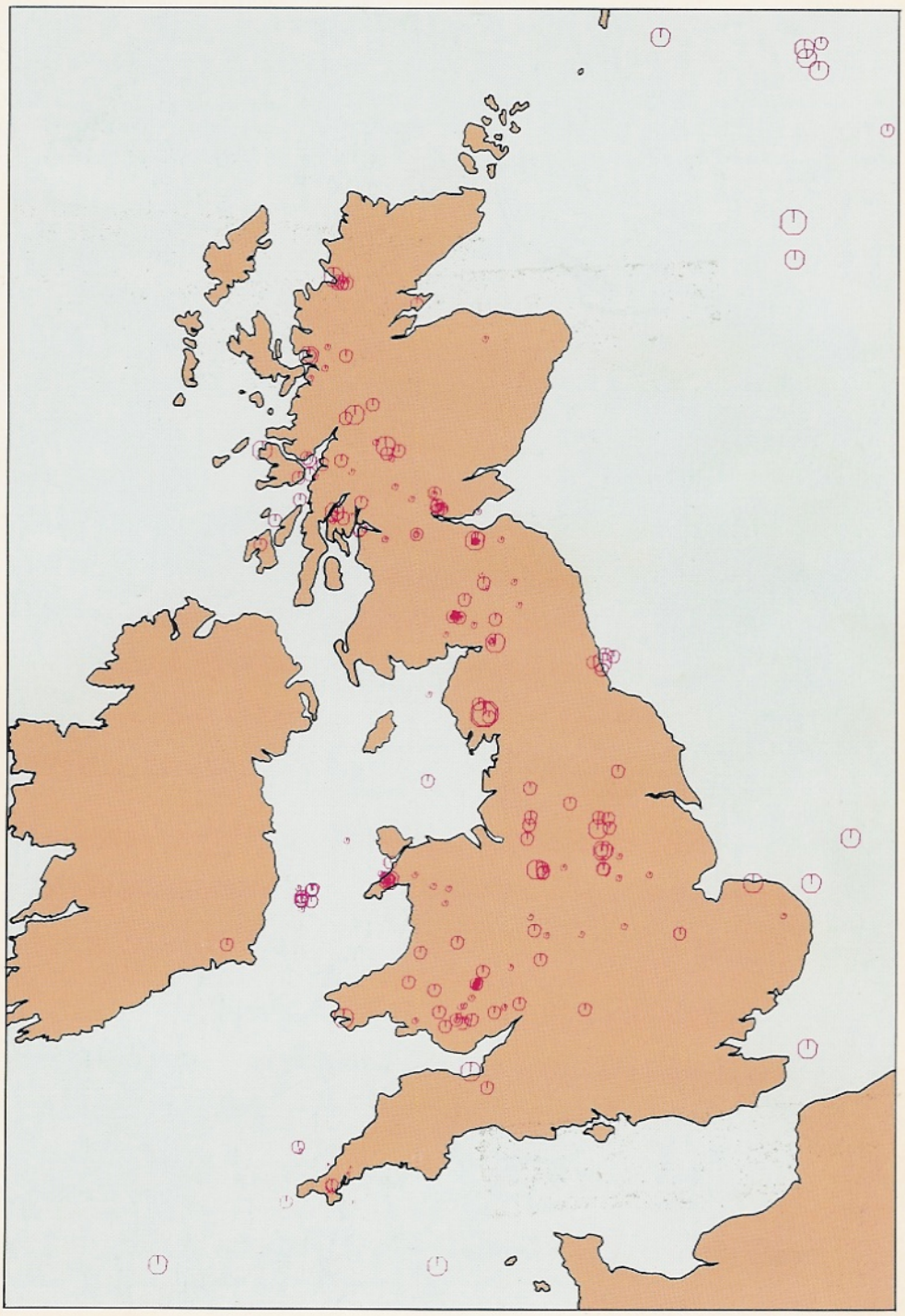
British Geological Survey

BULLETIN OF BRITISH EARTHQUAKES 1988



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Technical Report WL/90/3

Global Seismology Series

Bulletin of British earthquakes 1988

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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 1988. 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 Bulietin 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, 1985, 1986,1987, 1988 and 1989).

1.2 Summary of 1988 seismicity

The largest earthquake of 1988 occurred at Ambleside in Cumbria on 12 September with magnitude 3.2 ML. It was the first of a double event, the second occurring a few seconds later had a magnitude of 3.0 ML. The events were felt at intensity 4. Minutes later a magnitude 1.8 ML aftershock was felt at intensity 2.

Most other felt events were mining-related, one exception being a magnitude 2.9 ML earthquake which occurred to the east of Shetland and was felt on the islands.

Operational difficulties and a general run-down of mining in the Midlothian coalfield caused a marked drop in detected events in the area from 151 in 1987, to 18 in 1988. Two were felt.

The Lleyn series continued at a steady rate with 23 aftershocks detected. The largest, 2.1 ML, was felt at intensity 3.

Activity, at Longtown in Cumbria is still detected nine years after the 4.8 ML event of 1979. A 2.4 ML event occurred on 23 April, but was not felt.

Small swarms of activity occurred at Johnstonebridge in the Borders (15 events), Ullapool (5 events) and Hay-on-Wye (16 events).

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 1988 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 1988 by BGS, DIAS, and Leeds University.

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

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

2.2 Figures

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

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

FIGURE 3: the epicentral location map of all the events in 1988 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 1988.

FIGURE 5: the locations of earthquakes in the UK of magnitude 3.5 ML and above from 1969 to 1988.

FIGURE 6: the locations of earthquakes in the North Sea area in 1988.

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 with the consequence that areas such as the Scottish Highlands have a high threshold magnitude when local networks are not continuously analysed.

4. Hypocentre Parameters and their Errors

4.1 Epicentre Location

By accurately timing the signal onsets at a minimum of three stations a location can be found for an earthquake which satisfies the observed pattern of arrivals. Instrumental locations in the catalogue were obtained using the computer program 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 1979-1988 have been plotted in Figure 4. The data set is considered complete for these magnitudes in all localities. Seismicity for 1969-1988 is shown in Figure 5 with a threshold magnitude of 3.5. This is the period covered by BGS instrumentation which consisted only of the network around Edinburgh (LOWNET) and Eskdalemuir (ESK) in the early years.

4.4 Magnitude

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

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

where A is the deflection (centre to peak in mm) registered by the earthquake on a Wood-Anderson seismograph and Ao is that for a "standard" magnitude zero earthquake at the same distance. The Ao term is thus a distance correction factor tabulated by Richter to 200, and later 600 km. Although Richter intended his method to be an approximate quantification of earthquake size and his attenuation term, Ao, strictly only applies to California, the formula is still used world-wide today. The ML magnitudes in this 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 (Io) 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 with the earth.

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

5.3 Events excluded

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

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

5.4 Completeness

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

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

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CATALOGUE OF EVENTS : 1988

Listed Chronologically

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
020188	083028.3	57.92	-5.08	217.4	896.4	7.5	1.4	ULLAPOOL,HIGHLAND		12	49	219	0.77	5.2	12.7	D	D*D	
040188	005117.0	53.01	-3.99	266.4	347.3	13.2	-0.5	B FFESTINIOG,GWYNEDD		9	3	134	0.08	0.5	0.8	B	A*B	
060188	165902.9	56.11	-3.68	295.3	691.7	0.5	1.2	CLACKMANNAN,CENTRAL		8	19	204	0.28	2.6	2.7	D	C*D	COALFIELD TYPE
070188	040606.2	51.70	-3.98	263.2	201.9	19.7	0.7	PONTARDAWE,W GLAMORGAN		4	65	314	0.03	0.0	0.0	C	A*D	
070188	055016.5	56.51	-5.09	210.1	739.3	2.7	1.0	LOCH ETIVE,STRATHCLYDE		13	58	284	0.27	4.2	8.0	D	C*D	
070188	070208.5	52.88	-5.48	166.1	336.9	6.8	1.4	SOUTHERN IRISH SEA		23	54	115	0.29	1.0	2.4	C	B*D	
070188	071143.5	52.87	-5.50	164.3	336.2	0.5	1.1	SOUTHERN IRISH SEA		17	52	146	0.25	1.0	3.3	C	B*D	
070188	121041.2	50.17	-5.18	173.1	35.0	3.3	1.7	STITHIANS,CORNWALL		8	1	98	0.01	0.1	0.0	B	A*B	HYDROFRAC EVENT
080188	121417.1	57.49	-3.00	340.1	844.9	2.6	0.5	KEITH,GRAMPIAN		4	18	230	0.08	0.0	0.0	C	A*D	
090188	013132.4	52.50	-0.13	526.7	291.2	9.4	1.7	PETERBOROUGH,CAMBS		12	75	192	0.63	7.3	11.2	D	D*D	
110188	001958.1	50.17	-5.18	173.2	35.0	3.0	1.1	STITHIANS,CORNWALL		7	1	101	0.01	0.1	0.1	B	A*B	HYDROFRAC EVENT
120188	090258.0	53.12	-4.35	242.4	360.7	13.4	1.0	CAERNARVON,GWYNEDD		25	13	105	0.14	0.3	0.7	B	A*B	
130188	152153.0	59.72	1.64			1.0	2.4	NORTH SEA		14	164	176	0.57	4.4	2.9	D	D*D	
140188	120137.2	57.35	-5.03	217.8	832.6	1.9	1.7	L MULLARDOCH,HIGHLAND		16	41	236	0.35	2.8	2.1	D	C*D	
160188	093321.4	57.42	-5.30	201.9	841.2	14.1	-0.7	LOCHCARRON,HIGHLAND		6	9	197	0.57	9.7	12.6	D	D*D	
170188	023322.9	55.85	-3.13	329.4	662.6	4.6	0.2	ROSEWELL,LOTHIAN		6	9	172	0.03	0.4	1.3	B	A*C	COALFIELD TYPE
170188	051004.8	51.46	1.74	660.0	180.5	5.3	2.0	MARGATE,KENT		17	69	234	0.20	4.6	5.0	D	C*D	OFFSHORE LOCATION
170188	231511.6	55.87	-4.45	246.9	667.1	2.1	0.4	RENFREW,STRATHCLYDE		4	7	294	0.01	0.0	0.0	C	A*D	
190188	140531.2	51.09	-2.93	334.9	133.0	9.6	1.5	SE BRIDGWATER,SOMERSET		17	14	127	0.08	0.4	1.3	B	A*B	
200188	141823.1	55.51	-3.01	336.0	624.9	6.1	1.0	ETTRICKBRIDGE,BORDERS		11	25	162	0.19	1.8	1.4	C	B*C	
200188	212314.6	57.92	-5.15	213.5	897.1	5.9	1.4	ULLAPOOL,HIGHLAND		15	48	223	0.72	5.9	13.0	D	D*D	
200188	221234.6	56.53	-5.60	178.9	743.4	0.8	1.7	L LINNHE,STRATHCLYDE		6	86	213	0.14	2.9	1.7	D	C*D	
210188	152807.8	58.41	1.49			0.6	3.0	NORTH SEA		14	234	177	0.11	0.6	0.6	C	A*D	
230188	050449.8	52.99	-4.42	237.4	346.5	24.1	0.3	LLEYN PEN,GWYNEDD		8	1	187	0.07	0.9	0.8	C	A*D	AFTERSHOCK
250188	012722.1	51.65	-3.54	293.2	195.4	1.5	1.0	W RHONDDA,MID GLAM		19	51	239	0.16	1.2	1.1	C	B*D	
260188	131015.9	57.25	-5.34	198.7	822.3	17.6	0.3	KINTAIL,HIGHLAND		5	7	227	0.38	11.2	9.1	D	D*D	
260188	165630.3	52.66	1.38	628.6	312.3	7.8	0.3	NE NORWICH,NORFOLK		7	20	157	0.10	0.8	25.5	C	C*C	
270188	083810.5	55.85	-3.13	329.2	662.6	1.9	0.6	ROSEWELL,LOTHIAN		8	9	120	0.09	0.5	0.8	B	A*B	COALFIELD TYPE
300188	051831.1	56.42	-4.94	218.7	728.7	1.0	0.7	DALMALLY,STRATHCLYDE		7	45	318	0.19	17.6	14.2	D	D*D	
310188	002932.9	56.20	-4.07	271.5	703.2	1.9	-0.1	DOUNE,CENTRAL		4	17	182	0.03	0.0	0.0	C	A*D	
020288	132904.0	55.95	-4.74	228.8	676.0	6.3	0.3	GREENOCK,STRATHCLYDE		8	11	263	0.13	1.5	1.5	C	B*D	
060288	050835.6	53.02	-4.48	233.4	349.8	12.9	0.6	NW LLEYN,GWYNEDD		18	6	142	0.11	0.4	0.3	B	A*C	
060288	191904.2	50.12	-5.27	166.4	30.0	6.6	0.1	WENDRON,CORNWALL		8	5	307	0.03	0.8	0.8	C	A*D	
060288	223812.4	50.13	-5.27	166.0	30.4	6.3	0.1	WENDRON,CORNWALL		9	6	307	0.02	0.5	0.5	C	A*D	
070288	120153.1	57.35	-5.58	184.8	834.5	3.1	2.4	PLOCKTON,HIGHLAND		7	5	150	0.11	0.9	2.8	C	B*C	
070288	130528.9	56.85	-5.03	215.3	777.0	3.2	1.6	FORT WILLIAM,HIGHLAND		7	47	175	0.02	0.4	0.8	B	A*C	
080288	100528.9	57.35	-5.57	185.1	834.7	3.9	1.9	PLOCKTON,HIGHLAND		6	5	152	0.12	0.2	0.7	B	A*C	
120288	015821.5	57.92	-5.02	220.9	896.7	0.2	1.1	ULLAPOOL,HIGHLAND		5	50	283	0.05	0.2	0.2	C	A*D	
200288	162109.9	59.76	1.88			27.6	1.7	NORTH SEA		5	176	171	0.54	4.0	8.3	D	D*D	
210288	022324.0	55.24	-3.43	309.2	595.0	1.4	-0.2	JOHNSTONEBRIDGE,D & G		4	17	310	0.04	0.0	0.0	C	A*D	
210288	024403.3	55.24	-3.43	309.3	595.0	1.3	-0.2	JOHNSTONEBRIDGE,D & G		4	16	310	0.05	0.0	0.0	C	A*D	
220288	064157.4	52.96	-4.41	238.1	343.6	21.4	0.7	LLEYN PEN,GWYNEDD		11	2	116	0.11	0.9	0.9	B	A*B	AFTERSHOCK
220288	180956.3	55.85	-3.12	330.1	662.3	0.0	-0.2	ROSEWELL,LOTHIAN		4	9	180	0.04	0.0	0.0	C	A*D	COALFIELD TYPE
230288	075507.6	55.21	-2.84	346.3	590.4	2.6	1.3	NEWCASTLETON,BORDERS		5	18	212	0.12	0.2	0.9	C	A*D	
240288	164632.6	56.10	-3.63	298.7	691.5	0.2	0.9	BLAIRHALL,FIFE		10	18	122	0.09	0.3	0.5	B	A*C	COALFIELD TYPE
240288	180408.1	52.96	-4.39	239.6	343.4	23.5	0.7	LLEYN PEN,GWYNEDD		12	3	86	0.09	0.4	0.7	A	A*A	AFTERSHOCK
250288	063027.5	56.10	-3.09	332.0	690.8	0.2	0.3	KIRKCALDY,FIFE		12	21	119	0.07	0.3	0.4	B	A*C	COALFIELD TYPE
250288	094021.4	59.56	1.85			8.5	2.1	NORTH SEA		12	180	225	0.25	4.8	4.6	D	C*D	
260288	065419.8	51.91	-3.16	320.2	224.4	19.4	0.6	BRECON,POWYS		7	15	182	0.11	1.7	2.0	C	B*D	
260288	174722.5	56.66	-4.59	241.2	755.6	1.0	0.7	RANNOCH MOOR,TAYSIDE		7	55	294	0.09	5.2	4.0	D	D*D	

CATALOGUE OF EVENTS : 1988

Listed Chronologically

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
270288	054147.4	52.89	-3.50	298.8	333.6	11.1	0.2	LAKE BALA,GWYNEDD		10	12	142	0.05	0.3	0.4	B	A*C	
270288	112505.9	55.85	-3.13	329.4	662.2	0.8	0.1	ROSEWELL,LOTHIAN		5	9	171	0.12	0.4	0.5	C	A*D	COALFIELD TYPE
270288	185810.1	55.85	-3.15	328.2	661.9	1.6	0.0	ROSEWELL,LOTHIAN		6	9	157	0.09	0.7	0.9	B	A*C	COALFIELD TYPE
060388	065709.4	55.87	-4.44	247.0	666.3	5.0	0.6	RENFREW,STRATHCLYDE		6	7	244	0.01	0.4	0.5	C	A*D	
060388	141024.2	55.22	-3.36	313.7	592.4	3.6	1.7	JOHNSTONEBRIDGE,D & G		18	15	122	0.08	0.4	0.8	B	A*C	
080388	102254.3	52.32	-3.91	269.7	271.1	9.2	1.3	ABERYSTWYTH,DYFED		16	41	199	0.27	2.5	3.2	C	B*D	
080388	193802.2	51.81	-1.51	434.0	212.5	6.7	1.5	WITNEY,OXFORDSHIRE		7	104	274	0.13	4.4	6.1	D	C*D	
110388	195638.4	53.31	-4.98	201.6	383.4	2.8	-0.3	HOLYHEAD,GWYNEDD		6	28	332	0.08	1.7	25.2	D	C*D	
120388	115601.7	56.13	-3.65	297.5	694.3	0.5	0.7	SALINE,FIFE		8	16	119	0.08	0.4	0.9	B	A*C	COALFIELD TYPE
160388	064023.8	55.91	-3.99	275.8	670.8	4.1	1.0	CUMBERNAULD,S'CLYDE		14	11	144	0.12	0.4	0.9	B	A*C	
170388	012633.8	55.37	-3.29	318.1	609.7	1.1	1.1	MOFFAT,D & G		4	8	345	0.05	0.0	0.0	C	A*D	
190388	223103.9	55.24	-3.43	308.8	595.0	2.4	-0.2	JOHNSTONEBRIDGE,D & G		4	17	311	0.01	0.0	0.0	C	A*D	
200388	032839.8	55.23	-3.46	307.3	594.3	2.6	-0.1	JOHNSTONEBRIDGE,D & G		4	18	315	0.03	0.0	0.0	C	A*D	
200388	042415.5	55.23	-3.43	309.2	594.2	2.7	0.1	JOHNSTONEBRIDGE,D & G		4	17	310	0.08	0.0	0.0	C	A*D	
200388	073145.2	55.24	-3.44	308.5	594.9	2.6	-0.3	JOHNSTONEBRIDGE,D & G		4	17	312	0.09	0.0	0.0	C	A*D	
200388	110454.7	55.23	-3.46	307.1	593.8	5.7	1.8	JOHNSTONEBRIDGE,D & G		27	19	97	0.21	0.6	1.0	C	B*C	
230388	045349.3	53.45	-2.33	378.0	395.2	9.8	1.1	SALFORD,GT MANCHESTER	3+	7	109	335	0.21	8.5	3.9	D	D*D	FELT LEIGH,LANCS
230388	091806.3	55.23	-3.43	309.0	594.1	2.6	-0.1	JOHNSTONEBRIDGE,D & G		4	17	310	0.08	0.0	0.0	C	A*D	
230388	215315.5	55.24	-3.44	308.5	594.9	2.1	0.3	JOHNSTONEBRIDGE,D & G		4	17	312	0.01	0.0	0.0	C	A*D	
240388	195514.1	56.19	-5.70	170.2	705.5	8.5	1.6	SCARBA,STRATHCLYDE		13	71	239	0.19	2.0	3.7	C	B*D	
270388	210825.7	52.78	-5.65	153.7	326.1	9.2	1.5	IRISH SEA		20	39	121	0.24	0.8	1.2	C	B*C	
280388	113617.4	52.77	-5.64	154.2	325.6	7.4	1.7	IRISH SEA		26	39	122	0.21	0.7	1.7	C	B*C	
280388	114247.2	52.77	-5.50	163.7	325.1	3.6	1.1	IRISH SEA		9	48	138	0.29	1.5	5.4	C	C*C	
280388	155036.5	56.04	-5.06	209.6	687.2	0.4	1.1	LOCH ECK,STRATHCLYDE		13	29	282	0.17	4.2	3.1	D	C*D	
280388	174041.7	52.96	-4.37	240.9	342.8	20.9	1.0	LLEYN PEN,GWYNEDD		25	5	88	0.12	0.3	0.7	A	A*A	AFTERSHOCK
290388	052457.8	55.22	-3.37	312.7	592.1	2.8	0.1	JOHNSTONEBRIDGE,D & G		4	15	300	0.08	0.0	0.0	C	A*D	
300388	150331.3	56.12	-3.63	298.8	692.8	0.2	1.3	SALINE,FIFE		10	16	120	0.20	0.8	1.2	C	B*C	COALFIELD TYPE
310388	100946.0	52.97	-4.41	238.3	343.9	22.4	0.9	LLEYN PEN,GWYNEDD		21	2	96	0.09	0.3	0.5	B	A*B	AFTERSHOCK
310388	192719.5	50.26	-4.96	188.9	44.5	15.0	-0.8	EAST TRURO,CORNWALL		3	21	343	0.00	0.0	0.0	C	A*D	
310388	192725.3	50.26	-4.96	189.1	44.6	15.2	-0.1	EAST TRURO,CORNWALL		6	16	335	0.00	0.2	0.1	C	A*D	
310388	230911.4	56.37	-5.72	170.3	725.4	6.2	1.2	MULL,STRATHCLYDE		13	84	311	0.16	3.5	6.8	D	C*D	
020488	014712.0	52.96	-4.39	239.4	343.1	24.3	0.7	LLEYN PEN,GWYNEDD		18	3	87	0.08	0.3	0.5	A	A*A	AFTERSHOCK
030488	160744.7	52.41	-3.37	306.6	280.1	16.6	1.2	S NEWTOWN,POWYS		28	22	90	0.19	0.5	1.4	B	B*B	
030488	173443.6	51.83	-2.68	353.3	215.0	6.1	0.5	MONMOUTH,GWENT		6	23	181	0.19	0.2	2.1	C	B*D	
050488	121050.6	56.10	-3.64	298.0	691.4	0.1	0.9	SALINE,FIFE		10	18	124	0.14	0.6	0.9	B	A*C	COALFIELD TYPE
080488	034855.7	52.52	-2.25	383.1	291.5	16.4	1.0	SEDGLEY,STAFFORDSHIRE		13	1	128	0.19	1.6	1.1	B	B*B	
080488	103501.8	56.96	-4.64	239.7	788.9	5.0	1.8	INVERGARRY,HIGHLAND		23	79	191	0.34	1.4	3.1	D	C*D	
080488	185555.9	55.08	-3.56	300.6	577.2	2.2	0.9	DUMFRIES,D & G		4	30	333	0.08	0.0	0.0	C	A*D	
100488	014904.5	55.85	-3.13	329.2	662.9	0.4	0.1	ROSEWELL,LOTHIAN		5	8	173	0.03	0.2	0.1	C	A*D	COALFIELD TYPE
100488	204204.8	52.91	-3.72	284.4	336.3	11.3	0.6	LAKE BALA,GWYNEDD		12	10	171	0.08	0.4	0.6	B	A*C	
150488	085601.2	55.01	-2.88	343.9	569.3	3.0	0.5	LONGTOWN,CUMBRIA		5	24	282	0.02	0.6	1.3	C	A*D	
150488	094111.5	55.85	-3.14	328.5	661.9	0.1	0.1	ROSEWELL,LOTHIAN		8	9	127	0.06	0.3	0.4	B	A*B	COALFIELD TYPE
180488	060700.5	53.33	-2.36	375.8	382.0	21.6	1.2	KNUTSFORD,CHESHIRE		22	85	122	0.20	0.5	4.4	C	B*D	
180488	151350.4	56.30	-4.31	257.4	714.9	2.4	0.3	STRATHYRE,CENTRAL		6	13	234	0.14	3.3	2.1	D	C*D	
200488	080850.7	57.76	-4.00	281.2	876.6	6.8	1.1	TAIN,HIGHLAND		11	21	146	0.18	2.5	4.4	C	B*C	
200488	160752.5	55.91	-3.99	275.8	669.9	1.9	0.8	CUMBERNAULD,S'CLYDE		12	11	149	0.11	0.4	0.6	B	A*C	
230488	081229.9	55.91	-4.00	274.9	670.7	5.4	0.6	CUMBERNAULD,S'CLYDE		11	10	209	0.10	0.7	0.7	C	A*D	
230488	094928.5	55.01	-2.84	346.3	569.2	1.4	2.4	LONGTOWN,CUMBRIA		11	26	103	0.23	0.9	1.5	C	B*C	
240488	090112.7	52.97	-4.40	238.5	344.3	24.1	0.2	LLEYN PEN,GWYNEDD		8	2	138	0.07	0.8	0.7	B	A*C	AFTERSHOCK
250488	000312.9	55.91	-3.99	275.4	670.6	2.4	0.6	CUMBERNAULD,S'CLYDE		12	11	147	0.19	0.6	1.0	C	B*C	

CATALOGUE OF EVENTS : 1988

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Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
250488	045623.9	55.58	-3.04	334.3	632.2	7.2	0.7	INNERLEITHEN,BORDERS		8	22	164	0.12	0.3	0.7	B	A*C	
250488	071406.6	55.91	-3.99	275.5	670.5	6.3	1.2	CUMBERNAULD,S'CLYDE		13	11	147	0.11	0.5	0.6	B	A*C	
020588	050611.2	55.85	-3.11	330.2	662.2	0.1	0.1	ROSEWELL,LOTHIAN		7	9	117	0.16	1.0	1.0	B	B*B	COALFIELD TYPE
040588	124109.5	57.97	-5.22	209.8	902.9	8.2	2.2	ULLAPOOL,HIGHLAND		4	62	255	0.04	0.0	0.0	C	A*D	
050588	030631.8	54.85	-1.27	446.6	551.3	7.3	2.0	SUNDERLAND,TYNE & WEAR	3+	10	60	290	0.04	0.6	1.0	C	A*D	FELT RYHOPE,COALFIELD TYPE
070588	093245.6	55.03	-2.88	343.8	570.9	1.0	0.6	LONGTOWN,CUMBRIA		4	23	350	0.14	0.0	0.0	C	A*D	
070588	105431.9	55.03	-2.90	342.2	571.0	1.0	0.2	LONGTOWN,CUMBRIA		4	22	351	0.13	0.0	0.0	C	A*D	
070588	142443.7	56.15	-3.69	294.8	696.3	0.1	1.0	DOLLAR,CENTRAL		9	16	120	0.05	0.3	0.5	B	A*C	COALFIELD TYPE
070588	143646.6	55.85	-3.11	330.5	663.0	4.0	0.7	ROSEWELL,LOTHIAN		8	9	112	0.12	0.6	2.7	B	B*B	COALFIELD TYPE
110588	192508.5	50.49	-5.66	140.1	72.3	3.7	0.9	NW ST IVES,CORNWALL		8	38	322	0.04	1.5	15.2	D	C*D	OFFSHORE
120588	001422.0	55.88	-3.10	331.2	665.4	1.8	1.1	BONNYRIGG,LOTHIAN	3+	11	3	321	0.05	0.8	1.5	C	A*D	FELT BONNYRIGG,COALFIELD TYPE
120588	054928.6	56.48	-5.37	192.6	737.3	1.5	1.4	LOCH ETIVE,STRATHCLYDE		4	81	352	0.10	0.0	0.0	C	A*D	
120588	123612.1	56.06	-4.94	216.9	689.1	2.7	0.7	LOCH ECK,STRATHCLYDE		11	27	266	0.14	1.0	1.6	C	B*D	
130588	111845.4	51.78	-3.63	287.8	209.9	14.7	1.5	ABERCRAF,POWYS		8	37	205	0.10	1.4	3.7	C	B*D	
140588	012604.6	56.59	-4.26	261.2	746.1	3.6	1.7	RANNOCH MOOR,TAYSIDE		16	36	253	0.22	2.3	1.8	C	B*D	
150588	100709.3	52.26	-2.16	388.9	262.6	7.8	1.2	WORCESTER,HER & WORC		21	36	165	0.31	1.3	4.3	C	C*C	
190588	134403.7	55.33	-2.49	369.1	604.4	7.1	0.4	BYRNESS,NORTHUMBERLAND		6	23	207	0.10	1.4	1.6	C	B*D	
200588	013822.1	53.52	-1.32	445.1	403.4	3.5	1.8	DEARNE,S YORKSHIRE		7	33	165	0.34	3.3	6.0	C	C*C	COALFIELD TYPE
200588	192405.0	50.00	-4.88	193.7	15.6	9.8	0.0	DODMAN POINT,CORNWALL		5	21	331	0.23	12.6	24.9	D	D*D	25KM SOUTH OF DODMAN PT
230588	061334.5	56.63	-4.45	249.7	751.3	8.8	2.6	RANNOCH MOOR,TAYSIDE		22	49	99	0.28	0.8	16.9	C	C*C	
240588	093409.4	56.57	-4.43	250.5	744.2	3.1	1.4	RANNOCH MOOR,TAYSIDE		6	42	279	0.08	4.6	8.4	D	C*D	
270588	041229.9	56.53	-4.36	254.7	740.2	1.5	0.7	RANNOCH MOOR,TAYSIDE		7	38	271	0.23	14.6	10.9	D	D*D	
280588	035141.3	52.15	-3.00	331.6	250.7	22.8	1.0	KINGTON,HER & WORC		21	17	101	0.09	0.6	0.8	B	A*B	
010688	070302.8	52.97	-4.40	239.0	344.6	24.1	0.5	LLEYN PEN,GWYNEDD		10	2	153	0.11	1.1	0.9	C	B*C	AFTERSHOCK
020688	214528.0	51.71	-3.37	305.5	202.1	7.3	0.4	ABERDARE,MID GLAMORGAN		6	40	173	0.07	0.3	1.4	B	A*C	
020688	214636.3	51.71	-3.38	304.7	202.0	1.6	1.3	ABERDARE,MID GLAMORGAN		11	40	123	0.07	0.3	0.5	B	A*C	
040688	031136.6	56.02	-6.06	146.8	688.5	2.9	1.7	JURA,STRATHCLYDE		20	85	262	0.20	2.3	3.4	C	B*D	
050688	235210.1	55.85	-3.12	329.8	662.9	0.9	0.5	ROSEWELL,LOTHIAN		6	9	179	0.04	0.7	0.7	B	A*C	COALFIELD TYPE
060688	235102.5	52.95	0.93	596.8	343.2	21.5	2.1	STIFFKEY,NORFOLK		15	16	188	0.08	0.5	0.6	C	A*D	
080688	053151.3	55.85	-3.13	329.0	662.5	0.2	-0.1	ROSEWELL,LOTHIAN		4	9	290	0.03	0.0	0.0	C	A*D	COALFIELD TYPE
080688	080703.2	56.59	-6.25	139.1	751.9	2.2	2.1	MULL,STRATHCLYDE		16	86	252	0.18	3.1	1.8	D	C*D	
090688	133600.0	52.05	-4.08	257.1	241.6	2.7	1.3	LAMPETER,DYFED		19	34	144	0.33	0.8	2.0	C	C*C	
090688	234041.0	50.12	-5.17	173.4	28.8	6.7	-0.3	S CONSTANTINE,CORNWALL		5	6	338	0.00	0.2	0.2	C	A*D	
130688	021424.6	49.41	-7.71	-13.9	-38.7	5.0	2.7	SW SCILLY ISLES		6	200	359	0.04	41.5	19.1	D	D*D	
140688	100039.2	55.85	-3.14	328.6	661.9	0.3	0.9	ROSEWELL,LOTHIAN		8	9	127	0.10	0.2	0.2	B	A*B	COALFIELD TYPE
170688	171441.5	53.77	-2.32	379.2	430.2	8.8	1.5	ACCRINGTON,LANCASHIRE		13	35	197	0.11	1.0	2.3	C	B*D	
190688	133218.9	50.22	-5.27	166.9	41.0	1.6	-0.2	CAMBORNE,CORNWALL		6	5	320	0.00	0.0	0.1	C	A*D	POSSIBLE MINING EVENT
200688	133242.8	55.22	-3.37	313.1	592.5	2.8	-0.1	JOHNSTONEBRIDGE,D & G		4	15	298	0.07	0.0	0.0	C	A*D	
220688	033558.1	53.92	-1.04	463.2	447.2	6.7	1.7	YORK,N YORKSHIRE		5	20	269	0.11	4.7	3.9	D	C*D	
230688	013705.4	55.86	-3.15	328.3	663.2	0.5	0.0	ROSEWELL,LOTHIAN		6	8	164	0.10	1.2	1.4	C	B*C	COALFIELD TYPE
250688	212506.4	55.95	-4.81	224.7	676.4	2.4	1.3	GREENOCK,STRATHCLYDE		8	12	247	0.28	1.7	1.5	C	B*D	
060788	050916.9	51.72	-5.02	191.1	206.6	7.8	2.3	MILFORD HAVEN,DYFED		20	60	217	0.24	1.5	2.5	C	B*D	
080788	073126.8	49.41	-3.64	281.3	-52.6	8.0	2.0	ENGLISH CHANNEL		11	106	200	0.35	5.4	14.4	D	D*D	
080788	165132.9	55.47	-2.98	337.9	620.5	4.9	0.7	ETTRICKBRIDGE,BORDERS		10	22	127	0.11	1.0	2.1	C	B*C	
120788	041736.2	52.97	-4.40	238.9	344.2	23.5	1.7	LLEYN PEN,GWYNEDD		22	2	83	0.09	0.3	0.7	A	A*A	AFTERSHOCK
160788	020254.1	52.97	-4.41	238.4	343.7	23.1	0.5	LLEYN PEN,GWYNEDD		15	2	116	0.11	0.5	0.6	B	A*B	AFTERSHOCK
170788	013207.7	52.49	-1.57	429.2	288.5	10.2	0.4	COVENTRY,W MIDLANDS		6	33	153	0.11	2.7	6.8	C	C*C	
190788	052028.9	52.98	-4.41	238.2	345.6	23.9	0.1	LLEYN PEN,GWYNEDD		11	1	130	0.20	1.3	1.7	B	B*B	AFTERSHOCK

CATALOGUE OF EVENTS : 1988

Listed Chronologically

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
200788	190643.1	56.17	-4.80	225.9	701.2	3.2	1.0	LOCH LONG,STRATHCLYDE		15	29	255	0.14	1.1	1.3	C	B*D	
230788	002931.4	53.08	-1.83	411.4	353.5	11.9	0.4	WETTON,STAFFS		5	7	219	0.00	0.1	0.2	C	A*D	
250788	095851.2	52.97	-4.40	238.6	344.6	21.9	1.2	LLEYN PEN,GWYNEDD		15	2	113	0.14	0.6	0.9	B	A*B	AFTERSHOCK
250788	095906.0	52.97	-4.40	238.6	344.5	20.5	0.9	LLEYN PEN,GWYNEDD		14	2	113	0.26	1.1	1.9	B	B*B	AFTERSHOCK
250788	121822.4	51.71	-3.16	320.2	201.4	14.4	1.0	ABERTILLERY,GWENT		5	25	242	0.03	1.0	2.6	C	B*D	
270788	024044.1	52.70	-5.64	154.4	317.3	10.0	0.8	IRISH SEA		6	39	192	0.24	19.3	6.0	D	D*D	
280788	125307.5	56.02	-5.21	199.7	685.4	2.6	0.9	GLENDARUEL,STRATHCLYDE		5	35	330	0.03	1.4	1.1	C	B*D	
290788	174108.2	53.64	-1.74	416.9	415.9	15.3	1.8	HUDDERSFIELD,W YORKS		6	26	164	0.02	0.5	1.7	B	A*C	
300788	075248.0	56.88	-4.90	223.5	779.7	3.5	2.4	FORT WILLIAM,HIGHLAND		21	69	149	0.28	1.3	3.8	C	B*D	
300788	192126.7	52.02	-3.10	324.4	236.7	6.7	0.5	HAY-ON-WYE,HER & WORC		7	8	144	0.14	1.5	0.9	C	B*C	
310788	044103.8	52.04	-3.09	325.1	238.5	7.5	-0.1	HAY-ON-WYE,HER & WORC		5	8	164	0.25	2.2	1.0	C	B*D	
010888	035635.3	52.05	-3.08	325.7	239.5	6.9	0.1	HAY-ON-WYE,HER & WORC		5	8	167	0.03	11.1	7.0	D	D*D	
010888	142834.2	56.40	-5.56	180.1	728.8	10.9	1.4	OBAN,STRATHCLYDE		12	79	306	0.20	2.1	2.7	C	B*D	
010888	182625.4	57.94	-5.13	214.6	898.4	2.4	1.0	ULLAPOOL,HIGHLAND		4	56	319	0.07	0.0	0.0	C	A*D	
010888	202234.4	52.04	-3.10	324.9	238.7	6.8	-0.2	HAY-ON-WYE,HER & WORC		5	8	164	0.18	7.9	3.8	D	D*D	
010888	211006.5	52.03	-3.09	325.0	237.3	7.9	0.2	HAY-ON-WYE,HER & WORC		5	7	177	0.07	2.8	1.6	D	C*D	
030888	141428.6	52.05	-3.08	326.0	240.0	5.1	0.1	HAY-ON-WYE,HER & WORC		5	8	170	0.09	2.3	3.8	C	B*D	
030888	144824.1	52.95	1.78	653.9	345.9	5.0	2.9	SOUTHERN NORTH SEA		14	389	337	0.65	222.7	240.7	D	D*D	
030888	163838.0	55.82	-6.27	132.6	666.3	0.4	1.9	ISLAY,STRATHCLYDE		15	96	330	0.33	5.3	3.7	D	D*D	
030888	173258.5	52.89	-5.69	152.1	339.1	10.0	0.9	IRISH SEA		8	42	205	0.28	5.8	5.1	D	D*D	
030888	212601.3	59.65	1.67			4.0	2.3	NORTHERN NORTH SEA		17	168	180	0.45	3.6	4.4	D	C*D	
040888	104207.5	52.06	-3.07	326.9	241.0	5.3	0.5	HAY-ON-WYE,HER & WORC		4	9	177	0.06	0.0	0.0	C	A*D	
040888	191512.0	52.07	-3.07	326.8	241.4	2.5	0.0	HAY-ON-WYE,HER & WORC		5	9	179	0.06	0.4	0.6	C	A*D	
070888	014558.0	52.04	-3.08	326.1	239.1	6.7	0.6	HAY-ON-WYE,HER & WORC		6	8	143	0.07	1.5	0.9	C	B*C	
070888	120944.3	52.81	-5.63	155.5	329.5	4.5	1.6	IRISH SEA		30	67	118	0.43	0.9	1.8	D	C*D	
070888	121800.2	52.04	-3.09	325.4	238.1	7.2	1.0	HAY-ON-WYE,HER & WORC		7	7	140	0.06	0.6	0.4	B	A*C	
070888	172631.9	52.81	-5.65	153.9	329.5	6.8	1.4	IRISH SEA		30	40	118	0.40	0.9	1.9	C	C*C	
070888	185434.0	55.16	-3.15	326.7	585.4	11.6	-0.4	LANGHOLM,D & G		4	3	320	0.03	0.0	0.0	C	A*D	
070888	223247.6	52.02	-3.10	324.8	236.1	8.6	0.6	HAY-ON-WYE,HER & WORC		5	7	147	0.06	1.9	1.2	C	B*D	
070888	232350.5	52.03	-3.09	325.1	237.3	7.6	0.6	HAY-ON-WYE,HER & WORC		5	7	154	0.06	1.8	1.5	C	B*D	
080888	023314.5	52.78	-5.65	153.9	326.2	5.7	0.7	IRISH SEA		17	39	132	0.21	0.7	1.9	C	B*C	
080888	024312.6	52.78	-5.65	153.9	326.9	6.1	1.4	IRISH SEA		21	39	120	0.18	0.5	1.2	C	B*C	
080888	192043.5	52.04	-3.09	325.4	238.9	7.0	0.5	HAY-ON-WYE,HER & WORC		4	8	163	0.06	0.0	0.0	C	A*D	
100888	021941.6	52.01	-3.10	324.2	234.9	8.4	0.7	HAY-ON-WYE,HER & WORC		5	7	152	0.07	1.9	1.8	C	B*D	
110888	153423.5	52.04	-3.09	325.6	238.1	7.7	1.4	HAY-ON-WYE,HER & WORC		15	7	135	0.10	0.5	0.7	B	A*B	
110888	153918.0	52.05	-3.05	328.1	239.2	9.2	0.7	HAY-ON-WYE,HER & WORC		13	6	124	0.31	2.1	2.1	C	C*B	
120888	232537.2	56.10	-3.10	331.7	690.4	0.2	0.0	KIRKCALDY,FIFE		8	21	181	0.06	0.5	0.5	C	A*D	OFFSHORE,COALFIELD TYPE
140888	093316.7	54.49	-3.08	330.0	511.5	0.8	1.7	AMBLESIDE,CUMBRIA		9	27	219	0.31	4.1	3.7	D	C*D	
160888	090627.6	55.94	-4.83	223.2	675.8	0.2	1.0	GOUROCK,STRATHCLYDE		7	12	255	0.25	2.2	1.7	C	B*D	
180888	203614.9	53.18	-1.02	465.3	365.2	2.6	0.8	OLLERTON,NOTTS		5	35	205	0.10	0.5	0.9	C	A*D	COALFIELD TYPE
190888	064125.4	52.96	-4.37	240.5	342.9	24.9	2.1	LLEYN PEN,GWYNEDD	3+	19	4	87	0.08	0.3	0.8	A	A*A	AFTERSHOCK.FELT ANGLESEY, CAERNARVON
200888	010417.9	55.52	-2.56	364.5	625.7	2.3	0.6	JEDBURGH,BORDERS		9	20	141	0.09	0.4	0.7	B	A*C	
210888	185710.5	56.10	-3.10	331.7	690.5	0.2	0.1	KIRKCALDY,FIFE		7	21	182	0.09	0.7	0.8	C	A*D	OFFSHORE,COALFIELD TYPE
270888	155926.1	52.56	-0.94	472.0	296.2	3.6	0.8	SHANGTON,LEICS		5	32	229	0.06	0.7	0.8	C	A*D	
290888	181631.3	50.35	-5.25	168.9	55.1	6.3	-0.1	PERRANPORTH,CORNWALL		6	18	342	0.00	0.2	0.5	C	A*D	
310888	071651.4	52.96	-4.39	239.2	343.3	20.0	0.8	LLEYN PEN,GWYNEDD		13	3	87	0.12	0.7	0.8	A	A*A	AFTERSHOCK
020988	041738.8	55.86	-3.14	328.4	663.7	1.1	-0.1	ROSEWELL,LOTHIAN		14	0	166	0.07	0.3	0.1	B	A*C	COALFIELD TYPE
040988	032241.4	52.00	-3.11	323.5	234.1	10.2	0.0	HAY-ON-WYE,HER & WORC		4	8	218	0.02	0.0	0.0	C	A*D	
100988	161425.8	55.22	-3.35	314.2	592.8	1.5	0.5	JOHNSTONEBRIDGE,D & G		4	14	293	0.07	0.0	0.0	C	A*D	

CATALOGUE OF EVENTS : 1988

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120988	125757.1	59.11	2.85			5.6	1.4	NORTHERN NORTH SEA		52	30	317	0.10	23.3	24.5	D	D*D	
120988	142310.6	54.41	-2.98	336.3	502.7	15.0	3.2	AMBLESIDE,CUMBRIA	4+	30	34	84	0.22	0.7	0.8	C	B*C	FELT AMBLESIDE,CONISTON, WINDERMERE,KENDAL
120988	142329.3	54.40	-3.01	334.4	500.7	7.6	3.0	AMBLESIDE,CUMBRIA	4+	11	88	315	0.38	4.0	3.0	D	C*D	FELT AMBLESIDE,CONISTON, WINDERMERE,KENDAL
120988	142847.7	54.38	-2.93	339.8	498.7	7.5	1.8	AMBLESIDE,CUMBRIA	2+	9	39	250	0.19	2.5	4.4	C	B*D	FELT AMBLESIDE,CONISTON, WINDERMERE
130988	004727.9	52.64	-2.31	379.4	304.4	7.5	0.8	ALBRIGHTON,LINCS		9	42	145	0.25	1.3	3.8	C	B*C	
130988	110420.2	58.12	1.51			15.0	2.3	NORTHERN NORTH SEA		83	37	334	0.15	52.2	69.9	D	D*D	
130988	143116.5	50.11	-5.18	173.0	27.8	5.6	0.0	CONSTANTINE,CORNWALL		5	4	331	0.01	0.4	0.2	C	A*D	
150988	194016.1	53.02	-0.58	495.0	348.4	17.4	0.4	CAYTHORPE,LINCS		4	7	255	0.00	0.0	0.0	C	A*D	
170988	010957.9	52.98	-4.40	238.8	344.8	23.9	1.2	LLEYN PEN,GWYNEDD		21	2	81	0.15	0.5	1.1	B	B*A	AFTERSHOCK
170988	194421.3	52.76	-3.55	295.8	318.7	12.6	0.3	LAKE VYRNWY,POWYS		9	6	287	0.05	0.5	0.3	C	A*D	
200988	161656.2	51.68	-3.30	310.1	199.1	0.6	1.1	SE MERTHYR TYD,POWYS	3+	10	35	226	0.14	0.9	0.8	C	A*D	FELT MERTHYR VALLEY AND EDWARDSVILLE
240988	213623.6	51.78	-2.83	343.0	209.7	16.1	1.2	MONMOUTH,GLOUCS		9	16	142	0.16	1.1	1.5	C	B*C	
270988	092251.3	56.24	-3.74	292.3	706.6	3.7	0.8	GLENEAGLES,TAYSIDE		10	14	103	0.26	1.1	2.7	C	B*C	
280988	204405.5	56.25	-3.73	292.6	707.4	5.7	1.0	GLENEAGLES,TAYSIDE		11	14	103	0.15	0.9	1.7	C	B*C	
290988	175830.8	52.95	-4.39	239.4	342.1	19.5	1.1	LLEYN PEN,GWYNEDD		13	4	94	0.08	0.4	0.8	B	A*B	AFTERSHOCK
300988	075400.3	51.84	-3.27	312.4	216.5	0.1	0.7	NW MERTHYR TYD,POWYS		15	26	195	0.11	0.6	1.0	C	A*D	
011088	023909.3	53.23	-1.26	449.7	370.9	0.2	2.0	BOLSOVER,DERBYSHIRE		7	18	141	0.14	0.9	1.1	B	A*C	COALFIELD TYPE
041088	072343.1	52.19	-2.59	359.4	255.2	14.2	0.9	LEOMINSTER,HER & WORC		8	18	199	0.15	1.0	4.1	C	B*D	
051088	153322.3	51.86	-2.46	368.4	218.4	15.8	1.6	FOREST OF DEAN,GLOUC		5	20	241	0.05	1.0	3.5	C	B*D	
121088	004531.4	53.43	-1.16	455.7	393.2	1.4	1.3	MALTBY,S YORKSHIRE		7	31	273	0.23	5.7	5.1	D	D*D	COALFIELD TYPE
131088	020759.1	53.04	-2.12	392.1	348.7	1.1	1.0	STOKE-ON-TRENT,STAFFS		4	19	297	0.00	0.0	0.0	C	A*D	COALFIELD TYPE
131088	110022.4	51.75	-3.32	309.1	206.7	0.4	0.5	MERTHYR TYDFIL,POWYS		4	35	255	0.09	0.0	0.0	C	A*D	
131088	121750.1	51.68	-3.26	312.8	199.2	0.5	1.0	MERTHYR VALE,MID GLAM		7	32	240	0.11	1.4	1.2	C	B*D	
141088	133935.8	51.98	-3.70	283.1	233.1	1.0	1.2	HALFWAY FOREST,POWYS		15	32	214	0.20	1.1	2.6	C	B*D	
141088	164627.9	53.42	-1.33	444.4	391.4	1.9	2.2	ROTHERHAM,S YORKSHIRE		6	22	278	0.04	1.6	1.3	C	B*D	COALFIELD TYPE
151088	054728.1	55.86	-3.14	328.7	663.6	1.2	0.9	ROSEWELL,LOTHIAN		14	0	102	0.06	0.2	0.1	B	A*B	COALFIELD TYPE
171088	122532.4	51.83	-3.32	309.1	215.4	0.4	0.7	MERTHYR TYDFIL,POWYS		6	28	216	0.14	0.6	0.9	C	A*D	
201088	014229.6	53.03	-2.13	391.3	347.7	0.2	1.2	STOKE-ON-TRENT,STAFFS		4	19	298	0.02	0.0	0.0	C	A*D	COALFIELD TYPE
221088	130148.8	52.96	-4.39	239.7	343.5	23.4	0.6	LLEYN PEN,GWYNEDD		18	3	85	0.10	0.4	0.7	A	A*A	AFTERSHOCK
231088	005131.4	50.32	-4.92	192.4	51.2	2.6	-0.4	ST STEPHEN,CORNWALL		7	4	190	0.07	0.7	21.2	D	C*D	
231088	030155.1	51.24	-3.17	318.2	150.2	17.1	2.8	BRIDGEWATER,SOMERSET		27	9	91	0.20	0.5	0.5	B	B*B	
251088	225215.3	52.48	-2.07	395.1	286.6	9.3	0.8	DUDLEY,WEST MIDLANDS		9	56	131	0.22	1.6	6.5	D	C*D	
271088	014437.6	54.90	-1.11	456.9	556.4	4.2	1.4	SUNDERLAND,TYNE & WEAR		7	71	314	0.11	3.4	4.7	D	C*D	OFFSHORE,COALFIELD TYPE
271088	023350.7	52.99	-1.02	465.5	344.1	0.4	0.4	BURTON JOYCE,NOTTS		7	29	119	0.17	0.9	1.8	C	B*C	COALFIELD TYPE
291088	014548.0	53.14	-1.26	449.2	360.2	5.1	0.6	SUTTON-IN-ASHFLD,NOTTS		6	22	166	0.12	1.7	3.5	C	B*C	COALFIELD TYPE
301088	130005.9	55.24	-3.45	307.8	594.8	1.7	-0.1	JOHNSTONEBRIDGE,D & G		5	18	314	0.08	5.5	4.8	D	D*D	
011188	001648.0	53.07	-1.25	450.5	352.5	2.9	1.8	ANNESLEY,NOTTS		6	28	146	0.05	0.4	2.0	B	A*C	
031188	212442.4	54.92	-1.23	449.3	558.5	3.0	1.8	SUNDERLAND,TYNE & WEAR		7	63	310	0.22	6.7	10.0	D	D*D	OFFSHORE,COALFIELD TYPE
041188	131604.6	55.86	-3.14	328.9	663.4	1.2	2.2	ROSEWELL,LOTHIAN	4+	17	0	102	0.08	0.3	0.2	B	A*B	FELT ROSEWELL,LASSWADE, ROSLIN,LOANHEAD
071188	020632.1	55.85	-3.15	327.9	662.3	1.8	0.3	ROSEWELL,LOTHIAN		15	1	127	0.09	0.5	0.2	B	A*B	COALFIELD TYPE
071188	175544.9	53.06	-2.22	385.4	351.4	0.8	2.2	STOKE-ON-TRENT,STAFFS	4+	14	72	170	0.05	0.3	0.4	C	A*D	FELT AREA(50 SQ.KMS)
081188	030657.3	54.79	-1.28	446.5	544.7	3.9	1.6	PETERLEE,DURHAM		11	61	311	0.21	3.3	6.2	D	C*D	OFFSHORE,COALFIELD TYPE
081188	134221.7	56.11	-3.65	297.4	691.8	0.8	1.5	BLAIRHALL,FIFE		10	18	124	0.12	0.6	0.8	B	A*C	COALFIELD TYPE
101188	170600.5	52.96	-4.39	239.6	343.1	24.2	0.7	LLEYN PEN,GWYNEDD		11	3	86	0.04	0.3	0.7	A	A*A	AFTERSHOCK
131188	130452.3	56.51	-5.56	180.9	740.5	8.5	1.8	LISMORE,STRATHCLYDE		12	83	307	0.13	1.2	2.5	C	B*D	

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131188	232050.9	59.80	-0.46			29.2	2.9	EAST OF SHETLAND	2+	26	50	112	0.51	1.8	2.7	C	D*B	FELT SHETLAND & FAIR ISLE
151188	114417.4	50.01	-5.85	124.0	19.9	6.2	1.4	SW LANDS END,CORNWALL		8	25	337	0.06	5.4	13.8	D	D*D	
161188	032327.2	54.57	-3.80	283.4	521.4	1.9	0.9	WHITEHAVEN,CUMBRIA		6	22	274	0.14	3.0	2.0	D	C*D	
191188	235006.1	56.38	-5.48	185.2	726.7	7.7	0.9	OBAN,STRATHCLYDE		14	74	301	0.20	1.6	2.1	C	B*D	
221188	215243.0	53.35	2.35	689.6	392.8	7.7	2.7	SOUTHERN NORTH SEA		8	84	299	0.17	8.1	3.3	D	D*D	
231188	202849.0	53.23	-1.27	448.6	370.8	21.3	1.8	BOLSOVER,DERBYSHIRE		5	17	139	0.01	0.2	0.4	C	A*D	COALFIELD TYPE
241188	153352.4	50.11	-5.18	173.0	28.0	5.6	0.1	S CONSTANTINE,CORNWALL		7	3	161	0.02	0.3	0.4	B	A*C	
241188	154124.7	50.11	-5.18	172.6	28.1	6.1	0.2	S CONSTANTINE,CORNWALL		6	3	169	0.03	0.5	1.2	B	A*C	
241188	171719.0	50.11	-5.18	172.9	28.2	6.3	-0.1	S CONSTANTINE,CORNWALL		6	3	162	0.02	0.5	1.2	B	A*C	
241188	173914.6	50.11	-5.17	173.5	28.5	7.3	-0.4	S CONSTANTINE,CORNWALL		4	3	278	0.00	0.0	0.0	C	A*D	
241188	192557.2	50.11	-5.18	172.8	28.1	5.6	0.1	S CONSTANTINE,CORNWALL		8	3	166	0.03	0.3	0.7	B	A*C	
251188	003519.1	52.97	-4.40	238.5	343.8	21.9	0.6	LLEYN PEN,GWYNEDD		12	2	116	0.03	0.3	0.3	B	A*B	AFTERSHOCK
301188	140702.2	53.83	-3.81	280.9	438.2	10.0	1.1	IRISH SEA		25	58	158	0.24	1.0	1.7	C	B*D	
021288	082711.2	53.07	-2.14	390.9	352.5	16.5	1.4	STOKE-ON-TRENT,STAFFS		8	21	157	0.15	1.9	2.8	C	B*C	
051288	013122.2	52.96	-4.38	240.0	342.8	21.8	0.7	LLEYN PEN,GWYNEDD		14	4	87	0.10	0.5	0.7	A	A*A	AFTERSHOCK
061288	104433.2	50.53	-5.68	139.1	76.2	1.1	1.3	NW ST IVES,CORNWALL		7	50	324	0.03	0.6	41.8	D	C*D	
081288	055722.7	53.23	-1.19	454.4	370.2	0.5	1.9	LANGWITH,NOTTS/DERBS		7	23	146	0.51	4.2	7.1	D	D*C	COALFIELD TYPE
091288	125429.3	54.85	-1.41	438.1	551.0	1.0	1.8	SUNDERLAND,TYNE & WEAR		9	89	321	0.31	15.4	11.0	D	D*D	COALFIELD TYPE
101288	100918.8	56.09	-5.19	201.7	692.6	4.2	2.7	LOCH FYNE,STRATHCLYDE		20	38	291	0.11	0.9	1.0	C	A*D	
101288	153727.4	56.08	-5.15	203.8	692.3	2.6	1.1	LOCH FYNE,STRATHCLYDE		14	37	288	0.24	2.4	2.7	C	B*D	
121288	225319.7	54.78	-1.28	446.4	542.8	1.7	1.5	PETERLEE,DURHAM		14	61	313	0.35	9.8	6.8	D	D*D	COALFIELD TYPE
161288	075004.0	57.17	-5.55	185.4	814.8	4.9	0.5	GLENELG,HIGHLAND		10	9	180	0.11	0.7	0.8	B	A*C	
171288	110140.6	52.96	-4.42	237.4	343.2	21.6	0.8	LLEYN PEN,GWYNEDD		12	2	129	0.06	0.5	0.5	B	A*B	AFTERSHOCK
171288	151509.2	56.14	-3.70	294.6	695.9	0.5	1.0	TILLICOULTRY,CENTRAL		9	16	121	0.12	0.3	0.4	B	A*C	COALFIELD TYPE
171288	153528.4	53.51	-1.18	454.2	402.4	3.7	1.6	DONCASTER,S YORKSHIRE		8	26	130	0.02	0.2	0.3	B	A*C	
191288	031926.2	55.87	-2.76	352.7	664.4	0.5	-0.6	GIFFORD,LOTHIAN		6	10	180	0.22	2.2	2.4	C	B*C	
221288	084743.4	52.96	-4.38	239.9	343.4	23.1	0.8	LLEYN PEN,GWYNEDD		12	3	144	0.04	0.2	0.3	B	A*C	AFTERSHOCK
221288	173625.9	53.06	-1.24	451.0	352.0	4.2	1.6	ANNESLEY,NOTTS		6	29	159	0.05	1.2	4.0	C	B*C	
241288	084456.1	56.08	-5.17	202.6	692.1	0.5	0.7	LOCH FYNE,STRATHCLYDE		13	37	290	0.11	4.5	3.1	D	C*D	
241288	084518.4	56.08	-5.19	201.6	692.1	0.5	0.4	LOCH FYNE,STRATHCLYDE		10	38	291	0.42	22.0	16.1	D	D*D	
291288	161853.1	55.21	-3.40	311.1	592.1	1.7	0.8	JOHNSTONEBRIDGE,D & G		4	17	305	0.08	0.0	0.0	C	A*D	
311288	053657.1	53.52	-2.31	379.8	402.3	2.4	1.9	MANCHESTER		23	31	129	0.21	0.6	1.0	C	B*C	
311288	135337.1	52.38	-6.73	78.0	286.7	0.7	1.8	WEXFORD,EIRE		17	34	273	0.27	2.7	3.0	D	C*D	

Table 2

CATALOGUE OF EVENTS : 1988

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...
131188	232050.9	59.80	-0.46			29.2	2.9	EAST OF SHETLAND	2+	26	50	112	0.51	1.8	2.7	C	D*B	FELT SHETLAND & FAIR ISLE
200288	162109.9	59.76	1.88			27.6	1.7	NORTH SEA		5	176	171	0.54	4.0	8.3	D	D*D	
130188	152153.0	59.72	1.64			1.0	2.4	NORTH SEA		14	164	176	0.57	4.4	2.9	D	D*D	
030888	212601.3	59.65	1.67			4.0	2.3	NORTHERN NORTH SEA		17	168	180	0.45	3.6	4.4	D	C*D	
250288	094021.4	59.56	1.85			8.5	2.1	NORTH SEA		12	180	225	0.25	4.8	4.6	D	C*D	
120988	125757.1	59.11	2.85			5.6	1.4	NORTHERN NORTH SEA		5	230	317	0.10	23.3	24.5	D	D*D	
210188	152807.8	58.41	1.49			0.6	3.0	NORTH SEA		14	234	177	0.11	0.6	0.6	C	A*D	
130988	110420.2	58.12	1.51			15.0	2.3	NORTHERN NORTH SEA		8	337	334	0.15	52.2	69.9	D	D*D	
040588	124109.5	57.97	-5.22	209.8	902.9	8.2	2.2	ULLAPOOL,HIGHLAND		4	62	255	0.04	0.0	0.0	C	A*D	
010888	182625.4	57.94	-5.13	214.6	898.4	2.4	1.0	ULLAPOOL,HIGHLAND		4	56	319	0.07	0.0	0.0	C	A*D	
200188	212314.6	57.92	-5.15	213.5	897.1	5.9	1.4	ULLAPOOL,HIGHLAND		15	48	223	0.72	5.9	13.0	D	D*D	
020188	083028.3	57.92	-5.08	217.4	896.4	7.5	1.4	ULLAPOOL,HIGHLAND		12	49	219	0.77	5.2	12.7	D	D*D	
120288	015821.5	57.92	-5.02	220.9	896.7	0.2	1.1	ULLAPOOL,HIGHLAND		5	50	283	0.05	0.2	0.2	C	A*D	
200488	080850.7	57.76	-4.00	281.2	876.6	6.8	1.1	TAIN,HIGHLAND		11	21	146	0.18	2.5	4.4	C	B*C	
080188	121417.1	57.49	-3.00	340.1	844.9	2.6	0.5	KEITH,GRAMPIAN		4	18	230	0.08	0.0	0.0	C	A*D	
160188	093321.4	57.42	-5.30	201.9	841.2	14.1	-0.7	LOCHCARRON,HIGHLAND		6	9	197	0.57	9.7	12.6	D	D*D	
070288	120153.1	57.35	-5.58	184.8	834.5	3.1	2.4	PLOCKTON,HIGHLAND		7	5	150	0.11	0.9	2.8	C	B*C	
080288	100528.9	57.35	-5.57	185.1	834.7	3.9	1.9	PLOCKTON,HIGHLAND		6	5	152	0.12	0.2	0.7	B	A*C	
140188	120137.2	57.35	-5.03	217.8	832.6	1.9	1.7	L MULLARDOCH,HIGHLAND		16	41	236	0.35	2.8	2.1	D	C*D	
260188	131015.9	57.25	-5.34	198.7	822.3	17.6	0.3	KINTAIL,HIGHLAND		5	7	227	0.38	11.2	9.1	D	D*D	
161288	075004.0	57.17	-5.55	185.4	814.8	4.9	0.5	GLENELG,HIGHLAND		10	9	180	0.11	0.7	0.8	B	A*C	
080488	103501.8	56.96	-4.64	239.7	788.9	5.0	1.8	INVERGARRY,HIGHLAND		23	79	191	0.34	1.4	3.1	D	C*D	
300788	075248.0	56.88	-4.90	223.5	779.7	3.5	2.4	FORT WILLIAM,HIGHLAND		21	69	149	0.28	1.3	3.8	C	B*D	
070288	130528.9	56.85	-5.03	215.3	777.0	3.2	1.6	FORT WILLIAM,HIGHLAND		7	47	175	0.02	0.4	0.8	B	A*C	
260288	174722.5	56.66	-4.59	241.2	755.6	1.0	0.7	RANNOCH MOOR,TAYSIDE		7	55	294	0.09	5.2	4.0	D	D*D	
230588	061334.5	56.63	-4.45	249.7	751.3	8.8	2.6	RANNOCH MOOR,TAYSIDE		22	49	99	0.28	0.8	16.9	C	C*C	
080688	080703.2	56.59	-6.25	139.1	751.9	2.2	2.1	MULL,STRATHCLYDE		16	86	252	0.18	3.1	1.8	D	C*D	
140588	012604.6	56.59	-4.26	261.2	746.1	3.6	1.7	RANNOCH MOOR,TAYSIDE		16	36	253	0.22	2.3	1.8	C	B*D	
240588	093409.4	56.57	-4.43	250.5	744.2	3.1	1.4	RANNOCH MOOR,TAYSIDE		6	42	279	0.08	4.6	8.4	D	C*D	
200188	221234.6	56.53	-5.60	178.9	743.4	0.8	1.7	L LINNHE,STRATHCLYDE		6	86	213	0.14	2.9	1.7	D	C*D	
270588	041229.9	56.53	-4.36	254.7	740.2	1.5	0.7	RANNOCH MOOR,TAYSIDE		7	38	271	0.23	14.6	10.9	D	D*D	
131188	130452.3	56.51	-5.56	180.9	740.5	8.5	1.8	LISMORE,STRATHCLYDE		12	83	307	0.13	1.2	2.5	C	B*D	
070188	055016.5	56.51	-5.09	210.1	739.3	2.7	1.0	LOCH ETIVE,STRATHCLYDE		13	58	284	0.27	4.2	8.0	D	C*D	
120588	054928.6	56.48	-5.37	192.6	737.3	1.5	1.4	LOCH ETIVE,STRATHCLYDE		4	81	352	0.10	0.0	0.0	C	A*D	
300188	051831.1	56.42	-4.94	218.7	728.7	1.0	0.7	DALMALLY,STRATHCLYDE		7	45	318	0.19	17.6	14.2	D	D*D	
010888	142834.2	56.40	-5.56	180.1	728.8	10.9	1.4	OBAN,STRATHCLYDE		12	79	306	0.20	2.1	2.7	C	B*D	
191188	235006.1	56.38	-5.48	185.2	726.7	7.7	0.9	OBAN,STRATHCLYDE		14	74	301	0.20	1.6	2.1	C	B*D	
310388	230911.4	56.37	-5.72	170.3	725.4	6.2	1.2	MULL,STRATHCLYDE		13	84	311	0.16	3.5	6.8	D	C*D	
180488	151350.4	56.30	-4.31	257.4	714.9	2.4	0.3	STRATHYRE,CENTRAL		6	13	234	0.14	3.3	2.1	D	C*D	
280988	204405.5	56.25	-3.73	292.6	707.4	5.7	1.0	GLENEAGLES,TAYSIDE		11	14	103	0.15	0.9	1.7	C	B*C	
270988	092251.3	56.24	-3.74	292.3	706.6	3.7	0.8	GLENEAGLES,TAYSIDE		10	14	103	0.26	1.1	2.7	C	B*C	
310188	002932.9	56.20	-4.07	271.5	703.2	1.9	-0.1	DOUNE,CENTRAL		4	17	182	0.03	0.0	0.0	C	A*D	
240388	195514.1	56.19	-5.70	170.2	705.5	8.5	1.6	SCARBA,STRATHCLYDE		13	71	239	0.19	2.0	3.7	C	B*D	
200788	190643.1	56.17	-4.80	225.9	701.2	3.2	1.0	LOCH LONG,STRATHCLYDE		15	29	255	0.14	1.1	1.3	C	B*D	
070588	142443.7	56.15	-3.69	294.8	696.3	0.1	1.0	DOLLAR,CENTRAL		9	16	120	0.05	0.3	0.5	B	A*C	COALFIELD TYPE
171288	151509.2	56.14	-3.70	294.6	695.9	0.5	1.0	TILLICOULTRY,CENTRAL		9	16	121	0.12	0.3	0.4	B	A*C	COALFIELD TYPE
120388	115601.7	56.13	-3.65	297.5	694.3	0.5	0.7	SALINE,FIFE		8	16	119	0.08	0.4	0.9	B	A*C	COALFIELD TYPE
300388	150331.3	56.12	-3.63	298.8	692.8	0.2	1.3	SALINE,FIFE		10	16	120	0.20	0.8	1.2	C	B*C	COALFIELD TYPE
060188	165902.9	56.11	-3.68	295.3	691.7	0.5	1.2	CLACKMANNAN,CENTRAL		8	19	204	0.28	2.6	2.7	D	C*D	COALFIELD TYPE
081188	134221.7	56.11	-3.65	297.4	691.8	0.8	1.5	BLAIRHALL,FIFE		10	18	124	0.12	0.6	0.8	B	A*C	COALFIELD TYPE

CATALOGUE OF EVENTS : 1988

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...
050488	121050.6	56.10	-3.64	298.0	691.4	0.1	0.9	SALINE,FIFE		10	18	124	0.14	0.6	0.9	B	A*C	COALFIELD TYPE
240288	164632.6	56.10	-3.63	298.7	691.5	0.2	0.9	BLAIRHALL,FIFE		10	18	122	0.09	0.3	0.5	B	A*C	COALFIELD TYPE
120888	232537.2	56.10	-3.10	331.7	690.4	0.2	0.0	KIRKCALDY,FIFE		8	21	181	0.06	0.5	0.5	C	A*D	OFFSHORE,COALFIELD TYPE
210888	185710.5	56.10	-3.10	331.7	690.5	0.2	0.1	KIRKCALDY,FIFE		7	21	182	0.09	0.7	0.8	C	A*D	OFFSHORE,COALFIELD TYPE
250288	063027.5	56.10	-3.09	332.0	690.8	0.2	0.3	KIRKCALDY,FIFE		12	21	119	0.07	0.3	0.4	B	A*C	COALFIELD TYPE
101288	100918.8	56.09	-5.19	201.7	692.6	4.2	2.7	LOCH FYNE,STRATHCLYDE		20	38	291	0.11	0.9	1.0	C	A*D	
241288	084518.4	56.08	-5.19	201.6	692.1	0.5	0.4	LOCH FYNE,STRATHCLYDE		10	38	291	0.42	22.0	16.1	D	D*D	
241288	084456.1	56.08	-5.17	202.6	692.1	0.5	0.7	LOCH FYNE,STRATHCLYDE		13	37	290	0.11	4.5	3.1	D	C*D	
101288	153727.4	56.08	-5.15	203.8	692.3	2.6	1.1	LOCH FYNE,STRATHCLYDE		14	37	288	0.24	2.4	2.7	C	B*D	
120588	123612.1	56.06	-4.94	216.9	689.1	2.7	0.7	LOCH ECK,STRATHCLYDE		11	27	266	0.14	1.0	1.6	C	B*D	
280388	155036.5	56.04	-5.06	209.6	687.2	0.4	1.1	LOCH ECK,STRATHCLYDE		13	29	282	0.17	4.2	3.1	D	C*D	
040688	031136.6	56.02	-6.06	146.8	688.5	2.9	1.7	JURA,STRATHCLYDE		20	85	262	0.20	2.3	3.4	C	B*D	
280788	125307.5	56.02	-5.21	199.7	685.4	2.6	0.9	GLENDARUEL,STRATHCLYDE		5	35	330	0.03	1.4	1.1	C	B*D	
250688	212506.4	55.95	-4.81	224.7	676.4	2.4	1.3	GREENOCK,STRATHCLYDE		8	12	247	0.28	1.7	1.5	C	B*D	
020288	132904.0	55.95	-4.74	228.8	676.0	6.3	0.3	GREENOCK,STRATHCLYDE		8	11	263	0.13	1.5	1.5	C	B*D	
160888	090627.6	55.94	-4.83	223.2	675.8	0.2	1.0	GOUROCK,STRATHCLYDE		7	12	255	0.25	2.2	1.7	C	B*D	
230488	081229.9	55.91	-4.00	274.9	670.7	5.4	0.6	CUMBERNAULD,S'CLYDE		11	10	209	0.10	0.7	0.7	C	A*D	
160388	064023.8	55.91	-3.99	275.8	670.8	4.1	1.0	CUMBERNAULD,S'CLYDE		14	11	144	0.12	0.4	0.9	B	A*C	
200488	160752.5	55.91	-3.99	275.8	669.9	1.9	0.8	CUMBERNAULD,S'CLYDE		12	11	149	0.11	0.4	0.6	B	A*C	
250488	000312.9	55.91	-3.99	275.4	670.6	2.4	0.6	CUMBERNAULD,S'CLYDE		12	11	147	0.19	0.6	1.0	C	B*C	
250488	071406.6	55.91	-3.99	275.5	670.5	6.3	1.2	CUMBERNAULD,S'CLYDE		13	11	147	0.11	0.5	0.6	B	A*C	
120588	001422.0	55.88	-3.10	331.2	665.4	1.8	1.1	BONNYRIGG,LOTHIAN	3+	11	3	321	0.05	0.8	1.5	C	A*D	FELT BONNYRIGG,COALFIELD TYPE
170188	231511.6	55.87	-4.45	246.9	667.1	2.1	0.4	RENFREW,STRATHCLYDE		4	7	294	0.01	0.0	0.0	C	A*D	
060388	065709.4	55.87	-4.44	247.0	666.3	5.0	0.6	RENFREW,STRATHCLYDE		6	7	244	0.01	0.4	0.5	C	A*D	
191288	031926.2	55.87	-2.76	352.7	664.4	0.5	-0.6	GIFFORD,LOTHIAN		6	10	180	0.22	2.2	2.4	C	B*C	
230688	013705.4	55.86	-3.15	328.3	663.2	0.5	0.0	ROSEWELL,LOTHIAN		6	8	164	0.10	1.2	1.4	C	B*C	COALFIELD TYPE
020988	041738.8	55.86	-3.14	328.4	663.7	1.1	-0.1	ROSEWELL,LOTHIAN		14	0	166	0.07	0.3	0.1	B	A*C	COALFIELD TYPE
151088	054728.1	55.86	-3.14	328.7	663.6	1.2	0.9	ROSEWELL,LOTHIAN		14	0	102	0.06	0.2	0.1	B	A*B	COALFIELD TYPE
041188	131604.6	55.86	-3.14	328.9	663.4	1.2	2.2	ROSEWELL,LOTHIAN	4+	17	0	102	0.08	0.3	0.2	B	A*B	FELT ROSEWELL,LASSWADE, ROSLIN,LOANHEAD
270288	185810.1	55.85	-3.15	328.2	661.9	1.6	0.0	ROSEWELL,LOTHIAN		6	9	157	0.09	0.7	0.9	B	A*C	COALFIELD TYPE
071188	020632.1	55.85	-3.15	327.9	662.3	1.8	0.3	ROSEWELL,LOTHIAN		15	1	127	0.09	0.5	0.2	B	A*B	COALFIELD TYPE
150488	094111.5	55.85	-3.14	328.5	661.9	0.1	0.1	ROSEWELL,LOTHIAN		8	9	127	0.06	0.3	0.4	B	A*B	COALFIELD TYPE
140688	100039.2	55.85	-3.14	328.6	661.9	0.3	0.9	ROSEWELL,LOTHIAN		8	9	127	0.10	0.2	0.2	B	A*B	COALFIELD TYPE
170188	023322.9	55.85	-3.13	329.4	662.6	4.6	0.2	ROSEWELL,LOTHIAN		6	9	172	0.03	0.4	1.3	B	A*C	COALFIELD TYPE
270188	083810.5	55.85	-3.13	329.2	662.6	1.9	0.6	ROSEWELL,LOTHIAN		8	9	120	0.09	0.5	0.8	B	A*B	COALFIELD TYPE
270288	112505.9	55.85	-3.13	329.4	662.2	0.8	0.1	ROSEWELL,LOTHIAN		5	9	171	0.12	0.4	0.5	C	A*D	COALFIELD TYPE
100488	014904.5	55.85	-3.13	329.2	662.9	0.4	0.1	ROSEWELL,LOTHIAN		5	8	173	0.03	0.2	0.1	C	A*D	COALFIELD TYPE
080688	053151.3	55.85	-3.13	329.0	662.5	0.2	-0.1	ROSEWELL,LOTHIAN		4	9	290	0.03	0.0	0.0	C	A*D	COALFIELD TYPE
220288	180956.3	55.85	-3.12	330.1	662.3	0.0	-0.2	ROSEWELL,LOTHIAN		4	9	180	0.04	0.0	0.0	C	A*D	COALFIELD TYPE
050688	235210.1	55.85	-3.12	329.8	662.9	0.9	0.5	ROSEWELL,LOTHIAN		6	9	179	0.04	0.7	0.7	B	A*C	COALFIELD TYPE
020588	050611.2	55.85	-3.11	330.2	662.2	0.1	0.1	ROSEWELL,LOTHIAN		7	9	117	0.16	1.0	1.0	B	B*B	COALFIELD TYPE
070588	143646.6	55.85	-3.11	330.5	663.0	4.0	0.7	ROSEWELL,LOTHIAN		8	9	112	0.12	0.6	2.7	B	B*B	COALFIELD TYPE
030888	163838.0	55.82	-6.27	132.6	666.3	0.4	1.9	ISLAY,STRATHCLYDE		15	96	330	0.33	5.3	3.7	D	D*D	
250488	045623.9	55.58	-3.04	334.3	632.2	7.2	0.7	INNERLEITHEN,BORDERS		8	22	164	0.12	0.3	0.7	B	A*C	
200888	010417.9	55.52	-2.56	364.5	625.7	2.3	0.6	JEDBURGH,BORDERS		9	20	141	0.09	0.4	0.7	B	A*C	
200188	141823.1	55.51	-3.01	336.0	624.9	6.1	1.0	ETTRICKBRIDGE,BORDERS		11	25	162	0.19	1.8	1.4	C	B*C	
080788	165132.9	55.47	-2.98	337.9	620.5	4.9	0.7	ETTRICKBRIDGE,BORDERS		10	22	127	0.11	1.0	2.1	C	B*C	
170388	012633.8	55.37	-3.29	318.1	609.7	1.1	1.1	MOFFAT,D & G		4	8	345	0.05	0.0	0.0	C	A*D	

CATALOGUE OF EVENTS : 1988

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...
190588	134403.7	55.33	-2.49	369.1	604.4	7.1	0.4	BYRNESS,NORTHUMBERLAND		6	23	207	0.10	1.4	1.6	C	B*D	
301088	130005.9	55.24	-3.45	307.8	594.8	1.7	-0.1	JOHNSTONEBRIDGE,D & G		5	18	314	0.08	5.5	4.8	D	D*D	
200388	073145.2	55.24	-3.44	308.5	594.9	2.6	-0.3	JOHNSTONEBRIDGE,D & G		4	17	312	0.09	0.0	0.0	C	A*D	
230388	215315.5	55.24	-3.44	308.5	594.9	2.1	0.3	JOHNSTONEBRIDGE,D & G		4	17	312	0.01	0.0	0.0	C	A*D	
210288	022324.0	55.24	-3.43	309.2	595.0	1.4	-0.2	JOHNSTONEBRIDGE,D & G		4	17	310	0.04	0.0	0.0	C	A*D	
210288	024403.3	55.24	-3.43	309.3	595.0	1.3	-0.2	JOHNSTONEBRIDGE,D & G		4	16	310	0.05	0.0	0.0	C	A*D	
190388	223103.9	55.24	-3.43	308.8	595.0	2.4	-0.2	JOHNSTONEBRIDGE,D & G		4	17	311	0.01	0.0	0.0	C	A*D	
200388	032839.8	55.23	-3.46	307.3	594.3	2.6	-0.1	JOHNSTONEBRIDGE,D & G		4	18	315	0.03	0.0	0.0	C	A*D	
200388	110454.7	55.23	-3.46	307.1	593.8	5.7	1.8	JOHNSTONEBRIDGE,D & G		27	19	97	0.21	0.6	1.0	C	B*C	
200388	042415.5	55.23	-3.43	309.2	594.2	2.7	0.1	JOHNSTONEBRIDGE,D & G		4	17	310	0.08	0.0	0.0	C	A*D	
230388	091806.3	55.23	-3.43	309.0	594.1	2.6	-0.1	JOHNSTONEBRIDGE,D & G		4	17	310	0.08	0.0	0.0	C	A*D	
290388	052457.8	55.22	-3.37	312.7	592.1	2.8	0.1	JOHNSTONEBRIDGE,D & G		4	15	300	0.08	0.0	0.0	C	A*D	
200688	133242.8	55.22	-3.37	313.1	592.5	2.8	-0.1	JOHNSTONEBRIDGE,D & G		4	15	298	0.07	0.0	0.0	C	A*D	
060388	141024.2	55.22	-3.36	313.7	592.4	3.6	1.7	JOHNSTONEBRIDGE,D & G		18	15	122	0.08	0.4	0.8	B	A*C	
100988	161425.8	55.22	-3.35	314.2	592.8	1.5	0.5	JOHNSTONEBRIDGE,D & G		4	14	293	0.07	0.0	0.0	C	A*D	
291288	161853.1	55.21	-3.40	311.1	592.1	1.7	0.8	JOHNSTONEBRIDGE,D & G		4	17	305	0.08	0.0	0.0	C	A*D	
230288	075507.6	55.21	-2.84	346.3	590.4	2.6	1.3	NEWCASTLETON,BORDERS		5	18	212	0.12	0.2	0.9	C	A*D	
070888	185434.0	55.16	-3.15	326.7	585.4	11.6	-0.4	LANGHOLM,D & G		4	3	320	0.03	0.0	0.0	C	A*D	
080488	185555.9	55.08	-3.56	300.6	577.2	2.2	0.9	DUMFRIES,D & G		4	30	333	0.08	0.0	0.0	C	A*D	
070588	105431.9	55.03	-2.90	342.2	571.0	1.0	0.2	LONGTOWN,CUMBRIA		4	22	351	0.13	0.0	0.0	C	A*D	
070588	093245.6	55.03	-2.88	343.8	570.9	1.0	0.6	LONGTOWN,CUMBRIA		4	23	350	0.14	0.0	0.0	C	A*D	
150488	085601.2	55.01	-2.88	343.9	569.3	3.0	0.5	LONGTOWN,CUMBRIA		5	24	282	0.02	0.6	1.3	C	A*D	
230488	094928.5	55.01	-2.84	346.3	569.2	1.4	2.4	LONGTOWN,CUMBRIA		11	26	103	0.23	0.9	1.5	C	B*C	
031188	212442.4	54.92	-1.23	449.3	558.5	3.0	1.8	SUNDERLAND,TYNE & WEAR		7	63	310	0.22	6.7	10.0	D	D*D	OFFSHORE,COALFIELD TYPE
271088	014437.6	54.90	-1.11	456.9	556.4	4.2	1.4	SUNDERLAND,TYNE & WEAR		7	71	314	0.11	3.4	4.7	D	C*D	OFFSHORE,COALFIELD TYPE
091288	125429.3	54.85	-1.41	438.1	551.0	1.0	1.8	SUNDERLAND,TYNE & WEAR		9	89	321	0.31	15.4	11.0	D	D*D	COALFIELD TYPE
050588	030631.8	54.85	-1.27	446.6	551.3	7.3	2.0	SUNDERLAND,TYNE & WEAR	3+	10	60	290	0.04	0.6	1.0	C	A*D	FELT RYHOPE,COALFIELD TYPE
081188	030657.3	54.79	-1.28	446.5	544.7	3.9	1.6	PETERLEE,DURHAM		11	61	311	0.21	3.3	6.2	D	C*D	OFFSHORE,COALFIELD TYPE
121288	225319.7	54.78	-1.28	446.4	542.8	1.7	1.5	PETERLEE,DURHAM		14	61	313	0.35	9.8	6.8	D	D*D	COALFIELD TYPE
161188	032327.2	54.57	-3.80	283.4	521.4	1.9	0.9	WHITEHAVEN,CUMBRIA		6	22	274	0.14	3.0	2.0	D	C*D	
140888	093316.7	54.49	-3.08	330.0	511.5	0.8	1.7	AMBLESIDE,CUMBRIA		9	27	219	0.31	4.1	3.7	D	C*D	
120988	142310.6	54.41	-2.98	336.3	502.7	15.0	3.2	AMBLESIDE,CUMBRIA	4+	30	34	84	0.22	0.7	0.8	C	B*C	FELT AMBLESIDE,CONISTON, WINDERMERE,KENDAL
120988	142329.3	54.40	-3.01	334.4	500.7	7.6	3.0	AMBLESIDE,CUMBRIA	4+	11	88	315	0.38	4.0	3.0	D	C*D	FELT AMBLESIDE,CONISTON, WINDERMERE,KENDAL
120988	142847.7	54.38	-2.93	339.8	498.7	7.5	1.8	AMBLESIDE,CUMBRIA	2+	9	39	250	0.19	2.5	4.4	C	B*D	FELT AMBLESIDE,CONISTON, WINDERMERE
220688	033558.1	53.92	-1.04	463.2	447.2	6.7	1.7	YORK,N YORKSHIRE		5	20	269	0.11	4.7	3.9	D	C*D	
301188	140702.2	53.83	-3.81	280.9	438.2	10.0	1.1	IRISH SEA		25	58	158	0.24	1.0	1.7	C	B*D	
170688	171441.5	53.77	-2.32	379.2	430.2	8.8	1.5	ACCRINGTON,LANCASHIRE		13	35	197	0.11	1.0	2.3	C	B*D	
290788	174108.2	53.64	-1.74	416.9	415.9	15.3	1.8	HUDDERSFIELD,W YORKS		6	26	164	0.02	0.5	1.7	B	A*C	
311288	053657.1	53.52	-2.31	379.8	402.3	2.4	1.9	MANCHESTER		23	31	129	0.21	0.6	1.0	C	B*C	
200588	013822.1	53.52	-1.32	445.1	403.4	3.5	1.8	DEARNE,S YORKSHIRE		7	33	165	0.34	3.3	6.0	C	C*C	COALFIELD TYPE
171288	153528.4	53.51	-1.18	454.2	402.4	3.7	1.6	DONCASTER,S YORKSHIRE		8	26	130	0.02	0.2	0.3	B	A*C	
230388	045349.3	53.45	-2.33	378.0	395.2	9.8	1.1	SALFORD,GT MANCHESTER	3+	7	109	335	0.21	8.5	3.9	D	D*D	FELT LEIGH,LANCS
121088	004531.4	53.43	-1.16	455.7	393.2	1.4	1.3	MALTBY,S YORKSHIRE		7	31	273	0.23	5.7	5.1	D	D*D	COALFIELD TYPE
141088	164627.9	53.42	-1.33	444.4	391.4	1.9	2.2	ROTHERHAM,S YORKSHIRE		6	22	278	0.04	1.6	1.3	C	B*D	COALFIELD TYPE
221188	215243.0	53.35	2.35	689.6	392.8	7.7	2.7	SOUTHERN NORTH SEA		8	84	299	0.17	8.1	3.3	D	D*D	
180488	060700.5	53.33	-2.36	375.8	382.0	21.6	1.2	KNUTSFORD,CHESHIRE		22	85	122	0.20	0.5	4.4	C	B*D	

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Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
110388	195638.4	53.31	-4.98	201.6	383.4	2.8	-0.3	HOLYHEAD,GWYNEDD		6	28	332	0.08	1.7	25.2	D	C*D	
231188	202849.0	53.23	-1.27	448.6	370.8	21.3	1.8	BOLSOVER,DERBYSHIRE		5	17	139	0.01	0.2	0.4	C	A*D	COALFIELD TYPE
011088	023909.3	53.23	-1.26	449.7	370.9	0.2	2.0	BOLSOVER,DERBYSHIRE		7	18	141	0.14	0.9	1.1	B	A*C	COALFIELD TYPE
081288	055722.7	53.23	-1.19	454.4	370.2	0.5	1.9	LANGWITH,NOTTS/DERBS		7	23	146	0.51	4.2	7.1	D	D*C	COALFIELD TYPE
180888	203614.9	53.18	-1.02	465.3	365.2	2.6	0.8	OLLERTON,NOTTS		5	35	205	0.10	0.5	0.9	C	A*D	COALFIELD TYPE
291088	014548.0	53.14	-1.26	449.2	360.2	5.1	0.6	SUTTON-IN-ASHFLD,NOTTS		6	22	166	0.12	1.7	3.5	C	B*C	COALFIELD TYPE
120188	090258.0	53.12	-4.35	242.4	360.7	13.4	1.0	CAERNARVON,GWYNEDD		25	13	105	0.14	0.3	0.7	B	A*B	
230788	002931.4	53.08	-1.83	411.4	353.5	11.9	0.4	WETTON,STAFFS		5	7	219	0.00	0.1	0.2	C	A*D	
021288	082711.2	53.07	-2.14	390.9	352.5	16.5	1.4	STOKE-ON-TRENT,STAFFS		8	21	157	0.15	1.9	2.8	C	B*C	
011188	001648.0	53.07	-1.25	450.5	352.5	2.9	1.8	ANNESLEY,NOTTS		6	28	146	0.05	0.4	2.0	B	A*C	
071188	175544.9	53.06	-2.22	385.4	351.4	0.8	2.2	STOKE-ON-TRENT,STAFFS	4+	14	72	170	0.05	0.3	0.4	C	A*D	FELT AREA(50 SQ.KMS)
221288	173625.9	53.06	-1.24	451.0	352.0	4.2	1.6	ANNESLEY,NOTTS		6	29	159	0.05	1.2	4.0	C	B*C	
131088	020759.1	53.04	-2.12	392.1	348.7	1.1	1.0	STOKE-ON-TRENT,STAFFS		4	19	297	0.00	0.0	0.0	C	A*D	COALFIELD TYPE
201088	014229.6	53.03	-2.13	391.3	347.7	0.2	1.2	STOKE-ON-TRENT,STAFFS		4	19	298	0.02	0.0	0.0	C	A*D	COALFIELD TYPE
060288	050835.6	53.02	-4.48	233.4	349.8	12.9	0.6	NW LLEYN,GWYNEDD		18	6	142	0.11	0.4	0.3	B	A*C	
150988	194016.1	53.02	-0.58	495.0	348.4	17.4	0.4	CAYTHORPE,LINCS		4	7	255	0.00	0.0	0.0	C	A*D	
040188	005117.0	53.01	-3.99	266.4	347.3	13.2	-0.5	B FFESTINIOG,GWYNEDD		9	3	134	0.08	0.5	0.8	B	A*B	
230188	050449.8	52.99	-4.42	237.4	346.5	24.1	0.3	LLEYN PEN,GWYNEDD		8	1	187	0.07	0.9	0.8	C	A*D	AFTERSHOCK
271088	023350.7	52.99	-1.02	465.5	344.1	0.4	0.4	BURTON JOYCE,NOTTS		7	29	119	0.17	0.9	1.8	C	B*C	COALFIELD TYPE
190788	052028.9	52.98	-4.41	238.2	345.6	23.9	0.1	LLEYN PEN,GWYNEDD		11	1	130	0.20	1.3	1.7	B	B*B	AFTERSHOCK
170988	010957.9	52.98	-4.40	238.8	344.8	23.9	1.2	LLEYN PEN,GWYNEDD		21	2	81	0.15	0.5	1.1	B	B*A	AFTERSHOCK
310388	100946.0	52.97	-4.41	238.3	343.9	22.4	0.9	LLEYN PEN,GWYNEDD		21	2	96	0.09	0.3	0.5	B	A*B	AFTERSHOCK
160788	020254.1	52.97	-4.41	238.4	343.7	23.1	0.5	LLEYN PEN,GWYNEDD		15	2	116	0.11	0.5	0.6	B	A*B	AFTERSHOCK
240488	090112.7	52.97	-4.40	238.5	344.3	24.1	0.2	LLEYN PEN,GWYNEDD		8	2	138	0.07	0.8	0.7	B	A*C	AFTERSHOCK
010688	070302.8	52.97	-4.40	239.0	344.6	24.1	0.5	LLEYN PEN,GWYNEDD		10	2	153	0.11	1.1	0.9	C	B*C	AFTERSHOCK
120788	041736.2	52.97	-4.40	238.9	344.2	23.5	1.7	LLEYN PEN,GWYNEDD		22	2	83	0.09	0.3	0.7	A	A*A	AFTERSHOCK
250788	095851.2	52.97	-4.40	238.6	344.6	21.9	1.2	LLEYN PEN,GWYNEDD		15	2	113	0.14	0.6	0.9	B	A*B	AFTERSHOCK
250788	095906.0	52.97	-4.40	238.6	344.5	20.5	0.9	LLEYN PEN,GWYNEDD		14	2	113	0.26	1.1	1.9	B	B*B	AFTERSHOCK
251188	003519.1	52.97	-4.40	238.5	343.8	21.9	0.6	LLEYN PEN,GWYNEDD		12	2	116	0.03	0.3	0.3	B	A*B	AFTERSHOCK
171288	110140.6	52.96	-4.42	237.4	343.2	21.6	0.8	LLEYN PEN,GWYNEDD		12	2	129	0.06	0.5	0.5	B	A*B	AFTERSHOCK
220288	064157.4	52.96	-4.41	238.1	343.6	21.4	0.7	LLEYN PEN,GWYNEDD		11	2	116	0.11	0.9	0.9	B	A*B	AFTERSHOCK
240288	180408.1	52.96	-4.39	239.6	343.4	23.5	0.7	LLEYN PEN,GWYNEDD		12	3	86	0.09	0.4	0.7	A	A*A	AFTERSHOCK
020488	014712.0	52.96	-4.39	239.4	343.1	24.3	0.7	LLEYN PEN,GWYNEDD		18	3	87	0.08	0.3	0.5	A	A*A	AFTERSHOCK
310888	071651.4	52.96	-4.39	239.2	343.3	20.0	0.8	LLEYN PEN,GWYNEDD		13	3	87	0.12	0.7	0.8	A	A*A	AFTERSHOCK
221088	130148.8	52.96	-4.39	239.7	343.5	23.4	0.6	LLEYN PEN,GWYNEDD		18	3	85	0.10	0.4	0.7	A	A*A	AFTERSHOCK
101188	170600.5	52.96	-4.39	239.6	343.1	24.2	0.7	LLEYN PEN,GWYNEDD		11	3	86	0.04	0.3	0.7	A	A*A	AFTERSHOCK
051288	013122.2	52.96	-4.38	240.0	342.8	21.8	0.7	LLEYN PEN,GWYNEDD		14	4	87	0.10	0.5	0.7	A	A*A	AFTERSHOCK
221288	084743.4	52.96	-4.38	239.9	343.4	23.1	0.8	LLEYN PEN,GWYNEDD		12	3	144	0.04	0.2	0.3	B	A*C	AFTERSHOCK
280388	174041.7	52.96	-4.37	240.9	342.8	20.9	1.0	LLEYN PEN,GWYNEDD		25	5	88	0.12	0.3	0.7	A	A*A	AFTERSHOCK
190888	064125.4	52.96	-4.37	240.5	342.9	24.9	2.1	LLEYN PEN,GWYNEDD	3+	19	4	87	0.08	0.3	0.8	A	A*A	AFTERSHOCK.FELT ANGLESEY, CAERNARVON
290988	175830.8	52.95	-4.39	239.4	342.1	19.5	1.1	LLEYN PEN,GWYNEDD		13	4	94	0.08	0.4	0.8	B	A*B	AFTERSHOCK
060688	235102.5	52.95	0.93	596.8	343.2	21.5	2.1	STIFFKEY,NORFOLK		15	16	188	0.08	0.5	0.6	C	A*D	
030888	144824.1	52.95	1.78	653.9	345.9	5.0	2.9	SOUTHERN NORTH SEA		14	389	337	0.65	222.7	240.7	D	D*D	
100488	204204.8	52.91	-3.72	284.4	336.3	11.3	0.6	LAKE BALA,GWYNEDD		12	10	171	0.08	0.4	0.6	B	A*C	
030888	173258.5	52.89	-5.69	152.1	339.1	10.0	0.9	IRISH SEA		8	42	205	0.28	5.8	5.1	D	D*D	
270288	054147.4	52.89	-3.50	298.8	333.6	11.1	0.2	LAKE BALA,GWYNEDD		10	12	142	0.05	0.3	0.4	B	A*C	
070188	070208.5	52.88	-5.48	166.1	336.9	6.8	1.4	SOUTHERN IRISH SEA		23	54	115	0.29	1.0	2.4	C	B*D	
070188	071143.5	52.87	-5.50	164.3	336.2	0.5	1.1	SOUTHERN IRISH SEA		17	52	146	0.25	1.0	3.3	C	B*D	
070888	172631.9	52.81	-5.65	153.9	329.5	6.8	1.4	IRISH SEA		30	40	118	0.40	0.9	1.9	C	C*C	

CATALOGUE OF EVENTS : 1988

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...
070888	120944.3	52.81	-5.63	155.5	329.5	4.5	1.6	IRISH SEA		30	67	118	0.43	0.9	1.8	D	C*D	
270388	210825.7	52.78	-5.65	153.7	326.1	9.2	1.5	IRISH SEA		20	39	121	0.24	0.8	1.2	C	B*C	
080888	023314.5	52.78	-5.65	153.9	326.2	5.7	0.7	IRISH SEA		17	39	132	0.21	0.7	1.9	C	B*C	
080888	024312.6	52.78	-5.65	153.9	326.9	6.1	1.4	IRISH SEA		21	39	120	0.18	0.5	1.2	C	B*C	
280388	113617.4	52.77	-5.64	154.2	325.6	7.4	1.7	IRISH SEA		26	39	122	0.21	0.7	1.7	C	B*C	
280388	114247.2	52.77	-5.50	163.7	325.1	3.6	1.1	IRISH SEA		9	48	138	0.29	1.5	5.4	C	C*C	
170988	194421.3	52.76	-3.55	295.8	318.7	12.6	0.3	LAKE VYRNWY,POWYS		9	6	287	0.05	0.5	0.3	C	A*D	
270788	024044.1	52.70	-5.64	154.4	317.3	10.0	0.8	IRISH SEA		6	39	192	0.24	19.3	6.0	D	D*D	
260188	165630.3	52.66	1.38	628.6	312.3	7.8	0.3	NE NORWICH,NORFOLK		7	20	157	0.10	0.8	25.5	C	C*C	
130988	004727.9	52.64	-2.31	379.4	304.4	7.5	0.8	ALBRIGHTON,LINCS		9	42	145	0.25	1.3	3.8	C	B*C	
270888	155926.1	52.56	-0.94	472.0	296.2	3.6	0.8	SHANGTON,LEICS		5	32	229	0.06	0.7	0.8	C	A*D	
080488	034855.7	52.52	-2.25	383.1	291.5	16.4	1.0	SEDGLEY,STAFFORDSHIRE		13	1	128	0.19	1.6	1.1	B	B*B	
090188	013132.4	52.50	-0.13	526.7	291.2	9.4	1.7	PETERBOROUGH,CAMBS		12	75	192	0.63	7.3	11.2	D	D*D	
170788	013207.7	52.49	-1.57	429.2	288.5	10.2	0.4	COVENTRY,W MIDLANDS		6	33	153	0.11	2.7	6.8	C	C*C	
251088	225215.3	52.48	-2.07	395.1	286.6	9.3	0.8	DUDLEY,WEST MIDLANDS		9	56	131	0.22	1.6	6.5	D	C*D	
030488	160744.7	52.41	-3.37	306.6	280.1	16.6	1.2	S NEWTOWN,POWYS		28	22	90	0.19	0.5	1.4	B	B*B	
311288	135337.1	52.38	-6.73	78.0	286.7	0.7	1.8	WEXFORD,EIRE		17	34	273	0.27	2.7	3.0	D	C*D	
080388	102254.3	52.32	-3.91	269.7	271.1	9.2	1.3	ABERYSTWYTH,DYFED		16	41	199	0.27	2.5	3.2	C	B*D	
150588	100709.3	52.26	-2.16	388.9	262.6	7.8	1.2	WORCESTER,HER & WORC		21	36	165	0.31	1.3	4.3	C	C*C	
041088	072343.1	52.19	-2.59	359.4	255.2	14.2	0.9	LEOMINSTER,HER & WORC		8	18	199	0.15	1.0	4.1	C	B*D	
280588	035141.3	52.15	-3.00	331.6	250.7	22.8	1.0	KINGTON,HER & WORC		21	17	101	0.09	0.6	0.8	B	A*B	
040888	191512.0	52.07	-3.07	326.8	241.4	2.5	0.0	HAY-ON-WYE,HER & WORC		5	9	179	0.06	0.4	0.6	C	A*D	
040888	104207.5	52.06	-3.07	326.9	241.0	5.3	0.5	HAY-ON-WYE,HER & WORC		4	9	177	0.06	0.0	0.0	C	A*D	
090688	133600.0	52.05	-4.08	257.1	241.6	2.7	1.3	LAMPETER,DYFED		19	34	144	0.33	0.8	2.0	C	C*C	
010888	035635.3	52.05	-3.08	325.7	239.5	6.9	0.1	HAY-ON-WYE,HER & WORC		5	8	167	0.03	11.1	7.0	D	D*D	
030888	141428.6	52.05	-3.08	326.0	240.0	5.1	0.1	HAY-ON-WYE,HER & WORC		5	8	170	0.09	2.3	3.8	C	B*D	
110888	153918.0	52.05	-3.05	328.1	239.2	9.2	0.7	HAY-ON-WYE,HER & WORC		13	6	124	0.31	2.1	2.1	C	C*B	
010888	202234.4	52.04	-3.10	324.9	238.7	6.8	-0.2	HAY-ON-WYE,HER & WORC		5	8	164	0.18	7.9	3.8	D	D*D	
310788	044103.8	52.04	-3.09	325.1	238.5	7.5	-0.1	HAY-ON-WYE,HER & WORC		5	8	164	0.25	2.2	1.0	C	B*D	
070888	121800.2	52.04	-3.09	325.4	238.1	7.2	1.0	HAY-ON-WYE,HER & WORC		7	7	140	0.06	0.6	0.4	B	A*C	
080888	192043.5	52.04	-3.09	325.4	238.9	7.0	0.5	HAY-ON-WYE,HER & WORC		4	8	163	0.06	0.0	0.0	C	A*D	
110888	153423.5	52.04	-3.09	325.6	238.1	7.7	1.4	HAY-ON-WYE,HER & WORC		15	7	135	0.10	0.5	0.7	B	A*B	
070888	014558.0	52.04	-3.08	326.1	239.1	6.7	0.6	HAY-ON-WYE,HER & WORC		6	8	143	0.07	1.5	0.9	C	B*C	
010888	211006.5	52.03	-3.09	325.0	237.3	7.9	0.2	HAY-ON-WYE,HER & WORC		5	7	177	0.07	2.8	1.6	D	C*D	
070888	232350.5	52.03	-3.09	325.1	237.3	7.6	0.6	HAY-ON-WYE,HER & WORC		5	7	154	0.06	1.8	1.5	C	B*D	
300788	192126.7	52.02	-3.10	324.4	236.7	6.7	0.5	HAY-ON-WYE,HER & WORC		7	8	144	0.14	1.5	0.9	C	B*C	
070888	223247.6	52.02	-3.10	324.8	236.1	8.6	0.6	HAY-ON-WYE,HER & WORC		5	7	147	0.06	1.9	1.2	C	B*D	
100888	021941.6	52.01	-3.10	324.2	234.9	8.4	0.7	HAY-ON-WYE,HER & WORC		5	7	152	0.07	1.9	1.8	C	B*D	
040988	032241.4	52.00	-3.11	323.5	234.1	10.2	0.0	HAY-ON-WYE,HER & WORC		4	8	218	0.02	0.0	0.0	C	A*D	
141088	133935.8	51.98	-3.70	283.1	233.1	1.0	1.2	HALFWAY FOREST,POWYS		15	32	214	0.20	1.1	2.6	C	B*D	
260288	065419.8	51.91	-3.16	320.2	224.4	19.4	0.6	BRECON,POWYS		7	15	182	0.11	1.7	2.0	C	B*D	
051088	153322.3	51.86	-2.46	368.4	218.4	15.8	1.6	FOREST OF DEAN,GLOUC		5	20	241	0.05	1.0	3.5	C	B*D	
300988	075400.3	51.84	-3.27	312.4	216.5	0.1	0.7	NW MERTHYR TYD,POWYS		15	26	195	0.11	0.6	1.0	C	A*D	
171088	122532.4	51.83	-3.32	309.1	215.4	0.4	0.7	MERTHYR TYDFIL,POWYS		6	28	216	0.14	0.6	0.9	C	A*D	
030488	173443.6	51.83	-2.68	353.3	215.0	6.1	0.5	MONMOUTH,GWENT		6	23	181	0.19	0.2	2.1	C	B*D	
080388	193802.2	51.81	-1.51	434.0	212.5	6.7	1.5	WITNEY,OXFORDSHIRE		7	104	274	0.13	4.4	6.1	D	C*D	
130588	111845.4	51.78	-3.63	287.8	209.9	14.7	1.5	ABERCRAF,POWYS		8	37	205	0.10	1.4	3.7	C	B*D	
240988	213623.6	51.78	-2.83	343.0	209.7	16.1	1.2	MONMOUTH,GLOUCS		9	16	142	0.16	1.1	1.5	C	B*C	
131088	110022.4	51.75	-3.32	309.1	206.7	0.4	0.5	MERTHYR TYDFIL,POWYS		4	35	255	0.09	0.0	0.0	C	A*D	
060788	050916.9	51.72	-5.02	191.1	206.6	7.8	2.3	MILFORD HAVEN,DYFED		20	60	217	0.24	1.5	2.5	C	B*D	

CATALOGUE OF EVENTS : 1988

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...
020688	214636.3	51.71	-3.38	304.7	202.0	1.6	1.3	ABERDARE,MID GLAMORGAN		11	40	123	0.07	0.3	0.5	B	A*C	
020688	214528.0	51.71	-3.37	305.5	202.1	7.3	0.4	ABERDARE,MID GLAMORGAN		6	40	173	0.07	0.3	1.4	B	A*C	
250788	121822.4	51.71	-3.16	320.2	201.4	14.4	1.0	ABERTILLERY,GWENT		5	25	242	0.03	1.0	2.6	C	B*D	
070188	040606.2	51.70	-3.98	263.2	201.9	19.7	0.7	PONTARDAWE,W GLAMORGAN		4	65	314	0.03	0.0	0.0	C	A*D	
200988	161656.2	51.68	-3.30	310.1	199.1	0.6	1.1	SE MERTHYR TYD,POWYS	3+	10	35	226	0.14	0.9	0.8	C	A*D	FELT MERTHYR VALLEY AND EDWARDSVILLE
131088	121750.1	51.68	-3.26	312.8	199.2	0.5	1.0	MERTHYR VALE,MID GLAM		7	32	240	0.11	1.4	1.2	C	B*D	
250188	012722.1	51.65	-3.54	293.2	195.4	1.5	1.0	W RHONDDA,MID GLAM		19	51	239	0.16	1.2	1.1	C	B*D	
170188	051004.8	51.46	1.74	660.0	180.5	5.3	2.0	MARGATE,KENT		17	69	234	0.20	4.6	5.0	D	C*D	OFFSHORE LOCATION
231088	030155.1	51.24	-3.17	318.2	150.2	17.1	2.8	BRIDGEWATER,SOMERSET		27	9	91	0.20	0.5	0.5	B	B*B	
190188	140531.2	51.09	-2.93	334.9	133.0	9.6	1.5	SE BRIDGWATER,SOMERSET		17	14	127	0.08	0.4	1.3	B	A*B	
061288	104433.2	50.53	-5.68	139.1	76.2	1.1	1.3	NW ST IVES,CORNWALL		7	50	324	0.03	0.6	41.8	D	C*D	
110588	192508.5	50.49	-5.66	140.1	72.3	3.7	0.9	NW ST IVES,CORNWALL		8	38	322	0.04	1.5	15.2	D	C*D	OFFSHORE
290888	181631.3	50.35	-5.25	168.9	55.1	6.3	-0.1	PERRANPORTH,CORNWALL		6	18	342	0.00	0.2	0.5	C	A*D	
231088	005131.4	50.32	-4.92	192.4	51.2	2.6	-0.4	ST STEPHEN,CORNWALL		7	4	190	0.07	0.7	21.2	D	C*D	
310388	192719.5	50.26	-4.96	188.9	44.5	15.0	-0.8	EAST TRURO,CORNWALL		3	21	343	0.00	0.0	0.0	C	A*D	
310388	192725.3	50.26	-4.96	189.1	44.6	15.2	-0.1	EAST TRURO,CORNWALL		6	16	335	0.00	0.2	0.1	C	A*D	
190688	133218.9	50.22	-5.27	166.9	41.0	1.6	-0.2	CAMBORNE,CORNWALL		6	5	320	0.00	0.0	0.1	C	A*D	POSSIBLE MINING EVENT
070188	121041.2	50.17	-5.18	173.1	35.0	3.3	1.7	STITHIANS,CORNWALL		8	1	98	0.01	0.1	0.0	B	A*B	HYDROFRAC EVENT
110188	001958.1	50.17	-5.18	173.2	35.0	3.0	1.1	STITHIANS,CORNWALL		7	1	101	0.01	0.1	0.1	B	A*B	HYDROFRAC EVENT
060288	223812.4	50.13	-5.27	166.0	30.4	6.3	0.1	WENDRON,CORNWALL		9	6	307	0.02	0.5	0.5	C	A*D	
060288	191904.2	50.12	-5.27	166.4	30.0	6.6	0.1	WENDRON,CORNWALL		8	5	307	0.03	0.8	0.8	C	A*D	
090688	234041.0	50.12	-5.17	173.4	28.8	6.7	-0.3	S CONSTANTINE,CORNWALL		5	6	338	0.00	0.2	0.2	C	A*D	
130988	143116.5	50.11	-5.18	173.0	27.8	5.6	0.0	CONSTANTINE,CORNWALL		5	4	331	0.01	0.4	0.2	C	A*D	
241188	153352.4	50.11	-5.18	173.0	28.0	5.6	0.1	S CONSTANTINE,CORNWALL		7	3	161	0.02	0.3	0.4	B	A*C	
241188	154124.7	50.11	-5.18	172.6	28.1	6.1	0.2	S CONSTANTINE,CORNWALL		6	3	169	0.03	0.5	1.2	B	A*C	
241188	171719.0	50.11	-5.18	172.9	28.2	6.3	-0.1	S CONSTANTINE,CORNWALL		6	3	162	0.02	0.5	1.2	B	A*C	
241188	192557.2	50.11	-5.18	172.8	28.1	5.6	0.1	S CONSTANTINE,CORNWALL		8	3	166	0.03	0.3	0.7	B	A*C	
241188	173914.6	50.11	-5.17	173.5	28.5	7.3	-0.4	S CONSTANTINE,CORNWALL		4	3	278	0.00	0.0	0.0	C	A*D	
151188	114417.4	50.01	-5.85	124.0	19.9	6.2	1.4	SW LANDS END,CORNWALL		8	25	337	0.06	5.4	13.8	D	D*D	
200588	192405.0	50.00	-4.88	193.7	15.6	9.8	0.0	DODMAN POINT,CORNWALL		5	21	331	0.23	12.6	24.9	D	D*D	25KM SOUTH OF DODMAN PT
130688	021424.6	49.41	-7.71	-13.9	-38.7	5.0	2.7	SW SCILLY ISLES		6	200	359	0.04	41.5	19.1	D	D*D	
080788	073126.8	49.41	-3.64	281.3	-52.6	8.0	2.0	ENGLISH CHANNEL		11	106	200	0.35	5.4	14.4	D	D*D	

CATALOGUE OF EVENTS : 1988

Poorly located events

Date	HrMnSecs	Lat	Lon	KmE	KmN	Dep	Mag	Locality	Int	No	DM	Gap	RMS	ERH	ERZ	Q	SQD	Comments...
030188	0310							TAYSIDE-SONIC?										BANG AND FLASH,NO SEISMIC DATA
180188	1540							CUMBRIA-SONIC?										FELT BARROW-IN-FURNESS & FLEETWOOD
030288	1202							CAERNARVON-SONIC										FELT CAERNARVON
200288	0236						-0.5	ROSEWELL,LOTHIAN										COALFIELD TYPE
020488	0438						-0.7	ROSEWELL,LOTHIAN										COALFIELD TYPE
060688	211621.3			615.6	308.6			NORWICH-SONIC		5	4	129	0.14	0.1	0.2	C	A*D	LOUD BANG FELT NORWICH
080688	0531	55.85	-3.13				-0.6	ROSEWELL,LOTHIAN										COALFIELD TYPE
140688	0937						0.4	PENRHYNDEUDRAETH,WALES										FELT EXPLOSION,TWO MEN KILLED
150688	1314	53.51	-1.23	451.0	402.0		2.1	DONCASTER,YORKSHIRE										FELT DONCASTER,STRONG SURFACE WAVES
190788	195742.4	51.34	-3.47	297.7	161.3	6.5	1.6	BRISTOL CHANNEL		10	57	187	0.33	4.2	10.3	D	C*D	POSSIBLE EXPLOSION
310788	003809.6	58.10	-3.46	314.1	913.2	3.6	1.5	MORAY FIRTH		4	24	205	0.11	0.0	0.0	C	A*D	POSSIBLE EXPLOSION
260888	1251							WALES-SONIC										FELT COLWYN BAY,ABERGELE, PRESTATON,THE WIRRAL
090988	1536							NORTH WALES-SONIC										FELT ANGLESEY,CARNAERVON AND ABERYSTWYTH
190988	1621							HUMBERSIDE-SONIC										FELT HUMBERSIDE
221188	1855							NORWICH-SONIC										FELT NORWICH
081288	1302							NORFOLK-SONIC										FELT NORFOLK
131288	1240							DURHAM-SONIC										FELT DURHAM,NEWCASTLE
151288	1328			471.0	376.0		2.0	GAMSTON,NOTTS										COALFIELD TYPE,FELT GAMSTON
211288	190336.9	55.12	-3.34	314.4	581.1	0.0	1.3	LOCKERBIE AIR CRASH		7	15	263	0.05	1.6	2.7	C	B*D	DEPTH FIXED @ 0.0KM

Table 4 : Geographical coordinates of seismograph stations operated by BGS, DIAS and Leeds University during 1988.

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-	1	BGS
APA	PACKWAY	52.2999	1.4779	637.1	272.6	35	84-	1	BGS
AWH	WHINBURGH	52.6299	0.9512	599.70	307.70	60	80-	1R	BGS
AWI	WITTON	52.8324	1.4460	632.1	331.7	35	83-	1	BGS
BBR	BROCKHURST *	52.6071	-1.7785	415.0	301.0	125	84-88	1	BGS
BFR	FRANKLEY *	52.4230	-2.0074	399.5	280.6	210	84-88	1	BGS
BSE	SEISDON *	52.5316	-2.2374	383.9	292.7	100	84-88	1	BGS
BUR	BURN *	53.7424	-1.0668	461.54	427.76	13	85-	1R	BGS
BZO	ZOO (DUDLEY) *	52.5138	-2.0811	394.5	290.7	155	84-88	1	BGS
CBW	BUDOCK WATER	50.1482	-5.1144	177.525	32.29	98	81-	1	BGS
CCA	CARNMENELLIS	50.1864	-5.2277	169.62	36.87	213	81-	1	BGS
CCO	CONSTANTINE	50.1357	-5.1960	171.64	31.145	183	81-	1	BGS
CGH	GOONHILLY	50.0508	-5.1649	173.465	21.610	91	81-	1	BGS
CME	MENERDUE FARM	50.1760	-5.1903	172.238	35.608	178	82-	3	BGS
CPZ	PENZANCE	50.1560	-5.5835	144.065	34.655	198	81-	1	BGS
CR2	ROSEMANOWES 2	50.1669	-5.1687	173.7	34.5	152	81-	3	BGS
CRA	RAME	50.1648	-5.1921	172.060	34.363	198	82-	3	BGS
CRQ	ROSEMANOWES	50.1672	-5.1728	173.445	34.570	165	81-	4R	BGS
CSA	ST AUSTELL	50.3528	-4.8936	194.18	54.39	113	81-	1	BGS
CST	STITHIANS	50.1952	-5.1635	174.24	37.66	139	81-	1	BGS
CTR	TROLVIS QUARRY	50.1665	-5.1624	174.183	34.468	191	82-	3	BGS
CWF	CHARNWOOD FST	52.7382	-1.3071	446.78	315.88	152	75-	3R	BGS
DCO	COMBE FARM	50.3200	-3.8724	266.72	48.42	410	82-	1	BGS
DYA	YADSWORTHY	50.4352	-3.9309	262.89	61.33	280	82-	3	BGS
EAB	ABERFOYLE	56.1881	-4.3400	254.80	701.95	250	69-	1R	BGS
EAU	AUCHINOON	55.8444	-3.4547	308.92	662.20	350	69-	1R	BGS
EBH	BLACK HILL	56.2481	-3.5081	306.56	707.19	375	69-	1R	BGS
EBL	BROAD LAW	55.7733	-3.0436	334.54	653.82	365	69-	1R	BGS
ECK	CAULDKAINE HILL	55.1812	-3.1271	328.237	588.022	337	81-	1R	BGS
EDI	EDINBURGH	55.9233	-3.1861	325.89	670.66	125	69-	3R	BGS
EDU	DUNDEE	56.5475	-3.0142	337.65	739.95	275	69-	1R	BGS
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
FOO	FLORO (NORWAY)	61.5983	5.0439			50	85-	3R	BGS
FRO	FROYA (NORWAY)	61.7572	4.8819			50	84-	1R	BGS
HAE	ALDERS END	52.0376	-2.5475	362.45	237.88	224	82-	1	BGS
HCG	CRAIG GOCH	52.3224	-3.6567	287.1	270.7	511	80-	1R	BGS
HGH	GRAY HILL	51.6380	-2.8064	344.2	193.6	210	80-	1	BGS
HLM	LONG MYND	52.5169	-2.8878	339.8	291.4	259	84-	1	BGS
HPK	HAVERAH PARK	53.9554	-1.6240	424.67	451.12	227	78-	3R	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

Table 4 : continued

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Yrs open	Comp	Agency
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
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
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
KWH	WHATBOROUGH *	52.6450	-0.8648	476.8	305.9	220	88-88	1	BGS
LDU	LEEDS UNIV	53.8025	-1.5553	429.350	434.450	230	83-	m	BGS
LEU	LEICS UNIV	52.6238	-1.1223	459.41	303.30	76	81-	1	BGS
LRW	LERWICK	60.1360	-1.1779	445.66	1139.27	100	78-	4R	BGS
MCD	COLEBURN DISTIL	57.5827	-3.2541	325.02	855.41	280	81-	4Rm	BGS
MCH	MICHAELCHURCH	51.9977	-2.9983	331.47	233.77	229	78-	4	BGS
MDO	DOCHFOUR	57.441	-4.363	258.17	841.43	366	81-	1	BGS
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
PAPA	BIDSTON	53.400	-3.072	328.732	389.806	50	88-	3	BGS
PAPB	HIGH MOOR	53.598	-2.748	350.503	411.556	50	88-	3	BGS
PAPC	OAKENCLOUGH	53.920	-2.717	352.916	447.356	50	88-	3	BGS
PAPD	HIGH SALTER	54.057	-2.589	361.448	462.519	50	88-	1	BGS
PAPE	KIRKBY LONS	54.222	-2.528	365.578	480.844	50	88-	3	BGS
PAPF	KIRKBY STEPHEN	54.458	-2.390	374.719	507.042	50	88-	1	BGS
PAPG	BROUGH	54.537	-2.315	379.620	515.808	50	88-	3	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
RCA	ROSSYLN CASTLE	55.8531	-3.1581	327.506	662.812	122	87-	3	BGS
RCH	ROSSYLN CHAPEL	55.8554	-3.1581	327.511	663.069	150	87-	3	BGS
RGH	GORTON HOUSE	55.8562	-3.1496	328.046	663.151	129	87-	1	BGS
RHC	HAWTHORNDEN	55.8599	-3.1429	328.473	663.551	125	87-	1	BGS
RMM	MOUNTMARLE	55.8685	-3.1488	328.120	664.520	138	87-	1	BGS
ROB	ROSSLYN CHAP(B)	55.8552	-3.1588	327.467	663.054	153	87-	1	BGS
RRD	ROSEDALE	55.8441	-3.1390	328.688	661.798	157	87-	1	BGS
SAN	SANDWICK	60.0176	-1.2386	442.44	1126.05	155	85-	1	BGS
SBD	BRYN DU	52.9055	-3.2588	315.35	335.01	497	80-	1	BGS
SFJ	STATFJORD	61.2550	1.8167			-150	85-	3	BGS
WAL	WALLS	60.2576	-1.6133	421.40	1152.60	170	80-	1	BGS
WBR	BRONABER	52.8560	-3.8941	272.480	330.434	340	85-	1	BGS
WCB	CHURCH BAY	53.3782	-4.5465	230.630	389.864	135	85-	3	BGS
WFB	FAIRBOURNE	52.6830	-4.0378	262.266	311.465	325	85-	1	BGS
WFF	FFESTINIOG *	52.9788	-3.9877	266.559	344.262	500	86-	L	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

Table 4 : continued

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Yrs open	Comp	Agency
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	386.22	551.91	462	83-	1R	BGS
XDE	DENT	54.5058	-3.4897	303.55	513.31	291	83-	1R	BGS
XSO	SOURHOPE	55.4925	-2.2511	384.14	622.11	495	83-	1R	BGS
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
HOY	HIGH HOYLAND *	53.5867	-1.5973	426.65	410.11	205	83-	1R	LDS
OXE	OXENHOPE MOOR *	53.7908	-1.9798	401.33	432.74	438	83-	1R	LDS

* BBR,BFR,BSE & BZO withdrawn 2 August 1988
* BUR,HOY & OXE renamed BUWY,HHWY & OXWY respectively from September 1988
* KWH withdrawn June 1988
* WFF received low-frequency microphone on 8 July 1988

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 sheet, of measurements taken from a seismogram generated using a magnetic tape for recording. This system is described by Browitt (1979) . ~~The conversion of these raw measurements to true ground motion is described overleaf.~~

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
12345678901234567890123456789012345678901234567890123456789012345678901234567890
DyMoYrNetwork....Tape..SLoc...EventSec.. Ccor DekReader.TLocality.............1
      HrMnSe:c. Grid:e./Grid:n. Dep:h M:l B:* M:b M:s Io. Lat:...N Lon:...E   2
No.DM. GapRm:s.Erh:.Erz:. Q SQD Comments.....................................3
CodeCoHrMnSec1..Amp1.CP1QIUSec2..Amp2.CP2QIUAmp.CPer.MtAmp.CPer.MtJetpAmodPDist
12345678901234567890123456789012345678901234567890123456789012345678901234567890
```

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 playout 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./ Grid:n	:Kilometres east and north of the National grid origin.
Dep:h	:Depth of event in kilometres. (valid for A and possibly B quality events).
M:l	:Richter local magnitude obtained from the method described in the Manual of Seismological Observatory Practice (MSOP).
B:*	:MB* ,An approximation to MB as determined using stations at closer ranges (paragraph 3.3.2 in MSOP).
M:b	:Body wave magnitude determined using the method described in MSOP.
M:s	:Surface wave magnitude determined using the method descibed 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 : HYPO71 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 HYPO71 does not require them.
Amp1 :Trace amplitude (mm) of first motion of this arrival, for 3-component set.
C :Amp1 is H: half peak-peak, C: centre-peak, F or blank: peak-peak
A: log(ground amplitude in millimicrons)
P1 :Phase, normally P (= PN or PG) but any MSOB code possible.
Q :HYPO weighting factor to arrival. 0 or blank= full weighting to 4= zero weighting (ignore). 9= use P-S interval only for this line.
I :I=Impulsive (onset read better than 0.1s) or E=emergent (worse than 0.1s)
U :U=First motion up/compression or D=down/dilation.
Sec2..Amp2.CP2QIU: As for first arrival, but usually referring to S phase(SN,SG)
Amp :Trace amplitude in millimetres at the relevant part of the phase train for the magnitude type indicated in Mt.
ML: largest amplitude in trace, MB*: Maximum in P-phase.
MB: Maximum in first 25 seconds,MS: Rayleigh phase (Z,long period)
M : Equivalent to ML, but not used in the magnitude calculation.
C :As previous
Per :Period (secs) of Amp.
Mt :Magnitude type... ML ,B*, MB, MS.
Amp.CPer.Mt: As previous
Jetp :Jet pen sensitivity in volts/cm used on playout eg 0.25,1.0,2.5,10.0
Amod :Amplifier-modulator gain. Normally 100, 200, 400. Low-gain devices usually have a gain of 4.
P :If there is a polarity reversal in the system, this column=1.
Dist :Distance in kilometres to event from station.

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020188MORAY,KYLE                                    5.0SIMPSONLULLAPOOL,HIGHLAND     1
        83028.33  217.42/ 896.45   7.5 1.4                  57.920   -5.083     2
 12 49 219 0.77  5.2 12.7 D D*D                                                    3
MCD Z 0830 47.30       P 1ED 61.71       S 3E                                   115
MCD NS0830                                    03.0H0.10ML           01.0 200   115
MCD EW0830                                    04.2H0.10ML           01.0 200   115
MDO Z 0830 39.80       P 1ED 48.40       S 3E                                    69
ELO Z 083058.5         P 2E 80.3         S 3E                                   182
MLA Z 0830 45.90       P 1EU 59.10       S 3E                                   110
KPL Z 0830 42.19       P 2ED 48.31       S 3ED                                   73
KPL NS0830                                    08.0H0.06ML           0.25 200    73
KPL EW0830                                    08.0H0.19ML           0.25 200    73
KSB Z 0830 42.80       P 2E  50.80       S 3ED                                   82
KAC Z 0830 36.00       P 2ED 41.60       S 3E                                    49
EDU Z 083101.0         P 3E                                                     198
EAB Z 083101.2         P 3E 24.6         S 3E                                   198
EBH Z 083103.2         P 3E 28.2         S 3E                                   209
     -1
040188N WALES                                       5.0RITCHIELB FFESTINIOG,GWYNEDD  1
        05117.00  266.42/ 347.32  13.2-0.5                 53.006   -3.991     2
  9  3 134 0.08  0.5  0.8 B A*B                                                    3
WLC Z 005120.0         P 4  22.52        S 1                                     14
WLC NS0051                                    11.8H0.05ML           0.25 200    14
WLC EW0051                                    5.5 H0.05ML           0.25 200    14
WBR Z 005120.72        P 2E 23.11        S 2                                     18
WST Z 005119.4         P 2IU20.9         S 2                                      4
WFB Z 005123.23        P 3E                                                     36
YRE Z 005122.52        P 3E                                                     29
YLL Z 005120.88        P 1ID23.5         S 1                                     19
     -1
060188 LOWNET    LN 573    124      12.5       5.0DWR    LCLACKMANNAN,CENTRAL    1
       1659 2.99  295.29/ 691.72   0.5 1.2                 56.107   -3.684     2
  8 19 204 0.28  2.6  2.7 D C*D COALFIELD TYPE                                    3
EBH Z 165907.10        P 1E 10.38        S 2EU                  0.25 200    19
EAU Z 165909.49        P 1E 14.90        S 3E                                    33
EDI Z 165910.00        P 1EU15.10        S 2E  4.0H0.4 M        0.25 200    37
EDI NS1659                                    6.1H0.48ML            0.25 200    37
EDI EW1659                                    7.7H0.60ML            0.25 200    37
ELO Z 165910.17        P 2E 16.52        S 3E                                    41
     -1
070188HEREFORD   HF448                              5.0IMI    LPONTARDAWE,W GLAMORGAN1
        4 6 6.20  263.17/ 201.93  19.7 0.7                 51.699   -3.980     2
  4 65 314 0.03  0.0  0.0 C A*D                                                   3
HTR Z 040617.08        P 1E                                                     65
MCH Z 040618.71        P 1E 27.72        S 1                                     75
MCH NS0406                                    5.0H0.08ML            0.25 200    75
MCH EW0406                                    3.0H0.08ML            0.25 200    75
HGH Z 040619.46        P 3E                                                     81
     -1
070188 LOWNET    LN 573          12.5       5.0DWR    LLOCH ETIVE,STRATHCLYDE1
       55016.50  210.15/ 739.26   2.7 1.0                 56.507   -5.085     2
 13 58 284 0.27  4.2  8.0 D C*D                                                  3
EAB Z 055027.40        P 2E 33.9         S 2E                   0.25 200    58
ELO Z 055030.79        P 2E 41.0         S 2E                                    85
EDU Z 055037.6         P 2E 52.7         S 3E                                   128
EDI Z 055038.9         P 4E 55.32        S 2E  2.6H0.15M        0.25 200   135
EDI NS0550                                    2.7H0.19ML            0.25 200   135
EDI EW0550                                    2.7H0.12ML            0.25 200   135
PMS Z 055029.39        P 1ID38.92        S 2E                                    77
PGB Z 055030.91        P 1E 41.55        S 2E                                    86
PGB NS0550                                    3.5H0.12ML            0.25 200    86
PGB EW0550                                    3.0H0.17ML            0.25 200    86
PCO Z 055030.82        P 3E 41.32        S 2E                                    84
     -1
070188N WALES                                       5.0RITCHIELSOUTHERN IRISH SEA    1
        7 2 8.50  166.15/ 336.85   6.8 1.4                 52.878   -5.476     2
 23 54 115 0.29  1.0  2.4 C B*D                                                  3
YRE Z 070220.77        P 2E 29.28        S 3                                     72
YRC Z 070220.89        P 2ED29.30        S 2                                     73
WCB Z 070222.35        P 2E 31.72        S 2                                     84
WCB NS0702                                    8.5 H0.07ML           0.25 200    84
WCB EW0702                                    7.5 H0.08ML           0.25 200    84
WLF Z 070222.72        P 2E 31.93        S 3                                     86
YLL Z 070223.39        P 3E                                                     92
YRH Z 070218.40        P 2ED24.98        S 2                                     57
WFB Z 070225.35        P 2E 35.78        S 3                                     99
WST Z 070225.59        P 2E                                                    101
WBR Z 070226.31        P 2E                                                    107
WLC Z 070227.87        P 2E 40.16        S 2                                    115
WLC NS0702                                    18.5H0.16ML           0.25 200   115
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WLC EW0702                                    18.0H0.11ML          0.25 200  115
WVR Z 070229.65       P 3E                                                   127
DLE Z 070222.85       P 1ID32.43       S 3                                    85
ECP Z 070224.42       P 2ID36.6        S 3                                    99
ETA Z 070217.28       P 2I                                                   54
     -1
070188N WALES                                  5.0RITCHIELSOUTHERN IRISH SEA    1
       71143.58  164.27/ 336.16   0.5 1.1                 52.871   -5.503    2
 17 52 146 0.25  1.0  3.3 C B*D                                               3
YRE Z 071155.57       P 2E 64.85       S 3                                    74
YRC Z 071155.89       P 2E 64.92       S 3                                    75
WLF Z 071157.84       P 2E                                                   88
WCB Z 071157.52       P 3E 66.90       S 3                                    85
YRH Z 071154.16       P 2E 60.53       S 2                                    59
WFB Z 071161.08       P 3E 72.02       S 3                                   101
WBR Z 071161.61       P 3E                                                  108
WST Z 071161.26       P 3E                                                  103
WLC Z 071163.34       P 2E 75.21       S 4                                   117
WLC NS0711                                  4.5 H0.09ML          0.25 200  117
WLC EW0711                                  4.0 H0.10ML          0.25 200  117
DLE Z 071157.81       P 1IU67.49       S 3                                    84
ETA Z 071152.28       P 2IU
     -1
070188 CORNWALL                                5.0        STITHIANS,CORNWALL    1
       121041.26  173.11/  34.99   3.3 1.7                 50.171   -5.178    2
  8  1  98 0.01  0.1  0.0 B A*B HYDROFRAC EVENT                               3
CR2 Z 121041.86       P 0ID                                                   1
CRQ Z 121041.85       P 0ID42.31       S 1  8.5 H0.03ML          2.5    4    1
CRA Z 121041.87       P 0ID                                                   1
CST Z 121042.03       P 0IU                                                   3
CCA Z 121042.17       P 0ID                                                   4
CCO Z 121042.19       P 0ID                                                   4
CBW Z 121042.34       P 0ID                                                   5
DYA NS1210                                  4.5 H0.17ML          1.0   200   94
DYA EW1210                                  4.1 H0.13ML          1.0   200   94
DYA Z 121060.00       P 4                                                    94
CGH Z 121043.76       P 4                                                    13
CSA Z 121046.20       P 4                                                    29
HTL NS1210                                  3.0 H0.08ML          1.0   200  104
HTL EW1210                                  3.7 H0.15ML          1.0   200  104
HTL Z 121060.00       P 4                                                   104
     -1
080188MORAY                                    5.0BS      LKEITH,GRAMPIAN       1
       121417.14  340.14/ 844.87   2.6 0.5                 57.490   -2.999    2
  4 18 230 0.08  0.0  0.0 C A*D                                               3
MCD Z 121420.80       P 1E 23.02       S 3E                                   19
MCD NS1214                                  08.5H0.11ML          01.0 200   19
MCD EW1214                                  07.5H0.09ML          01.0 200   19
MME Z 121420.90       P 1EU23.60       S 3E                                   20
MVH Z 1214                42.40        S 3E                                   85
     -1
090188L/L/EA/BIRM                              5.0ADS     LPETERBOROUGH,CAMBS   1
       13132.49  526.71  291.25   9.4 1.7                 52.504   -0.133    2
 12 75 192 0.63  7.3 11.2 D D*D                                               3
BBR Z 013152.52       P 3E 64.08       S 3                                   112
BSE Z 013157.41       P 3E 71.77       S 3                                   143
AWH Z 013145.13       P 1E 52.78       S 1  6.90H0.08ML          1.00 200   75
ABA Z 013148.81       P 0ID59.99       S 1  8.80H0.06ML          1.00 200   97
AWI Z 013151.70       P 2E                 9.50H0.13ML          1.00 200  113
CWF Z 013146.34       P 1E 55.98       S 1                                    84
CWF NS0131                                 11.3H0.08ML          1.00 200   84
CWF EW0131                                  9.1H0.04ML          1.00 200   84
HPK Z 013163.88       P 2  81.87       S 1
HPK NS0131                                 12.6H0.13ML          0.25 200
HPK EW0131                                 9.50H0.16ML          0.25 200
     -1
110188CORNWALL                                 5.0ADS     STITHIANS,CORNWALL    1
       01958.13  173.22   35.00   3.0 1.1                 50.171   -5.175    2
  7  1 101 0.01  0.1  0.1 B A*B HYDROFRAC EVENT                               3
CR2 Z 001958.67       P 0  59.06       S 1                                    1
CCO Z 001959.02       P                                                      4
CCA Z 001959.00       P                                                      4
CST Z 001958.86       P                                                      3
CBW Z 001959.15       P                                                      5
CRA Z 001958.70       P 0ID                                                  1
CRQ SM0019                                  4.1 H0.03ML          1.0    4
CGH Z 001960.5        P 4                                                   13
CSA Z 001963.2        P 4                                                   29
     -1
120188N WALES                                  5.0        LCAERNARVON,GWYNEDD   1
       9 258.03  242.39/ 360.72  13.4 1.0                 53.120   -4.355    2
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 25 13 105 0.14  0.3  0.7 B A*B                                                3
WCB Z 090263.7        P 2E 67.58       S 3                                    31
WCB NS0902                                  3.6 H0.07ML          1.0  200    31
WCB EW0902                                  2.6 H0.05ML          1.0  200    31
YRC Z 090262.23       P 1ID65.2        S 1                                    21
YRE Z 090261.6        P 1IU63.8        S 1                                    16
WPM Z 090264.02       P 2E 68.4        S 2                                    34
WLF Z 090261.8        P 1ID64.51       S 2                                    19
WME Z 090263.5        P 2E                                                    31
YLL Z 090260.97       P 3E 63.3        S 3                                    13
WLC Z 090305.33       P 3E 10.3        S 2                                    41
WLC NS0903                                  8.6 H0.15ML          2.5  200    41
WLC EW0903                                  4.7 H0.11ML          2.5  200    41
YRH Z 09034.46        P 1IU9.13        S 1                                    37
WVR Z 09038.0         P 3E 14.91       S 3                                    62
WBR Z 09035.39        P 1ID10.5        S 2                                    43
WST Z 09033.52        P 1IU7.39        S 2                                    29
WFB Z 09036.75        P 3E 13.53       S 3                                    53
     -1
130188NORTH SEA                                 5.0BS     RNORTH SEA           1
       152153.02                  1.0 2.4                  59.722    1.637     2
 14164 176 0.57  4.4  2.9 D D*D                                                3
FOO Z 152234.10       P 1ED61.80       S 3E                                  280
FOO NS1522                                  02.7H0.07ML          01.0 200   280
FOO EW1522                                  03.0H0.20ML          01.0 200   280
FRO Z 152234.80       P 1E 63.90       S 3E                                  288
LRW Z 152218.10       P 1ED35.10       S 4E                                  164
SAN Z 152219.60       P 1E 38.10       S 2E                                  164
WAL Z 152223.40       P 1E 43.10       S 3E                                  191
YEL Z 152222.50       P 1E 44.40       S 4E                                  177
HYA Z 152236.10       P 1E 66.80       S 3E                                  298
KMY Z 152226.00       P 1E 48.10       S 3E                                  212
     -1
140188MORAY                                     5.0BS     LL MULLARDOCH,HIGHLAND 1
       12 137.28  217.77/ 832.60   1.9 1.7                 57.348   -5.029    2
 16 41 236 0.35  2.8  2.1 D C*D                                                3
MDO Z 120144.40       P 2EU49.70       S 3E                                   41
MVH Z 120151.80       P 2E 60.60       S 3E                                   82
MCD Z 120155.80       P 1ED68.90       S 2ED                                 110
MCD NS1201                                  03.2H0.21ML          1.0 200    110
MCD EW1201                                  02.7H0.14ML          1.0 200    110
MME Z 120158.00       P 2E 73.31       S 3ED                                 125
ELO Z 120158.01       P 1E 73.41       S 2E                                  126
EAB Z 120159.22       P 2E 75.72       S 2E                                  136
EDU Z 120202.00       P 2E 20.33       S 3E                                  152
EBH Z 120202.48       P 2E 20.99       S 3E                                  154
     -1
160188KYLE                                      5.0BS     LLOCHCARRON,HIGHLAND   1
       93321.43  201.86/ 841.22  14.1-0.7                 57.418   -5.300    2
  6  9 197 0.57  9.7 12.6 D D*D                                               3
KAC Z 093324.60       P 2ED26.20       S 3ED                                   9
KSB Z 093326.70       P 2E 29.59       S 3ED                                  24
KPL Z 093324.80       P 1ED30.10       S 2E                                   23
KPL NS0933                                  02.0H0.09ML          0.25 200    23
KPL EW0933                                  01.5H0.08ML          0.25 200    23
     -1
170188 LOWNET    LN 574   1247      12.5      5.0DWR    LROSEWELL,LOTHIAN      1
       23322.94  329.35/ 662.55   4.6 0.2                 55.851   -3.129    2
  6  9 172 0.03  0.4  1.3 B A*C COALFIELD TYPE                                  3
EDI Z 023324.91       P 1EU26.46       S 2E 13.2H0.31M      0.25 200     9
EDI NS0233               IU              E  5.0H0.6 ML     0.25 200     9
EDI EW0233               E               EU12.4H0.20ML     0.25 200     9
EBL Z 023325.20       P 1E 26.80       S 2E                                   10
EAU Z 023326.92       P 1E 29.76       S 3E                                   21
     -1
170188E. ANGLIA                                 5.0ADS    LMARGATE,KENT          1
       510 4.89  659.96  180.48   5.3 2.0                 51.463    1.743     2
 17 69 234 0.20  4.6  5.0 D C*D OFFSHORE LOCATION                               3
APA Z 051020.46       P 2E 31.82       S 3  7.40H0.14ML      1.00 200    95
AWH Z 051027.88       P 1E 45.50       S 2  5.60H0.06ML      1.00 200   141
AHE Z 051024.01       P 2E 37.50       S 2                                   116
ABA Z 051030.77       P 1E 49.79       S 2  8.30H0.07ML      1.00 200   164
AWI Z 051029.90       P 1E 48.87         111.8H0.09ML     1.00 200  154
DU01Z 051017.95       P 0I                                                   78
DU02Z 051022.12       P 0I                                                  102
DU03Z 051020.87       P 0I                                                   95
DU04Z 051019.68       P 0I                                                   89
DU05Z 051017 38       P 0I                                                   75
DU06Z 051017.45       P 1E 26.73       S 1                                   75
DU07Z 051016.37       P 0I 25.18       S 1                                   69
     -1
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170188 PAISLEY    PA 192                12.5       5.0DDG     LRENFREW,STRATHCLYDE   1
       231511.68  246.88/ 667.13  2.1 0.4                    55.873   -4.448     2
  4  7 294 0.01  0.0  0.0 C A*D                                                    3
PGB Z 231513.47        P 0ID14.74       S 1ID                                    7
PGB NS2315                                   11.0H0.10ML          1.0  200     7
PGB EW2315                                    8.2H0.10ML          1.0  200     7
PMS Z 231515.40        P 0IU18.15       S 1E                                    19
      -1
190188                                      5.0IMI     LSE BRIDGWATER,SOMERSET1
       14 531.25  334.95/ 133.00   9.6 1.5                    51.092   -2.929     2
 17 14 127 0.08  0.4  1.3 B A*B                                                    3
HGH Z 140542.12        P 1E 49.18       S 2                                     61
MCH Z 140548.40        P 2E 60.67       S 1                                    101
MCH NS1405                                   21.0H0.10ML          0.25 200   101
MCH EW1405                                   15.5H0.12ML          0.25 200   101
HAE Z 140549.29        P 3E 62.45       S 3                                    109
HTR Z 140549.58        P 3E 62.90       S 3                                    112
HTL Z 140549.70        P 3E 62.52       S 3                                    110
HTL NS1405                                    7.0H0.10ML          0.25 200   110
HTL EW1405                                    6.6H0.12ML          0.25 200   110
HP01Z 140539.00        P 2E                                                    46
HP03Z 140536.08        P 1E 39.61       S 3                                     24
HP06Z 140536.38        P 2E 40.15       S 1                                     28
HP07Z 140534.31        P 0ID36.51       S 0                                     14
HP09Z 140535.48        P 0I 38.45       S 3                                     22
HP10Z 140536.50        P 2E 40.38       S 1                                     28
      -1
200188 ESKNET     ES 349               12.5       5.0DDG     LETTRICKBRIDGE,BORDERS 1
       141823.15  336.04/ 624.88   6.1 1.0                    55.513   -3.013     2
 11 25 162 0.19  1.8  1.4 C B*C                                                    3
ESK Z 141827.95        P 0IU31.25       S 1ID                                   25
ESK NS1418                                    6.8H0.14ML          1.0  200     25
ESK EW1418                                   12.5H0.11ML          1.0  200     25
ECK Z 141830.13        P 0IU34.75       S 2ED                                   38
EBL Z 141828.60        P 1E 31.40       S 3E                                    29
EAU Z 141831.52        P 2E                                                    46
ESY Z 141832.00        P 0IU37.18       S 2E                                    52
EDI Z 141832.03          3E 37.17         2E  6.0H0.19M          0.25 200     47
EDI EW1418               E 37.17        S  EU 9.9H0.20ML          0.25 200     47
EBH Z 141837.58        P 2E 48.10       S 3E                                    88
EAB Z 141842.48        P 2E 55.20       S 3E                                   112
EDI NS1418               E                 EU10.0H0.19ML          0.25 200     47
      -1
200188KYLE,MORAY                                 5.0BS      LULLAPOOL,HIGHLAND     1
       212314.60  213.46/ 897.06   5.9 1.4                    57.924   -5.150     2
 15 48 223 0.72  5.9 13.0 D D*D                                                    3
KAC Z 212322.05        P 1ED28.30       S 3ED                                   48
KPL Z 212328.09        P 2ED34.31       S 3ED                                   72
KPL NS2123                                   01.6H0.10ML          01.0 200     72
KPL EW2123                                   02.0H0.19ML          01.0 200     72
KSB Z 212329.20        P 1ED37.30       S 3ED                                   81
MVH Z 212324.20        P 1EU30.70       S 3E                                    57
MDO Z 212326.80        P 1ED35.30       S 3ED                                   71
MLA Z 212333.01        P 1E 45.90       S 3E                                   114
MCD Z 212334.40        P 1EU48.70       S 3E                                   119
MCD NS2123                                   03.5H0.07ML          01.0 200     119
MCD EW2123                                   05.5H0.09ML          01.0 200     119
MME Z 212338.90        P 2E 56.70       S 3E                                   147
      -1
200188KYLE                                       5.0BS      LL LINNHE,STRATHCLYDE  1
       221234.60  178.85/ 743.44   0.8 1.7                    56.531   -5.597     2
  6 86 213 0.14  2.9  1.7 D C*D                                                    3
KPL Z 221249.90        P 2E 61.50       S 2ED                                   90
KPL NS2212                                   02.7H0.19ML          01.0 200     90
KPL EW2212                                   05.7H0.09ML          01.0 200     90
KAC Z 221251.90        P 2ED64.50       S 3ED                                  109
PMS Z 221250.69        P 1IU61.93       S 2EU                                   93
PGB Z 221252.68        P 1E 65.12       S 2EU                                  106
PGB NS2212                                    8.5H0.22ML          0.25 200   106
PGB EW2212                                    8.5H0.20ML          0.25 200   106
PCA Z 221255.45        P 2EU69.30       S 3E                                   125
EAB Z 221249.56        P 1EU60.35       S 2E                                    87
ELO Z 221254.05        P 2E 67.33       S 3E                                   116
EBH Z 221257.08        P 2E 73.50       S 3E                                   133
EAU Z 221300.08        P 3E                                                    153
EDU Z 221301.09        P 2E                                                    159
      -1
210188NORTH SEA                                  5.0BS      RNORTH SEA             1
       1528 7.86                 0.6 3.0                    58.415    1.494     2
 14234 177 0.11  0.6  0.6 C A*D                                                    3
SUE Z 152855.50        P 4I 87.40       S 4I                                   347
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HYA Z 152903.80       P 1I 40.40       S 4E                                  404
KMY Z 152843.40       P 1I 68.20       S 3E                                  234
LRW Z 152844.89       P 1EU70.31       S 3E                                  245
LRW NS1528                                  06.2H0.10ML          02.5 200   245
LRW EW1528                                  08.0H0.10ML          02.5 200   245
SAN Z 152843.70       P 1E                                                  237
WAL Z 152847.80       P 1EU                                                 271
YEL Z 152849.26       P 1EU77.51       S 3E                                 279
MCD Z 152851.51       P 2E 81.20       S 3E                                 296
MCD NS1528                                  05.0H0.12ML          02.5 200   296
MCD EW1528                                   5.0H0.09ML          02.5 200   296
MME Z 152850.60       P 1E                                                  291
MVH Z 152856.50       P 1E 90.30       S 3E                                 338
MLA Z 152850.50       P 2E 78.10       S 3E                                 284
     -1
230188N WALES                                 5.0RITCHIELLLEYN PEN,GWYNEDD    1
       5 449.85  237.44/ 346.49  24.1 0.3                 52.991   -4.422    2
  8  1 187 0.07  0.9  0.8 C A*D AFTERSHOCK                                    3
YRE Z 050453.76       P 1ID56.45       S 2  9.5 H0.06ML          0.25 200    1
YLL Z 050455.42       P 3E 58.82       S 3                                   24
WLC Z 050457.46       P 3E 63.25       S 2                                   43
WLC NS0504                                   5.9 H0.12ML          0.25 200   43
WLC EW0504                                   8.0 H0.10ML          0.25 200   43
YRH Z 050455.17       P 1IU58.71       S 1                                   22
     -1
250188          HF451                         5.0IMI     LW RHONDDA,MID GLAM    1
       12722.14  293.25/ 195.45   1.5 1.0                 51.647   -3.543    2
 19 51 239 0.16  1.2  1.1 C B*D                                              3
HGH Z 012731.36       P 1E 38.45       S 3                                   51
HTR Z 012731.53       P 1E 38.40       S 2                                   52
MCH Z 012731.71       P 2E 39.03       S 1                                   54
MCH NS0127                                  10.5H0.08ML          0.25 200   54
MCH EW0127                                  11.0H0.08ML          0.25 200   54
HAE Z 012735.99       P 3E                                                  81
HCG Z 012735.40       P 3E 44.53       S 3                                  76
HLM Z 012740.43       P 3E                                                 107
BSE Z 012744.61       P 3E                                                 133
BFR Z 012744.97       P 3E 62.13       S 3                                 136
BZO Z 012745.07       P 3E 62.35       S 3                                 139
BBR Z 012748.26       P 3E                                                 161
WFB Z 012742.27       P 2E 57.63       S 3                                 120
YRH Z 012746.49       P 1ED64.75       S 3                                 151
     -1
260188KYLE                                    5.0BS      LKINTAIL,HIGHLAND    1
       131015.98  198.66/ 822.26  17.6 0.3                 57.247   -5.338    2
  5  7 227 0.38 11.2  9.1 D D*D                                              3
KSB Z 131018.99       P 1ED21.80       S 3EU                                 7
KPL Z 131021.40       P 1ED23.20       S 3E                                 22
KPL NS1310                                  06.0H0.10ML          01.0 200   22
KPL EW1310                                  03.5H0.08ML          01.0 200   22
KAC Z 131024.60       P 3E 25.70       S 2E                                 28
     -1
260188E.ANGLIA                                5.0ADS     LNE NORWICH,NORFOLK    1
       165630.33  628.55/ 312.32   7.8 0.3                 52.660    1.380    2
  7 20 157 0.10  0.8 25.5 C C*C                                              3
APA Z 165637.57       P 1E 41.90       S 2                                  41
AWH Z 165635.82       P 1E 39.31       S 1  5.20H0.04ML          1.00 200   29
AHE Z 165634.54       P 0IU37.28       S 2  10.6H0.03ML          1.00 200   21
AWI Z 165634.211      P 0ID                                                 20
     -1
270188 LOWNET    LN 575   2328      12.5       5.0DWR     LROSEWELL,LOTHIAN    1
        83810.56  329.23/ 662.61   1.9 0.6                 55.852   -3.131    2
  8  9 120 0.09  0.5  0.8 B A*B COALFIELD TYPE                                3
EDI Z 083812.55       P  IU14.10       S 2E  7.5H0.30M            1.0 200    9
EDI NS0838               IU              E  3.5H0.55ML           1.0 200    9
EDI EW0838               E               EU 4.0H0.45ML           1.0 200    9
EBL Z 083812.80       P 1ED14.60       S 2ED                                10
EAU Z 083814.60       P 1ED17.51       S 3E                                 20
ESY Z 083816.80       P 2E                                                  33
EBH Z 083819.99       P 2E                                                  50
     -1
300188 LOWNET    LN 576    860      12.5       5.0DWR     LDALMALLY,STRATHCLYDE  1
        51831.17  218.68/ 728.73   1.0 0.7                 56.416   -4.940    2
  7 45 318 0.19 17.6 14.2 D D*D                                              3
EAB Z 051839.45       P 1EU45.67       S 2ED                                45
ELO Z 051844.19       P 2E 54.10       S 3E                                 76
EBH Z 051847.10       P 2E                                                  91
EDU Z 051851.62       P 3E                                                 120
EAU Z 051850.20       P 2E                                                 112
EDI Z 051851.62       P 4E 66.96       S 3E  1.0H0.10M           0.25 200   122
EDI NS0518               E               E  2.4H0.08ML          0.25 200   122
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EDI EW0518              E              E  1.7H0.11ML          0.25 200  122
     -1
310188 LOWNET    LN 576   1126      12.5      5.0DWR    LDOUNE,CENTRAL        1
       02932.93  271.50/ 703.18   1.9-0.1                 56.204   -4.072    2
  4 17 182 0.03  0.0  0.0 C A*D                                              3
EAB Z 002936.35       P  IU38.84       S 2E  5.2H0.11ML          0.25 200   17
EBH Z 002939.55       P 2E 44.05       S 3E  2.2H0.10ML          0.25 200   35
ELO Z 002940.77       P 2E 46.30       S 3E                                 37
EAU Z 002941.32       P 3E                                                 56
     -1
020288 PAISLEY   PA 194            12.5       5.0DDG    LGREENOCK,STRATHCLYDE  1
       1329 4.08  228.78/ 676.00   6.3 0.3                 55.947   -4.742    2
  8 11 263 0.13  1.5  1.5 C B*D                                             3
PMS Z 132906.44       P 0IU08.45       S 2EU                               11
PGB Z 132908.53       P 1ID11.55       S 2E                                23
PGB NS1329                                    7.5H0.16ML          0.25 200   23
PGB EW1329                                    8.7H0.15ML          0.25 200   23
PCO Z 132911.28       P 1EU15.97       S 3ED                               41
PCA Z 132911.53       P 1IU16.43       S 3E                                41
     -1
060288N WALES                                    5.0        LNW LLEYN,GWYNEDD     1
       5 835.61  233.35/ 349.79  12.9 0.6                 53.019   -4.485    2
 18  6 142 0.11  0.4  0.3 B A*C                                             3
YRE Z 050838.03       P 1IU39.52       S 2                                  6
YLL Z 050840.29       P 1IU43.64       S 2                                 25
YRC Z 050840.56       P 2ED44.10       S 2                                 27
WLF Z 050841.08       P 2E 44.91       S 1                                 31
WCB Z 050842.35       P 3E 47.40       S 2                                 40
WCB NS0508                               3.5 H0.11ML          0.25 200   40
WCB EW0508                               3.5 H0.10ML          0.25 200   40
WPM Z 050843.46       P 3E                                                 47
WME Z 050843.61       P 2E                                                 44
WLC Z 050844.16       P 3E 49.6        S 2                                 48
WLC NS0508                               8.0 H0.11ML          0.25 200   48
WLC EW0508                               5.4 H0.15ML          0.25 200   48
YRH Z 050839.95       P 1IU43.09       S 1                                 23
WBR Z 050843.32       P 2EU48.3        S 1                                 44
     -1
060288 CORNWALL                                  5.0ABW    LWENDRON,CORNWALL     1
       1919 4.29  166.39/  30.01   6.6 0.1                 50.124   -5.269    2
  8  5 307 0.03  0.8  0.8 C A*D                                              3
CCO Z 191905.76       P 0IU                                                 5
CCA Z 191906.00       P 0IU                                                 8
CR2 Z 191906.20       P 0IU07.61       S 1                                  9
CR2 NS1919                               6.9 H0.04ML           2.5 200    9
CR2 EW1919                              11.3 H0.04ML           2.5 200    9
CST Z 191906.52       P 0IU                                                11
CGH Z 191906.39       P 4 D                                                11
CME Z 191906.16       P 1ED07.55       S 1EU                               8
CME NS1919                               3.0 H0.03ML           2.5  200    8
CME EW1919                               7.1 H0.05ML           2.5  200    8
CRA Z 191906.05       P 1EU                                                7
CRA NS1919                               07.4H0.04ML           2.5  200    7
CRA EW1919                               11.0H0.06ML           2.5  200    7
     -1
060288 CORNWALL                                  5.0ABW    LWENDRON,CORNWALL     1
       223812.49  165.97/  30.42   6.3 0.1                 50.127   -5.275    2
  9  6 307 0.02  0.5  0.5 C A*D                                             3
CCO Z 223813.97       P 0IU                                                 6
CCA Z 223814.17       P 0IU                                                 7
CR2 Z 223814.37       P 0IU15.78       S 1                                  9
CR2 NS2238                               4.9 H0.03ML           2.5  200    9
CR2 EW2238                               8.0 H0.04ML           2.5  200    9
CST Z 223814.70       P 0IU                                                11
CBW Z 223814.82       P 1E                                                 12
CME Z 223814.26       P 1ED15.70       S 1I                                8
CME NS2238                               2.0 H0.03ML           2.5  200    8
CME EW2238                               5.1 H0.05ML           2.5  200    8
CRA Z 223814.20       P 1E                                                 7
CRA NS2238                               4.0 H0.04ML           2.5  200    7
CRA EW2238                               8.2 H0.07ML           2.5  200    7
CGH Z 223814.56       P 4                                                 12
     -1
070288KYLE                                       5.0BS     LPLOCKTON,HIGHLAND    1
       12 153.15  184.79/ 834.47   3.1 2.4                 57.350   -5.578    2
  7  5 150 0.11  0.9  2.8 C B*C                                             3
KPL Z 120154.49       P 1ID55.12       S 3E                                 5
KSB Z 120156.80       P 1I 59.00       S 3E                                18
KAC Z 120157.60       P 2ID                                                24
MDO Z 120206.31       P 1EU14.30       S 2ED                               74
MVH Z 120211.20       P 1ED23.60       S 2E                               105
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MCD Z 120217.40       P 1ED34.70       S 2ED                              142
MCD NS1202                                  14.0H0.21ML          01.0 200  142
MCD EW1202                                  13.7H0.11ML          01.0 200  142
MME Z 120219.11       P 1E 38.20       S 2EU                              158
MLA Z 120221.40       P 2E                                                169
PGB Z 120222.20       P 4E 39.65       S 4E                               184
PGB NS1202                                   6.2H0.26ML          1.0  200  184
PGB EW1202                                   5.0H0.25ML          1.0  200  184
ELO Z 120217.85       P 2ED                                               150
EAB Z 120218.00       P 2ED                                               150
EBH Z 120221.72       P 2EU                                               176
EDU Z 120222.55       P 2EU                                               180
EDI Z 120227.05       P 3ED50.05       S 3E                               216
EDI NS1202                                   8.9H0.20ML          0.25 200  216
EDI EW1202                                   7.4H0.18ML          0.25 200  216
     -1
070288KYLE                                    5.0BS     LFORT WILLIAM,HIGHLAND 1
       13 528.99  215.26/ 777.03   3.2 1.6                56.848   -5.030    2
  7 47 175 0.02  0.4  0.8 B A*C                                              3
KSB Z 130537.40       P 1E                                                 47
KPL Z 130540.40       P 1E 48.31       S 2E                                67
KPL NS1305                                  09.5H0.05ML          01.0 200  67
KPL EW1305                                  13.2H0.14ML          01.0 200  67
KAC Z 130541.70       P 1ED50.40       S 2E                                74
ELO Z 130544.20       P 2ED                                               91
EAB Z 130543.30       P 2ED                                               85
EDI Z 130553.55       P 2EU70.45       S 2EU                              154
EDI NS1305                                   3.6H0.17ML          0.25 200  154
EDI EW1305                                   4.0H0.22ML          0.25 200  154
     -1
080288KYLE                                    5.0BS     LPLOCKTON,HIGHLAND     1
       10 528.93  185.12/ 834.75   3.9 1.9                57.353   -5.572    2
  6  5 152 0.12  0.2  0.7 B A*C                                              3
KPL Z 100530.31       P 1IU31.00       S 3E                                 5
KSB Z 100532.60       P 1I 34.80       S 3ED                               18
KAC Z 100533.42       P 1ID36.19       S 3ED                               23
MCD Z 100554.30       P 4E 70 10       S 4E                               141
MCD NS1005                                  04.0H0.21ML          01.0 200  141
MCD EW1005                                  03.5H0.09ML          01.0 200  141
ELO Z 100553.10       P 2EU                                               150
EAB Z 100553.25       P 2EU                                               150
EDU Z 100557.65       P 2ED                                               180
     -1
120288MORAY                                   5.0BS     LULLAPOOL,HIGHLAND     1
       15821.51  220.85/ 896.74   0.2 1.1                57.924   -5.025    2
  5 50 283 0.05  0.2  0.2 C A*D                                              3
MVH Z 015830.80       P 2EU37.39       S 3ED                               50
MDO Z 015833.50       P 1ED                                               67
MLA Z 015839.70       P 1E 52.40       S 3E                               107
MCD Z 015841.40       P 4EU56.30       S 4E                               112
MCD NS0158                                  04.5H0.09ML          0.25 200  112
MCD EW0158                                  04.6H0.09ML          0.25 200  112
     -1
200288NORTH SEA                               5.0BS     RNORTH SEA             1
       1621 9.90                 27.6 1.7                59.764    1.882    2
  5176 171 0.54  4.0  8.3 D D*D                                              3
LRW Z 1621                52.90       S 3E                               176
LRW NS1621                                  02.1H0.09ML          01.0 200  176
LRW EW1621                                  02.5H0.13ML          01.0 200  176
SAN Z 162136.20       P 2E                                                177
HYA Z 162150.00       P 2I 75.00       S 2I                               284
KMY Z 162136.00       P 4E 58.00       S 2I                               200
     -1
210288 ESKNET    ES 354           12.5       5.0DDG    LJOHNSTONEBRIDGE,D & G 1
        22324.09  309.19/ 594.97   1.4-0.2                55.240   -3.428    2
  4 17 310 0.04  0.0  0.0 C A*D                                              3
ESK Z 022327.52       P 0IU30.12       S 1EU                               17
ESK NS0223               ED30.12       S  EU 4.6H0.12ML          0.25 200  17
ESK EW0223               EU               E  5.8H0.15ML          0.25 200  17
ECK Z 022328.25       P 0IU31.15       S 1EU                               20
     -1
210288 ESKNET    ES 354           12.5       5.0DDG    LJOHNSTONEBRIDGE,D & G 1
         244 3.38  309.26/ 595.04   1.3-0.2                55.241   -3.427    2
  4 16 310 0.05  0.0  0.0 C A*D                                              3
ECK Z 024407.55       P 0IU10.45       S 1E                                20
ESK Z 024406.80       P 0IU09.41       S 1EU                               16
ESK NS0244               EU09.41       S  EU 7.2H0.11ML          0.25 200  16
ESK EW0244               IU               E  6.3H0.11ML          0.25 200  16
     -1
220288N WALES                                 5.0       LLLEYN PEN,GWYNEDD     1
       64157.44  238.05/ 343.55  21.4 0.7                52.964   -4.412    2
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 11  2 116 0.11  0.9  0.9 B A*B AFTERSHOCK                                  3
WLC Z 06425.15        P 3E 10.48        S 2                               43
WLC NS0642                                   7.0 H0.11ML          0.25 200  43
WLC EW0642                                   6.0 H0.11ML          0.25 200  43
YRH Z 06422.4         P 3E 5.69         S 3                               21
WBR Z 06424.2         P 3E 8.6          S 3                               37
WST Z 06423.19        P 2E 7.2          S 2                               28
YRE Z 06420.72        P 2E 3.33         S 2                                2
YLL Z 06422.9         P 1IU                                               25
     -1
220288 LOWNET    LN 579            12.5       5.0DDG    LROSEWELL,LOTHIAN    1
       18 956.37  330.15/ 662.27   0.0-0.2                 55.849   -3.116   2
  4  9 180 0.04  0.0  0.0 C A*D COALFIELD TYPE                               3
EBL Z 180958.74       P 1IU                                               10
EDI Z 180958.80       P 1IU60.37        S 2E                               9
EDI NS1809               ID                ED 5.0H0.16ML          0.25 200   9
EDI EW1809               ID                EU 7.0H0.19ML          0.25 200   9
EAU Z 181000.89       P 2EU                                               21
     -1
230288 ESKNET    ES 354            12.5       5.0DDG    LNEWCASTLETON,BORDERS 1
        755 7.66  346.29/ 590.40   2.6 1.3                 55.205   -2.844   2
  5 18 212 0.12  0.2  0.9 C A*D                                            3
ECK Z 075511.31       P 0IU13.62        S 1ID                              18
ESK Z 075512.73       P 0ID16.00        S 1ID                              26
ESK NS0755               ED16.00        S  ID14.9H0.15ML       1.0  200   26
ESK EW0755               ID                ID16.8H0.19ML       1.0  200   26
XSO Z 075516.48       P 1IU                                               49
     -1
240288 LOWNET    LN 580            12.5       5.0DDG    LBLAIRHALL,FIFE      1
       164632.64  298.67/ 691.49   0.2 0.9                 56.105   -3.629   2
 10 18 122 0.09  0.3  0.5 B A*C COALFIELD TYPE                              3
EBH Z 164636.44       P 1IU39.32        S 1IU                              18
EAU Z 164638.86       P 1IU43.15        S 2EU                              31
EDI Z 164639.23       P 2E 44.35        S 2E                               34
EDI NS1646               E                 ED 9.5H0.28ML          0.25 200   34
EDI EW1646               E                 ED 6.5H0.29ML          0.25 200   34
ELO Z 164640.37       P 1ID46.32        S 2EU                              41
EAB Z 164641.08       P 3E 47.48        S 2EU                              45
     -1
240288N WALES                                5.0RITCHIELLLEYN PEN,GWYNEDD    1
       18 4 8.15  239.64/ 343.39  23.5 0.7                 52.964   -4.388   2
 12  3  86 0.09  0.4  0.7 A A*A AFTERSHOCK                                 3
WLC Z 180415.76       P 3E 21.0         S 2                               41
WLC NS1804                                   7.5 H0.12ML          0.25 200   41
WLC EW1804                                   6.0 H0.15ML          0.25 200   41
YRH Z 180413.31       P 1IU16.91        S 3                               22
WFB Z 180415.62       P 3E 20.33        S 3                               39
YRC Z 180414.89       P 3E 19.5         S 2                               34
YRE Z 180411.8        P 3E 14.63        S 3                                3
WLF Z 180415.18       P 3E 19.72        S 3                               36
     -1
250288 LOWNET    LN 580            12.5       5.0DDG    LKIRKCALDY,FIFE      1
        63027.59  331.98/ 690.79   0.2 0.3                 56.105   -3.094   2
 12 21 119 0.07  0.3  0.4 B A*C COALFIELD TYPE                              3
EDI Z 063031.91       P 0ID35.21        S 1IU10.0H0.31M        0.25 200   21
EDI NS0630               IU                IU 7.5H0.28ML          0.25 200   21
EDI EW0630               E                 ED 6.0H0.25ML          0.25 200   21
EBH Z 063033.66       P 0ID38.07        S 1ID                              30
EAU Z 063034.62       P 1ID                                               37
ESY Z 063034.68       P 1ID39.86        S 3E                               37
EBL Z 063034.80       P 1ID40.10        S 2EU                              37
EDU Z 063036.79       P 2E 43.54        S 3E                               50
ELO Z 063037.78       P 3E                                                56
     -1
250288NORTH SEA                              5.0BS     RNORTH SEA           1
        94021.49                 8.5 2.1                 59.562    1.846   2
 12180 225 0.25  4.8  4.6 D C*D                                            3
SUE Z 094055.60       P 1I 79.00        S 2I                              232
HYA Z 094104.00       P 1I 34.80        S 2I                              299
ASK Z 094053.50       P 1I 75.60        S 3E                              213
LRW Z 094049.10       P 3E 68.40        S 3E                              181
LRW NS0940                                  06.0H0.10ML          01.0 200   181
LRW EW0940                                  06.4H0.08ML          01.0 200   181
SAN Z 094048.90       P 3E 68.41        S 3E                              181
WAL Z 094053.00       P 3E                                                209
YEL Z 094051.90       P 3E 72.30        S 3E                              197
     -1
260288HEREFORD   HF456                       5.0IMI    LBRECON,POWYS        1
        65419.85  320.21/ 224.43  19.4 0.6                 51.912   -3.160   2
  7 15 182 0.11  1.7  2.0 C B*D                                            3
MCH Z 065424.18       P  IU26.96        S 1                               15
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MCH NS0654                                    18.0H0.09ML          1.00 200   15
MCH EW0654                                    10.5H0.09ML          1.00 200   15
HTR Z 065424.55       P  ID27.76       S 2                                    20
HGH Z 065427.09       P  ID                                                   39
HAE Z 065427.74       P 3E                                                    44
HCG Z 065430.07       P 3E                                                    57
     -1
260288 LOWNET    LN 580            12.5       5.0DDG    LRANNOCH MOOR,TAYSIDE  1
       174722.59  241.16/ 755.61   1.0 0.7                 56.665   -4.592    2
  7 55 294 0.09  5.2  4.0 D D*D                                                3
EAB Z 174732.65       P 2ED40.00       S 3E  2.5H0.09ML          0.25 200   55
ELO Z 174733.20       P 3E 40.95       S 3E  6.1H0.11ML          0.25 200   58
EBH Z 174736.80       P 3E 46.80       S 3E  3.4H0.13ML          0.25 200   81
EDU Z 174739.15       P 2EU                                                   98
     -1
270288N WALES                                      5.0       LLAKE BALA,GWYNEDD     1
        54147.41  298.81/ 333.61  11.1 0.2                 52.890   -3.504    2
 10 12 142 0.05  0.3  0.4 B A*C                                               3
WLC Z 054151.59       P 2E 54.36       S 2                                    22
WLC NS0541                                    10.7H0.11ML          0.25 200   22
WLC EW0541                                    10.9H0.12ML          0.25 200   22
WVR Z 054150.22       P 1IU52.13       S 2                                    12
WBR Z 054152.25       P 1IU55.35       S 3                                    27
YRE Z 054157.99       P 3E 65.19       S 3                                    63
SBD Z 054150.82       P 1IU53.02       S 1                                    17
     -1
270288 LOWNET    LN 580            12.5       5.0DDG    LROSEWELL,LOTHIAN      1
       1125 5.90  329.36/ 662.24   0.8 0.1                 55.848   -3.128    2
  5  9 171 0.12  0.4  0.5 C A*D COALFIELD TYPE                                 3
EDI Z 112508.00       P 1IU09.84       S 1IU11.0H0.22M           0.25 200    9
EDI NS1125               IU               ID 9.6H0.19ML          0.25 200    9
EDI EW1125               ED               ID 5.5H0.30ML          0.25 200    9
EBL Z 112508.33       P 1ID10.30       S 1IU                                  10
EAU Z 112510.24       P 3EU                                                   21
     -1
270288 LOWNET    LN 580            12.5       5.0DDG    LROSEWELL,LOTHIAN      1
       185810.14  328.18/ 661.91   1.6 0.0                 55.845   -3.147    2
  6  9 157 0.09  0.7  0.9 B A*C COALFIELD TYPE                                 3
EDI Z 185812.18       P 1ID13.96       S 1IU11.5H0.25M           0.25 200    9
EDI NS1858               ID               IU 7.5H0.24ML          0.25 200    9
EDI EW1858               E                ED 6.0H0.26ML          0.25 200    9
EBL Z 185812.51       P 1IU14.26       S 1IU                                  10
EAU Z 185814.20       P 2ED16.80       S 2ED                                  19
     -1
060388 PAISLEY   PA 199            12.5       5.0DDG    LRENFREW,STRATHCLYDE   1
        657 9.41  247.02/ 666.28   5.0 0.6                 55.865   -4.445    2
  6  7 244 0.01  0.4  0.5 C A*D                                               3
PGB Z 065711.11       P 0IU12.30       S 1ID                                   7
PGB NS0657                                    16.5H0.10ML          1.0  200    7
PGB EW0657                                    13.6H0.12ML          1.0  200    7
PMS Z 065713.09       P 0IU15.80       S 1EU                                  19
PCA Z 065713.62       P 1ID16.69       S 1ED                                  22
     -1
060388 ESKNET    ES 356            12.5       5.0DDG    LJOHNSTONEBRIDGE,D & G 1
       141024.26  313.71/ 592.42   3.6 1.7                 55.218   -3.357    2
 18 15 122 0.08  0.4  0.8 B A*C                                               3
ESK Z 141027.10       P 0IU29.28       S 1IU                                  15
ESK NS1410               IU               EU 5.5H0.10ML          10.0 200   15
ESK EW1410               IU               EU 5.4H0.10ML          10.0 200   15
ECK Z 141027.36       P 0IU29.50       S 1ID                                  15
XSO Z 141037.15       P 1IU                                                   76
XDE Z 141037.70       P 1E                                                    80
XAL Z 141038.35       P 1EU                                                   83
PCA Z 141037.63       P 2ED                                                   78
PGB Z 141040.67       P 2EU52.09       S 2EU                                  97
PGB NS1410               E                EU 9.7H0.13ML          1.0  200   97
PGB EW1410               E                EU 8.0H0.21ML          1.0  200   97
PCO Z 141040.98       P 2ED                                                   98
PMS Z 141042.75       P 3ED55.90       S 3E                                  112
EBL Z 141035.48       P 2E                                                    65
EAU Z 141036.10       P 2E                                                    70
EDI Z 141037.68       P 2E 47.33       S 3E  1.9H0.22M           1.0  200   79
EDI NS1410               E                EU 5.0H0.16ML          1.0  200   79
EDI EW1410               E                E  4.8H0.16ML          1.0  200   79
ESY Z 141039.50       P 2E                                                    91
     -1
080388N WALES                                      5.0RITCHIELABERYSTWYTH,DYFED     1
       102254.36  269.73/ 271.15   9.2 1.3                 52.323   -3.912    2
 16 41 199 0.27  2.5  3.2 C B*D                                               3
WCB Z 102315.14       P 3E 29.0        S 4                                   125
WCB NS1023                                    8.1 H0.15ML          0.25 200  125
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WCB EW1023                                  5.8 H0.15ML          0.25 200  125
YRC Z 102312.92       P 3E                                                113
YRE Z 10238.29        P 1IU                                                81
WLF Z 102312.68       P 1ID                                               112
WME Z 102314.3        P 3E                                                122
YLL Z 10239.4         P 3E                                                 93
WLC Z 10236.97        P 1IU15.96      S 3                                  75
WLC NS1023                                  7.9 H0.12ML          0.25 200   75
WLC EW1023                                  6.5 H0.20ML          0.25 200   75
YRH Z 10237.32        P 2E                                                 75
WVR Z 10233.50        P 3E                                                 57
WBR Z 10234.09        P 3E 11.40      S 3                                  59
WST Z 10236.51        P 3E                                                 73
WFB Z 10231.45        P 2E                                                 41
MCH Z 10236.2         P 2IU15.04      S 2                                  72
MCH NS1023                                 13.6H0.10ML          0.25 200   72
MCH EW1023                                  4.9 H0.12ML          0.25 200   72
     -1
080388HF/FFEST   HF457                        5.0IMI    LWITNEY,OXFORDSHIRE    1
       1938 2.26  434.04/ 212.48   6.7 1.5                51.809   -1.506    2
  7104 274 0.13  4.4  6.1 D C*D                                               3
MCH Z 193819.66       P 1E 31.73      S 1                                 105
MCH NS1938                                 20.5H0.12ML          0.25 200  105
MCH EW1938                                 14.0H0.11ML          0.25 200  105
WLC Z 193834.08       P 3E 55.81      S 3                                 203
WLC NS1938                                  3.0H0.10ML          0.25 200  203
WLC EW1938                                  3.0H0.10ML          0.25 200  203
WVR Z 1938                51.46       S 3                                 181
WFB Z 1938                55.03       S 3                                 199
CWF Z 193819.25       P 1E 31.79      S 1                                 104
CWF NS1938                                  4.0H0.07ML          1.00 200  104
CWF EW1938                                  4.0H0.08ML          1.00 200  104
     -1
110388N WALES                               5.0RITCHIELHOLYHEAD,GWYNEDD     1
       195638.44  201.56/ 383.36   2.8-0.3                53.310   -4.979    2
  6 28 332 0.08  1.7 25.2 D C*D                                             3
WCB Z 195643.41       P 1IU47.09      S 2                                  30
WCB NS1956                                  4.0 H0.05ML          0.25 200   30
WCB EW1956                                  2.9 H0.05ML          0.25 200   30
YRC Z 195643.27       P 2E 46.40      S 2                                  28
WME Z 195646.32       P 3E 51.48      S 3                                  46
     -1
120388 LOWNET    LN 582   1049     12.5       5.0DWR    LSALINE,FIFE          1
       1156 1.74  297.52/ 694.27   0.5 0.7                56.130   -3.649    2
  8 16 119 0.08  0.4  0.9 B A*C COALFIELD TYPE                                 3
EBH Z 115605.20       P 0IU07.78      S 2E                                 16
EAU Z 115608.38       P 2EU                                                34
EDI Z 115608.70       P 2EU14.30      S 3E  4.5H0.19M          0.25 200   37
EDI NS1156               E              ED 3.5H0.30ML          0.25 200   37
EDI EW1156               E               E 5.1H0.21ML          0.25 200   37
ELO Z 115609.08       P 2EU14.52      S 3EU                                38
EAB Z 115609.88       P 3E                                                 43
     -1
160388 PAISLEY   PA 200           12.5       5.0DDG    LCUMBERNAULD,S'CLYDE  1
        64023.89  275.76/ 670.81   4.1 1.0                55.914   -3.988    2
 14 11 144 0.12  0.4  0.9 B A*C                                               3
PCO Z 064026.22       P 0IU27.81      S 1IU                                11
PGB Z 064030.12       P 0IU34.21      S 1IU                                33
PGB NS0640               IU             IU 6.5H0.11ML          1.0  200   33
PGB EW0640               IU             EU10.5H0.13ML          1.0  200   33
PMS Z 064032.28       P 1IU                                                48
EAU Z 064030.18       P 0IU34.52      S 3E                                 34
EAB Z 064030.69       P 1IU35.40      S 3E                                 38
EBH Z 064032.39       P 1IU38.58      S 2E                                 48
EDI Z 064032.83       P 2E 38.31      S 2E  4.5H0.21M          0.25 200   50
EDI NS0640               E               E  8.5H0.13ML          0.25 200   50
EDI EW0640               E               E  7.5H0.10ML          0.25 200   50
EBL Z 064034.40       P 2E 41.82      S 3E                                 61
     -1
170388 ESKNET    ES 357           12.5       5.0DDG    LMOFFAT,D & G         1
        12633.87  318.14/ 609.69   1.1 1.1                55.374   -3.292    2
  4  8 345 0.05  0.0  0.0 C A*D                                               3
ESK Z 012636.00       P 0IU37.56      S 1ID                                 9
ESK NS0126               ID             ID 6.4H0.09ML          2.5  200    9
ESK EW0126               ID             ID11.1H0.11ML          2.5  200    9
ECK Z 012638.65       P 1IU42.13      S 1ID                                24
PGB Z 012649.35       P 4E                                                 89
PGB NS0126               E              10.0H0.18ML          0.25 200   89
PGB EW0126               E               6.0H0.14ML          0.25 200   89
     -1
190388 ESKNET    ES 358           12.5       5.0DDG    LJOHNSTONEBRIDGE,D & G 1
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      2231 3.99  308.81/ 594.99   2.4-0.2                  55.241   -3.434    2
  4 17 311 0.01  0.0  0.0 C A*D                                                3
ESK Z 223107.33       P 0IU09.77       S 2ED                                 17
ESK NS2231               IU               ED 3.4H0.15ML          0.25 200   17
ESK EW2231               IU               ED 7.5H0.09ML          0.25 200   17
ECK Z 223107.98       P 2ED10.88       S 2EU                                 21
     -1
200388 ESKNET    ES 358            12.5       5.0DDG    LJOHNSTONEBRIDGE,D & G 1
       32839.83  307.32/ 594.31   2.6-0.1                  55.234   -3.458    2
  4 18 315 0.03  0.0  0.0 C A*D                                                3
ESK Z 032843.40       P 0IU46.07       S 1ID                                 19
ESK NS0328               IU               E  6.6H0.10ML          0.25 200   19
ESK EW0328               IU               ID 9.5H0.10ML          0.25 200   19
ECK Z 032844.05       P 2EU47.02       S 1ID                                 22
     -1
200388 ESKNET    ES 358            12.5       5.0DDG    LJOHNSTONEBRIDGE,D & G 1
       42415.51  309.23/ 594.24   2.7 0.1                  55.234   -3.427    2
  4 17 310 0.08  0.0  0.0 C A*D                                                3
ESK Z 042418.76       P 0IU21.29       S 1ID                                 17
ESK NS0424               IU               IU13.5H0.10ML          0.25 200   17
ESK EW0424               IU               IU15.3H0.10ML          0.25 200   17
ECK Z 042419.48       P 1IU22.12       S 1ID                                 20
     -1
200388 ESKNET    ES 358            12.5       5.0DDG    LJOHNSTONEBRIDGE,D & G 1
       73145.21  308.49/ 594.95   2.6-0.3                  55.240   -3.439    2
  4 17 312 0.09  0.0  0.0 C A*D                                                3
ESK Z 073148.51       P 0IU51.06       S 1ID                                 17
ESK NS0731               IU               ID 4.2H0.09ML          0.25 200   17
ESK EW0731               IU               ID 6.1H0.11ML          0.25 200   17
ECK Z 073149.45       P 2EU52.11       S 1ID                                 21
     -1
200388 LOWNET LN583               12.5       5.0DWR    LJOHNSTONEBRIDGE,D & G 1
       11 454.74  307.11/ 593.81   5.7 1.8                  55.230   -3.461    2
 27 19  97 0.21  0.6  1.0 C B*C                                                3
EBL Z 110506.00       P  IU13.79       S 3E                  0.25 200   66
EAU Z 110506.50       P 1ID                                                   68
EDI Z 110508.37       P  IU17.31       S 2E                                  79
ESY Z 110510.40       P 1EU                                                   93
EBH Z 110513.65       P 1EU                 19.5H0.16ML     0.25 200  113
WIM Z 110517.52       P 1IU34.03       S 3E                                  144
ELO Z 110517.20       P 1IU33.22       S 3E 11.7H0.16ML       0.25 200  139
PCA Z 110506.81       P 1ID15.82       S 3E                                  73
PGB Z 110509.80       P 2ED20.45       S 3ED                                 91
PGB NS1105               E                E  6.2H0.11ML          2.5  200   91
PGB EW1105               EU               E  5.9H0.11ML          2.5  200   91
PCO Z 110510.29       P 2EU                                                   94
PMS Z 110512.00       P 2ED                                                  106
ESK Z 110458.40       P 0IU60.91       S 1ID                                 19
ESK NS1104               IU               IU 4.6H0.11ML          10.0 200   19
ESK EW1104               IU               IU 4.9H0.12ML          10.0 200   19
ECK Z 110459.09       P 0IU61.67       S 2EU                                 22
XDE Z 110508.32       P 1IU17.94       S 2ED                                 81
XSO Z 110508.50       P 1IU18.64       S 3EU                                 82
XAL Z 110509.92       P 2ED20.15       S 3ED                                 90
     -1
230388 WALES                                    5.0IMI    LSALFORD,GT MANCHESTER 1
       45349.36  378.04/ 395.17   9.8 1.1            3+   53.453   -2.331    2
  7109 335 0.21  8.5  3.9 D D*D FELT LEIGH,LANCS                               3
WLC Z 045407.10       P 2E 20.19       S 2                                  109
WLC NS0454                                  2.0H0.25ML     0.25 200  109
WLC EW0454                                  2.0H0.25ML     0.25 200  109
WVR Z 045407.36       P 3E 21.08       S 3                                  112
WBR Z 045409.86       P 3E 23.42       S 3                                  124
YLL Z 045410.31       P 3E                                                  128
     -1
230388 ESKNET    ES 358            12.5       5.0DDG    LJOHNSTONEBRIDGE,D & G 1
         918 6.37  308.98/ 594.09   2.6-0.1                  55.233   -3.431    2
  4 17 310 0.08  0.0  0.0 C A*D                                                3
ESK Z 091809.66       P 0IU12.23       S 1ID                                 17
ESK NS0918               IU               EU 5.5H0.17ML          0.25 200   17
ESK EW0918               IU               ED 7.5H0.10ML          0.25 200   17
ECK Z 091810.38       P 1IU13.04       S 1IU                                 20
     -1
230388 ESKNET    ES 358            12.5       5.0DDG    LJOHNSTONEBRIDGE,D & G 1
       215315.52  308.49/ 594.86   2.1 0.3                  55.239   -3.439    2
  4 17 312 0.01  0.0  0.0 C A*D                                                3
ESK Z 215318.97       P 0IU21.50       S 1ID                                 17
ESK NS2153               IU               IU 3.7H0.19ML          1.0  200   17
ESK EW2153               IU               IU11.3H0.11ML          0.25 200   17
ECK Z 215319.61       P 1IU22.58       S 1ID                                 21
     -1
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240388 PAISLEY   PA 202          12.5      5.0DDG    LSCARBA,STRATHCLYDE    1
       195514.19  170.20/ 705.53  8.5 1.6                56.187   -5.704    2
 13 71 239 0.19  2.0  3.7 C B*D                                             3
PMS Z 195525.91       P 1IU34.40      S 2EU                                 71
PGB Z 195528.65       P 2EU38.65      S 2E                                  87
PGB NS1955               E               E 12.0H0.12ML          0.25 200   87
PGB EW1955               E               E 16.1H0.10ML          0.25 200   87
PCO Z 195531.20       P 1ID43.00      S 2E                                 102
PCA Z 195531.39       P 1ID                                                106
EAB Z 195528.38       P 1IU38.18      S 2ED                                 85
ELO Z 195534.91       P 1IU49.93      S 2EU                                127
KPL Z 195534.83       P 2EU49.61      S 3E                                 128
KPL NS1955                                2.7H0.10ML          1.0  200    128
KPL EW1955                                4.0H0.19ML          1.0  200    128
     -1
270388N WALES                            5.0RITCHIELIRISH SEA               1
       21 825.79  153.68/ 326.09  9.2 1.5                52.776   -5.653    2
 20 39 121 0.24  0.8  1.2 C B*C                                             3
WCB Z 210842.28       P 3E 54.1       S 3                                  100
WCB NS2108                                12.0H0.05ML         0.25 200   100
WCB EW2108                                10.2H0.06ML         0.25 200   100
YRC Z 210840.3        P 3E                                                 90
YRE Z 210839.9        P 3E                                                 86
WLF Z 210842.32       P 3E                                                102
WME Z 210844.35       P 2E                                                114
WIM Z 210851.55       P 1IU69.95      S 3                                  166
YLL Z 210843.90       P 3E                                                108
WLC Z 210847.00       P 4  61.30      S 2                                  128
WLC NS2108                                5.3 H0.07ML         1.0  200    128
WLC EW2108                                5.9 H0.09ML         1.0  200    128
YRH Z 210837.37       P 2E                                                 69
WVR Z 210848.12       P 3E                                                138
WST Z 210843.92       P 2E                                                114
WFB Z 210844.05       P 3E 56.55      S 3                                  110
DLE Z 210839.68       P 1ID                                                83
ECP Z 210839.35       P 3E 49.0       S 3                                  82
ETA Z 210832.5        P 1IU37.23      S 3                                  39
     -1
280388N WALES                            5.0RITCHIELIRISH SEA               1
       113617.42  154.21/ 325.59  7.4 1.7                52.772   -5.644    2
 26 39 122 0.21  0.7  1.7 C B*C                                             3
WCB Z 113633.99       P 3E 45.49      S 3                                  100
WCB NS1136                                4.2 H0.05ML         1.0  200    100
WCB EW1136                                4.0 H0.10ML         1.0  200    100
YRC Z 113631.88       P 3E                                                 90
YRE Z 113631.52       P 2E                                                 85
WLF Z 113634.1        P 2E 45.6       S 2                                  102
WME Z 113636.1        P 2E 48.42      S 3                                  114
WIM Z 113643.01       P 2E 62.1       S 3                                  166
YLL Z 113635.45       P 2E                                                107
WLC Z 113638.07       P 2E 52.7       S 3                                  128
WLC NS1136                                8.0 H0.08ML         1.0  200    128
WLC EW1136                                8.1 H0.09ML         1.0  200    128
YRH Z 113629.19       P 1ID                                                69
WVR Z 113639.90       P 2E 55.98      S 3                                  138
WBR Z 113636.28       P 2E 50.25      S 3                                  118
WST Z 113635.80       P 3E 49.35      S 3                                  114
WFB Z 113635.48       P 3E 48.25      S 2                                  109
ETA Z 113624.29       P 1IU                                                39
ECP Z 113631.15       P 2E                                                 82
DLE Z 113631.43       P 1ID40.87      S 3                                  83
     -1
280388N WALES                            5.0RITCHIELIRISH SEA               1
       114247.29  163.67/ 325.15  3.6 1.1                52.772   -5.504    2
  9 48 138 0.29  1.5  5.4 C C*C                                             3
YRH Z 114256.75       P 3E 64.22      S 3  10.6H0.08ML          0.25 200   59
DLE Z 11432.9         P 2E 12.0       S 2                                  90
DMU Z 114314.9        P 4E 30.3       S 2                                 157
ECP Z 11432.2         P 2E 12.0       S 2                                  88
ETA Z 114255.7        P 1IU61.0       S 2                                  49
     -1
280388 LOWNET    LN 584   1750       12.5      5.0DWR    LLOCH ECK,STRATHCLYDE  1
       155036.57  209.57/ 687.17  0.4 1.1                56.040   -5.057    2
 13 29 282 0.17  4.2  3.1 D C*D                                             3
EAB Z 155045.29       P  IU50.81      S 4E                                 48
ELO Z 155053.33       P 2E 65.18      S 3E                                 96
EBH Z 155054.00       P 2EU65.86      S 3E                                 99
EAU Z 155054.47       P 3E 66.81      S 3E                                103
EDI Z 155057.60       P 4E 73.20      S 4E  3.1H0.19M           0.25 200   118
EDI NS1550               E              ED 5.0H0.19ML          0.25 200   118
EDI EW1550               E               E  3.3H0.20ML          0.25 200   118
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PMS Z 155042.34        P 0IU46.20        S 3E                                  29
PGB Z 155045.02        P 1IU51.22        S 3E                                  44
PGB NS1550                EU                E  7.5H0.12ML          0.25 200   44
PGB EW1550                IU                E  8.0H0.15ML          0.25 200   44
PCO Z 155047.65        P 2ED                                                   60
PCA Z 155047.90        P 2ED                                                   63
     -1
280388N WALES                                    5.0RITCHIELLLEYN PEN,GWYNEDD    1
       174041.79  240.95/ 342.78  20.9 1.0                 52.959   -4.368     2
 25  5  88 0.12  0.3  0.7 A A*A AFTERSHOCK                                      3
WCB Z 174050.38        P 3E 56.15        S 2                                   48
WCB NS1740                                     7.0 H0.06ML          0.25 200   48
WCB EW1740                                    14.0H0.06ML          0.25 200   48
YRC Z 174048.4         P 1ID53.12        S 1                                   35
YRE Z 174045.36        P 1ID47.52        S 2                                    5
WPM Z 174049.81        P 2IU55.66        S 2                                   46
WLF Z 174048.6         P 2E 53.25        S 1                                   37
WME Z 174050.2         P 1ID56.22        S 2                                   49
YLL Z 174046.98        P 1IU50.36        S 2                                   24
WLC Z 174049.10        P 1IU54.30        S 1                                   40
WLC NS1740                                    13.0H0.11ML          1.0  200   40
WLC EW1740                                    10.0H0.07ML          1.0  200   40
YRH Z 174046.81        P 1IU                                                   22
WVR Z 174051.63        P 3E 57.04        S 3                                   54
WBR Z 174048.19        P 3E 52.70        S 3                                   34
WST Z 174047.21        P 1IU50.66        S 2                                   26
WFB Z 174048.52        P 2E 53.50        S 2                                   38
     -1
290388 ESKNET    ES 359            12.5       5.0DDG    LJOHNSTONEBRIDGE,D & G 1
        52457.89  312.67/ 592.14   2.8 0.1                 55.216   -3.373     2
  4 15 300 0.08  0.0  0.0 C A*D                                                 3
ESK Z 052500.91        P 0IU03.29        S 1IU                                 16
ESK NS0525                IU                IU11.4H0.12ML          0.25 200   16
ESK EW0525                IU                IU14.1H0.10ML          0.25 200   16
ECK Z 052501.18        P 0IU03.34        S 1ID                                 16
     -1
300388 LOWNET    LN 585    124      12.5       5.0DWR    LSALINE,FIFE           1
       15 331.30  298.83/ 692.83   0.2 1.3                 56.118   -3.627     2
 10 16 120 0.20  0.8  1.2 C B*C COALFIELD TYPE                                   3
EBH Z 150335.01        P  IU37.40        S 3E                  0.25 200   16
EAU Z 150337.40        P 1IU42.68        S 3E                                  32
EDI Z 150338.00        P 2EU43.19        S 2E  6.5H0.40M
EDI NS1503                E                  ED13.0H0.42ML          0.25 200   35
EDI EW1503                E                  EU11.7H0.40ML          0.25 200   35
ELO Z 150338.98        P 2E 45.00        S 3ED                                 40
EAB Z 150339.97        P 2E 45.82        S 3E                                  45
     -1
310388N WALES                                    5.0RITCHIELLLEYN PEN,GWYNEDD    1
       10 946.01  238.33/ 343.91  22.4 0.9                 52.968   -4.408     2
 21  2  96 0.09  0.3  0.5 B A*B AFTERSHOCK                                      3
WCB Z 100954.83        P 4  60.5         S 3                                   47
WCB NS1009                                     4.5 H0.08ML          0.25 200   47
WCB EW1009                                     4.2 H0.06ML          0.25 200   47
YRC Z 100952.58        P 2E 57.03        S 2                                   33
YRE Z 100949.61        P 1ID52.30        S 2                                    2
WPM Z 100954.36        P 1I 60.35        S 3                                   47
WLF Z 100952.85        P 2E 57.41        S 3                                   36
YLL Z 100951.40        P 1IU54.89        S 2                                   25
WLC Z 100953.75        P 1IU59.2         S 1                                   42
WLC NS1009                                    12.7H0.09ML          1.0  200   42
WLC EW1009                                    15.1H0.09ML          1.0  200   42
YRH Z 100951.00        P 1IU                                                   21
WVR Z 100955.93        P 1IU62.62        S 2                                   57
WBR Z 100952.84        P 2E 57.66        S 1                                   37
WST Z 100951.80        P 1IU55.70        S 1                                   28
WFB Z 100953.46        P 2E 58.61        S 2                                   40
     -1
310388 CORNWALL                                  5.0       LEAST TRURO,CORNWALL   1
       192719.57  188.86   44.51  15.0-0.8                 50.262   -4.963     2
  3 21 343 0.00  0.0  0.0 C A*D                                                 3
CST Z 192723.35        P 1                                                     21
CBW Z 192723.42        P 1                                                     22
CR2 Z 1927                26.86        S 2                                   23
CR2 NS1927                                     3.0 H0.03ML          0.25 200   23
CR2 EW1927                                     3.5 H0.04ML          0.25 200   23
     -1
310388 CORNWALL                                  5.0       LEAST TRURO,CORNWALL   1
       192725.35  189.13/  44.61  15.2-0.1                 50.263   -4.959     2
  6 16 335 0.00  0.2  0.1 C A*D                                                 3
CST Z 192729.23          1EU            S                                     16
CBW Z 192729.30        P 1 U                                                   17
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CR2 Z 192729.50       P 1 U32.68       S 2                                    18
CR2 NS1927                                  3.6 H0.05ML          1.0  200    18
CR2 EW1927                                  3.0 H0.07ML          1.0  200    18
CCA Z 192729.85       P 1 U                                                   21
CCO Z 192730.00       P 1 U                                                   22
CGH Z 192731.00       P 4                                                     28
CPZ Z 192732.00       P 4                                                     46
CTR Z 192729.50       P 4                                                     18
CRA Z 192729.50       P 4                                                     20
     -1
310388 PAISLEY   PA 203            12.5       5.0DDG    LMULL,STRATHCLYDE      1
       23 911.49  170.32/ 725.45   6.2 1.2                 56.366   -5.719    2
 13 84 311 0.16  3.5  6.8 D C*D                                               3
PMS Z 230925.36       P 1ID35.58       S 2ED                                  84
PGB Z 230927.86       P 1ID39.81       S 2ED                                  99
PGB NS2309               ID               ED 8.0H0.13ML          0.25 200    99
PGB EW2309               ID               ED 8.5H0.12ML          0.25 200    99
PCO Z 230929.32       P 1ID42.20       S 3E                                  109
PCA Z 230930.48       P 2EU                                                  118
EAB Z 230926.21       P 1IU36.22       S 2E                                   88
ELO Z 230931.65       P 2E 46.68       S 3E                                  125
EBH Z 230933.62       P 3E 50.00       S 3E                                  138
EDI Z 230938.2        P 4E 58.08       S 4E  1.4H0.10M          0.25 200    165
EDI NS2309               E                E  3.3H0.11ML          0.25 200    165
EDI EW2309               E                EU 1.8H0.13ML          0.25 200    165
     -1
020488N WALES                                5.0RITCHIELLLEYN PEN,GWYNEDD      1
        14712.07  239.35/ 343.10  24.3 0.7                 52.961   -4.392    2
 18  3  87 0.08  0.3  0.5 A A*A AFTERSHOCK                                     3
WCB Z 014721.35       P 2E 26.65       S 2                                    48
WCB NS0147                                  4.2 H0.07ML          0.25 200    48
WCB EW0147                                  5.4 H0.07ML          0.25 200    48
YRC Z 014718.82       P 3E                                                    35
YRE Z 014716.04       P 1IU18.69       S 1                                     3
WPM Z 014720.52       P 2IU26.39       S 2                                    47
WLF Z 014719.01       P 1IU23.80       S 2                                    37
YLL Z 014717.69       P 1IU21.47       S 1                                    25
WLC Z 014719.81       P 1IU25.22       S 2                                    41
WLC NS0147                                 15.5H0.09ML          0.25 200    41
WLC EW0147                                 15.5H0.10ML          0.25 200    41
YRH Z 014717.31       P 1IU20.87       S 1                                    21
WBR Z 014719.0        P 2E 23.62       S 2                                    36
WFB Z 014719.28       P 3E 24.57       S 2                                    39
     -1
030488HEREFORD   HF461                       5.0IMI    LS NEWTOWN,POWYS       1
       16 744.77  306.57/ 280.13  16.6 1.2                 52.411   -3.374    2
 28 22  90 0.19  0.5  1.4 B B*b                                               3
HCG Z 160749.35       P 0IU52.13       S 3                                    22
HLM Z 160751.03       P 0IU55.68       S 2                                    35
HTR Z 160751.39       P 0ID56.20       S 2                                    38
MCH Z 160753.48       P 0ID60.01       S 1                                    53
MCH NS1607                                 14.0H0.07ML          1.00 200    53
MCH EW1607                                  9.5H0.09ML          1.00 200    53
HAE Z 160756.32       P 2E 64.65       S 3                                    70
HGH Z 160760.70       P 0ID                                                   94
WLC Z 160756.4        P 3E 64.55       S 2                                    71
WLC NS1607                                 10.7H0.05ML          0.25 200    71
YRH Z 160760.7        P 2IU                                                  97
WVR Z 160752.84       P 1ID58.4        S 2                                    46
WBR Z 160754.98       P 2IU62.11       S 2                                    61
WST Z 160757.02       P 2E 65.85       S 2                                    75
WFB Z 160754.0        P 3E 60.11       S 2                                    54
WLC EW1607                                  7.5 H0.05ML          0.25 200    71
BSE Z 160757.55       P 2E 66.85       S 3                                    78
BZO Z 160758.95       P 2E 69.28       S 3                                    89
BBR Z 160762.52       P 1ID75.10       S 3                                   111
     -1
030488HEREFORD   HF461                       5.0IMI    LMONMOUTH,GWENT        1
       173443.67  353.33/ 215.04   6.1 0.5                 51.832   -2.677    2
  6 23 181 0.19  0.2  2.1 C B*D                                               3
HGH Z 173448.36       P 3E 51.21       S 2                                    23
HAE Z 173448.65       P 3E 51.63       S 2                                    25
MCH Z 173449.29       P 2E 52.97       S 1                                    29
MCH NS1734                                 13.5H0.10ML          0.25 200    29
MCH EW1734                                 14.5H0.09ML          0.25 200    29
     -1
050488 LOWNET    LN 585   2092      12.5       5.0DWR    LSALINE,FIFE           1
       121050.62  298.03/ 691.36   0.1 0.9                 56.104   -3.640    2
 10 18 124 0.14  0.6  0.9 B A*C COALFIELD TYPE                                 3
EBH Z 121054.50       P 1IU56.83       S 3EU                  0.25 200    18
EAU Z 121056.92       P 1IU60.97       S 3E                                   31
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EDI Z 121057.42       P 3E 62.52       S 3E  5.0H0.21M          0.25 200   35
EDI NS1210               E                EU 7.1H0.29ML         0.25 200   35
EDI EW1210               E                E  7.4H0.28ML         0.25 200   35
ELO Z 121058.42       P 2E 64.33       S 3E                                 41
EAB Z 121059.02       P 3E 65.33       S 3E                                 45
     -1
080488HEREFORD   HF462                          5.0IMI    LSEDGLEY,STAFFORDSHIRE 1
       34855.74  383.07/ 291.49  16.4 1.0                  52.521   -2.250    2
 13  1 128 0.19  1.6  1.1 B B*B                                               3
HLM Z 034903.55       P 1ED08.84       S 2                                  43
HAE Z 034905.94       P  ID12.29       S 3                                  58
MCH Z 034908.69       P 1E 17.64       S 1                                  77
MCH NS0349                                  9.0H0.10ML          0.25 200   77
MCH EW0349                                  5.3H0.10ML          0.25 200   77
HTR Z 034910.17       P 2E 19.74       S 3                                  85
HGH Z 034913.32       P 2E                                                 105
HCG Z 034912.52       P 3E 22.35       S 3                                  98
BSE Z 034858.65       P 1ID                                                  2
BBR Z 034902.04       P 1IU06.10       S 3                                  33
     -1
080488 PAISLEY   PA 204           12.5       5.0DDG    LINVERGARRY,HIGHLAND   1
       1035 1.81  239.66/ 788.93   5.0 1.8                56.964   -4.638    2
 23 79 191 0.34  1.4  3.1 D C*D                                               3
PCO Z 103520.61       P 2EU34.60       S 3ED                              114
PMS Z 103522.04       P 2EU36.49       S 3EU                              125
PGB Z 103522.76       P 2EU37.87       S 3ED                              129
PGB NS1035               ED               E 12.0H0.13ML         0.25 200  129
PGB EW1035               E                E 10.2H0.19ML         0.25 200  129
MME Z 103519.90       P 2EU                                              109
MVH Z 103520.10       P 2EU33.05       S 3ED                              110
MCD Z 103519.30       P 2EU32.31       S 3E                               108
MCD NS1035                                  04.2H0.10ML          01.0 200  108
MCD EW1035                                  05.0H0.10ML          01.0 200  108
ELO Z 103514.80       P 2E 23.60       S 3E                                 79
EAB Z 103516.01       P 2ED26.25       S 3E                                 88
EBH Z 103519.49       P 2E 32.02       S 3E                               106
EDU Z 103520.01       P 3E 33.60       S 3E                               110
EAU Z 103525.50       P 3E                                                145
EDI Z 103526.68       P 3E 42.59       S 3E  4.0H0.20M          0.25 200  147
EDI NS1035               E                E 10.9H0.19ML         0.25 200  147
EDI EW1035               E                E 10.4H0.20ML         0.25 200  147
EBL Z 103528.60       P 3E                                               165
ESY Z 103530.60       P 3E                                               171
     -1
080488 ESKNET    ES 361           12.5       5.0DDG    LDUMFRIES,D & G        1
       185555.92  300.62/ 577.17   2.2 0.9                55.079   -3.557    2
  4 30 333 0.08  0.0  0.0 C A*D                                               3
ECK Z 185601.41       P 0IU05.60       S 2ED                              30
ESK Z 185602.40       P 0IU06.88       S 2ED                              35
ESK NS1856               IU               E 11.0H0.13ML         0.25 200   35
ESK EW1856               IU               ED13.9H0.15ML         0.25 200   35
     -1
100488 LOWNET    LN 586           12.5       5.0DWR    LROSEWELL,LOTHIAN      1
        149 4.50  329.18/ 662.90   0.4 0.1                55.854   -3.131    2
  5  8 173 0.03  0.2  0.1 C A*D COALFIELD TYPE                                 3
EDI Z 014906.70       P 1IU08.23       S 2E  9.0H0.31M          0.25 200    8
EDI NS0149               EU               E  9.3H0.20ML         0.25 200    8
EDI EW0149               E                EU10.6H0.20ML         0.25 200    8
EBL Z 014907.00       P 2E 08.73       S 3E                                 11
EAU Z 014908.47       P 3E                                                 20
     -1
100488N WALES                                  5.0RITCHIELLAKE BALA,GWYNEDD     1
       2042 4.86  284.35/ 336.26  11.3 0.6                52.911   -3.720    2
 12 10 171 0.08  0.4  0.6 B A*C                                               3
WLC Z 20427.4         P 2I 9.12        S 1                                  10
WLC NS2042                                  11.6H0.12ML          1.0  200   10
WLC EW2042                                  13.1H0.12ML          1.0  200   10
WVR Z 20428.01        P 1IU10.2        S 3                                  15
WBR Z 20427.84        P 1IU9.82        S 2                                  13
WST Z 20428.7         P 1ID11.29       S 1                                  20
WFB Z 204210.66       P 2E 14.40       S 3                                  33
YRE Z 204213.22       P 1ID                                                 48
YLL Z 204211.7        P 2I                                                 40
     -1
150488 ESKNET    ES 362           12.5       5.0DDG    LLONGTOWN,CUMBRIA      1
        856 1.29  343.93/ 569.27   3.0 0.5                55.015   -2.877    2
  5 24 282 0.02  0.6  1.3 C A*D                                               3
ECK Z 085605.88       P 0IU09.23       S 2ED                              25
ESK Z 085608.50       P 1E 13.71       S 1IU                              40
ESK NS0856               E                IU 4.5H0.11ML         0.25 200   40
ESK EW0856               E                IU 4.6H0.18ML         0.25 200   40
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XSO Z 085612.74       P 2EU                                                66
      -1
150488 LOWNET    LN 587           12.5       5.0DWR    LROSEWELL,LOTHIAN     1
       94111.51  328.47/ 661.91   0.1 0.1                55.845   -3.142    2
  8  9 127 0.06  0.3  0.4 B A*B COALFIELD TYPE                               3
EDI Z 094113.78       P 0IU15.31       S 3E  8.8H0.30M          0.25 200    9
EDI NS0941               IU               E  4.4H0.60ML         0.25 200    9
EDI EW0941               ED               EU 4.8H0.40ML         0.25 200    9
EBL Z 094114.05       P 1ID15.80       S 3ED                               10
EAU Z 094115.80       P 1ID18.72       S 3E                                20
ESY Z 094118.21       P 3E                                                 34
EBH Z 094121.14       P 3E                                                 50
      -1
180488HF/FFEST   HF463                        5.0IMI    LKNUTSFORD,CHESHIRE   1
       6 7 0.59  375.82/ 382.02  21.6 1.2                53.334   -2.363    2
 22 85 122 0.20  0.5  4.4 C B*D                                             3
WVR Z 060716.20       P 2E 28.49       S 3                                102
WLC Z 060717.07       P 1E 28.59       S 2                                102
WLC NS0607                                  6.0H0.06ML         0.25 200   102
WLC EW0607                                  5.0H0.08ML         0.25 200   102
WBR Z 060718.58       P 2E 32.20       S 2                                116
WST Z 060718.75       P 3E 32.32       S 3                                116
WFB Z 060721.48       P 2E 36.51       S 3                                134
YRH Z 060724.96       P 3E                                                162
HLM Z 060715.32       P 2E 27.10       S 2                                 98
HCG Z 0607                38.64        S 3                                143
HPK Z 060714.51       P 1E 24.29       S 1                                 85
HPK NS0607                                 14.5H0.09ML         0.25 200    85
HPK EW0607                                 17.0H0.10ML         0.25 200    85
CWF Z 060716.22       P 3E 27.55       S 2                                 97
CWF NS0607                                 11.0H0.08ML         0.25 200    97
CWF EW0607                                  9.0H0.11ML         0.25 200    97
YLL Z 060719.52       P 2E 33.75       S 3                                123
WME Z 060721.17       P 2E 35.10       S 3                                129
      -1
180488 LOWNET    LN 587           12.5       5.0DWR    LSTRATHYRE,CENTRAL    1
       151350.42  257.42/ 714.89   2.4 0.3                56.305   -4.305    2
  6 13 234 0.14  3.3  2.1 D C*D                                             3
EAB Z 151353.23       P 0ID54.82       S 3E 22.0H0.09ML         0.25 200   13
ELO Z 151357.78       P 2E 63.30       S 3E  3.0H0.13ML         0.25 200   41
EBH Z 151359.30       P 1ID66.38       S 3E  3.7H0.09ML         0.25 200   50
      -1
200488MORAY                                 5.0BS     LTAIN,HIGHLAND        1
       8 850.78  281.18/ 876.56   6.8 1.1                57.763   -3.997    2
 11 21 146 0.18  2.5  4.4 C B*C                                             3
MVH Z 080855.00       P 1EU57.70       S 2ED                               21
MCD Z 080859.10       P 2EU65.41       S 3ED                               49
MCD NS0808                                02.1H0.05ML         01.0 200    49
MCD EW0808                                03.5H0.10ML         01.0 200    49
MME Z 080903.00       P 4E                                                 80
EDU Z 080914.79       P 2E 30.36       S 4E  2.5H0.18ML         0.25 200   148
ELO Z 080914.80       P 2E 30.22       S 3E  3.0H0.10ML         0.25 200   145
EBH Z 080917.44       P 3E 37.3        S 3E  2.5H0.16ML         0.25 200   171
EAB Z 080918.37       P 3E 38.1        S 3E                               177
      -1
200488 PAISLEY   PA 206           12.5       5.0DDG    LCUMBERNAULD,S'CLYDE  1
       16 752.58  275.76/ 669.91   1.9 0.8                55.906   -3.988    2
 12 11 149 0.11  0.4  0.6 B A*C                                             3
PCO Z 160755.13       P 0IU57.00       S 1ID                               11
PGB Z 160758.74       P 1IU63.09       S 2EU                               33
PGB NS1607               ID               ED15.2H0.14ML         0.25 200   33
PGB EW1607               ID               ED21.0H0.13ML         0.25 200   33
PMS Z 160801.20       P 2ED07.20       S 3E                                48
EAU Z 160758.98       P 1IU63.50       S 3E                                34
EAB Z 160759.58       P 2E 64.18       S 3E                                38
EBH Z 160801.15       P 2E 07.79       S 1ID                               48
EDI Z 160801.50       P 4E 07.45       S 3E  4.0H0.11M          0.25 200   50
EDI NS1608               E                E  4.4H0.11ML         0.25 200   50
EDI EW1608               E                E  3.7H0.11ML         0.25 200   50
ELO Z 160803.70       P 3E 11.59       S 3E                                65
      -1
230488 PAISLEY   PA 206           12.5       5.0DDG    LCUMBERNAULD,S'CLYDE  1
       81229.90  274.87/ 670.74   5.4 0.6                55.914   -4.002    2
 11 10 209 0.10  0.7  0.7 C A*D                                             3
PCO Z 081232.09       P 0IU33.93       S 1ID                               10
PGB Z 081235.73       P 1IU40.20       S 2E                                32
PGB NS0812               E                ED 8.0H0.11ML         0.25 200   32
PGB EW0812               ID               ED13.1H0.15ML         0.25 200   32
PMS Z 081238.23       P 2ED44.15       S 3E                                47
EAB Z 081236.55       P 1IU40.98       S 3E                                37
EBH Z 081238.22       P 2E 44.72       S 2ED                               48
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ELO Z 081241.18        P 3E 48.90        S 3E                                  65
EDI Z 081240.40        P 4E 45.70        S 4E  1.7H0.21M          0.25 200     51
EDI NS0812                E                E  2.7H0.12ML         0.25 200     51
EDI EW0812                E                E  2.0H0.26ML         0.25 200     51
     -1
230488 ES/LN/PA  ES 363            12.5       5.0DDG    LLONGTOWN,CUMBRIA       1
       94928.52  346.34/ 569.21   1.4 2.4                 55.014   -2.839      2
 11 26 103 0.23  0.9  1.5 C B*C                                                 3
ECK Z 094933.61        P 0ID37.00        S 2EU                                 26
ESK Z 094936.13        P 0ID41.16        S 2ED                                 41
ESK NS0949                ID                ID13.7H0.13ML         2.5  200     41
ESK EW0949                IU                ID17.6H0.16ML         2.5  200     41
XAL Z 094936.38        P 1IU42.42        S 2ED                                 44
XSO Z 094940.38        P 1ID48.30        S 2ED                                 65
XDE Z 094940.95        P 2E              S                                     70
EBL Z 094943.82        P 0ID54.40        S 3E                                  86
ESY Z 094946.33        P 1ED58.60        S 3EU                                102
EAU Z 094946.44        P 1ID             S                                    100
EDI Z 094946.99        P 1ID59.48        S 2ED                                104
EDI NS0949                ID                ED13.6H0.12ML         1.0  200    104
EDI EW0949                ED                ED 8.0H0.23ML         1.0  200    104
EAB Z 094954.90        P 3E 74.65        S 4E                                 161
ELO Z 094956.90        P 2ED             S                                    171
EDU Z 094956.98        P 2EU             S                                    171
EBH Z 094953.03        P 2ED70.55        S 4E                                 144
PCO Z 094951.75        P 2E 68.10        S 3E                                 134
PGB Z 094951.85        P 2EU68.20        S 3E                                 137
PGB EW0949                E                E 11.5H0.20ML         2.5  200    137
PGB NS0949                E                E 10.6H0.18ML         2.5  200    137
     -1
240488N WALES                                5.0RITCHIELLLEYN PEN,GWYNEDD      1
        9 112.72  238.50/ 344.33  24.1 0.2                 52.972   -4.405      2
  8  2 138 0.07  0.8  0.7 B A*C AFTERSHOCK                                      3
YRH Z 090117.98        P 2E 21.52        S 3                                   22
WLC Z 090120.56        P 2E 25.83        S 2                                   42
WLC NS0901                                   3.0 H0.08ML           0.25 200     42
WLC EW0901                                   2.5 H0.10ML           0.25 200     42
YRE Z 090116.40        P 3E 19.31        S 2                                    2
YLL Z 090118.29        P 2E 22.10        S 3                                   25
     -1
250488  PAISLEY  PA 206            12.5       5.0DDG    LCUMBERNAULD,S'CLYDE    1
        0 312.96  275.38/ 670.64   2.4 0.6                 55.913   -3.994      2
 12 11 147 0.19  0.6  1.0 C B*C                                                 3
PCO Z 000315.40        P 2EU17.25        S 2ED                                 11
PGB Z 000319.02        P 2EU23.36        S 2E                                  32
PGB NS0003                ED                EU 7.6H0.11ML         0.25 200     32
PGB EW0003                ED                ED14.0H0.13ML         0.25 200     32
PMS Z 000321.45        P 2ED27.42        S 3E                                  48
EAU Z 000319.20        P 1IU24.00        S 2E                                  35
EAB Z 000319.78        P 2E 24.34        S 2E                                  38
EBH Z 000321.44        P 3E 28.00        S 2ED                                 48
EDI Z 000321.80        P 4E 27.38        S 3E  2.0H0.10M          0.25 200     51
EDI NS0003                E                E  2.8H0.11ML         0.25 200     51
EDI EW0003                E                E  1.8H0.21ML         0.25 200     51
ELO Z 000324.47        P 3E 32.19        S 3E                                  65
     -1
250488 ESKDALE   ES 363            12.5       5.0DDG    LINNERLEITHEN,BORDERS   1
       45623.96  334.33/ 632.22   7.2 0.7                 55.579   -3.042      2
  8 22 164 0.12  0.3  0.7 B A*C                                                 3
ESK Z 045629.78        P 1IU33.62        S 1ID                                 31
ESK NS0456                ID                ID14.0H0.09ML         0.25 200     31
ESK EW0456                E                 ID15.0H0.10ML         0.25 200     31
EBL Z 045628.20        P 0ID31.00        S 2ID                                 22
EDI Z 045631.00        P 2ED35.92        S 2EU 1.7H0.19M          0.25 200     39
EDI NS0456                ED                IU 4.6H0.23ML         0.25 200     39
EDI EW0456                E                 IU 4.0H0.27ML         0.25 200     39
EAU Z 045631.09        P 1ID             S                                     39
ESY Z 045632.00        P 1IU37.20        S 4E                                  46
     -1
250488 PAISLEY   PA 206            12.5       5.0DDG    LCUMBERNAULD,S'CLYDE    1
        714 6.68  275.46/ 670.48   6.3 1.2                 55.911   -3.993      2
 13 11 147 0.11  0.5  0.6 B A*C                                                 3
PCO Z 071409.03        P 0IU10.89        S 1IU                                 11
PGB Z 071412.68        P 1IU16.91        S 2ED                                 32
PGB NS0714                ID                EU 7.5H0.12ML         1.0  200     32
PGB EW0714                ID                EU13.0H0.13ML         1.0  200     32
PMS Z 071415.11        P 2EU21.08        S 3EU                                 48
EAU Z 071412.92        P 1IU17.52        S 3E                                  35
EAB Z 071413.34        P 2  16.99        S 3E                                  38
EBH Z 071415.15        P 1IU21.20        S 2E                                  48
EDI Z 071415.81        P 3E 21.25        S 3E  4.8H0.20M          0.25 200     51
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EDI NS0714              E               E  8.9H0.19ML          0.25 200   51
EDI EW0714              E               E  6.4H0.20ML          0.25 200   51
EBL Z 071417.11       P 2EU                                                62
ELO Z 071417.51       P 2E 25.40      S 3E                                 65
EDU Z 071422.38       P 3E                                                 93
     -1
020588 LOWNET    LN 589  1634       12.5      5.0DWR    LROSEWELL,LOTHIAN     1
       5 611.20  330.18/ 662.25   0.1 0.1                55.848   -3.115    2
  7  9 117 0.16  1.0  1.0 B B*B COALFIELD TYPE                               3
EBL Z 050613.69       P 2ED14.92      S 3E                                10
EDI Z 050613.76       P 1ID15.00      S 2EU 5.1H0.6 M          0.25 200    9
EDI NS0506              ID              EU 4.1H0.7 ML          0.25 200    9
EDI EW0506              EU              EU 3.0H0.8 ML          0.25 200    9
EAU Z 050615.70       P 2E                                                21
ESY Z 050617.60       P 3E                                                32
EBH Z 050620.95       P 3E                                                51
     -1
040588MORAY                                    5.0BS     LULLAPOOL,HIGHLAND    1
      1241 9.52  209.83/ 902.85   8.2 2.2                57.974   -5.216    2
  4 62 255 0.04  0.0  0.0 C A*D                                             3
MVH Z 124119.90       P 1IU                                               62
MDO Z 124122.49       P 1IU                                               78
MLA Z 124128.60       P 1ID41.50      S 3E                               115
MCD Z 124129.70       P 1IU43.50      S 2E                               125
MCD NS1241                         12.0H0.10ML          01.0 200   125
MCD EW1241                         13.0H0.14ML          01.0 200   125
MME Z 124133.40       P 1I 50.30      S 3E                               153
PCO Z 124145.30       P 3E 69.20      S 3E                               231
PMS Z 124146.55       P 3E 71.28      S 3E                               239
PGB Z 124146.00       P 4E 72.40      S 3E                               245
PGB NS1241              E               E 14.0H0.24ML          0.25 200   245
PGB EW1241              E               E 12.1H0.21ML          0.25 200   245
ELO Z 124139.09       P 3E 61.91      S 3E                    0.25 200   191
EAB Z 124141.68       P 3E 66.48      S 3E                               206
EDU Z 124141.77       P 3E                                               207
EBH Z 124143.40       P 3E 70.42      S 3E                               218
EDI Z 124150.20       P 4E 79.72      S 3E  4.4H0.26M          0.25 200   260
EDI NS1241              E               E  5.6H0.31ML          0.25 200   260
EDI EW1241              E               E  6.7H0.32ML          0.25 200   260
KPL Z 124122.07       P 1E 30.80      S 3E 15.5H0.10M          0.25 200    75
KPL NS1241                              E 20.5H0.12ML          0.25 200    75
KPL EW1241                              E 21.0H0.12ML          0.25 200    75
     -1
050588 ESKNET    ES 364            12.5       5.0DDG    LSUNDERLAND,TYNE & WEAR1
       3 631.82  446.59/ 551.32   7.3 2.0              3+   54.854   -1.274    2
 10 60 290 0.04  0.6  1.0 C A*D FELT RYHOPE,COALFIELD    TYPE                 3
XAL Z 030642.05       P 2E 49.45      S 2EU                               60
XSO Z 030647.32       P 2ED58.60      S 2EU                               94
ECK Z 030651.90       P 2EU66.68      S 2EU                              124
ESK Z 030653.25       P 2ED68.90      S 2ED                              134
ESK NS0306              E               EU 7.6H0.24ML          0.25 200   134
ESK EW0306              ED              ED 8.0H0.21ML          0.25 200   134
XDE Z 030655.20       P 2E 72.10      S 2EU                              148
ESY Z 030655.00       P 2E 70.80      S 3E                    0.25 200   146
EBL Z 030655.62       P 3E 72.58      S 3E                               152
EDI Z 030658.70       P 3E 77.60      S 3E  4.8H0.5 M          0.25 200   170
EDI NS0306              E               E  7.9H0.5 ML          0.25 200   170
EDI EW0306              E               E  5.0H0.4 ML          0.25 200   170
EBH Z 030702.40       P 3E                                               210
     -1
070588 ESKDALE   ES 365            12.5       5.0DDG    LLONGTOWN,CUMBRIA     1
       93245.65  343.79/ 570.89   1.0 0.6                55.029   -2.879    2
  4 23 350 0.14  0.0  0.0 C A*D                                             3
ECK Z 093250.10       P 2ED53.76      S 1EU                               23
ESK Z 093253.08       P 2E 58.06      S 1ED                               38
ESK NS0932              E               EU 4.5H0.17ML          0.25 200    38
ESK EW0932              E               EU 6.0H0.16ML          0.25 200    38
XSO Z 093256.95       P 2ED                                               65
     -1
070588 ESKDALE   ES 365            12.5       5.0DDG    LLONGTOWN,CUMBRIA     1
       105431.94  342.24/ 571.04   1.0 0.2                55.030   -2.904    2
  4 22 351 0.13  0.0  0.0 C A*D                                             3
ECK Z 105436.20       P 2EU39.70      S 1ED                               22
ESK Z 105439.20       P 2E 44.10      S 1ED                               37
ESK NS1054              E               EU 3.0H0.11ML          0.25 200   37
ESK EW1054              E               EU 3.9H0.10ML          0.25 200   37
XSO Z 105443.08       P 2ED                                               66
     -1
070588 LOWNET    LN 590   1113      12.5       5.0DWR    LDOLLAR,CENTRAL       1
       142443.78  294.83/ 696.31   0.1 1.0                56.148   -3.693    2
  9 16 120 0.05  0.3  0.5 B A*C COALFIELD TYPE                               3
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EBH Z 142447.33       P  IU50.11       S 2EU                        0.25 200   16
ELO Z 142450.80       P 1IU55.86       S 3E                                    36
EAU Z 142450.99       P 1IU                                                    37
EDI Z 142451.52       P 2E 57.09       S 3E  4.2H0.31M              0.25 200   40
EDI NS1424               E                E  4.0H0.50ML            0.25 200   40
EDI EW1424               E                E  4.0H0.40ML            0.25 200   40
EAB Z 142451.52       P 3E                                                     40
EDU Z 142455.03       P 3E                                                     61
     -1
070588 LOWNET    LN 590   1116      12.5      5.0DWR    LROSEWELL,LOTHIAN      1
       143646.69  330.46/ 663.00   4.0 0.7                 55.855   -3.111    2
  8  9 112 0.12  0.6  2.7 B B*B COALFIELD TYPE                                 3
EDI Z 143648.58       P 1IU50.28       S 2ED 9.4H0.29M               1.0 200    9
EDI NS1436               IU               E  4.0H0.60ML             1.0 200    9
EDI EW1436               ED               E  5.0H0.30ML             1.0 200    9
EBL Z 143648.80       P 1IU50.70       S 3EU                                   10
EAU Z 143650.71       P 2ED53.99       S 3E                                    22
ESY Z 143652.60       P 3E                                                     32
EBH Z 143655.80       P 3E                                                     50
     -1
110588 CORNWALL                                  5.0       LNW ST IVES,CORNWALL   1
       1925 8.57  140.09/  72.26   3.7 0.9                 50.492   -5.665    2
  8 38 322 0.04  1.5 15.2 D C*D OFFSHORE                                       3
CPZ Z 192515.16       P 2E                                                    38
CCA Z 192516.65       P 1ED                                                   46
CST Z 192517.05       P 1 D                                                   49
CR2 Z 192517.37       P 1 D24.14       S 2                                    51
CR2 NS1925                                  6.0 H0.04ML           1.0  200   51
CR2 EW1925                                  6.0 H0.04ML           1.0  200   51
CCO Z 192517.63       P 1 D                                                   52
CBW Z 192518.07       P 1 D                                                   55
CGH Z 192519.26       P 2E                                                    61
     -1
120588 ROSLIN    RO 032            12.5      5.0DWR    LBONNYRIGG,LOTHIAN     1
        01422.00  331.19/ 665.40   1.8 1.1              3+   55.877   -3.100    2
 11  3 321 0.05  0.8  1.5 C A*D FELT BONNYRIGG,COALFIELD TYPE                   3
RHC Z 001422.86       P 2E 23.51       S 3E                                    3
RMM Z 001422.99       P 1ED23.62       S 3E                                    3
RGH Z 001423.05       P 1EU24.04       S 3E                                    4
RCH Z 001423.15       P 1IU24.06       S 2E  3.1H0.24M               1.0   4    4
RCH NS0014               E                ID 5.0H0.29M              1.0   4    4
RCH EW0014               E                EU 6.1H0.29M              1.0   4    4
RCA Z 001423.18       P 2E 24.02       S 3E  1.5H0.21M               1.0   4    5
RCA NS0014               E                E  1.8H0.21M              1.0   4    5
RCA EW0014               E                E  3.0H0.16M              1.0   4    5
RRD Z 001423.20       P 2E                                                     4
ESK Z 001432.73       P 3E 40.86       S 3E  1.5H0.9 M              0.25 200   63
ESK NS0014               E                E  2.0H0.9 ML             0.25 200   63
ESK EW0014               E                E  4.3H0.11ML             0.25 200   63
PCO Z 001433.32       P 3E 41.01       S 3E                                    64
PGB Z 001436.71       P 4E 48.06       S 3E  2.4H0.12M               0.25 200   87
PGB NS0014               E                E  5.5H0.11ML             0.25 200   87
PGB EW0014               E                E  5.6H0.18ML             0.25 200   87
PMS Z 001439.31       P 3E 51.62       S 4E                                   103
     -1
120588 PAISLEY   PA 209            12.5      5.0DDG    LLOCH ETIVE,STRATHCLYDE1
        54928.68  192.58/ 737.31   1.5 1.4                 56.482   -5.369    2
  4 81 352 0.10  0.0  0.0 C A*D                                                3
PMS Z 054942.68       P 2ED52.61       S 3E                                    81
PGB Z 054944.40       P 2ED56.15       S 3ED                                   93
PGB NS0549               E                E  9.9H0.10ML             0.25 200   93
PGB EW0549               E                E 10.8H0.11ML             0.25 200   93
     -1
120588 LOWNET    LN 591    421      12.5      5.0DWR    LLOCH ECK,STRATHCLYDE  1
       123612.15  216.92/ 689.13   2.7 0.7                 56.060   -4.941    2
 11 27 266 0.14  1.0  1.6 C B*D                                                3
EAB Z 123619.10       P 2EU24.76       S 3E 10.7H0.09ML              0.25 200   40
ELO Z 123627.49       P 3E 38.72       S 3E  5.1H0.10ML              0.25 200   89
EBH Z 123628.00       P 3E 39.30       S 3E  3.6H0.10ML              0.25 200   91
EAU Z 123628.85       P 2E                                                    96
EDU Z 123633.88       P 3E                                                   131
PMS Z 123617.08       P 1IU                                                   27
PGB Z 123619.56       P 2ED24.62       S 2E                                   40
PGB NS1236               E                E  4.0H0.12ML             0.25 200   40
PGB EW1236               E                E  4.5H0.10ML             0.25 200   40
PCO Z 123621.74       P 2ED                                                   53
PCA Z 123622.50       P 2E                                                    59
     -1
130588HEREFORD   HF467                           5.0IMI    LABERCRAF,POWYS        1
       111845.41  287.79/ 209.88  14.7 1.5                 51.776   -3.627    2
  8 37 205 0.10  1.4  3.7 C B*D                                                3
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HTR Z 111852.56       P 3E 58.35       S 3                                  42
MCH Z 111854.26       P 0IU60.38       S 1                                  50
MCH NS1118                                  18.0H0.16ML          0.25 200   50
MCH EW1118                                  23.5H0.18ML          0.25 200   50
HCG Z 111855.78       P 2E 63.23       S 3                                  61
HSA Z 111851.98       P 2EU57.00       S 2
     -1
140588 LN(TR)    ET 138            10.0       5.0DDG    LRANNOCH MOOR,TAYSIDE  1
       126 4.67  261.23/ 746.13   3.6 1.7                 56.587   -4.260    2
 16 36 253 0.22  2.3  1.8 C B*D                                               3
ELO Z 012611.52       P 0IU16.66       S 2E                                 36
EAB Z 012612.59       P 1IU18.40       S 3E                                 45
EBH Z 012615.84       P 1IU23.40       S 2E                                 60
EDU Z 012618.23       P 1EU27.72       S 3E                                 77
EDI NS0126               E                E  3.2H0.20ML          1.0  200   99
EDI EW0126               E                E  4.0H0.17ML          1.0  200   99
PCO Z 012616.69       P 1IU25.32       S 2E                                 67
PMS Z 012619.92       P 2E                                                  88
PGB Z 012619.60       P 2EU31.25       S 2ED                                88
PGB NS0126               E                E 11.3H0.13ML          0.25 200   88
PGB EW0126               E                E 10.1H0.13ML          0.25 200   88
PCA Z 012622.10       P 2E                                                  99
ESK Z 012633.16       P 4ED51.16       S 4E                                156
ESK NS0126               E                E  9.7H0.14ML          0.25 200  156
ESK EW0126               E                E  9.0H0.11ML          0.25 200  156
MCD Z 012624.90       P 2EU40.01       S 3E                                127
MCD NS0126                                  04.0H0.10ML          01.0 200   127
MCD EW0126                                  03.5H0.09ML          01.0 200   127
KPL Z 012622.32       P 3ED36.20       S 3E                                119
KPL NS0126                                  06.5H0.10ML          01.0 200   119
KPL EW0126                                  09.0H0.11ML          01.0 200   119
EDI Z 012621.89       P 2ED34.86       S 2E  2.5H0.21M           1.0  200   99
     -1
150588HEREFORD   HF467                        5.0IMI    LWORCESTER,HER & WORC  1
       10 7 9.36  388.94/ 262.64   7.8 1.2                 52.261   -2.162    2
 21 36 165 0.31  1.3  4.3 C C*C                                               3
HAE Z 100716.12       P 0IU19.78       S 2                                  36
MCH Z 100720.11       P 0IU27.85       S 1                                  64
MCH NS1007                                  19.5H0.10ML          0.25 200   64
MCH EW1007                                  15.0H0.09ML          0.25 200   64
HTR Z 100722.05       P 3E 31.58       S 3                                  78
HGH Z 100723.19       P 2E 32.65       S 3                                  82
HLM Z 1007               26.00         S 3                                  57
HCG Z 100726.34       P 3E                                                 102
WBR Z 100730.38       P 3E 46.17       S 3                                 135
WLC Z 100731.31       P 3E 47.04       S 3                                 137
WLC NS1007                                   4.0H0.12ML          0.25 200  137
WLC EW1007                                   3.5H0.15ML          0.25 200  137
WFB Z 100730.69       P 3E 46.22       S 3                                 136
CWF Z 100722.34       P 2ED31.40       S 3                                  79
CWF NS1007                                   8.8H0.06ML          0.25 200   79
CWF EW1007                                  12.8H0.07ML          0.25 200   79
KWE Z 100724.01       P 2E 33.83       S 3                                  87
KBI Z 100728.96       P 2ED                                                119
     -1
190588 ESKDALE   ES 367            12.5       5.0DDG    LBYRNESS,NORTHUMBERLAND1
       1344 3.71  369.06/ 604.40   7.1 0.4                 55.333   -2.488    2
  6 23 207 0.10  1.4  1.6 C B*D                                               3
XSO Z 134408.25       P 1IU11.43       S 1ID                                23
ECK Z 134411.46       P 1ID16.73       S 2EU                                44
ESK Z 134411.69       P 2EU17.47       S 2ED                                46
ESK NS1344               E                E  3.7H0.10ML          0.25 200   46
ESK EW1344               E                E  3.5H0.10ML          0.25 200   46
     -1
200588KEYWORTH   KW 004             25.0       5.0JAR    LDEARNE,S YORKSHIRE    1
    OB  13822.15  445.15/ 403.39   3.5 1.8                 53.525   -1.319    2
  7 33 165 0.34  3.3  6.0 C C*C COALFIELD TYPE                                 3
KBI Z 013828.19       P 2E                                                 33
KWE Z 013833.47       P 2ED42.94       S 4                                  66
KSY Z 013835.37       P 3E                                                 79
CWF Z 013837.28       P 3E 47.88       S 3                                  88
CWF NS0138                                   8.5H0.16ML          0.25 200   88
CWF EW0138                                  12.4C0.18ML          0.25 200   88
HPK Z 013832.03       P 3E 37.61       S 3                                  52
HPK NS0138                                   4.0H1.02ML           1.0 200   52
HPK EW0138                                   4.0H1.12ML           1.0 200   52
     -1
200588 CORNWALL                              5.0ABW    LDODMAN POINT,CORNWALL 1
       1924 5.04  193.67/  15.59   9.8 0.0                 50.004   -4.880    2
  5 21 331 0.23 12.6 24.9 D D*D 25KM SOUTH OF DODMAN PT                        3
CGH Z 192409.21       P 1E                                                 21
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CR2 Z 1924                13.37       S 2                                  28
CR2 NS1924                                 9.4 H0.05ML          0.25 200   28
CR2 EW1924                                 8.1 H0.05ML          0.25 200   28
CCO Z 1924                14.25       S 2                                  27
CCA Z 1924                14.92       S 2                                  32
CBW Z 1924                12.95       S 2                                  23
     -1
230588MORAY,KYLE                          5.0BS     LRANNOCH MOOR,TAYSIDE  1
       61334.57  249.69/ 751.32   8.8 2.6              56.630   -4.451    2
 22 49  99 0.28  0.8 16.9 C C*C                                            3
KSB Z 061349.10       P 1ID59.20       S 2I                                88
KAR Z 061349.30       P 1ID59.80       S 2I                                90
MDO Z 061349.42       P 2I 60.49       S 2I                                91
KPL Z 061352.40       P 1ID65.10       S 2I                               108
KPL NS0613                                03.3H0.09ML          10.0 200   108
KPL EW0613                                02.2H0.11ML          10.0 200   108
KAC Z 061352.60       P 1I 66.20       S 3E                               110
MME Z 061354.00       P 2I                                                118
MCD Z 061356.12       P 2I 72.20       S 2I                               129
MCD NS0613                                02.5H0.19ML          10.0 200   129
MCD EW0613                                04.2H0.10ML          10.0 200   129
EAB Z 061342.91       P 0ID48.40       S 3EU                               50
PCO Z 061347.21       P 1ED                                               75
PMS Z 061349.50       P 1IU59.76       S 2ED                              89
PGB Z 061349.80       P 1EU60.42       S 2ED                              91
PGB NS0613               ED               E  9.0H0.20ML          2.5  200   91
PGB EW0613               E                ED 6.9H0.19ML          2.5  200   91
EBH Z 061346.92       P 0IU55.23         3EU                                72
ESK Z 061401.20       P 1EU20.55       S 2ED                              166
ESK NS0614               E                E 10.2H0.18ML          1.0  200  166
ESK EW0614               E                E 11.1H0.15ML          1.0  200  166
ELO Z 061342.86       P 0IU48.38       S 2ID                               49
     -1
240588 LOWNET    LN 592            12.5       5.0DWR    LRANNOCH MOOR,TAYSIDE  1
        934 9.41  250.52/ 744.17   3.1 1.4              56.566   -4.433    2
  6 42 279 0.08  4.6  8.4 D C*D                                            3
EAB Z 093417.00       P 1ID22.69       S 2IU                               42
EBH Z 093421.11       P 2ED29.29       S 3E                                67
EDU Z 093424.09       P 1ID34.62       S 3E                                87
EDI Z 093425.80       P 4E 40.60       S 3E  3.4H0.22M          0.25 200  105
EDI NS0934               E                E  4.2H0.22ML         0.25 200  105
EDI EW0934               E                E  4.6H0.25ML         0.25 200  105
     -1
270588 LOWNET    LN 593            12.5       5.0DWR    LRANNOCH MOOR,TAYSIDE  1
       41229.91  254.70/ 740.24   1.5 0.7              56.532   -4.363    2
  7 38 271 0.23 14.6 10.9 D D*D                                            3
EAB Z 041237.05       P 3E 42.19       S 3E  2.4H0.11ML         0.25 200   38
ELO Z 041237.31       P 1EU42.81       S 2E  4.4H0.19ML         0.25 200   41
EBH Z 041241.39       P 2E 49.51       S 3E  2.0H0.31ML         0.25 200   62
EDU Z 041244.30       P 1IU                  5.0H0.11ML         0.25 200   83
EDI Z 041249.8        P 4E 64.3        S 3E  1.5H0.18M          0.25 200  100
EDI NS0412               E                E  3.1H0.10M          0.25 200  100
EDI EW0412               E                E  3.0H0.16M          0.25 200  100
     -1
280588HEREFORD   HF469                    5.0IMI    LKINGTON,HER & WORC    1
       35141.35  331.57/ 250.70  22.8 1.0              52.150   -3.000    2
 21 17 101 0.09  0.6  0.8 B A*B                                            3
MCH Z 035146.10       P  IU49.49       S 1                                 17
MCH NS0351                             19.0H0.12ML          1.00 200   17
MCH EW0351                             20.0H0.10ML          1.00 200   17
HTR Z 035146.28       P  IU49.86       S 2                                 20
HAE Z 035147.95       P  ID52.75       S 3                                 33
HCG Z 035150.14       P 2E 55.99       S 3                                 49
HLM Z 035149.12       P 3E                                                 42
WVR Z 035154.78       P 2E 63.97       S 3                                 83
WFB Z 035156.00       P 3E 66.31       S 3                                 92
WBR Z 035157.22       P 3E 68.01       S 3                                 99
WLC Z 035158.59       P 3E 70.02       S 2                                108
WLC NS0351                              7.5H0.12ML          0.25 200   108
WLC EW0351                              3.0H0.11ML          0.25 200   108
YRH Z 035163.08       P 2E                                                134
YRE Z 035162.45       P 3E 77.39       S 3                                134
YLL Z 035162.49       P 3E 77.15       S 3                                136
WPM Z 035163.24       P 3E                                                138
CWF Z 035162.45       P 4E 76.09       S 4
CWF NS0351                              9.3H0.07ML          0.25 200
CWF EW0351                              6.0H0.07ML          0.25 200
     -1
010688N WALES                          5.0RITCHIELLLEYN PEN,GWYNEDD      1
        7 3 2.83  238.98/ 344.57  24.1 0.5              52.974   -4.398    2
 10  2 153 0.11  1.1  0.9 C B*C AFTERSHOCK                                 3
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WLC Z 070310.61        P 2E 16.6        S 2                                  42
WLC NS0703                                   6.6 H0.07ML          0.25 200   42
WLC EW0703                                   5.6 H0.09ML          0.25 200   42
YRH Z 07038.15         P 2E 11.7        S 1                                  22
WBR Z 07039.5          P 3E 14.68       S 2                                  36
WST Z 07038.9          P 2E 12.71       S 2                                  28
YRE Z 07036.7          P 2E 9.4         S 2                                   2
      -1
020688HEREFORD   HF470                          5.0IMI     LABERDARE,MID GLAMORGAN1
       214528.05  305.51/ 202.11   7.3 0.4                  51.709   -3.368    2
  6 40 173 0.07  0.3  1.4 B A*C                                                 3
HGH Z 214535.05        P 1ED40.08       S 3                                  40
MCH Z 214535.30        P 2E 40.35       S 2                                  41
MCH NS2145                                 3.5H0.12ML          0.25 200   41
MCH EW2145                                 4.0H0.12ML          0.25 200   41
HTR Z 214535.48        P 3E                                                  42
HSA Z 214537.42        P 2E                                                  55
      -1
020688HEREFORD   HF470                          5.0IMI     LABERDARE,MID GLAMORGAN1
       214636.39  304.71/ 201.97   1.6 1.3                  51.708   -3.379    2
 11 40 123 0.07  0.3  0.5 B A*C                                                 3
HGH Z 214643.84        P 0ID49.40       S 2                                  40
MCH Z 214644.08        P 1E 49.52       S 1                                  42
MCH NS2146                                14.0H0.11ML          0.25 200   42
MCH EW2146                                18.5H0.12ML          0.25 200   42
HTR Z 214644.26        P 0IU49.90       S 2                                  42
HAE Z 214648.60        P 3E 57.00       S 3                                  68
HCG Z 214649.45        P 3E 57.62       S 3                                  71
HSA Z 214646.06        P 2E                                                  54
HTL Z 214655.79        P 3E 68.53       S 2                                 111
HTL NS2146                                 6.5H0.16ML          0.25 200   111
HTL EW2146                                 8.0H0.18ML          0.25 200   111
      -1
040688 PAISLEY   PA 212           12.5        5.0DDG     LJURA,STRATHCLYDE       1
        31136.61  146.84/ 688.52   2.9 1.7                  56.023   -6.063    2
 20 85 262 0.20  2.3  3.4 C B*D                                                 3
PMS Z 031150.98        P 1IU61.28       S 2EU                                85
PGB Z 031153.83        P 0ID65.70       S 2EU                               102
PGB NS0311               IU               IU 6.1H0.11ML          1.0  200  102
PGB EW0311               ID               E  4.8H0.10ML          1.0  200  102
PCA Z 031156.20        P 1ID70.17       S 3E                                119
PCO Z 031156.78        P 2ED71.32       S 3E                                123
KPL Z 031200.50        P 2EU18.41       S 3E                                149
KPL NS0312                                 7.2H0.12ML          1.0  200  149
KPL EW0312                                 7.5H0.10ML          1.0  200  149
KSB Z 031158.81        P 1ED75.52       S 3E                                138
KAC Z 031204.00        P 1EU23.84       S 3E                                171
EAB Z 031154.44        P 1EU67.90       S 2E                                109
ELO Z 031201.66        P 1ED                                                154
EBH Z 031202.92        P 2E                                                 161
ESK Z 031206.95        P 4E 28.60       S 4E                                196
ESK NS0312                                 8.5H0.17ML          0.25 200   196
ESK EW0312                                 4.5H0.11ML          0.25 200   196
EDI Z 031205.52        P 3E 25.17       S 3E                                180
EDI NS0312               E                E  3.8H0.11ML          0.25 200   180
EDI EW0312               E                E  3.5H0.11ML          0.25 200   180
EBL Z 031207.35        P 3E                                                 191
      -1
050688 LOWNET    LN 594 1589      12.5        5.0DDG     LROSEWELL,LOTHIAN       1
        235210.16  329.79/ 662.87   0.9 0.5                  55.854   -3.122    2
  6  9 179 0.04  0.7  0.7 B A*C COALFIELD TYPE                                   3
EDI Z 235212.37        P 0IU13.93       S 1IU 6.5H0.21M          1.0  200    9
EDI NS2352               IU               IU 5.2H0.19ML          1.0  200    9
EDI EW2352               ED13.93          IU 6.4H0.18ML          1.0  200    9
EBL Z 235212.69        P 1ED14.43       S 1ED                               10
EAU Z 235214.41        P 0ID17.64       S 1IU                               21
      -1
060688EAST ANGLIA                             5.0RITCHIELSTIFFKEY,NORFOLK       1
        2351 2.58  596.82/ 343.23  21.5 2.1                  52.947    0.925    2
 15 16 188 0.08  0.5  0.6 C A*D                                                 3
APA Z 235115.91        P 1ID                                                 81
AWH Z 23519.32         P 0IU14.45       S 2                                  35
AHE Z 235112.67        P 2E 19.90       S 2                                  59
ABA Z 23517.09         P 0ID10.70       S 2                                  16
AWI Z 23519.49         P 2ED                                                 37
CWF Z 235125.75        P 2E 42.65       S 3                                 152
KTG Z 235120.49        P 3E                                                 113
CWF NS2351                                 5.6 H0.16ML          1.0  200   152
CWF EW2351                                 5.0 H0.13ML          1.0  200   152
KSY Z 235118.73        P 3E 30.50       S 2                                 102
KBI Z 235127.82        P 3E                                                 168
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KUF Z 235117.96       P 2E                                                  96
      -1
080688 LOWNET    LN 594           12.5       5.0DDG    LROSEWELL,LOTHIAN      1
       53151.37  329.02/ 662.52   0.2-0.1                55.851   -3.134     2
  4  9 290 0.03  0.0  0.0 C A*D COALFIELD TYPE                                3
EDI Z 053153.58       P 1ID55.13       S 1ID                                  9
EDI NS0531               ID               ID 5.4H0.22ML          0.25 200    9
EDI EW0531               E                E  6.0H0.23ML          0.25 200    9
EAU Z 053155.67       P 2ED58.90       S 2EU                                 20
      -1
080688 PA/KY/LN                        10.0       5.0DDG    LMULL,STRATHCLYDE      1
        8 7 3.23  139.14/ 751.90   2.2 2.1                56.586   -6.249     2
 16 86 252 0.18  3.1  1.8 D C*D                                              3
EAB Z 080724.15       P 2ED39.42       S 3E 21.0H0.10M        0.25 200   126
ELO Z 080729.14       P 2ED47.41       S 3E 21.9H0.10M        0.25 200   157
EBH Z 080732.10       P 3E 52.30       S 4E 10.0H0.14M        0.25 200   173
EDU Z 080736.60       P 3ED59.30       S 4E  9.7H0.16M        0.25 200   199
PMS Z 080723.88       P 1IU37.75       S 2EU                              125
PGB Z 080726.09       P 2EU42.52       S 2EU                              140
PGB NS0807               E                E  6.5H0.13ML          1.0  200   140
PGB EW0807               E                E  6.3H0.15ML          1.0  200   140
PCA Z 080728.62       P 2ED47.50       S 3ED                              159
KSB Z 080717.71       P 1ID28.30       S 3E                                86
KPL Z 080718.61       P 1ID30.31       S 3ED                               91
KPL NS0807                                  07.0H0.08ML          2.5  200    91
KPL EW0807                                  08.7H0.10ML          2.5  200    91
KAC Z 080722.60       P 1ED36.40       S 3E                               117
      -1
090688HF/FFEST   HF471                        5.0IMI    LLAMPETER,DYFED        1
       1336 0.04  257.15/ 241.58   2.7 1.3                52.054   -4.084     2
 19 34 144 0.33  0.8  2.0 C C*C                                              3
HCG Z 133607.05       P 1E 12.26       S 2                                 42
HTR Z 133610.04       P 2E 17.32       S 3                                 56
MCH Z 133613.21       P 2E 22.25       S 2                                 75
MCH NS1336                                  7.0H0.16ML          0.25 200    75
MCH EW1336                                  8.0H0.15ML          0.25 200    75
HLM Z 133616.96       P 2E                                               97
HGH Z 133617.42       P 3E                                              100
HAE Z 133618.10       P 2E                                              106
WFB Z 133611.81       P 1E 20.21       S 3                                 70
WVR Z 133614.65       P 3E                                                89
WBR Z 133614.80       P 3E                                                90
YRH Z 133616.15       P 1E                                                94
WST Z 133617.10       P 3E                                               103
WLC Z 133617.60       P 3E 30.10       S 3                                107
WLC NS1336                                  3.5H0.15ML          0.25 200   107
WLC EW1336                                  5.0H0.19ML          0.25 200   107
HSA Z 133606.19       P 0IU                                               34
HTL Z 133621.12       P 2E                                               121
      -1
090688 CORNWALL                             5.0       LS CONSTANTINE,CORNWALL1
       234041.03  173.40/  28.79   6.7-0.3                50.115   -5.170     2
  5  6 338 0.00  0.2  0.2 C A*D                                               3
CTR Z 234042.55       P 1  43.73       S 1                                  6
CME Z 2340                43.98       S 1                                  7
CRA Z 234042.56       P 1  43.73       S 1                                  6
CTR NS2340                                 13.0H0.06ML          0.25 200    6
CTR EW2340                                 18.0H0.05ML          0.25 200    6
      -1
130688 CORNWALL                             5.0        SW SCILLY ISLES       1
        21424.69  -13.88/ -38.75   5.0 2.7                49.410   -7.708     2
  6200 359 0.04 41.5 19.1 D D*D                                              3
CTR Z 021455.54       P 1  78.04       S 2                                202
CTR NS0214                                 7.5 H0.10ML          2.5  200   202
CTR EW0214                                 9.0 H0.06ML          2.5  200   202
CME Z 021455.34       P 1  77.65       S 2                                200
CRA Z 021455.18       P 1  77.57       S 2                                200
      -1
140688 LOWNET    LN 595           12.5       5.0DDG    LROSEWELL,LOTHIAN      1
       10 039.21  328.55/ 661.95   0.3 0.9                55.845   -3.141     2
  8  9 127 0.10  0.2  0.2 B A*B COALFIELD TYPE                               3
EDI Z 100041.43       P 0IU43.00       S 1IU 6.1H0.21M        2.5  200    9
EDI NS1000               IU               IU 6.0H0.20ML          2.5  200    9
EDI EW1000               ID43.00          IU 7.5H0.20ML          2.5  200    9
EBL Z 100041.72       P 0ID43.49       S 2ED                              10
EAU Z 100043.42       P 0ID46.70       S 2EU                              20
ESY Z 100045.95       P 2ED                                               34
EBH Z 100048.78       P 2EU                                               50
      -1
170688VARIOUS                               5.0IMI    LACCRINGTON,LANCASHIRE 1
       171441.58  379.18/ 430.22   8.8 1.5                53.768   -2.316     2
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 13 35 197 0.11  1.0  2.3 C B*D                                          3
KWE Z 171456.51       P 3E 67.14       S 3                             89
WLC Z 171462.62       P 3E 77.30       S 2                            130
WLC NS1714                                 9.0H0.08ML        0.25 200  130
WLC EW1714                                10.5H0.07ML        0.25 200  130
WVR Z 171464.11       P 3E 79.40       S 3                            138
SBD Z 171460.31       P 2E 73.85       S 3                            115
CWF Z 171463.14       P 3E 78.58       S 3                            133
CWF NS1714                                12.0H0.07ML        0.25 200  133
CWF EW1714                                 6.9H0.07ML        0.25 200  133
BMY Z 171447.84       P 1E 52.12       S 2                             35
HPK Z 171450.22       P 1E 56.50       S 1                             50
HPK NS1714                                13.5H0.16ML        1.00 200   50
HPK EW1714                                10.8H0.12ML        1.00 200   50
     -1
190688 CORNWALL                              5.0ABW    LCAMBORNE,CORNWALL    1
       133218.94  166.86/  41.01   1.6-0.2                50.222   -5.269    2
  6  5 320 0.00  0.0  0.1 C A*D POSSIBLE MINING EVENT                      3
CCA Z 133219.85       P 0ID                                            5
CST Z 133220.38       P 1 U                                            8
CR2 Z 133220.61       P 0ID21.90       S 1                            10
CR2 NS1332                                 7.0 H0.05ML        1.0  200  10
CR2 EW1332                                13.6 H0.05ML        1.0  200  10
CCO Z 133220.87       P 1ED                                           11
CBW Z 133221.36       P 1 D                                           14
     -1
200688 ESKNET    ES 371           12.5       5.0DDG    LJOHNSTONEBRIDGE,D & G 1
       133242.88  313.05/ 592.53   2.8-0.1                55.219   -3.367    2
  4 15 298 0.07  0.0  0.0 C A*D                                          3
ESK Z 133245.81       P 0IU48.15       S 2EU                           15
ESK NS1332               IU               E 10.5H0.09ML        0.25 200  15
ESK EW1332               IU               EU11.8H0.08ML        0.25 200  15
ECK Z 133246.11       P 0IU48.27       S 1ID                           16
     -1
220688KEYW+LEEDS KW 008            25.0       5.0JAR    LYORK,N YORKSHIRE     1
        33558.16  463.17/ 447.21   6.7 1.7                53.917   -1.038    2
  5 20 269 0.11  4.7  3.9 D C*D                                          3
BUR Z 033602.02       P 1IU                                           20
HPK Z 033604.96       P 2E 10.20       S 3                            39
HPK NS0336                                12.2H0.16ML         1.0 200  39
HPK EW0336                                18.0H0.20ML         1.0 200  39
KBI Z 033611.72       P 2E 21.13       S 3                            81
     -1
230688 LOWNET    LN 597           12.5       5.0DG     LROSEWELL,LOTHIAN     1
        137 5.47  328.27/ 663.17   0.5 0.0                55.856   -3.146    2
  6  8 164 0.10  1.2  1.4 C B*C COALFIELD TYPE                            3
EDI Z 013707.43       P 1ID08.88       S 1ID 7.9H0.21M     0.25 200   8
EDI NS0137               ID               ID 6.6H0.21ML     0.25 200   8
EDI EW0137               E                ED 7.5H0.26ML     0.25 200   8
EBL Z 013708.42       P 2EU10.10       S 2EU                           11
EAU Z 013709.52       P 2ED12.60       S 3E                            19
     -1
250688 PAISLEY   PA 215           12.5       5.0DDG    LGREENOCK,STRATHCLYDE 1
       2125 6.43  224.68/ 676.37   2.4 1.3                55.948   -4.808    2
  8 12 247 0.28  1.7  1.5 C B*D                                          3
PMS Z 212509.20       P 0IU11.95       S 2ID                           12
PGB Z 212511.42       P 0IU15.73       S 1ID                           26
PGB NS2125                                 8.0H0.11ML        2.5  200  26
PGB EW2125                                 8.4H0.15ML        2.5  200  26
PCA Z 212513.89       P 2EU                                           44
PCO Z 212514.61       P 2ED                                           45
ESK Z 212527.00       P 4E 42.20       S 4E                           123
ESK NS2125               E                E  8.5H0.13ML        0.25 200 123
ESK EW2125               E                E  6.7H0.10ML        0.25 200 123
EAB Z 212514.00       P 1EU19.85       S 3E                            40
EAU Z 212520.95       P 2E 32.30       S 3E                            86
EBH Z 212521.60       P 2E 32.80       S 3E                            88
EDI Z 212524.08       P 2ED36.60       S 3E                           102
EDI NS2125               E                ED 8.0H0.10ML        0.25 200 102
EDI EW2125               E                E  4.4H0.19ML        0.25 200 102
     -1
060788HF/WALES   HF474                       5.0IMI    LMILFORD HAVEN,DYFED  1
         5 916.97  191.15/ 206.57   7.8 2.3                51.718   -5.024    2
 20 60 217 0.24  1.5  2.5 C B*D                                          3
HCG Z 050935.34       P 3E                                           116
HTR Z 050937.35       P 1E 52.53       S 3                           127
MCH Z 050939.81       P 2E 56.59       S 1                           143
MCH NS0509                                15.0H0.11ML        1.00 200 143
MCH EW0509                                12.5H0.12ML        1.00 200 143
HGH Z 050941.70       P 1E                                           154
HLM Z 050943.60       P 3E 62.26       S 3                           171
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SBD Z 050944.12       P 3E                                                179
HAE Z 050944.69       P 2E 63.38       S 3                                174
WLC Z 050942.61       P 1E 62.01       S 3                                166
YRH Z 050937.05       P 2E 51.89       S 4                                127
WVR Z 050941.13       P 1E                                                154
WBR Z 050940.07       P 1E                                                148
WST Z 050941.60       P 2E                                                157
WFB Z 050937.17       P 2E                                                127
HTL Z 050931.82       P 1E 42.03       S 1                                 89
HTL NS0509                                 10.3H0.12ML          1.0  200   89
HTL EW0509                                 17.1H0.13ML          1.0  200   89
HSA Z 050927.13       P 2E                                                60
     -1
080788 CORNWALL                                 5.0ABW    LENGLISH CHANNEL     1
       73126.81  281.29/ -52.55   8.0 2.0                  49.415   -3.637    2
 11106 200 0.35  5.4 14.4 D D*D                                              3
CGH Z 073148.00       P 2                                                 131
CBW Z 073148.23       P 2                                                 134
CCO Z 073148.43       P 2                                                 138
CCA Z 073149.80       P 2                                                 143
DYA Z 0731                59.15       S 3                                 115
JLP Z 073145.20       P 2  58.40       S 2                                 113
JVM Z 073144.00       P 2  56.00       S 2                                 106
CR2 NS0731                                 6.7 H0.09ML          1.0  200   138
CR2 EW0731                                 9.5 H0.07ML          1.0  200   138
JRS Z 073146.00       P 2  59.70       S 2                                 115
CR2 Z 073149.00       P 4                                                 138
     -1
080788 ESK/LN    ES 374           12.5       5.0DG/DWR LETTRICKBRIDGE,BORDERS 1
       165132.99  337.92/ 620.46   4.9 0.7                  55.474   -2.982    2
 10 22 127 0.11  1.0  2.1 C B*C                                              3
ESK Z 165137.36       P 0IU40.30       S 2EU 4.8H0.12M          1.0  200   23
ESK NS1651               ID              ED 8.3H0.10ML          1.0  200   23
ESK EW1651               ID              E  7.4H0.11ML          1.0  200   23
ECK Z 165139.21       P 0IU                                               34
XSO Z 165141.22       P 1IU                                               46
EBL Z 165139.19       P 2E 43.53       S 3E                     0.25 200   34
EDI Z 165142.32       P 3E 49.58       S 2E  4.3H0.19M          0.25 200   52
EDI NS1651               E               EU 4.5H0.18ML          0.25 200   52
EDI EW1651               E               EU 4.5H0.10ML          0.25 200   52
ESY Z 165142.36       P 2E 49.09       S 3E                                55
     -1
120788N WALES                                   5.0RITCHIELLLEYN PEN,GWYNEDD     1
        41736.22  238.86/ 344.21  23.5 1.7                  52.971   -4.400    2
 22  2  83 0.09  0.3  0.7 A A*A AFTERSHOCK                                    3
WCB Z 041744.65       P 3E 50.52       S 2                                 46
WCB NS0417                                 10.3H0.06ML          1.0  200   46
WCB EW0417                                 5.9 H0.10ML          1.0  200   46
YRC Z 041742.85       P 1ID                                               33
YRE Z 041740.0        P 1ID                                                2
WPM Z 041744.56       P 1IU50.29       S 3                                 46
WLF Z 041743.0        P 1ID47.68       S 2                                 36
WME Z 041744.8        P 1ID50.5        S 2                                 48
YLL Z 041741.52       P 1I 45.35       S 2                                 24
WLC Z 041744.08       P 1IU49.45       S 1                                 42
WLC NS0417                                 5.4 H0.1 ML          10.0 200   42
WLC EW0417                                 4.9 H0.1 ML          10.0 200   42
YRH Z 041741.42       P 1IU                                               22
WVR Z 041746.11       P 2E 52.06       S 4                                 57
WBR Z 041743.09       P 1IU47.95       S 2                                 36
WST Z 041742.13       P 1IU46.2        S 2                                 28
WFB Z 041743.7        P 1IU48.83       S 2                                 40
     -1
160788N WALES                                   5.0RITCHIELLLEYN PEN,GWYNEDD     1
        2 254.19  238.43/ 343.74  23.1 0.5                  52.966   -4.406    2
 15  2 116 0.11  0.5  0.6 B A*B AFTERSHOCK                                    3
WCB Z 020263.3        P 3E 68.6        S 3                                 47
WCB NS0202                                 3.1 H0.05ML          0.25 200   47
WCB EW0202                                 4.9 H0.06ML          0.25 200   47
YRC Z 0202                65.32       S 3                                 34
YRE Z 020258.11       P 2E 60.48       S 2                                  2
WLF Z 020261.11       P 2E 65.31       S 3                                 36
YLL Z 020259.57       P 1IU63.19       S 2                                 25
WLC Z 020262.00       P 4  67.31       S 2                                 42
WLC NS0202                                 2.9 H0.09ML          1.0  200   42
WLC EW0202                                 2.0 H0.12ML          1.0  200   42
YRH Z 020259.2        P 1IU62.67       S 2                                 21
WBR Z 020261.16       P 2E 65.8        S 3                                 37
WST Z 020260.11       P 3E 64.16       S 2                                 28
     -1
170788HF/KW                                     5.0IMI    LCOVENTRY,W MIDLANDS   1
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        132 7.78  429.18/ 288.48  10.2 0.4                  52.493   -1.570    2
  6 33 153 0.11  2.7  6.8 C C*C                                                 3
HAE Z 013221.60       P 3E                                                     84
MCH Z 013226.33       P 2E 39.10       S 3                                    112
CWF Z 013213.68       P 1IU23.44       S 4                                     33
CWF NS0132                                  4.7H0.08ML          0.25 200      33
CWF EW0132                                  2.8H0.07ML          0.25 200      33
KUF Z 013221.20       P 3E                                                     81
KSY Z 013222.51       P 3E                                                     85
MCH NS0132                                  3.0H0.10ML          0.25 200     112
MCH EW0132                                  2.5H0.09ML          0.25 200     112
      -1
190788N WALES                                5.0RITCHIELLLEYN PEN,GWYNEDD      1
        52028.92  238.19/ 345.57  23.9 0.1                  52.983   -4.410    2
 11  1 130 0.20  1.3  1.7 B B*B AFTERSHOCK                                      3
WLC Z 052036.79       P 2E 42.1        S 3                                     42
WLC NS0520                                  3.5 H0.05ML         0.25 200      42
WLC EW0520                                  3.5 H0.07ML         0.25 200      42
YRH Z 052034.29       P 1ID37.82       S 2                                     22
WST Z 052034.9        P 2E 39.03       S 2                                     28
YRE Z 052032.2        P 2E 35.5        S 3                                      1
WLF Z 0520                 40.6        S 3                                     34
YLL Z 052034.1        P 2E 38.09       S 3                                     24
      -1
200788 PA/LN     PA 219            12.5       5.0DG/DWR LLOCH LONG,STRATHCLYDE 1
        19 643.11  225.93/ 701.22   3.2 1.0                  56.172   -4.804    2
 15 29 255 0.14  1.1  1.3 C B*D                                                 3
PMS Z 190649.70       P 1ID54.60       S 2E                                    37
PGB Z 190651.18       P 2ED57.20       S 3E                                    45
PGB NS1906               E                E  8.9H0.14ML          0.25 200      45
PGB EW1906               E                E  7.1H0.11ML          0.25 200      45
PCO Z 190651.95       P 1IU58.60       S 3E                                    49
PCA Z 190654.05       P 2ED                                                    63
EAB Z 190648.63       P 1IU52.16       S 3E                0.25 200            29
ELO Z 190654.2        P 4E 64.3        S 3E                                    75
EBH Z 190656.74       P 2E 66.7        S 2E                                    81
EDI Z 190700.2        P 3E 12.60       S 3E  3.0H0.12M           0.25 200     105
EDI NS1907               E                E  4.1H0.15ML          0.25 200     105
EDI EW1907               E                E  2.6H0.18ML          0.25 200     105
EDU Z 190702.78       P 3E 16.70       S 3E                                   118
      -1
230788KEYWORTH   KW 013             12.0       5.0JAR    LWETTON,STAFFS        1
        02931.40  411.44/ 353.50  11.9 0.4                  53.078   -1.829    2
  5  7 219 0.00  0.1  0.2 C A*D                                                 3
KWE Z 002933.89       P 1E                                                      7
KBI Z 002936.70       P 1IU40.57       S 3                                     28
CWF Z 002940.30       P 2E 46.77       S 3                                     52
CWF NS0029                                  4.5H0.08ML          0.25 200      52
CWF EW0029                                  3.3H0.06ML          0.25 200      52
      -1
250788N WALES                                5.0RITCHIELLLEYN PEN,GWYNEDD      1
        95851.26  238.58/ 344.60  21.9 1.2                  52.974   -4.404    2
 15  2 113 0.14  0.6  0.9 B A*B AFTERSHOCK                                      3
WLC Z 095858.95       P 1ID64.32       S 2                                     42
WLC NS0958                                  6.0 H0.12ML         1.0  200      42
WLC EW0958                                  6.0 H0.10ML         1.0  200      42
YRH Z 095856.3        P 1IU59.88       S 1                                     22
WVR Z 095861.0        P 2E                                                     57
WBR Z 095858.0        P 2E 62.8        S 2                                     37
WST Z 095857.02       P 3E 61.05       S 2                                     28
YRE Z 095854.7        P 2E 56.95       S 2                                      2
WLF Z 095857.84       P 2E 62.6        S 2                                     35
YLL Z 095856.58       P 2E 60.28       S 2                                     24
      -1
250788N WALES                                5.0RITCHIELLLEYN PEN,GWYNEDD      1
        959 6.01  238.60/ 344.54  20.5 0.9                  52.974   -4.404    2
 14  2 113 0.26  1.1  1.9 B B*B AFTERSHOCK                                      3
WLC Z 095913.4        P 2E 18.70       S 3                                     42
WLC NS0959                                 10.0H0.17ML          0.25 200      42
WLC EW0959                                 10.5H0.10ML          0.25 200      42
YRH Z 095910.8        P 1IU14.35       S 2                                     22
WBR Z 095913.28       P 2E 17.26       S 2                                     37
WST Z 095911.52       P 2E 15.55       S 2                                     28
YRE Z 09598.9         P 2E 11.81       S 3                                      2
WLF Z 095911.95       P 3E 17.25       S 2                                     35
YLL Z 095911.6        P 2E 14.7        S 2                                     24
      -1
250788HEREFORD                               5.0IMI    LABERTILLERY,GWENT      1
        121822.44  320.16/ 201.41  14.4 1.0                  51.705   -3.156    2
  5 25 242 0.03  1.0  2.6 C B*D                                                 3
HGH Z 121827.44       P  ID                                                    25
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MCH Z 121828.69        P 1ED33.38        S 1                                    34
MCH NS1218                                      8.0H0.07ML          1.00 200   34
MCH EW1218                                      9.0H0.08ML          1.00 200   34
HTR Z 121829.96        P  ID                                                    42
HAE Z 121832.10        P 2E                                                     56
      -1
270788N WALES                                  5.0RITCHIELIRISH SEA              1
        24044.18  154.45/ 317.33  10.0 0.8                 52.697   -5.635     2
  6 39 192 0.24 19.3  6.0 D D*D                                                 3
ETA Z 024050.8         P 1IU55.9         S 3                                    39
YRH Z 024055.59        P 3E 64.0         S 2  6.2 H0.08ML          0.25 200   70
YRE Z 024059.18        P 3E 68.30        S 3  3.5 H0.08ML          0.25 200   88
      -1
280788 PAISLEY   PA 220             12.5       5.0DG     LGLENDARUEL,STRATHCLYDE1
       1253 7.55  199.75/ 685.45   2.6 0.9                 56.020   -5.213     2
  5 35 330 0.03  1.4  1.1 C B*D                                                 3
PMS Z 125313.95        P 1IU18.71        S 3ED                                  35
PGB Z 125316.77        P 1ID23.37        S 3E                                   52
PGB NS1253                                      7.1H0.10ML          0.25 200   52
PGB EW1253                                      9.2H0.09ML          0.25 200   52
PCO Z 125319.54        P 1IU                                                    70
      -1
290788KEYWORTH+  KW 014             25.0       5.0JAR    LHUDDERSFIELD,W YORKS  1
       1741 8.29  416.85/ 415.85  15.3 1.8                 53.639   -1.745     2
  6 26 164 0.02  0.5  1.7 B A*C                                                 3
KBI Z 174116.25        P 1ID                                                    45
KWE Z 174120.01        P 2E                                                     70
CWF Z 174125.43        P 3E 36.93        S 3                                    104
CWF NS1741                                      4.8H0.09ML          1.0 200    104
CWF EW1741                                      5.3H0.11ML          1.0 200    104
KSY Z 174126.14        P 3E                                                     108
BMY Z 174113.50        P 1IU                    5.0H0.10M          2.5 200    26
HPK Z 174114.90        P 1IU19.80        S 2E                                   36
HPK NS1741                                     16.0H0.10ML          2.5 200    36
HPK EW1741                                     15.0H0.10ML          2.5 200    36
      -1
300788 LOWNET+   LN 602            12.5       5.0DWR/DG LFORT WILLIAM,HIGHLAND 1
        75248.09  223.47/ 779.74   3.5 2.4                 56.876   -4.897     2
 21 69 149 0.28  1.3  3.8 C B*D                                                 3
EAB Z 075301.88        P 1IU11.32        S 2EU                                  84
ELO Z 075302.22        P 1IU12.17        S 3E                                   86
EBH Z 075306.36        P 1IU19.18        S 2E                                   110
EDU Z 075308.32        P 2EU22.57        S 2E                                   121
EDI Z 075312.65        P 2EU30.00        S 2E 17.9H0.18M          0.25 200   150
EBL Z 075315.29        P 2EU34.89        S 3E 12.8H0.20M          0.25 200   168
ESY Z 075316.48        P 2EU37.66        S 3E  9.5H0.14M          0.25 200   177
PCO Z 075306.27        P 1IU19.07        S 3EU                                  111
PMS Z 075307.27        P 1ID21.46        S 1IU                                  115
PGB Z 075308.18        P 1IU21.67        S 2EU                                  122
PGB NS0753                ED                ED 8.1H0.14ML          2.5  200   122
PGB EW0753                EU                EU 5.0H0.20ML          2.5  200   122
PCA Z 075310.08        P 3ED                                                    137
EDI NS0753                ED                EU11.0H0.15ML           1.0 200   150
EDI EW0753                EU                EU 7.9H0.25ML           1.0 200   150
KPL Z 075259.91        P 1ID71.70        S 4ED                                  69
KPL NS0752                                     11.0H0.10ML          2.5  200   69
KPL EW0752                                      8.5H0.10ML          2.5  200   69
      -1
300788HEREFORD   HF478                          5.0IMI    LHAY-ON-WYE,HER & WORC 1
       192126.76  324.37/ 236.70   6.7 0.5                 52.023   -3.102     2
  7  8 144 0.14  1.5  0.9 C B*C                                                 3
MCH Z 192128.86        P 0I 30.14        S 1                                    8
MCH NS1921                                     12.0H0.09ML          1.00 200   8
MCH EW1921                                     21.5H0.08ML          1.00 200   8
HTR Z 192129.73        P 0ID31.07        S 2                                    13
HAE Z 192133.35        P 1E                                                     38
HGH Z 192135.03        P 2E                                                     48
HCG Z 192135.53        P 1E                                                     51
      -1
310788HEREFORD   HF468                          5.0IMI    LHAY-ON-WYE,HER & WORC 1
        441 3.83  325.14/ 238.53   7.5-0.1                 52.040   -3.091     2
  5  8 164 0.25  2.2  1.0 C B*D                                                 3
MCH Z 044106.26        P 1E 07.31        S 1                                    8
MCH NS0441                                     15.0H0.08ML          0.25 200   8
MCH EW0441                                     17.0H0.09ML          0.25 200   8
HTR Z 044106.85        P 0ID08.24        S 2                                    13
HAE Z 044110.38        P 2E                                                     37
      -1
010888HEREFORD   HF478                          5.0IMI    LHAY-ON-WYE,HER & WORC 1
        35635.34  325.72/ 239.53   6.9 0.1                 52.049   -3.083     2
  5  8 167 0.03 11.1  7.0 D D*D                                                 3
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MCH Z 035637.42        P 0I 38.94        S 2                                    8
MCH NS0356                                    18.0H0.11ML          0.25 200     8
MCH EW0356                                    21.0H0.09ML          0.25 200     8
HTR Z 035638.20        P 0ID39.57        S 3                                   13
HAE Z 035641.92        P 3E                                                    37
      -1
010888 PAISLEY    PA 220             12.5        5.0DDG/DWRLOBAN,STRATHCLYDE     1
       142834.22  180.15/ 728.79  10.9 1.4                  56.400   -5.563     2
 12 79 306 0.20  2.1  2.7 C B*D                                                 3
PMS Z 142847.32        P 1IU57.14        S 3E                                  80
PGB Z 142849.72        P 2E 61.15        S 3EU                                 94
PGB NS1428                E                E  6.1H0.14ML          0.25 200    94
PGB EW1428                E                E  9.0H0.14ML          0.25 200    94
PCO Z 142850.94        P 2ED63.66        S 3EU                                102
EAB Z 142847.41        P 1EU56.85        S 2E 10.3H0.10M          0.25 200    79
ELO Z 142853.32        P 3E 65.91        S 2E  5.8H0.19M          0.25 200   115
EBH Z 142855.50        P 3E 69.81        S 2E  3.5H0.20M          0.25 200   128
EDU Z 142859.98        P 3E 74.78        S 3E                                 158
      -1
010888 MORAY                                    5.0BS      LULLAPOOL,HIGHLAND     1
       182625.40  214.58/ 898.36   2.4 1.0                  57.936   -5.132     2
  4 56 319 0.07  0.0  0.0 C A*D                                                 3
MVH Z 182635.30        P 1EU                                                   56
MLA Z 182644.05        P 2E 56.80        S 3                                  112
MCD Z 182645.10        P 2E 60.30        S 3                                  118
MCD NS1826                                    3.5 H0.09ML          0.25 200   118
MCD EW1826                                    4.5 H0.10ML          0.25 200   118
      -1
010888HEREFORD   HF478                          5.0IMI     LHAY-ON-WYE,HER & WORC 1
       202234.41  324.86/ 238.67   6.8-0.2                  52.041   -3.096     2
  5  8 164 0.18  7.9  3.8 D D*D                                                 3
MCH Z 202236.64        P 1E 37.84        S 2                                    8
MCH NS2022                                    12.0H0.09ML          0.25 200     8
MCH EW2022                                    15.0H0.07ML          0.25 200     8
HTR Z 202237.25        P 1E 38.61        S 3                                   13
HAE Z 202240.96        P 3E                                                    38
      -1
010888HEREFORD   HF478                          5.0IMI     LHAY-ON-WYE,HER & WORC 1
         2110 6.54  324.96/ 237.31   7.9 0.2                  52.029   -3.094     2
  5  7 177 0.07  2.8  1.6 D C*D                                                 3
MCH Z 211008.73        P 0I 10.10        S 1                                    7
MCH NS2110                                    22.0H0.10ML          0.25 200     7
MCH EW2110                                    25.0H0.10ML          0.25 200     7
HTR Z 211009.42        P 0ID11.49        S 3                                   13
HAE Z 211013.14        P 1E                                                    38
      -1
030888HEREFORD   HF479                          5.0IMI     LHAY-ON-WYE,HER & WORC 1
       141428.69  326.00/ 239.99   5.1 0.1                  52.053   -3.079     2
  5  8 170 0.09  2.3  3.8 C B*D                                                 3
MCH Z 141430.73        P 0I 31.98        S 1                                    8
MCH NS1414                                    22.5H0.08ML          0.25 200     8
MCH EW1414                                    20.0H0.09ML          0.25 200     8
HTR Z 141431.48        P 0ID32.79        S 3                                   13
HAE Z 141435.19        P 3E                                                    37
      -1
030888 LN/ESK     LN 603             12.5        5.0BS/DWR RSOUTHERN NORTH SEA     1
       144824.13  653.89 345.90    5.0 2.9                  52.947    1.784     2
 14389 337 0.65222.7240.7 D D*D                                                 3
ESY Z 144923.65        P 2EU60.67        S 3E                                 437
EBL Z 144925.52        P 2EU68.20        S 3E                                 444
EDI Z 144927.81        P 3E 74.00        S 2E  4.9H0.10M                      463
EBH Z 144932.05        P 2E                                                   502
ELO Z 144935.03        P 3E                                                   529
EAB Z 144936.94        P 3E 89.20        S 3E                                 536
XDE Z 144918.34        P 2EU57.85        S 3E                                 389
ESK Z 144924.25        P 3E 67.70        S 3E                                 420
ESK NS1449                E                E  8.4H0.11ML          0.25 200   420
ESK EW1449                E                E 10.6H0.13ML          0.25 200   420
EDI NS1449                E 74.00          S  EU 6.4H0.19ML       0.25 200   463
EDI EW1449                E                E  5.5H0.10ML          0.25 200   463
EAU Z 144929.02        P 3E                                                   469
      -1
030888 PAISLEY    PA 221             12.5        5.0DG      LISLAY,STRATHCLYDE     1
       163838.03  132.64/ 666.34   0.4 1.9                  55.816   -6.268     2
 15 96 330 0.33  5.3  3.7 D D*D                                                 3
PMS Z 163854.31        P 2ID66.74        S 2EU                                 96
PGB Z 163857.00        P 2EU71.01        S 2ED                                112
PGB NS1638                E                ED 7.0H0.11ML          1.0  200   112
PGB EW1638                E                E  7.0H0.11ML          1.0  200   112
PCA Z 163859.17        P 2EU                                                  127
PCO Z 163900.70        P 3E 16.40        S 3E                                 137
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EAB Z 163858.61        P 3ED75.10        S 2E                                  127
ELO Z 163906.42        P 2E 26.90        S 3E                                  175
EAU Z 163906.49        P 2E 29.08        S 3E                                  177
EBH Z 163907.43        P 3E 28.92        S 3E                                  179
EDI Z 163908.22        P 4E 31.60        S 3E  3.6H0.22M          0.25 200     193
EDI NS1639                E                E  5.1H0.40ML         0.25 200     193
EDI EW1639                E                E  4.7H0.32ML         0.25 200     193
      -1
030888N WALES                                  5.0RITCHIELIRISH SEA              1
       173258.55  152.11/ 339.10  10.0 0.9                 52.892   -5.686     2
  8 42 205 0.28  5.8  5.1 D D*D                                                 3
ECP Z 173314.0         P 2E 24.0         S 2                                    92
ETA Z 17335.6          P 1IU10.7         S 2                                    42
YRH Z 173310.49        P 3E 18.26        S 2  6.2 H0.09ML         0.25 200     71
YRE Z 173313.15        P 3E 22.92        S 3                                    85
      -1
030888NORTH SEA                                5.0BS     RNORTHERN NORTH SEA     1
       2126 1.30                  4.0 2.3                 59.655    1.672      2
 17168 180 0.45  3.6  4.4 D C*D                                                 3
SUE Z 212636.00        P 1I 59.50        S 3I                                  231
HYA Z 212644.90        P 1E 74.20        S 3I                                  301
ODD1Z 212641.10        P 1E 70.40        S 3I                                  280
KMY Z 212634.00        P 1I 54.90        S 3I                                  209
ASK Z 212634.00        P 1I 56.40        S 3I                                  217
BLS1Z 212643.70        P 1I 72.90        S 3I                                  294
LRW Z 212628.60        P 1EU46.70        S 3E                                  168
LRW NS2126                               08.0H0.12ML          01.0 200     168
LRW EW2126                               08.5H0.09ML          01.0 200     168
SAN Z 212627.51        P 1E 46.61        S 3E                                  168
WAL Z 212631.10        P 2E                                                    195
      -1
040888HEREFORD   HF479                         5.0IMI    LHAY-ON-WYE,HER & WORC 1
       1042 7.54  326.95/ 240.97   5.3 0.5                 52.062   -3.066     2
  4  9 177 0.06  0.0  0.0 C A*D                                                 3
MCH Z 104209.63        P 0I 10.92        S 1                                     9
MCH NS1042                               12.0H0.08ML          1.00 200      9
MCH EW1042                               20.2H0.08ML          1.00 200      9
HTR Z 104210.43        P 1ID                                                  14
HAE Z 104214.04        P 3E                                                   36
      -1
040888HEREFORD   HF479                         5.0IMI    LHAY-ON-WYE,HER & WORC 1
       191512.04  326.79/ 241.39   2.5 0.0                 52.066   -3.068     2
  5  9 179 0.06  0.4  0.6 C A*D                                                 3
MCH Z 191514.09        P 0I 15.38        S 1                                     9
MCH NS1915                               22.0H0.08ML          0.25 200      9
MCH EW1915                               16.7H0.08ML          0.25 200      9
HTR Z 191514.87        P 1ID16.30        S 3                                   14
HAE Z 191518.58        P 2E                                                   36
      -1
070888HEREFORD                                 5.0IMI    LHAY-ON-WYE,HER & WORC 1
        14558.01  326.05/ 239.08   6.7 0.6                 52.045   -3.078     2
  6  8 143 0.07  1.5  0.9 C B*C                                                 3
MCH Z 014600.10        P 0I 01.37        S 1                                     8
MCH NS0146                               16.5H0.09ML          1.00 200      8
MCH EW0146                               18.0H0.09ML          1.00 200      8
HTR Z 014600.87        P 0ID02.24        S 3                                   14
HAE Z 014604.55        P 1E                                                   37
HGH Z 014606.31        P 3E                                                   49
HCG Z 014606.78        P 3E                                                   50
      -1
070888N WALES                                  5.0RITCHIELIRISH SEA              1
       12 944.38  155.54/ 329.50   4.5 1.6                 52.807   -5.628     2
 30 67 118 0.43  0.9  1.8 D C*D                                                 3
WLC Z 120964.52        P 3E 79.65        S 3                                   126
YRH Z 120955.85        P 2E                                                   67
WVR Z 120966.3         P 3E 81.49        S 3                                   136
WBR Z 120963.49        P 3E 77.15        S 3                                   117
WST Z 120963.03        P 2E                                                   112
WFB Z 120962.42        P 1IU75.1         S 2                                   108
DCN Z 12104.9          P 2E 19.6         S 2                                   126
DLE Z 120957.7         P 2E 67.4         S 2                                    82
DMU Z 12108.5          P 2E 25.3         S 2                                   149
ECP Z 120958.0         P 2E 69.2         S 2                                    86
WCB Z 120960.55        P 2E 71.65        S 2                                    96
WCB NS1209                               10.0H0.12ML          0.25 200      96
WCB EW1209                               9.0 H0.11ML          0.25 200      96
YRC Z 120959.0         P 1IU68.9         S 2                                    86
YRE Z 120958.5         P 1IU                                                  83
WPM Z 120965.92        P 3E                                                  126
WME Z 120962.88        P 2E 75.33        S 3                                   110
WLF Z 120960.7         P 3E 71.75        S 3                                    99
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WIM Z 120969.92        P 2E 88.39        S 2                                  162
WLC NS1209                                      5.0 H0.09ML          1.0  200  126
WLC EW1209                                      5.3 H0.08ML          1.0  200  126
      -1
070888HEREFORD   HF479                            5.0IMI     LHAY-ON-WYE,HER & WORC 1
       1218 0.26  325.40/ 238.07   7.2 1.0                      52.036   -3.088    2
  7  7 140 0.06  0.6  0.4 B A*C                                                    3
MCH Z 121802.40        P 0I 03.69        S 1                                    7
MCH NS1218                                      16.0H0.09ML          2.50 200    7
MCH EW1218                                      19.0H0.08ML          2.50 200    7
HTR Z 121803.16        P 0ID04.98        S 3                                   13
HAE Z 121806.86        P 1ID                                                   37
HGH Z 121808.57        P 0ID                                                   48
HCG Z 121809.02        P 3E                                                    50
      -1
070888N WALES                                     5.0RITCHIELIRISH SEA            1
       172631.95  153.89/ 329.49   6.8 1.4                      52.806   -5.652    2
 30 40 118 0.40  0.9  1.9 C C*C                                                    3
WCB Z 172648.25        P 2E 59.7         S 3                                   98
WCB NS1726                                      8.1 H0.1 ML          0.25 200   98
WCB EW1726                                      7.3 H0.15ML          0.25 200   98
YRC Z 172646.59        P 2IU57.05        S 2                                   88
YRE Z 172646.06        P 2E 56.29        S 2                                   85
WME Z 172650.22        P 3E                                                   112
WLF Z 172648.22        P 2E                                                   100
WIM Z 172657.49        P 2E                                                   163
WLC Z 172652.16        P 2E 67.12        S 2                                  128
YRH Z 172643.43        P 1ID                                                   69
WVR Z 172654.25        P 2E 70.1         S 3                                  138
WBR Z 172651.3         P 3E 65.3         S 2                                  119
WST Z 172650.56        P 3E 63.92        S 3                                  114
WFB Z 172649.82        P 2E 62.53        S 2                                  110
DCN Z 172652.5         P 2E 66.5         S 2                                  124
DLE Z 172645.5         P 1ID55.0         S 2                                   80
DMU Z 172655.3         P 2E 72.5         S 2                                  148
ECP Z 172645.6         P 2E 56.4         S 2                                   85
ETA Z 172638.5         P 1IU43.5         S 2                                   40
WLC NS1726                                      11.5H0.09ML          0.25 200  128
WLC EW1726                                      12.9H0.08ML          0.25 200  128
      -1
070888 ESKNET    ES 378           12.5        5.0DG     LLANGHOLM,D & G          1
       185434.08  326.70/ 585.36  11.6-0.4                     55.157   -3.151    2
  4  3 320 0.03  0.0  0.0 C A*D                                                    3
ECK Z 185436.23        P 0ID37.90        S 2ED                                  3
ESK Z 185437.92        P 0ID40.65        S 2ED                                 18
ESK NS1854               ID                EU 4.5H0.09ML          0.25 200   18
ESK EW1854               ID                ED 5.6H0.08ML          0.25 200   18
      -1
070888HEREFORD                                    5.0IMI     LHAY-ON-WYE,HER & WORC 1
       223247.61  324.78/ 236.05   8.6 0.6                      52.017   -3.096    2
  5  7 147 0.06  1.9  1.2 C B*D                                                    3
MCH Z 223249.84        P 0I 51.16        S 1                                    7
MCH NS2232                                      15.5H0.09ML          1.00 200    7
MCH EW2232                                      21.0H0.10ML          1.00 200    7
HTR Z 223250.61        P 0ID                                                   14
HAE Z 223254.28        P 1E                                                    38
HGH Z 223255.68        P 3E                                                    47
      -1
070888HEREFORD   HF479                            5.0IMI     LHAY-ON-WYE,HER & WORC 1
       232350.51  325.13/ 237.28   7.6 0.6                      52.028   -3.091    2
  5  7 154 0.06  1.8  1.5 C B*D                                                    3
MCH Z 232352.65        P 0I 53.91        S 1                                    7
MCH NS2323                                      17.5H0.10ML          1.00 200    7
MCH EW2323                                      17.5H0.10ML          1.00 200    7
HTR Z 232353.43        P 0ID                                                   14
HAE Z 232357.15        P 1E                                                    37
HGH Z 232358.78        P 3E                                                    48
      -1
080888N WALES                                     5.0RITCHIELIRISH SEA            1
        23314.57  153.92/ 326.16   5.7 0.7                      52.776   -5.649    2
 17 39 132 0.21  0.7  1.9 C B*C                                                    3
YRH Z 023325.7         P 2E 34.03        S 3                                   69
DCN Z 023335.5         P 1I 50.2         S 3                                  126
DLE Z 023328.3         P 1ID37.7         S 2                                   83
DMU Z 023338.9         P 1ID55.6         S 2                                  151
ECP Z 023328.4         P 2E 39.5         S 4                                   83
ETA Z 023321.2         P 1IU26.1         S 2                                   39
YRE Z 023328.98        P 2E 39.0         S 2                                   85
YRC Z 023329.30        P 2E 39.79        S 3                                   89
WCB Z 023331.15        P 3E 42.94        S 3                                  100
WCB NS0233                                      3.5 H0.05ML          0.25 200  100
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WCB EW0233                                  2.6 H0.11ML          0.25 200  100
     -1
080888N WALES                                 5.0RITCHIELIRISH SEA            1
       24312.62  153.90/ 326.92   6.1 1.4                52.783   -5.650     2
 21 39 120 0.18  0.5  1.2 C B*C                                               3
WLC Z 024333.19       P 2E 48.38       S 3                                  128
YRH Z 024324.3        P 1ID                                                  69
WFB Z 024330.62       P 2E 43.32       S 2                                  110
DCN Z 024333.4        P 2E 48.4        S 4                                  126
DLE Z 024326.3        P 1ID35.7        S 2                                   82
DMU Z 024337.0        P 2E 54.2        S 3                                  150
ECP Z 024326.5        P 2E 37.6        S 4                                   83
ETA Z 024319.3        P 1IU24.3        S 2                                   39
WCB Z 024328.82       P 3E 40.58       S 3                                   99
WCB NS0243                                  6.4 H0.2 ML          0.25 200   99
WCB EW0243                                  6.5 H0.2 ML          0.25 200   99
YRC Z 024327.40       P 2E 37.65       S 2                                   89
YRE Z 024327.09       P 2E 36.90       S 2                                   85
WME Z 024331.31       P 2E                                                  113
WLF Z 024329.22       P 2E                                                  101
WLC NS0243                                  9.5 H0.08ML          0.25 200  128
WLC EW0243                                  10.0H0.07ML          0.25 200  128
     -1
080888HEREFORD   HF479                        5.0IMI    LHAY-ON-WYE,HER & WORC 1
       192043.58  325.37/ 238.87   7.0 0.5                52.043   -3.088     2
  4  8 163 0.06  0.0  0.0 C A*D                                               3
MCH Z 192045.75       P 1E 47.06       S 1                                    8
MCH NS1920                                  14.7H0.09ML          1.00 200    8
MCH EW1920                                  15.0H0.09ML          1.00 200    8
HTR Z 192046.38       P 1E                                                   13
HAE Z 192050.23       P 2E                                                   37
     -1
100888HEREFORD   HF479                        5.0IMI    LHAY-ON-WYE,HER & WORC 1
        21941.62  324.22/ 234.85   8.4 0.7                52.007   -3.104     2
  5  7 152 0.07  1.9  1.8 C B*D                                               3
MCH Z 021943.89       P 0I 45.16       S 1                                    7
MCH NS0219                                  20.0H0.10ML          1.00 200    7
MCH EW0219                                  22.5H0.10ML          1.00 200    7
HTR Z 021944.64       P 0ID                                                  14
HAE Z 021948.37       P 1E                                                   38
HGH Z 021949.56       P 3E                                                   46
     -1
110888HF/WF                                  5.0IMI    LHAY-ON-WYE,HER & WORC 1
       153423.59  325.55/ 238.05   7.7 1.4                52.035   -3.085     2
 15  7 135 0.10  0.5  0.7 B A*B                                               3
MCH Z 153425.74       P 0I 27.08       S 1                                    7
MCH NS1534                                   7.5H0.10ML          10.0 200    7
MCH EW1534                                   8.5H0.09ML          10.0 200    7
HTR Z 153426.48       P 0ID27.95       S 3                                   14
HAE Z 153430.15       P 0ID34.90       S 3                                   37
HGH Z 153431.89       P 0ID                                                  48
HCG Z 153432.38       P 2ED                                                  50
HLM Z 153432.77       P 2E                                                   55
WVR Z 153438.89       P 2ED                                                  92
WFB Z 153439.72       P 1E                                                   97
WBR Z 153441.32       P 1E                                                  107
WLC Z 153442.73       P 3E 55.92       S 1                                  117
WLC EW1534                                  12.0H0.12ML          0.25 200  117
YRH Z 153445.87       P 3E                                                  138
     -1
110888HEREFORD   HF480                        5.0 IMI   LHAY-ON-WYE,HER & WORC 1
       153918.07  328.09/ 239.17   9.2 0.7                52.046   -3.049     2
 13  6 124 0.31  2.1  2.1 C C*B                                               3
MCH Z 153920.39       P 0I 21.59       S 1                                    6
MCH NS1539                                   4.5H0.02ML          10   200    6
MCH EW1539                                   4.0H0.06ML          10   200    6
HAE Z 153924.65       P 1ID27.91       S 2                                   34
HCG Z 153926.90       P 3I                                                   52
HGH Z 153926.41       P 2I                                                   48
HTR Z 153921.03       P 1ID                                                  16
HLM Z 153927.28       P 3E                                                   54
WLC Z 153937.31       P 3E 50.50       S 2                                  117
WVR Z 153933.36       P 2I                                                   92
WBR Z 153935.90       P 2I                                                  107
WFB Z 153934.30       P 2I                                                   98
WLC EW1539                                   5.0H0.10ML          0.25 200  117
     -1
120888 LOWNET    LN 604            12.5      5.0DWR    LKIRKCALDY,FIFE         1
       232537.29  331.67/ 690.38   0.2 0.0                56.101   -3.099     2
  8 21 181 0.06  0.5  0.5 C A*D OFFSHORE,COALFIELD TYPE                        3
EDI Z 232541.59       P 1ED44.85       S 2IU 3.3H0.30M      0.25 200   21
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EDI NS2325              EU              IU 4.6H0.30ML          0.25 200   21
EDI EW2325              E               E  3.0H0.20ML          0.25 200   21
EBH Z 232543.30       P 1ID47.70      S 3E                                30
EAU Z 232544.20       P 3E                                                36
ESY Z 232544.31       P 3E                                                37
EBL Z 232544.45       P 2E 49.70      S 3E                                37
     -1
140888 ESK       ES               12.5       5.0DG     LAMBLESIDE,CUMBRIA     1
       93316.79  330.00/ 511.50   0.8 1.7                54.494   -3.081    2
  9 27 219 0.31  4.1  3.7 D C*D                                             3
XDE Z 093321.82       P 1IU26.40      S 3E                                27
XAL Z 093329.13       P 2ED                                               69
ECK Z 093330.59       P 2EU39.90      S 2ED                               77
ESK Z 093332.99       P 2ID43.76      S 2EU                               92
ESK NS0933                                4.0H0.11ML          1.0  200   92
ESK EW0933                                5.3H0.16ML          1.0  200   92
EBL Z 093340.91       P 2E 57.29      S 3E                               143
EAU Z 093342.31       P 2E 58.70      S 3E                               152
EDI Z 093343.78       P 2E 60.53      S 3E  2.5H0.28M          0.25 200  159
EDI NS0933              E               E  8.0H0.18ML          0.25 200  159
EDI EW0933              E               E  5.3H0.16ML          0.25 200  159
ESY Z 093344.17       P 2E 62.22      S 3E                               161
EBH Z 093349.67       P 2E 71.90      S 3E                               197
     -1
160888 PAISLEY   PA 222            12.5       5.0DG     LGOUROCK,STRATHCLYDE   1
       9 627.64  223.20/ 675.77   0.2 1.0                55.942   -4.831    2
  7 12 255 0.25  2.2  1.7 C B*D                                             3
PMS Z 090630.51       P 0IU33.22      S 2IU                               12
PGB Z 090632.78       P 0IU37.10      S 2ID                               27
PGB NS0906              ID              ID10.2H0.10ML          1.0  200   27
PGB EW0906              IU              ID12.9H0.14ML          1.0  200   27
PCA Z 090635.27       P 2EU                                               45
EAB Z 090635.46       P 2EU41.45      S 3E                                41
EAU Z 090642.50       P 3E 52.13      S 3E                                87
EBH Z 090643.12       P 3ED55.01      S 3E                                89
ELO Z 090644.0        P 4E 55.3       S 3E                                91
EDI Z 090646.0        P 4E 58.5       S 3E  2.0H0.10ML          0.25 200  103
EDI NS0906              E               E  3.2H0.18ML          0.25 200  103
EDI EW0906              E               E  3.5H0.09ML          0.25 200  103
     -1
180888KEYWORTH   KW 017            25.0       5.0JAR    LOLLERTON,NOTTS        1
      203614.91  465.29/ 365.19   2.6 0.8                53.180   -1.023    2
  5 35 205 0.10  0.5  0.9 C A*D COALFIELD TYPE                               3
KBI Z 203621.15       P 3E                                                35
KSY Z 203621.72       P 3E                                                38
CWF Z 203624.29       P 3E 31.05      S 3                                 53
CWF NS2036                                5.0H0.13ML          0.25 200   53
CWF EW2036                                5.5H0.11ML          0.25 200   53
KWE Z 203625.18       P 3E                                                58
     -1
190888N WALES                                  5.0RITCHIELLLEYN PEN,GWYNEDD     1
       64125.47  240.49/ 342.94  24.9 2.1              3+   52.960   -4.375    2
 19  4  87 0.08  0.3  0.8 A A*A AFTERSHOCK.FELT ANGLESEY,  CAERNARVON           3
WCB Z 064134.23       P 1ID40.19      S 2                                 48
WCB NS0641                            4.1 H0.06ML          10.0 200   48
WCB EW0641                            4.1 H0.1 ML          10.0 200   48
YRC Z 064132.4        P 1ID                                               35
YRE Z 064129.42       P 1ID                                                4
WPM Z 064133.9        P 1IU                                               46
WLF Z 064132.5        P 1ID37.29      S 2                                 37
YLL Z 064131.04       P 1IU                                               24
WLC Z 064133.15       P 1IU38.40      S 1                                 40
WLC NS0641                            7.0 H0.07ML          10.0 200   40
WLC EW0641                            6.8 H0.11ML          10.0 200   40
YRH Z 064130.88       P 1IU                                               22
WVR Z 064135.13       P 1IU                                               55
WBR Z 064132.26       P 1IU36.75      S 2                                 34
WST Z 064131.3        P 1IU35.32      S 2                                 26
WFB Z 064132.72       P 2E 37.79      S 2                                 38
WME Z 064134.2        P 1IU                                               49
     -1
200888 ESK       ES 380           12.5       5.0DG     LJEDBURGH,BORDERS      1
       1 417.91  364.49/ 625.66   2.3 0.6                55.523   -2.563    2
  9 20 141 0.09  0.4  0.7 B A*C                                             3
XSO Z 010421.73       P 0IU24.72      S 2E                                20
ESK Z 010426.42       P 1IU32.40      S 3E                                47
ESK NS0104                            7.1H0.14ML          0.25 200   47
ESK EW0104                            4.0H0.15ML          0.25 200   47
ESY Z 010425.90       P 1E 30.52      S 4E                                44
EBL Z 010426.33       P 4E 30.70      S 2E                                41
EDI Z 010429.11       P 4E 36.69      S 2E  1.0H0.10M          0.25 200   59
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EDI NS0104              E              E  2.9H0.10ML          0.25 200   59
EDI EW0104              E              E  1.7H0.09ML          0.25 200   59
EAU Z 010430.02       P 3E 38.02       S 3E                              67
EBH Z 010435.25       P 3E 47.00       S 3E                             100
     -1
210888 LOWNET    LN 605            12.5       5.0DWR    LKIRKCALDY,FIFE      1
       185710.53  331.68/ 690.46   0.2 0.1                56.102   -3.099    2
  7 21 182 0.09  0.7  0.8 C A*D OFFSHORE,COALFIELD TYPE                       3
EDI Z 185714.90       P 1IU18.12       S 2E  3.4H0.19M          0.25 200   21
EDI NS1857              ED              EU 5.8H0.20ML          0.25 200   21
EDI EW1857              E               E  5.0H0.18ML          0.25 200   21
EBH Z 185716.44       P 1EU21.09       S 2EU                             30
EAU Z 185717.48       P 3E                                               36
ESY Z 185717.60       P 2E 22.40       S 4E                              37
EBL Z 185717.74       P 2EU                                              37
     -1
270888KEYWORTH+  KW 018             25.0       5.0JAR    LSHANGTON,LEICS      1
       155926.17  472.01/ 296.19   3.6 0.8                52.558   -0.938    2
  5 32 229 0.06  0.7  0.8 C A*D                                             3
CWF Z 155932.07       P 0ID36.02       S 3E                              32
CWF NS1559                            7.1H0.07ML           1.0 200   32
KUF Z 155933.03       P 0IU                                              38
KSY Z 155935.22       P 1IU                                              51
KWE Z 155940.04       P 3E                                               80
KBI Z 155941.45       P 3E                                               87
HAE Z 155947.50       P 4IU                                             124
MCH Z 155953.21       P 4E 69.30       S 4E                             154
MCH NS1559                           10.9H0.11M          0.25 200   154
MCH EW1559                           11.5H0.11M          0.25 200   154
HGH Z 155953.68       P 4E                                              164
     -1
290888 CORNWALL                        5.0ABW    LPERRANPORTH,CORNWALL  1
       181631.37  168.86/  55.07   6.3-0.1                50.350   -5.250    2
  6 18 342 0.00  0.2  0.5 C A*D                                             3
CST Z 181634.73       P 0ID                                              18
CCA Z 181634.72       P 0ID                                              18
CR2 Z 181635.19       P 1 D38.15       S 1                               21
CR2 NS1816                           2.3 H0.05ML          1.0  200   21
CR2 EW1816                           4.6 H0.06ML          1.0  200   21
CCO Z 181635.70       P 0 D                                              24
CBW Z 181635.75       P 0 D                                              24
     -1
310888N WALES                          5.0RITCHIELLLEYN PEN,GWYNEDD      1
        71651.41  239.20/ 343.33  20.0 0.8                52.963   -4.394    2
 13  3  87 0.12  0.7  0.8 A A*A AFTERSHOCK                                  3
YRE Z 071654.75       P 1ID56.85       S 1                                3
YLL Z 071656.64       P 1IU60.16       S 2                               25
WLC Z 071658.75       P 1ID64.0        S 2                               42
WLC NS0716                           7.0 H0.14ML          0.25 200   42
WLC EW0716                           12.5H0.10ML          0.25 200   42
YRH Z 071656.12       P 1IU59.6        S 2                               21
WBR Z 0716                62.49       S 2                               36
WST Z 071656.95       P 1I 60.99       S 2                               27
WFB Z 071658.70       P 3E 63.1        S 3                               39
     -1
999999                              2.5       5.0DG     L                    1
XSO Z 010421.73       P 0IU24.72       S 2E
ESK Z 010426.42       P 1IU32.40       S 3E
ESK NS0104                           7.1H0.14ML          0.25 200
ESK EW0104                           4.0H0.15ML          0.25 200
     -1
020988 LOWNET    LN 607    621     25.0       5.0DWR    LROSEWELL,LOTHIAN    1
        41738.87  328.37/ 663.71   1.1-0.1                55.861   -3.144    2
 14  0 166 0.07  0.3  0.1 B A*C COALFIELD TYPE                               3
RHC Z 041739.13       P 0IU                                               0
RGH Z 041739.14       P 0ID                                               1
RCA Z 041739.24       P 0ID39.58       S 2E                               1
RCH Z 041739.25       P 0ID39.56       S 2E                               1
RMM Z 041739.35       P 1EU                                               1
RRD Z 041739.55       P 2EU                                               2
EDI Z 041740.70       P 1ED42.08       S 2EU 7.5H0.18M          .25  200    7
EDI NS0417              ED              EU 7.2H0.19ML          .25  200    7
EDI EW0417              E               EU 7.4H0.19ML          .25  200    7
EBL Z 041741.30       P 2E 43.21       S 3E                              12
EAU Z 041742.89       P 1EU45.82       S 3E                              20
     -1
040988HEREFORD   HF483                 5.0 NSH   LHAY-ON-WYE,HER & WORC 1
        32241.42  323.52/ 234.07  10.2 0.0                51.999   -3.114    2
  4  8 218 0.02  0.0  0.0 C A*D                                             3
MCH Z 032243.75       P 3E 45.56       S                                  8
MCH NS0322                           05.0H0.06ML          1    200    8
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MCH EW0322                                  06.8H0.08ML          1    200    8
HTR Z 032244.55       P 3E                                                  14
HAE Z 032248.38       P 3E                                                  39
      -1
100988 ESKNET    ES 383            12.5       5.0DG     LJOHNSTONEBRIDGE,D & G 1
       161425.83  314.20/ 592.81   1.5 0.5                 55.222   -3.349    2
  4 14 293 0.07  0.0  0.0 C A*D                                              3
ESK Z 161428.78       P 0IU31.10       S 1ED                                14
ESK NS1614               IU               E  7.0H0.12ML          1.0 200    14
ESK EW1614               E                E  8.4H0.12ML          1.0  200   14
ECK Z 161429.07       P 0IU31.22       S 1ED                                15
      -1
120988NORTH SEA                             5.0BS     RNORTHERN NORTH SEA    1
       125757.13                 5.6 1.4                 59.106    2.849    2
  5230 317 0.10 23.3 24.5 D D*D                                              3
HYA Z 125838.80       P 1I 70.30       S 3E                               295
ODD Z 125832.10       P 1I 57.90       S 3E                               236
BLS1Z 125831.40       P 1I 56.20       S 3E                               230
      -1
120988 LOWNET    ET 141            10.0       5.0DG     LAMBLESIDE,CUMBRIA     1
       142310.62  336.28/ 502.69  15.0 3.2             4+   54.415   -2.982    2
 30 34  84 0.22  0.7  0.8 C B*C FELT AMBLESIDE,CONISTON, WINDERMERE,KENDAL     3
WLC Z 142335.91       P 1IU54.60       S 2ED                              167
EAU Z 142335.61       P 2EU52.12       S 3E                               162
ESY Z 142335.96       P 2E 52.60       S 3E                               169
EDI Z 142336.56       P 3E 54.70       S 3E  7.1H0.35M          2.5 200   168
EAB Z 142342.22       P 3E                                                215
EBH Z 142341.06       P 3E 64.68       S 3E                               207
ELO Z 142344.66       P 3E 73.20       S 3E                               233
EDU Z 142345.45       P 3E                                                237
HPK Z 142327.5        P 2E 39.5        S 3E                               102
ESK Z 142327.36       P 2ED39.15       S 1ED                              101
XDE Z 142317.01       P 0ID                                               34
BMY Z 142326.5        P 2E 38.1        S 3E                               97
EDI EW1423            P E              S  E  9.8H0.30ML          2.5 200   168
EDI NS1423            P E              S  E  7.0H0.48ML          2.5 200   168
KBI Z 142335.17       P 2E                                                161
KWE Z 142337.23       P 3E                                                173
CWF Z 142342.48       P 3E                                                217
XAL Z 142321.58       P 0IU                                               70
ECK Z 142324.72       P 2ED34.76       S 2ED                              86
XSO Z 142330.76       P 1IU45.95       S 3E                               129
WST Z 142336.71       P 1IU                                               174
WFB Z 142340.89       P 1IU63.25       S 3E                               205
      -1
120988 LOWNET    LN 608   1791      12.5       5.0DWR    LAMBLESIDE,CUMBRIA     1
       142329.35  334.35/ 500.75   7.6 3.0             4+   54.398   -3.011    2
 11 88 315 0.38  4.0  3.0 D C*D FELT AMBLESIDE,CONISTON, WINDERMERE,KENDAL     3
EBL Z 142355.0        P 4E 71.42       S 2E                    2.5 200   153
EAU Z 142355.0        P 4E 72.10       S 3E                               164
ESY Z 142355.5        P 4E 72.40       S 4E                               171
EDI Z 142357.4        P 4E 74.82       S 2E  6.4H0.32M          2.5 200   170
EDI NS1423               E                E  7.2H0.25ML          2.5 200   170
EDI EW1423               E                E  7.4H0.21ML          2.5 200   170
EBH Z 142401.3        P 4E 24.32       S 3E                               208
EAB Z 142402.4        P 4E                                                216
ELO Z 142403.7        P 4E 32.56       S 3E                               235
EDU Z 142404.6        P 4E                                                239
ESK Z 142346.7        P 4E 58.55       S 2ED                              103
ECK Z 142344.4        P 4E 54.48       S 2ED                              88
XSO Z 142350.5        P 4E 65.70       S 3E                               131
      -1
120988 ESK       ES 383            12.5       5.0DG     LAMBLESIDE,CUMBRIA     1
       142847.74  339.82/ 498.74   7.5 1.8             2+   54.380   -2.927    2
  9 39 250 0.19  2.5  4.4 C B*D FELT AMBLESIDE,CONISTON, WINDERMERE           3
XDE Z 142854.71       P 1IU59.45       S 3E                               39
XAL Z 142859.28       P 1ID                                               71
ECK Z 142902.80       P 2ED13.22       S 3E                               90
ESK Z 142905.30       P 2EU16.80       S 3E                               106
ESK NS1429               E                E  4.6H0.13ML          1.0  200   106
ESK EW1429               EU               E  6.7H0.12ML          1.0  200   106
XSO Z 142909.00       P 3E 24.20       S 3E                               131
      -1
130988KEYWORTH+  KW 020            12.5       5.0JAR    LALBRIGHTON,LINCS      1
        04727.99  379.37/ 304.41   7.5 0.8                 52.637   -2.305    2
  9 42 145 0.25  1.3  3.8 C B*C                                              3
KWE Z 004737.00       P 2E 43.46       S 3                                53
CWF Z 004739.47       P 3E 47.50       S 3                                68
CWF EW004739.47       P 3E 47.50       S 3   3.9H0.09ML          0.25 200   68
KBI Z 004742.70       P 2EU                                               87
HLM Z 004735.19       P 2EU40.30       S 3                                42
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HAE Z 004740.02        P 3E                                                  69
MCH Z 004742.63        P 4E 52.44        S 3                                 85
MCH NS0047                                    3.7H0.13ML          0.25 200   85
MCH EW0047                                    3.1H0.12ML          0.25 200   85
      -1
130988NORTH SEA                                5.0BS     RNORTHERN NORTH SEA    1
       11 420.21                  15.0 2.3                 58.122    1.509     2
  8337 334 0.15 52.2 69.9 D D*D                                                3
SUE Z 110511.70        P 1I 49.70        S 3I                               375
HYA Z 110518.40        P 1I 61.20        S 3E                               430
ODD Z 110509.90        P 1I 45.80        S 3I                               360
ASK Z 110506.80        P 1I 41.40        S 3I                               337
      -1
130988 CORNWALL                                5.0ABW    LCONSTANTINE,CORNWALL  1
       143116.53  173.02/  27.76   5.6 0.0                 50.106   -5.175     2
  5  4 331 0.01  0.4  0.2 C A*D                                                 3
CCO Z 143117.70        P 0ID                                                  4
CR2 Z 143118.05        P 0IU19.24        S 1                                  7
CR2 NS1431                                   4.0 H0.05ML          1.0  200    7
CR2 EW1431                                  14.0H0.06ML           1.0  200    7
CCA Z 143118.48        P 0 D                                                 10
CST Z 143118.53        P 0 D                                                 10
      -1
150988KEYWORTH   KW 020             12.5       5.0JAR    LCAYTHORPE,LINCS       1
       194016.16  495.02/ 348.45  17.4 0.4                 53.025   -0.583     2
  4  7 255 0.00  0.0  0.0 C A*D                                                 3
KSY Z 194019.38        P 1ID21.73        S 3   6.3H0.11ML           1.0 200    7
KUF Z 194024.52        P 2EU                                                 47
KWE Z 194029.97        P 3E                  1.9H0.11ML          0.25 200   85
      -1
170988N WALES                                  5.0RITCHIELLLEYN PEN,GWYNEDD     1
        1 957.90  238.76/ 344.82  23.9 1.2                 52.976   -4.402     2
 21  2  81 0.15  0.5  1.1 B B*A AFTERSHOCK                                      3
WLC Z 01105.89         P 1ID11.12        S 1                                  42
WLC NS0110                                   5.5 H0.11ML          1.0  200   42
WLC EW0110                                   7.3 H0.10ML          1.0  200   42
YRH Z 01103.2          P 0IU6.74         S 1                                  22
WBR Z 01104.53         P 2E 9.7          S 1                                  37
WST Z 01104.02         P 2E 8.0          S 1                                  28
WFB Z 01106.04         P 3E 10.62        S 2                                  41
YRC Z 01103.95         P 2E 9.05         S 3                                  33
YRE Z 01101.67         P 1ID                                                   2
WPM Z 01106.0          P 2E 12.04        S 3                                  46
WLF Z 01104.77         P 2E 9.36         S 2                                  35
WME Z 01106.6          P 3E 12.35        S 3                                  47
YLL Z 01103.37         P 1ID7.06         S 1                                  24
      -1
170988N WALES                                  5.0RITCHIELLAKE VYRNWY,POWYS     1
       194421.39  295.77/ 318.71  12.6 0.3                 52.756   -3.545     2
  9  6 287 0.05  0.5  0.3 C A*D                                                 3
WLC Z 194426.97        P 1IU30.87        S 2                                  31
WLC NS1944                                   6.6 H0.13ML          0.25 200   31
WLC EW1944                                   5.5 H0.1 ML          0.25 200   31
WVR Z 194423.72        P 1ID25.47        S 2                                   6
WBR Z 194426.21        P 1ID29.6         S 2                                  26
WFB Z 194427.59        P 3E 31.65        S 3                                  34
YRH Z 194433.66        P 2E                                                   74
      -1
200988HEREFORD                                 5.0RITCHIELSE MERTHYR TYD,POWYS  1
       161656.23  310.09/ 199.14   0.6 1.1          3+   51.683   -3.301     2
 10 35 226 0.14  0.9  0.8 C A*D FELT MERTHYR VALLEY AND   EDWARDSVILLE          3
MCH Z 16173.9          P 1ID9.57         S 1                                  41
MCH NS1617                                  13.2H0.19ML          0.25 200   41
MCH EW1617                                  14.2H0.15ML          0.25 200   41
HGH Z 16172.82         P 1ID7.92         S 2                                  35
HTR Z 16174.29         P 2IU10.52        S 2                                  44
WLC Z 161721.22        P 2E 38.8         S 2                                 150
YRH Z 161722.10        P 2E                                                  157
WVR Z 161717.2         P 3E                                                  126
      -1
240988HEREFORD   HF486                         5.0 NSH   LMONMOUTH,GLOUCS       1
       213623.66  342.97/ 209.66  16.1 1.2                 51.782   -2.827     2
  9 16 142 0.16  1.1  1.5 C B*C                                                 3
MCH Z 213628.88        P 2ID33.15        S 2                                  27
MCH NS2136                                  04.5H0.07ML          10   200   27
MCH EW2136                                  02.0H0.06ML          10   200   27
HAE Z 213630.22        P 2IU34.60        S 3                                  34
HGH Z 213627.65        P 2ID30.36        S 2                                  16
HTR Z 213631.22        P 2ED                                                  45
HCG Z 213637.29        P 3E 47.28        S 3                                  83
      -1
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270988 LOWNET    LN 610   2038      12.5      5.0DWR    LGLENEAGLES,TAYSIDE    1
       92251.37  292.29/ 706.65   3.7 0.8                56.240   -3.738    2
 10 14 103 0.26  1.1  2.7 C B*C                                              3
EBH Z 092254.42       P 0IU55.92       S 2EU                    0.25 200   14
ELO Z 092256.32       P 1IU59.59       S 1IU                               26
EAB Z 092258.53       P 2EU62.85       S 2E                                38
EAU Z 092300.07       P 2ED                                                48
EDU Z 092301.69       P 2ED08.21       S 2ED                               56
EDI Z 092300.91       P 4E 06.27       S 2EU 3.2H0.17M          0.25 200   49
EDI NS0923               E                EU 3.3H0.18ML        0.25 200   49
EDI EW0923               E                EU 4.5H0.19ML        0.25 200   49
     -1
280988 LOWNET    LN 611    206      25.0      5.0DWR    LGLENEAGLES,TAYSIDE    1
       2044 5.52 292.58/ 707.41   5.7 1.0                56.247   -3.734    2
 11 14 103 0.15  0.9  1.7 C B*C                                              3
EBH Z 204408.45       P 0IU10.37       S 1ID                    0.25 200   14
ELO Z 204410.35       P 0IU13.61       S 1IU                               25
EAB Z 204412.55       P 1EU17.05       S 2E                                38
EAU Z 204414.06       P 1IU                                                48
EDI Z 204414.25       P 1EU20.40       S 1E  4.8H0.10M          0.25 200   50
EDI NS2044               E                ED 7.1H0.11ML        0.25 200   50
EDI EW2044               E                EU 7.5H0.20ML        0.25 200   50
EDU Z 204415.42       P 2E 22.18       S 2E                                56
EBL Z 204417.59       P 3E                                                 68
     -1
290988N WALES                                    5.0RITCHIELLLEYN PEN,GWYNEDD    1
       175830.83  239.40/ 342.08  19.5 1.1            52.952   -4.391    2
 13  4  94 0.08  0.4  0.8 B A*B AFTERSHOCK                                   3
YRC Z 175837.5        P 1ID41.89       S 3                                 36
YRE Z 175834.15       P 1ID                                                 4
WLF Z 175837.5        P 3E                                                 38
YLL Z 175836.0        P 1IU39.7        S 1                                 26
WLC Z 175838.23       P 2E 43.45       S 2                                 41
WLC NS1758                          5.2 H0.13ML          1.0  200   41
WLC EW1758                          3.5 H0.10ML          1.0  200   41
YRH Z 175835.53       P 1IU38.57       S 2                                 21
WBR Z 175837.36       P 1IU41.59       S 3                                 35
WFB Z 1758               42.63         S 3                                 38
     -1
300988HEREFORD   HF487                           5.0 NSH   LNW MERTHYR TYD,POWYS  1
        754 0.36  312.44/ 216.51   0.1 0.7            51.840   -3.271    2
 15 26 195 0.11  0.6  1.0 C A*D                                              3
MCH Z 075405.58       P 1IU                                                26
MCH NS0754                          04.5H0.10ML          1    200   26
MCH EW0754               09.48       S 1  07.5H0.15ML          1    200   26
SBD Z 075420.30       P 2E                                                119
HAE Z 075410.50       P 2E                                                 55
HCG Z 075410.91       P 1ID                                                60
HGH Z 075407.92       P 1IU                                                39
HTR Z 075405.53       P 1IU09.85       S 3                                 27
YRE Z 075425.11       P 2I                                                149
WPM Z 075427.21       P 2E                                                164
WLF Z 075428.95       P 3E                                                178
YLL Z 075426.11       P 3E                                                157
YRH Z 075424.35       P 2E                                                144
WBR Z 075420.97       P 2ID                                               121
WFB Z 075418.67       P 2ID                                               107
     -1
011088KEYWORTH+  KW 022            25.0      5.0JAR    LBOLSOVER,DERBYSHIRE   1
        239 9.39  449.75/ 370.89   0.2 2.0            53.232   -1.255    2
  7 18 141 0.14  0.9  1.1 B A*C COALFIELD TYPE                                3
KBI Z 023913.16       P 3E                15.4H0.69ML          2.5 200   18
KWE Z 023918.24       P 3E 24.47       S 3  9.8H0.88ML          0.25 200   46
KSY Z 023919.35       P 3E 26.66       S 3                                 54
HPK Z 023925.00       P 3E 34.93       S 3                                 84
HPK NS0239                             9.5H0.26ML          1.0 200   84
HPK EW0239                            11.0H0.18ML          1.0 200   84
     -1
041088HEREFORD   HF487                           5.0 NSH   LLEOMINSTER,HER & WORC 1
        72343.11  359.40/ 255.20  14.2 0.9            52.193   -2.594    2
  8 18 199 0.15  1.0  4.1 C B*D                                              3
MCH Z 072349.60       P 1IU54.31          S 1                              35
MCH NS                                    07.0H0.06ML          1    200   35
MCH EW0723                                06.0H0.08ML          1    200   35
HAE Z 072346.99       P 1ID                                                18
HGH Z 072353.40       P 3E                                                 45
HTR Z 072351.61       P 1IU57.55          S 2                              40
HLM Z 072351.11       P 2E 55.75          S 2                              55
     -1
051088HEREFORD   HF487                           5.0 NSH   LFOREST OF DEAN,GLOUC  1
       153322.36  368.43/ 218.39  15.8 1.6            51.863   -2.459    2
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  5 20 241 0.05  1.0  3.5 C B*D                                                3
MCH Z 153329.48       P 2IU                                                  40
MCH NS1533                 34.90       S 2I 11.5H0.10ML          2.5  200   40
MCH EW1533                              05.0H0.10ML          2.5  200   40
HAE Z 153326.79       P 1ID                                                  20
HGH Z 153328.82       P 2IU                                                  35
HTR Z 153332.80       P 3E                                                   61
      -1
121088KEYWORTH+  KW 024            12.5      5.0JAR    LMALTBY,S YORKSHIRE    1
       04531.45  455.67/ 393.17   1.4 1.3                53.432   -1.162    2
  7 31 273 0.23  5.7  5.1 D D*D COALFIELD TYPE                                3
KBI Z 004537.32       P 2IU                                                  31
KWE Z 004542.96       P 3E                                                   65
KSY Z 004543.16       P 3E 50.73       S 3                                   65
CWF Z 004545.26       P 3E 55.05       S 3                                   78
CWF NS0045                              10.0H0.12ML          0.25 200   78
CWF EW0045                              10.0H0.14ML          0.25 200   78
KUF Z 004549.86       P 3E                                                  104
      -1
131088KEYWORTH   KW 024            12.5      5.0JAR    LSTOKE-ON-TRENT,STAFFS 1
        2 759.11  392.06/ 348.68   1.1 1.0                53.035   -2.118    2
  4 19 297 0.00  0.0  0.0 C A*D COALFIELD TYPE                                 3
KWE Z 020803.01       P 2E                                                   19
KBI Z 020807.72       P 2E                                                   47
CWF Z 020810.47       P 3E 18.75       S 3                                   64
CWF NS0208                               3.8H0.24ML          0.24 200   64
CWF EW0208                               3.2H0.19ML          0.24 200   64
KSY Z 020818.45       P 4E                                                  103
      -1
131088HEREFORD   HF489                          5.0 NSH   LMERTHYR TYDFIL,POWYS  1
       110022.40  309.12/ 206.68   0.4 0.5                51.751   -3.317    2
  4 35 255 0.09  0.0  0.0 C A*D                                               3
MCH Z 110028.75       P 3E                                                   35
MCH NS1100                 34.22       S 2E 04.5H0.15ML          0.25 200   35
MCH EW1100                                                                   35
HGH Z 110029.59       P 2ID                                                  38
HTR Z 110029.51       P 3E                                                   37
      -1
131088HEREFORD   HF489                          5.0NSH    LMERTHYR VALE,MID GLAM 1
       121750.15  312.79/ 199.21   0.5 1.0                51.684   -3.262    2
  7 32 240 0.11  1.4  1.2 C B*D                                               3
MCH Z 121757.58       P 2E                                                   39
MCH NS1217                 63.06       S 1I 17.5H0.07ML          0.25 200   39
MCH EW1217                              21.0H0.12ML          0.25 200   39
HCG Z 121803.82       P 2E                                                   76
HGH Z 121756.30       P 1ID61.06       S 2I                                  32
HTR Z 121758.51       P 2ED64.44       S 2E                                  44
      -1
141088HEREFORD   HF489                          5.0NSH    LHALFWAY FOREST,POWYS  1
       133935.84  283.08/ 233.11   1.0 1.2                51.984   -3.703    2
 15 32 214 0.20  1.1  2.6 C B*D                                               3
MCH Z 133943.91       P 2IU                                                  48
MCH NS1339                 50.07       S 2  18.7H0.25ML          0.25 200   48
MCH EW1339                              16.0H0.07ML          0.25 200   48
HAE Z 133949.05       P 2E                                                   80
HCG Z 133942.41       P 2IU                                                  38
HGH Z 133948.26       P 2E                                                   73
HTR Z 133941.21       P 1IU                                                  32
HLM Z 133949.44       P 2ID                                                  81
WPM Z 133959.62       P 3E                                                  143
YLL Z 133958.74       P 3E                                                  133
YRE Z 133956.1        P 3E                                                  121
WLC Z 133954.74       P 3E                                                  113
WVR Z 133950.65       P 3E                                                   91
WBR Z 133952.48       P 3E                                                   98
WST Z 133954.5        P 3E                                                  112
WFB Z 133949.76       P 3E                                                   81
      -1
141088KEYWORTH+  KW 024            12.5      5.0JAR    LROTHERHAM,S YORKSHIRE 1
       164627.90  444.44/ 391.37   1.9 2.2                53.417   -1.331    2
  6 22 278 0.04  1.6  1.3 C B*D COALFIELD TYPE                                3
KBI Z 164632.19       P 3EU                                                  22
KWE Z 164637.92       P 3E 45.22       S 3                                   56
KSY Z 164640.18       P 3E                                                   71
CWF Z 164641.04       P 3E 50.40       S 3                                   76
CWF NS1646                              10.5H0.20ML           0.25      76
CWF EW1646                              11.1H0.17ML           0.2 200   76
      -1
151088 LN/RO     LN613            12.5       5.0DG/JAR LROSEWELL,LOTHIAN      1
        54728.14  328.71/ 663.58   1.2 0.9                55.860   -3.139    2
 14  0 102 0.06  0.2  0.1 B A*B COALFIELD TYPE                                 3
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RHC Z 054728.43        P 0ID                                                    0
RGH Z 054728.45        P 0ID                                                    1
RCH Z 054728.57        P 0ID28.98        S 2                                    1
RCA Z 054728.58        P    28.96        S 1   9.5H0.14M          2.5    4     1
RCA NS0547                                    7.0H0.13M          2.5    4     1
RCA EW0547                                   12.7H0.13M          2.5    4     1
RMM Z 054728.64        P 1ID                                                    1
RRD Z 054728.81        P 1ED                                                    2
EDI Z 054730.08        P 0ID31.44        S 1                                    8
EDI NS0547                                   12.5H0.17ML         1.0   200     8
EDI EW0547                                   15.0H0.25ML         1.0   200     8
EBL Z 054730.71        P 0ID                                                   11
EAU Z 054732.22        P 1IU36.21        S 3                                   20
ESY Z 054734.55        P 3ED                                                   33
EBH Z 054737.39        P 3E                                                    49
      -1
171088HEREFORD   HF489                          5.0 NSH   LMERTHYR TYDFIL,POWYS  1
       122532.43  309.08/ 215.44   0.4 0.7                  51.830   -3.319     2
  6 28 216 0.14  0.6  0.9 C A*D                                                  3
MCH Z 122537.87        P 2I                                                    29
MCH NS1225                42.52       S 1I 09.0H0.20ML          0.25 200     29
MCH EW1225                42.50       S 1I 12.0H0.22ML          0.25 200     29
HCG Z 122543.22        P 2E                                                    60
HGH Z 122540.31        P 1IU                                                   41
HTR Z 122537.88        P 2E 42.24        S 2I                                  28
      -1
201088KEYWORTH   KW 025             25.0      5.0JAR    LSTOKE-ON-TRENT,STAFFS 1
        14229.68  391.34/ 347.75   0.2 1.2                  53.027   -2.129     2
  4 19 298 0.02  0.0  0.0 C A*D COALFIELD TYPE                                   3
KWE Z 014233.82        P 3E                                                    19
KBI Z 014238.65        P 3E                                                    48
CWF Z 014241.26        P 3E 49.71        S 3                                   64
CWF NS0142                                    4.6H0.29ML          0.25 200     64
CWF EW0142                                    4.0H0.23ML          0.25 200     64
      -1
221088N WALES                                 5.0RITCHIELLLEYN PEN,GWYNEDD     1
       13 148.87  239.69/ 343.47  23.4 0.6                 52.964   -4.387     2
 18  3  85 0.10  0.4  0.7 A A*A AFTERSHOCK                                       3
WLC Z 130156.45        P 1IU61.79        S 1                                   41
WLC NS1301                                   13.8H0.06ML          0.25 200     41
WLC EW1301                                    9.2 H0.05ML          0.25 200     41
YRH Z 130154.07        P 2E 57.62        S 3                                   22
WBR Z 130156.03        P 2E 60.11        S 3                                   35
WST Z 130154.6         P 1IU58.56        S 1                                   27
WFB Z 130156.2         P 3E 60.9         S 2                                   39
YRC Z 130155.57        P 3E 60.26        S 2                                   34
YRE Z 130152.7         P 1ID                                                    3
WPM Z 130157.19        P 2E                                                    46
WLF Z 130155.82        P 3E 60.47        S 1                                   36
YLL Z 130154.29        P 1IU58.0         S                                     24
      -1
231088 CORNWALL                               5.0LWALKERLST STEPHEN,CORNWALL   1
        05131.49  192.45/  51.19   2.6-0.4                 50.323   -4.916     2
  7  4 190 0.07  0.7 21.2 D C*D                                                 3
CSA Z 005132.56        P 0ID                                                    4
CST Z 005135.86        P 0 U38.82          2                                   23
CBW Z 005136.05        P 0 U39.00          2                                   24
CCA Z 005136.61        P 0 U                                                   27
CCO Z 005136.92        P 0 U                                                   29
CR2 Z 005136.30        P 4                                                     25
CR2 NS0051                                    5.0 H0.04ML          0.25 200     25
CR2 EW0051                                    6.0 H0.04ML          0.25 200     25
      -1
231088HEREFORD                                5.0RITCHIELBRIDGEWATER,SOMERSET  1
        3 155.14  318.25/ 150.25  17.1 2.8                 51.245   -3.171     2
 27  9  91 0.20  0.5  0.5 B B*B                                                  3
MCH Z 03028.82         P 1ID18.84        S 1                                   85
HAE Z 030211.17        P 1IU                                                   98
HCG Z 030215.25        P 2ID29.74        S 2                                  125
HGH Z 03023.69         P 1IU10.27        S 2                                   51
HTR Z 030210.13        P 0ID21.23        S 2                                   93
HP09Z 030162.13        P 1ID                                                   40
DYA Z 030211.95        P 2IU23.8         S 2                                  105
DYA NS0302                                    3.6 H0.2 ML          10.0 200    105
DYA EW0302                                    4.5 H0.13ML          10.0 200    105
HP02Z 030158.30        P 1IU60.82        S 1                                    9
KTG Z 030228.03        P 1ID                                                   226
KUF Z 030230.23        P 1IU                                                   245
WLC Z 030224.80        P 3E 46.18        S 3                                   199
WLC NS0302                                   11.0H0.26ML          1.0   200    199
WLC EW0302                                   13.3H0.22ML          1.0   200    199
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HP07Z 030161.80        P 1ID66.40        S 1                                  37
HP10Z 030161.75        P 1IU                                                  35
HTL Z 030210.7         P 1IU21.75        S 3                                  96
HTL NS0302                                    9.5 H0.16ML          2.5  200   96
HTL EW0302                                   10.9H0.19ML           2.5  200   96
HP01Z 030159.91        P 1IU63.58        S 1                                  25
HP03Z 030160.00        P 1IU63.75        S 1                                  26
      -1
251088KEYWORTH    KW 026             25.0       5.0JAR     LDUDLEY,WEST MIDLANDS  1
       225215.31  395.12/ 286.61   9.3 0.8                    52.477   -2.072    2
  9 56 131 0.22  1.6  6.5 D C*D                                                  3
CWF Z 225225.07        P 2E 34.27        S 3                                  59
CWF NS2252                                    7.0H0.06ML           0.25 200   59
CWF EW2252                                    4.9H0.06ML           0.25 200   59
KBI Z 225230.93        P 3E                                                   94
KUF Z 225233.93        P 3E                                                  115
HLM Z 225224.82        P 3E 31.46        S 3                                  56
HAE Z 225225.57        P 3E                                                   59
MCH Z 225229.06        P 2E 38.87        S 3                                  83
MCH NS2252                                    4.5H0.10ML           0.25 200   83
MCH EW2252                                    5.0H0.08ML           0.25 200   83
      -1
271088 ESK/LN     ES 389             12.5       5.0DG      LSUNDERLAND,TYNE & WEAR1
       14437.68   456.89/ 556.38   4.2 1.4                    54.899   -1.113    2
  7 71 314 0.11  3.4  4.7 D C*D OFFSHORE,COALFIELD TYPE                          3
XSO Z 014454.01        P 2EU65.71        S 3EU                                98
ESK Z 014460.69        P 3ED77.47        S 3E                                141
ESK NS0144                E                  EU 5.0H0.15ML          0.25 200  141
ESK EW0144                E                  E  4.2H0.19ML          0.25 200  141
ECK Z 014459.11        P 3E 75.18        S 2ED                                133
XAL Z 014449.65        P 3E                                                   71
ESY Z 014502.45        P 3E 20.35        S 3E                                148
EBL Z 014503.63        P 2EU21.85        S 3E                                157
EAU Z 014506.60        P 3E                                                  182
      -1
271088KEYWORTH+   KW 026             12.5       5.0JAR     LBURTON JOYCE,NOTTS    1
       23350.71   465.47/ 344.07   0.4 0.4                    52.990   -1.025    2
  7 29 119 0.17  0.9  1.8 C B*C COALFIELD TYPE                                   3
KSY Z 023356.57        P 3E                                                   30
KBI Z 023358.81        P 2E 65.70        S 3                                  45
KWE Z 023360.92        P 3E 68.29          3                                  55
CWF Z 023357.00        P 4E 62.10          3                                  34
CWF NS0233                                    3.4H0.26ML           0.25 200   34
CWF EW0233                                    3.0H0.17ML           0.25 200   34
HPK Z 023371.70        P 3E 84.20        S 3                                 115
      -1
291088KEYWORTH    KW 026             12.5       5.0JAR     LSUTTON-IN-ASHFLD,NOTTS1
       14548.06   449.25/ 360.18   5.1 0.6                    53.136   -1.264    2
  6 22 166 0.12  1.7  3.5 C B*C COALFIELD TYPE                                   3
KBI Z 014552.28        P 3E                                                   22
KWE Z 014555.79        P 3E 60.64        S 3                                  41
CWF Z 014556.03        P 3E 61.70        S 3                                  44
CWF NS0145                                    2.4H0.18ML           0.25 200   44
CWF EW0145                                    2.8H0.32ML           0.25 200   44
KSY Z 014556.62        P 3E                                                   49
      -1
301088 ESKNET     ES 390             12.5       5.0DG      LJOHNSTONEBRIDGE,D & G 1
       13 0 5.90  307.78/ 594.80   1.7-0.1                    55.239   -3.450    2
  5 18 314 0.08  5.5  4.8 D D*D                                                  3
ESK Z 130009.52        P 0IU12.10        S 1EU                                18
ESK NS1300                IU                 EU 9.7H0.10ML          0.25 200   18
ESK EW1300                IU                 IU 7.5H0.10ML          0.25 200   18
ECK Z 130010.23        P 0ID13.19        S 1ID                                22
XSO Z 130019.95        P 2E                                                   81
      -1
011188KEYWORTH+   KW 027             25.0       5.0JAR     LANNESLEY,NOTTS        1
       01648.02   450.48/ 352.48   2.9 1.8                    53.067   -1.247    2
  6 28 146 0.05  0.4  2.0 B A*C                                                  3
KBI Z 001653.23        P 2E                                                   28
CWF Z 001654.77        P 2EU59.49        S 3                                  37
CWF NS0016                                    8.5H0.08ML           2.5 200    37
CWF EW0016                                    5.9H0.21ML           2.5 200    37
KWE Z 001655.38        P 2ED                                                  40
KSY Z 001656.24        P 3E                                                   46
KUF Z 001661.04        P 3E                                                   76
HLM Z 001669.70        P 3E                                                  127
HAE Z 001672.36        P 3E                                                  145
MCH Z 001675.84        P 3E 95.60        S 3                                 168
MCH NS0016                                   11.2H0.23ML           0.25 200  168
MCH EW0016                                   17.0H0.10ML           0.25 200  168
      -1
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031188 ESK       ES 391            12.5       5.0DG     LSUNDERLAND,TYNE & WEAR1
       212442.49  449.31/ 558.52   3.0 1.8                  54.919   -1.231    2
  7 63 310 0.22  6.7 10.0 D D*D OFFSHORE,COALFIELD TYPE                          3
XAL Z 212453.22       P 2EU                                                    64
XSO Z 212457.70       P 3E 68.85       S 2EU                                   91
ECK Z 212503.50       P 2EU18.48       S 3EU                                  125
ESK Z 212504.53       P 2EU20.20       S 2EU                                  134
ESK NS2125               E                E  8.5H0.20ML          0.25 200  134
ESK EW2125               EU               EU 7.9H0.20ML          0.25 200  134
     -1
041188 LOWNET    LN616   710        25.0       5.0DWR    LROSEWELL,LOTHIAN      1
       1316 4.66  328.92/ 663.39   1.2 2.2             4+   55.858   -3.136    2
 17  0 102 0.08  0.3  0.2 B A*B FELT ROSEWELL,LASSWADE,  ROSLIN,LOANHEAD       3
EDI Z 131606.58       P 1IU08.15       S 2EU                                    8
EBL Z 131607.16       P 1ID09.09       S 3EU                                   11
EAU Z 131608.75       P 1IU11.93       S 3ED                                   20
ESY Z 131610.98       P 1ID15.82       S 3ED                                   33
EBH Z 131613.82       P 1ID20.35       S 3E                                    49
PCO Z 131615.79       P 2EU23.80       S 3EU                                   62
PCA Z 131617.41       P 3E                                                     72
RHC Z 131604.92       P 0IU                                                     1
RGH Z 131604.97       P 0ID                                                     1
RCA Z 131605.10       P 0ID                                                     2
PGB Z 131619.29       P 3E 29.90       S 3E  2.8H0.19M          2.5  200    84
PGB NS1316               E                EU 8.4H0.19ML         2.5  200    84
PGB EW1316               E                EU 5.6H0.15ML         2.5  200    84
RCH Z 131605.12       P 0ID05.46       S 2E                                     1
ESK Z 131615.41       P 1ID22.90       S 3E                                    61
ESK NS1316               E                E  8.6H0.19ML         1.0  200    61
ESK EW1316               EU               E 10.6H0.19ML         1.0  200    61
XSO Z 131617.32       P 1ID                                                    69
ECK Z 131618.19       P 2EU                                                    75
RMM Z 131605.13       P 0ID                                                     1
RRD Z 131605.28       P 0IU                                                     2
     -1
071188 LOWNET    LN 616   1564       12.5       5.0DWR    LROSEWELL,LOTHIAN      1
        2 632.11  327.92/ 662.32   1.8 0.3                  55.849   -3.151    2
 15  1 127 0.09  0.5  0.2 B A*B COALFIELD TYPE                                  3
EDI Z 020634.17       P 0IU35.65       S 2EU 3.0H0.30M          1.0 200     9
EDI NS0206               IU               EU 3.0H0.31ML         1.0 200     9
EDI EW0206               ID               EU 3.7H0.18ML         1.0 200     9
EBL Z 020634.56       P 1EU36.19       S 2EU                                   11
EAU Z 020636.13       P 2EU38.52       S 3E                                    19
ESY Z 020638.85       P 3E                                                     35
RGH Z 020632.49       P 0ID                                                     1
RHC Z 020632.54       P 0ID                                                     1
RCA Z 020632.57       P 0ID32.85       S 1I                                     1
RCH Z 020632.63       P 0ID33.00       S 1I                                     1
RRD Z 020632.67       P 1IU                                                     1
RMM Z 020632.80       P 0ID                                                     2
     -1
071188WALES+     WF 169             12.5       5.0JAR    LSTOKE-ON-TRENT,STAFFS 1
       175544.92  385.45/ 351.38   0.8 2.2             4+   53.059   -2.217    2
 14 72 170 0.05  0.3  0.4 C A*D FELT AREA(50 SQ.KMS)                           3
WVR Z 175561.70       P 2EU73.81       S 3                                     98
WLC Z 175562.64       P 2E 75.69       S 3                                    105
WLC NS1755                                4.4H0.18ML          1.0 200  105
WLC EW1755                                5.9H0.18ML          1.0 200  105
WBR Z 175564.33       P 2IU78.03       S 3                                    115
WST Z 175565.64       P 4E                                                    119
WFB Z 175566.03       P 3E                                                    130
YRH Z 175571.68       P 3E                                                    164
SBD Z 175557.56       P 2EU                                                    72
HLM Z 175558.04       P 3E                                                     75
HAE Z 175564.40       P 2EU                                                   116
HCG Z 175566.41       P 3E                                                    127
MCH Z 175566.56       P 3E 81.78       S 3                                    130
MCH NS1755                             0.0H0.00M          1.0 200  130
MCH EW1755                            12.1H0.16ML          1.0 200  130
HTR Z 175566.90       P 3E 81.76       S 3                                    130
HGH Z 175571.93       P 3E                                                    163
HPK Z 175563.04       P 2EU76.33       S 3                                    107
HPK EW1755                            13.5H0.18ML          1.0 200  107
     -1
081188 LN/ESK    LN 616   1916       12.5       5.0DWR/DG LPETERLEE,DURHAM     1
        3 657.37  446.49/ 544.67   3.9 1.6                  54.795   -1.277    2
 11 61 311 0.21  3.3  6.2 D C*D OFFSHORE,COALFIELD TYPE                         3
ESY Z 030721.58       P 2E 40.97       S 2E                    0.25 200  151
EBL Z 030721.92       P 3E 41.18       S 2E                                   156
EDI Z 030724.9        P 4E 46.80       S 3E  1.5H0.35M          0.25 200  174
EDI NS0307               E                E  5.1H0.55ML         0.25 200  174
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EDI EW0307              E                E  2.6H0.40ML          0.25 200  174
EAU Z 030726.72       P 2E 48.85       S 3E                                181
XAL Z 030707.80       P 3E 15.40       S 3E                                 61
XSO Z 030713.80       P 3E 25.85       S 2ED                               100
ECK Z 030718.25       P 3E 33.50       S 3ED                               126
ESK Z 030719.95       P 3E 35.55       S 3ED                               136
ESK NS0307              E                E  2.7H0.20ML          0.25 200  136
ESK EW0307              E                E  2.3H0.19ML          0.25 200  136
     -1
081188 LOWNET    LN 616   2063      12.5      5.0DWR    LBLAIRHALL,FIFE       1
       134221.76  297.39/ 691.83   0.8 1.5                56.108   -3.650    2
 10 18 124 0.12  0.6  0.8 B A*C COALFIELD TYPE                               3
EBH Z 134225.69       P 2E 28.17       S 2EU                 1.0 200   18
EAU Z 134227.92       P 2E 32.40       S 3E                                32
EDI Z 134228.60       P 2EU33.61       S 2E  2.0H0.40M       1.0 200   36
EDI NS1342              E                EU 4.7H0.40ML       1.0 200   36
EDI EW1342              EU               E  5.4H0.38ML       1.0 200   36
EAB Z 134229.68       P 3E 36.20       S 3E                                44
ELO Z 134229.3        P 3E 35.43       S 2E                                41
     -1
101188N WALES                                  5.0RITCHIELLLEYN PEN,GWYNEDD    1
       17 6 0.50  239.64/ 343.11  24.2 0.7          52.961   -4.388    2
 11  3  86 0.04  0.3  0.7 A A*A AFTERSHOCK                                  3
WCB Z 17069.05        P 4E                                                48
WCB NS1706                14.91       S 3  5.0 H0.06ML       0.25 200   48
WCB EW1706                             5.7 H0.09ML           0.25 200   48
YRC Z 17067.32        P 3E 12.03       S 2                                 35
YRE Z 17064.4         P 1ID                                                3
YLL Z 17065.98        P 1IU                                               25
WLC Z 17068.2         P 1IU                                               41
WLC NS1706                13.45       S 2  3.0 H0.12ML       1.0  200   41
YRH Z 17065.75        P 1IU9.3         S 2                                 22
WST Z 17066.32        P 1IU                                               27
WFB Z 1706                12.9        S 3                                 39
WLC EW1706                             2.6 H0.10ML           1.0  200   41
     -1
131188 LOWNET    ET 142          10.0       5.0DG     LLISMORE,STRATHCLYDE    1
       13 452.30  180.89/ 740.46   8.5 1.8              56.505   -5.561    2
 12 83 307 0.13  1.2  2.5 C B*D                                             3
EAB Z 130505.99       P 2E 16.20       S 3E                               83
ELO Z 130510.81       P 2E 24.22       S 2ED                             114
EBH Z 130513.67       P 2E 28.51       S 3E                              130
EAU Z 130516.32       P 2E 34.92       S 3EU                             150
EDU Z 130517.81       P 3E                                               157
PMS Z 130506.92       P 0IU17.85       S 3E                               89
PGB Z 130509.09       P 2EU21.08       S 3E                              103
PGB NS1305              E                E  7.1H0.11ML       1.0  200  103
PGB EW1305              E                E  5.1H0.13ML       1.0  200  103
PCO Z 130510.16       P 2E                                               108
PCA Z 130511.75       P 2E                                               121
EDI Z 130517.10       P 3E 35.98       S 3E  6.7H0.15M       0.25 200  161
EDI NS1305              E                EU11.0H0.11ML       0.25 200  161
EDI EW1305              E                E 10.5H0.12ML       0.25 200  161
     -1
131188SHETLAND                                 5.0BS     LEAST OF SHETLAND     1
       232050.93                29.2 2.9          2+   59.802   -0.460    2
 26 50 112 0.51  1.8  2.7 C D*B FELT SHETLAND & FAIR ISLE                    3
LRW Z 232100.90       P 1ID06.90       S 3E                               55
SAN Z 232100.12       P 1ID05.40       S 3E                               50
WAL Z 232104.40       P 1ID13.90       S 3E                               82
YEL Z 232104.09       P 1IU16.11       S 3E                               90
MCD Z 232130.70       P 1ID58.60       S 3E                              296
MCD NS2321                             10.00.11ML          01.0  200  296
MCD EW2321                             06.7H0.10ML         01.0  200  296
MVH Z 232131.30       P 1E 58.70       S 4E                              300
MLA Z 232122.50       P 1E 45.10       S 4E                              236
FOO Z 232138.30       P 1E 73.30       S 3E                              361
FOO NS2321                             05.5H0.08ML         01.0 200  361
FOO EW2321                             06.5H0.07ML         01.0 200  361
FRO Z 232138.50       P 1ED73.79       S 3E                              363
SUE Z 232133.20       P 1I 64.50       S 3E                              320
HYA Z 232142.00       P 1I 80.00       S 3I                              396
ODD1Z 232144.00       P 1I 80.40       S 3I                              397
KMY Z 232135.00       P 1I 65.80       S 3I                              330
ASK Z 232133.60       P 1I 65.00       S 3I                              324
     -1
151188 CORNWALL                                5.0ABW    LSW LANDS END,CORNWALL 1
       114417.41  124.02/  19.95   6.2 1.4              50.015   -5.853    2
  8 25 337 0.06  5.4 13.8 D D*D                                            3
CPZ Z 114421.86       P 0IU                                              25
CCA Z 114425.93       P 0IU32.64       S 1                               49
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CCO Z 114426.04       P 0IU                                                  49
CR2 Z 114426.48       P 0IU33.26      S 1                                    52
CR2 NS1144                                6.6 H0.04ML          2.5  200    52
CR2 EW1144                                5.5 H0.05ML          2.5  200    52
CST Z 114426.67       P 0IU                                                  53
CBW Z 114427.01       P 0IU                                                  55
     -1
161188 ESKNET    ES 392           12.5       5.0DG     LWHITEHAVEN,CUMBRIA    1
       32327.23  283.41/ 521.39   1.9 0.9                54.574   -3.804    2
  6 22 274 0.14  3.0  2.0 D C*D                                              3
XDE Z 032331.47       P 2EU34.62      S 2EU                                  22
ECK Z 032340.70       P 3E 50.78      S 2E                                   80
ESK Z 032342.78       P 2E 54.14      S 2ED                                  91
ESK NS0323               E               E  3.2H0.12ML          0.25 200   91
ESK EW0323               E               E  4.0H0.10ML          0.25 200   91
     -1
191188 LN/PA     LN 618   1242      12.5       5.0DWR/DG LOBAN,STRATHCLYDE    1
       2350 6.14  185.18/ 726.67   7.7 0.9                56.384   -5.480    2
 14 74 301 0.20  1.6  2.1 C B*D                                              3
EAB Z 235018.01       P 2E 27.72      S 3E                   0.25 200   74
ELO Z 235024.05       P 3E 36.91      S 3E                              110
EBH Z 235026.14       P 3E 40.62      S 3E                              123
EAU Z 235028.52       P 3E                                              140
EDI Z 235030.00       P 4E 46.90      S 3E  1.4H0.09M        0.25 200   151
EDI NS2350               E               E  1.8H0.12ML          0.25 200   151
EDI EW2350               E               E  1.3H0.11ML          0.25 200   151
EDU Z 235030.55       P 3E                                              153
PMS Z 235018.79       P 2EU27.89      S 3E                               75
PCO Z 235021.94       P 3E                                               97
PGB Z 235020.60       P 3E 31.53      S 2E                               89
PGB NS2350               E               E  3.1H0.14ML          0.25 200   89
PGB EW2350               E               E  3.4H0.13ML          0.25 200   89
     -1
221188EAST ANGLIA                          5.0JMW    RSOUTHERN NORTH SEA    1
       215243.06  689.64  392.77   7.7 2.7 3.1            53.352    2.353    2
  8 84 299 0.17  8.1  3.3 D D*D                                              3
APA Z 215304.10       P 2EU                                             131
AWH Z 215303.26       P 2ED19.49      S 4EU                             124
AHE Z 215302.49       P 2ED                                             121
ABA Z 215258.78       P 2EU                                              96
AWI Z 215256.82       P 2ED70.59      S 4ED                              84
KSY Z 215313.43       P 3E                                              201
KUF Z 215314.07       P 3E                                              202
KBI Z 215320.28       P 3ED                7.2H0.66ML          0.25 200  259
ESY Z 215340.79       P 3E                                     0.25 200  429
EBL Z 215342.72       P 3E 86.85      S 3E                1.4H0.18B*0.25 200  442
EDI Z 215344.42       P 3E 90.68      S 3E  3.5H0.11M  3.5H0.11B*0.25 200  458
EDI NS2153               E               E  2.9H0.20ML          0.25 200   458
EDI EW2153               E               E  2.7H0.20ML          0.25 200   458
EAU Z 215345.20       P 2E                                              468
EBH Z 215348.70       P 3E                                1.7H0.16B*0.25 200  496
EAB Z 215353.30       P 3E                                              535
     -1
231188KEYWORTH+  KW 030           12.5       5.0JAR    LBOLSOVER,DERBYSHIRE   1
       202849.02  448.62/ 370.80  21.3 1.8                53.232   -1.272    2
  5 17 139 0.01  0.2  0.4 C A*D COALFIELD TYPE                                3
KBI Z 202853.61       P 3E                                               17
KSY Z 202858.51       P 3E                                               55
KWE Z 202857.15       P 3E 64.50      S 4                                45
HPK Z 202862.71       P 3E 72.60      S 3                                84
HPK EW2028                               17.5H0.23ML          0.25 200   84
     -1
241188 CORNWALL                            5.0       LS CONSTANTINE,CORNWALL1
       153352.45  172.99/  27.96   5.6 0.1                50.108   -5.175    2
  7  3 161 0.02  0.3  0.4 B A*C                                              3
CCO Z 153353.62       P 0ID                                              4
CGH Z 153353.92       P 0IU                                              6
CBW Z 153353.95       P 0IU55.05      S 1                                6
CR2 Z 1533                55.13      S 1                                7
CR2 NS1533                               4.1 H0.05ML          2.5 200    7
CR2 EW1533                               5.8 H0.04ML          2.5 200    7
CCA Z 153354.38       P 0 D                                             10
CST Z 1533                55.87      S 1                               10
     -1
241188 CORNWALL                            5.0       LS CONSTANTINE,CORNWALL1
       154124.75  172.58/  28.11   6.1 0.2                50.109   -5.181    2
  6  3 169 0.03  0.5  1.2 B A*C                                              3
CCO Z 154126.00       P 0ID                                              3
CGH Z 154126.30       P 0IU                                              7
CBW Z 154126.32       P 0IU                                              7
CR2 Z 1541                27.50      S 1                                7
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CR2 NS1541                                    4.4 H0.05ML          2.5  200     7
CR2 EW1541                                    6.6 H0.04ML          2.5  200     7
CCA Z 1541                28.14       S 1                                      9
CST Z 1541                28.25       S 1                                     10
     -1
241188 CORNWALL                                5.0       LS CONSTANTINE,CORNWALL1
       171719.04  172.88/  28.18   6.3-0.1                50.110   -5.177     2
  6  3 162 0.02  0.5  1.2 B A*C                                                 3
CCO Z 171720.31       P 0ID                                                    3
CGH Z 171720.62       P 0IU                                                    7
CBW Z 1717                21.75       S 1                                     6
CR2 Z 1717                21.82       S 1                                     6
CR2 NS1717                                    6.2 H0.05ML          1.0  200     6
CR2 EW1717                                    8.6 H0.05ML          1.0  200     6
CCA Z 1717                22.46       S 1                                      9
CST Z 1717                22.57       S 1                                     10
     -1
241188 CORNWALL                                5.0       LS CONSTANTINE,CORNWALL1
       173914.60  173.54/  28.50   7.3-0.4                50.113   -5.168     2
  4  3 278 0.00  0.0  0.0 C A*D                                                 3
CCO Z 173915.98       P 0ID                                                    3
CBW Z 1739                17.40       S 1                                     6
CR2 Z 1739                17.50       S 1                                     6
CR2 NS1739                                   11.6H0.05ML          0.25 200     6
CR2 EW1739                                   13.6H0.06ML          0.25 200     6
CST Z 1739                18.20       S 1                                      9
     -1
241188 CORNWALL                                5.0       LS CONSTANTINE,CORNWALL1
       192557.25  172.78/  28.06   5.6 0.1                50.108   -5.178     2
  8  3 166 0.03  0.3  0.7 B A*C                                                 3
CCO Z 192558.43       P 0ID                                                    3
CGH Z 192558.73       P 0IU                                                    7
CBW Z 192558.75       P 0IU59.83       S 1                                     6
CCA Z 192559.17       P 2  60.56       S 1                                     9
CR2 Z 1925                59.94       S 1                                     7
CR2 NS1925                                    4.3 H0.05ML          2.5  200     7
CR2 EW1925                                    5.5 H0.04ML          2.5  200     7
CST Z 1925                60.67       S 1                                     10
     -1
251188N WALES                                  5.0RITCHIELLLEYN PEN,GWYNEDD      1
        03519.14  238.47/ 343.77  21.9 0.6                52.967   -4.405     2
 12  2 116 0.03  0.3  0.3 B A*B AFTERSHOCK                                      3
WLC Z 003526.88       P 2E                                                    42
WLC NS0035                32.1       S 2  5.2 H0.15ML          0.25 200    42
WLC EW0035                                    4.4 H0.12ML          0.25 200    42
YRH Z 003524.09       P 1IU27.4        S 2                                     21
WBR Z 003526.02       P 1IU30.56       S 3                                     37
WST Z 003524.94       P 2E 28.8        S 3                                     28
YRE Z 003522.7        P 1IU25.16       S 2                                      2
YLL Z 003524.49       P 2E 28.15       S 3                                     25
     -1
301188N WALES                                  5.0RITCHIE IRISH SEA              1
       14 7 2.23  281.28/ 438.08   9.2 1.1                53.825   -3.804     2
 26 58 158 0.22  0.9  1.6 C B*D                                                3
WLC Z 140717.85       P 2E                                                    92
WLC NS1407                28.21       S 3  3.6 H0.11ML          0.25 200    92
WLC EW1407                                    3.9 H0.08ML          1.0  200    92
YRH Z 140722.63       P 3E 36.08       S 3                                    123
WVR Z 140720.75       P 1IU34.15       S 3                                    115
WBR Z 140719.52       P 2E 32.1        S 2                                    108
WST Z 140717.86       P 2E 29.20       S 3                                     95
WFB Z 140722.5        P 2E 37.25       S 3                                    128
WCB Z 140713.78       P 1IU                                                    70
WCB NS1407                21.89       S 3  6.5 H0.15ML          0.25 200    70
WCB EW1407                                   11.1H0.07ML          0.25 200    70
YRC Z 140715.66       P 2E 24.98       S 3                                     82
WPM Z 140713.27       P 1IU                                                    64
WLF Z 140714.16       P 3E 22.35       S 3                                     71
WME Z 140712.14       P 3E 19.16       S 3                                     58
WIM Z 140713.75       P 2E 21.22       S 3                                     67
XDE Z 140715.42       P 3E 24.35       S 3                                     79
YRE Z 140719.14       P 3E                                                   103
     -1
021288KEYWORTH+  KW 031            12.5       5.0JAR    LSTOKE-ON-TRENT,STAFFS 1
        82711.20  390.94/ 352.53  16.5 1.4                53.070   -2.135     2
  8 21 157 0.15  1.9  2.8 C B*C                                                 3
KWE Z 082715.86       P 2EU18.70       S 3                                     21
KBI Z 082719.28       P 2IU27.07       S 4                                     46
WLC Z 082728.80       P 3E 41.40       S 3                                    111
WLC NS0827                                    4.0H0.13ML          0.25 200   111
WLC EW0827                                    3.9H0.12ML          0.25 200   111
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WBR Z 082730.26        P 3E                                                  121
WFB Z 082732.65        P 3E                                                  135
YRH Z 082737.89        P 4E                                                  170
MCH Z 082733.70        P 4  47.09        S 3                                 133
MCH NS0827                                      7.2H0.19ML          0.25 200  133
MCH EW0827                                      5.0H0.19ML          0.25 200  133
      -1
051288N WALES                                    5.0RITCHIELLLEYN PEN,GWYNEDD     1
        13122.26  240.00/ 342.81  21.8 0.7                 52.958   -4.382     2
 14  4  87 0.10  0.5  0.7 A A*A AFTERSHOCK                                       3
WLC Z 013129.75        P 1IU34.97        S 2                                  41
WLC NS0131                                     10.5H0.11ML          0.25 200   41
WLC EW0131                                     8.0 H0.10ML          0.25 200   41
YRH Z 013127.3         P 1IU30.79        S 2                                  22
WBR Z 013128.9         P 2E 33.33        S 2                                  35
WST Z 013127.78        P 3E 31.73        S 1                                  27
WFB Z 013129.32        P 2E 34.18        S 2                                  39
YRE Z 013125.9         P 2E 28.12        S 2                                   4
YLL Z 013127.30        P 3E 31.25        S 2                                  25
      -1
061288 CORNWALL                                  5.0       LNW ST IVES,CORNWALL   1
        104433.23  139.06/  76.18   1.1 1.3                 50.527   -5.682     2
  7 50 324 0.03  0.6 41.8 D C*D                                                 3
CST Z 104442.17        P 4                                                   52
CCA Z 104441.90        P 0                                                   50
CCO Z 104442.88        P 1                                                   56
CBW Z 104443.31        P 1                                                   58
CSA Z 104443.55        P 2                                                   59
CGH Z 104444.49        P 0                                                   65
CR2 Z 104442.64        P 1  49.92        S 1                                 54
CR2 NS1044                                     4.0 H0.05ML          2.5 200    54
CR2 EW1044                                     4.0 H0.04ML          2.5 200    54
      -1
081288KEYWORTH   KW 032            12.5        5.0JAR    LLANGWITH,NOTTS/DERBS  1
        55722.78  454.38/ 370.24   0.5 1.9                 53.226   -1.185     2
  7 23 146 0.51  4.2  7.1 D D*C COALFIELD TYPE                                   3
KBI Z 055727.35        P 2E                    9.8H0.56ML          2.5 200    23
KWE Z 055731.78        P 3E 38.28         3                                    50
KSY Z 055731.66        P 3E                                                    50
HPK Z 055739.60        P 3E 49.30        S 3                                   86
HPK EW0557                                     9.9H0.12ML          1.0 200    86
CWF Z 055733.68        P 3                                                   55
      -1
091288 ESK                                       5.0DDG/DWRLSUNDERLAND,TYNE & WEAR1
        125429.36  438.14/ 550.99   1.0 1.8                 54.852   -1.406     2
  9 89 321 0.31 15.4 11.0 D D*D COALFIELD TYPE                                  3
ESK Z 125450.15        P 1  65.33        S 2                                  126
ESK NS1254                                     5.0 H0.42ML          0.25 200  126
ESK EW1254                                     4.0 H0.37ML          0.25 200  126
XSO Z 125445.16        P 1  55.91        S 2                                   89
ECK Z 1254                 63.42        S 2                                  116
ESY Z 125452.78        P 1EU69.28        S 2E                0.25 200  141
EDI Z 125455.85        P 3E 75.30        S 3E  4.0H0.7 M     0.25 200  164
EDI NS1254                E                E  5.1H0.4 ML     0.25 200  164
EDI EW1254                E                E  3.5H0.4 ML     0.25 200  164
      -1
101288 LOWNET    LN 621   1017     12.5       5.0DWR/DG LLOCH FYNE,STRATHCLYDE 1
        10 918.84  201.68/ 692.61   4.2 2.7                 56.085   -5.188     2
 20 38 291 0.11  0.9  1.0 C A*D                                                  3
EAB Z 100928.30        P 0IU34.88        S 3E                                  54
ELO Z 100935.50        P 1IU47.82        S 3E                                 101
EBH Z 100936.40        P 1IU49.00        S 3E                                 106
EAU Z 100937.29        P 1IU51.12        S 3E                                 111
EDI Z 100939.50        P 2E 55.50        S 2EU 5.0H0.16M                      126
EBL Z 100941.31        P 2EU57.61        S 3E 20.5H0.22M     0.25 200  139
EDU Z 100941.70        P 3E 58.51        S 3E                                 144
ESY Z 100944.29        P 3E 63.52        S 3ED19.0H0.20M     0.25 200  162
PMS Z 100925.72        P 0IU31.05        S 3E                                  38
PGB Z 100928.31        P 1IU35.11        S 3E                                  54
PGB NS1009                ID               E  5.5H0.11ML     10.0 200   54
PGB EW1009                IU               E  5.0H0.17ML     10.0 200   54
PCO Z 100930.71        P 1IU                                                 69
PCA Z 100931.09        P 1IU39.97        S 3E                                 72
ESK Z 100942.8         P 3E 60.08        S 2EU                               151
ESK NS1009                E                E  8.6H0.15ML     2.5  200  151
ESK EW1009                E                E  9.1H0.17ML     2.5  200  151
ECK Z 100944.95        P 3E                                                  164
XSO Z 100949.4         P 3E                                                  196
EDI NS1009                E                E  9.4H0.21ML      2.5 200  126
EDI EW1009                ED               E  6.2H0.19ML      2.5 200  126
      -1
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101288 LOWNET    LN 621   1112      12.5      5.0DWR/DG LLOCH FYNE,STRATHCLYDE 1
       153727.48  203.82/ 692.34   2.6 1.1                  56.084   -5.153    2
 14 37 288 0.24  2.4  2.7 C B*D                                                 3
EAB Z 153736.56       P 1IU43.00       S 3E                        0.25 200   52
ELO Z 153744.20       P 2E 55.79       S 3E                                   99
EBH Z 153745.35       P 2E 57.87       S 3E                                  104
EAU Z 153746.32       P 2E                                                   109
EDI Z 153747.30       P 4E 62.92       S 3E  1.6H0.19M             0.25 200  124
EDI NS1537               E                E  3.5H0.20ML            0.25 200  124
EDI EW1537               E                E  2.3H0.17ML            0.25 200  124
PMS Z 153734.10       P 2ED38.98       S 3E                                   37
PGB Z 153736.87       P 3E 43.69       S 2ED                                  52
PGB NS1537               E                ED12.8H0.10ML            0.25 200   52
PGB EW1537               E                E 11.0H0.10ML            0.25 200   52
PCO Z 153739.21       P 2ED                                                  67
PCA Z 153739.41       P 2E 48.26       S 3E                                   71
     -1
121288 LOWNET    LN 621   1880      12.5      5.0DWR/DG LPETERLEE,DURHAM       1
       225319.70  446.45/ 542.83   1.7 1.5                  54.778   -1.278    2
 14 61 313 0.35  9.8  6.8 D D*D COALFIELD TYPE                                  3
ESY Z 225344.42       P 2E 63.25       S 3E                        0.25 200  153
EBL Z 225344.95       P 2E 64.60       S 3E                                  158
EDI Z 225347.6        P 4E 68.58       S 3E  1.5H0.4 M             0.25 200  176
EDI NS2253               E                E  2.5H0.4 ML            0.25 200  176
EDI EW2253               E                E  2.5H0.4 ML            0.25 200  176
EAU Z 225349.3        P 3E 71.8        S 3E                                  182
EBH Z 225357.3        P 4E                                                   216
XAL Z 225330.45       P 2E 38.23       S 2E                                   61
XSO Z 225336.29       P 3ED48.55       S 3E                                  101
ECK Z 225340.93       P 2E 56.60       S 3E                                  127
ESK Z 225342.31       P 2E 58.10       S 3E                                  137
ESK NS2253               E                E  4.3H0.18ML            0.25 200  137
ESK EW2253               E                E  3.1H0.18ML            0.25 200  137
     -1
161288 KYLE                           12.5     5.0BS      LGLENELG,HIGHLAND      1
        750 4.05  185.43/ 814.83   4.9 0.5                  57.174   -5.550    2
 10  9 180 0.11  0.7  0.8 B A*C                                                 3
EAB Z 075025.48       P 2E 40.19       S 3E  1.6H0.08ML            0.25 200  133
KPL Z 075007.80       P 1EU10.63       S 3E                                   19
KPL NS0750                                  02.5H0.12ML            01.0 200   19
KPL EW0750                                  06.4H0.17ML            01.0 200   19
KSB Z 075006.00       P 1ED07.60       S 3E                                    9
KAC Z 075011.30       P 2EU16.21       S 3E                                   39
PMS Z 075028.86       P 2ED47.48       S 3E                                  156
     -1
171288N WALES                                  5.0RITCHIELLLEYN PEN,GWYNEDD     1
       11 140.68  237.38/ 343.18  21.6 0.8                  52.961   -4.421    2
 12  2 129 0.06  0.5  0.5 B A*B AFTERSHOCK                                      3
YRE Z 110144.1        P 3E 46.62       S 1                                     2
WLC Z 110148.5        P 2E 53.89       S 1                                    43
WLC NS1101                                  9.7 H0.15ML            0.25 200   43
WLC EW1101                                  7.5 H0.08ML            0.25 200   43
YRH Z 110145.41       P 1IU48.7        S 2                                    20
WBR Z 110147.60       P 1IU52.35       S 1                                    37
WST Z 110146.59       P 1IU50.53       S 2                                    29
WFB Z 110148.25       P 2E 53.08       S 3                                    40
     -1
171288 LOWNET    LN 622   1107      12.5      5.0DWR     LTILLICOULTRY,CENTRAL  1
       1515 9.29  294.55/ 695.92   0.5 1.0                  56.144   -3.697    2
  9 16 121 0.12  0.3  0.4 B A*C COALFIELD TYPE                                  3
EBH Z 151512.80       P 0IU15.74       S 2ED                       0.25 200   17
ELO Z 151516.20       P 1EU21.53       S 3E                                   36
EAU Z 151516.42       P 1EU                                                  37
EAB Z 151516.88       P 2E 22.69       S 3E                                   40
EDI Z 151516.32       P 3E 22.60       S 3E  2.5H0.5 M             0.25 200   40
EDI NS1515               E                E  3.3H0.6 ML            0.25 200   40
EDI EW1515               E                E  4.0H0.5 ML            0.25 200   40
EDU Z 151520.55       P 2ED29.11       S 3E                                   62
     -1
171288KEYWORTH   KW 033             12.5      5.0JAR     LDONCASTER,S YORKSHIRE 1
       153528.46  454.21/ 402.41   3.7 1.6                  53.515   -1.182    2
  8 26 130 0.02  0.2  0.3 B A*C                                                 3
KBI Z 153535.18       P 2E 40.97       S 4                                    37
KSY Z 153540.88       P 3E                                                   73
KWE Z 153540.58       P 3E                                                   71
BUR Z 153533.40       P 2IU                                                  26
HPK Z 153538.43       P 2ED45.64       S 3                                    57
HPK EW1535                                  4.0H0.23ML              1.0 200   57
BMY Z 153538.55       P 2EU45.79       S 3                                    58
     -1
191288 LOWNET    LN 622   1607      12.5      5.0DWR     LGIFFORD,LOTHIAN       1
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        31926.29  352.69/ 664.41   0.5-0.6                    55.871   -2.756    2
  6 10 180 0.22  2.2  2.4 C B*C                                                    3
ESY Z 031928.69        P 1IU30.69        S 2E  4.0H0.10M            0.25 200   10
EBL Z 031930.82        P 2E 34.08        S 3E  1.5H0.11M            0.25 200   21
EDI Z 031931.71        P 3E 36.67        S 3E                                   28
EDI NS0319                E                 E  0.9H0.11ML           0.25 200   28
EDI EW0319                E                 E  1.0H0.12ML           0.25 200   28
      -1
221288N WALES                                    5.0RITCHIELLLEYN PEN,GWYNEDD     1
        84743.45  239.88/ 343.35  23.1 0.8                  52.963   -4.384    2
 12  3 144 0.04  0.2  0.3 B A*C AFTERSHOCK                                        3
WLC Z 084751.02        P 1IU56.2         S 2                                    41
WLC NS0847                                    13.6H0.09ML           0.25 200   41
WLC EW0847                                    12.9H0.09ML           0.25 200   41
YRH Z 084748.6         P 1ID52.11        S 2                                    22
YRC Z 084750.19        P 2E 54.82        S 2                                    34
YRE Z 084747.2         P 1ID49.81        S 3                                     3
WLF Z 084750.3         P 2E 55.1         S 3                                    36
YLL Z 084748.8         P 1IU52.5         S 2                                    24
      -1
221288KEYWORTH+  KW 034             12.5       5.0JAR    LANNESLEY,NOTTS        1
       173625.90  451.01/ 351.97   4.2 1.6                  53.062   -1.239    2
  6 29 159 0.05  1.2  4.0 C B*C                                                   3
KBI Z 173631.30        P 1ID35.06        S 3                                    29
KWE Z 173633.29        P 2ED                                                    41
KSY Z 173634.00        P 3E 39.80        S 3                                    45
HPK Z 173640.50        P 4E 55.88        S 3                                   103
HPK EW1736                                    9.5H0.18ML            0.25 200  103
      -1
241288 LOWNET    LN 623   1010      12.5       5.0DWR    LLOCH FYNE,STRATHCLYDE 1
        84456.16  202.58/ 692.07   0.5 0.7                  56.081   -5.173    2
 13 37 290 0.11  4.5  3.1 D C*D                                                   3
EAB Z 084505.82        P 2E 11.71        S 3E  5.8H0.10M            0.25 200   53
ELO Z 084513.27        P 3E 25.90        S 3E  3.1H0.15M            0.25 200  100
EBH Z 084514.22        P 3E 26.92        S 3E                                  105
PMS Z 084503.33        P 2EU08.64        S 3E                                   37
PGB Z 084505.91        P 2E 13.09        S 3E                                   53
PGB NS0845                E                 E  5.6H0.11ML           0.25 200   53
PGB EW0845                E                 E  5.5H0.09ML           0.25 200   53
PCO Z 084508.45        P 2ED                                                    68
PCA Z 084508.72        P 3E 17.99        S 3E                                   71
      -1
241288 LOWNET    LN 623   1010      12.5       5.0DWR    LLOCH FYNE,STRATHCLYDE 1
        84518.41  201.61/ 692.07   0.5 0.4                  56.080   -5.189    2
 10 38 291 0.42 22.0 16.1 D D*D                                                  3
EAB Z 084528.42        P 3E 35.03        S 3E  2.2H0.09M            0.25 200   54
ELO Z 084535.02        P 3E 49.50        S 3E  2.0H0.09M            0.25 200  101
EBH Z 084536.91        P 3E 49.92        S 3E                                  106
PMS Z 084525.70        P 3E 31.12        S 3E                                   38
PGB Z 084528.24        P 3E 35.33        S 3E                                   54
PGB NS0845                E                 E  3.4H0.09ML           0.25 200   54
PGB EW0845                E                 E  2.3H0.08ML           0.25 200   54
      -1
291288 ESK       ES 400            12.5       5.0DG     LJOHNSTONEBRIDGE,D & G 1
       161853.16  311.08/ 592.11   1.7 0.8                  55.215   -3.398    2
  4 17 305 0.08  0.0  0.0 C A*D                                                   3
ESK Z 161856.02        P 0IU58.36        S 2ED                                  17
ESK NS1618                IU                ED13.5H0.11ML           1.0  200   17
ESK EW1618                IU                ED15.1H0.10ML           1.0  200   17
ECK Z 161856.34        P 0IU58.49        S 1ID                                  18
      -1
311288KEYWORTH+  KW 035             25.0       5.0JAR    LMANCHESTER            1
        53657.13  379.77/ 402.31   2.4 1.9                  53.517   -2.305    2
 23 31 129 0.21  0.6  1.0 C B*C                                                   3
KBI Z 053707.38        P 1IU                                                    59
KWE Z 053708.50        P 2EU                                                    64
KSY Z 053719.16        P 3E                                                    130
PAPBZ 053702.63        P 0ID06.58        S 3                                    31
PAPAZ 053706.36        P 1IU13.09        S 3                                    53
PAPANS0537                                     6.0H0.26ML            1.0 200   53
PAPAEW0537                                    14.6H0.23ML            1.0 200   53
PAPCZ 053706.51        P 1ID13.17        S 3                                    53
PAPDZ 053708.28        P 2ED                                                    63
PAPEZ 053711.01        P 2ED20.40        S 3                                    80
PAPENS0537                                     2.6H0.13ML            1.0 200   80
PAPEEW0537                                     3.6H0.18ML            1.0 200   80
SBD Z 053712.83        P 3E                                                     93
HLM Z 053716.91        P 3E                                                    118
MCH Z 053725.74        P 3E 45.35        S 3                                   175
WLC Z 053716.01        P 3E 29.85        S 3                                   114
WLC NS0537                                    18.6H0.28ML           0.25 200  114
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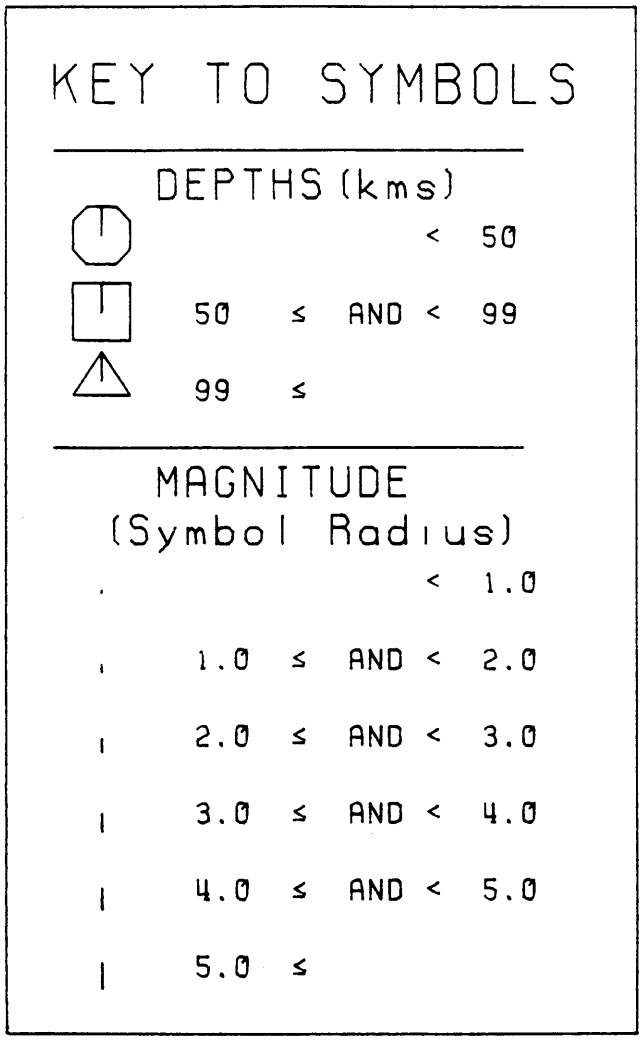
WLC EW0537                                    15.5H0.25ML          0.25 200  114
WPM Z 053715.61        P 2EU                                                  110
YLL Z 053718.82        P 3E                                                   131
WLF Z 053720.19        P 3E                                                   141
WCB Z 053721.55        P 3E 38.99        S 3E                                 150
      -1
311288N WALES                                  5.0RITCHIELWEXFORD,EIRE          1
       135337.15   77.97/ 286.66   0.7 1.8                 52.383   -6.733     2
 17 34 273 0.27  2.7  3.0 D C*D                                                3
WCB Z 13546.7          P 2E 27.09        S 3                                  184
WCB NS1354                                     9.0 H0.1 ML          0.25 200  184
WCB EW1354                                     6.5 H0.11ML          0.25 200  184
YRC Z 13544.59         P 3E 24.62        S 3                                  175
YRE Z 13543.90         P 2E                                                   170
WLF Z 13546.6          P 2E                                                   187
WME Z 13548.78         P 2E                                                   199
YLL Z 13547.70         P 2E                                                   192
ECP Z 135343.0         P 1ID46.9         S 2                                   34
ETA Z 135345.3         P 1IU51.2         S 2                                   50
WLC Z 13549.3          P 4E 32.70        S 3E                                 211
WLC NS1354                                     5.9 H0.17ML          0.25 200  211
WLC EW1354                                     5.0 H0.11ML          0.25 200  211
YRH Z 13541.22         P 3E 19.42        S 2E                                 151
WBR Z 13549.18         P 2E                                                   200
WFB Z 13546.33         P 3E                                                   186
      -1
```

TABLE 6 Typical depth / crustal velocity model 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

Vp/Vs = 1.73



KEY TO EPICENTRE MAPS, FIGURES 3 TO 6.

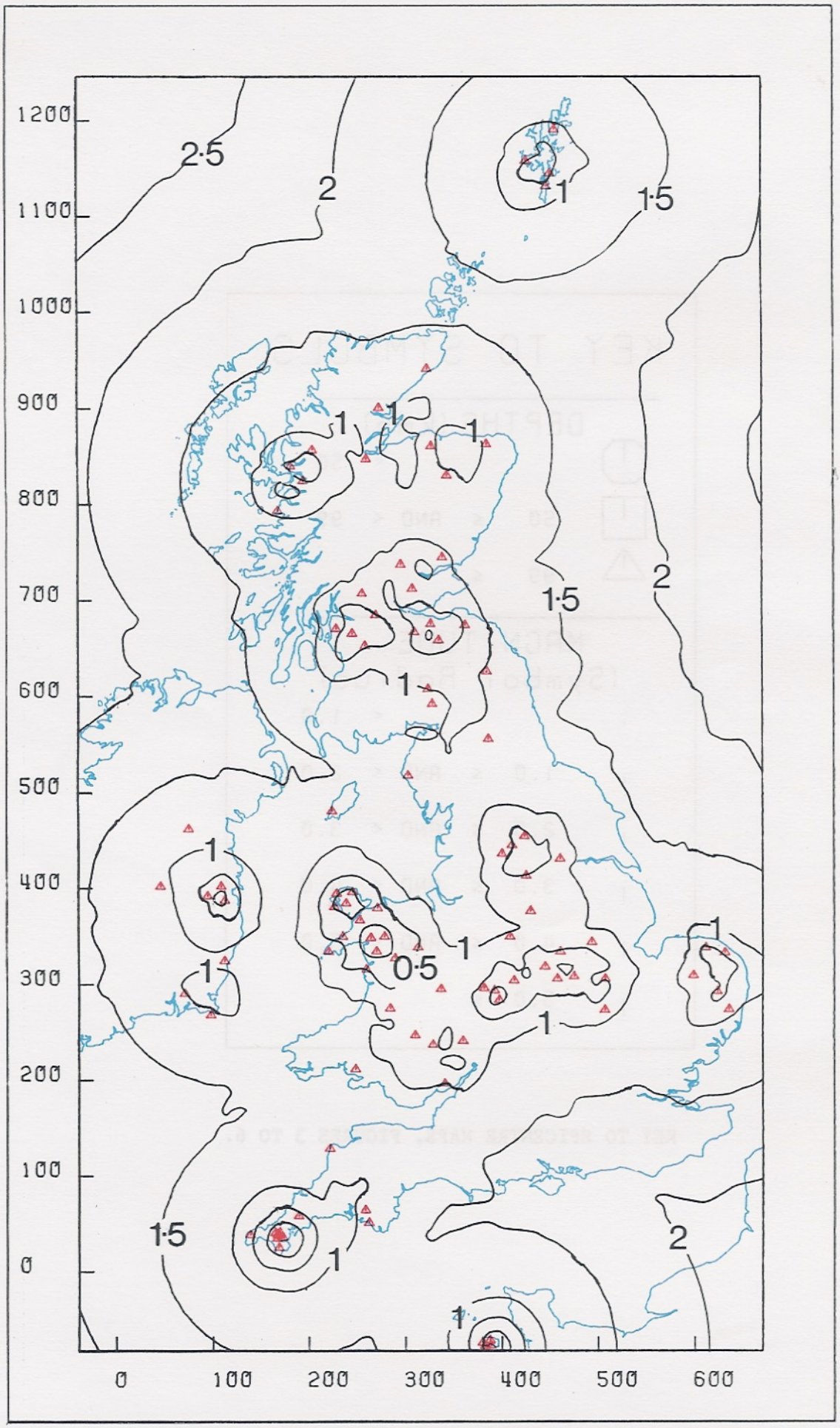


Fig.1 : BGS and DIAS seismographs (▲) 1988, and their detection capabilities for magnitudes in 0.5ML steps, with average noise conditions

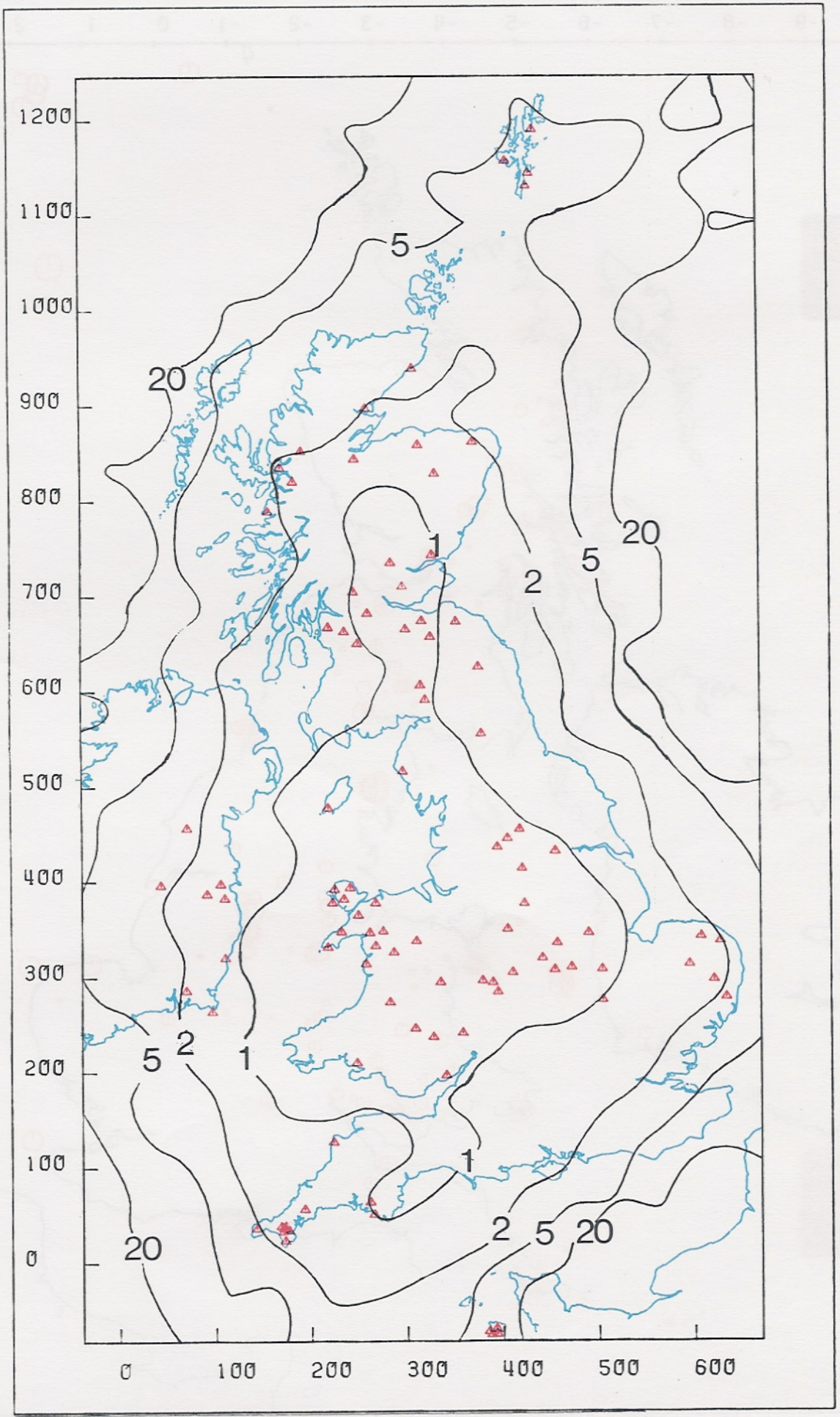


Fig.2 : Theoretical epicentral location errors in km for a magnitude 2.0ML earthquake

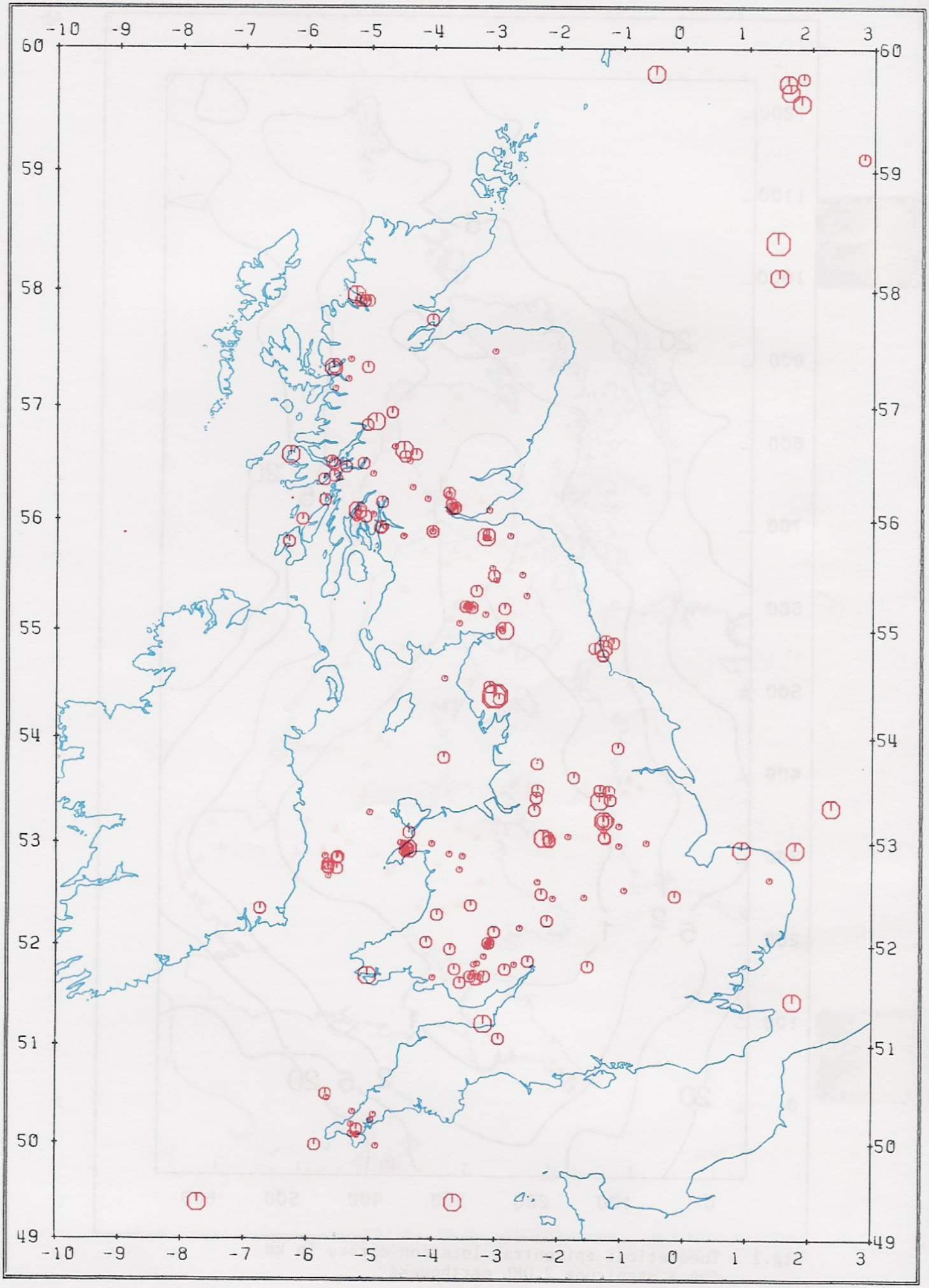


Fig.3 : Epicentres of all earthquakes, 1988

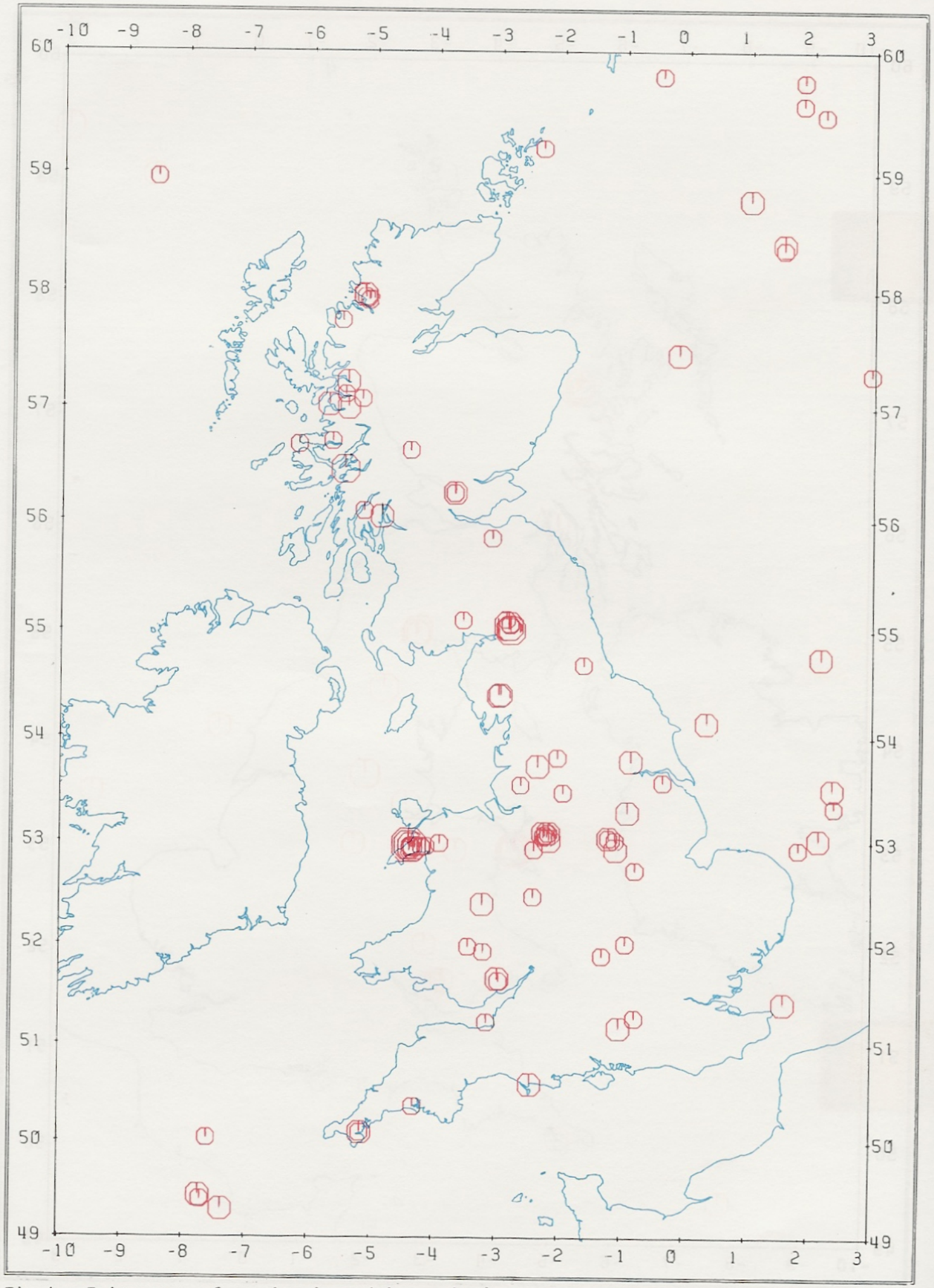


Fig.4 : Epicentres of earthquakes with magnitudes 2.5ML or greater, 1979-88

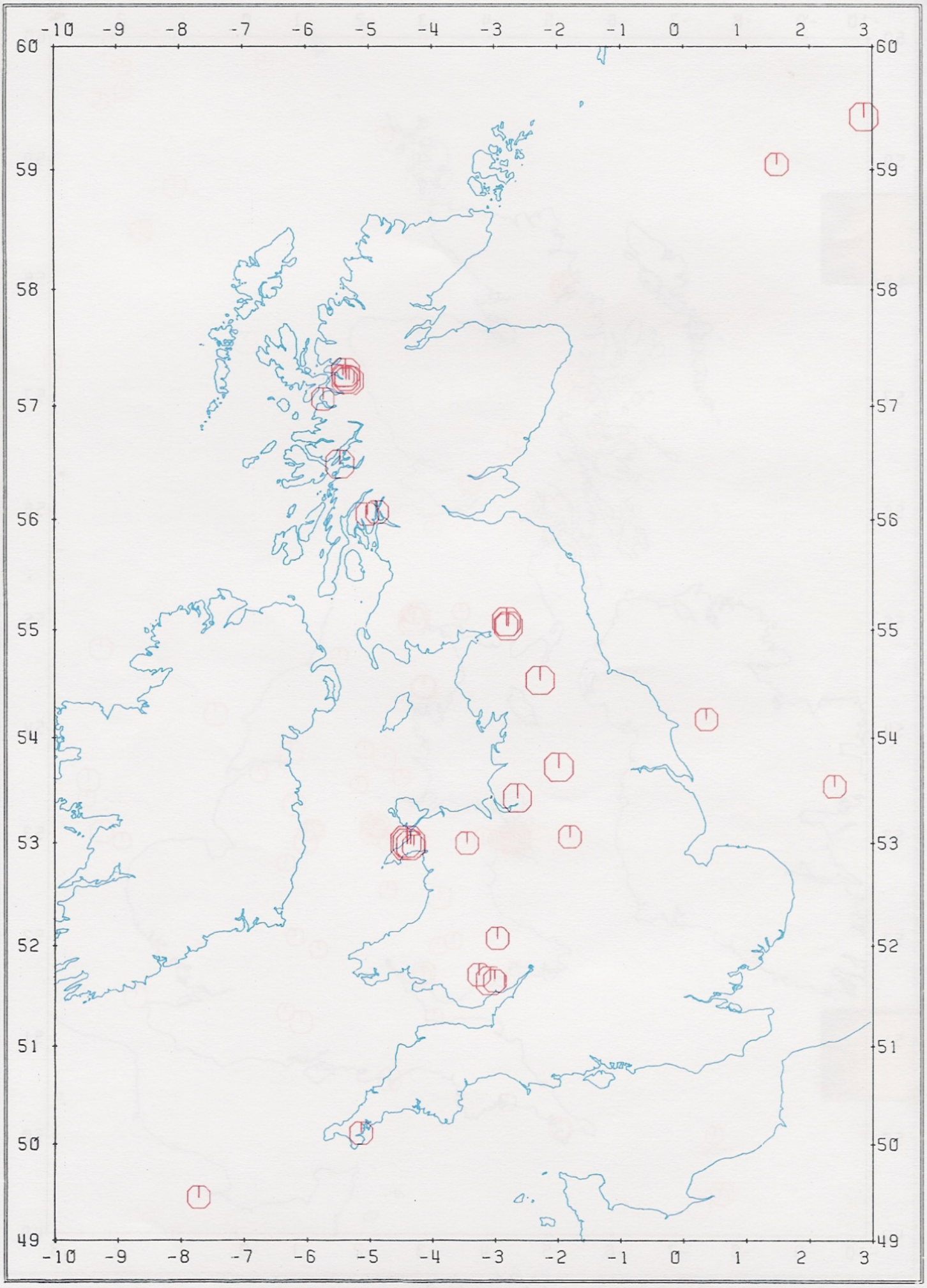


Fig.5 : Epicentres of earthquakes with magnitudes 3.5ML or greater, 1969-88

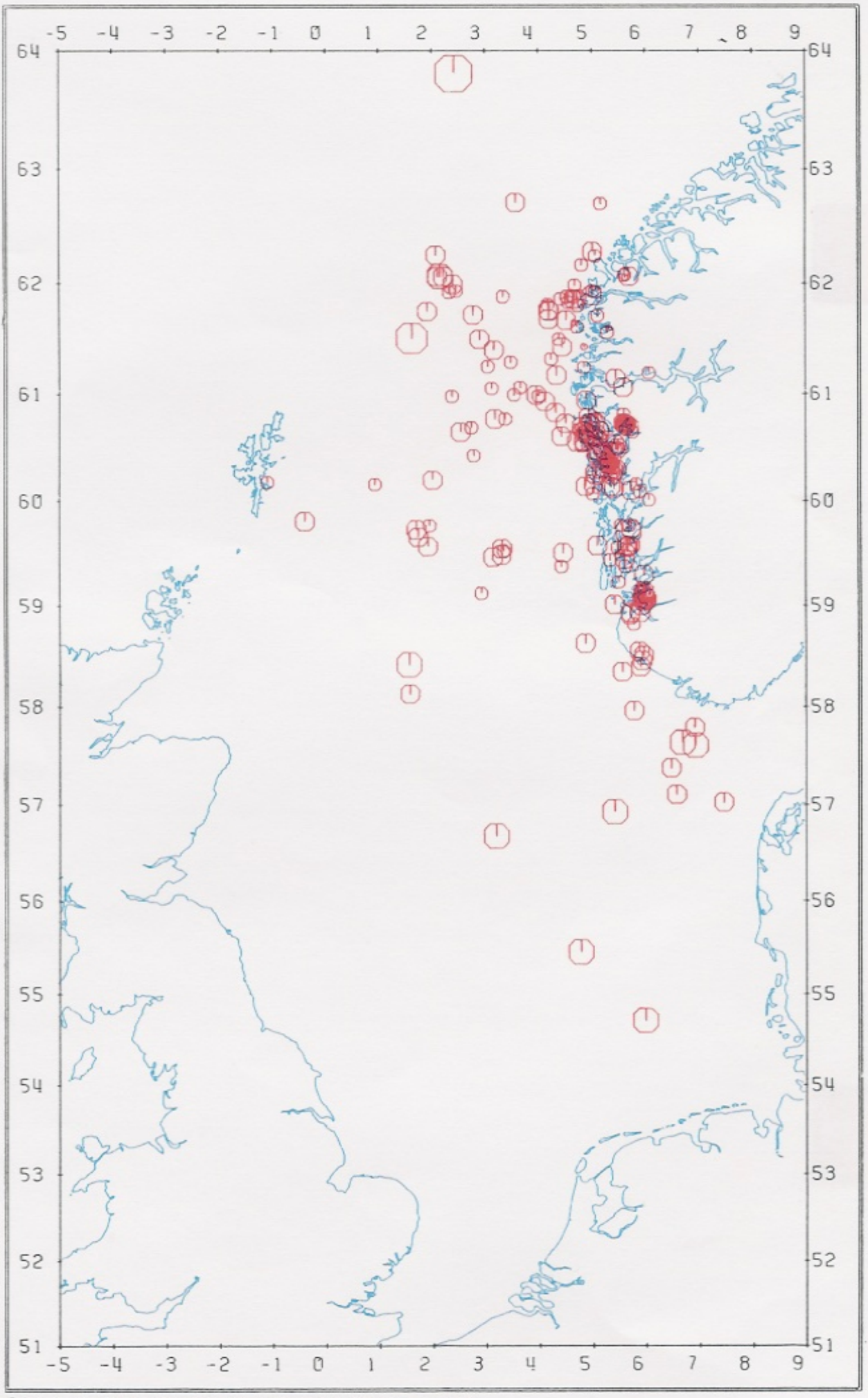
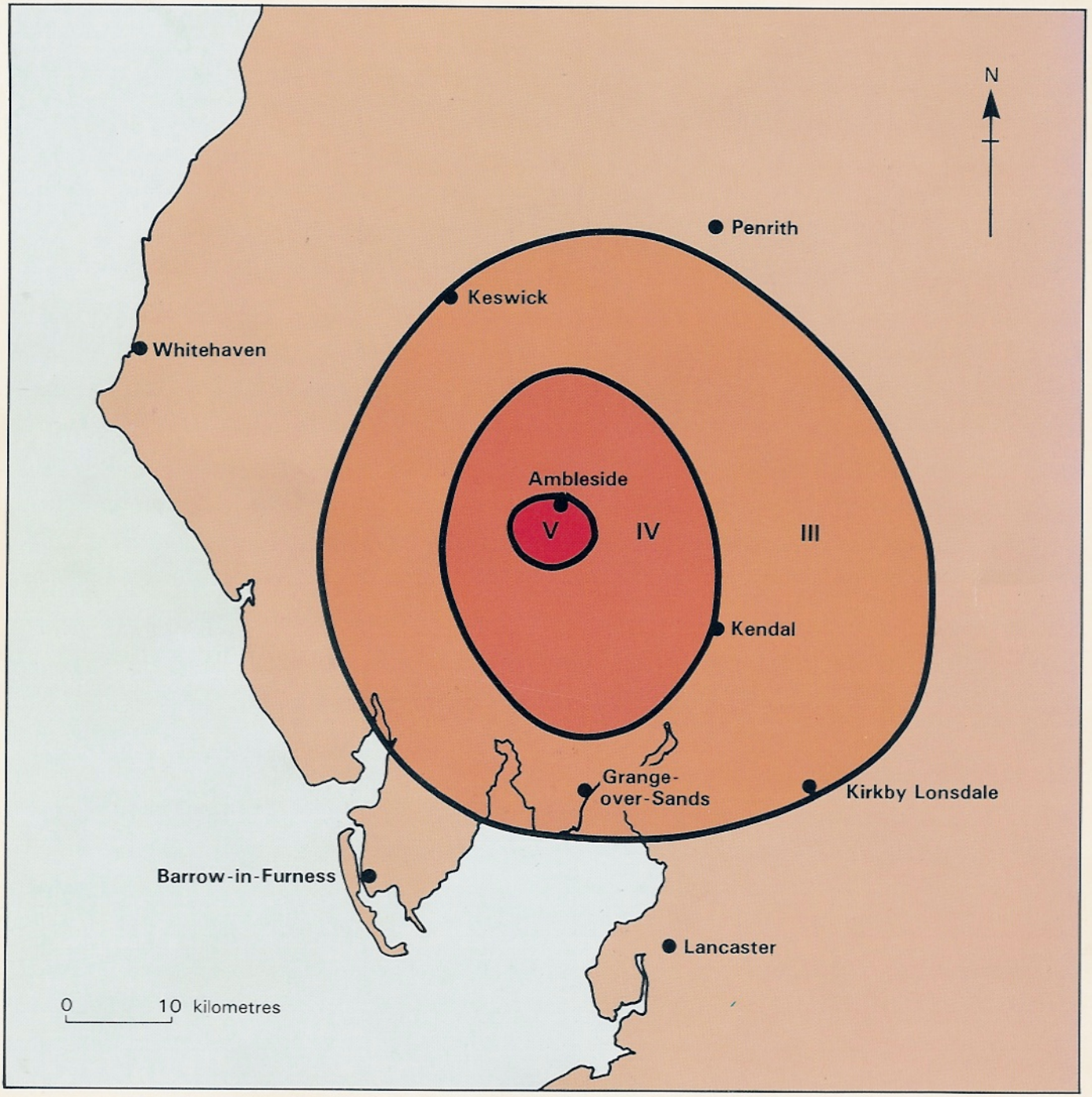


Fig.6 : Epicentres in the North Sea, 1988

Natural Environment Research Council



Ambleside Earthquake 12th September 1988 14.23 GMT (3.2ML)-MSK INTENSITIES