



British Geological Survey

BULLETIN OF BRITISH EARTHQUAKES 1989



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Bulletin of British earthquakes 1989

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1. Introduction

1.1 The Bulletin

Seismic phase data, location details and magnitudes are presented for all earthquakes detected and located by BGS during 1989. 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, 1988, by Simpson (1989).

The seismicity of the UK since 1969 is illustrated using data extracted from the previous catalogues of Burton and Neilson (1980) and Turbitt (1984 - 1990).

1.2 Summary of 1989 seismicity

The largest earthquakes of the year on land, occurred on 23 April at Gainsborough, Lincolnshire and on 5 September at Loftus, Cleveland both with magnitude 2.4 ML. The former event, having a deep focus, was not felt but the latter, being shallow, reached intensity 5 MSK at Loftus.

Swarms of small earthquakes occurred at Stoke-on-Trent in Staffordshire (30 events) and at Thoresby in Nottinghamshire (24 events, 15 of them felt at intensity 2). The Thoresby events are related to mine-workings.

Other notable natural earthquakes that were reported felt were : Ullapool, 28 February (2.2 ML ; Intensity 2), Loch Nevis, 22 October (2.2 ML ; Intensity 2), Etrick, 10 October (1.6 ML ; Intensity 3) and Bargoed, 24 March (1.5 ML ; Intensity 2).

A number of coal mining areas were affected by mining-induced earthquakes. In addition to the Thoresby area of Nottinghamshire, the Fife/Clackmannan and Midlothian coalfields in Scotland and the coalfields around Manchester, Cheshire, Nottinghamshire and the north east of England all experienced events, a number of which were felt. With the cessation of mining in the latter part of the year, the number of events detected in the Midlothian coalfield has rapidly decreased.

Aftershock activity, following the 5.4 ML earthquake on the Lleyn Peninsula in 1984, has continued at a low level (14 events). All these aftershocks are at more than 21 km focal depth and none were felt at the surface.

Offshore, magnitude 3.8 ML and 3.9 ML earthquakes occurred in the Bay of Biscay on the 6 April and 21 August respectively, and on 9 October a magnitude 3.2 ML earthquake was detected in the Southern North Sea.

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.
- 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.
- No - Total number of P and S readings used in the event location
- DM - Epicentral distance in kilometres to the closest station
- Gap - Largest azimuthal separation in degrees between stations
- RMS - Root mean square error of arrival time residuals in seconds
- ERH - Standard error of the epicentre in kilometres
- ERZ - Standard error of the focal depth in kilometres
- Q - Solution quality of the hypocentre averaged from QS and QD (below). A, excellent; B, good; C, fair; D, poor.
- SQD - S is quality factor ascribed to RMS, D is quality ascribed to number and distribution of stations.

Data on the earthquakes and seismograph stations operated in 1989 are arranged as follows:

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

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. Also included are felt sonic events and unusual man made events such as aircraft crashes. These events are not in Tables 1 or 2.

TABLE 4 is an alphabetical listing of the geographic coordinates of seismograph stations operated in 1989 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 ML earthquake.

FIGURE 3: the epicentral location map of all the events in 1989 that are listed in Table 1.

FIGURE 4: the locations of earthquakes in the UK of magnitude 2.5 ML and above from 1979 to 1989.

FIGURE 5: the locations of earthquakes in the UK of magnitude 3.5 ML and above from 1969 to 1989.

FIGURE 6: the locations of earthquakes in the North Sea area in 1989.

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. Microprocessor controlled event-triggered recorders 'detect' earthquakes at selected sites to produce a digital magnetic tape and an on-line paper record. 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 dependent on population density.

4. Hypocentre Parameters and their Errors

4.1 Epicentre Location

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

The accuracy of locations is 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, 5 km deep. These errors have been determined by the computer program ERRCON (Musson 1987) 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 and 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. 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 1979-1989 have been plotted in Figure 4. The data set is considered complete for these magnitudes in all localities. Seismicity for 1969-1989 is shown in Figure 5 with a threshold magnitude of 3.5 ML. 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 A₀ is that for a "standard" magnitude zero earthquake at the same distance. The A₀ term is thus a distance correction factor tabulated by Richter to 200, and later 600 km. Although Richter intended his method to be an approximate quantification of earthquake size and his attenuation term, A₀, 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 3°E and 60°N. The North Sea as a whole is covered in the BGS catalogue for that area (eg Newmark and Turbitt, 1985, Newmark et al, 1986, Marrow et al, 1987, 1988 and Simpson 1989).

5.2 Events included

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

Coalfield events are also included. These are small events occurring near the coal workings and are believed to be caused by the redistribution of stress as the coal is extracted.

5.3 Events excluded

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

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

5.4 Completeness

The contours of detection threshold in Figure 1 show that the whole of the UK is covered by the seismograph network for 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.

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Table 1

CATALOGUE OF EVENTS : 1989

Listed Chronologically

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
010189	202738.4	55.24	-3.44	308.7	595.3	6.1	0.7	JOHNSTONEBRIDGE,D & G		8	17	250	0.07	0.8	1.1	C	A*D	
040189	022857.2	53.01	-2.17	388.6	345.8	4.2	1.6	STOKE-ON-TRENT,STAFFS		11	22	119	0.12	0.6	1.1	B	A*C	
060189	053624.9	53.02	-2.18	387.7	346.7	3.9	1.9	STOKE-ON-TRENT,STAFFS		17	23	111	0.16	0.9	1.5	C	B*C	
060189	053935.8	53.03	-2.17	388.8	348.5	7.4	1.2	STOKE-ON-TRENT,STAFFS		8	22	152	0.09	0.8	1.9	B	A*C	
070189	014009.9	53.63	-2.05	396.6	414.6	10.0	1.2	LITTLEBOROUGH,GTR MAN		16	31	102	0.10	0.4	1.9	B	A*C	
070189	112330.8	53.01	-2.17	388.5	346.4	5.5	1.4	STOKE-ON-TRENT,STAFFS		10	22	149	0.09	0.6	1.0	B	A*C	
070189	133317.8	53.02	-2.19	387.5	346.8	2.6	1.9	STOKE-ON-TRENT,STAFFS		14	23	111	0.21	1.0	2.4	C	B*C	
070189	141637.6	53.01	-2.19	387.6	346.3	3.3	2.1	STOKE-ON-TRENT,STAFFS		15	23	117	0.14	0.6	1.3	B	A*C	
070189	230805.1	53.02	-2.20	386.4	346.7	2.6	1.1	STOKE-ON-TRENT,STAFFS		6	24	115	0.16	1.4	4.1	C	B*C	
080189	024852.9	53.01	-2.13	391.3	345.6	9.8	1.2	STOKE-ON-TRENT,STAFFS		6	19	121	0.05	0.4	0.6	B	A*B	
080189	102455.9	53.02	-2.20	386.8	347.5	2.5	0.8	STOKE-ON-TRENT,STAFFS		4	24	152	0.01	0.0	0.0	C	A*D	
080189	102628.0	53.03	-2.20	386.4	348.3	2.3	1.1	STOKE-ON-TRENT,STAFFS		6	24	153	0.17	0.7	0.9	C	B*C	
100189	124738.7	56.11	-3.64	298.3	691.8	0.5	1.0	BLAIRHALL,FIFE		10	17	122	0.16	0.6	0.8	C	B*C	COALFIELD TYPE
100189	231252.4	56.25	-3.73	293.0	708.2	6.9	1.4	GLEN EAGLES,TAYSIDE		13	14	103	0.18	0.7	1.2	B	B*B	
100189	234813.5	55.85	-3.13	329.1	662.6	1.4	1.6	ROSEWELL,LOTHIAN		19	1	72	0.09	0.3	0.1	A	A*A	COALFIELD TYPE
110189	025130.7	53.33	-0.93	471.5	382.2	1.0	1.8	RETFORD,NOTTS		7	41	252	0.07	3.0	1.5	D	C*D	COALFIELD TYPE
120189	022552.7	55.78	-2.83	348.1	653.9	2.0	0.2	LAUDER,BORDERS		8	14	229	0.13	1.7	1.5	C	B*D	
120189	064352.5	53.01	-2.11	392.3	346.4	12.6	1.3	STOKE-ON-TRENT,STAFFS		9	18	147	0.06	0.7	1.1	B	A*C	
170189	023247.6	56.25	-3.74	292.4	707.3	4.8	0.5	GLEN EAGLES,TAYSIDE		11	14	103	0.11	0.4	0.9	B	A*C	
170189	062330.7	55.85	-3.14	328.9	662.7	1.1	1.4	ROSEWELL,LOTHIAN		22	1	77	0.08	0.2	0.1	A	A*A	COALFIELD TYPE
180189	015936.0	55.23	-3.40	311.2	594.2	1.4	0.5	JOHNSTONEBRIDGE,D & G		4	15	304	0.01	0.0	0.0	C	A*D	
180189	171605.9	53.15	-3.73	284.1	362.9	15.4	0.5	LLANRWST,GWYNEDD		8	18	306	0.09	1.4	1.3	C	B*D	
190189	191048.8	55.01	-3.88	279.8	570.3	1.1	0.7	CASTLE DOUGLAS,D & G		4	52	343	0.08	0.0	0.0	C	A*D	
200189	154724.7	53.24	-1.41	439.5	371.4	0.2	1.6	CHESTERFIELD,DERBS		10	8	129	0.71	3.4	4.3	C	D*B	POSSIBLE COALFIELD TYPE
230189	112328.3	55.24	-3.38	312.4	594.6	0.5	0.1	JOHNSTONEBRIDGE,D & G		4	14	300	0.01	0.0	0.0	C	A*D	
260189	035309.7	53.05	-1.04	464.3	350.8	0.1	1.9	OXTON,NOTTS		6	32	162	0.16	1.2	1.5	C	B*C	COALFIELD TYPE
270189	224243.8	55.95	-4.77	226.9	676.9	0.9	0.3	GREENOCK,STRATHCLYDE		6	12	235	0.18	0.3	0.3	C	B*D	
310189	093931.1	49.15	-6.15	97.6	-75.5	9.3	2.4	SCILLY ISLES,CORNWALL		12	119	345	0.08	60.6	143.1	D	D*D	OFFSHORE,70KM SOUTH OF SCILLY ISLES
310189	104341.4	49.14	-6.11	100.2	-76.3	7.9	1.7	SCILLY ISLES,CORNWALL		10	119	346	0.04	7.6	3.7	D	D*D	OFFSHORE,70KM SOUTH OF SCILLY ISLES
010289	070539.8	52.97	-4.41	238.2	344.0	23.5	0.7	LLEYN,GWYNEDD		16	2	98	0.09	0.4	1.1	B	A*B	LLEYN AFTERSHOCK
010289	162715.6	55.21	-2.95	339.2	590.5	4.3	0.2	LANGHOLM,D & G		5	11	202	0.09	0.0	0.1	C	A*D	
040289	002817.1	53.32	-0.89	473.9	380.5	0.7	2.2	RETFORD,NOTTS		9	43	252	0.36	7.2	3.6	D	D*D	EAST OF RETFORD,COALFIELD TYPE
040289	115109.2	53.34	-1.77	415.6	382.1	2.8	1.8	CASTLETON,DERBYSHIRE		16	18	110	0.31	0.6	1.5	C	C*C	
080289	221452.5	53.02	-2.15	389.9	347.0	9.0	1.4	STOKE-ON-TRENT,STAFFS		7	21	149	0.14	1.6	3.4	C	B*C	
090289	152642.0	50.26	-5.33	162.7	45.3	6.2	0.9	PORTREATH,CORNWALL		10	11	243	0.03	0.9	1.7	C	A*D	
090289	153141.4	50.26	-5.33	162.8	45.4	6.3	0.3	PORTREATH,CORNWALL		9	11	244	0.02	0.9	1.5	C	A*D	
100289	123918.6	52.82	-3.64	289.3	326.1	18.7	0.2	LAKE BALA,GWYNEDD		10	4	161	0.03	0.2	0.3	B	A*C	
100289	150650.0	54.40	-2.97	337.3	501.3	5.8	1.3	AMBLESIDE,CUMBRIA		8	36	245	0.17	3.6	11.7	D	C*D	
100289	184145.7	53.91	-1.32	444.8	446.7	9.8	1.2	WETHERBY,W YORKSHIRE		11	21	216	0.32	2.5	3.4	D	C*D	
170289	085605.6	56.25	-3.73	292.6	707.8	3.0	1.1	GLEN EAGLES,TAYSIDE		11	14	104	0.20	0.8	3.4	C	B*C	
180289	064307.7	57.43	-5.14	211.3	842.3	2.4	0.9	LOCH MONAR,HIGHLAND		7	12	265	0.24	2.1	1.7	C	B*D	
230289	195826.3	52.19	-4.17	251.9	256.5	7.8	2.3	NEWQUAY,DYFED		30	49	82	0.31	0.8	1.5	C	C*C	
270289	074839.0	52.86	-3.35	309.0	330.2	16.6	0.3	LAKE BALA,GWYNEDD		7	19	309	0.08	1.5	1.9	C	B*D	
270289	085151.9	52.90	-4.48	233.4	336.7	6.4	0.1	LLEYN,GWYNEDD		9	9	148	0.20	1.7	3.6	C	B*C	
270289	200458.8	52.77	-2.03	398.1	319.4	2.6	1.1	CANNOCK CHASE,STAFFS		6	30	171	0.10	1.1	1.8	C	B*C	
270289	205250.9	52.84	-4.15	255.4	329.3	15.3	0.4	HARLECH,GWYNEDD		10	17	127	0.08	0.4	1.0	B	A*B	
280289	133831.5	57.87	-5.11	215.5	891.3	3.0	2.2	ULLAPOOL,HIGHLAND	2+	16	43	181	0.29	1.4	2.2	C	B*D	FELT RHUE

Table 1 (cont'd)

CATALOGUE OF EVENTS : 1989

Listed Chronologically

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
010389	044311.6	52.96	-4.39	239.6	343.4	24.4	1.1	LLEYN,GWYNEDD		17	3	85	0.07	0.3	0.7	A	A*A	LLEYN AFTERSHOCK
010389	094756.6	52.97	-4.39	239.4	344.3	21.8	1.0	LLEYN,GWYNEDD		13	2	115	0.09	0.5	0.6	B	A*B	LLEYN AFTERSHOCK
010389	101937.9	55.97	-4.39	250.7	678.0	4.0	2.3	STRATHBLANE,S'CLYDE		21	19	130	0.07	0.2	0.6	B	A*C	
010389	181249.1	54.86	-1.10	458.0	551.9	6.6	1.6	SUNDERLAND,TYNE & WEAR		8	72	316	0.30	7.1	12.4	D	D*D	
020389	033431.1	53.01	-2.14	390.9	346.4	9.7	1.3	STOKE-ON-TRENT,STAFFS		7	20	148	0.08	0.8	1.5	B	A*C	
030389	070301.9	56.16	-3.59	301.1	697.7	3.0	0.9	POWMILL,TAYSIDE		7	11	182	0.28	6.9	81.2	D	D*D	COALFIELD TYPE F/S 3.7S BEFORE,A/S 4.8S AFTER
040389	161420.8	53.33	-3.33	311.7	382.7	8.2	1.1	PRESTATYN,CLWYD		18	40	281	0.16	1.1	1.5	C	B*D	
050389	191629.2	47.34	-3.57	281.6	283.7	5.0	2.5	BAY OF BISCAY		6333	355	0.07				D	D*D	
050389	192921.9	55.87	-4.44	247.5	667.2	3.6	0.7	RENFREW,STRATHCLYDE		9	8	109	0.03	0.2	1.2	B	A*B	
090389	003658.0	53.01	-2.18	387.7	345.7	1.8	1.8	STOKE-ON-TRENT,STAFFS		16	23	119	0.28	1.1	1.4	C	B*C	
110389	140117.8	53.59	-2.37	375.5	410.2	2.5	1.7	BOLTON,GTR MANCHESTER		9	48	174	0.20	6.0	1.3	D	D*C	POSSIBLE COALFIELD TYPE
120389	070232.3	55.97	-4.39	250.6	678.1	2.7	0.3	STRATHBLANE,S'CLYDE		8	19	131	0.09	0.5	130.6	C	C*C	
130389	010121.0	55.98	-4.39	250.8	678.8	2.9	0.3	STRATHBLANE,S'CLYDE		12	18	132	0.23	0.8	5.1	C	C*C	
130389	100937.6	55.97	-4.40	250.0	678.1	3.7	0.5	STRATHBLANE,S'CLYDE		11	19	133	0.13	0.5	2.6	C	B*C	
180389	135650.9	52.20	-3.22	316.7	257.0	2.4	1.6	GLADESTRY,POWYS		15	14	100	0.10	0.4	0.7	B	A*C	
190389	095631.9	55.85	-3.13	329.1	662.9	0.5	0.6	ROSEWELL,LOTHIAN		8	1	235	0.02	0.2	0.3	C	A*D	COALFIELD TYPE
210389	180708.2	55.86	-3.12	329.6	663.4	1.2	0.1	ROSEWELL,LOTHIAN		8	1	261	0.05	0.5	0.9	C	A*D	COALFIELD TYPE
220389	152701.8	55.86	-3.13	329.3	663.1	0.5	0.4	ROSEWELL,LOTHIAN		8	1	245	0.03	0.1	0.7	C	A*D	COALFIELD TYPE
220389	205740.5	56.45	-3.99	277.5	729.9	5.3	0.1	COMRIE,TAYSIDE		6	17	223	0.18	5.7	7.1	D	D*D	
240389	000559.3	55.86	-3.11	330.4	663.0	1.5	0.4	ROSEWELL,LOTHIAN		10	2	264	0.05	0.4	0.3	C	A*D	COALFIELD TYPE
240389	004900.8	51.68	-3.26	313.2	199.2	0.0	1.5	BARGOED,MID GLAMORGAN	2+	8	31	239	0.13	1.7	1.6	C	B*D	FELT BARGOED
270389	071623.7	52.77	-2.39	373.9	318.8	5.4	1.0	NEWPORT,SALOP		10	44	135	0.22	1.6	6.3	C	C*C	
280389	212025.5	56.10	-3.75	291.2	691.4	0.5	1.2	CLACKMANNAN,CENTRAL		10	22	137	0.09	0.4	0.5	B	A*C	COALFIELD TYPE
310389	052004.6	55.86	-3.12	329.8	663.6	0.2	0.2	ROSEWELL,LOTHIAN		9	1	271	0.05	0.4	0.2	C	A*D	COALFIELD TYPE
020489	223240.2	55.85	-3.12	330.1	662.9	1.4	0.1	ROSEWELL,LOTHIAN		5	9	182	0.04	0.0	0.0	C	A*D	COALFIELD TYPE
020489	223640.6	55.86	-3.12	329.6	663.4	0.8	0.5	ROSEWELL,LOTHIAN		7	1	292	0.03	0.4	1.0	C	A*D	COALFIELD TYPE
030489	115205.7	57.07	-5.67	177.5	803.6	2.1	1.8	KNOYDART,HIGHLAND		16	20	129	0.12	0.4	0.9	B	A*C	
050489	095422.9	51.68	-3.26	313.2	199.3	0.3	0.8	BARGOED,MID GLAMORGAN		6	31	259	0.03	0.7	0.6	C	A*D	
050489	121742.2	56.11	-3.63	298.9	692.3	1.0	1.4	BLAIRHALL,FIFE		8	17	192	0.11	1.1	1.1	C	B*D	COALFIELD TYPE
060489	091809.0	55.87	-3.14	328.8	664.9	1.6	0.6	POLTON,LOTHIAN		4	6	289	0.04	0.0	0.0	C	A*D	COALFIELD TYPE
060489	130522.8	45.07	-3.90	250.8	534.9	5.0	3.8	BAY OF BISCAY		8562	357	0.05				D	D*D	
060489	142022.8	56.12	-3.68	295.6	692.8	1.0	1.1	FOREST MILL,CENTRAL		6	18	245	0.11	2.2	1.9	C	B*D	COALFIELD TYPE
060489	225410.3	55.61	-3.21	323.8	635.5	3.6	0.1	PEEBLES,BORDERS		10	21	150	0.19	1.0	2.9	C	B*C	
080489	045620.5	55.85	-3.12	329.6	662.6	1.4	0.9	ROSEWELL,LOTHIAN		7	9	118	0.08	0.4	0.4	B	A*B	COALFIELD TYPE
080489	165408.9	51.77	-4.17	250.5	210.7	3.1	1.3	LLANELLI,DYFED		14	70	246	0.14	1.0	1.8	C	A*D	NORTH OF LLANELLI
100489	114308.5	59.38	2.37	648.4	1063.4	1.0	2.3	NORTHERN NORTH SEA		14165	291	0.35	12.1	13.3	D	D*D		
100489	191352.4	55.86	-3.13	329.2	663.4	1.6	0.5	ROSEWELL,LOTHIAN		13	1	223	0.05	0.3	0.1	C	A*D	COALFIELD TYPE
110489	141154.4	55.86	-3.13	329.4	663.3	0.9	0.6	ROSEWELL,LOTHIAN		10	1	255	0.03	0.2	0.3	C	A*D	COALFIELD TYPE
130489	050319.4	55.85	-3.14	328.8	662.7	0.1	0.8	ROSEWELL,LOTHIAN		7	9	121	0.12	0.4	0.5	B	A*B	COALFIELD TYPE
130489	050433.1	55.86	-3.10	330.9	663.3	2.6	0.3	ROSEWELL,LOTHIAN		5	9	193	0.02	0.4	44.9	D	C*D	COALFIELD TYPE
130489	200823.0	53.40	-1.26	449.1	390.0	0.3	1.6	WICKERSLEY,S YORKSHIRE		8	24	159	0.38	2.8	4.3	C	C*C	COALFIELD TYPE
170489	103105.0	55.86	-3.13	329.4	663.4	1.5	0.8	ROSEWELL,LOTHIAN		17	1	106	0.09	0.4	0.2	B	A*B	COALFIELD TYPE
170489	234214.9	54.38	-3.86	279.4	500.0	1.2	1.3	IRISH SEA		7	28	319	0.10	5.2	3.5	D	D*D	
190489	220130.6	55.86	-3.13	329.3	663.5	1.7	0.5	ROSEWELL,LOTHIAN		14	1	177	0.07	0.4	0.1	B	A*C	COALFIELD TYPE
200489	115907.4	51.74	-2.57	360.4	204.6	2.7	2.1	LYDNEY,GLOUCESTERSHIRE		11	20	232	0.46	4.1	3.6	D	C*D	
200489	120839.6	53.55	-1.97	402.2	406.4	4.6	2.2	MOSSLEY,GTR MANCHESTER		11	50	206	0.09	2.8	1.6	D	C*D	
210489	121545.7	55.86	-3.13	329.5	663.5	1.7	0.7	ROSEWELL,LOTHIAN		16	1	233	0.10	0.5	0.2	C	A*D	COALFIELD TYPE
210489	223654.7	57.81	-5.64	183.9	886.1	17.8	2.1	POOLEWE,HIGHLAND		7	40	323	0.05	1.0	0.6	C	B*D	
220489	094158.3	52.16	-3.59	291.2	253.0	5.6	0.6	BEULAH,POWYS		6	18	231	0.05	1.3	0.8	C	B*D	

CATALOGUE OF EVENTS : 1989

Listed Chronologically

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
230489	214353.8	53.43	-0.61	492.6	393.7	18.1	2.4	GAINSBOROUGH,LINCS		9	46	212	0.15	1.3	1.3	C	B*D	EAST OF GAINSBOROUGH
240489	042450.5	53.02	-2.18	387.9	347.3	5.2	1.4	STOKE-ON-TRENT,STAFFS		10	23	151	0.15	1.1	1.8	C	B*C	
240489	195311.7	59.72	0.28	528.4	1094.9	5.8	2.0	NORTHERN NORTH SEA		8	91	331	0.10	2.3	2.4	C	B*D	
250489	155225.5	55.86	-3.13	329.4	663.4	0.6	0.7	ROSEWELL,LOTHIAN		10	1	283	0.04	0.3	0.7	C	A*D	COALFIELD TYPE
250489	204346.7	57.95	-5.19	211.0	899.9	2.0	1.4	ULLAPOOL,HIGHLAND		13	50	228	0.22	1.8	1.7	C	B*D	
260489	010840.2	55.86	-3.12	329.9	663.4	0.6	0.5	ROSEWELL,LOTHIAN		10	1	302	0.02	0.7	1.2	C	A*D	COALFIELD TYPE
270489	194727.1	55.86	-3.12	329.7	663.4	1.1	0.6	ROSEWELL,LOTHIAN		10	1	297	0.01	0.1	0.2	C	A*D	COALFIELD TYPE
280489	032127.5	55.97	-4.39	250.9	677.8	3.3	0.4	STRATHBLANE,CENTRAL		9	18	129	0.13	0.5	18.4	C	C*C	
300489	165213.6	56.41	-4.73	231.8	727.6	8.5	1.5	TYNDRUM,CENTRAL		11	34	263	0.39	3.9	42.0	D	C*D	
010589	032231.2	56.32	-4.70	232.8	717.0	18.2	1.0	ARDLUI,STRATHCLYDE		5	27	300	0.08	2.7	2.1	D	C*D	
020589	093940.5	47.86	-7.18	12.6	-214.2	5.0	2.6	LANDS END,CORNWALL		8281	353	0.09	11.8	6.9	D	D*D	280 KM SW OF LANDS END	
020589	122740.7	53.03	-2.19	387.3	348.3	3.9	2.0	STOKE-ON-TRENT,STAFFS		16	23	153	0.14	0.8	1.5	B	A*C	
020589	143154.6	53.03	-2.18	387.7	347.8	6.3	1.6	STOKE-ON-TRENT,STAFFS		10	23	152	0.08	0.5	0.8	B	A*C	
020589	174237.4	53.05	-2.19	387.1	350.2	2.4	1.6	STOKE-ON-TRENT,STAFFS		14	24	156	0.24	1.1	1.1	C	B*C	
030589	134635.9	56.11	-3.63	298.4	691.8	0.5	1.3	BLAIRHALL,FIFE		4	17	227	0.00	0.0	0.0	C	A*D	COALFIELD TYPE
030589	153322.5	51.98	-3.59	290.9	233.0	16.1	1.2	BRECON,POWYS		5	24	265	0.04	1.8	0.8	C	B*D	
030589	233641.5	55.86	-3.09	331.6	663.1	1.0	0.2	ROSEWELL,LOTHIAN		7	3	303	0.05	1.1	1.3	C	B*D	COALFIELD TYPE
040589	140700.8	52.96	-4.39	239.5	342.7	21.1	1.0	LLEYN,GWYNEDD		15	4	176	0.15	0.8	1.5	B	A*C	LLEYN AFTERSHOCK
040589	180628.1	55.86	-3.12	329.8	663.5	1.4	0.1	ROSEWELL,LOTHIAN		9	1	282	0.06	0.9	0.5	C	A*D	COALFIELD TYPE
070589	231601.1	53.04	-2.20	386.8	348.6	3.2	2.0	STOKE-ON-TRENT,STAFFS		17	24	154	0.18	0.9	2.0	C	B*C	
070589	231742.8	53.02	-2.20	386.8	347.3	2.3	1.8	STOKE-ON-TRENT,STAFFS		14	24	112	0.19	0.6	0.9	C	B*C	
080589	060053.5	52.20	-3.31	310.3	257.0	9.1	1.7	LL'DRINDOD WELLS,POWYS		13	14	153	0.13	1.3	3.8	C	B*C	
100589	164507.4	53.02	-2.18	387.9	347.5	2.5	1.6	STOKE-ON-TRENT,STAFFS		9	23	151	0.06	0.4	0.9	B	A*C	
100589	183442.9	53.11	-2.06	395.9	357.5	25.2	1.5	LEEK,STAFFORDSHIRE		8	18	163	0.15	1.6	1.5	C	B*C	
110589	012902.9	55.86	-3.12	329.8	663.2	1.2	0.0	ROSEWELL,LOTHIAN		9	1	246	0.06	0.6	1.0	C	A*D	COALFIELD TYPE
110589	031914.9	49.42	-6.06	105.6	-45.5	34.5	0.9	LIZARD POINT,CORNWALL		8101	357	0.19	21.5258	7	D	D*D	SOUTHWEST OF LIZARD POINT	
120589	192626.2	59.75	2.14	632.5	1103.3	15.0	2.3	NORTHERN NORTH SEA		10186	296	0.81	34.2	44.6	D	D*D		
130589	012927.2	55.86	-3.11	330.3	663.7	1.1	0.0	ROSEWELL,LOTHIAN		9	2	253	0.03	0.4	1.0	C	A*D	COALFIELD TYPE
130589	031041.7	56.80	-5.98	157.1	774.7	1.5	0.7	ARDNAMURCHAN,HIGHLAND		4	16	343	0.52	0.0	0.0	D	D*D	
150589	125559.7	52.11	-4.02	261.5	247.8	0.1	1.0	LAMPETER,DYFED		11	34	211	0.14	0.9	1.0	C	A*D	
150589	132117.5	55.97	-4.39	250.6	677.7	3.6	1.6	RENFREW,STRATHCLYDE		10	18	130	0.08	0.4	2.8	C	B*C	
150589	194528.7	52.69	-4.00	264.7	311.8	9.8	0.6	BARMOUTH,GWYNEDD		13	2	196	0.08	0.5	0.7	C	A*D	
150589	233452.8	52.57	-1.03	466.0	298.0	2.4	1.5	OADBY,LEICESTER		6	26	228	0.17	1.2	1.2	C	B*D	
160589	050731.4	55.22	-3.44	308.1	592.6	4.1	0.3	CARRONBRIDGE,DUMFRIES		6	19	298	0.09	1.8	1.9	C	B*D	
190589	153315.6	52.32	-2.82	344.0	269.4	17.7	1.1	LUDLOW,HEREFORD		9	22	161	0.24	1.4	3.9	C	B*C	
230589	151809.3	55.58	-3.03	334.8	632.7	5.7	1.6	TRAQUAIR,BORDERS		11	21	118	0.10	0.6	0.7	B	A*C	
270589	141600.8	53.04	-4.45	235.6	351.6	10.2	1.4	CAERNARVON BAY,GWYNEDD		24	6	97	0.22	0.6	1.0	B	B*B	
280589	030619.4	57.06	-4.61	241.4	799.1	7.3	0.9	INVERGARRY,HIGHLAND		10	45	210	0.53	3.3	7.0	D	D*D	
310589	061718.9	54.33	-2.44	371.1	492.5	6.9	1.9	SEDBERGH,CUMBRIA		9	61	159	0.10	0.8	2.0	C	B*D	
310589	185914.6	53.12	-1.08	461.7	358.4	0.1	0.7	RAINWORTH,NOTTS		5	34	263	0.03	2.4	1.4	C	B*D	COALFIELD TYPE
020689	061005.1	53.27	-3.77	281.8	376.6	18.4	0.9	COLWYN BAY,CLWYD		25	9	176	0.15	0.6	0.7	B	A*C	
050689	014034.7	52.95	-3.53	296.9	340.6	16.6	0.4	BALA,GWYNEDD		10	17	231	0.07	0.6	0.6	C	A*D	
070689	161951.8	53.97	-1.97	401.9	452.9	0.2	1.4	SKIPTON,N YORKSHIRE		10100	307	0.29	17.3	11.8	D	D*D		
090689	142916.9	56.12	-3.76	290.4	693.6	8.6	1.2	CLACKMANNAN,CENTRAL		4	21	260	0.07	0.0	0.0	C	A*D	COALFIELD TYPE
100689	084121.9	53.03	-2.19	387.2	348.2	4.5	2.2	STOKE-ON-TRENT,STAFFS		21	24	138	0.19	0.7	1.5	C	B*C	
100689	092851.2	53.03	-2.18	387.8	348.4	5.3	2.0	STOKE-ON-TRENT,STAFFS		20	23	137	0.14	0.5	0.8	B	A*C	
110689	004759.9	53.03	-2.20	386.5	347.8	4.0	1.1	STOKE-ON-TRENT,STAFFS		6	24	152	0.02	0.2	0.5	B	A*C	
110689	213450.9	55.85	-3.12	330.1	662.6	1.1	0.4	ROSEWELL,LOTHIAN		13	2	106	0.06	0.3	0.2	B	A*B	COALFIELD TYPE
120689	192950.8	57.22	-4.88	226.0	818.2	2.4	0.6	GLEN MORISTON,HIGHLAND		15	40	122	0.29	0.9	1.3	C	B*C	
140689	044009.8	53.02	-2.18	387.8	347.0	4.5	1.4	STOKE-ON-TRENT,STAFFS		10	23	151	0.17	1.0	2.1	C	B*C	

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Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
160689	221039.3	53.16	-1.36	443.1	362.8	0.2	0.5	W MANSFIELD, NOTTS		4	16	223	0.03	0.0	0.0	C	A*D	COALFIELD TYPE
170689	202603.5	53.03	-2.18	388.1	347.6	4.0	1.0	STOKE-ON-TRENT, STAFFS		10	23	151	0.07	0.5	0.9	B	A*C	
250689	103650.1	56.41	-4.24	262.1	727.0	2.0	-0.1	LOCH EARN, CENTRAL		5	26	245	0.28	0.4	0.2	C	B*D	MAGNITUDE FROM VERTICALS
250689	230537.0	53.02	-2.15	389.8	347.3	6.5	1.0	STOKE-ON-TRENT, STAFFS		5	21	299	0.06	2.2	1.5	C	B*D	
250689	234438.5	53.05	-2.12	392.0	350.7	17.5	1.4	STOKE-ON-TRENT, STAFFS		13	19	138	0.22	1.5	1.5	C	B*C	
270689	010000.6	56.95	-4.83	227.9	788.3	6.5	1.2	LOCH LOCHY, HIGHLAND		23	46	106	0.26	0.7	2.8	C	B*C	
270689	134136.0	56.11	-3.64	298.1	691.9	2.5	1.4	BLAIRHALL, FIFE		6	18	229	0.04	1.2	0.7	C	B*D	COALFIELD TYPE
020789	152930.6	52.97	-4.41	238.0	343.7	22.8	0.6	LLEYN, GWYNEDD		10	2	108	0.07	0.5	1.0	B	A*B	LLEYN AFTERSHOCK
020789	170131.0	53.16	-3.96	269.2	364.1	12.8	0.3	BETHESDA, GWYNEDD		13	12	130	0.09	0.5	0.8	B	A*B	
040789	170003.4	55.56	-5.62	171.8	635.6	2.1	1.7	SADDELL, KINTYRE		12	77	327	0.37	11.9	8.5	D	D*D	
050789	043227.3	55.96	-4.39	251.0	677.3	1.1	0.0	MILNGAVIE, STRATHCLYDE		4	18	203	0.00	0.0	0.0	C	A*D	
060789	043017.8	55.78	-5.44	184.3	659.8	3.9	1.2	CLAONIG, KINTYRE		10	44	320	0.18	9.0	19.5	D	D*D	
060789	043509.0	55.72	-5.44	183.8	652.9	5.0	1.2	CLAONIG, KINTYRE		6	46	321	0.12	17.8	39.4	D	D*D	
080789	203521.4	56.15	-4.19	263.6	698.0	12.2	0.7	THORNHILL, CENTRAL		8	10	166	0.31	3.6	6.0	C	C*C	
110789	121331.3	56.62	-5.58	180.4	753.2	0.7	2.1	MORVERN, HIGHLAND		10	37	202	0.34	5.0	3.7	D	C*D	
140789	222533.3	53.07	-1.24	451.1	352.9	2.3	0.6	KIRKBY-IN-ASHFLD, NOTTS		8	28	149	0.22	1.4	2.3	C	B*C	
160789	031026.5	56.46	-4.55	242.8	733.2	0.5	0.8	KILLIN, CENTRAL		4	34	292	0.03	0.0	0.0	C	A*D	
160789	220212.9	55.85	-3.12	329.7	662.5	0.2	0.7	ROSEWELL, LOTHIAN		9	9	119	0.05	0.3	0.2	B	A*B	COALFIELD TYPE
180789	072208.8	53.14	-0.59	494.4	361.7	1.0	1.1	LINCOLN, LINCOLNSHIRE		4	64	306	0.16	0.0	0.0	C	B*D	
180789	095021.5	50.20	-4.97	187.8	37.1	10.0	0.5	ST MAWES, CORNWALL		13	11	310	0.03	0.4	0.5	C	A*D	4 KM NE OF ST MAWES
200789	010548.5	53.12	-1.14	457.6	358.0	0.4	1.6	RAINWORTH, NOTTS		6	30	214	0.19	3.3	2.7	D	C*D	COALFIELD TYPE
200789	101207.9	53.47	-4.28	248.7	399.7	11.3	-0.6	AMLWCH, GWYNEDD		5	9	311	0.00	0.1	0.1	C	A*D	
220789	002547.2	53.15	-1.03	464.6	361.7	0.5	1.7	BILSTHORPE, NOTTS		7	35	225	0.14	1.6	1.4	C	B*D	COALFIELD TYPE
220789	203143.7	50.12	-5.45	153.6	29.6	8.2	0.2	MARAZION, CORNWALL		7	11	186	0.06	1.3	3.8	C	B*D	
240789	120516.3	51.50	-3.41	302.2	178.6	0.3	1.6	YSTRADOWEN, S GLAMORGAN		6	62	341	0.18	18.4	92.6	D	D*D	
250789	184933.1	52.96	-4.40	238.7	343.4	22.6	0.9	LLEYN, GWYNEDD		13	3	94	0.07	0.4	0.8	B	A*B	LLEYN AFTERSHOCK
270789	000754.8	53.29	-1.31	446.3	376.8	4.9	0.7	STAVELEY, DERBYSHIRE		5	15	283	0.16	6.0	5.6	D	D*D	COALFIELD TYPE
270789	100234.6	56.53	-5.37	192.9	742.7	5.9	1.0	PORT APPIN, STRATHCLYDE		7	52	320	0.69	14.6	24.7	D	D*D	3 KM SE OF PORT APPIN
270789	115321.1	52.22	-3.07	326.9	258.8	1.1	0.0	KINGTON, HER & WORC		5	21	243	0.02	0.5	0.5	C	A*D	
270789	115329.4	52.21	-3.08	326.1	257.9	0.4	-0.1	KINGTON, HER & WORC		5	20	239	0.01	0.2	0.3	C	A*D	
270789	115358.9	52.21	-3.08	326.2	257.9	0.0	0.4	KINGTON, HER & WORC		5	20	240	0.01	0.2	0.3	C	A*D	
280789	115942.6	52.21	-3.08	326.4	258.0	0.4	0.2	KINGTON, HER & WORC		5	20	241	0.00	0.0	0.0	C	A*D	
280789	135816.5	52.96	-4.39	239.4	342.9	24.1	2.1	LLEYN, GWYNEDD		18	3	88	0.09	0.4	0.9	A	A*A	LLEYN AFTERSHOCK
280789	135931.8	52.96	-4.40	238.7	342.9	24.5	1.3	LLEYN, GWYNEDD		17	3	119	0.09	0.4	0.8	B	A*B	LLEYN AFTERSHOCK
280789	231233.4	53.18	-1.15	457.0	364.6	0.9	0.8	MANSFIELD, NOTTS		4	27	263	0.15	0.0	0.0	C	B*D	COALFIELD TYPE
310789	162556.5	52.84	-3.80	278.5	328.1	6.0	0.3	GWYNFYNYDD, GWYNEDD		7	6	115	0.08	0.6	1.4	B	A*B	
010889	023554.3	53.20	-1.10	460.4	367.2	1.7	0.8	WARSOP, NOTTINGHAMSHIRE		4	30	273	0.05	0.0	0.0	C	A*D	COALFIELD TYPE
010889	223124.5	49.58	-6.03	108.7	-28.1	5.0	0.9	SCILLY ISLES, CORNWALL		6	72	340	0.03	33.0	74.1	D	D*D	SE OF SCILLY ISLES
020889	010113.5	53.54	-2.29	380.6	404.5	1.1	1.5	PRESTWICH, MANCHESTER	2+	19	53	78	0.40	1.0	1.5	D	C*D	COALFIELD TYPE, FELT WHITEFIELD
020889	025902.5	56.02	-5.20	200.5	684.9	0.0	0.5	GLENDARUEL, STRATHCLYDE		5	57	351	0.32	45.0	34.4	D	D*D	
040889	042415.8	53.35	-1.82	412.2	383.6	13.4	1.6	CASTLETON, DERBYSHIRE		12	22	132	0.13	0.8	1.5	B	A*B	
040889	085611.1	52.97	-4.41	238.2	344.4	24.2	0.7	LLEYN, GWYNEDD		10	1	113	0.06	0.6	0.8	B	A*B	LLEYN AFTERSHOCK
040889	225556.7	56.39	-4.73	231.6	725.4	2.1	1.0	TYNDRUM, CENTRAL		10	33	261	0.31	3.5	2.8	D	C*D	
050889	041904.0	53.19	-1.08	461.7	366.8	1.0	0.9	WARSOP, NOTTINGHAMSHIRE		4	31	274	0.17	0.0	0.0	C	B*D	COALFIELD TYPE
050889	050007.9	51.15	-3.38	303.7	139.4	5.0	1.3	BRIDGEWATER, SOMERSET		9	68	165	0.15	1.2	3.8	C	B*D	
100889	193500.6	53.18	-1.15	456.7	365.7	2.6	1.0	WARSOP, NOTTINGHAMSHIRE		4	26	265	0.09	0.0	0.0	C	A*D	COALFIELD TYPE
110889	112135.1	56.11	-3.76	290.7	691.7	1.3	1.3	CLACKMANNAN, CENTRAL	4+	12	22	137	0.09	0.3	0.5	B	A*C	COALFIELD TYPE, FELT CLACKMANNAN
120889	135847.2	53.17	-1.14	457.8	364.4	0.9	0.9	MANSFIELD, NOTTS		4	28	264	0.22	0.0	0.0	C	B*D	COALFIELD TYPE

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130889	125002.3	56.18	-6.39	127.8	706.9	1.0	1.2	COLONSAY, STRATHCLYDE		6127	349	0.25	2.4	1.2	C	B*D		
130889	180253.6	52.95	-4.39	239.2	342.2	23.8	1.6	LLEYN, GWYNEDD		20	4	97	0.07	0.2	0.6	B	A*B	LLEYN AFTERSHOCK
150889	203748.6	53.16	-1.18	454.9	362.8	2.7	1.0	MANSFIELD, NOTTS		4	26	256	0.17	0.0	0.0	C	B*D	COALFIELD TYPE
160889	032610.9	57.97	-5.08	217.6	902.1	1.0	1.3	ULLAPOOL, HIGHLAND		9	54	286	0.50	13.9	10.4	D	D*D	
210889	065246.3	47.64	-6.67	49.3	-240.6	5.0	3.9	BAY OF BISCAY		6374	359	0.31				D	D*D	
220889	011552.4	53.44	-2.52	365.7	393.9	0.5	1.3	CULCHETH, MANCHESTER		14	46	111	0.33	1.2	2.8	C	C*C	COALFIELD TYPE
220889	012058.8	53.19	-1.09	460.9	366.6	1.0	1.2	CLIPSTONE, NOTTS		4	30	273	0.14	0.0	0.0	C	A*D	
220889	064756.9	56.13	-4.15	266.6	695.3	7.0	0.7	KIPPEN, CENTRAL		5	14	186	0.33	33.0	72.9	D	D*D	
230889	052650.4	53.41	-2.41	372.9	390.1	1.0	1.6	PARTINGTON, MANCHESTER		6	50	332	0.10	8.6	6.4	D	D*D	COALFIELD TYPE
230889	075622.6	56.26	-5.00	214.0	711.8	2.5	0.6	INVERARAY, STRATHCLYDE		12	42	273	0.24	4.8	3.8	D	C*D	
230889	102711.7	52.49	-1.10	461.4	288.3	4.3	0.4	BRUNTINGTHORPE, LEICS		6	31	246	0.34	6.5	8.7	D	D*D	
240889	225409.2	56.12	-4.14	267.0	694.5	3.6	0.1	KIPPEN, CENTRAL		4	14	229	0.34	0.0	0.0	D	C*D	
250889	131907.7	53.38	-1.21	452.8	387.7	0.4	1.8	DINNINGTON, S YORKSHIRE		8	26	297	0.43	11.5	5.7	D	D*D	COALFIELD TYPE
260889	145654.3	53.22	-1.03	464.4	369.2	2.3	1.1	THORESBY, NOTTS		5	33	281	0.15	0.9	0.7	C	A*D	COALFIELD TYPE
290889	224932.0	53.07	-1.23	451.3	353.2	2.6	0.9	ANNESLEY, NOTTS		7	28	150	0.05	0.4	3.3	C	B*C	
310889	201848.0	55.85	-3.13	329.0	662.8	1.4	0.5	ROSEWELL, LOTHIAN		10	1	220	0.03	0.2	0.2	C	A*D	COALFIELD TYPE
020989	075143.8	53.22	-1.03	464.4	370.1	9.3	0.8	THORESBY, NOTTS	2+	4	19	200	0.10	0.0	0.0	C	A*D	COALFIELD TYPE, FELT THORESBY
040989	053611.6	53.00	-4.61	225.1	347.7	20.2	1.1	LLEYN, GWYNEDD		18	12	180	0.08	0.4	0.7	B	A*C	OFFSHORE LOCATION
040989	124814.7	53.24	-1.79	413.7	371.8	0.5	2.1	BUXTON, DERBYSHIRE		11105	312	0.22	13.8	9.2	D	D*D	COALFIELD TYPE	
040989	144554.4	56.11	-3.65	297.3	691.6	0.2	1.3	BLAIRHALL, FIFE		10	18	125	0.22	0.8	1.2	C	B*C	COALFIELD TYPE
050989	092111.3	54.54	-4.03	268.4	518.6	1.4	1.2	IRISH SEA		9	36	169	0.27	2.0	3.6	C	B*C	OFFSHORE, ST. BEES HEAD
050989	161323.7	54.54	-0.88	472.3	516.1	0.4	2.4	LOFTUS, CLEVELAND	5	19	81	236	0.36	2.8	1.8	D	C*D	FELT LOFTUS, EASINGTON, STAITHES & BOULBY
050989	221826.0	55.75	-4.60	236.8	653.9	5.4	0.1	BEITH, STRATHCLYDE		6	10	215	0.04	1.6	4.7	C	B*D	
060989	223928.0	53.22	-0.98	468.2	369.3	0.0	1.0	THORESBY, NOTTS	2+	5	37	286	0.19	19.6	14.9	D	D*D	COALFIELD TYPE, FELT THORESBY
090989	021606.9	53.24	-1.02	465.3	371.5	3.4	1.3	THORESBY, NOTTS	2+	6	34	223	0.09	0.3	0.5	C	A*D	COALFIELD TYPE, FELT THORESBY
120989	010215.5	53.22	-1.04	463.9	369.2	1.5	1.0	THORESBY, NOTTS		6	33	215	0.12	1.6	2.2	C	B*D	COALFIELD TYPE
120989	232113.3	53.23	-1.02	465.1	370.4	2.8	1.0	THORESBY, NOTTS	2+	5	34	219	0.09	2.4	4.0	C	B*D	COALFIELD TYPE, FELT THORESBY
130989	124242.5	53.26	-1.82	412.2	373.4	1.6	1.1	THORESBY, NOTTS	2+	4	19	267	0.12	0.0	0.0	C	A*D	COALFIELD TYPE FELT THORESBY
130989	154922.9	56.20	-4.16	265.9	703.4	2.6	-0.2	THORNHILL, CENTRAL		4	11	182	0.14	0.0	0.0	C	A*D	A/S @ 21:42 GMT (-0.4.ML)
130989	222919.6	53.22	-1.03	464.4	370.1	2.9	1.2	THORESBY, NOTTS	2+	5	33	231	0.11	0.6	1.2	C	A*D	COALFIELD TYPE, FELT THORESBY
150989	102924.0	56.15	-4.17	265.4	697.7	4.5	0.9	THORNHILL, CENTRAL		8	11	123	0.09	2.1	4.8	C	B*C	F/S @ 05:16 GMT (14TH), A/S @ 00:11 GMT (17TH)
160989	044910.4	53.46	-2.45	370.1	396.1	0.4	1.1	CHAT MOSS, MANCHESTER		9	44	129	0.16	0.4	0.7	C	B*C	COALFIELD TYPE
170989	101542.2	53.23	-1.03	464.7	370.3	1.8	1.0	THORESBY, NOTTS	2+	4	33	283	0.10	0.0	0.0	C	A*D	COALFIELD TYPE, FELT THORESBY
180989	161735.9	52.71	-2.02	398.6	312.9	1.3	1.1	CANNOCK, STAFFORDSHIRE		9	36	109	0.33	2.2	4.4	C	C*C	COALFIELD TYPE
200989	055723.9	53.57	-2.25	383.5	408.7	0.2	1.5	PRESTWICH, MANCHESTER	3+	7	37	170	0.29	2.5	3.0	C	B*C	COALFIELD TYPE, FELT WHITEFIELD
200989	175352.5	53.24	-1.08	461.2	372.3	18.9	1.2	THORESBY, NOTTS	2+	4	30	283	0.00	0.0	0.0	C	A*D	COALFIELD TYPE, FELT THORESBY
220989	193820.0	53.20	-1.09	460.9	367.9	1.4	1.1	THORESBY, NOTTS	2+	4	30	275	0.06	0.0	0.0	C	A*D	COALFIELD TYPE, FELT THORESBY
220989	211132.0	49.97	-6.14	103.4	16.2	4.6	1.8	SCILLY ISLES, CORNWALL		8	45	340	0.04	19.1	43.5	D	D*D	7 KM EAST OF ST MARTINS

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240989	174344.2	53.24	-1.09	460.8	371.3	17.9	1.1	THORESBY,NOTTS	2+	4	29	218	0.06	0.0	0.0	C	A*D	COALFIELD TYPE,FELT THORESBY
250989	102705.0	53.12	-2.67	355.3	357.9	7.2	2.0	RIDLEY,CHESHIRE		15	46	276	0.25	2.9	4.5	D	C*D	
280989	122305.3	51.81	-3.10	324.0	213.3	23.2	1.4	ABERGAVENNY,GWENT		7	22	205	0.14	1.4	2.1	C	B*D	
300989	012534.2	49.78	-4.87	193.2	-8.9	4.2	0.6	LIZARD POINT,CORNWALL		7	36	348	0.18	17.1	6.0	D	D*D	SOUTH OF LIZARD POINT
300989	105250.3	49.85	-5.16	172.8	-0.6	6.6	0.5	LIZARD POINT,CORNWALL		8	22	312	0.03	0.7	0.4	C	A*D	SOUTH OF LIZARD POINT
300989	121700.9	49.76	-5.09	177.7	-11.4	5.6	1.4	LIZARD POINT,CORNWALL		8	33	324	0.08	21.5	47.0	D	D*D	SOUTH OF LIZARD POINT
300989	153340.6	49.71	-5.17	171.8	-15.7	8.4	0.5	LIZARD POINT,CORNWALL		5	37	351	0.39	43.85	55.5	D	D*D	SOUTH OF LIZARD POINT
021089	233658.8	53.23	-1.03	464.9	370.6	2.0	1.2	THORESBY,NOTTS		5	33	220	0.04	1.2	1.4	C	B*D	COALFIELD TYPE
081089	011703.8	53.25	-1.04	464.3	372.7	7.6	0.8	THORESBY,NOTTS		4	33	286	0.03	0.0	0.0	C	A*D	COALFIELD TYPE
091089	193426.5	53.03	2.42	696.5	356.9	0.0	3.2	SOUTHERN NORTH SEA		17	87	287	0.69	6.3	3.6	D	D*D	
101089	103253.2	55.44	-3.13	328.8	617.0	3.9	1.6	ETTRICK,BORDERS	3+	12	15	96	0.10	0.6	1.6	B	A*C	FELT AT TUSHIELAW INN
101089	181422.1	57.58	-5.21	208.3	859.0	0.4	1.4	KINLOCHEWE,HIGHLAND		13	11	193	0.27	2.0	40.2	D	C*D	
151089	051737.4	49.75	-5.19	169.9	-11.3	7.9	0.5	LIZARD POINT,CORNWALL		7	33	350	0.05	3.6	75.6	D	C*D	SOUTH OF LIZARD POINT
161089	132252.2	56.38	-4.78	228.4	724.0	3.0	0.9	TYNDRUM,CENTRAL		11	34	262	0.26	2.3	2.8	C	B*D	
161089	155538.5	56.38	-4.74	230.7	724.8	4.9	1.1	TYNDRUM,CENTRAL		11	33	260	0.21	1.9	1.9	C	B*D	
161089	162547.7	52.95	-4.40	239.0	342.3	23.9	1.1	LLEYN,GWYNEDD		20	4	99	0.09	0.3	0.9	B	A*B	LLEYN AFTERSHOCK
201089	032520.2	53.25	-1.02	465.4	372.6	7.6	1.3	THORESBY,NOTTS		4	34	287	0.08	0.0	0.0	C	A*D	COALFIELD TYPE
211089	144307.3	53.24	-1.05	463.7	371.8	5.9	1.2	THORESBY,NOTTS		4	32	284	0.09	0.0	0.0	C	A*D	COALFIELD TYPE
221089	200043.0	57.02	-5.78	170.5	798.9	7.1	2.2	LOCH NEVIS,HIGHLAND	2+	17	12	117	0.26	1.2	1.6	B	B*B	FELT MALLAIG & MORAR
231089	113313.8	53.02	-3.64	289.8	348.9	12.4	0.5	BALA,GWYNEDD		21	10	151	0.15	0.5	0.6	B	A*C	NORTH OF BALA
231089	182536.2	56.12	-3.70	294.5	693.1	0.6	1.5	CLACKMANNAN,CENTRAL	4+	12	19	127	0.05	0.2	0.2	B	A*C	COALFIELD TYPE,FELT AT GARTFINNAN FARM
241089	144508.7	56.11	-3.64	297.9	691.7	0.2	1.5	BLAIRHALL,FIFE		9	18	123	0.08	0.3	0.5	B	A*C	COALFIELD TYPE
241089	172558.2	53.53	-2.70	353.3	404.1	14.6	1.4	WIGAN,LANCASHIRE		21	32	73	0.15	0.4	0.7	B	A*C	
251089	004304.1	52.90	-4.49	232.4	336.8	13.7	0.7	LLEYN,GWYNEDD		13	10	156	0.07	0.5	0.5	B	A*C	
261089	191301.2	56.39	-4.70	233.1	725.2	4.8	1.3	TYNDRUM,CENTRAL		12	32	259	0.34	2.6	2.5	D	C*D	
271089	010705.6	54.96	-1.37	440.1	562.6	0.5	1.7	WHITBURN,TYNE & WEAR		11	55	266	0.25	3.7	2.6	D	C*D	COALFIELD TYPE
021189	060243.4	56.33	-4.91	220.0	718.8	9.1	0.8	TYNDRUM,CENTRAL		14	39	269	0.50	2.8	7.3	D	C*D	
031189	191346.9	53.21	-1.11	459.5	368.4	3.4	1.0	THORESBY,NOTTS	2+	4	28	274	0.09	0.0	0.0	C	A*D	COALFIELD TYPE,FELT THORESBY
061189	005434.4	54.68	-2.83	346.7	532.4	2.4	0.9	PENRITH,CUMBRIA		11	36	97	0.25	1.4	2.2	C	B*C	
061189	235236.3	49.43	-5.56	141.5	-46.1	5.0	1.0	LIZARD POINT,CORNWALL		6	75	356	0.51	90.7	59.1	D	D*D	SOUTHWEST OF LIZARD POINT
081189	125228.3	52.97	-4.42	237.3	344.0	22.6	0.6	LLEYN,GWYNEDD		13	1	131	0.06	0.3	0.6	B	A*B	LLEYN AFTERSHOCK
081189	234715.6	56.30	-4.88	221.6	716.1	9.1	0.3	DALMALLY,STRATHCLYDE		7	36	301	0.17	2.2	23.3	D	C*D	
101189	031757.4	53.26	-1.00	466.7	373.8	3.8	1.1	THORESBY,NOTTS		4	35	290	0.36	0.0	0.0	D	C*D	COALFIELD TYPE
121189	102805.6	53.41	-2.56	363.1	390.8	0.3	1.4	WARRINGTON,CHESHIRE		15	49	174	0.23	0.9	1.0	C	B*C	COALFIELD TYPE
121189	162721.2	54.39	-3.08	329.9	499.6	5.4	0.6	CONISTON,CUMBRIA		11	14	101	0.20	0.8	1.6	C	B*C	
171189	224008.8	53.42	-2.56	362.7	391.8	0.1	1.6	WARRINGTON,CHESHIRE		21	48	86	0.31	0.9	1.3	C	C*C	COALFIELD TYPE
181189	212448.7	55.85	-3.11	330.2	662.9	1.0	0.4	ROSEWELL,LOTHIAN		9	3	113	0.05	0.3	0.3	B	A*B	COALFIELD TYPE
191189	164737.7	51.18	-4.81	203.5	146.3	1.6	1.1	LUNDY,BRISTOL CHANNEL		8	31	287	0.01	1.2	0.9	C	B*D	
201189	203538.5	53.22	-1.09	460.8	369.2	3.9	1.3	THORESBY,NOTTS	2+	4	30	277	0.09	0.0	0.0	C	A*D	COALFIELD TYPE,FELT THORESBY
241189	085137.7	55.88	-3.12	330.0	665.6	1.7	0.2	LASSWADE,LOTHIAN		6	4	198	0.02	0.5	0.4	C	A*D	COALFIELD TYPE
251189	044630.8	56.36	-4.06	272.5	721.0	1.6	-0.4	COMRIE,TAYSIDE		6	25	201	0.06	0.6	0.6	C	A*D	
251189	154100.9	53.23	-1.06	462.7	370.6	3.5	1.1	THORESBY,NOTTS		4	31	281	0.06	0.0	0.0	C	A*D	COALFIELD TYPE
261189	061207.1	55.93	-3.42	311.1	672.3	3.4	0.6	BROXBURN,LOTHIAN		11	10	101	0.13	0.5	3.8	C	B*C	
291189	053318.3	52.05	-2.69	352.6	239.2	1.0	1.0	HERRFORD,HER & WORC		4	10	182	0.03	0.0	0.0	C	A*D	
011289	034441.7	53.43	-2.57	362.0	392.9	0.2	1.2	WARRINGTON,CHESHIRE		15	46	107	0.10	0.3	0.5	B	A*C	COALFIELD TYPE
011289	041534.9	53.22	-1.08	461.4	369.8	4.5	1.1	THORESBY,NOTTS	2+	5	30	214	0.11	0.8	1.6	C	A*D	COALFIELD TYPE,FELT

CATALOGUE OF EVENTS : 1989

Listed Chronologically

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
051289	190046.1	53.47	-4.26	249.7	399.0	13.0	-0.4	ANGLESEY,GWYNEDD		7	8	316	0.01	0.3	0.2	C	A*D	NORTHEAST OF ANGLESEY
061289	062929.8	55.76	-3.09	331.7	652.2	6.1	-0.3	GLADHOUSE RES,LOTHIAN		8	3	233	0.10	1.0	0.5	C	A*D	
071289	003152.1	53.22	-1.09	460.8	369.6	7.0	0.9	THORESBY,NOTTS	2+	5	30	212	0.09	2.8	11.3	D	C*D	COALFIELD TYPE,FELT THORESBY
081289	140633.0	56.11	-3.64	297.9	692.1	0.1	1.4	BLAIRHALL,FIFE		13	17	123	0.13	0.3	0.4	B	A*C	COALFIELD TYPE
081289	231257.2	52.71	-4.72	216.0	315.7	19.1	0.9	CARDIGAN BAY		22	15	149	0.23	1.1	1.9	C	B*C	
091289	012446.2	53.47	-2.49	367.5	396.9	0.4	1.0	CULCHETH,MANCHESTER		13	43	241	0.30	3.1	3.1	D	C*D	COALFIELD TYPE
091289	182043.3	53.23	-1.04	464.2	370.2	2.5	1.1	THORESBY,NOTTS		5	33	218	0.17	3.0	3.6	D	C*D	COALFIELD TYPE
101289	024654.3	56.42	-4.82	226.2	729.1	0.6	0.7	TYNDRUM,CENTRAL		12	64	267	0.40	4.9	3.6	D	C*D	
101289	045118.0	55.62	-2.98	338.4	636.9	8.5	0.5	INNERLEITHEN,BORDERS		7	17	275	0.24	3.1	11.6	D	C*D	
131289	042256.0	53.46	-2.49	367.2	395.6	0.5	1.3	CULCHETH,MANCHESTER		18	44	67	0.25	0.9	1.6	C	B*C	COALFIELD TYPE
131289	093030.4	53.42	-2.58	361.4	392.0	0.1	1.6	WARRINGTON,CHESHIRE		22	47	86	0.25	0.6	1.0	C	B*C	COALFIELD TYPE
161289	012333.6	54.84	-2.64	359.2	549.1	4.9	0.8	CROGLIN FELL,CUMBRIA		10	27	153	0.16	1.2	2.5	C	B*C	
161289	045424.8	53.20	-1.10	460.1	367.1	0.7	1.2	THORESBY,NOTTS	2+	4	29	272	0.07	0.0	0.0	C	A*D	COALFIELD TYPE,FELT THORESBY
171289	073248.9	53.12	-2.14	390.6	348.6	7.7	1.8	STOKE-ON-TRENT,STAFFS		10	23	168	0.24	1.3	2.9	C	B*C	
181289	160220.4	53.04	-2.19	387.2	349.0	2.5	1.7	STOKE-ON-TRENT,STAFFS		5	24	163	0.04	0.9	1.3	C	A*D	
191289	140251.2	54.87	-1.27	446.8	552.7	0.5	1.8	RYHOPE,TYNE & WEAR		15	61	285	0.25	4.2	3.2	D	C*D	OFFSHORE,COALFIELD TYPE
191289	215007.3	53.54	-4.93	206.0	409.4	9.5	0.1	IRISH SEA		8	31	320	0.06	1.4	4.0	C	B*D	
221289	113844.7	54.02	1.14	605.9	462.7	30.1	2.6	SOUTHERN NORTH SEA		211	26	220	0.29	2.0	3.2	C	B*D	
241289	022240.4	56.29	-4.30	257.5	713.5	3.1	0.5	STRATHYRE,CENTRAL		8	12	230	0.26	3.9	4.9	D	C*D	
241289	034712.2	53.07	2.13	676.9	360.7	8.7	2.0	SOUTHERN NORTH SEA		7	53	314	0.32	5.2	93.1	D	D*D	
251289	062212.5	55.94	-3.43	311.0	672.3	2.6	0.1	BROXBURN,LOTHIAN		8	10	161	0.10	0.5	136.9	C	C*C	
281289	153615.3	55.28	-3.01	335.8	598.6	0.2	0.5	ESKDALE,D & G		10	13	195	0.27	1.4	1.5	C	B*D	
281289	203601.8	52.96	-4.40	238.6	343.5	22.4	1.3	LLEYN,GWYNEDD		20	2	181	0.11	0.5	0.8	C	A*D	LLEYN AFTERSHOCK
281289	224028.7	55.30	-2.63	359.7	601.1	2.5	0.1	NEWCASTLETON,BORDERS		6	32	198	0.09	2.0	1.2	C	B*D	
291289	150336.8	53.30	-1.70	419.7	377.9	1.0	1.6	BUXTON,DERBYSHIRE		4	13	276	0.12	0.0	0.0	C	A*D	
301289	123340.0	55.25	-3.42	309.5	596.3	9.6	-0.3	MOFFAT,D & G		4	16	310	0.07	0.0	0.0	C	A*D	
311289	071301.3	52.96	-4.38	240.4	343.1	21.9	0.7	LLEYN,GWYNEDD		15	4	161	0.10	0.5	0.9	B	A*C	LLEYN AFTERSHOCK

Table 2

CATALOGUE OF EVENTS : 1989

Listed in order of decreasing latitude

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
120589	192626.2	59.75	2.14	632.5	1103.3	15.0	2.3	NORTHERN NORTH SEA		10186	296	0.81	34.2	44.6	D	D*D		
240489	195311.7	59.72	0.28	528.4	1094.9	5.8	2.0	NORTHERN NORTH SEA		8	91	331	0.10	2.3	2.4	C	B*D	
100489	114308.5	59.38	2.37	648.4	1063.4	1.0	2.3	NORTHERN NORTH SEA		14165	291	0.35	12.1	13.3	D	D*D		
160889	032610.9	57.97	-5.08	217.6	902.1	1.0	1.3	ULLAPOOL,HIGHLAND		9	54	286	0.50	13.9	10.4	D	D*D	
250489	204346.7	57.95	-5.19	211.0	899.9	2.0	1.4	ULLAPOOL,HIGHLAND		13	50	228	0.22	1.8	1.7	C	B*D	
280289	133831.5	57.87	-5.11	215.5	891.3	3.0	2.2	ULLAPOOL,HIGHLAND	2+	16	43	181	0.29	1.4	2.2	C	B*D	FELT RHUE
210489	223654.7	57.81	-5.64	183.9	886.1	17.8	2.1	POOLEWE,HIGHLAND		7	40	323	0.05	1.0	0.6	C	B*D	
101089	181422.1	57.58	-5.21	208.3	859.0	0.4	1.4	KINLOCHEWE,HIGHLAND		13	11	193	0.27	2.0	40.2	D	C*D	
180289	064307.7	57.43	-5.14	211.3	842.3	2.4	0.9	LOCH MONAR,HIGHLAND		7	12	265	0.24	2.1	1.7	C	B*D	
120689	192950.8	57.22	-4.88	226.0	818.2	2.4	0.6	GLEN MORISTON,HIGHLAND		15	40	122	0.29	0.9	1.3	C	B*C	
030489	115205.7	57.07	-5.67	177.5	803.6	2.1	1.8	KNOYDART,HIGHLAND		16	20	129	0.12	0.4	0.9	B	A*C	
280589	030619.4	57.06	-4.61	241.4	799.1	7.3	0.9	INVERGARRY,HIGHLAND		10	45	210	0.53	3.3	7.0	D	D*D	
221089	200043.0	57.02	-5.78	170.5	798.9	7.1	2.2	LOCH NEVIS,HIGHLAND	2+	17	12	117	0.26	1.2	1.6	B	B*B	FELT MALLAIG & MORAR
270689	010000.6	56.95	-4.83	227.9	788.3	6.5	1.2	LOCH LOCHY,HIGHLAND		23	46	106	0.26	0.7	2.8	C	B*C	
130589	031041.7	56.80	-5.98	157.1	774.7	1.5	0.7	ARDNAMURCHAN,HIGHLAND		4	16	343	0.52	0.0	0.0	D	D*D	
110789	121331.3	56.62	-5.58	180.4	753.2	0.7	2.1	MORVERN,HIGHLAND		10	37	202	0.34	5.0	3.7	D	C*D	
270789	100234.6	56.53	-5.37	192.9	742.7	5.9	1.0	PORT APPIN,STRATHCLYDE		7	52	320	0.69	14.6	24.7	D	D*D	3 KM SE OF PORT APPIN
160789	031026.5	56.46	-4.55	242.8	733.2	0.5	0.8	KILLIN,CENTRAL		4	34	292	0.03	0.0	0.0	C	A*D	
220389	205740.5	56.45	-3.99	277.5	729.9	5.3	0.9	COMRIE,TAYSIDE		6	17	223	0.18	5.7	7.1	D	D*D	
101289	024654.3	56.42	-4.82	226.2	729.1	0.6	0.7	TYNDRUM,CENTRAL		12	64	267	0.40	4.9	3.6	D	C*D	
300489	165213.6	56.41	-4.73	231.8	727.6	8.5	1.5	TYNDRUM,CENTRAL		11	34	263	0.39	3.9	42.0	D	C*D	
250689	103650.1	56.41	-4.24	262.1	727.0	2.0	-0.1	LOCH EARN,CENTRAL		5	26	245	0.28	0.4	0.2	C	B*D	MAGNITUDE FROM VERTICALS
040889	225556.7	56.39	-4.73	231.6	725.4	2.1	1.0	TYNDRUM,CENTRAL		10	33	261	0.31	3.5	2.8	D	C*D	
261089	191301.2	56.39	-4.70	233.1	725.2	4.8	1.3	TYNDRUM,CENTRAL		12	32	259	0.34	2.6	2.5	D	C*D	
161089	132252.2	56.38	-4.78	228.4	724.0	3.0	0.9	TYNDRUM,CENTRAL		11	34	262	0.26	2.3	2.8	C	B*D	
161089	155538.5	56.38	-4.74	230.7	724.8	4.9	1.1	TYNDRUM,CENTRAL		11	33	260	0.21	1.9	1.9	C	B*D	
251189	044630.8	56.36	-4.06	272.5	721.0	1.6	-0.4	COMRIE,TAYSIDE		6	25	201	0.06	0.6	0.6	C	A*D	
021189	060243.4	56.33	-4.91	220.0	718.8	9.1	0.8	TYNDRUM,CENTRAL		14	39	269	0.50	2.8	7.3	D	C*D	
010589	032231.2	56.32	-4.70	232.8	717.0	18.2	1.0	ARDLUI,STRATHCLYDE		5	27	300	0.08	2.7	2.1	D	C*D	
081189	234715.6	56.30	-4.88	221.6	716.1	9.1	0.3	DALMALLY,STRATHCLYDE		7	36	301	0.17	2.2	23.3	D	C*D	
241289	022240.4	56.29	-4.30	257.5	713.5	3.1	0.5	STRATHYRE,CENTRAL		8	12	230	0.26	3.9	4.9	D	C*D	
230889	075622.6	56.26	-5.00	214.0	711.8	2.5	0.6	INVERARAY,STRATHCLYDE		12	42	273	0.24	4.8	3.8	D	C*D	
170189	023247.6	56.25	-3.74	292.4	707.3	4.8	0.5	GLEN EAGLES,TAYSIDE		11	14	103	0.11	0.4	0.9	B	A*C	
100189	231252.4	56.25	-3.73	293.0	708.2	6.9	1.4	GLEN EAGLES,TAYSIDE		13	14	103	0.18	0.7	1.2	B	B*B	
170289	085605.6	56.25	-3.73	292.6	707.8	3.0	1.1	GLEN EAGLES,TAYSIDE		11	14	104	0.20	0.8	3.4	C	B*C	
130989	154922.9	56.20	-4.16	265.9	703.4	2.6	-0.2	THORNHILL,CENTRAL		4	11	182	0.14	0.0	0.0	C	A*D	A/S @ 21:42 GMT (-0.4.ML)
130889	125002.3	56.18	-6.39	127.8	706.9	1.0	1.2	COLONSAY,STRATHCLYDE		6127	349	0.25	2.4	1.2	C	B*D		
030389	070301.9	56.16	-3.59	301.1	697.7	3.0	0.9	POWMILL,TAYSIDE		7	11	182	0.28	6.9	81.2	D	D*D	COALFIELD TYPE F/S 3.7S BEFORE,A/S 4.8S AFTER
080789	203521.4	56.15	-4.19	263.6	698.0	12.2	0.7	THORNHILL,CENTRAL		8	10	166	0.31	3.6	6.0	C	C*C	
150989	102924.0	56.15	-4.17	265.4	697.7	4.5	0.9	THORNHILL,CENTRAL		8	11	123	0.09	2.1	4.8	C	B*C	F/S @ 05:16 GMT (14TH) A/S @ 00:11 GMT (17TH)
220889	064756.9	56.13	-4.15	266.6	695.3	7.0	0.7	KIPPEN,CENTRAL		5	14	186	0.33	33.0	72.9	D	D*D	
240889	225409.2	56.12	-4.14	267.0	694.5	3.6	0.1	KIPPEN,CENTRAL		4	14	229	0.34	0.0	0.0	D	C*D	
090689	142916.9	56.12	-3.76	290.4	693.6	8.6	1.2	CLACKMANNAN,CENTRAL		4	21	260	0.07	0.0	0.0	C	A*D	COALFIELD TYPE
231089	182536.2	56.12	-3.70	294.5	693.1	0.6	1.5	CLACKMANNAN,CENTRAL	4+	12	19	127	0.05	0.2	0.2	B	A*C	COALFIELD TYPE,FELT AT GARTFINNAN FARM
060489	142022.8	56.12	-3.68	295.6	692.8	1.0	1.1	FOREST MILL,CENTRAL		6	18	245	0.11	2.2	1.9	C	B*D	COALFIELD TYPE
110889	112135.1	56.11	-3.76	290.7	691.7	1.3	1.3	CLACKMANNAN,CENTRAL	4+	12	22	137	0.09	0.3	0.5	B	A*C	COALFIELD TYPE,FELT CLACKMANNAN

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Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
040989	144554.4	56.11	-3.65	297.3	691.6	0.2	1.3	BLAIRHALL, FIFE		10	18	125	0.22	0.8	1.2	C	B*C	COALFIELD TYPE
100189	124738.7	56.11	-3.64	298.3	691.8	0.5	1.0	BLAIRHALL, FIFE		10	17	122	0.16	0.6	0.8	C	B*C	COALFIELD TYPE
270689	134136.0	56.11	-3.64	298.1	691.9	2.5	1.4	BLAIRHALL, FIFE		6	18	229	0.04	1.2	0.7	C	B*D	COALFIELD TYPE
241089	144508.7	56.11	-3.64	297.9	691.7	0.2	1.5	BLAIRHALL, FIFE		9	18	123	0.08	0.3	0.5	B	A*C	COALFIELD TYPE
081289	140633.0	56.11	-3.64	297.9	692.1	0.1	1.4	BLAIRHALL, FIFE		13	17	123	0.13	0.3	0.4	B	A*C	COALFIELD TYPE
050489	121742.2	56.11	-3.63	298.9	692.3	1.0	1.4	BLAIRHALL, FIFE		8	17	192	0.11	1.1	1.1	C	B*D	COALFIELD TYPE
030589	134635.9	56.11	-3.63	298.4	691.8	0.5	1.3	BLAIRHALL, FIFE		4	17	227	0.00	0.0	0.0	C	A*D	COALFIELD TYPE
280389	212025.5	56.10	-3.75	291.2	691.4	0.5	1.2	GLACKMANNAN, CENTRAL		10	22	137	0.09	0.4	0.5	B	A*C	COALFIELD TYPE
020889	025902.5	56.02	-5.20	200.5	684.9	0.0	0.5	GLENDARUEL, STRATHCLYDE		5	57	351	0.32	45.0	34.4	D	D*D	
130389	010121.0	55.98	-4.39	250.8	678.8	2.9	0.3	STRATHBLANE, S'CLYDE		12	18	132	0.23	0.8	5.1	C	C*C	
130389	100937.6	55.97	-4.40	250.0	678.1	3.7	0.5	STRATHBLANE, S'CLYDE		11	19	133	0.13	0.5	2.6	C	B*C	
010389	101937.9	55.97	-4.39	250.7	678.0	4.0	2.3	STRATHBLANE, S'CLYDE		21	19	130	0.07	0.2	0.6	B	A*C	
120389	070232.3	55.97	-4.39	250.6	678.1	2.7	0.3	STRATHBLANE, S'CLYDE		8	19	131	0.09	0.5	130.6	C	C*C	
280489	032127.5	55.97	-4.39	250.9	677.8	3.3	0.4	STRATHBLANE, CENTRAL		9	18	129	0.13	0.5	18.4	C	C*C	
150589	132117.5	55.97	-4.39	250.6	677.7	3.6	1.6	RENFREW, STRATHCLYDE		10	18	130	0.08	0.4	2.8	C	B*C	
050789	043227.3	55.96	-4.39	251.0	677.3	1.1	0.0	MILNGAVIE, STRATHCLYDE		4	18	203	0.00	0.0	0.0	C	A*D	
270189	224243.8	55.95	-4.77	226.9	676.9	0.9	0.3	GREENOCK, STRATHCLYDE		6	12	235	0.18	0.3	0.3	C	B*D	
251289	062212.5	55.94	-3.43	311.0	672.3	2.6	0.1	BROXBURN, LOTHIAN		8	10	161	0.10	0.5	136.9	C	C*C	
261189	061207.1	55.93	-3.42	311.1	672.3	3.4	0.6	BROXBURN, LOTHIAN		11	10	101	0.13	0.5	3.8	C	B*C	
241189	085137.7	55.88	-3.12	330.0	665.6	1.7	0.2	LASSWADE, LOTHIAN		6	4	198	0.02	0.5	0.4	C	A*D	COALFIELD TYPE
050389	192921.9	55.87	-4.44	247.5	667.2	3.6	0.7	RENFREW, STRATHCLYDE		9	8	109	0.03	0.2	1.2	B	A*B	
060489	091809.0	55.87	-3.14	328.8	664.9	1.6	0.6	POLTON, LOTHIAN		4	6	289	0.04	0.0	0.0	C	A*D	COALFIELD TYPE
220389	152701.8	55.86	-3.13	329.3	663.1	0.5	0.4	ROSEWELL, LOTHIAN		8	1	245	0.03	0.1	0.7	C	A*D	COALFIELD TYPE
100489	191352.4	55.86	-3.13	329.2	663.4	1.6	0.5	ROSEWELL, LOTHIAN		13	1	223	0.05	0.3	0.1	C	A*D	COALFIELD TYPE
110489	141154.4	55.86	-3.13	329.4	663.3	0.9	0.6	ROSEWELL, LOTHIAN		10	1	255	0.03	0.2	0.3	C	A*D	COALFIELD TYPE
170489	103105.0	55.86	-3.13	329.4	663.4	1.5	0.8	ROSEWELL, LOTHIAN		17	1	106	0.09	0.4	0.2	B	A*B	COALFIELD TYPE
190489	220130.6	55.86	-3.13	329.3	663.5	1.7	0.5	ROSEWELL, LOTHIAN		14	1	177	0.07	0.4	0.1	B	A*C	COALFIELD TYPE
210489	121545.7	55.86	-3.13	329.5	663.5	1.7	0.7	ROSEWELL, LOTHIAN		16	1	233	0.10	0.5	0.2	C	A*D	COALFIELD TYPE
250489	155225.5	55.86	-3.13	329.4	663.4	0.6	0.7	ROSEWELL, LOTHIAN		10	1	283	0.04	0.3	0.7	C	A*D	COALFIELD TYPE
210389	180708.2	55.86	-3.12	329.6	663.4	1.2	-0.1	ROSEWELL, LOTHIAN		8	1	261	0.05	0.5	0.9	C	A*D	COALFIELD TYPE
310389	052004.6	55.86	-3.12	329.8	663.6	0.2	0.2	ROSEWELL, LOTHIAN		9	1	271	0.05	0.4	0.2	C	A*D	COALFIELD TYPE
020489	223640.6	55.86	-3.12	329.6	663.4	0.8	0.5	ROSEWELL, LOTHIAN		7	1	292	0.03	0.4	1.0	C	A*D	COALFIELD TYPE
260489	010840.2	55.86	-3.12	329.9	663.4	0.6	0.5	ROSEWELL, LOTHIAN		10	1	302	0.02	0.7	1.2	C	A*D	COALFIELD TYPE
270489	194727.1	55.86	-3.12	329.7	663.4	1.1	0.6	ROSEWELL, LOTHIAN		10	1	297	0.01	0.1	0.2	C	A*D	COALFIELD TYPE
040589	180628.1	55.86	-3.12	329.8	663.5	1.4	0.1	ROSEWELL, LOTHIAN		9	1	282	0.06	0.9	0.5	C	A*D	COALFIELD TYPE
110589	012902.9	55.86	-3.12	329.8	663.2	1.2	0.0	ROSEWELL, LOTHIAN		9	1	246	0.06	0.6	1.0	C	A*D	COALFIELD TYPE
240389	000559.3	55.86	-3.11	330.4	663.0	1.5	0.4	ROSEWELL, LOTHIAN		10	2	264	0.05	0.4	0.3	C	A*D	COALFIELD TYPE
130589	012927.2	55.86	-3.11	330.3	663.7	1.1	0.0	ROSEWELL, LOTHIAN		9	2	253	0.03	0.4	1.0	C	A*D	COALFIELD TYPE
130489	050433.1	55.86	-3.10	330.9	663.3	2.6	-0.3	ROSEWELL, LOTHIAN		5	9	193	0.02	0.4	44.9	D	C*D	COALFIELD TYPE
030589	233641.5	55.86	-3.09	331.6	663.1	1.0	0.2	ROSEWELL, LOTHIAN		7	3	303	0.05	1.1	1.3	C	B*D	COALFIELD TYPE
170189	062330.7	55.85	-3.14	328.9	662.7	1.1	1.4	ROSEWELL, LOTHIAN		22	1	77	0.08	0.2	0.1	A	A*A	COALFIELD TYPE
130489	050319.4	55.85	-3.14	328.8	662.7	0.1	0.8	ROSEWELL, LOTHIAN		7	9	121	0.12	0.4	0.5	B	A*B	COALFIELD TYPE
100189	234813.5	55.85	-3.13	329.1	662.6	1.4	1.6	ROSEWELL, LOTHIAN		19	1	72	0.09	0.3	0.1	A	A*A	COALFIELD TYPE
190389	095631.9	55.85	-3.13	329.1	662.9	0.5	0.6	ROSEWELL, LOTHIAN		8	1	235	0.02	0.2	0.3	C	A*D	COALFIELD TYPE
310889	201848.0	55.85	-3.13	329.0	662.8	1.4	0.5	ROSEWELL, LOTHIAN		10	1	220	0.03	0.2	0.2	C	A*D	COALFIELD TYPE
020489	223240.2	55.85	-3.12	330.1	662.9	1.4	-0.1	ROSEWELL, LOTHIAN		5	9	182	0.04	0.0	0.0	C	A*D	COALFIELD TYPE
080489	045620.5	55.85	-3.12	329.6	662.6	1.4	0.9	ROSEWELL, LOTHIAN		7	9	118	0.08	0.4	0.4	B	A*B	COALFIELD TYPE
110689	213450.9	55.85	-3.12	330.1	662.6	1.1	0.4	ROSEWELL, LOTHIAN		13	2	106	0.06	0.3	0.2	B	A*B	COALFIELD TYPE
160789	220212.9	55.85	-3.12	329.7	662.5	0.2	0.7	ROSEWELL, LOTHIAN		9	9	119	0.05	0.3	0.2	B	A*B	COALFIELD TYPE
181189	212448.7	55.85	-3.11	330.2	662.9	1.0	0.4	ROSEWELL, LOTHIAN		9	3	113	0.05	0.3	0.3	B	A*B	COALFIELD TYPE

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060789	043017.8	55.78	-5.44	184.3	659.8	3.9	1.2	CLAONIG,KINTYRE		10	44	320	0.18	9.0	19.5	D	D*D	
120189	022552.7	55.78	-2.83	348.1	653.9	2.0	0.2	LAUDER,BORDERS		8	14	229	0.13	1.7	1.5	C	B*D	
061289	062929.8	55.76	-3.09	331.7	652.2	6.1	0.3	GLADHOUSE RES,LOTHIAN		8	3	233	0.10	1.0	0.5	C	A*D	
050989	221826.0	55.75	-4.60	236.8	653.9	5.4	0.1	BEITH,STRATHCLYDE		6	10	215	0.04	1.6	4.7	C	B*D	
060789	043509.0	55.72	-5.44	183.8	652.9	5.0	1.2	CLAONIG,KINTYRE		6	46	321	0.12	17.8	39.4	D	D*D	
101289	045118.0	55.62	-2.98	338.4	636.9	8.5	0.5	INNERLEITHEN,BORDERS		7	17	275	0.24	3.1	11.6	D	C*D	
060489	225410.3	55.61	-3.21	323.8	635.5	3.6	0.1	PEEBLES,BORDERS		10	21	150	0.19	1.0	2.9	C	B*C	
230589	151809.3	55.58	-3.03	334.8	632.7	5.7	1.6	TRAQUAIR,BORDERS		11	21	118	0.10	0.6	0.7	B	A*C	
040789	170003.4	55.56	-5.62	171.8	635.6	2.1	1.7	SADDELL,KINTYRE		12	77	327	0.37	11.9	8.5	D	D*D	
101089	103253.2	55.44	-3.13	328.8	617.0	3.9	1.6	ETTRICK,BORDERS	3+	12	15	96	0.10	0.6	1.6	B	A*C	FELT AT TUSHIELAW INN
281289	224028.7	55.30	-2.63	359.7	601.1	2.5	0.1	NEWCASTLETON,BORDERS		6	32	198	0.09	2.0	1.2	C	B*D	
281289	153615.3	55.28	-3.01	335.8	598.6	0.2	0.5	ESKDALE,D & G		10	13	195	0.27	1.4	1.5	C	B*D	
301289	123340.0	55.25	-3.42	309.5	596.3	9.6	0.3	MOFFAT,D & G		4	16	310	0.07	0.0	0.0	C	A*D	
010189	202738.4	55.24	-3.44	308.7	595.3	6.1	0.7	JOHNSTONEBRIDGE,D & G		8	17	250	0.07	0.8	1.1	C	A*D	
230189	112328.3	55.24	-3.38	312.4	594.6	0.5	0.1	JOHNSTONEBRIDGE,D & G		4	14	300	0.01	0.0	0.0	C	A*D	
180189	015936.0	55.23	-3.40	311.2	594.2	1.4	0.5	JOHNSTONEBRIDGE,D & G		4	15	304	0.01	0.0	0.0	C	A*D	
160589	050731.4	55.22	-3.44	308.1	592.6	4.1	0.3	CARRONBRIDGE,DUMFRIES		6	19	298	0.09	1.8	1.9	C	B*D	
010289	162715.6	55.21	-2.95	339.2	590.5	4.3	0.2	LANGHOLM,D & G		5	11	202	0.09	0.0	0.1	C	A*D	
190189	191048.8	55.01	-3.88	279.8	570.3	1.1	0.7	CASTLE DOUGLAS,D & G		4	52	343	0.08	0.0	0.0	C	A*D	
271089	010705.6	54.96	-1.37	440.1	562.6	0.5	1.7	WHITBURN,TYNE & WEAR		11	55	266	0.25	3.7	2.6	D	C*D	COALFIELD TYPE
191289	140251.2	54.87	-1.27	446.8	552.7	0.5	1.8	RYHOPE,TYNE & WEAR		15	61	285	0.25	4.2	3.2	D	C*D	OFFSHORE,COALFIELD TYPE
010389	181249.1	54.86	-1.10	458.0	551.9	6.6	1.6	SUNDERLAND,TYNE & WEAR		8	72	316	0.30	7.1	12.4	D	D*D	
161289	012333.6	54.84	-2.64	359.2	549.1	4.9	0.8	CROGLIN FELL,CUMBRIA		10	27	153	0.16	1.2	2.5	C	B*C	
061189	005434.4	54.68	-2.83	346.7	532.4	2.4	0.9	PENRITH,CUMBRIA		11	36	97	0.25	1.4	2.2	C	B*C	
050989	092111.3	54.54	-4.03	268.4	518.6	1.4	1.2	IRISH SEA		9	36	169	0.27	2.0	3.6	C	B*C	OFFSHORE,ST.BEES HEAD
050989	161323.7	54.54	-0.88	472.3	516.1	0.4	2.4	LOFTUS,CLEVELAND	5	19	81	236	0.36	2.8	1.8	D	C*D	FELT LOFTUS,EASINGTON, STAITHES & BOULBY
100289	150650.0	54.40	-2.97	337.3	501.3	5.8	1.3	AMBLESIDE,CUMBRIA		8	36	245	0.17	3.6	11.7	D	C*D	
121189	162721.2	54.39	-3.08	329.9	499.6	5.4	0.6	CONISTON,CUMBRIA		11	14	101	0.20	0.8	1.6	C	B*C	
170489	234214.9	54.38	-3.86	279.4	500.0	1.2	1.3	IRISH SEA		7	28	319	0.10	5.2	3.5	D	D*D	
310589	061718.9	54.33	-2.44	371.1	492.5	6.9	1.9	SEDBERGH,CUMBRIA		9	61	159	0.10	0.8	2.0	C	B*D	
221289	113844.7	54.02	1.14	605.9	462.7	30.1	2.6	SOUTHERN NORTH SEA		21126	220	0.29	2.0	3.2	C	B*D		
070689	161951.8	53.97	-1.97	401.9	452.9	0.2	1.4	SKIPTON,N YORKSHIRE		10100	307	0.29	17.3	11.8	D	D*D		
100289	184145.7	53.91	-1.32	444.8	446.7	9.8	1.2	WETHERBY,W YORKSHIRE		11	21	216	0.32	2.5	3.4	D	C*D	
070189	014009.9	53.63	-2.05	396.6	414.6	10.0	1.2	LITTLEBOROUGH,GTR MAN		16	31	102	0.10	0.4	1.9	B	A*C	
110389	140117.8	53.59	-2.37	375.5	410.2	2.5	1.7	BOLTON,GTR MANCHESTER		9	48	174	0.20	6.0	1.3	D	D*C	POSSIBLE COALFIELD TYPE
200989	055723.9	53.57	-2.25	383.5	408.7	0.2	1.5	PRESTWICH,MANCHESTER	3+	7	37	170	0.29	2.5	3.0	C	B*C	COALFIELD TYPE,FELT WHITEFIELD
200489	120839.6	53.55	-1.97	402.2	406.4	4.6	2.2	MOSSLEY,GTR MANCHESTER		11	50	206	0.09	2.8	1.6	D	C*D	
191289	215007.3	53.54	-4.93	206.0	409.4	9.5	0.1	IRISH SEA		8	31	320	0.06	1.4	4.0	C	B*D	
020889	010113.5	53.54	-2.29	380.6	404.5	1.1	1.5	PRESTWICH,MANCHESTER	2+	19	53	78	0.40	1.0	1.5	D	C*D	COALFIELD TYPE,FELT WHITEFIELD
241089	172558.2	53.53	-2.70	353.3	404.1	14.6	1.4	WIGAN,LANCASHIRE		21	32	73	0.15	0.4	0.7	B	A*C	
200789	101207.9	53.47	-4.28	248.7	399.7	11.3	0.6	AMLWCH,GWYNEDD		5	9	311	0.00	0.1	0.1	C	A*D	
051289	190046.1	53.47	-4.26	249.7	399.0	13.0	0.4	ANGLESEY,GWYNEDD		7	8	316	0.01	0.3	0.2	C	A*D	NORTHEAST OF ANGLESEY
091289	012446.2	53.47	-2.49	367.5	396.9	0.4	1.0	CULCHETH,MANCHESTER		13	43	241	0.30	3.1	3.1	D	C*D	COALFIELD TYPE
131289	042256.0	53.46	-2.49	367.2	395.6	0.5	1.3	CULCHETH,MANCHESTER		18	44	67	0.25	0.9	1.6	C	B*C	COALFIELD TYPE
160989	044910.4	53.46	-2.45	370.1	396.1	0.4	1.1	CHAT MOSS,MANCHESTER		9	44	129	0.16	0.4	0.7	C	B*C	COALFIELD TYPE
220889	011552.4	53.44	-2.52	365.7	393.9	0.5	1.3	CULCHETH,MANCHESTER		14	46	111	0.33	1.2	2.8	C	C*C	COALFIELD TYPE
011289	034441.7	53.43	-2.57	362.0	392.9	0.2	1.2	WARRINGTON,CHESHIRE		15	46	107	0.10	0.3	0.5	B	A*C	COALFIELD TYPE

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230489	214353.8	53.43	-0.61	492.6	393.7	18.1	2.4	GAINSBOROUGH,LINCS		9	46	212	0.15	1.3	1.3	C	B*D	EAST OF GAINSBOROUGH
131289	093030.4	53.42	-2.58	361.4	392.0	0.1	1.6	WARRINGTON,CHESHIRE		22	47	86	0.25	0.6	1.0	C	B*C	COALFIELD TYPE
171189	224008.8	53.42	-2.56	362.7	391.8	0.1	1.6	WARRINGTON,CHESHIRE		21	48	86	0.31	0.9	1.3	C	C*C	COALFIELD TYPE
121189	102805.6	53.41	-2.56	363.1	390.8	0.3	1.4	WARRINGTON,CHESHIRE		15	49	174	0.23	0.9	1.0	C	B*C	COALFIELD TYPE
230889	052650.4	53.41	-2.41	372.9	390.1	1.0	1.6	PARTINGTON,MANCHESTER		6	50	332	0.10	8.6	6.4	D	D*D	COALFIELD TYPE
130489	200823.0	53.40	-1.26	449.1	390.0	0.3	1.6	WICKERSLEY,S YORKSHIRE		8	24	159	0.38	2.8	4.3	C	C*C	COALFIELD TYPE
250889	131907.7	53.38	-1.21	452.8	387.7	0.4	1.8	DINNINGTON,S YORKSHIRE		8	26	297	0.43	11.5	5.7	D	D*D	COALFIELD TYPE
040889	042415.8	53.35	-1.82	412.2	383.6	13.4	1.6	CASTLETON,DERBYSHIRE		12	22	132	0.13	0.8	1.5	B	A*B	
040289	115109.2	53.34	-1.77	415.6	382.1	2.8	1.8	CASTLETON,DERBYSHIRE		16	18	110	0.31	0.6	1.5	C	C*C	
040389	161420.8	53.33	-3.33	311.7	382.7	8.2	1.1	PRESTATYN,CLWYD		18	40	281	0.16	1.1	1.5	C	B*D	
110189	025130.7	53.33	-0.93	471.5	382.2	1.0	1.8	RETFORD,NOTTS		7	41	252	0.07	3.0	1.5	D	C*D	COALFIELD TYPE
040289	002817.1	53.32	-0.89	473.9	380.5	0.7	2.2	RETFORD,NOTTS		9	43	252	0.36	7.2	3.6	D	D*D	EAST OF RETFORD,COALFIELD TYPE
291289	150336.8	53.30	-1.70	419.7	377.9	1.0	1.6	BUXTON,DERBYSHIRE		4	13	276	0.12	0.0	0.0	C	A*D	
270789	000754.8	53.29	-1.31	446.3	376.8	4.9	0.7	STAVELEY,DERBYSHIRE		5	15	283	0.16	6.0	5.6	D	D*D	COALFIELD TYPE
020689	061005.1	53.27	-3.77	281.8	376.6	18.4	0.9	COLWYN BAY,CLWYD		25	9	176	0.15	0.6	0.7	B	A*C	
130989	124242.5	53.26	-1.82	412.2	373.4	1.6	1.1	THORESBY,NOTTS	2+	4	19	267	0.12	0.0	0.0	C	A*D	COALFIELD TYPE FELT THORESBY
101189	031757.4	53.26	-1.00	466.7	373.8	3.8	1.1	THORESBY,NOTTS		4	35	290	0.36	0.0	0.0	D	C*D	COALFIELD TYPE
081089	011703.8	53.25	-1.04	464.3	372.7	7.6	0.8	THORESBY,NOTTS		4	33	286	0.03	0.0	0.0	C	A*D	COALFIELD TYPE
201089	032520.2	53.25	-1.02	465.4	372.6	7.6	1.3	THORESBY,NOTTS		4	34	287	0.08	0.0	0.0	C	A*D	COALFIELD TYPE
040989	124814.7	53.24	-1.79	413.7	371.8	0.5	2.1	BUXTON,DERBYSHIRE		11	05	312	0.22	13.8	9.2	D	D*D	COALFIELD TYPE
200189	154724.7	53.24	-1.41	439.5	371.4	0.2	1.6	CHESTERFIELD,DERBS		10	8	129	0.71	3.4	4.3	C	D*B	POSSIBLE COALFIELD TYPE
240989	174344.2	53.24	-1.09	460.8	371.3	17.9	1.1	THORESBY,NOTTS	2+	4	29	218	0.06	0.0	0.0	C	A*D	COALFIELD TYPE,FELT THORESBY
200989	175352.5	53.24	-1.08	461.2	372.3	18.9	1.2	THORESBY,NOTTS	2+	4	30	283	0.00	0.0	0.0	C	A*D	COALFIELD TYPE,FELT THORESBY
211089	144307.3	53.24	-1.05	463.7	371.8	5.9	1.2	THORESBY,NOTTS		4	32	284	0.09	0.0	0.0	C	A*D	COALFIELD TYPE
090989	021606.9	53.24	-1.02	465.3	371.5	3.4	1.3	THORESBY,NOTTS	2+	6	34	223	0.09	0.3	0.5	C	A*D	COALFIELD TYPE,FELT THORESBY
251189	154100.9	53.23	-1.06	462.7	370.6	3.5	1.1	THORESBY,NOTTS		4	31	281	0.06	0.0	0.0	C	A*D	COALFIELD TYPE
091289	182043.3	53.23	-1.04	464.2	370.2	2.5	1.1	THORESBY,NOTTS		5	33	218	0.17	3.0	3.6	D	C*D	COALFIELD TYPE
170989	101542.2	53.23	-1.03	464.7	370.3	1.8	1.0	THORESBY,NOTTS	2+	4	33	283	0.10	0.0	0.0	C	A*D	COALFIELD TYPE,FELT THORESBY
021089	233658.8	53.23	-1.03	464.9	370.6	2.0	1.2	THORESBY,NOTTS		5	33	220	0.04	1.2	1.4	C	B*D	COALFIELD TYPE
120989	232113.3	53.23	-1.02	465.1	370.4	2.8	1.0	THORESBY,NOTTS	2+	5	34	219	0.09	2.4	4.0	C	B*D	COALFIELD TYPE,FELT THORESBY
201189	203538.5	53.22	-1.09	460.8	369.2	3.9	1.3	THORESBY,NOTTS	2+	4	30	277	0.09	0.0	0.0	C	A*D	COALFIELD TYPE,FELT THORESBY
071289	003152.1	53.22	-1.09	460.8	369.6	7.0	0.9	THORESBY,NOTTS	2+	5	30	212	0.09	2.8	11.3	D	C*D	COALFIELD TYPE,FELT THORESBY
011289	041534.9	53.22	-1.08	461.4	369.8	4.5	1.1	THORESBY,NOTTS	2+	5	30	214	0.11	0.8	1.6	C	A*D	COALFIELD TYPE,FELT THORESBY
120989	010215.5	53.22	-1.04	463.9	369.2	1.5	1.0	THORESBY,NOTTS		6	33	215	0.12	1.6	2.2	C	B*D	COALFIELD TYPE
260889	145654.3	53.22	-1.03	464.4	369.2	2.3	1.1	THORESBY,NOTTS		5	33	281	0.15	0.9	0.7	C	A*D	COALFIELD TYPE
020989	075143.8	53.22	-1.03	464.4	370.1	9.3	0.8	THORESBY,NOTTS	2+	4	19	200	0.10	0.0	0.0	C	A*D	COALFIELD TYPE,FELT THORESBY
130989	222919.6	53.22	-1.03	464.4	370.1	2.9	1.2	THORESBY,NOTTS	2+	5	33	231	0.11	0.6	1.2	C	A*D	COALFIELD TYPE,FELT THORESBY
060989	223928.0	53.22	-0.98	468.2	369.3	0.0	1.0	THORESBY,NOTTS	2+	5	37	286	0.19	19.6	14.9	D	D*D	COALFIELD TYPE,FELT THORESBY

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Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
031189	191346.9	53.21	-1.11	459.5	368.4	3.4	1.0	THORESBY,NOTTS	2+	4	28	274	0.09	0.0	0.0	C	A*D	THORESBY COALFIELD TYPE,FELT
010889	023554.3	53.20	-1.10	460.4	367.2	1.7	0.8	WARSOP,NOTTINGHAMSHIRE		4	30	273	0.05	0.0	0.0	C	A*D	THORESBY COALFIELD TYPE
161289	045424.8	53.20	-1.10	460.1	367.1	0.7	1.2	THORESBY,NOTTS	2+	4	29	272	0.07	0.0	0.0	C	A*D	COALFIELD TYPE,FELT THORESBY
220989	193820.0	53.20	-1.09	460.9	367.9	1.4	1.1	THORESBY,NOTTS	2+	4	30	275	0.06	0.0	0.0	C	A*D	COALFIELD TYPE,FELT THORESBY
220889	012058.8	53.19	-1.09	460.9	366.6	1.0	1.2	CLIPSTONE,NOTTS		4	30	273	0.14	0.0	0.0	C	A*D	
050889	041904.0	53.19	-1.08	461.7	366.8	1.0	0.9	WARSOP,NOTTINGHAMSHIRE		4	31	274	0.17	0.0	0.0	C	B*D	COALFIELD TYPE
280789	231233.4	53.18	-1.15	457.0	364.6	0.9	0.8	MANSFIELD,NOTTS		4	27	263	0.15	0.0	0.0	C	B*D	COALFIELD TYPE
100889	193500.6	53.18	-1.15	456.7	365.7	2.6	1.0	WARSOP,NOTTINGHAMSHIRE		4	26	265	0.09	0.0	0.0	C	A*D	COALFIELD TYPE
120889	135847.2	53.17	-1.14	457.8	364.4	0.9	0.9	MANSFIELD,NOTTS		4	28	264	0.22	0.0	0.0	C	B*D	COALFIELD TYPE
020789	170131.0	53.16	-3.96	269.2	364.1	12.8	0.3	BETHESDA,GWYNEDD		13	12	130	0.09	0.5	0.8	B	A*B	
160689	221039.3	53.16	-1.36	443.1	362.8	0.2	0.5	W MANSFIELD,NOTTS		4	16	223	0.03	0.0	0.0	C	A*D	COALFIELD TYPE
150889	203748.6	53.16	-1.18	454.9	362.8	2.7	1.0	MANSFIELD,NOTTS		4	26	256	0.17	0.0	0.0	C	B*D	COALFIELD TYPE
180189	171605.9	53.15	-3.73	284.1	362.9	15.4	0.5	LLANRWST,GWYNEDD		8	18	306	0.09	1.4	1.3	C	B*D	
220789	002547.2	53.15	-1.03	464.6	361.7	0.5	1.7	BILSTHORPE,NOTTS		7	35	225	0.14	1.6	1.4	C	B*D	COALFIELD TYPE
180789	072208.8	53.14	-0.59	494.4	361.7	1.0	1.1	LINCOLN,LINCOLNSHIRE		4	64	306	0.16	0.0	0.0	C	B*D	
250989	102705.0	53.12	-2.67	355.3	357.9	7.2	2.0	RIDLEY,CHESHIRE		15	46	276	0.25	2.9	4.5	D	C*D	
171289	073248.9	53.12	-2.14	390.6	348.6	7.7	1.8	STOKE-ON-TRENT,STAFFS		10	23	168	0.24	1.3	2.9	C	B*C	
200789	010548.5	53.12	-1.14	457.6	358.0	0.4	1.6	RAINWORTH,NOTTS		6	30	214	0.19	3.3	2.7	D	C*D	COALFIELD TYPE
310589	185914.6	53.12	-1.08	461.7	358.4	0.1	0.7	RAINWORTH,NOTTS		5	34	263	0.03	2.4	1.4	C	B*D	COALFIELD TYPE
100589	183442.9	53.11	-2.06	395.9	357.5	25.2	1.5	LEEK,STAFFORDSHIRE		8	18	163	0.15	1.6	1.5	C	B*C	
140789	222533.3	53.07	-1.24	451.1	352.9	2.3	0.6	KIRKBY-IN-ASHFLD,NOTTS		8	28	149	0.22	1.4	2.3	C	B*C	
290889	224932.0	53.07	-1.23	451.3	353.2	2.6	0.9	ANNESLEY,NOTTS		7	28	150	0.05	0.4	3.3	C	B*C	
241289	034712.2	53.07	-2.13	676.9	360.7	8.7	2.0	SOUTHERN NORTH SEA		7	53	314	0.32	5.2	93.1	D	D*D	
020589	174237.4	53.05	-2.19	387.1	350.2	2.4	1.6	STOKE-ON-TRENT,STAFFS		14	24	156	0.24	1.1	1.1	C	B*C	
250689	234438.5	53.05	-2.12	392.0	350.7	17.5	1.4	STOKE-ON-TRENT,STAFFS		13	19	138	0.22	1.5	1.5	C	B*C	
260189	035309.7	53.05	-1.04	464.3	350.8	0.1	1.9	OXTON,NOTTS		6	32	162	0.16	1.2	1.5	C	B*C	COALFIELD TYPE
270589	141600.8	53.04	-4.45	235.6	351.6	10.2	1.4	CAERNARVON BAY,GWYNEDD		24	6	97	0.22	0.6	1.0	B	B*B	
070589	231601.1	53.04	-2.20	386.8	348.6	3.2	2.0	STOKE-ON-TRENT,STAFFS		17	24	154	0.18	0.9	2.0	C	B*C	
181289	160220.4	53.04	-2.19	387.2	349.0	2.5	1.7	STOKE-ON-TRENT,STAFFS		5	24	163	0.04	0.9	1.3	C	A*D	
080189	102628.0	53.03	-2.20	386.4	348.3	2.3	1.1	STOKE-ON-TRENT,STAFFS		6	24	153	0.17	0.7	0.9	C	B*C	
110689	004759.9	53.03	-2.20	386.5	347.8	4.0	1.1	STOKE-ON-TRENT,STAFFS		6	24	152	0.02	0.2	0.5	B	A*C	
020589	122740.7	53.03	-2.19	387.3	348.3	3.9	2.0	STOKE-ON-TRENT,STAFFS		16	23	153	0.14	0.8	1.5	B	A*C	
100689	084121.9	53.03	-2.19	387.2	348.2	4.5	2.2	STOKE-ON-TRENT,STAFFS		21	24	138	0.19	0.7	1.5	C	B*C	
020589	143154.6	53.03	-2.18	387.7	347.8	6.3	1.6	STOKE-ON-TRENT,STAFFS		10	23	152	0.08	0.5	0.8	B	A*C	
100689	092851.2	53.03	-2.18	387.8	348.4	5.3	2.0	STOKE-ON-TRENT,STAFFS		20	23	137	0.14	0.5	0.8	B	A*C	
170689	202603.5	53.03	-2.18	388.1	347.6	4.0	1.0	STOKE-ON-TRENT,STAFFS		10	23	151	0.07	0.5	0.9	B	A*C	
060189	053935.8	53.03	-2.17	388.8	348.5	7.4	1.2	STOKE-ON-TRENT,STAFFS		8	22	152	0.09	0.8	1.9	B	A*C	
091089	193426.5	53.03	-2.42	696.5	356.9	0.0	3.2	SOUTHERN NORTH SEA		17	87	287	0.69	6.3	3.6	D	D*D	
231089	113313.8	53.02	-3.64	289.8	348.9	12.4	0.5	BALA,GWYNEDD		21	10	151	0.15	0.5	0.6	B	A*C	NORTH OF BALA
070189	230805.1	53.02	-2.20	386.4	346.7	2.6	1.1	STOKE-ON-TRENT,STAFFS		6	24	115	0.16	1.4	4.1	C	B*C	
080189	102455.9	53.02	-2.20	386.8	347.5	2.5	0.8	STOKE-ON-TRENT,STAFFS		4	24	152	0.01	0.0	0.0	C	A*D	
070589	231742.8	53.02	-2.20	386.8	347.3	2.3	1.8	STOKE-ON-TRENT,STAFFS		14	24	112	0.19	0.6	0.9	C	B*C	
070189	133317.8	53.02	-2.19	387.5	346.8	2.6	1.9	STOKE-ON-TRENT,STAFFS		14	23	111	0.21	1.0	2.4	C	B*C	
060189	053624.9	53.02	-2.18	387.7	346.7	3.9	1.9	STOKE-ON-TRENT,STAFFS		17	23	111	0.16	0.9	1.5	C	B*C	
240489	042450.5	53.02	-2.18	387.9	347.3	5.2	1.4	STOKE-ON-TRENT,STAFFS		10	23	151	0.15	1.1	1.8	C	B*C	
100589	164507.4	53.02	-2.18	387.9	347.5	2.5	1.6	STOKE-ON-TRENT,STAFFS		9	23	151	0.06	0.4	0.9	B	A*C	

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Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
140689	044009.8	53.02	-2.18	387.8	347.0	4.5	1.4	STOKE-ON-TRENT, STAFFS		10	23	151	0.17	1.0	2.1	C	B*C	
080289	221452.5	53.02	-2.15	389.9	347.0	9.0	1.4	STOKE-ON-TRENT, STAFFS		7	21	149	0.14	1.6	3.4	C	B*C	
250689	230537.0	53.02	-2.15	389.8	347.3	6.5	1.0	STOKE-ON-TRENT, STAFFS		5	21	299	0.06	2.2	1.5	C	B*D	
070189	141637.6	53.01	-2.19	387.6	346.3	3.3	2.1	STOKE-ON-TRENT, STAFFS		15	23	117	0.14	0.6	1.3	B	A*C	
090389	003658.0	53.01	-2.18	387.7	345.7	1.8	1.8	STOKE-ON-TRENT, STAFFS		16	23	119	0.28	1.1	1.4	C	B*C	
040189	022857.2	53.01	-2.17	388.6	345.8	4.2	1.6	STOKE-ON-TRENT, STAFFS		11	22	119	0.12	0.6	1.1	B	A*C	
070189	112330.8	53.01	-2.17	388.5	346.4	5.5	1.4	STOKE-ON-TRENT, STAFFS		10	22	149	0.09	0.6	1.0	B	A*C	
020389	033431.1	53.01	-2.14	390.9	346.4	9.7	1.3	STOKE-ON-TRENT, STAFFS		7	20	148	0.08	0.8	1.5	B	A*C	
080189	024852.9	53.01	-2.13	391.3	345.6	9.8	1.2	STOKE-ON-TRENT, STAFFS		6	19	121	0.05	0.4	0.6	B	A*B	
120189	064352.5	53.01	-2.11	392.3	346.4	12.6	1.3	STOKE-ON-TRENT, STAFFS		9	18	147	0.06	0.7	1.1	B	A*C	
040989	053611.6	53.00	-4.61	225.1	347.7	20.2	1.1	LLEYN, GWYNEDD		18	12	180	0.08	0.4	0.7	B	A*C	OFFSHORE LOCATION
081189	125228.3	52.97	-4.42	237.3	344.0	22.6	0.6	LLEYN, GWYNEDD		13	1	131	0.06	0.3	0.6	B	A*B	LLEYN AFTERSHOCK
010289	070539.8	52.97	-4.41	238.2	344.0	23.5	0.7	LLEYN, GWYNEDD		16	2	98	0.09	0.4	1.1	B	A*B	LLEYN AFTERSHOCK
020789	152930.6	52.97	-4.41	238.0	343.7	22.8	0.6	LLEYN, GWYNEDD		10	2	108	0.07	0.5	1.0	B	A*B	LLEYN AFTERSHOCK
040889	085611.1	52.97	-4.41	238.2	344.4	24.2	0.7	LLEYN, GWYNEDD		10	1	113	0.06	0.6	0.8	B	A*B	LLEYN AFTERSHOCK
010389	094756.6	52.97	-4.39	239.4	344.3	21.8	1.0	LLEYN, GWYNEDD		13	2	115	0.09	0.5	0.6	B	A*B	LLEYN AFTERSHOCK
250789	184933.1	52.96	-4.40	238.7	343.4	22.6	0.9	LLEYN, GWYNEDD		13	3	94	0.07	0.4	0.8	B	A*B	LLEYN AFTERSHOCK
280789	135931.8	52.96	-4.40	238.7	342.9	24.5	1.3	LLEYN, GWYNEDD		17	3	119	0.09	0.4	0.8	B	A*B	LLEYN AFTERSHOCK
281289	203601.8	52.96	-4.40	238.6	343.5	22.4	1.3	LLEYN, GWYNEDD		20	2	181	0.11	0.5	0.8	C	A*D	LLEYN AFTERSHOCK
010389	044311.6	52.96	-4.39	239.6	343.4	24.4	1.1	LLEYN, GWYNEDD		17	3	85	0.07	0.3	0.7	A	A*A	LLEYN AFTERSHOCK
040589	140700.8	52.96	-4.39	239.5	342.7	21.1	1.0	LLEYN, GWYNEDD		15	4	176	0.15	0.8	1.5	B	A*C	LLEYN AFTERSHOCK
280789	135816.5	52.96	-4.39	239.4	342.9	24.1	2.1	LLEYN, GWYNEDD		18	3	88	0.09	0.4	0.9	A	A*A	LLEYN AFTERSHOCK
311289	071301.3	52.96	-4.38	240.4	343.1	21.9	0.7	LLEYN, GWYNEDD		15	4	161	0.10	0.5	0.9	B	A*C	LLEYN AFTERSHOCK
161089	162547.7	52.95	-4.40	239.0	342.3	23.9	1.1	LLEYN, GWYNEDD		20	4	99	0.09	0.3	0.9	B	A*B	LLEYN AFTERSHOCK
130889	180253.6	52.95	-4.39	239.2	342.2	23.8	1.6	LLEYN, GWYNEDD		20	4	97	0.07	0.2	0.6	B	A*B	LLEYN AFTERSHOCK
050689	014034.7	52.95	-3.53	296.9	340.6	16.6	0.4	BALA, GWYNEDD		10	17	231	0.07	0.6	0.6	C	A*D	
251089	004304.1	52.90	-4.49	232.4	336.8	13.7	0.7	LLEYN, GWYNEDD		13	10	156	0.07	0.5	0.5	B	A*C	
270289	085151.9	52.90	-4.48	233.4	336.7	6.4	0.1	LLEYN, GWYNEDD		9	9	148	0.20	1.7	3.6	C	B*C	
270289	074839.0	52.86	-3.35	309.0	330.2	16.6	0.3	LAKE BALA, GWYNEDD		7	19	309	0.08	1.5	1.9	C	B*D	
270289	205250.9	52.84	-4.15	255.4	329.3	15.3	-0.4	HARLECH, GWYNEDD		10	17	127	0.08	0.4	1.0	B	A*B	
310789	162556.5	52.84	-3.80	278.5	328.1	6.0	0.3	GWYNFYNYDD, GWYNEDD		7	6	115	0.08	0.6	1.4	B	A*B	
100289	123918.6	52.82	-3.64	289.3	326.1	18.7	-0.2	LAKE BALA, GWYNEDD		10	4	161	0.03	0.2	0.3	B	A*C	
270389	071623.7	52.77	-2.39	373.9	318.8	5.4	1.0	NEWPORT, SALOP		10	44	135	0.22	1.6	6.3	C	C*C	
270289	200458.8	52.77	-2.03	398.1	319.4	2.6	1.1	CANNOCK CHASE, STAFFS		6	30	171	0.10	1.1	1.8	C	B*C	
081289	231257.2	52.71	-4.72	216.0	315.7	19.1	0.9	CARDIGAN BAY		22	15	149	0.23	1.1	1.9	C	B*C	
180989	161735.9	52.71	-2.02	398.6	312.9	1.3	1.1	CANNOCK, STAFFORDSHIRE		9	36	109	0.33	2.2	4.4	C	C*C	COALFIELD TYPE
150589	194528.7	52.69	-4.00	264.7	311.8	9.8	0.6	BARMOUTH, GWYNEDD		13	2	196	0.08	0.5	0.7	C	A*D	
150589	233452.8	52.57	-1.03	466.0	298.0	2.4	1.5	OADBY, LEICESTER		6	26	228	0.17	1.2	1.2	C	B*D	
230889	102711.7	52.49	-1.10	461.4	288.3	4.3	0.4	BRUNTINGTHORPE, LEICS		6	31	246	0.34	6.5	8.7	D	D*D	
190589	153315.6	52.32	-2.82	344.0	269.4	17.7	1.1	LUDLOW, HEREFORD		9	22	161	0.24	1.4	3.9	C	B*C	
270789	115321.1	52.22	-3.07	326.9	258.8	1.1	0.0	KINGTON, HER & WORC		5	21	243	0.02	0.5	0.5	C	A*D	
270789	115329.4	52.21	-3.08	326.1	257.9	0.4	-0.1	KINGTON, HER & WORC		5	20	239	0.01	0.2	0.3	C	A*D	
270789	115358.9	52.21	-3.08	326.2	257.9	0.0	0.4	KINGTON, HER & WORC		5	20	240	0.01	0.2	0.3	C	A*D	
280789	115942.6	52.21	-3.08	326.4	258.0	0.4	0.2	KINGTON, HER & WORC		5	20	241	0.00	0.0	0.0	C	A*D	
080589	060053.5	52.20	-3.31	310.3	257.0	9.1	1.7	LL'DRINDOD WELLS, POWYS		13	14	153	0.13	1.3	3.8	C	B*C	
180389	135650.9	52.20	-3.22	316.7	257.0	2.4	1.6	GLADESTRY, POWYS		15	14	100	0.10	0.4	0.7	B	A*C	
230289	195826.3	52.19	-4.17	251.9	256.5	7.8	2.3	NEWQUAV, DYFED		30	49	82	0.31	0.8	1.5	C	C*C	
220489	094158.3	52.16	-3.59	291.2	253.0	5.6	0.6	BEULAH, POWYS		6	18	231	0.05	1.3	0.8	C	B*D	
150589	125559.7	52.11	-4.02	261.5	247.8	0.1	1.0	LAMPETER, DYFED		11	34	211	0.14	0.9	1.0	C	A*D	
291189	053318.3	52.05	-2.69	352.6	239.2	1.0	1.0	HEREFORD, HER & WORC		4	10	182	0.03	0.0	0.0	C	A*D	

CATALOGUE OF EVENTS : 1989

Listed in order of decreasing latitude

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
030589	153322.5	51.98	-3.59	290.9	233.0	16.1	1.2	BRECON,POWYS		5	24	265	0.04	1.8	0.8	C	B*D	
280989	122305.3	51.81	-3.10	324.0	213.3	23.2	1.4	ABERGAVENNY,GWENT		7	22	205	0.14	1.4	2.1	C	B*D	
080489	165408.9	51.77	-4.17	250.5	210.7	3.1	1.3	LLANELLI,DYFED		14	70	246	0.14	1.0	1.8	C	A*D	NORTH OF LLANELLI
200489	115907.4	51.74	-2.57	360.4	204.6	2.7	2.1	LYDNEY,GLOUCESTERSHIRE		11	20	232	0.46	4.1	3.6	D	C*D	
240389	004900.8	51.68	-3.26	313.2	199.2	0.0	1.5	BARGOED,MID GLAMORGAN 2+		8	31	239	0.13	1.7	1.6	C	B*D	FELT BARGOED
050489	095422.9	51.68	-3.26	313.2	199.3	0.3	0.8	BARGOED,MID GLAMORGAN		6	31	259	0.03	0.7	0.6	C	A*D	
240789	120516.3	51.50	-3.41	302.2	178.6	0.3	1.6	YSTRADOWEN,S GLAMORGAN		6	62	341	0.18	18.4	92.6	D	D*D	
191189	164737.7	51.18	-4.81	203.5	146.3	1.6	1.1	LUNDY,BRISTOL CHANNEL		8	31	287	0.01	1.2	0.9	C	B*D	
050889	050007.9	51.15	-3.38	303.7	139.4	5.0	1.3	BRIDGEWATER,SOMERSET		9	68	165	0.15	1.2	3.8	C	B*D	
090289	152642.0	50.26	-5.33	162.7	45.3	6.2	0.9	PORTREATH,CORNWALL		10	11	243	0.03	0.9	1.7	C	A*D	
090289	153141.4	50.26	-5.33	162.8	45.4	6.3	0.3	PORTREATH,CORNWALL		9	11	244	0.02	0.9	1.5	C	A*D	
180789	095021.5	50.20	-4.97	187.8	37.1	10.0	0.5	ST MAWES,CORNWALL		13	11	310	0.03	0.4	0.5	C	A*D	4 KM NE OF ST MAWES
220789	203143.7	50.12	-5.45	153.6	29.6	8.2	0.2	MARAZION,CORNWALL		7	11	186	0.06	1.3	3.8	C	B*D	
220989	211132.0	49.97	-6.14	103.4	16.2	4.6	1.8	SCILLY ISLES,CORNWALL		8	45	340	0.04	19.1	43.5	D	D*D	7 KM EAST OF ST MARTINS
300989	105250.3	49.85	-5.16	172.8	-0.6	6.6	0.5	LIZARD POINT,CORNWALL		8	22	312	0.03	0.7	0.4	C	A*D	SOUTH OF LIZARD POINT
300989	012534.2	49.78	-4.87	193.2	-8.9	4.2	0.6	LIZARD POINT,CORNWALL		7	36	348	0.18	17.1	6.0	D	D*D	SOUTH OF LIZARD POINT
300989	121700.9	49.76	-5.09	177.7	-11.4	5.6	1.4	LIZARD POINT,CORNWALL		8	33	324	0.08	21.5	47.0	D	D*D	SOUTH OF LIZARD POINT
151089	051737.4	49.75	-5.19	169.9	-11.3	7.9	0.5	LIZARD POINT,CORNWALL		7	33	350	0.05	3.6	75.6	D	C*D	SOUTH OF LIZARD POINT
300989	153340.6	49.71	-5.17	171.8	-15.7	8.4	0.5	LIZARD POINT,CORNWALL		5	37	351	0.39	43.8	55.5	D	D*D	SOUTH OF LIZARD POINT
010889	223124.5	49.58	-6.03	108.7	-28.1	5.0	0.9	SCILLY ISLES,CORNWALL		6	72	340	0.03	33.0	74.1	D	D*D	SE OF SCILLY ISLES
061189	235236.3	49.43	-5.56	141.5	-46.1	5.0	1.0	LIZARD POINT,CORNWALL		6	75	356	0.51	90.7	59.1	D	D*D	SOUTHWEST OF LIZARD POINT
110589	031914.9	49.42	-6.06	105.6	-45.5	34.5	0.9	LIZARD POINT,CORNWALL		8101	357	0.19	21.5	258.7	D	D*D	SOUTHWEST OF LIZARD POINT	
310189	093931.1	49.15	-6.15	97.6	-75.5	9.3	2.4	SCILLY ISLES,CORNWALL		12119	345	0.08	60.6	143.1	D	D*D	OFFSHORE,70KM SOUTH OF SCILLY ISLES	
310189	104341.4	49.14	-6.11	100.2	-76.3	7.9	1.7	SCILLY ISLES,CORNWALL		10119	346	0.04	7.6	3.7	D	D*D	OFFSHORE,70KM SOUTH OF SCILLY ISLES	
020589	093940.5	47.86	-7.18	12.6	-214.2	5.0	2.6	LANDS END,CORNWALL		8281	353	0.09	11.8	6.9	D	D*D	280 KM SW OF LANDS END	
210889	065246.3	47.64	-6.67	49.3	-240.6	5.0	3.9	BAY OF BISCAY		6374	359	0.31			D	D*D		
050389	191629.2	47.34	-3.57	281.6	-283.7	5.0	2.5	BAY OF BISCAY		6333	355	0.07			D	D*D		
060489	130522.8	45.07	-3.90	250.8	-534.9	5.0	3.8	BAY OF BISCAY		8562	357	0.05			D	D*D		

Table 3

CATALOGUE OF EVENTS : 1989

Poorly located events

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
070289	123940.3	56.81	-4.75	232.2	772.4	1.0	1.0	LOCH TREIG,HIGHLAND		13	74	286	0.31	8.7	6.4	D	D*D	PROBABLE QUARRY BLAST
110289	1137							HAMPSHIRE - SONIC										FELT HAMPSHIRE,DORSET & WILTSHIRE
120289	130942.9	56.40	-5.45	187.0	728.6	1.0	1.2	OBAN,STRATHCLYDE		9	73	301	0.35	14.4	10.8	D	D*D	POSSIBLE QUARRY BLAST
130289	225315.3	56.51	-5.52	183.3	740.8	1.0	1.4	LISMORE,STRATHCLYDE		9	81	305	0.56	26.0	19.4	D	D*D	POSSIBLE QUARRY BLAST
140289	1049							HAMPSHIRE - SONIC										FELT HAMPSHIRE,DORSET & WILTSHIRE
270289	180903.4	55.08	-2.09	394.3	575.8	0.0	1.7	HEXHAM,NORTHUMBERLAND		10	25	211	0.17	1.5	1.2	C	B*D	POSSIBLE QUARRY BLAST, COALFIELD LIKE
180389	144327.0	55.09	-2.03	398.1	577.7	0.4	1.9	HEXHAM,NORTHUMBERLAND		10	99	334	0.21	7.3	5.3	D	D*D	PROBABLE QUARRY BLAST
280389	143030.6	58.44	0.28	533.0	952.0	5.0	2.8	PIPER ALPHA TOPPLE		16178	163	0.36	2.14	11.7	D	C*D	PIPER ALPHA TOPPLING EXPLOSION	
200489	061830.4	51.48	1.34	631.8	180.8	5.0	2.5	MARGATE,KENT		6	92	309	0.30	16.4	15.2	D	D*D	OFFSHORE.CONFIRMED WW2 MINE DISPOSAL
300489	232136.3	56.63	-5.65	176.3	754.1	1.0	0.7	MORVERN,HIGHLAND		6	94	337	0.30	21.6	16.4	D	D*D	POOR LOCATION,NO KYLE OR MORAY DATA AVAILABLE
040589	1658							CUMBRIA - SONIC										FELT KENDAL,NEW HUTTON, BARROW,MORECAMBE...
160589	1800							LANCASHIRE - SONIC										FELT BLACKBURN,RAINFORD, CHORLEY & WIGAN
160589	1845							CUMBRIA - SONIC										FELT KIRKBY-IN-FURNESS & RAMPSIDE
230589	1230							GRAMPIAN - SONIC										NO SEISMIC RECORD.FELT STONHEHAVEN
250589	1500							CUMBRIA - SONIC										FELT ULVERSTONE,BARROW-IN-FURNESS,LONSDALE...
220689	1037							HIGHLAND - SONIC										NO SEISMIC RECORD.FELT THURSO
120789	1439							NORFOLK - SONIC										REPORTED BY RAF. FELT CROMER
180789	1842							ISLE OF MAN - SONIC										FELT ISLE OF MAN (SOUTH)
270789	0700	53.30	-2.80	350.0	375.0		0.7	WIRRAL,CHESIRE	2+									FELT WIRRAL.(MACROSEISMIC LOCATION)
310789	145107.3	56.09	-3.40	313.2	689.9	0.2	0.8	DUNFERMLINE,FIFE		10	18	168	0.16	0.8	0.8	C	B*C	POSSIBLE QUARRY BLAST
040889	1200							NORTH WALES - SONIC										FELT COLWYN BAY,PRESTATYN & RHYL
250889	134338.6	54.42	-3.05	332.2	503.0	2.0	0.4	LTL LANGDALE,CUMBRIA		12	13	73	0.15	0.5	0.8	B	A*C	POSSIBLE QUARRY BLAST
250889	134407.8	54.38	-3.03	333.2	499.3	0.0	0.1	LTL LANGDALE,CUMBRIA		5	11	241	0.00	0.1	0.1	C	A*D	POSSIBLE QUARRY BLAST
091089	2129							YORKSHIRE - SONIC										FELT WHITBY,CASTLETON, & FLYINGDALES
141089	202327.6	56.01	-3.50	306.4	680.9	4.6	0.4	BLACKNESS,CENTRAL		12	19	119	0.10	0.5	1.2	B	A*C	OFFSHORE,FIRTH OF FORTH - POSSIBLE EXPLOSION
191089	211759.7	56.01	-3.50	306.6	681.3	6.3	0.6	BLACKNESS,CENTRAL		10	19	119	0.10	0.6	1.2	B	A*C	OFFSHORE,FIRTH OF FORTH - POSSIBLE EXPLOSION
081189	031201.5	56.01	-3.50	306.6	681.2	5.8	0.8	BLACKNESS,CENTRAL		14	19	118	0.08	0.3	0.6	B	A*C	OFFSHORE,FIRTH OF FORTH - POSSIBLE EXPLOSION
291189	0927							SOUTH WALES - SONIC										FELT SWANSEA
031289	141037.9	54.25	-3.15	325.2	484.3	3.5	0.4	GRIZEBECK,CUMBRIA		5	11	163	0.11	0.3	3.3	C	B*D	POSSIBLE QUARRY
111289	1501							LANCASHIRE - SONIC										ONSET OBSCURED BY QUARRY. FELT LANCS.UNIVERSITY

Table 4 : Geographical coordinates of seismograph stations operated by BGS, DIAS and Leeds University during 1989.

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
AEA	E.ANGLIA UNIV	52.6208	1.2403	619.3	307.5	45	84-	m	BGS
AHE	HEMPNAL *	52.4730	1.3074	624.60	291.30	50	80-89	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
BUWY	BURN	53.7424	-1.0668	461.54	427.76	13	85-	1R	BGS
CBW	BUDOCK WATER	50.1482	-5.1144	177.525	32.29	98	81-	1	BGS
CCA	CARMENELLIS	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
EDR	DRUMTOCHTY	56.9184	-2.5404	367.18	780.96	388	89-	1R	BGS
EDU	DUNDEE	56.5475	-3.0142	337.65	739.95	275	69-	1R	BGS
ELO	LOGIEALMOND	56.4706	-3.7119	294.55	732.24	495	69-	1R	BGS
ESK	ESKDALEMUIR	55.3167	-3.2050	323.536	603.179	263	65-	4Rm	BGS
ESY	STONEYPATH	55.9177	-2.6144	361.603	669.569	328	81-	1R	BGS
GAL	GALLOWAY	54.8664	-4.7114	226.02	555.78	105	89-	3	BGS
GCD	CASTLE DOUGLAS	54.8638	-3.9417	275.395	553.845	189	89-	1	BGS
GCL	CUSHENDAL	55.076	-6.130	136.4	583.7	275	89-	1	BGS
GIM	N ISLE OF MAN	54.2923	-4.4670	239.458	491.345	366	89-	1	BGS
GMK	MULL OF KINTYRE	55.3459	-5.5936	172.18	611.65	160	89-	1	BGS
GMM	MTS OF MOURNE	54.239	-5.951	142.6	489.8	140	89-	1	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
HSA	SWANSEA	51.7478	-4.1543	251.3	207.7	274	87-	1	BGS
HTL	HARTLAND	50.9944	-4.4850	225.636	124.667	91	81-	4Rm	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
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

Table 4 : continued

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Yrs open	Comp	Agency
KBI	BIRLEY GRANGE	53.2546	-1.5278	431.5	373.2	270	88-	1	BGS
KEY	KEYWORTH	52.8774	-1.0751	462.24	331.54	75	88-	L	BGS
KPL	PLOCKTON	57.3391	-5.6527	180.212	833.498	36	86-	4R	BGS
KSB	SHEIL BRIDGE	57.2098	-5.4230	193.3	818.4	70	83-	1	BGS
KSK	SCOVAL	57.4653	-6.7020	118.1	851.4	250	89-	1	BGS
KSY	SYSTON	52.9642	-0.5873	494.875	341.730	123	88-	1	BGS
KTG	TILBROOK GRANGE	52.3261	-0.4007	508.98	271.03	78	88-	1	BGS
KUF	UFFORD	52.6175	-0.3895	509.02	303.45	35	88-	1	BGS
KWE	WEAVER FARM	53.0163	-1.8435	410.5	346.6	320	88-	1	BGS
LBO	BOWLAND	53.9790	-2.5728	362.44	453.83	320	89-	1	BGS
LCK	CROOK	54.3595	-2.8715	343.37	496.36	200	89-	1	BGS
LDU	LEEDS UNIV	53.8025	-1.5553	429.350	434.450	230	83-	m	BGS
LKL	KIRKBY LONSDALE	54.2185	-2.5345	365.15	480.46	396	89-	3	BGS
LLO	LONGRIDGE	53.8503	-2.5598	363.18	439.51	247	89-	3	BGS
LLY	LYTHAM ST ANNES	53.7976	-2.9069	340.27	433.88	33	89-	1	BGS
LMB	MORECAMBE B110	54.0259	-2.9058	340.67	459.28	-60	89-	1	BGS
LMI	MILLOM	54.2206	-3.3070	314.79	481.35	140	89-	3	BGS
LMU	MORECAMBE MIC	54.0250	-2.9051	340.71	459.18	5	89-	m	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-	4Rm	BGS
MCH	MICHAELCHURCH	51.9977	-2.9983	331.47	233.77	229	78-	4	BGS
MDO	DOCHFUR	57.441	-4.363	258.17	841.43	366	81-	1	BGS
MFI	FISHRIE	57.6116	-2.2953	382.36	857.97	220	88-	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	85-89	3	BGS
TBW	BRENTWOOD	51.6549	0.2911	558.4	197.8	82	89-	1	BGS
TCR	COLCHESTER	51.8349	0.9125	601.2	219.2	40	89-	1	BGS
TEB	EASTBOURNE	50.8188	0.1459	551.3	104.5	70	89-	1	BGS
TFO	FOLKESTONE	51.1136	1.1406	619.8	139.6	188	89-	1	BGS
TSA	SEVENOAKS	51.2427	0.1558	550.4	151.5	170	89-	1	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	86-	Lm	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-	3	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
WST	STWLAN	52.975	-3.989	266.45	343.85	850	86-	1	BGS
WVR	VYRNWY	52.7974	-3.6051	291.795	323.448	580	85-	1m	BGS
XAL	ALLENDALE	54.8617	-2.2147	386.218	551.910	462	83-	1R	BGS
XDE	DENT	54.5058	-3.4897	303.554	513.315	291	83-	1R	BGS
XSO	SOURHOPE	55.4925	-2.2511	384.130	622.107	495	83-	1R	BGS

Table 4 : continued

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Yrs open	Comp	Agency
YEL	YELL	60.5509	-1.0830	450.29	1185.55	200	79-	1	BGS
YLL	LLANBERIS	53.1402	-4.1704	254.842	362.568	162	84-	1	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-	1	BGS
YRH	RHIW	52.8335	-4.6289	222.930	329.500	300	84-	1R	BGS
DCN	CROGHAN	53.3439	-7.2767			150	76-	1R	DIAS
DDK	DUNSINK OBS	53.3869	-6.3392			85		1R	DIAS
DLE	LYONS ESTATE	53.2872	-6.5436			140	80-	3R	DIAS
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-	1R	LDS
HWY	HIGH HOYLAND	53.5867	-1.5973	426.65	410.11	205	83-	1R	LDS
OXWY	OXENHOPE MOOR	53.7908	-1.9798	401.33	432.74	438	83-	1R	LDS

* AHE ceased recording 24-02-89

* STJ ceased recording 23-01-89

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
L	Single low-gain vertical seismometer
R	Station coordinates registered with the International Seismological Centre, England and the National Earthquake Information Centre, USA.
m	Low-frequency microphone

KEY TO PHASE DATA ENCODING FORMAT

General description:

The format of the seismic data presented here was originally designed to allow direct entry onto a computer coding form. The system is described by Browitt (1985). 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
1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890
DyMoYr	Network	Tape	S	Loc	Event	Sec	Ccor	Dek
Reader	T	Locality						
HrMnSe:c. Grid:e./Grid:n. Dep:h M:l B:* M:b M:s Io. Lat:...N Lon:...E								
No.DM. GapRm:s.Erh:.Erz:. Q SQD Comments								
CodeCoHrMnSec1..Amp1.CP1QIUsec2..Amp2.CP2QIUamp.CPer.MtAmp.CPer.MtJetpAmodPDist								
1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890

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 :Depth of event in kilometres.
Dep:h (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:

No.DM. GapRm:s.Erh:.Erz:.Q SQD : HYP071 output, see catalogue abbreviations
Comments :Descriptive remarks about felt area and other items of interest.

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 HYP071 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.

010189	ESK+	ES 400	12.5	5.0DG	LJOHNSTONEBRIDGE,D & G	1
	202738.49	308.72/ 595.29	6.1 0.7		55.243 -3.436	2
8 17 250	0.07	0.8 1.1 C A*D				3
ESK Z	202741.82	P 0IU44.38		S 1ID		17
ESK NS	2027	IU		IU 4.6H0.11ML	1.0 200	17
ESK EW	2027	IU		IU 5.0H0.09ML	1.0 200	17
ECK Z	202742.54	P 2E 45.52		S 2ED		21
EBL Z	202749.69	P 2E 57.19		S 2E		64
EAU Z	202750.01	P 2E				67
EDI Z	202752.00	P 2E 60.83		S 2E 3.5H0.29M	0.25 200	77
EDI NS	2027	E		E 6.2H0.22ML	0.25 200	77
EDI EW	2027	E		E 5.1H0.10ML	0.25 200	77
ESY Z	202753.89	P 3E 64.50		S 3E		91
EBH Z	202757.25	P 3E 69.89		S 3E		112
EAB Z	202758.01	P 3E				120
ELO Z	202800.43	P 3E				138
	-1					
040189	KEYWORTH+	KW 035	25.0	5.0JAR	LSTOKE-ON-TRENT,STAFFS	1
	22857.27	388.59/ 345.82	4.2 1.6		53.009 -2.170	2
11 22 119	0.12	0.6 1.1 B A*C				3
KWE Z	022901.61	P 2ED04.41		S 3		22
KBI Z	022906.16	P 3E 12.68		S 3		51
KSY Z	022915.56	P 4E				106
HPK Z	022913.60	P 4E 29.04		S 3		111
HPK EW	0229				25.5H0.13ML	0.25 200 111
MCH Z	022918.20	P 4E 32.92		S 3		126
MCH NS	0229				11.5H0.19ML	0.25 200 126
MCH EW	0229				6.4H0.19ML	0.25 200 126
WVR Z	022913.93	P 3E				99
WLC Z	022914.49	P 3E 27.90		S 3		108
WLC NS	0229				6.6H0.09ML	0.25 200 108
WLC EW	0229				6.7H0.17ML	0.25 200 108
WBR Z	022916.35	P 3E				117
WFB Z	022918.42	P 3E				131
	-1					
060189	KEYWORTH+	KW 036 556	25.0	5.0JAR/NSHL	LSTOKE-ON-TRENT,STAFFS	1
	53624.93	387.68/ 346.68	3.9 1.9		53.017 -2.184	2
17 23 111	0.16	0.9 1.5 C B*C				3
KWE Z	053629.35	P 1ID32.31		S 3	7.2H0.25M	1.0 200 23
KBI Z	053633.92	P 1IU40.45		S 3		51
KSY Z	053643.15	P 3E				107
KUF Z	053646.70	P 3E				129
SBD Z	053637.32	P 2ID				73
HLM Z	053637.43	P 3E				73
HAE Z	053644.11	P 3E				112
MCH Z	053645.88	P 3E 60.71		S 2EU		126
MCH NS	0536				IU18.0H0.19ML	0.25 200 126
MCH EW	0536				E 15.6H0.19ML	0.25 200 126
HTR Z	053646.23	P 3E 61.16		S 3		128
HGH Z	053651.63	P 3E				159
WVR Z	053641.28	P 2E				99
WLC Z	053642.57	P 2E 54.46		S 3		107
WLC NS	0536				10.0H0.09ML	0.25 200 107
WLC EW	0536				12.0H0.15ML	0.25 200 107
WBR Z	053643.93	P 2E				117
WFB Z	053646.03	P 2E				131
HPK Z	053643.75	P 3E 56.63		S 3		111
HPK EW	0536				15.0H0.11ML	1.0 200 111
	-1					
060189	KEYWORTH+	KW 036	12.5	5.0JAR	LSTOKE-ON-TRENT,STAFFS	1
	53935.87	388.82/ 348.53	7.4 1.2		53.034 -2.167	2
8 22 152	0.09	0.8 1.9 B A*C				3
KWE Z	053940.02	P 3E 43.13		S 3		22
KBI Z	053944.47	P 3E				49
HLM Z	053948.50	P 3E				75
MCH Z	053956.86	P 4E 71.66		S 3		128
MCH NS	0539				3.6H0.19ML	0.25 200 128
MCH EW	0539				3.4H0.18ML	0.25 200 128
HPK Z	053955.08	P 4 67.58		S 4		109
HPK EW	0539				2.2H0.17ML	1.0 200 109
WLC Z	053953.50	P 3 66.39		S 3		108
WLC NS	0539				2.0H0.11ML	0.25 200 108
WLC EW	0539				2.3H0.20ML	0.25 200 108
WBR Z	053954.78	P 3E				118
	-1					
070189	KEYWORTH+	KW 036	25.0	5.0JAR	LLITTLEBOROUGH,GTR MAN	1
	140 9.93	396.64/ 414.57	10.0 1.2		53.627 -2.051	2
16 31 102	0.10	0.4 1.9 B A*C				3
KBI Z	014019.09	P 1ID				54
KWE Z	014021.68	P 2E				69
WBR Z	014033.37	P 3E				150
PAPBZ	014017.89	P 2EU23.68		S 3		46
PAPBNS	0140				3.6H0.07ML	1.0 195 46

PAPBEW0140				2.4HO.11ML	1.0 195	46
PAPCZ 014019.42	P 3E	26.02	S 3			55
PAPCNS0140				3.5HO.10ML	1.0 195	55
PAPCEW0140				4.5HO.14ML	1.0 195	55
PAPDZ 014020.12	P 3E					60
PAPEZ 014022.00	P 3E					73
PAPENS0140				7.0HO.11ML	0.25 200	73
PAPEEW0140				6.5HO.11ML	0.25 200	73
BMZ 014015.60	P 1IU					31
HPK Z 014018.00	P 1IU23.72		S 3			46
HPK EW0140				9.2HO.12ML	1.0 200	46
SBD Z 014028.51	P 3E					114
WLC Z 014030.99	P 3E	46.46	S 3			135
WLC NS0140				5.6HO.11ML	0.25 200	135
WLC EW0140				3.9HO.09ML	0.25 200	135
WVR Z 014032.01	P 3E					139
WPM Z 014030.68	P 3E					130
-1						
070189KEYWORTH+	KW 036		12.5	5.0JAR	LSTOKE-ON-TRENT,STAFFS	1
112330.82	388.49/ 346.45		5.5 1.4		53.015 -2.172	2
10 22 149 0.09	0.6 1.0 B A*C					3
KWE Z 112335.17	P 2ED38.06		S 3			22
KBI Z 112339.67	P 3E					51
SBD Z 112343.02	P 3E					74
MCH Z 112352.31	P 4E 66.41		S 3			126
MCH NS1123				7.4HO.18ML	0.25 200	126
MCH EW1123				7.4HO.13ML	0.25 200	126
WVR Z 112347.21	P 3E					100
WLC Z 112348.56	P 3E 60.93		S 3			108
WLC NS1123				4.9HO.10ML	0.25 200	108
WLC EW1123				5.3HO.14ML	0.25 200	108
WBR Z 112349.93	P 3E					117
WFB Z 112352.38	P 3E					131
YRH Z 112357.27	P 3E					167
-1						
070189KEYWORTH+	KW 036		25.0	5.0JAR	LSTOKE-ON-TRENT,STAFFS	1
133317.87	387.54/ 346.81		2.6 1.9		53.018 -2.186	2
14 23 111 0.21	1.0 2.4 C B*C					3
KWE Z 133322.27	P 2ED25.28		S 3			23
KBI Z 133326.87	P 2IU					51
KSY Z 133336.33	P 4E					108
BMZ 133335.41	P 4E					98
HPK Z 133336.91	P 4E 49.70		S 3			111
HPK EW1333				11.6HO.14ML	1.0 200	111
SBD Z 133330.22	P 3E					73
HLM Z 133330.13	P 4E					73
HAE Z 133337.05	P 3E					112
MCH Z 133338.87	P 3E 53.51		S 3			126
MCH NS1333				19.0HO.18ML	0.25 200	126
MCH EW1333				20.1HO.16ML	0.25 200	126
HGH Z 133344.39	P 4E					159
WVR Z 133334.40	P 3E					99
WLC Z 133335.41	P 3E 47.46		S 3			107
WLC NS1333				10.6HO.12ML	0.25 200	107
WLC EW1333				12.6HO.19ML	0.25 200	107
WBR Z 133336.98	P 3E					116
WFB Z 133339.06	P 3E					130
YRH Z 133344.38	P 3E					166
-1						
070189KEYWORTH+	KW 036		25.0	5.0JAR	LSTOKE-ON-TRENT,STAFFS	1
141637.64	387.62/ 346.30		3.3 2.1		53.014 -2.185	2
15 23 117 0.14	0.6 1.3 B A*C					3
KWE Z 141642.09	P 1ED45.06		S 3			23
KBI Z 141646.65	P 1IU53.40		S 3			52
KSY Z 141657.43	P 4E					107
BMZ 141655.15	P 4E					99
HPK Z 141656.07	P 3E 69.55		S 3			111
HLM Z 141649.94	P 3E					73
SBD Z 141650.01	P 2E					73
HAE Z 141657.29	P 4E					111
MCH Z 141658.69	P 3E 73.44		S 3			126
MCH NS1416				8.9HO.18ML	1.0 200	126
MCH EW1416				8.0HO.18ML	1.0 200	126
HGH Z 141664.40	P 4E					159
WVR Z 141654.09	P 2ED					99
WLC Z 141655.04	P 3E 67.28		S 3			107
WLC NS1416				15.4HO.11ML	0.25 200	107
WLC EW1416				16.8HO.20ML	0.25 200	107
WBR Z 141656.77	P 3E					116
WFB Z 141658.80	P 3E					130
YRH Z 141664.12	P 3E					166
HPK EW1416				15.0HO.17ML	1.0 200	111
-1						

070189	KEYWORTH+	KW 036	12.5	5.0	JAR	LSTOKE-ON-TRENT,STAFFS	1
	23 8 5.10	386.37/ 346.73	2.6	1.1		53.017 -2.203	2
	6 24 115 0.16	1.4 4.1 C B*C					3
	KWE Z 230809.71	P 3ED					24
	KBI Z 230814.23	P 2EU					52
	HPK Z 230823.96	P 3E 37.08	S 3				111
	HPK EW2308				11.3H0.12ML	0.25 200	111
	MCH Z 230828.09	P 4E 40.96	S 3				126
	MCH NS2308				3.6H0.17ML	0.25 200	126
	MCH EW2308				3.3H0.16ML	0.25 200	126
	WLC Z 230823.50	P 4 35.46	S 3				106
	WLC NS2308				2.4H0.09ML	0.25 200	106
	WLC EW2308				1.8H0.13ML	0.25 200	106
	-1						
080189	KEYWORTH+	KW 036	12.5	5.0	JAR	LSTOKE-ON-TRENT,STAFFS	1
	24852.92	391.32/ 345.56	9.8	1.2		53.007 -2.129	2
	6 19 121 0.05	0.4 0.6 B A*B					3
	KWE Z 024856.82	P 3E					19
	KBI Z 024861.29	P 3E					49
	HPK Z 024871.86	P 4E 84.16	S 3				111
	HPK EW0248				10.5H0.14ML	0.25 200	111
	MCH Z 024874.83	P 4 88.11	S 3				127
	MCH NS0248				3.7H0.18ML	0.25 200	127
	MCH EW0248				3.5H0.17ML	0.25 200	127
	WLC Z 024871.92	P 4 84.14	S 3				111
	WLC NS0248				2.6H0.09ML	0.25 200	111
	WLC EW0248				2.5H0.13ML	0.25 200	111
	WFB Z 024874.11	P 3E					134
	-1						
080189	KEYWORTH+	KW 036	12.5	5.0	JAR	LSTOKE-ON-TRENT,STAFFS	1
	102455.92	386.84/ 347.53	2.5	0.8		53.025 -2.196	2
	4 24 152 0.01	0.0 0.0 C A*D					3
	KWE Z 102500.40	P 3E					24
	KBI Z 102505.13	P 3E					52
	MCH Z 102517.40	P 4 31.93	S 3				127
	MCH NS1025				3.5H0.10ML	0.25 200	127
	MCH EW1025				3.1H0.13ML	0.25 200	127
	WLC Z 102514.72	P 4 26.50	S				106
	WLC NS1025				1.4H0.09ML	0.25 200	106
	WLC EW1025				1.2H0.13ML	0.25 200	106
	-1						
080189	KEYWORTH+	KW 036	12.5	5.0	JAR	LSTOKE-ON-TRENT,STAFFS	1
	102628.06	386.39/ 348.32	2.3	1.1		53.032 -2.203	2
	6 24 153 0.17	0.7 0.9 C B*C					3
	KWE Z 102632.65	P 3ED35.80	S 3				24
	KBI Z 102637.42	P 3EU					52
	MCH Z 102650.75	P 4 64.15	S 3				127
	MCH NS1026				6.1H0.12ML	0.25 200	127
	MCH EW1026				5.8H0.12ML	0.25 200	127
	WLC Z 102646.20	P 4 58.50	S 3				106
	WLC NS1026				3.2H0.09ML	0.25 200	106
	WLC EW1026				3.1H0.12ML	0.25 200	106
	WFB Z 102649.72	P 3E					129
	-1						
100189	LOWNET	LN 625 2046	12.5	5.0	DWR	LBLAIRHALL,FIFE	1
	124738.73	298.29/ 691.83	0.5	1.0		56.108 -3.636	2
	10 17 122 0.16	0.6 0.8 C B*C COALFIELD TYPE					3
	EBH Z 124742.32	P 2E 45.50	S 2E				18
	EAU Z 124744.75	P 2E 49.52	S 2EU				32
	EDI Z 124745.58	P 3E 50.40	S 2E	4.4 0.29M	0.25 200	35	
	EDI NS1247	E		EU 7.3H0.40ML	0.25 200	35	
	EDI EW1247	E		E 4.9H0.40ML	0.25 200	35	
	ELO Z 124746.23	P 2E 52.12	S 3E			41	
	EAB Z 124747.72	P 3E 53.30	S 3E			45	
	-1						
100189	LOWNET	LN 625	25.0	5.0	DWR	LLEN EAGLES,TAYSIDE	1
	231252.42	292.97/ 708.16	6.9	1.4		56.254 -3.728	2
	13 14 103 0.18	0.7 1.2 B B*B					3
	EBH Z 231255.28	P 0IU57.22	S 1IU		1.0 200	14	
	ELO Z 231257.15	P 0IU60.30	S 2EU			24	
	EAB Z 231259.43	P 0IU63.91	S 2EU			39	
	EAU Z 231301.00	P 1IU				49	
	EDI Z 231301.21	P 2EU07.10	S 2E	3.5H0.08M	1.0 200	50	
	EDI NS2313	E		ED 7.0H0.09ML	1.0 200	50	
	EDI EW2313	E		E 4.3H0.09ML	1.0 200	50	
	EDU Z 231301.74	P 2EU08.89	S 3EU			55	
	EBL Z 231303.99	P 3E				68	
	ESY Z 231305.81	P 3E				79	
	ESK Z 231311.59	P 4E 24.23	S 2ED			109	
	ESK NS2313	E		E 3.6H0.12ML	1.0 200	109	
	ESK EW2313	E		E 3.5H0.10ML	1.0 200	109	
	ECK Z 231313.78	P 2EU28.20	S 3E			125	
	MCD Z 231317.70	P 1EU33.81	S 3E				

MCD NS2313				05.3H0.10ML		01.0	200	
MCD EW2313				09.0H0.11ML		01.0	200	
MDO Z 231316.09		P 1E 31.10		S 3E				
MME Z 231313.20		P 2E						
-1								
100189 LOWNET+	LN 625	2204	12.5	5.0DWR	LROSEWELL,LOTHIAN			1
234813.52	329.12/	662.64	1.4	1.6	55.852	-3.132		2
19 1 72 0.09	0.3	0.1	A A*A COALFIELD TYPE					3
EDI Z 234815.62		P 1IU17.19		S 2E 11.3H0.30M		1.0	200	9
EDI NS2348		IU		E 6.7H0.60ML		1.0	200	9
EDI EW2348		ID		EU 9.6H0.20ML		1.0	200	9
EBL Z 234815.91		P 1ID17.56		S 3E				10
EAU Z 234817.68		P 2ED20.89		S 3E				20
ESY Z 234819.83		P 2E 24.43		S 3E				33
EBH Z 234822.60		P 2E 29.30		S 3E				50
EDU Z 234827.42		P 3E						78
RGH Z 234813.91		P 0ID						1
RHC Z 234813.94		P 0ID						1
RCA Z 234813.98		P 0ID14.36		S 2				2
RCA NS2348				ID10.5H0.12ML		2.5	4	2
RCA EW2348				ED 7.5H0.10ML		2.5	4	2
RCH Z 234814.03		P 0ID14.45		S 2				2
RCH NS				ID				2
RCH EW				ED				2
RRD Z 234814.04		P 0ID						1
RMM Z 234814.21		P 0ID						2
-1								
110189KEYWORTH+	KW 036		12.5	5.0JAR	LRETTFORD,NOTTS			1
25130.71	471.52/	382.16	1.0	1.8	53.331	-0.926		2
7 41 252 0.07	3.0	1.5	D C*D COALFIELD TYPE					3
KBI Z 025138.33		P 3E						41
KSY Z 025139.37		P 3E						47
KWE Z 025143.10		P 3E						71
SBD Z 025157.25		P 3E 76.56		S 3				163
MCH Z 025162.50		P 4 85.60		S 3				204
MCH NS0251				2.6H0.35ML		0.25	200	204
MCH EW0251				3.2H0.26ML		0.25	200	204
WLC Z 025161.20		P 4 83.15		S 3				194
WLC NS0251				2.5H0.36ML		0.25	200	194
WLC EW0251				2.5H0.28ML		0.25	200	194
-1								
120189 LOWNET	LN 626	281	12.5	5.0DWR	LLAUDER,BORDERS			1
22552.79	348.15/	653.94	2.0	-0.2	55.776	-2.827		2
8 14 229 0.13	1.7	1.5	C B*D					3
EBL Z 022555.63		P 0ID57.75		S 2E				14
ESY Z 022556.89		P 0IU59.72		S 2E				21
EDI Z 022558.55		P 3E 62.00		S 2E 1.8H0.10ML		0.25	200	28
EDI NS0225		E 62.00		S E 4.6H0.09ML		0.25	200	28
EDI EW0225		E		E 3.2H0.10ML		0.25	200	28
EAU Z 022559.71		P 2EU64.77		S 3E				40
-1								
120189KEYWORTH+	KW 037		12.5	5.0JAR	LSTOKE-ON-TRENT,STAFFS			1
64352.53	392.30/	346.44	12.6	1.3	53.015	-2.115		2
9 18 147 0.06	0.7	1.1	B A*C					3
KWE Z 064356.38		P 3E 59.32		S 3				18
KBI Z 064360.82		P 3E						48
MCH Z 064374.60		P 4E 87.73		S 3				128
MCH NS0643				8.0H0.12ML		0.25	200	128
MCH EW0643				6.5H0.14ML		0.25	200	128
WLC Z 064370.50		P 3E 83.70		S 3				112
WLC NS0643				3.5H0.11ML		0.25	200	112
WLC EW0643				3.8H0.13ML		0.25	200	112
WBR Z 064371.99		P 3E						121
WFB Z 064373.34		P 3E						135
YRH Z 064378.43		P 3E						170
-1								
170189 LOWNET	LN 626	1936	12.5	5.0DWR	LGLLEN EAGLES,TAYSIDE			1
23247.65	292.42/	707.30	4.8	0.5	56.246	-3.736		2
11 14 103 0.11	0.4	0.9	B A*C					3
EBH Z 023250.60		P 0IU52.49		S 2EU				14
ELO Z 023252.49		P 0IU55.71		S 2EU				25
EAB Z 023254.65		P 3E 59.49		S 2EU				38
EAU Z 023256.31		P 2EU						48
EDI Z 023256.89		P 3E 62.68		S 2E 1.5 0.09M		0.25	200	50
EDI NS0232		E		E 2.2H0.14ML		0.25	200	50
EDI EW0232		E 62.68		S E 2.2H0.18ML		0.25	200	50
EDU Z 023257.40		P 3E 64.30		S 2E				56
-1								
170189 LOWNET+	LN 626		25.0	5.0JAR/DWRL	LROSEWELL,LOTHIAN			1
62330.74	328.88/	662.70	1.1	1.4	55.852	-3.136		2
22 1 77 0.08	0.2	0.1	A A*A COALFIELD TYPE					3
RGH Z 062331.07		P 0ID						1
RHC Z 062331.11		P 0ID						1

RCA Z 062331.13	P 01D31.41	S 1				1
RCH Z 062331.19	P 01D31.56	S 1				1
RRD Z 062331.23	P 1IU					1
RMM Z 062331.37	P 01D					2
EDI Z 062332.80	P 0IU34.40	S 3E	13.4H0.31M	2.5	200	9
EDI NS0623	IU34.40	S	ED 7.7H0.80ML	2.5	200	9
EDI EW0623	ID		ED 6.7H0.60ML	2.5	200	9
EBL Z 062333.13	P 01D34.60	S 3ED				11
EAU Z 062334.90	P 0IU37.80	S 3E				20
ESY Z 062337.17	P 2ED41.78	S 3E				34
EBH Z 062339.91	P 2ED46.77	S 3EU				50
EDU Z 062344.42	P 3E					78
ELO Z 062344.51	P 3E					78
EAB Z 062345.32	P 3E 55.91	S 3E				84
-1						
180189 ESK	ES 402	12.5	5.0DG	LJOHNSTONEBRIDGE,D & G		1
	15936.06 311.23/ 594.24	1.4-0.5		55.234 -3.396		2
4 15 304 0.01	0.0 0.0 C A*D					3
ESK Z 015939.30	P 0IU41.67	S 2ED				15
ESK NS0159	IU	E	4.5H0.09ML	0.25	200	15
ESK EW0159	IU	ED	3.0H0.10ML	0.25	200	15
ECK Z 015939.80	P 3E 42.52	S 1ED				18
-1						
180189N WALES			5.0RITCHIELLLANRWST,GWYNEDD			1
	1716 5.91 284.14/ 362.93	15.4 0.5		53.151 -3.733		2
8 18 306 0.09	1.4 1.3 C B*D					3
WLC Z 17169.8	P 1I 12.4	S 1				18
WLC NS1716			10.4H0.06ML	1.0	200	18
WLC EW1716			8.5 H0.10ML	1.0	200	18
WVR Z 171613.05	P 2E 17.91	S 3				40
WBR Z 171612.15	P 2E 16.09	S 3				35
WST Z 171610.87	P 1IU14.45	S 2				26
-1						
190189 ESK	ES 403	12.5	5.0DG	LCASTLE DOUGLAS,D & G		1
	191048.86 279.84/ 570.31	1.1 0.7		55.013 -3.879		2
4 52 343 0.08	0.0 0.0 C A*D					3
ECK Z 191058.24	P 1IU65.26	S 2EU				52
ESK Z 191058.89	P 1IU65.93	S 3E				55
ESK NS1910	E	ED	6.4H0.09ML	0.25	200	55
ESK EW1910	ID	E	5.3H0.07ML	0.25	200	55
-1						
200189KEYWORTH+	KW 038	12.5	5.0JAR	LCHESTERFIELD,DERBS		1
	154724.72 439.53/ 371.43	0.2 1.6		53.238 -1.408		2
10 8 129 0.71	3.4 4.3 C D*B POSSIBLE COALFIELD TYPE					3
KBI Z 154725.28	P 3E					8
KWE Z 154732.69	P 3E					38
KSY Z 154735.72	P 3E					63
SBD Z 154746.67	P 3E					129
MCH Z 154754.50	P 3E 74.12	S 3E				175
MCH NS1547			5.9H0.28ML	0.25	200	175
MCH EW1547			4.6H0.19ML	0.25	200	175
HPK Z 154739.27	P 3E					81
WVR Z 154749.19	P 3E					156
WLC Z 154749.88	P 3E					161
WLC NS1547			3.1H0.17ML	0.25	200	161
WLC EW1547			2.3H0.17ML	0.25	200	161
WBR Z 154751.86	P 3E					172
-1						
230189 ESK	ES 403	12.5	5.0DG	LJOHNSTONEBRIDGE,D & G		1
	112328.36 312.42/ 594.62	0.5-0.1		55.238 -3.377		2
4 14 300 0.01	0.0 0.0 C A*D					3
ESK Z 112331.57	P 0IU33.92	S 2ED				14
ESK NS1123	IU	E	11.0H0.10ML	0.25	200	14
ESK EW1123	IU	ED	8.7H0.11ML	0.25	200	14
ECK Z 112332.10	P 2ED34.82	S 1ID				17
-1						
260189KEYWORTH+	KW 039	12.5	5.0JAR	LOXTON,NOTTS		1
	353 9.71 464.32/ 350.78	0.1 1.9		53.050 -1.040		2
6 32 162 0.16	1.2 1.5 C B*C COALFIELD TYPE					3
KSY Z 035316.02	P 3EU					32
KBI Z 035317.32	P 2ED					40
KWE Z 035319.50	P 3ED26.81	S 4				54
MCH Z 0353	59.63	S 3				177
MCH NS0353			5.2H0.28ML	0.25	200	177
MCH EW0353			3.9H0.29ML	0.25	200	177
WVR Z 0353	59.85	S 3				175
WLC Z 0353	61.89	S 3				184
WLC NS0353			5.0H0.33ML	0.25	200	184
WLC EW0353			3.8H0.52ML	0.25	200	184
-1						
270189 PAISLEY+		12.5	5.0DG	LGREENOCK,STRATHCLYDE		1
	224243.85 226.85/ 676.89	0.9 0.3		55.954 -4.774		2
6 12 235 0.18	0.3 0.3 C B*D					3

PMS Z 224246.48	P 1ID48.96	S 1ID		12
PGB Z 224248.52	P 2E 52.41	S 1E		25
PGB NS2242	E	IU10.5H0.08ML	0.25 200	25
PGB EW2242	E	EU 5.1H0.13ML	0.25 200	25
EAB Z 224250.90	P 2E 56.45	S 3E 5.0H0.19ML	0.25 200	38
-1				
310189 CORNWALL		5.0	LSCILLY ISLES, CORNWALL	1
93931.10	97.58/ -75.48	9.3 2.4	49.146 -6.148	2
12119 345 0.08	60.6143.1 D D*D OFFSHORE, 70KM SOUTH OF		SCILLY ISLES	3
CPZ Z 093950.41	P 1 U			120
CGH Z 093951.25	P 1 U			123
CCO Z 093951.91	P 1 U			130
CCA Z 093952.30	P 1 U			133
CR2 Z 093952.37	P 1 U68.01	S 2		134
CR2 NS0939		3.5 H0.05ML	10.0 200	134
CR2 EW0939		4.0 H0.05ML	10.0 200	134
CBW Z 093952.47	P 1 U			134
CST Z 093952.75	P 1 U			137
CTR Z 093952.40	P 1 U68.11	S 2		134
CME Z 093952.36	P 1 U			134
CRA Z 093952.27	P 1EU			133
-1				
310189 CORNWALL		5.0	LSCILLY ISLES, CORNWALL	1
104341.49	100.19/ -76.33	7.9 1.7	49.140 -6.111	2
10119 346 0.04	7.6 3.7 D D*D OFFSHORE, 70KM SOUTH OF		SCILLY ISLES	3
CPZ Z 104400.83	P 1EU			119
CGH Z 104401.80	P 2			122
CCO Z 104402.34	P 1			129
CCA Z 104402.70	P 1			133
CR2 Z 104402.80	P 2 18.40	S 2		133
CR2 NS1044		7.6 H0.05ML	1.0 200	133
CR2 EW1044		7.3 H0.05ML	1.0 200	133
CBW Z 104402.95	P 2			133
CST Z 104403.13	P 1			136
CME Z 104402.85	P 1 18.35	S 2		133
CRA Z 104402.62	P 1			132
-1				
010289N WALES		5.0	RITCHIELLEYN, GWYNEDD	1
7 539.86	238.23/ 343.98	23.5 0.7	52.968 -4.409	2
16 2 98 0.09	0.4 1.1 B A*B LLEYN AFTERSHOCK			3
WLC Z 070547.75	P 2E 53.12	S 2		42
WLC NS0705		9.1 H0.1 ML	0.25 200	42
WLC EW0705		11.2H0.08ML	0.25 200	42
YRH Z 070544.98	P 1IU			21
WBR Z 070546.96	P 2E 51.65	S 2		37
WST Z 070545.80	P 1IU50.00	S 2		28
WFB Z 070547.32	P 3E 52.29	S 3		40
YRC Z 070545.99	P 2E 51.06	S 2		33
YRE Z 070543.62	P 1IU			2
WLF Z 070546.70	P 3E 51.38	S 2		36
YLL Z 070545.40	P 1IU48.84	S 3		25
-1				
010289 ESK	ES 404	12.5	5.0DG LLANGHOLM, D & G	1
162715.68	339.21/ 590.52	4.3 0.2	55.205 -2.955	2
5 11 202 0.09	0.0 0.1 C A*D			3
ECK Z 162718.18	P 0IU19.70	S 1ID		11
ESK Z 162719.71	P 0ID22.34	S 1IU		20
ESK NS1627	ID	ID17.5H0.10ML	0.25 200	20
ESK EW1627	ID	ID13.0H0.10ML	0.25 200	20
XSO Z 162725.20	P 3E			55
-1				
040289KEYWORTH+	KW 040	12.5	5.0JAR LRETFORD, NOTTS	1
02817.10	473.93/ 380.50	0.7 2.2	53.316 -0.890	2
9 43 252 0.36	7.2 3.6 D D*D EAST OF RETFORD, COALFIELD TYPE			3
KBI Z 002824.58	P 3E			43
KSY Z 002825.36	P 3E			44
KWE Z 002828.98	P 3E			72
HAE Z 002846.41	P 3E			181
MCH Z 002849.23	P 3E 72.90	S 3E		205
MCH NS0028		7.5H0.37ML	0.25 200	205
MCH EW0028		5.6H0.34ML	0.25 200	205
WBR Z 002850.11	P 3E			208
WLC Z 002848.30	P 3E 70.98	S 3E		196
WLC NS0028		6.1H0.40ML	0.25 200	196
WLC EW0028		5.3H0.38ML	0.25 200	196
-1				
040289KEYWORTH+	KW 040	12.5	5.0JAR LCASTLETON, DERBYSHIRE	1
1151 9.26	415.55/ 382.08	2.8 1.8	53.335 -1.766	2
16 18 110 0.31	0.6 1.5 C C*C			3
KBI Z 115112.61	P 3EU15.4	S 3E		18
KWE Z 115115.21	P 2ED20.25	S 3E		36
KSY Z 115124.62	P 3E			89
HAE Z 115134.43	P 3E			154

MCH Z 115136.82	P 3E 56.51	S 3E				171
MCH NS1151			6.0H0.40ML		0.25 200	171
MCH EW1151			4.5H0.32ML		0.25 200	171
HTR Z 115137.39	P 3E					173
BMV Z 115119.36	P 3E					60
HPK Z 115121.34	P 3E					70
WVR Z 115131.70	P 3E					137
WLC Z 115132.11	P 3E 49.02	S 3E				140
WLC NS1151			5.1H0.35ML		0.25 200	140
WLC EW1151			2.1H0.32ML		0.25 200	140
WBR Z 115134.18	P 3E					152
WFB Z 115136.28	P 3E					169
-1						
080289KEYWORTH+	KW 041	12.5	5.0JAR	LSTOKE-ON-TRENT,STAFFS		1
221452.57	389.93/ 347.02	9.0 1.4		53.020 -2.150		2
7 21 149 0.14	1.6 3.4 C B*C					3
KWE Z 221456.63	P 3E 59.62	S 3				21
KBI Z 221461.03	P 3E					49
MCH Z 2214	87.94	S 3				128
MCH NS2214			8.6H0.18ML		0.25 200	128
MCH EW2214			6.2H0.18ML		0.25 200	128
WVR Z 221469.13	P 3					101
WLC Z 221470.42	P 4 82.26	S 3				109
WLC NS2214			4.3H0.12ML		0.25 200	109
WLC EW2214			4.1H0.17ML		0.25 200	109
WBR Z 221472.09	P 3					119
-1						
090289 CORNWALL			5.0ABW	PORTREATH,CORNWALL		1
152642.02	162.75/ 45.30	6.2 0.9		50.259 -5.329		2
10 11 243 0.03	0.9 1.7 C A*D					3
CCA Z 152644.24	P 0ID					11
CST Z 152644.58	P 0ID					14
CR2 Z 152644.91	P 0ID47.07	S 1				15
CR2 NS1526			4.7 H0.04ML		10.0 200	15
CR2 EW1526			4.8 H0.05ML		10.0 200	15
CBW Z 152645.60	P 0ID					20
CPZ Z 152645.91	P 0IU					22
CGH Z 152646.96	P 4ID					26
CSA Z 152647.30	P 4IU					33
CME Z 152644.65	P 0ID					14
CTR Z 152644.96	P 0ID47.24	S 1				16
CRA Z 152644.78	P 0ID					14
-1						
090289 CORNWALL			5.0ABW	PORTREATH,CORNWALL		1
153141.44	162.76/ 45.42	6.3 0.3		50.260 -5.329		2
9 11 244 0.02	0.9 1.5 C A*D					3
CCA Z 153143.70	P 0ID					11
CST Z 153144.03	P 0ID					14
CR2 Z 153144.36	P 0ID46.57	S 1				16
CR2 NS1531			5.5 H0.04ML		2.5 200	16
CR2 EW1531			6.2 H0.04ML		2.5 200	16
CBW Z 153145.05	P 0ID					20
CPZ Z 153145.35	P 0IU					22
CSA Z 153145.00	P 4					33
CGH Z 153145.00	P 4					26
CME Z 153144.07	P 1ID46.05	S 1				14
CRA Z 153144.21	P 1ID					14
-1						
100289N WALES			5.0RITCHIE LAKE BALA,GWYNEDD			1
123918.66	289.33/ 326.09	18.7-0.2		52.821 -3.642		2
10 4 161 0.03	0.2 0.3 B A*C					3
WLC Z 123923.35	P 1ID26.48	S 2				22
WLC NS1239			5.0 H0.09ML		0.25 200	22
WLC EW1239			4.1 H0.14ML		0.25 200	22
WVR Z 123921.80	P 2E 23.91	S 3				4
WBR Z 123922.82	P 2E 25.77	S 1				17
WST Z 123924.29	P 3E 28.16	S 2				29
WFB Z 123924.56	P 1IU28.48	S 2				31
-1						
100289 ESK	ES 406	12.5	5.0DG	LAMBLESIDE,CUMBRIA		1
15 650.00	337.29/ 501.26	5.8 1.3		54.403 -2.966		2
8 36 245 0.17	3.6 11.7 D C*D					3
XDE Z 150656.50	P 1ED					36
XAL Z 150701.58	P 2E					71
ECK Z 150704.44	P 2E 14.69	S 3				87
ESK Z 150707.23	P 2EU19.11	S 3				103
ESK NS1507			6.0 0.15 ML		0.25 200	103
ESK EW1507			4.9 0.17 ML		0.25 200	103
XSO Z 150711.50	P 2E 27.33	S 3				130
-1						
100289KEYWORTH+	KW 041	12.5	5.0JAR	LWETHERBY,W YORKSHIRE		1
184145.70	444.79/ 446.73	9.8 1.2		53.915 -1.318		2
11 21 216 0.32	2.5 3.4 D C*D					3

KBI Z 184158.12	P 3E 67.40	S 3				75
KWE Z 184163.45	P 3E 75.28	S 3				106
KSY Z 184164.30	P 3E					116
MCH Z 1841	4 106.00	S 3				241
MCH NS1841				2.2H0.09ML	0.25 200	241
MCH EW1841				1.5H0.10ML	0.25 200	241
WLC Z 184175.50	P 3E					193
WLC NS1841				1.9H0.10ML	0.25 200	193
WLC EW1841				1.4H0.16ML	0.25 200	193
HPK Z 184149.56	P 0IU53.60	S 3				21
HPK NS1841				10.0H0.12ML	2.5 200	21
HPK EW1841				9.6H0.10ML	2.5 200	21
BUR Z 184150.67	P 2EU					25
BMV Z 184151.63	P 1IU					33
-1						
170289 LOWNET	LN 632 643	12.5	5.0DWR	LLEN EAGLES,TAYSIDE		1
	856 5.67 292.59/ 707.82	3.0 1.1		56.251 -3.734		2
11 14 104 0.20	0.8 3.4 C B*C					3
EBH Z 085608.60	P 0IU10.00	S 3E				14
ELO Z 085610.49	P 1IU13.45	S 2E				25
EAB Z 085612.75	P 2E 17.49	S 2E				38
EAU Z 085614.40	P 2E					49
EDI Z 085614.56	P 3E 20.00	S 3E	7.3H0.15M		0.25 200	50
EDI NS0856	E		E 10.8H0.11ML		0.25 200	50
EDI EW0856	E		E 7.5H0.22ML		0.25 200	50
EDU Z 085615.45	P 3E 22.26	S 3E				55
-1						
180289 KYLE			5.0	LOCH MONAR,HIGHLAND		1
	643 7.77 211.30/ 842.30	2.4 0.9		57.432 -5.144		2
7 12 265 0.24	2.1 1.7 C B*D					3
KPL Z 064314.06	P 1EU 18.39	S 2E				32
KPL NS0643			04.5H0.16ML	1.0 200		32
KPL EW0643			03.5H0.14ML	1.0 200		32
KAR Z 064320.10	P 1E					71
KSB Z 064313.12	P 2ED 16.90	S 1				30
KAC Z 064310.36	P 1IU 11.94	S 1				12
KSK Z 064320.26	P 3E					94
-1						
230289N WALES+			5.0RITCHIE NEWQUAY,DYFED			1
	195826.34 251.90/ 256.54	7.8 2.3		52.187 -4.167		2
30 49 82 0.31	0.8 1.5 C C*C					3
WLC Z 195841.5	P 1IU52.44	S 2				94
YRH Z 195839.7	P 1ID48.98	S 3				79
WBR Z 195838.85	P 1IU48.13	S 3				77
WST Z 195840.86	P 2E 51.25	S 2				89
WFB Z 195835.80	P 1IU42.69	S 2				56
WCB Z 195848.22	P 3E 63.60	S 2				135
WCB NS1958			10.0H0.14ML	1.0 200		135
WCB EW1958			14.4H0.12ML	1.0 200		135
ECB Z 195853.4	P 3E 73.8	S 3				180
YRE Z 195841.56	P 2ID52.12	S 2				90
WLF Z 195846.61	P 1IU60.00	S 3				124
MCH Z 195840.11	P 1ID49.70	S 2				83
MCH NS1958			7.7 H0.17ML	2.5 200		83
MCH EW1958			7.2 H0.12ML	2.5 200		83
HAE Z 195844.81	P 3E					112
HGH Z 195844.86	P 2E					112
HTR Z 195837.06	P 2E					63
ETA Z 195850.2	P 1IU67.6	S 2				150
ECP Z 195850.0	P 2E 67.2	S 2				151
DMU Z 195904.8	P 2E					265
HTL Z 195848.8	P 3E					135
HSA Z 195834.55	P 3E					49
-1						
270289N WALES			5.0RITCHIELLAKE BALA,GWYNEDD			1
	74839.05 309.04/ 330.19	16.6 0.3		52.861 -3.351		2
7 19 309 0.08	1.5 1.9 C B*D					3
WLC Z 074844.95	P 2 49.05	S 2				32
WLC NS0748			11.0H0.06ML	0.25 200		32
WLC EW0748			7.2 H0.06ML	0.25 200		32
WVR Z 074843.22	P 1IU45.80	S 4				19
WBR Z 074845.60	P 2E 50.15	S 2				37
WST Z 074847.0	P 1IU					45
WFB Z 074847.66	P 1IU					50
-1						
270289N WALES			5.0RITCHIE LLEYN,GWYNEDD			1
	85151.94 233.41/ 336.75	6.4 0.1		52.902 -4.477		2
9 9 148 0.20	1.7 3.6 C B*C					3
WLC Z 085160.05	P 2E 65.29	S 3				48
WLC NS0851			4.5 H0.06ML	0.25 200		48
WLC EW0851			2.1 H0.05ML	0.25 200		48
YRH Z 085154.50	P 1IU55.7	S 2				13
WST Z 085157.71	P 1ID					34

YRE Z 085154.1	P 1ID55.13	S 2			10
WFB Z 085158.4	P 2E 63.4	S 3			38
-1					
270289KEYWORTH+	KW 043	12.5	5.0JAR	LCANNOCK CHASE,STAFFS	1
20 458.88	398.14/ 319.35	2.6 1.1		52.771 -2.028	2
6 30 171 0.10	1.1 1.8 C B*C				3
KWE Z 200504.39	P 3EU				30
KBI Z 200509.94	P 3E				63
MCH Z 200516.78	P 3E 28.61	S 4E			109
MCH NS2005			4.6H0.12ML	0.25 200	109
MCH EW2005			4.0H0.15ML	0.25 200	109
HGH Z 200521.42	P 3E				137
WLC Z 200519.30	P 3E 33.12	S 3E			121
WLC NS2005			2.3H0.13ML	0.25 200	121
WLC EW2005			2.5H0.16ML	0.25 200	121
-1					
270289N WALES			5.0RITCHIE HARLECH,GWYNEDD		1
205250.97	255.35/ 329.30	15.3-0.4		52.841 -4.148	2
10 17 127 0.08	0.4 1.0 B A*B				3
WLC Z 205256.49	P 3E 60.20	S 3			30
WLC NS2052			2.1 H0.06ML	0.25 200	30
WLC EW2052			2.2 H0.08ML	0.25 200	30
WVR Z 205257.50	P 3E				37
WST Z 205254.98	P 1ID57.56	S 1			18
WFB Z 205255.02	P 1IU57.75	S 3			19
YRH Z 205256.91	P 2E				33
WBR Z 205255.0	P 3E 57.52	S 3			17
-1					
280289MORAY+			5.0BS	ULLAPOOL,HIGHLAND	1
133831.54	215.53/ 891.30	3.0 2.2		2+ 57.873 -5.111	2
16 43 181 0.29	1.4 2.2 C B*D FELT RHUE				3
MVH Z 133840.89	P 1IU				55
MDO Z 133843.34	P 1IU51.40	S 3E			66
MLA Z 133849.90	P 1IU				114
MCD Z 133851.00	P 1EU64.80	S 3E			115
MCD NS1338			07.5H0.12ML	02.5 200	115
MCD EW1338			08.5H0.10ML	02.5 200	115
MFI Z 133859.52	P 2ED				170
MME Z 133854.70	P 1EU72.00	S 3E			143
KAC Z 133839.34	P 1ID45.01	S 2E			43
KPL Z 133842.96	P 1ED51.67	S 2E			68
KPL NS1338			09.0H0.17ML	01.0 200	68
KSK Z 133849.40	P 2E 62.44	S 2E			105
KAR Z 133850.48	P 1E				115
KPL EW1338			10.0H0.18ML	01.0 200	68
-1					
010389N WALES			5.0RITCHIELLLEYN,GWYNEDD		1
44311.64	239.60/ 343.35	24.4 1.1		52.963 -4.388	2
17 3 85 0.07	0.3 0.7 A A*A LLEYN AFTERSHOCK				3
WCB Z 044320.1	P 3E 26.07	S 3			47
WCB NS0443			7.5 H0.05ML	0.25 200	47
WCB EW0443			7.6 H0.20ML	0.25 200	47
YRC Z 044318.43	P 1ID23.20	S 2			34
YRE Z 044315.56	P 1ID				3
WPM Z 044320.03	P 1IU				46
WLF Z 044318.72	P 2E 23.4	S 2			36
YLL Z 044317.14	P 1IU20.16	S 3			25
WLC Z 044319.44	P 1IU24.7	S 2			41
WLC NS0443			11.0H0.16ML	1.0 200	41
WLC EW0443			8.10H0.12ML	1.0 200	41
YRH Z 044316.93	P 1IU				22
WBR Z 044318.59	P 2E 23.12	S 3			35
WST Z 044317.5	P 1IU21.59	S 2			27
WFB Z 044319.0	P 3E				39
-1					
010389N WALES			5.0RITCHIELLLEYN,GWYNEDD		1
94756.60	239.42/ 344.30	21.8 1.0		52.972 -4.392	2
13 2 115 0.09	0.5 0.6 B A*B LLEYN AFTERSHOCK				3
WLC Z 09484.1	P 1IU9.4	S 2			41
WLC NS0948			13.9H0.15ML	0.25 200	41
WLC EW0948			12.9H0.10ML	0.25 200	41
YRH Z 09481.63	P 1IU5.22	S 2			22
WBR Z 09483.28	P 2E 7.90	S 2			36
WST Z 09482.22	P 1ID6.22	S 2			27
YRC Z 09483.11	P 2E				33
YRE Z 09480.20	P 1I 2.42	S 2			3
YLL Z 09481.83	P 1IU5.42	S 3			24
-1					
010389 LOWNET+	LN 634	16	12.5	5.0DWR	LSTRATHBLANE,S'CLYDE
101937.96	250.71/ 678.02	4.0 2.3			55.972 -4.392
21 19 130 0.07	0.2 0.6 B A*C				2
EAB Z 101942.61	P 1EU45.81	S 2E			3
EAU Z 101948.40	P 1IU				24
					60

EBH Z 101948.71	P 2ED56.55	S 2EU			63
ELO Z 101950.12	P 2E 58.60	S 2ED			70
EDI Z 101950.80	P 2E 59.46	S 3E 2.5H0.19M		2.5 200	76
MCD NS1020			05.3H0.16ML	01.0 200	192
MCD EW1020			04.5H0.18ML	01.0 200	192
ESY Z 101956.25	P 3E 68.2	S 3E 5.2H0.3 M		1.0 200	111
EDU Z 101955.81	P 3E 68.19	S 2E			107
PCO Z 101941.56	P 0IU44.37	S			19
PMS Z 101942.87	P 0IU46.40	S 2ED			26
ESK Z 101955.44	P 2EU67.76	S 3			105
ESK NS1019			06.6H0.17ML	02.5 200	105
ESK EW1019			07.1H0.14ML	02.5 200	105
ECK Z 101957.81	P 2E 71.33	S 3			119
EDI NS1019	E	E 5.0H0.20ML		2.5 200	76
EDI EW1019	E	E 4.4H0.19ML		2.5 200	76
PCA Z 101943.69	P 1ID47.93	S 3E			32
MCD Z 102007.57	P 2E 29.50	S 3E			192
PGB Z 101941.64	P 0IU44.19	S 1E			19
-1					
010389ESK	ES 408	12.5	5.0DG	LSUNDERLAND, TYNE & WEAR	1
	181249.10	458.04/ 551.89	6.6 1.6	54.858 -1.096	2
	8 72 316 0.30	7.1 12.4 D D*D			3
XAL Z 181300.61	P 2E 10.61	S 2E			72
XSO Z 181305.98	P 1E 17.95	S 2ED			102
ECK Z 181310.34	P 2E 26.15	S 3E			135
ESK Z 181311.90	P 2E 28.74	S 3E			144
ESK NS1813			05.7H0.18ML	0.25 200	144
ESK EW1813			06.0H0.17ML	0.25 200	144
-1					
020389KEYWORTH+	KW 043	12.5	5.0JAR	LSTOKE-ON-TRENT, STAFFS	1
	33431.19	390.90/ 346.37	9.7 1.3	53.014 -2.136	2
	7 20 148 0.08	0.8 1.5 B A*C			3
KWE Z 033435.14	P 3E 38.00	S 3E			20
KBI Z 033439.60	P 3E				49
MCH Z 033452.10	P 4 66.48	S 3E			127
MCH NS0334			7.0H0.19ML	0.25 200	127
MCH EW0334			4.6H0.18ML	0.25 200	127
WLC Z 033449.40	P 3E 62.21	S 3E			110
WLC NS0334			2.8H0.10ML	0.25 200	110
WLC EW0334			3.9H0.12ML	0.25 200	110
WBR Z 033450.00	P 3E				120
-1					
030389 LOWNET	LN 634 634	12.5	5.0DWR	LPOWMILL, TAYSIDE	1
	7 3 1.96	301.12/ 697.73	3.0 0.9	56.162 -3.592	2
	7 11 182 0.28	6.9 81.2 D D*D COALFIELD TYPE	F/S 3.7S BEFORE, A/S 4.8S AFTER		3
EBH Z 070304.40	P 1IU05.81	S 3E			11
EAU Z 070307.50	P 2E 11.50	S 3E			36
EAB Z 070308.16	P 2E 12.80	S 3E			47
ELO Z 070308.52	P 2E 12.83	S 3E			35
EDI Z 070308.60	P 3E 13.90	S 3E 3.7H0.40M		0.25 200	37
EDI NS0703	E	E 5.0H0.40ML		0.25 200	37
EDI EW0703	E	E 4.3H0.35ML		0.25 200	37
-1					
040389N WALES			5.0RITCHIE	PRESTATYN, CLWYD	1
	161420.83	311.74/ 382.68	8.2 1.1	53.333 -3.326	2
	18 40 281 0.16	1.1 1.5 C B*D			3
WLC Z 161429.23	P 2E 34.62	S 2			48
WLC NS1614			13.3H0.1 ML	0.25 200	48
WLC EW1614			9.0 H0.1 ML	0.25 200	48
WBR Z 161431.85	P 2E 39.11	S 2			65
WST Z 161431.12	P 2E 38.00	S 2			60
WFB Z 161435.20	P 2E				87
WCB Z 161435.14	P 4 44.00	S 3			81
WCB NS1614			10.5H0.1 ML	0.25 200	81
WCB EW1614			8.1 H0.15ML	0.25 200	81
WPM Z 161427.7	P 2E 31.51	S 3			40
WLF Z 161432.7	P 2E				72
WME Z 161431.85	P 2E 39.26	S 3			65
YLL Z 161430.72	P 3E 37.90	S 3			60
YRH Z 161437.85	P 3E				104
WVR Z 161431.35	P 3E				63
YRE Z 161434.90	P 2E				83
-1					
050389 CORNWALL			5.0ABW	LBAY OF BISCAV	1
	191629.27	281.55 -283.74	5.0 2.5	47.336 -3.568	2
	6333 355 0.07	D D*D			3
CBW Z 191716.30	P 2E				333
CCO Z 191716.65	P 2E				334
CR2 Z 191716.86	P 2E 51.64	S 2			336
CR2 NS1917			3.5 0.09 ML	1.0 200	336
CR2 EW1917			4.0 0.05 ML	1.0 200	336
CCA Z 191717.40	P 2E				340
CSA Z 191718.55	P 2E				349

-1									
050389	PAISLEY+	PA 251	1412	12.5	5.0DWR	LRENFREW,STRATHCLYDE	1		
		192921.94	247.47/ 667.17	3.6 0.7		55.874 -4.438	2		
9	8 109	0.03	0.2 1.2 B A*B				3		
PGB Z	192923.73		P 1IU24.94		S 2EU 2.4H0.10M	2.5 200	8		
PGB NS1929			ED		ED10.5H0.11ML	2.5 200	8		
PGB EW1929			IU		ED 6.4H0.11ML	2.5 200	8		
PMS Z	192925.70		P 1IU28.41		S 2IU		19		
PCA Z	192926.22		P 2EU29.33		S 3E		23		
PCO Z	192926.62		P 3E 30.03		S 3E		25		
EAB Z	192928.93		P 2E 32.64		S 2E		36		
EBH Z	192933.88		P 2EU42.40		S 3E		71		
EDI Z	192935.93		P 3E 46.77		S 3E 1.6H0.09M	0.25 200	79		
EDI NS1929			E		E 2.0H0.10ML	0.25 200	79		
EDI EW1929			E		E 2.0H0.11ML	0.25 200	79		
-1									
090389N	WALES+				5.0MEAR/JARSTOKE-ON-TRENT,STAFFS		1		
		03658.01	387.68/ 345.67	1.8 1.8		53.008 -2.184	2		
16	23 119	0.28	1.1 1.4 C B*C				3		
WLC Z	003715.91		P 3E 28.42		S 3		107		
WLC NS0037					10.0H0.12ML	0.25 200	107		
WLC EW0037					11.5H0.14ML	0.25 200	107		
YRH Z	003724.64		P 3E				166		
WVR Z	003714.25		P 3E 26.25		S 3		99		
WBR Z	003717.2		P 2E				116		
WST Z	003717.9		P 3E				121		
WFB Z	003719.28		P 3E 34.53		S 4		130		
YRE Z	003722.48		P 3E 39.9		S 4		151		
KWE Z	003702.50		P 3E 05.51		S 4		23		
KBI Z	003706.97		P 3E				52		
HTR Z	003719.43		P 3E				127		
MCH Z	003719.08		P 3E 34.02		S 3		125		
MCH NS0037					18.5H0.18ML	0.25 200	125		
MCH EW0037					19.6H0.18ML	0.25 200	125		
BMV Z	003716.10		P 4E				99		
HPK Z	003716.97		P 3E 30.40		S 3		112		
-1									
110389N	WALES+				5.0RITCHIEBOLTON,GTR MANCHESTER		1		
		14 117.85	375.46/ 410.19	2.5 1.7		53.587 -2.371	2		
9	48 174	0.20	6.0 1.3 D D*C POSSIBLE COALFIELD TYPE				3		
WLC Z	140137.09		P 3E 50.53		S 3		115		
WLC NS1401					6.6 H0.12ML	0.25 200	115		
WLC EW1401					12.0H0.16ML	0.25 200	115		
WVR Z	140137.30		P 3E 52.40		S 3		121		
WFB Z	140142.13		P 3E				150		
BMV Z	140126.20		P 3E 32.73		S 2E		48		
HPK Z	140129.19		P 2E 37.11		S 2E 1.7H0.18M	1.0 200	64		
HPK NS1401			E		EU 9.5H0.19ML	1.0 200	64		
HPK EW1401			E		ED 4.5H0.19ML	1.0 200	64		
-1									
120389	PAISLEY+	PA 252	1241	12.5	5.0DWR	LSTRATHBLANE,S'CLYDE	1		
		7 232.30	250.63/ 678.05	2.7 0.3		55.972 -4.394	2		
8	19 131	0.09	0.5130.6 C C*C				3		
PGB Z	070235.90		P 2E 38.49		S 2E 0.7H0.15M	1.0 200	19		
PGB NS0702			ED		ED 5.4H0.10ML	1.0 200	19		
PGB EW0702			E		ID 2.2H0.17ML	1.0 200	19		
PCO Z	070236.00		P 1IU38.53		S 3E		19		
EAB Z	070236.60		P 3E 40.20		S 2EU 2.6H0.08M	0.25 200	24		
PMS Z	070237.27		P 1IU40.70		S 3E		26		
EBH Z	070241.11		P 2E 50.97		S 2E 2.1H0.10M	0.25 200	63		
-1									
130389	PAISLEY+	PA 252	1491	12.5	5.0DWR	LSTRATHBLANE,S'CLYDE	1		
		1 121.02	250.77/ 678.76	2.9 0.3		55.979 -4.392	2		
12	18 132	0.23	0.8 5.1 C C*C				3		
PGB Z	010124.61		P 3E 27.30		S 2E 1.0H0.10M	1.0 200	20		
PGB NS0101			EU		EU 6.3H0.11ML	1.0 200	20		
PGB EW0101			E		IU 1.8H0.19ML	1.0 200	20		
EAB Z	010124.70		P 3E 28.78		S 2E		24		
PCO Z	010124.88		P 1IU27.40		S 3E		18		
PMS Z	010126.12		P 1IU29.61		S 2ED		27		
PCA Z	010126.89		P 3E 31.10		S 3E		32		
EBH Z	010130.10		P 4E 39.70		S 3E		63		
EAU Z	010131.50		P 3E				61		
EDI Z	010132.00		P 4E 46.30		S 3E 1.3H0.09M	0.25 200	76		
EDI NS0101			E		E 1.1H0.10ML	0.25 200	76		
EDI EW0101			E		E 1.3H0.08ML	0.25 200	76		
-1									
130389	PAISLEY+	PA 252	1616	12.5	5.0DWR	LSTRATHBLANE,S'CLYDE	1		
		10 937.64	249.98/ 678.11	3.7 0.5		55.973 -4.404	2		
11	19 133	0.13	0.5 2.6 C B*C				3		
PGB Z	100941.34		P 2E 43.89		S 2E 1.0H0.10M	1.0 200	19		
PGB NS1009			E		EU 7.8H0.10ML	1.0 200	19		
PGB EW1009			E		ID 2.6H0.18ML	1.0 200	19		

PCO Z 100941.39	P 2EU44.00	S 3E						19
EAB Z 100942.31	P 3E 45.53	S 2E						24
PMS Z 100942.62	P 2EU45.63	S 3E						26
EBH Z 100948.43	P 3E 56.32	S 3E						64
EDI Z 100950.2	P 4E 60.09	S 3E	3.8H0.10M		0.25	200		76
EDI NS1009	E	E	3.0H0.10ML		0.25	200		76
EDI EW1009	E	E	1.6H0.11ML		0.25	200		76
-1								
180389HEREFORD+	HF511		5.0 NSH	LGLADESTRY,POWYS				1
	135650.90	316.74/ 256.97	2.4 1.6		52.204	-3.218		2
15 14 100 0.10	0.4	0.7 B A*C						3
MCH Z 135656.04	P 1I 59.70	S 1I						28
MCH NS1356			07.0H0.08ML		2.5	200		28
MCH EW1356			11.0H0.10ML		2.5	200		28
HAE Z 135659.85	P 1ID							50
HCG Z 135656.75	P 1ID							33
HGH Z 135662.73	P 3E							69
HTR Z 135653.90	P 1ID							14
HLM Z 135658.41	P 1IU							41
WLC Z 13577.19	P 3E 19.23	S 3						96
WLC NS1357			12.5H0.12ML		1.0	200		96
WLC EW1357			4.5 H0.11ML		1.0	200		96
YRH Z 135710.4	P 2E							119
WVR Z 13573.31	P 3E 11.5	S 3						71
WBR Z 13575.28	P 3E							86
WFB Z 13574.09	P 2E							77
WPM Z 135711.82	P 2E							126
KWE Z 135712.50	P 2E							
-1								
190389 LOWNET+	LN 636 1337	25.0	5.0DWR	LROSEWELL,LOTHIAN				1
	95631.97	329.15/ 662.94	0.5 0.6		55.854	-3.132		2
8 1 235 0.02	0.2	0.3 C A*D	COALFIELD TYPE					3
RHC Z 095632.32	P 0ID							1
RGH Z 095632.34	P 0ID							1
RRD Z 095632.40	P 0ID							1
RCA Z 095632.47	P 1ID32.94	S 3E						2
RCH Z 095632.53	P 1ID33.04	S 3E						2
RMM Z 095632.61	P 1ID							2
EDI Z 095633.96	P 1IU35.70	S 2EU	9.3H0.29M		1.0	200		8
EDI NS0956	IU	ED	3.5H0.70ML		1.0	200		8
EDI EW0956	E	EU	4.0H0.29ML		1.0	200		8
EBL Z 095634.20	P 1ID36.09	S 2EU						11
EAU Z 095636.18	P 2E 38.30	S 3E						20
ESY Z 095638.01	P 3E							33
-1								
210389 LOWNET+	RO 078	25.0	5.0JAR	LROSEWELL,LOTHIAN				1
	18 7 8.28	329.58/ 663.38	1.2-0.1		55.858	-3.125		2
8 1 261 0.05	0.5	0.9 C A*D	COALFIELD TYPE					3
RHC Z 180708.74	P 0IU							1
RGH Z 180708.79	P 0IU							2
RCA Z 180708.94	P 2EU09.56	S 3E						2
RCA NS1807			9.6H0.10M		0.25	4		2
RCA EW1807			9.5H0.11M		0.25	4		2
RRD Z 180708.95	P 2EU							2
RCH Z 180708.98	P 2EU09.58	S 3E						2
RMM Z 180709.00	P 2ED							2
EDI Z 180710.30	P 2ED11.82	S 2EU	4.0H0.22M		0.25	200		8
EDI NS1807	ED	IU	9.1H0.12ML		0.25	200		8
EDI EW1807	EU	IU	7.6H0.20ML		0.25	200		8
EAU Z 180712.40	P 2EU							21
-1								
220389 LOWNET+	RO 078	25.0	5.0JAR/DWRL	LROSEWELL,LOTHIAN				1
	1527 1.84	329.29/ 663.07	0.5 0.4		55.856	-3.130		2
8 1 245 0.03	0.1	0.7 C A*D	COALFIELD TYPE					3
RHC Z 152702.19	P 0ID							1
RGH Z 152702.26	P 0ID							1
RRD Z 152702.32	P 0IU							1
RCA Z 152702.41	P 0ID02.85	S 2E						2
RCA NS1527			4.6H0.13M		1.0	4		2
RCA EW1527			4.5H0.10M		1.0	4		2
RCH Z 152702.46	P 0ID02.95	S 2E						2
RMM Z 152702.47	P 0ID							2
EDI Z 152703.90	P 1IU05.02	S 3E	3.8H0.28M		1.0	200		8
EDI NS1527	IU	E	2.5H0.40ML		1.0	200		8
EDI EW1527	ED	E	2.5H0.41ML		1.0	200		8
-1								
220389 LOWNET	LN 637 195	12.5	5.0DWR	LCOMRIE,TAYSIDE				1
	205740.57	277.51/ 729.94	5.3 0.1		56.446	-3.987		2
6 17 223 0.18	5.7	7.1 D D*D						3
ELO Z 205743.90	P 2E 46.30	S 2EU	5.1H0.15ML		0.25	200		17
EAB Z 205747.30	P 2E 51.81	S 2EU	3.2H0.09ML		0.25	200		36
EBH Z 205747.71	P 2E 52.20	S 2EU	4.0H0.12ML		0.25	200		37
-1								

240389	LOWNET+	RO 078	25.0	5.0DWR	LROSEWELL,LOTHIAN	1	
	0 559.33	330.35/ 663.04	1.5 0.4		55.856 -3.113	2	
10	2 264 0.05	0.4 0.3 C A*D COALFIELD TYPE				3	
RHC	Z 000559.99	P 0IU				2	
RGH	Z 000600.04	P 0IU				2	
RRD	Z 000600.08	P 1IU	S			2	
RCA	Z 000600.18	P 1ED00.95	S 3E			3	
RCA	NS0006			5.0H0.14M	1.0 4	3	
RCA	EW0006			4.9H0.13M	1.0 4	3	
RCH	Z 000600.24	P 2E 00.98	S 3E			3	
RMM	Z 000600.25	P 2ED				3	
EDI	Z 000601.60	P 1ID03.19	S 1EU	1.9H0.30M	1.0 200	9	
EDI	NS0006	ID		IU 4.5H0.21ML	1.0 200	9	
EDI	EW0006	EU		IU 4.9H0.21ML	1.0 200	9	
EBL	Z 000602.90	P 3E				10	
	-1						
240389	HEREFORD	HF412		5.0NSH	LBARGOED,MID GLAMORGAN	1	
	049 0.86	313.25/ 199.22	0.0 1.5		2+ 51.685 -3.255	2	
8	31 239 0.13	1.7 1.6 C B*D FELT BARGOED				3	
MCH	Z 004908.34	P 2I 13.91	S 1			39	
MCH	NS0049			04.9H0.20ML	1 200	39	
MCH	EW0049			06.3H0.32ML	1 200	39	
HAE	Z 004912.65	P 3E				63	
HCG	Z 004914.52	P 2I				76	
HGH	Z 004906.98	P 1ID11.81	S 2			31	
HTR	Z 004909.18	P 1I 15.30	S 2			44	
	-1						
270389	KEYWORTH+	KW 047	12.5	5.0JAR	LNEWPORT,SALOP	1	
	71623.73	373.93/ 318.77	5.4 1.0		52.766 -2.386	2	
10	44 135 0.22	1.6 6.3 C C*C				3	
KWE	Z 071631.73	P 2EU				46	
KBI	Z 071637.28	P 3E				79	
HLM	Z 071631.39	P 2E				44	
HAE	Z 071637.88	P 3E				82	
MCH	Z 071639.40	P 2E 50.72	S 3			95	
MCH	NS0716			8.0H0.08ML	0.25 200	95	
MCH	EW0716			4.9H0.09ML	0.25 200	95	
HTR	Z 071640.10	P 3E				97	
HCG	Z 071640.43	P 3E				99	
WFB	Z 071642.73	P 3E				112	
WLC	Z 0716	4 51.33	S 3			97	
WLC	NS0716			3.7H0.09ML	0.25 200	97	
WLC	EW0716			3.2H0.11ML	0.25 200	97	
	-1						
280389	LOWNET	LN 638	12.5	5.0DWR	LCLACKMANNAN,CENTRAL	1	
	212025.56	291.19/ 691.45	0.5 1.2		56.103 -3.750	2	
10	22 137 0.09	0.4 0.5 B A*C COALFIELD TYPE				3	
EBH	Z 212030.02	P 1ID33.61	S 2ED			22	
EAU	Z 212032.13	P 2ED37.10	S 2EU			34	
EAB	Z 212032.89	P 2EU37.13	S 3E			38	
EDI	Z 212033.19	P 2ED38.90	S 2E	4.9H0.50M	0.25 200	41	
EDI	NS2120	E		IU 7.2H0.40ML	0.25 200	41	
EDI	EW2120	EU		EU 6.8H0.38ML	0.25 200	41	
ELO	Z 212033.30	P 3E 38.94	S 3E			41	
	-1						
310389	LOWNET+	RO 080	25.0	5.0JAR/DWR	LROSEWELL,LOTHIAN	1	
	520 4.66	329.76/ 663.56	0.2 0.2		55.860 -3.122	2	
9	1 271 0.05	0.4 0.2 C A*D COALFIELD TYPE				3	
RHC	Z 052005.13	P 1IU				1	
RGH	Z 052005.21	P 2EU05.72	S 3IU			2	
RCA	Z 052005.33	P 3E 06.03	S 3E			2	
RCA	NS0520			5.2H0.12M	0.25 4	2	
RCA	EW0520			5.7H0.11M	0.25 4	2	
RCH	Z 052005.34	P 2EU06.10	S 3E			2	
RRD	Z 052005.37	P 2E				2	
RMM	Z 052005.38	P 3E				2	
EDI	Z 052006.70	P 2ED08.15	S 2E	6.0H0.30M	0.25 200	8	
EDI	NS0520	ED		EU 8.7H0.28ML	0.25 200	8	
EDI	EW0520	EU		IU 9.2H0.29ML	0.25 200	8	
EAU	Z 052008.88	P 2ED					
EBL	Z 052007.02	P 3EU08.82	S 2E				
	-1						
020489	LOWNET	LN 638	1795	12.5	5.0DWR	LROSEWELL,LOTHIAN	1
	223240.27	330.08/ 662.88	1.4-0.1		55.854 -3.117	2	
5	9 182 0.04	0.0 0.0 C A*D COALFIELD TYPE				3	
EDI	Z 223242.52	P 2E 44.18	S 2EU	8.1H0.32M	0.25 200	9	
EDI	NS2232	E		ED 5.0H0.28ML	0.25 200	9	
EDI	EW2232	E		EU 4.4H0.28ML	0.25 200	9	
EBL	Z 223242.70	P 3E 44.50	S 2E			10	
EAU	Z 223244.55	P 2E				21	
	-1						
020489	LOWNET+	RO 080	25.0	5.0DWR	LROSEWELL,LOTHIAN	1	
	223640.66	329.57/ 663.41	0.8 0.5		55.859 -3.125	2	

7	1	292	0.03	0.4	1.0	C A*D	COALFIELD TYPE					3	
RHC	Z	223641.09				P	1IU					1	
RGH	Z	223641.13				P	2E					2	
RRD	Z	223641.26				P	2E					2	
RCA	Z	223641.30				P	2E 41.81	S	3E			2	
RCA	NS	2236								3.2H0.09M	1.0	4	2
RCA	EW	2236								4.1H0.14M	1.0	4	2
RCH	Z	223641.36				P	2E 41.88	S	3E				2
EDI	Z	223642.70				P	1ID44.19	S	2E	2.9H0.30M	1.0	200	8
EDI	NS	2236					ED			5.0H0.21ML	1.0	200	8
EDI	EW	2236					EU			5.8H0.21ML	1.0	200	8
EBL	Z	223643.00				P	2ED44.63	S	3E				11
EAU	Z	223644.81				P	1IU						21
		-1											
030489	KYLE+									5.0BS			1
		1152	5.79	177.54/	803.60	2.1	1.8				57.070	-5.670	2
		-1											
16	20	129	0.12	0.4	0.9	B	A*C						3
KAR	Z	115208.92				P	1ID11.28	S	3E				20
KSB	Z	115209.38				P	1ID11.78	S	3E				22
KPL	Z	115210.72				P	1ED14.36	S	2E				30
KPL	NS	1152								19.0H0.12ML	01.0	200	30
KPL	EW	1152								18.0H0.28ML	01.0	200	30
KAC	Z	115214.36				P	1ED20.36	S	3E				53
KSK	Z	115218.08				P	1E						76
MDO	Z	115220.11				P	1EU						89
MVH	Z	115226.60				P	1E 41.00	S	3E				130
MCD	Z	115230.99				P	3E 48.10	S	3E				157
MCD	NS	1152								06.0H0.10ML	01.0	200	157
MCD	EW	1152								04.5H0.13ML	01.0	200	157
MME	Z	115232.50				P	2E 49.90	S	3E				166
		-1											
050489	HEREFORD									5.0	NSH	BARGOED,MID GLAMORGAN	1
		95422.96		313.23/	199.30	0.3	0.8				51.685	-3.255	2
		-1											
6	31	259	0.03	0.7	0.6	C	A*D						3
MCH	Z	095430.48				P	1ID35.90	S	1I				39
MCH	NS	0954								11.7H0.18ML	0.25	200	39
MCH	EW	0954								07.0H0.12ML	0.25	200	39
HGH	Z	095429.18				P	1IU33.69	S	1I				32
HTR	Z	095431.20				P	1ID37.35	S	1I				44
		-1											
050489	LOWNET									5.0	DWR	LBLAIRHALL,FIFE	1
		121742.29		298.88/	692.26	1.0	1.4				56.112	-3.626	2
		-1											
8	17	192	0.11	1.1	1.1	C	B*D	COALFIELD TYPE					3
EDI	Z	121748.90				P	1IU53.90	S	2E	2.3H0.41M	1.0	200	35
EDI	NS	1217					IU			4.3H0.40ML	1.0	200	35
EDI	EW	1217					ID			3.9H0.32ML	1.0	200	35
EAU	Z	121748.32				P	1IU52.84	S	3E				32
EBH	Z	121745.90				P	1IU48.32	S	2I				17
ELO	Z	121749.90				P	2ED55.70	S	3E				40
		-1											
060489	LOWNET									5.0	DWR	LPOLTON,LOTHIAN	1
		918	9.08	328.79/	664.85	1.6	0.6				55.872	-3.138	2
		-1											
4	6	289	0.04	0.0	0.0	C	A*D	COALFIELD TYPE					3
EDI	Z	091810.90				P	2ED12.22	S	2EU	3.5H0.30M	1.0	200	7
EDI	NS	0918					E			6.8H0.22ML	1.0	200	7
EDI	EW	0918					EU			6.8H0.22ML	1.0	200	7
EAU	Z	091813.08				P	1ID16.30	S	3E				20
		-1											
060489	CORNWALL									5.0		BAY OF BISCAY	1
		13	522.85	250.76/-	534.85	5.0	3.8				45.071	-3.896	2
		-1											
8562	357	0.05					D	D*D					3
CGH	Z	130639.13				P	2E						562
CBW	Z	130639.95				P	2E						572
CCO	Z	130640.00				P	2E						572
CR2	Z	130640.24				P	2E 96.80	S	2				575
CR2	NS	1306								16.0H0.05ML	1.0	200	575
CR2	EW	1306								16.0H0.06ML	1.0	200	575
CCA	Z	130640.60				P	2E						578
CST	Z	130640.60				P	2E						578
CPZ	Z	130640.89				P	2E						580
		-1											
060489	LOWNET									5.0	DWR	LFOREST MILL,CENTRAL	1
		142022.85		295.58/	692.79	1.0	1.1				56.116	-3.680	2
		-1											
6	18	245	0.11	2.2	1.9	C	B*D	COALFIELD TYPE					3
EBH	Z	142026.61				P	1IU29.50	S	2EU	6.0H0.42ML	1.0	200	18
ELO	Z	142029.80				P	3E 35.8	S	3E	5.5H0.42ML	0.25	200	40
EAB	Z	142030.80				P	3E 36.3	S	3E	4.8H0.50ML	0.25	200	42
		-1											
060489	LOWNET+									5.0	DWR	LPEEBLES,BORDERS	1
		225410.34		323.83/	635.49	3.6	0.1				55.607	-3.209	2
		-1											
10	21	150	0.19	1.0	2.9	C	B*C						3
EBL	Z	225414.9				P	4E 17.30	S	2E				21
EAU	Z	225416.09				P	2E 20.02	S	2E				31

ESK Z 225416.61	P 2ED20.25	S 2E	2.8H0.09M	0.25	200	32
ESK NS2254	EU	E	2.5H0.09ML	0.25	200	32
ESK EW2254	E	E	3.5H0.09ML	0.25	200	32
ECK Z 225419.20	P 3ED24.91	S 3E				48
EDI Z 225416.83	P 2E 21.49	S 2E	1.2H0.10M	0.25	200	35
EDI NS2254	E	E	3.2H0.14ML	0.25	200	35
EDI EW2254	E	E	2.2H0.12ML	0.25	200	35
ESY Z 225419.9	P 4E 24.80	S 3E				51
-1						
080489 LOWNET	LN 639 1194	12.5	5.0DWR	LROSEWELL,LOTHIAN		1
	45620.56	329.61/ 662.60	1.4 0.9	55.851	-3.124	2
7 9 118 0.08	0.4 0.4 B A*B	COALFIELD TYPE				3
EDI Z 045622.80	P 0IU24.39	S 2ED14.5H0.39M		1.0	200	9
EDI NS0456	IU	ED12.8H0.23ML		1.0	200	9
EDI EW0456	ID	EU 8.0H0.38ML		1.0	200	9
EBL Z 045623.00	P 1ED24.71	S 3E				10
EAU Z 045624.91	P 2EU28.02	S 3E				21
ESY Z 045627.32	P 3E 31.70	S 3E				33
EBH Z 045630.02	P 2E 36.58	S 3E				50
-1						
080489N WALES+			5.0RITCHIELLLANELLI,DYFED			1
	1654 8.91	250.51/ 210.73	3.1 1.3	51.775	-4.167	2
14 70 246 0.14	1.0 1.8 C A*D	NORTH OF LLANELLI				3
WLC Z 165431.55	P 3E 46.91	S 3				138
WLC NS1654			8.0 H0.1 ML	0.25	200	138
WLC EW1654			7.5 H0.12ML	0.25	200	138
YRH Z 165428.96	P 2E					122
WFB Z 165425.85	P 3E 37.22	S 3				101
YRE Z 165431.10	P 3E 46.90	S 2				135
WST Z 1654	46.12	S 2				134
HPK Z 120848.50	P 2E 54.90	S 2I				
HPK NS1208			07.0H0.20	1		
MCH Z 165422.90	P 2E 32.56	S 2				84
MCH NS1654			17.5H0.05ML	0.25	200	84
MCH EW1654			9.6 H0.06ML	0.25	200	84
HCG Z 165420.9	P 1IU28.6	S 3				70
HGH Z 165424.92	P 3E					95
HTR Z 165420.82	P 3E					70
-1						
100489NORTH SEA			5.0BS	NORTHERN NORTH SEA		1
	1143 8.59	648.35 1063.42	1.0 2.3	59.384	2.374	2
14165 291 0.35	12.1 13.3 D D*D					3
SUE Z 114342.52	P 1I 66.00	S 3I				229
HYA Z 114350.13	P 1I 78.86	S 3E				290
ODDIZ 114344.71	P 1I 70.91	S 3E				247
KMY Z 114333.68	P 1E 52.94	S 3E				165
ASK Z 114338.74	P 1I 59.97	S 3E				200
BLSIZ 114345.74	P 1E 71.98	S 3E				253
FRO Z 114351.31	P 2E 81.50	S 3E				298
-1						
100489 LOWNET+	RO 082	25.0	5.0DWR	LROSEWELL,LOTHIAN		1
	191352.48	329.22/ 663.40	1.6 0.5	55.859	-3.131	2
13 1 223 0.05	0.3 0.1 C A*D	COALFIELD TYPE				3
RHC Z 191352.99	P 0IU53.36	S 2IU				1
RGH Z 191353.05	P 0IU53.56	S 2IU				1
RMM Z 191353.11	P 2E					2
RRD Z 191353.16	P 2E 53.61	S 2IU				2
RCA Z 191353.17	P 2E 53.69	S 3E	3.9H0.25M	1.0	4	2
RCA NS1913	E	E	5.1H0.12M	1.0	4	2
RCA EW1913	E	EU	6.2H0.14M	1.0	4	2
RCH Z 191353.26	P 2ED53.62	S 3E	8.8H0.22M	1.0	4	2
RCH NS1913	E	E	7.0H0.25M	1.0	4	2
RCH EW1913	E	EU	6.9H0.24M	1.0	4	2
EDI Z 191354.59	P 2ED55.97	S 2E	3.0H0.28M	1.0	200	8
EDI NS1913	ED	EU	5.1H0.21ML	1.0	200	8
EDI EW1913	EU	E	5.5H0.22ML	1.0	200	8
EBL Z 191354.68	P 3E 55.97	S 3E				11
EAU Z 191356.71	P 2ED59.91	S 3E				20
EBH Z 191401.61	P 3E					49
-1						
110489 LOWNET+	RO 082	25.0	5.0DWR	LROSEWELL,LOTHIAN		1
	141154.40	329.45/ 663.34	0.9 0.6	55.858	-3.127	2
10 1 255 0.03	0.2 0.3 C A*D	COALFIELD TYPE				3
RHC Z 141154.77	P 1IU55.15	S 2ED				1
RGH Z 141154.87	P 1IU					1
RRD Z 141154.95	P 2E 55.44	S 2IU				2
RCA Z 141155.05	P 2E 55.52	S 3E	4.8H0.20M	1.0	4	2
RCA NS1411	E	E	6.7H0.11M	1.0	4	2
RCA EW1411	E	EU	7.5H0.13M	1.0	4	2
RMM Z 141155.05	P 2EU					2
RCH Z 141155.09	P 2ED55.52	S 3E	9.8H0.20M	1.0	4	2
RCH NS1411	E	E	8.5H0.25M	1.0	4	2
RCH EW1411	E	EU	8.0H0.26M	1.0	4	2

PHASE DATA : 1989

Table 5 (cont'd)

EDI Z 141156.40	P 2ED57.72	S 2E	3.7H0.30M	1.0	200	8
EDI EW1411	ED	EU	6.6H0.20ML	1.0	200	8
EDI NS1411	EU	E	7.4H0.22ML	1.0	200	8
EAU Z 141158.52	P 2E					21
-1						
130489 LOWNET	LN 640 526	12.5	5.0DWR	LROSEWELL,LOTHIAN		1
5 319.46	328.84/ 662.67	0.1 0.8		55.852	-3.137	2
7 9 121 0.12	0.4 0.5 B A*B	COALFIELD TYPE				3
EDI Z 050321.60	P 1ID22.93	S 2E	5.3H0.28M	1.0	200	9
EDI NS0503	ID	EU	13.6H0.21ML	1.0	200	9
EDI EW0503	EU	ED	9.3H0.21ML	1.0	200	9
EBL Z 050321.91	P 2ED23.05	S 3EU				11
EAU Z 050323.79	P 1ID					20
ESY Z 050326.14	P 2E					34
EBH Z 050328.86	P 2E					50
-1						
130489 LOWNET	LN 640 526	12.5	5.0DWR	LROSEWELL,LOTHIAN		1
5 433.11	330.89/ 663.28	2.6-0.3		55.858	-3.104	2
5 9 193 0.02	0.4 44.9 D C*D	COALFIELD TYPE				3
EDI Z 050435.11	P 1ED36.49	S 2E	2.5H0.29M	0.25	200	9
EDI NS0504	ED	EU	3.8H0.18ML	0.25	200	9
EDI EW0504	EU	E	4.0H0.22ML	0.25	200	9
EBL Z 050435.29	P 2E 36.87	S 3E				10
EAU Z 050437.30	P 2ED					22
-1						
130489KEYWORTH+	KW 050	12.5	5.0JAR	LWICKERSLEY,S YORKSHIRE1		1
20 823.04	449.15/ 389.99	0.3 1.6		53.404	-1.261	2
8 24 159 0.38	2.8 4.3 C C*C	COALFIELD TYPE				3
KBI Z 200827.72	P 2E					24
KWE Z 200833.28	P 3E					58
KSY Z 200835.00	P 3E					67
HPK Z 200835.40	P 3E 43.00	S 3				66
HPK NS2008			6.6H0.13ML	1.0	200	66
HPK EW2008			4.7H0.21ML	1.0	200	66
WVR Z 200851.29	P 3E					171
WLC Z 200851.40	P 3E 72.35	S 3				174
WLC NS2008			2.3H0.14ML	0.25	200	174
WLC EW2008			1.7H0.20ML	0.25	200	174
MCH Z 2008	P 4					196
MCH NS2008			5.1H0.20ML	0.25	200	196
MCH EW2008			4.3H0.18ML	0.25	200	196
-1						
170489 LOWNET+	RO 083	25.0	5.0DWR	LROSEWELL,LOTHIAN		1
1031 5.00	329.43/ 663.45	1.5 0.8		55.859	-3.128	2
17 1 106 0.09	0.4 0.2 B A*B	COALFIELD TYPE				3
RHC Z 103105.51	P 0IU05.88	S 2ED				1
RGH Z 103105.58	P 1IU06.06	S 2ED				2
RRD Z 103105.69	P 3E 06.11	S 2EU				2
RCA Z 103105.71	P 2EU06.27	S 3E	2.5H0.10M	2.5	4	2
RCA NS1031	E	EU	2.8H0.11M	2.5	4	2
RCA EW1031	E	ED	3.7H0.12M	2.5	4	2
RCH Z 103105.75	P 2E 06.13	S 3E	6.3H0.19M	2.5	4	2
RCH NS1031	E	EU	5.5H0.21M	2.5	4	2
RCH EW1031	E	EU	5.5H0.19M	2.5	4	2
RMM Z 103105.78	P 2ED					2
EDI Z 103107.10	P 0ID08.42	S 2E	6.5H0.30M	1.0	200	8
EDI NS1031	ID	EU	10.5H0.22ML	1.0	200	8
EDI EW1031	IU	E	11.8H0.22ML	1.0	200	8
EBL Z 103107.40	P 2ED08.56	S 3E				11
EAU Z 103109.28	P 0ID12.48	S 3E				21
ESY Z 103111.62	P 3E					33
EBH Z 103114.38	P 2EU20.89	S 3E				49
-1						
170489ESK	ES416		5.0BS	IRISH SEA		1
234214.97	279.40/ 499.97	1.2 1.3		54.381	-3.857	2
7 28 319 0.10	5.2 3.5 D D*D					3
XDE Z 234220.30	P 1IU					28
ECK Z 234232.20	P 2EU44.40	S 3E				101
ESK Z 234233.81	P 3E 47.50	S 3E				112
ESK NS2342			06.5H0.09ML	0.25	200	112
ESK EW2342			07.5H0.12ML	0.25	200	112
XAL Z 234234.80	P 2E 49.49	S 3E				119
-1						
190489 LOWNET+	RO 084	25.0	5.0DWR	LROSEWELL,LOTHIAN		1
22 130.60	329.28/ 663.52	1.7 0.5		55.860	-3.130	2
14 1 177 0.07	0.4 0.1 B A*C	COALFIELD TYPE				3
RHC Z 220131.09	P 0IU31.44	S 2ED				1
RGH Z 220131.15	P 0IU					1
RCA Z 220131.28	P 2EU31.86	S 3E	4.4H0.19M	1.0	4	2
RCA NS2201	E	EU	3.4H0.20M	1.0	4	2
RCA EW2201	ED	E	3.8H0.19M	1.0	4	2
RCH Z 220131.30	P 2EU31.83	S 3E	8.4H0.19M	1.0	4	2
RCH NS2201	E	EU	8.8H0.20M	1.0	4	2

RCH EW2201	E	E	8.4H0.19M	1.0	4	2
RRD Z 220131.36	P 2EU					2
RMM Z 220131.37	P 1ID					2
EDI Z 220132.61	P 2ED34.10	S 2E	4.3H0.28M	1.0	200	8
EDI NS2201	ED	ED	7.4H0.18ML	1.0	200	8
EDI EW2201	EU	EU	5.8H0.21ML	1.0	200	8
EBL Z 220132.98	P 3E 34.60	S 3E				11
EAU Z 220134.80	P 2ED37.80	S 3E				20
EBH Z 220139.69	P 3E					49
-1						
200489 N WALES+	WF 195		5.0NSH	LYDNEY,GLOUCESTERSHIRE1		
1159 7.40	360.42/ 204.63	2.7 2.1		51.738	-2.573	2
11 20 232 0.46	4.1 3.6 D C*D					3
WLC Z 115933.95	P 3E 53.20	S E				162
WLC NS1159			06.5H0.48ML	0.25	200	162
WLC EW1159			07.0H0.40ML	0.25	200	162
YRH Z 115937.00	P 1ID					186
WVR Z 115930.40	P 2ID					137
WBR Z 115932.50	P 3E					154
WFB Z 115930.78	P 3E					145
MCH Z 115913.80	P 2E					41
MCH NS			23.2H0.25	0.25		41
MCH EW			22.0H0.38	0.25		41
HAE Z 115913.20	P 1I					33
HGH Z 115911.16	P 1I					20
HTR Z 115917.22	P 2E 24.38	S 2I				61
-1						
200489 N WALES+	WF 195		5.0NSH	LMOSSLEY,GTR MANCHESTER1		
12 839.68	402.25/ 406.36	4.6 2.2		53.554	-1.966	2
11 50 206 0.09	2.8 1.6 D C*D					3
WLC Z 120901.60	P 2E 17.68	S 2I				136
WLC NS1209			04.5H0.25ML	1.0	200	136
WLC EW1209			04.5H0.28ML	1.0	200	136
WVR Z 120902.30	P 2E 18.79	S 2E				138
WBR Z 120903.80	P 2ID21.38	S 2E				150
WST Z 120903.50	P 2ID					150
WFB Z 120906.35	P 3E 26.06	S 3E				169
HPK Z 120848.50	P 2E 54.90	S 2I				50
HPK NS1208			07.0H0.20	1.0		50
HPK EW1208			07.0H0.19	1.0		
-1						
210489 LOWNET+	RO 084	25.0	5.0DWR	LROSEWELL,LOTHIAN		1
121545.71	329.50/ 663.46	1.7 0.7		55.859	-3.126	2
16 1 233 0.10	0.5 0.2 C A*D COALFIELD TYPE					3
RHC Z 121546.22	P 1IU46.63	S 2EU				1
RGH Z 121546.29	P 0IU46.80	S 3E				2
RCA Z 121546.43	P 2EU47.01	S 3E	2.4H0.10M	2.5	4	2
RCA NS1215	E	EU	2.1H0.09M	2.5	4	2
RCA EW1215	E	E	3.3H0.10M	2.5	4	2
RRD Z 121546.45	P 2EU46.85	S 2EU				2
RCH Z 121546.50	P 2E 47.02	S 3E	5.5H0.18M	2.5	4	2
RCH NS1215	E	ED	4.5H0.15M	2.5	4	2
RCH EW1215	E	ED	4.6H0.18M	2.5	4	2
RMM Z 121546.51	P 2ED47.06	S 3E				2
EDI Z 121547.81	P 1ID49.11	S 2E	5.5H0.30M	1.0	200	8
EDI NS1215	ED	EU	8.5H0.22ML	1.0	200	8
EDI EW1215	EU	E	9.0H0.22ML	1.0	200	8
EAU Z 121549.95	P 1ID53.22	S 3E				21
EBH Z 121554.90	P 3E 61.60	S 3E				49
-1						
210489 KYLE+			5.0	LPOOLEWE,HIGHLAND		1
223654.73	183.90/ 886.06	17.8 2.1		57.812	-5.638	2
7 40 323 0.05	1.0 0.6 C B*D					3
KAC Z 223702.08	P 1IU07.04	S 2E				40
KPL Z 223703.88	P 1EU10.16	S 2E				53
KPL NS2237			12.5H0.10ML	02.5	200	53
KPL EW2237			10.0H0.14ML	02.5	200	53
KSB Z 223706.32	P 1EU13.80	S 2E				68
KAR Z 223710.80	P 3E 22.80	S 3E				100
MVH Z 223708.71	P 1EU18.30	S 3E				
MDO Z 223708.81	P 1EU					
MLA Z 223717.71	P 1ED34.50	S 3E				
MCD Z 223717.81	P 1E 34.41	S 3E				
MCD NS2237			08.0H0.10ML	01.0	200	
MCD EW2237			09.5H0.11ML	01.0	200	
MME Z 223719.20	P 1E 41.49	S 3E				
MFI Z 223726.70	P 1E					
-1						
220489HEREFORD	HF 517		5.0NSH	LBEULAH,POWYS		1
94158.39	291.21/ 253.01	5.6 0.6		52.164	-3.591	2
6 18 231 0.05	1.3 0.8 C B*D					3
MCH Z 094206.30	P 1ID12.08	S 2I				45
MCH NS0942			04.5H0.10ML	0.25	200	45

MCH EW0942				04.0H0.18ML	0.25 200	45
HCG Z 094201.95	P 1I	04.61	S 2I			18
HTR Z 094203.05	P 1I	06.20	S 2E			24
-1						
230489KEYWORTH+	KW 051		25.0	5.0JAR	LGAINSBOROUGH, LINCS	1
214353.88	492.58/ 393.70		18.1 2.4		53.432 -0.606	2
9 46 212 0.15	1.3 1.3 C B*D			EAST OF GAINSBOROUGH		3
KSY Z 214403.05	P 1IU	09.87	S 3			52
KBI Z 214404.60	P 2EU	13.03	S 3			65
KUF Z 214408.35	P 3E					92
KWE Z 214409.09	P 3E					95
BUR Z 214402.15	P 2ED					46
HPK Z 214408.22	P 1ID	19.02	S 3			89
HPK NS2144				14.7H0.19ML	1.0 200	89
HPK EW2144				18.4H0.20ML	1.0 200	89
-1						
240489KEYWORTH+	KW 051		25.0	5.0JAR	LSTOKE-ON-TRENT, STAFFS	1
42450.59	387.89/ 347.31		5.2 1.4		53.023 -2.181	2
10 23 151 0.15	1.1 1.8 C B*C					3
KWE Z 042454.97	P 2E	58.05	S 3			23
KBI Z 042459.48	P 2E					51
WVR Z 042466.81	P 3E					99
WLC Z 042467.71	P 3E	80.76	S 3			107
WLC NS0424				3.1H0.13ML	0.25 200	107
WLC EW0424				4.1H0.12ML	0.25 200	107
WBR Z 042469.83	P 3E					117
WFB Z 042472.28	P 3E					131
YRH Z 042477.17	P 3E					166
MCH Z 042471.70	P 4	86.32	S 3			127
MCH NS0424				9.7H0.21ML	0.25 200	127
MCH EW0424				5.3H0.19ML	0.25 200	127
-1						
240489 SHETLAND				5.0BS	RNORTHERN NORTH SEA	1
195311.74	528.44 1094.88		5.8 2.0		59.720 0.284	2
8 91 331 0.10	2.3 2.4 C B*D					3
LRW Z 195326.91	P 1EU	37.50	S 3E			94
LRW NS1953				4.5H0.09ML	2.5 200	94
LRW EW1953				4.2H0.08ML	2.5 200	94
SAN Z 195326.63	P 1ED	37.20	S 3E			92
WAL Z 195331.40	P 1E	45.00	S 3E			120
YEL Z 195331.00	P 1E	44.90	S 3E			120
-1						
250489 LOWNET+	RO 085		25.0	5.0DWR	LROSEWELL, LOTHIAN	1
155225.55	329.39/ 663.38		0.6 0.7		55.858 -3.128	2
10 1 283 0.04	0.3 0.7 C A*D			COALFIELD TYPE		3
RHC Z 155225.90	P 1IU	26.24	S 2ED			1
RGH Z 155225.96	P 2EU	26.35	S 3E			1
RCH Z 155226.15	P 2E	26.65	S 3E	16.6H0.20M	1.0 4	2
RCH NS1552	E			E 15.1H0.22M	1.0 4	2
RCH EW1552	E			E 12.2H0.25M	1.0 4	2
RRD Z 155226.19	P 3E	26.52	S 2E			2
RCA Z 155226.25	P 3E	26.70	S 2E			2
RCA NS1552	E			EU 5.3H0.13M	1.0 4	2
RCA EW1552	E			E 5.1H0.19M	1.0 4	2
EDI Z 155227.50	P 1ID	28.95	S 2E	5.5H0.29M	1.0 200	8
EDI NS1552	ED			ED 9.6H0.22ML	1.0 200	8
EDI EW1552	E			EU 8.1H0.22ML	1.0 200	8
EAU Z 155229.64	P 1ID	32.89	S 3E			21
EBH Z 155234.78	P 3E					49
-1						
250489 KYLE+				5.0	LULLAPOOL, HIGHLAND	1
204346.79	211.04/ 899.92		2.0 1.4		57.949 -5.193	2
13 50 228 0.22	1.8 1.7 C B*D					3
KAC Z 204354.92	P 2E	60.44	S 2E			50
KSB Z 204362.12	P 4E	69.80	S 3E			83
KAR Z 204367.20	P 3E					121
KPL NS204359.00	P 3E			05.0H0.14ML	0.25 200	73
KPL EW204359.00	P 3E			05.5H0.16ML	0.25 200	73
KPL Z 204359.00	P 3E					73
MVH Z 204356.40	P 1EU					60
MDO Z 204358.90	P 1EU					75
MLA Z 204405.41	P 2E	18.20	S 3E			115
MCD Z 204406.60	P 1EU	20.92	S 3E			122
MCD NS2044				03.0H0.18ML	01.0 200	122
MCD EW2044				03.0H0.10ML	01.0 200	122
MME Z 204410.50	P 2E	28.30	S 3E			151
-1						
260489 LOWNET+	RO 085		25.0	5.0DWR	LROSEWELL, LOTHIAN	1
1 840.23	329.94/ 663.37		0.6 0.5		55.858 -3.119	2
10 1 302 0.02	0.7 1.2 C A*D			COALFIELD TYPE		3
RHC Z 010840.73	P 1IU	41.13	S 1IU			2
RGH Z 010840.80	P 1IU	41.30	S 2EU			2
RRD Z 010840.86	P 3E	41.36	S 2EU			2

RCH Z 010841.04	P 2ED41.52	S 3E	8.0H0.22M	1.0	4	3
RCH NS0108	E	EU	8.9H0.19M	1.0	4	3
RCH EW0108	E	E	7.4H0.25M	1.0	4	3
RCA Z 010841.06	P 3E 41.57	S 3E	4.7H0.19M	1.0	4	3
RCA NS0108	E	EU	6.6H0.10M	1.0	4	3
RCA EW0108	E	E	4.0H0.16M	1.0	4	3
EDI Z 010842.39	P 1ID43.81	S 2E	4.0H0.29M	1.0	200	8
EDI NS0108	ID	ED	5.6H0.20ML	1.0	200	8
EDI EW0108	EU	E	5.0H0.23ML	1.0	200	8
EBL Z 010842.60	P 2E 44.41	S 3EU				11
EAU Z 010844.52	P 1ID47.60	S 3E				21
-1						
270489 LOWNET+	RO 085	25.0	5.0DWR	LROSEWELL,LOTHIAN		1
194727.15	329.71/ 663.43	1.1 0.6		55.859 -3.123		2
10 1 297 0.01	0.1 0.2 C A*D	COALFIELD TYPE				3
RHC Z 194727.65	P 0IU28.00	S 2ED				1
RGH Z 194727.71	P 0IU28.22	S 2EU				2
RRD Z 194727.80	P 2E 28.28	S 2EU				2
RCH Z 194727.86	P 2EU28.40	S 3E	15.0H0.20M	1.0	4	2
RCH NS1947	E	ED	13.3H0.22M	1.0	4	2
RCH EW1947	E	EU	11.8H0.24M	1.0	4	2
RCA Z 194727.87	P 2EU28.46	S 2ED	6.7H0.17M	1.0	4	2
RCA NS1947	E	EU	5.5H0.12M	1.0	4	2
RCA EW1947	E	EU	5.0H0.18M	1.0	4	2
EDI Z 194729.22	P 0ID30.70	S 2E	5.1H0.28M	1.0	200	8
EDI NS1947	ID	ED	8.6H0.22ML	1.0	200	8
EDI EW1947	EU	EU	7.5H0.22ML	1.0	200	8
EBL Z 194729.50	P 3E 30.70	S 3E				11
EAU Z 194731.39	P 1ID34.70	S 3E				21
EBH Z 194736.50	P 3E 42.90	S 3E				50
-1						
280489 PAISLEY+	PA 258	12.5	5.0DWR	LSTRATHBLANE,CENTRAL		1
32127.57	250.92/ 677.81	3.3 0.4		55.970 -4.389		2
9 18 129 0.13	0.5 18.4 C C*C					3
PCO Z 032131.18	P 0IU33.71	S 3E				18
PGB Z 032131.18	P 2E 33.82	S 2E	3.5H0.12M	0.25	200	19
PGB NS0321	E	EU	21.5H0.11ML	0.25	200	19
PGB EW0321	E	ED	13.6H0.19ML	0.25	200	19
PMS Z 032132.50	P 2EU36.00	S 3E				26
EAB Z 032132.50	P 2E 35.33	S 2E	4.3H0.10M	0.25	200	25
PCA Z 032133.30	P 3E					31
EBH Z 032138.59	P 3E 45.76	S 2E	3.1H0.15M	0.25	200	63
-1						
300489 LOWNET	LN 642 1735	12.5	5.0DWR	LTYNDRUM,CENTRAL		1
165213.69	231.77/ 727.61	8.5 1.5		56.411 -4.727		2
11 34 263 0.39	3.9 42.0 D C*D					3
EAB Z 165219.89	P 2E 24.22	S 3E				35
ELO Z 165223.31	P 3E 32.25	S 3E				63
PCO Z 165224.30	P 2EU					61
PMS Z 165224.49	P 2EU31.67	S 2ED	3.5H0.10M	0.25	200	63
PGB Z 165226.07	P 2ED33.33	2E				69
PGB NS1652	E	ED	3.0H0.11M	0.25	200	69
EBH Z 165226.31	P 3E 36.79	S 3E				78
EDI Z 165228.5	P 4E 45.71	S 2E	3.1H0.18M	0.25	200	110
EDI NS1652	E	E	5.8H0.20ML	0.25	200	110
EDI EW1652	E	E	3.2H0.30ML	0.25	200	110
PCA Z 165229.87	P 1ED					84
EDU Z 165231.50	P 3E 44.30	S 3E				107
-1						
010589LOWNET+	LN 642		5.0DWR	LARDLUI,STRATHCLYDE		1
32231.29	232.82/ 717.02	18.2 1.0		56.316 -4.703		2
5 27 300 0.08	2.7 2.1 D C*D					3
EAB Z 032236.78	PG2E 40.72	SG3E				27
ELO Z 032241.25	P 2E 48.70	S 3E				64
PGB Z 032241.51	P 1ED50.35	S 2E				58
PGB NS0322		2E	4.5H0.07ML	0.25	200	58
PGB EW0322		2E	3.5H0.06ML	0.25	200	58
EBH Z 032242.40	P 2E 51.46	S 3E				74
PCA Z 032246.11	P 1ED					74
PMS Z 032240.35	P 2ED					52
PCO Z 032240.40	P 2EU					53
EAU Z 032247.90	P 4E 60.92	S 3E				94
EDU Z 032248.37	P 3E 61.93	S 3E				107
EDI Z 032248.75	P 3E 62.78	S 3E	3.2H0.19M	0.25	200	104
EDI NS0322		E	5.8H0.15ML	0.25	200	104
EDI EW0322		E	5.8H0.22ML	0.25	200	104
-1						
020589 CORNWALL			5.0	LLANDS END,CORNWALL		1
93940.53	12.61/-214.17	5.0 2.6		47.856 -7.180		2
8281 353 0.09	11.8 6.9 D D*D	280 KM SW OF	LANDS END			3
CPZ Z 094021.39	P 1E					281
CGH Z 094022.09	P 2E					285
CCO Z 094022.68	P 1E					292

CCA Z 094023.06	P 1E							296
CBW Z 094023.15	P 1E							296
CR2 Z 094023.16	P 1E 54.28		S 2					296
CR2 NS0940				11.5H0.04ML		1.0	200	296
CR2 EW0940				9.4H0.05ML		1.0	200	296
CST Z 094023.40	P 1E							299
-1								
020589KEYWORTH+	KW 052		25.0	5.0JAR	LSTOKE-ON-TRENT,STAFFS			1
122740.71	387.33/ 348.33		3.9 2.0		53.032		-2.189	2
16 23 153 0.14	0.8 1.5 B A*C							3
KWE Z 122745.19	P 2ED48.22		S 3					23
KBI Z 122749.69	P 2EU							51
KSY Z 122760.32	P 4E							108
HLM Z 122753.00	P 3E							74
HAE Z 122760.10	P 3E							113
MCH Z 122761.81	P 3E 76.58		S 3					128
MCH NS1227				9.1H0.19ML		1.0	200	128
MCH EW1227				9.0H0.15ML		1.0	200	128
HTR Z 122762.08	P 3E							129
HCG Z 122762.13	P 3E							127
WVR Z 122757.05	P 3E							99
WLC Z 122758.30	P 2ED70.91		S 3					107
WLC NS1227				4.5H0.10ML		1.0	200	107
WLC EW1227				6.0H0.13ML		1.0	200	107
WBR Z 122759.90	P 2EU							116
WST Z 122760.60	P 3E							121
WFB Z 122761.90	P 3E							130
YRH Z 122767.25	P 3E							166
-1								
020589KEYWORTH+	KW 052		12.5	5.0JAR	LSTOKE-ON-TRENT,STAFFS			1
143154.69	387.68/ 347.84		6.3 1.6		53.027		-2.184	2
10 23 152 0.08	0.5 0.8 B A*C							3
KWE Z 143159.09	P 3E							23
KBI Z 143163.50	P 3E							51
MCH Z 143176.87	P 4 90.41		S 3					127
MCH NS1431				11.0H0.19ML		0.25	200	127
MCH EW1431				11.5H0.17ML		0.25	200	127
WVR Z 143171.12	P 3E							99
WLC Z 143172.44	P 3E 84.85		S 3					107
WLC NS1431				5.5H0.10ML		0.25	200	107
WLC EW1431				7.0H0.15ML		0.25	200	107
WBR Z 143173.69	P 3E							117
WST Z 143174.42	P 3E							121
WFB Z 143175.68	P 3E							131
YRH Z 143181.18	P 3E							166
-1								
020589KEYWORTH+	KW 052		12.5	5.0JAR	LSTOKE-ON-TRENT,STAFFS			1
174237.42	387.14/ 350.25		2.4 1.6		53.049		-2.192	2
14 24 156 0.24	1.1 1.1 C B*C							3
KWE Z 174241.91	P 3E 45.03		S 3					24
KBI Z 174246.46	P 3E							50
HLM Z 174251.10	P 4E							76
MCH Z 174259.24	P 3E 73.40		S 3					129
MCH NS1742				14.9H0.14ML		0.25	200	129
MCH EW1742				14.4H0.15ML		0.25	200	129
HAE Z 174257.24	P 3E							115
HCG Z 174259.16	P 3E							128
HTR Z 174259.24	P 3E							130
WVR Z 174253.98	P 3E							99
WLC Z 174255.04	P 3E 67.85		S 3					107
WLC NS1742				8.1H0.11ML		0.25	200	107
WLC EW1742				8.6H0.12ML		0.25	200	107
WBR Z 174256.60	P 3E							116
WFB Z 174258.71	P 3E							131
YRH Z 174264.14	P 3E							166
-1								
030589LOWNET	LN 643			5.0GAM	BLAIRHALL,FIFE			1
134635.90	298.44/ 691.77		0.5 1.3		56.108		-3.633	2
4 17 227 0.00	0.0 0.0 C A*D COALFIELD TYPE							3
EBH Z 134639.69	P 1E							17
EAU Z 134642.06	P 2E							31
EDI Z 134642.61	P 0ID47.51		S 2					35
EDI NS1346			S 2	10.4H0.18ML		0.25	200	35
EDI EW1346			S 2	11.8H1.25ML		0.25	200	35
ELO Z 134643.80	P 1ID49.60		S 2					41
-1								
030589HEREFORD	HF 518			5.0NSH	BRECON,POWYS			1
153322.50	290.91/ 232.96		16.1 1.2		51.984		-3.589	2
5 24 265 0.04	1.8 0.8 C B*D							3
MCH Z 153329.80	P 1I 35.15		S 1I					41
MCH NS1533				07.0H0.08ML		1	200	41
MCH EW1533				11.5H0.08ML		1	200	41
HCG Z 153329.42	P 1ID							38

HTR Z 153327.56	P 1IU						24
HLM Z 153335.20	P 2E						76
-1							
030589LOWNET+	LN643			5.0GAM	LROSEWELL,LOTHIAN		1
233641.54	331.61/ 663.11	1.0	0.2		55.856	-3.093	2
7 3 303 0.05	1.1 1.3 C B*D	COALFIELD TYPE					3
RHC Z 233642.36	P 0IU						3
RGH Z 233642.43	P 0IU						4
RCA Z 233642.60	P 2E 43.36	S 3					4
RCA NS2336		3	7.6H0.07M		1.0	200	4
RCA EW2336		3	5.5H0.09M		1.0	200	4
RCH Z 233642.67	P 1E 43.37	S 2					
RCH NS2336	43.37	S 2	13.2H0.09M		1.0	200	4
RCH EW2336		2	11.8H0.07M		1.0	200	4
EDI Z 233644.93	P 0ID46.44	S 2					10
EDI NS2336		2	9.1H0.07ML		1.0	200	10
EDI EW2336		2	8.6H0.07ML		1.0	200	10
EBL Z 233645.40	P 2E 47.07	S 3					10
EAU Z 233647.10	P 1ID						23
-1							
040589N WALES				5.0RITCHIELLLEYN,GWYNEDD			1
14 7 0.81	239.48/ 342.72	21.1	1.0		52.	-4.390	2
15 4 176 0.15	0.8 1.5 B A*C	LLEYN AFTERSHOCK					3
WLC Z 14078.3	P 1I 13.54	S 2					41
WLC NS1407			5.4 H0.15ML		1.0	200	41
WLC EW1407			1.9 H0.10ML		1.0	200	41
WBR Z 14077.35	2E 11.97	S 2					35
WST Z 14076.52	P 1IU10.26	S 3					27
WFB Z 14077.85	P 3E 12.85	S 3					39
YRC Z 14077.32	P 2E 12.0	S 2					35
YRE Z 14074.36	P 2E						4
WLF Z 14078.10	P 1ID12.2	S 2					37
YLL Z 14075.97	P 1IU9.75	S 2					25
-1							
040589LOWNET+	LN643			5.0GAM	LROSEWELL,LOTHIAN		1
18 628.10	329.82/ 663.50	1.4	0.1		55.860	-3.121	2
9 1 282 0.06	0.9 0.5 C A*D	COALFIELD TYPE					3
RHC Z 180628.58	P 0IU28.94	S 3					1
RGH Z 180628.54	P 0IU29.11	S 2					2
RCH Z 180628.84	P 1IU29.22	S 2					2
RCH NS1806		2	8.2H0.06M		1.0	200	2
RCH EW1806		2	7.7H0.09M		1.0	200	2
RCA Z 180628.89	P 1IU	2					2
RCA NS1806		2	5.5H0.07M		1.0	200	2
RCA EW1806		2	4.0H0.08M		1.0	200	2
EDI Z 180630.16	P 0ID31.67	S 2					8
EDI NS1806		2	5.1H0.09ML		1.0	200	8
EDI EW1806		2	4.9H0.09ML		1.0	200	8
EBL Z 180630.49	P 2E 32.28	S 3					11
EAU Z 180632.42	P 1ID						21
-1							
070589KEYWORTH+	KW 053		12.5	5.0JAR	LSTOKE-ON-TRENT,STAFFS		1
2316 1.15	386.84/ 348.65	3.2	2.0		53.035	-2.196	2
17 24 154 0.18	0.9 2.0 C B*C						3
KWE Z 231605.67	P 2ED08.72	S 3E					24
KBI Z 231610.16	P 2EU						51
KSY Z 231619.52	P 3E						108
KUF Z 231623.06	P 3E						130
HLM Z 231613.45	P 3E						74
MCH Z 231622.31	P 3E 37.10	S 2					128
MCH NS2316				7.0H0.11ML	1.0	200	128
MCH EW2316				5.5H0.13ML	1.0	200	128
HCG Z 231622.50	P 3E						127
HTR Z 231623.04	P 4E						129
HGH Z 231627.88	P 3E						161
WVR Z 231617.70	P 2ED29.35	S 3					98
WLC Z 231618.75	P 2EU31.46	S 3					106
WLC NS2316				3.6H0.11ML	1.0	200	106
WLC EW2316				4.4H0.12ML	1.0	200	106
WBR Z 231620.38	P 3E						116
WST Z 231620.98	P 3E						121
WFB Z 231622.41	P 2ED37.58	S 4					130
YRH Z 231627.71	P 2ED						165
HPK Z 231620.90	P 4 32.62	S 4					109
HPK NS2316				10.0H0.16ML	1.0	200	109
HPK EW2316				10.0H0.15ML	1.0	200	109
-1							
070589KEYWORTH+	KW 053		12.5	5.0JAR	LSTOKE-ON-TRENT,STAFFS		1
231742.85	386.76/ 347.30	2.3	1.8		53.022	-2.197	2
14 24 112 0.19	0.6 0.9 C B*C						3
KWE Z 231747.25	P 2EU50.46	S 3E					24
KBI Z 231751.90	P 2EU						52
KSY Z 231761.37	P 3E						108

KUF Z 231764.79	P 3E								130
MCH Z 231765.25	P 4 78.88	S 3							126
MCH NS2317				3.9H0.18ML		1.0	200		126
MCH EW2317				3.7H0.14ML		1.0	200		126
WVR Z 231759.40	P 3E								98
WLC Z 231760.50	P 3E 73.20	S 2							106
WLC NS2317				8.9H0.10ML		0.25	200		106
WLC EW2317				9.9H0.12ML		0.25	200		106
WBR Z 231762.09	P 3E								116
WST Z 231763.39	P 3E								120
WFB Z 231764.12	P 3E								130
YRH Z 231769.44	P 3E								165
HPK Z 231762.42	P 4 74.68	S 3							111
HPK NS2317				6.0H0.14ML		1.0	200		111
HPK EW2317				8.4H0.13ML		1.0	200		111
-1									
080589HEREFORD+	HF 519			5.0NSH	LL'DRINDOD WELLS, POWYS1				
6 053.53	310.29/ 256.98	9.1 1.7			52.203 -3.313				2
13 14 153 0.13	1.3 3.8 C B*C								3
MCH Z 060059.20	P 1ID63.41	S 1I							31
MCH NS0600				18.5H0.11ML		2.5	200		31
MCH EW0600				13.0H0.10ML		2.5	200		31
HCG Z 060058.54	P 1ID62.20	S 1I							27
HGH Z 060065.58	P 3E								72
HTR Z 060056.60	P 1ID								14
WLC Z 060109.2	P 4 19.99	S 3							94
WLC NS				06.0H0.13		0.25			94
WLC EW				04.2H0.15		0.25			94
WVR Z 060105.5	P 3E 13.45	S 3							69
WBR Z 060107.64	P 2E 17.03	S 3							83
WFB Z 060105.82	P 2E 13.9	S 2							73
-1									
100589KEYWORTH+	KW 053		12.5	5.0JAR	LSTOKE-ON-TRENT, STAFFS				1
1645 7.45	387.90/ 347.52	2.5 1.6			53.025 -2.180				2
9 23 151 0.06	0.4 0.9 B A*C								3
KWE Z 164511.78	P 3E								23
KBI Z 164516.50	P 3E								51
MCH Z 164528.05	P 4 43.58	S 3							127
MCH NS1645				12.0H0.20ML		0.25	200		127
MCH EW1645				12.1H0.17ML		0.25	200		127
WVR Z 164524.12	P 3E								99
WLC Z 164525.34	P 3E 37.77	S 3							107
WLC NS1645				5.5H0.15ML		0.25	200		107
WLC EW1645				6.0H0.12ML		0.25	200		107
WBR Z 164526.64	P 3E								117
WFB Z 164528.79	P 3E								131
YRH Z 164534.13	P 3E								166
-1									
100589KEYWORTH+	KW 053		12.5	5.0JAR	LLEEK, STAFFORDSHIRE				1
183442.98	395.89/ 357.47	25.2 1.5			53.114 -2.061				2
8 18 163 0.15	1.6 1.5 C B*C								3
KWE Z 183448.13	P 2EU								18
KBI Z 183450.41	P 2IU								39
MCH Z 183464.07	P 4 79.70	S 2E							140
MCH NS1834				11.0H0.17ML		0.25	200		140
MCH EW1834				8.4H0.11ML		0.25	200		140
WVR Z 183460.20	P 3E								110
WLC Z 183461.50	P 3E 74.08	S 3E							116
WLC NS1834				4.2H0.18ML		0.25	200		116
WLC EW1834				4.3H0.12ML		0.25	200		116
WBR Z 183462.71	P 3E								126
WFB Z 183465.00	P 3E								141
YRH Z 183470.32	P 3E								175
-1									
110589LOWNET+	LN 644			5.0GAM	LROSEWELL, LOTHIAN				1
129 2.98	329.82/ 663.25	1.2 0.0			55.857 -3.121				2
9 1 246 0.06	0.6 1.0 C A*D COALFIELD TYPE								3
RHC Z 01290339	P 0IU								1
RGH Z 01290345	P 0IU								2
RRD Z 012903.57	P 0ID04.02	S 3							2
RCA Z 012903.59	P 1E 04.17	S 2							2
RCA NS0129			2	5.6H0.07M		1.0	4		2
RCA EW0129			2	5.2H0.07M		1.0	4		2
RMM Z 012903.68	P 1IU								2
EDI Z 012905.17	P 0ID06.66	S 2							8
EDI NS0129			2	5.9H0.08ML		1.0	200		8
EDI EW0129			2	4.9H0.08ML		1.0	200		8
EBL Z 012905.50	P 2E								11
EAU Z 012907.37	P 1ID10.57	S 3							21
-1									
110589 CORNWALL				5.0	LLIZARD POINT, CORNWALL				1
31914.99	105.58/ -45.48	34.5 0.9			49.419 -6.060				2
8101 357 0.19	21.5258.7 D D*D SOUTHWEST OF LIZARD POINT								3

CCO Z 031931.25	P 2E 42.27	S 2					101
CR2 Z 0319	43.05	S 2					105
CR2 NS0319			5.9 H0.05ML		0.25 200		105
CR2 EW0319			6.1 H0.07ML		0.25 200		105
CCA Z 0319	43.10	S 2					104
CST Z 031931.46	P 2E 44.05	S 2					108
CTR Z 0319	43.16	S 2					105
CRA Z 0319	43.50	S 2					104
-1							
120589NORTH SEA			5.0BS		RNORTHERN NORTH SEA		1
192626.22	632.48 1103.27	15.0 2.3			59.750 2.139		2
10186 296 0.81	34.2 44.6 D D*D						3
SUE Z 192654.90	P 1E 77.20	S 3E					205
HYA Z 192704.00	P 1E 34.20	S 3E					273
ODD1Z 192702.00	P 1E 27.00	S 3E					253
KMY Z 192653.70	P 1E 70.70	S 3E					186
ASK Z 192653.50	P 1E 75.90	S 3E					189
-1							
130589LOWNET+	LN 644		5.0GAM		LROSEWELL,LOTHIAN		1
12927.22	330.32/ 663.70	1.1 0.0			55.861 -3.113		2
9 2 253 0.03	0.4 1.0 C A*D	COALFIELD TYPE					3
RHC Z 012927.76	P 0IU						2
RGH Z 012927.83	P 0IU						2
RRD Z 012927.93	P 1E						3
RCA Z 012928.02	P 1E 28.62	S 2					3
RCA NS0129		2	6.0H0.07M		1.0 200		3
RCA EW0129		2	5.6H0.07M		1.0 200		3
RCH Z 012928.05	P 1ID28.50	S 2					3
RCH NS0129		2	8.0H0.07M		1.0 200		3
RCH EW0129		2	6.7H0.09M		1.0 200		3
EDI Z 012929.28	P 0IU30.87	S 2					8
EDI NS0129		2	6.3H0.08ML		1.0 200		8
EDI EW0129		2	5.1H0.06ML		1.0 200		8
EAU Z 012931.50	P 1ID						21
-1							
130589LOWNET+	LN 644		5.0GAM		LARDNAMURCHAN,HIGHLAND		1
31041.71	157.12/ 774.72	1.5 0.7			56.801 -5.979		2
4 16 343 0.52	0.0 0.0 D D*D						3
EAB Z 031069.53	P 2E						122
KAR Z 031044.57	P 1ID47.96	S 3					16
KPL Z 031053.43	P 1ID60.44	S 3					63
KPL NS0310		3	4.2H0.09ML		0.25 200		63
KPL EW0310		3	4.4H0.09ML		0.25 200		63
-1							
150589HEREFORD+	HF 520		5.0NSH		LLAMPETER,DYFED		1
125559.73	261.49/ 247.83	0.1 1.0			52.111 -4.023		2
11 34 211 0.14	0.9 1.0 C A*D						3
MCH Z 125612.32	P 2E 21.74	S 2					71
MCH NS1256			06.6H0.11ML		0.25 200		71
MCH EW1256			06.5H0.10		0.25		71
HCG Z 125606.22	P 1I 11.48	S 1					34
HGH Z 125616.93	P 2E						99
HTR Z 125609.38	P 3E						52
YRH Z 125615.35	P 2I						90
WBR Z 125614.38	P 3E						83
WST Z 125616.38	P 3E 28.57	S 2E					96
WFB Z 125611.05	P 3E						64
-1							
150589ESK+	ES420		5.0BS		LRENFREW,STRATHCLYDE		1
132117.52	250.64/ 677.67	3.6 1.6			55.969 -4.393		2
10 18 130 0.08	0.4 2.8 C B*C						3
ESK Z 132135.01	P 1ED47.80	S 3E					104
ESK NS1321			06.0H0.09ML		01.0 200		104
ESK NS1321			07.5H0.10ML		01.0 200		104
ECK Z 132137.41	P 2E 51.40	S 3E					119
XDE Z 132145.50	P 3E						173
EAB Z 132122.26	P 0IU25.40	S 2					25
EBH Z 132128.44	P 1ID36.11	S 3					64
ELO Z 132129.90	P 1E 37.93	S 3					70
EDI Z 132132.82	P 2E 40.42	S 3					77
EDI NS1321		S 3	5.3H0.06ML		1.0 200		77
EDI EW1321		S 3	4.7H0.07ML		1.0 200		77
EDU Z 132135.66	P 1E						107
ESY Z 132137.52	P 1E						113
PGB Z 132121.15	P 0IU23.63	S 2					
PCO Z 132121.16	P 0IU23.81	S 3					
PMS Z 132122.40	P 0IU25.90	S 3					
-1							
150589N WALES			5.0RITCHIELBARMOUTH,GWYNEDD				1
194528.73	264.74/ 311.76	9.8 0.6			52.686 -4.001		2
13 2 196 0.08	0.5 0.7 C A*D						3
WLC Z 194535.19	P 1IU39.59	S 2					38
WLC NS1945			9.0 H0.11ML		0.25 200		38

WLC EW1945				7.3 H0.09ML	0.25 200	38
YRH Z 194536.52	P 1IU41.80	S 1				45
WVR Z 194534.0	P 2E 37.58	S 2				30
WBR Z 194532.56	P 1IU35.20	S 1				20
WST Z 194534.44	P 1ID38.19	S 3				32
WFB Z 194530.40	P 2E					3
YRE Z 194536.40	P 3E					44
WPM Z 194539.28	P 3E					64
-1						
150589KEYWORTH	KW 054		12.5	5.0JAR	LOADBY, LEICESTER	1
233452.80	465.96/ 297.96	2.4 1.5			52.575 -1.027	2
6 26 228 0.17	1.2 1.2 C B*D					3
CWF Z 233457.98	P 2 61.01	S 2				26
KUF Z 233460.62	P 1IU					43
KSY Z 233462.18	P 2ID					53
KWE Z 233466.10	P 3E			6.5H0.30ML	0.25 200	74
KBI Z 233467.27	P 3E					83
-1						
160589ESK	ES420			5.0BS	LCARRONBRIDGE, DUMFRIES	1
5 731.46	308.07/ 592.61	4.1 0.3			55.219 -3.445	2
6 19 298 0.09	1.8 1.9 C B*D					3
ESK Z 050735.09	P 1IU37.60	S 3E				19
ESK NS0507				05.5H0.10ML	01.0 200	19
ESK EW0507				05.0H0.07ML	01.0 200	19
ECK Z 050735.49	P 1EU38.40	S 3E				21
XSO Z 050745.30	P 2E					82
XAL Z 050746.10	P 2E					88
-1						
190589HEREFORD	HF 521			5.0NSH	LUDLOW, HEREFORD	1
153315.67	344.04/ 269.40	17.7 1.1			52.319 -2.821	2
9 22 161 0.24	1.4 3.9 C B*C					3
MCH Z 153322.90	P 3E 27.70	S 2I				38
MCH NS1533				08.0H0.18ML	0.25 200	38
MCH EW1533				15.0H0.30ML	0.25 200	38
HAE Z 153322.46	P 2I 27.48	S 2E				37
HCG Z 153326.28	P 2I 32.45	S 2E				57
HTR Z 153322.89	P 3E					41
HLM Z 153320.40	P 2I 24.08	S 1I				22
-1						
230589ESK+	ES421			5.0BS	LTRAQUAIR, BORDERS	1
1518 9.32	334.78/ 632.70	5.7 1.6			55.584 -3.035	2
11 21 118 0.10	0.6 0.7 B A*C					3
ESK Z 151815.10	P 1IU18.72	S 3E				32
ESK NS1518				02.8H0.09ML	10.0 200	32
ESK EW1518				05.0H0.09ML	10.0 200	32
ECK Z 151817.41	P 1ED22.50	S 3E				45
XSO Z 151818.31	P 2EU24.31	S 3E				51
XAL Z 151826.00	P 1ED					96
XDE Z 151830.21	P 2E					124
EBL Z 151813.51	P 0ID16.28	S 2				21
EAU Z 151816.40	P 0ID					39
EDI Z 151816.35	P 1ID21.36	S 2				39
EDI NS1518				7.6H0.08ML	2.5 200	39
EDI EW1518				7.4H0.08ML	2.5 200	39
ESY Z 151817.27	P 1IU					46
-1						
270589N WALES+				5.0RITCHIELCAERNARVON BAY, GWYNEDDI		
1416 0.86	235.56/ 351.63	10.2 1.4			53.036 -4.453	2
24 6 97 0.22	0.6 1.0 B B*B					3
WCB Z 14167.55	P 2IU11.9	S 3				39
WCB NS1416				5.6 H0.06ML	1.0 200	39
WCB EW1416				6.1 H0.08ML	1.0 200	39
YRC Z 14165.5	P 1IU8.69	S 3				25
YRE Z 14163.11	P 1ID					6
WPM Z 14168.41	P 2IU					44
WLF Z 14165.9	P 1IU					28
WME Z 14167.8	P 1IU12.82	S 2				41
YLL Z 14165.06	P 1IU8.03	S 2				22
WLC Z 14169.30	P 3E 14.25	S 2				46
WLC NS1416				10.0H0.15ML	2.5 200	46
WLC EW1416				8.0 H0.11ML	2.5 200	46
YRH Z 14165.4	P 1IU					26
WVR Z 141611.25	P 2E 18.61	S 2				63
WBR Z 14168.1	P 1ID12.80	S 3				43
WST Z 14166.45	P 2E					32
WFB Z 14169.04	P 2E 14.79	S 2				48
ECP Z 141626.0	P 3E 44.60	S 3				161
ECB Z 141627.9	P 3E 48.20	S 3				174
-1						
280589LOWNET+	LN 646			5.0GAM	LINVERGARRY, HIGHLAND	1
3 619.45	241.41/ 799.13	7.3 0.9			57.056 -4.615	2
10 45 210 0.53	3.3 7.0 D D*D					3
ELO Z 030633.54	P 1ID43.61	S 3		8.7H0.08M	0.25 200	85

EAB Z 030636.11	P 2E 46.72	S 3	5.9H0.06M	0.25 200	98
EBH Z 030638.10	P 2ID50.89	S 3	3.7H0.08M	0.25 200	113
MDO Z 030626.89	P 3E 32.40	S 2			46
MCD Z 030636.80	P 3E 48.59	S 3			101
MCD NS0306			2.9H0.11ML	0.25 200	101
MCD EW0306			3.5H0.09ML	0.25 200	101
-1					
310589ESK+	ES422		5.0BS	LSEDBERGH, CUMBRIA	1
61718.92	371.11/ 492.52	6.9 1.9		54.327 -2.444	2
9 61 159 0.10	0.8 2.0 C B*D				3
XAL Z 061729.20	P 1E				61
XDE Z 061730.70	P 1ED39.50	S 3E			71
ECK Z 061736.51	P 1EU48.60	S 3E			105
ESK Z 061739.19	P 2EU52.71	S 3E			121
ESK NS0617			04.8H0.09ML	01.0 200	121
ESK EW0617			05.8H0.17ML	01.0 200	121
XSO Z 061740.80	P 2E 55.89	S 3E			130
WLC Z 061746.01	P 3E 64.10	S 2E			172
WLC NS0617			10.5H0.20	0.25	172
WLC EW0617			09.5H0.10		172
WVR Z 061747.08	P 3E				187
WBR Z 061747.38	P 2E				190
WST Z 061746.42	P 3E				182
EBL Z 061746.12	P 1IU65.08	S 3			
EAU Z 061748.50	P 2E 67.88	S 3			
ESY Z 061748.50	P 2E 68.21	S 3			
EDI Z 061752.10	P 4 70.11	S 3			
EDI NS0617		3	6.7H0.07ML	0.25 200	
EDI EW0617		3	3.8H0.07ML	0.25 200	
HPK Z 061730.38	P 0ID38.56	S 2			
HPK NS0617		2	7.0H0.09ML	2.5 200	
-1					
310589KEYWORTH	KW 056	12.5	5.0JAR	LRAINWORTH, NOTTS	1
185914.60	461.66/ 358.42	0.1 0.7		53.119 -1.079	2
5 34 263 0.03	2.4 1.4 C B*D	COALFIELD TYPE			3
KBI Z 185921.16	P 3E 26.05	S 3			34
CBF Z 185923.18	P 3E 29.37	S 3			45
CBF NS1859			5.9H0.10ML	0.25 200	45
CBF EW1859			5.8H0.13ML	0.25 200	45
KWE Z 185924.32	P 3E				52
KSY Z 185926.17	P 4E				37
-1					
020689N WALES+			5.0RITCHIELCOLWYN BAY, CLWYD		1
610 5.16	281.77/ 376.58	18.4 0.9		53.273 -3.773	2
25 9 176 0.15	0.6 0.7 B A*C				3
WCB Z 061014.09	P 3E 20.00	S 3			53
WCB NS0610			10.0H0.14ML	0.25 200	53
WCB EW0610			7.7 H0.12ML	0.25 200	53
YRC Z 061014.15	P 2E 20.56	S 2			54
YRE Z 061014.77	P 1ID				54
WPM Z 06108.4	P 1IU10.88	S 1			9
WLF Z 061012.41	P 1IU				42
WME Z 061012.23	P 2E 16.56	S 3			38
YLL Z 061010.9	P 1IU15.10	S 2			30
WLC Z 061010.97	P 2E 15.06	S 3			31
WLC NS0610			12.0H0.07ML	2.5 200	31
WLC EW0610			11.5H0.10ML	2.5 200	31
YRH Z 061017.7	P 2E				75
WVR Z 061014.38	P 1ID21.0	S 3			54
WBR Z 061013.25	P 2E 18.92	S 2			47
WST Z 061011.75	P 1IU				36
WFB Z 061016.4	P 2E				68
HLM Z 061022.0	P 3E				103
HCG Z 061022.50	P 3E				106
WIM Z 061023.29	P 3E 36.29	S 2			114
-1					
050689N WALES			5.0RITCHIELBALA, GWYNEDD		1
14034.70	296.85/ 340.56	16.6 0.4		52.952 -3.535	2
10 17 231 0.07	0.6 0.6 C A*D				3
WLC Z 014038.70	P 2E 41.34	S 2			17
WLC NS0140			15.0H0.08ML	1.0 200	17
WLC EW0140			8.4 H0.05ML	1.0 200	17
WVR Z 014038.75	P 2E 41.40	S 2			18
WBR Z 014039.88	P 1IU43.30	S 2			26
WFB Z 014042.63	P 2E 47.90	S 2			45
WLF Z 0140	54.09	S 3			69
WPM Z 0140	46.98	S 3			42
-1					
070689ESK	ES423		5.0BS	LSKIPTON, N YORKSHIRE	1
161951.87	401.93/ 452.87	0.2 1.4		53.972 -1.971	2
10100 307 0.29	17.3 11.8 D D*D				3
XAL Z 162009.10	P 1EU21.41	S 3E			100
XDE Z 162011.29	P 2ED26.00	S 3E			116

ECK Z 162017.99	P 2E 35.00	S 3E				154
ESK Z 162019.00	P 2EU39.39	S 3E				170
ESK NS1620			03.8H0.10ML	0.25	200	170
ESK EW1620			04.8H0.14ML	0.25	200	170
XSO Z 162019.39	P 3E 39.90	S 3E				170
-1						
090689LOWNET	LN 648		5.0GAM	LCLACKMANNAN,CENTRAL		1
142916.98	290.44/ 693.57	8.6 1.2		56.122	-3.762	2
4 21 260 0.07	0.0 0.0 C A*D	COALFIELD TYPE				3
EBH Z 142921.06	P 0IU		2			21
EAU Z 142923.59	P 1E 28.34	S 3				36
ELO Z 142925.60	P 3I 30.95	S 3				39
EDI Z 142924.11	P 1I 29.32	S 3	4.5H0.90M	0.25	200	42
EDI NS1429		3	6.8H0.42ML	0.25	200	42
EDI EW1429		3	9.5H0.35ML	0.25	200	42
-1						
100689HEREFORD+	HF 524		5.0NSH/JARLSTOKE-ON-TRENT,STAFFS			1
84121.98	387.20/ 348.24	4.5 2.2		53.031	-2.191	2
21 24 138 0.19	0.7 1.5 C B*C					3
MCH Z 084143.04	P 1ID57.75	S 2				127
MCH NS0841			18.0H0.18ML	1	200	127
MCH EW0841			15.5H0.14ML	1	200	127
HCG Z 084143.00	P 3E					127
HGH Z 084148.56	P 3E					161
HTR Z 084143.20	P 2ID58.28	S 3				129
HLM Z 084134.28	P 2I					74
HAE Z 084141.13	P 3E					113
KWE Z 084126.37	P 1IU29.49	S 3E				24
KBI Z 084130.90	P 2E					51
CWF Z 084133.59	P 1ID41.83	S 3E				68
CWF NS0841			14.5H0.15ML	1.0	200	68
CWF EW0841			13.7H0.16ML	1.0	200	68
KSY Z 084140.42	P 3E					108
WVR Z 084138.28	P 2EU49.93	S 3E				99
WLC Z 084139.64	P 2ED51.98	S 3E				107
WLC NS0841			9.0H0.10ML	1.0	200	107
WLC EW0841			12.4H0.11ML	1.0	200	107
WBR Z 084141.03	P 2ED					116
WFB Z 084143.13	P 2EU					130
YRH Z 084148.49	P 2E					166
WPM Z 084141.94	P 3E					118
-1						
100689HEREFORD+	HF 524		5.0NSH/JARLSTOKE-ON-TRENT,STAFFS			1
92851.25	387.76/ 348.45	5.3 2.0		53.033	-2.183	2
20 23 137 0.14	0.5 0.8 B A*C					3
MCH Z 092872.30	P 2E 87.02	S 2E				128
MCH NS0928			10.5H0.20ML	1	200	128
MCH EW0928			08.5H0.12ML	1	200	128
HCG Z 092872.68	P 3E					127
HGH Z 092877.90	P 3E					161
HTR Z 092872.65	P 2E 87.45	S 3E				129
HLM Z 092863.58	P 2E					75
HAE Z 092870.50	P 3E					114
KWE Z 092855.62	P 1ID58.75	S 2E				23
KBI Z 092860.06	P 2EU					50
CWF Z 092862.83	P 2E 71.02	S 2E				67
CWF NS0928			7.0H0.18ML	1.0	200	67
CWF EW0928			8.5H0.15ML	1.0	200	67
WVR Z 092867.66	P 2ED79.33	S 3E				99
WLC Z 092868.91	P 2ED80.82	S 3E				107
WLC NS0928			4.5H0.11ML	1.0	200	107
WLC EW0928			5.6H0.13ML	1.0	200	107
WBR Z 092870.29	P 2ED					117
WFB Z 092872.43	P 2ED					131
YRH Z 092877.80	P 2E					166
WCB Z 092878.18	P 4E 95.47	S 3E				163
-1						
110689KEYWORTH+	KW 058	12.5	5.0JAR	LSTOKE-ON-TRENT,STAFFS		1
04759.95	386.53/ 347.79	4.0 1.1		53.027	-2.201	2
6 24 152 0.02	0.2 0.5 B A*C					3
KWE Z 004804.52	P 1IU					24
KBI Z 004809.04	P 2EU					52
CWF Z 004811.62	P 2ED20.16	S 3E				68
CWF NS0048			7.3H0.07ML	0.25	200	68
CWF EW0048			4.9H0.06ML	0.25	200	68
MCH Z 004821.20	P 3E 35.77	S 2E				127
MCH NS0048			8.5H0.19ML	0.25	200	127
MCH EW0048			5.7H0.17ML	0.25	200	127
WLC Z 004818.60	P 4 30.27	S 3E				106
WLC NS0048			5.8H0.08ML	0.25	200	106
WLC EW0048			4.1H0.13ML	0.25	200	106
-1						
110689LOWNET+	LN 648		5.0GAM	LROSEWELL,LOTHIAN		1

	213450.97	330.12/ 662.62	1.1 0.4		55.852	-3.116	2
13	2 106 0.06	0.3 0.2 B A*B	COALFIELD TYPE				3
EDI Z	213453.20	P 1IU54.97	S 2	7.8H0.29M		1.0 200	9
EDI NS	2134		2	5.2H0.18ML		1.0 200	9
EDI EW	2134		2	3.8H0.21ML		1.0 200	9
EBL Z	213453.37	P 0ID					10
EAU Z	213455.25	P 1ID58.50	S 2				21
ESY Z	213457.47	P 2E 61.66	S 3				32
EBH Z	213460.49	P 2E					51
RRD Z	213451.55	P 1ID52.06	S 3				2
RGH Z	213451.55	P 1ID					2
RCA Z	213451.60	P 0ID52.56	S 3				3
RCA NS	2134		3	7.5H0.11M		1.0 4	3
RCA EW	2134		3	4.1H0.10M		1.0 4	3
RCH Z	213451.65	P 0ID52.73	S 3				3
RCH NS	2134		3	6.1H0.21M		1.0 4	3
RCH EW	2134		3	7.1H0.36M		1.0 4	3
	-1						
120689LOWNET+	LN 648			5.0GAM	LGLLEN MORISTON,HIGHLAND		1
	192950.81	225.96/ 818.18	2.4 0.6		57.221	-4.883	2
15	40 122 0.29	0.9 1.3 C B*C					3
ELO Z	193009.24	P 1E 23.82	S 3	3.1H0.08M		0.25 200	110
EAB Z	193010.57	P 1E 24.93	S 3	3.2H0.12M		0.25 200	120
EDU Z	193012.38	P 2E					136
EBH Z	193013.22	P 2E 29.31	S 3				137
KPL Z	192959.61	P 2E 65.60	S 2				48
KPL NS	1929			3.3H0.13ML		0.25 200	48
KPL EW	1929			2.5H0.15ML		0.25 200	48
MDO Z	192957.92	P 3E 62.85	S 2				40
MVH Z	193006.42	P 3E 16.73	S 2				89
MCD Z	193007.90	P 3E 21.63	S 2				106
MCD NS	1930			1.5H0.11ML		0.25 200	106
MCD EW	1930			1.6H0.12ML		0.25 200	106
	-1						
140689KEYWORTH+	KW 058		12.5	5.0JAR	LSTOKE-ON-TRENT,STAFFS		1
	440 9.83	387.81/ 346.99	4.5 1.4		53.020	-2.182	2
10	23 151 0.17	1.0 2.1 C B*C					3
KWE Z	044014.25	P 2E 17.00	S 3E				23
KBI Z	044018.82	P 2EU					51
CWF Z	044021.31	P 3E 29.38	S 3E				67
CWF NS	0440			5.1H0.14ML		0.25 200	67
CWF EW	0440			4.8H0.16ML		0.25 200	67
MCH Z	044031.65	P 4 45.59	S 3E				127
MCH NS	0440			12.3H0.19ML		0.25 200	127
MCH EW	0440			7.4H0.18ML		0.25 200	127
WLC Z	044027.50	P 4 40.07	S 3E				107
WLC NS	0440			5.7H0.12ML		0.25 200	107
WLC EW	0440			7.1H0.22ML		0.25 200	107
WVR Z	044026.05	P 3E					99
WFB Z	044031.55	P 3E					130
YRH Z	044036.40	P 3E					166
	-1						
160689KEYWORTH	KW 059			5.0GAM/JARLW	MANSFIELD,NOTTS		1
	221039.37	443.07/ 362.79	0.2 0.5		53.160	-1.356	2
4	16 223 0.03	0.0 0.0 C A*D	COALFIELD TYPE				3
KBI Z	221042.90	P 3E					16
KWE Z	221046.38	P 2ED					36
CWF Z	221048.20	P 3E 54.78	S 3				47
CWF NS	2210		3	6.0H0.09ML		0.25 200	47
CWF EW	2210		3	4.5H0.07ML		0.25 200	47
	-1						
170689KEYWORTH+	KW 059		12.5	5.0JAR	LSTOKE-ON-TRENT,STAFFS		1
	2026 3.50	388.15/ 347.64	4.0 1.0		53.026	-2.177	2
10	23 151 0.07	0.5 0.9 B A*C					3
KWE Z	202607.81	P 3E 10.90	S 3E				23
KBI Z	202612.40	P 3E					50
CWF Z	202615.06	P 3E 23.18	S 3E				67
CWF NS	2026			5.1H0.08ML		0.25 200	67
CWF EW	2026			5.0H0.07ML		0.25 200	67
WLC Z	202621.28	P 3E 33.45	S 3E				108
WLC NS	2026			5.8H0.13ML		0.25 200	108
WLC EW	2026			6.6H0.11ML		0.25 200	108
WBR Z	202622.60	P 3E					117
WFB Z	202624.90	P 3E					131
YRH Z	202630.00	P 3E					166
	-1						
250689LOWNET	LN 650			5.0GAM	LLOCH EARN,CENTRAL		1
	103650.11	262.08/ 727.03	2.0-0.1		56.415	-4.236	2
5	26 245 0.28	0.4 0.2 C B*D	MAGNITUDE FROM VERTICALS				3
EAB Z	103655.12	P 2E 58.89	S 3	3.1H0.09ML		0.25 200	26
ELO Z	103656.11	P 1IU60.59	S 3	3.5H0.10ML		0.25 200	33
EBH Z	103659.50	P 2E					49
EDU Z	103663.50	P 2E					77

-1									
250689KEYWORTH+	KW 060		5.0GAM/JARLSTOKE-ON-TRENT,STAFFS		1				
23	537.09	389.78/ 347.33	6.5	1.0	53.023	-2.152	2		
5	21 299 0.06	2.2 1.5 C B*D					3		
KWE	Z 230541.10	P 2EU44.25	S	3			21		
KBI	Z 230545.63	P 2EU					49		
CWF	Z 230548.20	P 2E 56.00	S	3			65		
CWF	NS2305			3	5.6H0.10ML	0.25 200	65		
CWF	EW2305			3	6.1H0.09ML	0.25 200	65		
WLC	Z 230552.00	P 4					109		
WLC	NS2305				3.4H0.10ML	0.25 200	109		
WLC	EW2305				3.8H0.12ML	0.25 200	109		
-1									
250689KEYWORTH+	KW 060		5.0JAR/GAMLSTOKE-ON-TRENT,STAFFS		1				
23	4438.55	392.02/ 350.68	17.5	1.4	53.053	-2.119	2		
13	19 138 0.22	1.5 1.5 C B*C					3		
KWE	Z 234443.06	P 1ID46.30	S	3			19		
KBI	Z 234446.65	P 1IU					46		
CWF	Z 234449.19	P 0ID58.13	S	2			65		
CWF	NS2344			2	4.4H0.06ML	1.0 200	65		
CWF	EW2344			2	3.2H0.06ML	1.0 200	65		
KUF	Z 234460.48	P 4E					126		
YRE	Z 234462.79	P 3E 79.94	S	3E			155		
WCB	Z 234465.60	P 4E 83.05	S	3E			166		
WCB	NS2344				4.3H0.12ML	0.25 200	166		
WCB	EW2344				4.0H0.13ML	0.25 200	166		
WVR	Z 234455.11	P 2E					104		
WLC	Z 234456.38	P 3E 68.55	S	3E			112		
WLC	NS2344				9.3H0.12ML	0.25 200	112		
WLC	EW2344				11.7H0.12ML	0.25 200	112		
WBR	Z 234457.71	P 2E					121		
WFB	Z 234459.84	P 3E					136		
-1									
270689LOWNET+	LN 650		5.0GAM LLOCH LOCHY,HIGHLAND		1				
1	0 0.61	227.85/ 788.34	6.5	1.2	56.954	-4.831	2		
23	46 106 0.26	0.7 2.8 C B*C					3		
ELO	Z 010014.79	P 0IU25.28	S	2			87		
EAB	Z 010015.92	P 1I 25.71	S	3			91		
EBH	Z 010019.30	P 1E 32.30	S	3			113		
EDU	Z 010020.30	P 1IU34.52	S	3			120		
EDI	Z 010026.60	P 4E 43.19	S	3			153		
EDI	NS0100			3	4.4H0.07ML	0.25 200	153		
EDI	EW0100			3	4.0H0.09ML	0.25 200	153		
KSB	Z 010008.26	P 0IU14.13	S	3			46		
KAR	Z 010010.97	P 0IU18.43	S	2			61		
KAC	Z 010011.28	P 2E					67		
KPL	Z 010011.63	P 0IU20.46	S	2			66		
KPL	NS0100			2	3.2H0.06ML	1.0 200	66		
KPL	EW0100			2	3.7H0.07ML	1.0 200	66		
MDO	Z 010011.10	P 1EU18.20	S	3E			61		
MME	Z 010020.21	P 1E 33.80	S	3E			120		
MCD	Z 010020.40	P 1ED33.70	S	3E			118		
MCD	NS0100				07.5H0.10ML	0.25 200	118		
MCD	EW0100				08.0H0.13ML	0.25 200	118		
MVH	Z 0100	33.20	S	3E			115		
-1									
270689LOWNET	LN650		5.0GAM LBLAIRHALL,FIFE		1				
13	4136.08	298.07/ 691.86	2.5	1.4	56.109	-3.639	2		
6	18 229 0.04	1.2 0.7 C B*D COALFIELD TYPE					3		
EBH	Z 134139.51	P 0IU42.23	S	3			18		
EAU	Z 134141.92	P 1E 46.41	S	3			32		
EDI	Z 134142.61	P 2E 47.36	S	3	2.4H0.30M	1.0 200	35		
EDI	NS1341			3	4.5H0.38ML	1.0 200	35		
EDI	EW1341			3	3.8H0.40ML	1.0 200	35		
ELO	Z 134143.50	P 2E 49.38	S	3			41		
EAB	Z 134144.41	P 2E 50.02	S	3			45		
-1									
020789N WALES			5.0RITCHIELLLEYN,GWYNEDD		1				
15	2930.67	238.01/ 343.74	22.8	0.6	52.966	-4.412	2		
10	2 108 0.07	0.5 1.0 B A*B LLEYN AFTERSHOCK					3		
WLC	Z 152938.49	P 2E 43.7	S	3			43		
WLC	NS1529				7.5 H0.1 ML	0.25 200	43		
WLC	EW1529				6.6 H0.09ML	0.25 200	43		
YRH	Z 152935.7	P 2E					21		
WBR	Z 1529	42.31	S	2			37		
WST	Z 152936.6	P 1IU40.70	S	2			28		
WFB	Z 1529	43.30	S	2			40		
YRE	Z 152934.29	P 2E					2		
YLL	Z 152936.17	P 1IU39.98	S	2			25		
-1									
020789N WALES			5.0RITCHIELBETHESDA,GWYNEDD		1				
17	131.07	269.25/ 364.08	12.8	0.3	53.158	-3.956	2		
13	12 130 0.09	0.5 0.8 B A*B					3		

WLC Z 170135.2	P 1ID38.1	S 2						22
WBR Z 170137.3	P 3E 41.45	S 2						34
WST Z 170135.1	P 2E 38.0	S 3						20
WLC NS1701			5.9 H0.08ML		1.0	200		22
WLC EW1701			2.7 H0.11ML		1.0	200		22
WFB Z 170140.00	P 3E 46.50	S 3						53
WPM Z 170134.05	P 2E							12
WLF Z 170136.82	P 3E 41.00	S 3						33
YLL Z 170134.33	P 3E 36.00	S 3						15
-1								
040789 PAISLEY+	PA 267	02	12.5	5.0PB/DWR	LSADDELL, KINTYRE			1
	17 0 3.48	171.78/ 635.60	2.1 1.7		55.561	-5.619		2
	12 77 327 0.37	11.9 8.5 D D*D						3
PGB Z 170016.59	P 1ID					0.25		77
PGB NS1700		26.13	S 2EU6.5 H0.13ML		1.0	200		77
PGB EW1700		25.89	S 2EU7.0 H0.12ML		1.0	200		77
PCA Z170018.10	P 1ED							
PCO Z 170021.57	P 2ED					0.25	200	107
EAB Z 170020.88	P 2E 34.64	S 3						106
EAU Z 170026.59	P 2E 43.72	S 3						140
EBH Z 170028.49	P 2ED45.42	S 3						153
EDI Z 170029.05	P 3E 48.57	S 2	2.2H0.24M		0.25	200		158
EDI NS1700			3 5.5H0.16ML		0.25	200		158
EDI EW1700			3 5.6H0.19ML		0.25	200		158
ELO Z 170029.20	P 4E 49.20	S 3						156
EBL Z 170030.10	P 3E							164
-1								
050789PAISLEY	PA 268	01	12.5	5.0PACB	LMILNGAVIE, STRATHCLYDE			1
	43227.38	251.04/ 677.26	1.1 0.0		55.965	-4.387		2
	4 18 203 0.00	0.0 0.0 C A*D						3
PGB Z 043231.19	P 1EU33.95		S 2ID					18
PGB NS0432				08.5H0.1 ML		0.25	200	18
PGB EW0432				12.5H0.1 ML		0.25	200	18
PMS Z 043232.50	P 1EU							26
PCO Z 043231.19	P 1IU							18
-1								
060789PAISLEY+	PA 268	12.5		5.0PB/DWR	LCLAONIG, KINTYRE			1
	43017.89	184.32/ 659.81	3.9 1.2		55.783	-5.440		2
	10 44 320 0.18	9.0 19.5 D D*D						3
PGB Z 043028.3	P 1EU36.2		S 1IU					60
PGB NS0430				21.0H0.08ML		0.25	200	60
PGB EW0430				14.5H0.08ML		0.25	200	60
PCA Z 043030.64	P 2ED							75
PMS Z 043025.80	P 1ED31.32	S 2ED						44
PCO Z 043032.44	P 2ED							87
EAB Z 043032.20	P 3E 41.72	S 3E						82
EAU Z 043039.10	P 4E 54.45	S 3E						125
EBH Z 043039.55	P 3E 55.13	S 3E						131
ELO Z 043040.48	P 3E 55.90	S 3E						132
EDI Z 043041.31	P 3E 59.00	S 2E	1.5H0.20M		0.25	200		142
EDI NS0430			2E 3.2H0.13ML		0.25	200		142
EDI EW0430			2E 1.5H0.19ML		0.25	200		142
-1								
060789PAISLEY+	PA 268		12.5	5.0PB/DWR	LCLAONIG, KINTYRE			1
	435 9.03	183.78/ 652.95	5.0 1.2		55.722	-5.443		2
	6 46 321 0.12	17.8 39.4 D D*D						3
PGB Z 043519.53	P 2ED27.25		S 2ED					61
PGB NS0435				18.0H0.08ML		0.25	200	61
PGB EW0435				12.5H0.08ML		0.25	200	61
PCA Z 043521.75	P 2ED							75
PMS Z 043516.89	P 2ED							46
EAB Z 043523.50	P 2E 33.88	S 3E						86
EAU Z 043530.72	P 2E 45.83	S 3E						126
EBH Z 043531.81	P 3E 47.80	S 3E						134
ELO Z 043531.92	P 3E 47.42	S 3E						136
EDI Z 043533.39	P 3E 50.71	S 3E						143
EDI NS0435			3E 2.5H0.18ML		0.25	200		143
EDI EW0435			3E 1.8H0.21ML		0.25	200		143
-1								
080789 LOWNET	LN 652	1413	12.5	5.0DWR	LTHORNHILL, CENTRAL			1
	203521.48	263.65/ 697.96	12.2 0.7		56.155	-4.195		2
	8 10 166 0.31	3.6 6.0 C C*C						3
EAB Z 203524.60	P 1ID26.11		S 1ED			200		10
EBH Z 203528.99	P 2E 34.93		S 2E					44
EAU Z 203530.49	P 3E 38.51		S 3E					58
EDI Z 203532.55	P 3E 41.58		S 2E	1.2H0.12M		0.25	200	68
EDI NS2035	E		E	2.5H0.19ML		0.25	200	68
EDI EW2035	E		E	2.3H0.11ML		0.25	200	68
-1								
110789 LOWNET+	LN 652	528	12.5	5.0DWR	LMORVERN, HIGHLAND			1
	121331.32	180.42/ 753.21	0.7 2.1		56.619	-5.579		2
	10 37 202 0.34	5.0 3.7 D C*D						3
EAB Z 121346.54	P 2E 59.60		S 3E					90

ELO Z 121350.99	P 2E 64.91	S 3E				116
EBH Z 121354.04	P 2E 70.30	S 3E				134
EAU Z 121357.40	P 2E 75.90	S 3E				158
EDU Z 121357.91	P 2E					158
EDI Z 121358.6	P 4E 77.68	S 3E	4.5H0.21M	0.25	200	167
EDI NS1213	E	E	11.3H0.23ML	0.25	200	167
EDI EW1213	E	E	8.6H0.22ML	0.25	200	167
EBL Z 121401.41	P 3E					183
ESY Z 121403.20	P 3E					200
KAR Z 121338.17	P 2E					37
KSB Z 121343.26	P 1IU51.32	S 3				66
KPL Z 121345.47	P 2E 55.94	S 3				80
KPL NS1213		3	8.7H0.18ML	1.0	200	80
KPL EW1213		3	14.1H0.13ML	1.0	200	80
KSK Z 121351.78	P 3E					116
-1						
140789KEYWORTH	KW 063	12.5	5.0GAM	LKIRKBY-IN-ASHFLD,NOTTS1		1
222533.39	451.11/ 352.89	2.3 0.6		53.071 -1.237		2
8 28 149 0.22	1.4 2.3 C B*C					3
KBI Z 222538.18	P 2E 42.80	S 3				28
CWF Z 222540.30	P 0ID44.82	S 3				37
CWF NS2225		3	8.0H0.09ML	0.25	200	37
CWF EW2225		3	9.6H0.09ML	0.25	200	37
KWE Z 222540.89	P 1IU46.50	S 4				41
KSY Z 222541.69	P 2ED47.17	S 3				45
KUF Z 222546.69	P 2E					76
-1						
160789 LOWNET+	LN 653 1511	12.5	5.0DWR	LKILLIN,CENTRAL		1
31026.52	242.76/ 733.23	0.5 0.8		56.465 -4.553		2
4 34 292 0.03	0.0 0.0 C A*D					3
EAB Z 031033.02	P 3E 37.80	S 2E				34
ELO Z 031036.20	P 3E 43.09	S 3E				52
EBH Z 031039.63	P 2E 48.90	S 3E				69
EDU Z 031043.59	P 3E 56.50	S 3E				95
EDI Z 031043.9	P 4E 58.33	S 3E	1.3H0.10M	0.25	200	104
EDI NS0310	E	E	2.4H0.12ML	0.25	200	104
EDI EW0310	E	E	2.5H0.20ML	0.25	200	104
PCO Z 031037.20	P 3E 45.71	S 2E				60
PMS Z 031039.10	P 2E 49.82	S 3E				70
PGB Z 031040.35	P 2E 51.00	S 3E	1.6H0.10M	0.25	200	73
PGB NS0310	E	E	1.8H0.14ML	0.25	200	73
PGB EW0310	E 51.00	S ED	2.1H0.15ML	0.25	200	73
-1						
160789 LOWNET	LN 653 1772	12.5	5.0DWR	LROSEWELL,LOTHIAN		1
22 212.94	329.66/ 662.47	0.2 0.7		55.850 -3.124		2
9 9 119 0.05	0.3 0.2 B A*B COALFIELD TYPE					3
EDI Z 220215.19	P 1IU16.85	S 2E	11.3H0.29M	1.0	200	9
EDI NS2202	IU	ED	5.0H0.60ML	1.0	200	9
EDI EW2202	ED	EU	5.5H0.29ML	1.0	200	9
EBL Z 220215.40	P 1ID17.29	S 2EU				10
EAU Z 220217.30	P 2E 20.59	S 2E				21
ESY Z 220219.33	P 3E					33
EBH Z 220222.50	P 2EU					50
EDU Z 220226.80	P 3E					78
-1						
180789KEYWORTH	KW063		5.0GAM	LLINCOLN,LINCOLNSHIRE		1
722 8.82	494.43/ 361.73	1.0 1.1		53.144 -0.588		2
4 64 306 0.16	0.0 0.0 C B*D					3
KBI Z 072220.16	P 3E					64
CWF Z 072220.56	P 3ED31.10	S 3				66
CWF NS0722		3	7.3H0.12ML	0.25	200	66
CWF EW0722		3	9.5H0.10ML	0.25	200	66
KWE Z 072224.35	P 3E					85
-1						
180789 CORNWALL			5.0	LST MAWES,CORNWALL		1
95021.58	187.76/ 37.10	10.0 0.5		50.195 -4.974		2
13 11 310 0.03	0.4 0.5 C A*D 4 KM NE OF ST MAWES					3
CBW Z 095024.19	P 1IU					11
CST Z 095024.50	P 1IU					14
CR2 Z 095024.62	P 1IU26.90	S 1				14
CR2 NS0950			3.3 H0.03ML	10.0	200	14
CR2 EW0950			3.3 H0.03ML	10.0	200	14
CCO Z 095025.05	P 1IU					17
CCA Z 095025.17	P 1IU					18
CGH Z 095025.63	P 2IU					21
CPZ Z 095029.22	P 4IU					44
CTR Z 095024.54	P 1 26.85	S 1				14
CME Z 095024.80	P 1 27.20	S 1				16
CRA Z 095024.85	P 1 27.44	S 1				16
-1						
200789KEYWORTH+	KW 063	12.5	5.0GAM/JARLRAINWORTH,NOTTS			1
1 548.50	457.62/ 358.03	0.4 1.6		53.116 -1.139		2
6 30 214 0.19	3.3 2.7 D C*D COALFIELD TYPE					3

KBI Z 010554.34	P 1ID								30
CWF Z 010556.66	P 1ID62.74	S 3							44
CWF NS0105					8.0H0.08ML	0.25	200		44
CWF EW0105					7.1H0.12ML	0.25	200		44
HLM Z 010572.23	P 4E								136
HAE Z 010574.81	P 4E								153
MCH Z 010578.00	P 3E 99.27	S 3							177
MCH NS0105					10.5H0.25ML	0.25	200		177
MCH EW0105					5.5H0.23ML	0.25	200		177
HPK Z 010565.96	P 3E 77.70	S 3E							99
HPK NS0105					10.0H0.17ML	1.0	200		99
HPK EW0105					6.1H0.18ML	1.0	200		99
KWE Z 010557.75	P 1ID								48
-1									
200789N WALES					5.0RITCHIELAMLWCH, GWYNEDD				1
1012 7.95	248.69/ 399.74	11.3-0.6				53.472	-4.280		2
5 9 311 0.00	0.1 0.1 C A*D								3
WCB Z 101211.90	P 2E 14.60	S 2							21
WCB NS1012					3.0 H0.06ML	0.25	200		21
WCB EW1012					4.0 H0.06ML	0.25	200		21
WLF Z 1012	14.90	S 3							22
WME Z 101210.35	P 2E 11.97	S 2							9
-1									
220789KEYWORTH+	KW 064	12.5			5.0JAR				1
02547.21	464.56/ 361.75	0.5 1.7				53.149	-1.035		2
7 35 225 0.14	1.6 1.4 C B*D	COALFIELD TYPE							3
KBI Z 002553.89	P 2E 58.73	S 3E							35
CWF Z 002556.27	P 2E 63.17	S 3E							49
CWF NS0025					2.0H0.82ML	0.25	200		49
CWF EW0025					3.4H0.80ML	0.25	200		49
KWE Z 002557.70	P 2E								56
WLC Z 002619.31	P 4								185
WLC NS0025					5.2H0.25ML	0.25	200		185
WLC EW0025					4.0H0.15ML	0.25	200		185
HPK Z 002564.04	P 3E 76.21	S 3E							98
HPK NS0025					11.7H0.19ML	1.0	200		98
HPK EW0025					8.0H0.20ML	1.0	200		98
-1									
220789 CORNWALL					5.0				1
203143.78	153.60/ 29.60	8.2 0.2				50.115	-5.447		2
7 11 186 0.06	1.3 3.8 C B*D								3
CGH Z 203148.01	P 1								21
CCA Z 203147.45	P 1								18
CBW Z 203148.27	P 1								24
CPZ Z 203146.31	P 1 48.22	S 2							11
CR2 Z 2031	50.70	S 2							21
CST Z 2031	51.21	S 2							22
CR2 NS2031					5.6 H0.05ML	1.0	200		21
CR2 EW2031					7.0 H0.06ML	1.0	200		21
-1									
240789HEREFORD	HF530				5.0NSH				1
12 516.39	302.16/ 178.63	0.3 1.6				51.498	-3.410		2
6 62 341 0.18	18.4 92.6 D D*D								3
MCH Z 120527.56	P 2ED34.91	S 1I							63
MCH NS1205					16.0H0.28ML	0.25	200		63
MCH EW1205					06.5H0.25ML	0.25	200		63
HTR Z 120528.32	P 2E 35.92	S 2E							65
HLM Z 120538.36	P 3E 54.08	S 3E							119
-1									
250789N WALES					5.0RITCHELLEYN, GWYNEDD				1
184933.13	238.72/ 343.39	22.6 0.9				52.963	-4.402		2
13 3 94 0.07	0.4 0.8 B A*B	LLEYN AFTERSHOCK							3
WLC Z 184940.8	P 2E 46.20	S 2							42
WLC NS1849					5.1 H0.07ML	1.0	200		42
WLC EW1849					4.1 H0.09ML	1.0	200		42
YRH Z 184938.15	P 1IU								21
WBR Z 184940.00	P 3E 44.70	S 2							36
WST Z 184938.95	P 2E 42.95	S 1							28
WFB Z 184940.50	P 3E 45.22	S 3							40
YRE Z 184936.80	P 1ID								3
WPM Z 184941.45	P 2E								47
YLL Z 184938.50	P 2E 42.22	S 1							25
-1									
270789KEYWORTH+	KW 064	12.5			5.0JAR/GAMLSTAVELEY, DERBYSHIRE				1
0 754.86	446.29/ 376.82	4.9 0.7				53.286	-1.306		2
5 15 283 0.16	6.0 5.6 D D*D	COALFIELD TYPE							3
KBI Z 000757.90	P 0ID								15
KWE Z 000763.11	P 2E 69.27	S 3							47
CWF Z 000765.70	P 3E 72.72	S 3							61
CWF NS0007					3 2.8H0.11ML	0.25	200		61
CWF EW0007					3 2.6H0.14ML	0.25	200		61
-1									
270789KYLE	KY 418				5.0DH				1
									LPORT APPIN, STRATHCLYDE1

	10	234.62	192.90/	742.73	5.9	1.0		56.531	-5.368	2	
7 52	320	0.69	14.6	24.7	D	D*D 3	KM SE OF PORT APPIN			3	
KPL Z	100250.00				P	1ED60.03	S 2EU			92	
KPL NS	1002						02.4H0.09ML	1.0	200	92	
KPL EW	1002						03.6H0.10ML	1.0	200	92	
KAR Z	100242.88				P	2ED				52	
KSB Z	100246.60				P	1IU				76	
KAC Z	100253.38				P	2EU66.07	S 3	02.0H0.12ML	1.0	200	108
KSK Z	100256.60				P	2EU				132	
	-1										
270789	HEREFORD	HF 530					5.0NSH	LKINGTON,HER & WORC		1	
	115321.13		326.94/	258.83	1.1	0.0		52.222	-3.070	2	
5 21	243	0.02	0.5	0.5	C	A*D				3	
MCH Z	115326.20				P	1IU29.84	S 2I			26	
MCH NS	1153						05.0H0.20ML	0.25	200	26	
MCH EW	1153						03.0H0.11ML	0.25	200	26	
HCG Z	115328.90				P	3E				42	
HTR Z	115325.40				P	1ID28.58	S 2I			21	
	-1										
270789	HEREFORD	HF 530					5.0NSH	LKINGTON,HER & WORC		1	
	115329.40		326.07/	257.91	0.4	-0.1		52.214	-3.082	2	
5 20	239	0.01	0.2	0.3	C	A*D				3	
MCH Z	115334.46				P	1ID38.12	S 2I			25	
MCH NS	1153						04.0H0.08ML	0.25	200	25	
MCH EW	1153						04.0H0.15ML	0.25	200	25	
HCG Z	115337.20				P	3E				41	
HTR Z	115333.59				P	1ID36.68	S 2I			20	
	-1										
270789	HEREFORD	HF 530					5.0NSH	LKINGTON,HER & WORC		1	
	115358.94		326.19/	257.91	0.0	0.4		52.214	-3.080	2	
5 20	240	0.01	0.2	0.3	C	A*D				3	
MCH Z	115404.05				P	1I 07.80	S 1I			25	
MCH NS	1154						08.5H0.15ML	0.25	200	25	
MCH EW	1154						11.0H0.12ML	0.25	200	25	
HCG Z	115406.85				P	3E				41	
HTR Z	115403.25				P	1ID06.35	S 1I			20	
	-1										
280789	HEREFORD	HF 530					5.0NSH/DH	LKINGTON,HER & WORC		1	
	115942.66		326.40/	257.99	0.4	0.2		52.215	-3.077	2	
5 20	241	0.00	0.0	0.0	C	A*D				3	
MCH Z	115947.70				P	2I 51.38	S 2I			25	
MCH NS	1159						06.5H0.20ML	0.25	200	25	
MCH EW	1159						04.5H0.16ML	0.25	200	25	
HCG Z	115950.50				P	3E				41	
HTR Z	115946.90				P	1ID50.00	S 2I			20	
	-1										
280789	WALES						5.0RITCHIELLLEYN,GWYNEDD			1	
	135816.50		239.41/	342.91	24.1	2.1		52.959	-4.391	2	
18 3	88	0.09	0.4	0.9	A	A*A LLEYN AFTERSHOCK				3	
WCB Z	135825.26				P	1IU31.05	S 2			48	
WCB NS	1358						4.0 H0.07ML	10.0	200	48	
WCB EW	1358						4.1 H0.15ML	10.0	200	48	
YRC Z	135823.28				P	1ID				35	
YRE Z	135820.39				P	1ID				3	
WPM Z	135824.99				P	1IU				47	
WLF Z	135823.55				P	1IU28.3	S 2			37	
WME Z	135825.12				P	1IU31.21	S 3			49	
YLL Z	135822.05				P	1IU				25	
WLC Z	135824.3				P	1IU29.7	S 2			41	
WLC SM	1358						12.0H0.09ML	4.0	200	41	
YRH Z	135821.7				P	1IU				21	
WVR Z	135826.2				P	1IU				56	
WBR Z	135823.4				P	1IU27.85	S 3			35	
WST Z	135822.4				P	1IU				27	
WFB Z	135823.9				P	2E				39	
	-1										
280789	WALES						5.0RITCHIELLLEYN,GWYNEDD			1	
	135931.81		238.72/	342.88	24.5	1.3		52.959	-4.401	2	
17 3	119	0.09	0.4	0.8	B	A*B LLEYN AFTERSHOCK				3	
WCB Z	135940.55				P	3E 46.42	S 2			48	
WCB NS	1359						4.0 H0.06ML	1.0	200	48	
WCB EW	1359						4.0 H0.12ML	1.0	200	48	
YRC Z	135938.62				P	1IU43.3	S 2			35	
YRE Z	135935.73				P	1ID				3	
WPM Z	135940.34				P	1IU46.49	S 2			47	
WLF Z	135938.92				P	2E 43.61	S 1			37	
WME Z	135940.6				P	2E				49	
YLL Z	135937.4				P	1IU				26	
WLC Z	135939.65				P	1IU45.03	S 1			42	
WLC NS	1359						6.5 H0.11ML	2.5	200	42	
WLC EW	1359						5.9 H0.11ML	2.5	200	42	
YRH Z	135937.04				P	1IU40.52	S 1			21	
WBR Z	135938.72				P	2E				36	

WST Z 135937.7	P 3E							28
-1								
280789KEYWORTH	KW 065				5.0GAM/JARLMANSFIELD,NOTTS			1
231233.47	456.98/ 364.62	0.9	0.8		53.175	-1.147		2
4 27 263 0.15	0.0	0.0	C B*D	COALFIELD TYPE				3
KBI Z 231238.71	P 1IU							27
CWF Z 231242.75	P 2E 49.20			S 3				50
CWF NS2312				3	6.6H0.10ML	0.25	200	50
CWF EW2312				3	8.1H0.10ML	0.25	200	50
KWE Z 231243.00	P 3E 49.21			S 4				50
-1								
310789N WALES					5.0RITCHIELGWYNFYNYDD,GWYNEDD			1
162556.56	278.49/ 328.10	6.0	0.3		52.836	-3.804		2
7 6 115 0.08	0.6	1.4	B A*B					3
WLC Z 162559.79	P 2E 61.90			S 1				18
WLC NS1625					3.3 H0.12ML	1.0	200	18
WLC EW1625					4.4 H0.15ML	1.0	200	18
WVR Z 162559.30	P 2E 60.79			S 3				14
WBR Z 162558.20	P 1ID 59.00			S 3				7
WFB Z 162560.60	P 1IU							23
-1								
010889KEYWORTH	KW 065			12.5	5.0GAM/JARLWARSOP,NOTTINGHAMSHIRE1			1
23554.35	460.41/ 367.20	1.7	0.8		53.198	-1.096		2
4 30 273 0.05	0.0	0.0	C A*D	COALFIELD TYPE				3
KBI Z 023559.90	P 3E							30
CWF Z 023563.90	P 3E 70.90			S 3				53
CWF NS0235					6.1H0.09ML	0.25	200	53
CWF EW0235					8.4H0.09ML	0.25	200	53
KWE Z 023564.12	P 3E							54
-1								
010889 CORNWALL					5.0ABW	LSCILLY ISLES,CORNWALL		1
223124.53	108.69/ -28.06	5.0	0.9		49.577	-6.030		2
6 72 340 0.03	33.0	74.1	D D*D	SE OF SCILLY ISLES				3
CPZ Z 223136.70	P 1							72
CCO Z 223138.92	P 1							86
CR2 Z 223139.51	P 1 50.48			S 2				90
CR2 NS2231					8.5 H0.04ML	0.25	200	90
CR2 EW2231					10.1H0.04ML	0.25	200	90
CBW Z 223139.70	P 1							92
CST Z 223140.00	P 1							93
-1								
020889KEYWORTH+	KW 065			12.5	5.0JAR	LPRESTWICH,MANCHESTER		1
1 113.51	380.58/ 404.53	1.1	1.5		2+ 53.537	-2.293		2
19 53 78 0.40	1.0	1.5	D C*D	COALFIELD TYPE,FELT	WHITEFIELD			3
KBI Z 010123.90	P 3E							60
KWE Z 010125.15	P 3E							65
CWF Z 010132.25	P 3E 46.53			S 3E				111
CWF NS0101					7.2H0.19ML	0.25	200	111
CWF EW0101					6.4H0.25ML	0.25	200	111
WLC Z 010132.95	P 3E 46.47			S 3E				116
WLC NS0101					6.3H0.30ML	0.25	200	116
WLC EW0101					8.0H0.27ML	0.25	200	116
WFB Z 010137.97	P 3E							151
WPM Z 010132.49	P 3E							112
YLL Z 010135.10	P 3E 51.22			S 3E				133
WCB Z 010137.70	P 4 56.05			S 3E				151
WCB NS0101					1.7H0.23ML	0.25	200	151
WCB EW0101					1.9H0.21ML	0.25	200	151
YRE Z 010138.29	P 3E 57.00			S 3E				155
LBO Z 010123.40	P 3E 29.80			S 3E				53
LMI Z 010131.30	P 3E 44.07			S 3E				101
LMI NS0101					5.5H0.19ML	0.25	200	101
LMI EW0101					5.7H0.19ML	0.25	200	101
HPK Z 010124.66	P 3E 33.13			S 3E				64
HPK NS0101					8.1H0.17ML	1.0	200	64
HPK EW0101					4.7H0.19ML	1.0	200	64
-1								
020889 LOWNET	LN 656	172		12.5	5.0DWR	LGLENDARUEL,STRATHCLYDE1		1
259 2.55	200.48/ 684.92	0.0	0.5		56.016	-5.201		2
5 57 351 0.32	45.0	34.4	D D*D					3
EAB Z 025913.27	P 3E 20.37			S 3E	1.2H0.09ML	0.25	200	57
ELO Z 025920.37	P 2EU33.95			S 3E	1.6H0.17ML	0.25	200	105
EDU Z 025927.77	P 3E							148
-1								
040889LANCS+	LA 003			12.5	5.0JAR	LCASTLETON,DERBYSHIRE		1
42415.80	412.20/ 383.55	13.4	1.6		53.348	-1.817		2
12 22 132 0.13	0.8	1.5	B A*B					3
LBO Z 042430.15	P 2E							86
LCK Z 042436.87	P 3E							132
LMI Z 042438.06	P 3E 52.87			S 3E				138
LMI NS0424					9.0H0.18ML	0.25	195	138
LMI EW0424					5.9H0.14ML	0.25	195	138
KBI Z 042420.44	P 0IU							22

KWE Z 042422.43	P 2ED								37
CWF Z 042428.29	P 2E 37.40			S 3E					76
CWF NS0424					9.1H0.07ML		1.0 200		76
CWF EW0424					8.9H0.09ML		1.0 200		76
KSY Z 042431.25	P 3E 42.14			S 3E					93
HPK Z 042427.44	P 1ID35.61			S 2E					69
HPK NS0424					9.8H0.14M		2.5 200		69
HPK EW0424					10.7H0.13M		2.5 200		69
-1									
040889N WALES					5.0RITCHIELLLEYN,GWYNEDD				1
85611.15	238.25/ 344.44	24.2 0.7					52.973 -4.409		2
10 1 113 0.06	0.6 0.8 B A*B	LLEYN AFTERSHOCK							3
WLC Z 085619.0	P 2E 24.39			S 2					42
WLC NS0856					8.2 H0.17ML		0.25 200		42
WLC EW0856					5.0 H0.10ML		0.25 200		42
YRH Z 085616.45	P 1IU19.94			S 1					21
WBR Z 085618.95	P 3E 22.75			S 3					37
WST Z 085617.18	P 2E 21.22			S 2					28
YLL Z 085616.70	P 2E 20.58			S 1					25
YRE Z 085615.00	P 1ID								1
-1									
040889 LOWNET+	LN 656 1107	12.5			5.0DWR		LTYNDRUM,CENTRAL		1
225556.78	231.63/ 725.43	2.1 1.0					56.391 -4.728		2
10 33 261 0.31	3.5 2.8 D C*D								3
EAB Z 225602.30	P 3E 07.02			S 3E			0.25 200		33
PMS Z 225607.26	P 2E 15.11			S 2E					61
PCO Z 225607.45	P 2E 15.19			S 2E					60
ELO Z 225607.71	P 2EU15.93			S 3E					63
PGB Z 225609.29	P 3E 18.97			S 3E	1.2H0.10M		0.25 200		67
PGB NS2256	E				E 2.8H0.18ML		0.25 200		67
PGB EW2256	E				E 1.4H0.18ML		0.25 200		67
EBH Z 225610.48	P 3E								77
EDI Z 225612.70	P 4E 29.20			S 2E	1.2H0.20M		0.25 200		109
EDI NS2256	E				E 3.2H0.19ML		0.25 200		109
EDI EW2256	E				E 3.3H0.20ML		0.25 200		109
EAU Z 225613.30	P 3E								100
EDU Z 225614.80	P 3E								107
-1									
050889KEYWORTH	KW 066	12.5			5.0GAM/JARLWARSOP,NOTTINGHAMSHIRE1				1
419 4.06	461.67/ 366.80	1.0 0.9					53.194 -1.077		2
4 31 274 0.17	0.0 0.0 C B*D	COALFIELD TYPE							3
KBI Z 041909.80	P 3E								31
KWE Z 041914.28	P 3E								55
CWF Z 041913.83	P 3E 20.80			S 3E					53
CWF NS0419					6.2H0.11ML		0.25 200		53
CWF EW0419					8.1H0.10ML		0.25 200		53
-1									
050889HEREFORD+	HF 513				5.0NSH		LBRIDGEGWATER,SOMERSET		1
5 0 7.90	303.69/ 139.37	5.0 1.3					51.145 -3.377		2
9 68 165 0.15	1.2 3.8 C B*D								3
MCH Z 050024.16	P 3E 36.20			S 1I					98
MCH NS0500					13.5H0.08ML		0.25 200		98
MCH EW0500					08.5H0.08ML		0.25 200		98
HAE Z 050026.5	P 2E 40.40			S 4I					115
HCG Z 050030.20	P 3E 47.18			S 4E					132
HGH Z 050019.30	P 2E								68
HTR Z 050025.55	P 2E								104
DYA Z 050022.80	P 1 33.05			S 2					88
DCO Z 050024.25	P 1								98
HTL Z 050021.20	P 1								79
-1									
100889KEYWORTH	KW 066	12.5			5.0GAM/JARLWARSOP,NOTTINGHAMSHIRE1				1
1935 0.60	456.73/ 365.66	2.6 1.0					53.185 -1.151		2
4 26 265 0.09	0.0 0.0 C A*D	COALFIELD TYPE							3
KBI Z 193505.45	P 2EU								26
CWF Z 193509.68	P 3ED16.25			S 3E					51
CWF NS1935					10.0H0.08ML		0.25 200		51
CWF EW1935					12.1H0.10ML		0.25 200		51
KWE Z 193509.67	P 3E								50
-1									
110889 LOWNET	LN 657 728	12.5			5.0DWR		LCLACKMANNAN,CENTRAL		1
112135.12	290.67/ 691.69	1.3 1.3					4+ 56.106 -3.758		2
12 22 137 0.09	0.3 0.5 B A*C	COALFIELD TYPE,FELT					CLACKMANNAN		3
EBH Z 112139.62	P 1ID43.04			S 3E			0.25 200		22
EAU Z 112141.61	P 2EU46.45			S 3E					35
EAB Z 112142.20	P 2EU47.29			S 3E					37
ELO Z 112142.72	P 3E 48.11			S 3E					41
EDI Z 112142.80	P 2ED48.50			S 2E	8.1H0.26M		0.25 200		41
EDI NS1121	E				ED12.1H0.31ML		0.25 200		41
EDI EW1121	E				ED15.1H0.22ML		0.25 200		41
EDU Z 112146.80	P 3E 55.78			S 3E					67
-1									
120889KEYWORTH	KW 067	12.5			5.0GAM/JARLMANSFIELD,NOTTS				1

	135847.25	457.81/ 364.36	0.9 0.9		53.173	-1.135	2
4 28 264 0.22	0.0	0.0 C B*D	COALFIELD TYPE				3
KBI Z 135852.58		P 2EU					28
CWF Z 135856.49		P 3E 63.00	S 3				50
CWF NS1358				8.5H0.11ML	0.25 200		50
CWF EW1358				9.4H0.10ML	0.25 200		50
KWE Z 135857.00		P 3EU					50
-1							
130889 LOWNET	LN 657	1410	12.5	5.0DWR	LCOLONSAY, STRATHCLYDE		1
	1250 2.30	127.80/ 706.89	1.0 1.2		56.177	-6.387	2
6127 349 0.25	2.4	1.2 C B*D					3
EAB Z 125023.20		P 2E 38.75	S 3E	3.5H0.10ML	0.25 200		127
ELO Z 125029.50		P 2E 49.41	S 3E	3.5H0.15ML	0.25 200		169
EBH Z 125031.28		P 3E 52.52	S 3E	1.2H0.21ML	0.25 200		179
-1							
130889N WALES				5.0RITCHIELLLEYN, GWYNEDD			1
	18 253.64	239.17/ 342.18	23.8 1.6		52.953	-4.394	2
20 4 97 0.07	0.2	0.6 B A*B	LLEYN AFTERSHOCK				3
WLC Z 180261.43		P 1IU66.71	S 2				42
WLC NS1802				19.5H0.15ML	2.5 200		42
WLC EW1802				13.4H0.10ML	2.5 200		42
YRH Z 180258.74		P 1IU					21
WVR Z 180263.44		P 2E					56
WBR Z 180260.34		P 3E					35
WST Z 180259.49		P 1IU63.41	S 2				27
WFB Z 180260.82		P 2E 65.90	S 2				38
WCB Z 180262.42		P 3E 68.31	S 2				48
WCB NS1802				5.0 H0.06ML	1.0 200		48
WCB EW1802				9.6 H0.09ML	1.0 200		48
YRC Z 180260.49		P 1ID65.19	S 2				35
YRE Z 180257.50		P 1ID					4
WPM Z 180262.19		P 1IU					47
WLF Z 180260.72		P 2E 65.56	S 2				38
WME Z 180262.20		P 3E 68.65	S 3				50
YLL Z 180259.29		P 1IU					26
-1							
150889KEYWORTH	KW 067		12.5	5.0GAM/JARLMANSFIELD, NOTTS			1
	203748.68	454.90/ 362.78	2.7 1.0		53.159	-1.179	2
4 26 256 0.17	0.0	0.0 C B*D	COALFIELD TYPE				3
KBI Z 203753.35		P 2ED					26
CWF Z 203757.30		P 3E 63.38	S 3E				48
CWF NS2037				6.6H0.17ML	0.25 200		48
CWF EW2037				9.0H0.14ML	0.22 200		48
KWE Z 203757.46		P 3E					47
-1							
160889MORAY				5.0BS	ULLAPOOL, HIGHLAND		1
	32610.98	217.65/ 902.11	1.0 1.3		57.971	-5.083	2
9 54 286 0.50	13.9	10.4 D D*D					3
MVH Z 032620.62		P 1EU27.00	S 3E				54
MDO Z 032623.00		P 2E					73
MLA Z 032629.50		P 2EU42.41	S 3E				108
MCD Z 032631.10		P 2E 45.40	S 3E				117
MCD NS0326				05.8H0.08ML	0.25 200		117
MCD EW0326				10.0H0.10ML	0.25 200		117
MME Z 032635.50		P 3E 53.20	S 3E				146
-1							
210889 JERSEY				5.0ABW	BAY OF BISCAY		1
	65246.31	49.28/-240.62	5.0 3.9		47.640	-6.670	2
6374 359 0.31		D D*D					3
JLP Z 0653				32.5H0.10ML	1.0 200		382
JSA Z 0653				40.0H0.10ML	1.0 200		375
JVM Z 065338.80		P 1 76.5	S 2				374
JRS Z 065339.0		P 1 78.7	S 2				381
-1							
220889LANCS+	LA 006		12.5	5.0JAR	LCULCHETH, MANCHESTER		1
	11552.44	365.74/ 393.88	0.5 1.3		53.440	-2.516	2
14 46 111 0.33	1.2	2.8 C C*C	COALFIELD TYPE				3
KWE Z 011604.29		P 2ED					65
KBI Z 011604.68		P 3E					69
CWF Z 011611.61		P 3E 26.32	S 4E				113
CWF NS0116				5.5H0.14ML	0.25 195		113
CWF EW0116				5.0H0.13ML	0.25 195		113
LLO Z 011600.70		P 2EU					46
LBO Z 011603.30		P 3E					60
LMI Z 011610.26		P 3E 23.10	S 3E				101
LMI NS0116				8.4H0.17ML	0.25 200		101
LMI EW0116				7.6H0.26ML	0.25 200		101
SBD Z 011605.52		P 3E					78
WVR Z 011609.80		P 3E 22.50	S 4E				102
WLC Z 011609.58		P 3E 21.60	S 3E				98
WLC NS0116				4.8H0.13ML	0.25 200		98
WLC EW0116				5.8H0.12ML	0.25 200		98
WPM Z 011609.43		P 3E					95

WCB Z 011615.18	P 3E 31.43	S 3E				135
-1						
220889KEYWORTH	KW 068	12.5	5.0JAR	LCLIPSTONE,NOTTS		1
12058.89	460.92/ 366.58	1.0 1.2		53.193	-1.088	2
4 30 273 0.14	0.0 0.0 C A*D					3
KBI Z 012104.55	P 3ED					30
CWF Z 012108.57	P 3E 15.53	S 3E				53
CWF NS0121			9.2H0.17ML		0.25 200	53
CWF EW0121			12.5H0.12ML		0.25 200	53
KWE Z 012108.96	P 3E					54
-1						
220889 LOWNET	LN 658 1989	12.5	5.0DWR	LKIPPEN,CENTRAL		1
64756.94	266.60/ 695.31	7.0 0.7		56.132	-4.147	2
5 14 186 0.33	33.0 72.9 D D*D					3
EAB Z 064800.10	P 2EU01.70	S 2E	28.5H0.11M		0.25 200	14
EBH Z 064804.89	P 3E 09.52	S 3E	5.9H0.11M		0.25 200	42
EDI Z 064808.46	P 4E 15.22	S 3E	2.1H0.10M		0.25 200	64
EDI NS0648	E	E	4.0H0.15ML		0.25 200	64
EDI EW0648	E	E	2.4H0.10ML		0.25 200	64
-1						
230889LANCS	LA 006	12.5	5.0JAR	LPARTINGTON,MANCHESTER		1
52650.43	372.95/ 390.13	1.0 1.6		53.407	-2.407	2
6 50 332 0.10	8.6 6.4 D D*D COALFIELD TYPE					3
LLO Z 052659.70	P 3E					50
LBO Z 052661.78	P 3E					65
LKL Z 052666.00	P 3E					91
LMI Z 052668.70	P 3E 82.03	S 3E				108
LMI NS0526			6.0H0.20ML		0.25 200	108
LMI EW0526			7.4H0.24ML		0.25 200	108
LCK Z 052669.38	P 3E					110
-1						
230889 LOWNET+	LN 658 2338	12.5	5.0DWR	LINVERARAY,STRATHCLYDE		1
75622.61	213.96/ 711.79	2.5 0.6		56.262	-5.004	2
12 42 273 0.24	4.8 3.8 D C*D					3
EAB Z 075630.00	P 2E 35.60	S 2E	8.5H0.10M		0.25 200	42
PMS Z 075631.32	P 1IU37.60	S 2E				49
PGB Z 075633.24	P 3E 40.93	S 3E	1.0H0.09M		0.25 200	60
PGB NS0756	E	E	4.0H0.10ML		0.25 200	60
PGB EW0756	E	E	2.2H0.09ML		0.25 200	60
PCO Z 075634.11	P 1IU42.19	S 3E				64
ELO Z 075636.12	P 3E 46.28	S 3E	7.5H0.16M		0.25 200	83
EBH Z 075638.51	P 2E 49.72	S 2E	5.0H0.15M		0.25 200	93
EDU Z 075644.50	P 4E 60.30	S 3E				127
-1						
230889KEYWORTH	KW 068	12.5	5.0JAR	LBRUNTINGTHORPE,LEICS		1
102711.77	461.35/ 288.32	4.3 0.4		52.489	-1.096	2
6 31 246 0.34	6.5 8.7 D D*D					3
CWF Z 102717.53	P 1ID21.38	S 2E				31
CWF NS1027			9.1H0.07ML		0.25 200	31
CWF EW1027			11.5H0.09ML		0.25 200	31
KUF Z 102720.35	P 3E					50
KWE Z 102725.10	P 3E					77
KBI Z 102727.60	P 3E					90
KSY Z 102723.24	P 3E					63
-1						
240889 LOWNET	LN 659 545	12.5	5.0DWR	LKIPPEN,CENTRAL		1
2254 9.24	267.00/ 694.52	3.6 0.1		56.125	-4.140	2
4 14 229 0.34	0.0 0.0 D C*D					3
EAB Z 225412.12	P 1IU13.70	S 2EU13.5H0.10ML			0.25 200	14
EBH Z 225417.19	P 3E 22.55	S 2E				42
-1						
250889HEREFORD+	HF 534		5.0NSH/JAR	DLNNINGTON,S YORKSHIRE1		1
1319 7.70	452.80/ 387.72	0.4 1.8		53.383	-1.206	2
8 26 297 0.43	11.5 5.7 D D*D COALFIELD TYPE					3
MCH Z 131939.08	P 3E 64.04	S 3E				196
MCH NS1319			05.0H0.32ML		0.25 200	196
MCH EW1319			08.5H0.40ML		0.25 200	196
SBD Z 131931.40	P 3ED50.29	S 3				147
HAE Z 131936.50	P 3E					175
HTR Z 131939.60	P 3E					201
KBI Z 131912.82	P 3E					26
KWE Z 131917.70	P 3E					59
CWF Z 131920.35	P 3E					72
CWF NS1319			3.5H0.46ML		0.25 200	72
CWF EW1319			4.9H0.52ML		0.25 200	72
-1						
260889KEYWORTH	KW 069	12.5	5.0JAR	LTHORESBY,NOTTS		1
145654.34	464.41/ 369.25	2.3 1.1		53.216	-1.035	2
5 33 281 0.15	0.9 0.7 C A*D COALFIELD TYPE					3
KBI Z 145700.32	P 2E					33
CWF Z 145704.40	P 3E 11.38	S 3E				56
CWF NS1457			8.0H0.18ML		0.25 200	56
CWF EW1457			9.3H0.11ML		0.25 200	56

KWE Z 145704.80	P 2EU12.13	S 3E				58
-1						
290889KEYWORTH	KW 069	12.5	5.0JAR	LANNESLEY,NOTTS		1
224932.08	451.28/ 353.23	2.6 0.9		53.074 -1.235		2
7 28 150 0.05	0.4 3.3 C B*C					3
KBI Z 224937.30	P 1IU41.20	S 3E				28
CWF Z 224939.00	P 0ID43.39	S 2E				38
CWF NS2249			3.5H0.07ML	1.0 200		38
CWF EW2249			1.5H0.38ML	1.0 200		38
KWE Z 224939.51	P 1ID					41
KSY Z 224940.18	P 2E					45
KUF Z 224945.08	P 3E					76
-1						
310889 LOWNET+	LN 660 515	12.5	5.0JAR/DWRL	ROSEWELL,LOTHIAN		1
201848.06	329.02/ 662.83	1.4 0.5		55.853 -3.134		2
10 1 220 0.03	0.2 0.2 C A*D	COALFIELD TYPE				3
RHC Z 201848.47	P 0ID					1
RGH Z 201848.50	P 0ID					1
RRD Z 201848.56	P 1ED					1
RCA Z 201848.66	P 1ID49.05	S 2E				2
RCA NS2018			5.7H0.12M	1.0 4		2
RCA EW2018			5.0H0.10M	1.0 4		2
RCH Z 201848.70	P 1ID49.15	S 2E				2
RMM Z 201848.77	P 1ID					2
EDI Z 201850.19	P 1IU51.83	S 3EU	6.4H0.28M	1.0 200		8
EDI NS2018	IU		EU 4.5H0.20ML	1.0 200		8
EDI EW2018	ED		EU 6.5H0.31ML	1.0 200		8
EBL Z 201850.45	P 1ID52.25	S 3E				11
EAU Z 201852.28	P 2E 55.58	S 2EU				20
ESY Z 201854.28	P 3E 58.57	S 3E				33
EBH Z 201857.35	P 3E 64.10	S 3E				50
-1						
020989KEYWORTH	KW 070	12.5	5.0NSH	LTHORESBY,NOTTS		1
75143.82	464.44/ 370.13	9.3 0.8		2+ 53.224 -1.035		2
4 19 200 0.10	0.0 0.0 C A*D	COALFIELD TYPE,FELT		THORESBY		3
CWF Z 075151.30	P 3E 56.42	P 2I				41
CWF NS0751			05.0H0.20ML	0.25 200		41
CWF EW0751			07.0H0.14ML	0.25 200		41
KWE Z 075149.66	P 2E					32
KBI Z 075147.40	P 2E					19
-1						
040989N WALES			5.0	LLLEYN,GWYNEDD		1
53611.60	225.09/ 347.75	20.2 1.1		52.998 -4.607		2
18 12 180 0.08	0.4 0.7 B A*C	OFFSHORE LOCATION				3
WCB Z 053619.5	P 3E 24.56	S 2				43
WCB NS0536			3.0 H0.1 ML	1.0 200		43
WCB EW0536			3.4 H0.09ML	1.0 200		43
YRC Z 053617.26	P 1IU21.10	S 2				28
YRE Z 053615.31	P 2EU					12
WLF Z 053618.05	P 2EU22.60	S 3				35
YLL Z 053617.81	P 2EU					33
WLC Z 053621.10	P 3E 27.81	S 2				56
WLC NS0536			6.7 H0.07ML	1.0 200		56
WLC EW0536			3.9 H0.10ML	1.0 200		56
YRH Z 053616.02	P 3E 19.12	S 3				18
WBR Z 053620.35	P 2E 26.40	S 2				51
WST Z 053618.95	P 3E 24.31	S 2				42
WFB Z 053620.69	P 3E 26.85	S 3				52
-1						
040989HEREFORD	HF 536	12.5	5.0NSH	LBUXTON,DERBYSHIRE		1
124814.77	413.75/ 371.78	0.5 2.1		53.243 -1.794		2
11105 312 0.22	13.8 9.2 D D*D	COALFIELD TYPE				3
MCH Z 124840.40	P 3E 59.60	S 2I				161
MCH NS1248			15.7H0.25ML	0.25 200		161
MCH EW1248			08.5H0.22ML	0.25 200		161
SBD Z 124832.92	P 2ID45.22	S 2E				105
HAE Z 124838.45	P 2E 56.20	S 2E				144
HCG Z 124841.00	P 3E 59.85	S 2E				162
HTR Z 124841.12	P 2E 60.15	S 2E				164
HLM Z 124833.34	P 2E					109
-1						
040989 LOWNET	LN660 1759	12.5	5.0DWR	LBLAIRHALL,FIFE		1
144554.40	297.31/ 691.62	0.2 1.3		56.106 -3.651		2
10 18 125 0.22	0.8 1.2 C B*C	COALFIELD TYPE				3
EBH Z 144558.05	P 1IU61.70	S 2EU		0.25 200		18
EAU Z 144600.74	P 2E 05.10	S 3E				32
EDI Z 144601.42	P 3E 06.30	S 2EU	6.0H0.53M	0.25 200		36
EDI NS1446	E		ED 9.5H0.48ML	0.25 200		36
EDI EW1446	E		EU11.8H0.40ML	0.25 200		36
ELO Z 144601.72	P 2E 07.91	S 2EU				41
EAB Z 144602.69	P 3E 09.01	S 3E				44
-1						
050989LANCS+	LA 008	12.5	5.0JAR	LIRISH SEA		1

	92111.37	268.38/ 518.60	1.4	1.2		54.545	-4.035	2
9	36 169 0.27	2.0	3.6	C B*C	OFFSHORE,ST.BEES HEAD			3
LMI	Z 092121.57		P 1ID	28.40	S 4E			60
LMI	NS0921					10.6H0.07ML	0.25 200	60
LMI	EW0921					8.4H0.10ML	0.25 200	60
LCK	Z 092125.21		P 2ED	33.23	S 3E			78
LKL	Z 092129.45		P 2E	40.64	S 4E			104
LBO	Z 092130.80		P 2E					114
LLO	Z 092132.30		P 2E					124
XDE	Z 092117.51		P 3E					36
ECK	Z 092126.73		P 4E					92
ESK	Z 092128.40		P 2E	40.91	S 2E			101
ESK	NS0921					5.9H0.11ML	0.25 200	101
ESK	EW0921					7.8H0.16ML	0.25 200	101
XAL	Z 092131.99		P 4E					123
WIM	Z 092122.19		P 3E					61
WCB	Z 0921		P 4	49.29	S 3E			134
WCB	NS0921					3.0H0.13ML	0.25 200	134
WCB	EW0921					2.2H0.17ML	0.25 200	134
	-1							
050989	LANCS/ESK+	LA 008		12.5		5.0JAR/BS	LLOFTUS,CLEVELAND	1
	161323.79	472.33/ 516.11	0.4	2.4		5	54.535 -0.882	2
19	81 236 0.36	2.8	1.8	D C*D	FELT LOFTUS,EASINGTON,		STAITHES & BOULBY	3
XAL	Z 161339.32		P 2ED					93
XSO	Z 161346.59		P 2ID	62.60	S 4E			138
ECK	Z 161350.10		P 2EU	68.90	S 3E			161
XDE	Z 161351.49		P 2ED	72.10	S 4E			169
ESK	Z 161352.39		P 1ED	72.20	S 3E			173
ESK	NS1613					06.5H0.10ML	01.0 200	173
ESK	EW1613					06.0H0.10ML	01.0 200	173
ESY	Z 161354.07		P 3E					189
EDI	Z 161356.05		P 3E	80.58	S 3E			213
EDI	NS1613					08.0H0.60ML	0.25 200	213
EDI	EW1613					06.8H0.62ML	0.25 200	213
LKL	Z 161342.73		P 2EU					113
LBO	Z 161345.00		P 2EU					126
LCK	Z 161345.38		P 1ID					131
LMI	Z 161350.63		P 2ED	69.50	S 3E			161
LMI	NS1613					6.0H0.26ML	1.0 200	161
LMI	EW1613					8.5H0.30ML	1.0 200	161
KWE	Z 161352.50		P 3E	74.40	S 3			180
CFW	Z 161354.75		P 4	79.98	S 4E			202
CFW	NS1613					11.3H0.17ML	0.25 200	202
CFW	EW1613					14.3H0.17ML	0.25 200	202
HPK	Z 161337.55		P 3E	47.90	S 3E			81
	-1							
050989	PAISLEY	PA 276		12.5		5.0DG	LBEITH,STRATHCLYDE	1
	221826.05	236.82/ 653.90	5.4	0.1			55.751 -4.600	2
6	10 215 0.04	1.6	4.7	C B*D				3
PGB	Z 221828.25		P 2EU	29.99	S 1			10
PGB	NS2218					16.2H0.11ML	0.25 200	10
PGB	EW2218					16.5H0.10ML	0.25 200	10
PMS	Z 221829.00		P 2E	31.00	S 1			14
PCA	Z 221830.33		P 1IU	33.50	S 1			22
	-1							
060989	KEYWORTH	KW 070		5.0			LTHORESBY,NOTTS	1
	223928.00	468.22/ 369.27	0.0	1.0		2+	53.216 -0.978	2
5	37 286 0.19	19.6	14.9	D D*D	COALFIELD TYPE,FELT		THORESBY	3
CFW	Z 223938.90		P 3E	46.01	S 2E			58
CFW	NS2239					07.0H0.12ML	0.25 200	58
CFW	EW2239					08.5H0.10ML	0.25 200	58
KWE	Z 223939.26		P 2E	47.45	S 2I			62
KBI	Z 223934.82		P 3E					37
	-1							
090989	KEYWORTH	KW 071		5.0NSH			LTHORESBY,NOTTS	1
	216 6.92	465.31/ 371.50	3.4	1.3		2+	53.236 -1.021	2
6	34 223 0.09	0.3	0.5	C A*D	COALFIELD TYPE,FELT		THORESBY	3
CFW	Z 021617.18		P 3E	24.30	S 1I			59
CFW	NS0216					10.5H0.13ML	0.25 200	59
CFW	EW0216					14.5H0.10ML	0.25 200	59
KSY	Z 021614.42		P 3E					42
KWE	Z 021617.44		P 2E					60
KBI	Z 021613.06		P 2I					34
KUF	Z 021620.75		P 2E					81
	-1							
120989	KEYWORTH	KW 071		5.0NSH			LTHORESBY,NOTTS	1
	1 215.54	463.86/ 369.23	1.5	1.0			53.216 -1.044	2
6	33 215 0.12	1.6	2.2	C B*D	COALFIELD TYPE			3
CFW	Z 010225.72		P 3E	32.70	S 2I			56
CFW	NS0102					10.0H0.09ML	0.25 200	56
CFW	EW0102					12.5H0.08ML	0.25 200	56
KSY	Z 010223.10		P 2E					42
KWE	Z 010226.08		P 2E					58

KBI Z 010221.62	P 2I						33
KUF Z 010229.28	P 2E						80
-1							
120989KEYWORTH	KW 071	12.5	5.0NSH	LTHORESBY,NOTTS			1
232113.39	465.14/ 370.35	2.8 1.0		2+	53.226 -1.024		2
5 34 219 0.09	2.4 4.0 C B*D COALFIELD TYPE,FELT			THORESBY			3
CWF Z 232123.68	P 3E 30.60	S 2I					58
CWF NS2321			05.5H0.10ML		0.25 200		58
CWF EW2321			07.5H0.12ML		0.25 200		58
KSY Z 232120.84	P 2E						41
KWE Z 232123.82	P 2I						60
KBI Z 232119.42	P 3E						34
-1							
130989KEYWORTH	KW 071	12.5	5.0NSH	LTHORESBY,NOTTS			1
124242.54	412.16/ 373.36	1.6 1.1		2+	53.257 -1.818		2
4 19 267 0.12	0.0 0.0 C A*D COALFIELD TYPE FELT			THORESBY			3
CWF Z 124254.48	P 2ID						67
CWF NS1242			10.5H0.08ML		0.25 200		67
CWF EW1242			09.0H0.10ML		0.25 200		67
KSY Z 124257.75	P 2E						89
KWE Z 124247.60	P 1IU51.60	3					27
KBI Z 124246.35	P 1I 49.78	3					19
-1							
130989 LOWNET	LN 93	12.5	5.0DWR	LTHORNHILL,CENTRAL			1
154922.93	265.88/ 703.38	2.6-0.2			56.204 -4.162		2
4 11 182 0.14	0.0 0.0 C A*D A/S @ 21:42 GMT (-0.4.ML)						3
EAB Z 154925.34	P 2ED26.92	S 2ED 8.0H0.10ML			0.25 200		11
EBH Z 154930.49	P 2E 35.44	S 3E 1.5H0.09ML			0.25 200		41
-1							
130989KEYWORTH	KW 071	12.5	5.0NSH	LTHORESBY,NOTTS			1
222919.67	464.44/ 370.13	2.9 1.2		2+	53.224 -1.035		2
5 33 231 0.11	0.6 1.2 C A*D COALFIELD TYPE,FELT			THORESBY			3
CWF EW2229			12.0H0.10ML		0.25 200		57
KWE Z 222930.08	P 2E						59
KBI Z 222925.60	P 2I						33
KUF Z 222933.28	P 2I						80
-1							
150989 LOWNET	LN 662 678	12.5	5.0DWR	LTHORNHILL,CENTRAL			1
102924.00	265.43/ 697.67	4.5 0.9			56.153 -4.167		2
8 11 123 0.09	2.1 4.8 C B*C F/S @ 05:16 GMT (14TH),			A/S @ 00:11 GMT (17TH)			3
EAB Z 102926.51	P 1ID28.11	S 2ED14.4H0.11M			1.0 200		12
EBH Z 102931.60	P 2ED37.00	S 2E 2.4H0.11M			1.0 200		42
ELO Z 102932.12	P 3E						45
EDI Z 102935.10	P 4E 43.60	S 3E 3.6H0.11M			0.25 200		66
EDI NS1029	E	EU 4.5H0.18ML			0.25 200		66
EDI EW1029	E	EU 3.2H0.11ML			0.25 200		66
PCO Z 102927.70	P 1IU29.59	S 3E					19
-1							
160989LANCS+	LA 010	12.5	5.0JAR	LCHAT MOSS,MANCHESTER			1
44910.48	370.15/ 396.15	0.4 1.1			53.461 -2.450		2
9 44 129 0.16	0.4 0.7 C B*C COALFIELD TYPE						3
LLO Z 044918.65	P 3E						44
LBO Z 044920.91	P 3E						58
LKL Z 044925.05	P 3E						85
LMI Z 044927.75	P 3E 40.43	S 3E					102
LMI NS0449			4.1H0.20ML		0.25 200		102
LMI EW0449			6.5H0.26ML		0.25 200		102
LCK Z 044928.29	P 3E						104
KBI Z 044922.10	P 3E						66
CWF Z 044930.45	P 4 44.48	S 4E					111
CWF NS0449			3.8H0.15ML		0.25 200		111
CWF EW0449			2.5H0.15ML		0.25 200		111
HPK Z 044924.78	P 4E 34.36	S 3E					78
WLC Z 044927.40	P 4E 40.94	S 3E					103
WLC NS0449			1.7H0.16ML		0.25 200		103
WLC EW0449			2.0H0.18ML		0.25 200		103
-1							
170989KEYWORTH	KW 072	12.5	5.0NSH	LTHORESBY,NOTTS			1
101542.27	464.67/ 370.31	1.8 1.0		2+	53.226 -1.031		2
4 33 283 0.10	0.0 0.0 C A*D COALFIELD TYPE,FELT			THORESBY			3
CWF Z 101552.60	P 3E 59.70	S 1I					57
CWF NS1015			08.0H0.08ML		0.25 200		57
CWF EW1015			12.0H0.11ML		0.25 200		57
KWE Z 101552.88	P 2E						59
KBI Z 101548.40	P 2E						33
-1							
180989KEYWORTH+	KW 072	12.5	5.0NSH	LCANNOCK,STAFFORDSHIRE			1
161735.92	398.58/ 312.93	1.3 1.1			52.714 -2.021		2
9 36 109 0.33	2.2 4.4 C C*C COALFIELD TYPE						3
CWF Z 161744.70	P 2ID51.24	S 1I					48
CWF NS1617			16.5H0.10ML		0.25 200		48
CWF EW1617			10.1H0.12ML		0.25 200		48
KWE Z 161742.25	P 2I						36

KBI Z 161748.14	P 2I						69
KUF Z 161755.00	P 1ID						111
MCH Z 161752.82	P 3E						104
MCH NS1617				09.5H0.10		0.25	104
MCH EW1617				09.0H0.15		0.25	104
SBD Z 161751.15	P 3E						86
HCG Z 161756.05	P 3E						119
HGH Z 161757.50	P 3E						131
-1							
200989LANCS+	LA 010	12.5	5.0JAR	LPRESTWICH, MANCHESTER			1
55723.99	383.47/ 408.74	0.2 1.5		3+ 53.575	-2.250		2
7 37 170 0.29	2.5 3.0 C B*C	COALFIELD TYPE, FELT		WHITEFIELD			3
LLO Z 055731.44	P 3E						37
LBO Z 055732.89	P 3E						50
LMI Z 055740.66	P 3E 53.78	S 3E					100
LMI NS0557			5.5H0.17ML		0.25 200		100
LMI EW0557			5.6H0.20ML		0.25 200		100
LCK Z 055741.09	P 3E						96
WLC Z 055742.67	P 4 57.41	S 4					121
WLC NS0557			4.3H0.30ML		0.25 200		121
WLC EW0557			7.8H0.21ML		0.25 200		121
CFW Z 055743.10	P 3E 58.21	S 4					112
CFW NS0557			7.1H0.20ML		0.25 200		112
CFW EW0557			8.6H0.20ML		0.25 200		112
HPK Z 0557	4 42.68	S 3E					59
-1							
200989KEYWORTH	KW 072	12.5	5.0NSH	LTHORESBY, NOTTS			1
175352.57	461.24/ 372.28	18.9 1.2		2+ 53.244	-1.082		2
4 30 283 0.00	0.0 0.0 C A*D	COALFIELD TYPE, FELT		THORESBY			3
CFW Z 175402.55	P 3E 09.64	S 1I					58
CFW NS1754			09.0H0.14ML		0.25 200		58
CFW EW1754			11.5H0.10ML		0.25 200		58
KWE Z 175402.34	P 3E						57
KBI Z 175358.50	P 2E						30
-1							
220989KEYWORTH	KW 073	12.5	5.0NSH	LTHORESBY, NOTTS			1
193820.00	460.94/ 367.86	1.4 1.1		2+ 53.204	-1.088		2
4 30 275 0.06	0.0 0.0 C A*D	COALFIELD TYPE, FELT		THORESBY			3
CFW Z 193829.80	P 3E 36.88	S 1I					54
CFW NS1938			09.0H0.10ML		0.25 200		54
CFW EW1938			11.5H0.12ML		0.25 200		54
KWE Z 193830.00	P 3E						55
KBI Z 193825.70	P 2I						30
-1							
220989 CORNWALL			5.0ABW	LSCILLY ISLES, CORNWALL			1
211132.07	103.36/ 16.20	4.6 1.8		49.971	-6.138		2
8 45 340 0.04	19.1 43.5 D D*D	7 KM EAST OF ST MARTINS					3
CPZ Z 211140.00	P 1 U						45
CCO Z 211143.88	P 1						70
CCA Z 211143.92	P 1						69
CGH Z 211144.02	P 1						70
CR2 Z 211144.40	P 1 53.36	S 1					73
CR2 NS2111			6.2 H0.06ML		2.5 200		73
CR2 EW2111			8.9 H0.05ML		2.5 200		73
CST Z 211144.65	P 1						74
CBW Z 211144.85	P 1						76
-1							
240989KEYWORTH	KW 073	12.5	5.0NSH	LTHORESBY, NOTTS			1
174344.27	460.81/ 371.31	17.9 1.1		2+ 53.235	-1.089		2
4 29 218 0.06	0.0 0.0 C A*D	COALFIELD TYPE, FELT		THORESBY			3
CFW Z 174353.98	P 3E 61.24	S 2I					57
CFW NS1743			06.5H0.14ML		0.25 200		57
CFW EW1743			08.0H0.12ML		0.25 200		57
KSY Z 174352.40	P 2I						45
KWE Z 174354.35	P 4E						56
KBI Z 174350.08	P 2E						29
-1							
250989HEREFORD+	HF 539		5.0NSH	LRIDLEY, CHESHIRE			1
1027 5.08	355.29/ 357.89	7.2 2.0		53.116	-2.668		2
15 46 276 0.25	2.9 4.5 D C*D						3
MCH Z 102726.08	P 3E 40.49	S 2I					127
MCH NS1027			11.5H0.08ML		0.25		127
MCH EW1027			08.5H0.05ML		0.25		127
SBD Z 102713.12	P 2ID19.70	S 2I					46
HAE Z 102724.78	P 3E						120
HLM Z 102716.39	P 2ID24.70	S 1I					68
HCG Z 102723.12	P 3E						111
WLC Z 102717.75	P 3E 26.62	S 1					76
WVR Z 102717.20	P 2E 25.41	S 3					72
WBR Z 102719.42	P 2E						87
WFB Z 102722.04	P 2E 34.95	S 3					104
WLC NS1027			10.4H0.17ML		0.25 200		76
WLC EW1027			06.5H0.14		0.25		

-1									
280989	HEREFORD	HF 539				5.0NSH	LABERGAVENNY, GWENT		1
		1223 5.33	324.03/	213.27	23.2	1.4		51.812 -3.102	2
		7 22 205 0.14	1.4	2.1	C B*D				3
MCH	Z	122310.60	P 1	ID14.40		S 1I			22
MCH	NS	1223					05.2H0.08ML	10 200	22
MCH	EW	1223					06.0H0.08ML	10 200	22
HAE	Z	122313.90	P 1	I 19.35		S 1I			46
HGH	Z	122311.38	P 1	ID15.50		S 1I			28
HTR	Z	122311.58	P 1	ID					32
-1									
300989	CORNWALL					5.0	LLIZARD POINT, CORNWALL		1
		12534.21	193.19/	-8.88	4.2	0.6		49.784 -4.873	2
		7 36 348 0.18	17.1	6.0	D D*D SOUTH OF LIZARD POINT				3
CGH	Z	012540.83	P 1						36
CBW	Z	012541.90	P 2	E					44
CCO	Z	012542.12	P 1						45
CR2	Z	012542.66	P 1	48.80		S 2			48
CR2	NS	0125					10.0H0.04ML	0.25 200	48
CR2	EW	0125					8.5H0.06ML	0.25 200	48
CST	Z	012543.30	P 2						50
CCA	Z	012543.66	P 2						51
-1									
300989	CORNWALL					5.0	LLIZARD POINT, CORNWALL		1
		105250.37	172.77/	-0.62	6.6	0.5		49.851 -5.161	2
		8 22 312 0.03	0.7	0.4	C A*D SOUTH OF LIZARD POINT				3
CGH	Z	105254.67	P 1						22
CCO	Z	105256.23	P 1						32
CBW	Z	105256.38	P 1						33
CR2	Z	105256.74	P 1	61.35		S 2			35
CCA	Z	105257.15	P 1						38
CST	Z	105257.20	P 1						38
CPZ	Z	105258.30	P 1						46
CR2	EW	1052					3.5 H0.05ML	1.0 200	35
CR2	NS	1052					4.0 H0.05ML	1.0 200	35
-1									
300989	CORNWALL					5.0	LLIZARD POINT, CORNWALL		1
		1217 0.93	177.73/	-11.44	5.6	1.4		49.756 -5.086	2
		8 33 324 0.08	21.5	47.0	D D*D SOUTH OF LIZARD POINT				3
CGH	Z	121707.07	P 1						33
CCO	Z	121708.40	P 1						43
CBW	Z	121708.70	P 1						44
CR2	Z	121709.00	P 1	14.98		S 1			46
CR2	NS	1217					6.0 H0.05ML	2.5 200	46
CR2	EW	1217					6.0 H0.07ML	2.5 200	46
CST	Z	121709.60	P 1						49
CCA	Z	121709.63	P 1						49
CPZ	Z	121710.75	P 1						57
-1									
300989	CORNWALL					5.0	LLIZARD POINT, CORNWALL		1
		153340.61	171.77/	-15.68	8.4	0.5		49.715 -5.166	2
		5 37 351 0.39	43.8555.5	D D*D SOUTH OF LIZARD POINT					3
CGH	Z	153347.50	P 1						37
CCO	Z	153348.09	P 2						47
CBW	Z	153349.25	P 2						48
CR2	Z	1533		55.12		S 2			50
CCA	Z	1533		56.45		S 2			53
CR2	NS	1533					8.0 H0.05ML	0.25 200	50
CR2	EW	1533					6.5 H0.06ML	0.25 200	50
-1									
021089	KEYWORTH	KW 074				5.0NSH	LTHORESBY, NOTTS		1
		233658.87	464.86/	370.64	2.0	1.2		53.229 -1.028	2
		5 33 220 0.04	1.2	1.4	C B*D COALFIELD TYPE				3
CFW	Z	233709.10	P 3E	16.35		S 1I			58
CFW	NS	2337					08.5H0.15ML	0.25 200	58
CFW	EW	2337					10.5H0.11ML	0.25 200	58
KSY	Z	233706.50	P 3E						42
KWE	Z	233709.40	P 2E						59
KBI	Z	233705.05	P 2E						34
-1									
081089	KEYWORTH	KW 074				5.0NSH	LTHORESBY, NOTTS		1
		117 3.86	464.26/	372.75	7.6	0.8		53.248 -1.037	2
		4 33 286 0.03	0.0	0.0	C A*D COALFIELD TYPE				3
CFW	Z	011713.92	P 3E	21.08		S 2I			60
CFW	NS	0117					05.0H0.12ML	0.25 200	60
CFW	EW	0117					04.0H0.09ML	0.25 200	60
KWE	Z	011714.00	P 3E						60
KBI	Z	011709.72	P 3E						33
-1									
091089	EA/KW+				12.5	5.0DG	RSOUTHERN NORTH SEA		1
		193426.53	696.47/	356.93	0.0	3.2		53.027 2.422	2
		17 87 287 0.69	6.3	3.6	D D*D				3
ABA	Z	193440.80	P 1	ID					87

AWH Z 193444.41	P 1IU57.08	S 3				109
APA Z 193444.46	P 1IU57.09	S 2				103
KUF Z 193457.55	P 1ID80.74	S 3				195
KSY Z 193458.41	P 3E 82.05	S 3				202
KTG Z 193459.39	P 2ED83.58	S 3				206
CWF Z 193504.71	P 1ID32.97	S 2				253
CWF NS1935				7.5H0.30ML	01.0 200	253
CWF EW1935				4.5H0.24ML	01.0 200	253
KBI Z 193505.80	P 2E					266
KWE Z 193507.59	P 2E 42.45	S 3				286
HPK Z 193510.10	P 3E 41.70	S 4				288
HPK NS1935				11.1H0.26ML	01.0 200	288
HPK EW1935				15.1H0.30ML	01.0 200	288
ESY Z 193530.10	P 2E 72.70	S 3				458
EBL Z 193530.90	P 2E 76.30	S 3				469
EDI Z 193533.20	P 3E 79.40	S 3				486
EDI NS1935				2.5H0.80ML	0.25 200	486
EDI EW1935				2.5H0.80ML	0.25 200	486
-1						
101089ESK+	ES 441	12.5	5.0DDG/DWRLETTRICK, BORDERS			1
103253.21	328.80/ 616.96	3.9 1.6	3+ 55.441 -3.126			2
12 15 96 0.10	0.6 1.6 B A*C FELT AT TUSHIELAW INN					3
ESK Z 103256.26	P 0ID58.25	S 2E	4.5H0.10M	10.0 200		15
ESK NS1032	IU	E	4.6H0.10M	10.0 200		15
ESK EW1032	EU	ED	6.4H0.10M	10.0 200		15
ECK Z 103258.69	P 1EU62.30	S 2E				29
EBL Z 103300.01	P 2E 04.30	S 2ED				37
EAU Z 103302.05	P 1EU					49
EDI Z 103302.81	P 2E 09.30	S 2E	2.6H0.11M	1.0 200		54
EDI NS1033	IU	EU	4.1H0.11ML	1.0 200		54
EDI EW1033	E	EU	2.2H0.22ML	1.0 200		54
XSO Z 103302.92	P 1IU					56
ESY Z 103303.82	P 1IU11.00	S 2E				62
PCA Z 103306.22	P 1EU					77
XAL Z 103308.31	P 3E					87
EBH Z 103309.10	P 2E 19.19	S 3E				93
PGB Z 103309.50	P 3E 20.20	S 3E				95
PGB NS1033	E	E	7.0H0.10ML	1.0 200		95
PGB EW1033	E	E	6.8H0.13ML	1.0 200		95
XDE Z 103311.28	P 3E					107
PMS Z 103311.72	P 3E					112
EAB Z 103312.49	P 2E 26.36	S 3E				113
ELO Z 103313.12	P 3E 27.30	S 3E				120
-1						
101089MORAY+			5.0BS	LKINLOCHEWE, HIGHLAND		1
181422.17	208.29/ 858.98	0.4 1.4	57.580 -5.207			2
13 11 193 0.27	2.0 40.2 D C*D					3
MDO Z 181430.60	P 1EU37.20	S 3E				53
MVH Z 181433.69	P 1EU42.50	S 3E				72
MCD Z 181441.10	P 1EU54.00	S 3E				117
MCD NS1814			06.2H0.09ML	01.0 200		117
MCD EW1814			07.5H0.10ML	01.0 200		117
MME Z 181444.31	P 1EU60.20	S 3E				138
ELO Z 181447.60	P 1EU65.10	S 3E	5.0H0.21M	0.25 200		153
EAB Z 181448.41	P 2E 66.81	S 3E	2.6H0.09M	0.25 200		164
EDU Z 181450.95	P 3E					176
EBH Z 181452.02	P 3E 71.90	S 3E	2.9H0.22M	0.25 200		181
KPL Z 181428.25	P 2E 32.67	S 2E				38
KAR Z 181437.01	P 2E					83
KAC Z 181423.92	P 1ID24.88	S 3E				11
KPL NS1814			03.5H0.12ML	01.0 200		38
KPL EW1814			04.5H0.11ML	01.0 200		38
-1						
151089 CORNWALL			5.0	LLIZARD POINT, CORNWALL		1
51737.43	169.87/ -11.32	7.9 0.5	49.754 -5.195			2
7 33 350 0.05	3.6 75.6 D C*D SOUTH OF LIZARD POINT					3
CGH Z 051743.47	P 1					33
CCO Z 051744.81	P 2					43
CBW Z 051745.10	P 2					44
CR2 Z 051745.33	P 2 51.20	S 2				46
CR2 NS0517		S	7.3H0.05ML	0.25 200		46
CR2 EW0517			8.0 0.06 ML	0.25 200		46
CST Z 051745.95	P 1					49
CCA Z 0517	51.80	S 2				48
-1						
161089 LOWNET	LN 666 1694	12.5	5.0DWR	LTYNDRUM, CENTRAL		1
132252.27	228.42/ 724.02	3.0 0.9	56.377 -4.779			2
11 34 262 0.26	2.3 2.8 C B*D					3
EAB Z 132258.43	P 1IU62.71	S 3E		0.25 200		34
ELO Z 132303.32	P 1IU11.00	S 3E	7.0H0.09ML	0.25 200		67
EBH Z 132306.21	P 2E 16.28	S 3E				80
EDU Z 132310.50	P 2E 23.90	S 3E	2.4H0.10ML	0.25 200		110
PMS Z 132302.68	P 2E 10.00	S 3E				59

PCO Z 132303.00		P 2E							61
-1									
161089 LOWNET+	LN 666	1729	12.5	5.0DWR	LTYNDRUM,CENTRAL				1
155538.53	230.69/	724.76	4.9 1.1		56.385	-4.743			2
11 33 260 0.21	1.9	1.9 C B*D							3
EAB Z 155544.56		P 1EU48.99		S 3E		0.25 200			33
ELO Z 155549.40		P 1IU57.09		S 3E	9.9H0.10M	0.25 200			64
EBH Z 155552.05		P 3E							78
EDU Z 155556.51		P 3E 69.42		S 3E	3.0H0.15M	0.25 200			108
EDI Z 155557.10		P 4E 71.30		S 3E	3.3H0.15M	0.25 200			109
EDI NS1555		E		E	3.5H0.11ML	0.25 200			109
EDI EW1555		E		E	3.9H0.20ML	0.25 200			109
PMS Z 155548.80		P 2E 56.28		S 3E					60
PCO Z 155549.06		P 2E							60
-1									
161089N WALES				5.0RITCHIELLEYN,GWYNEDD					1
162547.78	238.96/	342.32	23.9 1.1		52.954	-4.397			2
20 4 99 0.09	0.3	0.9 B A*B LLEYN AFTERSHOCK							3
WLC Z 162555.60		P 1IU61.01		S 1					42
WCB NS1625					6.0 H0.07ML	0.25 200			48
WCB EW1625					9.4 H0.07ML	0.25 200			48
YRH Z 162552.90		P 1IU							21
WBR Z 162554.50		P 3E 59.20		S 3					36
WST Z 162553.66		P 1IU57.69		S 3					28
WFB Z 162555.22		P 3E 60.06		S 3					39
WCB Z 162556.99		P 3E 62.50		S 2					48
YRC Z 162554.45		P 3E 59.35		S 2					35
YRE Z 162551.60		P 2E							4
WPM Z 162556.30		P 3E							47
WLF Z 162554.85		P 2E 59.69		S 2					37
WME Z 162556.59		P 1IU62.80		S 2					50
YLL Z 162553.40		P 1IU57.30		S 3					26
WLC NS1625					15.7H0.15ML	1.0 200			42
WLC EW1625					10.0H0.12ML	1.0 200			42
-1									
201089KEYWORTH	KW 076		12.5	5.0NSH	LTHORESBY,NOTTS				1
32520.23	465.40/	372.62	7.6 1.3		53.246	-1.020			2
4 34 287 0.08	0.0	0.0 C A*D COALFIELD TYPE							3
CWF Z 032530.36		P 2E 37.48		S 1I					60
CWF NS0325					09.5H0.09ML	0.25 200			60
CWF EW0325					20.5H0.11ML	0.25 200			60
KWE Z 0325 30.60		P 2I							61
KBI Z 0325 26.26		P 2I							34
-1									
211089KEYWORTH	KW 076		12.5	5.0NSH	LTHORESBY,NOTTS				1
1443 7.37	463.67/	371.78	5.9 1.2		53.239	-1.046			2
4 32 284 0.09	0.0	0.0 C A*D COALFIELD TYPE							3
CWF Z 144317.44		P 2E 24.45		S 1I					58
CWF NS1443					11.0H0.10ML	0.25 200			58
CWF EW1443					11.5H0.11ML	0.25 200			58
KWE Z 144317.60		P 3E							59
KBI Z 144313.22		P 2I							32
-1									
221089 LOWNET+	LN 667	1521	12.5	5.0DG/DWR	LLOCH NEVIS,HIGHLAND				1
20 043.07	170.51/	798.87	7.1 2.2		2+ 57.024	-5.782			2
17 12 117 0.26	1.2	1.6 B B*B FELT MALLAIG & MORAR							3
EAB Z 200104.30		P 2ED18.79		S 3E	4.0H0.20M	1.0 200			129
ELO Z 200105.80		P 3E 22.41		S 2EE	4.1H0.16M	1.0 200			141
EBH Z 200109.95		P 3E 28.34		S 3E	5.3H0.19M	1.0 200			164
EDU Z 200112.50		P 4E 32.89		S 4E					177
EDR Z 200112.50		P 3EU							197
EDI Z 200116.14		P 4ED35.58		S 3E	2.4H0.24M	1.0 200			201
EDI NS2001		E		S E	3.8H0.24ML	1.0 200			201
EDI EW2001		E		E	2.5H0.28ML	1.0 200			201
EBL Z 200116.33		P 3E							219
KAC Z 200053.08		P 2E							61
MDO Z 200058.81		P 3EU							98
MVH Z 200104.00		P 1ED18.50		S 3E					139
MCD Z 200108.12		P 1E 24.50		S 3E					165
MCD NS2001					5.3H0.10ML	1.0 200			165
MCD EW2001					6.5H0.09ML	1.0 200			165
MME Z 200109.20		P 2E 27.30		S 3E					173
MLA Z 2001		34.60		S 3E					203
MFI Z 200115.30		P 2E							220
KSK Z 200055.16		P 2E							74
KAR Z 200045.28		P 1ID							12
KSB Z 200048.16		P 1IU							30
KPL Z 200048.98		P 1IU							36
-1									
231089N WALES+				5.0RITCHIELBALA,GWYNEDD					1
113313.82	289.79/	348.87	12.4 0.5		53.025	-3.643			2
21 10 151 0.15	0.5	0.6 B A*C NORTH OF BALA							3
WCB Z 113325.02		P 4E 34.20		S 2					72

YRC Z 113325.03	P 3E 32.96	S 2				67
YRE Z 113323.08	P 1IU					53
WPM Z 113319.45	P 1I 22.85	S 2				31
WLF Z 113323.75	P 2E 30.60	S 2				58
WME Z 113323.78	P 3E					60
YLL Z 113320.50	P 1IU25.10	S 2				38
WLC Z 113316.65	P 1IU18.38	S 1				10
WLC NS1133			8.5 H0.1 ML	1.0 200		10
WLC EW1133			17.5H0.1 ML	1.0 200		10
YRH Z 113325.70	P 1IU					70
WVR Z 113318.55	P 1ID					26
WBR Z 113318.69	P 1IU					25
WST Z 113318.45	P 1IU					24
WFB Z 113321.90	P 3E 27.12	S 2				46
SBD Z 113319.1	P 1ID22.80	S 1				29
-1						
231089 LOWNET	LN 667 1827	12.5	5.0DWR	LCLACKMANNAN, CENTRAL		1
	182536.29	294.54/ 693.06	0.6 1.5	4+ 56.119 -3.696		2
12 19 127 0.05	0.2 0.2 B A*C	COALFIELD TYPE, FELT AT		GARTFINNAN FARM		3
EBH Z 182540.20	P 0IU43.11	S 2EU15.4H0.55M		1.0 200		19
EAU Z 182542.91	P 2EU47.56	S 2EU 5.1H0.39M		1.0 200		34
EDI Z 182543.69	P 2EU49.07	S 2E 3.1H0.19M		1.0 200		39
EDI NS1825	ED	ED 3.1H0.52ML		1.0 200		39
EDI EW1825	EU	EU 5.4H0.29ML		1.0 200		39
ELO Z 182543.72	P 1ID49.21	S 2EU 2.6H0.42M		1.0 200		39
EAB Z 182544.00	P 1ID49.65	S 3ED				41
EBL Z 182546.50	P 2E 54.00	S 2EU				56
EDU Z 182547.98	P 2EU55.98	S 3E				64
-1						
241089 LOWNET	LN 667 2108	12.5	5.0DWR	LBLAIRHALL, FIFE		1
	1445 8.75	297.90/ 691.71	0.2 1.5	56.107 -3.642		2
9 18 123 0.08	0.3 0.5 B A*C	COALFIELD TYPE				3
EBH Z 144512.50	P 1IU15.60	S 3E 12.1H0.63M		1.0 200		18
EAU Z 144514.99	P 3E	2.2H0.45M		1.0 200		32
EDI Z 144515.60	P 2EU20.55	S 2E 2.0H0.44M		1.0 200		35
EDI NS1445	ED	EU 4.6H0.36ML		1.0 200		35
EDI EW1445	EU	EU 5.0H0.45ML		1.0 200		35
ELO Z 144516.49	P 2E 22.35	S 2EU 4.6H0.35M		1.0 200		41
EAB Z 144517.00	P 3E 23.37	S 3E				44
EDU Z 144520.40	P 3E					63
-1						
241089LANCS+	LA 015	12.5	5.0JAR	LWIGAN, LANCASHIRE		1
	172558.23	353.29/ 404.14	14.6 1.4	53.532 -2.705		2
21 32 73 0.15	0.4 0.7 B A*C					3
LLY Z 172604.37	P 3E					33
LLO Z 172604.98	P 1ID					37
LBO Z 172607.02	P 3E					51
LKL Z 172611.28	P 3E 20.00	S 3				77
LMI Z 172612.68	P 3E 22.91	S 2				86
LMI NS1726			11.5H0.21ML	0.25 200		86
LMI EW1726			10.4H0.13ML	0.25 200		86
LCK Z 172613.43	P 3E 23.52	S 3				93
SBD Z 172611.30	P 1IU21.02	S 3				79
WPM Z 172612.40	P 2ED					85
WLF Z 172616.40	P 3 30.01	S 3				116
WCB Z 172616.50	P 4 32.07	S 3				123
WCB NS1726			4.2H0.10ML	0.25 200		123
WCB EW1726			4.6H0.10ML	0.25 200		123
WLC Z 172613.35	P 2E 24.50	S 3				93
WLC NS1726			11.7H0.11ML	0.25 200		93
WLC EW1726			15.1H0.10ML	0.25 200		93
WVR Z 172614.79	P 2ID					102
KWE Z 172611.62	P 3E					81
KBI Z 172612.31	P 3E					84
HPK Z 172612.10	P 3 22.09	S 3				86
-1						
251089N WALES			5.0RITCHIELLLEYN, GWYNEDD			1
	043 4.16	232.44/ 336.78	13.7 0.7	52.902 -4.492		2
13 10 156 0.07	0.5 0.5 B A*C					3
YRE Z 004307.02	P 1IU08.90	S 1				10
YLL Z 004310.30	P 1IU14.51	S 1				34
WLC Z 004312.70	P 1IU18.41	S 1				49
WLC NS0043			5.1 H0.16ML	0.25 200		49
WLC EW0043			4.7 H0.09ML	0.25 200		49
YRH Z 004307.20	P 1IU09.30	S 1				12
WBR Z 004311.31	P 2E 16.05	S 2				41
WST Z 004309.95	P 3E					35
WFB Z 004311.09	P 3E 15.58	S 3				39
-1						
261089 PAISLEY+	PA284	12.5	5.0DG	LTYNDRUM, CENTRAL		1
	1913 1.28	233.06/ 725.17	4.8 1.3	56.389 -4.705		2
12 32 259 0.34	2.6 2.5 D C*D					3
PMS Z 191311.53	P 2EU18.89	S 2				61

PCO Z 191311.78	P 2E 19.49	S 3				59
PGB Z 191313.26	P 3E 20.80	S 3				66
PGB NS1913			4.8H0.17ML	0.25 200		66
PGB EW1913			5.0H0.18ML	0.25 200		66
PCA Z 191315.71	P 3E					82
EAB Z 191307.16	P 1IU10.82	S 3E	11.1H0.20M	0.25 200		32
ELO Z 191311.90	P 2E 19.45	S 2E	7.1H0.17M	0.25 200		62
EBH Z 191314.71	P 2E 23.85	S 3E	3.3H0.19M	0.25 200		76
EAU Z 191318.30	P 3E					99
EDU Z 191319.59	P 2EU31.42	S 3E				106
EDI Z 191320.62	P 2E 32.80	S 2E	3.1H0.19M	0.25 200		108
EDI NS1913	E		EU 6.0H0.20ML	0.25 200		108
EDI EW1913	E		E 4.6H0.40ML	0.25 200		108
EBL Z 191322.50	P 3E					124
-1						
271089LANCS+	LA 016	12.5	5.0JAR	LWHITBURN, TYNE & WEAR		1
1 7 5.67	440.08/ 562.64	0.5 1.7		54.957 -1.374		2
11 55 266 0.25	3.7 2.6 D C*D	COALFIELD TYPE				3
LKL Z 010724.73	P 3E 38.22	S 3E				111
LCK Z 010725.40	P 2EU					117
LBO Z 010728.18	P 3E					134
LMI Z 010730.10	P 3E 48.13	S 3E				149
LMI NS0107			6.2H0.32ML	0.25 200		149
LMI EW0107			6.0H0.38ML	0.25 200		149
XAL Z 010715.29	P 3E 21.70	S 3				55
XSO Z 010719.48	P 3E 30.34	S 2				82
ECK Z 010725.23	P 2E 39.70	S 3				115
ESK Z 010726.55	P 2E 41.46	S 3				124
ESK NS0107	41.46	S	5.4H0.19ML	0.25 200		124
ESK EW0107			4.6H0.28ML	0.25 200		124
ESY Z 010727.92	P 2E 45.00	S 3E		0.25 200		133
EBL Z 010728.88	P 2E 47.22	S 3E				140
EDI Z 010731.70	P 2E 51.99	S 2E	2.8H0.40M	0.25 200		157
EDI NS0107	E		E 3.2H0.41ML	0.25 200		157
EDI EW0107	E		EU 2.6H0.39ML	0.25 200		157
EBH Z 010737.61	P 3E 62.40	S 3E				197
-1						
021189 LOWNET+	LN 669	309	12.5	5.0DWR	LTYNDRUM, CENTRAL	1
6 243.49	220.03/ 718.78	9.1 0.8		56.327 -4.911		2
14 39 269 0.50	2.8 7.3 D C*D					3
EAB Z 060250.20	P 2E 55.01	S 3E	3.0H0.09M	0.25 200		39
ELO Z 060255.41	P 3E 64.22	S 3E	1.5H0.10M	0.25 200		76
EBH Z 060258.06	P 3E 69.14	S 3E				87
EDI Z 060303.22	P 3E 17.91	S 3E	2.1H0.19M	0.25 200		116
EDI NS0603	E		E 2.0H0.15ML	0.25 200		116
EDI EW0603	E		E 0.8H0.19ML	0.25 200		116
PMS Z 060253.07	P 2E 58.71	S 3E				55
PCO Z 060254.20	P 2E 61.98	S 3E				63
PGB Z 060254.40	P 3E 61.90	S 3E				64
PGB NS0602	E		E 3.5H0.15ML	0.25 200		64
PGB EW0602	E		E 3.2H0.11ML	0.25 200		64
-1						
031189KEYWORTH	KW 078	12.5	5.0NSH	LTHORESBY, NOTTS		1
191346.96	459.50/ 368.42	3.4 1.0		2+ 53.209 -1.109		2
4 28 274 0.09	0.0 0.0 C A*D	COALFIELD TYPE, FELT		THORESBY		3
CWF Z 191356.47	P 3E 63.38	S 1I				54
CWF NS1913			09.2H0.10ML	0.25 200		54
CWF EW1913			10.5H0.10ML	0.25 200		54
KWE Z 191356.60	P 3E					54
KBI Z 191352.20	P 2E					28
-1						
061189LANCS+	LA 017	12.5	5.0JAR	LPENRITH, CUMBRIA		1
05434.47	346.72/ 532.45	2.4 0.9		54.684 -2.827		2
11 36 97 0.25	1.4 2.2 C B*C					3
LCK Z 005441.20	P 1IU45.51	S 2				36
LKL Z 005444.30	P 1IU					55
LMI Z 005445.00	P 2E 53.07	S 2				60
LMI NS0054			4.9H0.11ML	0.25 200		60
LMI EW0054			5.3H0.10ML	0.25 200		60
LBO Z 005448.91	P 4E					80
XAL Z 005442.29	P 2E					44
XDE Z 005442.81	P 2E					47
ECK Z 005444.38	P 2E					59
ESK Z 005447.50	P 2E 55.57	S 3				75
ESK NS0054			8.4H0.09ML	0.25 200		75
ESK EW0054			5.9H0.09ML	0.25 200		75
XSO Z 005451.02	P 2ID					97
-1						
061189 CORNWALL			5.0ABW	LLIZARD POINT, CORNWALL		1
235236.35	141.54/ -46.14	5.0 1.0		49.430 -5.565		2
6 75 356 0.51	90.7 59.1 D D*D	SOUTHWEST OF LIZARD POINT				3
CR2 Z 2352	61.80	S 2				87
CR2 NS2352			8.9 H0.05ML	0.25 200		87

CR2 EW2352				10.0H0.06ML		0.25 200	87
CGH Z 235248.47		P 2					75
CCO Z 235249.95		P 2					83
CST Z 235251.20		P 2	61.80	S 2			90
CBW Z 235251.50		P 2					86
-1							
081189N WALES				5.0RITCHIELLLEYN,GWYNEDD			1
125228.39	237.29/ 344.00	22.6 0.6			52.968	-4.423	2
13 1 131 0.06	0.3 0.6 B A*B	LLEYN AFTERSHOCK					3
WLC Z 125236.30		P 1IU41.72		S 2			43
WLC NS1252				8.0 H0.06ML		0.25 200	43
WLC EW1252				11.0H0.09ML		0.25 200	43
YRH Z 125233.40		P 1ID36.69		S 1			20
WBR Z 125235.45		P 2E 40.20		S 1			38
WST Z 125234.40		P 1IU38.50		S 1			29
YRE Z 125231.99		P 1IU					1
YLL Z 125233.91		P 1IU37.65		S 2			26
WLF Z 125235.17		P 2E 39.92		S 2			36
-1							
081189N LOWNET+	LN 670	212	12.5	5.0DWR	LDALMALLY,STRATHCLYDE		1
234715.68	221.58/ 716.15	9.1 0.3			56.304	-4.884	2
7 36 301 0.17	2.2 23.3 D C*D						3
EAB Z 234722.15		P 1ED26.69		S 2E	2.8H0.06M	0.25 200	36
PMS Z 234724.34		P 2E 30.85		S 3			52
PGB Z 234725.99		P 2E 33.90		S 3			61
PGB NS2347				1.6H0.10ML		0.25 200	61
PGB EW2347				1.3H0.11ML		0.25 200	61
PCO Z 234726.08		P 2E					60
-1							
101189KEYWORTH	KW 079		12.5	5.0NSH	LTHORESBY,NOTTS		1
31757.42	466.73/ 373.81	3.8 1.1			53.257	-1.000	2
4 35 290 0.36	0.0 0.0 D C*D	COALFIELD TYPE					3
CWF Z 031808.22		P 2E 15.38		S 2I			61
CWF NS0318				09.0H0.12ML		0.25 200	61
CWF EW0318				08.0H0.11ML		0.25 200	61
KWE Z 031808.65		P 2E					62
KBI Z 031803.35		P 2I					35
-1							
121189LANCS+	LA 018		12.5	5.0JAR	LWARRINGTON,CHESHIRE		1
1028 5.62	363.12/ 390.77	0.3 1.4			53.412	-2.555	2
15 49 174 0.23	0.9 1.0 C B*C	COALFIELD TYPE					3
LLO Z 102814.57		P 3E					49
LLY Z 102814.75		P 3E 21.16		S 3			49
LBO Z 102816.98		P 3E					63
LKL Z 102821.38		P 3E 32.29		S 3			90
LMI Z 102823.70		P 3E 36.41		S 3			103
LMI NS1028				9.0H0.20ML		0.25 200	103
LMI EW1028				10.3H0.24ML		0.25 200	103
LCK Z 102824.35		P 3E 36.90		S 3			108
HPK Z 102820.20		P 3 31.82		S 3			86
CWF Z 1028		P 4					112
CWF NS1028				6.5H0.17ML		0.25 200	112
CWF EW1028				8.4H0.15ML		0.25 200	112
SBD Z 102818.50		P 3E 28.25		S 3			73
WLC Z 102822.55		P 4E 33.60		S 3			94
WLC NS1028				2.7H0.15ML		0.25 200	94
WLC EW1028				3.0H0.12ML		0.25 200	94
-1							
121189LANCS+	LA 018		12.5	5.0JAR	LCONISTON,CUMBRIA		1
162721.23	329.87/ 499.56	5.4 0.6			54.387	-3.080	2
11 14 101 0.20	0.8 1.6 C B*C						3
LCK Z 162724.15		P 1IU25.90		S 3			14
LMI Z 162725.82		P 1IU29.05		S 3			24
LMI NS1627				4.2H0.10ML		1.0 200	24
LMI EW1627				4.6H0.10ML		1.0 200	24
LKL Z 162728.45		P 2E 33.35		S 3			40
XDE Z 162726.72		P 3E 30.46		S 3			30
XAL Z 162734.99		P 3E					77
ECK Z 162736.56		P 3E					89
ESK Z 1627		P 4 50.85		S 3			104
ESK NS1627				2.5H0.09ML		0.25 200	104
ESK EW1627				2.1H0.12ML		0.25 200	104
-1							
171189LANCS+	LA 019		12.5	5.0JAR	LWARRINGTON,CHESHIRE		1
2240 8.84	362.69/ 391.76	0.1 1.6			53.421	-2.561	2
21 48 86 0.31	0.9 1.3 C C*C	COALFIELD TYPE					3
LLO Z 224017.38		P 2EU24.12		S 4			48
LLY Z 224017.70		P 3E					48
LBO Z 224019.82		P 2ED					62
LKL Z 224024.38		P 2ED					89
LMI Z 224026.80		P 2ED39.39		S 3			102
LMI NS2240				12.8H0.20ML		0.25 200	102
LMI EW2240				13.4H0.21ML		0.25 200	102

LCK Z 224027.20	P 3E 39.89	S 3						106
HPK Z 224023.95	P 2EU34.91	S 3						86
CWF Z 2240	4 42.08	S 3						113
CWF NS2240				8.1H0.20ML		0.25 200		113
CWF EW2240				10.4H0.17ML		0.25 200		113
SBD Z 224021.60	P 3E							74
MCH Z 224036.00	P 3E 54.55	S 3						161
WPM Z 224025.17	P 3E							91
YLL Z 224028.02	P 3E							112
WME Z 224028.70	P 3E 42.88	S 4						116
WCB Z 224030.71	P 3E 46.50	S 3						132
WCB NS2240				3.5H0.20ML		0.25 200		132
WCB EW2240				2.7H0.30ML		0.25 200		132
YRE Z 224031.15	P 3E							134
WLC Z 224024.50	P 3E							94
-1								
181189 LOWNET+	LN 671 1169	12.5	5.0DWR	LROSEWELL,LOTHIAN				1
212448.79	330.24/ 662.91	1.0 0.4		55.854 -3.115				2
9 3 113 0.05	0.3 0.3 B A*B	COALFIELD TYPE						3
RCH Z 212449.58	P 0ID49.97	S 2E	5.9H0.12M		1.0 4			3
RCH NS2124	E		EU 2.5H0.17M		1.0 4			3
RCH EW2124	ED		E 3.5H0.20M		1.0 4			3
EDI Z 212451.01	P 1IU52.66	S 2EU	14.8H0.31M		0.25 200			9
EDI NS2124	EU		ED 8.3H0.70ML		0.25 200			9
EDI EW2124	E		EU10.7H0.31ML		0.25 200			9
EBL Z 212451.20	P 1ID53.09	S 3EU						10
EAU Z 212453.02	P 4E 56.30	S 3E						21
ESY Z 212454.27	P 3E 59.48	S 3E						32
EBH Z 212458.30	P 3E							50
-1								
191189 CORNWALL+			5.0	LLUNDY,BRISTOL CHANNEL				1
164737.74	203.49/ 146.34	1.6 1.1		51.182 -4.812				2
8 31 287 0.01	1.2 0.9 C B*D							3
CR2 Z 164757.02	P 1 71.15	S 2						116
CR2 NS1647			13.0H0.05ML		0.25 200			116
CR2 EW1647			14.5H0.05ML		0.25 200			116
CCA Z 164756.85	P 1 D70.80	S 2						115
CBW Z 164757.23	P 1 D							117
CPZ Z 164758.70	P 1E							127
HTL Z 164743.62	P 1 D47.90	S 1						31
HTL NS1647			8.5 H0.09ML		1.0 200			31
HTL EW1647			7.2 H0.07ML		1.0 200			31
-1								
201189KEYWORTH	KW 080		5.0NSH	LTHORESBY,NOTTS				1
203538.56	460.79/ 369.16	3.9 1.3		2+ 53.216 -1.090				2
4 30 277 0.09	0.0 0.0 C A*D	COALFIELD TYPE,FELT		THORESBY				3
CWF Z 203548.22	P 3E 55.20	S 1I						55
CWF NS2035			15.5H0.11ML		0.25 200			55
CWF EW2035			15.0H0.12ML		0.25 200			55
KWE Z 203548.46	P 3E							55
KBI Z 203544.00	P 2E							30
-1								
241189 LOWNET	LN 672 656	12.5	5.0DWR	LLASSWADE,LOTHIAN				1
85137.78	329.98/ 665.62	1.7 0.2		55.879 -3.119				2
6 4 198 0.02	0.5 0.4 C A*D	COALFIELD TYPE						3
RCH Z 085138.75	P 1IU39.50	S 2E	6.8H0.14M		0.25 4			4
RCH EW0851	EU		EU 7.5H0.24M		0.25 4			4
EDI Z 085139.45	P 1ID40.69	S 2EU	7.4H0.29M		0.25 200			7
EDI NS0851	ID		EU10.5H0.15ML		0.25 200			7
EDI EW0851	EU		ED10.5H0.55ML		0.25 200			7
EBL Z 085140.59	P 2E 42.51	S 3E						13
-1								
251189 LOWNET	LN 672 938	12.5	5.0DWR	LCOMRIE,TAYSIDE				1
44630.80	272.47/ 721.03	1.6-0.4		56.364 -4.065				2
6 25 201 0.06	0.6 0.6 C A*D							3
EAB Z 044635.90	P 3E 39.47	S 3E	1.2H0.11ML		0.25 200			26
EBH Z 044637.60	P 3E 42.72	S 3E	1.4H0.13ML		0.25 200			37
ELO Z 044635.56	P 3E 39.20	S 3E	2.5H0.09ML		0.25 200			25
-1								
251189KEYWORTH	KW 081	12.5	5.0NSH	LTHORESBY,NOTTS				1
1541 0.99	462.72/ 370.60	3.5 1.1		53.228 -1.060				2
4 31 281 0.06	0.0 0.0 C A*D	COALFIELD TYPE						3
CWF Z 154111.00	P 3E 17.98	S 1I						57
CWF NS1541			11.5H0.09ML		0.25 200			57
CWF EW1541			12.0H0.10ML		0.25 200			57
KWE Z 154111.12	P 3E							57
KBI Z 154106.75	P 2I							31
-1								
261189 LOWNET+	LN 672 1287	12.5	5.0DWR/DG	LBROXBURN,LOTHIAN				1
612 7.18	311.12/ 672.28	3.4 0.6		55.935 -3.423				2
11 10 101 0.13	0.5 3.8 C B*C							3
EAU Z 061209.56	P 0IU10.81	S 2EU						10
EDI Z 061210.22	P 1EU12.42	S 1EU	4.6H0.12M		1.0 200			15

EDI NS0612	E	IU 4.0H0.16ML	1.0	200	15
EDI EW0612	IU	EU 6.0H0.18ML	1.0	200	15
EBL Z 061212.80	P 2EU16.51	S 2E			30
EBH Z 061213.60	P 1IU18.30	S 2E			35
PCO Z 061214.83	P 3E 18.81	S 4E			43
ESY Z 061215.91	P 3E				51
PCA Z 061218.96	P 3E				58
EDU Z 061219.79	P 3E				73
PGB Z 061219.86	P 3E 27.30	S 3E			68
PGB NS0612	E	E 5.3H0.10ML	0.25	200	68
PGB EW0612	E	E 3.9H0.10ML	0.25	200	68
-1					
291189HEREFORD	HF 547	12.5	5.0NSH	LHEREFORD,HER & WORC	1
53318.36	352.64/ 239.17	1.0 1.0		52.048 -2.691	2
4 10 182 0.03	0.0 0.0 C A*D				3
MCH Z 053322.82	P 1IU	S 1I			22
MCH NS0533		06.4H0.14ML	02.5	200	22
MCH EW0533		05.5H0.11ML	02.5	200	22
HAE Z 053320.78	P 1ID				10
HGH Z 053326.94	P 2ED				46
HTR Z 053325.32	P 3E				40
-1					
011289LANCS+	LA021	12.5	5.0JAR	LWARRINGTON,CHESHIRE	1
34441.79	361.97/ 392.94	0.2 1.2		53.432 -2.572	2
15 46 107 0.10	0.3 0.5 B A*C COALFIELD TYPE				3
LLO Z 034450.23	P 3 57.00	S 3			47
LLY Z 034450.44	P 2EU57.00	S 3			46
LBO Z 034452.70	P 2EU				61
LKL Z 034457.18	P 2ED68.11	S 3			88
LMI Z 034459.50	P 3E 72.02	S 3			100
LMI NS0344		6.3H0.20ML	0.25	200	100
LMI EW0344		7.7H0.22ML	0.25	200	100
LCK Z 034460.11	P 3E 72.68	S 3			105
HPK Z 034456.68	P 3E				86
CFW Z 0344	4 75.40	S 3			115
CFW NS0344		4.4H0.15ML	0.25	200	115
CFW EW0344		5.1H0.17ML	0.25	200	115
WLC Z 0344	4 69.90	S 3			94
WLC NS0344		2.7H0.11ML	0.25	200	94
WLC EW0344		2.2H0.18ML	0.25	200	94
WPM Z 034457.40	P 3E				91
-1					
011289KEYWORTH	KW 082	12.5	5.0NSH	LTHORESBY,NOTTS	1
41534.94	461.35/ 369.83	4.5 1.1		2+ 53.222 -1.081	2
5 30 214 0.11	0.8 1.6 C A*D COALFIELD TYPE,FELT			THORESBY	3
CFW Z 041544.66	P 3E 51.68	S 1I			56
CFW NS0415		09.4H0.11ML	0.25	200	56
CFW EW0415		10.0H0.12ML	0.25	200	56
KWE Z 041544.9	P 3E				56
KBI Z 041540.45	P 2E				30
KSY Z 041542.85	P 3E				44
-1					
051289N WALES			5.0RITCHIELANGLESEY,GWYNEDD		1
19 046.11	249.71/ 399.02	13.0-0.4		53.466 -4.264	2
7 8 316 0.01	0.3 0.2 C A*D NORTHEAST OF ANGLESEY				3
WCB Z 190050.3	P 1IU53.10	S 3			21
WCB NS1900		4.6 H0.09ML	0.25	200	21
WCB EW1900		4.0 H0.07ML	0.25	200	21
YRC Z 190051.86	P 1IU				32
WLF Z 190050.32	P 1IU53.23	S 2			22
WME Z 190048.69	P 1IU50.46	S 1			8
-1					
061289 LOWNET	LN 673	2292	12.5	5.0DWR	LGLADHOUSE RES,LOTHIAN
62929.80	331.69/ 652.19	6.1-0.3		55.758 -3.089	2
8 3 233 0.10	1.0 0.5 C A*D				3
EBL Z 062931.23	P 0IU32.16	S 2EU			3
EDI Z 062933.90	P 3E 36.41	S 3E	2.0H0.22M	0.25 200	19
EDI NS0629	E	E	2.8H0.18ML	0.25 200	19
EDI EW0629	E	E	2.5H0.18ML	0.25 200	19
EAU Z 062934.61	P 2EU37.72	S 3E			25
ESY Z 062936.10	P 3E 40.60	S 3E			35
-1					
071289KEYWORTH	KW 083	12.5	5.0NSH	LTHORESBY,NOTTS	1
03152.12	460.80/ 369.57	7.0 0.9		2+ 53.219 -1.089	2
5 30 212 0.09	2.8 11.3 D C*D COALFIELD TYPE,FELT			THORESBY	3
CFW Z 003162.0	P 3E 68.50	S 2I			56
CFW NS0031		06.0H0.10ML	0.25	200	56
CFW EW0031		04.5H0.15ML	0.25	200	56
KSY Z 003159.8	P 2E				44
KWE Z 003161.5	P 3E				55
KBI Z 003157.6	P 3E				30
-1					
081289 LOWNET	LN 674	724	12.5	5.0DWR	LBLAIRHALL,FIFE
					1

14	633.03	297.93/ 692.07	0.1	1.4		56.111	-3.641	2
13	17 123 0.13	0.3	0.4	B A*C	COALFIELD TYPE			3
EBH	Z 140636.73	P 1IU39.72			S 2ED			17
EAU	Z 140639.20	P 3E 44.00			S 3E			32
EDI	Z 140639.86	P 2E 45.11			S 2EU 6.5H0.50M	0.25	200	35
EDI	NS1406	E			ED15.0H0.32ML	0.25	200	35
EDI	EW1406	E			ED18.5H0.29ML	0.25	200	35
ELO	Z 140640.71	P 2EU46.62			S 2EU			40
EAB	Z 140641.30	P 3E 47.72			S 3ED			44
EBL	Z 140642.60	P 3E 50.01			S 2EU			53
EDU	Z 140644.30	P 3E						62
	-1							
081289N	WALES+				5.0RITCHIELCARDIGAN BAY			1
	231257.26	216.04/ 315.73	19.1	0.9		52.708	-4.723	2
22	15 149 0.23	1.1	1.9	C B*C				3
WCB	Z 231310.02	P 3E 18.40			S 3			76
WCB	NS2313				8.0 H0.07ML	0.25	200	76
WCB	EW2313				6.0 H0.11ML	0.25	200	76
YRC	Z 231307.77	P 2E 14.99			S 2			61
YRE	Z 231304.00	P 1IU						37
WPM	Z 231310.48	P 3E 20.21			S 3			82
WLF	Z 231308.65	P 3E						68
YLL	Z 231307.50	P 1IU14.62			S 2			61
WLC	Z 231308.92	P 3E 17.07			S 3			71
WLC	NS2313				8.0 H0.1 ML	0.25	200	71
WLC	EW2313				4.5 H0.07ML	0.25	200	71
YRH	Z 231301.55	P 1IU						15
WVR	Z 231309.70	P 3E 18.60			S 2			76
WBR	Z 231307.03	P 2E 13.82			S 2			58
WST	Z 231307.05	P 2E						58
WFB	Z 231305.41	P 2E 11.09			S 2			46
ECP	Z 231317.3	P 2E 32.0			S 3			127
	-1							
091289L	LANCS+	LA 022		12.5	5.0JAR	LCULCHETH,MANCHESTER		1
	12446.27	367.50/ 396.93	0.4	1.0		53.468	-2.490	2
13	43 241 0.30	3.1	3.1	D C*D	COALFIELD TYPE			3
LLO	Z 012454.19	P 3E						43
LLY	Z 012454.52	P 3E 61.00			S 3			46
LBO	Z 012456.59	P 3E						57
LKL	Z 012460.88	P 3E						84
LMI	Z 012463.78	P 3E 76.17			S 3			100
LMI	NS0124				2.7 0.22 ML	0.25	200	100
LMI	EW0124				4.1 0.28 ML	0.25	200	100
LCK	Z 012464.08	P 3E						102
HPK	EW0124	4 70.32			S 3			
WPM	Z 012462.68	P 3E 75.44			S 3			97
YRE	Z 012468.97	P 3E						140
WLC	Z 012463.67	P 3E						101
WLC	NS0124				1.5H0.12ML	0.25	200	101
WLC	EW0124				1.6H0.18ML	0.25	200	101
WST	Z 012465.20	P 3E						114
	-1							
091289K	KEYWORTH	KW 083		12.5	5.0NSH	LTHORESBY,NOTTS		1
	182043.37	464.20/ 370.22	2.5	1.1		53.225	-1.038	2
5	33 218 0.17	3.0	3.6	D C*D	COALFIELD TYPE			3
CWF	Z 182053.65	P 3E 60.7			S 1I			57
CWF	NS1820				11.0H0.11ML	0.25	200	57
CWF	EW1820				07.0H0.15ML	0.25	200	57
KSY	Z 182050.8	P 3E						42
KWE	Z 182053.9	P 3E						59
KBI	Z 182049.2	P 3E						33
	-1							
101289	LOWNET+	LN 674	1227	12.5	5.0DWR	LTYNDRUM,CENTRAL		1
	24654.33	226.20/ 729.08	0.6	0.7		56.422	-4.818	2
12	64 267 0.40	4.9	3.6	D C*D				3
EAB	Z 024654.80	P 4E 61.60			S 4E 1.5H0.22M	0.25	200	39
ELO	Z 024706.33	P 2E 19.10			S 3E 2.2H0.16M	0.25	200	69
EBH	Z 024707.75	P 3E 20.00			S 3E			83
EDU	Z 024713.00	P 3E 27.70			S 3E			112
EDI	Z 024713.10	P 3E 27.30			S 3E 1.0H0.19M	0.25	200	116
EDI	NS0247	E			E 1.1H0.16ML	0.25	200	116
EDI	EW0247	E			E 1.0H0.16ML	0.25	200	116
PMS	Z 024705.91	P 3E 14.34			S 2			64
PCO	Z 024706.31	P 2E 14.90			S 3 1.9H0.15M	0.25	200	66
	-1							
101289	LOWNET	LN 674	1256	12.5	5.0DWR	LINNERLEITHEN,BORDERS		1
	45118.09	338.45/ 636.88	8.5	0.5		55.622	-2.977	2
7	17 275 0.24	3.1	11.6	D C*D				3
EBL	Z 045121.58	P 0ID24.31			S 2ED			17
EAU	Z 045124.43	P 1ID						39
EDI	Z 045124.95	P 3E 29.22			S 2E 1.5H0.25M	0.25	200	36
EDI	NS0451	E			EU 3.2H0.26ML	0.25	200	36
EDI	EW0451	E			EU 2.6H0.25ML	0.25	200	36

ESY Z 045125.33	P 1IU30.10	S 3E			40
-1					
131289LANCS+	LA 022	12.5	5.0JAR	LCULCHETH, MANCHESTER	1
42256.05	367.23/ 395.58	0.5 1.3		53.456 -2.494	2
18 44 67 0.25	0.9	1.6 C B*C	COALFIELD TYPE		3
LLO Z 042304.00	P 3E				44
LLY Z 042304.52	P 3E 11.20	S 3			47
LBO Z 042306.56	P 3E				59
LKL Z 042310.98	P 3E				85
LMI Z 042313.78	P 3E 26.27	S 3			101
LMI NS0423			6.6 0.23 ML	0.25 200	101
LMI EW0423			7.9 0.28 ML	0.25 200	101
LCK Z 042313.96	P 3E 26.63	S 3			104
HPK Z 042310.29	P 3E 20.11	S 3			80
KWE Z 042307.70	P 3E				66
KBI Z 042308.33	P 3E				68
CWF Z 042316.11	P 4 30.63	S 4			113
CWF NS0423			4.1H0.22ML	0.25 200	113
CWF EW0423			3.2H0.26ML	0.25 200	113
SBD Z 042309.40	P 3E				80
HLM Z 042314.53	P 3E				108
WVR Z 042313.48	P 3E				105
WLC Z 042313.43	P 3E				100
WLC NS0423			2.6H0.15ML	0.25 200	100
WLC EW0423			2.9H0.19ML	0.25 200	100
WPM Z 042312.89	P 3E				96
-1					
131289LANCS+	LA 022	12.5	5.0JAR	LWARRINGTON, CHESHIRE	1
93030.48	361.35/ 391.96	0.1 1.6		53.423 -2.582	2
22 47 86 0.25	0.6	1.0 C B*C	COALFIELD TYPE		3
LLO Z 093039.12	P 3E 45.78	S 3			48
LLY Z 093039.21	P 2IU45.80	S 3			47
LBO Z 093041.38	P 3E				62
LKL Z 093045.98	P 2ED				89
LMI Z 093048.33	P 2EU61.03	S 3			101
LMI NS0930			4.9H0.18ML	1.0 200	101
LMI EW0930			5.4H0.21ML	1.0 200	101
LCK Z 093048.78	P 2ED				106
HPK Z 093045.38	P 3E 56.60	S 3			87
CWF Z 0930	P 4 64.10	S 3			114
CWF NS0930			9.2H0.20ML	0.25 200	114
CWF EW0930			13.5H0.17ML	0.25 200	114
SBD Z 093042.55	P 3E				73
MCH Z 093057.46	P 3E 76.18	S 3			161
WLC Z 093046.72	P 3E 58.26	S 3			93
WLC NS0930			4.7H0.13ML	0.25 200	93
WLC EW0930			5.0H0.17ML	0.25 200	93
WVR Z 093047.17	P 3E 59.06	S 3			98
WPM Z 093046.35	P 3E				90
WCB Z 093052.48	P 3E 68.33	S 3			131
YRE Z 093052.74	P 3E 69.24	S 3			133
-1					
161289ESK	ES 452	12.5	5.0DG	LCROGLIN FELL, CUMBRIA	1
12333.62	359.16/ 549.13	4.9 0.8		54.835 -2.636	2
10 27 153 0.16	1.2	2.5 C B*C			3
XAL Z 012338.78	P 0IU42.21	S 2			27
ECK Z 012342.35	P 2ED48.44	S 3			50
ESK Z 012344.85	P 2E 52.45	S 3			65
ESK NS0123			5.2H0.08ML	0.25 200	65
ESK EW0123			7.0H0.08ML	0.25 200	65
XDE Z 012345.10	P 3E 53.05	S 2			66
XSO Z 012347.00	P 3E 56.09	S 2			77
-1					
161289KEYWORTH	KW 084	12.5	5.0NSH	LTHORESBY, NOTTS	1
45424.81	460.10/ 367.06	0.7 1.2		2+ 53.197 -1.101	2
4 29 272 0.07	0.0	0.0 C A*D	COALFIELD TYPE, FELT	THORESBY	3
CWF Z 045434.58	P 3E 41.65	S 1I			53
CWF NS0454			17.0H0.10ML	0.25 200	53
CWF EW0454			10.0H0.15ML	0.25 200	53
KWE Z 045434.80	P 3E				54
KBI Z 045430.51	P 2E				29
-1					
171289KEYWORTH+	KW 084	12.5	5.0NSH	LSTOKE-ON-TRENT, STAFFS	1
73248.90	390.55/ 348.61	7.7 1.8		53.124 -2.141	2
10 23 168 0.24	1.3	2.9 C B*C			3
CWF Z 073261.05	P 3E 69.26	S			71
CWF NS0732			07.1H0.23ML	01.0 200	71
CWF EW0732			05.5H0.15ML	01.0 200	71
KWE Z 073253.60	P 3E				23
KBI Z 073256.40	P 2E				44
WLC Z 073307.22	P 2E 19.70	S			111
WLC NS0733			16.0H0.21ML	0.25 200	111
WLC EW0733			10.5H0.18ML	0.25 200	111

YRH Z 073316.00	P 1ID							170
WVR Z 073305.92	P 2E							105
WBR Z 073308.56	P 2E							121
WFB Z 073310.60	P 2E							137
-1								
181289KEYWORTH+	KW 084			5.0NSH	LSTOKE-ON-TRENT,STAFFS			1
16 220.41	387.25/ 349.04	2.5	1.7		53.038	-2.190		2
5 24 163 0.04	0.9 1.3 C A*D							3
CWF Z 160232.25	P 2E 40.74			S 1I				68
CWF NS1602					08.0H0.12ML		1 200	68
CWF EW1602					06.5H0.11ML		1 200	68
KWE Z 160224.78	P 2I							24
KBI Z 160229.44	P 1IU							51
SBD Z 160232.95	P 1ID							73
-1								
191289 LOWNET+	LN 675 2049	12.5		5.0DWR	LRYPHOPE,TYNE & WEAR			1
14 251.29	446.81/ 552.69	0.5	1.8		54.867	-1.271		2
15 61 285 0.25	4.2 3.2 D C*D OFFSHORE,COALFIELD TYPE							3
ESY Z 140315.10	P 2E 32.61			S 3E				145
EBL Z 140316.00	P 2E 34.50			S 3E				151
EDI Z 140319.02	P 3E 40.10			S 3E	9.6H0.21M		0.25 200	169
EDI NS1403	E			E	8.2H0.16ML		0.25 200	169
EDI EW1403	E			E	5.9H0.31ML		0.25 200	169
EAU Z 140319.52	P 2E							176
EBH Z 140323.71	P 3E							209
EDU Z 140324.92	P 3E							217
ELO Z 140326.78	P 3E							236
XAL Z 140301.98	P 1ID							61
XSO Z 140307.43	P 1IU							94
ECK Z 140312.20	P 2E							124
ESK Z 140313.61	P 1IU29.85			S 3				133
ESK NS1403					10.7H0.12ML		0.25 200	133
ESK EW1403					7.6H0.14ML		0.25 200	133
XDE Z 140316.28	P 3E							149
-1								
191289N WALES				5.0RITCHIELIRISH SEA				1
2150 7.39	206.03/ 409.37	9.5	0.1		53.545	-4.928		2
8 31 320 0.06	1.4 4.0 C B*D							3
WCB Z 215012.99	P 1IU16.70			S 1				31
WCB NS2150					5.6 H0.07ML		0.25 200	31
WCB EW2150					8.7 H0.06ML		0.25 200	31
YRC Z 215014.27	P 1ID19.11			S 2				40
YRE Z 215019.46	P 2E							71
WLF Z 215015.14	P 1IU20.29			S 3				45
WME Z 215015.00	P 4E 20.26			S 1				45
WLC NS2150	35.40			S 2				
-1								
221289KEYWORTH+	KW 085	12.5		5.0NSH	RSOUTHERN NORTH SEA			1
113844.74	605.94 462.71	30.1	2.6		54.019	1.144		2
21126 220 0.29	2.0 3.2 C B*D							3
CWF Z 113915.24	P 3E 37.54			S 3				217
CWF NS1139					14.0H0.10ML		0.25 200	217
CWF EW1139					18.5H0.10ML		0.25 200	217
KSY Z 113909.25	P 2E							164
KWE Z 113916.60	P 3E							227
KBI Z 113912.84	P 2E							196
AWI Z 113904.69	P 2 20.05			S 2	12.6H0.07ML		2.5 200	134
ABA Z 113904.04	P 2 19.89			S 4	12.6H0.07ML		2.5 200	126
AWH Z 113907.45	P 2 24.07			S 2				155
APA Z 113912.10	P 2							193
ESY Z 113928.37	P 2E 58.88			S 3E				320
EBL Z 113930.00	P 2E 61.15			S 3E				332
EDI Z 113931.70	P 3E 66.10			S 2E	1.5H0.18M		1.0 200	349
EDI NS1139	E			E	4.1H0.20ML		1.0 200	349
EDI EW1139	E			E	2.4H0.19ML		1.0 200	349
XSO Z 113922.74	P 2E 49.50			S 3				273
ESK Z 113928.20	P 3E 58.69			S 2				315
ESK NS1139					12.0H0.10ML		0.25 200	315
ESK EW1139					12.0H0.10ML		0.25 200	315
-1								
241289 LOWNET+	LN 676 916	12.5		5.0DWR	LSTRATHYRE,CENTRAL			1
22240.47	257.50/ 713.52	3.1	0.5		56.293	-4.303		2
8 12 230 0.26	3.9 4.9 D C*D							3
EAB Z 022243.08	P 3E 44.52			S 2EU	15.0H0.08M		0.25 200	12
ELO Z 022248.09	P 2E 52.80			S 3E	2.7H0.15M		0.25 200	42
EBH Z 022249.48	P 3E 55.91			S 3E	1.4H0.10M		0.25 200	49
EDU Z 022254.72	P 3E							85
EDI Z 022254.90	P 4E 65.50			S 3E	1.3H0.12M		0.25 200	81
EDI NS0222	E			E	2.3H0.08ML		0.25 200	81
EDI EW0222	E			E	2.0H0.11ML		0.25 200	81
PCO Z 022247.36	P 3E							36
-1								
241289KEYWORTH+	KW 085	12.5		5.0NSH	RSOUTHERN NORTH SEA			1

	34712.22	676.88	360.66	8.7	2.0		53.071	2.134	2
7 53	314 0.32	5.2 93.1	D D*D						3
CWF Z	034747.65		P 4E 74.95	S	4				235
CWF	NS0347					11.0H0.10ML	0.25 200		235
CWF	EW0347					05.5H0.10ML	0.25 200		235
KSY Z	034741.82		P 4I 64.26	S	4				183
KUF Z	034740.40		P 4ID62.80	S	4				178
APA Z	034728.15		P 1 39.48	S	2				97
AWH Z	034728.31		P 1						94
AWI Z	034721.11		1 28.19		2	11.6H0.13ML	2.5 200		53
ABA Z	034723.30		P 1 32.00	S	3				69
	-1								
251289	LOWNET	LN 676	1301	12.5		5.0DWR		LBROXBURN,LOTHIAN	1
	62212.54	311.01/	672.33	2.6	0.1		55.936	-3.425	2
8 10	161 0.10	0.5136.9	C C*C						3
EAU Z	062214.87		P 0IU16.19	S	2ED				10
EDI Z	062215.55		P 1IU17.70	S	2E	5.5H0.19M	0.25 200		15
EDI	NS0622		E			EU 7.0H0.19ML	0.25 200		15
EDI	EW0622		EU			EU 8.8H0.16ML	0.25 200		15
EBL Z	062218.06		P 2EU22.11	S	2EU				30
EBH Z	062218.99		P 3E 23.58	S	3E				35
	-1								
281289	LOWNET+	LN 677	119	12.5		5.0DWR		LESKDALE,D & G	1
	153615.35	335.77/	598.56	0.2	0.5		55.277	-3.011	2
10 13	195 0.27	1.4	1.5 C B*D						3
EBL Z	153625.68		P 3E 33.20	S	2E				55
EDI Z	153627.64		P 3E 37.52	S	2E	0.7H0.21M	0.25 200		73
EDI	NS1536		E			E 1.5H0.21ML	0.25 200		73
EDI	EW1536		E			E 1.5H0.29ML	0.25 200		73
EAU Z	153626.00		P 3E						69
ESY Z	153629.70		P 3E 40.91	S	3E				76
ESK Z	153618.31		P 0IU20.89	S	1				13
ESK	NS1536					5.0H0.11ML	1.0 200		13
ESK	EW1536					5.5H0.11ML	1.0 200		13
ECK Z	153618.30		P 3E 20.71	S	2				13
	-1								
281289N	WALES					5.0RITCHIELLLEYN,GWYNEDD			1
	2036 1.88	238.58/	343.46	22.4	1.3		52.964	-4.404	2
20 2	181 0.11	0.5	0.8 C A*D			LLEYN AFTERSHOCK			3
WCB Z	203610.40		P 2E 16.12	S	2				47
WCB	NS2036					4.5 H0.06ML	1.0 200		47
WCB	EW2036					4.9 H0.07ML	1.0 200		47
YRC Z	203608.46		P 1ID13.03	S	1				34
YRE Z	203605.60		P 1ID						2
WPM Z	203610.19		P 1IU16.30	S	2				47
WLF Z	203608.64		P 1ID13.40	S	1				36
WME Z	203610.50		P 1IU						49
YLL Z	203607.26		P 1IU10.89	S	1				25
WLC Z	203609.60		P 1IU15.02	S	1				42
WLC	NS2036					8.0 H0.08ML	2.5 200		42
WLC	EW2036					6.9 H0.09ML	2.5 200		42
WVR Z	203611.47		P 3E						57
WBR Z	203608.71		P 1IU13.46	S	1				36
WST Z	203607.64		P 1IU						28
WFB Z	203609.50		P 2E 14.29	S	2				40
	-1								
281289	ESK	ES 454		12.5		5.0DG		LNEWCASTLETON,BORDERS	1
	224028.78	359.73/	601.13	2.5	0.1		55.303	-2.634	2
6 32	198 0.09	2.0	1.2 C B*D						3
XSO Z	224034.75		P 1IU38.99	S	2				32
ECK Z	224034.87		P 1IU39.80	S	3				34
ESK Z	224035.48		P 1IU40.20	S	2				36
ESK	NS2240					4.0H0.09ML	0.25 200		36
ESK	EW2240					3.1H0.08ML	0.25 200		36
	-1								
291289	KEYWORTH	KW 086		12.5		5.0NSH		LBUXTON,DERBYSHIRE	1
	15 336.88	419.74/	377.93	1.0	1.6		53.298	-1.704	2
4 13	276 0.12	0.0	0.0 C A*D						3
CWF Z	150349.15		P 2I 57.6	S	1I				68
CWF	NS1503					10.5H0.25ML	0.25 200		68
CWF	EW1503					15.0H0.20ML	0.25 200		68
KWE Z	150342.98		P 2E						33
KBI Z	150339.75		P 2I						13
	-1								
301289	ESK	ES 454		12.5		5.0DG		LMOFFAT,D & G	1
	123340.03	309.47/	596.32	9.6	-0.3		55.253	-3.424	2
4 16	310 0.07	0.0	0.0 C A*D						3
ESK Z	123343.31		P 0IU45.87	S	1				16
ESK	NS1233					5.0H0.10ML	0.25 200		16
ESK	EW1233					5.6H0.09ML	0.25 200		16
ECK Z	123344.17		P 1ID46.99	S	1				21
	-1								
311289N	WALES					5.0RITCHIELLLEYN,GWYNEDD			1

	713	1.36	240.42/	343.06	21.9	0.7	52.961	-4.376	2
15	4	161	0.10	0.5	0.9	B A*C LLEYN AFTERSHOCK			3
WLC	Z	071308.72		P	1IU13.88	S			40
WLC	NS0713						11.1H0.15ML	0.25 200	40
WLC	EW0713						6.1 H0.08ML	0.25 200	40
WBR	Z	071308.20		P	3E 12.42	S			35
WST	Z	071306.79		P	1IU10.70	S			26
WFB	Z	071308.68		P	2E 13.25	S			38
YRC	Z	071307.97		P	3E 12.66	S			35
YRE	Z	071305.00		P	1ID				4
WLF	Z	071308.35		P	2E 12.84	S			37
YLL	Z	071306.77		P	2E 10.20	S			24
		-1							




TABLE 6 : Typical depth / crustal velocity for Britain

Depth to top of layer (km)	P-wave velocity (km/s)
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

DEPTHS (kms)

		< 50
	50 ≤ AND < 99	
	99 ≤	

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

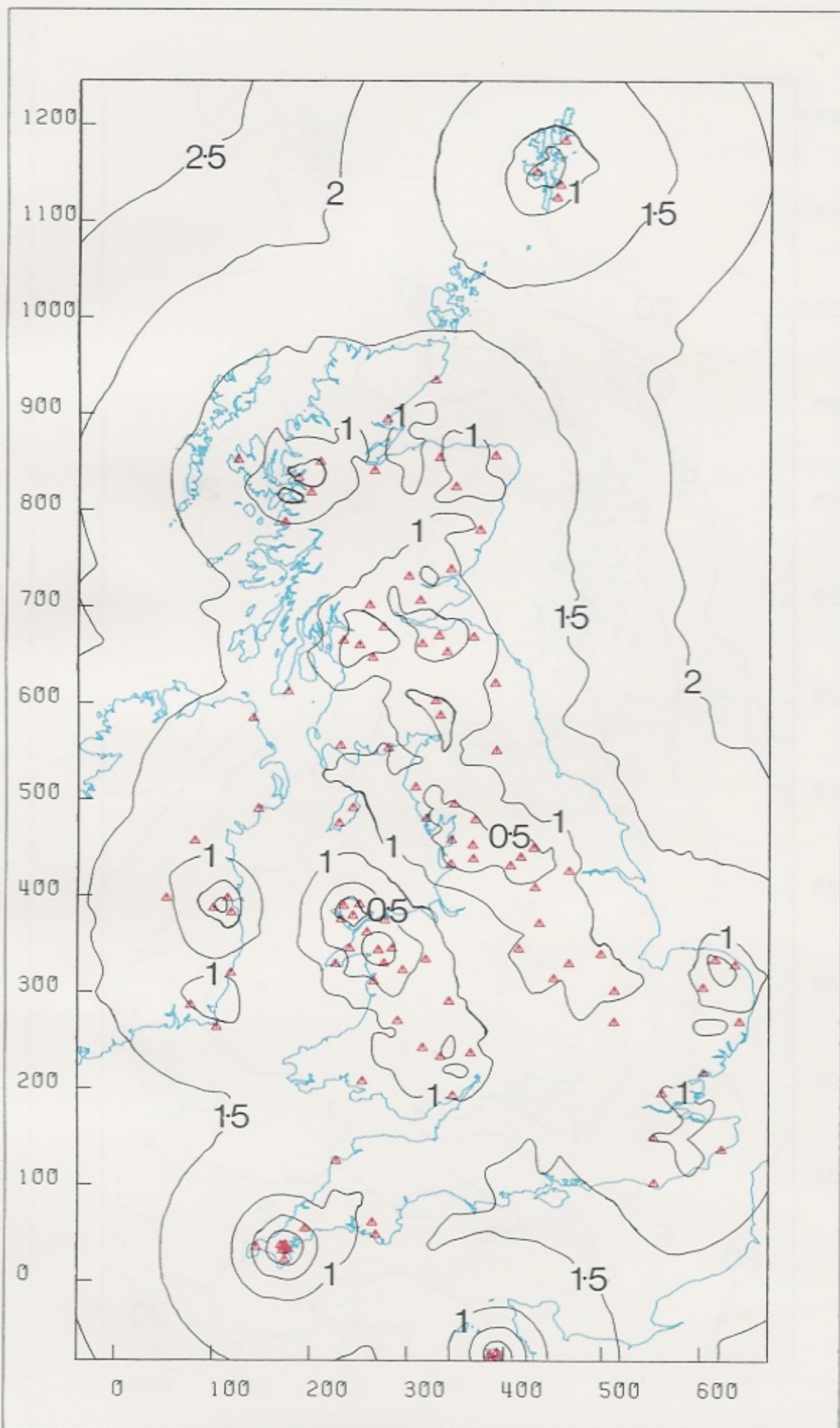


Fig.1 : BGS and DIAS seismographs (\blacktriangle) 1989, and their detection capabilities for magnitudes in 0.5ML steps, with average noise conditions

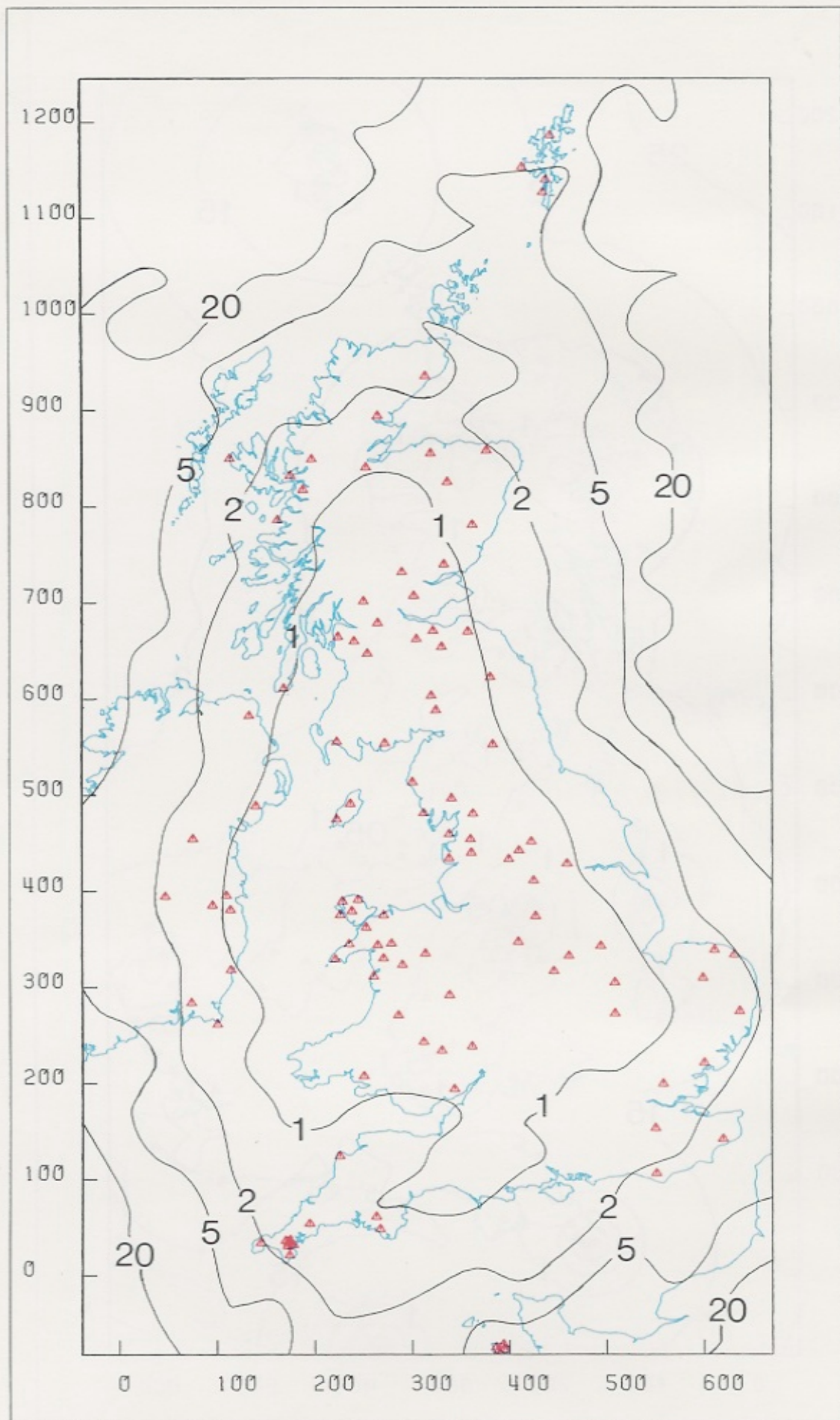


Fig.2 : Theoretical epicentral location errors in km for a magnitude 2.0ML earthquake

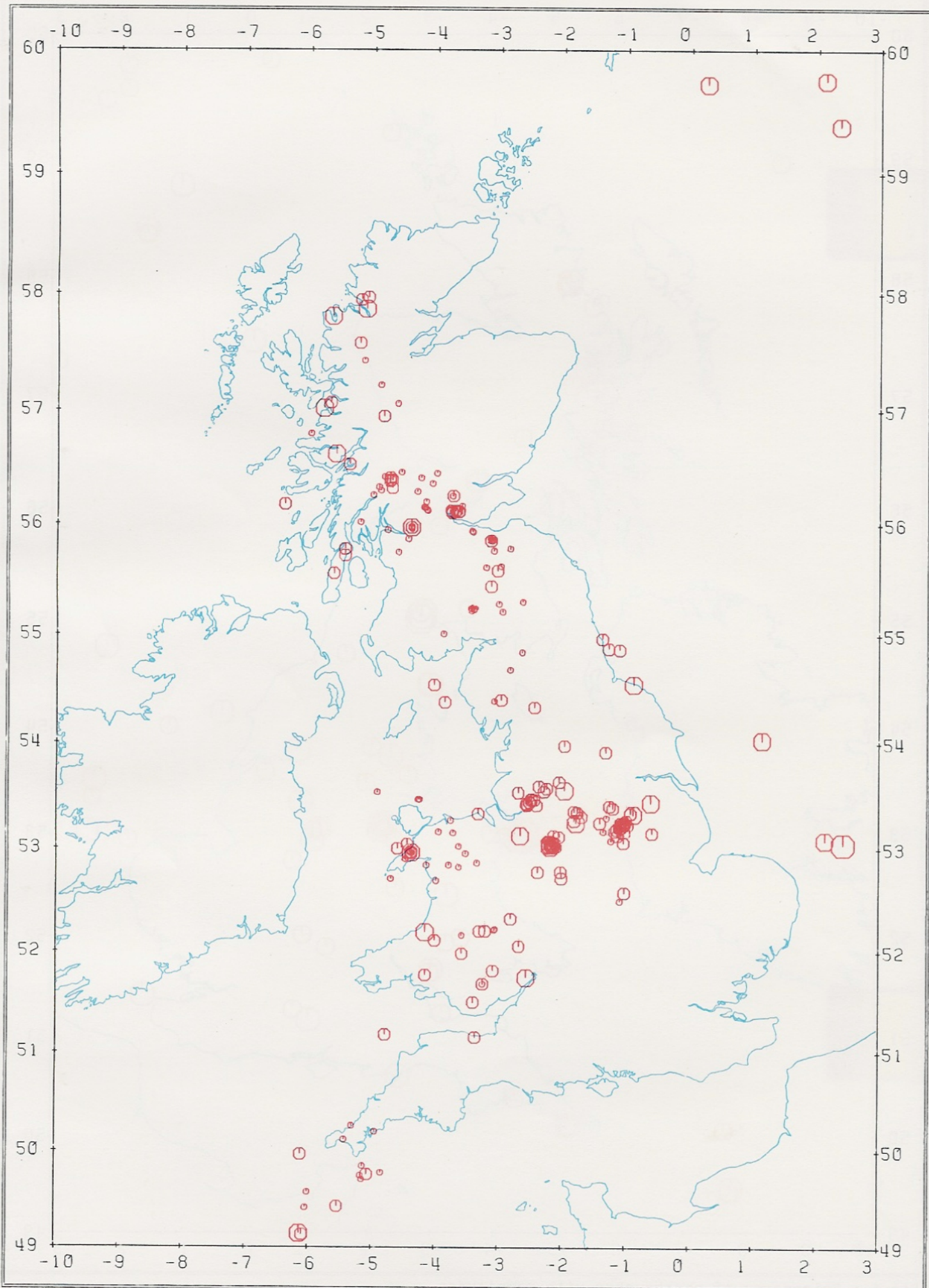


Fig.3 : Epicentres of all earthquakes, 1989

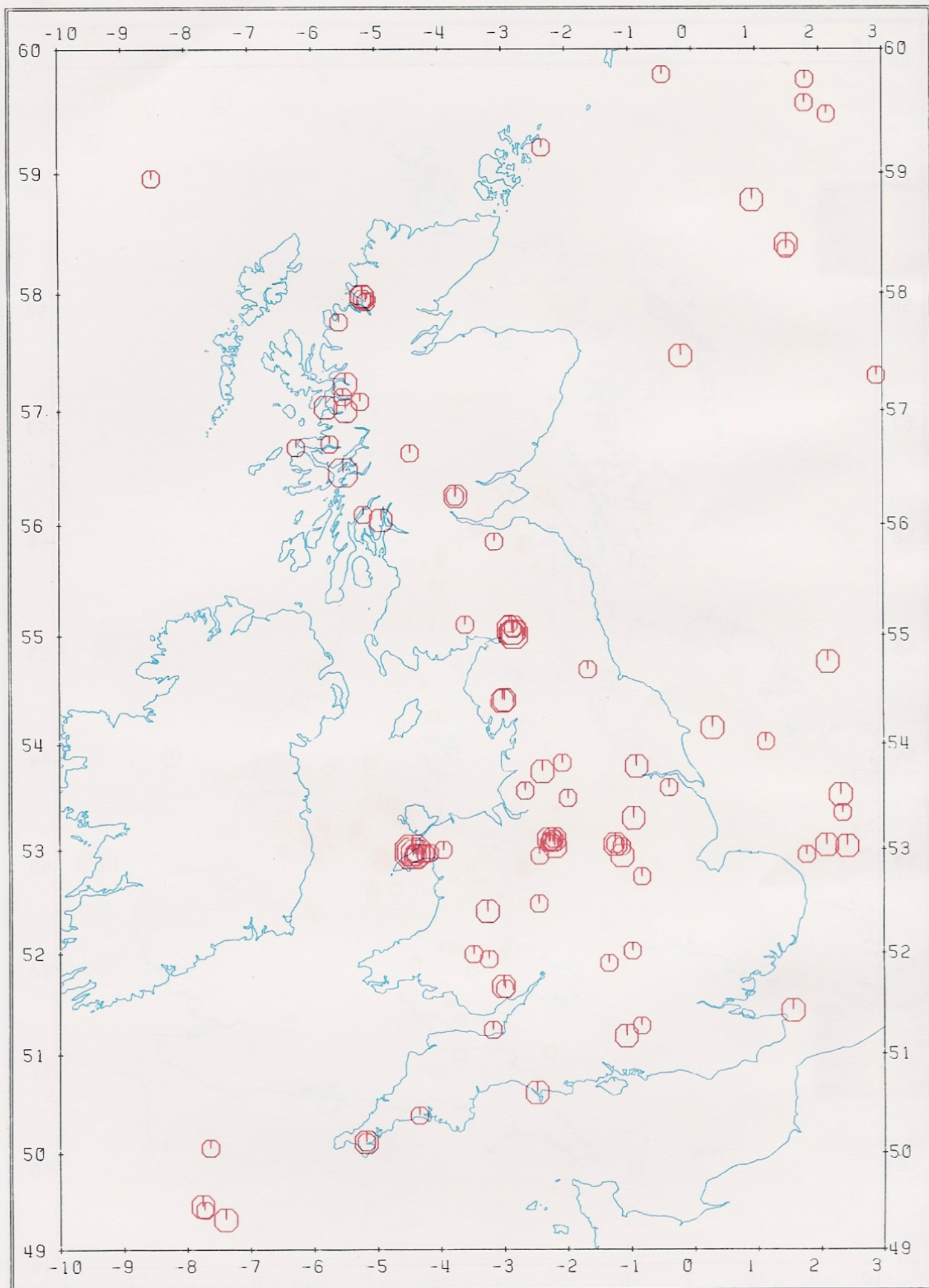


Fig.4 : Epicentres of earthquakes with magnitudes 2.5ML or greater, 1979-89

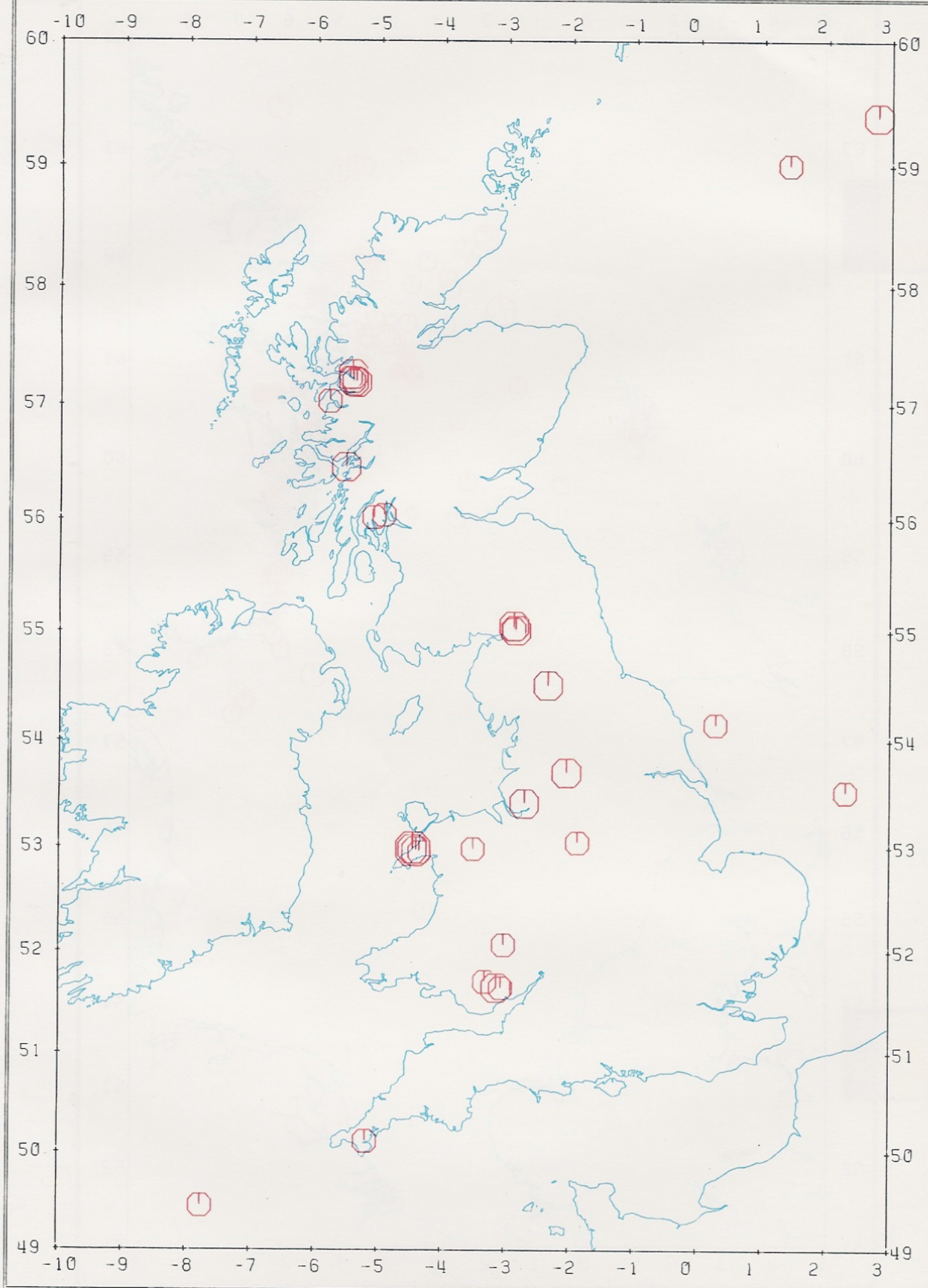


Fig.5 : Epicentres of earthquakes with magnitudes 3.5ML or greater, 1969-89

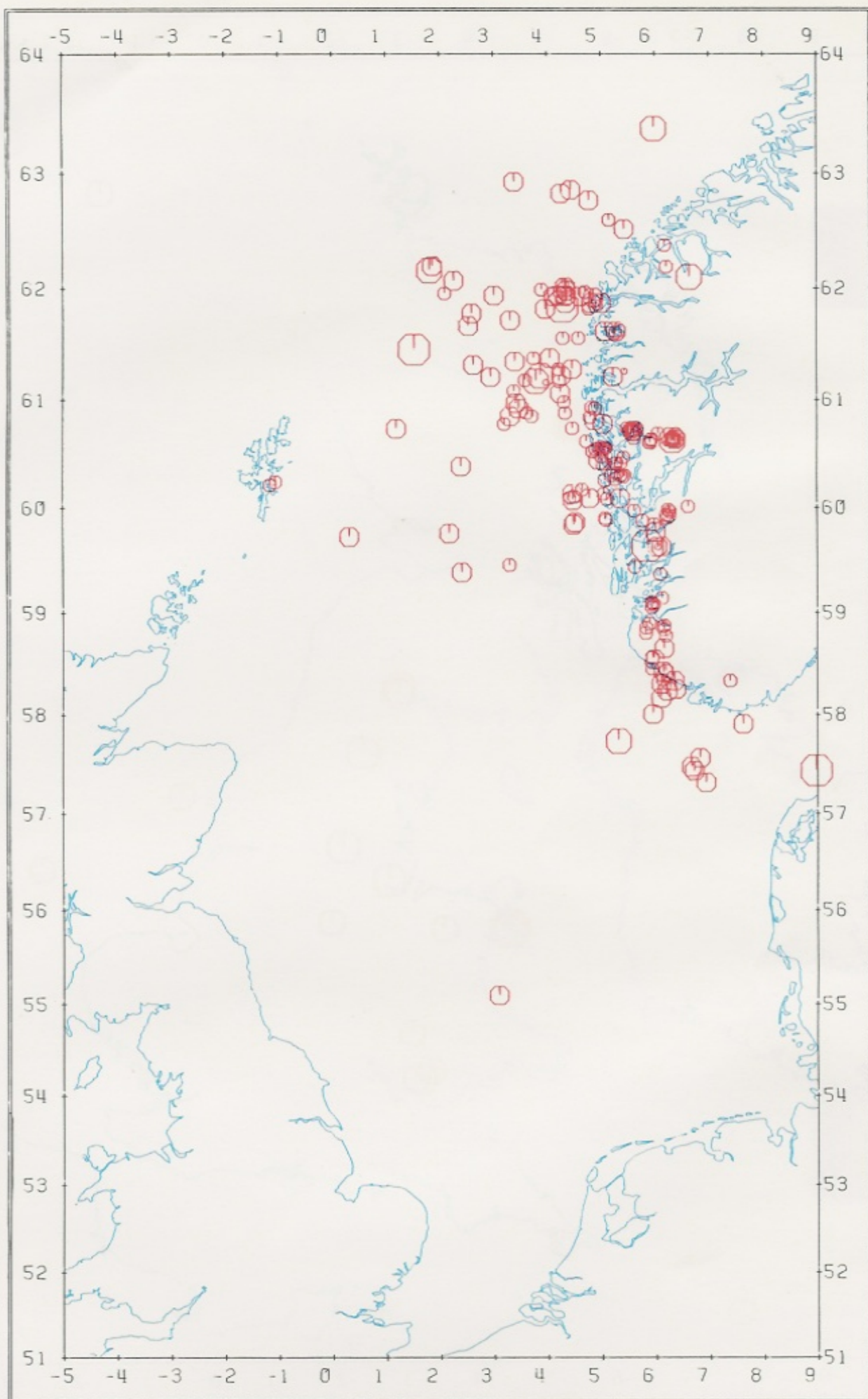
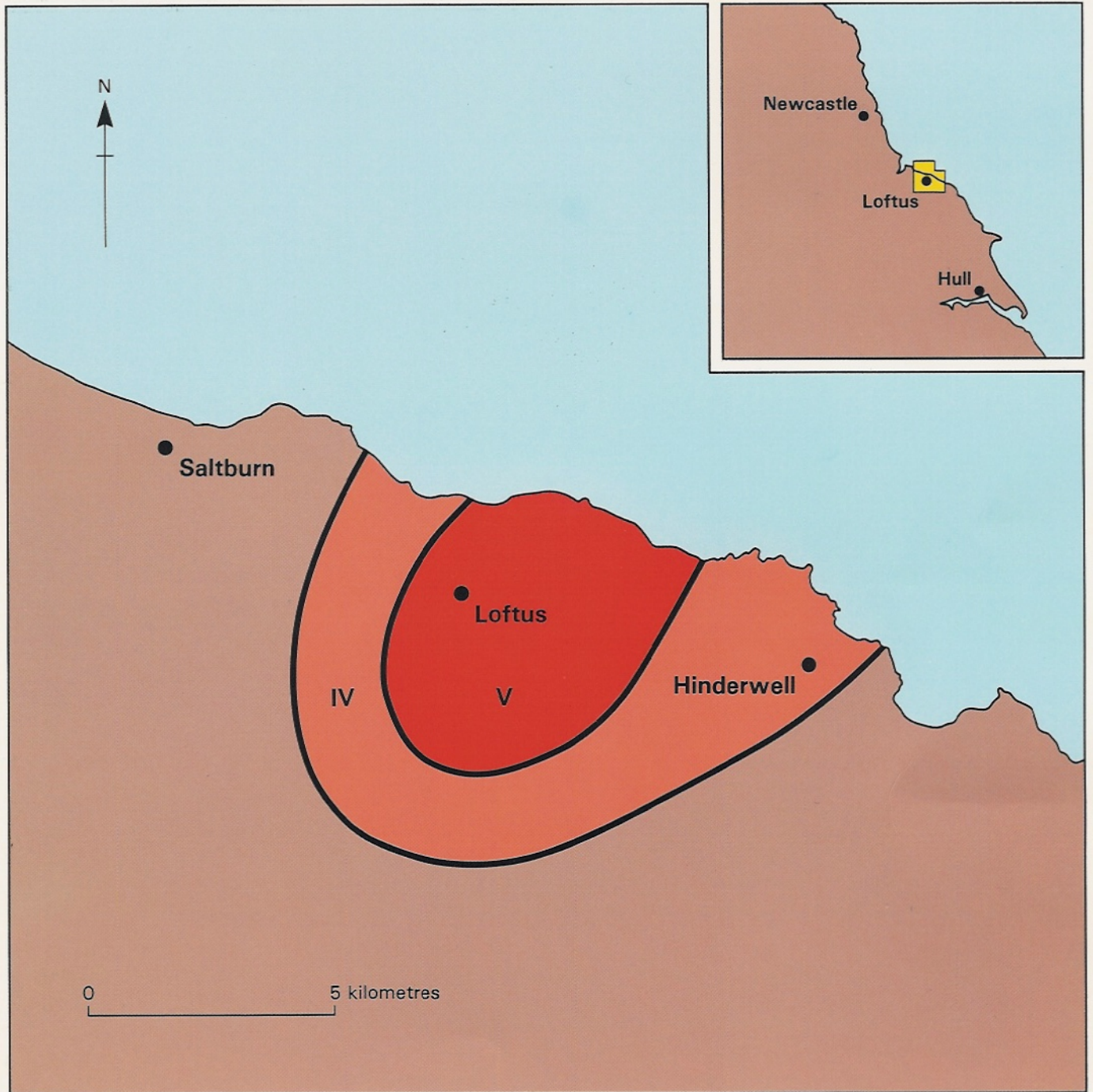


Fig.6 : Epicentres in the North Sea, 1989



Loftus Earthquake 5th September 1989 16.13 GMT (2.4 ML) – MSK INTENSITIES