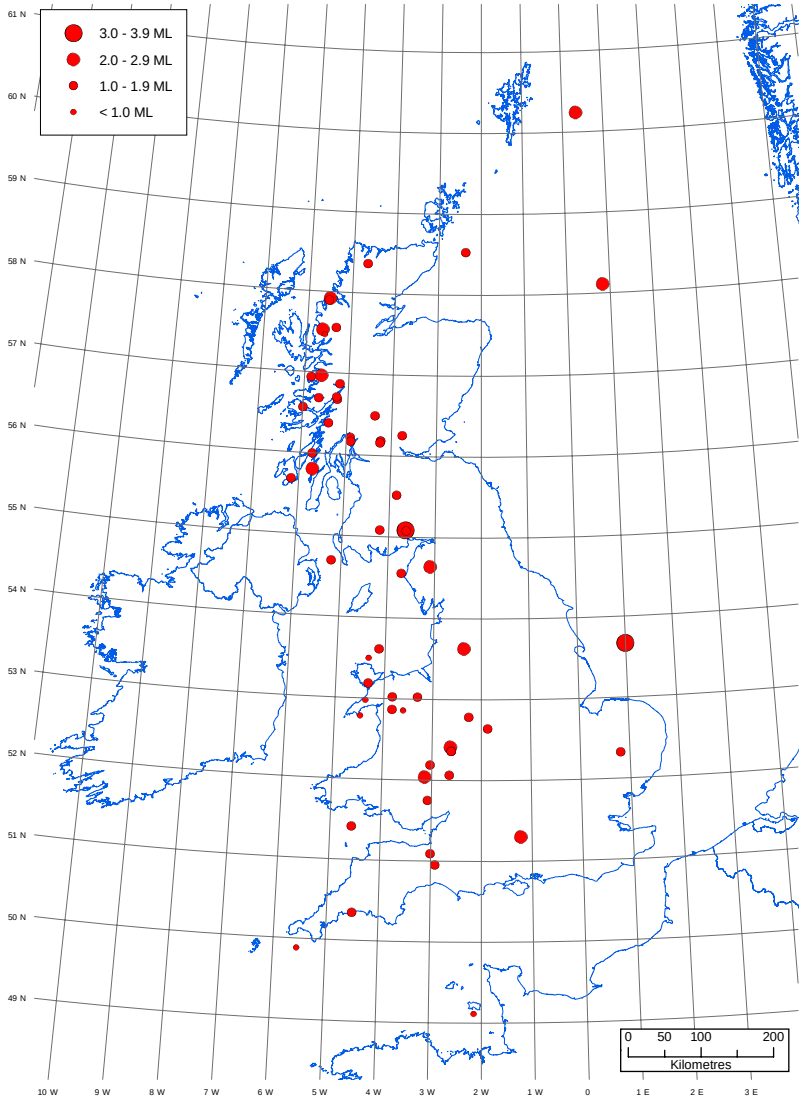
BRITISH GEOLOGICAL SURVEY

REPORT OR/07/003

Bulletin of British Earthquakes 2006

B.A. Simpson (Editor)

Contributors: J Bukits, G D Ford, and D D Galloway



Bibliographical reference

SIMPSON, B.A. 2007. Bulletin of British Earthquakes 2006.*British Geological Survey Internal Report, OR/07/003*

Edinburgh British Geological Survey 2007

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1 Introduction

The British Geological Survey's (BGS) Seismic Monitoring and Information Service operate a nationwide network of seismograph stations in the United Kingdom (UK). Earthquakes in the UK, and coastal waters, are detected within limits dependent on the distribution of seismograph stations. Location accuracy is improved in offshore areas through data exchange with neighbouring countries. This bulletin contains locations, magnitudes and phase data for all earthquakes detected and located by the BGS during 2006, listed in Tables 1 and 2. Maps showing seismic activity in 2006 (Figure 8), and the larger magnitude events since 1979 (ML> 2.5) and since 1970 (ML> 3.5) are also included. The bulletin covers all of the UK land mass and its coastal waters including the North Sea to 800 kmE and 1500 kmN.

All events believed to be of true tectonic origin are included. No coalfield events were detected during the year. Acoustic disturbances, such as sonic booms from supersonic aircraft, are included when they are felt. The air-borne waves are readily identified by their slow travel time across an array or by their signature on a microphone but they are frequently mistaken as small earthquakes by the public. They are indicated by 'SONIC' in both the locality and comments column of Table 1.

Significant non-natural events, such as explosions, which received media attention or were greater than magnitude 2.5 ML or felt by local residents, are also included in Table 1. Smaller events that are known, or suspected to be of explosive origin are excluded from the bulletin where possible. These include explosions due to quarrying, mining, weapon testing or disposal, naval exercises, geophysical prospecting and civil engineering. Unfortunately, identification by record character, location and time of occurrence is not always conclusive and some man-made events may be included in the bulletin or, more rarely, a small natural event may have been excluded.

2 The BGS UK Seismograph Network

The UK seismograph network consists of a number of sub-networks, which, in turn, consist of up to ten 'outstation' vertical seismometers radio-linked over distances of up to 100 km to a central site. Here, the data, along with that from a local 3-component set of two horizontal and one vertical seismometer, are recorded digitally by SDAS or the SEISLOG data acquisition system (Utheim and Havskov, 1993). The system records data continuously, but also creates event-triggered files. The sub-networks are accessed for data transfer to Edinburgh several times a day through Internet or dial-up modems. Once transferred, the events are analysed to determine location and magnitude. At a number of sites, low-gain vertical seismometers are installed to extend the dynamic range of the system (by 34 dB) to stronger motions, and low frequency microphones are used to aid the discrimination of sonic booms. In addition, strong motion accelerometers have been installed at locations throughout the country and record accelerations up to 0.1g. At present the seismic network is undergoing an upgrade with the installation of broadband seismometers that record with a larger dynamic range and over a wider frequency band. Data from these together with some short-period data is transmitted and processed at the central recording site in Edinburgh in real time. Operational seismograph stations in December 2006 are shown in Figure 9.

The detection capabilities of a network depend upon station distribution, instrument sensitivity and background noise levels. Figure 10 shows the magnitude detection thresholds for the

seismograph stations operational in December 2006. The contours illustrate the lower threshold magnitude for an earthquake to significantly exceed 4 nanometres of noise (average) at 10 Hz on at least four seismographs. These detection levels hold true only if data from all stations are continuously monitored. Small events may go undetected unless they are felt and reported to BGS by local inhabitants, so the detection capabilities of this process are strongly dependent on the population density.

The whole of the UK is covered by the seismograph network for approximately magnitude 1.5 ML, and above, at times of average ambient noise levels. Noise sources such as wind, ocean waves and traffic vary considerably with time (typically 0.5 to 15 nanometres, at 10 Hz) causing the magnitude thresholds to increase or decrease. In conditions of high noise, 0.8 ML should be added to the contour values, causing the threshold to rise to about 2.3 ML. Normally, however, an earthquake of this size would be felt, if not detected, in the areas of poorer instrumental coverage. The bulletin can, therefore, be assumed to be complete for all earthquakes of magnitude 2.3 ML and above.

Given the variability in the earthquake detection threshold, as governed by ambient noise conditions and the geometry of the observing network, the bulletin is biased towards certain localities. Figure 11 shows only earthquakes with magnitude 2.5 ML or greater, in the period 1979 to 2006. The data set is considered complete for these magnitudes in all localities onshore. Seismicity for the period 1970 to 2006 is shown in Figure 12 with a threshold magnitude of 3.5 ML. This is the period covered by BGS instrumentation that, in the early years, only consisted of the network around Edinburgh (LOWNET) and Eskdalemuir (ESK) and a station near Kyle of Lochalsh (KYL). The data set is likely to be complete for such magnitudes.

3 Earthquake Parameters and Their Errors

EPICENTRE LOCATION

By accurately timing the signal onsets at a minimum of three stations, a location can be found for an earthquake that satisfies the observed pattern of arrivals. Instrumental locations in the bulletin were obtained using the computer program HYPOCENTER (Lienert and Havskov 1995) that iteratively adjusts a trial hypocentre (latitude, longitude, depth, and origin time) until the observed and computed arrival times coincide closely.

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

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. Depth is usually only well constrained when there is a station very close to the epicentre.

The best depth determinations are obtained when an earthquake or earthquake series occurs almost beneath a network. For events at larger distances the depth errors can be many kilometres. Where the depth error, ERZ in Table 1, is 0.0, this indicates that the depth has been fixed in the hypocentre calculation. This is the case for explosions, which are known to occur at the surface, and for events at larger distances, where depth control is poor.

MAGNITUDE

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

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

Where A is the maximum deflection (centre to peak in mm) registered 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 km, and later adjusted to include up to 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 worldwide today. The ML magnitudes in this bulletin have been calculated according to Richter's formula after 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 is not possible, the mean of the magnitudes from a number of verticals are used. Ground motion registered at a seismograph varies with site conditions, distance and direction from the earthquake, and the nature of the ray path. Consequently, it is important to take the mean from a good distribution of stations. The resulting errors on magnitudes quoted in the bulletin will normally be less than 0.4 ML.

INTENSITY

Intensity is a measure of the effect of the shaking produced by the earthquake on people, structures and objects. It decreases with distance from a maximum value (Imax) usually found close to the epicentre. The maximum felt intensity is quoted, where known, with reference to the European Macroseismic Scale (EMS), (Grünthal, 1993).

4 Summary of 2006 Seismicity

There were 64 earthquakes located by the monitoring network during the year, with 15 having magnitudes of 2.0 ML or greater and four having magnitudes of 3.0 ML or greater. Three events with a magnitude of 2.0 ML or greater were reported felt, together with a further four smaller ones, bringing the total to seven felt earthquakes in 2006.

The largest onshore earthquake of the year with a magnitude of 3.5 ML occurred approximately 8 km north-north-west of Dumfries on 26 December at 10:40 UTC, at a depth of 8 km. BGS received a number of reports via the media, Dumfries Police and from a number of residents in the Dumfries area of Dumfries & Galloway. The reports described "people came out into the street to see what was going on", "the whole experience was really scary", "the roof slates and timbers rattled and shook" and "I was awoken by a noise and the shaking and swaying of the house". This earthquake was followed by an event with a magnitude of 1.7 ML with a similar location, on 30 December. A macroseismic survey was launched on the BGS 'Earthquakes' web site, which yielded over 300 replies and the resulting map of felt effects is shown in Figure 3. The most distant felt reports were from the southern Glasgow area approximately 100 km away and from the Stranraer area approximately 95 km to the west. The earthquake was felt over an area of 3,600 sq km for isoseismals 3-5. The highest observed intensity was 5 EMS which was observed over an area of approximately 230 sq km. This event locates in a similar location to the magnitude 3.0 ML Dumfries earthquake of 13 May 2001, which was also felt with intensities of 5 EMS.

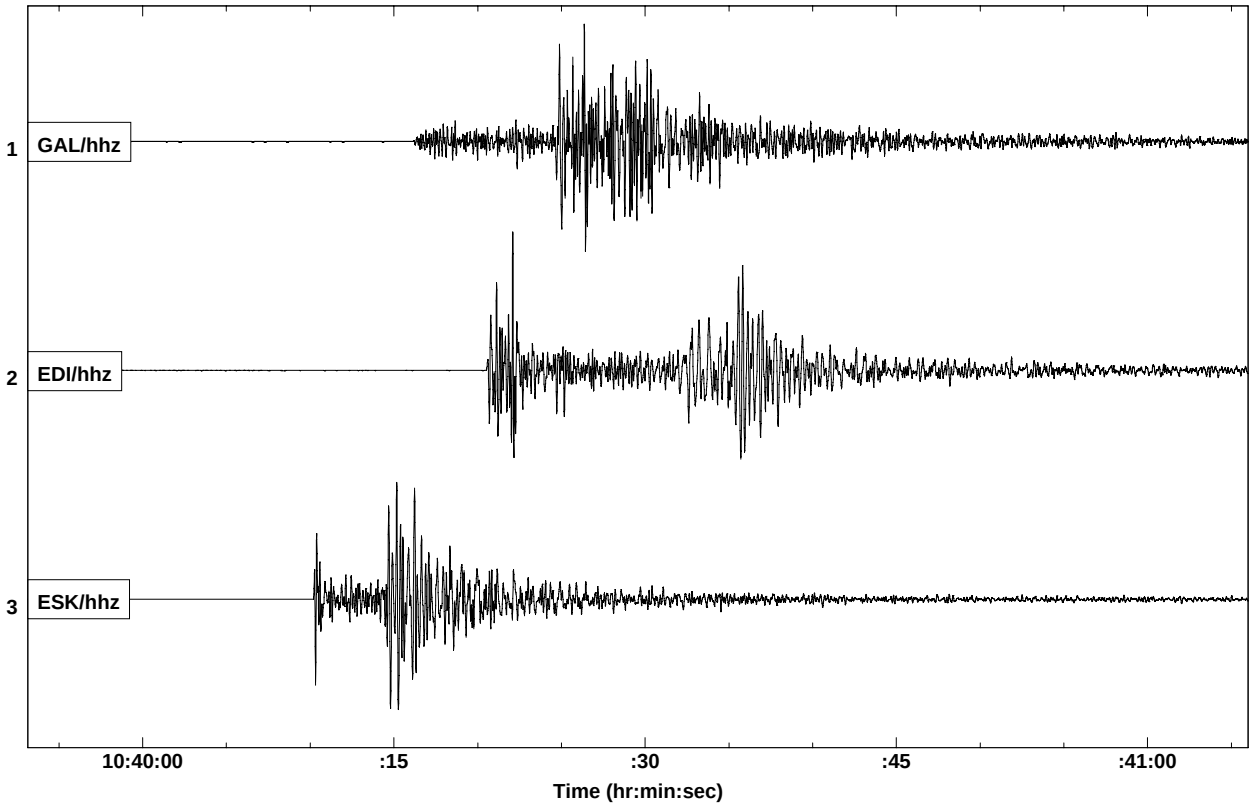

Figure 1. Seismograms of the ground displacement from the Dumfries earthquake, 26 December 2006, recorded by BGS seismograph stations.

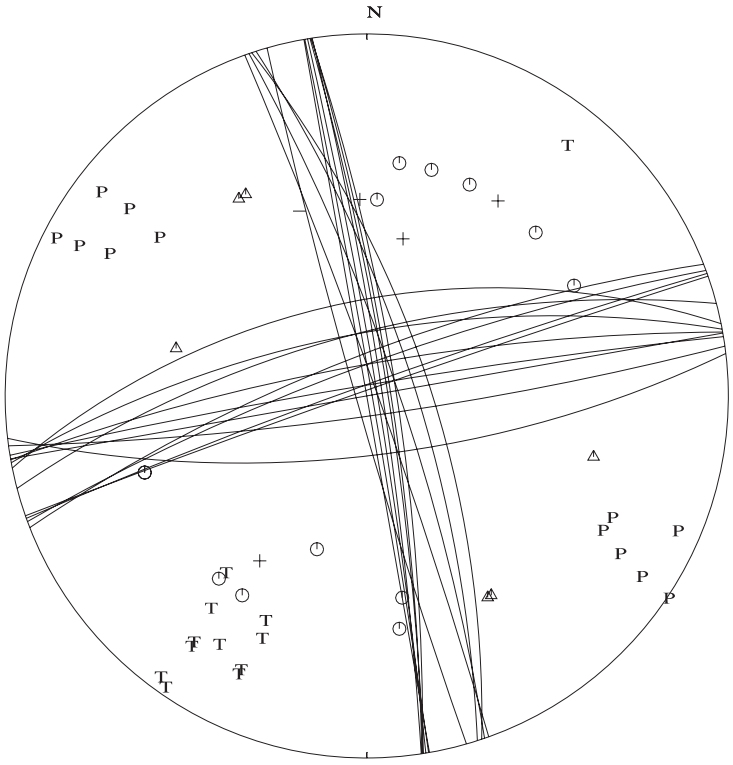

Figure 2. Focal mechanism for the Dumfries earthquake.

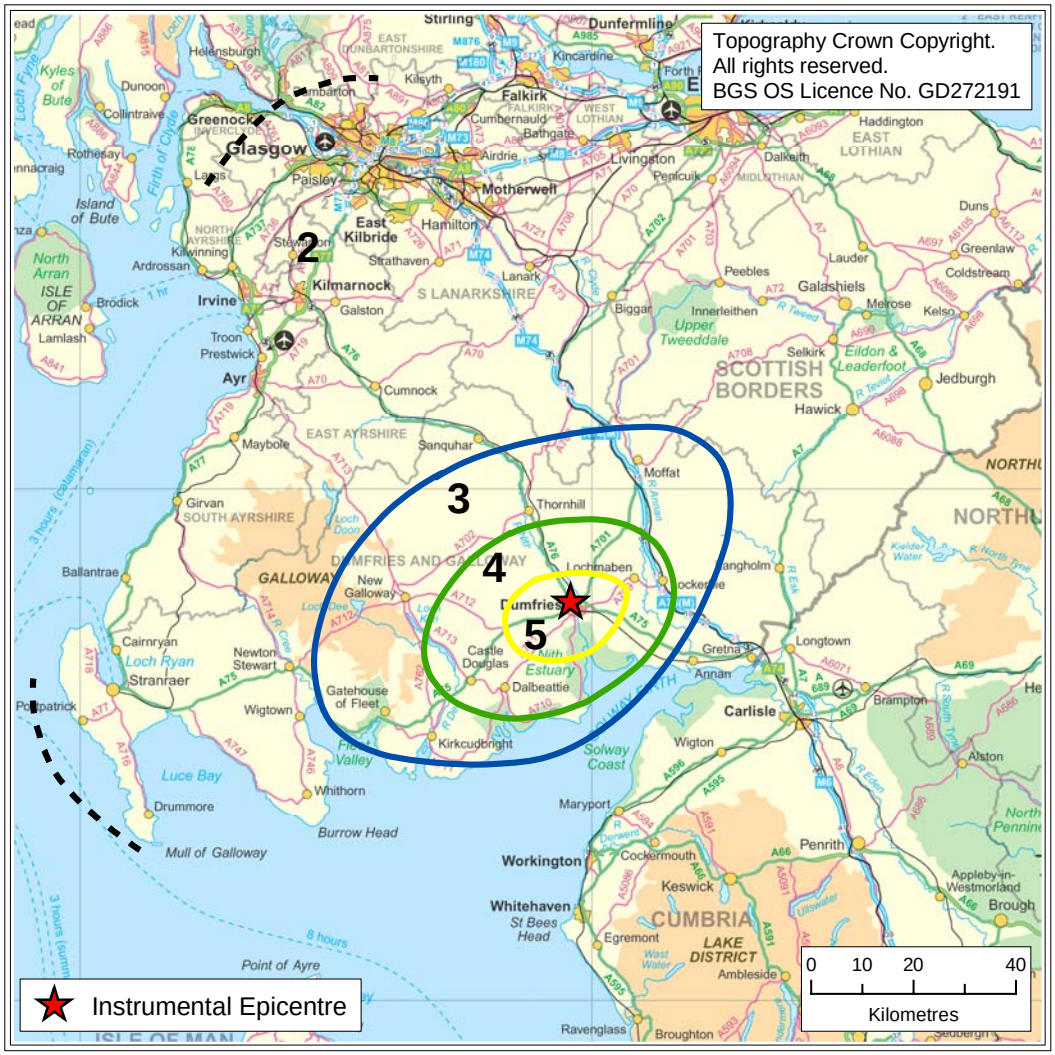

Figure 3. Isoseismal map for the Dumfries earthquake.

A source mechanism for the earthquake was determined The solution shows a strike slip mechanism. Left lateral faulting on a north-northwest south-southeast or right lateral faulting on an east-northeast west southwest fault. Both possible orientations are consistent with previous mechanisms obtained for earthquakes in this area and with observed fault strikes and offsets.

The largest offshore earthquake occurred in the Norwegian Sea on 18 August, with a magnitude of 3.8 ML. It was located approximately 360 km north of Lerwick, Shetland Islands. A further four events occurred in the North Sea and surrounding waters during the year, with magnitudes ranging between 2.3 and 3.3 ML.

On 12 January an earthquake with magnitude of 2.6 ML, occurred near Basingstoke, Hampshire. This earthquake is located in an area where only two other earthquakes have been recorded within 25 km of the epicentre. One with a magnitude of 3.0 ML, which occurred on 19 July 1982, was felt with an intensity of at least 4 EMS. The other event with a magnitude of 2.1 ML occurred on 27 July 1985.

An earthquake with a magnitude of 2.8 ML occurred on 19 January, with a location approximately 10 km east of Mallaig, Highland. The BGS received reports from residents in Mallaig and from Glenfinnan, which described a “loud bang followed by a loud rumbling noise”, indicating an intensity of at least 3 EMS. This event locates approximately 27 km northwest of the magnitude 3.0 ML Fort William earthquake on 10 December 2005, which had a maximum intensity of 4 EMS.

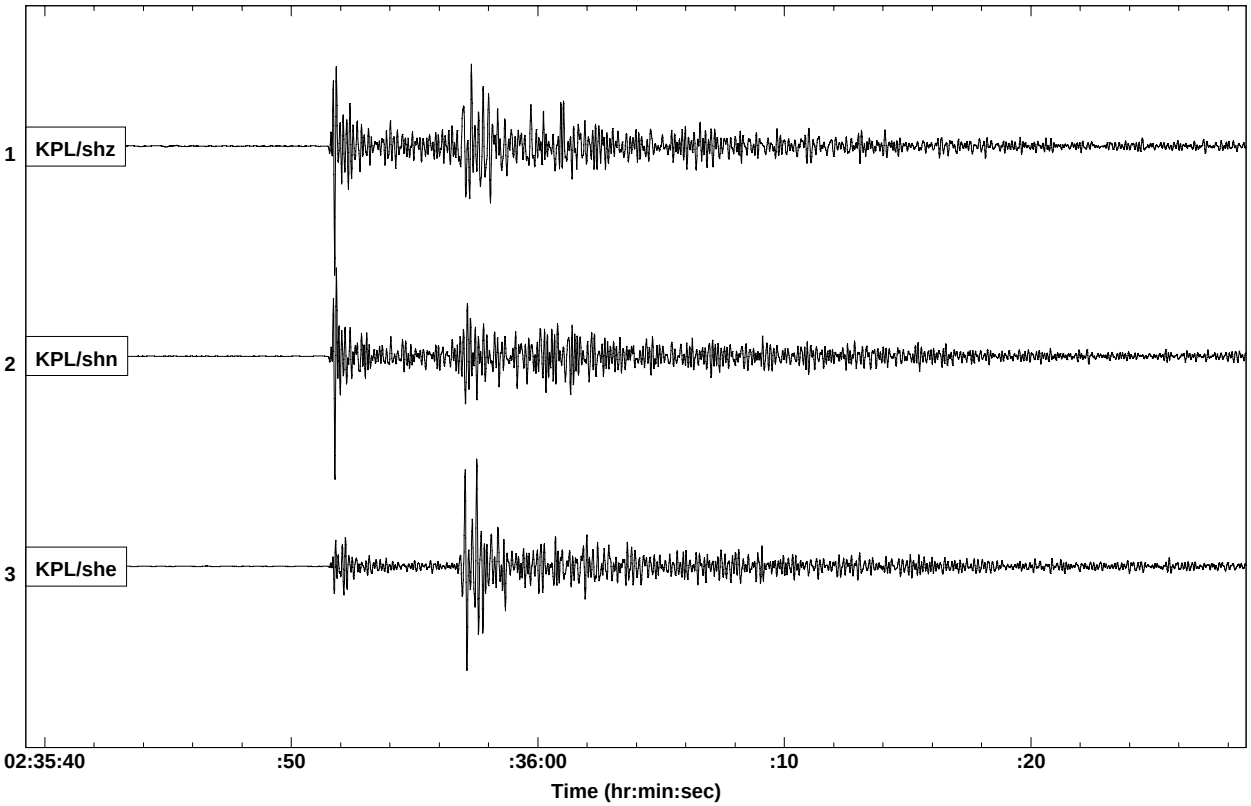

Figure 4. Seismograms of the ground displacement from the Mallaig earthquake, 19 January 2006, recorded by BGS seismograph stations.

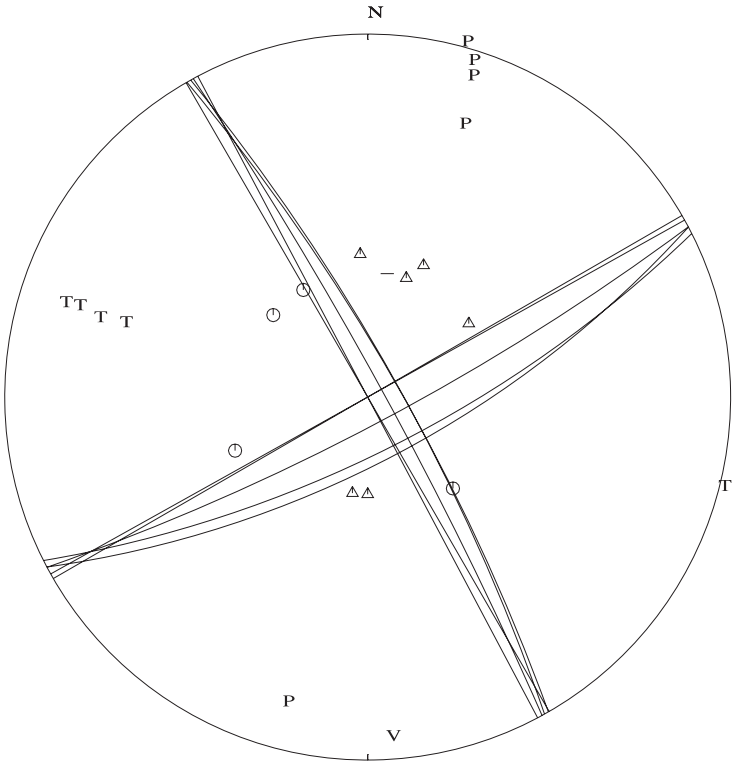

Figure 5. Focal mechanism for the Mallaig earthquake.

The focal mechanism obtained for this event shows a strike slip mechanism, with right lateral faulting on a north-northwest south-southeast or left lateral faulting on an east-northeast west southwest fault.

A magnitude 1.9 ML earthquake occurred on 20 April, with an epicentre close to Ballachulish, Highland. The BGS received a single report from a resident of Ballachulish describing, “it sounded like a blast going off and a rumble”, indicating an intensity of 3 EMS. The earthquake was the largest in the general area since a magnitude 3.0 ML event on 10 December 2005, which was felt with intensities of at least 4 EMS in the epicentral area. A second event was felt in the Ballachulish area on 13 October, and was also reported felt by a resident of Ballachulish, who described, “I felt a slight shaking”, indicating an intensity of 2 EMS.

An earthquake with a magnitude of 1.5 ML occurred near Anglesey, North Wales, on 23 May. The BGS received reports via BBC North Wales stating that several residents in the south Anglesey area “felt a slight vibration”, indicating an intensity of 2 EMS.

On 8 June, a magnitude 2.9 ML earthquake occurred near Shieldaig, Highland. The BGS received a number of reports from people in Gairloch, Achnasheen, Stromeferry and Ardaneaskan, Highland region. Reports described, "the whole floor vibrated", "the whole house shook", and "we thought the chimney had fallen down", indicating an intensity of at least 4 EMS. A magnitude 0.4 ML earthquake also occurred in the Shieldaig area on 29 June.

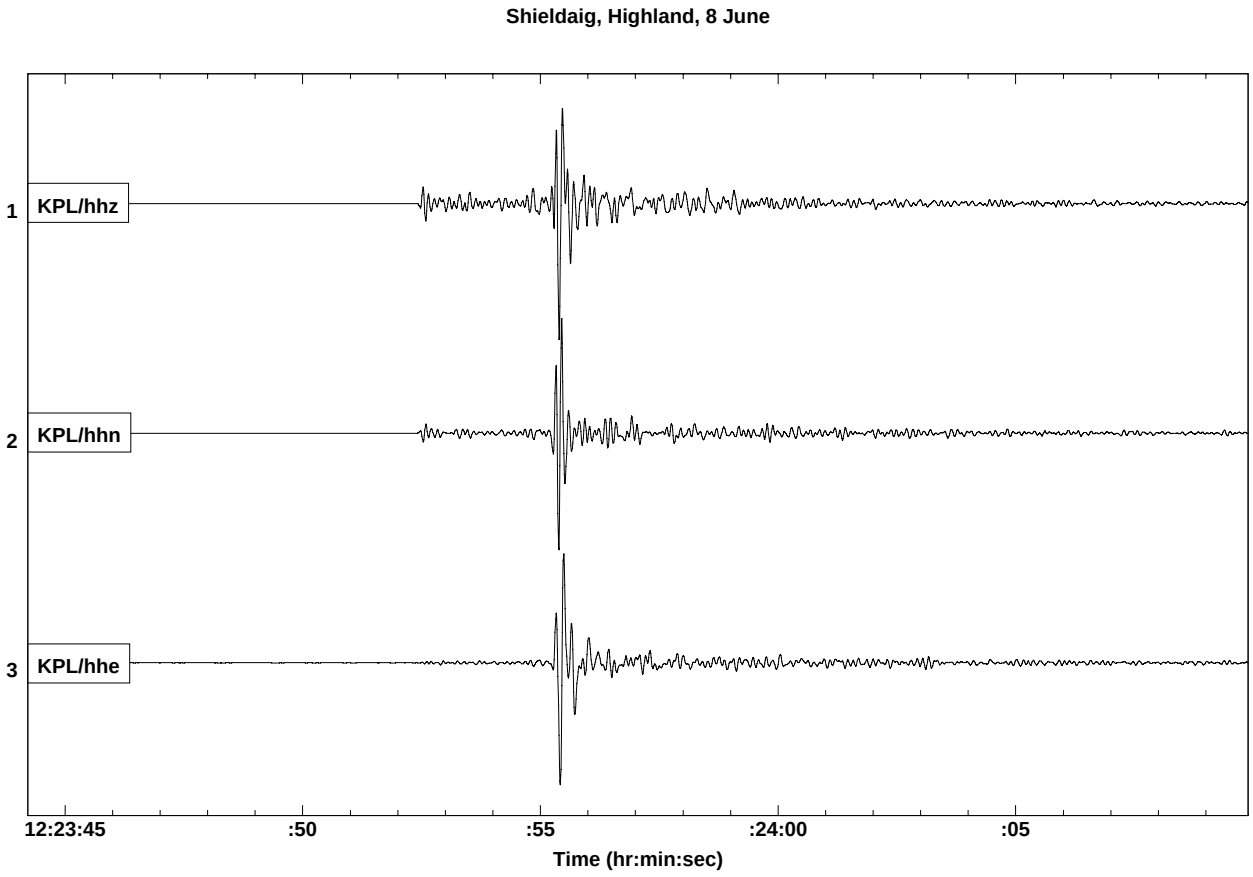

Figure 6. Seismograms of the ground displacement from the Shieldaig earthquake, 8 June January 2006, recorded by BGS seismograph stations.

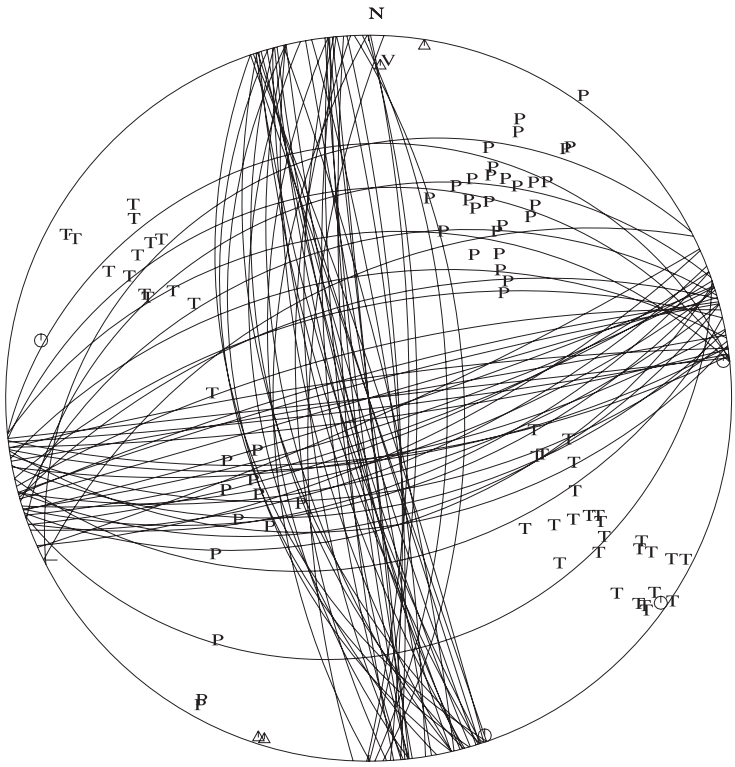

Figure 7. Focal mechanism for the Shieldaig earthquake.

The focal mechanism obtained for the Shieldaig earthquake was a poorly constrained strike slip mechanism, with right lateral motion on a north-northwest south-southeast sub-vertical fault or left lateral faulting on an east-northeast west southwest fault whose dip is poorly constrained.

An earthquake with a magnitude of 1.8 ML occurred on 19 December near Looe, Cornwall. BGS received reports of the earthquake being felt by residents in Carludden, St Austell and Herodsfoot. The reports described “thought it was thunder, “it only lasted about a second” and “the whole house really shook”. Historically, the largest event in the region with a magnitude of 3.4 ML, occurred on 12 August 1852 near Callington, Cornwall and was felt with intensities of approximately 4 EMS.

In the Gruinard Bay area of the Highland region, two earthquakes with magnitudes of 2.0 and 1.6 ML occurred on 6 February and 2 April.

Two earthquakes, both with magnitudes of 1.1 ML, occurred in the Ludlow area of Shropshire 8 minutes apart, on 23 March. Another event in the same area, with a magnitude of 2.0 ML, occurred on 5 November.

Acknowledgements

We are indebted to the States of Jersey Meteorological Office, the Universities of East Anglia, and Leeds, and many individuals who assisted with station operation.

The work was supported in part by:

Alcan Smelting and Power UK
British Energy
BNFL Magnox Generation
British Nuclear Fuels plc
Health and Safety Executive
HM Nuclear Installations Inspectorate
Jersey Water
Natural Environment Research Council
Department of Communities and Local Government
Scottish & Southern Energy plc
Scottish Power
Scottish Water

Interchange of data with UK and European agencies, has contributed to the accuracy of location of some of these events and to the determination of their magnitudes. They include:

Atomic Weapons Establishment (Blacknest, UK)
Centre Seismologique Euro-Mediterranean (Bruyères-le-Châtel, France)
Dublin Institute for Advanced Studies (Dublin, Ireland)
GEUS (Geological Survey of Denmark and Greenland)
Institute de Physique du Globe (Paris, France)
Koninklijk Nederlands Meteorologisch Instituut (Ae de Bilt, Netherlands)
Laboratoire de Detection et de Geophysique (Bruyères-le-Châtel, France)
NORSAR (Oslo, Norway)
University of Bergen (Bergen, Norway)
University of Keele (Keele, UK)

This report is published with the approval of the Director of the British Geological Survey (NERC).

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Richter, C., 1935. An instrumental earthquake magnitude scale, *Bull.Seism. Soc.Am.*,**25,** 1-32.

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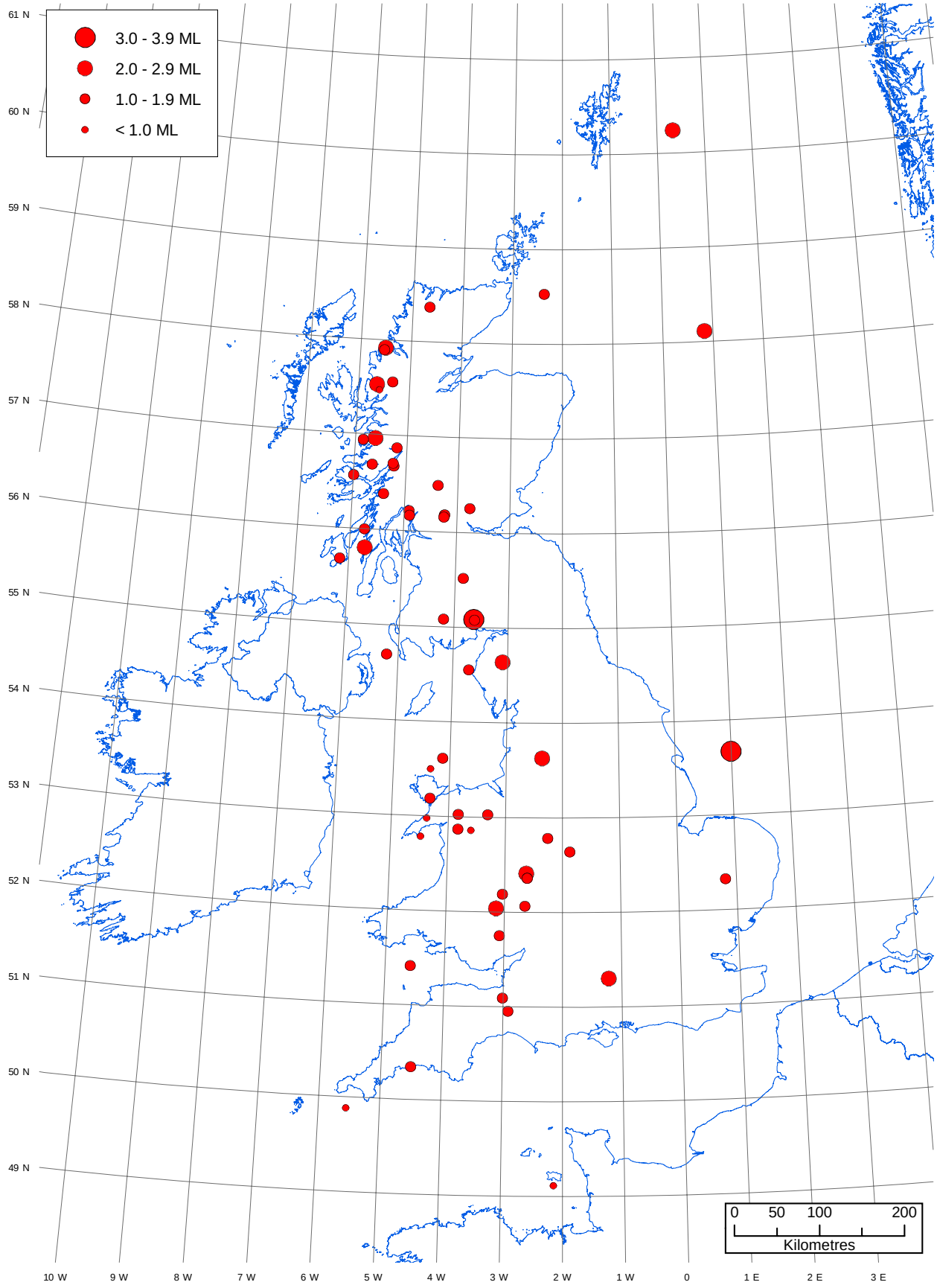

Figure 8. Epicentre map of earthquakes in 2006 as listed in Table 1.

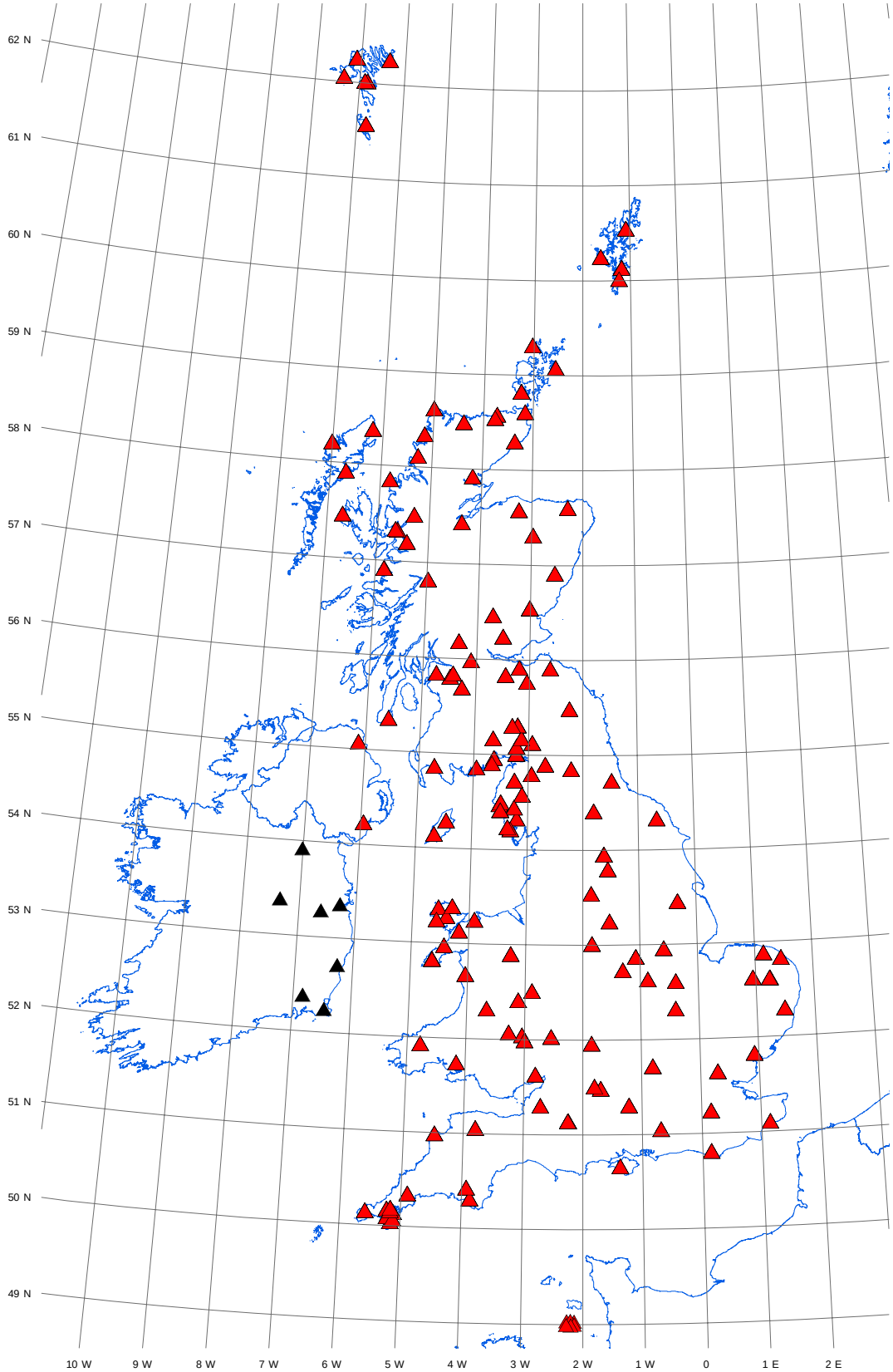

Figure 9. Seismograph network operational in December 2006. Red triangles indicate BGS stations: black traingles indicate stations operated by the Dublin Institute of Advanced Studies (DIAS).

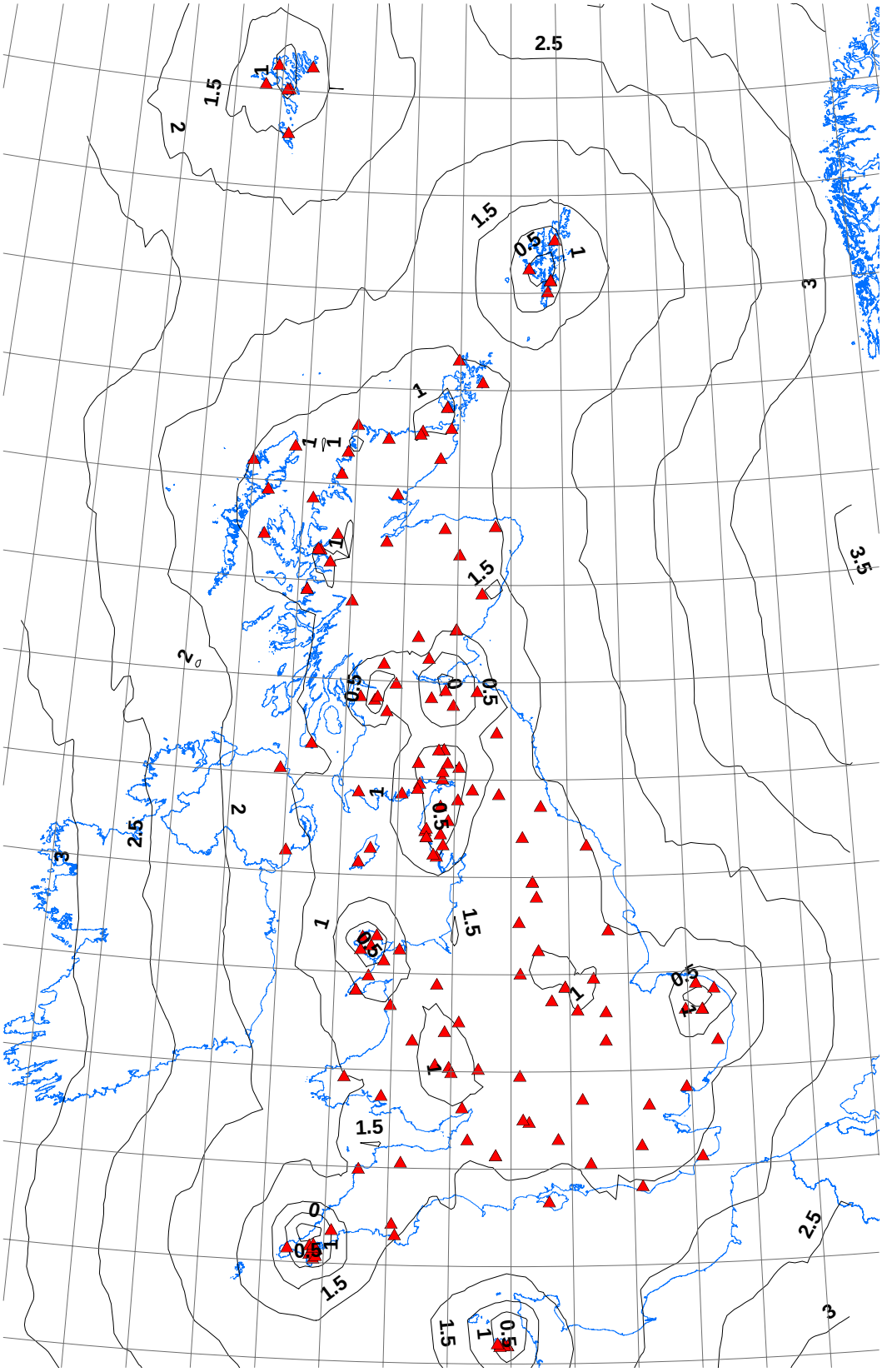

Figure 10. Earthquake detection capability in December 2006. Contour values are for Richter local magnitude (ML) calculated for average background noise conditions (4nm) where the detection criterion is that the signal has to exceed 4nm at 10Hz at 4 stations.

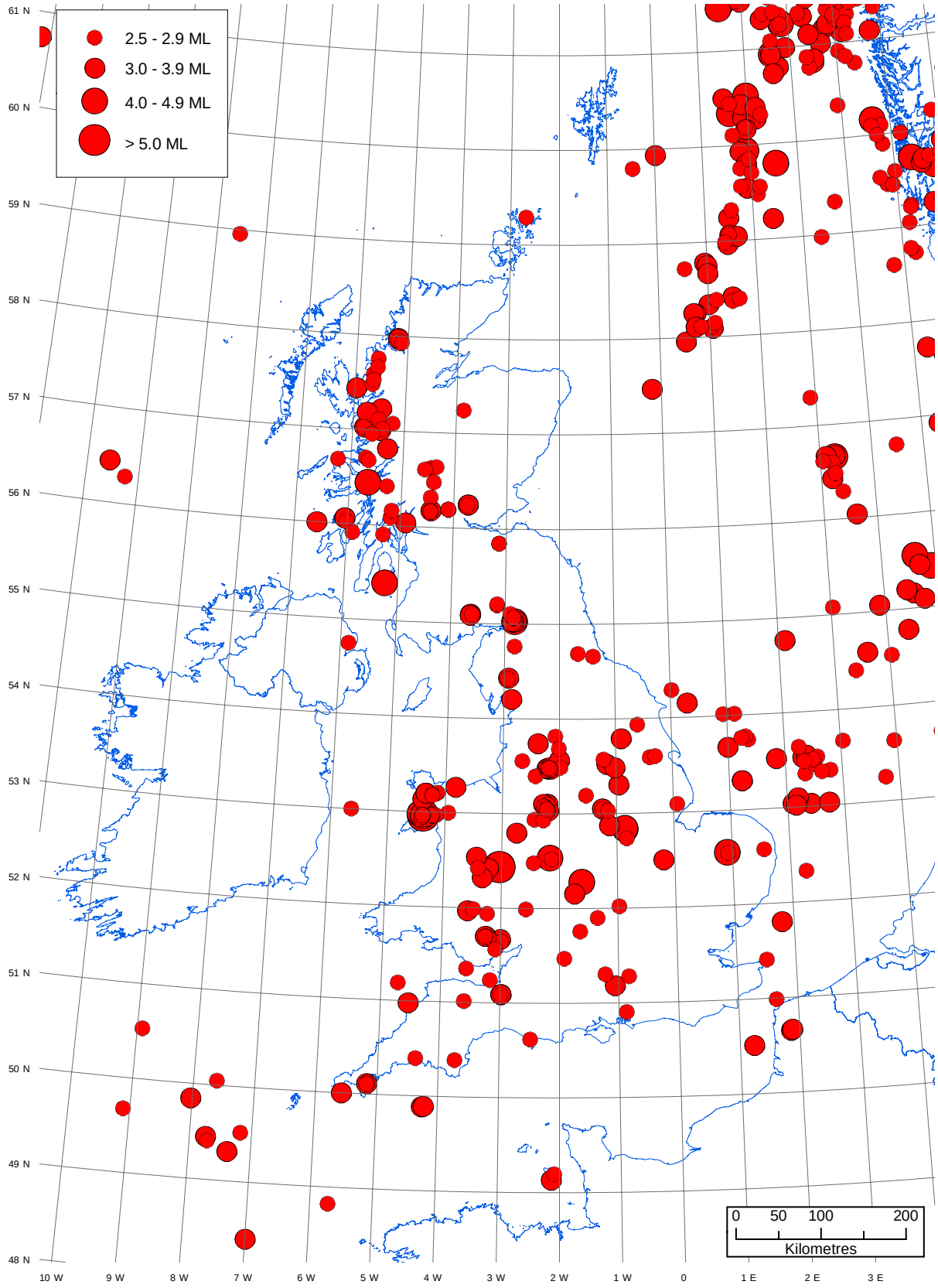

Figure 11. Epicentres of earthquakes with magnitudes of 2.5 ML and above, in the period 1979 to 2006.

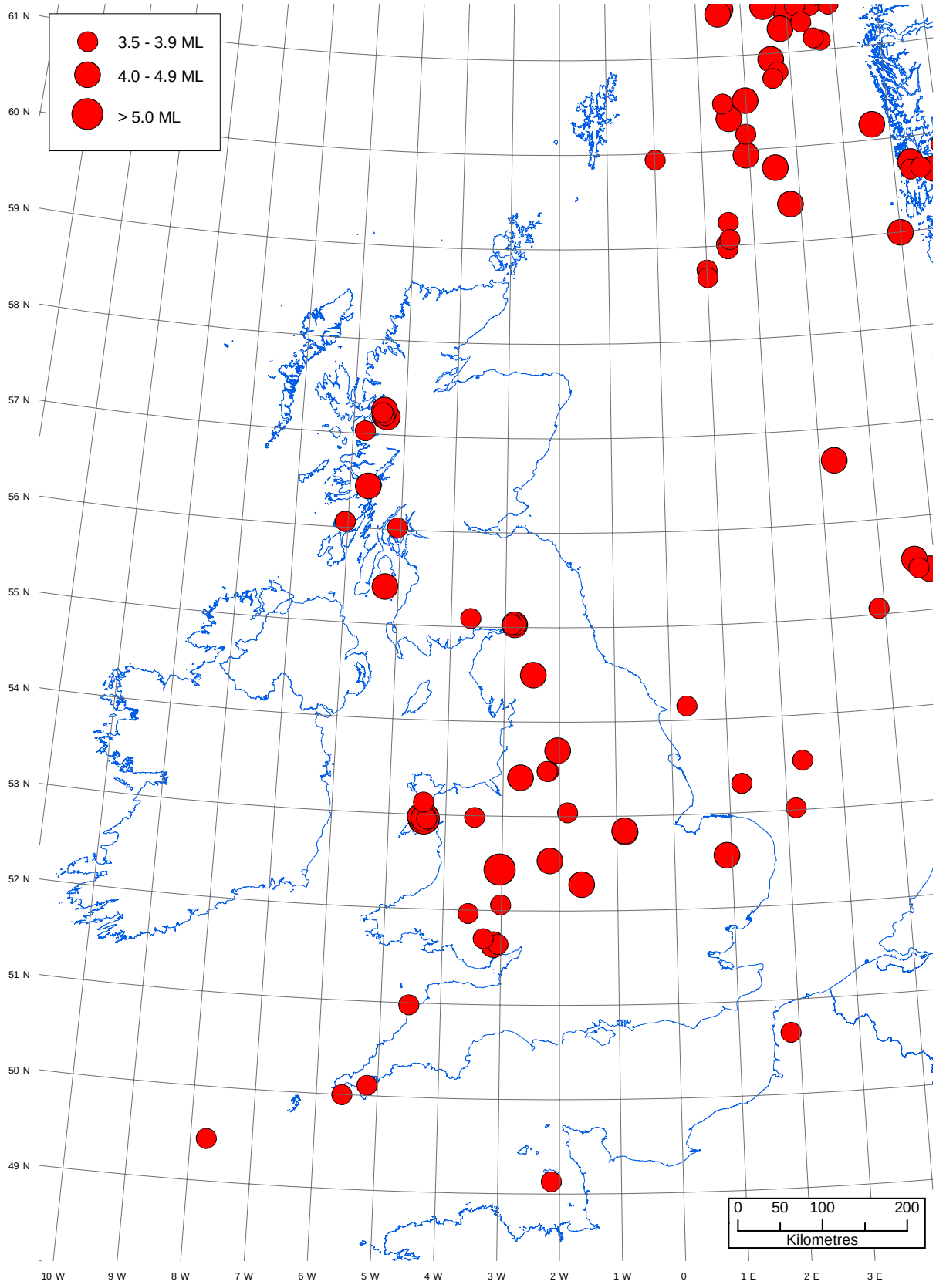

Figure 12. Epicentres of earthquakes with magnitudes of 3.5 ML and above, in the period 1970 - 2006.

TABLE 1 : CATALOGUE OF EVENTS : 2006

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	Gap	RMS	ERH	ERZ	Comments
20060107	185428.1	57.56	-5.34	200.3	857.1	5.0	1.1	KINLOCHEWE,HIGHLAND		10	96	0.60	9.53	9.20	
20060112	190352.1	51.30	-1.22	454.4	156.6	14.8	2.6	BASINGSTOKE,HAMPSHIRE		16	95	0.30	7.46	5.00	5KM NW OF BASINGSTOKE
20060113	035535.1	52.33	0.81	591.5	273.5	18.5	1.5	BURY ST EDMUNDS,SUFFOLK		6	204	0.10	4.24	2.20	8KM NE OF BURY ST EDMUNDS
20060119	023544.4	56.96	-5.61	180.4	791.6	2.6	2.8	NR MALLAIG,HIGHLAND	3	10	226	0.10	9.35	7.90	FELT MALLAIG,GLENFINNAN...
20060122	000710.0	58.37	-4.66	244.4	944.9	6.3	1.8	NR TONGUE,HIGHLAND		10	224	0.20	7.22	31.30	20KM SW OF TONGUE
20060125	161911.5	52.19	-3.03	329.5	255.3	2.3	1.1	KINGTON,HEREFORDSHIRE		5	178	0.00	2.02	1.50	
20060202	043505.1	58.53	-2.37	378.7	959.9	16.2	1.9	MORAY FIRTH REGION		14	118	0.50	18.96	48.00	43KM EAST OF WICK
20060206	184319.7	57.92	-5.50	192.6	897.9	6.1	2.0	GRUINARD BAY,HIGHLAND		12	61	0.20	3.85	4.00	
20060207	215905.3	55.67	-6.17	138.0	650.3	2.7	1.5	ISLAY,INNER HEBRIDES		5	245	0.40	19.71	56.70	
20060211	202553.9	56.56	-6.00	154.6	748.4	5.0	1.8	ISLE OF MULL,HIGHLAND		6	253	0.20	20.20	0.00	
20060214	014555.8	56.26	-3.76	291.2	708.4	4.1	1.6	BLACKFORD,TAYSIDE		9	114	0.10	3.12	3.30	
20060303	161054.2	52.98	-4.38	240.4	344.8	19.2	0.6	PWLLHELI,GWYNEDD		6	234	0.10	6.44	7.10	8KM N OF PWLLHELI
20060304	044915.4	50.96	-2.92	335.5	117.9	2.6	1.1	ILMINSTER,SOMERSET		8	166	0.30	6.04	12.50	
20060304	121422.9	55.81	-5.71	167.5	663.2	2.6	2.2	SOUND OF JURA		11	158	0.30	6.18	11.20	
20060306	190332.1	49.88	-5.55	145.2	4.4	5.0	0.1	ENGLISH CHANNEL		5	299	0.10	6.52	0.00	25KM WSW OF LIZARD POINT
20060311	152723.5	53.02	-3.83	277.3	349.1	20.4	1.1	BETWS-Y-COED,GWYNEDD		11	120	0.10	2.48	4.70	6KM SSW OF BETWS-Y-COED
20060322	031131.8	56.18	-4.24	261.2	700.5	4.1	1.0	THORNHILL,CENTRAL		4	191	0.10	136.31	19.20	5KM W OF THORNHILL
20060322	031249.5	56.18	-4.23	261.3	700.9	2.6	1.1	THORNHILL,CENTRAL		4	196	0.10	216.59	28.20	5KM W OF THORNHILL
20060323	075459.0	52.36	-2.61	358.4	274.0	15.4	1.1	LUDLOW,SHROPSHIRE		5	219	0.10	4.34	2.70	5KM SE OF LUDLOW
20060323	080254.2	52.36	-2.61	358.3	273.9	15.4	1.1	LUDLOW,SHROPSHIRE		5	218	0.10	3.45	10.40	5KM SE OF LUDLOW
20060323	185629.2	51.75	-3.08	325.7	206.5	14.3	1.8	ABERTILLERY,GWENT		12	75	0.20	2.55	1.90	
20060402	212724.2	57.90	-5.53	191.1	895.0	4.3	1.6	GRUINARD BAY,HIGHLAND		11	66	0.20	3.85	5.00	
20060414	205627.4	62.01	2.41	630.6	1355.7	15.0	3.3	NORWEGIAN SEA		13	346	0.30	51.85	0.00	
20060420	014550.7	56.68	-5.23	202.0	758.5	7.5	1.9	BALLACHULISH,HIGHLAND	3	17	132	0.20	10.28	15.20	FELT BALLACHULISH
20060425	134400.0							SONIC-FELT LANCASHIRE							
20060425	135400.0							SONIC-FELT LANCASHIRE							
20060425	140000.0							SONIC-FELT LANCASHIRE							
20060523	032241.9	53.19	-4.33	244.2	367.9	9.5	1.5	ANGLESEY,GWYNEDD	2	14	78	0.10	2.92	2.70	FELT SOUTHERN ANGLESEY
20060525	130700.0							SONIC-NW ENGLAND							FELT CHESHIRE...
20060530	144613.4	53.50	-4.34	245.1	402.9	14.3	0.7	OFF ANGLESEY,GWYNEDD		7	150	0.10	3.42	3.10	9KM NORTH OF ANGLESEY
20060607	111000.0							SONIC-ORKNEY ISLANDS							FELT STROMNESS,ROUSAY
20060608	122348.1	57.53	-5.64	182.0	854.8	8.3	2.9	SHIELDAIG,HIGHLAND	4	22	82	0.20	6.62	58.90	FELT GAIRLOCH...
20060619	140314.1	55.08	-4.19	260.1	578.6	7.5	1.1	NEW GALLOWAY,D & G		12	90	0.50	8.09	19.60	
20060622	042335.7	56.21	-4.91	219.6	706.0	2.2	1.9	LOCHGOILHEAD,S'CLYDE		14	113	0.40	5.41	20.10	5KM N OF LOCHGOILHEAD
20060627	131000.0							SONIC-NORTHUMBERLAND							FELT NORTHUMBERLAND
20060629	143058.2	57.47	-5.58	185.1	848.1	2.9	0.4	SHIELDAIG,HIGHLAND		2	245	0.30	3.64	293.80	
20060629	212233.2	56.00	-5.74	167.1	684.6	6.0	1.6	SOUND OF JURA,S'CLYDE		10	247	0.40	18.15	0.00	
20060703	145248.6	52.64	-1.88	408.3	305.0	7.5	1.5	WALSALL,WEST MIDLANDS		11	191	0.30	9.30	13.20	
20060703	151740.5	56.87	-5.19	205.6	779.8	3.5	1.5	LOCH EIL,HIGHLAND		12	112	0.20	7.24	8.40	
20060709	210500.0							POSSIBLE SONIC-THAMES							FELT CANTERBURY...
20060709	210949.5	56.16	-4.90	219.9	700.4	1.6	1.5	LOCHGOILHEAD,S'CLYDE		11	162	0.20	4.35	4.70	
20060720	231511.9	56.38	-5.41	189.4	726.1	4.6	1.1	OBAN,STRATHCLYDE		6	207	0.00	2.31	3.10	
20060804	092608.9	55.52	-3.85	283.3	626.2	4.3	1.1	ABINGTON,STRATHCLYDE		11	170	0.40	10.63	12.80	
20060814	164045.7	51.09	-3.01	329.3	133.1	6.0	1.9	BRIDGWATER,SOMERSET		12	139	0.30	4.00	16.80	
20060815	055905.0	53.61	-4.13	259.2	415.2	9.5	1.0	IRISH SEA		7	190	0.00	1.21	1.20	
20060818	204544.3	63.36	-0.88	456.3	1498.1	20.0	3.8	NORWEGIAN SEA		10	293	0.20	19.34	0.00	

TABLE 1 : CATALOGUE OF EVENTS : 2006

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	Gap	RMS	ERH	ERZ	Comments
20060829	160500.7	56.49	-4.38	253.8	735.4	11.9	1.9	KILLIN,CENTRAL		11	146	0.30	11.08	10.40	
20060904	154716.7	54.64	-3.08	330.0	527.9	6.3	2.2	KESWICK,CUMBRIA		14	100	0.20	2.28	1.40	
20060924	222445.6	54.55	-3.71	289.7	519.0	5.0	1.1	IRISH SEA		14	115	0.50	5.13	0.00	OFFSHORE WHITEHAVEN
20060926	193436.6	52.04	-3.14	321.8	238.7	19.2	2.1	HAY-ON-WYE,HER & WORC		19	56	0.20	3.28	2.30	
20060926	212035.0	52.06	-2.65	355.8	240.9	9.7	1.3	HEREFORD,HER & WORC		8	211	0.10	3.07	2.60	
20061006	120655.0	54.69	-5.21	193.0	537.3	5.6	1.2	NORTH CHANNEL		11	83	0.30	4.24	7.70	
20061011	180747.4	56.94	-5.85	165.9	790.0	4.8	1.2	ARISAIG,HIGHLAND		12	164	0.20	4.66	5.70	
20061013	042103.8	56.70	-5.25	201.0	761.7	6.8	1.4	BALLACHULISH,HIGHLAND	2	7	150	0.40	11.48	15.60	FELT BALLACHULISH
20061015	043518.7	52.86	-3.60	292.5	330.2	14.9	0.9	BALA,GYWNEDD		10	119	0.30	5.42	6.60	
20061015	110445.7	56.68	-5.66	176.2	760.6	5.3	1.3	LOCH SUNART,HIGHLAND		8	159	0.20	13.96	7.60	
20061017	064748.8	60.24	0.34	529.8	1153.1	13.9	2.3	OFFSHORE SHETLAND		13	156	6.00	89.77	0.00	90KM EAST OF LERWICK
20061024	230001.0	58.11	0.84	567.2	917.4	11.5	2.5	CENTRAL NORTH SEA		14	246	0.50	25.55	15.30	
20061025	041400.7	56.16	-4.25	260.3	698.2	1.0	1.2	THORNHILL,CENTRAL		9	142	0.30	3.38	0.00	
20061028	110740.6	51.61	-3.94	265.5	192.0	0.0	1.4	EXPL-SWANSEA BAY	2	12	167	0.40	7.29	0.00	FELT SWANSEA
20061105	223539.7	52.41	-2.62	357.7	279.8	3.3	2.2	LUDLOW,SHROPSHIRE		16	83	0.30	5.01	15.60	
20061128	233040.2	52.87	-3.83	276.9	331.7	9.3	1.0	TRAWSFYNYDD,GWYNEDD		9	131	0.20	5.59	10.10	5KM SE TRAWSFYNYDD
20061129	054502.0	53.02	-3.31	312.1	348.4	13.3	1.3	RUTHIN,CLWYD		4	334	0.10	4.75	1.50	
20061130	215109.1	51.41	-4.58	220.7	171.2	6.2	1.6	BRISTOL CHANNEL		8	219	0.20	9.84	12.60	
20061209	112204.9	49.12	-2.15	389.3	-87.2	7.6	0.0	JERSEY,CHANNEL ISLANDS		3	314	0.70	26.57	0.00	OFFSHORE LOCATION
20061216	160852.4	53.63	-2.36	376.1	414.9	9.8	2.1	BOLTON,GTR MANCHESTER		30	36	0.50	5.28	7.10	
20061219	022055.0	50.35	-4.51	221.3	52.7	8.0	1.8	LOOE,CORNWALL	3	7	171	0.30	4.31	16.50	FELT HERODSFOOT...
20061223	011929.6	52.78	-4.48	233.0	323.6	12.6	0.8	PWLLHELI,GWYNEDD		4	317	0.00	1.35	0.30	12KM OFFSHORE
20061223	121932.2	52.78	-2.26	382.7	320.9	11.8	1.5	NEWPORT,SHROPSHIRE		7	149	0.10	2.62	2.80	7KM EAST OF NEWPORT
20061226	104004.1	55.09	-3.64	295.6	578.1	7.4	3.5	DUMFRIES, D & G	5	39	43	0.40	3.80	5.60	FELT DUMFRIES...
20061230	091543.0	53.67	1.00	598.0	423.0	8.0	3.1	SOUTHERN NORTH SEA		12	217	0.30	24.10	12.90	75KM EAST OF HULL
20061230	162213.2	55.08	-3.62	296.5	577.3	5.6	1.7	DUMFRIES,D & G		18	64	0.30	3.67	8.80	

TABLE 2 : PHASE DATA

January 7 2006 Time: 18:54 28.1 UTC Magnitude: 1.1 ML
Lat: 57.560N Lon: -5.339W Depth: 5.0 km
Grid Ref: 200.29 kmE 857.10 kmN RMS: 0.60 secs
Locality: KINLOCHEWE,HIGHLAND
Velocity model: Lownet Xnear: 50.0 Xfar: 100.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KAC	SZ	7.2	IP		C	18:54	30.10			0.47
KPL	SZ	31.0	EP			18:54	33.34			-0.20
KPL	SN	31.0	ES	2		18:54	36.88			-0.85
KPL	SN	31.0	AML			18:54	37.15	38	0.14	
KPL	SE	31.0	AML			18:54	37.15	35	0.13	
KSB	SZ	39.3	IP		C	18:54	34.84			-0.15
RRR	SZ	43.3	IP		C	18:54	35.81			-0.03
RRR	SE	43.3	ES	3		18:54	41.13			-0.36
RRR	SE	43.3	AML			18:54	41.64	17	0.27	
RRR	SN	43.3	AML			18:54	41.79	13	0.31	
MDO	SZ	59.9	EP			18:54	38.30			-0.19
REB	SZ	62.4	EP			18:54	38.78			-0.02
KSK	SZ	82.3	EP			18:54	43.83			2.21
RSC	SZ	88.4	EP			18:54	42.84			0.01
RRH	SZ	89.8	EP			18:54	43.16			0.10
RTO	SZ	105.0	EP			18:54	45.50			0.15

January 12 2006 Time: 19:03 52.1 UTC Magnitude: 2.6 ML
Lat: 51.305N Lon: -1.219W Depth: 14.8 km
Grid Ref: 454.44 kmE 156.55 kmN RMS: 0.30 secs
Locality: BASINGSTOKE,HAMPSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 100.0
Comment: 5KM NW OF BASINGSTOKE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WOL	BZ	0.9	EP			19:03	54.85			0.07
WOL	BN	0.9	ES	2		19:03	57.03			0.31
SWN	SZ	46.6	EP			19:04	00.38			0.03
SWN	SE	46.6	ES	2		19:04	06.99			0.64
SWN	SE	46.6	AML			19:04	07.67	633	0.24	
SWN	SN	46.6	AML			19:04	07.72	755	0.28	
SKP	SZ	54.3	IP		C	19:04	01.09			-0.44
SIW	SZ	71.4	IP		C	19:04	03.92			-0.21
SWK	SZ	73.9	IP		C	19:04	04.45			-0.09
SSW	SZ	85.6	EP			19:04	06.31			0.00
TSA	SZ	96.2	IP		D	19:04	08.20			0.40
SMD	SZ	104.0	EP			19:04	09.36			0.35
HGH	SZ	116.0	EP			19:04	10.81			0.13
MCH	SZ	145.0	EP			19:04	14.77			-0.05
MCH	SN	145.0	ES	2		19:04	31.43			0.04
MCH	SE	145.0	AML			19:04	32.75	103	0.15	
MCH	SN	145.0	AML			19:04	32.90	102	0.23	
HTR	SZ	166.0	EP			19:04	17.38			-0.18
HLM	SZ	177.0	EP			19:04	18.63			-0.34
SSP	SZ	180.0	EP			19:04	19.13			-0.20
SSP	SN	180.0	ES	2		19:04	39.89			0.69
SSP	SN	180.0	AML			19:04	41.34	47	0.42	
SSP	SE	180.0	AML			19:04	41.50	45	0.29	
KWE	SZ	195.0	EP			19:04	21.95			0.73
KBI	SZ	218.0	EP			19:04	24.64			0.58

January 13 2006 Time: 03:55 35.1 UTC Magnitude: 1.5 ML
Lat: 52.326N Lon: 0.811W Depth: 18.5 km
Grid Ref: 591.53 kmE 273.53 kmN RMS: 0.10 secs
Locality: BURY ST EDMUNDS,SUFFOLK
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 8KM NE OF BURY ST EDMUNDS

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
AWH	SZ	35.0	IP		C	03:55	41.84			0.04
AEU	SZ	43.6	IP		C	03:55	42.98			-0.05
AEU	SE	43.6	ES			03:55	48.85			0.07
AEU	SE	43.6	AML	2		03:55	48.98	43	0.11	
AEU	SN	43.6	AML			03:55	49.21	43	0.13	
APA	SZ	45.6	EP			03:55	43.25			-0.09
TCR	SZ	55.2	EP			03:55	44.78			0.05
ABA	SZ	66.5	EP			03:55	46.19			-0.15
AWI	SZ	70.9	IP		D	03:55	47.09			0.13

January 19 2006 Time: 02:35 44.4 UTC Magnitude: 2.8 ML
Lat: 56.964N Lon: -5.612W Depth: 2.6 km
Grid Ref: 180.45 kmE 791.65 kmN RMS: 0.10 secs
Locality: NR MALLAIG,HIGHLAND
Velocity model: Lownet Xnear: 50.0 Xfar: 100.0
Comment: FELT MALLAIG,GLENFINNAN... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KSB	SZ	29.7	IP		D	02:35	49.41			-0.06
RRR	SZ		EP	9		02:36	00.76			
REB	SZ		EP			02:36	05.20			
EAU	SZ	183.0	EP	4		02:37	04.46			51.50
RSC	SZ		EP			02:36	08.66			
RRR	SN		ES	2		02:36	12.78			
GAL	SN	240.0	AML			02:36	52.00	43	0.17	
RRH	SZ		IP		C	02:36	04.41			
EBL	SZ	207.0	EP	4		02:37	07.40			51.40
GAL	SE	240.0	AML			02:36	51.77	66	0.27	
EDI	HZ	189.0	EP	4		02:36	12.75			-0.97
KPL	SE	41.8	ES	2		02:35	56.73			-0.07
MCD	SZ	158.0	EP			02:36	08.36			-1.25
MDO	SZ	92.3	IP	4	D	02:35	59.32			-0.43
RTO	SZ		EP			02:36	08.99			
GCL	SZ	212.0	IP		D	02:36	14.56			-2.09
MCD	SN	158.0	AML			02:36	30.45	124	0.27	
MCD	SN	158.0	ES	2		02:36	26.68			-1.31
KSK	SZ	86.3	IP		C	02:35	58.91			0.42
KAC	SZ	62.5	IP		D	02:35	54.94			0.15
EAB	SZ	117.0	IP		C	02:36	55.69			52.20
MCD	SE	158.0	AML			02:36	31.82	151	0.19	
GAL	SZ	240.0	EP			02:36	18.39			-1.71
GMK	SZ	180.0	IP		D	02:36	10.73			-1.87
KAR	SZ	14.1	IP		C	02:35	46.76			-0.02
KPL	SZ	41.8	IP		D	02:35	51.44			-0.01
PGB	HZ		EP			02:36	07.75			
PGB	HN		ES			02:36	23.61			

January 22 2006 Time: 00:07 10.0 UTC Magnitude: 1.8 ML
Lat: 58.365N Lon: -4.661W Depth: 6.3 km
Grid Ref: 244.35 kmE 944.88 kmN RMS: 0.20 secs
Locality: NR TONGUE,HIGHLAND
Velocity model: Lownet Xnear: 75.0 Xfar: 150.0
Comment: 20KM SW OF TONGUE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
RSC	SZ	29.7	IP		C	00:07	15.63			0.07
REB	SZ	45.5	IP		D	00:07	17.84			-0.17
MVH	SZ	56.5	EP			00:07	19.56			-0.18
RRR	SZ	88.0	EP			00:07	24.68			0.08
RRR	SE	88.0	AML			00:07	38.83	27	0.20	
RRR	SN	88.0	AML			00:07	39.21	27	0.16	
RTO	SZ	90.6	EP			00:07	24.92			-0.07
MDO	SZ	104.0	EP			00:07	27.37			0.16
KAC	SZ	104.0	EP			00:07	26.93			0.19
MCD	SZ	121.0	IP		C	00:07	30.28			0.60
MCD	SE	121.0	ES	2		00:07	43.90			-0.13
MCD	SN	121.0	AML			00:07	45.13	26	0.29	
MCD	SE	121.0	AML			00:07	45.31	22	0.09	
RRH	SZ	129.0	EP			00:07	31.33			0.38
KPL	SZ	129.0	EP			00:07	30.74			0.21
KPL	SN	129.0	AML			00:07	47.97	38	0.34	
KPL	SE	129.0	AML			00:07	48.30	26	0.17	

January 25 2006 Time: 16:19 11.5 UTC Magnitude: 1.1 ML
Lat: 52.191N Lon: -3.032W Depth: 2.3 km
Grid Ref: 329.46 kmE 255.30 kmN RMS: 0.00 secs
Locality: KINGTON,HEREFORDSHIRE
Velocity model: Mid Wales Xnear: 80.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HTR	SZ	20.4	IP		C	16:19	15.29			0.00
MCH	SZ	21.7	IP		C	16:19	15.54			0.03
MCH	SN	21.7	ES	2		16:19	18.43			0.01
MCH	SN	21.7	AML			16:19	18.77	48	0.09	
MCH	SE	21.7	AML			16:19	18.81	69	0.11	
SSP	SZ	25.8	IP		D	16:19	16.19			-0.02
SSP	SN	25.8	ES	2		16:19	19.68			0.06
SSP	SE	25.8	AML			16:19	19.82	24	0.13	
SSP	SN	25.8	AML			16:19	19.91	27	0.16	
HGH	SZ	63.5	EP	2		16:19	22.33			-0.09
HEX	SZ	136.0	EP			16:19	34.10			-0.02

February 2 2006 Time: 04:35 05.1 UTC Magnitude: 1.9 ML
Lat: 58.527N Lon: -2.366W Depth: 16.2 km
Grid Ref: 378.69 kmE 959.89 kmN RMS: 0.50 secs
Locality: MORAY FIRTH REGION
Velocity model: North Sea Xnear: 200.0 Xfar: 450.0
Comment: 43KM EAST OF WICK

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCD	SZ	118.0	IP		C	04:35	23.71			0.10
MCD	SN	118.0	ES	2		04:35	37.14			0.00
MCD	SN	118.0	AML			04:35	45.57	32	0.15	
MCD	SE	118.0	AML			04:35	46.49	33	0.26	
MME	SZ	140.0	EP			04:35	26.81			0.44
RSC	SZ	165.0	EP			04:35	30.39			0.93
MDO	SZ	169.0	EP			04:35	29.49			-0.54
REB	SZ	177.0	EP			04:35	30.38			-0.56
LRW	HZ	192.0	EP			04:35	32.33			-0.46
LRW	HN	192.0	AML			04:36	03.97	5	0.24	
LRW	HE	192.0	AML			04:36	04.10	8	0.34	
WAL	SZ	197.0	EP			04:35	33.87			0.37
RRR	SZ	216.0	EP			04:35	35.24			-0.53
RRR	SE	216.0	AML			04:36	10.15	14	0.21	
RRR	SN	216.0	AML			04:36	10.45	23	0.30	
RTO	SZ	225.0	EP			04:35	37.16			0.23
RRH	SZ	263.0	EP			04:35	41.69			0.06
EAB	SZ	286.0	EP			04:35	44.45			-0.10
KMY	SZ	445.0	EP			04:36	02.76	2	0.46	-1.55
KMY	SN	445.0	ES	4		04:36	45.00			-2.56
BLS5	SZ	517.0	EP			04:36	13.20			-0.03
ODD1	SZ	536.0	EP			04:36	13.54			-2.08
ODD1	SZ	536.0	ES	4		04:37	03.23			-3.89

February 6 2006 Time: 18:43 19.7 UTC Magnitude: 2.0 ML
Lat: 57.922N Lon: -5.502W Depth: 6.1 km
Grid Ref: 192.63 kmE 897.86 kmN RMS: 0.20 secs
Locality: GRUINARD BAY,HIGHLAND
Velocity model: Lownet Xnear: 50.0 Xfar: 100.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
RRR	SZ	19.4	IP		D	18:43	23.70			0.18
RRR	SN	19.4	ES			18:43	26.14			-0.18
REB	SZ	25.6	IP		D	18:43	24.54			-0.02
KAC	SZ	48.6	IP		C	18:43	28.17			-0.03
RSC	SZ	51.4	IP		D	18:43	28.48			-0.14
KPL	SZ	65.5	EP			18:43	31.07			0.29
KPL	SE	65.5	ES	2		18:43	38.25			-0.63
KPL	SN	65.5	AML			18:43	41.95	70	0.15	
KPL	SE	65.5	AML			18:43	41.97	62	0.20	
RTO	SZ	65.7	IP		C	18:43	31.02			0.19
RRH	SZ	70.3	EP			18:43	31.58			0.03
MVH	SZ	78.2	IP		C	18:43	32.87			0.09
MDO	SZ	86.5	IP		C	18:43	34.15			0.04
KAR	SZ	113.0	EP			18:43	38.61			0.37
MCD	SZ	139.0	EP			18:43	42.20			0.12
MCD	SN	139.0	ES	2		18:43	57.92			-0.51
MCD	SN	139.0	AML			18:43	59.64	41	0.16	
MCD	SE	139.0	AML			18:44	00.22	48	0.11	
MME	SZ	166.0	EP			18:43	45.51			-0.46

February 7 2006 Time: 21:59 05.3 UTC Magnitude: 1.5 ML
Lat: 55.675N Lon: -6.168W Depth: 2.7 km
Grid Ref: 137.98 kmE 650.26 kmN RMS: 0.40 secs
Locality: ISLAY,INNER HEBRIDES
Velocity model: Lownet Xnear: 100.0 Xfar: 170.0

TABLE 2 : PHASE DATA

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
GMK	SZ	51.5	EP			21:59	14.24			-0.27
GCL	SZ	66.4	EP			21:59	16.84			0.00
EAB	SZ	128.0	EP			21:59	26.37			-0.01
GAL	SZ	129.0	EP			21:59	27.34			0.81
GAL	SN	129.0	ES	2		21:59	41.94			-0.07
GAL	SE	129.0	AML			21:59	43.22	14	0.18	
GAL	SN	129.0	AML			21:59	45.05	7	0.16	
GMM	SZ	161.0	EP	2		21:59	32.30			1.23

February 11 2006 Time: 20:25 53.9 UTC Magnitude: 1.8 ML
Lat: 56.563N Lon: -5.995W Depth: 5.0 km
Grid Ref: 154.58 kmE 748.36 kmN RMS: 0.20 secs
Locality: ISLE OF MULL,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KAR	SZ	40.9	EP			20:26	01.38			0.05
KPL	SZ	88.9	EP			20:26	08.80			0.06
KPL	SN	88.9	ES	2		20:26	19.72			0.18
KPL	SN	88.9	AML			20:26	21.98	40	0.28	
KPL	SE	88.9	AML			20:26	22.30	48	0.22	
EAB	SZ	111.0	EP			20:26	12.21			0.05
KAC	SZ	112.0	IP		C	20:26	12.09			-0.34
RRR	SZ	145.0	EP			20:26	18.24			1.05
RRR	SE	145.0	AML			20:26	35.19	13	0.26	
RRR	SN	145.0	AML			20:26	36.28	18	0.22	
EDI	HZ	188.0	EP			20:26	24.91			1.82
EDI	HE	188.0	AML			20:26	46.61	9	0.23	
EDI	HN	188.0	AML			20:26	46.95	12	0.28	

February 14 2006 Time: 01:45 55.8 UTC Magnitude: 1.6 ML
Lat: 56.256N Lon: -3.757W Depth: 4.1 km
Grid Ref: 291.16 kmE 708.43 kmN RMS: 0.10 secs
Locality: BLACKFORD,TAYSIDE
Velocity model: Lownet Xnear: 70.0 Xfar: 140.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
PCO	SZ	36.7	EP			01:46	02.54			0.00
EAB	SZ	36.7	IP		C	01:46	02.52			-0.03
EDI	EZ	51.3	EP			01:46	04.95			0.09
EDI	EE	51.3	ES	2		01:46	11.28			-0.18
EDI	EN	51.3	AML			01:46	11.62	19	0.36	
EDI	EE	51.3	AML			01:46	13.55	19	0.32	
PCA	SZ	69.2	EP			01:46	07.77			0.10
EBL	SZ	69.8	EP			01:46	07.72			-0.07
PMS	SZ	76.6	EP			01:46	08.77			-0.06
MME	SZ	127.0	EP			01:46	17.01			0.27
MDO	SZ	137.0	EP			01:46	18.13			0.01
MCD	SZ	151.0	EP			01:46	20.35			0.27
MCD	SN	151.0	ES	3		01:46	37.62			-0.18
MCD	SN	151.0	AML			01:46	40.42	20	0.12	
MCD	SE	151.0	AML			01:46	42.81	20	0.54	

March 3 2006 Time: 16:10 54.2 UTC Magnitude: 0.6 ML
Lat: 52.976N Lon: -4.377W Depth: 19.2 km
Grid Ref: 240.42 kmE 344.75 kmN RMS: 0.10 secs
Locality: PWLLHELI,GWYNEDD
Velocity model: Lleyn Xnear: 50.0 Xfar: 100.0
Comment: 8KM N OF PWLLHELI

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WCB	SN	46.1	AML			16:11	08.75	5	0.10	
WCB	SE	46.1	AML			16:11	08.57	6	0.10	
WCB	SE	46.1	ES	2		16:11	07.93			0.09
WCB	SZ	46.1	IP			16:11	02.53			0.22
YLL	SZ	22.9	IP		C	16:10	59.10			0.03
WPM	SZ	44.5	EP			16:11	02.07			-0.02
WLF	SZ	34.8	EP			16:11	00.57			-0.10
YRC	SZ	33.3	IP		D	16:11	00.26			-0.18
YRE	SZ	3.3	IP		D	16:10	57.43			0.03

March 4 2006 Time: 04:49 15.4 UTC Magnitude: 1.1 ML
Lat: 50.956N Lon: -2.918W Depth: 2.6 km
Grid Ref: 335.53 kmE 117.86 kmN RMS: 0.30 secs
Locality: ILMINSTER,SOMERSET
Velocity model: Lownet Xnear: 75.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
SMD	SZ	41.7	EP			04:49	22.56			-0.23
HEX	SZ	63.3	EP			04:49	25.95			-0.29
DYA	EZ	92.1	EP			04:49	30.78			0.07
HTL	HZ	110.0	EP			04:49	34.10			0.63
HTL	HE	110.0	ES	2		04:49	46.59			-0.04
HTL	HE	110.0	AML			04:49	49.12	3	0.32	
HTL	HN	110.0	AML			04:49	49.53	3	0.22	
SWK	SZ	51.7	IP		C	04:49	24.40			-0.04
HAE	SZ	123.0	EP			04:49	36.07			0.56
HGH	SZ	76.3	EP			04:49	28.55			0.30
MCH	SZ	116.0	EP			04:49	34.47			0.06
MCH	SN	116.0	ES	2		04:49	47.87			-0.39
MCH	SN	116.0	AML			04:49	48.17	6	0.17	
MCH	SE	116.0	AML			04:49	48.75	8	0.15	

March 4 2006 Time: 12:14 22.9 UTC Magnitude: 2.2 ML
Lat: 55.806N Lon: -5.710W Depth: 2.6 km
Grid Ref: 167.54 kmE 663.19 kmN RMS: 0.30 secs
Locality: SOUND OF JURA
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
GMK	SZ	51.8	IP		C	12:14	31.69			-0.17
PMS	SZ	60.6	EP			12:14	33.17			-0.10
GCL	SZ	85.2	IP		D	12:14	37.08			0.01
EAB	SZ	95.6	EP			12:14	38.42			-0.27
PCO	SZ	103.0	EP			12:14	39.88			0.10
GAL	SN	122.0	ES	2		12:14	56.92			-0.41
GAL	SE	122.0	AML			12:14	59.12	73	0.47	
GAL	SN	122.0	AML			12:15	00.42	35	0.17	
KAR	SZ	124.0	EP			12:14	43.08			-0.01
EAU	SZ	142.0	EP			12:14	46.32			0.57
EDI	EZ	158.0	EP			12:14	48.48			0.41
EDI	EN	158.0	AML			12:15	08.47	42	0.44	
EDI	EE	158.0	AML			12:15	08.93	28	0.29	
KPL	SZ	171.0	EP			12:14	49.91			0.11
KPL	SE	171.0	AML			12:15	13.80	34	0.60	
KPL	SN	171.0	AML			12:15	13.98	22	0.36	
GMM	SZ	175.0	EP			12:14	51.04			0.61
GAL	SZ	122.0	EP			12:14	43.12			0.33

March 6 2006 Time: 19:03 32.1 UTC Magnitude: 0.1 ML
Lat: 49.885N Lon: -5.548W Depth: 5.0 km
Grid Ref: 145.17 kmE 4.42 kmN RMS: 0.10 secs
Locality: ENGLISH CHANNEL
Velocity model: Cornwall Xnear: 50.0 Xfar: 100.0
Comment: 25KM WSW OF LIZARD POINT

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CPZ	SZ	30.4	EP			19:03	37.51			0.00
CPZ	SZ	30.4	ES	3		19:03	41.36			-0.28
CPZ	SZ	30.4	AML			19:03	41.93	4	0.10	
CGH	SZ	33.1	EP			19:03	37.95			-0.02
CGW	SZ	33.4	EP			19:03	38.14			0.11
CMA	SZ	37.3	EP			19:03	38.58			-0.11
CCA	SZ	40.7	EP			19:03	39.33			0.05
CCA	SZ	40.7	AML			19:03	44.64	1	0.15	

March 11 2006 Time: 15:27 23.5 UTC Magnitude: 1.1 ML
Lat: 53.025N Lon: -3.830W Depth: 20.4 km
Grid Ref: 277.28 kmE 349.12 kmN RMS: 0.10 secs
Locality: BETWS-Y-COED,GWYNEDD
Velocity model: Lleyn Xnear: 50.0 Xfar: 100.0
Comment: 6KM SSW OF BETWS-Y-COED

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
YLL	SZ	26.2	IP		D	15:27	28.81			-0.09
WPM	SZ	26.4	IP		D	15:27	29.06			0.10
YRE	SZ	40.3	IP		D	15:27	30.91			0.09
SBD	SZ	40.6	EP			15:27	30.83			-0.08
WLF	SZ	48.0	EP			15:27	31.86			-0.07
WME	SZ	52.1	IP		D	15:27	32.60			0.06
YRC	SZ	55.9	EP			15:27	33.01			-0.08
WCB	SZ	62.0	EP			15:27	33.98			-0.04
WCB	SE	62.0	ES	2		15:27	41.35			0.16
WCB	SE	62.0	AML			15:27	41.51	5	0.16	
WCB	SN	62.0	AML			15:27	46.47	6	0.14	
SSP	SZ	83.2	IP		D	15:27	37.58			0.31
SSP	SN	83.2	AML			15:27	51.25	13	0.16	
SSP	SE	83.2	AML			15:27	51.40	13	0.15	
HLM	SZ	85.3	EP			15:27	37.89			0.29
HAE	SZ	140.0	EP			15:27	46.41			1.01

March 22 2006 Time: 03:11 31.8 UTC Magnitude: 1.0 ML
Lat: 56.177N Lon: -4.236W Depth: 4.1 km
Grid Ref: 261.21 kmE 700.50 kmN RMS: 0.10 secs
Locality: THORNHILL,CENTRAL
Velocity model: Lownet Xnear: 50.0 Xfar: 100.0
Comment: 5KM W OF THORNHILL

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
EBL	SZ	86.9	EP			03:11	46.65			0.19
EDI	EN	71.1	AML			03:11	53.04	8	0.23	
EAB	SZ	6.5	IP		C	03:11	33.46			-0.02
EDI	EE	71.1	AML			03:11	52.84	8	0.14	
EDI	EN	71.1	ES	2		03:11	52.55			-0.26
EDI	EZ	71.1	EP			03:11	44.02			0.07
EAU	SZ	61.5	EP			03:11	42.50			0.00

March 22 2006 Time: 03:12 49.5 UTC Magnitude: 1.1 ML
Lat: 56.181N Lon: -4.234W Depth: 2.6 km
Grid Ref: 261.35 kmE 700.95 kmN RMS: 0.10 secs
Locality: THORNHILL,CENTRAL
Velocity model: Lownet Xnear: 50.0 Xfar: 100.0
Comment: 5KM W OF THORNHILL

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
EAB	SZ	6.5	IP		C	03:12	50.93			0.07
EAU	SZ	61.7	EP			03:12	59.99			-0.06
EDI	EZ	71.2	EP			03:13	01.43			-0.06
EDI	EE	71.2	ES	2		03:13	10.02			-0.23
EDI	EE	71.2	AML			03:13	10.36	9	0.19	
EDI	EN	71.2	AML			03:13	10.42	9	0.31	
EBL	SZ	87.1	EP			03:13	04.15			0.14

March 23 2006 Time: 07:54 59.0 UTC Magnitude: 1.1 ML
Lat: 52.362N Lon: -2.611W Depth: 15.4 km
Grid Ref: 358.40 kmE 273.99 kmN RMS: 0.10 secs
Locality: LUDLOW,SHROPSHIRE
Velocity model: Mid Wales Xnear: 50.0 Xfar: 100.0
Comment: 5KM SE OF LUDLOW

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HLM	SZ	25.3	IP		C	07:55	03.96			-0.13
SSP	SZ	34.7	IP		C	07:55	05.62			0.14
SSP	SN	34.7	ES	2		07:55	10.20			0.05
SSP	SE	34.7	AML			07:55	10.32	18	0.14	
SSP	SN	34.7	AML			07:55	10.53	15	0.28	
HAE	SZ	36.4	IP		D	07:55	05.78			0.04
MCH	HZ	48.4	EP			07:55	07.60			0.06
MCH	HN	48.4	ES			07:55	13.59			-0.09
MCH	HE	48.4	AML			07:55	14.04	30	0.14	
MCH	HN	48.4	AML			07:55	14.04	22	0.11	
HTR	SZ	54.9	IP		D	07:55	08.48			-0.04

March 23 2006 Time: 08:02 54.2 UTC Magnitude: 1.1 ML
Lat: 52.361N Lon: -2.613W Depth: 15.4 km
Grid Ref: 358.26 kmE 273.88 kmN RMS: 0.10 secs
Locality: LUDLOW,SHROPSHIRE
Velocity model: Mid Wales Xnear: 50.0 Xfar: 100.0
Comment: 5KM SE OF LUDLOW

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HLM	SZ	25.3	IP		C	08:02	59.11			-0.14
SSP	SZ	34.5	IP		C	08:03	00.77			0.14
SSP	SN	34.5	ES	2		08:03	05.34			0.06

TABLE 2 : PHASE DATA

SSP	SE	34.5	AML		08:03	05.48	21	0.14	
SSP	SN	34.5	AML		08:03	05.72	13	0.07	
HAE	SZ	36.4	IP	D	08:03	00.93			0.03
MCH	HZ	48.3	EP		08:03	02.72			0.04
MCH	HN	48.3	ES		08:03	08.75			-0.05
MCH	HN	48.3	AML		08:03	09.03	23	0.19	
MCH	HE	48.3	AML		08:03	09.19	31	0.15	
HTR	SZ	54.7	EP		08:03	03.62			-0.04

March 23 2006 Time: 18:56 29.2 UTC Magnitude: 1.8 ML
Lat: 51.752N Lon: -3.076W Depth: 14.3 km
Grid Ref: 325.73 kmE 206.52 kmN RMS: 0.20 secs
Locality: ABERTILLERY,GWENT
Velocity model: Mid Wales Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HGH	SZ	22.6	IP		D	18:56	33.76			-0.03
MCH	HZ	27.8	IP		C	18:56	34.75			0.19
MCH	HN	27.8	ES			18:56	38.35			-0.05
MCH	HN	27.8	AML			18:56	39.13	225	0.09	
MCH	HE	27.8	AML			18:56	39.20	190	0.14	
HTR	SZ	38.7	IP		C	18:56	36.36			0.12
HAE	SZ	48.5	IP		C	18:56	37.56			-0.23
SSP	SZ	74.1	EP			18:56	41.64			-0.07
SSP	SN	74.1	ES	2		18:56	50.74			0.04
SSP	SN	74.1	AML			18:56	50.98	30	0.20	
SSP	SE	74.1	AML			18:56	51.58	52	0.21	
HSA	SZ	74.4	EP			18:56	41.68			-0.05
HLM	SZ	86.3	EP			18:56	43.34			-0.20
SSW	SZ	87.8	EP			18:56	44.05			0.30
SWK	SZ	88.5	EP			18:56	43.77			-0.07
HEX	SZ	91.5	IP		C	18:56	44.29			-0.01
HTL	HZ	129.0	EP			18:56	50.05			0.08
HTL	HE	129.0	AML			18:57	05.14	14	0.26	
HTL	HN	129.0	AML			18:57	05.38	12	0.41	
SBD	SZ	129.0	EP			18:56	50.27			0.31
HTL	HN	129.0	ES			18:57	04.99			0.08

April 2 2006 Time: 21:27 24.2 UTC Magnitude: 1.6 ML
Lat: 57.896N Lon: -5.526W Depth: 4.3 km
Grid Ref: 191.05 kmE 895.04 kmN RMS: 0.20 secs
Locality: GRUINARD BAY,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
RRR	SZ	17.2	IP		D	21:27	27.81			0.21
RRR	SE	17.2	ES			21:27	29.85			-0.23
REB	SZ	28.8	IP		D	21:27	29.61			0.04
KAC	SZ	46.2	IP		C	21:27	32.25			-0.21
RSC	SZ	54.6	IP		D	21:27	33.60			-0.14
KPL	SZ	62.4	EP			21:27	34.89			-0.05
KPL	SE	62.4	AML			21:27	43.57	28	0.33	
KPL	SN	62.4	AML			21:27	49.30	14	0.20	
RTO	SZ	67.1	EP			21:27	35.83			0.16
RRH	SZ	69.0	EP			21:27	35.88			-0.09
KSB	SZ	76.6	IP		D	21:27	37.17			-0.05
KAR	SZ	110.0	EP			21:27	43.00			0.61
MLA	SZ	135.0	EP			21:27	46.01			-0.21
MCD	SZ	140.0	EP			21:27	47.09			0.24
MCD	SN	140.0	ES			21:28	02.84			-0.55
MCD	SE	140.0	AML			21:28	05.07	24	0.22	
MCD	SN	140.0	AML			21:28	05.69	14	0.25	

April 14 2006 Time: 20:56 27.4 UTC Magnitude: 3.3 ML
Lat: 62.011N Lon: 2.407W Depth: 15.0 km
Grid Ref: 630.59 kmE 1355.66 kmN RMS: 0.30 secs
Locality: NORWEGIAN SEA
Velocity model: North Sea Xnear: 400.0 Xfar: 600.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LRW	SZ	285.0	EP			20:57	06.92			0.14
LRW	SN	285.0	ES	3		20:57	36.26			0.72
LRW	SE	285.0	AML			20:57	39.82	49	0.22	
LRW	SN	285.0	AML			20:57	40.42	44	0.38	
WAL	SZ	292.0	EP			20:57	07.62			-0.06
WAL	SZ	292.0	ES	3		20:57	37.22			0.13
OBR	SZ	488.0	EP			20:57	31.93			-0.04
ORE	SZ	515.0	EP			20:57	35.30			-0.05
ORE	SN	515.0	ES	3		20:58	24.40			-0.57
ORE	SN	515.0	AML			20:58	31.29	18	0.42	
ORE	SE	515.0	AML			20:58	41.80	14	0.52	
MLA	SZ	522.0	ES			20:58	26.27			-0.32
OTO	SZ	543.0	EP			20:57	38.10			-0.77
MCD	SZ	586.0	EP			20:57	43.77			-0.50
MCD	SE	586.0	ES	3		20:58	40.46			0.06
MCD	SN	586.0	AML			20:58	43.18	28	0.58	
MCD	SE	586.0	AML			20:58	43.78	33	0.36	
MME	SZ	604.0	EP			20:57	46.06			-0.42
MME	SZ	604.0	ES	3		20:58	44.37			0.15
ESY	SZ	737.0	EP			20:58	02.56			-0.44
EDI	EZ	750.0	EP			20:58	04.62			0.05
EDI	EN	750.0	AML			20:59	20.57	12	0.40	
EDI	EE	750.0	AML			20:59	23.43	9	0.44	
EAB	SZ	754.0	EP			20:58	04.67			-0.43
EBL	SZ	762.0	EP			20:58	06.36			0.26
EAU	SZ	764.0	EP			20:58	06.20			-0.18

April 20 2006 Time: 01:45 50.7 UTC Magnitude: 1.9 ML
Lat: 56.676N Lon: -5.233W Depth: 7.5 km
Grid Ref: 201.96 kmE 758.46 kmN RMS: 0.20 secs
Locality: BALLACHULISH,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0
Comment: FELT BALLACHULISH Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
GMK	SZ	150.0	EP			01:46	13.38			-1.09
EDI	HZ	152.0	IP		D	01:46	15.46			0.71
EDI	HN	152.0	ES	2		01:46	32.93			0.61
EDI	HN	152.0	AML			01:46	34.07	19	0.30	
EDI	HE	152.0	AML			01:46	34.14	29	0.54	
MCD	SZ	157.0	EP			01:46	14.03			-1.45
MCD	SN	157.0	AML			01:46	36.11	35	0.27	
ESY	SZ	183.0	EP			01:46	20.17			1.24
MCD	SE	157.0	AML			01:46	36.58	43	0.25	
EBL	SZ	169.0	EP			01:46	17.88			0.66
RSC	SZ	186.0	EP			01:46	18.62			-0.69
GCL	SZ	186.0	EP			01:46	19.43			0.05
GAL	SZ	204.0	EP			01:46	21.40			-0.15
GAL	SE	204.0	AML			01:46	47.87	9	0.18	
GAL	SN	204.0	AML			01:46	49.16	5	0.12	
PGB	HN	107.0	AML			01:46	21.42	12	0.27	
RRR	SN	136.0	ES	2		01:46	28.08			-0.32
EAB	SZ	77.4	IP		C	01:46	03.45			-0.15
PGB	HZ	107.0	IP		D	01:46	08.54			0.39
PGB	HN	107.0	ES			01:46	20.71			-0.18
PGB	HE	107.0	AML			01:46	22.09	12	0.38	
RRR	SZ	136.0	EP			01:46	12.60			0.11
RRR	SE	136.0	AML			01:46	29.81	46	0.22	
RRR	SN	136.0	AML			01:46	30.37	32	0.30	
EAU	SZ	144.0	IP		C	01:46	14.24			0.53
KAR	SZ	45.4	IP		C	01:45	58.48			-0.13
KSB	SZ	60.5	IP		D	01:46	00.74			-0.26
KAC	SZ	91.7	EP			01:46	05.98			0.19
KSK	SZ	125.0	EP			01:46	11.30			0.33
KPL	HZ	78.1	EP			01:46	03.79			0.14
KPL	HN	78.1	AML			01:46	16.49	50	0.12	
KPL	HE	78.1	ES	2		01:46	12.96			-0.15
KPL	HE	78.1	AML			01:46	16.85	77	0.13	

April 25 2006 Time: 13:44 00.0 UTC
Lat: Lon: Depth:
Grid Ref: RMS:
Locality: SONIC-FELT LANCASHIRE
Comment: CONFIRMED SONIC Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LDU	M		EP			13:45	10.43			

April 25 2006 Time: 13:54 00.0 UTC
Lat: Lon: Depth:
Grid Ref: RMS:
Locality: SONIC-FELT LANCASHIRE
Comment: CONFIRMED SONIC Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LDU	M		EP			13:58	06.31			

April 25 2006 Time: 14:00 00.0 UTC
Lat: Lon: Depth:
Grid Ref: RMS:
Locality: SONIC-FELT LANCASHIRE
Comment: CONFIRMED SONIC Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LDU	M		EP			14:04	11.99			

May 23 2006 Time: 03:22 41.9 UTC Magnitude: 1.5 ML
Lat: 53.185N Lon: -4.332W Depth: 9.5 km
Grid Ref: 244.20 kmE 367.89 kmN RMS: 0.10 secs
Locality: ANGLESEY,GWYNEDD
Velocity model: Lleyn Xnear: 100.0 Xfar: 150.0
Comment: FELT SOUTHERN ANGLESEY Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
YLL	SZ	11.9	IP		C	03:22	44.61			0.12
WLF	SZ	12.3	IP		D	03:22	44.62			0.09
YRC	SZ	17.8	IP		D	03:22	45.30			0.00
YRE	SZ	23.5	IP		C	03:22	46.12			-0.07
WME	SZ	23.6	IP		D	03:22	46.20			0.00
WCB	SZ	25.8	IP		D	03:22	46.54			0.00
WCB	SN	25.8	ES	2		03:22	49.75			0.05
WCB	SN	25.8	AML			03:22	49.85	36	0.07	
WCB	SE	25.8	AML			03:22	50.04	30	0.13	
WPM	SZ	29.7	IP		C	03:22	47.22			0.05
SBD	SZ	78.5	EP			03:22	54.75			-0.35
SBD	SZ	78.5	AML			03:23	04.67	35	0.27	
SSP	SZ	119.0	EP			03:23	01.45			0.18
SSP	SE	119.0	AML			03:23	17.72	16	0.22	
SSP	SN	119.0	AML			03:23	18.35	14	0.17	
HLM	SZ	123.0	EP			03:23	02.09			0.18
DSB	BE	137.0	EP			03:23	04.36			0.36
DSB	BN	137.0	ES	2		03:23	19.24			0.20
DSB	BN	137.0	AML			03:23	20.94	11	0.39	
DSB	BZ	137.0	AML			03:23	22.29	9	0.32	
HTR	SZ	143.0	EP			03:23	04.95			-0.01
MCH	SZ	160.0	EP			03:23	07.42			0.09
MCH	SN	160.0	AML			03:23	27.47	10	0.25	
MCH	SE	160.0	AML			03:23	28.65	10	0.17	
HGH	SZ	201.0	EP			03:23	12.81			0.36

May 25 2006 Time: 13:07 00.0 UTC
Lat: Lon: Depth:
Grid Ref: RMS:
Locality: SONIC-NW ENGLAND
Comment: FELT CHESHIRE... Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES

May 30 2006 Time: 14:46 13.4 UTC Magnitude: 0.7 ML
Lat: 53.500N Lon: -4.336W Depth: 14.3 km
Grid Ref: 245.07 kmE 402.93 kmN RMS: 0.10 secs
Locality: OFF ANGLESEY,GWYNEDD
Velocity model: Lleyn Xnear: 50.0 Xfar: 100.0
Comment: 9KM NORTH OF ANGLESEY

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WME	SZ	11.7	IP		D	14:46	16.51			0.06
WCB	SZ	19.5	IP		C	14:46	17.32			-0.08
WCB	SE	19.5	ES	1		14:46	20.21			0.06
WCB	SE	19.5	AML			14:46	20.34	19	0.07	
WCB	SN	19.5	AML			14:46	20.47	16	0.15	
WLF	SZ	23.8	EP			14:46	17.99			0.01
YRC	SZ	31.9	EP			14:46	19.04			-0.13
WPM	SZ	39.3	EP			14:46	20.24			-0.08

TABLE 2 : PHASE DATA

YRE	SZ	58.0	EP		14:46	23.41			0.24
WIM	SZ	75.4	EP		14:46	26.00			0.13

June 7 2006 Time: 11:10 00.0 UTC
Lat: Lon: Depth:
Grid Ref: RMS:
Locality: SONIC-ORKNEY ISLANDS
Comment: FELT STROMNESS,ROUSAY Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
OTO	SZ		EP			11:15	36.60			
OBR	SZ		EP			11:14	28.04			
ORE	SZ		EP			11:14	41.24			
ORE	M		EP			11:14	40.26			

June 8 2006 Time: 12:23 48.1 UTC Magnitude: 2.9 ML
Lat: 57.531N Lon: -5.642W Depth: 8.3 km
Grid Ref: 182.00 kmE 854.81 kmN RMS: 0.20 secs
Locality: SHIELDAIG,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 100.0
Comment: FELT GAIRLOCH... Intensity: 4

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
PGB	HN	204.0	AML			12:24	52.06	72	0.40	
PGB	HE	204.0	AML			12:24	47.67	86	0.40	
MLA	SZ	160.0	EPg			12:24	13.85			-0.01
PGB	HZ	204.0	EP			12:24	19.33			0.37
OBR	SZ	190.0	EP			12:24	15.28			-1.82
EAB	SZ	169.0	EP			12:24	14.69			0.08
MME	SZ	163.0	EP			12:24	12.72			-1.04
GAL	SE	302.0	AML			12:25	15.65	91	0.33	
EDI	EN	234.0	AML			12:24	59.38	54	0.32	
KPL	HZ	21.4	IP		D	12:23	52.36			0.06
GMK	SZ	243.0	EP			12:24	22.72			-1.12
GAL	SZ	302.0	EP			12:24	30.61			-0.58
GAL	SN	302.0	AML			12:25	14.96	48	0.56	
BHH	SN	310.0	AML			12:25	15.22	19	0.44	
BHH	SE	310.0	AML			12:25	15.86	28	0.38	
KAR	SZ	69.1	IP		D	12:23	59.53			-0.20
MCD	SN	143.0	ES			12:24	27.77			0.20
RRR	SZ	37.6	EP			12:23	54.80			-0.02
ORE	SE	159.0	ES	2		12:24	31.45			0.12
MVH	SZ	97.4	EP			12:24	04.15			0.04
RSC	SZ	95.2	IP		D	12:24	03.71			-0.04
RRH	SZ	75.8	IP		C	12:24	00.55			-0.21
REB	SZ	68.9	IP		D	12:23	59.68			0.00
KPL	HE	21.4	ES			12:23	55.18			-0.17
KSK	SZ	63.9	IP		C	12:23	59.37			0.44
RRR	SE	37.6	ES	2		12:23	59.43			-0.27
KPL	HE	21.4	AML			12:23	55.40	7551	0.22	
KPL	HN	21.4	AML			12:23	55.30	5191	0.12	
ORE	SZ	159.0	EP		C	12:24	11.80			-1.31
RTO	SZ	100.0	IP		C	12:24	04.50			0.00
OTO	SZ	130.0	EP			12:24	08.96			-0.15
MCD	SZ	143.0	EP			12:24	10.52			-0.41
MCD	SZ	143.0	EPg			12:24	11.76			0.55
ORE	SN	159.0	AML			12:24	33.56	171	0.20	
ORE	SE	159.0	AML			12:24	34.23	171	0.18	
MLA	SZ	160.0	EP			12:24	11.38			-1.98
MME	SZ	163.0	EPg			12:24	14.67			0.38
BHH	SZ	310.0	EP			12:24	32.10			-0.09
EDI	EE	234.0	AML			12:24	56.89	74	0.34	
KAC	SZ	20.9	IP		C	12:23	52.42			0.16

June 19 2006 Time: 14:03 14.1 UTC Magnitude: 1.1 ML
Lat: 55.082N Lon: -4.192W Depth: 7.5 km
Grid Ref: 260.09 kmE 578.60 kmN RMS: 0.50 secs
Locality: NEW GALLOWAY,D & G
Velocity model: Lownet Xnear: 75.0 Xfar: 100.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
PMS	SZ	91.9	EP			14:03	30.03			0.75
PGB	HZ	83.2	EP			14:03	28.50			0.60
PGB	HN	83.2	ES	2		14:03	38.12			0.15
PGB	HN	83.2	AML			14:03	40.64	6	0.16	
PGB	HE	83.2	AML			14:03	39.81	7	0.18	
XDE	SZ	78.5	EP			14:03	27.77			0.59
CKE	SZ	88.9	EP			14:03	29.66			0.86
CDU	SZ	105.0	EP			14:03	32.21			0.90
BHH	SZ	62.2	EP			14:03	24.77			0.13
BWH	SZ	35.8	IP		C	14:03	20.60			0.04
GAL	SN	41.0	ES			14:03	26.16			-0.46
GAL	SN	41.0	AML			14:03	26.93	34	0.20	
GAL	SE	41.0	AML			14:03	27.64	15	0.38	
GMM	SZ	147.0	EP			14:03	38.40			0.86
GCL	SZ	124.0	EP			14:03	35.14			0.97
GMK	SZ	93.9	EP			14:03	30.68			1.13
ESK	HZ	68.0	EP			14:03	25.57			0.02
ESK	HN	68.0	ES			14:03	33.22			-0.68
ESK	HN	68.0	AML			14:03	34.85	17	0.26	
ESK	HE	68.0	AML			14:03	38.70	10	0.12	
GAL	SZ	41.0	IP		C	14:03	21.29			-0.06

June 22 2006 Time: 04:23 35.7 UTC Magnitude: 1.9 ML
Lat: 56.212N Lon: -4.910W Depth: 2.2 km
Grid Ref: 219.55 kmE 705.96 kmN RMS: 0.40 secs
Locality: LOCHGOILHEAD,S'CLYDE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 5KM N OF LOCHGOILHEAD

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
EAB	SZ	35.6	IP		C	04:23	42.14			-0.18
PMS	SZ	42.1	IP		D	04:23	43.74			0.31
PGB	HZ	51.9	EP			04:23	45.28			0.23
PGB	HN	51.9	ES	2		04:23	51.20			-0.67
PGB	HN	51.9	AML			04:23	53.76	49	0.30	
PGB	HE	51.9	AML			04:23	55.82	31	0.45	
PCO	SZ	56.2	IP		C	04:23	45.74			0.01
KAR	SZ	96.9	EP			04:23	52.00			-0.01
EAU	SZ	99.9	IP		C	04:23	52.42			-0.10
GMK	SZ	106.0	EP			04:23	53.32			-0.03
EDI	HZ	112.0	EP			04:23	54.43			0.09
EDI	HN	112.0	AML			04:24	10.18	46	0.19	
EDI	HE	112.0	AML			04:24	10.60	23	0.25	
KPL	HZ	133.0	EP			04:23	57.99			0.35
KPL	HN	133.0	AML			04:24	17.54	16	0.29	
KPL	HE	133.0	AML			04:24	17.58	20	0.34	
KAC	SZ	145.0	EP			04:23	58.92			-0.44
ESY	SZ	147.0	EP			04:23	59.75			0.15
GCL	SZ	148.0	EP			04:23	59.05			-0.67
GAL	SN	150.0	AML			04:24	18.61	17	0.28	
GAL	SE	150.0	AML			04:24	19.03	21	0.31	
MCD	SZ	183.0	EP			04:24	03.17			-1.43
MCD	SN	183.0	ES	2		04:24	27.48			1.79
MCD	SE	183.0	AML			04:24	28.15	46	0.42	
MCD	SN	183.0	AML			04:24	29.07	44	0.32	

June 29 2006 Time: 14:30 58.2 UTC Magnitude: 0.4 ML
Lat: 57.472N Lon: -5.585W Depth: 2.9 km
Grid Ref: 185.06 kmE 848.06 kmN RMS: 0.30 secs
Locality: SHIELDAIG,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	15.3	IP		D	14:31	01.55			0.31
KPL	HZ	15.3	E			14:31	01.56			
KPL	HE	15.3	ES			14:31	03.23			-0.25
KPL	HN	15.3	AML			14:31	03.50	9	0.14	
KPL	HE	15.3	AML			14:31	03.56	19	0.20	
KAC	SZ	17.4	IP		C	14:31	01.97			0.32
KAC	SZ	17.4	ES			14:31	03.79			-0.38

June 29 2006 Time: 21:22 33.2 UTC Magnitude: 1.6 ML
Lat: 55.998N Lon: -5.735W Depth: 6.0 km
Grid Ref: 167.13 kmE 684.63 kmN RMS: 0.40 secs
Locality: SOUND OF JURA,S'CLYDE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
PMS	SZ	64.1	EP			21:22	43.90			-0.29
PGB	HZ	81.0	EP			21:22	46.68			-0.09
PGB	HN	81.0	ES			21:22	56.84			0.19
PGB	HN	81.0	AML			21:22	59.50	21	0.20	
PGB	HE	81.0	AML			21:22	59.54	34	0.34	
EAB	SZ	89.5	EP			21:22	47.85			-0.26
PCO	SZ	102.0	EP			21:22	49.99			-0.05
EAU	SZ	144.0	EP			21:22	57.24			0.88
KPL	HZ	149.0	EP			21:22	57.33			0.28
KPL	HN	149.0	ES	4		21:23	14.72			0.27
KPL	HN	149.0	AML			21:23	16.52	5	0.44	
KPL	HE	149.0	AML			21:23	16.91	10	0.46	
EDI	EE	159.0	AML			21:23	20.12	7	0.18	
EDI	EN	159.0	AML			21:23	21.03	10	0.30	
KAC	SZ	169.0	EP			21:23	00.36			0.45
EBL	SZ	170.0	EP			21:23	00.73			0.64
ESK	HZ	176.0	EP			21:23	01.66			0.84
ESK	HE	176.0	AML			21:23	23.52	7	0.52	
ESK	HN	176.0	AML			21:23	24.26	11	0.66	

July 3 2006 Time: 14:52 48.6 UTC Magnitude: 1.5 ML
Lat: 52.642N Lon: -1.877W Depth: 7.5 km
Grid Ref: 408.32 kmE 304.96 kmN RMS: 0.30 secs
Locality: WALSALL,WEST MIDLANDS
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KWE	SZ	41.8	EP			14:52	55.92			-0.02
KWE	SZ	41.8	ES			14:53	00.71			-0.61
HLM	SZ	69.4	EP			14:53	00.21			-0.03
KBI	SZ	72.1	EP			14:53	00.91			0.28
HAE	SZ	81.2	EP			14:53	01.98			-0.06
SBD	SZ	97.7	EP			14:53	05.20			0.55
LHO	SZ	101.0	EP			14:53	05.25			0.17
MCH	HZ	105.0	EP			14:53	05.59			-0.10
MCH	HE	105.0	ES			14:53	17.79			-0.41
MCH	HN	105.0	ES			14:53	17.79			
MCH	HE	105.0	AML			14:53	21.34	13	0.18	
MCH	HN	105.0	AML			14:53	21.62	12	0.16	
HTR	SZ	114.0	EP			14:53	07.10			0.03
HGH	SZ	129.0	EP			14:53	09.52			0.22
WPM	SZ	153.0	EP			14:53	12.99			0.22
YRE	SZ	176.0	EP			14:53	15.83			-0.08

July 3 2006 Time: 15:17 40.5 UTC Magnitude: 1.5 ML
Lat: 56.869N Lon: -5.190W Depth: 3.5 km
Grid Ref: 205.59 kmE 779.81 kmN RMS: 0.20 secs
Locality: LOCH EIL,HIGHLAND
Velocity model: Lownet Xnear: 75.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KAR	SZ	39.3	IP		C	15:17	47.62			-0.06
KPL	HZ	59.4	IP		C	15:17	50.90			0.06
KPL	HN	59.4	ES	2		15:17	58.10			-0.27
KPL	HE	59.4	AML			15:18	02.81	26	0.12	
KPL	HN	59.4	AML			15:18	02.84	20	0.10	
KAC	SZ	70.5	EP			15:17	52.58			-0.01
EAB	SZ	92.1	EP			15:17	55.78			-0.19
KSK	SZ	113.0	EP			15:17	59.48			0.29
PMS	SZ	117.0	EP			15:18	00.24			0.38
PGB	HZ	126.0	EP			15:18	01.65			0.52
PGB	HN	126.0	ES			15:18	15.92			-0.27
PGB	HN	126.0	AML			15:18	17.38	8	0.24	
PGB	HE	126.0	AML			15:18	20.19	6	0.26	
MCD	SZ	141.0	EP			15:18	03.77			0.29
MCD	SN	141.0	ES			15:18	20.89			0.64
MCD	SN	141.0	AML			15:18	21.50	11	0.54	
MCD	SE	141.0	AML			15:18	21.97	15	0.28	
MME	SZ	144.0	EP			15:18	03.92			0.07
EAU	SZ	157.0	EP			15:18	05.68			-0.01
EDI	EE	162.0	ES			15:18	26.09			0.71
EDI	EN	162.0	AML			15:18	27.65	10	0.34	
EDI	EE	162.0	AML			15:18	27.69	9	0.26	

TABLE 2 : PHASE DATA

EBL	SZ	180.0	EP		15:18	09.31			0.39

July 9 2006 Time: 21:05 00.0 UTC
Lat: Lon: Depth:
Grid Ref: RMS:
Locality: POSSIBLE SONIC-THAMES
Comment: FELT CANTERBURY...

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES

July 9 2006 Time: 21:09 49.5 UTC Magnitude: 1.5 ML
Lat: 56.162N Lon: -4.901W Depth: 1.6 km
Grid Ref: 219.88 kmE 700.37 kmN RMS: 0.20 secs
Locality: LOCHGOILHEAD,S'CLYDE
Velocity model: Lownet Xnear: 50.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HN	139.0	AML			21:10	30.23	12	0.21	
EAB	SZ	35.1	IP		C	21:09	55.92			-0.19
EDI	HN	110.0	ES	2		21:10	21.62			0.23
EBL	SZ	124.0	EP			21:10	10.09			-0.02
EAU	SZ	97.3	EP			21:10	06.16			0.17
EDI	HN	110.0	AML			21:10	25.23	36	0.25	
KAR	SZ	102.0	EP			21:10	06.75			0.10
KAC	SZ	151.0	EP			21:10	13.35			-0.69
ESK	HN	142.0	ES	2		21:10	30.49			0.62
ESK	HN	142.0	AML			21:10	32.35	8	0.20	
PGB	HZ	46.9	IP		C	21:09	58.18			0.08
KPL	HZ	139.0	EP			21:10	11.71			-0.59
ESK	HZ	142.0	EP			21:10	13.25			0.43
EDI	HZ	110.0	EP			21:10	08.23			0.31
PGB	HE	46.9	ES	2		21:10	04.28			-0.11
PGB	HE	46.9	AML			21:10	05.09	17	0.21	
KPL	HE	139.0	ES	2		21:10	27.69			-1.28
KPL	HE	139.0	AML			21:10	28.43	14	0.23	
ESK	HE	142.0	AML			21:10	32.10	13	0.18	
EDI	HE	110.0	AML			21:10	24.72	16	0.31	
PGB	HN	46.9	AML			21:10	04.64	22	0.25	
PMS	SZ	36.5	IP		D	21:09	56.25			-0.11
PCO	SZ	53.5	IP		C	21:09	59.32			0.14

July 20 2006 Time: 23:15 11.9 UTC Magnitude: 1.1 ML
Lat: 56.380N Lon: -5.412W Depth: 4.6 km
Grid Ref: 189.36 kmE 726.07 kmN RMS: 0.00 secs
Locality: OBAN,STRATHCLYDE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
EAB	SZ	69.8	EP			23:15	23.83			-0.01
PMS	SZ	72.5	IP		D	23:15	24.27			0.01
PCO	SZ	92.4	EP		D	23:15	27.33			0.00
KPL	HZ	108.0	EP			23:15	29.64			-0.04
KPL	HE	108.0	ES			23:15	42.65			0.00
KPL	HN	108.0	AML			23:15	46.27	2	0.20	
KPL	HE	108.0	AML			23:15	48.24	4	0.22	
KAC	SZ	125.0	EP			23:15	32.42			0.07
MCD	SN	188.0	AML			23:16	06.74	3	0.40	
MCD	SE	188.0	AML			23:16	07.14	4	0.46	

August 4 2006 Time: 09:26 08.9 UTC Magnitude: 1.1 ML
Lat: 55.516N Lon: -3.849W Depth: 4.3 km
Grid Ref: 283.26 kmE 626.25 kmN RMS: 0.40 secs
Locality: ABINGTON,STRATHCLYDE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
BWH	SZ	39.8	EP			09:26	16.05			-0.49
EAU	SZ	44.5	EP			09:26	17.16			-0.19
ESK	HZ	46.4	IP		C	09:26	17.40			-0.25
ESK	HN	46.4	ES			09:26	23.97			-0.09
ESK	HN	46.4	AML			09:26	25.16	14	0.54	
ESK	HE	46.4	AML			09:26	30.05	21	0.56	
PCO	SZ	54.9	EP			09:26	19.33			0.29
EBL	SZ	58.1	EP			09:26	18.81			-0.77
EDI	HZ	61.5	EP			09:26	20.89			0.84
BHH	SZ	61.8	EP			09:26	20.36			0.25
BBH	SZ	72.2	EP			09:26	22.12			0.39
EAB	SZ	80.9	EP			09:26	22.62			-0.46
ESY	SZ	89.5	EP			09:26	24.61			0.17
XDE	SZ	115.0	EP			09:26	28.77			0.43

August 14 2006 Time: 16:40 45.7 UTC Magnitude: 1.9 ML
Lat: 51.092N Lon: -3.009W Depth: 6.0 km
Grid Ref: 329.35 kmE 133.06 kmN RMS: 0.30 secs
Locality: BRIDGWATER,SOMERSET
Velocity model: default (Lownet) Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH	SE	101.0	AML			16:41	14.92	68	0.34	
MCH	SN	101.0	ES			16:41	14.51			-0.34
DYA	EN	97.8	ES			16:41	13.50			-0.57
DYA	EZ	97.8	EP		C	16:41	02.82			0.53
SWN	SN	96.4	AML			16:41	15.84	38	0.40	
HEX	SZ	55.7	EP			16:40	55.93			0.50
SWN	SN	96.4	ES			16:41	13.76			0.11
SWN	SZ	96.4	EP			16:41	02.00			-0.05
SWK	SZ	53.7	IP		C	16:40	54.85			-0.27
SSW	SZ	126.0	EP			16:41	06.99			0.08
SKP	SZ	168.0	EP			16:41	12.03			-0.23
MCH	SN	101.0	AML			16:41	15.09	109	0.14	
MCH	SZ	101.0	EP			16:41	02.76			0.02
SWN	SE	96.4	AML			16:41	19.41	45	0.74	
HLM	SZ	159.0	EP			16:41	11.28			0.14
HTR	SZ	111.0	EP			16:41	04.32			-0.15
HSA	SZ	108.0	EP			16:41	04.12			0.16
HTL	HN	104.0	AML			16:41	19.48	21	0.28	
HTL	HE	104.0	AML			16:41	18.71	17	0.40	
HTL	HE	104.0	ES			16:41	15.39			
HTL	EN	104.0	ES			16:41	15.39			-0.35
HTL	EZ	104.0	EP			16:41	03.46			
HTL	HZ	104.0	EP			16:41	03.46			0.19
HGH	SZ	62.3	EP			16:40	56.66			0.15

August 15 2006 Time: 05:59 05.0 UTC Magnitude: 1.0 ML
Lat: 53.614N Lon: -4.128W Depth: 9.5 km
Grid Ref: 259.25 kmE 415.18 kmN RMS: 0.00 secs
Locality: IRISH SEA
Velocity model: Lownet Xnear: 50.0 Xfar: 100.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WCB	SE	38.2	AML			05:59	16.95	18	0.08	
WLF	SZ	40.3	IP		D	05:59	12.17			0.01
WPM	SZ	42.3	EP			05:59	12.52			0.00
YRC	SZ	50.2	EP			05:59	13.71			0.03
YLL	SZ	52.8	EP			05:59	14.12			0.01
WIM	SZ	69.4	EP			05:59	16.74			0.01
YRE	SZ	73.2	EP			05:59	17.23			-0.04
WCB	SZ	38.2	EP		C	05:59	11.85			0.00
WCB	SN	38.2	ES	2		05:59	16.69			-0.13
WCB	SN	38.2	AML			05:59	17.11	20	0.10	

August 18 2006 Time: 20:45 44.3 UTC Magnitude: 3.8 ML
Lat: 63.356N Lon: -0.875W Depth: 20.0 km
Grid Ref: 456.28 kmE 1498.15 kmN RMS: 0.20 secs
Locality: NORWEGIAN SEA
Velocity model: North Sea Xnear: 400.0 Xfar: 600.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
FSV	SZ	305.0	IP		C	20:46	25.72			-0.10
FTO	SZ	339.0	EP			20:46	29.92			-0.13
FTO	SN	339.0	ES	2		20:47	03.37			-0.06
FTO	SE	339.0	AML			20:47	05.14	208	0.32	
FTO	SN	339.0	AML			20:47	08.56	135	0.47	
WAL	SZ	348.0	EP			20:46	30.85			-0.24
LRW	HZ	359.0	EP			20:46	32.74			0.22
LRW	HN	359.0	ES	2		20:47	07.89			0.19
LRW	HE	359.0	AML			20:47	11.96	120	0.29	
LRW	HN	359.0	AML			20:47	12.92	87	0.28	
FVA	SZ	361.0	EP			20:46	33.14			0.29
OBR	SZ	543.0	EP			20:46	54.79			-0.51
ORE	SZ	558.0	EP			20:46	56.76			-0.45
ORE	SN	558.0	AML			20:47	54.12	68	0.32	
ORE	SE	558.0	AML			20:47	56.08	102	0.40	
MVH	SZ	631.0	EP			20:47	05.93			-0.41
MCD	SZ	656.0	EP			20:47	09.28			-0.16
MCD	SE	656.0	ES	2		20:48	11.02			-0.55
MCD	SE	656.0	AML			20:48	15.85	62	0.38	
MCD	SN	656.0	AML			20:48	15.90	82	0.28	
EDI	HZ	838.0	EP			20:47	33.69			1.69
EDI	HN	838.0	AML			20:48	55.13	22	0.59	
EDI	HE	838.0	AML			20:48	57.60	26	0.37	

August 29 2006 Time: 16:05 00.7 UTC Magnitude: 1.9 ML
Lat: 56.488N Lon: -4.375W Depth: 11.9 km
Grid Ref: 253.78 kmE 735.39 kmN RMS: 0.30 secs
Locality: KILLIN,CENTRAL
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
PCO	SZ	58.3	EP			16:05	10.63			-0.04
PGB	HZ	75.7	EP	4		16:05	33.32			19.97
PGB	HE	75.7	ES	4		16:05	41.98			19.41
EAU	SZ	91.9	EP			16:05	15.71			-0.18
EDI	HZ	96.9	EP			16:05	17.22			0.60
EDI	HE	96.9	AML			16:05	31.41	30	0.33	
EDI	HN	96.9	AML			16:05	31.69	26	0.17	
KAR	SZ	101.0	EP			16:05	17.44			0.16
KSB	SZ	103.0	IP		C	16:05	17.29			-0.25
EBL	SZ	115.0	IP		D	16:05	19.22			-0.07
KPL	HZ	123.0	EP			16:05	20.49			0.18
KPL	HE	123.0	ES	2		16:05	35.10			0.48
KPL	HN	123.0	AML			16:05	35.68	30	0.14	
KPL	HE	123.0	AML			16:05	35.76	42	0.29	
KAC	SZ	126.0	EP			16:05	20.63			-0.17
ESY	SZ	126.0	EP			16:05	20.54			-0.38
ESK	HZ	150.0	EP			16:05	24.25			0.04
ESK	HE	150.0	ES	2		16:05	41.64			0.27
ESK	HN	150.0	AML			16:05	44.41	12	0.14	
ESK	HE	150.0	AML			16:05	44.52	19	0.17	
EAB	SZ	33.5	IP		D	16:05	06.72			-0.15

September 4 2006 Time: 15:47 16.7 UTC Magnitude: 2.2 ML
Lat: 54.641N Lon: -3.085W Depth: 6.3 km
Grid Ref: 329.98 kmE 527.87 kmN RMS: 0.20 secs
Locality: KESWICK,CUMBRIA
Velocity model: Lownet Xnear: 75.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CKE	SZ	6.1	IP		D	15:47	18.79			0.29
BBO	SZ	14.9	EP			15:47	19.74			-0.07
BBO	SN	14.9	ES			15:47	22.06			-0.03
BDL	SZ	20.4	IP		C	15:47	20.60			-0.11
XDE	SZ	30.2	EP			15:47	22.30			-0.06
CDU	SZ	34.6	IP		D	15:47	22.83			-0.23
BHH	SZ	51.1	IP		D	15:47	25.59			0.01
BHH	SE	51.1	ES	2		15:47	32.25			0.18
BBH	SZ	55.7	EP			15:47	26.24			-0.06
BWH	SZ	69.9	EP			15:47	28.62			0.11
GIM	SZ	97.6	EP			15:47	32.91			0.09
GIM	SN	97.6	ES			15:47	44.64			0.04
GIM	SN	97.6	AML			15:47	46.32	139	0.56	
GIM	SE	97.6	AML			15:47	47.05	107	0.34	
GAL	SZ	108.0	EP			15:47	34.49			0.16
GAL	SN	108.0	ES			15:47	47.04			-0.17
GAL	SN	108.0	AML			15:47	48.06	91	0.58	
GAL	SE	108.0	AML			15:47	48.35	49	0.20	
WIM	SZ	117.0	EP			15:47	35.82			0.00
HPK	SN	122.0	ES	2		15:47	51.62			0.59
EBL	SZ	126.0	EP			15:47	37.55			0.31
WCB	SE	170.0	AML			15:48	05.84	20	0.30	

TABLE 2 : PHASE DATA

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WCB	SN	170.0	AML			15:48	05.90	25	0.46	

September 24 2006 Time: 22:24 45.6 UTC Magnitude: 1.1 ML
Lat: 54.554N Lon: -3.705W Depth: 5.0 km
Grid Ref: 289.74 kmE 518.99 kmN RMS: 0.50 secs
Locality: IRISH SEA
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: OFFSHORE WHITEHAVEN

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
BHH	SZ	67.7	EP			22:24	56.90			-0.27
BHH	SN	67.7	ES	2		22:25	05.65			0.05
BHH	SN	67.7	AML			22:25	09.59	3	0.15	
BHH	SE	67.7	AML			22:25	10.64	2	0.17	
BWH	SZ	69.3	EP			22:24	57.46			0.03
GAL	HE	73.6	EP			22:24	57.85			-0.21
GAL	HN	73.6	ES			22:25	07.32			0.18
GAL	HZ	73.6	AML			22:25	09.27	6	0.17	
GAL	HN	73.6	AML			22:25	09.32	8	0.17	
WIM	SZ	77.5	EP			22:24	58.49			-0.24
ECK	SZ	79.0	EP			22:24	58.24			-0.71
ESK	HZ	90.7	EP			22:25	00.43			-0.32
ESK	HN	90.7	ES	2		22:25	12.40			0.61
ESK	HN	90.7	AML			22:25	14.63	29	0.19	
ESK	HE	90.7	AML			22:25	14.78	41	0.28	
XAL	SZ	102.0	EP			22:25	03.06			0.52
XSO	SZ	140.0	EP			22:25	08.27			-0.01
WCB	SZ	142.0	EP			22:25	08.87			0.36
WCB	SE	142.0	ES	2		22:25	26.14			0.91
EBL	SZ	142.0	EP			22:25	09.00			0.43
WPM	SZ	145.0	EP			22:25	08.82			-0.13
EAU	SZ	145.0	EP			22:25	09.71			0.78
PGB	HZ	149.0	IP		C	22:25	10.36			0.91
PGB	HN	149.0	ES	2		22:25	27.94			1.10
PGB	HN	149.0	AML			22:25	30.10	5	0.57	
PGB	HE	149.0	AML			22:25	31.18	2	0.36	
ESY	SZ	167.0	EP			22:25	12.37			0.27

September 26 2006 Time: 19:34 36.6 UTC Magnitude: 2.1 ML
Lat: 52.041N Lon: -3.140W Depth: 19.2 km
Grid Ref: 321.82 kmE 238.73 kmN RMS: 0.20 secs
Locality: HAY-ON-WYE,HER & WORC
Velocity model: Mid Wales Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HTR	SZ	9.7	IP		D	19:34	40.50			0.27
MCH	HZ	10.9	IP		C	19:34	40.20			-0.10
MCH	HE	10.9	ES			19:34	42.92			-0.05
MCH	HE	10.9	AML			19:34	43.08	509	0.10	
MCH	HN	10.9	AML			19:34	43.12	227	0.13	
HGH	SZ	50.4	IP		D	19:34	45.11			-0.36
HLM	SZ	56.0	EP			19:34	46.07			-0.25
HSA	SZ	76.9	EP			19:34	49.36			-0.07
SSW	SZ	89.0	EP			19:34	51.35			0.11
SBD	SZ	96.5	EP			19:34	52.48			0.08
SWN	SZ	110.0	EP			19:34	54.53			0.21
SWN	SN	110.0	ES			19:35	07.26			0.18
SWK	SZ	117.0	EP			19:34	55.60			0.15
HEX	SZ	118.0	EP			19:34	55.70			0.14
YRE	SZ	136.0	EP			19:34	58.37			0.10
KWE	SZ	140.0	EP			19:34	58.49			-0.25
WPM	SZ	145.0	EP			19:34	59.57			0.18
HTL	HZ	149.0	EP			19:34	59.60			-0.28
HTL	HE	149.0	ES	2		19:35	16.55			-0.10
HTL	HE	149.0	AML			19:35	18.10	46	0.31	
HTL	HN	149.0	AML			19:35	18.53	49	0.26	
WLF	SZ	163.0	EP			19:35	01.86			0.28
SKP	SZ	164.0	EP			19:35	01.66			-0.13
YRC	SZ	166.0	EP			19:35	01.79			-0.18
KBI	SZ	174.0	EP			19:35	03.03			0.08
WCB	SZ	177.0	EP			19:35	04.20			0.89
WCB	SE	177.0	ES	2		19:35	24.65			2.11
WCB	SE	177.0	AML			19:35	25.44	19	0.19	
WCB	SN	177.0	AML			19:35	25.71	22	0.24	

September 26 2006 Time: 21:20 35.0 UTC Magnitude: 1.3 ML
Lat: 52.064N Lon: -2.645W Depth: 9.7 km
Grid Ref: 355.79 kmE 240.87 kmN RMS: 0.10 secs
Locality: HEREFORD,HER & WORC
Velocity model: Mid Wales Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH	HZ	25.3	IP		C	21:20	39.80			0.12
MCH	HE	25.3	ES			21:20	43.09			0.04
MCH	HE	25.3	AML			21:20	43.36	46	0.06	
MCH	HN	25.3	AML			21:20	43.39	186	0.08	
HTR	SZ	42.7	IP		C	21:20	42.28			-0.20
HGH	SZ	48.7	EP			21:20	43.42			-0.04
HLM	SZ	53.0	EP			21:20	44.19			0.01
SBD	SZ	102.0	EP			21:20	52.10			0.04
HEX	SZ	137.0	EP			21:20	57.31			0.08
WPM	SZ	158.0	EP			21:21	00.35			0.03
HTL	HZ	175.0	EP			21:21	02.16			-0.21
HTL	HE	175.0	AML			21:21	23.29	2	0.42	
HTL	HN	175.0	AML			21:21	24.45	3	0.48	

October 11 2006 Time: 18:07 47.4 UTC Magnitude: 1.2 ML
Lat: 56.942N Lon: -5.849W Depth: 4.8 km
Grid Ref: 165.91 kmE 789.99 kmN RMS: 0.20 secs
Locality: ARISAIG,HIGHLAND
Velocity model: default (Lownet) Xnear: 75.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KAR	SZ	2.9	IP		D	18:07	48.66			0.01
KSB	SZ	39.5	EP			18:07	54.48			-0.05
KPL	HZ	45.8	EP			18:07	55.61			0.13
KPL	HE	45.8	ES	3		18:08	01.41			0.20
KPL	HE	45.8	AML			18:08	02.12	18	0.14	
KPL	HN	45.8	AML			18:08	02.44	12	0.34	
KAC	SZ	70.3	EP			18:07	59.56			0.05
KSK	SZ	77.8	EP			18:08	00.73			0.01
RRR	SE	102.0	ES			18:08	16.50			-0.36
RRR	SE	102.0	AML			18:08	16.87	11	0.26	
RRR	SN	102.0	AML			18:08	16.91	7	0.14	
EAB	SZ	125.0	EP			18:08	08.18			-0.26
REB	SZ	135.0	EP			18:08	10.31			0.35
PMS	SZ	140.0	EP			18:08	10.44			-0.12
PGB	HZ	152.0	EP			18:08	11.68			-0.31
PGB	HN	152.0	ES	3		18:08	28.58			-0.87
PGB	HE	152.0	AML			18:08	31.70	4	0.32	
PGB	HN	152.0	AML			18:08	33.15	4	0.56	
MCD	SZ	172.0	EP			18:08	14.32			-0.26
MCD	SE	172.0	ES	3		18:08	34.07			0.20
GAL	SN	242.0	ES	3		18:08	47.94			-0.78

October 13 2006 Time: 04:21 03.8 UTC Magnitude: 1.4 ML
Lat: 56.705N Lon: -5.251W Depth: 6.8 km
Grid Ref: 201.01 kmE 761.74 kmN RMS: 0.40 secs
Locality: BALLACHULISH,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT BALLACHULISH Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KAR	SZ	42.6	EP			04:21	11.57			0.26
KSB	SZ	57.2	EP			04:21	13.24			-0.38
KPL	HZ	74.7	EP			04:21	16.44			0.18
KPL	HE	74.7	ES			04:21	24.96			-0.41
KPL	HE	74.7	AML			04:21	29.19	14	0.34	
KPL	HN	74.7	AML			04:21	29.30	14	0.10	
EAB	SZ	80.5	EP			04:21	16.94			-0.26
KAC	SZ	88.5	EP			04:21	18.71			0.28
PGB	HZ	110.0	EP			04:21	22.35			0.55
PGB	HN	110.0	ES			04:21	34.64			-0.32
PGB	HE	110.0	ES			04:21	34.82			
MCD	SZ	155.0	EP			04:21	28.56			0.10
MCD	SE	155.0	ES			04:21	47.14			0.66
MCD	SN	155.0	AML			04:21	48.67	8	0.14	
MCD	SE	155.0	AML			04:21	49.42	8	0.18	

October 15 2006 Time: 04:35 18.7 UTC Magnitude: 0.9 ML
Lat: 52.858N Lon: -3.597W Depth: 14.9 km
Grid Ref: 292.49 kmE 330.18 kmN RMS: 0.30 secs
Locality: BALA,GYWNEDD
Velocity model: Mid Wales Xnear: 80.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
SBD	SZ	23.4	IP		C	04:35	23.26			-0.16
WPM	SZ	49.1	EP			04:35	27.63			0.30
WPM	SZ	49.1	ES			04:35	33.41			-0.17
YRE	SZ	57.4	EP			04:35	28.89			0.33
YRE	SZ	57.4	ES			04:35	35.51			-0.18
HLM	SZ	61.4	EP			04:35	29.09			-0.09
WLF	SZ	72.0	EP			04:35	30.66			-0.08
WLF	SZ	72.0	ES			04:35	38.97			-0.47
YRC	SZ	78.9	EP			04:35	32.34			0.57
WCB	SN	86.0	AML			04:35	45.72	7	0.36	
WCB	SE	86.0	AML			04:35	46.89	6	0.58	
HTR	SZ	89.5	EP			04:35	33.62			0.22
MCH	SZ	104.0	EP			04:35	35.47			-0.10
MCH	SN	104.0	ES			04:35	47.40			-0.35
MCH	SE	104.0	AML			04:35	47.68	4	0.52	
MCH	SN	104.0	AML			04:35	50.27	3	0.16	
HGH	SZ	146.0	EP			04:35	42.16			0.26

October 15 2006 Time: 11:04 45.7 UTC Magnitude: 1.3 ML
Lat: 56.684N Lon: -5.655W Depth: 5.3 km
Grid Ref: 176.17 kmE 760.65 kmN RMS: 0.20 secs
Locality: LOCH SUNART,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KAR	SZ	28.2	EP			11:04	50.90			-0.06
KAR	SZ	28.2	ES			11:04	54.79			-0.04
KSB	SZ	60.2	EP			11:04	55.88			-0.18
KPL	HZ	72.9	EP			11:04	58.19			0.23
KPL	HE	72.9	ES			11:05	06.67			-0.27
KPL	HN	72.9	AML			11:05	11.14	27	0.24	
KPL	HE	72.9	AML			11:05	11.57	29	0.28	
KAC	SZ	93.2	EP			11:05	01.63			0.49
EAB	SZ	98.2	EP			11:05	01.74			-0.19
PMS	SZ	109.0	EP			11:05	03.44			-0.18
PGB	HZ	121.0	EP			11:05	05.61			0.12
PGB	HN	121.0	ES			11:05	20.08			0.11
PGB	HN	121.0	AML			11:05	22.85	5	0.28	
PGB	HE	121.0	AML			11:05	23.95	4	0.46	
GMK	SZ	149.0	EP			11:05	09.62			0.09

October 17 2006 Time: 06:47 48.8 UTC Magnitude: 2.3 ML
Lat: 60.242N Lon: 0.344W Depth: 13.9 km
Grid Ref: 529.76 kmE 1153.10 kmN RMS: 6.00 secs
Locality: OFFSHORE SHETLAND
Velocity model: North Sea Xnear: 400.0 Xfar: 800.0
Comment: 90KM EAST OF LERWICK

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LRW	HZ	85.3	EP			06:48	01.20			-1.30
LRW	HE	85.3	ES			06:48	11.92			-0.59
LRW	HE	85.3	AML			06:48	14.36	22	0.20	
LRW	HN	85.3	AML			06:48	14.57	27	0.21	
WAL	SZ	109.0	EP			06:48	04.98			-1.11
WAL	SZ	109.0	ES			06:48	18.68			-0.05
SUE	SZ	258.0	EP			06:48	22.14			-2.83
SUE	SN	258.0	ES			06:48	47.68			-3.70
SUE	SN	258.0	AML			06:48	48.95	15	0.36	
SUE	SE	258.0	AML			06:48	54.15	12	0.32	
RUND	SZ	278.0	EP			06:48	53.76			26.25
KMY	SZ	299.0	EP			06:48	28.30			-1.76
KMY	SN	299.0	ES			06:48	59.11			-1.07
ORE	SZ	300.0	EP			06:48	30.06			-0.12
ORE	SN	300.0	ES			06:49	01.28			0.88
ORE	SN	300.0	AML			06:49	16.08	18	0.26	
ORE	SE	300.0	AML			06:49	16.40	20	0.46	

TABLE 2 : PHASE DATA

HYA	SZ	335.0	EP	06:48	32.93			-1.62
HYA	SN	335.0	ES	06:49	05.78			-2.17
HYA	SN	335.0	AML	06:49	09.36	10	0.36	
HYA	SE	335.0	AML	06:49	10.69	11	0.44	
ODD1	SZ	352.0	EP	06:48	33.47			-3.19
ODD1	SN	352.0	ES	06:49	08.61			-3.00
ODD1	SE	352.0	AML	06:49	13.52	6	0.16	
ODD1	SN	352.0	AML	06:49	15.51	7	0.28	
BLS5	SZ	355.0	EP	06:48	36.15			-0.86
BLS5	SN	355.0	ES	06:49	10.38			-1.83
BLS5	SE	355.0	AML	06:49	13.23	8	0.12	
BLS5	SN	355.0	AML	06:49	13.47	8	0.16	
MCD	SN	361.0	ES	06:49	13.83			0.18
MCD	SE	361.0	AML	06:49	16.89	10	0.26	
MCD	SN	361.0	AML	06:49	31.33	11	0.70	
RRR	SE	441.0	ES	06:49	29.88			-0.92
RRR	SE	441.0	AML	06:49	31.21	7	0.52	
RRR	SN	441.0	AML	06:49	31.56	6	0.44	
KPL	HE	474.0	ES	06:49	37.25			-0.49
KPL	HE	474.0	AML	06:49	38.86	4	0.44	
KPL	HN	474.0	AML	06:49	38.99	5	0.32	
NOA	SZ	601.0	EP	06:49	05.30			-2.31
NOA	SZ	601.0	ES	06:50	03.20			-1.95

October 24 2006 Time: 23:00 01.0 UTC Magnitude: 2.5 ML
Lat: 58.114N Lon: 0.839W Depth: 11.5 km
Grid Ref: 567.23 kmE 917.38 kmN RMS: 0.50 secs
Locality: CENTRAL NORTH SEA
Velocity model: North Sea Xnear: 400.0 Xfar: 600.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MME	SZ	244.0	EP			23:00	35.63			0.02
MCD	SZ	250.0	EP			23:00	36.64			0.23
MCD	SN	250.0	ES	2		23:01	02.50			0.22
MCD	SN	250.0	AML			23:01	05.06	28	0.11	
MCD	SE	250.0	AML			23:01	05.16	26	0.11	
LRW	HZ	253.0	EP			23:00	37.16			0.40
LRW	HE	253.0	ES			23:01	02.40			-0.49
LRW	SE	253.0	AML			23:01	04.79	13	0.16	
LRW	SN	253.0	AML			23:01	05.49	10	0.32	
ORE	SZ	274.0	EP			23:00	39.64			0.30
ORE	SN	274.0	ES			23:01	07.22			-0.12
ORE	SE	274.0	AML			23:01	08.62	36	0.17	
ORE	SN	274.0	AML			23:01	09.43	40	0.17	
WAL	SZ	277.0	EP			23:00	40.27			0.55
ESY	SZ	322.0	EP			23:00	44.94			-0.43
EDI	HZ	345.0	EP			23:00	49.14			0.92
EDI	HN	345.0	ES			23:01	23.67			0.95
EDI	HN	345.0	AML			23:01	25.55	24	0.17	
EDI	HE	345.0	AML			23:01	25.83	27	0.28	
EBL	SZ	352.0	EP			23:00	48.53			-0.53
EAU	SZ	363.0	EP			23:00	50.33			-0.09
KAC	SZ	371.0	EP			23:00	50.97			-0.47
EAB	SZ	379.0	EP			23:00	52.97			0.49
KPL	HZ	396.0	EP			23:00	54.03			-0.49
ESK	HZ	398.0	EP			23:00	54.16			-0.60
ESK	HN	398.0	ES			23:01	33.61			-0.41
KAR	SZ	421.0	EP			23:00	57.26			-0.37

October 25 2006 Time: 04:14 00.7 UTC Magnitude: 1.2 ML
Lat: 56.156N Lon: -4.249W Depth: 1.0 km
Grid Ref: 260.33 kmE 698.19 kmN RMS: 0.30 secs
Locality: THORNHILL,CENTRAL
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
EAB	SZ	6.6	IP		C	04:14	02.28			-0.15
EAB	SZ	6.6	ES	2		04:14	03.33			-0.33
PGB	HZ	41.0	IP		D	04:14	08.58			0.10
PGB	HN	41.0	AML			04:14	09.00	5	0.21	
PGB	HE	41.0	ES			04:14	14.15			0.03
PGB	HE	41.0	AML			04:14	16.94	6	0.27	
EAU	SZ	60.8	EP			04:14	11.27			-0.44
EDI	HZ	71.0	EP			04:14	13.73			0.47
EDI	HE	71.0	ES			04:14	22.38			-0.01
EDI	HE	71.0	AML	2		04:14	22.69	9	0.20	
EDI	HN	71.0	AML			04:14	22.85	10	0.22	
EBL	SZ	86.5	EP			04:14	15.45			-0.26
ESK	HZ	114.0	EP			04:14	20.02			0.05
ESK	HN	114.0	AML			04:14	36.34	29	0.31	
ESK	HE	114.0	AML			04:14	36.51	14	0.33	
KAR	SZ	129.0	EP			04:14	22.45			0.17
KSB	SZ	138.0	EP			04:14	23.83			0.23
KPL	HZ	157.0	EP			04:14	27.13			0.80
KPL	HE	157.0	ES	2		04:14	44.79			-0.22
KPL	HE	157.0	AML			04:14	46.16	8	0.33	
KPL	HN	157.0	AML			04:14	46.44	6	0.63	

October 28 2006 Time: 11:07 40.6 UTC Magnitude: 1.4 ML
Lat: 51.610N Lon: -3.942W Depth: 0.0 km
Grid Ref: 265.54 kmE 191.97 kmN RMS: 0.40 secs
Locality: EXPL-SWANSEA BAY
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT SWANSEA Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH	SZ	78.1	EP			11:07	54.33			-0.07
CR2	SZ	182.0	EP			11:08	10.19			0.37
CCA	SZ	182.0	EP			11:08	10.42			0.58
CSA	SZ	155.0	EP			11:08	06.71			0.66
SBD	SZ	152.0	EP			11:08	05.64			0.00
SSW	SZ	150.0	EP			11:08	06.55			1.22
DYA	EZ	131.0	EP			11:08	02.57			0.01
HLM	SZ	125.0	EP			11:08	01.47			-0.18
HGH	SZ	78.7	EP			11:07	54.71			0.21
HTL	HE	78.2	AML			11:08	07.94	14	0.14	
HTL	EZ	78.2	EP			11:07	54.43			0.03
HTL	HN	78.2	AML			11:07	56.69	15	0.20	
HTL	HZ	78.2	EP			11:07	54.49			0.09
MCH	SN	78.1	AML			11:08	06.55	25	0.16	
MCH	HN	78.1	AML			11:08	06.52	12	0.16	
MCH	HE	78.1	AML			11:08	04.70	10	0.20	
MCH	SE	78.1	AML			11:07	55.63	27	0.36	
MCH	HZ	78.1	EP			11:07	54.24			-0.16
HTR	SZ	69.8	EP			11:07	53.08			-0.06
HEX	SZ	61.2	EP			11:07	51.37			-0.42

November 5 2006 Time: 22:35 39.7 UTC Magnitude: 2.2 ML
Lat: 52.414N Lon: -2.622W Depth: 3.3 km
Grid Ref: 357.70 kmE 279.78 kmN RMS: 0.30 secs
Locality: LUDLOW,SHROPSHIRE
Velocity model: Mid Wales Xnear: 80.0 Xfar: 160.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HLM	SZ	21.1	IP		D	22:35	43.99			0.38
MCH	HZ	53.0	IP		C	22:35	48.66			-0.20
MCH	HN	53.0	ES			22:35	55.28			-0.16
MCH	HN	53.0	AML			22:35	55.76	138	0.19	
MCH	HE	53.0	AML			22:35	55.83	116	0.11	
HTR	SZ	57.8	IP		C	22:35	49.55			-0.11
SBD	SZ	69.6	EP			22:35	51.75			0.12
SSW	SZ	72.5	IP		D	22:35	52.53			0.44
KWE	SZ	85.3	IP		C	22:35	53.74			-0.47
HGH	SZ	87.3	EP		C	22:35	54.43			-0.09
SWN	SZ	115.0	EP			22:35	59.32			0.21
SWN	SE	115.0	ES	2		22:36	13.77			0.71
SWN	SE	115.0	AML			22:36	17.05	129	0.39	
SWN	SN	115.0	AML			22:36	17.62	92	0.26	
KBI	SZ	119.0	EP			22:35	59.38			-0.35
WPM	SZ	128.0	EP			22:36	01.01			-0.02
YRE	SZ	137.0	EP			22:36	02.48			0.02
SKP	SZ	146.0	EP			22:36	03.75			-0.04
WLF	SZ	154.0	EP			22:36	04.83			-0.16
WCB	SZ	168.0	EP			22:36	06.86			-0.17
WCB	SN	168.0	ES	2		22:36	25.92			-0.77
WCB	SE	168.0	AML			22:36	27.80	20	0.32	
WCB	SN	168.0	AML			22:36	27.87	39	0.15	
HEX	SZ	171.0	IP		D	22:36	07.10			-0.25
HTL	HZ	204.0	EP			22:36	10.82			-0.65
HTL	HN	204.0	ES	2		22:36	34.48			0.16
HTL	HE	204.0	AML			22:36	36.65	15	0.40	
HTL	HN	204.0	AML			22:36	37.16	14	0.33	

November 28 2006 Time: 23:30 40.2 UTC Magnitude: 1.0 ML
Lat: 52.868N Lon: -3.829W Depth: 9.3 km
Grid Ref: 276.90 kmE 331.66 kmN RMS: 0.20 secs
Locality: TRAWSFYNYDD,GWYNEDD
Velocity model: Lleyn Xnear: 80.0 Xfar: 150.0
Comment: 5KM SE TRAWSFYNYDD

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
SBD	SZ	38.6	EP			23:30	46.73			-0.16
YRE	SZ	42.1	EP			23:30	47.47			0.04
WPM	SZ	43.7	EP			23:30	47.82			0.11
WLF	SZ	60.4	EP			23:30	50.19			-0.22
YRC	SZ	65.7	EP			23:30	51.00			-0.28
WCB	SZ	74.4	EP			23:30	53.14			0.43
WCB	SN	74.4	ES	2		23:31	01.13			-0.11
WCB	SE	74.4	AML			23:31	01.54	8	0.24	
WCB	SN	74.4	AML			23:31	02.77	6	0.42	
HLM	SZ	75.0	EP			23:30	52.97			0.14
HTR	SZ	95.7	EP			23:30	56.00			-0.03
MCH	HN	112.0	ES	2		23:31	11.10			0.07
MCH	HE	112.0	AML			23:31	11.60	4	0.26	
MCH	HN	112.0	AML			23:31	11.64	4	0.28	
MCH	HZ	112.0	EP			23:30	58.46			-0.08

November 29 2006 Time: 05:45 02.0 UTC Magnitude: 1.3 ML
Lat: 53.025N Lon: -3.311W Depth: 13.3 km
Grid Ref: 312.08 kmE 348.36 kmN RMS: 0.10 secs
Locality: RUTHIN,CLWYD
Velocity model: Lleyn Xnear: 80.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
SBD	SZ	13.8	IP		C	05:45	05.33			0.01
SBD	SZ	13.8	ES	3		05:45	07.41			-0.14
HLM	SZ	63.4	IP		D	05:45	12.72			0.01
HLM	SZ	63.4	ES	3		05:45	19.72			-0.25
HTR	SZ	105.0	EP			05:45	19.11			-0.04
MCH	HZ	116.0	EP			05:45	20.83			0.01
MCH	HN	116.0	ES	2		05:45	33.79			0.19
MCH	HE	116.0	AML			05:45	36.77	6	0.38	
MCH	HN	116.0	AML			05:45	36.80	7	0.16	

November 30 2006 Time: 21:51 09.1 UTC Magnitude: 1.6 ML
Lat: 51.411N Lon: -4.578W Depth: 6.2 km
Grid Ref: 220.74 kmE 171.21 kmN RMS: 0.20 secs
Locality: BRISTOL CHANNEL
Velocity model: Lownet Xnear: 70.0 Xfar: 140.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HTL	HZ	46.8	IP		D	21:51	17.35			0.00
HTL	HE	46.8	ES	2		21:51	23.26			-0.08
HTL	HE	46.8	AML			21:51	25.04	27	0.30	
HTL	HN	46.8	AML			21:51	25.95	22	0.32	
HEX	SZ	66.3	EP	2		21:51	20.22			-0.19
HTR	SZ	117.0	EP			21:51	28.24			-0.05
DYA	EZ	118.0	EP			21:51	28.73			0.35
DYA	EZ	118.0	ES	2		21:51	43.14			0.72
DYA	EN	118.0	AML			21:51	45.40	25	0.22	
DYA	EE	118.0	AML			21:51	47.29	31	0.16	
CSA	SZ	120.0	EP			21:51	28.67			0.00
HGH	SZ	126.0	EP			21:51	30.19			0.60
MCH	HZ	127.0	EP			21:51	29.74			-0.09
MCH	HE	127.0	ES	2		21:51	44.80			-0.12
MCH	HN	127.0	AML			21:51	45.80	29	0.58	
MCH	HE	127.0	AML			21:51	47.84	10	0.25	
HLM	SZ	170.0	EP			21:51	36.39			0.48

December 9 2006 Time: 11:22 04.9 UTC Magnitude: 0.0 ML
Lat: 49.115N Lon: -2.146W Depth: 7.6 km

TABLE 2 : PHASE DATA

Grid Ref: 389.35 kmE -87.21 kmN RMS: 0.70 secs
Locality: JERSEY,CHANNEL ISLANDS
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
JSA	SZ	8.3	IP		D	11:22	07.50			-0.34
JSA	SZ	8.3	ES	1		11:22	09.93			-0.08
JSA	SZ	8.3	AML			11:22	10.23	6	0.06	
JRS	SZ	9.5	EP			11:22	07.48			-0.47
JRS	SE	9.5	ES			11:22	09.89			-0.32
JRS	SE	9.5	EP	1		11:22	09.89			1.94
JRS	SZ	9.5	AML			11:22	10.03	12	0.07	
JVM	SZ	12.2	IP		D	11:22	08.04			-0.21
JVM	SZ	12.2	ES			11:22	11.00			0.28
JVM	SZ	12.2	AML			11:22	11.06	5	0.08	

December 16 2006 Time: 16:08 52.4 UTC Magnitude: 2.1 ML
Lat: 53.630N Lon: -2.361W Depth: 9.8 km
Grid Ref: 376.13 kmE 414.92 kmN RMS: 0.50 secs
Locality: BOLTON,GTR MANCHESTER
Velocity model: Lownet Xnear: 150.0 Xfar: 300.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LHO	SZ	34.8	IP		C	16:08	58.43			-0.28
LDU	SZ	56.7	EP			16:09	01.72			-0.30
HPK	SN	60.7	EP			16:09	02.45			-0.22
HPK	SN	60.7	ES	2		16:09	09.49			-0.70
KBI	SZ	69.4	EP		D	16:09	03.82			-0.20
KWE	SZ	76.6	IP		D	16:09	05.36			0.21
LRN	SZ	94.9	EP		D	16:09	08.23			0.25
CDU	SZ	95.7	EP			16:09	08.62			0.50
SBD	SZ	100.0	IP		C	16:09	09.17			0.29
WPM	SZ	111.0	EP			16:09	10.70			0.28
CKE	SZ	117.0	EP			16:09	11.56			0.20
XDE	SZ	122.0	EP			16:09	12.11			0.01
HLM	SZ	129.0	EP			16:09	13.33			0.31
LWH	SZ	136.0	EP			16:09	13.97			-0.03
XAL	SZ	137.0	EP			16:09	14.26			-0.02
WCB	SZ	148.0	EP		C	16:09	15.21			-0.49
WCB	SE	148.0	ES	3		16:09	31.86			-0.87
WCB	SE	148.0	AML			16:09	33.21	25	0.20	
WCB	SN	148.0	AML			16:09	34.85	26	0.16	
YRC	SZ	153.0	EP			16:09	16.13			-0.31
YRE	SZ	155.0	EP			16:09	16.38			-0.43
WIM	SZ	163.0	EP			16:09	16.98			-0.89
BBH	SZ	171.0	EP			16:09	19.83			0.90
GCD	SZ	172.0	EP			16:09	19.21			0.26
BHH	SZ	172.0	EP			16:09	20.12			1.10
HTR	SZ	183.0	EP			16:09	20.94			0.50
MCH	HZ	187.0	EP			16:09	20.97			0.11
MCH	HE	187.0	ES	3		16:09	41.92			0.26
MCH	HN	187.0	AML			16:09	44.76	33	0.18	
MCH	HE	187.0	AML			16:09	46.25	38	0.18	
ESK	HZ	196.0	EP			16:09	21.13			-0.83
ESK	HE	196.0	AML			16:09	51.04	22	0.34	
ESK	HN	196.0	AML			16:09	52.99	16	0.38	
GAL	HZ	206.0	EP			16:09	22.39			-0.84
GAL	HE	206.0	ES	3		16:09	43.14			-2.62
GAL	HE	206.0	AML			16:09	50.77	14	0.26	
GAL	HN	206.0	AML			16:09	54.33	20	0.34	
HGH	SZ	224.0	EP			16:09	25.82			0.34
GMM	SZ	245.0	EP			16:09	26.96			-1.19
PGB	HZ	279.0	EP			16:09	32.09			-0.25
GMK	SZ	283.0	EP			16:09	31.99			-0.94
GCL	SZ	293.0	EP			16:09	33.58			-0.58

December 19 2006 Time: 02:20 55.0 UTC Magnitude: 1.8 ML
Lat: 50.346N Lon: -4.512W Depth: 8.0 km
Grid Ref: 221.30 kmE 52.65 kmN RMS: 0.30 secs
Locality: LOOE,CORNWALL
Velocity model: Lownet Xnear: 50.0 Xfar: 300.0
Comment: FELT HERODSFOOT... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
DYA	EN	42.5	AML			02:21	07.87	157	0.10	
CR2	SZ	50.9	IP		C	02:21	03.83			0.11
CSA	SZ	27.0	IP		D	02:20	60.00			-0.02
DYA	EZ	42.5	IP		C	02:21	02.52			0.07
DYA	EE	42.5	ES	2		02:21	07.50			-0.41
DYA	EE	42.5	AML			02:21	09.56	87	0.07	
CCA	SZ	54.0	IP		C	02:21	04.32			0.10
HTL	HZ	72.1	IP		C	02:21	07.28			0.28
HEX	SZ	94.5	EP			02:21	10.88			0.38
CR2	SN	50.9	ES			02:21	09.51			-0.61
HTL	HE	72.1	ES			02:21	15.51			-0.28
HTL	HN	72.1	AML			02:21	16.27	53	0.17	
HTL	HE	72.1	AML			02:21	16.71	38	0.13	
MCH	HZ	212.0	EP			02:21	26.65			-0.13
MCH	HE	212.0	AML			02:21	54.19	6	0.21	
MCH	HN	212.0	AML			02:21	56.27	6	0.27	
WOL	BN		ESg			02:22	05.62			
WOL	BN		AML			02:22	08.62	9	0.67	
WOL	BE		AML			02:22	11.46	11	0.43	
SWN	HN		ESg			02:21	59.45			
SWN	HN		AML			02:22	04.98	16	0.62	
SWN	HE		AML			02:22	04.64	15	0.75	

December 23 2006 Time: 01:19 29.6 UTC Magnitude: 0.8 ML
Lat: 52.784N Lon: -4.476W Depth: 12.6 km
Grid Ref: 233.04 kmE 323.62 kmN RMS: 0.00 secs
Locality: PWLLHELI,GWYNEDD
Velocity model: Lleyn Xnear: 80.0 Xfar: 200.0
Comment: 12KM OFFSHORE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
YRE	SZ	22.2	EP			01:19	33.91			-0.01
YRE	SZ	22.2	ES	3		01:19	36.91			0.06
YRC	SZ	52.4	ES	3		01:19	44.64			-0.01
WPM	SZ	65.2	EP			01:19	40.57			0.00
WCB	SZ	66.3	EP			01:19	40.72			0.01
WCB	SE	66.3	ES	3		01:19	48.22			-0.05
WCB	SE	66.3	AML			01:19	49.94	6	0.08	
WCB	SN	66.3	AML			01:19	50.07	6	0.20	

December 23 2006 Time: 12:19 32.2 UTC Magnitude: 1.5 ML
Lat: 52.785N Lon: -2.256W Depth: 11.8 km
Grid Ref: 382.74 kmE 320.89 kmN RMS: 0.10 secs
Locality: NEWPORT,SHROPSHIRE
Velocity model: Mid Wales Xnear: 80.0 Xfar: 200.0
Comment: 7KM EAST OF NEWPORT

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KWE	SZ	38.0	IP		C	12:19	39.01			-0.01
HLM	SZ	51.6	EP			12:19	41.26			0.03
HLM	SZ	51.6	ES	3		12:19	47.64			-0.07
SBD	SZ	68.8	EP			12:19	44.02			-0.02
MCH	SZ	101.0	EP			12:19	48.74			-0.19
MCH	SN	101.0	ES	2		12:20	00.94			-0.01
MCH	SN	101.0	AML			12:20	01.72	16	0.20	
MCH	SE	101.0	AML			12:20	02.50	12	0.24	
HTR	SZ	104.0	EP			12:19	49.46			0.02
HGH	SZ	133.0	EP			12:19	54.00			0.28
YRE	SZ	148.0	EP			12:19	56.07			0.16

December 26 2006 Time: 10:40 04.1 UTC Magnitude: 3.5 ML
Lat: 55.086N Lon: -3.636W Depth: 7.4 km
Grid Ref: 295.59 kmE 578.07 kmN RMS: 0.40 secs
Locality: DUMFRIES, D & G
Velocity model: Lownet Xnear: 100.0 Xfar: 300.0
Comment: FELT DUMFRIES... Intensity: 5

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
BWH	SZ	10.0	IP		C	10:40	06.23			-0.28
BCC	AZ	27.7	EP			10:40	09.14			-0.08
BCC	AN	27.7	ES	3		10:40	12.46			-0.54
GCD	SZ	31.6	IP		C	10:40	09.41			-0.42
ESK	HZ	37.5	IP		C	10:40	10.14			-0.63
ESK	HE	37.5	ES	1		10:40	14.53	3985	0.25	-1.15
ESK	HN	37.5	AML			10:40	15.60	3471	0.33	
BBO	SZ	46.2	IP		D	10:40	12.48			0.37
CKE	SZ	65.1	IP		D	10:40	15.28			0.23
XDE	SZ	65.3	IP		C	10:40	15.23			0.15
GAL	HZ	73.1	EP		C	10:40	16.04			-0.21
GAL	HN	73.1	ES			10:40	24.64			-0.52
GAL	HE	73.1	AML			10:40	26.39	1067	0.26	
GAL	HN	73.1	AML			10:40	29.05	3483	0.47	
EBL	SZ	85.1	EP		C	10:40	18.20			0.02
EAU	SZ	85.4	IP		C	10:40	18.61			0.40
XAL	SZ	94.4	IP		D	10:40	19.68			0.06
PGB	HZ	96.9	IP		D	10:40	20.33			0.36
PGB	HE	96.9	ES	1		10:40	31.80			0.21
PGB	HN	96.9	ES	1		10:40	31.80			
PGB	HE	96.9	AML			10:40	34.82	1861	0.31	
PGB	HN	96.9	AML			10:40	34.83	2112	0.35	
EDI	HZ	97.4	IP		C	10:40	20.43			0.40
EDI	HE	97.4	ES	2		10:40	31.46			-0.23
EDI	HE	97.4	AML			10:40	35.61	4670	0.39	
EDI	HN	97.4	AML			10:40	35.67	2575	0.55	
XSO	SZ	98.9	IP		C	10:40	19.99			-0.35
GIM	SZ	103.0	IP		C	10:40	21.22			0.23
GIM	SE	103.0	ES	1		10:40	33.84			0.48
ESY	SZ	113.0	EP		C	10:40	22.42			-0.04
WIM	SZ	124.0	EP			10:40	24.30			0.08
TOA	AZ	125.0	EP			10:40	24.96			0.64
GMK	SZ	128.0	IP		D	10:40	25.03			0.32
GMK	SZ	128.0	ES	2		10:40	39.71			-0.08
EBH	SZ	130.0	EP		C	10:40	25.44			0.45
EAB	SZ	130.0	EP		D	10:40	25.41			0.31
ELO	SZ	154.0	EP		C	10:40	28.60			0.06
GCL	SZ	159.0	EP			10:40	28.79			-0.39
EDU	SZ	167.0	EP			10:40	30.12			-0.27
GMM	SZ	177.0	EP			10:40	30.93			-0.57
LDU	SZ	196.0	EP			10:40	34.89			0.95
LDU	SZ	196.0	ES	4		10:40	58.62			2.87
LDU	SZ	196.0	AML			10:41	05.49	597	0.41	
WCB	SZ	199.0	EP			10:40	33.64			-0.66
LHO	SZ	207.0	EP		C	10:40	35.12			-0.23
YRC	SZ	213.0	EP			10:40	35.43			-0.61
YRE	SZ	240.0	EP			10:40	38.90			-0.51
KAR	SZ	246.0	EP			10:40	39.90			-0.23
KPL	HZ	280.0	EP			10:40	44.44			0.02
KPL	HE	280.0	ES	4		10:41	13.09			-0.81
KPL	HE	280.0	AML			10:41	22.17	347	0.64	
KPL	HN	280.0	AML			10:41	28.97	274	0.55	
KAC	SZ	288.0	EP			10:40	45.01			-0.38
HLM	SZ	290.0	EP			10:40	45.35			-0.38
HTR	SZ	336.0	EP			10:40	51.51			0.11
MCH	SZ	346.0	EP			10:40	52.68			-0.04
MCH	HZ	346.0	EP			10:40	52.80			0.08
MCH	HN	346.0	AML			10:41	43.81	62	0.24	
MCH	HE	346.0	AML			10:41	46.03	60	0.57	
WOL	BZ	450.0	EP			10:41	05.74			0.11
HTL	HZ	459.0	EP			10:41	06.75			0.00
LRW	HZ	581.0	EP			10:41	19.52			-2.54

December 30 2006 Time: 09:15 43.0 UTC Magnitude: 3.1 ML
Lat: 53.666N Lon: 0.998W Depth: 8.0 km
Grid Ref: 598.04 kmE 423.04 kmN RMS: 0.30 secs
Locality: SOUTHERN NORTH SEA
Velocity model: North Sea Xnear: 400.0 Xfar: 600.0
Comment: 75KM EAST OF HULL

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
ABA	SZ	87.1	EP			09:15	57.19			0.07
ABA	SZ	87.1	ES	3		09:16	07.57			0.15
AWI	SZ	97.5	EP			09:15	58.61			-0.19
AWI	SZ	97.5	ES	3		09:16	10.04			-0.28
AEU	SZ	117.0	EP			09:16	01.69			-0.17
AEU	SE	117.0	ES	2		09:16	16.08			0.47
AEU	SN	117.0	AML			09:16	19.27	366	0.24	

TABLE 2 : PHASE DATA

AEU	SE	117.0	AML		09:16	19.80	524	0.22	
LWH	SZ	132.0	EP		09:16	04.56			0.39
KBI	SZ	174.0	EP		09:16	09.11			-0.24
LHO	SZ	189.0	EP		09:16	10.70			-0.59
KWE	SZ	202.0	EP		09:16	12.93			0.03
SKP	SZ	248.0	EP		09:16	19.14			0.54
SSW	SZ	269.0	EP		09:16	21.00			-0.22
WOL	BZ	302.0	EP	4	09:16	27.62			2.35
WOL	BN	302.0	AML		09:17	15.32	51	0.55	
WOL	BE	302.0	AML		09:17	18.32	92	0.50	
SWN	HE	305.0	AML		09:17	15.79	105	0.48	
SWN	HN	305.0	AML		09:17	16.88	112	0.40	
MCH	HZ	327.0	EP		09:16	28.63			0.26
MCH	HE	327.0	AML		09:17	17.84	39	0.46	
MCH	HN	327.0	AML		09:17	19.59	45	0.42	

December 30 2006 Time: 16:22 13.2 UTC Magnitude: 1.7 ML
Lat: 55.079N Lon: -3.622W Depth: 5.6 km
Grid Ref: 296.46 kmE 577.27 kmN RMS: 0.30 secs
Locality: DUMFRIES,D & G
Velocity model: Lownet Xnear: 100.0 Xfar: 300.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
BWH	SZ	11.0	EP			16:22	15.46			0.08
BHH	SZ	25.8	IP		C	16:22	17.94			0.06
BHH	SE	25.8	ES	2		16:22	21.18			-0.10
GCD	SZ	31.5	EP			16:22	18.53			-0.32
ESK	HZ	37.4	IP		C	16:22	19.28			-0.58
ESK	HN	37.4	ES	3		16:22	23.81			-0.89
ESK	HE	37.4	AML			16:22	24.62	79	0.18	
ESK	HN	37.4	AML			16:22	24.72	56	0.34	
CKE	SZ	64.0	EP			16:22	24.43			0.28
GAL	SZ	73.7	EP			16:22	25.23			-0.39
GAL	HZ	73.7	EP			16:22	25.25			
GAL	HN	73.7	ES	3		16:22	33.81			-0.86
GAL	HN	73.7	AML			16:22	34.94	35	0.50	
GAL	HE	73.7	AML			16:22	35.31	21	0.46	
EBL	SZ	85.4	EP			16:22	27.38			-0.12
EAU	SZ	86.0	EP			16:22	27.80			0.22
XAL	SZ	93.3	EP			16:22	28.82			0.09
EDI	HZ	97.9	EP			16:22	29.56			0.18
EDI	HN	97.9	ES	3		16:22	41.06			-0.11
EDI	HN	97.9	AML			16:22	44.50	37	0.36	
EDI	HE	97.9	AML			16:22	44.53	59	0.42	
XSO	SZ	98.5	EP			16:22	29.34			-0.21
GIM	SZ	103.0	EP			16:22	30.49			0.25
ESY	SZ	113.0	EP			16:22	32.03			0.27
GMK	SZ	129.0	EP			16:22	34.35			0.15
EBH	SZ	130.0	EP			16:22	34.50			0.05
EAB	SZ	132.0	EP			16:22	34.93			0.31
GCL	SZ	160.0	EP			16:22	38.27			-0.42
GMM	SZ	177.0	EP			16:22	41.62			0.60

TABLE 3

GEOGRAPHIC COORDINATES OF SEISMOGRAPH STATIONS, 2006

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Comp
ABA	BACONSTHORPE	52.8884	1.1453	611.58	337.00	74	1
AEA	EAST ANGLIA UNIV	52.6208	1.2403	619.30	307.53	45	3M
AEU	EAST ANGLIA	52.6202	1.2347	618.93	307.45	28	SM
APA	PACKWAY	52.3006	1.4782	637.12	272.68	58	1
AWH	WHINBURGH	52.6297	0.9507	599.67	307.68	64	1R
AWI	WITTON	52.8319	1.4471	632.17	331.65	46	1
BBH	BRUNTSHEIL	55.1333	-2.9299	340.72	582.50	216	1
BBO	BOTHEL	54.7367	-3.2464	319.76	538.69	209	3
BCC	CHAPELCROSS	55.0153	-3.2201	321.99	569.66	138	1SM
BCM	CHAPELCROSS MIC	55.0151	-3.2212	321.92	569.64	78	M
BDL	DOBCROSS HALL	54.8030	-2.9385	339.68	545.76	157	1
BHH	HOWATS HILL	55.0931	-3.2181	322.27	578.31	216	3
BNA	NEW ABBEY	54.9658	-3.6242	296.03	564.68	28	1
BTA	TALKIN	54.9057	-2.6844	356.12	557.00	279	3
BWH	WARDLAW	55.1758	-3.6549	294.62	588.09	269	1
CBW	BUDOCK WATER	50.1482	-5.1144	177.53	32.29	94	1
CCA	CARNMENELLIS	50.1866	-5.2277	169.62	36.90	210	1
CCO	CONSTANTINE	50.1357	-5.1957	171.66	31.14	168	1
CDU	DUNNERDALE	54.3362	-3.1952	322.30	494.08	355	1
CGH	GOONHILLY	50.0507	-5.1649	173.46	21.60	97	1
CGW	GWEEK	50.1006	-5.2228	169.56	27.32	9	1
CKE	KESWICK	54.5877	-3.1059	328.54	521.96	304	1
CMA	MANACCAN	50.0821	-5.1274	176.29	24.98	42	1
CPZ	PENZANCE	50.1566	-5.5828	144.12	34.72	199	1R
CR2	ROSEMANOWES 2	50.1667	-5.1687	173.74	34.51	143	3
CRQ	ROSEMANOWES	50.1672	-5.1726	173.46	34.57	156	SM
CSA	ST AUSTELL	50.3527	-4.8919	194.30	54.38	112	1
CSF	SCAFELL	54.4478	-3.2430	319.41	506.55	540	1
CSM	SELLAFIELD MIC	54.4183	-3.4913	303.24	503.58	50	M
CST	STITHIANS	50.1952	-5.1635	174.24	37.66	141	1
CWF	CHARNWOOD FST	52.7385	-1.3076	446.74	315.91	203	3BB
DCO	COMBE FARM	50.3201	-3.8721	266.74	48.43	117	1R
DYA	YADSWORTHY	50.4353	-3.9310	262.88	61.34	292	3BB
EAB	ABERFOYLE	56.1887	-4.3373	254.97	702.02	279	1R
EAU	AUCHINOON	55.8454	-3.4474	309.38	662.30	359	1R
EBH	BLACK HILL	56.2476	-3.5084	306.54	707.13	375	1R
EBL	BROAD LAW	55.7723	-3.0445	334.48	653.71	436	1R
ECK	CAULDKAINE HILL	55.1810	-3.1292	328.10	588.00	351	1R
EDI	EDINBURGH	55.9233	-3.1875	325.80	670.66	125	3BB
EDR	DRUMTOCHTY	56.9190	-2.5393	367.17	780.97	401	1R
EDU	DUNDEE	56.5477	-3.0110	337.85	739.97	421	1R
ELO	LOGIEALMOND	56.4703	-3.7112	294.59	732.21	523	1R
ESK	ESKDALEMUIR	55.3165	-3.2052	323.52	603.16	261	3BB
ESY	STONEYPATH	55.9175	-2.6141	361.62	669.55	337	1R
FHV	HALDARSVIK	62.2597	-7.0984	135.46	1385.95	380	1R
FSD	SUDUROY	61.5701	-6.7884	145.86	1308.06	480	1R
FSV	SVINOY	62.2598	-6.3550	173.99	1383.14	430	1R
FTO	TORSHAVN	62.0199	-6.8274	147.51	1358.21	325	3R
FVA	VAGAR	62.0575	-7.3520	120.46	1364.55	430	1R
GAL	GALLOWAY	54.8664	-4.7114	226.02	555.78	117	3BB
GCD	CASTLE DOUGLAS	54.8630	-3.9403	275.48	553.76	184	1R
GCL	CUSHENDALL	55.0783	-6.1264	136.66	583.77	278	1R
GIM	ISLE OF MAN (North)	54.2923	-4.4672	239.44	491.35	346	3R
GMK	MULL OF KINTYRE	55.3458	-5.5934	172.19	611.64	164	1R
GMM	MTNS OF MOURNE	54.2377	-5.9498	142.66	489.67	155	1R
HAE	ALDERS END	52.0368	-2.5434	362.73	237.79	260	1R
HBL2	BONNYLANDS	52.0508	-3.0384	328.80	239.71	437	SM
HCG	CRAIG GOCH	52.3231	-3.6570	287.08	270.78	533	1R
HEX	EXMOOR	51.0664	-3.8026	273.71	131.28	230	1R

TABLE 3

GEOGRAPHIC COORDINATES OF SEISMOGRAPH STATIONS, 2006

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Comp
HGH	GRAY HILL	51.6379	-2.8057	344.25	193.59	223	1R
HLM	LONG MYND	52.5184	-2.8807	340.25	291.57	429	1
HPE	PEMBROKE	51.9372	-4.7746	209.29	230.21	349	1R
HPK	HAVERAH PARK	53.9581	-1.6241	424.66	451.42	233	3R
HSA	SWANSEA	51.7500	-4.1532	251.38	207.94	293	1R
HTL	HARTLAND	50.9943	-4.4849	225.64	124.66	86	3BB
HTR	TREWERN HILL	52.0785	-3.2679	313.12	243.04	337	1R
JDC	DAM (CREST)	49.1947	-2.0469			39	SM
JDG	DAM (GALLERY)	49.1947	-2.0469			7	SM
JRS	MAISON ST LOUIS	49.1922	-2.0922			56	3RLG
JSA	ST AUBINS	49.1878	-2.1717			39	1R
JVM	VALLE D.L.MARE	49.2169	-2.2067			64	1R
KAC	ACHNASHELLACH	57.4989	-5.2988	202.36	850.19	206	1R
KAR	ARISAIG	56.9188	-5.8290	166.98	787.34	186	1
KBI	BIRLEY GRANGE	53.2543	-1.5279	431.49	373.17	272	1
KEY	KEYWORTH	52.8779	-1.0757	462.20	331.59	59	LG
KEY2	KEYWORTH (SM)	52.8790	-1.0770	462.13	331.73	76	SM
KNR	NEVIS RANGE	56.8219	-4.9714	218.68	773.97	1147	1R
KPL	PLOCKTON	57.3391	-5.6527	180.21	833.50	13	3BB
KSB	SHIEL BRIDGE	57.2099	-5.4214	193.40	818.40	417	1R
KSK	SCOVAL	57.4659	-6.7002	118.21	851.46	265	1R
KSY	SYSTON	52.9642	-0.5872	494.88	341.73	121	1R
KTG	TILBROOK GRNGE	52.3264	-0.4019	508.90	271.06	83	1
KUF	UFFORD	52.6170	-0.3907	508.94	303.39	38	1R
KWE	WEAVER FARM	53.0164	-1.8412	410.65	346.61	328	1R
LCP	CASSOP	54.7370	-1.4744	433.84	538.14	185	1R
LDU	LEEDS	53.8058	-1.5540	429.37	434.51	74	MLGSM
LHO	HOLMEFIRTH	53.5453	-1.8548	409.62	405.44	462	1R
LMI	MILLOM	54.2206	-3.3070	314.79	481.35	129	3R
LMK	MARKET RASEN	53.4569	-0.3260	511.14	396.90	146	1R
LRN	RICHMOND	54.4165	-1.8007	412.93	502.37	313	1R
LRW	LERWICK	60.1360	-1.1779	445.66	1139.27	98	3BB
LWH	WHINNY NAB	54.3338	-0.6717	486.36	493.97	277	1R
MCD	COLEBURN DISTIL	57.5828	-3.2541	325.02	855.42	293	3RMLGSM
MCH	MICHAELCHURCH	51.9974	-2.9983	331.47	233.74	219	3BB
MDO	DOCHFOUR	57.4409	-4.3633	258.17	841.39	415	1R
MFI	FISHRIE	57.6119	-2.2956	382.34	858.00	232	1R
MLA	LATHERON	58.3055	-3.3627	320.15	935.98	188	1
MME	MEIKLE CAIRN	57.3149	-2.9647	341.90	825.32	475	1
MVH	ACHVAICH	57.9250	-4.1825	270.75	894.90	185	1
OBR	BRABSTER	58.6142	-3.1626	332.47	970.13	89	1R
ODR	DOUNREAY	58.5822	-3.7256	299.68	967.27	100	SM
OHO	HOY	58.8322	-3.2465	328.05	994.48	172	1R
ORE	REAY	58.5480	-3.7622	297.45	963.52	100	3RMLG
OST	STRONSAY	59.0860	-2.5516	368.39	1022.20	21	1R
OTO	TONGUE	58.4953	-4.3939	260.49	958.79	338	1R
OWE	WESTRAY	59.3180	-3.0289	341.44	1048.36	87	1R
PCA	CARROT	55.7007	-4.2550	258.30	647.55	302	1
PCO	CORRIE	55.9880	-4.1002	269.00	679.21	267	1
PGB	GLENIFFERBRAES	55.8115	-4.4837	244.38	660.37	199	3BB
PMS	MUIRSHIEL	55.8459	-4.7452	228.15	664.82	351	1
POB	OBSERVATORY	55.8458	-44299	247.88	664.06	34	MLG
RCR	CAPE WRATH	58.6245	-4.9987	225.90	974.58	100	1R
REB	EISG-BRACHAIDH	58.1194	-5.2802	206.82	919.16	100	1R
RFO	FORSNAVAL	58.2133	-7.0052	106.10	935.83	195	1R
RRH	RHENIGIDALE	57.9197	-6.6881	122.43	901.86	103	1R
RRR	RUBHA REIDH	57.8577	-5.8067	174.19	891.68	61	3RMLGSM
RSC	SCOURIE	58.3485	-5.1683	214.61	944.33	60	1R
RTO	TOLSTA	58.3778	-6.2092	153.95	950.93	74	1R

TABLE 3

GEOGRAPHIC COORDINATES OF SEISMOGRAPH STATIONS, 2006

Code	Name	Lat	Lon	KmE (km)	KmN (km)	Ht (m)	Comp
SAN	SANDWICK	60.0179	-1.2392	442.41	1126.08	150	1
SBD	BRYN DU	52.9055	-3.2585	315.37	335.01	489	1
SFH	HASELMERE	51.0604	-0.6912	491.71	129.88	260	1
SHSD	LERWICK	60.1360	-1.1779	445.66	1139.27	98	BBSM
SIW	ISLE OF WHITE	50.6711	-1.3747	444.18	85.97	162	1
SKP	KOPHILL	51.7218	-0.8096	482.22	203.29	212	1
SMD	MENDIPS	51.3083	-2.7170	350.03	156.88	310	1
SSP	STONEY POUND	52.4177	-3.1119	324.39	280.59	428	3
SSW	STOW-ON-WOLD	51.9667	-1.8499	410.31	229.86	291	1
SWK	WARMINSTER	51.1483	-2.2471	382.72	138.87	266	1
SWN	SWINDON	51.5137	-1.8007	413.83	179.49	192	3BB
TBW	BRENTWOOD	51.6549	0.2913	558.48	197.66	89	1R
TCR	COLCHESTER	51.8347	0.9212	601.24	219.20	45	1R
TEB	EASTBOURNE	50.8187	0.1457	551.13	104.39	68	1R
TFO	FOLKESTONE	51.1135	1.1409	619.81	139.66	202	3MLGSM
TSA	SEVENOAKS	51.2426	0.1561	550.48	151.53	177	1
WAL	WALLS	60.2564	-1.6173	421.18	1152.46	167	1
WCB	CHURCH BAY	53.3782	-4.5467	230.62	389.87	139	3MSM
WFB	FAIRBOURNE	52.6831	-4.0383	262.23	311.48	316	1R
WIM	ISLE OF MAN(South)	54.1475	-4.6738	225.39	475.73	386	1R
WLF	LLYNFAES	53.2894	-4.3966	240.27	379.65	58	1
WME	MYNDD EILIAN	53.3969	-4.3032	246.88	391.40	129	1R
WPM	PENMAENMAWR	53.2581	-3.9048	272.95	375.18	353	1R
XAL	ALLENDALE	54.8617	-2.2147	386.22	551.91	458	1R
XDE	DENT	54.5056	-3.4902	303.52	513.29	301	1R
XSO	SOURHOPE	55.4924	-2.2510	384.14	622.10	516	1R
YEL	YELL	60.5509	-1.0830	450.29	1185.55	203	1
YLL	LLANBERIS	53.1402	-4.1704	254.84	362.57	159	1R
YRC	RHOSCOLYN	53.2508	-4.5753	228.21	375.77	22	1R
YRE	YR EIFL	52.9811	-4.4254	237.19	345.43	193	1R
YRH	RHIW	52.8336	-4.6288	222.94	329.51	286	1R

Component Codes:

1 Single vertical seismometer
3 Orthogonal set of 3 seismometers
M Low-frequency microphone
R Station coordinates registered with the International Seismological Centre (ISC), England and the National Earthquake Information Centre (NEIC), USA
LG Single low-gain vertical seismometer
SM Strong motion seismometers
BB Broadband Instrument

TABLE 4

Depth / crustal velocity models used in earthquake locations

Structural area	Depth to top of layer (km)	P-wave velocity (km/sec)	Vp/Vs
North Sea	0.00	6.20	1.73
	12.00	6.50	
	23.00	7.10	
	31.00	8.05	
Lownet and general UK	0.00	4.00	1.73
	2.52	5.90	
	7.55	6.45	
	18.87	7.00	
	34.15	8.00	
Borders	0.00	4.10	1.71
	3.00	5.60	
	4.10	6.15	
	17.00	6.60	
	30.00	8.00	
North Wales (Lleyn)	0.00	5.40	1.68
	2.00	6.05	
	13.00	6.50	
	25.00	6.80	
	34.00	8.00	
Mid Wales	0.00	5.40	1.72
	3.80	6.05	
	15.50	6.65	
	34.30	8.00	
Cornwall	0.00	5.50	1.77
	0.30	5.76	
	15.00	6.90	
	30.00	8.00	

Appendix 1 Key to Bulletin Encoding

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

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

No	Total number of P and S readings used in the event location.
Gap	Largest azimuthal separation in degrees between stations.
RMS	Root Mean Square of the travel time residuals in seconds.
ERH	Standard error of the epicentre in kilometres. When this column is blank, the error is large and indeterminate.
ERZ	Standard error of the focal depth in kilometres. When this column is blank, the error is large and indeterminate.

Locality abbreviations

Sonic	Sonic boom	N Yorkshire	North Yorkshire
Expl	Explosion	Staffs	Staffordshire
D & G	Dumfries and Galloway	W Midlands	West Midlands
Gtr	Greater	Salop	Shropshire
S Yorkshire	South Yorkshire	W Sussex	West Sussex

Comments abbreviations

...	and felt elsewhere

Appendix 2 Key to Phase Data Encoding

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

Appendix 3 The European Macroseismic Scale (EMS 98)

1 - **Not felt**
Not felt, even under the most favourable circumstances.

2 - **Scarcely felt**
Vibration is felt only by individual people at rest in houses, especially on upper floors of buildings.

3 - **Weak**
The vibration is weak and is felt indoors by a few people. People at rest feel a swaying or light trembling.

4 - **Largely observed**
The earthquake is felt indoors by many people, outdoors by very few. A few people are awakened. The level of vibration is not frightening. Windows, doors and dishes rattle. Hanging objects swing.

5 - **Strong**
The earthquake is felt indoors by most, outdoors by few. Many sleeping people awake. A few run outdoors. Buildings tremble throughout. Hanging objects swing considerably. China and glasses clatter together. The vibration is strong. Top heavy objects topple over. Doors and windows swing open or shut.

6 - **Slightly damaging**
Felt by most indoors and by many outdoors. Many people in buildings are frightened and run outdoors. Small objects fall. Slight damage to many ordinary buildings eg; fine cracks in plaster and small pieces of plaster fall.

7 - **Damaging**
Most people are frightened and run outdoors. Furniture is shifted and objects fall from shelves in large numbers. Many ordinary buildings suffer moderate damage: small cracks in walls; partial collapse of chimneys.

8 - **Heavily damaging**
Furniture may be overturned. Many ordinary buildings suffer damage: chimneys fall; large cracks appear in walls and a few buildings may partially collapse.

9 - **Destructive**
Monuments and columns fall or are twisted. Many ordinary buildings partially collapse and a few collapse completely.

10 - **Very destructive**
Many ordinary buildings collapse.

11 - **Devastating**
Most ordinary buildings collapse.

12 - **Completely devastating**
Practically all structures above and below ground are heavily damaged or destroyed.

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A complete description of the EMS-98 scale is given in: Grunthal, G., (Ed) 1998. European Macroseismic scale 1998. Cahiers du Centre European de Geodynamique et de Seismologie. Vol 15.