDW NS0114						11.5HO.07ML	0.25 100	23
YDW EW0114						12.5HO.06ML	0.25 100	23
YRE Z 011425.51	P 3E 28.15				S 3E			3
YCL Z 011425.65	P 2E							6
YNA Z 011426.64	P 1IU							20
YRH Z 011426.74	P 2IU							21
YFF Z 011427.45	P 3E 31.22				S 3E			26
-1								
280185		18 247.63	173.05/ 796.10	11.6	1.4		NR MALLAIG, HIGHLAND	1
							57.000 -5.737	2
							0.9 ERZ= 1.1 Q= C	3
								11
KAR Z 180250.57	P 1U52.2				S E			30
KSB Z 180253.4	P 1U57.04				S 10			36
KYL Z 180254.35	P 1 58.8				S E			36
KYL NS1802						10.0HO.1 ML	1.0 200	36
KYL EW1802						14.5HO.15ML	1.0 200	36
MDO Z 18034.9	P 2E 17.0				S 2E			97
MVH Z 180311.0	P 1E 26.7				S E			139
MCD Z 1803					S 4E			163
MCO NS1803						4.0 HO.1 ML	0.25 200	163
MCD EW1803						6.0 HO.11ML	0.25 200	163
-1								
300185		204442.73	239.83/ 343.10	24.5	0.5	5.0	LLEYN PENIN, NW WALES	1
							52.961 -4.385	2
							1.3 ERZ= 0.9 Q= B	3
								3
YMY Z 204446.82	P 2IU49.4				S 1E			2
YPE Z 204446.76	P 2E 49.3				S 1E			9
YTR Z 204447.07	P 2E							16
YYN Z 204447.6	P 3E							22
YDW Z 204448.21	P 1IU51.87				S 1E			22
YDW NS2044						14.0HO.07ML	0.25 100	22
YDW EW2044						14.0HO.05ML	0.25 100	22
YRE Z 204446.45	P 2E 49.76				S 1E			4
YCL Z 204446.46	P 2E							5
YBE Z 204448.89	P 2E							28
YUC Z 204447.0	P 1IU							7
YNA Z 204448.0	P 3E							21
YRH Z 204448.13	P 3IU							23
YFF Z 204448.51	P 2E 52.26				S 2E			25
-1								
300185		233140.42	239.64/ 343.44	21.8	1.4	5.0	LLEYN PENIN, NW WALES	1
							52.964 -4.388	2
							0.5 ERZ= 0.4 Q= A	3
								3
YMY Z 233144.04	P 11046.16				S 3E			3
YPE Z 233144.03	P 11046.5				S 1E			9
YTR Z 233144.37	P 110							16
YYN Z 233144.87	P 2IU							22
YDW Z 233145.43	P 11049.04				S 1E			22
YDW NS2331						12.3HO.06ML	2.5 100	22
YDW EW2331						13.0HO.06ML	2.5 100	22
YRE Z 233144.05	P 1046.66				S 1E			4
YCL Z 233144.15	P 110							5
YBE Z 233146.07	P 110							27
YRC Z 233147.06	P 110							34
YUC Z 233144.25	P 210							7
YNE Z 233144.24	P 110							8
YNA Z 233145.23	P 31							21
YRH Z 233144.45	P 1IU							23
YFF Z 233145.89	P 1IU49.65				S 2E			25
-1								
010285		CORNWALL					SW SCILLY ISLES	1
		145145.74					50.031 -7.673	2
							5.0 2.0 RMS= 0.31 ERH= 30.3 ERZ= 12.7 Q= D	3
								150
CPZ Z 145209.01	P							176
CCA Z 145212.93	P							178
CCO Z 145213.25	P							180
CGH Z 145213.82	P							180
CR2 Z 145214.20	P 34.47				S			180
CR2 NS1452						8.5 HO.05ML	1.0 200	180
CR2 EW1452						8.5 HO.05ML	1.0 200	180
CST Z 145214.45	P							181
CBW Z 145214.69	P							184
-1								
030285		12611.90	239.84/ 343.43	22.7	0.2	5.0	LLEYN PENIN, NW WALES	1
							52.964 -4.385	2
							0.3 ERZ= 0.3 Q= B	3
								4
YMY Z 012615.63	P 3E							3
YPE Z 012615.73	P 2E 18.17				S 1E			9
YTR Z 012615.94	P 2E							22
YDW Z 012617.05	P 2E 20.65				S 1E			22
YDW NS0126						7.7HO.07ML	0.25 100	22

## PHASE DATA : 1985

YDW EW0126					9.5HO.06ML	0.25 100	22
YRE Z 0126		18.32		S 3E			4
YNE Z 012615.83	P 2E						9
YNA Z 012616.86	P 2E						22
YRH Z 012617.05	P 2I						23
YFF Z 012617.42	P 3E 21.16			S 2E			25
-1							
040285LOWNET						OCHIL HILLS,TAYSIDE	1
61616.27	293.29/ 707.46		3.4 1.6			56.248 -3.722	2
					RMS= 0.09 ERH=	0.5 ERZ= 0.9 Q= B	3
EAU Z 061624.9	P						48
ELO Z 061620.9	P						25
EBL Z 061627.92	P						68
ESY Z 061629.6	P						78
EDU Z 061625.85	P						55
EAB Z 061623.33	P						39
EBH Z 061618.99	P						13
EDI Z 0616		31.3		S			49
EDI NS0616					16.0H.10 ML	0.25 200	49
EDI EW0616					24.0H.12 ML	0.25 200	49
MME Z 061638.9	P 2E						128
MCD Z 061641.9	P 2E 58.5			S 2E			151
MCD NS0616					10.5HO.2 ML	0.25 200	151
MCD EW0616					14.2HO.19ML	0.25 200	151
-1							
040285					5.0	NR KIRKBY STEPHEN,CUMB1	1
15 134.86	378.53/ 504.46		5.1 1.7			54.435 -2.331	2
					RMS= 0.14 ERH=	3.0 ERZ= 6.3 Q= D	3
XAL Z 150142.46	P 2E						48
XDE Z 150147.45	P E 57.0			S 2E			76
ECK Z 150150.99	P E 62.77			S E			98
ESK Z 150153.60	P EU66.77			S E			113
ESK NS1501					14.5HO.15ML	0.25 200	113
ESK EW1501					9.5HO.16ML	0.25 200	113
XSO Z 150154.38	P E 68.1			S E			118
-1							
050285 LOWNET					FORD	OCHIL HILLS,TAYSIDE	1
0 637.29	293.31/ 707.69		3.0 0.7			56.250 -3.722	2
					RMS= 0.02 ERH=	0.1 ERZ= 0.4 Q= B	3
EBH Z 000640.01	P 0IU41.98			S			13
ELO Z 000641.94	P 1EU						25
EAB Z 000644.35	P 1IU						39
EAU Z 000645.92	P 2IU						48
EDU Z 000646.90	P 2EU						55
EDI NS0006					7.75HO.09ML	0.25 200	49
EDI EW0006					5.7HO.11ML	0.25 200	49
EDI Z 000645.92	P 4						49
-1							
060285						LOCH MAREE,HIGHLAND	1
04648.32	190.27/ 868.74		15.0 1.0			57.660 -5.516	2
					RMS= 0.22 ERH=	10.2 ERZ= 12.1 Q= D	3
M00 Z 00470.85	P 9.7			S 2			73
MVH Z 0047	12.4			S 2			85
MCD Z 0047	24.0			S 3			136
MCD NS0047					3.0 HO.1 ML	0.25 200	136
MCD EW0047					3.0 HO.1 ML	0.25 200	136
KAC Z 004652.7	P 56.3			S			22
-1							
060285					5.0	LLEYN PENIN, NW WALES	1
233635.54	238.00/ 342.83		20.6 0.6			52.958 -4.412	2
					RMS= 0.09 ERH=	0.6 ERZ= 0.8 Q= B	3
YMY Z 233639.04	P 1I						2
YPE Z 233639.05	P 1ID41.36			S 2E			4
YTR Z 233639.41	P 1ID						10
YYN Z 233640.01	P 1ID						17
YDW Z 233640.65	P 3E 44.13			S 1E			23
YDW NS2336					16.5HO.09ML	0.25 100	23
YDW EW2336					13.9HO.07ML	0.25 100	23
YRE Z 233638.92	P 2E						3
YCL Z 233638.9	P 3E						6
YUC Z 233639.31	P 1ID						8
YNE Z 233639.21	P 2IU						7
YNA Z 233639.98	P 3E						21
YRH Z 233639.99	P 3E						22
YFF Z 233641.02	P 1D44.74			S 3E			26
-1							
130285 CORNWALL						W.TREVOSE HEAD,CORNWAL1	1
1451 5.93	151.41/ 74.52		9.5 1.1			50.517 -5.507	2
					RMS= 0.04 ERH=	3.8 ERZ= 53.4 Q= D	3
CPZ Z 145113.07	P						41
CCA Z 145113.25	P						42
CST Z 145113.57	P						43
CR2 Z 145113.80	P 19.68			S			46
CR2 NS1451					10.8HO.04ML	1.0 200	46
CR2 EW1451					7.3 HO.05ML	1.0 200	46
CCO Z 145114.25	P						48
-1							
200285						FIRTH OF CLYDE	1
211218.08	217.86/ 633.01		8.3 1.3			55.557 -4.888	2
					RMS= 0.35 ERH=	2.5 ERZ= 3.3 Q= D	3
EAU Z 211233.62	P E						96
ELO Z 211238.23	P E 52.56			S E			126

PHASE DATA : 1985

EBL Z 211237.08	P E									119
EAB Z 211230.45	P E 38.0			S 3E						78
EBH Z 211236.86	P E 50.9			S E						116
EDI Z 211236.58	P E 50.72			S E						115
EDI NS2112					7.0HO.08ML		0.25 200			115
EDI EW2112					5.5HO.08ML		0.25 200			115
EDU Z 211243.78	P E 62.15			S E						161
ESK Z 211236.33	P E 48.46			S E						110
ESK NS2112					8.5HO.12ML		0.25 200			110
ESK EW2112					9.1HO.08ML		0.25 200			110
XDE Z 2112		48.48		S 4E						147
ECK Z 211237.46	P E 51.54			S E						119
-1										
270285 LOWNET LN420		332.01/ 670.59	0.9 1.3		FORD	DANDERHALL, LOTHIAN				1
24731.50					55.924	-3.088				2
					RMS= 0.02 ERH=	0.3 ERZ=	0.3 Q= B			3
EDI Z 024733.00	P IU34.23			S			10.0 200			6
EDI NS0247					5.25HO.17ML		10.0 200			6
EDI EW0247					5.5HO.19ML		10.0 200			6
EBL Z 024735.14	P ID									17
EAU Z 024736.44	P EU									25
ESY Z 024737.32	P 11D									30
EBH Z 024739.82	P 2EU									45
-1										
020385					5.0	ROSEWELL, LOTHIAN				1
211730.29	329.40/ 663.62	1.9 0.8			55.861	-3.128				2
					RMS= 0.04 ERH=	0.3 ERZ=	0.4 Q= B			3
EDI Z 211732.11	P I033.59			S I			1.0 200			8
EDI NS2117					7.9HO.22ML		1.0 200			8
EDI EW2117					IU11.0HO.28ML		1.0 200			8
EBL Z 211732.71	P E 34.53			S IU						11
EAU Z 211734.36	P ID									21
ESY Z 211736.45	P 2E									33
EBH Z 211739.3	P 2E									49
-1										
050385					5.0	LLEYN PENIN, NW WALES				1
115541.33	247.63/ 337.06	23.6 0.6			52.909	-4.266				2
					RMS= 0.54 ERH=	3.2 ERZ=	3.5 Q= C			3
YMY Z 115544.65	P 11047.77			S 2E						41
YPE Z 115544.62	P 21047.21			S 2E						45
YTR Z 115544.97	P 2E									52
YYN Z 115545.46	P 2E									58
YOW Z 115540.42	P 11D									47
YDW NS1155					10.0HO.07ML		0.25 100			47
YDW EW1155					13.4HO.05ML		0.25 100			47
YRE Z 115538.62	P 2E 41.79			S 2E						40
YCL Z 1155	42.02			S 2E						44
YLL Z 115535.34	P 2IU									56
YNE Z 115534.02	P 11D									37
YNA Z 115535.12	P 2ED									43
YRH Z 115534.69	P 3E									36
YFF Z 115545.12	P 2E 48.99			S 3E						67
-1										
060385					5.0	ROSEWELL, LOTHIAN				1
223931.90	329.59/ 663.62	2.6 0.6			55.861	-3.125				2
					RMS= 0.09 ERH=	0.5 ERZ=	130.8 Q= C			3
EDI Z 223933.60	P I035.04			S E			1.0 200			8
EDI NS2239					8.5HO.15ML		1.0 200			8
EDI EW2239					8.6HO.24ML		1.0 200			8
EBL Z 223934.06	P E 36.03			S E						11
EAU Z 223935.86	P ID									21
ESY Z 223937.9	P E									33
EBH Z 223940.85	P E									49
-1										
090385					5.0	LLEYN PENIN, NW WALES				1
2352 0.46	241.18/ 343.28	21.1 1.1			52.963	-4.365				2
					RMS= 0.09 ERH=	0.5 ERZ=	0.4 Q= A			3
YMY Z 235203.96	P 11006.49			S 2E						4
YPE Z 235203.93	P 11006.37			S 1E						2
YTR Z 235204.22	P 11D									8
YYN Z 235204.8	P 2E									15
YOW Z 235205.42	P 11009.06			S 1E						22
YDW NS2352					8.0HO.06ML		1.0 100			22
YDW EW2352					10.5HO.05ML		1.0 100			22
YRE Z 235204.05	P 11006.66			S 2E						5
YCL Z 235204.12	P 11006.27			S 2E						5
YBE Z 235206.12	P 11D									28
YRC Z 235207.0	P 3E									35
YLL Z 235205.67	P 1IU									23
YUC Z 235204.05	P IU									6
YNE Z 235204.18	P 11D									9
YNA Z 235205.24	P 2EU									22
YRH Z 235205.65	P IU									23
YFF Z 235205.7	P 2E 09.27			S 2E						24
-1										
100385						OCHIL HILLS, TAYSIDE				1
11730.40	293.61/ 708.57	7.8 1.7			56.258	-3.718				2
					RMS= 0.14 ERH=	0.8 ERZ=	4.3 Q= B			3
EAU Z 011739.0	P									49
ELO Z 011734.95	P									24
ESY Z 011743.6	P 3				8.5 HO.09ML		0.25 200			78
EDU Z 011739.8	P									54

## PHASE DATA : 1985

EAB Z 011737.3	P								39
EBH Z 011733.0	P								13
EDI Z 011739.0	P	45.1	S						50
EDI NS0117					8.0 HO.08ML	1.0	200		50
EDI EWO117					9.25HO.11ML	1.0	200		50
MCD Z 011848.3	P	9 65.4	S	1					150
MCD NS0118					14.0HO.2 ML	0.25	200		150
MCD EWO118					17.0HO.25ML	0.25	200		150
-1									
130385					5.0	ROSEWELL, LOTHIAN			1
24513.28	329.95/	663.27	0.2	0.7		55.858	-3.119		2
					RMS= 0.06 ERH=	0.3 ERZ=	0.3 Q= B		3
EDI Z 024515.44	P	1016.90	S	E					8
EDI NS0245					7.5HO.28ML	1.0	200		8
EDI EWO245					8.5HO.28ML	1.0	200		8
EBL Z 024515.90	P	E 17.90	S	E					11
EAU Z 024517.70	P	IO							21
ESY Z 024519.6	P	E							32
EBH Z 024522.7	P	E 29.6	S	2E					50
-1									
140385					5.0	LLEYN PENIN, NW WALES			1
19 025.58	238.79/	344.28	22.6	1.1		52.971	-4.401		2
					RMS= 0.04 ERH=	0.4 ERZ=	0.3 Q= B		3
YMY Z 190029.31	P	IO31.84	S	2E					3
YPE Z 190029.32	P	IO31.85	S	1E					4
YTR Z 190029.67	P	IO							10
YYN Z 190030.25	P	2E							16
YOW Z 190030.65	P	2E 34.18	S	2E					22
YOW NS1900					18.0HO.07ML	1.0	100		22
YOW EW1900					13.9HO.05ML	1.0	100		22
YRE Z 190029.34	P	IO							3
YCL Z 190029.45	P	IO32.18	S	2E					4
YFF Z 190031.24	P	2E 35.12	S	2E					26
-1									
150385					5.0	OCHIL HILLS, TAYSIDE			1
11 214.63	292.69/	707.44	3.5	0.5		56.247	-3.732		2
					RMS= 0.16 ERH=	0.5 ERZ=	12.3 Q= C		3
EBH Z 110217.50	P	IU19.40	S	E	17.0HO.05ML	1.0	200		14
EAB Z 110221.76	P	IU26.5	S	E					38
ELO Z 110219.57	P	E 22.6	S	E					25
-1									
150385					5.0	ROSEWELL, LOTHIAN			1
20 037.67	329.77/	663.70	3.6	0.6		55.861	-3.122		2
					RMS= 0.10 ERH=	1.4 ERZ=	3.1 Q= C		3
EDI Z 200039.46	P	E 40.89	S	I					8
EDI NS2000					20.5HO.24ML	0.25	200		8
EDI EWO2000					IU33.0HO.25ML	0.25	200		8
EBL Z 200039.89	P	E 41.8	S	E					11
EAU Z 200041.66	P	IO							21
EBH Z 200046.7	P	2E							49
-1									
190385					5.0	ROSEWELL, LOTHIAN			1
14823.79	329.93/	663.55	2.1	0.4		55.860	-3.120		2
					RMS= 0.08 ERH=	1.2 ERZ=	0.9 Q= C		3
EDI Z 014825.65	P	IO27.05	S	E					8
EDI NS0148					6.0HO.17ML	1.0	200		8
EDI EWO148					6.6HO.18ML	1.0	200		8
EBL Z 014826.1	P	E 27.9	S	E					11
EAU Z 014827.90	P	IO							21
EBH Z 014832.9	P	E							50
-1									
200385					5.0	ROSEWELL, LOTHIAN			1
3 216.71	329.72/	662.57	0.1	0.5		55.851	-3.123		2
FELT BILSTON PIT, BUMP & BROKEN GIRDER	P				RMS= 0.01 ERH=	0.0 ERZ=	0.0 Q= C		3
EDI Z 030218.95									9
EDI NS0302					5.2 HO.21ML	1.0	200		9
EDI EWO302					4.0 HO.3 ML	1.0	200		9
EAU Z 030221.12	P	24.4	S	1					21
EBL Z 030219.21	P								10
-1									
200385					5.0	LLEYN PENIN, NW WALES			1
101129.76	239.76/	343.10	19.3	0.7		52.961	-4.386		2
					RMS= 0.09 ERH=	0.9 ERZ=	0.7 Q= B		3
YMY Z 101133.01	P	IO35.1	S	2E					3
YPE Z 1011		35.31	S	1E					2
YTR Z 101133.35	P	2I							9
YYN Z 101133.96	P	IO							16
YOW Z 101134.56	P	IO38.11	S	2E					22
YOW NS1011					6.5HO.06ML	1.0	100		22
YOW EW1011					7.1HO.09ML	1.0	100		22
YRE Z 101133.05	P	IO34.96	S	3E					4
YCL Z 101133.2	P	2IO33.42	S	3E					5
YFF Z 101135.0	P	IO38.26	S	3E					25
-1									
230385					5.0	E OF BARMOUTH, GWYNEDD1			1
19 025.11	264.16/	314.27	12.7	1.2		52.709	-4.011		2
					RMS= 0.08 ERH=	0.7 ERZ=	0.3 Q= C		3
YMY Z 190032.00	P	IO36.72	S	3E					39
YYN Z 190030.60	P	IO							30
YBA Z 190027.34	P	IO							4
YOW Z 190034.33	P	IO40.70	S	3E					55
YOW NS1900					7.7HO.08ML	0.25	100		55

PHASE DATA : 1985

YDW	EW1900				10.0HO.09ML	0.25	100	55
YRE	Z 190032.45	P 1	U37.55	S	3E			41
YCL	Z 190032.31	P 2	U37.48	S	3E			40
YBE	Z 190035.45	P 1	0					62
YLL	Z 190033.43	P 1	0					49
YUC	Z 190031.80	P 1	0					37
YNE	Z 190032.42	P	1IU					41
YNA	Z 190031.52	P	1IO					36
YRH	Z 190032.71	P	IO					44
YFF	Z 190028.65	P	IU					17
	-1							
240385	32546.92	239.32/	344.01	22.3	1.9	5.0		LLEYN PENIN, NW WALES 1
								52.969 -4.393 2
						RMS= 0.05 ERH=	0.3 ERZ= 0.3 Q= A	3
YMY	Z 032550.61	P	I053.02	S	3E			3
YMY	SM0325					8.7HO.05ML	0.25	4 3
YPE	Z 032550.61	P	I053.12	S	3E			4
YTR	Z 032550.95	P	IO					10
YYN	Z 032551.48	P	IO					17
YBA	Z 032553.55	P	1 U					35
YOW	Z 032551.93	P	I055.49	S	3E			22
YRE	Z 032550.60	P	IO					3
YCL	Z 032550.74	P	I053.47	S	3E			5
YBE	Z 032552.54	P	IO					27
YAC	Z 032553.47	P	IO					33
YLL	Z 032552.26	P	IU					24
YNE	Z 032550.80	P	IO					8
YNA	Z 032551.91	P	IU					21
YRH	Z 032552.00	P	IU					22
YFF	Z 032552.55	P	IU56.36	S	3E			26
YOW	SM0325					2.5 HO.10ML	1.0	4 22
	-1							
240385	104540.98	332.16/	663.93	8.1	0.2	5.0		ROSEWELL, LOTHIAN 1
								55.864 -3.084 2
						RMS= 0.02 ERH=	0.6 ERZ= 1.1 Q= C	3
EDI	Z 104543.34	P	E 44.98	S	E			9
EDI	NS1045					13.6HO.23ML	0.25	200 9
EDI	EW1045					12.6HO.18ML	0.25	200 9
EBL	Z 104543.47	P	E					10
EAU	Z 104545.40	P	E 48.7	S	E			23
	-1							
250385	104337.87	204.81/	780.99	8.6	1.0	5.0		FORT WILLIAM, HIGHLAND1
								56.879 -5.204 2
						RMS= 0.45 ERH=	1.7 ERZ= 4.3 Q= C	3
KSB	Z 104344.63	P	E049.20	S	EU16.0HO.10ML			0.25 200 39
KAR	Z 104344.71	P	IU49.50	S	E	9.3HO.08ML	0.25	200 38
KAC	Z 104350.4	P	E 61.2	S	E			69
EAB	Z 104352.9	P	E 63.9	S	E	10.4HO.09ML	0.25	200 94
ELO	Z 104353.8	P	E 66.1	S	E	9.2HO.09ML	0.25	200 102
EBH	Z 104358.25	P	E 72.5	S	E			126
PMS	Z 104357.36	P	E 71.2	S	E			119
PCO	Z 104357.50	P	E 72.0	S	E			121
	-1							
260385	CORNWALL							S CONSTANTINE, CORN 1
	05517.27	173.62/	27.86	5.3-0.6				50.107 -5.166 2
						RMS= 0.04 ERH=	0.6 ERZ= 1.0 Q= B	3
CCO	Z 005518.48	P						4
CGH	Z 005518.75	P						6
CBW	Z 005518.80	P						6
CR2	Z 005518.85	P	20.01	S				7
CR2	NS0055					8.5 HO.05ML	0.25	200 7
CR2	EW0055					5.6 HO.06ML	0.25	200 7
CST	Z 005519.30	P	20.77	S				10
	-1							
260385	221131.64	381.25/	640.64	8.6	1.0	5.0		NR COLDSTREAM, BORDERS1
								55.659 -2.298 2
						RMS= 0.26 ERH=	33.8 ERZ= 9.8 Q= D	3
POSSIBLE QUARRY, BUT UNUSUAL TIME								
ESY	Z 221137.80	P	E					35
EBL	Z 221139.80	P	E					49
EDI	Z 221142.66	P	E					63
EDI	NS2211					6.2HO.10ML	0.25	200 63
EDI	EW2211					7.0HO.10ML	0.25	200 63
EAU	Z 221144.20	P	E					75
EBH	Z 221147.8	P	E					100
ELO	Z 221151.8	P	2E					126
EDU	Z 221152.6	P	2E					109
	-1							
020485	CORNWALL							N OF TINTAGEL, CORNWALL1
	204343.92	194.60/	102.79	7.3	1.2			50.788 -4.914 2
						RMS= 0.17 ERH=	1.8 ERZ= 2.9 Q= C	3
HTL	Z 204350.74	P	55.43	S				38
HTL	NS2043					11.6HO.07ML	1.0	200 38
HTL	EW2043					9.2 HO.10ML	1.0	200 38
CSA	Z 204352.35	P						48
CST	Z 204355.44	P						68
CCA	Z 204355.67	P						71
CR2	Z 204355.90	P						71
CBW	Z 204356.07	P						73
CCO	Z 204356.55	P						75
CPZ	Z 204357.85	P						85
OYA	NS2043					8.0 HO.08ML	1.0	200
OYA	EW2043					6.5 HO.10ML	1.0	200
	-1							



PHASE DATA : 1985

030485	152234.64	239.67/ 344.59	22.6	0.6	5.0	LLEYN PENIN, NW WALES	1
						52.974 -4.403	2
					RMS= 0.06 ERH=	0.4 ERZ= 0.4 Q= A	3
YMY Z	152238.34	P 2E 40.92		S 2E			3
YMY NS	1522				11.0HO.06ML	0.25 100	3
YMY EW	1522				11.0HO.07ML	0.25 100	3
YPE Z	152238.36	P 3E 40.93		S 2E			4
YPE NS	1522				12.0HO.07ML	0.25 100	4
YPE EW	1522				13.0HO.07ML	0.25 100	4
YTR Z	152238.76	P 1ED					11
YYN Z	152239.42	P 2E					17
YBA Z	152241.44	P 3E 46.09		S 3E			36
YDW Z	152239.69	P 1E 43.16		S 2E			22
YDW NS	1522				17.0HO.08ML	0.25 100	22
YDW EW	1522				12.0HO.1 ML	0.25 100	22
YRE Z	152238.38	P 2E 40.96		S 2E			2
YCL Z	152238.52	P 2E 41.24		S 2E			5
YBE Z	152240.18	P 1E					27
YRC Z	152241.16	P 1E					33
YLL Z	152240.01	P 1E					24
YUC Z	152238.60	P 1E					8
YNE Z	152238.56	P E					7
YNA Z	152239.68	P E					21
YRH Z	152239.70	P 1E					22
YFF Z	152240.36	P 1044.30		S 3E			27
	-1						
040485	195112.50	238.86/ 344.25	23.1	1.2	5.0	LLEYN PENIN, NW WALES	1
						52.971 -4.400	2
					RMS= 0.05 ERH=	0.3 ERZ= 0.2 Q= A	3
YMY Z	195116.30	P 1018.88		S 2E			3
YMY NS	1951				18.0HO.07ML	2.5 100	3
YMY EW	1951				20.0HO.08ML	2.5 100	3
YPE Z	195116.32	P 11018.90		S 2E			4
YPE NS	1951				17.0HO.06ML	2.5 100	4
YPE EW	1951				11.0HO.07ML	2.5 100	4
YTR Z	195116.68	P 10					11
YYN Z	195117.16	P 1E					17
YOW Z	195117.60	P 1021.16		S 1E			22
YRE Z	195116.32	P 1018.98		S 2E			2
YCL Z	195116.45	P 1019.22		S 2E			5
YBE Z	195118.22	P ED					27
YRC Z	195119.12	P 1ED					33
YLL Z	195117.96	P 1EU					24
YUC Z	195116.44	P EU					8
YNE Z	195116.42	P IU					8
YNA Z	195117.58	P 1IU					21
YRH Z	195117.62	P IU					22
YFF Z	195118.24	P 1EU22.08		S 2E			26
	-1						
040485	195144.75	238.66/ 344.36	22.6	1.2	5.0	LLEYN PENIN, NW WALES	1
						52.972 -4.403	2
					RMS= 0.08 ERH=	0.5 ERZ= 0.4 Q= A	3
YMY Z	195148.46	P 11051.03		S 3E			3
YMY NS	1951				18.0HO.06ML	1.0 100	3
YMY EW	1951				14.0HO.07ML	1.0 100	3
YPE Z	195148.47	P 1E051.05		S 3E			5
YPE NS	1951				15.0HO.06ML	1.0 100	5
YPE EW	1951				14.0HO.06ML	1.0 100	5
YTR Z	195148.82	P 1ED					11
YYN Z	195149.56	P 2E					18
YBA Z	1951	55.90		S 3E			36
YDW Z	195149.76	P 1E053.32		S 2E			22
YDW NS	1951				18.0HO.07ML	1.0 100	22
YDW EW	1951				19.0HO.06ML	1.0 100	22
YRE Z	195148.48	P E051.12		S 3E			2
YCL Z	195148.62	P 1E051.38		S 3E			5
YBE Z	195150.36	P 2E					26
YRC Z	195151.28	P 2ED					33
YLL Z	195150.12	P 2EU					24
YUC Z	195148.66	P 11D					8
YNE Z	195148.64	P 11D					7
YNA Z	195149.76	P 11U					21
YRH Z	195149.80	P 21U					22
YFF Z	195150.60	P 2E 54.40		S 3E			27
	-1						
040485	LOWNET	211015.85	331.33/ 665.38	7.7	0.7	POLTON, LOTHIAN	1
						55.877 -3.098	2
					RMS= 0.01 ERH=	0.0 ERZ= 0.0 Q= C	3
EDI Z	211017.95	P 19.45		S			8
EDI NS	2110				12.6HO.15ML	1.0 200	8
EDI EW	2110				12.5HO.20ML	1.0 200	8
EAU Z	211020.20	P					23
EBL Z	211018.56	P					12
	-1						
070485	193357.32	238.52/ 344.26	23.0	0.5	5.0	LLEYN PENIN, NW WALES	1
						52.971 -4.405	2
					RMS= 0.07 ERH=	0.4 ERZ= 0.4 Q= A	3
YMY Z	193401.06	P 2E 03.66		S 3E			3
YMY NS	1934				17.5HO.06ML	0.25 100	3
YMY EW	1934				15.0HO.06ML	0.25 100	3
YPE Z	193401.12	P 2E 03.68		S 3E			4
YTR Z	193401.46	P 2E					11

## PHASE DATA : 1985

YYN Z 193402.16	P 2E								17
YDW Z 193402.42	P 1E006.02		S 3E						22
YDW NS1934				15.0HO.07ML		0.25 100			22
YDW EW1934				16.0HO.06ML		0.25 100			22
YRE Z 193401.12	P 1003.84		S 3E						2
YCL Z 193401.24	P 1E004.03		S 3E						5
YBE Z 193402.66	P ID								27
YRC Z 193403.94	P 2E								33
YLL Z 193402.76	P 2E								24
YUC Z 193401.32	P 2ED								8
YNE Z 193401.30	P 2ED								7
YNA Z 193402.40	P 2EU								21
YRH Z 193402.44	P EU								22
YFF Z 193403.06	P 2E 07.04		S 3E						27
-1									
080485	44720.68	185.10/ 794.41	3.2 2.3					LOCH NEVIS, HIGHLAND	1
						56.991 -5.538			2
						RMS= 0.15 ERH= 1.0 ERZ= 2.4 Q= C			3
ELO Z 044741.2	P 55.0		S 2						126
EAB Z 044739.8	P 53.3		S 2						116
EBH Z 044745.2	P 62.4		S 2						150
EDI Z 0447	72.5		S 2						187
EDI NS0447				15.0HO.25ML		0.25 200			187
EDI EW0447				8.5 HO.45ML		0.25 200			187
MCO Z 044737.8	P 4 54.6		S 4						153
MCD NS0447				4.1 HO.2 ML		1.0 200			153
MCD EW0447				4.0 HO.19ML		1.0 200			153
MDO Z 044727.6	P 4 36.6		S 4						87
MVH Z 044734.4	P 4 49.1		S 4						132
KYL Z 044727.91	P IU32.9		S 2						39
KAR Z 044724.59	P IU27.0		S 2						20
KSB Z 044725.32	P								25
KAC Z 044730.90	P IU								59
-1									
080485	18 1 8.44	182.51/ 792.87	5.4 1.3		5.0			LOCH MORAR, HIGHLAND	1
						56.976 -5.579			2
						RMS= 0.18 ERH= 5.3 ERZ= 6.5 Q= 0			3
EAB Z 180127.50	P E041.30		S E	5.5HO.09ML		0.25 200			116
ELO Z 180129.01	P EU44.6		S E	7.8HO.12ML		0.25 200			128
EBH Z 180132.5	P E 49.7		S E						151
EAU Z 180136.9	P E								182
-1									
090485	183848.98	150.44/ 669.21	5.0 2.4					JURA, STRATHCLYDE	1
						55.851 -5.988			2
						RMS= 0.45 ERH= 4.9 ERZ= 9.1 Q= 0			3
EAU Z 183915.0	P 1								159
EBL Z 183918.4	P 2								185
EAB Z 183906.95	P I019.6		S 1						109
ELO Z 183914.6	P 1EU								157
EBH Z 183914.7	P 2E								161
EDI Z 1839	38.0		S 4						175
EDI NS1839				5.5 HO.1 ML		1.0 200			175
EDI EW1839				3.5 HO.25ML		1.0 200			175
PMS Z 183902.28	P IU								78
PGB Z 183905.06	P IU15.55		S 2						95
PGB NS1839				11.6HO.12ML		2.5 200			95
PGB EW1839				12.7HO.15ML		2.5 200			95
PCA Z 183907.40	P E 19.85		S 1						110
PCO Z 183908.27	P 1E								119
KAR Z 183908.2	P I023.1		S						119
KSB Z 183913.4	P ID								155
KAC Z 183916.5	P 2								188
-1									
100485	01943.27	330.24/ 663.63	1.0 0.0		5.0			ROSEWELL, LOTHIAN	1
						55.861 -3.115			2
						RMS= 0.10 ERH= 0.5 ERZ= 0.4 Q= C			3
EDI Z 001945.28	P I046.80		S E	13.5HO.11ML		0.25 200			8
EDI NS0019				8.1HO.18ML		0.25 200			8
EDI EW0019									8
EBL Z 001945.73	P E 47.73		S E						11
EAU Z 001947.74	P E								21
EBH Z 001952.6	P E								50
-1									
110485	81346.67	153.46/ 673.56	5.0 2.0					JURA, STRATHCLYDE	1
						55.892 -5.943			2
						RMS= 0.31 ERH= 3.2 ERZ= 6.0 Q= 0			3
EAB Z 081404.2	P 16.6		S						105
ELO Z 081412.1	P 1								153
EAU Z 081412.3	P 1								156
EDI Z 0814	34.9		S 2						173
EDI NS0814				7.5 HO.13ML		0.25 200			173
EDI EW0814				5.5 HO.3 ML		0.25 200			173
MCO Z 081420.0	P 4 50.0		S 4						250
MCD NS0814				7.1 HO.14ML		0.25 200			250
MCD EW0814				7.4 HO.2 ML		0.25 200			250
PMS Z 081359.31	P IU								75
PGB Z 081402.12	P 2E 12.63		S 1						92
PGB NS0814				11.6HO.07ML		1.0 200			92
PGB EW0814				13.9HO.13ML		1.0 200			92
PCA Z 081404.34	P 2E								108
PCO Z 081405.74	P 110								116
KAR Z 081405.3	P 19.3		S						114

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KSB Z 081410.4	P							150
KAC Z 081415.0	P 2							183
-1								
110485		11 926.80	331.83/ 857.78	0.2 1.4	5.0	SE OF ELGIN, GRAMPIAN	1	
						57.605 -3.141	2	
						RMS= 0.40 ERH= 22.3 ERZ= 11.5 Q= D	3	
ELO Z 110948.20	P 2E 61.2			S 3E				131
EAB Z 110955.15	P 1075.5			S E				174
EDI Z 110956.1	P E 78.4			S E				187
EDI NS1109					3.1HO.11ML	0.25 200		187
EDI EW1109					3.8HO.10ML	0.25 200		187
ESY Z 110957.10	P EU							191
EAU Z 110957.55	P E							197
EBL Z 110959.60	P E							204
-1								
110485		215949.67	306.60/ 580.67	3.0 0.9	5.0	N OF LOCHMABEN, DUMF&GA1	1	
						55.112 -3.464	2	
						RMS= 0.32 ERH= 3.1 ERZ= 3.9 Q= D	3	
ECK Z 215954.21	P IU56.96			S E				23
ESK Z 215954.70	P IU58.4			S E				28
ESK NS2159					4.7HO.12ML	1.0 200		28
ESK EW2159					6.2HO.12ML	1.0 200		28
EBL Z 215963.03	P E072.9			S E				78
EAU Z 215963.34	P ED							82
EDI Z 2159	76.9			S E				92
EDI NS2159					4.0HO.09ML	0.25 200		92
EDI EW2159					4.5HO.10ML	0.25 200		92
ESY Z 215967.46	P E 81.6			S 3E				105
EAB Z 2159	85.1			S 3E				132
ELO Z 2159	91.5			S E				152
-1								
130485		95221.02	327.99/ 661.67	0.5 0.8	5.0	ROSEWELL, LOTHIAN	1	
						55.843 -3.150	2	
						RMS= 0.22 ERH= 0.2 ERZ= 0.3 Q= B	3	
EDI Z 095223.06	P I024.54			S I				9
EDI NS0952					16.1HO.16ML	1.0 200		9
EDI EW0952					14.1HO.14ML	1.0 200		9
EBL Z 095223.56	P E 25.38			S E				10
EAU Z 095225.28	P IO							19
ESY Z 095227.87	P E							35
-1								
150485		190209.51	647.53/ 175.63	1.5 3.0		OFFSHORE RAMSGATE	1	
						51.425 1.561	2	
						RMS= 0.30 ERH= 1.4 ERZ= 2.3 Q= D	3	
MCH Z 190256.06	P 2 88.9			S 3				322
MCH NS1902					17.0HO.26ML	0.25 200		322
MCH EW1902					14.0HO.2 ML	0.25 200		322
SBD Z 190261.8	P 2							368
HAE Z 190252.56	P 2							292
HCG Z 190261.8	P 2							373
HGH Z 190254.04	P 1							304
HTR Z 190258.01	P 2							341
HLM Z 190256.32	P 2							329
APA Z 190226.24	P 1 37.92			S 3				98
AHE Z 190229.36	P 2 43.40			S 3				118
ABA Z 190235.5	P 2 56.16			S 3				165
AWI Z 190234.16	P 2 53.84			S 3				157
CCA Z 190276.7	P 3							498
BGF Z 190321.8	P							
MFF Z 190320.6	P							
SMF Z 190324.0	P							
TCF Z 190324.8	P							
MZF Z 190325.8	P							
CAF Z 190342.8	P							
DOU Z 190248.1	P 1E							260
WLF Z 190308.0	P 1E 50.5			S 3E				456
-1								
180485		44029.88	176.26/ 87.82	5.0 1.3		NW OF TREVOSE HEAD, COR1	1	
						50.646 -5.165	2	
						RMS= 0.19 ERH=637.1 ERZ=***** Q= D	3	
CST Z 044038.70	P							50
CCA Z 044038.86	P							51
CR2 Z 044039.14	P 46.05			S				53
CR2 NS0440					6.6 HO.05ML	1.0 200		53
CR2 EW0440					12.1HO.05ML	1.0 200		53
CBW Z 044039.66	P							56
CGH Z 044039.68	P							66
CCD Z 044039.70	P							57
-1								
180485		182855.89	232.07/ 794.27	0.0 1.4		E OF LOCH LOCHY, HIGH.1	1	
						57.009 -4.766	2	
						RMS= 0.29 ERH= 19.6 ERZ= 14.4 Q= D	3	
ELO Z 182911.10	P E 22.1			S E				88
EAB Z 182912.14	P E 24.4			S 2E				95
EBH Z 182915.5	P E							115
EAU Z 182921.8	P E							153
EDI Z 182922.8	P 3E 40.3			S 2E				155
EDI NS1829					3.5 HO.14ML	0.25 200		155
EDI EW1829					2.5 HO.22ML	0.25 200		155
-1								
190485		1445 2.58	411.32/ 349.23	4.5 1.5		SWINCOE, STAFFS	1	
						53.040 -1.831	2	

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				RMS= 0.15 ERH= 3.3 ERZ= 7.2 Q= D		3
MCH Z 144525.26	P 2E					141
MCH NS1445		41.46		S 3E 6.5 HO.12ML	0.25 200	141
MCH EW1445				6.0 HO.14ML	0.25 200	141
SBO Z 144518.46	P 1E					97
HAE Z 144522.42	P 1E					122
HCG Z 144526.50	P 1E					147
HGH Z 144529.72	P 2E					170
HTR Z 144526.16	P 2E					145
HLM Z 144517.28	P 2E					92
CWF Z 144511.16	P E					49
-1						
200485 CORNWALL					NW OF TREVOSE HEAD, COR1	2
212745.86	174.56/ 89.04	5.0 1.6			50.657 -5.190	2
				RMS= 0.08 ERH= 1.9 ERZ= 2.6 Q= C		3
CSA Z 212753.06	P 2					40
CCA Z 212754.85	P 2					52
CST Z 212754.93	P 2					51
CR2 Z 212755.35	P 2	62.15		S 3		55
CR2 NS2127				5.3 HO.05ML	2.5 200	55
CR2 EW2127				7.8 HO.05ML	2.5 200	55
CBW Z 212755.76	P 2					57
CCO Z 212755.79	P 2					58
CGH Z 212757.50	P 2					67
HTL Z 212756.46	P 3	64.35		S 3		62
-1						
200485 CORNWALL					NW OF TREVOSE HEAD, COR1	2
234256.22	175.82/ 87.96	4.4 1.1			50.648 -5.171	2
				RMS= 0.02 ERH= 4.9 ERZ= 4.8 Q= D		3
CST Z 234305.13	P					50
CR2 Z 234305.58	P	12.39		S		54
CR2 NS2343				3.5 HO.05ML	1.0 200	54
CR2 EW2343				5.9 HO.07ML	1.0 200	54
CBW Z 234305.90	P					56
CCO Z 234306.06	P					57
HTL Z 2343		14.65		S		62
-1						
210485 CORNWALL					NW OF TREVOSE HEAD, COR1	2
142530.35	180.13/ 84.16	7.8 1.1			50.615 -5.108	2
				RMS= 0.29 ERH= 5.4 ERZ= 380.9 Q= D		3
CSA Z 142536.50	P					33
CCA Z 142538.35	P					48
CST Z 142538.68	P					47
CR2 Z 142538.76	P	45.31		S		50
CR2 NS1425				4.0 HO.07ML	1.0 200	50
CR2 EW1425				6.5 HO.07ML	1.0 200	50
CCO Z 142539.26	P					54
CBW Z 142539.40	P					52
HTL Z 142541.00	P	47.81		S		61
-1						
250485					LLEYN PENIN, NW WALES	1
14019.25	240.31/ 343.42	22.6 0.7	5.0		52.964 -4.378	2
				RMS= 0.05 ERH= 0.3 ERZ= 0.2 Q= A		3
YMY Z 014022.97	P 1IU25.5			S 3E		4
YPE Z 014025.47	P 2E					2
YTR Z 014023.2	P 3E					9
YYN Z 014023.07	P 3E					15
YOW Z 014024.4	P 2E 27.89			S 3E		23
YOW NS0140				15.6HO.06ML	0.25 100	23
YOW EW0140				12.5HO.05ML	0.25 100	23
YRE Z 014023.15	P 2E 25.65			S 2E		4
YCL Z 0140		25.84		S 3E		5
YBE Z 014025.0	P 2E					28
YAC Z 014025.95	P 2E0					35
YLL Z 014024.6	P 1IU					24
YUC Z 014023.12	P 1EU					6
YNE Z 014023.17	P 1IU					9
YNA Z 014024.25	P 1IU					21
YRH Z 014024.39	P 1IU					23
YFF Z 014024.73	P 2E 28.43			S 2E		24
-1						
250485 CORNWALL					NW OF TREVOSE HEAD, COR1	2
1332 1.30	166.13/ 88.83	4.0 1.6			50.652 -5.309	2
				RMS= 0.30 ERH= 4.1 ERZ= 9.5 Q= D		3
CCA Z 133210.80	P					52
CPZ Z 133210.95	P					59
CCO Z 133211.66	P					58
CR2 Z 1332		17.70		S		55
CR2 NS1332				6.55HO.08ML	1.0 200	55
CR2 EW1332				10.7HO.08ML	1.0 200	55
DYA Z 133218.00	P	29.95		S		101
DYA NS1332				7.5 HO.07ML	1.0 200	101
DYA EW1332				6.5 HO.08ML	1.0 200	101
DCO Z 1332		32.45		S		108
-1						
260485					ROSEWELL, LOTHIAN	1
155736.31	329.95/ 663.31	2.3 1.0			55.858 -3.119	2
				RMS= 0.07 ERH= 0.4 ERZ= 0.7 Q= B		3
E01 Z 155738.10	P I039.59			S I		8
E01 NS1557				16.0HO.23ML	1.0 200	8
E01 EW1557		39.59		S IU16.0HO.22ML	1.0 200	8
EBL Z 155738.52	P E 40.30			S E		11

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EAU Z 155740.37	P	ID							21
ESY Z 155742.3	P	E							32
EBH Z 155745.4	P	ED							50
-1									
290485	52246.06	291.78/ 707.22	3.1	0.6				GLEN DEVON, TAYSIDE	1
								56.245 -3.747	2
								0.5 ERZ= 2.0 Q= C	3
EBH Z 052249.09	P	IU51.15	S	IU					15
ELO Z 052250.89	P	IU54.18	S	IU					25
EAB Z 052253.0	P	2E 57.6	S	2E					37
EAU Z 052254.78	P	ED							48
EDI Z 052254.91	P	I060.6	S	2E					50
EDI NS0522					4.3 HO.10ML		0.25 200		50
EDI EW0522					3.0 HO.14ML		0.25 200		50
-1									
300485	191417.92	329.74/ 662.74	0.4	1.0				ROSEWELL, LOTHIAN	1
								55.853 -3.122	2
								0.3 ERZ= 0.3 Q= B	3
EDI Z 191420.10	P	I021.52	S	I					9
EDI NS1914		ID			17.5HO.24ML		1.0 200		9
EDI EW1914		IU21.52	S	IU	17.5HO.23ML		1.0 200		9
EBL Z 191420.5	P	ED22.30	S	E					10
EAU Z 191422.32	P	ID							21
EBH Z 191427.36	P	ED							50
ESY Z 191424.31	P	E							33
-1									
010585	22643.41	239.26/ 344.34	23.3	0.9	5.0			LLEYN PENIN, NW WALES	1
								52.972 -4.394	2
								0.4 ERZ= 0.4 Q= A	3
YMY Z 022647.24	P	I1049.84	S	3E					3
YPE Z 022647.25	P	I1049.81	S	1E					3
YTR Z 022647.59	P	I10							10
YYN Z 022648.09	P	2ID							16
YBA Z 022650.04	P	2E							35
YDW Z 022648.53	P	I1U52.12	S	2E					22
YDW NS0226					10.5HO.06ML		1.0 100		22
YDW EW0226					11.7HO.09ML		1.0 100		22
YRE Z 022647.28	P	I1049.96	S	2E					3
YCL Z 022647.37	P	I1050.11	S	3E					5
YBE Z 022649.15	P	2E							27
YRC Z 022650.8	P	2ID							33
YLL Z 022648.85	P	I1U							24
YUC Z 022647.43	P	I10							7
YNE Z 022647.45	P	I10							8
YNA Z 022648.56	P	I1U							21
YRH Z 022648.65	P	I1U							23
YFF Z 022649.1	P	1E 53.15	S	2E					26
-1									
010585	81729.64	312.92/ 238.25	16.7	0.9				NR BRECON, POWYS	1
								52.035 -3.270	2
								0.4 ERZ= 0.7 Q= B	3
MCH Z 081733.98	P	I1U							19
MCH NS0817		37.16	S	3E	22.5HO.08ML		1.0 200		19
MCH EW0817					21.0HO.09ML		1.0 200		19
HAE Z 081738.40	P	1E							50
HCG Z 081737.14	P	1ED							42
HGH Z 081739.10	P	I1U							55
HTR Z 081732.66	P	I1U							5
HLM Z 081739.66	P	2E 47.34	S						60
-1									
020585	25238.75	329.64/ 663.29	0.5	0.8				ROSEWELL, LOTHIAN	1
								55.858 -3.124	2
								1.4 ERZ= 2.2 Q= B	3
EDI Z 025240.92	P	E 42.08	S	2					8
EDI NS0252					1.68HO.1 A				8
EDI EW0252					2.10HO.3 A				8
EAU Z 025243.15	P	EU							21
ESY Z 025245.15	P	ID							33
EBL Z 025241.27	P	ED42.87	S	2					11
-1									
020585	133453.13	329.17/ 663.09	1.8	0.9				ROSEWELL, LOTHIAN	1
								55.856 -3.132	2
								1.1 ERZ= 0.9 Q= C	3
EDI Z 133455.04	P	I056.53	S	I					8
EDI NS1334					16.5HO.14ML		1.0 200		8
EDI EW1334		56.53	S	IU	17.0HO.24ML		1.0 200		8
EBL Z 133455.50	P	ED57.3	S	E					11
ESY Z 133459.35	P	E							33
EBH Z 133462.3	P	E							50
-1									
020585	185843.76	245.33/ 811.62	5.0	0.9	5.0			LOCH NESS, HIGHLAND	1
								57.169 -4.558	2
								59.8 ERZ=123.6 Q= D	3
ELO Z 185859.2	P	E 73.4	S	3E	4.0HO.09ML		0.25 200		93
EAB Z 185861.7	P	E 75.1	S	E	2.6HO.10ML		0.25 200		110
EDU Z 185862.6	P	E							117
EBH Z 185864.8	P	2E							121
-1									
030585	05825.25	166.85/ 83.45	8.7	1.6				NW TREVOSE HEAD, CORN	1
								50.604 -5.295	2
								1.4 ERZ= 32.1 Q= D	3
CSA Z 005832.25	P	37.45	S						40

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CCA Z 005833.30	P							47
CST Z 005833.35	P							46
CR2 Z 005833.80	P	39.88	S					49
CR2 NS0058				7.8 HO.05ML		2.5 200		49
CR2 EW0058				9.4 HO.07ML		2.5 200		49
CBW Z 005834.25	P	40.65	S					52
CCO Z 005834.30	P							53
HTL Z 005837.21	P							72
-1								
050585		214349.09	239.68/ 342.77	21.2 0.6	5.0	LLEYN PENIN, NW WALES		1
						52.958 -4.387		2
				RMS= 0.09	ERH=	0.8 ERZ= 0.7 Q= B		3
YMY Z 214352.6	P	31054.76	S	3E				2
YPE Z 2143		54.95	S	2E				3
YTR Z 214352.87	P	110						10
YYN Z 214353.48	P	1E						16
YOW Z 214354.11	P	2E 55.71	S	3E				23
YOW NS2143					3.7HO.07ML	1.0 100		23
YOW EW2143					5.5HO.06ML	1.0 100		23
YRE Z 214352.72	P	21055.27	S	1E				4
YCL Z 214352.76	P	110						6
YFF Z 214354.40	P	3E 58.11	S					25
-1								
090585		LOWNET				ROSEWELL, LOTHIAN		1
		41940.60	330.30/ 663.51	2.0 0.9		55.860 -3.114		2
				RMS= 0.07	ERH=	1.4 ERZ= 1.8 Q= C		3
EDI Z 041942.52	P	44.00	S					8
EDI NS0419					18.0HO.15ML	1.0 200		8
EDI EW0419					18.2HO.25ML	1.0 200		8
EAU Z 041944.76	P							21
EBL Z 041942.95	P							11
EBH Z 041949.80	P							50
-1								
100585		81453.34	238.32/ 344.15	21.9 0.8	5.0	LLEYN PENIN, NW WALES		1
						52.970 -4.408		2
				RMS= 0.06	ERH=	0.4 ERZ= 0.3 Q= A		3
YMY Z 081456.94	P	11059.37	S	3E				3
YPE Z 081457.0	P	11059.42	S	2E				4
YTR Z 081457.37	P	110						11
YYN Z 081457.96	P	2E						17
YOW Z 081458.25	P	3E 61.87	S	2E				22
YOW NS0814					8.5HO.07ML	1.0 100		22
YOW EW0814					6.5HO.09ML	1.0 100		22
YRE Z 081456.99	P	21059.5	S	3E				2
YCL Z 081457.15	P	11059.85	S	2E				5
YLL Z 081458.76	P	11U						24
YUC Z 081457.2	P	110						8
YNE Z 081457.14	P	110						7
YNA Z 081458.31	P	210						21
YRH Z 081458.31	P	21U						22
YFF Z 081459.02	P	11U62.8	S	2E				26
-1								
140585		202651.65	239.84/ 343.43	23.4 1.1	5.0	LLEYN PENIN, NW WALES		1
						52.964 -4.385		2
				RMS= 0.06	ERH=	0.4 ERZ= 0.3 Q= A		3
YMY Z 202655.5	P	11058.00	S	3E				3
YPE Z 2026		58.05	S	2E				3
YTR Z 202655.83	P	11U						10
YYN Z 202656.32	P	11U						16
YBA Z 202658.25	P	3E						35
YOW Z 202656.8	P	11060.44	S	2E				22
YOW NS2026					6.0 HO.06ML	2.5 100		22
YOW EW2026					6.0 HO.06ML	2.5 100		22
YRE Z 202655.54	P	21058.24	S	2E				3
YCL Z 202655.64	P	21U58.47	S	2E				5
YBE Z 202657.5	P	21						27
YRC Z 202658.36	P	110						34
YLL Z 202657.1	P	11U						24
YUC Z 202655.69	P	11U						7
YNE Z 202655.71	P	110						8
YNA Z 202656.77	P	11U						21
YRH Z 202656.81	P	11U						22
-1								
180585		HEREFORD				MARROW		1
		2258 6.29	323.67/ 188.49	18.1 0.8		NEWPORT GWENT		2
						51.590 -3.102		3
				RMS= 0.05	ERH=	1.7 ERZ= 0.7 Q= C		3
MCH Z 225814.44	P	1E						46
MCH NS2258		20.52	S	1E	9.0 HO.08ML	0.25 200		46
MCH EW2258					7.5 HO.16ML	0.25 200		46
HAE Z 225816.96	P	1E						63
HGH Z 225811.04	P	1E						21
HTR Z 225816.08	P	3E						56
HGH Z 065425.14	P	0E						21
HTR Z 065433.48	P	2E						56
HLM Z 065440.92	P	3E						56
HTL Z 065439.96	P	2E 52.95	S	3E				56
-1								
220585		12 937.99	207.72/ 774.38	1.0 1.2		NR FORT WILLIAM		1
						56.821 -5.151		2
				RMS= 0.27	ERH=	18.7 ERZ= 14.6 Q= D		3
EAB Z 120952.9	P	E 63.7	S	E	9.7HO.09ML	0.25 200		86
ELO Z 120954.1	P	E 66.1	S	E	9.5HO.09ML	0.25 200		97

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EBH Z 120958.0	P E 73.4	S E				120
EDU Z 120960.65	P ED					134
-1						
220585	153131.73	319.77/ 613.37	1.0 0.7		NE OF MOFFAT, DUMF&GA	1
					55.408 -3.267	2
					4.5 ERZ= 4.1 Q= D	3
EBL Z 153139.1	P E 45.4	S E		RMS= 0.53 ERH= 4.5HO.16ML		43
EAU Z 153140.7	P E 47.2	S E			0.25 200	50
ESY Z 153145.0	P E					70
EBH Z 153148.2	P E 60.3	S E				95
ELO Z 153151.9	P E 67.2	S E				122
EDU Z 153153.2	P E					128
-1						
230585	329 1.06	171.18/ 822.60	7.5 1.1	5.0	NR KYLEAKIN, HIGHLAND	1
					57.237 -5.792	2
					1.5 ERZ= 1.3 Q= D	3
KYL Z 032904.36	P 1006.57	S E		RMS= 0.32 ERH=		14
KSB Z 032905.51	P 1008.55	S E		4.1HO.07ML	2.5 200	23
KAR Z 032907.20	P 1011.90	S IU		5.0HO.09ML	2.5 200	36
KAC Z 032908.09	P 1013.15	S E				42
EAB Z 032924.3	P E 39.2	S 3E		6.5HO.10ML	0.25 200	147
ELO Z 032925.8	P E 41.1	S 3E				153
EBH Z 032930.1	P 3E 49.0	S E				178
-1						
230585	HEREFORD	231334.18	302.02/ 234.39	14.3 0.7	MARROW NR BRECON, POWYS	1
					51.999 -3.427	2
					1.5 ERZ= 2.1 Q= C	3
MCH Z 231339.56	P 2E					30
MCH NS2313	43.80	S 2E		13.0HO.1 ML	1.0 200	30
MCH EW2313				14.0HO.1 ML	1.0 200	30
HAE Z 231344.68	P 2E					61
HCG Z 231341.28	P 2E 46.22	S 3E				39
HGH Z 231344.18	P 2E					59
HTR Z 231337.66	P 0E					14
HLM Z 231345.50	P 3E					68
-1						
240585	04753.38	240.29/ 342.97	22.6 0.8	5.0	LLEYN PENIN, NW WALES	1
					52.960 -4.378	2
					0.4 ERZ= 0.4 Q= B	3
YMY Z 004757.04	P 2IE59.70	S 2E		RMS= 0.07 ERH=		3
YPE Z 0047	59.56	S 1E				2
YTR Z 004757.36	P 1IU					9
YYN Z 004757.87	P 1E					16
YOW Z 004758.45	P 2EU62.15	S 1E				23
YOW NS0047				5.9HO.06ML	1.0 100	23
YOW EW0047				4.5HO.05ML	1.0 100	23
YRE Z 004757.23	P 3E					4
YCL Z 004757.43	P 2E					5
YBE Z 004759.3	P 3ED					28
YRC Z 004760.13	P 2IU					35
YLL Z 004758.75	P 1IU					24
YUC Z 004757.26	P 2IU					7
YNA Z 004758.37	P 2ID					21
YRH Z 004758.47	P 1IU					22
YFF Z 004758.84	P 3E 62.5	S 3E				25
-1						
250585	25934.33	330.59/ 663.78	1.5 0.3		POLTON, LOTHIAN	1
					55.862 -3.109	2
					0.6 ERZ= 0.9 Q= B	3
EDI Z 025936.27	P IU37.82	S E		RMS= 0.10 ERH=		8
EDI NS0259				4.5HO.21ML	1.0 200	8
EDI EW0259				4.0HO.14ML	1.0 200	8
EBL Z 025936.65	P 1038.61	S E				11
EAU Z 025938.60	P 1041.94	S E				22
ESY Z 025940.4	P E					32
EBH Z 025943.6	P E					50
-1						
250585	HEREFORD	32039.87	344.15/ 248.06	7.6 0.3	NR HEREFORD, HER & WOR	1
					52.128 -2.816	2
					0.5 ERZ= 55.5 Q= D	3
MCH Z 032043.66	P 1IU			RMS= 0.03 ERH=		19
MCH NS0320	46.36	S 2I		19.0HO.1 ML	0.25 200	19
MCH EW0320				17.0HO.1 ML	0.25 200	19
HAE Z 032043.98	P 1IU46.76	S 3E				21
HTR Z 032045.60	P 1EU					32
-1						
250585	CORNWALL	165757.68	0.85/ 5.24	4.1 2.1	SW OF SCILLY ISLES	1
					49.814 -7.550	2
					RMS= 0.14 ERH= 38.2 ERZ= 8.0 Q= D	3
CPZ Z 165820.91	P 3					146
CR2 Z 165825.40	P 3 45.57	S				175
CR2 NS1658				7.3 HO.09ML	1.0 200	175
CR2 EW1658				8.3 HO.06ML	1.0 200	175
CCO Z 165824.79	P					173
CCA Z 165824.83	P					172
CBW Z 165825.86	P					179
-1						
250585	CORNWALL	173213.31		5.0 3.6	SW SCILLY ISLES	1
					49.447 -7.740	2
					RMS= 0.10 ERH=241.8 ERZ=264.1 Q= D	3
CPZ Z 173240.60	P 2					174
CCA Z 173243.60	P 2					199

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CGH Z 173243.65	P 2								198
CCO Z 173243.80	P 2								199
CST Z 173244.40	P 2								203
CBW Z 173244.46	P 2								205
CR2 Z 173244.10	P 2	66.63		S 3					202
QCO Z 173255.55	P 2								294
DYA Z 173255.92	P 2								295
DYA NS1732					9.1 HO.20ML		2.5	200	295
DYA EW1732					5.7 HO.27ML		2.5	200	295
HTL Z 173256.98	P 2								289
-1									
270585						5.0			
204950.86		239.76/ 343.21	21.9	0.8					
					RMS= 0.04	ERH=	0.2	ERZ=	0.2 Q= A
									LLEYN PENIN, NW WALES
									52.962 -4.386
									2
YMY Z 204954.45	P 11056.95			S 2E					3
YPE Z 204954.47	P 11057.9			S 2E					2
YTR Z 204954.76	P 110								9
YYN Z 204955.37	P 210								16
YOW Z 204955.96	P 21 59.5			S 2E					23
YOW NS2049					4.2HO.05ML		1.0	100	23
YOW EW2049					4.8HO.06ML		1.0	100	23
YRE Z 204954.55	P 110								4
YCL Z 204954.63	P 3E 57.35			S 3E					5
YBE Z 204956.6	P 2E								28
YRC Z 204957.55	P 3E								34
YLL Z 204956.18	P 2E								24
YUC Z 204954.65	P 110								7
YNE Z 204954.66	P 210								8
YNA Z 204955.75	P 110								21
YRH Z 204955.9	P 110								22
YFF Z 204956.35	P 2E 59.97			S 2E					25
-1									
310585									
CORNWALL									SW SCILLY ISLES
52244.76		4.96/ 14.39	0.0	2.1					49.898 -7.503
					RMS= 0.14	ERH=544.0	ERZ=379.5	Q= D	3
CPZ Z 052308.02	P								141
CCO Z 052312.00	P								168
CCA Z 052312.14	P								166
CR2 Z 052312.28	P 32.49			S					170
CR2 NS0523					9.4 HO.08ML		1.0	200	170
CR2 EW0523					8.4 HO.06ML		1.0	200	170
CST Z 052312.40	P								171
CBW Z 052312.88	P								174
-1									
010685									
LOWNET									DWR LNR LOCH NEVIS, HIGHLAND
18 242.52		180.83/ 800.79	6.0	1.7					57.046 -5.614
					RMS= 0.36	ERH=	2.1	ERZ=	3.4 Q= C
EAB Z 180303.10	P E017.1			S E					0.25 200
ELO Z 180304.0	P E 19.6			S E					124
EDU Z 180309.8	P 2E 28.8			S 2E					133
EAU Z 180312.6	P 2E 33.4			S 3E					168
EDI Z 180313.2	P 3E 34.9			S 3E					189
EDI NS1803					4.2 HO.22ML		0.25	200	195
EDI EW1803					2.7 HO.25ML		0.25	200	195
EBH Z 180307.7	P E 25.6			S E					157
MCD Z 1803	24.0			S 2					154
MCD NS1803					9.0 HO.18ML		0.25	200	154
MCD EW1803					6.0 HO.13ML		0.25	200	154
MDD Z 1803	06.9			S 2					88
MVH Z 180304.0	P 2 17.9			S 2					130
KAR Z 180246.46	P 1048.9			S					20
KSB Z 180246.1	P 10								22
KAC Z 180251.6	P 10								54
KYL Z 180248.55	P 52.3			S					31
KYL NS1802					5.0 HO.1 ML		10.0	200	31
KYL EW1802					2.5 HO.1 ML		10.0	200	31
-1									
010685									
ESK									DWR LNR SCUNTHORPE
224745.21		506.56/ 411.39	8.7	2.6					53.588 -0.390
					RMS= 0.36	ERH=	1.8	ERZ=	2.0 Q= D
XAL Z 224814.0	P E 34.2			S E					0.25 200
AWH Z 224807.33	P EU23.6			S E					185
XSO Z 224822.2	P 3E 50.6			S 3E					140
ABA Z 224806.02	P ED20.8			S E					244
ESK Z 224826.9	P 2E 46.8			S 2E					129
ESK NS2248					6.1 HO.19ML		0.25	200	265
ESK EW2248					7.3 HO.14ML		0.25	200	265
MCH Z 224820.94	P 3E								250
MCH NS2248	46.88			S 3E	26.0HO.2 ML		0.25	200	250
MCH EW2248					23.0HO.2 ML		0.25	200	250
AHE Z 224811.17	P E 30.9			S E					169
HAE Z 224818.44	P 3E								226
HPK Z 224800.16	P 10								91
HPK NS2248	10.8			S 2E	6.05HO.12ML		10.0	200	91
HPK EW2248					5.25HO.14ML		10.0	200	91
BMY Z 224801.01	P E 13.3			S 3E					100
OXE Z 224801.95	P 2E								107
HOY Z 224758.65	P 10								80
BUR Z 224753.98	P 41059.6			S 4E					43
CWF Z 224804.00	P 10								113
CWF NS2248					13.6HO.11ML		2.5	200	113
CWF EW2248	17.0			S 3E	7.0 HO.12ML		2.5	200	113
-1									



## PHASE DATA : 1985

020685	ESK	ES211				DWR	LST ANN'S	DUMF&GA	1
	211437.37	307.39/ 594.45	6.4	1.0			55.236	-3.457	2
					RMS= 0.13	ERH=	0.6	ERZ=	0.9 Q= B
ESK Z	211440.98	P IU43.65	S	1E				2.5 200	18
ESK Z	2114				4.0 HO.07ML			2.5 200	18
ESK EW2114					7.4 HO.05ML			2.5 200	18
ECK Z	211441.67	P IU44.61	S	1ED					22
EBL Z	211448.5	P 2E 56.3	S	1EU					65
EAU Z	211448.1	P 1ED							68
EDI Z	211450.5	P 3E 59.9	S	1E				0.25 200	79
EDI NS2114					5.2 HO.28ML			0.25 200	79
EDI EW2114					7.4 HO.25ML			0.25 200	79
XDE Z	211450.8	P 2E							81
XSO Z	211451.0	P 2E							82
ESY Z	211452.1	P 2E 63.3	S	3E					93
XAL Z	211452.7	P 2E 63.2	S	3E					90
EBH Z	211456.2	P 2E							113
EAB Z	211457.0	P 2E							120
-1									
030685	LOWNET	LN434 1186				DWR	LROSEWELL,	LOTHIAN	1
	3 144.83	330.46/ 663.49	0.2	0.1			55.860	-3.111	2
					RMS= 0.04	ERH=	2.7	ERZ=	2.0 Q= D
EDI Z	030147.02	P IU48.49	S	E				0.25 200	9
EDI NS0301					9.8 HO.20ML			0.25 200	9
EDI EW0301					8.3 HO.22ML			0.25 200	9
EBL Z	030147.41	P ED49.4	S	EU					11
EAU Z	030149.38	P ED52.7	S	EU					22
-1									
040685	LOWNET	LN 434				DWR	LROSEWELL,	LOTHIAN	1
	1 1 1.10	328.54/ 664.99	1.1	0.1			55.873	-3.142	2
					RMS= 0.04	ERH=	0.0	ERZ=	0.0 Q= C
EDI Z	010102.76	P IO03.8	S	E				0.25 200	6
EDI NS0101					5.8 HO.25ML			0.25 200	6
EDI EW0101					7.5 HO.20ML			0.25 200	6
EBL Z	010103.95	P E							13
EAU Z	010105.19	P E							20
-1									
040685									
	74623.81	218.70/ 664.66	5.1	0.9			5.0	E OF ROTHESAY, ST CLD	1
					RMS= 0.01	ERH=	0.3	ERZ=	0.2 Q= C
PMS Z	074625.95	P IU							10
PGB Z	074628.79	P IU32.4	S	E					26
PGB NS0746					5.4HO.19ML			1.0 200	26
PGB EW0746					6.0HO.18ML			1.0 200	26
PCA Z	074631.50	P ED							43
PCD Z	074632.97	P ED							53
-1									
060685	LOWNET	LN435 79				DWR	LROSEWELL,	LOTHIAN	1
	204730.03	328.87/ 662.91	2.4	0.9			55.854	-3.136	2
					RMS= 0.06	ERH=	0.3	ERZ=	0.5 Q= B
EDI Z	204731.89	P IO33.21	S	EU					8
EDI NS2047					16.4HO.23ML			1.0 200	8
EDI EW2047					14.0HO.21ML			1.0 200	8
EBL Z	204732.40	P EU33.93	S	EU					11
EAU Z	204733.91	P ED							20
ESY Z	204736.19	P ED							33
EBH Z	204739.09	P E							50
-1									
090685	CORNWALL								
	2 2 1.01	168.30/ 79.22	2.3	0.8			50.566	-5.272	1
					RMS= 0.06	ERH=	17.5	ERZ=	15.4 Q= D
CSA Z	020207.50	P 2 12.40	S						36
CR2 Z	020209.11	P 2 15.05	S						45
CR2 NS0202					2.5 HO.05ML			1.0 200	45
CR2 EW0202					4.7 HO.07ML			1.0 200	45
CCO Z	020209.82	P 2							48
CBW Z	0202	15.85	S	2					48
-1									
110685									
	33355.61	329.41/ 662.92	0.1	0.8			5.0	ROSEWELL, LOTHIAN	1
					RMS= 0.02	ERH=	0.1	ERZ=	0.1 Q= B
EDI Z	033357.78	P IO59.24	S	E					9
EDI NS0333					18.3HO.16ML			1.0 200	9
EDI EW0333					12.6HO.19ML			1.0 200	9
EBL Z	033358.26	P E 60.10	S	E					10
EAU Z	033360.00	P IO							21
ESY Z	033362.09	P E							33
EBH Z	033365.00	P E 71.80	S	E					50
-1									
130685									
	01124.95	329.66/ 663.19	1.7	0.6			5.0	ROSEWELL, LOTHIAN	1
					RMS= 0.09	ERH=	0.5	ERZ=	0.8 Q= B
EDI Z	001126.90	P IO28.39	S	E					8
EDI NS0011					11.6HO.15ML			1.0 200	8
EDI EW0011					8.3HO.21ML			1.0 200	8
EBL Z	001127.27	P 2E 29.1	S	E					11
EAU Z	001129.14	P IO							21
ESY Z	001131.14	P E							33
EBH Z	001133.79	P E 40.9	S	E					50
-1									
140685	LOWNET	LN436				DWR	LROSEWELL,	LOTHIAN	1
	3 023.86	329.34/ 663.51	3.0	0.8			55.860	-3.129	2

## PHASE DATA : 1985

EDI Z 030025.58	P	ED27.02	S	ED	RMS= 0.08 ERH= 0.5 ERZ= 4.5 Q= B	3
EDI NS0300					1.0 200	8
EDI EW0300					12.6HO.21ML	8
EBL Z 030026.33	P	E 27.80	S	E	9.0 HO.22ML	8
EAU Z 030027.80	P	ID				11
ESY Z 030029.88	P	2E				20
EBH Z 030032.81	P	2E 38.65	S	2E		33
-1						49
140685 LOWNET	LN 436				DWR LROSEWELL, LOTHIAN	1
232342.65	329.77/ 663.36	2.4	0.6		55.858 -3.122	2
EDI Z 232344.50	P	ED45.96	S	E	RMS= 0.04 ERH= 0.2 ERZ= 0.2 Q= B	3
EDI NS2323					1.0 200	8
EDI EW2323					6.6 HO.25ML	8
EBL Z 232344.95	P	E 46.68	S	E	6.0 HO.25ML	8
EAU Z 232346.70	P	ID				11
ESY Z 232348.70	P	2E				21
EBH Z 232351.66	P	2E				32
-1						50
150685 CORNWALL					SW SCILLY ISLES	1
13653.07	3.60/ 3.58	2.0	2.2		49.801 -7.510	2
CPZ Z 013716.30	P	3			RMS= 0.14 ERH= 34.0 ERZ= 6.0 Q= D	3
CCO Z 013720.34	P	3				144
CCA Z 013720.47	P	3				170
CR2 Z 013720.50	P	3	40.81	S		169
CR2 NS0137					7.1 HO.10ML	173
CR2 EW0137					6.5 HO.09ML	173
CST Z 013720.72	P	3				173
CBW Z 013721.21	P	3				174
-1						176
150685 CORNWALL					5.0 SW SCILLY ISLES	1
2 759.82	7.93/ 3.19	3.2	2.0		49.800 -7.450	2
CPZ Z 020822.27	P	2			RMS= 0.21 ERH=759.9 ERZ=***** Q= D	3
CCO Z 020826.10	P	3				140
CCA Z 020826.47	P	3				166
CR2 Z 020826.90	P	3	46.26	S	3	165
CR2 NS0208					5.0 HO.10ML	169
CR2 EW0208					7.9 HO.05ML	169
CST Z 020827.00	P	3				170
CBW Z 020827.07	P	3				172
-1						
160685 LOWNET	LN 436	959			DWR LNR FORT WILLIAM, HIGH	1
12 918.06	205.95/ 780.61	7.7	1.5		56.876 -5.185	2
EAB Z 120933.11	P	IU44.2	S	E	RMS= 0.41 ERH= 1.3 ERZ= 2.8 Q= C	3
ELO Z 120934.40	P	IU46.0	S	EU	0.25 200	93
EBH Z 120938.31	P	IUS2.3	S	EU		101
EDU Z 120940.70	P	EU56.3	S	E		125
EAU Z 120943.64	P	2E 62.3	S	2E		138
EDI Z 120944.3	P	2E 62.5	S	2E		157
EDI NS1209					10.0HO.17ML	163
EDI EW1209					10.0HO.17ML	163
EBL Z 120947.2	P	3				163
ESY Z 120948.6	P	3				181
KYL Z 1209		35.0	S			191
KAR Z 120925.1	P	1 29.9	S	2	7.0 HO.05ML	57
KSB Z 120925.0	P	1 29.6	S	2	13.5HO.06ML	40
KAC Z 1209		41.4	S	3		40
-1						70
180685 CORNWALL					SW SCILLY ISLES	1
181255.04		4.0	3.2		49.312 -7.381	2
CPZ Z 181320.00	P	3			RMS= 0.30 ERH= 6.2 ERZ= 4.4 Q= D	3
CGH Z 181323.60	P	3				160
CCA Z 181323.95	P	3				180
CST Z 181323.95	P	3				183
CR2 Z 181324.29	P	3	45.50	S	3	188
HTL Z 181335.74	P	3				186
HTL NS1813					8.9 HO.23ML	279
HTL EW1813					12.0HO.24ML	279
DYA Z 181335.59	P	3				279
DCO Z 181335.15	P	3				278
-1						276
190685 LOWNET	LN 436				DWR LBONNYRIGG, LOTHIAN	1
11556.25	330.84/ 664.29	3.4	0.9		55.867 -3.105	2
EDI Z 011558.08	P	I059.51	S	IU	RMS= 0.16 ERH= 0.7 ERZ= 4.9 Q= B	3
EDI NS0115					1.0 200	8
EDI EW0115					12.4HO.22ML	8
EBL Z 011558.90	P	E 60.31	S	ID	12.1HO.25ML	8
EAU Z 011600.30	P	I003.80	S	E		11
ESY Z 011601.9	P	2E				22
EBH Z 011605.3	P	E 12.2	S	E		31
-1						49
190685 LOWNET	LN 436				DWR LLOCH CARRON, HIGH	1
21 621.24	186.17/ 835.52	5.8	0.7		57.360 -5.556	2
EAB Z 210645.1	P	EUG1.9	S	E	RMS= 0.42 ERH= 6.3 ERZ= 6.8 Q= D	3
ELO Z 210646.0	P	EUG2.5	S	E	2.2 HO.2 ML	0.25 200
						150
						150

PHASE DATA : 1985

KYL Z 210451.0	P 9	52.1	S						7	
KSB Z 210453.76	P 9	56.96	S	6.5 HO.2 ML		0.25	200		19	
KAC Z 210453.46	P 9	56.25	S	21.0HO.15ML		0.25	200		22	
-1										
200685	03017.95	237.06/ 344.86	24.1	0.7	5.0	LLEYN PENIN, NW WALES			1	
						52.976	-4.427		2	
						RMS= 0.03	ERH= 1.2	ERZ= 0.4	Q= C	3
YDW Z 003023.22	P 3E	26.85	S	2E					21	
YDW NS0030					7.3HO.06ML		1.0	200	21	
YDW EW0030					4.5HO.06ML		1.0	200	21	
YRE Z 003021.98	P 21024.59		S	2E					3	
YCL Z 003022.07	P 11U24.91		S	1E					7	
-1										
200685	LOWNET	LN436				DWR	LROSEWELL, LOTHIAN		1	
	101455.87	330.18/ 663.68	5.9	0.8		55.861	-3.116		2	
						RMS= 0.03	ERH= 0.3	ERZ= 0.4	Q= B	3
EDI Z 101457.90	P	E059.33	S	2EU			1.0	200	8	
EDI NS1014					13.0HO.21ML		1.0	200	8	
EDI EW1014					9.2HO.32ML		1.0	200	8	
EBL Z 101458.2	P 1E	60.1	S	2E					11	
EAU Z 101459.99	P 1E	62.9	S	4E					21	
ESY Z 101501.8	P 2E								32	
EBH Z 101505.1	P 1E								50	
-1										
210685	105218.73	238.64/ 343.81	22.7	0.4	5.0	LLEYN PENIN, NW WALES			1	
						52.967	-4.403		2	
						RMS= 0.01	ERH= 0.9	ERZ= 0.2	Q= C	3
YDW Z 105223.92	P 2IU								21	
YDW NS1052					2.0HO.08ML		1.0	100	21	
YDW EW1052					5.0HO.06ML		1.0	100	21	
YRE Z 105222.52	P 11D25.07		S	1E					0	
YCL Z 105222.62	P 21D25.31		S	1E					6	
-1										
210685	LOWNET	LN 437	349			DWR	LROSEWELL, LOTHIAN		1	
	143246.14	329.01/ 663.97	2.7	0.8		55.864	-3.134		2	
						RMS= 0.08	ERH= 0.7	ERZ= 17.2	Q= C	3
EDI Z 143247.81	P	I049.20	S	2E			1.0	200	7	
EDI NS1432					15.5HO.22ML		1.0	200	7	
EDI EW1432					11.3HO.22ML		1.0	200	7	
EBL Z 143248.70	P	E050.13	S	3E					12	
EAU Z 143250.00	P	IO							20	
ESY Z 143252.15	P	2E							33	
EBH Z 143256.0	P	2E							49	
-1										
210685	20 857.95	240.31/ 343.42	23.2	0.6	5.0	LLEYN PENIN, NW WALES			1	
						52.964	-4.378		2	
						RMS= 0.02	ERH= 1.3	ERZ= 0.3	Q= C	3
YDW Z 200903.12	P 3E	06.77	S	1E					21	
YDW NS2009					4.5HO.07ML		1.0	100	21	
YDW EW2009					6.5HO.06ML		1.0	100	21	
YRE Z 200901.85	P 11D04.47		S	2E					1	
YCL Z 200901.9	P 31D04.6		S	3E					5	
-1										
220685	LOWNET	LN 437				DWR	LBONNYRIGG, LOTHIAN		1	
	15931.53	330.89/ 664.36	3.7	0.7		55.868	-3.104		2	
						RMS= 0.09	ERH= 0.5	ERZ= 2.8	Q= B	3
FELT: BILSTON GLEN MINE			S	ED			1.0	200	8	
EDI Z 015933.37	P	IU34.76	S	ED			1.0	200	8	
EDI NS0159					7.4 HO.28ML		1.0	200	8	
EDI EW0159					6.1 HO.30ML		1.0	200	8	
EBL Z 015933.75	P	I035.70	S	IU					11	
EAU Z 015935.70	P	I039.0	S	1E					22	
ESY Z 015937.45	P	2E							31	
EBH Z 015940.71	P	2E							49	
-1										
230685	84938.95		12.6	1.8	5.0	NORTH SEA			1	
						59.546	1.896		2	
						RMS= 0.46	ERH= 6.6	ERZ= 5.8	Q= D	3
LAW Z 0850		22.5	S	4					185	
LAW NS0850					6.0 HO.17ML		0.25	200	185	
LAW EW0850					6.5 HO.1 ML		0.25	200	185	
SAN Z 0850		24.6	S	4					184	
YEL Z 085010.1	P 9	31.9	S						200	
ASK Z 08509.9	P	33.4	S						212	
ODD Z 085016.6	P	46.5	S						272	
SUE Z 0850		36.5	S						231	
KMY Z 08509.0	P	29.0	S						194	
FOO Z 0850		50.1	S						286	
FOO NS0850					3.5 HO.12ML		0.25	200	286	
FOO EW0850					4.5 HO.1 ML		0.25	200	286	
-1										
240685	LOWNET	LN 437	1216			DWR	LBONNYRIGG, LOTHIAN		1	
	35545.06	330.52/ 664.41	6.3	0.2		55.868	-3.110		2	
						RMS= 0.03	ERH= 0.7	ERZ= 0.9	Q= C	3
EDI Z 035547.02	P	I048.50	S	2E			0.25	200	8	
EDI NS0355					14.5HO.22ML		0.25	200	8	
EDI EW0355					11.0HO.22ML		0.25	200	8	
EBL Z 035547.6	P	E 49.35	S	2EU					11	
EAU Z 035549.25	P	IO							22	
-1										
240685	LOWNET	LN 437	1495			DWR	LROSEWELL, LOTHIAN		1	
	234157.73	329.38/ 664.43	2.5	0.8		55.868	-3.129		2	
						RMS= 0.13	ERH= 0.9	ERZ= 2.0	Q= B	3

## PHASE DATA : 1985

EDI Z 234159.42	P	ID60.92	S	2EU	1.0	200	7
EDI NS2341				13.3HO.23ML	1.0	200	7
EDI EW2341				10.5HO.22ML	1.0	200	7
EBL Z 234200.39	P	ID01.79	S	3E			12
EAU Z 234201.64	P	ID					21
ESY Z 234203.6	P	2E					33
EBH Z 234206.58	P	2E 13.4	S	2E			49
-1							
250685 LOWNET	LN 437			DWR	LROSEWELL	LOTHIAN	1
41154.76	329.73/ 663.00	0.0	0.1		55.855	-3.123	2
				RMS= 0.04 ERH=	47.9	ERZ= 40.5	Q= 0
EDI Z 041156.96	P	IU58.41	S	2EU		0.25	200
EDI NS0411				11.1HO.18ML		0.25	200
EDI EW0411				7.9HO.22ML		0.25	200
EBL Z 041157.31	P	ED59.3	S	2EU			10
EAU Z 041159.20	P	E 62.5	S	2E			21
-1							
250685	111341.64	329.60/ 663.65	2.9	0.8	5.0	ROSEWELL	LOTHIAN
					55.861	-3.125	1
				RMS= 0.10 ERH=	1.2	ERZ= 2.2	Q= C
EDI Z 111343.34	P	ID44.78	S	EU			8
EDI NS1113				12.8HO.23ML		1.0	200
EDI EW1113				9.4HO.22ML		1.0	200
EBL Z 111344.10	P	EU45.59	S	ED			11
EAU Z 111345.57	P	ED					21
EBH Z 111350.4	P	E 57.3	S	2E			49
-1							
260685LOWNET	LN 437			DWR	LROSEWELL	LOTHIAN	1
101534.34	328.39/ 662.59	0.1	0.9		2+ 55.851	-3.144	2
FELT UNDERGROUND				RMS= 0.16 ERH=	0.6	ERZ= 0.6	Q= B
EDI Z 101536.41	P	ID37.81	S	ED		1.0	200
EDI NS1015				20.5HO.16ML		1.0	200
EDI EW1015				13.0HO.22ML		1.0	200
EBL Z 101537.12	P	1EU38.62	S	1ED			11
EAU Z 101538.61	P	ID41.80	S	2E			20
ESY Z 101541.15	P	2ED					34
EBH Z 101543.6	P	2EU50.32	S	2E			50
-1							
260685	145352.19	222.70/ 783.55	5.0	0.9	5.0	SPEAN BRIDGE, HIGH	1
					56.909	-4.912	2
				RMS= 0.62 ERH=	42.3	ERZ= 92.5	Q= 0
EAB Z 145406.8	P	E 17.6	S	E 4.3 HO.1 ML		0.25	200
ELO Z 145407.1	P	E 18.8	S	E 4.5 HO.1 ML		0.25	200
EBH Z 145410.1	P	E 23.0	S	E 2.3 HO.13ML		0.25	200
-1							113
280685 LOWNET	LN 438			DWR	LROSEWELL	LOTHIAN	1
43113.19	329.55/ 662.93	0.2	1.9		2+ 55.854	-3.125	2
FELT ROSEWELL				RMS= 0.17 ERH=	0.6	ERZ= 0.6	Q= B
EDI Z 043115.29	P	IU16.88	S	2E		1.0	200
EBL Z 043115.65	P	ID17.18	S	4E			10
EAU Z 043117.50	P	ED20.82	S	4I			21
ESY Z 043119.50	P	ID					33
EBH Z 043122.59	P	ID29.35	S	4E			50
ELO Z 043126.91	P	EU					78
EDU Z 043127.00	P	IU					78
EAB Z 043128.05	P	2E					84
ESK Z 043124.02	P	ID31.32	S	4I			60
ESK NS0431				5.1 HO.24ML		1.0	200
ESK EW0431				7.5 HO.22ML		1.0	200
XSD Z 043125.80	P	IU					68
ECK Z 043126.66	P	ED					75
XAL Z 043135.19	P	ED					125
PCA Z 043126.10	P	2E					73
PGB Z 043128.51	P	1E 39.09	S	4E			85
PGB NS0431				9.2 HO.19ML		1.0	200
PGB EW0431				6.9 HO.16ML		1.0	200
PMS Z 043130.69	P	2E					85
-1							101
280685	23 432.60	329.76/ 663.52	1.7	0.9	5.0	BONNYRIGG, LOTHIAN	1
					55.860	-3.122	2
				RMS= 0.16 ERH=	0.9	ERZ= 1.3	Q= B
EDI Z 230434.49	P	ID35.98	S	E 10.1HO.23M		1.0	200
EDI NS2304				16.1HO.23ML		1.0	200
EDI EW2304				12.3HO.22ML		1.0	200
EBL Z 230435.42	P	ID36.71	S	EU			11
EAU Z 230436.70	P	ID					21
ESY Z 230438.58	P	2E					32
EBH Z 230441.72	P	ID48.41	S	E			50
-1							
300685 CORNWALL		0.11/ 31.79	7.2	2.3		W SCILLY ISLES	1
112052.46					50.051	-7.588	2
				RMS= 0.17 ERH=	28.2	ERZ= 3.8	Q= 0
CPZ Z 112115.10	P	3					144
CCO Z 112119.04	P	3					171
CCA Z 112119.34	P	3					170
CR2 Z 112119.64	P	3 39.25	S				174
CR2 NS1121				9.5 HO.11ML		1.0	200
CR2 EW1121				9.0 HO.07ML		1.0	200
CST Z 112119.83	P	3					174
CBW Z 112120.04	P	3					174
-1							177
300685 CORNWALL						W SCILLY ISLES	1

## PHASE DATA : 1985

	115027.76	4.89/ 20.78	4.0 1.8		49.955 -7.510	2
				RMS= 0.26 ERH=***** ERZ=***** Q= 0		3
CPZ Z	115050.07	P 2	66.90	S 3		140
CCO Z	115054.02	P 3				167
CCA Z	115054.39	P 3				165
CST Z	115054.89	P 3				170
CR2 Z	115054.95	P 3	74.19	S 3		169
CR2 NS	1150				12.1HO.08ML	169
CR2 EW	1150				15.0HO.08ML	169
	-1					
300685	LOWNET LN438				DWR LROSEWELL, LOTHIAN	1
	134939.55	330.30/ 662.76	0.8 1.3		2+ 55.853 -3.113	2
FELT	ROSEWELL			RMS= 0.12 ERH= 0.4 ERZ= 0.6 Q= B		3
EDI Z	134941.71	P IU	43.40	S IU		9
EDI NS	1349				11.0HO.28ML	9
EDI EW	1349				9.4HO.31ML	9
EBL Z	134941.96	P IU	43.85	S IU		10
EAU Z	134943.89	P IU	47.07	S 2IU		21
ESY Z	134945.86	P IU	50.11	S 2IU		32
EBH Z	134949.07	P IU	55.32	S 3E		50
ELO Z	134953.52	P 2E				78
EDU Z	134953.60	P 1EU				78
EAB Z	134954.44	P 2E				85
	-1					
020785					5.0 SHEPTON MALLETT, SOMER	1
	04631.77	357.66/ 142.28	9.0 1.5		51.178 -2.606	2
				RMS= 0.14 ERH= 8.0 ERZ= 19.6 Q= D		3
MCH Z	004647.43	P 3E	58.69	S 2		95
MCH NS	0046				15.9HO.06ML	95
MCH EW	0046				18.5HO.09ML	95
HTL Z	004653.34	P 2EU	68.66	S 2		133
HTL NS	0046				5.9HO.10ML	133
HTL EW	0046				9.5HO.13ML	133
OYA Z	004651.85	P IU	66.12	S 2		125
OYA NS	0046				3.9HO.07ML	125
OYA EW	0046				14.9HO.08ML	125
DCO Z	004652.71	P 2ED				131
	-1					
060785	LOWNET LN 439 485				5.0 OREDMAYN ROSEWELL, LOTHIAN	1
	016 7.40	332.41/ 664.94	12.5 2.6-0.1		55.873 -3.080	2
				RMS= 0.04 ERH= 0.0 ERZ= 0.0 Q= C		3
EDI Z	001609.30	P IU	10.78	S 2E		9
EDI NS	0016				5.8HO.22ML	9
EDI EW	0016				6.0HO.24ML	9
EAU Z	001611.90	P E	15.08	S 2E		24
	-1					
070785					5.0 OREDMAYN KILSYTH HILLS, CENTRAL	1
	201015.18	265.91/ 679.46	11.6-0.1		55.989 -4.150	2
				RMS= 0.11 ERH= 1.5 ERZ= 2.0 Q= C		3
EAB Z	201020.08	P EU	23.4	S 2E		25
EAU Z	201023.12	P E			3.7HO.08ML	46
EBH Z	201023.86	P E	29.8	S 2E		49
PCO Z	201017.40	P IU			1.5HO.10ML	3
	-1					
090785					5.0 OREDMAYN CARSPHAIN FRST, DUM&GA1	1
	102955.78	260.94/ 602.87	0.9 0.8		55.300 -4.191	2
				RMS= 0.19 ERH= 4.7 ERZ= 3.7 Q= D		3
EAU Z	103009.0	P E	18.9	S 2E		76
EDI Z	103010.2	P 3E	21.3	S 4E		94
EAB Z	103012.6	P E	25.4	S 2E		99
EBH Z	103014.9	P 3E	28.7	S 2E		114
ESY Z	103016.3	P 2E			1.7HO.15ML	121
ELO Z	103017.9	P 2E				134
	-1					
090785	CORNWALL				5.0 S.W. SCILLY ISLES, CORNW1	1
	121357.70	10.87/ -4.80	0.5 2.1		49.730 -7.401	2
				RMS= 0.25 ERH=***** ERZ=***** Q= D		3
CPZ Z	121420.67	P				139
CCO Z	121424.24	P				165
CR2 Z	121425.20	P 3	44.72	S 3		168
CR2 NS	1214				7.1HO.10ML	168
CR2 EW	1214				6.5HO.07ML	168
CST Z	121425.45	P 3				169
CBW Z	121426.07	P 3				171
	-1					
120785	N WALES				5.0 LLEYN AFTERSHOCK	1
	53716.83	241.69/ 343.57	23.1 0.5		52.966 -4.358	2
				RMS= 0.08 ERH= 0.6 ERZ= 0.3 Q= A		3
YOW Z	053721.95	P 2E				22
YOW NS	0537				5.1HO.07ML	22
YOW EW	0537		25.52	S 1	4.9HO.05ML	22
YRE Z	053720.57	P 3E				5
YRE EW	0537		23.22	S 1		5
YCL Z	053720.7	P 3E				5
YCL EW	0537		23.44	S 2		5
YMY Z	053720.4	P 9				4
YMY NS	0537		23.05	S 2		4
YTR Z	053720.8	P 9IU	23.45	S 2		8
YYN Z	053721.34	P 9E	24.35	S 2		14
YBA Z	053721.34	P 4	27.74	S 2		33
YBE Z	053631.55	P 9	35.25	S 3		28
YRC Z	053632.45	P 9IU	37.15	S 2		35

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YLL Z 053631.07	P 9IU34.67	S 2							23
YNE Z 053629.68	P 9I032.29	S 2							9
YNA Z 053630.6	P 9E 34.06	S 2							22
YRH Z 053630.87	P 9I 34.5	S 2							24
YFF Z 053815.34	P 9	S 2							24
YFF NS0538	18.94	S 2							24
-1									
140785 CORNWALL					5.0		S.E. NEWQUAY, CORNWALL		1
25054.27	186.09/ 56.50	18.2 0.9					50.369 -5.008		2
					RMS= 0.02	ERH=	0.5 ER7= 0.4 Q= C		3
CSA Z 025057.71	P 110								8
CST Z 025059.17	P 1IU								22
CR2 Z 025059.52	P 1IU63.36	S							25
CTR Z 025059.55	P								25
CME Z 025059.55	P 1IU								25
CRA Z 025059.70	P 1IU								26
CBW Z 025059.55	P 1IU								26
CCA Z 025059.61	P 1IU								26
CCO Z 025060.05	P 1IU								29
CGH Z 025061.20	P 1IU								37
CPZ Z 025062.63	P 2EU								47
CR2 SMO250					2.3HO.04ML		0.25 4		25
-1									
140785 HEREFORD					5.0		ABERDARE, MID GLAMORGAN1		
41051.06	300.31/ 202.47	13.0 0.9					51.712 -3.443		2
					RMS= 0.03	ERH=	1.2 ER7= 6.0 Q= D		3
MCH Z 041058.76	P 2E								44
MCH NS0410	64.52	S 2E			11.0HO.12ML		0.25 200		44
MCH EW0410					9.0HO.1 ML		0.25 200		44
HGH Z 041058.94	P 1E 64.60	S 3E							45
HTR Z 041058.56	P 2E 64.08	S 2E							43
-1									
140785 CORNWALL					5.0		S.W. SCILLY ISLES, CORNW1		
103529.42	1.18/ -6.37	4.7 2.3					49.710 -7.534		2
					RMS= 0.08	ERH=	2.5 ERZ= 1.0 Q= D		3
CPZ Z 103553.06	P 3								149
CGH Z 103556.85	P 3								174
CCA Z 103556.90	P 3								174
CR2 Z 103557.27	P 3 77.52	S 3							177
CR2 NS1035					9.5HO.09ML		1.0 200		177
CR2 EW1035					9.7HO.08ML		1.0 200		177
-1									
140785 N WALES					5.0		LLEYN AFTERSHOCK		1
1357 4.05	242.27/ 344.66	25.7 0.2					52.976 -4.349		2
					RMS= 0.08	ERH=	0.8 ERZ= 0.5 Q= B		3
YOW Z 13579.35	P 3E								100
YOW NS1357	13.0	S 2			9.8 HO.07ML		0.25 100		21
YOW EW1357					12.7HO.06ML		0.25 100		21
YRE Z 13578.17	P 2E								5
YRE NS1357	11.3	S 3							5
YCL Z 13578.33	P 3E								4
YCL EW1357	11.5	S 3							4
YBE Z 135618.9	P 9 22.82	S 3							27
YRC Z 135619.52	P 9 24.55	S 3							34
YLL Z 135618.29	P 9 22.00	S 3							22
YUC Z 135617.00	P 9 19.8	S 3							5
YNE Z 135617.24	P 9 20.21	S 3							10
YRH Z 135618.45	P 9 22.3	S 3							25
YFF Z 13582.61	P 9	S 2							24
YFF NS1358	6.43	S 2							24
-1									
190785							5.0 NR ISLE OF COLL, HIGH		1
338 7.90	133.19/ 771.25	2.9 1.6					56.756 -6.366		2
					RMS= 0.15	ERH=	2.2 ER7= 1.8 Q= C		3
KYL Z 033821.1	P 1030.8	S 2							78
KYL NS0338					6.5 HO.08ML		1.0 200		78
KYL EW0338					5.1 HO.11ML		1.0 200		78
KAR Z 033814.7	P								37
KSB Z 033820.8	P								76
KAC Z 033825.4	P 40.2	S 4							105
EAB Z 033830.6	P EU46.8	S 2E							140
ELO Z 033834.5	P E 54.1	S 2E							166
EBH Z 033838.3	P 4E 59.1	S 2E							185
EDI Z 033843.5	P 4E 68.6	S 4E							218
EDI NS0338					2.5HO.20ML		0.25 200		218
EDI EW0338					2.7HO.18ML		0.25 200		218
-1									
190785 LOWNET							DWR 5.OLBORELAND, DUMF&GALLOWAY1		
215830.64	LN 441 317.29/ 595.49	2.4 1.6					55.247 -3.301		2
					RMS= 0.16	ERH=	1.8 ERZ= 1.7 Q= C		3
ESK Z 215832.85	P IU34.07	S 3IU							10
ESK NS2158					17.9HO.11		2.5 200		10
ESK EW2158					22.5HO.13		2.5 200		10
ECK Z 215833.10	P 3IU35.45	S 3ED							13
EBL Z 215841.19	P EU								61
EAU Z 215842.35	P IU								67
XOE Z 215843.24	P E								83
XSO Z 215843.40	P 2E								72
EDI Z 215843.77	P EU53.08	S 2E					0.25 200		76
EDI NS2158					15.9HO.16ML		0.25 200		76
EDI EW2158					18.1HO.16ML		0.25 200		76
XAL Z 215844.72	P 1E 54.30	S 3E							82



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KAC Z 070205.9	P								54
-1									
010885						5. OREDMAYN POLTON, LOTHIAN			1
4 113.62	330.37/ 664.99	1.5	0.8			55.873 -3.113			2
						RMS= 0.13 ERH= 1.3 ERZ= 1.7 Q= B			3
EDI Z 040115.53	P I016.90			S 2E					7
EDI NS0401					16.1HO.21ML	1.0 200			7
EDI EW0401					10.4HO.22ML	1.0 200			7
EBL Z 040116.40	P EU								12
EAU Z 040117.80	P IO								22
ESY Z 040119.51	P E								32
EBH Z 040122.80	P IO								49
-1									
010885						5. OREDMAYN DOLLAR, FIFE			1
13 227.39	297.62/ 692.06	1.1	1.3			56.110 -3.647			2
						RMS= 0.17 ERH= 0.5 ERZ= 0.8 Q= C			3
EBH Z 130231.01	P IU33.99			S 2E					18
EAU Z 130233.50	P IU38.30			S 2E					32
EDI Z 130234.08	P IU38.94			S 2E					36
EDI NS1302					14.1HO.28ML	0.25 200			36
EDI EW1302					16.6HO.32ML	0.25 200			36
ELO Z 130234.90	P EU41.10			S 2E					40
EAB Z 130235.3	P 1E 41.8			S 2E					44
-1									
020885						5. OREDMAYN KILLIECHONATE FRST, HIG1			1
121831.45	225.49/ 776.26	12.7	0.9			56.845 -4.862			2
						RMS= 0.10 ERH= 1.4 ERZ= 1.6 Q= C			3
EAB Z 121844.78	P E 54.3			S 2E	6.3 0.10	0.25			80
ELO Z 121845.00	P E 55.0			S 2E	4.5HO.09ML	0.25 200			82
EBH Z 121848.63	P E 61.4			S 2E					107
EDU Z 121850.14	P E 64.4			S 2E					118
-1									
020885						5. OREDMAYN ROSEWELL, LOTHIAN			1
1713 5.51	330.31/ 663.46	0.1	0.7			55.859 -3.114			2
						RMS= 0.07 ERH= 0.3 ERZ= 0.3 Q= B			3
EDI Z 171307.70	P EU09.0			S 2E					9
EDI NS1713					8.1HO.28ML	1.0 200			9
EDI EW1713					6.4HO.28ML	1.0 200			9
EBL Z 171308.10	P ED10.1			S 2E					11
EAU Z 171310.04	P ED13.3			S 2E					21
ESY Z 171311.8	P 1E								32
EBH Z 171315.0	P 1E								50
-1									
020885						5. OREDMAYN ROSEWELL, LOTHIAN			1
232315.00	330.06/ 663.13	3.2	0.8			55.856 -3.117			2
						RMS= 0.08 ERH= 0.4 ERZ= 1.7 Q= B			3
EDI Z 232316.82	P IU18.30			S 2E					9
EDI NS2323					6.8HO.31ML	1.0 200			9
EDI EW2323					8.6HO.29ML	1.0 200			9
EBL Z 232317.21	P ED18.72			S 2E					10
EAU Z 232319.17	P IU21.98			S 2E					21
ESY Z 232320.99	P E								32
EBH Z 232323.82	P								50
-1									
020885						5. OREDMAYN NEWTONGRANGE, LOTHIAN			1
232334.06	333.07/ 664.95	7.5	0.3			55.873 -3.070			2
						RMS= 0.08 ERH= 1.6 ERZ= 1.0 Q= C			3
EDI Z 232336.43	P IO37.90			S 2E					9
EDI NS2323					14.5HO.18ML	0.25 200			9
EDI EW2323					11.2HO.27ML	0.25 200			9
EBL Z 232336.57	P E 38.62			S 2E					11
EAU Z 232338.69	P E 41.98			S 2E					24
-1									
070885						5.0 KNOYDART, HIGHLAND			1
7 156.64	182.40/ 801.64	2.6	1.0			57.055 -5.588			2
						RMS= 0.18 ERH= 2.4 ERZ= 4.9 Q= C			3
KYL Z 070202.8	P 06.6			S 2E					32
KAR Z 070200.8	P IO03.5			S 1	10.0HO.08ML	2.5 200			21
KSB Z 070200.4	P IO02.8			S 2					20
KAC Z 070205.95	P IO								53
-1									
070885						5. OREDMAYN NR INNERLEITHEN, BORDER1			1
203534.29	334.23/ 640.03	9.2	0.3			55.649 -3.045			2
						RMS= 0.08 ERH= 0.9 ERZ= 1.4 Q= C			3
EBL Z 203537.31	P IU39.60			S 2E					14
EDI Z 203540.18	P ED44.20			S 2E					32
EDI NS2035					6.5HO.11ML	0.25 200			32
EDI EW2035					4.6HO.10ML	0.25 200			32
EAU Z 203540.24	P EU								34
ESY Z 203541.40	P IU46.21			S 3E					40
EBH Z 203546.54	P 2E								73
EAB Z 203550.79	P 2E 62.80			S 2E					101
-1									
080885						5. OREDMAYN ROSEWELL, LOTHIAN			1
52935.97	330.54/ 663.72	2.5	0.9			55.862 -3.110			2
						RMS= 0.19 ERH= 1.1 ERZ= 2.0 Q= B			3
EDI Z 052937.51	P IO38.78			S 2E					8
EDI NS0529					10.3HO.28ML	1.0 200			8
EDI EW0529					14.0HO.29ML	1.0 200			8
EBL Z 052938.18	P E 39.64			S 2E					11
EAU Z 052940.25	P IO43.40			S 2E					22
ESY Z 052941.89	P IU								



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EBH Z 052944.93	P	EU							
-1									
080885			5.0	OREDMAYN	PENICUIK, LOTHIAN				1
53358.10		324.27/ 660.00	2.9	0.0		55.827	-3.209		2
						RMS= 0.24	ERH= 0.3	ERZ= 14.3	Q= C
E01 Z 053400.50	P	E001.75							11
E01 NS0534						10.0HO.19ML	0.25	200	11
E01 EW0534						6.2HO.20ML	0.25	200	11
E01 Z 053400.77	P	E 01.97							12
E01 Z 053401.38	P	E 03.18							16
-1									
090885			5.0	OREDMAYN	ROSEWELL, LOTHIAN				1
02852.49		330.53/ 664.73	6.1	0.0		55.871	-3.110		2
						RMS= 0.01	ERH= 0.2	ERZ= 0.3	Q= C
E01 Z 002854.42	P	I055.80							8
E01 NS0028						10.8HO.13ML	0.25	200	8
E01 EW0028						9.1HO.21ML	0.25	200	8
E01 Z 002855.03	P	E 56.90							12
E01 Z 002856.70	P	I0							22
-1									
090885			5.0	S.CONSTANTINE,	CORNWALL				1
3 433.49		173.78/ 28.27	5.9	0.4		50.111	-5.164		2
						RMS= 0.03	ERH= 0.3	ERZ= 0.3	Q= C
CCO Z 030434.75	P	1 35.67							4
CBW Z 030434.96	P	1 36.04							6
CR2 Z 0304									6
CR2 NS0304						3.0 HO.04ML	1.0	200	6
CR2 EW0304						4.6 HO.05ML	1.0	200	6
CTR Z 0304		36.26							6
CTR NS0304						2.5 HO.05ML	1.0	200	6
CTR EW0304						6.5 HO.05ML	1.0	200	6
CRA Z 0304		36.27							6
CME Z 0304		36.55							8
CST Z 030435.55	P	2 36.98							9
CCA Z 0304		37.00							10
-1									
090885			5.0	S.CONSTANTINE,	CORNWALL				1
4 924.59		173.76/ 28.89	6.8	0.6		50.116	-5.165		2
						RMS= 0.02	ERH= 0.4	ERZ= 0.3	Q= C
CR2 Z 040926.20	P	1 27.38							6
CR2 NS0409						1.8 HO.04ML	1.0	200	6
CR2 EW0409						2.6 HO.05ML	1.0	200	6
CTR Z 0409		27.40							6
CTR NS0409						1.6 HO.05ML	1.0	200	6
CTR EW0409						3.8 HO.04ML	1.0	200	6
CRA Z 0409		27.43							6
CME Z 0409		27.70							7
CST Z 0409		28.12							9
CCA Z 0409		28.15							9
-1									
090885			5.0	S.CONSTANTINE,	CORNWALL				1
44456.08		173.83/ 28.08	5.9	0.2		50.109	-5.164		2
						RMS= 0.03	ERH= 0.3	ERZ= 0.3	Q= C
CCO Z 044457.35	P	1 58.30							4
CBW Z 044457.57	P	1 58.65							6
CR2 Z 044457.68	P	1 58.85							6
CR2 NS0444						5.5 HO.03ML	1.0	200	6
CR2 EW0444						8.1 HO.05ML	1.0	200	6
CTR Z 0444		58.90							6
CTR NS0444						4.9 HO.05ML	1.0	200	6
CTR EW0444						12.0HO.04ML	1.0	200	6
CRA Z 0444		58.90							7
CME Z 0444		59.20							8
CST Z 044458.15	P	1 59.60							10
CCA Z 0444		59.63							10
-1									
090885			5.0	S.CONSTANTINE,	CORNWALL				1
54239.25		173.51/ 28.15	6.3	0.1		50.110	-5.168		2
						RMS= 0.03	ERH= 0.4	ERZ= 0.4	Q= C
CCO Z 054240.57	P	1							4
CBW Z 054240.80	P	1							6
CR2 Z 054240.92	P	1 42.09							6
CR2 NS0542						5.0 HO.04ML	1.0	200	6
CR2 EW0542						8.1 HO.05ML	1.0	200	6
CTR Z 0542		42.13							6
CTR NS0542						4.6 HO.05ML	1.0	200	6
CTR EW0542						11.5HO.04ML	1.0	200	6
CRA Z 0542		42.12							6
CME Z 0542		42.42							8
CST Z 054241.38	P	1 42.83							10
CCA Z 0542		42.85							10
-1									
090885			5.0	S.CONSTANTINE,	CORNWALL				1
54440.91		173.86/ 28.34	5.8	0.4		50.111	-5.163		2
						RMS= 0.04	ERH= 0.4	ERZ= 0.4	Q= C
CCO Z 054442.10	P	1							4
CBW Z 054442.33	P	1 43.40							5
CR2 Z 054442.45	P	1 43.63							6
CR2 NS0544						7.1 HO.04ML	2.5	200	6
CR2 EW0544						10.7HO.05ML	2.5	200	6
CTR Z 054442.50	P	1 43.65							6
CTR NS0544						6.5 HO.05ML	2.5	200	6

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CTR EW0544					15.3HO.04ML		2.5	200	6
CRA Z 054442.54	P 1	43.65	S 1						6
CME Z 0544		43.95	S 1						7
CST Z 054442.90	P 1	44.35	S 2						9
CCA Z 0544		44.37	S 2						10
-1									
100885		44623.67	329.88/ 663.84	2.6 0.3	5.ORED MAYN ROSEWELL, LOTHIAN				1
						55.863 -3.120			2
					RMS= 0.07 ERH=	1.2 ERZ=151.9 Q= D			3
E01 Z 044625.45	P	E026.79	S 2E						8
E01 NS0446			S 2E		16.0HO.21ML		0.25	200	8
E01 EW0446			S 2E		11.9HO.21ML		0.25	200	8
EBL Z 044626.09	P	EU27.59	S 2E						11
EAU Z 044627.70	P	ED							21
-1									
130885		6 057.10	315.16/ 593.28	3.4 0.9	5.ORED MAYN BORELAND, DUMF&GALLOWAY				1
						55.226 -3.334			2
					RMS= 0.02 ERH=	0.5 ERZ= 1.7 Q= C			3
EBL Z 060108.1	P 2E	17.3	S 3E						64
EAU Z 060109.4	P 2EU		S 3E						69
E01 Z 060111.9	P 3E	21.7	S 3E						78
E01 NS0601			S 3E		5.5HO.19ML		0.25	200	78
E01 EW0601			S 3E		5.3HO.16ML		0.25	200	78
ESY Z 060113.2	P 2E	25.2	S 3E						89
EBH Z 060117.6	P 2E	30.9	S 3E						114
ELO Z 060122.8	P 3E	37.5	S 3E						141
ESK Z 060059.74	P IUG1.75		S 2E		2.2HO.10M		2.5	200	13
ESK NS0600			S 2E		5.3HO.09ML		2.5	200	13
ESK EW0600			S 2E		5.6HO.09ML		2.5	200	13
ECK Z 060059.97	P IUG2.04		S 2I						14
XDE Z 060110.0	P 2E	17.6	S 3E						81
XSO Z 060110.3	P 2E	19.2	S 3E						75
XAL Z 060112.1	P 1E	21.8	S 3E						82
-1									
160885		242 6.50	208.64/ 143.86	0.5 1.5	5.0 N.W.HARTLAND PT, DEVON				1
						51.161 -4.737			2
					RMS= 0.08 ERH=	0.5 ERZ= 0.5 Q= C			3
CSA Z 024222.10	P 2								91
CST Z 024225.39	P 2								112
CCA Z 024225.72	P 2								114
CR2 Z 024225.80	P 2								115
CR2 NS0242					8.7 HO.08ML		1.0	200	115
CR2 EW0242					13.6HO.08ML		1.0	200	115
CBW Z 024226.10	P 2								116
CCO Z 024226.52	P 2								119
CPZ Z 024227.81	P 2								127
CME Z 024225.70	P 2								114
CTR Z 024225.77	P 2								115
CRA Z 024225.90	P 2								115
HTL Z 024211.74	P 1	15.44	S 2						26
HTL NS0242			S 2		13.1HO.11ML		1.0	200	26
HTL EW0242			S 2		14.6HO.10ML		1.0	200	26
DYA Z 0242									99
HTR Z 024230.16	P 1	47.72	S 2						144
MCH Z 024231.52	P 1	49.80	S 2						152
MCH NS0242			S 2		5.0 HO.12ML		0.25	200	152
MCH EW0242			S 2		4.5 HO.10ML		0.25	200	152
-1									
160885		231114.43	173.31/ 28.78	6.6-0.5	5.0 S.CONSTANTINE, CORNWALL				1
						50.115 -5.171			2
					RMS= 0.04 ERH=	0.3 ERZ= 0.2 Q= C			3
CCO Z 231115.70	P 1	16.70	S 2						3
CBW Z 231115.97	P 1	17.15	S 2						6
CR2 Z 231116.00	P 1	17.20	S 1						6
CR2 NS2311			S 1		4.5 HO.05ML		1.0	200	6
CR2 EW2311			S 1		7.8 HO.05ML		1.0	200	6
CTR Z 231116.08	P 1	17.24	S 1						6
CTR NS2311			S 1		8.5 HO.04ML		0.25	200	6
CTR EW2311			S 1		6.3 HO.04ML		0.25	200	6
CRA Z 231116.08	P 1	17.21	S 1						6
CME Z 231116.20	P 1	17.47	S 1						7
CCA Z 231116.37	P 2		S 1						9
CST Z 231116.43	P 1	17.90	S 2						9
-1									
170885		6 426.50	173.44/ 28.61	6.6-0.5	5.0 S.CONSTANTINE, CORNWALL				1
						50.114 -5.169			2
					RMS= 0.03 ERH=	0.3 ERZ= 0.3 Q= C			3
CCO Z 060427.80	P 1	28.80	S 2						3
CBW Z 060428.07	P 1	29.24	S 2						6
CR2 Z 0604		29.31	S 1						6
CR2 NS0604			S 1		6.0 HO.03ML		1.0	200	6
CR2 EW0604			S 1		6.2 HO.04ML		1.0	200	6
CRA Z 060428.16	P 1	29.35	S 1						6
CTR Z 0604		29.36	S 1						6
CTR NS0604			S 1		3.4 HO.04ML		0.25	200	6
CTR EW0604			S 1		9.8 HO.06ML		0.25	200	6
CME Z 0604		29.58	S 1						7
CST Z 0604		30.01	S 2						9
-1									
170885		6 644.96	173.37/ 28.70	6.6-0.5	5.0 S.CONSTANTINE, CORNWALL				1
						50.114 -5.170			2
					RMS= 0.03 ERH=	0.2 ERZ= 0.2 Q= C			3

PHASE DATA : 1985

CCO Z 060646.25	P 1	47.25	S 2						3
CBW Z 060646.51	P 1	47.70	S 2						6
CR2 Z 060646.55	P 1	47.75	S 1						6
CR2 NS0606				4.9 HO.05ML		1.0	200		6
CR2 EW0606				6.6 HO.04ML		1.0	200		6
CRA Z 060646.58	P 1	47.79	S 1						6
CTR Z 060646.60	P 1	47.77	S 1						6
CTR NS0606				7.8 HO.05ML		0.25	200		6
CTR EW0606				4.5 HO.05ML		0.25	200		6
CME Z 060646.75	P 1	48.04	S 1						7
CCA Z 060646.91	P 2								9
CST Z 060646.98	P 1	48.45	S 2						9
-1									
170885 CORNWALL						5.0 S.CONSTANTINE,CORNWALL			1
6 9 8.20	173.36/	28.54	6.6-0.6			50.113	-5.170		2
				RMS= 0.03 ERH=	0.2 ERZ=	0.2	Q= C		3
CCO Z 060909.50	P 1	10.50	S 2						3
CBW Z 060909.77	P 1	10.94	S 2						6
CR2 Z 060909.80	P 1	11.00	S 1						6
CR2 NS0609				4.6 HO.04ML		1.0	200		6
CR2 EW0609				6.3 HO.03ML		1.0	200		6
CTR Z 060909.85	P 1	11.06	S 1						6
CTR NS0609				7.7 HO.05ML		0.25	200		6
CTR EW0609				6.1 HO.04ML		0.25	200		6
CRA Z 060909.85	P 1	11.05	S 1						6
CME Z 060910.00	P 1	11.30	S 1						7
CCA Z 060910.17	P 2								9
CST Z 060910.23	P 1	11.75	S 2						9
-1									
190885						5.0 OREDMAYN ROSEWELL, LOTHIAN			1
2051 2.98	330.19/	663.84	2.2 0.6			55.863	-3.115		2
				RMS= 0.06 ERH=	0.6 ERZ=	0.6	Q= C		3
EDI Z 205104.80	P	1006.29	S 2E						8
EDI NS2051				6.1HO.22ML		1.0	200		8
EDI EW2051				7.5HO.22ML		1.0	200		8
EBL Z 205105.39	P E	07.00	S 2E						11
EAU Z 205107.01	P	1010.21	S 2E						21
EBH Z 205111.91	P E								49
-1									
190885						5.0 OREDMAYN ROSEWELL, LOTHIAN			1
211326.12	330.73/	662.90	2.4 0.2			55.854	-3.107		2
				RMS= 0.07 ERH=	0.2 ERZ=	0.2	Q= C		3
EDI Z 211328.14	P	E029.49	S 2E						9
EDI NS2113				11.2HO.22ML		0.25	200		9
EDI EW2113				7.4 HO.27ML		0.27	200		9
EBL Z 211328.32	P E	29.82	S 2E						10
EAU Z 211330.40	P	E033.31	S 2E						
-1									
200885						5.0 OREDMAYN ROSEWELL, LOTHIAN			1
6 020.71	330.65/	663.72	1.8 0.8			55.862	-3.108		2
				RMS= 0.08 ERH=	0.7 ERZ=	0.7	Q= C		3
EDI Z 060022.70	P	I024.19	S 2E						8
EDI NS0600				13.1HO.19ML		1.0	200		8
EDI EW0600				13.2HO.20ML		1.0	200		8
EBL Z 060023.09	P	EU24.88	S 2E						11
EAU Z 060024.92	P	I028.19	S 2E						22
EBH Z 060030.00	P E								50
-1									
210885						5.0 BLACK MOUNTAINS, POWYS			1
324 9.29	315.54/	227.14	15.4 2.5			51.936	-3.229		2
				RMS= 0.08 ERH=	1.0 ERZ=	0.8	Q= C		3
MCH Z 032413.04	P	OIU16.01	S 1E	3.0 HO.08M		2.5	4		17
SBD Z 032427.10	P	2E 38.24	S 2E						108
HAE Z 032417.62	P	OIU							48
HCG Z 032418.28	P	OIO							52
HTR Z 032412.93	P	OIO							16
HLM Z 032420.72	P	1EU29.01	S 2E						69
YDW Z 032423.57	P	3EU							155
YDW NS0324		52.84	S 3	7.0 HO.1 ML		1.0	100		155
YDW EW0324				6.5 HO.08ML		1.0	100		155
CR2 NS0324				7.5 HO.06ML		1.0	200		239
CR2 EW0324				11.2HO.06ML		1.0	200		239
CR2 Z 032442.66	P	3E							239
EDI Z 032508.5	P	4E 54.3	S 4						444
EDI NS0325				3.6HO.2 ML		0.25	200		444
EDI EW0325				2.6HO.25ML		0.25	200		444
-1									
210885						5.0 OREDMAYN ROSEWELL, LOTHIAN			1
20 311.13	329.48/	663.40	2.2 0.7			55.859	-3.127		2
				RMS= 0.08 ERH=	0.6 ERZ=	0.6	Q= B		3
EDI Z 200312.98	P	I014.29	S 2E						8
EDI NS2003				13.0HO.15ML		1.0	200		8
EDI EW2003				9.0HO.22ML		1.0	200		8
EBL Z 200313.50	P E	15.18	S 2E						11
EAU Z 200315.15	P	I018.10	S 2E						21
EBH Z 200320.08	P E	26.80	S 2E						49
-1									
230885 LOWNET LN 446						DWR 5.0 ROSEWELL, LOTHIAN			1
1714 8.32	329.78/	663.72	1.0 0.7			3+ 55.862	-3.122		2
FELT BILSTON GLEN PIT(U/G) DEPTH FIXED.				RMS= 0.10 ERH=	0.8 ERZ=	1.1	Q= B		3
EDI Z 171410.25	P	E011.68	S 2E0						8
EDI NS1714				13.8HO.16ML		1.0	200		8

## PHASE DATA : 1985

EDI EW1714					9.3HO.22ML	1.0	200	8
EBL Z 171410.91	P 2E 12.71		S 1E					11
EAU Z 171412.72	P 1D14.91		S 3E					21
ESY Z 171414.61	P 2E							32
EBH Z 171417.80	P 2E							49
-1								
290885	32726.71	323.35/ 665.57	0.1 0.7		5.ORED MAYN NR LOANHEAD, LOTHIAN			1
					55.877	-3.225		2
					RMS= 0.15 ERH= 49.8 ERZ= 34.1 Q= D			3
EDI Z 032728.00	P 1029.23		S 2E					6
EDI NS0327					11.0HO.13ML	1.0	200	6
EDI EW0327					14.5HO.22ML	1.0	200	6
EAU Z 032730.21	P 1032.41		S 2E					15
EBH Z 032735.25	P E041.91		S 2E					45
-1								
290885	204356.83	328.94/ 663.05	2.9 0.1		5.ORED MAYN ROSEWELL, LOTHIAN			1
					55.855	-3.135		2
					RMS= 0.16 ERH= 1.5 ERZ= 26.5 Q= C			3
EDI Z 204358.72	P 1060.00		S 2E					8
EDI NS2043					9.9 HO.16ML	0.25	200	8
EDI EW2043					8.6 HO.26ML	0.25	200	8
EBL Z 204359.10	P E 60.71		S 2E					11
EAU Z 204400.92	P E003.11		S 2E					20
-1								
300885	205555.11	329.46/ 663.22	0.4 0.7		5.ORED MAYN ROSEWELL, LOTHIAN			1
					55.857	-3.127		2
					RMS= 0.07 ERH= 0.5 ERZ= 0.6 Q= B			3
EDI Z 205557.23	P 1058.50		S 2E					8
EDI NS2055					13.0HO.16ML	1.0	200	8
EDI EW2055					8.6HO.22ML	1.0	200	8
EBL Z 205557.77	P EU59.22		S 2E					11
EAU Z 205559.46	P 1062.60		S 2E					21
ESY Z 205601.52	P E							33
EBH Z 205604.43	P E							50
-1								
310885	2 612.25	329.50/ 662.77	1.8 0.8		5.ORED MAYN ROSEWELL, LOTHIAN			1
					55.853	-3.126		2
					RMS= 0.11 ERH= 0.6 ERZ= 1.1 Q= B			3
EDI Z 020614.14	P 1015.68		S 2E					9
EDI NS0206					9.7HO.22ML	1.0	200	9
EDI EW0206					10.3HO.26ML	1.0	200	9
EBL Z 020614.50	P E 16.18		S 2E					10
EAU Z 020616.32	P 1019.52		S 2E					21
ESY Z 020618.50	P E							33
EBH Z 020621.41	P E							50
-1								
310885N WALES	1524 6.78	238.81/ 344.35	23.5 0.8		5.0 LLEYN PENIN, NW WALES			1
					52.972	-4.401		2
					RMS= 0.01 ERH= 0.2 ERZ= 0.1 Q= B			3
YOW Z 152411.99	P 2E							22
YOW NS1524	15.55		S 1		10.9HO.06ML	1.0	100	22
YOW EW1524					8.0 HO.06ML	1.0	100	22
YRE Z 152410.6	P 11D							2
YRE EW1524	13.17		S 2					2
YRH Z 152411.96	P 2E							22
YLL Z 152412.21	P 3E							24
YUC Z 152410.8	P 11D							8
-1								
020985	72651.61	329.85/ 663.14	2.7 0.6		5.ORED MAYN ROSEWELL, LOTHIAN			1
					55.856	-3.121		2
					RMS= 0.10 ERH= 0.6 ERZ= 1.8 Q= C			3
EDI Z 072653.40	P 1054.15		S 2E					9
EDI NS0726					9.3HO.18ML	1.0	200	9
EDI EW0726					6.5HO.22ML	1.0	200	9
EBL Z 072653.89	P E 55.39		S 2E					10
EAU Z 072655.61	P E 58.52		S 2E					21
EBH Z 072700.69	P E							50
-1								
040985	217 8.39	329.85/ 663.03	1.1 0.7		5.ORED MAYN ROSEWELL, LOTHIAN			1
					55.855	-3.121		2
					RMS= 0.13 ERH= 1.5 ERZ= 1.3 Q= C			3
EDI Z 021710.51	P 1011.89		S 2E					9
EDI NS0217					8.5HO.19ML	1.0	200	9
EDI EW0217					7.7HO.28ML	1.0	200	9
EBL Z 021710.91	P E 12.50		S 2E					10
EAU Z 021712.75	P 1015.68		S 2E					21
EBH Z 021717.80	P ED							50
-1								
050985	33651.53	331.02/ 664.01	2.4 0.7		5.ORED MAYN POLTON, LOTHIAN			1
					55.864	-3.102		2
					RMS= 0.14 ERH= 0.7 ERZ= 1.3 Q= B			3
EDI Z 033653.50	P 1054.80		S 2E					8
EDI NS0336					9.0HO.25ML	1.0	200	8
EDI EW0336					8.1HO.27ML	1.0	200	8
EBL Z 033654.00	P EU55.50		S 2E					11
EAU Z 033655.71	P 1058.55		S 2E					22
ESY Z 033657.21	P E							31
EBH Z 033700.71	P E							50
-1								
050985	HEREFORD	145637.10	390.69/ 349.03	11.6 1.5	5. OFORD LEEK, STAFFORDSHIRE			1
					53.038	-2.139		2
					RMS= 0.06 ERH= 19.8 ERZ= 11.9 Q= D			3

PHASE DATA : 1985

SBD Z 145649.84	P EU							77
HLM Z 145649.89	P 1E							77
HAE Z 145655.61	P 1E							115
MCH Z 145657.61	P 2E 74.10		S 2E					130
MCH NS1456				9.0HO.12ML		0.25 200		130
MCH EW1456				6.1HO.13ML		0.25 200		130
HTR Z 145658.91	P 2E							131
-1								
050985 HEREFORD				5.0FORD		N OF COLWYN BAY, CLWYD		1
15 1 4.55	290.16/ 385.70	4.1 2.1		RMS= 0.14 ERH=		53.357 -3.651		2
						1.3 ERZ= 1.3 Q= C		3
SBD Z 150114.10	P IO							57
HLM Z 150122.37	P IO34.59		S 2E					107
HCG Z 150123.35	P 2E							115
HTR Z 150128.18	P 1E							145
MCH Z 150129.81	P 2E 48.23		S 3E					158
MCH NS1501				9.6HO.21ML		1.0 200		158
MCH EW1501				7.9HO.12ML		1.0 200		158
HAE Z 150131.20	P 1E							165
YOW Z 150112.9	P 1IU							49
YOW NS1501				11.5HO.1 ML		1.0 100		49
YOW EW1501	18.48		S 3	9.0 HO.1 ML		1.0 100		49
YRC Z 150114.97	P 2IU							63
YRE Z 150115.79	P 3E							67
YRE NS1501	23.34		S 3					67
YRH Z 150118.94	P 3E							88
YLL Z 150111.86	P 1IU							42
YUC Z 150114.52	P 1IO							59
-1								
060985				5.0		ROSEWELL, LOTHIAN		1
172710.80	329.94/ 662.77	0.0 0.7		RMS= 0.10 ERH=		55.853 -3.119		2
				5.1 HO.28M		0.6 ERZ= 0.7 Q= B		3
EDI Z 172713.05	P IO14.32		S E	7.6 HO.27ML		1.0 200		9
EDI NS1727				7.8 HO.28ML		1.0 200		9
EDI EW1727						1.0 200		9
EBL Z 172713.48	P E 15.03		S E					10
EAU Z 172715.30	P IO							21
ESY Z 172717.2	P E							32
EBH Z 172720.3	P E							50
-1								
070985N WALES				5.0		LLEYN PENIN, NW WALES		1
2 431.19	238.54/ 343.32	24.3 0.5		RMS= 0.02 ERH=		52.963 -4.404		2
						0.7 ERZ= 0.3 Q= C		3
YOW Z 020436.6	P 2E			4.0 HO.06ML		1.0 100		23
YOW NS0204				4.0 HO.06ML		1.0 100		23
YOW EW0204	40.3		S 2					2
YRE Z 020435.07	P 3E		S 2					2
YRE NS0204	37.83							2
YRH Z 020436.37	P 1IU							21
YLL Z 020436.85	P 2IU							25
-1								
090985				5.0		ROSEWELL, LOTHIAN		1
132719.69	329.86/ 662.89	2.3 0.8		RMS= 0.09 ERH=		55.854 -3.121		2
				6.5 HO.22M		0.7 ERZ= 0.9 Q= B		3
EDI Z 132721.60	P IO23.06		S E	9.5 HO.23ML		1.0 200		9
EDI NS1327				9.0 HO.25ML		1.0 200		9
EDI EW1327						1.0 200		9
EBL Z 132721.79	P E 23.59		S E					10
EAU Z 132723.80	P IO							21
ESY Z 132725.9	P 3E							32
EBH Z 132728.8	P 3E							50
-1								
100985				5.0		ROSEWELL, LOTHIAN		1
33432.98	330.51/ 662.21	4.0 0.2		RMS= 0.21 ERH=		55.848 -3.110		2
				3.5 HO.10M		0.7 ERZ= 3.7 Q= C		3
EDI Z 033435.11	P EO36.33		S E	5.4 HO.16ML		1.0 200		10
EDI NS0334				3.5 HO.13ML		1.0 200		10
EDI EW0334						1.0 200		10
EBL Z 033435.30	P E 36.33		S E					9
EAU Z 033437.31	P EO40.20		S E					22
-1								
100985				5.0		ROSEWELL, LOTHIAN		1
1555 0.91	329.57/ 663.32	2.6 0.7		RMS= 0.08 ERH=		55.858 -3.125		2
				6.5 HO.26M		0.4 ERZ= 2.5 Q= B		3
EDI Z 155502.70	P IO04.00		S E	8.5 HO.18ML		1.0 200		8
EDI NS1555				8.5 HO.26ML		1.0 200		8
EDI EW1555						1.0 200		8
EBL Z 155503.19	P EU04.69		S 2E					11
EAU Z 155504.90	P IO07.81		S 2E					21
ESY Z 155507.0	P 2E							33
EBH Z 155509.9	P 2E							50
-1								
110985N WALES				5.0		LLEYN PENIN, NW WALES		1
181519.34	240.06/ 343.30	20.7 0.7		RMS= 0.06 ERH=		52.963 -4.382		2
						1.3 ERZ= 0.7 Q= C		3
YOW Z 181524.26	P 1IO			5.8 HO.08ML		1.0 100		23
YOW NS1815				3.9 HO.09ML		1.0 100		23
YOW EW1815	27.80		S 1					4
YRE Z 181522.85	P 1IO		S 2					4
YRE NS1815	25.06							4
YRH Z 181524.26	P 1IU							22
YLL Z 181524.6	P 1IU							24

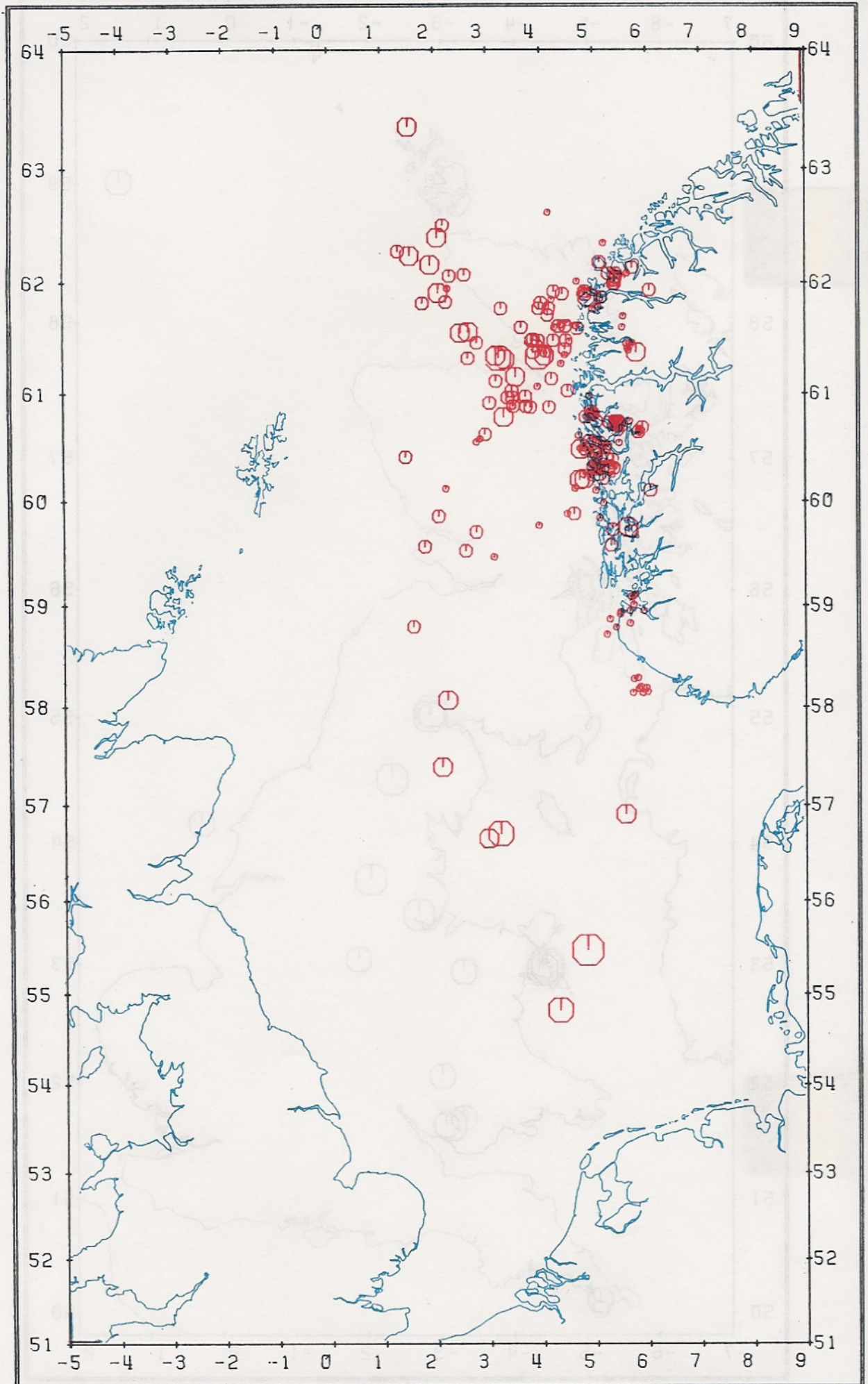


Fig.6 : Epicentres in the North Sea, 1985



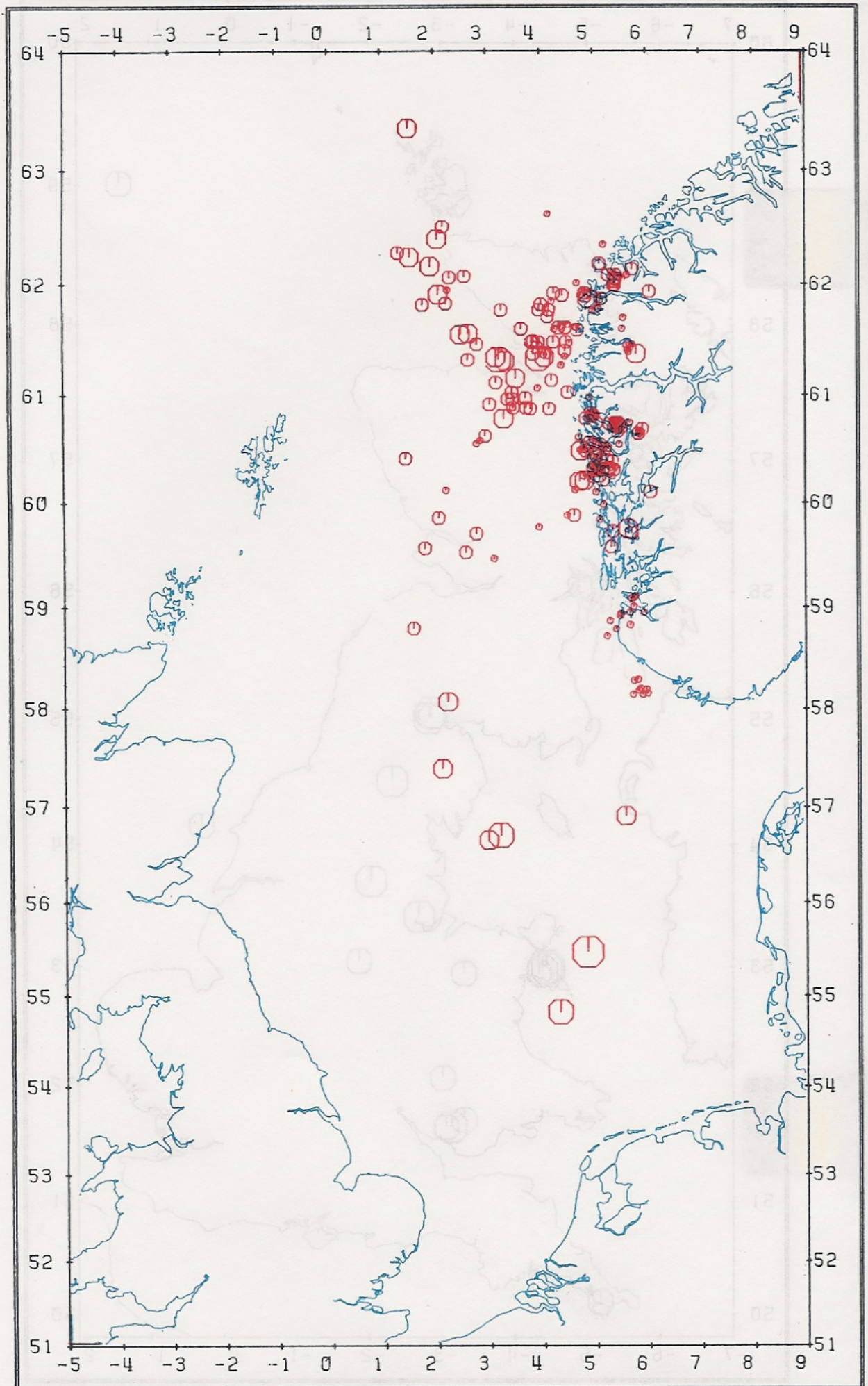


Fig.6 : Epicentres in the North Sea, 1985



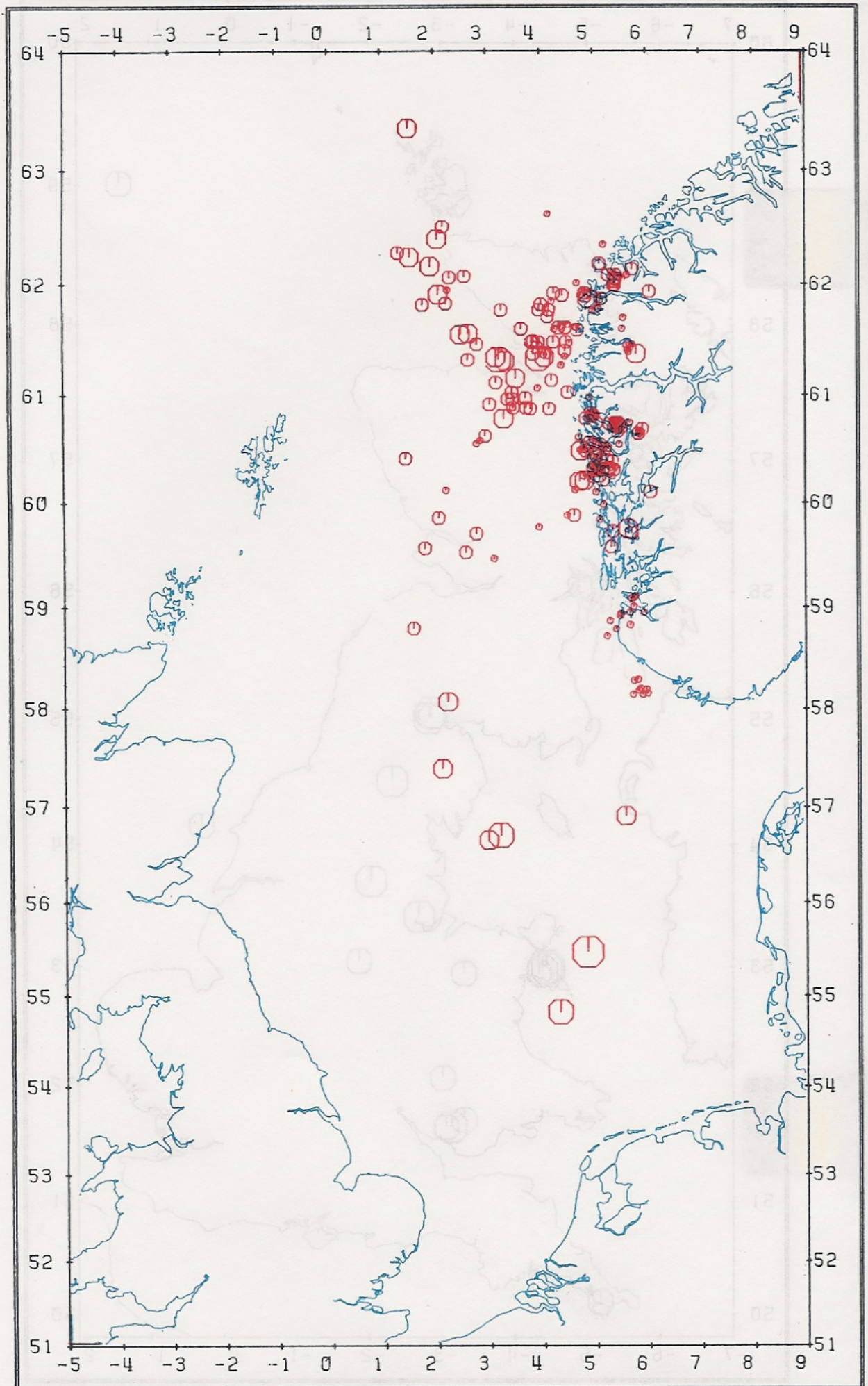


Fig.6 : Epicentres in the North Sea, 1985



PHASE DATA : 1985

YUC Z 181522.85	P 3E								7
-1									
120985 CORNWALL					5.0		W. DARTMOUTH, DEVON		1
030 5.79	278.49/ 53.97	0.9 1.8					50.372 -3.709		2
					RMS= 0.24 ERH=		3.1 ERZ= 2.5 Q= D		3
CSA Z 003020.55	P 1								84
CBW Z 003023.60	P 2								103
CST Z 003023.80	P 2								106
CR2 Z 003024.24	P 2 36.31		S 2						107
CR2 NS0030					9.5 HO.07ML		1.0 200		107
CR2 EW0030					8.5 HO.07ML		1.0 200		107
HTL Z 003021.00	P 1 31.97		S 2						88
CCO Z 003024.60	P 2								109
CCA Z 003024.70	P 2								110
HTL NS0030					5.1 HO.12ML		1.0 200		88
HTL EW0030					4.3 HO.14ML		1.0 200		88
DYA Z 003009.25	P 0 12.32		S 2						17
OCO Z 003008.44	P 0 10.85		S 2						13
-1									
120985					5.0		POLTON, LOTHIAN		1
03929.90	330.22/ 663.60	2.8 0.2					55.861 -3.115		2
					RMS= 0.04 ERH=		0.0 ERZ= 0.8 Q= C		3
EDI Z 003931.81	P I033.09		S E		4.0 HO.11M		1.0 200		8
EDI NS0039					5.9 HO.14ML		1.0 200		8
EDI EW0039					4.0 HO.12ML		1.0 200		8
EBL Z 003932.21	P ED33.80		S EU						11
EAU Z 003934.02	P I036.92		S E						21
-1									
120985					5.0		ROSEWELL, LOTHIAN		1
15151.92	328.89/ 662.09	0.7 0.7					55.847 -3.136		2
					RMS= 0.14 ERH=		1.3 ERZ= 1.3 Q= B		3
EOI Z 015154.01	P IO		E		6.3 HO.25M		1.0 200		9
EOI NS0151					7.2 HO.24ML		1.0 200		9
EOI EW0151					8.3 HO.25ML		1.0 200		9
EBL Z 015154.47	P ED56.01		S E						10
EAU Z 015156.21	P I059.18		S E						20
ESY Z 015158.6	P 2E								34
EBH Z 015201.25	P 2E								50
-1									
120985					5.0		ROSEWELL, LOTHIAN		1
203336.39	327.83/ 662.82	2.9 0.1					55.853 -3.153		2
					RMS= 0.07 ERH=		0.5 ERZ= 8.1 Q= D		3
EDI Z 203338.29	P EU39.52		S E		9.3 HO.28M		0.25 200		8
EDI NS2033					13.5HO.16ML		0.25 200		8
EDI EW2033					8.9 HO.22ML		0.25 200		8
EBL Z 203338.87	P E 40.4		S E						11
EAU Z 203340.06	P E								19
-1									
130985N WALES					5.0		LLEYN PENIN, NW WALES		1
43646.86	254.77/ 338.36	19.3 0.4					52.923 -4.161		2
					RMS= 0.42 ERH=		8.5 ERZ= 10.2 Q= D		3
YDW Z 043652.97	P 2E								29
YDW NS0436		56.68	S 1		6.5 HO.07ML		0.25 100		29
YDW EW0436					6.4 HO.09ML		0.25 100		29
YRE Z 043651.17	P 1IU								19
YRE NS0436		53.9	S 2						19
YRH Z 043653.15	P 2I								33
YLL Z 043651.17	P 1IU								24
YUC Z 043651.15	P 1IU								12
-1									
140985					5.0		POLTON, LOTHIAN		1
43752.02	330.65/ 663.82	2.4 0.7					55.863 -3.108		2
					RMS= 0.02 ERH=		0.1 ERZ= 0.0 Q= C		3
EDI Z 043753.94	P I055.27		S E		5.5 HO.22M		1.0 200		8
EDI NS0437					7.8 HO.21ML		1.0 200		8
EDI EW0437					7.2 HO.28ML		1.0 200		8
EBL Z 043754.34	P E 55.98		S E						11
EAU Z 043756.20	P IO								22
-1									
160985 UKNET					5.0DWR		LARDENTINNY, STRATHCLYDE		1
205014.27	218.69/ 686.53	6.1 3.5					56.037 -4.911		2
DUNOON EARTHQUAKE. FELT	AREA=3,500	SQ KM			RMS= 0.13 ERH=		0.7 ERZ= 1.3 Q= B		3
PMS Z 205018.52	P I021.17		S 3E				10.0 200		24
PGB Z 205020.75	P IU24.58		S 3E						37
EAB Z 205021.16	P IU25.97		S 2IO						39
PCO Z 205023.05	P IU29.12		S 4E						51
PCA Z 205023.60	P IU28.41		S 4EU						56
ELO Z 205028.51	P IU38.41		S 3EU						89
EBH Z 205028.80	P 2EU39.25		S 3ED						90
EAU Z 205029.59	P IU42.15		S 4E						94
EOI Z 205031.65	P EU44.59		S 2E						108
KAR Z 205032.55	P IO45.21		S 2EU						113
EBL Z 205033.69	P IU47.43		S 3ED						120
EDU Z 205034.96	P 2ED50.11		S 4ED						130
ESK Z 205035.62	P IU50.20		S 2E						134
ESY Z 205037.25	P 2IU								144
ECK Z 205037.38	P 3E								147
KYL Z 205037.79	P 3E 56.02		S 4E						152
MDO Z 205038.49	P 3EU57.20		S 3E						160
KAC Z 205039.24	P 3ED56.80		S 4E						165
XSO Z 205041.85	P 1EU61.21		S 3E						178
HPK Z 205047.9	P 4E 87.7		S 4E						313

## PHASE DATA : 1985

HPK NS2050	E		E 14.3HO.42ML	0.25	100	313
HPK EW2050	E		E 14.4HO.42ML	0.25	100	313
-1						
160985 LOWNET	LN449	1443	12.5	5.0DWR	LARDENTINNY, STRATHCLYDE1	
205431.68	221.48/	686.02	4.1 0.4		56.034 -4.866	2
DUNOON AFTERSHOCK				RMS= 0.37 ERH=	4.7 ERZ= 4.4 Q= D	3
EAB Z 205438.6	P E	42.6	S 2E			37
PMS Z 205436.10	P	1038.82	S 2E	5.4HO.12ML	1.0	200
PCO Z 205440.38	P E	47.26	S 2E	2.2HO.09ML	0.25	200
PCA Z 205440.48	P E	47.80	S 2E	2.4HO.10ML	0.25	200
-1						
160985 LOWNET	LN449	1457	12.5	5.0DWR	LARDENTINNY, STRATHCLYDE1	
215616.68	224.82/	684.82	2.4 0.8		56.024 -4.811	2
DUNOON AFTERSHOCK				RMS= 0.16 ERH=	1.2 ERZ= 0.9 Q= C	3
EAB Z 215623.11	P	EU27.4	S 2E		0.25	200
EBH Z 215631.2	P E		S 2E			35
ELO Z 215631.4	P E	41.2	S 2E			85
EDI Z 215634.2	P E	48.0	S 2E			84
EDI NS2156			S 2E			102
EDI EW2156				2.2 HO.12ML	0.25	200
PMS Z 215620.52	P	1023.29	S 2E	1.8 HO.14ML	0.25	200
PGB Z 215622.63	P 2E	26.83	S 2E	15.4HO.12M	1.0	200
PCO Z 215625.02	P 2EU		S 2E	2.4HO.10M	1.0	200
PCA Z 215625.56	P 2E	31.22	S 3E	8.5HO.10M	0.25	200
				6.4HO.11M	0.25	200
-1						
170985				5.0	POLTON, LOTHIAN	1
114232.99	329.87/	663.73	1.5 0.4		55.862 -3.121	2
EDI Z 114235.00	P	EU36.40	S	RMS= 0.07 ERH=	0.5 ERZ= 0.7 Q= B	3
EDI NS1142			S E	10.0HO.31M	1.0	200
EDI EW1142				5.0 HO.22ML	1.0	200
EBL Z 114235.42	P	ED37.39	S EU	3.6 HO.28ML	1.0	200
EAU Z 114237.2	P 3E					11
ESY Z 114239.12	P	ED				21
EBH Z 114242.17	P E					32
-1						49
170985				5.0	LISMORE, HIGHLAND	1
13 234.88	191.74/	745.58	8.4 1.9		56.556 -5.389	2
EAB Z 130247.03	P 2E	59.2	S 3E	RMS= 0.29 ERH=	2.5 ERZ= 4.7 Q= C	3
ELO Z 130252.0	P 2E	64.0	S 3E			77
EBH Z 130254.8	P 2EU	70.3	S 3E			104
EDI Z 130255.3	P 3E	75.7	S 3E			121
EDI NS1302						154
EDI NS1302				4.1HO.20M	0.25	200
EDI EW1302				11.9HO.20ML	0.25	200
EDU Z 130259.5	P 4EU			7.4HO.21ML	0.25	200
EBL Z 130260.8	P 3E					154
PMS Z 130249.40	P	ED				146
PCO Z 130251.44	P	E063.6	S E			170
PGB Z 130251.6	P 2E	63.4	S E			89
PCA Z 130254.1	P E					102
-1						101
180985N WALES				5.0	LLEYN PENIN, NW WALES	1
22939.88	238.76/	343.99	23.4 1.4		52.969 -4.401	2
YDW Z 022945.06	P	110		RMS= 0.04 ERH=	0.7 ERZ= 0.5 Q= B	3
YDW NS0229		48.66	S 1	13.4HO.06ML	2.5	100
YDW EW0229				17.5HO.06ML	2.5	100
YRC Z 022946.56	P 210					23
YRE Z 022943.7	P	10				34
YRE EW0229		46.3	S 2			2
YRH Z 022944.99	P 11U					2
YLL Z 022945.41	P 11U					22
YUC Z 022943.89	P 110					25
-1						8
180985				5.0	ROSEWELL, LOTHIAN	1
51953.34	328.95/	663.01	3.2 0.5		55.855 -3.135	2
EDI Z 051955.10	P	1056.30	S	RMS= 0.19 ERH=	0.3 ERZ= 3.8 Q= B	3
EDI NS0519			S E	7.0 HO.11M	1.0	200
EDI EW0519				9.5 HO.15ML	1.0	200
EBL Z 051955.50	P E	57.08	S E	6.4 HO.14ML	1.0	200
EAU Z 051957.30	P	1060.2	S E			11
ESY Z 051959.68	P E					20
-1						33
180985 LOWNET	LN 450	436	12.5	5.0DWR	RYORK	1
145135.15	464.56/	432.66	1.4 2.4		53.786 -1.020	2
BUR Z 145137.27	P			RMS= 0.80 ERH=	2.9 ERZ= 1.9 Q= D	3
EBL Z 145211.4	P 1E					8
ESK Z 145210.20	P E	34.9	S 3E	2.8HO.19M	5.5 HO.12B*0.25	200
ESK NS1452				4.5HO.09ML	1.0	200
ESK EW1452				3.6HO.12ML	1.0	200
XAL Z 145157.82	P E	73.9	S 2		1.0	200
XOE Z 145204.01	P	EU24.2	S 3			143
XSO Z 145208.8	P 2E	30.5	S 3			180
ECK Z 145209.10	P 2E	32.2	S 3E			206
APA Z 145212.0	P 2	39.0	S 4			207
AWH Z 14523.6	P 2	23.7	S 4			236
AHE Z 14528.4	P 1	31.0	S 4			184
AWI Z 14524.5	P 3	26.0	S 4			214
						196

## PHASE DATA : 1985

SBD Z 145202.55	P 3E 26.40	S 4						179
HLM Z 145203.71	P 2E 28.71	S 3						189
CWF NS1451					16.6HO.1 ML	2.5	200	118
MCH Z 145210.01	P 1I037.36	S 2						239
MCH NS1452					6.4 HO.10ML	1.0	200	239
MCH EW1452					9.6 HO.10ML	1.0	200	239
CWF EW1451					9.7 HO.1 ML	2.5	200	118
HOY Z 145143.21	P IU							44
CWF Z 145154.58	P E 68.88	S						118
-1								
180985	224027.02	330.21/ 663.59	2.5	0.1	5.0	POLTON, LOTHIAN		1
						55.860 -3.115		2
						RMS= 0.04 ERH= 0.8 ERZ= 0.6 Q= C		3
EDI Z 224028.95	P E030.22	S						8
EDI NS2240					8.2 HO.24M	0.25	200	8
EDI EW2240					12.5HO.18ML	0.25	200	8
EBL Z 224029.26	P E 30.99	S			8.4 HO.22ML	0.25	200	8
EAU Z 224031.12	P EU	S E						11
-1								21
190985	54147.10	225.15/ 686.80	3.2	0.6	5.0	ARDENTINNY, STRATHCLYDE1		2
						2+ 56.042 -4.807		2
						RMS= 0.33 ERH= 3.6 ERZ= 4.6 Q= D		3
DUNOON AFTERSHOCK								33
EAB Z 054153.50	P E 57.25	S						22
PMS Z 054150.98	P IO							33
PGB Z 054153.10	P E 57.63	S E						33
PGB NS0541					6.5HO.19ML	0.25	200	33
PGB EW0541					4.5HO.19ML	0.25	200	33
PCO Z 054155.7	P E							45
PCA Z 054156.0	P E 62.9	S E						51
-1								
190985N WALES	12 752.56	228.51/ 350.71	38.9	0.8	5.0	LLEYN PENIN, NW WALES		1
						53.026 -4.557		2
						RMS= 0.23 ERH= 9.9 ERZ= 4.4 Q= D		3
YOW Z 120759.36	P 1I							22
YOW NS1207					8.1 HO.07ML	1.0	100	22
YOW EW1207	64.11	S 1			7.0 HO.08ML	1.0	100	22
YRE Z 120759.08	P 1IO							10
YRH Z 120759.38	P 1IO63.87	S 2						22
YLL Z 120759.39	P 2IO							29
YUC Z 120759.3	P 1IU							19
-1								
200985	1059 6.79	327.79/ 663.08	6.9	0.3	5.0	ROSEWELL, LOTHIAN		1
						55.856 -3.154		2
						RMS= 0.06 ERH= 0.5 ERZ= 0.6 Q= B		3
EDI Z 105908.96	P E010.22	S						8
EDI NS1059					3.9 HO.12M	1.0	200	8
EDI EW1059					5.4 HO.18ML	1.0	200	8
EBL Z 105909.40	P E011.20	S E			4.1 HO.14ML	1.0	200	8
EAU Z 105910.55	P E							12
ESY Z 105913.01	P E							19
-1								34
200985	HEREFORD HF 329	402.33/ 349.07	5.0	1.6	5.0	FORD CHEADLE, STAFFS		1
	15 8 6.06					53.039 -1.965		2
						RMS= 0.38 ERH= 49.2 ERZ= 57.2 Q= D		3
SBD Z 150820.64	P 1E							88
HAE Z 150825.44	P 2E							118
MCH Z 150827.14	P 3E 43.98	S 2E						135
MCH NS1508					6.5HO.19ML	0.25	200	135
MCH EW1508					5.9HO.20ML	0.25	200	135
HCG Z 150829.45	P 3E							139
-1								
200985	161616.22	330.25/ 663.52	2.5	0.5	5.0	ROSEWELL, LOTHIAN		1
						55.860 -3.114		2
						RMS= 0.07 ERH= 0.4 ERZ= 0.6 Q= B		3
EDI Z 161618.10	P IO19.37	S						8
EDI NS1616					6.0 HO.12M	1.0	200	8
EDI EW1616					8.7 HO.18ML	1.0	200	8
EBL Z 161618.57	P E 20.07	S E			6.3 HO.18ML	1.0	200	8
EAU Z 161620.30	P E0							11
ESY Z 161622.10	P E							21
EBH Z 161625.30	P E							32
-1								50
200985	183058.08	329.57/ 663.57	2.9	0.6	5.0	POLTON, LOTHIAN		1
						55.860 -3.125		2
						RMS= 0.08 ERH= 0.5 ERZ= 3.0 Q= B		3
EDI Z 183059.90	P IO61.07	S						8
EDI NS1830					5.1 HO.12M	1.0	200	8
EDI EW1830					8.3 HO.18ML	1.0	200	8
EBL Z 183100.39	P E002.02	S E			7.8 HO.20ML	1.0	200	8
EAU Z 183102.11	P IO							11
ESY Z 183104.20	P 3E							21
EBH Z 183106.81	P 3E							33
-1								49
250985	41755.91	186.47/ 786.58	1.2	0.9	5.0	NR GLENFINNAN, HIGH.		1
						56.921 -5.509		2
						RMS= 0.11 ERH= 7.6 ERZ= 5.7 Q= D		3
EAB Z 041814.3	P E 27.5	S						109
ELO Z 041815.8	P E 31.0	S E			3.0HO.09ML	0.25	200	121
EBH Z 041819.5	P E 36.9	S E			3.5HO.10ML	0.25	200	144
EDU Z 041821.6	P E							158
-1								
260985					5.0	POLTON, LOTHIAN		1

## PHASE DATA : 1985

	21813.12	332.66/ 664.93	7.4	0.1		55.873	-3.076	2	
TIME FROM GEOSTORE	CLOCK		RMS=	0.03	ERH=	0.4	ERZ=	0.5	Q= C
EDI Z	021815.06	P	I016.54	S	E			9	
EDI NS0218						20.0HO.12ML	0.25	200	
EDI EW0218						12.7HO.11ML	0.25	200	
EBL Z	021815.4	P	2E 17.1	S	E			11	
EAU Z	021817.40	P	I020.4	S	2E			24	
	-1								
260985						5.0			
	163952.29	332.04/ 663.94	5.0	0.3		POLTON, LOTHIAN		1	
TIME FROM GEOSTORE	CLOCK		RMS=	0.20	ERH=	55.864	-3.086	2	
EDI Z	163953.90	P	I055.32	S	E	1.9	ERZ=	3.6	Q= C
EDI NS1639						7.2HO.14ML	1.0	200	
EDI EW1639						5.0HO.12ML	1.0	200	
EBL Z	163954.11	P	E 55.9	S	E			10	
EAU Z	163956.09	P	I059.5	S	E			23	
EBH Z	163961.2	P	E					50	
	-1								
260985	HEREFORD	HF 330				5.0FORD			
	181520.57	464.77/ 360.78	7.5	1.1		NR MANSFIELD, NOTTS		1	
FELT MANSFIELD			RMS=	0.72	ERH=	2+	53.140	-1.032	
SBD Z	181544.79	P	2E			21.4	ERZ=	19.0	Q= D
HAE Z	181546.99	P	3E					152	
MCH Z	181550.19	P	1E 69.82	S	2E			160	
MCH NS1815						3.5HO.17ML	0.25	200	
MCH EW1815						3.5HO.09ML	0.25	200	
HCG Z	181552.27	P	3E					184	
CFW Z	181527.97	P	1E 33.86	S	2E			184	
CFW NS1815						6.3HO.13ML	0.25	200	
CFW EW1815						6.5HO.11ML	0.25	200	
HPK Z	181537.12	P	I1047.95	S	2E			199	
	-1							48	
270985N	WALES					5.0			
	115950.93	249.29/ 305.85	26.6	1.4		SW OF BARMOUTH BAY		1	
YDW Z	115961.45	P	2IU			52.629	-4.227	2	
YDW NS1159						RMS=	0.08	ERH=	
YDW EW1159			68.44	S	1	2.5	HO.06ML	1.0	100
YRE Z	115958.97	P	1IU			5.5	HO.07ML	1.0	100
YRE EW1159			64.11	S	3			60	
YRH Z	115958.02	P	1ID					60	
YLL Z	115960.82	P	2ID					41	
YUC Z	115958.75	P	1IU					41	
	-1							36	
270985						5.0			
	121734.14	139.52/ 755.04	2.0	1.1		W OF TOBERMORY, HIGH		1	
EAB Z	121755.0	P	E 69.8	S	E	56.615	-6.246	2	
EBH Z	121761.9	P	E			RMS=	0.29	ERH=	
EDU Z	121765.2	P	E			0.0	ERZ=	0.0	Q= C
	-1					3.4HO.11ML	0.25	200	
						1.5HO.11ML	0.25	200	
						2.8HO.10ML	0.25	200	
								127	
								174	
								199	
270985						5.0			
	161522.17	331.68/ 665.22	7.5	0.2		POLTON, LOTHIAN		1	
EDI Z	161524.34	P	I025.80	S	E	55.875	-3.092	2	
EDI NS1615						1.6	ERZ=	0.7	Q= C
EDI EW1615						17.0HO.08ML	0.25	200	
EBL Z	161524.78	P	E 26.81	S	E	31.2HO.15ML	0.25	200	
EAU Z	161526.58	P	I0					8	
	-1							8	
280985						5.0			
	31858.87	335.59/ 672.42	17.1	0.3		INVERESK, LOTHIAN		1	
EDI Z	031902.28	P	I004.77	S	E	55.941	-3.031	2	
EDI NS0319						RMS=	0.00	ERH=	
EDI EW0319						0.0	ERZ=	0.0	Q= C
EBL Z	031903.2	P	2E			15.1HO.12ML	0.25	200	
EAU Z	031904.51	P	I0			29.1HO.15ML	0.25	200	
	-1							10	
								10	
								10	
								19	
								29	
280985						5.0			
	102255.52	297.16/ 691.98	4.7	0.6		SW OF SALINE, FIFE		1	
EBH Z	102258.60	P	E 61.7	S		56.110	-3.654	2	
EAB Z	102263.3	P	E			RMS=	0.08	ERH=	
EAU Z	102261.5	P	E			0.9	ERZ=	2.4	Q= C
EDI Z	102262.0	P	E			1030.0HO.12ML	0.25	200	
EDU Z	102266.3	P	E					18	
	-1							44	
								32	
								36	
								63	
290985	HEREFORD	HF 330				5.0FORD			
	5 149.20	337.68/ 225.44	5.0	0.5		NR ABERGAVENNY, GWENT		1	
MCH Z	050151.50	P	I053.15	S	2E	51.924	-2.906	2	
MCH NS0501						RMS=	0.01	ERH=	
MCH EW0501						0.0	ERZ=	0.0	Q= C
HAE Z	050154.38	P	1E			12.4HO.10ML	1.0	200	
	-1					9.5HO.10ML	1.0	200	
								10	
								10	
								10	
								28	
300985	HEREFORD	HF 330				5.0FORD			
	144320.63	414.09/ 384.59	1.9	2.1		WHALEY BRIDGE, DERBY		1	
SBD Z	144338.17	P	2E			53.358	-1.788	2	
HLM Z	144341.07	P	2E			RMS=	0.10	ERH=	
HAE Z	144345.76	P	1E			1.9	ERZ=	2.4	Q= C
								111	
								119	
								156	

## PHASE DATA : 1985

MCH Z 144347.64	P 3E 67.59	S 2E					172
MCH NS1443				8.5HO.22ML	0.25 200		172
MCH EW1443				12.7HO.28ML	0.25 200		172
HCG Z 144347.68	P 2E						171
HPK Z 144332.44	P E						67
HOY Z 144325.98	P E						28
-1							
300985	155438.73	268.87/ 614.24	0.2 1.3	5.0	NEW CUMNOCK, ST'CLYDE	1	
					55.404 -4.071	2	
				RMS= 0.39 ERH=	5.5 ERZ= 4.2 Q= D	3	
EAU Z 155448.33	P 2E 58.03	S E					63
EAB Z 155454.13	P E 65.83	S E		5.1HO.18ML	0.25 200		89
EBH Z 155455.6	P E 68.33	S E					100
ESY Z 155457.13	P E 71.13	S E					108
-1							
011085	35336.03	330.46/ 664.98	7.9 0.2	5.0	POLTON, LOTHIAN	1	
					55.873 -3.112	2	
				RMS= 0.05 ERH=	1.0 ERZ= 0.9 Q= C	3	
EDI Z 035338.06	P E 39.63	S E					7
EDI NS0353				6.6HO.13ML	1.0 200		7
EDI EW0353				5.0HO.10ML	1.0 200		7
EBL Z 035338.70	P E 40.73	S E					12
EAU Z 035340.28	P E						22
EBH Z 035345.33	P 2E						49
-1							
021085	1137 2.62	325.24/ 661.65	5.1 0.4	5.0	PENICUIK, LOTHIAN	1	
					55.842 -3.194	2	
				RMS= 0.00 ERH=	0.0 ERZ= 0.2 Q= C	3	
EDI Z 113704.70	P 1006.21	S E					9
EDI NS1137				7.5 HO.16ML	1.0 200		9
EDI EW1137				6.0 HO.13ML	1.0 200		9
EBL Z 113705.2	P E 07.09	S EU					12
EAU Z 113705.90	P EU						16
-1							
021085	HEREFORD HF 331	205348.45	369.97/ 347.37	5.0 1.5	5.0FORD	NR CREWE, CHESHIRE	1
						53.022 -2.448	2
				RMS= 0.36 ERH=	0.0 ERZ= 0.0 Q= D	3	
S80 Z 205357.97	P 2E						56
HCG Z 205367.67	P 1E			5.0HO.15ML	0.25 200		113
MCH Z 205367.77	P 2E 82.33	S 2E					120
MCH NS2053				11.4HO.13ML	0.25 200		120
-1							
031085	SN WALES	446 7.95	240.12/ 342.93	22.7 1.3	5.0	LLEYN PENIN, NW WALES	1
						52.960 -4.380	2
				RMS= 0.04 ERH=	0.5 ERZ= 0.4 Q= B	3	
YOW Z 044613.1	P 1IU						23
YOW NS0446				8.8 HO.07ML	2.5 100		23
YOW EW0446	16.7	S 2		10.0HO.07ML	2.5 100		23
YRC Z 044614.75	P 1IU						35
YRE Z 044611.69	P 1IO						4
YRE NS0446	14.25	S 2					4
YRH Z 044613.05	P 2IO16.51	S 2					22
YLL Z 044613.42	P 1IU17.05	S 2					25
YUC Z 044611.82	P 1IO						8
-1							
071085	91041.45	329.65/ 664.05	5.0 0.4	5.0	POLTON, LOTHIAN	1	
					55.864 -3.124	2	
				RMS= 0.08 ERH=	2.1 ERZ= 3.9 Q= C	3	
EDI Z 091043.20	P 1044.7	S E					8
EDI NS0910				6.7 HO.15ML	1.0 200		8
EDI EW0910				6.5 HO.13ML	1.0 200		8
EBL Z 091044.0	P E 45.6	S E					11
EAU Z 091045.43	P 10						21
-1							
071085	HEREFORD HF 332	152225.35	403.52/ 346.37	2.4 1.9	5.0FORD	CHEADLE, STAFFS	1
						53.014 -1.947	2
				RMS= 0.15 ERH=	24.6 ERZ= 15.6 Q= D	3	
S80 Z 152240.27	P 1E						89
HAE Z 152244.46	P 2E						116
MCH Z 152247.06	P 3E 63.28	S 2E					134
MCH NS1522				11.5HO.23ML	0.25 200		134
MCH EW1522				6.9HO.30ML	0.25 200		134
HCG Z 152248.28	P 2E						139
-1							
071085	171741.15	347.80/ 771.77	0.0 0.8	5.0	W OF EDZELL, TAYSIDE	1	
					56.835 -2.856	2	
				RMS= 0.35 ERH=	13.9 ERZ= 10.0 Q= D	3	
EDU Z 171747.8	P E						33
ELO Z 171752.8	P E 68.0	S 3E		7.8 HO.06ML	0.25 200		66
EBH Z 171754.7	P E			10.6HO.07ML	0.25 200		77
ESY Z 171758.93	P ED			11.1HO.07ML	0.25 200		103
EAU Z 171760.3	P E						116
EBL Z 1717	P E 76.0	S E					119
EAB Z 171761.6	P E						116
-1							
081085	23033.72	326.92/ 663.19	2.9 0.0		ROSEWELL, LOTHIAN	1	
					55.856 -3.168	2	
				RMS= 0.09 ERH=	1.1 ERZ= 18.2 Q= D	3	
EDI Z 023035.50	P 1036.7	S E					8
EDI NS0230				13.5HO.14ML	0.25 200		8
EDI EW0230				10.1HO.12ML	0.25 200		8
EBL Z 023036.4	P E 37.95	S E					12

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EAU Z 023037.22	P ID						18
-1							
081085	103138.83	331.07/ 664.90	6.3 0.1			POLTON, LOTHIAN	1
						55.872 -3.102	2
						1.5 ERZ= 1.6 Q= C	3
EDI Z 103140.92	P ID42.2		S E				8
EDI NS1031						10.0HO.16ML	8
EDI EW1031						11.0HO.25ML	8
EBL Z 103141.35	P E 43.26		S E				12
EAU Z 103143.11	P ID						22
-1							
161085	HEREFORD	HF 333				5.0FORD	MALTBY, SOUTH YORKSHIRE1
	25511.92	449.27/ 399.12	0.7 1.9			53.486 -1.257	2
						2.8 ERZ= 2.1 Q= 0	3
SBO Z 025536.53	P 2E 53.92		S 2E			0.25 200	149
HAE Z 025540.91	P 2E						183
MCH Z 025543.52	P						203
MCH NS0255						4.05HO.2 ML	203
HCG Z 025544.88	P 3E						207
HPK Z 025522.1	P 2E 30.3		S 3E				58
HPK NS0255						10.6HO.16ML	58
HPK EW0255						9.1 HO.17ML	58
HOY Z 025516.45	P 3E					1.0 200	25
-1							
161085	CORNWALL					5.0	S.CONSTANTINE, CORNWALL1
	5 143.72	175.33/ 28.39	6.9-0.7			50.112 -5.143	2
						RMS= 0.04 ERH= 0.3 ERZ= 0.2 Q= C	3
CCO Z 050145.21	P 1I046.33		S 2				5
CBW Z 050145.23	P 2 46.33		S 2				5
CR2 Z 050145.46	P 1I046.73		S 2				6
CST Z 050145.82	P 1 047.37		S 2				9
CCA Z 050145.93	P 2 0						10
CRA Z 050145.55	P 1I046.84		S 2				7
CTR Z 0501	46.74		S 2				6
CTR NS0501						4.1 HO.05ML	6
CTR EW0501						12.0HO.05ML	6
CME Z 0501	47.07		S 2				8
CR2 NS0501						7.6 HO.05ML	6
CR2 EW0501						6.1 HO.06ML	6
-1							
161085						5.0	POLTON, LOTHIAN
	51256.56	330.45/ 664.22	6.8-0.1			55.866 -3.111	2
						RMS= 0.00 ERH= 0.0 ERZ= 0.0 Q= C	3
EDI Z 051258.60	P I060.08		S I				8
EDI NS0512						11.4HO.15ML	8
EDI EW0512						IU 8.0HO.14ML	8
EBL Z 051259.08	P E 60.92		S E				11
EAU Z 051260.77	P ID						22
-1							
161085	CORNWALL					5.0	S.CONSTANTINE, CORNWALL1
	93853.03	174.63/ 28.72	7.1-0.5			50.115 -5.153	2
						RMS= 0.04 ERH= 0.4 ERZ= 0.3 Q= C	3
CCO Z 093854.48	P 1I055.57		S 2				4
CR2 Z 0938	55.98		S 2				6
CR2 NS0938						12.0HO.05ML	6
CR2 EW0938						10.0HO.05ML	6
CST Z 093855.08	P 2 056.57		S 2				9
CCA Z 093855.20	P 1 056.80		S 2				10
CTR Z 0938	55.97		S 2				6
CRA Z 093854.76	P 1I056.10		S 2				6
CME Z 093854.91	P 2 056.34		S 2				7
-1							
171085						5.0	ACHNASHELLACH, HIGHLAND1
	01435.87	204.19/ 843.59	5.0 1.4			57.441 -5.263	2
						RMS= 0.11 ERH= 0.0 ERZ= 0.0 Q= C	3
MCD Z 0014	70.8		S				122
MCD NS0014						7.1 HO.2 ML	122
MCD EW0014						5.1 HO.12ML	122
MDO Z 0014	52.2		S				54
MVH Z 001449.9	P 60.4		S				84
-1							
171085	CORNWALL					5.0	S.CONSTANTINE, CORNWALL1
	34840.75	172.73/ 28.75	8.1-0.7			50.115 -5.179	2
						RMS= 0.02 ERH= 1.3 ERZ= 1.0 Q= C	3
CCO Z 034842.30	P 1E						3
CR2 Z 0348	43.88		S 2E				6
CR2 NS0348						4.6 HO.05ML	6
CR2 EW0348						9.5 HO.06ML	6
CST Z 0348	44.62		S 2E				9
CRA Z 0348	43.90		S 2				6
CTR Z 0348	43.97		S 2				6
-1							
171085	CORNWALL					5.0	S.CONSTANTINE, CORNWALL1
	34851.65	174.38/ 28.56	6.4-0.3			50.114 -5.156	2
						RMS= 0.03 ERH= 0.3 ERZ= 0.3 Q= C	3
CCO Z 034852.99	P 1I0		S 2E				4
CBW Z 034853.13	P 1 054.18		S 2IU				5
CR2 Z 0348	54.46						6
CR2 NS0348						3.0 HO.05ML	6
CR2 EW0348						6.0 HO.06ML	6
CST Z 034853.69	P 1 055.15		S 2E			1.0 200	9
CRA Z 0348	54.50		S 2			1.0 200	6

PHASE DATA : 1985

CTR Z 0348		54.50		S 2					6
CME Z 0348		54.75		S 2					7
-1									
171085 CORNWALL					5.0	S.CONSTANTINE, CORNWALL1			
34936.97	174.13/	28.24	6.3-0.1			50.111	-5.159		2
					RMS= 0.05 ERH=	0.5 ERZ=	0.7 Q= C		3
CCO Z 034938.25	P 110								4
CBW Z 034938.48	P 11U	39.55		S 2E					5
CR2 Z 0349		39.78		S 2IU					6
CR2 NS0349					6.6 HO.05ML	1.0	200		6
CR2 EW0349					8.7 HO.06ML	1.0	200		6
CST Z 0349		40.50		S 2E					9
CRA Z 034938.65	P 1 U	39.84		S 2 U					7
CTR Z 0349		39.86		S 2E					6
CTR NS0349					4.0 HO.05ML	1.0	200		6
CTR EW0349					8.2 HO.05ML	1.0	200		6
CME Z 0349		40.13		S 2 U					8
-1									
181085					5.0	POLTON, LOTHIAN			
195755.92	331.61/	665.14	7.5 0.3			55.875	-3.093		2
					RMS= 0.03 ERH=	1.1 ERZ=	0.5 Q= C		3
EDI Z 195758.09	P I	1059.55		S I					8
EDI NS1957					13.0HO.25ML	0.25	200		8
EDI EW1957					10.2HO.15ML	0.25	200		8
EBL Z 195758.55	P E	60.52		S E					12
EAU Z 195760.29	P IO								23
-1									
211085					5.0	POLTON, LOTHIAN			
52244.12	331.26/	664.84	7.4 0.1			55.872	-3.099		2
					RMS= 0.02 ERH=	0.7 ERZ=	0.3 Q= C		3
EDI Z 052246.25	P IO	47.73		S E					8
EDI NS0522					13.5HO.15ML	0.25	200		8
EDI EW0522					10.8HO.16ML	0.25	200		8
EBL Z 052246.72	P E	48.65		S E					12
EAU Z 052248.46	P IO								23
-1									
211085 HEREFORD	HF 334				5.0	NEAR MAYFIELD, STAFFS			
154557.69	411.94/	344.77	1.4 2.0			53.000	-1.822		2
					RMS= 0.48 ERH=	7.3 ERZ=	3.6 Q= D		3
SBO Z 154613.52	P 2E								97
HLM Z 154613.80	P 3E								90
MCH Z 154620.12	P 2E	36.47		S 2E					137
MCH NS1546					11.0HO.20ML	0.25	200		137
HCG Z 154621.47	P 2E								145
HPK Z 154616.28	P 2E	28.5		S 2E					107
HPK NS1546					4.5 HO.2 ML	1.0	200		107
HPK EW1546					4.55HO.25ML	1.0	200		107
HOY Z 154608.88	P 2E								67
-1									
221085					5.0	POLTON, LOTHIAN			
32241.62	331.15/	664.83	7.3 0.1			55.872	-3.100		2
					RMS= 0.03 ERH=	0.9 ERZ=	0.5 Q= C		3
EDI Z 032243.75	P IO	45.18		S E					8
EDI NS0322					10.7HO.15ML	0.25	200		8
EDI EW0322					9.5HO.22ML	0.25	200		8
EBL Z 032244.22	P E	46.13		S E					12
EAU Z 032245.93	P IO								22
-1									
251085					5.0	IRISH SEA			
17 0 7.90	276.95/	448.01	5.0 2.0			53.913	-3.874		2
					RMS= 0.19 ERH=	1.6 ERZ=	2.2 Q= C		3
WCB Z 170020.48	P 2IU								74
WCB NS1700		29.45		S 3	12.0HO.12ML	1.0	200		74
WCB EW1700					13.5HO.12ML	1.0	200		74
YRC Z 170022.74	P 3E								87
YRE Z 170026.6	P 3E								110
WPM Z 170020.5	P 2								73
WLF Z 170020.85	P 1IU								78
WME Z 170018.93	P 2I	26.7		S 2					64
YLL Z 170022.56	P 1IU								88
XDE Z 170019.75	P EU	28.84		S 2					71
XAL Z 170031.74	P 2E	49.51		S 2					151
ESK Z 170033.39	P 2E	52.74		S 2					162
ESK NS1700					4.5HO.13ML	1.0	200		162
ESK EW1700					3.6HO.13ML	1.0	200		162
XSO Z 170042.19	P 4E								205
-1									
031185 HERFORD	HF 335				5.0	LLANDDERFEL, GWYNEDD			
1348 0.44	299.94/	338.71	6.6 1.1			52.936	-3.489		2
					RMS= 0.16 ERH=	1.4 ERZ=	1.6 Q= C		3
SBO Z 134803.77	P IO	005.96		S 1					16
HLM Z 134811.14	P 2E								62
MCH Z 134815.25	P 4E	31.12		S 2E					110
MCH NS1348					3.8HO.13ML	0.25	200		110
MCH EW1348					4.6HO.09ML	0.25	200		110
WVR Z 134804.12	P 1E								17
WBR Z 134805.78	P 1E								29
WLC Z 134804.61	P 2E	07.13		S 2E					21
WFB Z 134808.54	P 2E								47
-1									
031185N WALES					5.0	LLEYN PENIN, NW WALES			
201219.74	240.24/	342.14	23.9 1.2			52.952	-4.378		2

## PHASE DATA : 1985

				RMS= 0.11 ERH= 0.6 ER7= 0.8 Q= B			
WCB Z 201228.58	P 1IU						49
WCB NS2012				6.6 HO.06ML		1.0 200	49
WCB EW2012	34.4			5.5 HO.07ML		1.0 200	49
YAC Z 201226.64	P 1IU31.25						36
YRE Z 201223.69	P 1IU						5
WPM Z 201228.09	P 3						47
WLF Z 201226.75	P 2IU31.2						38
WME Z 201228.4	P 2IU						50
YLL Z 201225.24	P 1IU28.24						25
WFF Z 201225.48	P 2						26
WFF NS2012	29.5			18.5HO.07ML		2.5 200	26
WFF EW2012				9.0 HO.07ML		2.5 200	26
WVR Z 201229.45	P 2						55
WBR Z 201226.5	P 1IU31.2						34
WLC Z 201227.45	P 1IU32.22						41
WFB Z 201227.00	P 3 31.6						38
-1							
051185	221258.55	182.96/ 868.49	10.0	1.0	5.0	LOCH MAREE, HIGHLAND	1
						57.654 -5.638	2
						RMS= 0.58 ERH= 34.1 ERZ= 38.8 Q= D	3
MCD Z 2213		37.3					143
MCD NS2213						3.0 HO.1 ML	143
MCD EW2213						1.9 HO.1 ML	143
MDD Z 221309.0	P 3 23.3						80
KAC Z 221303.7	P 07.0						27
-1							
051185	221512.62	186.46/ 876.58	2.4	1.7	5.0	LOCH MAREE, HIGHLAND	1
						57.728 -5.587	2
						RMS= 0.43 ERH= 10.3 ERZ= 6.7 Q= D	3
MCD Z 221535.6	P 51.5						140
MCD NS2215						13.0HO.12ML	140
MCD EW2215						7.0 HO.22ML	140
MDD Z 221526.2	P 36.9						80
MME Z 2215	58.7						164
MVH Z 221526.8	P 38.2						86
MLA Z 2215	53.5						146
KAC Z 221518.7	P 22.0						31
-1							
071185	182849.34	228.32/ 683.44	0.0	0.8	5.0	ARDENTINNY, STRATHCLYDE1	1
						56.013 -4.754	2
						RMS= 0.29 ERH= 1.8 ERZ= 1.7 Q= C	3
DUNOON AFTERSHOCK?							
EAB Z 182855.80	P IU59.44						32
EBH Z 182903.52	P E 13.90						82
ELO Z 182903.90	P E 14.50						82
EDI Z 182904.3	P 3E 19.9					3.2 HO.19M	98
EDI NS1829						3.3 HO.18ML	98
EDI EW1829						3.3 HO.15ML	98
EAU Z 182904.31	P E						83
PMS Z 182853.20	P IDS6.60						19
PGB Z 182854.5	P 3E 59.5						29
PGB EW1828						8.5 HO.1 ML	29
PCO Z 182857.77	P IO						41
PCA Z 182858.1	P 2E 64.35						47
-1							
111185	1122 5.27	264.75/ 174.67	8.2	1.5	5.0 FORD	BRISTOL CHANNEL	1
						51.454 -3.947	2
						RMS= 0.10 ERH= 1.3 ERZ= 3.5 Q= C	3
HTL Z 112216.03	P IU23.15						64
HTL NS1122						15.4HO.14ML	64
HTL EW1122						19.4HO.10ML	64
MCH Z 112219.92	P 2E 30.62						89
MCH NS1122						9.8HO.10ML	89
MCH EW1122						14.5HO.07ML	89
OYA Z 112223.67	P 2E 37.12						113
DYA NS1122						5.0HO.11ML	113
DYA EW1122						5.3HO.07ML	113
DCO Z 112225.73	P 2E						126
-1							
111185	174918.36	330.95/ 663.66	1.6-0.2		5.0	POLTON, LOTHIAN	1
						55.861 -3.103	2
						RMS= 0.08 ERH= 0.7 ERZ= 0.8 Q= C	3
EDI Z 174920.48	P E 21.9						9
EDI NS1749						11.4HO.10ML	9
EDI EW1749						7.5HO.10ML	9
EBL Z 174920.74	P E 22.52						11
EAU Z 174922.61	P E 25.98						22
EBH Z 174927.77	P E						50
-1							
121185	163214.72	192.10/ 721.25	6.0	1.1	5.0	SE OF OBAN, ST CLYDE	1
						56.338 -5.364	2
						RMS= 0.32 ERH= 10.0 ERZ= 21.1 Q= D	3
EAB Z 163225.5	P E 33.8						66
ELO Z 163231.5	P E 43.8					11.3HO.1 ML	103
EBH Z 163234.3	P E 47.7					4.5HO.1 ML	115
EAU Z 163236.0	P E						131
-1							
131185	182334.62	326.72/ 637.63	4.4	0.3	5.0	S OF PEEBLES, BORDERS	1
						55.627 -3.164	2
						RMS= 0.20 ERH= 1.0 ERZ= 3.0 Q= C	3
ESK Z 182341.11	P IO45.38						35
ESK NS1823						3.0HO.1 ML	35



## PHASE DATA : 1985

ESK EW1823					5.5HO.1 ML		0.25 200	35
EBL Z 182338.29	P 1040.5		S E					18
EAU Z 182340.30	P 1044.2		S E					30
EBH Z 182347.27	P E							73
-1								
141185 CORNWALL					5.0		E.CONSTANTINE, CORNWALL 1	
122636.26	175.05/ 28.81	6.8 0.3					50.116 -5.147	2
					RMS= 0.02 ERH=		0.2 ERZ= 0.2 Q= C	3
CCO Z 122637.70	P 1 38.81		S 2					4
CBW Z 122637.70	P 1 38.81		S 2					4
CR2 Z 122637.92	P 1 39.10		S 2					6
CR2 NS1226					11.0HO.07ML		1.0 200	6
CR2 EW1226					13.9HO.07ML		1.0 200	6
CST Z 122638.30	P 1 39.85		S 2					9
CCA Z 122638.42	P 1 39.97		S 2					10
-1								
151185					5.0		S OF DOUNE, CENTRAL 1	
162933.08	274.24/ 696.98	3.6 0.1					56.149 -4.025	2
					RMS= 0.07 ERH=		0.9 ERZ= 2.6 Q= C	3
EAB Z 162937.00	P 1U39.71		S E		8.0HO.09ML		0.25 200	20
EBH Z 162939.36	P E 43.7		S E		5.0HO.10ML		0.25 200	34
ELO Z 162940.6	P E 45.8		S E					41
EAU Z 162941.8	P E							49
-1								
151185 CORNWALL					5.0		SE.CONSTANTINE, CORNWALL 1	
193243.89	174.99/ 28.67	6.8 0.0					50.115 -5.148	2
					RMS= 0.02 ERH=		0.2 ERZ= 0.2 Q= C	3
CCO Z 193245.34	P 1IU46.45		S 2					4
CBW Z 193245.35	P 1IU46.46		S 2					4
CR2 Z 193245.57	P 1IU46.81		S 2					6
CR2 NS1932					7.1 HO.04ML		1.0 200	6
CR2 EW1932					10.3HO.06ML		1.0 200	6
CST Z 193245.95	P 1IU47.50		S 2					9
CCA Z 1932	47.63		S 2					10
-1								
161185 CORNWALL					5.0		SE.CONSTANTINE, CORNWALL 1	
124552.02	175.17/ 28.37	6.9 0.1					50.112 -5.145	2
					RMS= 0.01 ERH=		0.1 ERZ= 0.1 Q= C	3
CCO Z 124553.50	P 1IU54.63		S 2					5
CBW Z 124553.52	P 2 054.64		S 2					5
CR2 Z 124553.73	P 1IU55.00		S 2					6
CR2 NS1245					9.3 HO.05ML		1.0 200	6
CR2 EW1245					14.1HO.05ML		1.0 200	6
CST Z 124554.12	P 1IU55.70		S 2					9
CCA Z 124554.25	P 2 D		S 2					10
-1								
161185 CORNWALL					5.0		SE.CONSTANTINE, CORNWALL 1	
132933.23	174.93/ 28.67	6.7 0.0					50.115 -5.149	2
					RMS= 0.03 ERH=		0.3 ERZ= 0.2 Q= C	3
CCO Z 132934.67	P 1IU35.78		S 2					4
CBW Z 132934.68	P 1IU35.79		S 2					5
CR2 Z 132934.89	P 1IU36.14		S 2					6
CR2 NS1329					7.4 HO.04ML		1.0 200	6
CR2 EW1329					10.0HO.06ML		1.0 200	6
CST Z 132935.29	P 1IU36.85		S 2					9
CCA Z 132935.42	P 2 36.92		S 2					10
-1								
161185					5.0		HEBDEN BRIDGE, W YORK 1	
191115.61	395.33/ 435.83	18.7 2.6					53.819 -2.071	2
					RMS= 0.10 ERH=		0.9 ERZ= 1.3 Q= B	3
FELT HEBDEN BG, MYTHOLM, BURNLEY RD, PRESS					5.5HO.12ML		2.5 200	158
WFF EW1911								153
WVR Z 191139.25	P 3E							162
WBR Z 191140.29	P 2E							146
WLC Z 191138.02	P 2E							182
WFB Z 191142.74	P 2							129
SBD Z 191135.69	P 2E 50.57		S 1		17.9HO.15ML		1.0 200	212
MCH EW1911								212
MCH Z 191147.43	P 1E 70.18		S 2					18
BMY Z 191120.0	P							41
HOY Z 191122.42	P 1E 27.16		S 2E					33
HPK Z 191122.24	P 1E 26.92		S 2E					171
WCB Z 191141.04	P 2IU60.00		S 3					171
WCB NS1911					4.5 HO.1 ML		1.0 200	171
WCB EW1911					5.6 HO.17ML		1.0 200	178
YRC Z 191142.14	P 2E							182
YRE Z 191142.61	P 1ID							165
WLF Z 191140.34	P 2E							155
WME Z 191138.85	P 2ID56.85		S 2					159
YLL Z 191139.51	P 1ID57.33		S 2					158
WFF Z 191139.71	P 2ID57.82		S 2					158
WFF NS1911					6.5HO.1 ML		2.5 200	158
MCH NS1911					21.2HO.16ML		1.0 200	212
-1								
181185 HEREFORD HF 337					5.0FORD		ABERGSWYN, POWYS 1	
12 332.46	286.70/ 255.30	5.0 1.0					52.184 -3.657	2
					RMS= 0.15 ERH=		31.6 ERZ= 70.4 Q= D	3
HCG Z 120335.44	P 1U37.91		S 1					15
MCH Z 120341.34	P 1E 47.39		S 2					50
MCH NS1203					6.0HO.14ML		0.25 200	50
MCH EW1203					9.0HO.15ML		0.25 200	50
HLM Z 120344.69	P 3E							64
-1								

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181185	134246.83	470.81	236.28	11.1	2.5	5.0FORD	BUCKINGHAM, BUCKS	1
							52.020 -0.968	2
						RMS= 0.16 ERH=	1.1 ERZ= 1.8 Q= C	3
CWF Z	134300.76	P	ID10.47	S	1	9.0HO.10ML	2.5 200	83
CWF NS	1343							83
AWH Z	134309.99	P	1E					148
AHE Z	134312.03	P	1E					164
APA Z	134313.13	P	1E					170
MCH Z	134308.77	P	1E 25.04	S	2			140
HLM Z	134309.27	P	2E 25.83	S	2			142
HCG Z	134315.08	P	2E					187
SBD Z	134315.46	P	2E					184
BFR Z	134300.63	P	1E 10.80	S	3E			84
BBR Z	134300.97	P	1I 11.42	S	3E	14.4HO.09ML	2.5 200	86
BSE Z	134303.70	P	ID16.04	S	3E	17.5HO.11ML	2.5 200	104
HTL Z	134324.24	P	3E 58.67	S	4			270
HTL NS	1343					13.1HO.17ML	0.25 200	270
HTL EW	1343					14.8HO.18ML	0.25 200	270
	-1							
181185	2129 2.58	332.42/	665.26	6.7-0.1			POLTON, LOTHIAN	1
							55.876 -3.080	2
						RMS= 0.04 ERH=	1.0 ERZ= 0.9 Q= C	3
EDI Z	212904.71	P	IU06.2	S	E			9
EDI NS	2129					10.5HO.13ML	0.25 200	9
EDI EW	2129					7.8HO.11ML	0.25 200	9
EBL Z	212905.12	P	ID07.11	S	EU			12
EAU Z	212907.09	P	EU					24
	-1							
201185	203228.76	298.21/	692.67	0.2	1.7		W OF SALINE, FIFE	1
							56.116 -3.637	2
						RMS= 0.18 ERH=	0.6 ERZ= 0.9 Q= C	3
EBH Z	203232.40	P	E035.54	S	E			17
EAU Z	203235.05	P	EU40.11	S	EU			32
EDI Z	203235.4	P	E 40.57	S	E			35
EDI NS	2032					6.7 HO.5 ML	1.0 200	35
EDI EW	2032					7.3 HO.48ML	1.0 200	35
ELO Z	203236.2	P	E 42.10	S	E			40
EAB Z	203237.16	P	IU43.27	S	IU			44
	-1							
221185	63259.94	365.57/	394.61	0.4	1.9	5.0FORD	GOLBORNE, MANCHESTER	1
							53.447 -2.518	2
						RMS= 0.16 ERH=	0.8 ERZ= 1.2 Q= C	3
YLL Z	063319.16	P	1E					115
WME Z	063319.82	P	1E					119
WLF Z	063320.92	P	2E					126
WCB Z	063322.24	P	2E 38.30	S	2E			135
WCB NS	0633					8.9HO.14ML	0.25 200	135
WCB EW	0633					9.3HO.20ML	0.25 200	135
YRE Z	063322.95	P	1I 0					138
YRC Z	063322.99	P	3E 39.30	S	2E			139
WIM Z	063326.45	P	3E					162
WLC Z	063316.50	P	1E					98
WVR Z	063317.47	P	1E 30.14	S	2E			103
WFF Z	063318.66	P	3E 32.76	S	2E			111
WFF NS	0633					4.7HO.13ML	1.0 200	111
WFF EW	0633					5.5HO.12ML	1.0 200	111
WBR Z	063318.93	P	1E					113
WFB Z	063321.87	P	2E 38.24	S	2E			133
SBD Z	063313.52	P	1I 0					78
HCG Z	063325.15	P	2E 42.84	S	2E			147
MCH Z	063327.74	P	2E 47.11	S	2E			165
MCH NS	0633					6.5HO.15ML	1.0 200	165
MCH EW	0633					5.35HO.14ML	1.0 200	165
HOY Z	063311.29	P	E					63
	-1							
231185	15 815.81	219.47/	732.74	0.3	1.3	5.0	NR TYNDRUM, HIGHLAND	1
							56.452 -4.930	2
						RMS= 0.35 ERH=	31.5 ERZ= 32.1 Q= D	3
EAB Z	150824.3	P	E					47
ELO Z	150828.68	P	E			9.0HO.10ML	0.25 200	75
EBH Z	150831.90	P	E			6.0HO.10ML	0.25 200	91
EDU Z	150835.78	P	E			10.5HO.10ML	0.25 200	119
EAU Z	150835.08	P	E			6.5HO.11ML	0.25 200	114
EBL Z	150839.08	P	E					140
ESY Z	150842.08	P	E					156
	-1							
261185	1659 3.26	330.02/	662.54	0.6	0.9	5.0	ROSEWELL, LOTHIAN	1
							55.851 -3.118	2
						RMS= 0.06 ERH=	0.3 ERZ= 0.3 Q= B	3
EDI Z	165905.47	P	E 07.27	S	E			9
EDI NS	1659					11.0HO.30ML	1.0 200	9
EDI EW	1659					10.3HO.26ML	1.0 200	9
EBL Z	165905.67	P	ID07.57	S	IU			10
EAU Z	165907.59	P	ID10.87	S	E			21
ESY Z	165909.54	P	E					32
EBH Z	165912.77	P	E					51
EDU Z	165917.39	P	2E					78
	-1							
281185	LOWNET	LN461	43	12.5		5.0DWR	LPOLTON, LOTHIAN	1
	184622.09	328.35/	666.24	5.4	0.3		55.884 -3.146	2
						RMS= 0.10 ERH=	1.2 ERZ= 2.4 Q= C	3
EDI Z	184623.50	P	E024.78	S	E	25.6HO.22M	0.25 200	5

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EDI NS1846					15.5HO.21ML		0.25 200	5
EDI EW1846					13.0HO.28ML		0.25 200	5
EBL Z 184624.92	P	E 27.11						14
EAU Z 184626.16	P	E 28.65						20
-1								
011285	171851.86	171.13/ 799.68	4.2 3.7		5.0	NR MALLAIG,HIGHLAND		1
						57.032 -5.772		2
					RMS= 0.20 ERH=	0.0 ERZ= 0.0 Q= C		3
EAB Z 171913.6	P							129
ELO Z 171914.9	P							141
EBL Z 171925.2	P							219
ESY Z 171927.1	P							231
EDU Z 171921.4	P							177
EAU Z 171922.0	P							195
EBH Z 171918.0	P	36.0		S 4				164
EDI Z 171923.1	P	45.0		S				202
KYL Z 171858.4	P	62.2		S 1	11.5HO.07M		0.25 4	35
KAR Z 171854.55	P							13
KAC Z 171862.22	P							60
ESK Z 171928.66	P	1054.80		S I				249
ESK NS1719					16.3HO.31ML		2.5 200	249
ESK EW1719					14.1HO.20ML		2.5 200	249
WCB Z 171948.95	P	2IU						
WCB NS1719					9.8 HO.21ML		1.0 200	
WCB EW1719		90.45		S 3	3.6 HO.16ML		1.0 200	
WFF Z 171955.4	P	3ED						
WFF NS1719					6.7 HO.14ML		1.0 200	
WFF EW1719		100.8		S 3	6.2 HO.15ML		1.0 200	
-1								
011285	LOWNET	LN 461 1117	12.5		5.0DWR	LNR MALLAIG,HIGHLAND		1
	225956.94	158.24/ 794.71	15.0 1.6			56.980 -5.979		2
					RMS= 0.68 ERH=	6.1 ERZ= 2.3 Q= D		3
EAB Z 225978.48	P	E 93.82		S E			0.25 200	134
ELO Z 225980.62	P	E 96.70		S E				150
EDI Z 2259		112.3		S E				208
EDI NS2300					3.1 HO.21ML		0.25 200	208
EDI EW2300					2.2 HO.19ML		0.25 200	208
KAR Z 225959.45	P	1060.85		S				12
KAC Z 225968.9	P							71
-1								
021285	LOWNET	LN461 1324	25.0		5.0DWR	LHARPERRIG RES,LOTHIAN		1
	133954.16	307.85/ 662.99	6.6 0.6			55.851 -3.472		2
					RMS= 0.15 ERH=	0.8 ERZ= 0.4 Q= B		3
EAU Z 133955.70	P	1056.27		S 1IU			1.0 200	1
EDI Z 133958.10	P	IUG0.61		S 4E	1.7 HO.25M		1.0 200	20
EDI NS1339					5.0 HO.11ML		1.0 200	20
EDI EW1339					3.2 HO.11ML		1.0 200	20
EBL Z 133959.52	P	IUG3.05		S 4E				28
EBH Z 134001.89	P	1EU07.36		S 4E				44
ESY Z 134003.44	P	2E						54
EAB Z 134005.42	P	2E 13.43		S 3E				66
ELO Z 134005.71	P	2E 14.28		S 3E				71
ESK Z 134005.92	P	2E 12.11		S 2E	2.7 HO.18M		0.25 200	62
ESK NS1340					5.2 HO.11ML		0.25 200	62
ESK EW1340					5.4 HO.10ML		0.25 200	62
XSO Z 134009.22	P	2EU						87
ECK Z 134008.41	P	3E 16.72		S 3E				78
-1								
021285	ESK	ES 237	6.25		5.0FORD	RFLEET,HAMPSHIRE		1
	174032.70	482.02 153.70	4.4 2.7			51.276 -0.824		2
					RMS= 0.23 ERH=	1.9 ERZ= 2.9 Q= C		3
ECK Z 174134.3	P	3E 79.6		S 3E			0.25 200	461
ESK Z 174136.2	P	3EU83.2		S 3E	1.5 0.20M			477
ESK NS1741					1.8 HO.20ML		0.25 200	477
ESK EW1741					2.2 HO.22ML		0.25 200	477
HAE Z 174056.20	P	1E						146
MCH Z 174058.15	P	4E 79.46		S 2				171
MCH NS1740					14.5HO.19ML		2.5 200	171
HLM Z 174062.09	P	3E						198
HCG Z 174069.57	P	4E						228
CWF Z 174058.96	P	2E 78.09		S 2				166
CWF NS1740					11.4HO.09ML		1.0 200	166
CWF EW1740					11.7HO.12ML		1.0 200	166
AWH Z 174062.44	P	2E						194
AHE Z 174063.05	P	2E						198
APA Z 174063.16	P	2E						195
ABA Z 174067.84	P	4E						225
BBR Z 174058.58	P	2E 77.41		S 1				162
BZO Z 174058.72	P	2E 77.66		S 2	4.9 HO.14ML		2.5 200	163
BSE Z 174059.83	P	1E						170
HTL Z 174072.95	P	4E 104.43		S 3				258
HTL NS1740					15.0HO.35ML		0.25 200	258
HTL EW1740					12.5HO.23ML		0.25 200	258
-1								
031285	LOWNET	LN 461 1780	12.5		5.0DWR	LJOHNSTONEBRIDGE,DUM&GA1		1
	22 3 6.70	310.23/ 595.37	4.3 0.7			55.244 -3.412		2
					RMS= 0.24 ERH=	1.7 ERZ= 2.5 Q= C		3
ESK Z 220309.70	P	IU12.21		S	IUS.0 HO.10M		1.0 200	15
ESK NS2203		IU			103.3 HO.16ML		1.0 200	15
ESK EW2203					EOS.6 HO.09ML		1.0 200	15
ECK Z 220310.37	P	IU13.11		S IU				20
EBL Z 220317.98	P	E 25.21		S 2EU				63

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EAU Z 220318.01	P	EU25.21	S	3EU					67
EOI Z 220319.58	P	E 28.32	S	3EU2.4 HO.24M		0.25	200		77
EOI NS2203				4.1 HO.18ML		0.25	200		77
EOI EW2203				3.2 HO.20ML		0.25	200		77
XSO Z 220320.29	P	E 31.14	S	3EU					79
ESY Z 220322.0	P	E 32.2	S	3E					90
EAB Z 220325.9	P	E 39.4	S	3E					120
-1									
051285 LOWNET	LN 461	2358	12.5	5.0DWR	LROSEWELL, LOTHIAN				1
15 939.71	330.39/	663.33	3.6 0.2		55.858 -3.112				2
				RMS= 0.09 ERH=	0.5 ERZ= 2.4 Q= B				3
EOI Z 150941.61	P	IU43.11	S	EO4.4 HO.20M		1.0	200		9
EOI NS1509				4.1 HO.18ML		1.0	200		9
EOI EW1509				4.0 HO.12ML		1.0	200		9
EBL Z 150941.80	P	EU43.69	S	EU					10
EAU Z 150943.70	P	IU46.90	S	EU					22
ESY Z 150945.58	P	E							32
EBH Z 150948.80	P	E							50
-1									
071285 CORNWALL				5.0	S. CONSTANTINE, CORNWALL				1
45636.07	173.05/	28.69	6.2 0.3		50.114 -5.175				2
				RMS= 0.06 ERH=	0.4 ERZ= 0.4 Q= C				3
CCO Z 045637.26	P	11038.23	S	2					3
CBW Z 045637.60	P	11038.70	S	2					6
CRA Z 045637.64	P	11038.83	S	2					6
CRA NS0456				4.0 HO.05ML		2.5	200		6
CRA EW0456				6.8 HO.09ML		2.5	200		6
CR2 Z 045637.66	P	11038.84	S	2					6
CR2 NS0456				6.5 HO.05ML		2.5	200		6
CR2 EW0456				15.5HO.07ML		2.5	200		6
CTR Z 045637.67	P	11038.90	S	3					6
CTR NS0456				5.6 HO.06ML		2.5	200		6
CTR EW0456				15.0HO.05ML		2.5	200		6
CME Z 045637.79	P	11039.06	S	2					7
CME NS0456				2.1 HO.05ML		2.5	200		7
CME EW0456				4.6 HO.07ML		2.5	200		7
CCA Z 045637.96	P	11039.35	S	2					9
CST Z 045638.05	P	11039.53	S	2					9
-1									
071285				5.0	NORTH OF ST KILDA				1
84243.64	25.23 /	1026.79	5.0 2.6		58.964 -8.524				2
				RMS= 0.28 ERH=	40.5 ERZ= 44.3 Q= D				3
MCD Z 084332.1	P	67.9	S						345
MCD NS0843				6.0 HO.25ML		0.25	200		345
MCD EW0843				6.0 HO.16ML		0.25	200		345
MDO Z 084327.1	P								298
MME Z 084336.0	P								376
MVH Z 084324.2	P								279
MLA Z 084327.8	P								309
KAR Z 084323.8	P								278
KAC Z 084320.6	P								250
ELO Z 084338.8	P	4E 82.8	S	4E	1.2HO.2 B*0.25	200			
EAB Z 084339.1	P	4E 83.1	S	4E	1.0HO.2 B*0.25	200			
EBH Z 084342.2	P	4E 90.8	S	4E	1.1HO.2 B*0.25	200			
EOU Z 084343.7	P	4E 94.2	S	4E					
-1									
081285				5.0	5.0FORD	ST GEORGES CHANNEL			1
115828.21	149.93/	201.31	5.0 1.4		51.654 -5.616				2
				RMS= 0.26 ERH=	6.0 ERZ= 7.2 Q= D				3
HCG Z 115852.45	P	2E 70.72	S	2					154
SBD Z 115860.95	P	2E 85.56	S	3					213
WFB Z 115852.48	P	2E							157
WBR Z 115855.76	P	2E 76.71	S	2					178
HTL Z 115846.09	P	1E 58.78	S	1					108
HTL NS1158					8.6HO.09ML	0.25	200		108
HTL EW1158					8.0HO.12ML	0.25	200		108
-1									
171285 LOWNET	LN463	1677	12.5	5.0DWR	LTARBET, STRATHCLYDE				1
152919.39	234.91/	700.17	2.9 0.2		56.166 -4.659				2
				RMS= 0.61 ERH=	7.6 ERZ= 72.0 Q= D				3
EAB Z 152923.42	P	IU25.69	S	2EU5.2 HO.11ML		0.25	200		20
ELO Z 152927.05	P	EU32.35	S	2E					68
PMS Z 152926.42	P	E 29.40	S	2E 5.6 HO.19ML		0.25	200		36
-1									
171285				5.0	LOCH FYNE, STRATHCLYDE				1
152950.23	202.58/	694.53	0.1 2.1		56.103 -5.175				2
				RMS= 0.26 ERH=	2.0 ERZ= 1.7 Q= C				3
MCD Z 153020.55	P	49.0	S						202
MCD NS1530				12.5HO.2 ML		0.25	200		202
MCD EW1530				12.0HO.13ML		0.25	200		202
MDO Z 153016.1	P	35.4	S						157
MME Z 153019.2	P	45.5	S						191
MVH Z 153021.2	P								212
PMS Z 152957.55	P	IU							39
EAB Z 152959.70	P	IU62.38	S	4E					53
PGB Z 153000.20	P	IU08.48	S	2E					54
PCO Z 153002.66	P	IU							69
PCA Z 153003.10	P	IU							73
ELO Z 153007.09	P	E 19.90	S	3E					99
EBH Z 153008.13	P	EU21.00	S	3E					105
EAU Z 153009.25	P	EU23.28	S	3E					111
EOI Z 153011.80	P	E 27.40	S	2E 10.0HO.35M		0.25	200		126

## PHASE DATA : 1985

EDI NS1530				22.6HO.19ML	0.25	200	126
EDI EW1530				13.5HO.20ML	0.25	200	126
EBL Z 153013.40	P	E					138
EDU Z 153014.19	P	E					143
ESY Z 153016.68	P	E					161
-1							
181285 HEREFORD				-0.055.0FORD	CHAPEL EN LE FRITH,	DER1	1
153148.53	415.46/	385.61	0.2 2.1		53.367	-1.768	2
				RMS= 0.46 ERH=	2.4 ERZ=	1.6 Q= C	3
S80 Z 153206.76	P	3E	21.07	S			112
HLM Z 153208.67	P	2E					121
HAE Z 153213.75	P	2E	33.64	S			157
MCH Z 153216.10	P	2E					174
HCG Z 153216.48	P	2E					173
HPK Z 153200.36	P	2E	09.28	S			66
HPK NS1532				11.0HO.26ML	1.0	200	66
HPK EW1532				6.1 HO.27ML	1.0	200	66
HOY Z 153153.80	P	2E					27
-1							
181285N WALES				5.0	HOLYHEAD BAY, GWYNEDD		1
174549.75	222.08/	389.03	12.4 0.6		53.368	-4.674	2
				RMS= 0.03 ERH=	0.2 ERZ=	0.2 Q= C	3
WCB Z 174552.27	P	1IU					9
WCB NS1745				15.4HO.05ML	2.5	200	9
WCB EW1745			54.06	S	1		9
YRC Z 174552.97	P	1IU	55.17	S	1		15
YRE Z 174557.83	P	3E					46
WLF Z 174553.8	P	2IU	56.48	S	1		21
WME Z 174554.41	P	1IU	57.6	S	2		25
WIM Z 174564.17	P	2IU	74.51	S	2		87
YLL Z 174557.1	P	2E	62.15	S	2		42
WFF NS1746				8.5 HO.09ML	0.25	200	
WFF EW1746				10.5HO.07ML	0.25	200	
WVR Z 17465.49	P	2E	16.5	S	3		96
WBR Z 17462.55	P	3E	11.52	S	3		77
WFB Z 17464.29	P	3E	14.46	S	3		87
-1							
211285 CORNWALL				5.0	N.W. VERYAN, CORNWALL		1
34252.22	191.15/	40.31	2.7 1.9		50.225	-4.928	2
				RMS= 0.11 ERH=	0.9 ERZ=	2.3 Q= C	3
CSA Z 034255.04	P	0IU					14
CBW Z 034255.38	P	0IU	57.51	S	2		16
CST Z 034255.75	P	0IU	58.01	S	2		17
CTR Z 034255.86	P	0IU	58.20	S	2		18
CR2 Z 034255.90	P	0IU	58.30	S	2		18
CME Z 034256.15	P	0IU	58.71	S	2		20
CRA Z 034256.20	P	0IU	58.84	S	2		20
CCO Z 034256.35	P	0IU	59.16	S	2		22
CCA Z 034256.52	P	0IU					22
DYA Z 034265.00	P	2E					75
DYA NS0342				8.7 HO.06ML	2.5	200	75
DYA EW0342				5.0 HO.07ML	2.5	200	75
HTL Z 034267.95	P	2EU					91
HTL NS0342				9.0 HO.12ML	1.0	200	91
HTL EW0342				11.0HO.15ML	1.0	200	91
CP7 Z 034260.80	P	3EU					47
-1							
211285 CORNWALL				5.0	NW OF ST IVES, CORNWALL		1
163323.55	133.45/	62.54	1.0 1.4		50.402	-5.751	2
				RMS= 0.17 ERH=	63.6 ERZ=	56.9 Q= D	3
CCO Z 163331.81	P	2E					49
CCA Z 163332.20	P	1EU					44
CST Z 163332.25	P	2E					48
CRA Z 163332.25	P	2E	38.80	S	2		48
CRA NS1633				8.6 HO.05ML	1.0	200	48
CRA EW1633				12.0HO.05ML	1.0	200	48
CME Z 163332.35	P	2E					47
CR2 Z 163332.45	P	2E	39.30	S	3		49
CR2 NS1633				10.0HO.07ML	1.0	200	49
CR2 EW1633				13.5HO.10ML	1.0	200	49
CTR Z 163332.60	P	3E					50
CP7 Z 163329.35	P	3E					30
-1							
261285 LOWNET	LN 465	787	12.5	5.0DWR	LROSEWELL, LOTHIAN		1
23 1 9.30	329.79/	663.25	5.7 0.0		55.857	-3.122	2
				RMS= 0.06 ERH=	0.7 ERZ=	1.7 Q= C	3
EDI Z 230111.29	P	IU	12.79	S	2E		8
EDI NS2301				17.1HO.32M	0.25	200	8
EDI EW2301				8.9 HO.20ML	0.25	200	8
EBL Z 230111.61	P	ED	13.40	S	2E		11
EAU Z 230113.44	P	ED	16.20	S	2E		21
-1							
271285N WALES				5.0	LLEYN PENIN, NW WALES		1
242 2.58	237.09/	343.02	22.9 1.8		52.959	-4.426	2
				RMS= 0.09 ERH=	1.2 ERZ=	1.3 Q= C	3
WFF Z 02428.68	P	1IU					30
WFF NS0242				5.5 HO.12ML	10.0	200	30
WFF EW0242			12.77	S	1		30
WVR Z 024212.54	P	2		4.8 HO.13ML	10.0	200	58
WBR Z 02429.64	P	1IU	14.32	S	2		38
WFB Z 024210.04	P	2IU	15.25	S	2		40
ECP Z 024227.54	P	3					158




PHASE DATA : 1985

ECB Z 024229.00	P 3						172
ETA Z 024222.40	P 3						124
MCH Z 024225.61	P 2IU						144
MCH NS0242		42.43	S 2	13.0HO.09ML		0.25 200	144
SBD Z 024215.88	P 2E024.89		S 3				79
HAE Z 024228.03	P 3E						164
HCG Z 024217.2	P 1IU27.05		S 2				88
HLM Z 024221.38	P 2IU34.57		S 3				115
-1							
291285 LOWNET	LN465	1804	12.5	5.0DWR	L MOUNTAIN CROSS, BORDERS		1
231141.01	317.00/	645.96	0.0-0.5		55.700	-3.321	2
VERY SMALL LOCAL, ON LIMIT OF DETECTION.			RMS= 0.09	ERH=	2.2	ERZ= 2.0	Q= C 3
EAU Z 231145.05	P EU47.66		S 3E			0.25 200	18
EBL Z 231145.24	P EU48.14		S 3E				19
EDI Z 231146.34	P E 50.56		S 3E				26
EDI NS2311				1.8 HO.09ML		0.25 200	26
EDI EW2311				1.9 HO.10ML		0.25 200	26
-1							
311285 LOWNET	LN 465	2215	12.5	5.0DWR	LAUCHENDINNY, LOTHIAN		1
42750.55	325.23/	662.28	6.4 0.1		55.848	-3.194	2
			RMS= 0.01	ERH=	0.0	ERZ= 0.0	Q= C 3
EDI Z 042752.60	P EU54.20		S 2E	12.5HO.18M		0.25 200	8
EDI NS0427				15.0HO.19ML		0.25 200	8
EDI EW0427				8.5HO.20ML		0.25 200	8
EBL Z 042753.26	P ED						13
EAU Z 042753.88	P E						16
-1							

TABLE 6 Typical depth / crustal velocity model for Britain

Depth to top of layer (km)	P-wave velocity (km/sec)
0.0	4.0
2.52	5.9
7.55	6.45
18.87	7.0
34.15	8.0

$$V_p/V_s = 1.73$$

KEY TO SYMBOLS	
<hr/>	
DEPTHS (kms)	
	< 50
	50 ≤ AND < 99
	99 ≤
<hr/>	
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 MAPS, FIGURES 3 TO 6.**



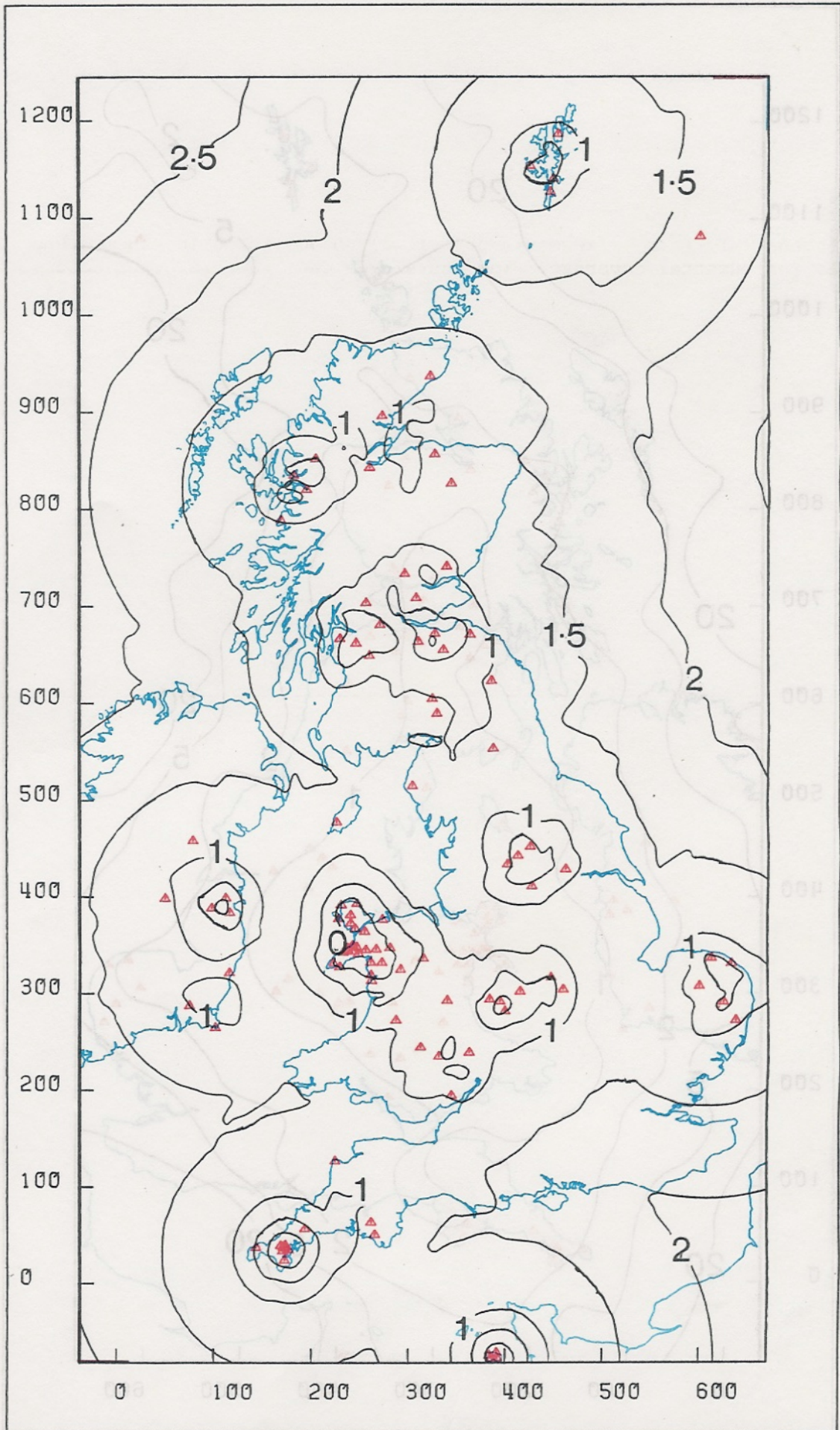


Fig.1 : BGS and DIAS seismographs ( $\Delta$ ) 1985, and their detection capabilities for magnitudes in 0.5ML steps, with average noise conditions



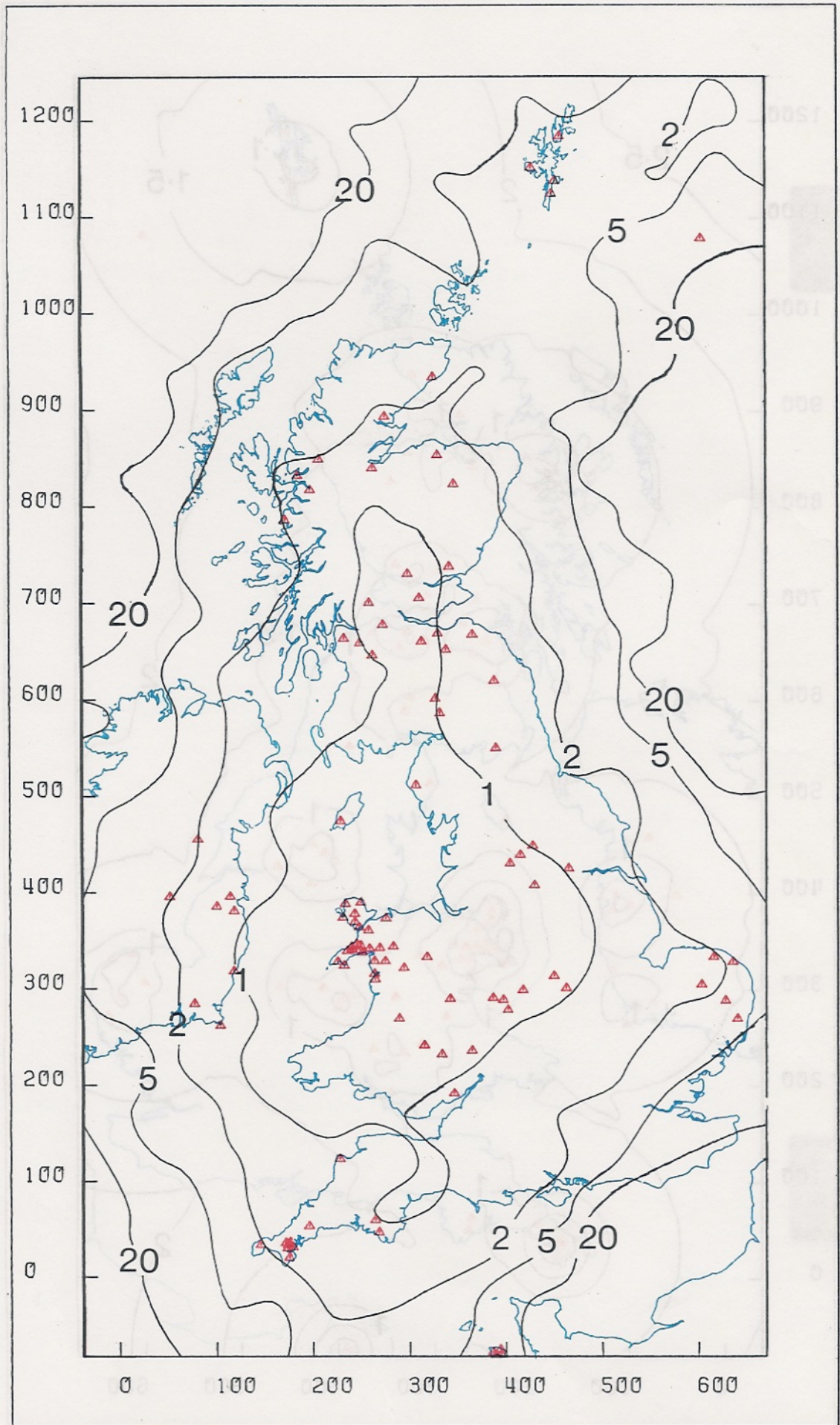


Fig.2 : Epicentral location errors in km  
for a magnitude 2.0ML earthquake



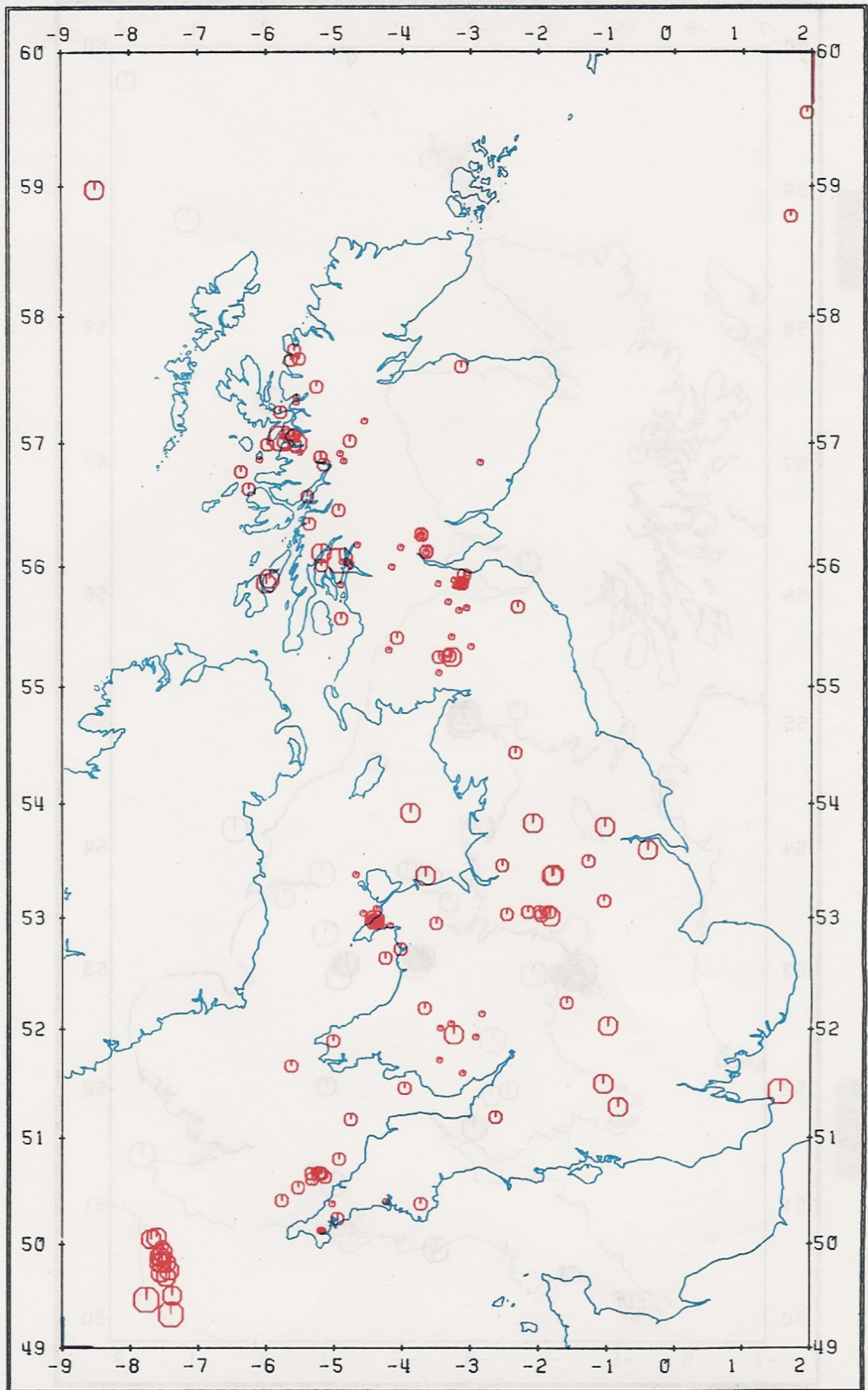


Fig.3 : Epicentres of all earthquakes, 1985

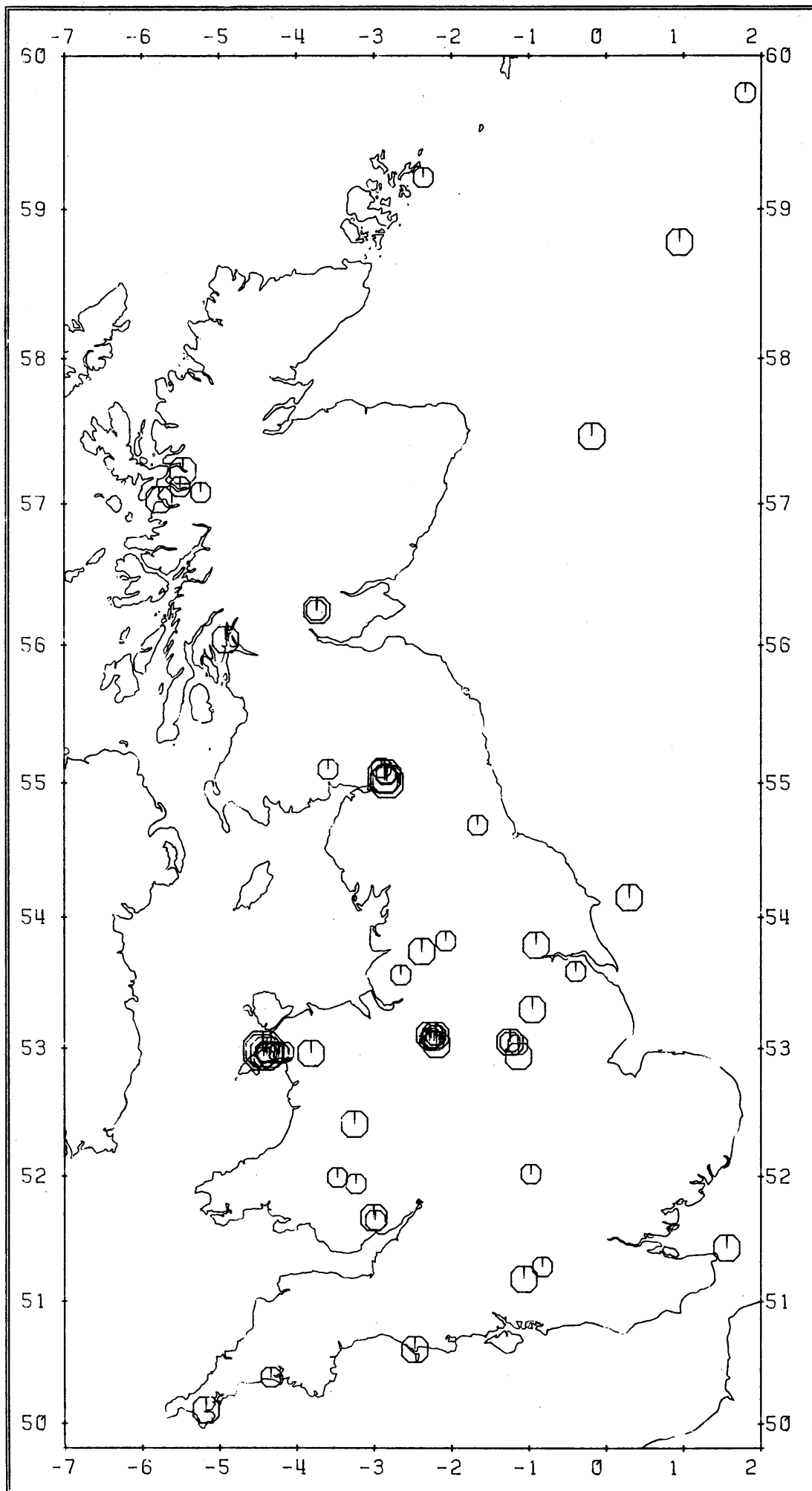


Fig.4 : Epicentres of earthquakes with magnitudes 2.5ML or greater, 1979-85

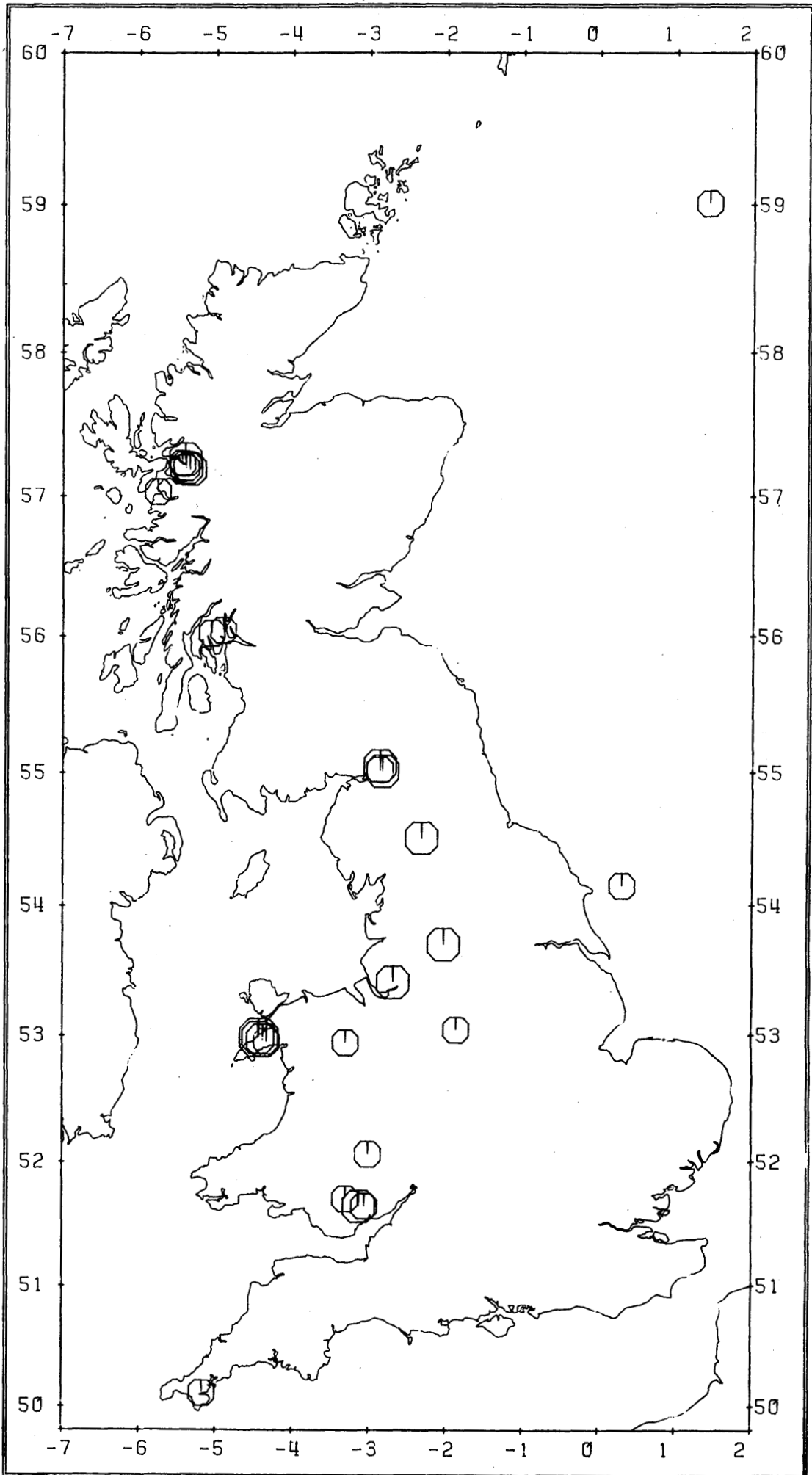


Fig.5 : Epicentres of earthquakes with magnitudes 3.5ML or greater, 1969-85



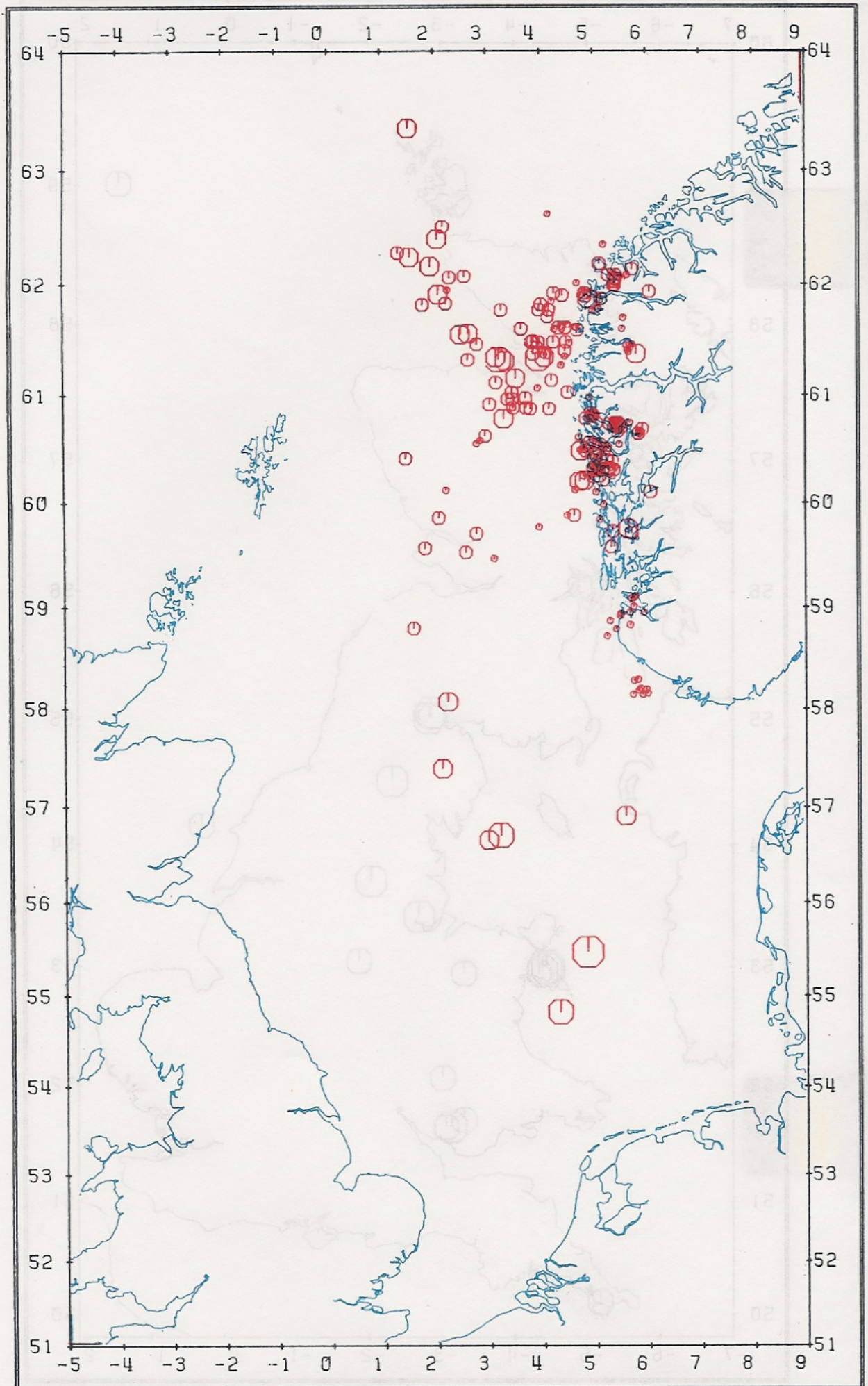


Fig.6 : Epicentres in the North Sea, 1985