BRITISH GEOLOGICAL SURVEY

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Bulletin of British Earthquakes 2017

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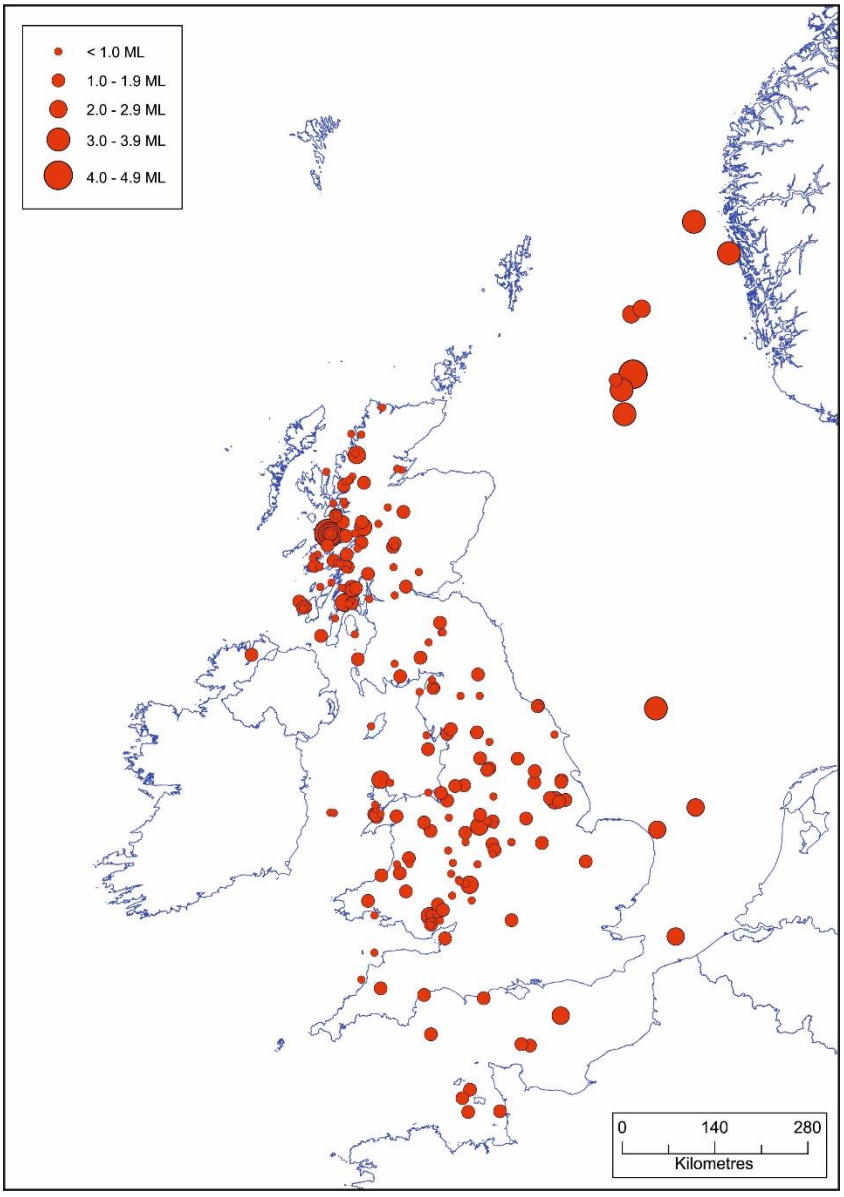

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1 Introduction

The British Geological Survey's (BGS) Seismic Monitoring and Information Service operates 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 2017, listed in Tables 1 and 2. Maps showing seismic activity in 2017 (Figure 1), 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 (11^{o}W to 6^{o}E and 48^{o}N to 64^{o}N).

All events believed to be of tectonic origin are included. Coalfield events are also included. Acoustic disturbances, such as sonic booms from supersonic aircraft, are included when they are felt. The airborne waves are readily identified by their slow travel time across an array but they are frequently mistaken as small earthquakes by the public. They are indicated by 'SONIC' in the locality 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 110 (78 permanent and 32 temporary) stations with broadband, short period and strong motion accelerometers. Of the permanent sites, some 44 are equipped with broadband seismometers and 29 have strong motion accelerometers, 23 of which are co-located with broadband sensors. The remaining 28 sites are equipped with short period seismometers. Data from all stations are transferred in near real-time to the BGS offices in Edinburgh for automatic processing, analysis and archiving. Seismic events are detected using automatic processing algorithms, but they can also be extracted manually from the archive of continuous data, then analysed to determine event types, locations and magnitudes. Operational BGS seismograph stations are shown in Figure 2.

The detection capabilities of a network depend upon station distribution, instrument sensitivity and background noise levels. Figure 2 also shows the magnitude detection thresholds for the seismograph stations operational during 2017. 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. Smaller events may go undetected unless they are felt and reported to BGS by local inhabitants, in which case detection can be 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 3 shows only earthquakes with magnitude 2.5 ML or above, in the period 1979 to 2017. The data set is considered complete for these magnitudes in all localities onshore. Seismicity for the period 1970 to 2017 is shown in Figure 4 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

HYPOCENTRE 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.

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.

MAGNITUDE

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

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

Where A is the maximum deflection (centre to peak in mm) registered on a Wood-Anderson seismograph and A_0 is that for a 'standard' magnitude zero earthquake at the same distance. The A_0 term is thus a distance correction factor, 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, A_0, 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 (I_{max}) usually found close to the epicentre. The maximum felt intensity is quoted, where known, with reference to the European Macroseismic Scale (EMS), (Grünthal, 1998).

FOCAL MECHANISM

Earthquake focal mechanisms provide information on the fault geometry and type of faulting that caused the earthquake, and can be used to better understand tectonic processes occurring within the Earth's crust. Calculating them involves mapping directions where the initial motion of the seismic waves is up (compressional) or down (dilatational) on a spherical projection. This results in distinctive "beach-ball" diagrams that show two shaded quadrants and two white quadrants that represent upward and downward initial motions. The dividing lines between the quadrants on the "beach-ball" define the orientation of the fault planes and the directions of slip. It is not possible to determine which of the two possible fault planes shown in the mechanism is the actual fault, so *a priori* information such as aftershock distribution is sometimes used to determine the causative fault. The strike and dip describe the orientation of the fault, and the rake describes the direction of slip (-90° for thrust or reverse faulting, 90° for normal faulting and 0° or 180° for strike-slip). The axes of maximum and minimum compression are denoted by black and white squares, respectively. The grid search method of Snoke *et al.* (1984) is used to determine the best-fitting fault plane solutions.

4 Summary of 2017 Seismicity

There were 224 earthquakes located by the BGS seismic monitoring network during the year, with 24 having magnitudes of 2.0 ML or above, eight having magnitudes of 3.0 ML or above and two having magnitudes of 4.0 ML or above. Some 14 events with a magnitude of 2.0 ML or above were reported felt, together with a further 14 smaller ones, bringing the total to 28 felt earthquakes in 2017.

The largest onshore earthquake of the year, with a magnitude of 4.0 ML and a focal depth of around 12 km, occurred on 4 August at 14:43 UTC and located on Moidart, Highland, approximately 50 km west of Fort William, 50 km NNW of Oban and 145 km northwest of Glasgow (Figure 5). It was the largest event to occur in Scotland since the magnitude 4.0 ML Arran earthquake on 4 March 1999, which was felt over an area of around 18,500 km^2, with a maximum intensity of 4 EMS. The focal mechanism obtained for this event shows either right-lateral slip on a fault that strikes north-northwest south-southeast and dips at 57^o to the west-southwest, or left-lateral slip on a fault that strikes approximately east-west and dips north at 65^o (Figure 6). This is in good agreement with focal mechanisms calculated for other earthquakes across the region, which all show similar solutions. Data from over 350 questionnaires (Figure 7), collected online, were used to determine how widely the earthquake was felt. Analysis of these reports, received from members of the public, shows that it was felt widely across the region, from Inverness to the northeast, to Glasgow in the south and Islay to the west. Typical reports described "all our windows and doors rattled", "our whole house shook", "cups and saucers on the table all rattled", "a loud bang followed by a rumble, enough for us to go outside to see what had happened" and "everyone in the shop and people in surrounding shops noticed it". A maximum intensity of 5 EMS was assigned for this earthquake. It was followed two minutes later, at 14:45 UTC, by a

magnitude 3.4 ML earthquake, in the same location, which was also felt throughout the region with a maximum intensity of 4 EMS. A further three aftershocks were detected, all on 4 August, at 15:20 UTC, 16:07 UTC and 17:35 UTC, with magnitudes of 1.1 ML, 1.2 ML and 2.2 ML, respectively. The magnitude 2.2 ML event was felt by several residents on Moidart, with intensities of at least 3 EMS (Baptie et al, 2017).

The largest offshore earthquake of the year occurred in the Central North Sea, at 13:33 UTC on 30 June, with a magnitude of 4.7 ML and a focal depth of around 8 km (Figure 8). It located approximately 215 km southeast of Lerwick, Shetland Islands and 310 km northeast of Aberdeen. It was felt in Lerwick, Sumburgh and Fair Isle (Shetland Islands), in Sanday and Kirkwall (Orkney Islands), in Wick and Thurso (Highland), in Fraserburgh (Aberdeenshire) and in a few locations in western Norway. Reports described "we were sleeping on sofa and the rumbling noise awoke both of us", "it felt like a heavy lorry drove by just outside our house", "the windows rattled for a few seconds" and "the sliding doors vibrated", indicating an intensity of at least 3 EMS. The epicentre of this earthquake is approximately 100 km southwest of the magnitude 5.7 event that occurred in the Viking Graben region of the North Sea on 24 January 1927, and which was felt throughout western Norway and down most of the east coast of Scotland. Another two earthquakes, with magnitudes greater than 3.0 ML, occurred in the same general region of the Central North Sea during the year. The first, with a magnitude of 3.6 ML, occurred at 01:42 UTC on 7 July and the second, with a magnitude of 3.3 ML, occurred at 08:14 UTC on 14 September. On 3 January, at 18:52 UTC, an earthquake with a magnitude of 3.8 ML was felt in Scarborough, with intensities of 2 EMS. It occurred in the Southern North Sea region, approximately 155 km east of Scarborough, North Yorkshire (Figure 9). A further nine events occurred in the North Sea during the year, with magnitudes ranging between 1.5 ML and 3.7 ML.

On 15 January, at 22:58 UTC, an earthquake with a magnitude of 1.0 ML, occurred near Beddgelert, Gwynedd. It was felt, with a maximum intensity of 3 EMS, by residents in Llanberis, Minffordd, Tremadog, Waunfawr, Pentir, Garndolbenmaen, Tregarth, Caernarfon, Penrhynddeudraeth, Blaenau Ffestiniog and Myndd Llandyai, Gwynedd.

A magnitude 1.2 ML earthquake occurred at 16:00 UTC on 21 January, near Kilmore, Argyll & Bute, approximately 8 km southeast of Oban. A single report was received from a resident in the nearby hamlet of North Connel, which described, "sounded like a goods train going past", indicating an intensity of 2 EMS.

On 24 January, at 16:35 UTC, an earthquake with a magnitude of 2.4 ML, occurred near Lephinmore, Argyll & Bute. It was felt by a number of residents in the hamlets, villages and towns of Lochgilphead, Lochgair, Kilmory, Minard, Otter Ferry, Leckuary, Ardrishaig, Castleton, Ardfern, Ardtaraig, Tayvallich, Clachan of Glendaruel, Tighnabruaich, Kilfinan, Dunoon, Cairnbaan, Tarbert, Stronachullin, Kilmelford, Melldalloch and Colintraive, Argyll & Bute. Typical reports described "a thump followed by a rumble lasting at least two or three seconds", "loud bang followed by a deep rumbling and slight shaking", "whole house shook as if something had exploded nearby" and "it sounded very similar to rocks being tipped from a lorry", indicating a maximum intensity of 3 EMS. It locates approximately 50 km southeast of the magnitude 4.1 ML Oban earthquake of 29 September 1986, which was felt over an area of around 30,000 km^2 with a maximum intensity of 5 EMS. It also locates approximately 14 km SSE of the magnitude 5.2 ML Argyll earthquake on 28 November 1880, the largest of all recorded Scottish earthquakes, which was felt all along the west coast of Scotland, east as far as Perthshire, throughout the Inner and Outer Hebrides and extensively in Northern Ireland. The following day, on 25 January at 16:32 UTC, an earthquake with a magnitude of magnitude 1.4 ML, occurred in the same region, near Lephinmore, and was felt by a single resident in Kilmory, Argyll & Bute.

An earthquake, with a magnitude of 2.6 ML, occurred on 3 March, at 09:28 UTC, near the market town of Stone, Staffordshire (Figure 10). It was felt by a single resident in the nearby village of Oakamoor. Earthquakes of this size are usually felt more when they occur onshore but enquiries to local Police stations and Post Offices revealed that no further felt reports were received. The

depth (13.1 km) may have contributed to the lack of felt effects. Historically, the largest earthquake to have occurred nearby, approximately 7 km to the SSW, was the magnitude 4.6 ML Stafford event that occurred on 14 January 1916. It was felt throughout the region from Lancaster in the north to Bristol in the south, and from Cardiff in the west to Norwich in the east and caused considerable damage to many buildings in and around Stafford.

Near Hinderwell, North Yorkshire, three events occurred on 20 March at 02:06 UTC, 02:16 UTC and 04:24 UTC, with magnitudes of 1.3 ML, 1.3 ML and 0.8 ML, respectively. Both the magnitude 1.3 ML events were felt, by several residents, in the villages of Hinderwell and Staithes, with intensities of 3 EMS. The magnitude 0.8 ML event was felt, by a single resident, in the village of Staithes.

On 19 May at 23:14 UTC, an earthquake with a magnitude of 1.8 ML, occurred on the Knoydart peninsula in the Scottish Highlands. It was felt by several residents from Inverie, the main village on the peninsula, who described, "the kitchen window rattled" and "there was a single big boom, like an explosion", indicating an intensity of around 3 EMS. A further two events were detected in the region in the following days, at 03:51 UTC on 20 May and at 21:57 UTC on 22 May, with magnitudes of 0.6 ML and 1.1 ML, respectively.

A magnitude 2.0 ML earthquake occurred at 20:08 UTC on 2 June near Spean Bridge, Highland Region. It was felt in Spean Bridge and by several residents in the surrounding villages of Gairlochy, Roybridge and Banavie, who described "was like a rock blast" and "sounded like an explosion with a rumble to match", indicating an intensity of 3 EMS.

On 5 June at 13:17 UTC, a magnitude 2.1 ML earthquake occurred approximately 5 km northeast of Lincoln, Lincolnshire. It was felt in Reepham, Stainton by Langworth, Grantham, Grimsby and Sutton-on-Sea. One report described "thought it was rumbling from neighbouring washing machine, but much louder". An intensity of 3 EMS was assigned to this earthquake. It is the largest event detected in the general area (within 25 km) since the magnitude 2.7 ML Gainsborough earthquake on 19 June 2010. It is also located approximately 17 km SSW of the magnitude 5.2 ML Market Rasen earthquake which occurred on 27 February 2008 and was felt throughout England with a maximum intensity of 6 EMS.

An earthquake, with a magnitude of 2.4 ML, and a depth of around 7 km, occurred at 23:05 UTC on 10 June, with a location near the spa town of Malvern, Worcestershire. It was felt by three residents in Malvern who described "small items on my dressing table fell over", "very deep rumble, like the start of some thunder" and "an unusual sound, like a large object briefly brushing the house", indicating an intensity of 3 EMS. Historically, the largest event to have occurred in this area was the magnitude 5.3 ML Hereford earthquake on 17 December 1896, which was felt throughout most of England and Wales. Significant damage was caused in Hereford and surrounding villages, where over 200 chimneys were damaged or twisted.

A magnitude 2.1 ML earthquake occurred at 10:28 UTC on 16 July, with an epicentre near the town of Bargoed, Caerphilly. No felt reports were received for this event. This is an area that has experienced many seismic events in the past. The event in 2017 locates in the same area as events on 10 October 2001, 18 October 2001 and 12 February 2002 with magnitudes of 3.1 ML, 2.5 ML and 3.0 ML, respectively, that were all felt with intensities of 4 EMS.

On 17 July, the BGS received several reports from residents in Jersey and Guernsey, Channel Islands of a possible event sometime around 21:00 UTC. Reports described "all doors in the house were shaking", "we felt a faint rumble" and "the rattling of windows in their frames and a slight vibration, felt by person lying on floor". Data from the BGS seismic networks in the region were examined and signals consistent with a possible sonic origin were recorded between 21:00:00s and 21:00:40s UTC, on several stations (namely JVM, JSA, JRS, JQE and JDC) on the BGS seismic network in Jersey.

At 07:58 UTC on 23 July, an earthquake, with a magnitude of 2.3 ML, occurred near the village of Badrallach, Highland. It was felt by residents in Badrallach and also by residents in the

surrounding towns and villages of Ullapool, Dundonnell, Acheninver, Achiltibue, Ardessie, Lochbroom, Loggie, Camusnagaul and Gruinard, who described “it felt like lorries passing the house”, “the walls visibly shook”, "the whole house shook and the windows rattled" and “the mirror rattled which is lying next to the wall". An intensity of 3 EMS was assigned to this earthquake.

On 2 August, an earthquake with a magnitude of 1.4 ML, occurred approximately 2 km WNW of the seaside village of Rathmullan, County Donegal. The BGS received information from the local Media that it was felt by several residents in the Milford area on the Fanad peninsula, County Donegal.

An earthquake, with a magnitude of 1.5 ML, and a depth of around 7 km, occurred at 02:19 UTC on 4 August, with a location approximately 7 km NNW of Kingussie, Highland. It was felt by a couple of residents in the town of Kingussie and by another, single resident in the village of Kincraig. Reports described “felt like something impacting the house”, “the windows rattled”, “thought it might be burglars trying to break the door” and “felt like a heavy train passing by”, indicating an intensity of about 3 EMS.

An earthquake, with a magnitude of 2.0 ML, occurred on 9 August at 04:41 UTC with a location in the Irish Sea, approximately 12 km NNW of Amlwch, Anglesey and 12 km NNE of Wylfa Nuclear Power Station (Figure 11). It was felt, by a single resident, in Amlwch who described “a slight shaking and a faint rumble”.

An earthquake, with a magnitude of 2.0 ML, occurred at 15:34 UTC on 9 August in the English Channel region, approximately 55 km SSW of Brighton, East Sussex. Four other earthquakes occurred in the English Channel region during the year, with magnitudes ranging between 0.9 ML and 1.9 ML.

On 8 September at 20:47 UTC, a magnitude 1.3 ML earthquake occurred near the village of Langham, Rutland. It was felt by several residents in Langham, Oakham, Ashwell, Market Overton, Barleythorpe, Edith Weston, Cottesmore, Whissendine and Burley, who described “a very loud rumble”, “we thought it was thunder”, “there was a loud bang and the crockery shook in the cupboard”, “it sounded like a truck crashing” and “the curtains moved”, indicating an intensity of at least 3 EMS.

A magnitude 1.2 ML earthquake occurred at 01:37 UTC on 27 September, with an epicentre approximately 3 km NNE of the village of Ringford, Dumfries and Galloway. It was felt by a single resident in Dalbeattie, who described feeling a “slight tremor”.

On 4 October, the BGS received several reports (via Media sources in Suffolk and Norfolk) of a possible event felt by residents in several towns and villages across Suffolk, Norfolk and Essex, sometime around 07:30 UTC. Reports described “the whole house shook”, “the windows rattled and all the birds outside went crazy”, “we thought it was an explosion” and “there was a loud bang”. Data from the BGS seismic networks in the region were examined and a signal consistent with a possible sonic origin was recorded at 07:37 UTC on the BGS seismic station near Elmsett, Suffolk.

On 8 October, at 22:55 UTC, a magnitude 1.4 ML earthquake occurred around 2 km SSE of Oban, Argyll and Bute. It was felt by a single resident in Croggan, Isle of Mull, approximately 15 km west of the epicentre, who described “loud roar like a plane overhead but with no build up or fade away”.

An earthquake, with a magnitude of 2.6 ML, occurred at 20:59 UTC on 1 November, near the village of Tarbert, Argyll and Bute (Figure 12). It was felt by several residents in Tarbert, Tighnabruaich, Kilfinnan, Ardrishaig, Inverneill and Ormsary, Argyll and Bute. Reports described “there was a rumbling and a bang which was longer and louder than thunder and it frightened me”, “the windows rattled”, “the shaking lasted around 3 or 4 seconds” and “we thought it was a very large and heavy vehicle on the road outside”, indicating an intensity of at least 3 EMS.

Three earthquakes, within 15 minutes of each other, were detected on 13 December on the island of Islay, Argyll and Bute. They occurred at 02:01:29, 02:01:49 UTC, and 02:16 UTC with magnitudes of 0.9 ML, 0.8 ML and 1.1 ML, respectively. None were reported felt.

On 20 December at 08:15 UTC, an earthquake, with a magnitude of 1.5 ML, occurred on the Morvern peninsula in the Scottish Highlands. It was felt in Kilchoan, Highland, in Gruline, on the Island of Mull and in Clachan and Achnacroish, on the Island of Lismore, Argyll and Bute. An intensity of 3 EMS was assigned for this earthquake.

An earthquake, with a magnitude of 1.7 ML, occurred on 26 December at 22:40 UTC, on the Island of Mull, Argyll & Bute. It was felt by several residents on the islands of Mull and Lismore, Argyll & Bute and it was also felt on the mainland, in the township of Acharacle, Highland. Reports described, "a long extended rumble", "sounded like a nearby quarry blast, but too unusual a date and time for this", "loud roar for a few seconds, like previous earthquakes we have experienced" and "a noticeable rumbling for a few seconds", indicating an intensity of at least 3 EMS. A further six events occurred on the Island of Mull during the year, with magnitudes ranging between 0.5 ML and 1.1 ML, of which none were reported felt.

5 UK Seismicity Statistics

In Figure 13, the histogram of earthquakes above magnitude 2.0 detected per year in different magnitude ranges, shows significant variation across the 48 years of modern instrumental monitoring. In the early years, the 1970s, instrumental coverage across the UK was sparse, and that influences the picture, although it was improving in the second half of the decade. The annual catalogues are thought to be complete at magnitude 3.5 ML or greater for 1970 to 1978, and for magnitude 2.5 ML and greater from 1979. Almost all of the earthquakes above 2.5 ML would be felt by people. Some of the peaks seen in Figure 13 have obvious explanations:

- In 1980, there was a continuing long aftershock sequence of the Carlisle earthquake of 26 December 1979 (4.7 ML). The largest two (both 3.8 ML) occurred in January and December 1980, the latter almost one year later than the mainshock. A local, temporary station was installed in a Longtown church three days after the mainshock, followed by three more distant stations in 1980.

- The largest onshore earthquake known in the UK's history occurred on the Lleyn Peninsula, Gwynedd in 1984 (19 July) with a magnitude of 5.4 ML. A multi-station monitoring network was installed, shortly afterwards, across North Wales. The aftershock sequence continued for more than a year and confirmed that the activity was relatively deep for UK earthquakes, at around 20 km.

- The high peak in 2002 is dominated by an earthquake sequence near Manchester, which started on 19 October 2002 and continued until January 2003. Some 53 events above magnitude 2.0 ML were recorded and 37 were felt, the largest with a magnitude of 3.9 ML. Temporary stations were deployed to record the smaller events.

- The peak in 2014, is the result of an extended coal-mining induced series of earthquakes near New Ollerton, Nottinghamshire, which were studied with a temporary mobile network of monitoring stations. Some 65 events were felt, of which ten were magnitude 2.0 ML or greater.

- In 1974-75, there are clear peaks in earthquakes with magnitudes of 3.0 ML and greater during this period; around half of them were centred near Kintail, NW Scotland. There were few

monitoring stations in the UK at this time, so it is not known whether they were accompanied by many or a few smaller magnitude events.

- The Bishops Castle, Shropshire, earthquake in April 1990 (5.1 ML) and the Market Rasen, Lincolnshire earthquake in February 2008 (5.2 ML), both showed very limited aftershock sequences despite being well monitored. The former had seven aftershocks (all less than or equal to 1.5 ML and none felt) and the latter had eleven aftershocks, with magnitudes ranging between 0.6 ML and 2.8 ML, (the largest felt locally).

- The year 2016 is quite remarkable for producing the fewest earthquakes in the whole 48 year series, in all magnitude ranges above 2.0 ML, with a total of only three events in the 2.0 ML - 2.9 ML range and none above that.

- The largest earthquake in Scotland for 18 years, with a magnitude of 4.0 ML, occurred on Moidart, Highland in 2017 (4 August). Only five other earthquakes of this size or greater have been observed in Scotland, in the period of instrumental recording from 1970.

Figures 14 and 15 show the statistics for all earthquakes known to be felt from 1979 to 2017, including those below magnitude 2.0 ML. As might be expected, Figure 14 shows three of the same peaks as for the event occurrences seen in Figure 13; namely the 1984 Lleyn, 2002 Manchester and 2014 New Ollerton events. However, there were many events felt with magnitudes below 2.0 ML, and these were mainly related to coal mining.

Figure 15 shows the split between the number of felt events in coalfield areas (most of them mining-induced) and those which are natural earthquakes. It can be seen that the coalfield event distribution across the 39 years (1979 - 2017), largely mirrors the distribution of smaller events (2.0 ML or less) in Figure 14. As UK mining-induced events almost always occur within one km of the surface, they are felt at low magnitudes as they are close to the communities exposed. Natural earthquakes in the UK are generally in the depth range 3-20 km. By the year 2000, deep coal mining across the UK was tailing off and the upsurge in the mining-induced events in 2014 was associated with the Thoresby mine at New Ollerton, Nottinghamshire, which closed in 2015. The lack of mining events in 1984 is caused by the general miners' strike that year.

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References

Baptie, B., Ford, G. and Galloway, D., 2017. The Moidart Earthquakes of 4 August 2017. *British Geological Survey Open Report*, OR/17/062 25pp.

Grünthal, G., (Ed) 1998. European Macroseismic scale 1998. Cahiers du Centre European de Geodynamique et de Seismologie. **Vol 15.**

Lienert, B.R.E. and Havskov, J., 1995. A computer program for locating earthquakes both locally and globally, *Seis. Res. Lett*., **66**, 26-36.

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

Snoke, J. A., Munsey, J.W., Teague, A.C. and Bollinger, G.A. 1984. A program for focal mechanism determination by combined use of polarity and SV –P amplitude ratio data, *Earthquake Notes*, **55**, **3, 15**.

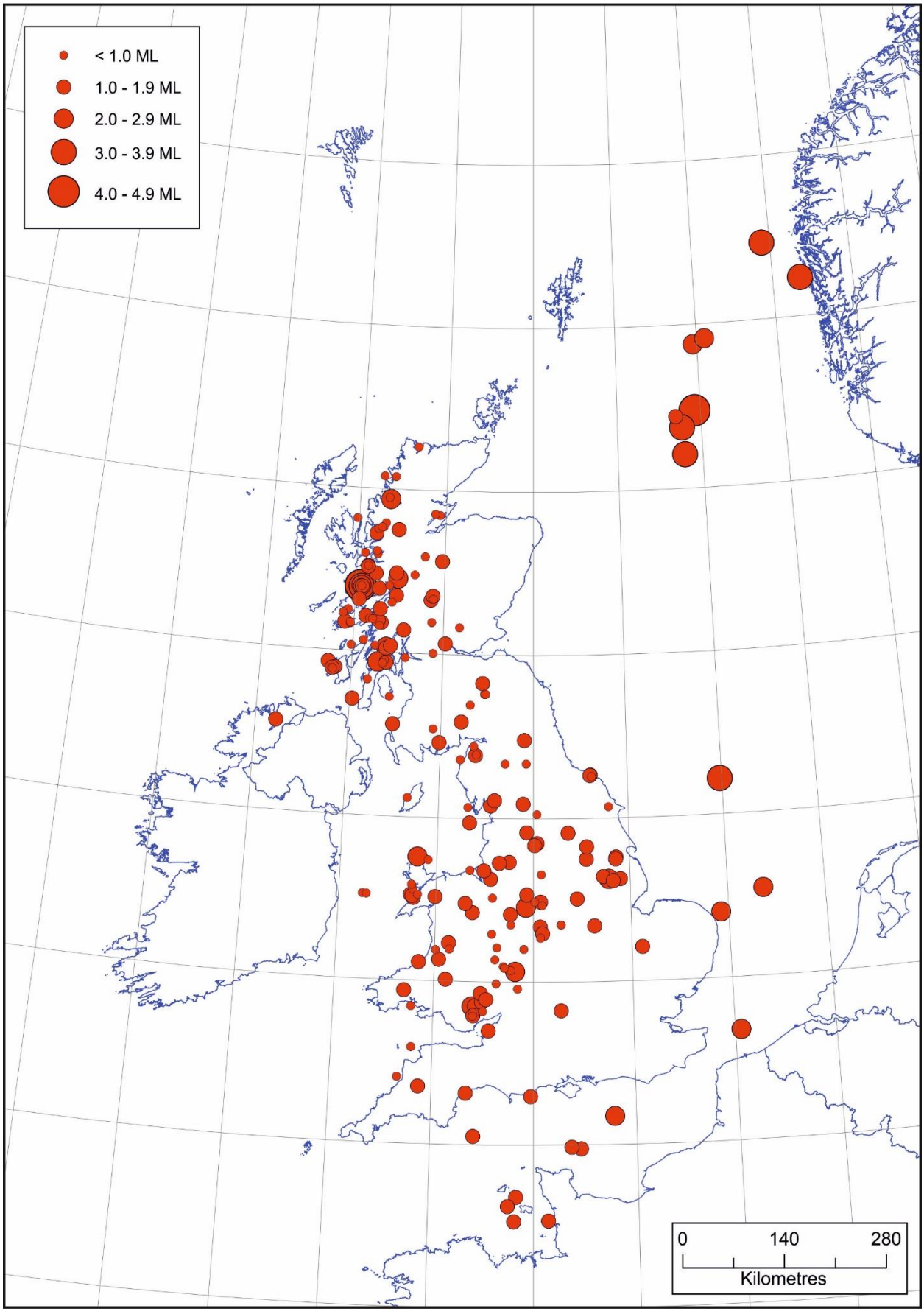

Figure 1. Epicentre map of earthquakes in 2017 as listed in Table 1.

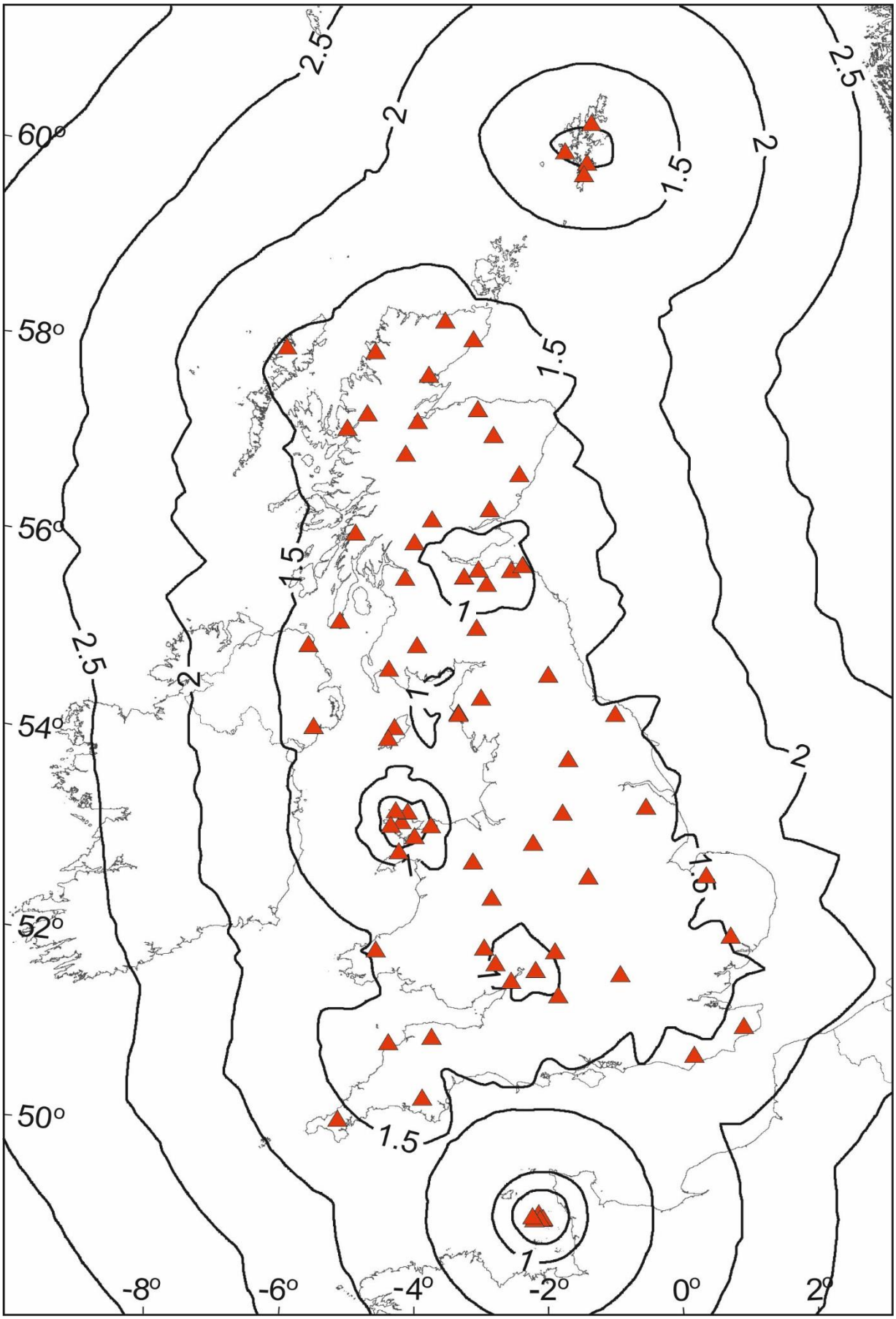

Figure 2. Seismograph stations operated by BGS during 2017. The contours show earthquake detection capability in terms of Richter local magnitude (ML) calculated for average background noise conditions (4nm) where the detection criterion is that the signal has to exceed 4nm at 10Hz at 4 stations.

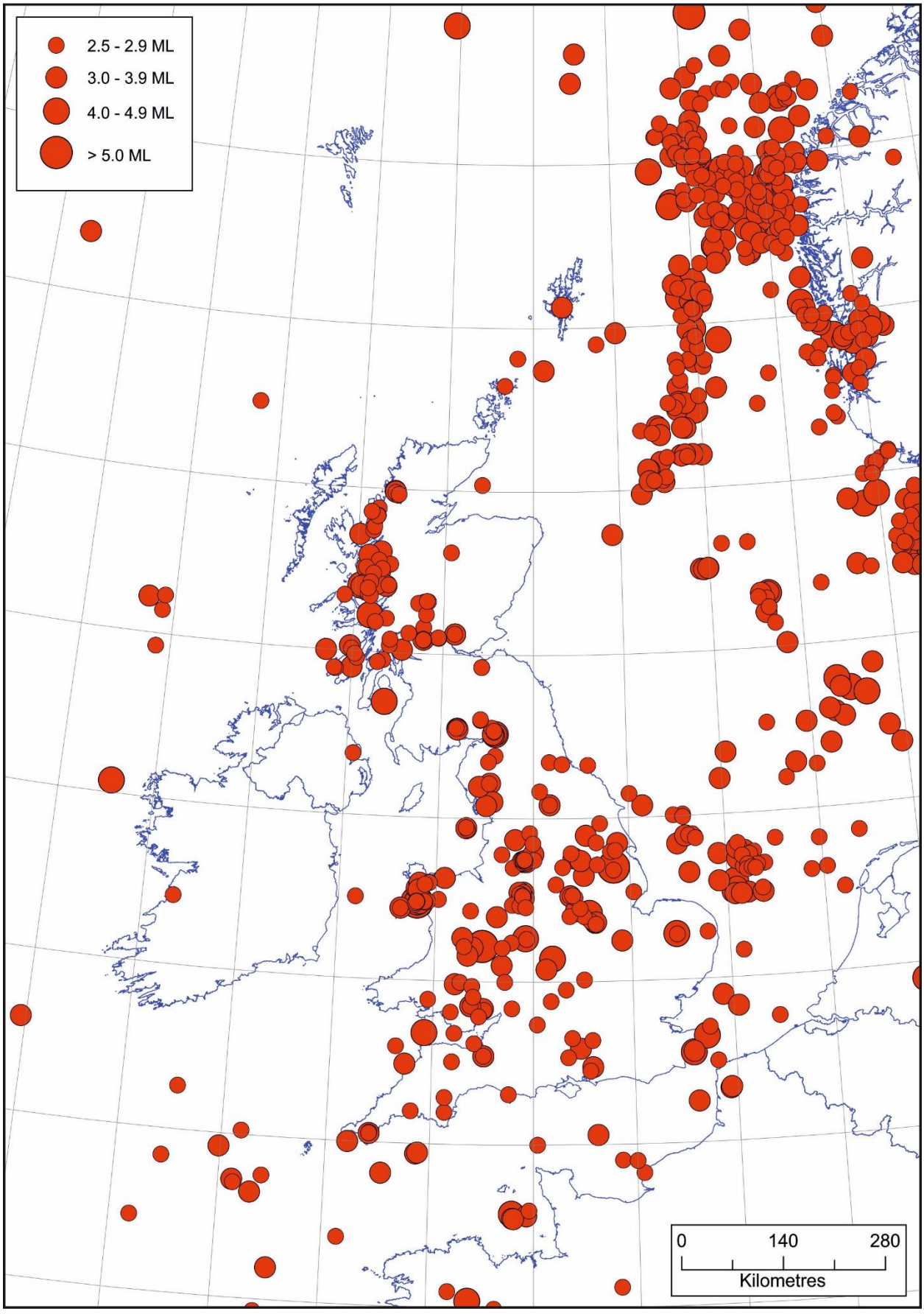

Figure 3. Epicentres of earthquakes with magnitudes of 2.5 ML and above, in the period 1979 to 2017.

Figure 4. Epicentres of earthquakes with magnitudes of 3.5 ML and above, in the period 1970 – 2017.

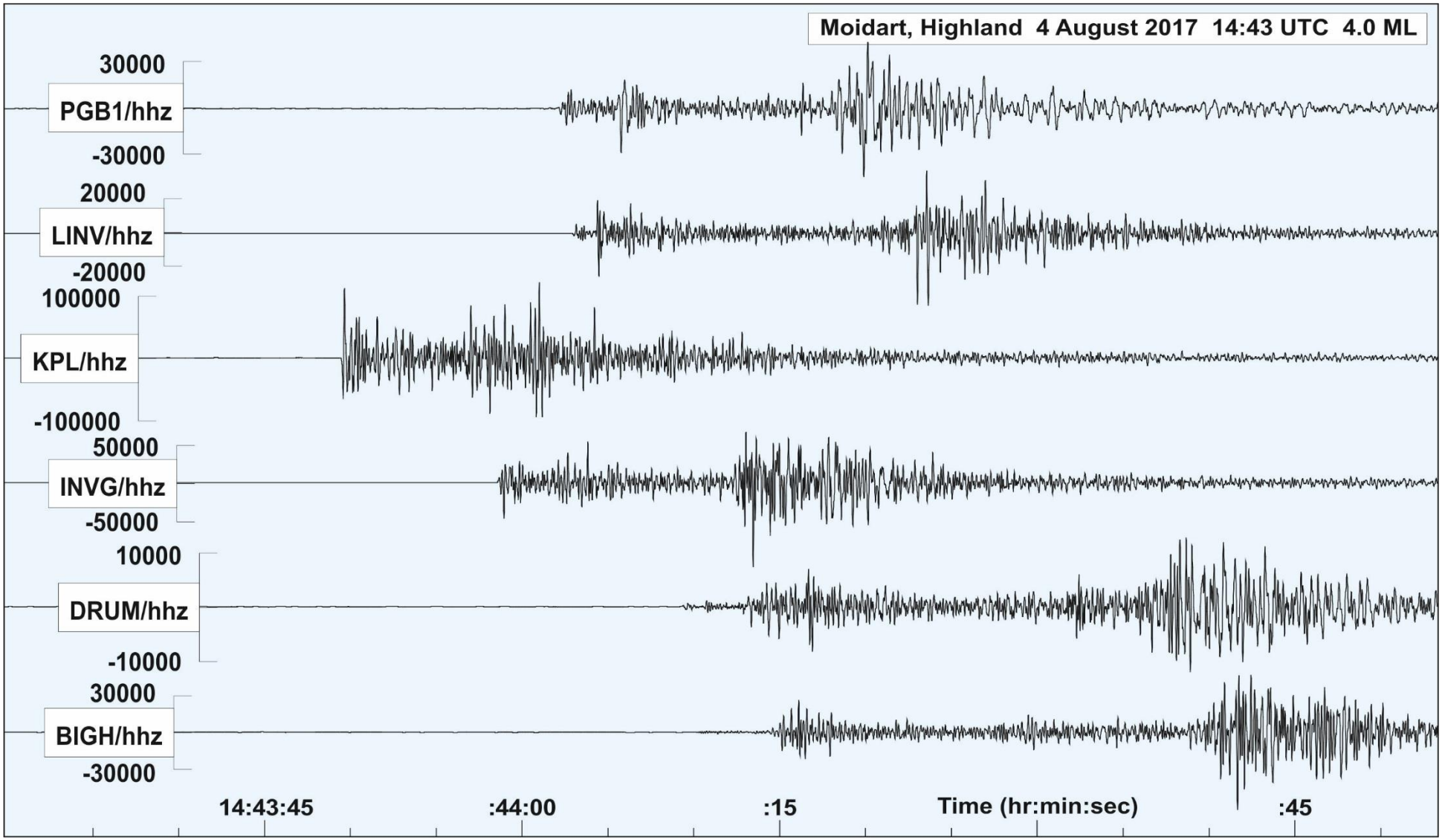

Figure 5. Seismograms of the ground displacement from the magnitude 4.0 ML Moidart earthquake, 4 August 2017, recorded by BGS seismograph stations.

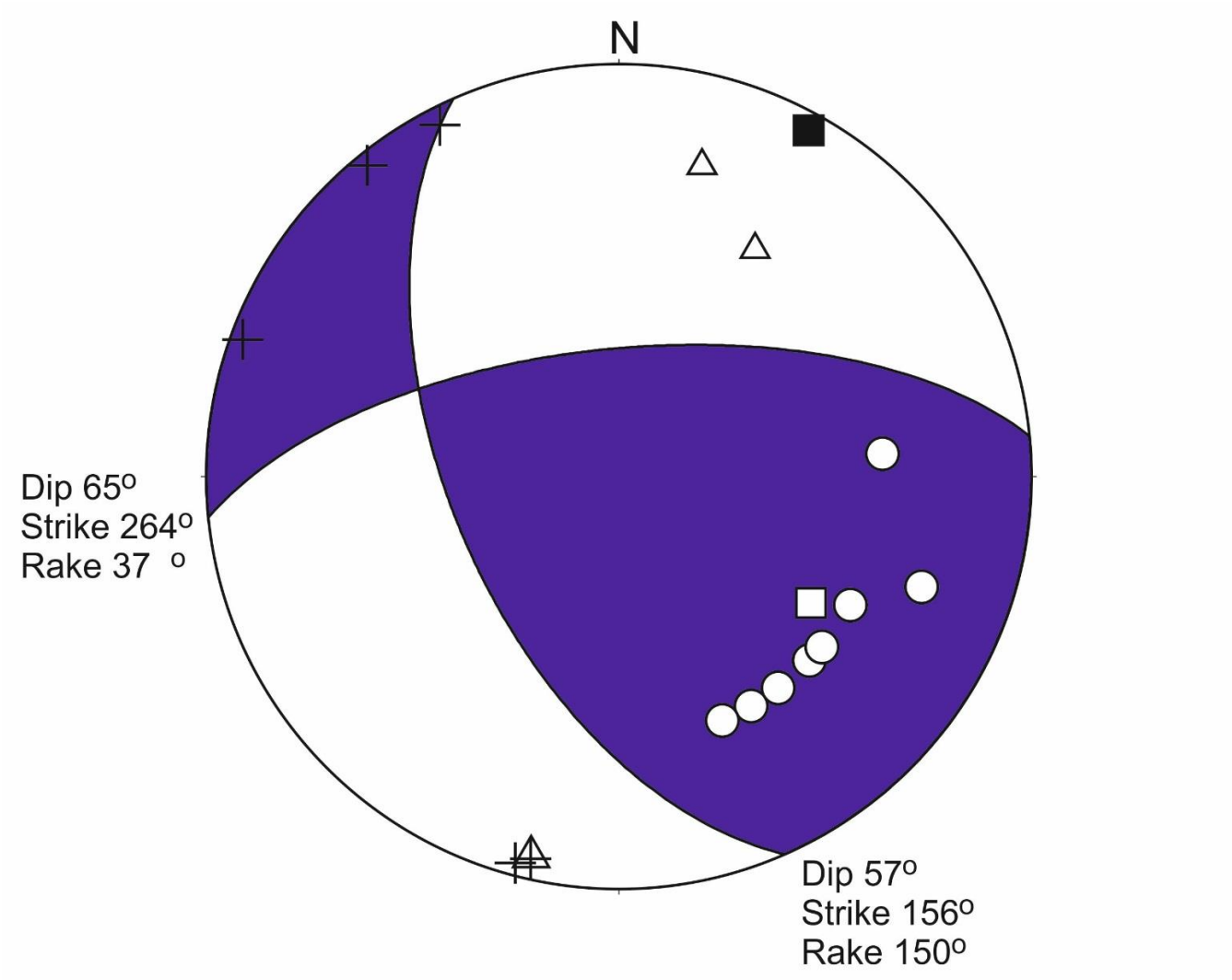

Figure 6. Lower hemisphere, equal projection of the focal mechanism for the Moidart earthquake on 4 August 2017. The blue shaded areas show areas of compressional first motion. The white circles and triangles show measured compressional and dilatational first motions, respectively. Black crosses show SH/V amplitude ratios. The black and white squares show the orientations of the axes of maximum (P) and minimum (T) compression, respectively (Snoke et al,. 1984).

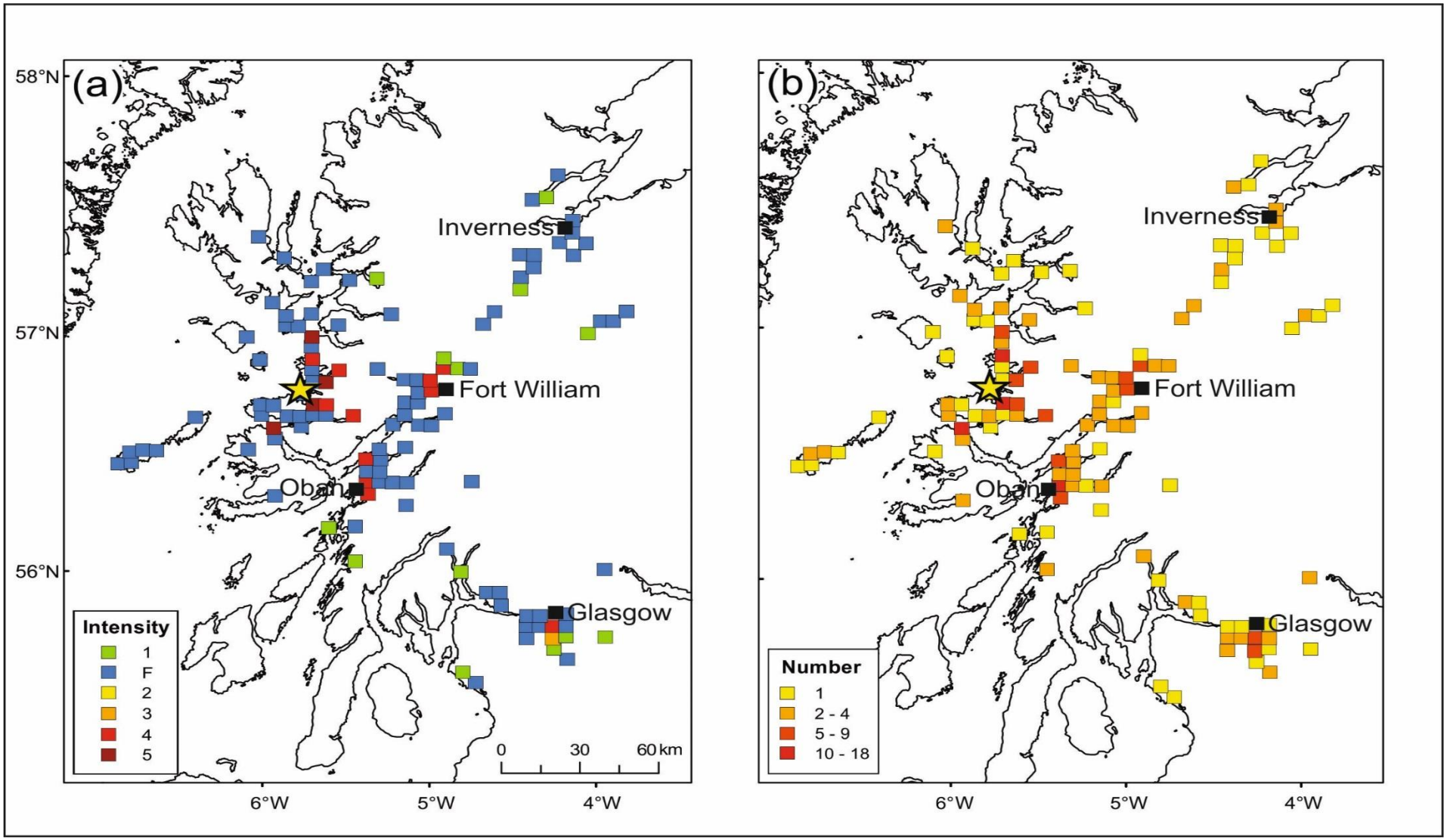

Figure 7. (a) Macroseismic intensities for the Moidart earthquake on 4 August 2017 calculated in 5 km grid squares. A minimum of five observations are required to calculate an intensity value. Squares are coloured by intensity. (b) Shows the number of observations to determine each intensity value.

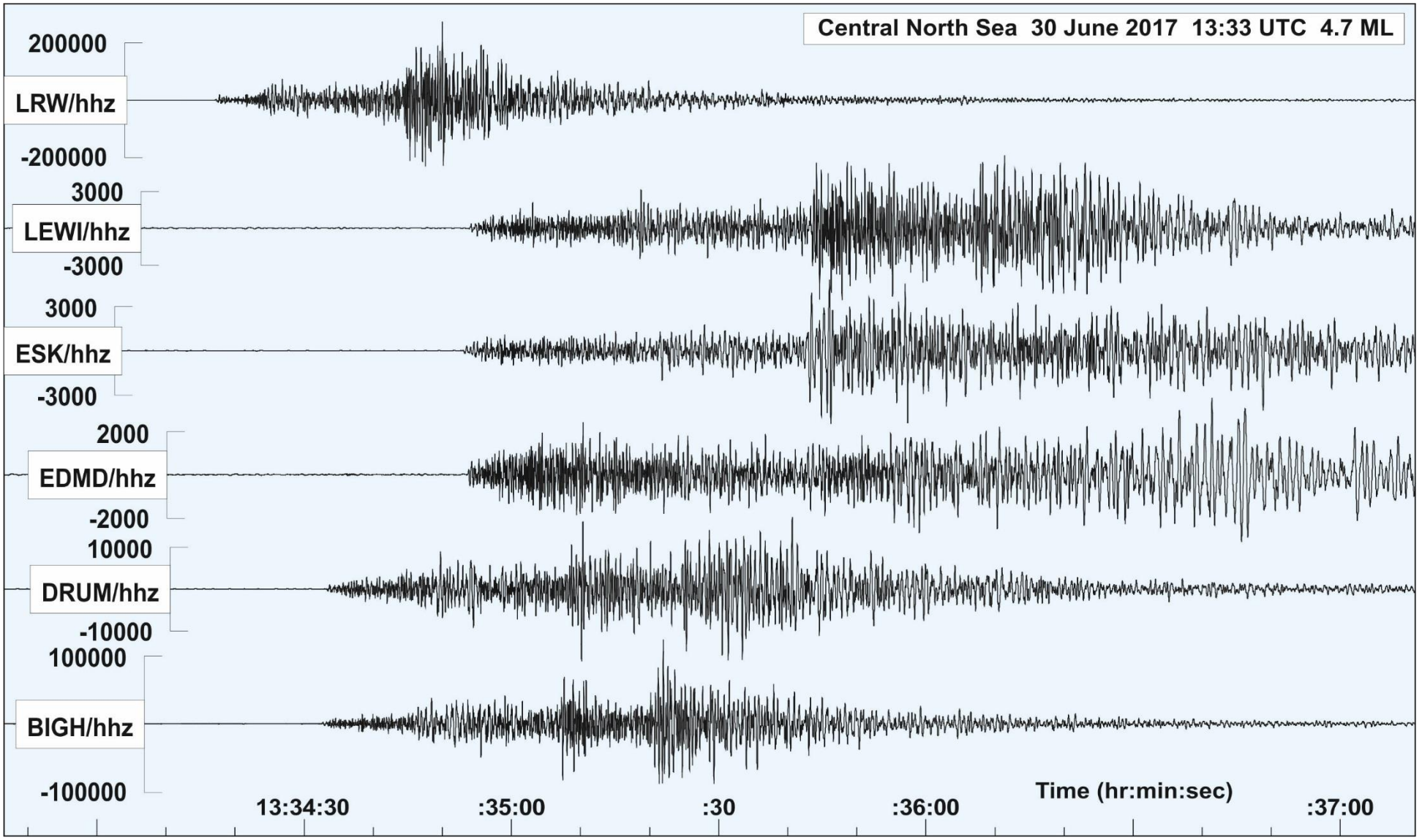

Figure 8. Seismograms of the ground displacement from the magnitude 4.7 ML Central North Sea earthquake, 30 June 2017, recorded by BGS seismograph stations.

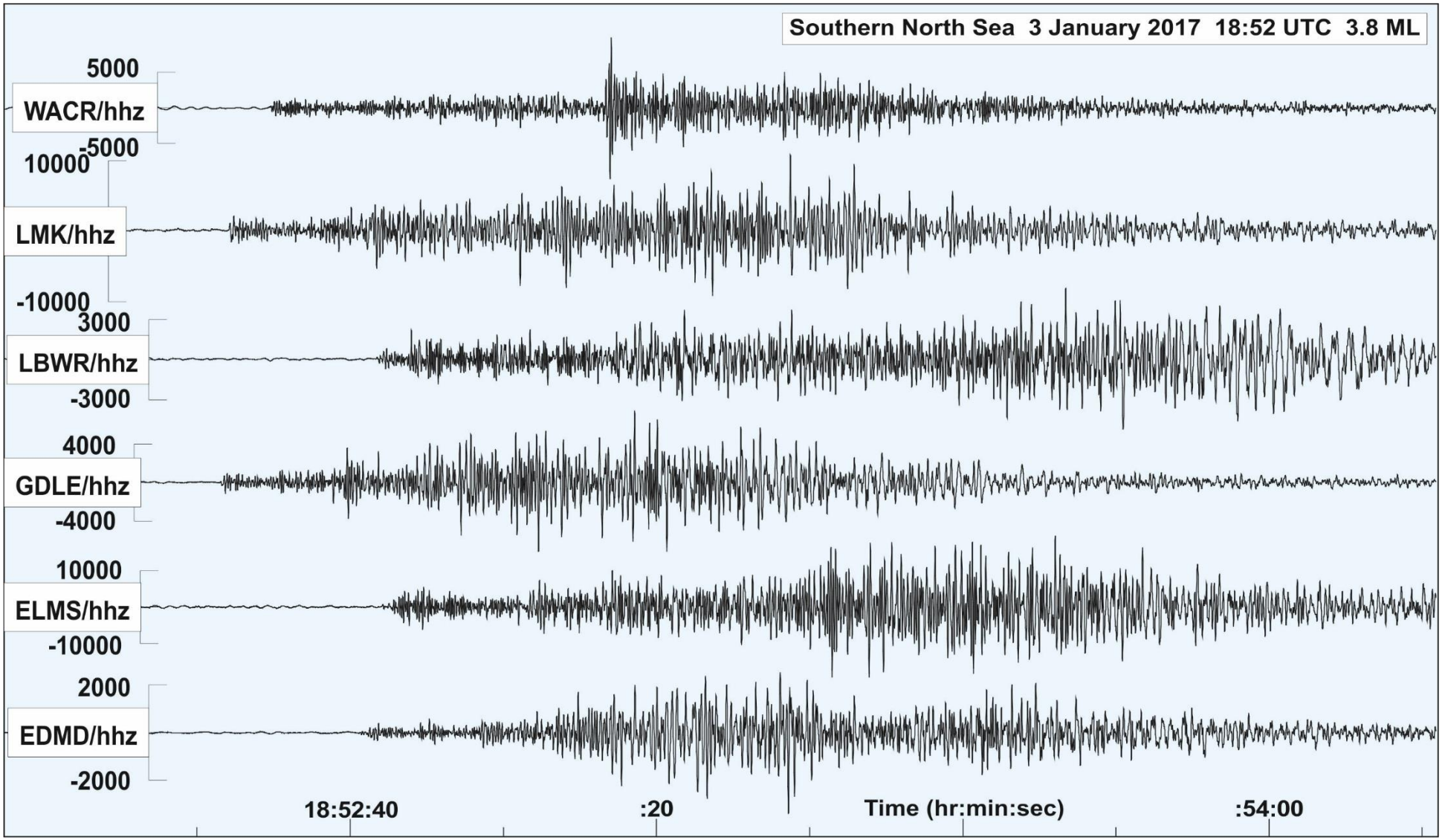

Figure 9. Seismograms of the ground displacement from the magnitude 3.8 ML Southern North Sea earthquake, 3 January 2017, recorded by BGS seismograph stations.

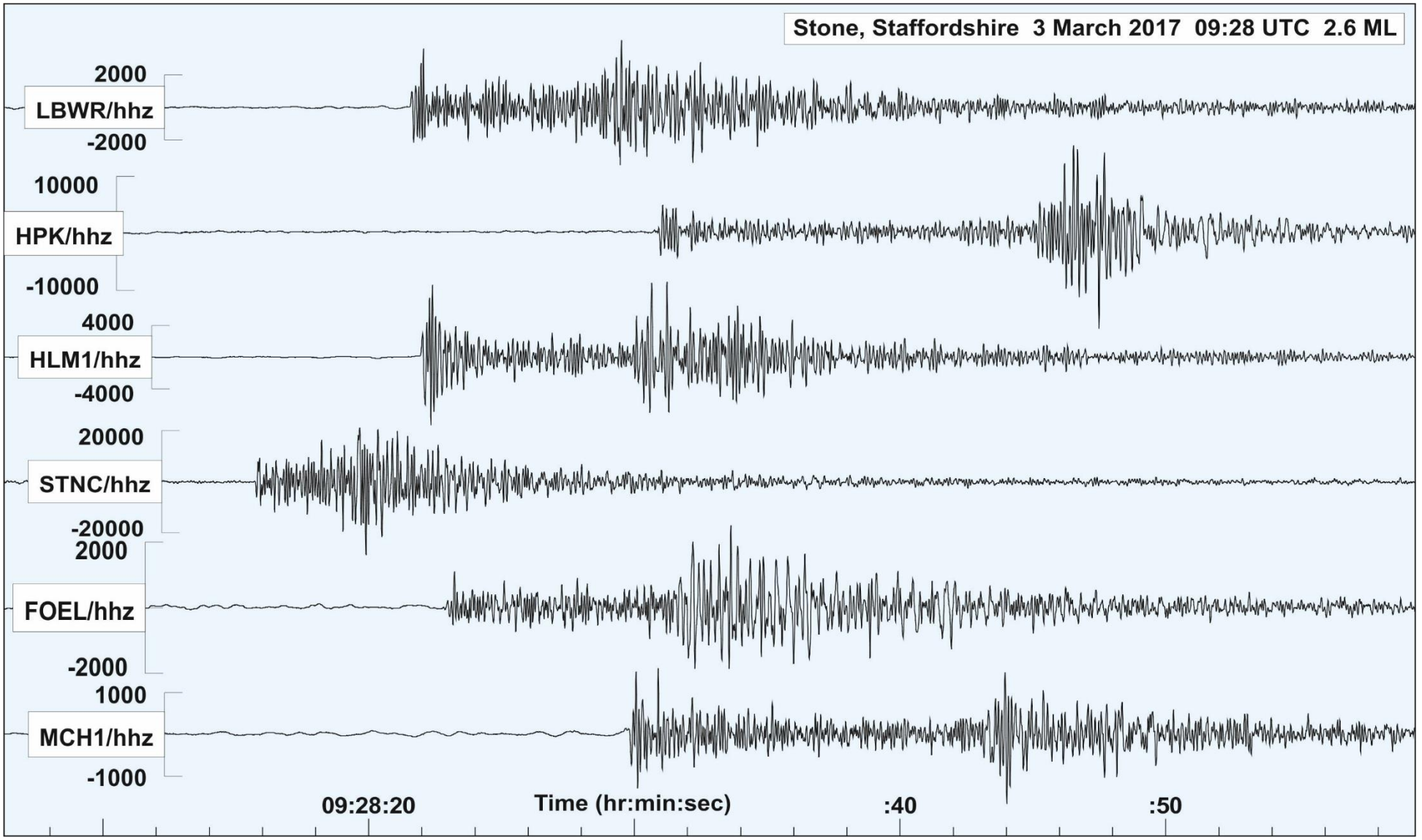

Figure 10. Seismograms of the ground displacement from the magnitude 2.6 ML Stone, Staffordshire earthquake, 3 March 2017, recorded by BGS seismograph stations.

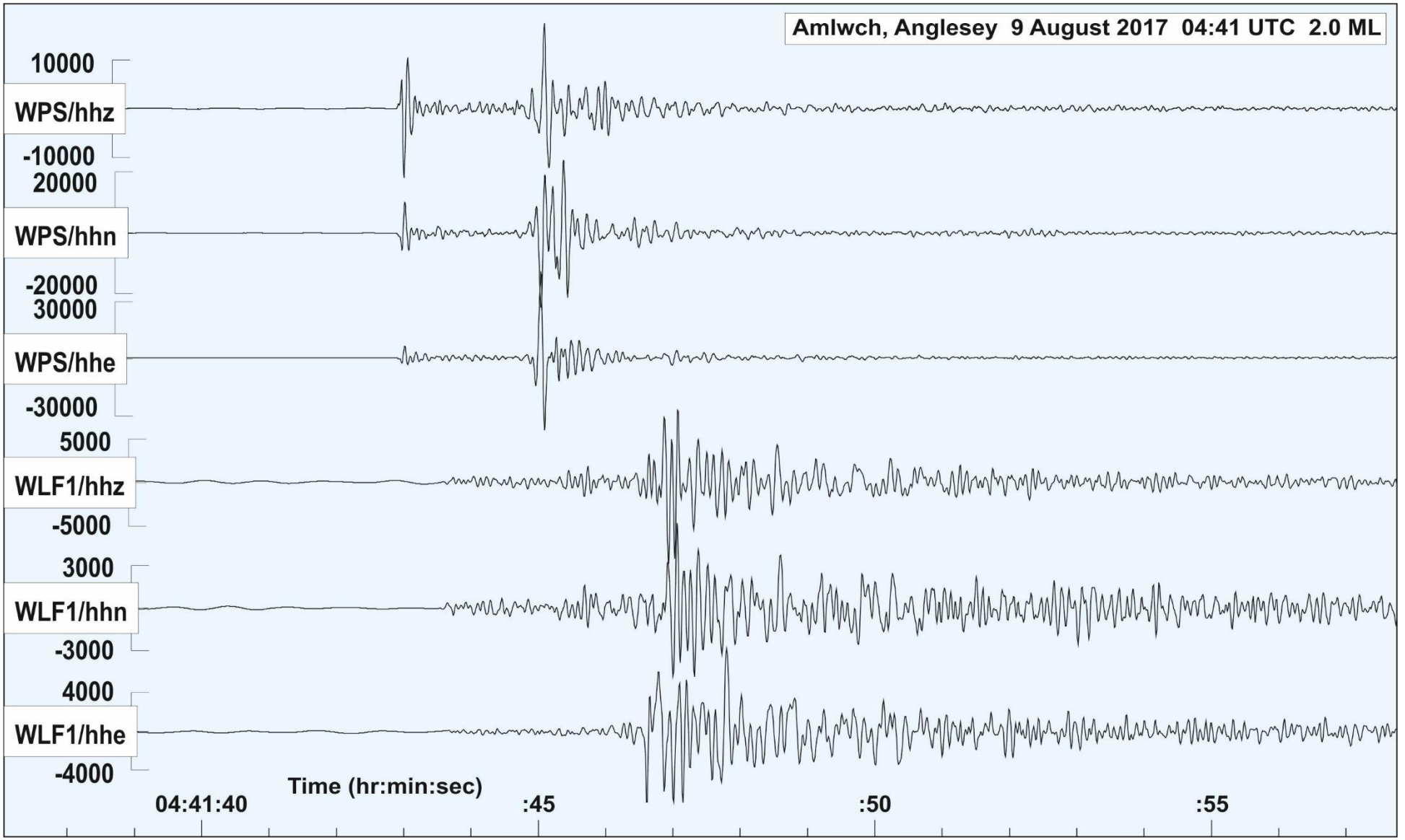

Figure 11. Seismograms of the ground displacement from the magnitude 2.0 ML Amlwch, Anglesey earthquake, 9 August 2017, recorded by BGS seismograph stations.

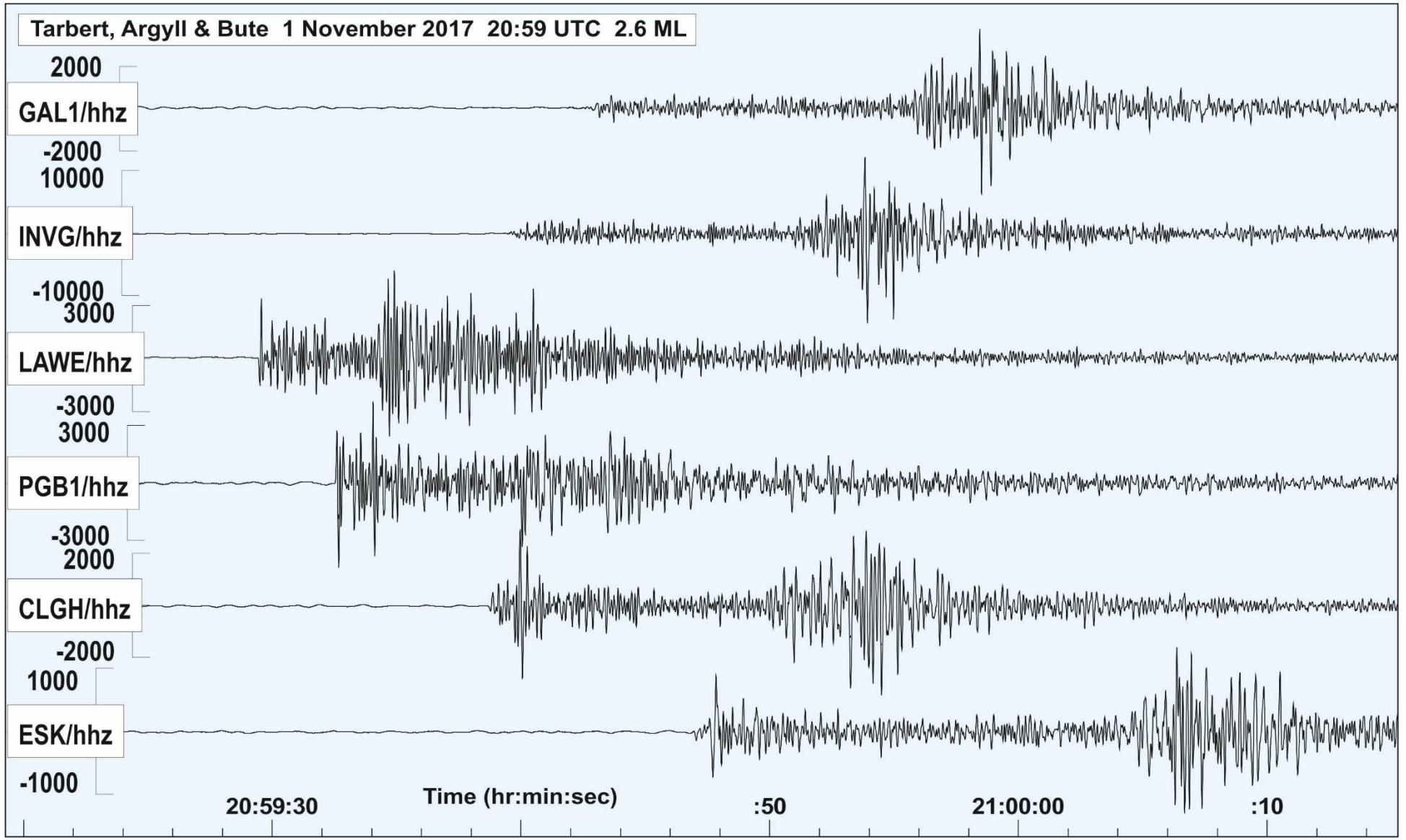

Figure 12. Seismograms of the ground displacement from the magnitude 2.6 ML Tarbert, Argyll & Bute earthquake, 1 November 2017, recorded by BGS seismograph stations.

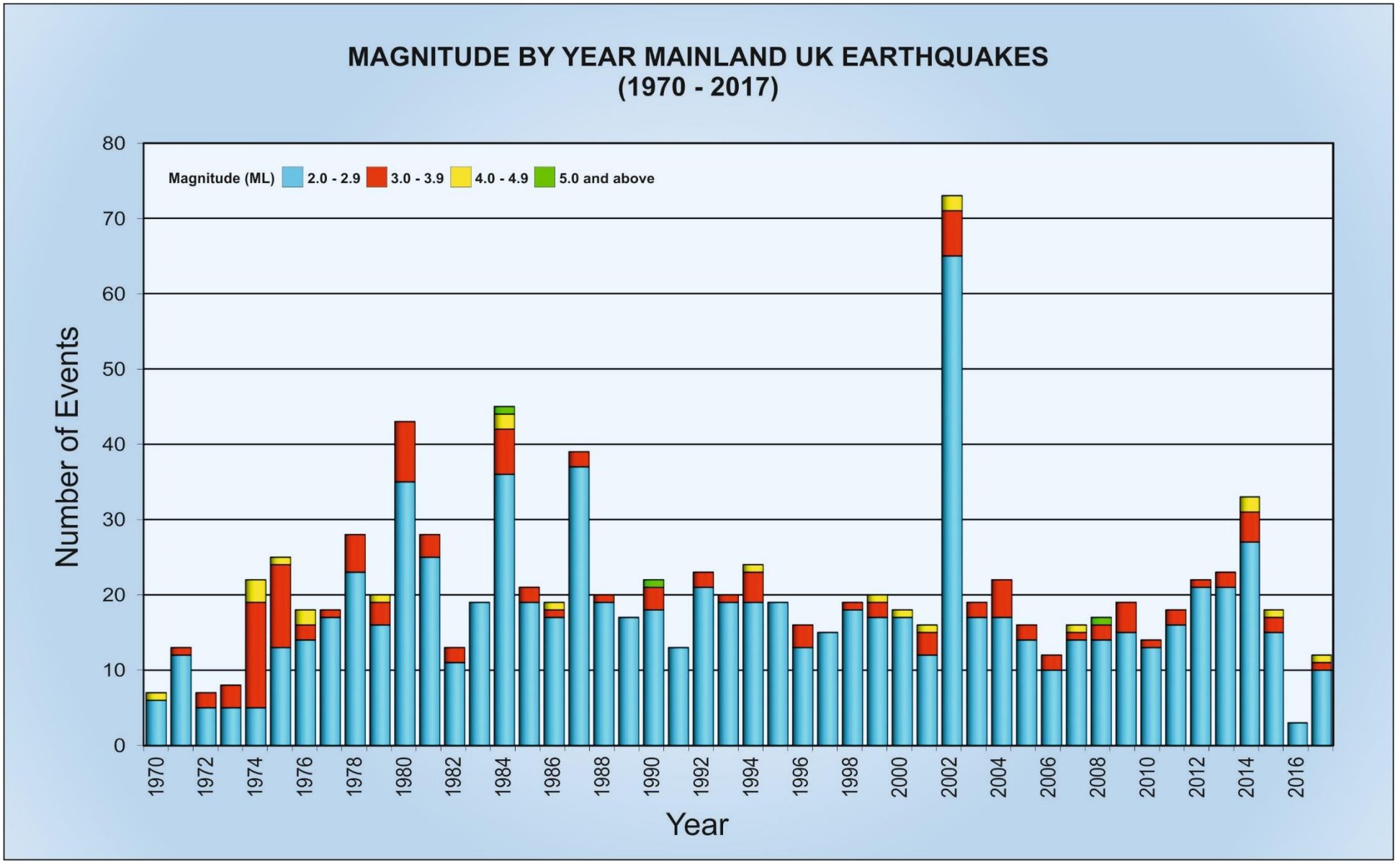

Figure 13. Histogram showing the number of events, magnitude 2.0 ML or greater, detected 1970-2017.

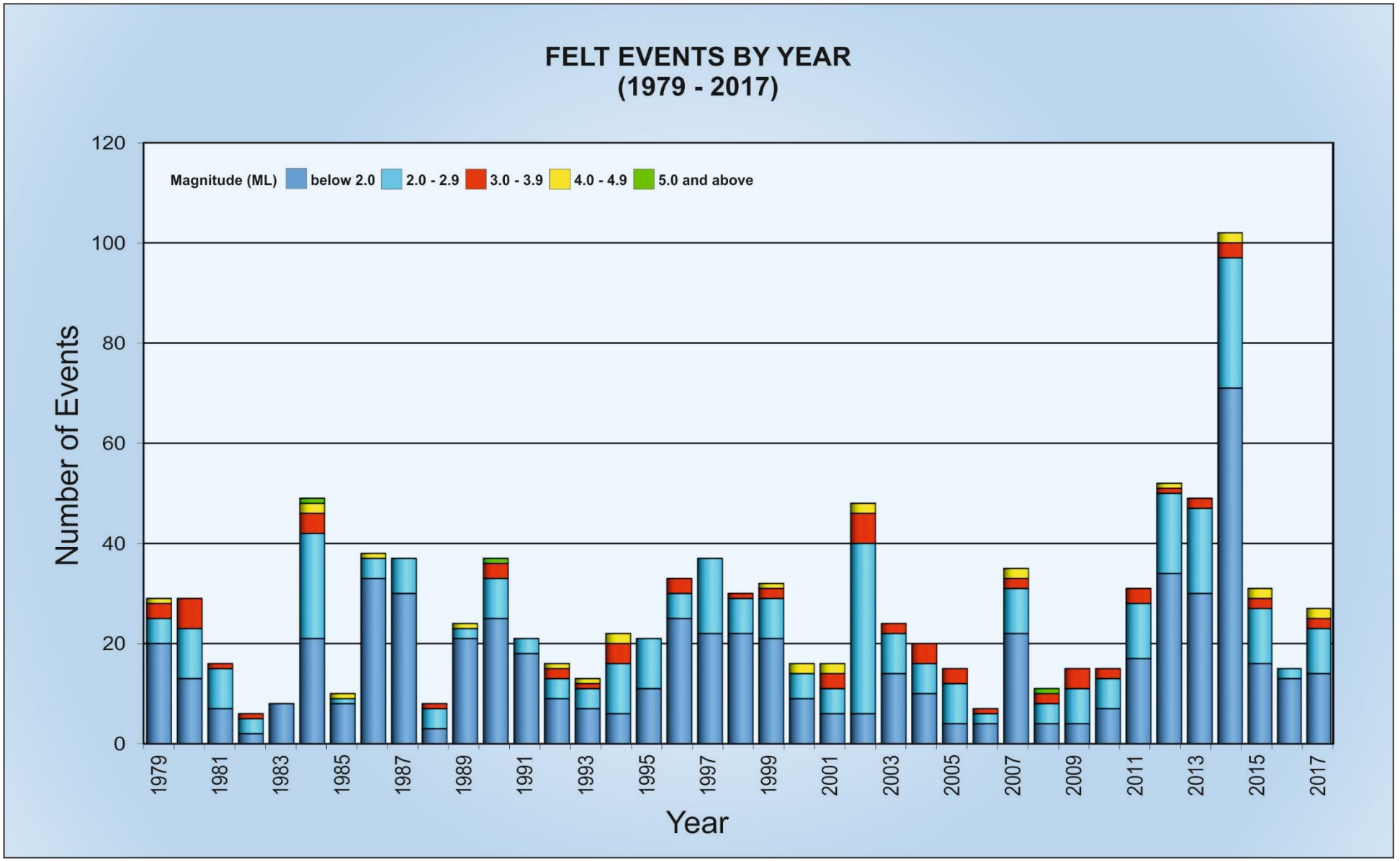

Figure 14. Histogram showing the number of felt events, 1979-2017.

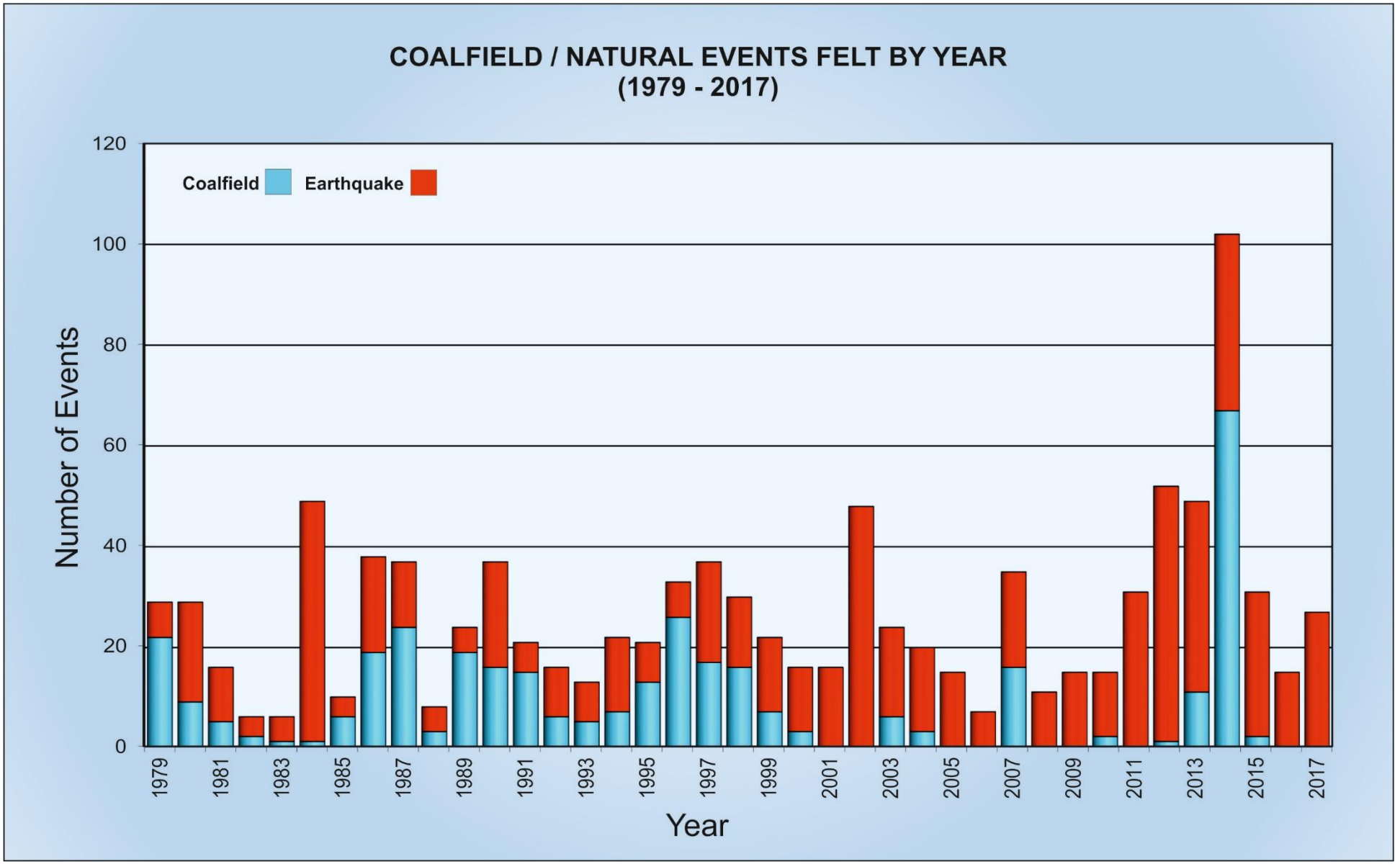

Figure 15. Histogram showing the split between the number of felt events in coalfield areas and those which are natural earthquakes, 1979-2017.

TABLE 1 : CATALOGUE OF EVENTS : 2017

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	Gap	RMS	ERH	ERZ	Comments
20170101	063205.4	52.41	-2.23	384.2	278.7	5.0	0.6	BLAKEDOWN,WORCS		4	212	0.10	5.10	7.30	
20170102	194007.7	54.88	-3.27	318.2	554.9	7.7	0.9	KIRKBRIDE,CUMBRIA		8	74	0.30	3.00	3.30	
20170103	185224.8	54.44	1.96	656.8	512.0	18.7	3.8	SOUTHERN NORTH SEA	2	24	96	0.30	7.41	1.90	FELT SCARBOROUGH
20170106	163334.3	57.20	-5.83	168.8	819.2	9.9	0.8	SKYE,HIGHLAND		4	202	0.10	4.25	3.30	
20170106	230901.7	51.62	-3.16	319.8	192.2	11.7	0.9	YNYSDDU,CAERPHILLY		9	106	0.30	3.58	5.20	
20170108	102645.1	51.65	-1.45	438.3	194.6	16.6	0.9	CHARNEY BASSETT,OXON		5	153	0.20	3.26	4.10	
20170112	135143.8	56.35	-6.20	140.8	725.7	7.2	1.1	MULL,ARGYLL & BUTE		4	166	0.10	1.96	1.30	OFFSHORE LOCATION
20170113	201508.1	54.67	-2.15	390.4	530.6	4.6	0.9	NEWBIGGIN,CO DURHAM		5	123	0.20	3.18	5.10	
20170113	225143.4	52.14	-2.45	369.2	249.1	8.5	0.8	CRADLEY,HEREFORDSHIRE		6	188	0.20	3.75	8.80	
20170115	225859.8	53.03	-4.01	265.0	350.1	7.7	1.0	BEDDGELERT,GWYNEDD	3	8	155	0.30	8.60	1.50	FELT LLANBERIS...
20170117	011623.1	51.63	-3.01	330.2	193.4	6.3	0.5	CWMBRAN,TORFAEN		6	174	0.30	8.79	5.50	
20170120	200930.8	54.71	-3.56	299.8	536.5	3.4	0.4	MARYPORT,CUMBRIA		6	118	0.30	2.98	6.20	
20170121	160047.3	56.36	-5.38	190.9	724.0	3.6	1.2	KILMORE,ARGYLL & BUTE	2	6	154	0.40	6.20	4.80	FELT NORTH CONNEL
20170121	215756.8	51.70	-3.17	318.9	201.0	22.7	1.1	BARGOED,CAERPHILLY		4	290	0.00	1.03	0.80	
20170122	143117.3	51.19	-4.41	231.3	145.9	13.9	0.6	BRISTOL CHANNEL		5	137	0.10	2.82	1.80	15KM WEST WOOLACOMBE
20170122	223306.5	53.70	-1.92	405.3	422.6	4.4	1.0	HALIFAX,WEST YORKSHIRE		9	105	0.20	3.20	2.70	
20170124	052747.3	55.86	-6.52	117.5	672.1	8.4	1.0	ISLAY,ARGYLL & BUTE		4	298	0.40	4.31	6.80	OFFSHORE LOCATION
20170124	163528.9	56.07	-5.25	197.7	690.7	11.0	2.4	LEPHINMORE,ARGYLL/BUTE	3	17	171	0.40	5.73	6.60	FELT LOCHGILPHEAD...
20170125	163215.4	56.05	-5.26	197.1	689.1	9.3	1.4	LEPHINMORE,ARGYLL/BUTE	2	9	133	0.50	0.88	4.40	FELT KILMORY
20170128	023109.1	55.46	-5.13	201.9	623.3	9.9	0.6	ARRAN,NORTH AYRSHIRE		6	113	0.40	4.79	2.40	
20170128	032150.0	56.96	-5.58	182.7	791.5	7.4	1.5	LOCH MORAR,HIGHLAND		9	158	0.70	7.85	4.90	
20170128	034351.0	55.38	-3.37	313.2	610.7	4.6	0.4	BODESBECK,D & G		4	243	0.10	8.46	2.30	
20170128	075051.9	50.81	-4.67	211.7	105.1	2.6	0.4	BUDE,CORNWALL		5	148	0.30	4.78	5.10	8KM WEST BUDE
20170129	004035.9	53.07	-2.13	391.0	352.2	7.5	1.1	ENDON,STAFFORDSHIRE		8	124	0.30	2.30	7.10	
20170131	050159.3	58.15	-5.20	211.6	922.7	14.1	0.5	LOCHINVER,HIGHLAND		4	153	0.10	2.16	1.00	
20170204	012457.9	53.67	-1.98	401.7	419.4	7.5	1.3	RISHWORTH,W YORKSHIRE		8	137	0.40	7.81	4.90	
20170209	092141.3	51.62	-3.20	316.9	192.1	7.5	0.7	YNYSDDU,CAERPHILLY		6	183	0.20	3.26	5.60	
20170210	021346.3	52.42	-2.73	350.1	280.2	7.7	0.3	LUDLOW,SHROPSHIRE		6	132	0.20	2.30	8.10	5KM NNW LUDLOW
20170210	060929.7	56.96	-4.68	237.2	788.5	12.6	0.5	GLEN ROY,HIGHLAND		4	159	0.10	1.66	3.20	
20170210	215506.5	57.70	-4.14	272.5	869.4	6.4	0.6	INVERGORDON,HIGHLAND		5	144	0.20	2.22	4.30	
20170214	230006.0	51.88	-4.59	221.5	223.4	8.1	1.4	LLANBOIDY,CARMARTHS		13	132	0.30	2.69	2.60	
20170216	023832.6	57.63	-6.04	158.7	866.7	7.4	0.2	SOUTH RONA,HIGHLAND		4	176	0.30	4.48	7.50	
20170217	053257.6	53.52	-0.28	514.1	404.6	16.3	1.5	CAISTOR,LINCOLNSHIRE		15	156	0.30	3.77	2.90	
20170217	053929.1	53.50	-0.29	513.2	401.6	17.7	1.3	CAISTOR,LINCOLNSHIRE		12	154	0.20	4.09	2.50	
20170217	211626.8	53.48	-4.18	255.3	400.3	7.4	0.9	AMLWCH,ANGLESEY		8	151	0.30	3.97	4.40	13KM NE AMLWCH
20170217	234113.8	56.82	-5.24	202.3	774.3	11.2	0.6	DUISKY,HIGHLAND		4	148	0.30	4.59	9.70	
20170218	004837.5	52.84	-3.25	315.8	328.3	11.1	1.3	LLANSILIN,POWYS		12	87	0.30	2.98	1.90	
20170218	023652.3	56.28	-4.88	221.5	713.6	4.6	1.7	CAIRNDOW,ARGYLL & BUTE		11	104	0.30	5.46	1.40	
20170218	131951.5	52.19	-2.60	358.6	254.7	6.6	0.6	PENCOMBE,HEREFORDSHIRE		7	173	0.10	1.39	3.30	
20170220	194103.9	53.12	-4.48	234.0	360.9	10.0	0.4	CAERNARFON BAY		7	239	0.30	0.58	3.90	8KM SSW ABERFFRAW
20170222	212023.0	55.90	-5.28	195.1	672.7	18.3	0.4	KAMES,ARGYLL & BUTE		6	139	0.30	5.41	5.40	
20170223	180904.3	57.51	-5.55	187.6	852.3	4.3	0.9	TORRIDON,HIGHLAND		6	114	0.20	3.64	3.80	

TABLE 1 : CATALOGUE OF EVENTS : 2017

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	Gap	RMS	ERH	ERZ	Comments
20170223	233842.4	56.70	-5.08	211.6	760.9	4.5	1.0	GLENCOE,HIGHLAND		6	132	0.30	4.22	3.50	
20170224	084808.8	54.67	-2.59	361.7	530.6	7.9	0.5	CULGAITH,CUMBRIA		5	185	0.20	3.18	3.90	
20170303	092811.0	52.91	-2.15	390.0	334.8	13.1	2.6	STONE,STAFFORDSHIRE	2	21	72	0.40	3.47	4.10	FELT OAKAMOOR
20170304	054441.2	58.15	-5.46	196.6	923.5	2.7	0.8	LOCHINVER,HIGHLAND		4	157	0.20	5.28	6.80	12KM WEST LOCHINVER
20170304	195418.8	53.26	-0.20	520.2	375.1	15.5	1.7	HORNCASTLE,LINCOLNSHIRE		13	147	0.10	1.57	1.30	
20170309	054843.3	54.23	-4.67	226.2	484.9	2.0	0.4	ISLE OF MAN		4	203	0.10	2.77	1.30	
20170309	104734.7	52.70	-2.46	369.1	311.5	4.7	0.3	TELFORD,SHROPSHIRE		4	261	0.10	3.54	2.10	
20170310	050626.8	53.05	-5.51	165.0	356.0	9.2	0.6	IRISH SEA		7	134	0.40	5.50	1.70	
20170312	220754.8	56.61	-5.17	205.4	751.4	8.6	0.6	GLENCOE,HIGHLAND		4	141	0.30	2.95	9.20	
20170313	030712.5	49.95	-1.07	466.6	6.1	5.0	1.6	ENGLISH CHANNEL		9	176	0.20	6.22	0.00	75KM SSE VENTNOR
20170316	062520.3	56.38	-4.26	260.2	723.4	2.4	0.8	LOCHEARNHEAD,STIRLING		4	161	0.40	5.12	9.70	
20170320	020645.8	54.53	-0.79	478.4	516.0	1.8	1.3	HINDERWELL,N YORKSHIRE	3	17	214	0.30	4.56	0.00	FELT HINDERWELL...
20170320	021606.2	54.53	-0.79	478.1	515.5	1.9	1.3	HINDERWELL,N YORKSHIRE	3	15	219	0.40	7.51	0.00	FELT HINDERWELL...
20170320	042427.4	54.51	-0.77	479.8	513.5	1.7	0.8	HINDERWELL,N YORKSHIRE	2	5	293	0.20	7.61	0.00	FELT STAITHES
20170323	024736.4	51.91	-2.31	378.4	224.1	2.3	0.7	HIGHLEADON,GLOS		6	131	0.40	3.69	3.80	
20170328	061205.2	51.97	-2.74	348.9	230.9	3.9	0.8	HEREFORD,HEREFORDSHIRE		6	127	0.20	2.39	3.20	8KM SSW HEREFORD
20170328	091635.4	53.28	-0.56	496.3	377.3	17.1	1.7	SCAMPTON,LINCOLNSHIRE		11	92	0.10	1.57	2.60	
20170331	222443.8	59.75	1.90	619.3	1102.8	11.5	2.4	NORTHERN NORTH SEA		11	136	0.40	7.00	7.10	175KM ESE LERWICK
20170401	211534.8	57.35	-5.86	167.6	835.6	6.5	0.4	APPLECROSS,HIGHLAND		5	160	0.20	2.94	2.10	
20170402	204323.6	57.29	-5.66	179.5	827.9	3.0	0.6	BALMACARA,HIGHLAND		5	151	0.20	3.86	3.10	
20170405	155103.5	53.86	-3.68	289.5	441.9	1.9	0.9	IRISH SEA		7	139	0.20	2.12	1.80	40KM WEST BLACKPOOL
20170407	100458.9	53.07	2.73	717.0	363.4	10.0	2.7	SOUTHERN NORTH SEA		4	284	0.60	6.48	0.00	90KM NE LOWESTOFT
20170409	031646.0	56.47	-5.38	192.0	735.8	7.7	0.6	ACHNACAIRN,ARGYLL/BUTE		3	167	0.10	4.13	8.10	
20170410	044957.7	49.97	-1.25	453.6	8.3	5.0	1.4	ENGLISH CHANNEL		6	288	0.10	5.81	3.50	70KM SSW VENTNOR
20170410	182031.7	57.76	-5.72	179.0	880.3	7.5	0.8	GAIRLOCH,HIGHLAND		4	127	0.20	3.14	7.50	3KM NNW GAIRLOCH
20170411	031905.7	57.75	-5.70	179.7	879.8	7.5	0.7	GAIRLOCH,HIGHLAND		5	126	0.30	3.68	7.80	3KM NNW GAIRLOCH
20170411	160120.1	53.23	0.34	556.2	372.4	13.6	1.7	SKEGNESS,LINCOLNSHIRE		6	218	0.30	6.40	4.10	8KM NORTH SKEGNESS
20170414	002319.6	55.11	-3.65	294.8	581.2	4.3	0.6	DUMFRIES,D & G		5	140	0.30	6.49	5.10	
20170414	030329.8	49.07	-1.71	421.0	-91.8	7.0	1.2	JERSEY,CHANNEL ISLANDS		8	291	0.10	8.78	4.70	25KM SE JERSEY
20170416	143836.4	58.88	1.40	595.9	1004.6	10.2	1.7	CENTRAL NORTH SEA		5	174	0.40	0.30	2.80	200KM SE LERWICK
20170419	122752.9	57.13	-5.68	177.5	810.9	2.5	0.8	LOCH HOURN,HIGHLAND		5	158	0.30	7.89	6.10	7KM WEST ARNISDALE
20170420	022820.2	53.36	-0.62	491.6	385.6	2.2	0.8	SCAMPTON,LINCOLNSHIRE		5	153	0.20	2.42	1.60	13KM NNW LINCOLN
20170422	073412.9	52.34	-1.80	413.9	271.8	7.7	1.0	NUTHURST,WARWICKSHIRE		4	208	0.20	3.98	7.70	
20170427	103832.7	54.77	-3.24	320.4	542.7	4.1	1.7	ASPATRIA,CUMBRIA		9	83	0.20	1.92	5.20	6KM EAST ASPATRIA
20170428	132654.4	52.96	-3.39	306.4	341.1	7.1	1.3	CYNWYD,DENBIGHSHIRE		11	97	0.30	5.37	4.40	
20170503	212642.7	52.54	-1.85	410.2	293.3	7.7	0.7	ERDINGTON,WEST MIDLAND		6	136	0.20	2.47	2.90	
20170507	044741.3	52.98	-1.96	402.7	342.8	11.7	0.5	CHEADLE,STAFFORDSHIRE		6	103	0.10	1.64	2.70	
20170510	102243.3	51.35	2.12	686.8	169.7	6.5	2.0	SOUTHERN NORTH SEA		8	136	0.50	1.11	4.30	50KM EAST RAMSGATE
20170512	173612.3	53.18	-4.51	232.4	367.3	10.7	0.9	ABERFFRAW,ANGLESEY		9	145	0.40	6.26	4.60	
20170515	120430.1	54.78	-3.22	321.5	543.0	4.5	0.9	ASPATRIA,CUMBRIA		5	84	0.20	1.61	0.00	7KM EAST ASPATRIA
20170516	043039.7	53.83	-1.27	448.1	436.8	6.0	1.9	SAXTON,NORTH YORKSHIRE		14	90	0.10	1.39	1.70	
20170517	194427.4	49.67	-2.38	372.7	-25.6	9.0	1.0	ALDERNEY,CHANNEL ISLES		3	206	0.20	2.78	0.00	10KM WSW ALDERNEY

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YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	Gap	RMS	ERH	ERZ	Comments
20170518	001406.8	56.34	-6.07	148.4	723.8	6.2	0.6	MULL,ARGYLL & BUTE		4	192	0.20	4.33	4.60	
20170518	230414.6	53.04	-5.43	170.1	354.9	13.9	0.9	IRISH SEA		8	223	0.30	9.18	7.50	40KM ENE WICKLOW
20170519	231423.5	57.05	-5.74	173.1	801.6	7.5	1.8	KNOYDART,HIGHLAND	3	10	145	0.30	6.57	7.70	FELT KNOYDART...
20170520	035158.1	57.05	-5.74	173.3	801.7	7.5	0.6	KNOYDART,HIGHLAND		5	165	0.30	8.42	9.70	
20170522	153331.6	53.50	-0.90	473.0	401.3	4.8	1.7	HAXEY,NORTH LINCS		12	101	0.30	2.55	6.30	
20170522	215752.6	57.04	-5.74	172.9	800.5	7.7	1.1	KNOYDART,HIGHLAND		10	166	0.40	8.08	6.50	
20170525	020954.7	52.67	-1.86	409.5	308.4	3.0	1.2	LICHFIELD,STAFFORDSHIRE		9	128	0.40	5.41	1.30	
20170526	212606.3	50.63	-3.32	306.4	82.2	8.4	1.2	EXMOUTH,DEVON		6	235	0.30	7.93	8.70	
20170526	215925.8	56.08	-6.03	149.6	694.3	2.5	0.7	JURA,ARGYLL & BUTE		3	239	0.20	0.85	2.20	OFFSHORE LOCATION
20170529	011002.9	53.01	-4.46	234.8	349.2	4.6	1.3	CAERNARFON BAY		9	155	0.40	4.62	5.10	
20170530	221535.9	56.40	-5.66	174.4	729.4	3.5	0.5	MULL,ARGYLL & BUTE		4	225	0.30	1.57	6.80	OFFSHORE LOCATION
20170531	062510.6	49.02	-1.70	422.1	-97.6	7.7	1.0	JERSEY,CHANNEL ISLANDS		3	343	0.00	1.92	0.40	30KM SE JERSEY
20170602	200846.1	56.91	-5.05	214.5	783.5	7.5	2.0	SPEAN BRIDGE,HIGHLAND	3	11	125	0.60	7.26	3.60	FELT SPEAN BRIDGE...
20170603	204450.7	53.36	-3.31	312.9	385.5	15.3	0.5	TALACRE,FLINTSHIRE		7	126	0.30	4.94	6.50	
20170605	131754.7	53.26	-0.44	504.1	374.4	2.7	2.1	LINCOLN,LINCOLNSHIRE	3	10	110	0.10	3.04	7.10	FELT REEPHAM...
20170606	000543.1	56.13	-3.94	279.1	694.5	7.5	1.0	STIRLING,STIRLING		10	70	0.50	4.75	4.10	
20170606	184848.8	52.47	-3.72	283.4	287.4	5.6	1.1	LLANGURIG,POWYS		10	103	0.30	2.01	9.40	10KM NW LLANGURIG
20170610	124639.8	51.40	-2.90	337.7	167.3	12.0	1.3	CLEVEDON,NORTH SOMERSET		9	134	0.10	1.57	1.60	
20170610	143718.2	57.53	-5.43	194.6	854.3	4.9	0.5	TORRIDON,HIGHLAND		5	106	0.10	1.90	1.70	
20170610	230506.7	52.12	-2.36	375.3	247.5	6.5	2.4	MALVERN,WORCESTERSHIRE	3	20	93	0.30	2.82	3.10	FELT MALVERN
20170617	060929.6	53.02	-1.10	460.4	346.8	9.6	1.0	ARNOLD,NOTTINGHAMSHIRE		6	223	0.10	2.73	1.90	
20170617	104751.6	57.45	-5.59	184.8	846.2	4.1	1.0	LOCHCARRON,HIGHLAND		6	119	0.20	3.38	3.40	8KM NW LOCHCARRON
20170625	115308.8	54.15	-2.90	341.3	473.5	5.0	1.7	KENTS BANK,CUMBRIA		20	47	0.20	1.80	4.40	
20170628	144847.1	53.26	-2.88	341.2	373.8	6.8	1.1	ELLESMERE PORT,CHESHIRE		6	106	0.20	1.86	3.70	
20170630	133345.2	58.95	1.87	622.3	1013.6	7.4	4.7	CENTRAL NORTH SEA	3	37	80	0.50	5.64	8.70	FELT LERWICK...
20170706	020920.7	50.00	-2.60	356.6	11.6	5.0	0.9	ENGLISH CHANNEL		5	218	0.70	3.53	0.00	80KM SE DARTMOUTH
20170707	014241.6	58.42	1.58	609.1	953.3	10.7	3.6	CENTRAL NORTH SEA		33	73	0.30	5.19	9.10	220KM ENE PETERHEAD
20170711	012357.7	51.75	-3.03	328.9	206.7	16.4	1.3	LLANOVER,MONMOUTHSHIRE		9	194	0.20	2.08	1.30	
20170711	043555.2	51.58	-3.20	316.9	187.6	12.6	1.1	BEDWAS,CAERPHILLY		7	219	0.20	3.56	3.30	
20170716	102848.7	51.70	-3.23	315.0	200.4	7.5	2.1	BARGOED,CAERPHILLY		12	117	0.20	2.00	5.10	
20170717	210000.0							SONIC-CHANNEL ISLANDS	3						FELT JERSEY/GUERNSEY
20170719	184639.7	52.23	-4.32	241.5	261.7	15.6	1.0	ABERAERON,CEREDIGION		8	131	0.40	4.29	2.00	5KM WEST ABERAERON
20170723	075848.2	57.88	-5.29	204.7	892.2	7.7	2.3	BADRALLACH,HIGHLAND	3	7	105	0.30	3.85	4.40	FELT BADRALLACH...
20170724	215902.5	51.57	-3.21	316.1	186.8	11.1	0.7	CAERPHILLY,CAERPHILLY		7	159	0.20	4.16	3.70	
20170726	200029.4	52.39	-3.70	284.6	278.7	4.3	0.5	LLANGURIG,POWYS		5	126	0.10	0.72	1.90	6KM WEST LLANGURIG
20170727	195526.9	53.03	-2.84	343.9	348.2	12.2	0.8	SHOCKLACK,CHESHIRE		6	134	0.30	3.14	4.30	
20170728	014116.2	54.05	-1.92	405.2	462.0	9.2	0.7	HEBDEN,NORTH YORKSHIRE		6	86	0.20	2.24	3.30	
20170728	171722.8	56.33	-3.64	298.6	716.5	12.1	0.9	ABERTHVEN,PERTH/KINROSS		6	119	0.40	5.10	7.00	
20170729	035405.1	55.88	-5.24	197.3	670.3	10.0	1.1	KAMES,ARGYLL & BUTE		7	135	0.30	4.11	0.80	
20170729	205152.7	52.27	-3.91	269.4	264.9	7.5	1.4	TREGARON,CEREDIGION		11	99	0.50	4.32	4.90	
20170802	021534.3	60.94	3.80	713.8	1242.1	13.9	3.1	NORTHERN NORTH SEA		7	217	0.40	5.96	3.80	285KM ENE LERWICK
20170802	054612.9	55.10	-7.56	45.5	592.3	2.0	1.4	CO DONEGAL,IRELAND	2	6	260	0.60	2.68	0.00	FELT MILFORD

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20170802	174352.4	56.98	-5.09	212.3	791.6	7.5	1.4	GAIRLOCHY,HIGHLAND		7	126	0.30	3.99	8.70	
20170804	021947.6	57.14	-4.07	274.9	806.9	6.6	1.5	KINGUSSIE,HIGHLAND	3	7	100	0.50	5.22	1.90	FELT KINGUSSIE...
20170804	144338.7	56.80	-5.89	162.7	774.9	12.2	4.0	MOIDART,HIGHLAND	5	26	153	0.40	6.60	4.50	FELT MOIDART...
20170804	144534.1	56.80	-5.87	163.8	774.0	10.6	3.4	MOIDART,HIGHLAND	4	11	178	0.30	6.89	4.70	FELT MOIDART...
20170804	152024.0	56.80	-5.87	163.7	774.7	8.8	1.1	MOIDART,HIGHLAND		5	181	0.30	4.57	3.60	
20170804	160726.5	56.79	-5.89	162.3	773.7	8.2	1.2	MOIDART,HIGHLAND		4	221	0.20	6.42	8.50	
20170804	173506.3	56.81	-5.87	163.5	775.1	10.1	2.2	MOIDART,HIGHLAND	3	11	178	0.30	8.54	5.90	FELT MOIDART...
20170805	004953.1	49.36	-2.34	375.5	-59.7	11.0	1.1	JERSEY,CHANNEL ISLANDS		3	191	0.10	8.56	8.00	10KM NW JERSEY
20170805	210502.8	52.27	-2.77	347.4	263.9	7.7	0.8	YARPOLE,HEREFORDSHIRE		7	145	0.30	2.86	3.20	
20170806	020823.7	54.02	0.86	587.4	461.8	10.0	1.5	SOUTHERN NORTH SEA		13	249	0.40	6.40	0.00	
20170809	044139.1	53.51	-4.40	240.7	404.4	9.5	2.0	AMLWCH,ANGLESEY	2	12	138	0.40	8.10	8.90	FELT AMLWCH
20170809	153432.0	50.35	-0.41	512.8	51.4	5.0	2.0	ENGLISH CHANNEL		6	173	0.20	7.05	0.00	55KM SSW BRIGHTON
20170810	124844.6	53.95	-3.34	312.1	450.7	2.5	1.7	IRISH SEA		16	62	0.30	2.50	2.90	20KM WNW FLEETWOOD
20170811	034408.7	53.23	-0.35	510.1	372.1	2.4	1.4	BARDNEY,LINCOLNSHIRE		7	226	0.40	4.52	7.60	
20170814	004335.2	49.25	-2.49	364.2	-72.3	10.1	1.6	JERSEY,CHANNEL ISLANDS		4	138	0.20	8.14	2.80	15KM WEST JERSEY
20170815	102017.5	56.40	-5.59	178.6	729.2	13.1	0.8	KERRERA,ARGYLL & BUTE		5	165	0.10	2.47	1.40	OFFSHORE LOCATION
20170816	022731.7	53.05	-4.52	231.0	353.4	3.0	1.0	CAERNARFON BAY		12	93	0.40	3.99	6.00	
20170820	014242.2	55.66	-5.63	171.5	647.3	12.2	0.7	TAYINLOAN,ARGYLL/BUTE		7	167	0.30	5.79	7.00	
20170825	205652.9	57.20	-5.53	186.7	817.6	4.5	0.6	GLENELG,HIGHLAND		5	148	0.10	2.89	1.70	
20170826	234741.3	59.82	2.20	635.3	1111.4	10.0	2.0	NORTHERN NORTH SEA		6	300	0.20	6.80	0.00	190KM ESE LERWICK
20170829	181041.2	55.79	-6.36	127.0	663.8	8.4	1.3	ISLAY,ARGYLL & BUTE		5	240	0.30	5.57	7.70	
20170830	024347.3	55.13	-5.04	206.0	585.6	7.5	1.1	BALLANTRAE,AYRSHIRE		8	104	0.40	3.74	8.40	OFFSHORE LOCATION
20170902	105730.0	56.08	-5.16	203.3	692.3	11.7	1.0	DUNANS,ARGYLL & BUTE		7	115	0.20	1.94	3.30	
20170907	120841.9	56.78	-5.47	188.1	770.8	11.6	1.3	GLENFINNAN,HIGHLAND		5	156	0.20	4.40	2.40	
20170908	204709.8	52.69	-0.75	484.7	310.5	2.7	1.3	LANGHAM,RUTLAND	3	7	150	0.40	3.86	4.90	FELT OAKHAM...
20170909	030611.1	56.08	-5.50	182.0	693.0	12.7	0.5	CAIRNBAAN,ARGYLL/BUTE		6	157	0.30	4.81	3.00	
20170910	054054.1	56.51	-6.14	145.4	742.7	12.4	0.9	MULL,ARGYLL & BUTE		5	226	0.40	7.62	8.30	
20170910	095245.4	51.69	-4.44	231.4	201.6	8.1	0.6	CARMARTHEN BAY		4	142	0.40	2.47	3.00	
20170911	201559.6	53.31	-1.83	411.3	379.8	1.1	0.7	TIDESWELL,DERBYSHIRE		4	171	0.10	2.77	1.60	COLLAPSE TYPE
20170913	010900.6	57.58	-5.38	197.7	859.9	4.5	0.5	KINLOCHEWE,HIGHLAND		6	107	0.40	6.17	4.40	5KM WSW KINLOCHEWE
20170913	011641.1	53.65	-0.89	473.4	417.8	8.0	1.3	THORNE,SOUTH YORKSHIRE		5	117	0.30	2.95	8.80	6KM NE THORNE
20170913	065040.5	56.14	-5.77	166.0	700.9	4.3	0.5	SCARBA,ARGYLL & BUTE		4	172	0.30	4.92	0.00	OFFSHORE LOCATION
20170914	081446.2	58.75	1.54	604.9	989.7	18.0	3.3	CENTRAL NORTH SEA		23	84	0.50	5.64	0.00	220KM SE LERWICK
20170918	122616.8	56.80	-5.86	164.5	774.1	8.3	1.1	MOIDART,HIGHLAND		5	184	0.30	7.82	2.10	
20170920	043232.3	55.95	-4.83	223.4	676.3	11.6	0.4	GREENOCK,INVERCLYDE		4	157	0.30	3.64	5.70	
20170922	011948.9	49.06	-2.37	372.8	-93.4	6.9	1.9	JERSEY,CHANNEL ISLANDS		6	162	0.20	2.84	2.20	15KM SW JERSEY
20170923	020451.1	52.70	-1.43	438.8	311.5	2.8	0.8	IBSTOCK,LEICESTERSHIRE		7	137	0.30	4.70	7.30	
20170924	014820.1	57.71	-4.25	265.9	871.3	13.8	0.7	ALNESS,HIGHLAND		5	116	0.20	2.51	3.80	
20170924	234220.6	55.87	-5.32	192.6	668.7	14.2	0.4	PORTAVADIE,ARGYLL/BUTE		5	143	0.20	5.67	9.60	
20170925	155620.3	52.70	-1.43	438.4	311.6	2.5	0.8	IBSTOCK,LEICESTERSHIRE		5	162	0.30	3.20	0.00	
20170925	191711.9	52.70	-1.43	438.8	311.5	2.5	0.6	IBSTOCK,LEICESTERSHIRE		5	164	0.30	4.16	4.00	
20170926	011842.1	52.70	-1.43	438.6	311.2	2.6	0.7	IBSTOCK,LEICESTERSHIRE		6	137	0.20	3.76	6.20	

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20170926	043536.4	55.52	-3.06	333.1	625.5	3.5	0.7	ETTRICKBRIDGE,BORDERS		8	147	0.20	2.88	3.40	5KM NW ETTRICKBRIDGE
20170926	134015.5	55.52	-3.06	333.2	626.0	4.2	0.8	ETTRICKBRIDGE,BORDERS		7	148	0.20	2.69	4.00	5KM NW ETTRICKBRIDGE
20170927	013752.6	54.92	-4.02	270.4	559.9	7.5	1.2	RINGFORD,D & G	2	10	80	0.50	4.52	4.30	FELT DALBEATTIE
20170928	010040.4	52.17	-2.58	360.5	252.2	2.5	0.5	PENCOMBE,HEREFORDSHIRE		6	150	0.20	2.10	2.10	
20170928	221848.9	57.24	-5.55	185.6	821.9	5.9	0.7	GLENELG,HIGHLAND		5	148	0.20	4.37	1.90	
20170928	232116.3	52.59	-2.85	342.6	299.0	11.9	0.5	CHURCH STRETTON,SALOP		7	115	0.20	2.10	1.80	
20170929	184215.8	55.52	-3.04	334.7	625.8	3.5	0.9	ETTRICKBRIDGE,BORDERS		8	150	0.20	3.57	3.90	4KM NW ETTRICKBRIDGE
20171004	073500.0							SONIC-SUFFOLK	3	1					FELT SUFFOLK...
20171005	133305.0	58.53	-4.70	242.6	963.3	8.2	0.9	DURNESS,HIGHLAND		4	203	0.60	8.67	4.00	
20171005	175833.3	54.22	-2.82	346.5	480.9	7.2	1.2	ARNSIDE,CUMBRIA		8	102	0.30	2.47	6.30	
20171008	225536.4	56.39	-5.46	186.7	727.2	2.5	1.4	OBAN,ARGYLL & BUTE	2	10	158	0.30	5.41	6.50	FELT MULL
20171009	173647.5	50.60	-2.05	396.7	77.7	6.7	1.9	WORTH MATRAVERS,DORSET		8	253	0.30	8.03	0.00	
20171012	123236.2	55.42	-5.94	150.5	621.1	7.9	1.0	KINTYRE,ARGYLL & BUTE		5	184	0.80	6.79	1.20	OFFSHORE LOCATION
20171013	101543.3	51.85	-3.06	327.1	218.0	14.6	1.0	GOVILON,MONMOUTHSHIRE		3	261	0.10	5.28	2.50	
20171015	132426.0	56.80	-5.86	164.4	774.3	7.7	0.7	MOIDART,HIGHLAND		4	184	0.30	9.08	8.60	
20171018	042152.5	53.06	-4.38	240.5	353.7	12.1	0.8	LLANDWROG,GWYNEDD		7	209	0.30	8.56	6.30	5KM SW LLANDWROG
20171020	091428.5	53.36	-3.02	332.1	385.0	15.7	1.4	BIRKENHEAD,MERSEYSIDE		9	67	0.30	3.19	4.20	
20171022	010553.7	52.98	-1.85	410.3	342.5	7.5	1.6	ELLASTONE,STAFFORDSHIRE		10	64	0.30	3.22	5.70	
20171023	013018.3	55.08	-4.17	261.7	578.8	11.7	0.2	NEW GALLOWAY,D & G		5	129	0.30	9.00	6.80	
20171026	224534.3	57.90	-5.33	203.0	894.4	11.2	0.4	CARNACH,HIGHLAND		4	147	0.30	5.29	7.10	
20171029	230200.9	56.67	-4.25	262.4	755.3	3.0	0.6	RANNOCH,PERTH/KINROSS		4	204	0.10	9.10	1.70	10KM ESE FINNART
20171029	230208.7	56.66	-4.29	259.5	754.2	3.8	1.2	RANNOCH,PERTH/KINROSS		6	122	0.20	2.64	4.10	8KM ESE FINNART
20171030	204147.7	54.96	-2.19	387.8	563.0	3.8	1.2	HEXHAM,NORTHUMBERLAND		5	193	0.20	4.44	5.90	
20171031	155614.8	56.71	-4.25	262.0	760.0	2.7	1.1	RANNOCH,PERTH/KINROSS		7	97	0.40	3.30	5.70	10KM ENE FINNART
20171031	205034.0	52.38	-3.98	265.2	278.1	7.9	0.8	ABERYSTWYTH,CEREDIGION		5	155	0.20	2.78	2.50	7KM EAST ABERYSTWYTH
20171101	205922.0	55.88	-5.43	185.6	670.9	7.5	2.6	TARBERT,ARGYLL & BUTE	3	14	149	0.40	4.90	1.70	FELT TARBERT...
20171103	210311.2	54.14	-0.41	503.9	472.4	17.6	0.8	WOLD NEWTON,E YORKSHIRE		9	282	0.20	3.94	1.60	
20171105	055131.1	52.83	-2.46	368.8	325.5	7.5	1.0	HINSTOCK,SHROPSHIRE		8	105	0.40	3.33	8.80	
20171105	154016.2	53.47	-2.50	366.7	396.7	3.3	1.4	GLAZEBURY,CHESHIRE		10	57	0.30	3.05	8.60	
20171107	084635.7	60.47	4.69	767.2	1194.7	11.3	3.7	NORWEGIAN COAST	3	12	126	0.30	6.55	4.80	FELT HORDALAND
20171107	143356.0	53.04	-4.49	232.8	352.1	15.5	1.4	CAERNARFON BAY		10	93	0.20	2.06	5.40	7KM NW TREFOR
20171107	192329.7	57.53	-5.46	192.6	854.0	7.5	0.9	TORRIDON,HIGHLAND		6	104	0.40	5.32	9.80	
20171109	064607.0	50.71	-4.25	240.9	92.1	5.6	1.1	ASHWATER,DEVON		3	169	0.20	1.84	0.00	
20171114	140434.1	55.66	-3.11	330.0	640.7	5.8	1.5	PEEBLES,BORDERS		10	126	0.30	3.23	3.20	5KM EAST PEEBLES
20171119	004807.2	52.93	-1.82	412.3	337.5	6.5	0.6	WALDLEY,DERBYSHIRE		4	116	0.10	0.72	2.30	
20171121	055407.2	56.01	-4.22	261.8	681.8	7.5	0.8	LENNOXTOWN,E DUNBARTON		9	74	0.20	1.79	4.10	
20171125	084931.6	54.13	-3.38	310.0	471.5	5.3	0.7	WALNEY,CUMBRIA		6	155	0.20	2.64	4.70	OFFSHORE LOCATION
20171127	075331.0	53.83	-2.13	391.2	436.9	12.5	1.0	TRAWDEN,LANCASHIRE		6	109	0.10	3.06	3.80	
20171128	003110.3	55.18	-3.56	300.9	588.0	2.5	1.1	PARKGATE,D & G		11	90	0.40	3.72	4.40	
20171207	094834.6	56.53	-5.43	189.3	742.9	5.9	1.3	BENDERLODH,ARGYLL/BUTE		4	175	0.40	3.65	2.70	4KM NNW BENDERLOCH
20171210	010045.8	56.46	-6.25	138.3	738.2	6.6	0.5	MULL,ARGYLL & BUTE		3	267	0.20	7.53	7.90	OFFSHORE LOCATION
20171212	025142.6	51.78	-2.95	334.5	209.7	13.8	1.4	LLANOVER,MONMOUTHSHIRE		7	236	0.30	8.73	3.90	

TABLE 1 : CATALOGUE OF EVENTS : 2017

YearMoDy	HrMnSecs	Lat	Lon	kmE	kmN	Dep	Mag	Locality	Int	No	Gap	RMS	ERH	ERZ	Comments
20171212	100610.0	54.18	-2.21	386.0	476.1	4.0	1.4	LITTON,NORTH YORKSHIRE		16	130	0.30	1.58	4.30	
20171213	020129.7	55.78	-6.42	122.8	662.7	6.0	0.9	ISLAY,ARGYLL & BUTE		6	209	0.10	3.64	5.50	
20171213	020149.0	55.77	-6.41	123.5	661.9	6.4	0.8	ISLAY,ARGYLL & BUTE		5	209	0.20	3.98	0.00	
20171213	021612.5	55.78	-6.42	123.0	663.0	7.9	1.1	ISLAY,ARGYLL & BUTE		7	209	0.40	8.86	7.20	
20171215	042812.1	57.51	-5.08	215.3	850.5	7.4	1.0	ACHNASHEEN,HIGHLAND		4	203	0.30	8.36	1.50	
20171218	025919.1	56.35	-6.07	148.3	724.8	7.5	0.9	MULL,ARGYLL & BUTE		6	192	0.40	7.12	0.50	
20171219	192152.6	52.42	0.22	550.8	282.4	4.5	1.0	ELY,CAMBRIDGESHIRE		6	135	0.40	3.68	3.90	
20171220	081546.3	56.64	-5.91	160.5	756.6	7.7	1.5	MORVERN,HIGHLAND	3	7	183	0.30	7.64	7.10	FELT LISMORE...
20171222	013946.7	57.19	-4.46	251.5	813.3	7.5	0.5	WHITEBRIDGE,HIGHLAND		6	91	0.30	4.39	9.50	
20171226	062543.9	56.33	-5.43	187.9	720.0	4.4	0.6	KILMORE,ARGYLL & BUTE		5	156	0.20	5.06	1.80	9KM SSE OBAN
20171226	150407.8	52.59	-1.81	412.9	299.3	8.1	1.0	SUTTON,WEST MIDLANDS		6	167	0.20	2.14	4.60	SUTTON COLDFIELD
20171226	224005.8	56.44	-5.74	169.4	733.6	8.8	1.7	MULL,ARGYLL & BUTE	3	7	174	0.20	7.76	6.50	FELT MULL...
20171226	232937.8	53.45	-2.70	353.4	395.6	7.5	1.0	ST HELENS,MERSEYSIDE		10	109	0.30	2.22	6.20	
20171227	115414.0	52.80	1.84	658.7	329.8	5.0	2.1	SOUTHERN NORTH SEA		4	279	0.40	7.28	0.00	11KM OFF NORFOLK
20171229	020302.3	52.02	-3.76	279.1	237.8	7.4	1.0	LLANDOVERY,CARMARTHS		6	240	0.10	4.17	3.40	
20171231	085640.5	50.10	-3.17	316.4	23.0	7.3	1.9	ENGLISH CHANNEL		10	183	0.50	6.45	5.80	40KM SE DARTMOUTH

TABLE 2 : PHASE DATA

January 1 2017 Time: 06:32 05.4 UTC Magnitude: 0.6 ML
Lat: 52.406N Lon: -2.233W Depth: 5.0 km
Grid Ref: 384.15 kmE 278.73 kmN RMS: 0.10 secs
Locality: BLAKEDOWN,WORCS
Velocity model: Lownet Xnear: 100.0 Xfar: 2005.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HLM1	HZ	45.7	EP			06:32	13.54			-0.07
HLM1	HN	45.7	ES			06:32	19.54			-0.04
HLM1	HE	45.7	IAML			06:32	19.70	7	0.32	
HLM1	HN	45.7	IAML			06:32	19.78	8	0.07	
MCH1	HZ	69.3	EP			06:32	17.07			-0.15
MCH1	HN	69.3	ES			06:32	25.81			-0.03
MCH1	HN	69.3	IAML			06:32	27.42	3	0.27	
MCH1	HE	69.3	IAML			06:32	29.52	3	0.21	
LBWR	HZ	116.0	EP			06:32	24.45			-0.02
LPW	HZ	129.0	EP			06:32	26.82			0.32

January 2 2017 Time: 19:40 07.7 UTC Magnitude: 0.9 ML
Lat: 54.882N Lon: -3.275W Depth: 7.7 km
Grid Ref: 318.21 kmE 554.89 kmN RMS: 0.30 secs
Locality: KIRKBRIDE,CUMBRIA
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KESW	HZ	34.5	EP			19:40	13.78			-0.17
KESW	HN	34.5	IAML			19:40	18.61	8	0.18	
KESW	HE	34.5	IAML			19:40	18.78	7	0.20	
ESK	HZ	48.6	EP			19:40	16.16			0.03
ESK	HN	48.6	ES			19:40	21.87			-0.41
ESK	HE	48.6	IAML			19:40	21.93	9	0.10	
ESK	HN	48.6	IAML			19:40	21.98	8	0.12	
NEWG	HZ	66.5	EP			19:40	19.09			0.20
NEWG	HE	66.5	ES			19:40	26.86			-0.18
NEWG	HN	66.5	IAML			19:40	27.15	4	0.11	
NEWG	HE	66.5	IAML			19:40	29.33	5	0.16	
EDMD	HZ	84.5	EP			19:40	22.05			0.40
EDMD	HN	84.5	ES			19:40	31.41			-0.42
EDMD	HN	84.5	IAML			19:40	32.02	34	0.14	
EDMD	HE	84.5	IAML			19:40	32.15	26	0.14	
GAL1	HZ	92.2	EP			19:40	22.91			0.04
GAL1	HE	92.2	ES			19:40	33.72			-0.22
GAL1	HN	92.2	IAML			19:40	34.05	6	0.14	
GAL1	HE	92.2	IAML			19:40	35.64	3	0.10	
EBL	EZ	100.0	EP			19:40	24.62			0.45
IOMK	HZ	108.0	EP			19:40	25.54			0.14
ESY	EZ	123.0	EP			19:40	27.88			0.25

January 3 2017 Time: 18:52 24.8 UTC Magnitude: 3.8 ML
Lat: 54.438N Lon: 1.960W Depth: 18.7 km
Grid Ref: 656.75 kmE 511.97 kmN RMS: 0.30 secs
Locality: SOUTHERN NORTH SEA
Velocity model: North Sea Xnear: 400.0 Xfar: 600.0
Comment: FELT SCARBOROUGH Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
GDLE	HZ	180.0	EP			18:52	51.53			0.62
GDLE	HE	180.0	IAML			18:53	21.67	1524	0.36	
GDLE	HN	180.0	IAML			18:53	21.74	2667	0.30	
LMK	HZ	186.0	EP			18:52	52.01			0.43
LMK	HE	186.0	IAML			18:53	23.15	1210	0.30	
LMK	HN	186.0	IAML			18:53	30.15	968	0.34	
WACR	HZ	210.0	EP			18:52	54.68			0.06
WACR	HN	210.0	ES			18:53	16.37			-0.00
WACR	HN	210.0	IAML			18:53	17.94	897	0.20	
WACR	HE	210.0	IAML			18:53	23.50	440	0.18	
EDMD	HZ	257.0	EP			18:53	00.55			0.12
EDMD	HN	257.0	IAML			18:53	28.73	670	0.20	
EDMD	HE	257.0	IAML			18:53	28.81	798	0.20	
ELMS	HZ	269.0	EP			18:53	02.00			0.08
ELMS	HN	269.0	IAML			18:53	46.13	682	0.30	
ELMS	HE	269.0	IAML			18:53	51.46	971	0.46	
ESK	HZ	346.0	EP			18:53	11.45			-0.02
FOEL	HZ	382.0	EP			18:53	15.80			-0.21
FOEL	HN	382.0	IAML			18:54	27.24	236	0.52	
FOEL	HE	382.0	IAML			18:54	28.44	228	0.88	
EDU	EZ	392.0	EP			18:53	17.42			0.15
NEWG	HZ	405.0	EP			18:53	18.79			-0.08
STRD	HZ	405.0	EP			18:53	18.60			-0.22
STRD	HN	405.0	IAML			18:54	36.99	253	0.54	
STRD	HE	405.0	IAML			18:54	39.53	304	0.68	
SWN1	HZ	412.0	EP			18:53	19.89			0.20
SWN1	HN	412.0	IAML			18:54	40.12	182	0.82	
SWN1	HE	412.0	IAML			18:54	45.64	214	0.72	
LLW	BZ	412.0	EP			18:53	19.41			-0.26
IOMK	HZ	425.0	EP			18:53	20.75			-0.53
MCH1	HZ	428.0	EP			18:53	21.42			-0.30
MCH1	HE	428.0	IAML			18:54	04.52	116	0.20	
MCH1	HN	428.0	IAML			18:54	04.90	140	0.24	
WPS	HZ	440.0	EP			18:53	23.19			0.07
WPS	HE	440.0	IAML			18:54	09.61	38	0.25	
WPS	HN	440.0	IAML			18:54	10.70	50	0.33	
MCD	EZ	478.0	EP			18:53	27.70			-0.18
HGN	BZ	489.0	EP			18:53	29.22			-0.09
MUD	HZ	508.0	EP			18:53	31.63			-0.05
MDO	EZ	517.0	EP			18:53	32.57			-0.24
RSBS	HZ	526.0	EP			18:53	33.06			-0.85
MLA1	EZ	542.0	EP			18:53	35.27			-0.54
KPL	HZ	575.0	EP			18:53	39.91			-0.04
KPL	HN	575.0	IAML			18:54	36.73	45	0.18	
KPL	HE	575.0	IAML			18:54	38.01	57	0.22	
LINV	HZ	605.0	EP			18:53	43.12			-0.58
LINV	HE	605.0	IAML			18:54	42.95	24	0.20	
LINV	HN	605.0	IAML			18:54	45.26	30	0.16	
LEWI	HZ	684.0	EP			18:53	52.65			-0.88
LEWI	HN	684.0	IAML			18:54	58.03	35	0.22	
LEWI	HE	684.0	IAML			18:54	59.95	33	0.66	

January 6 2017 Time: 16:33 34.3 UTC Magnitude: 0.8 ML
Lat: 57.205N Lon: -5.829W Depth: 9.9 km
Grid Ref: 168.77 kmE 819.17 kmN RMS: 0.10 secs
Locality: SKYE,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	18.3	IP		D	16:33	37.95			-0.05
KPL	HE	18.3	ES			16:33	40.59			-0.14
KPL	HE	18.3	IAML			16:33	40.76	11	0.10	
KPL	HN	18.3	IAML			16:33	40.96	12	0.33	
LINV	HZ	111.0	EP			16:33	52.58			0.19
LINV	HE	111.0	ES			16:34	05.75			0.13
LINV	HE	111.0	IAML			16:34	08.09	5	0.10	
LINV	HN	111.0	IAML			16:34	08.29	4	0.25	
LEWI	HZ	122.0	EP			16:33	53.91			0.03
LEWI	HN	122.0	ES			16:34	08.08			-0.13
LEWI	HN	122.0	IAML			16:34	08.46	2	0.30	
LEWI	HE	122.0	IAML			16:34	09.72	3	0.21	
INVG	HZ	139.0	EP			16:33	56.50			0.09
INVG	HE	139.0	ES			16:34	12.49			-0.09
INVG	HE	139.0	IAML			16:34	13.54	2	0.13	
INVG	HN	139.0	IAML			16:34	14.16	2	0.19	

January 6 2017 Time: 23:09 01.7 UTC Magnitude: 0.9 ML
Lat: 51.622N Lon: -3.159W Depth: 11.7 km
Grid Ref: 319.77 kmE 192.15 kmN RMS: 0.30 secs
Locality: YNYSDDU,CAERPHILLY
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH1	HZ	43.2	EP			23:09	09.22			-0.14
MCH1	HE	43.2	ES			23:09	14.97			0.05
MCH1	HN	43.2	IAML			23:09	15.06	6	0.09	
MCH1	HE	43.2	IAML			23:09	15.09	11	0.11	
LPW	HE	83.1	ES			23:09	25.92			0.37
LPW	HE	83.1	IAML			23:09	26.11	1	0.12	
LPW	HN	83.1	IAML			23:09	26.26	1	0.32	
SWN1	HZ	95.0	EP			23:09	17.52			0.16
SWN1	HE	95.0	IAML			23:09	30.39	8	0.22	
SWN1	HN	95.0	IAML			23:09	30.40	20	0.25	
HLM1	HZ	102.0	EP			23:09	18.14			-0.28
HLM1	HE	102.0	ES			23:09	30.40			-0.19
HLM1	HE	102.0	IAML			23:09	33.05	4	0.24	
HLM1	HN	102.0	IAML			23:09	33.29	4	0.26	
RSBS	HZ	115.0	EP			23:09	20.19			-0.19
RSBS	HE	115.0	ES			23:09	33.54			-0.45
RSBS	HN	115.0	IAML			23:09	35.50	3	0.06	
RSBS	HE	115.0	IAML			23:09	36.32	4	0.08	
HTL	HZ	116.0	EP			23:09	20.55			0.15
LLW	BN	141.0	ES			23:09	40.70			0.48
FOEL	HN	141.0	ES			23:09	40.86			0.49
DYA	HE	143.0	EP			23:09	24.46			0.18
DYA	HZ	143.0	ES			23:09	40.69			-0.05
DYA	HZ	143.0	IAML			23:09	41.32	3	0.20	
DYA	HN	143.0	IAML			23:09	42.34	2	0.10	

January 8 2017 Time: 10:26 45.1 UTC Magnitude: 0.9 ML
Lat: 51.648N Lon: -1.446W Depth: 16.6 km
Grid Ref: 438.33 kmE 194.55 kmN RMS: 0.20 secs
Locality: CHARNEY BASSETT,OXON
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
SWN1	HZ	28.7	EP			10:26	50.44			-0.28
SWN1	HN	28.7	ES			10:26	55.01			0.15
SWN1	HN	28.7	IAML			10:26	55.20	76	0.13	
SWN1	HE	28.7	IAML			10:26	55.28	27	0.18	
WOL	BN	40.3	ES			10:26	57.77			0.01
WOL	BE	40.3	IAML			10:26	58.98	6	0.25	
WOL	BN	40.3	IAML			10:26	59.08	6	0.30	
MCH1	HZ	114.0	EP			10:27	03.15			-0.01
MCH1	HN	114.0	ES			10:27	16.33			-0.05
MCH1	HE	114.0	IAML			10:27	16.72	3	0.17	
MCH1	HN	114.0	IAML			10:27	16.72	3	0.27	
CWF	HZ	122.0	EP			10:27	04.56			0.28

TABLE 2 : PHASE DATA

CWF	HE	122.0	ES		10:27	18.13			-0.19
CWF	HE	122.0	IAML		10:27	19.59	3	0.17	
CWF	HN	122.0	IAML		10:27	20.75	2	0.12	
HLM1	HZ	138.0	EP		10:27	06.89			0.23
HLM1	HN	138.0	ES		10:27	22.46			0.03
HLM1	HN	138.0	IAML		10:27	23.73	2	0.11	
HLM1	HE	138.0	IAML		10:27	23.77	2	0.16	

January 12 2017 Time: 13:51 43.8 UTC Magnitude: 1.1 ML
Lat: 56.353N Lon: -6.196W Depth: 7.2 km
Grid Ref: 140.81 kmE 725.75 kmN RMS: 0.10 secs
Locality: MULL,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	115.0	EP			13:52	03.16			-0.09
KPL	HE	115.0	ES			13:52	17.53			0.07
KPL	HE	115.0	IAML			13:52	18.18	6	0.40	
KPL	HN	115.0	IAML			13:52	19.24	4	0.21	
INVG	HZ	133.0	EP			13:52	06.16			-0.01
INVG	HN	133.0	ES			13:52	22.48			-0.02
INVG	HE	133.0	IAML			13:52	23.55	3	0.07	
INVG	HN	133.0	IAML			13:52	23.70	4	0.10	
CLGH	HZ	142.0	EP			13:52	07.54			0.18
CLGH	HE	142.0	ES			13:52	24.55			-0.02
CLGH	HE	142.0	IAML			13:52	25.76	6	0.28	
CLGH	HN	142.0	IAML			13:52	26.58	7	0.19	
IDGL	BZ	165.0	EP			13:52	10.48			-0.21

January 13 2017 Time: 20:15 08.1 UTC Magnitude: 0.9 ML
Lat: 54.670N Lon: -2.149W Depth: 4.6 km
Grid Ref: 390.39 kmE 530.57 kmN RMS: 0.20 secs
Locality: NEWBIGGIN,CO DURHAM
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
EDMD	HZ	21.6	IP		C	20:15	12.20			-0.01
EDMD	HE	21.6	ES			20:15	15.12			-0.12
EDMD	HN	21.6	IAML			20:15	15.25	21	0.12	
EDMD	HE	21.6	IAML			20:15	15.38	122	0.22	
KESW	HZ	62.4	EP			20:15	18.93			0.10
KESW	HE	62.4	ES			20:15	26.46			-0.24
KESW	HE	62.4	IAML			20:15	27.03	5	0.25	
KESW	HN	62.4	IAML			20:15	27.08	5	0.16	
HPK	HN	86.2	ES			20:15	33.06			-0.01
HPK	HE	86.2	IAML			20:15	33.44	8	0.17	
HPK	HN	86.2	IAML			20:15	33.71	9	0.34	
ESK	HZ	98.8	EP			20:15	24.80			0.33
ESK	HE	98.8	ES			20:15	36.38			-0.07
ESK	HN	98.8	IAML			20:15	37.26	2	0.14	
ESK	HE	98.8	IAML			20:15	37.71	1	0.18	
IOMK	HE	163.0	ES			20:15	53.10			0.12

January 13 2017 Time: 22:51 43.4 UTC Magnitude: 0.8 ML
Lat: 52.139N Lon: -2.450W Depth: 8.5 km
Grid Ref: 369.21 kmE 249.11 kmN RMS: 0.20 secs
Locality: CRADLEY,HEREFORDSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH1	HZ	40.8	EP			22:51	50.53			-0.13
MCH1	HN	40.8	ES			22:51	55.76			-0.16
MCH1	HN	40.8	IAML			22:51	56.01	10	0.14	
MCH1	HE	40.8	IAML			22:51	56.07	6	0.34	
MONM	HZ	41.3	EP			22:51	50.81			0.09
MONM	HE	41.3	ES			22:51	56.09			0.06
MONM	HE	41.3	IAML			22:51	56.39	14	0.32	
MONM	HN	41.3	IAML			22:51	56.47	12	0.14	
STRD	HZ	44.9	EP			22:51	51.13			-0.17
STRD	HE	44.9	ES			22:51	57.08			0.06
STRD	HN	44.9	IAML			22:51	57.41	8	0.13	
STRD	HE	44.9	IAML			22:51	57.49	12	0.11	
HLM1	HZ	51.5	EP			22:51	52.26			-0.09
HLM1	HN	51.5	ES			22:51	58.68			-0.17
HLM1	HN	51.5	IAML			22:51	58.97	6	0.28	
HLM1	HE	51.5	IAML			22:51	58.97	10	0.34	
LLW	BZ	114.0	EP			22:52	02.52			0.48
LLW	BN	114.0	ES			22:52	15.68			0.06
RSBS	HZ	159.0	EP			22:52	09.15			0.67

January 15 2017 Time: 22:58 59.8 UTC Magnitude: 1.0 ML
Lat: 53.031N Lon: -4.014W Depth: 7.7 km
Grid Ref: 264.96 kmE 350.12 kmN RMS: 0.30 secs
Locality: BEDDGELERT,GWYNEDD
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: FELT LLANBERIS... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WLF1	HZ	38.5	IP		D	22:59	07.01			0.40
WLF1	HN	38.5	ES			22:59	11.61			0.02
WLF1	HN	38.5	IAML			22:59	11.81	30	0.10	
WLF1	HE	38.5	IAML			22:59	11.92	22	0.06	
YRC	EZ	44.8	EP			22:59	06.82			-0.77
WME	EZ	45.1	IP		D	22:59	07.45			-0.20
WME	EZ	45.1	ES			22:59	13.13			-0.25
WPS	HZ	52.3	EP			22:59	09.33			0.58
WPS	HN	52.3	ES			22:59	15.39			0.10
WPS	HN	52.3	IAML			22:59	15.76	6	0.17	
WPS	HE	52.3	IAML			22:59	15.87	6	0.14	
FOEL	HZ	56.9	EP			22:59	09.64			0.09
FOEL	HE	56.9	ES			22:59	16.55			-0.12
FOEL	HN	56.9	IAML			22:59	17.60	4	0.36	
FOEL	HE	56.9	IAML			22:59	17.68	8	0.12	
HLM1	HZ	95.4	EP			22:59	15.63			0.12
HLM1	HE	95.4	ES			22:59	26.88			-0.10
HLM1	HN	95.4	IAML			22:59	30.99	7	0.19	
HLM1	HE	95.4	IAML			22:59	30.99	4	0.14	
MCH1	HZ	134.0	EP			22:59	21.34			0.02
MCH1	HE	134.0	ES			22:59	36.86			-0.18
MCH1	HN	134.0	IAML			22:59	38.47	5	0.17	
MCH1	HE	134.0	IAML			22:59	38.99	8	0.13	
MONM	HZ	156.0	EP			22:59	24.74			0.29

January 17 2017 Time: 01:16 23.1 UTC Magnitude: 0.5 ML
Lat: 51.635N Lon: -3.008W Depth: 6.3 km
Grid Ref: 330.25 kmE 193.44 kmN RMS: 0.30 secs
Locality: CWMBRAN,TORFAEN
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MONM	HZ	26.7	EP			01:16	27.96			-0.22
MONM	HE	26.7	ES			01:16	32.10			0.22
MONM	HE	26.7	IAML			01:16	32.33	13	0.08	
MONM	HN	26.7	IAML			01:16	32.69	11	0.24	
MCH1	HZ	40.3	EP			01:16	29.89			-0.44
MCH1	HE	40.3	ES			01:16	35.55			-0.05
MCH1	HE	40.3	IAML			01:16	35.75	8	0.28	
MCH1	HN	40.3	IAML			01:16	35.78	5	0.18	
HLM1	HZ	98.6	EP			01:16	39.79			0.37
HLM1	HE	98.6	ES			01:16	51.35			0.03
HLM1	HN	98.6	IAML			01:16	56.00	1	0.22	
HLM1	HE	98.6	IAML			01:16	56.08	1	0.21	
HTL	HZ	125.0	EP			01:16	43.57			0.10
RSBS	HZ	125.0	EP			01:16	43.57			0.11
DYA	HZ	148.0	EP			01:16	46.46			-0.36
DYA	HE	148.0	ES			01:17	04.41			0.28
DYA	HN	148.0	ES			01:17	04.45			

January 20 2017 Time: 20:09 30.8 UTC Magnitude: 0.4 ML
Lat: 54.713N Lon: -3.555W Depth: 3.4 km
Grid Ref: 299.83 kmE 536.45 kmN RMS: 0.30 secs
Locality: MARYPORT,CUMBRIA
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KESW	HZ	32.2	EP			20:09	36.58			-0.16
KESW	HN	32.2	ES			20:09	40.84			-0.26
KESW	HN	32.2	IAML			20:09	40.92	3	0.16	
KESW	HE	32.2	IAML			20:09	41.51	3	0.30	
NEWG	HZ	62.4	EP			20:09	41.91			0.31
NEWG	HN	62.4	ES			20:09	49.46			-0.05
NEWG	HE	62.4	IAML			20:09	50.35	1	0.06	
NEWG	HN	62.4	IAML			20:09	50.49	2	0.29	
ESK	HZ	70.8	EP			20:09	43.03			0.11
ESK	HE	70.8	ES			20:09	51.51			-0.28
ESK	HE	70.8	IAML			20:09	52.16	2	0.17	
ESK	HN	70.8	IAML			20:09	54.16	1	0.09	
GAL1	HZ	76.3	EP			20:09	44.01			0.26
GAL1	HN	76.3	ES			20:09	52.81			-0.42
IOMK	HZ	82.7	EP			20:09	44.62			-0.13
IOMK	HE	82.7	ES			20:09	55.08			0.12
EDMD	HZ	103.0	EP			20:09	48.46			0.55
EDMD	HN	103.0	ES			20:10	00.42			-0.01
EDMD	HN	103.0	IAML			20:10	01.25	7	0.14	
EDMD	HE	103.0	IAML			20:10	01.88	7	0.17	

January 21 2017 Time: 16:00 47.3 UTC Magnitude: 1.2 ML
Lat: 56.362N Lon: -5.385W Depth: 3.6 km
Grid Ref: 190.93 kmE 723.99 kmN RMS: 0.40 secs
Locality: KILMORE,ARGYLL & BUTE
Velocity model: Lownet Xnear: 75.0 Xfar: 150.0
Comment: FELT NORTH CONNEL Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	11.4	IP		D	16:00	49.82			-0.03
LAWE	HN	11.4	ES			16:00	51.44			-0.30
LAWE	HN	11.4	IAML			16:00	51.58	117	0.10	
LAWE	HE	11.4	IAML			16:00	51.64	121	0.14	
PGB1	HZ	83.1	EP			16:01	02.15			0.61
PGB1	HE	83.1	ES			16:01	12.34			0.37
PGB1	HE	83.1	IAML			16:01	13.79	5	0.40	
PGB1	HN	83.1	IAML			16:01	14.10	8	0.12	
INVG	HZ	83.1	EP			16:01	00.97			-0.59
INVG	HN	83.1	ES			16:01	11.84			-0.16

TABLE 2 : PHASE DATA

INVG	HE	83.1	IAML		16:01	13.73	10	0.10
INVG	HN	83.1	IAML		16:01	13.95	20	0.10
KPL	HZ	110.0	EP		16:01	05.86		0.18
KPL	HE	110.0	ES		16:01	19.43		0.31
KPL	HN	110.0	IAML		16:01	21.29	4	0.21
KPL	HE	110.0	IAML		16:01	21.46	9	0.22
MDO	EZ	135.0	EP		16:01	09.87		0.22
CLGH	HZ	150.0	EP		16:01	11.46		-0.19
CLGH	HN	150.0	IAML		16:01	30.75	4	0.22
CLGH	HE	150.0	IAML		16:01	31.18	4	0.25

January 21 2017 Time: 21:57 56.8 UTC Magnitude: 1.1 ML
Lat: 51.701N Lon: -3.174W Depth: 22.7 km
Grid Ref: 318.88 kmE 200.95 kmN RMS: 0.00 secs
Locality: BARGOED,CAERPHILLY
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MONM	HZ	29.8	EP			21:58	03.03			0.03
MONM	HE	29.8	ES			21:58	07.50			-0.02
MONM	HE	29.8	IAML			21:58	07.66	17	0.28	
MONM	HN	29.8	IAML			21:58	08.00	24	0.14	
MCH1	HZ	35.1	EP			21:58	03.70			-0.01
MCH1	HE	35.1	ES			21:58	08.74			0.01
MCH1	HE	35.1	IAML			21:58	08.93	13	0.20	
MCH1	HN	35.1	IAML			21:58	09.11	13	0.06	
STRD	HZ	70.3	EP			21:58	08.55			-0.05
STRD	HN	70.3	ES			21:58	17.23			0.03
STRD	HN	70.3	IAML			21:58	17.37	14	0.16	
STRD	HE	70.3	IAML			21:58	17.40	18	0.12	
HLM1	HZ	93.2	EP			21:58	11.93			0.03
HLM1	HE	93.2	ES			21:58	22.88			-0.02
HLM1	HE	93.2	IAML			21:58	23.13	6	0.22	
HLM1	HN	93.2	IAML			21:58	24.87	4	0.24	

January 22 2017 Time: 14:31 17.3 UTC Magnitude: 0.6 ML
Lat: 51.187N Lon: -4.414W Depth: 13.9 km
Grid Ref: 231.32 kmE 145.91 kmN RMS: 0.10 secs
Locality: BRISTOL CHANNEL
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 15KM WEST WOOLACOMBE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HTL	HZ	22.0	EP			14:31	21.91			0.04
HTL	HN	22.0	ES			14:31	25.17			-0.00
HTL	HN	22.0	IAML			14:31	25.37	10	0.22	
HTL	HE	22.0	IAML			14:31	25.91	13	0.17	
RSBS	HZ	88.2	EP			14:31	31.71			-0.25
RSBS	HE	88.2	ES			14:31	42.84			0.21
RSBS	HE	88.2	IAML			14:31	43.95	1	0.07	
RSBS	HN	88.2	IAML			14:31	44.00	1	0.08	
DYA	HZ	90.3	EP			14:31	32.17			-0.08
DYA	HN	90.3	ES			14:31	43.25			0.11
DYA	HE	90.3	IAML			14:31	43.39	2	0.14	
DYA	HN	90.3	IAML			14:31	44.28	2	0.18	
CCA1	HE	125.0	ES			14:31	51.70			-0.05
CCA1	HE	125.0	IAML			14:31	51.83	2	0.22	
CCA1	HN	125.0	IAML			14:31	52.41	2	0.41	
MCH1	HE	133.0	ES			14:31	53.70			-0.03
MCH1	HN	133.0	IAML			14:31	54.77	1	0.16	
MCH1	HE	133.0	IAML			14:31	55.54	2	0.17	

January 22 2017 Time: 22:33 06.5 UTC Magnitude: 1.0 ML
Lat: 53.700N Lon: -1.919W Depth: 4.4 km
Grid Ref: 405.35 kmE 422.65 kmN RMS: 0.20 secs
Locality: HALIFAX,WEST YORKSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HPK	HZ	34.6	EP			22:33	12.87			-0.01
HPK	HE	34.6	ES			22:33	17.34			-0.20
HPK	HE	34.6	IAML			22:33	17.83	49	0.21	
HPK	HN	34.6	IAML			22:33	17.84	49	0.17	
LBWR	HZ	35.6	IP		D	22:33	13.07			0.00
LBWR	HN	35.6	ES			22:33	17.86			-0.01
LBWR	HE	35.6	IAML			22:33	18.65	12	0.22	
LBWR	HN	35.6	IAML			22:33	18.67	18	0.08	
AU07	HZ	77.9	EP			22:33	19.86			0.21
AU07	HE	77.9	ES			22:33	28.98			-0.27
AU11	HZ	85.2	EP			22:33	21.14			0.38
AU11	HE	85.2	ES			22:33	31.42			0.25
AT10	HE	89.0	ES			22:33	32.08			-0.22
AT10	HE	89.0	IAML			22:33	33.50	8	0.26	
AT10	HN	89.0	IAML			22:33	33.59	8	0.24	
CWF	HZ	115.0	EP			22:33	25.23			-0.11
CWF	HE	115.0	IAML			22:33	39.61	2	0.12	
CWF	HN	115.0	IAML			22:33	41.10	1	0.22	
FOEL	HN	124.0	ES			22:33	41.74			-0.05
FOEL	HN	124.0	IAML			22:33	42.50	4	0.58	
FOEL	HE	124.0	IAML			22:33	42.68	3	0.58	
KESW	HZ	126.0	EP			22:33	27.16			0.08
HLM1	HN	146.0	ES			22:33	47.15			-0.23
HLM1	HN	146.0	IAML			22:33	48.78	1	0.24	
HLM1	HE	146.0	IAML			22:33	49.91	1	0.18	

January 24 2017 Time: 05:27 47.3 UTC Magnitude: 1.0 ML
Lat: 55.859N Lon: -6.516W Depth: 8.4 km
Grid Ref: 117.46 kmE 672.09 kmN RMS: 0.40 secs
Locality: ISLAY,ARGYLL & BUTE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	82.6	EP			05:28	00.69			-0.34
LAWE	HN	82.6	ES			05:28	11.15			0.12
LAWE	HE	82.6	IAML			05:28	14.37	6	0.22	
LAWE	HN	82.6	IAML			05:28	15.80	5	0.12	
PGB1	HE	127.0	ES			05:28	22.71			0.16
PGB1	HN	127.0	IAML			05:28	24.41	4	0.22	
PGB1	HE	127.0	IAML			05:28	24.45	6	0.46	
NEWG	HE	166.0	EP			05:28	12.92			-0.21
INVG	HZ	166.0	EP			05:28	13.76			0.63
INVG	HN	166.0	ES			05:28	31.59			-0.36
INVG	HN	166.0	IAML			05:28	35.64	1	0.23	
INVG	HE	166.0	IAML			05:28	36.10	1	0.25	

January 24 2017 Time: 16:35 28.9 UTC Magnitude: 2.4 ML
Lat: 56.066N Lon: -5.250W Depth: 11.0 km
Grid Ref: 197.71 kmE 690.66 kmN RMS: 0.40 secs
Locality: LEPHINMORE,ARGYLL/BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT LOCHGILPHEAD... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	23.5	IP		D	16:35	33.48			-0.06
LAWE	HN	23.5	ES			16:35	36.76			-0.14
LAWE	HE	23.5	IAML			16:35	37.13	840	0.14	
LAWE	HN	23.5	IAML			16:35	37.21	394	0.17	
PGB1	HZ	55.6	IP		C	16:35	39.14			0.67
PGB1	HE	55.6	ES			16:35	45.28			-0.14
PGB1	HN	55.6	IAML			16:35	45.72	265	0.11	
PGB1	HE	55.6	IAML			16:35	46.19	199	0.09	
INVG	HZ	84.9	IP		C	16:35	43.18			0.16
INVG	HE	84.9	ES			16:35	52.97			-0.33
INVG	HE	84.9	IAML			16:35	56.41	168	0.20	
INVG	HN	84.9	IAML			16:35	56.66	258	0.25	
NEWG	HZ	124.0	IP		D	16:35	48.15			-0.62
EDI	HZ	130.0	EP			16:35	49.96			0.33
EDI	HE	130.0	IAML			16:36	07.77	68	0.33	
EDI	HN	130.0	IAML			16:36	07.83	92	0.26	
GAL1	HZ	138.0	IP		C	16:35	50.22			-0.56
GAL1	HN	138.0	IAML			16:36	07.77	106	0.11	
GAL1	HE	138.0	IAML			16:36	08.39	110	0.18	
EBL	EZ	142.0	EP			16:35	51.61			0.20
KPL	HZ	144.0	EP			16:35	52.42			0.78
ESK	HZ	153.0	EP			16:35	52.88			-0.14
MDO	EZ	162.0	EP			16:35	53.99			-0.35
ESY	EZ	165.0	EP			16:35	54.90			0.22
DRUM	HZ	195.0	EP			16:35	58.62			0.31
IOMK	HZ	206.0	EP			16:35	59.65			-0.03
MCD	EZ	208.0	IP		C	16:35	59.76			-0.28
LINV	HZ	232.0	EP			16:36	03.09			0.16
EDMD	HZ	249.0	EP			16:36	04.64			-0.46
LEWI	HZ	251.0	EP			16:36	05.58			0.15

January 25 2017 Time: 16:32 15.4 UTC Magnitude: 1.4 ML
Lat: 56.052N Lon: -5.258W Depth: 9.3 km
Grid Ref: 197.14 kmE 689.13 kmN RMS: 0.50 secs
Locality: LEPHINMORE,ARGYLL/BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT KILMORY Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	24.7	IP		D	16:32	20.16			0.00
LAWE	HE	24.7	ES			16:32	23.43			-0.19
LAWE	HE	24.7	IAML			16:32	23.81	77	0.10	
LAWE	HN	24.7	IAML			16:32	23.88	41	0.16	
PGB1	HZ	55.3	IP		C	16:32	25.83			0.86
PGB1	HE	55.3	ES			16:32	31.81			-0.13
PGB1	HN	55.3	IAML			16:32	32.42	27	0.15	
PGB1	HE	55.3	IAML			16:32	32.55	15	0.11	
INVG	HZ	86.1	IP		C	16:32	29.89			0.13
INVG	HE	86.1	ES			16:32	39.70			-0.52
INVG	HN	86.1	IAML			16:32	43.26	28	0.24	
INVG	HE	86.1	IAML			16:32	43.38	18	0.18	
CLGH	HZ	121.0	EP			16:32	34.70			-0.39
NEWG	HZ	123.0	EP			16:32	34.85			-0.54
GAL1	HZ	136.0	EP			16:32	36.96			-0.44
GAL1	HE	136.0	IAML			16:32	54.50	11	0.32	
GAL1	HN	136.0	IAML			16:32	54.51	8	0.24	
KPL	HZ	145.0	EP			16:32	39.70			1.05
ESK	HZ	153.0	EP			16:32	40.35			0.57
MDO	EZ	164.0	EP			16:32	42.66			1.26

TABLE 2 : PHASE DATA

January 28 2017 Time: 02:31 09.1 UTC Magnitude: 0.6 ML
Lat: 55.463N Lon: -5.134W Depth: 9.9 km
Grid Ref: 201.89 kmE 623.26 kmN RMS: 0.40 secs
Locality: ARRAN,NORTH AYRSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
PGB1	HE	56.4	ES			02:31	25.95			-0.01
PGB1	HN	56.4	IAML			02:31	26.52	6	0.14	
PGB1	HE	56.4	IAML			02:31	26.54	2	0.13	
NEWG	HZ	69.2	EP			02:31	20.59			-0.05
NEWG	HE	69.2	ES			02:31	28.60			-0.49
NEWG	HN	69.2	IAML			02:31	28.82	3	0.23	
NEWG	HE	69.2	IAML			02:31	29.03	3	0.25	
GAL1	HZ	71.7	EP			02:31	21.11			0.11
GAL1	HE	71.7	ES			02:31	29.36			-0.35
GAL1	HE	71.7	IAML			02:31	29.61	2	0.13	
GAL1	HN	71.7	IAML			02:31	30.14	2	0.29	
CLGH	HZ	75.1	EP			02:31	22.07			0.56
CLGH	HN	75.1	ES			02:31	30.39			-0.21
CLGH	HE	75.1	IAML			02:31	31.05	4	0.10	
CLGH	HN	75.1	IAML			02:31	31.11	6	0.21	
LAWE	HE	90.2	ES			02:31	34.00			-0.29
LAWE	HN	90.2	IAML			02:31	36.15	2	0.28	
LAWE	HE	90.2	IAML			02:31	36.23	3	0.36	
INVG	HZ	127.0	EP			02:31	30.07			1.12
INVG	HE	127.0	ES			02:31	43.73			0.27
INVG	HN	127.0	IAML			02:31	45.85	1	0.17	
INVG	HE	127.0	IAML			02:31	46.26	1	0.20	

January 28 2017 Time: 03:21 50.0 UTC Magnitude: 1.5 ML
Lat: 56.964N Lon: -5.575W Depth: 7.4 km
Grid Ref: 182.69 kmE 791.53 kmN RMS: 0.70 secs
Locality: LOCH MORAR,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	42.0	EP			03:21	57.44			0.04
KPL	HE	42.0	ES			03:22	02.40			-0.37
KPL	HE	42.0	IAML			03:22	02.60	49	0.16	
KPL	HN	42.0	IAML			03:22	03.67	8	0.26	
LAWE	HZ	79.2	EP			03:22	03.32			0.13
LAWE	HE	79.2	ES			03:22	12.23			-0.55
LAWE	HE	79.2	IAML			03:22	17.04	36	0.32	
LAWE	HN	79.2	IAML			03:22	17.27	46	0.24	
MDO	EZ	90.4	EP			03:22	04.90			-0.09
INVG	HZ	111.0	EP			03:22	07.97			-0.22
INVG	HE	111.0	IAML			03:22	22.84	10	0.14	
INVG	HN	111.0	IAML			03:22	22.86	16	0.14	
LINV	HZ	134.0	EP			03:22	12.00			0.51
LINV	HN	134.0	IAML			03:22	28.61	6	0.40	
LINV	HE	134.0	IAML			03:22	28.62	13	0.40	
PGB1	HZ	145.0	EP			03:22	15.34			2.20
PGB1	HN	145.0	IAML			03:22	33.55	8	0.52	
PGB1	HE	145.0	IAML			03:22	33.78	6	0.22	
LEWI	HZ	153.0	EP			03:22	14.80			0.56
LEWI	HN	153.0	IAML			03:22	33.81	7	0.24	
LEWI	HE	153.0	IAML			03:22	33.90	7	0.33	
CLGH	HZ	212.0	EP			03:22	21.87			-0.06
CLGH	HE	212.0	IAML			03:22	52.46	6	0.21	
CLGH	HN	212.0	IAML			03:22	52.81	7	0.29	
GAL1	HZ	240.0	EP			03:22	25.61			0.26

January 28 2017 Time: 03:43 51.0 UTC Magnitude: 0.4 ML
Lat: 55.383N Lon: -3.370W Depth: 4.6 km
Grid Ref: 313.21 kmE 610.75 kmN RMS: 0.10 secs
Locality: BODESBECK,D & G
Velocity model: Borders Xnear: 50.0 Xfar: 100.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
ESK	HZ	12.8	EP			03:43	53.85			0.06
ESK	HE	12.8	ES			03:43	55.71			-0.05
ESK	HN	12.8	IAML			03:43	55.85	14	0.14	
ESK	HE	12.8	IAML			03:43	55.96	23	0.07	
NEWG	HZ	62.2	EP			03:44	01.73			-0.06
NEWG	HN	62.2	ES			03:44	09.47			0.03
KESW	HZ	90.1	EP			03:44	06.56			0.21
GAL1	HZ	103.0	EP			03:44	08.46			0.02
GAL1	HN	103.0	ES			03:44	20.98			0.17

January 28 2017 Time: 07:50 51.9 UTC Magnitude: 0.4 ML
Lat: 50.814N Lon: -4.673W Depth: 2.6 km
Grid Ref: 211.72 kmE 105.07 kmN RMS: 0.30 secs
Locality: BUDE,CORNWALL
Velocity model: Lownet Xnear: 50.0 Xfar: 150.0
Comment: 8KM WEST BUDE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HTL	HZ	24.0	EP			07:50	56.47			0.06
HTL	HE	24.0	ES			07:50	59.49			-0.24
HTL	HE	24.0	IAML			07:51	00.00	3	0.14	
HTL	HN	24.0	IAML			07:51	00.62	6	0.20	
SBD	BZ	27.7	EP			07:50	57.23			0.17
SBD	BN	27.7	ES			07:51	00.50			-0.36
SBD	BN	27.7	IAML			07:51	00.75	19	0.10	
SBD	BE	27.7	IAML			07:51	00.75	15	0.11	
DYA	HZ	67.3	EP			07:51	03.88			0.35
DYA	HZ	67.3	ES			07:51	12.07			0.02
DYA	HZ	67.3	IAML			07:51	12.62	1	0.08	
DYA	HE	67.3	IAML			07:51	13.20	2	0.15	
CCA1	HZ	80.1	EP			07:51	06.02			0.52
CCA1	HE	80.1	ES			07:51	15.20			-0.26
CCA1	HE	80.1	IAML			07:51	15.84	2	0.08	
CCA1	HN	80.1	IAML			07:51	16.69	2	0.11	
RSBS	HE	127.0	ES			07:51	27.97			-0.02

January 29 2017 Time: 00:40 35.9 UTC Magnitude: 1.1 ML
Lat: 53.067N Lon: -2.134W Depth: 7.5 km
Grid Ref: 391.02 kmE 352.24 kmN RMS: 0.30 secs
Locality: ENDON,STAFFORDSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LBWR	HZ	46.2	EP			00:40	43.96			0.00
LBWR	HE	46.2	ES			00:40	49.76			-0.09
LBWR	HN	46.2	IAML			00:40	50.08	15	0.17	
LBWR	HE	46.2	IAML			00:40	50.22	17	0.10	
CWF	HZ	66.5	EP			00:40	47.14			0.05
CWF	HN	66.5	ES			00:40	55.04			-0.22
CWF	HN	66.5	IAML			00:40	55.87	23	0.21	
CWF	HE	66.5	IAML			00:40	55.97	14	0.18	
FOEL	HZ	74.3	EP			00:40	48.11			-0.23
FOEL	HN	74.3	ES			00:40	57.44			0.02
FOEL	HE	74.3	IAML			00:40	59.03	6	0.27	
FOEL	HN	74.3	IAML			00:40	59.30	4	0.17	
HLM1	HZ	79.1	EP			00:40	48.96			-0.13
HLM1	HN	79.1	ES			00:40	58.65			-0.07
HLM1	HE	79.1	IAML			00:40	59.83	16	0.24	
HLM1	HN	79.1	IAML			00:41	00.14	7	0.15	
HPK	HZ	105.0	EP			00:40	53.22			0.19
MCH1	HZ	133.0	EP			00:40	57.37			0.14
MONM	HZ	144.0	EP			00:40	59.52			0.68
STRD	HZ	144.0	EP			00:40	59.46			0.66

January 31 2017 Time: 05:01 59.3 UTC Magnitude: 0.5 ML
Lat: 58.153N Lon: -5.202W Depth: 14.1 km
Grid Ref: 211.60 kmE 922.67 kmN RMS: 0.10 secs
Locality: LOCHINVER,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LINV	HZ	0.7	EP			05:02	01.85			0.03
LINV	HN	0.7	ES			05:02	03.62			-0.04
LINV	HE	0.7	IAML			05:02	03.71	31	0.08	
LINV	HN	0.7	IAML			05:02	03.80	22	0.08	
BIGH	HZ	84.7	EP			05:02	13.52			0.19
BIGH	HE	84.7	ES			05:02	23.40			-0.17
BIGH	HN	84.7	IAML			05:02	23.94	3	0.12	
BIGH	HE	84.7	IAML			05:02	26.00	3	0.19	
KPL	HZ	94.5	EP			05:02	14.88			0.13
KPL	HN	94.5	ES			05:02	25.92			-0.10
KPL	HN	94.5	IAML			05:02	26.16	1	0.13	
KPL	HE	94.5	IAML			05:02	26.87	1	0.32	
LEWI	HE	98.2	ES			05:02	26.98			-0.05

February 4 2017 Time: 01:24 57.9 UTC Magnitude: 1.3 ML
Lat: 53.671N Lon: -1.975W Depth: 7.5 km
Grid Ref: 401.65 kmE 419.42 kmN RMS: 0.40 secs
Locality: RISHWORTH,W YORKSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LBWR	HZ	34.2	IP		D	01:25	03.99			-0.10
LBWR	HE	34.2	ES			01:25	08.63			0.00
LBWR	HE	34.2	IAML			01:25	09.73	38	0.26	
LBWR	HN	34.2	IAML			01:25	09.96	41	0.21	
HPK	HZ	39.4	EP			01:25	04.44			-0.43
HPK	HN	39.4	ES			01:25	09.76			-0.23
HPK	HN	39.4	IAML			01:25	10.21	131	0.18	
HPK	HE	39.4	IAML			01:25	10.27	121	0.15	
STNC	HZ	66.3	EP			01:25	09.38			0.35
GDLE	HZ	113.0	EP			01:25	16.84			0.58
CWF	HZ	113.0	EP			01:25	16.59			0.33
CWF	HN	113.0	ES			01:25	29.55			-0.13
CWF	HE	113.0	IAML			01:25	31.77	3	0.22	
CWF	HN	113.0	IAML			01:25	34.08	2	0.10	
FOEL	HZ	119.0	EP			01:25	16.75			-0.55
EDMD	HZ	129.0	EP			01:25	19.17			0.50
HLM1	HZ	142.0	EP			01:25	20.33			-0.24

February 9 2017 Time: 09:21 41.3 UTC Magnitude: 0.7 ML
Lat: 51.621N Lon: -3.201W Depth: 7.5 km
Grid Ref: 316.87 kmE 192.09 kmN RMS: 0.20 secs
Locality: YNYSDDU,CAERPHILLY
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

TABLE 2 : PHASE DATA

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH1	HZ	44.1	EP			09:21	48.97			-0.05
MCH1	HE	44.1	ES			09:21	54.73			0.07
MCH1	HE	44.1	IAML			09:21	54.85	6	0.12	
MCH1	HN	44.1	IAML			09:21	55.14	3	0.08	
HLM1	HN	102.0	ES			09:22	10.15			-0.16
HLM1	HN	102.0	IAML			09:22	11.58	2	0.20	
HLM1	HE	102.0	IAML			09:22	11.68	3	0.28	
RSBS	HZ	113.0	EP			09:21	59.60			-0.07
RSBS	HN	113.0	ES			09:22	12.94			-0.14
RSBS	HN	113.0	IAML			09:22	14.83	2	0.13	
RSBS	HE	113.0	IAML			09:22	14.58	3	0.14	
HTL	HZ	113.0	EP			09:22	00.02			0.28
LLW	BN	140.0	ES			09:22	20.52			0.45
DYA	HE	142.0	ES			09:22	20.17			-0.25

February 10 2017 Time: 02:13 46.3 UTC Magnitude: 0.3 ML
Lat: 52.417N Lon: -2.734W Depth: 7.7 km
Grid Ref: 350.09 kmE 280.18 kmN RMS: 0.20 secs
Locality: LUDLOW,SHROPSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 5KM NNW LUDLOW

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HLM1	HZ	15.0	EP			02:13	49.72			0.21
HLM1	HN	15.0	ES			02:13	52.01			0.13
HLM1	HN	15.0	IAML			02:13	52.08	15	0.12	
HLM1	HZ	15.0	IAML			02:13	52.17	6	0.20	
MCH1	HZ	50.1	EP			02:13	55.01			0.10
MCH1	HN	50.1	ES			02:14	01.14			-0.08
MCH1	HE	50.1	IAML			02:14	01.17	3	0.28	
MCH1	HN	50.1	IAML			02:14	01.51	3	0.16	
LLW	BN	79.2	ES			02:14	08.72			-0.30
LLW	BN	79.2	IAML			02:14	08.96	1	0.10	
LLW	BE	79.2	IAML			02:14	09.01	1	0.12	
LPW	HE	97.1	ES			02:14	13.56			-0.23
CWF	HZ	103.0	EP			02:14	03.32			0.20
CWF	HN	103.0	ES			02:14	15.15			-0.28
CWF	HE	103.0	IAML			02:14	16.98	2	0.25	
CWF	HN	103.0	IAML			02:14	18.34	2	0.23	
RSBS	HZ	147.0	EP			02:14	10.10			0.47
RSBS	HN	147.0	ES			02:14	27.04			0.35

February 10 2017 Time: 06:09 29.7 UTC Magnitude: 0.5 ML
Lat: 56.959N Lon: -4.678W Depth: 12.6 km
Grid Ref: 237.18 kmE 788.48 kmN RMS: 0.10 secs
Locality: GLEN ROY,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
INVG	HZ	70.8	EP			06:09	41.66			0.04
INVG	HE	70.8	ES			06:09	50.24			-0.07
INVG	HN	70.8	IAML			06:09	53.64	3	0.18	
INVG	HE	70.8	IAML			06:09	54.16	3	0.17	
KPL	HZ	72.6	EP			06:09	42.00			0.15
KPL	HN	72.6	ES			06:09	50.59			-0.12
KPL	HN	72.6	IAML			06:09	50.98	2	0.12	
KPL	HE	72.6	IAML			06:09	51.09	2	0.27	
LAWE	HZ	89.5	EP			06:09	44.49			0.01
LAWE	HE	89.5	ES			06:09	55.27			0.00
LAWE	HE	89.5	IAML			06:09	56.12	2	0.28	
LAWE	HN	89.5	IAML			06:09	57.42	3	0.10	
LINV	HE	136.0	ES			06:10	06.82			-0.04

February 10 2017 Time: 21:55 06.5 UTC Magnitude: 0.6 ML
Lat: 57.697N Lon: -4.139W Depth: 6.4 km
Grid Ref: 272.52 kmE 869.45 kmN RMS: 0.20 secs
Locality: INVERGORDON,HIGHLAND
Velocity model: Lownet Xnear: 150.0 Xfar: 300.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCD	EZ	54.3	EP			21:55	15.83			-0.08
MCD	EN	54.3	ES			21:55	22.68			-0.09
LINV	HZ	80.3	EP			21:55	19.78			-0.10
LINV	HN	80.3	ES			21:55	29.36			-0.29
LINV	HN	80.3	IAML			21:55	31.92	4	0.14	
LINV	HE	80.3	IAML			21:55	31.96	4	0.18	
BIGH	HZ	89.7	EP			21:55	21.63			0.28
BIGH	HE	89.7	ES			21:55	32.25			0.07
BIGH	HE	89.7	IAML			21:55	33.92	2	0.33	
BIGH	HN	89.7	IAML			21:55	34.11	1	0.18	
KPL	HN	99.1	ES			21:55	34.82			0.14
KPL	HE	99.1	IAML			21:55	37.40	1	0.13	
KPL	HN	99.1	IAML			21:55	37.42	2	0.26	
LEWI	HN	169.0	ES			21:55	52.73			0.09

February 14 2017 Time: 23:00 06.0 UTC Magnitude: 1.4 ML
Lat: 51.880N Lon: -4.593W Depth: 8.1 km
Grid Ref: 221.55 kmE 223.39 kmN RMS: 0.30 secs
Locality: LLANBOIDY,CARMARTHS
Velocity model: Mid Wales Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
RSBS	HZ	13.2	IP		D	23:00	08.68			-0.08
RSBS	HE	13.2	ES			23:00	10.73			0.00
RSBS	HN	13.2	IAML			23:00	10.87	275	0.08	
RSBS	HE	13.2	IAML			23:00	10.90	294	0.04	
LPW	HZ	44.4	EP			23:00	13.67			-0.08
LPW	HN	44.4	ES			23:00	19.39			0.09
HTL	HZ	98.8	EP			23:00	22.73			0.10
HTL	HE	98.8	ES			23:00	34.67			0.09
HTL	HN	98.8	IAML			23:00	35.26	14	0.17	
HTL	HE	98.8	IAML			23:00	35.94	17	0.24	
MCH1	HZ	110.0	EP			23:00	24.34			-0.05
MCH1	HE	110.0	ES			23:00	37.45			-0.16
MCH1	HN	110.0	IAML			23:00	41.80	11	0.10	
MCH1	HE	110.0	IAML			23:00	42.22	10	0.10	
MONM	HZ	123.0	EP			23:00	26.63			0.31
MONM	HN	123.0	ES			23:00	41.39			0.47
MONM	HE	123.0	IAML			23:00	42.29	8	0.14	
MONM	HN	123.0	IAML			23:00	43.94	9	0.21	
LLW	BZ	125.0	EP			23:00	25.98			-0.59
LLW	BN	125.0	IAML			23:00	42.27	3	0.27	
LLW	BE	125.0	IAML			23:00	42.36	5	0.20	
HLM1	HZ	137.0	EP			23:00	28.25			-0.15
HLM1	HN	137.0	IAML			23:00	46.34	13	0.28	
HLM1	HE	137.0	IAML			23:00	48.00	10	0.44	
FOEL	HZ	147.0	EP			23:00	29.64			-0.27
YRC	EZ	153.0	EP			23:00	30.16			-0.54
WLF1	HZ	157.0	EP			23:00	31.56			0.13
WLF1	HE	157.0	ES			23:00	49.93			0.21
WLF1	HE	157.0	IAML			23:00	51.84	13	0.20	
WLF1	HN	157.0	IAML			23:00	52.61	10	0.14	
DYA	HZ	167.0	EP			23:00	32.47			-0.24
DYA	HN	167.0	IAML			23:00	52.50	4	0.13	
DYA	HE	167.0	IAML			23:00	52.98	4	0.20	
WPS	HZ	169.0	EP			23:00	33.57			0.64
WPS	HN	169.0	ES			23:00	53.07			0.77
WPS	HN	169.0	IAML			23:00	54.34	6	0.22	
WPS	HE	169.0	IAML			23:00	54.44	4	0.51	
WME	EZ	170.0	EP			23:00	33.14			0.12

February 16 2017 Time: 02:38 32.6 UTC Magnitude: 0.2 ML
Lat: 57.626N Lon: -6.042W Depth: 7.4 km
Grid Ref: 158.70 kmE 866.73 kmN RMS: 0.30 secs
Locality: SOUTH RONA,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	39.6	EP			02:38	39.75			0.14
KPL	HE	39.6	ES			02:38	44.57			-0.13
KPL	HE	39.6	IAML			02:38	44.87	3	0.26	
KPL	HN	39.6	IAML			02:38	47.15	2	0.41	
LEWI	HZ	75.8	EP			02:38	45.34			0.07
LEWI	HE	75.8	ES			02:38	54.44			-0.07
LEWI	HE	75.8	IAML			02:38	57.48	2	0.22	
LEWI	HN	75.8	IAML			02:38	57.96	2	0.10	
LINV	HZ	76.7	EP			02:38	45.17			-0.20
BIGH	HZ	159.0	EP			02:38	58.55			0.90
BIGH	HE	159.0	ES			02:39	16.12			0.20

February 17 2017 Time: 05:32 57.6 UTC Magnitude: 1.5 ML
Lat: 53.525N Lon: -0.279W Depth: 16.3 km
Grid Ref: 514.08 kmE 404.55 kmN RMS: 0.30 secs
Locality: CAISTOR,LINCOLNSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LMK	HZ	8.2	IP		C	05:33	01.55			-0.20
LMK	HN	8.2	ES			05:33	04.89			0.14
LMK	HE	8.2	IAML			05:33	05.36	155	0.26	
LMK	HN	8.2	IAML			05:33	05.77	101	0.14	
AU05	HZ	54.2	EP			05:33	07.09			-0.01
AU05	HN	54.2	ES			05:33	13.55			-0.46
AU05	HE	54.2	IAML			05:33	14.41	79	0.50	
AU05	HN	54.2	IAML			05:33	14.54	72	0.14	
AU08	HZ	71.2	EP			05:33	09.60			0.05
AU08	HE	71.2	ES			05:33	18.52			0.28
AU08	HN	71.2	IAML			05:33	20.19	15	0.16	
AU08	HE	71.2	IAML			05:33	20.47	12	0.25	
AV06	HZ	72.3	EP			05:33	09.61			-0.08
AV06	HN	72.3	IAML			05:33	20.42	16	0.20	
AV06	HE	72.3	IAML			05:33	20.46	24	0.16	
AU09	HZ	80.0	EP			05:33	10.92			0.15
AU09	HE	80.0	ES			05:33	20.58			0.23
AU09	HE	80.0	IAML			05:33	22.16	38	0.30	
AU09	HN	80.0	IAML			05:33	22.19	25	0.34	
AU18	HZ	85.3	EP			05:33	11.64			0.11
AU11	HZ	86.3	EP			05:33	11.92			0.26
AU20	HZ	91.5	EP			05:33	12.52			0.09
AT08	HN	93.2	ES			05:33	23.63			0.03
LBWR	HZ	97.0	EP			05:33	12.88			-0.37
LBWR	HE	97.0	IAML			05:33	26.83	16	0.22	
LBWR	HN	97.0	IAML			05:33	26.85	12	0.16	

TABLE 2 : PHASE DATA

HPK	HE	101.0	ES	05:33	25.46			-0.13
HPK	HN	101.0	IAML	05:33	26.69	17	0.20	
HPK	HE	101.0	IAML	05:33	27.55	20	0.19	
GDLE	HZ	106.0	EP	05:33	13.94			-0.54
GDLE	HN	106.0	IAML	05:33	28.17	16	0.26	
GDLE	HE	106.0	IAML	05:33	28.85	9	0.28	
WACR	HZ	108.0	EP	05:33	14.36			-0.37
WACR	HN	108.0	ES	05:33	27.32			0.11
WACR	HE	108.0	IAML	05:33	27.55	8	0.20	
WACR	HN	108.0	IAML	05:33	27.86	10	0.19	
CWF	HZ	111.0	EP	05:33	15.40			0.14
CWF	HE	111.0	ES	05:33	28.55			0.42
CWF	HN	111.0	IAML	05:33	29.99	8	0.10	
CWF	HE	111.0	IAML	05:33	30.88	14	0.10	
AT10	HZ	111.0	EP	05:33	15.43			0.19
AT10	HN	111.0	IAML	05:33	32.56	8	0.34	
AT10	HE	111.0	IAML	05:33	31.03	8	0.32	

February 17 2017 Time: 05:39 29.1 UTC Magnitude: 1.3 ML
Lat: 53.499N Lon: -0.293W Depth: 17.7 km
Grid Ref: 513.22 kmE 401.64 kmN RMS: 0.20 secs
Locality: CAISTOR,LINCOLNSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LMK	HZ	5.2	IP		C	05:39	33.24			-0.21
LMK	HE	5.2	ES			05:39	36.79			0.18
LMK	HE	5.2	IAML			05:39	37.04	58	0.24	
LMK	HN	5.2	IAML			05:39	37.09	48	0.14	
AU05	HZ	55.6	EP			05:39	38.62			-0.24
AU05	HE	55.6	ES			05:39	45.60			-0.38
AU05	HN	55.6	IAML			05:39	46.04	43	0.26	
AU05	HE	55.6	IAML			05:39	46.30	31	0.25	
AU08	HZ	73.7	EP			05:39	41.34			-0.09
AU08	HE	73.7	ES			05:39	50.58			0.17
AV06	HZ	75.0	EP			05:39	41.36			-0.25
AV06	HE	75.0	IAML			05:39	52.06	10	0.32	
AV06	HN	75.0	IAML			05:39	52.22	8	0.24	
AU09	HZ	82.0	EP			05:39	42.75			0.16
AU14	HN	86.0	ES			05:39	53.51			0.14
AU14	HN	86.0	IAML			05:39	54.00	13	0.24	
AU14	HE	86.0	IAML			05:39	54.75	17	0.22	
AU11	HZ	88.4	EP			05:39	43.61			0.13
AT08	HE	94.6	ES			05:39	55.83			0.35
AT08	HE	94.6	IAML			05:39	56.40	18	0.22	
AT08	HN	94.6	IAML			05:39	56.46	32	0.22	
LBWR	HZ	95.7	EP			05:39	44.63			0.05
LBWR	HN	95.7	IAML			05:39	58.56	5	0.15	
LBWR	HE	95.7	IAML			05:39	58.67	8	0.12	
HPK	HE	102.0	ES			05:39	57.15			-0.13
HPK	HN	102.0	IAML			05:39	58.29	8	0.20	
HPK	HE	102.0	IAML			05:39	58.44	8	0.20	
WACR	HZ	106.0	EP			05:39	46.01			0.03
CWF	HZ	109.0	EP			05:39	46.47			0.10
CWF	HN	109.0	IAML			05:40	00.81	4	0.15	
CWF	HE	109.0	IAML			05:40	02.58	6	0.10	

February 17 2017 Time: 21:16 26.8 UTC Magnitude: 0.9 ML
Lat: 53.479N Lon: -4.180W Depth: 7.4 km
Grid Ref: 255.35 kmE 400.27 kmN RMS: 0.30 secs
Locality: AMLWCH,ANGLESEY
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 13KM NE AMLWCH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WME	EZ	12.2	EP			21:16	29.53			-0.03
WPS	HZ	22.9	IP			21:16	31.67			0.46
WPS	HN	22.9	ES			21:16	34.41			-0.01
WPS	HE	22.9	IAML			21:16	31.74	11	0.31	
WPS	HN	22.9	IAML			21:16	34.64	17	0.21	
WLF1	HZ	25.5	IP		D	21:16	31.98			0.36
WLF1	HE	25.5	ES			21:16	35.08			-0.06
WLF1	HN	25.5	IAML			21:16	35.15	30	0.10	
WLF1	HZ	25.5	IAML			21:16	35.16	41	0.10	
YRC	EZ	36.5	EP			21:16	32.69			-0.63
LLW	BZ	78.1	EP			21:16	39.57			-0.22
IOMK	HZ	90.6	EP			21:16	41.60			-0.14
FOEL	HZ	92.7	EP			21:16	42.42			0.31
FOEL	HE	92.7	ES			21:16	53.12			-0.16
FOEL	HE	92.7	IAML			21:16	53.92	4	0.30	
FOEL	HN	92.7	IAML			21:16	55.48	5	0.40	
HLM1	HZ	138.0	EP			21:16	49.15			0.20
HLM1	HE	138.0	ES			21:17	05.28			0.16
HLM1	HE	138.0	IAML			21:17	06.54	3	0.32	
HLM1	HN	138.0	IAML			21:17	07.05	4	0.34	

February 17 2017 Time: 23:41 13.8 UTC Magnitude: 0.6 ML
Lat: 56.818N Lon: -5.240W Depth: 11.2 km
Grid Ref: 202.28 kmE 774.28 kmN RMS: 0.30 secs
Locality: DUISKY,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	62.8	EP			23:41	24.31			-0.10
LAWE	HN	62.8	ES			23:41	32.14			-0.03
LAWE	HE	62.8	IAML			23:41	32.73	2	0.21	
LAWE	HN	62.8	IAML			23:41	35.19	2	0.24	
KPL	HZ	63.2	EP			23:41	24.67			0.23
KPL	HE	63.2	ES			23:41	32.02			-0.21
KPL	HE	63.2	IAML			23:41	32.55	4	0.22	
KPL	HN	63.2	IAML			23:41	35.58	3	0.14	
INVG	HE	85.3	EP			23:41	28.18			0.27
INVG	HN	85.3	ES			23:41	38.03			-0.20
INVG	HN	85.3	IAML			23:41	40.52	3	0.10	
INVG	HZ	85.3	IAML			23:41	40.70	3	0.18	
LINV	HZ	148.0	EP			23:41	37.83			0.76
LINV	HE	148.0	ES			23:41	53.49			-0.58

February 18 2017 Time: 00:48 37.5 UTC Magnitude: 1.3 ML
Lat: 52.845N Lon: -3.250W Depth: 11.1 km
Grid Ref: 315.82 kmE 328.27 kmN RMS: 0.30 secs
Locality: LLANSILIN,POWYS
Velocity model: Lleyn Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
FOEL	HZ	6.0	IP		C	00:48	39.70			-0.01
FOEL	HE	6.0	ES			00:48	41.37			0.16
FOEL	HE	6.0	IAML			00:48	41.73	189	0.10	
FOEL	HN	6.0	IAML			00:48	41.76	74	0.28	
LLW	BZ	27.9	IP		C	00:48	42.34			-0.23
LLW	BN	27.9	ES			00:48	45.69			-0.33
LLW	BN	27.9	IAML			00:48	46.02	24	0.10	
LLW	BE	27.9	IAML			00:48	46.07	13	0.10	
HLM1	HZ	44.1	IP		D	00:48	45.22			0.06
HLM1	HE	44.1	ES			00:48	50.82			0.45
HLM1	HN	44.1	IAML			00:48	51.07	22	0.28	
HLM1	HE	44.1	IAML			00:48	51.09	48	0.24	
STNC	HZ	75.3	EP			00:48	49.58			-0.52
WLF1	HZ	91.4	EP			00:48	52.66			0.11
WLF1	HE	91.4	ES			00:49	02.84			0.05
WLF1	HN	91.4	IAML			00:49	03.12	28	0.22	
WLF1	HE	91.4	IAML			00:49	03.28	16	0.30	
LPW	HZ	98.5	EP			00:48	53.49			-0.15
WPS	HZ	104.0	EP			00:48	54.78			0.30
WPS	HE	104.0	ES			00:49	06.53			0.50
WPS	HN	104.0	IAML			00:49	07.77	7	0.48	
WPS	HE	104.0	IAML			00:49	07.95	5	0.32	
LBWR	HZ	119.0	EP			00:48	56.43			-0.47
CWF	HZ	132.0	EP			00:48	58.59			-0.16
CWF	HN	132.0	ES			00:49	13.41			0.21
CWF	HN	132.0	IAML			00:49	14.64	8	0.10	
CWF	HE	132.0	IAML			00:49	14.69	3	0.13	
STRD	HZ	140.0	EP			00:49	00.29			0.22
RSBS	HZ	142.0	EP			00:48	59.84			-0.53
HPK	HZ	164.0	EP			00:49	03.75			0.44
HPK	HN	164.0	IAML			00:49	22.31	16	0.16	
HPK	HE	164.0	IAML			00:49	23.44	16	0.16	

February 18 2017 Time: 02:36 52.3 UTC Magnitude: 1.7 ML
Lat: 56.281N Lon: -4.884W Depth: 4.6 km
Grid Ref: 221.48 kmE 713.57 kmN RMS: 0.30 secs
Locality: CAIRNDOW,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	32.0	IP		C	02:36	58.26			0.04
LAWE	HE	32.0	ES			02:37	02.20			-0.34
LAWE	HN	32.0	IAML			02:37	02.25	78	0.10	
LAWE	HE	32.0	IAML			02:37	02.70	98	0.14	
INVG	HZ	54.4	IP		C	02:37	02.04			0.07
INVG	HN	54.4	ES			02:37	08.41			-0.61
INVG	HN	54.4	IAML			02:37	08.87	65	0.21	
INVG	HE	54.4	IAML			02:37	08.93	62	0.08	
PGB1	HZ	57.9	EP			02:37	02.32			-0.18
PGB1	HN	57.9	ES			02:37	10.16			0.21
PGB1	HE	57.9	IAML			02:37	10.37	43	0.24	
PGB1	HN	57.9	IAML			02:37	10.40	33	0.24	
EAU	EZ	102.0	EP			02:37	09.51			0.18
EDI	HZ	113.0	EP			02:37	11.19			0.20
EDI	HN	113.0	IAML			02:37	26.73	21	0.32	
EDI	HE	113.0	IAML			02:37	28.00	20	0.24	
EDU	EZ	119.0	EP			02:37	12.31			0.25
KPL	HZ	127.0	EP			02:37	13.54			0.40
KPL	HE	127.0	IAML			02:37	31.19	17	0.39	
KPL	HN	127.0	IAML			02:37	31.22	14	0.18	
EBL	EZ	128.0	EP			02:37	13.25			-0.14
MDO	EZ	133.0	EP			02:37	14.78			0.61
NEWG	HZ	136.0	EP			02:37	14.66			0.12
ESK	HZ	150.0	EP			02:37	16.06			-0.57
ESK	HN	150.0	IAML			02:37	35.97	12	0.23	
ESK	HE	150.0	IAML			02:37	36.70	17	0.38	

February 18 2017 Time: 13:19 51.5 UTC Magnitude: 0.6 ML

TABLE 2 : PHASE DATA

Lat: 52.189N Lon: -2.605W Depth: 6.6 km
Grid Ref: 358.65 kmE 254.75 kmN RMS: 0.10 secs
Locality: PENCOMBE,HEREFORDSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH1	HZ	34.4	IP		C	13:19	57.78			-0.02
MCH1	HN	34.4	ES			13:20	02.28			-0.10
MCH1	HE	34.4	IAML			13:20	02.41	7	0.06	
MCH1	HN	34.4	IAML			13:20	02.51	21	0.19	
HLM1	HZ	41.1	EP			13:19	58.91			0.02
HLM1	HE	41.1	ES			13:20	04.20			-0.07
HLM1	HN	41.1	IAML			13:20	04.29	5	0.11	
HLM1	HE	41.1	IAML			13:20	04.45	6	0.10	
MONM	HZ	41.3	EP			13:19	58.93			0.08
MONM	HE	41.3	ES			13:20	04.33			0.13
MONM	HN	41.3	IAML			13:20	04.49	9	0.26	
MONM	HE	41.3	IAML			13:20	04.75	4	0.11	
STRD	HN	55.1	ES			13:20	07.85			-0.09
STRD	HN	55.1	IAML			13:20	08.47	7	0.17	
STRD	HE	55.1	IAML			13:20	08.75	5	0.20	
FOEL	HE	87.7	ES			13:20	16.86			0.09
LPW	HN	100.0	ES			13:20	19.96			-0.10
LPW	HE	100.0	IAML			13:20	20.31	2	0.17	
LPW	HN	100.0	IAML			13:20	22.92	2	0.10	
RSBS	HZ	149.0	EP			13:20	15.18			-0.12
RSBS	HN	149.0	ES			13:20	32.99			0.34

February 20 2017 Time: 19:41 03.9 UTC Magnitude: 0.4 ML
Lat: 53.119N Lon: -4.481W Depth: 10.0 km
Grid Ref: 233.99 kmE 360.89 kmN RMS: 0.30 secs
Locality: CAERNARFON BAY
Velocity model: Lleyn Xnear: 80.0 Xfar: 200.0
Comment: 8KM SSW ABERFFRAW

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WLF1	HZ	19.7	EP			19:41	07.86			0.23
WLF1	HN	19.7	ES			19:41	10.30			0.13
WLF1	HN	19.7	IAML			19:41	10.63	17	0.07	
WLF1	HE	19.7	IAML			19:41	10.69	26	0.09	
YLL	EZ	20.9	EP			19:41	07.73			-0.09
WPS	HZ	31.3	EP			19:41	09.88			0.46
WPS	HE	31.3	ES			19:41	13.13			-0.06
WPS	HN	31.3	IAML			19:41	13.53	2	0.06	
WPS	HE	31.3	IAML			19:41	14.47	3	0.36	
WME	EZ	33.1	EP			19:41	08.97			-0.74
LLW	BZ	62.5	EP			19:41	14.31			-0.18
LLW	BE	62.5	ES			19:41	21.87			0.17
FOEL	HZ	89.7	EP			19:41	18.67			-0.13
FOEL	HE	89.7	ES			19:41	29.12			0.19
IOMK	HZ	127.0	EP			19:41	24.59			0.06
IOMK	HE	127.0	ES			19:41	38.58			0.02

February 22 2017 Time: 21:20 23.0 UTC Magnitude: 0.4 ML
Lat: 55.904N Lon: -5.278W Depth: 18.3 km
Grid Ref: 195.11 kmE 672.73 kmN RMS: 0.30 secs
Locality: KAMES,ARGYLL & BUTE
Velocity model: Lownet Xnear: 150.0 Xfar: 300.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	40.3	EP			21:20	30.44			-0.01
LAWE	HE	40.3	ES			21:20	35.43			-0.44
LAWE	HN	40.3	IAML			21:20	35.65	2	0.14	
LAWE	HE	40.3	IAML			21:20	35.70	4	0.18	
PGB1	HZ	50.8	EP			21:20	32.46			0.44
INVG	HZ	96.3	EP			21:20	38.79			0.25
INVG	HE	96.3	ES			21:20	49.90			0.05
INVG	HE	96.3	IAML			21:20	53.28	1	0.09	
INVG	HN	96.3	IAML			21:20	53.55	1	0.22	
CLGH	HZ	106.0	EP			21:20	40.26			0.41
CLGH	HN	106.0	ES			21:20	52.19			0.07
NEWG	HN	110.0	ES			21:20	52.77			-0.39
NEWG	HN	110.0	IAML			21:20	55.40	1	0.25	
NEWG	HE	110.0	IAML			21:20	55.51	2	0.18	
GAL1	HE	121.0	ES			21:20	55.54			-0.37
GAL1	HE	121.0	IAML			21:20	55.84	1	0.15	
GAL1	HN	121.0	IAML			21:20	58.69	1	0.14	

February 23 2017 Time: 18:09 04.3 UTC Magnitude: 0.9 ML
Lat: 57.511N Lon: -5.547W Depth: 4.3 km
Grid Ref: 187.57 kmE 852.28 kmN RMS: 0.20 secs
Locality: TORRIDON,HIGHLAND
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	20.2	EP			18:09	08.24			0.08
KPL	HE	20.2	ES			18:09	10.85			-0.15
KPL	HE	20.2	IAML			18:09	11.01	65	0.12	
KPL	HN	20.2	IAML			18:09	11.02	33	0.10	
LINV	HZ	73.8	EP			18:09	16.73			-0.12
LINV	HE	73.8	ES			18:09	25.52			-0.51
LINV	HE	73.8	IAML			18:09	28.55	3	0.10	
LINV	HN	73.8	IAML			18:09	29.51	2	0.18	
LEWI	HZ	106.0	EP			18:09	21.86			0.04
LEWI	HN	106.0	ES			18:09	34.74			0.11
LEWI	HE	106.0	IAML			18:09	35.86	2	0.11	
LEWI	HN	106.0	IAML			18:09	36.72	2	0.52	
LAWE	HE	140.0	ES			18:09	43.49			-0.05
LAWE	HE	140.0	IAML			18:09	45.35	4	0.28	
LAWE	HN	140.0	IAML			18:09	45.35	4	0.32	
BIGH	HZ	146.0	EP			18:09	28.11			0.24
BIGH	HE	146.0	ES			18:09	45.36			0.26
INVG	HZ	151.0	EP			18:09	28.97			0.29
INVG	HE	151.0	ES			18:09	46.30			-0.20
INVG	HN	151.0	IAML			18:09	46.45	2	0.22	
INVG	HE	151.0	IAML			18:09	48.54	2	0.22	

February 23 2017 Time: 23:38 42.4 UTC Magnitude: 1.0 ML
Lat: 56.702N Lon: -5.078W Depth: 4.5 km
Grid Ref: 211.58 kmE 760.92 kmN RMS: 0.30 secs
Locality: GLENCOE,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	53.1	EP			23:38	52.01			0.20
LAWE	HE	53.1	ES			23:38	58.69			-0.02
LAWE	HE	53.1	IAML			23:38	59.10	15	0.15	
LAWE	HN	53.1	IAML			23:38	59.19	12	0.20	
INVG	HZ	70.6	EP			23:38	54.00			-0.56
INVG	HN	70.6	IAML			23:39	03.46	3	0.09	
INVG	HE	70.6	IAML			23:39	05.74	9	0.12	
KPL	HZ	79.0	EP			23:38	56.12			0.31
KPL	HE	79.0	ES			23:39	05.29			-0.34
KPL	HN	79.0	IAML			23:39	08.93	5	0.13	
KPL	HE	79.0	IAML			23:39	09.55	7	0.18	
MDO	EZ	93.0	EP			23:38	57.87			-0.18
EDI	HE	146.0	ES			23:39	23.33			0.07
EDI	HN	146.0	IAML			23:39	24.34	4	0.39	
EDI	HE	146.0	IAML			23:39	25.70	4	0.24	
MCD	EZ	148.0	EP			23:39	06.73			0.40
MCD	EE	148.0	ES			23:39	24.01			0.19

February 24 2017 Time: 08:48 08.8 UTC Magnitude: 0.5 ML
Lat: 54.669N Lon: -2.594W Depth: 7.9 km
Grid Ref: 361.69 kmE 530.61 kmN RMS: 0.20 secs
Locality: CULGAITH,CUMBRIA
Velocity model: default (Lownet) Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KESW	HZ	34.2	EP			08:48	15.03			0.00
KESW	HN	34.2	ES			08:48	19.19			-0.36
KESW	HN	34.2	IAML			08:48	20.15	3	0.54	
KESW	HE	34.2	IAML			08:48	21.08	5	0.60	
EDMD	HZ	44.5	EP			08:48	16.72			0.14
EDMD	HN	44.5	ES			08:48	21.94			-0.29
EDMD	HN	44.5	IAML			08:48	22.03	7	0.10	
EDMD	HE	44.5	IAML			08:48	22.21	6	0.09	
ESK	HZ	82.0	EP			08:48	22.75			0.31
ESK	HE	82.0	ES			08:48	32.33			-0.04
NEWG	HE	116.0	ES			08:48	41.44			-0.07
NEWG	HN	116.0	IAML			08:48	42.22	1	0.15	
NEWG	HE	116.0	IAML			08:48	42.24	1	0.26	
IOMK	HN	136.0	ES			08:48	46.78			0.32

March 3 2017 Time: 09:28 11.0 UTC Magnitude: 2.6 ML
Lat: 52.910N Lon: -2.148W Depth: 13.1 km
Grid Ref: 390.05 kmE 334.78 kmN RMS: 0.40 secs
Locality: STONE,STAFFORDSHIRE
Velocity model: Lownet Xnear: 150.0 Xfar: 300.0
Comment: FELT OAKAMOOR Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
STNC	HZ	20.5	IP		D	09:28	15.70			0.36
STNC	HE	20.5	ES			09:28	19.29			0.82
STNC	HN	20.5	IAML			09:28	19.45	1080	0.17	
STNC	HE	20.5	IAML			09:28	19.58	1660	0.12	
CWF	HZ	59.8	IP		D	09:28	20.98			-0.26
CWF	HE	59.8	ES			09:28	27.94			-0.75
CWF	HN	59.8	IAML			09:28	28.43	470	0.21	
CWF	HE	59.8	IAML			09:28	28.85	346	0.16	
LBWR	HZ	61.5	IP		C	09:28	21.51			-0.04
LBWR	HN	61.5	ES			09:28	29.11			-0.10
LBWR	HN	61.5	IAML			09:28	29.29	228	0.16	
LBWR	HE	61.5	IAML			09:28	29.61	291	0.12	
HLM1	HZ	66.0	IP		C	09:28	21.92			-0.33
HLM1	HN	66.0	IAML			09:28	30.79	120	0.12	
HLM1	HE	66.0	IAML			09:28	32.70	162	0.22	
FOEL	HZ	70.8	EP			09:28	22.80			-0.19
FOEL	HE	70.8	ES			09:28	31.35			-0.37
FOEL	HE	70.8	IAML			09:28	33.21	150	0.24	
FOEL	HN	70.8	IAML			09:28	33.27	119	0.33	
LLW	BZ	102.0	EP			09:28	27.66			-0.05
LLW	BN	102.0	ES			09:28	39.50			-0.37
LLW	BE	102.0	IAML			09:28	40.40	52	0.35	
LLW	BN	102.0	IAML			09:28	40.54	75	0.30	

TABLE 2 : PHASE DATA

MCH1	HZ	117.0	EP	09:28	29.75			-0.05
MCH1	HN	117.0	ES	09:28	43.10			-0.38
MCH1	HN	117.0	IAML	09:28	43.77	210	0.14	
MCH1	HE	117.0	IAML	09:28	44.85	184	0.28	
HPK	HZ	122.0	EP	09:28	30.67			0.18
HPK	HE	122.0	IAML	09:28	46.39	432	0.20	
HPK	HN	122.0	IAML	09:28	46.50	615	0.14	
STRD	HZ	126.0	EP	09:28	31.51			0.38
STRD	HN	126.0	ES	09:28	46.34			0.55
STRD	HE	126.0	IAML	09:28	47.47	305	0.28	
STRD	HN	126.0	IAML	09:28	49.88	274	0.40	
MONM	HZ	127.0	EP	09:28	31.50			0.23
MONM	HE	127.0	ES	09:28	46.59			0.56
MONM	HN	127.0	IAML	09:28	47.95	196	0.66	
MONM	HE	127.0	IAML	09:28	48.14	211	0.48	
LMK	HZ	136.0	EP	09:28	32.67			0.14
LMK	HN	136.0	IAML	09:28	50.21	219	0.24	
LMK	HE	136.0	IAML	09:28	50.51	248	0.38	
YLL	EZ	138.0	EP	09:28	32.43			-0.38
WME	EZ	154.0	EP	09:28	34.52			-0.56
WLF1	HZ	156.0	EP	09:28	35.77			0.36
WLF1	HN	156.0	ES	09:28	53.50			0.30
WLF1	HN	156.0	IAML	09:28	54.36	118	0.14	
WLF1	HE	156.0	IAML	09:28	54.92	82	0.14	
LPW	HZ	158.0	EP	09:28	36.03			0.46
LPW	HE	158.0	IAML	09:28	54.86	70	0.16	
LPW	HN	158.0	IAML	09:28	54.87	44	0.30	
WPS	HZ	166.0	EP	09:28	37.26			0.60
WPS	HE	166.0	IAML	09:28	56.72	38	0.14	
WPS	HN	166.0	IAML	09:28	58.61	52	0.11	
YRC	EZ	167.0	EP	09:28	36.18			-0.55
WACR	HZ	188.0	EP	09:28	39.62			0.22
WACR	HN	188.0	IAML	09:29	03.51	85	0.26	
WACR	HE	188.0	IAML	09:29	05.93	63	0.20	
GDLE	HZ	190.0	EP	09:28	39.29			-0.34
GDLE	HN	190.0	IAML	09:29	04.22	162	0.24	
GDLE	HE	190.0	IAML	09:29	06.77	56	0.28	
EDMD	HZ	214.0	EP	09:28	42.13			-0.49
EDMD	HE	214.0	IAML	09:29	10.43	93	0.14	
EDMD	HN	214.0	IAML	09:29	11.39	116	0.25	
IOMK	HZ	220.0	EP	09:28	42.40			-0.94
IOMK	HE	220.0	IAML	09:29	11.42	21	0.17	
IOMK	HN	220.0	IAML	09:29	12.43	26	0.24	

March 4 2017 Time: 05:44 41.2 UTC Magnitude: 0.8 ML
Lat: 58.154N Lon: -5.458W Depth: 2.7 km
Grid Ref: 196.55 kmE 923.53 kmN RMS: 0.20 secs
Locality: LOCHINVER,HIGHLAND
Velocity model: Lownet Xnear: 50.0 Xfar: 150.0
Comment: 12KM WEST LOCHINVER

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LINV	HZ	15.4	IP		D	05:44	44.28			0.03
LINV	HE	15.4	IAML			05:44	44.36	16	0.07	
LINV	HN	15.4	IAML			05:44	44.36	10	0.07	
LINV	HE	15.4	ES			05:44	46.34			-0.17
LEWI	HZ	83.1	EP			05:44	55.60			0.33
LEWI	HN	83.1	ES			05:45	05.21			-0.36
LEWI	HN	83.1	IAML			05:45	08.34	6	0.17	
LEWI	HE	83.1	IAML			05:45	08.84	4	0.08	
KPL	HZ	91.4	EP			05:44	56.70			0.18
KPL	HN	91.4	IAML			05:45	07.59	8	0.16	
KPL	HE	91.4	IAML			05:45	07.74	8	0.22	
BIGH	HZ	98.3	EP			05:44	57.88			0.29
BIGH	HE	98.3	ES			05:45	09.67			0.08
BIGH	HN	98.3	IAML			05:45	12.40	4	0.19	
BIGH	HE	98.3	IAML			05:45	12.44	4	0.23	

March 4 2017 Time: 19:54 18.8 UTC Magnitude: 1.7 ML
Lat: 53.259N Lon: -0.198W Depth: 15.5 km
Grid Ref: 520.19 kmE 375.10 kmN RMS: 0.10 secs
Locality: HORNCASTLE,LINCOLNSHIRE
Velocity model: Lownet Xnear: 150.0 Xfar: 300.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LMK	HZ	23.6	IP		D	19:54	23.72			0.05
LMK	HE	23.6	ES			19:54	27.28			0.05
LMK	HE	23.6	IAML			19:54	28.08	244	0.26	
LMK	HN	23.6	IAML			19:54	28.20	179	0.30	
WACR	HZ	81.3	EP			19:54	32.04			-0.25
WACR	HN	81.3	IAML			19:54	43.36	27	0.16	
WACR	HE	81.3	IAML			19:54	44.09	15	0.18	
CWF	HZ	94.3	EP			19:54	34.10			-0.08
CWF	HE	94.3	ES			19:54	45.44			0.03
CWF	HN	94.3	IAML			19:54	45.95	7	0.19	
CWF	HE	94.3	IAML			19:54	46.47	15	0.12	
AU08	HZ	101.0	EP			19:54	35.11			-0.02
AU08	HN	101.0	IAML			19:54	47.99	14	0.18	
AU08	HE	101.0	IAML			19:54	48.27	18	0.16	
AV06	HZ	102.0	EP			19:54	35.20			-0.13
LBWR	HZ	103.0	EP			19:54	35.49			0.05
LBWR	HN	103.0	IAML			19:54	48.98	40	0.21	
LBWR	HE	103.0	IAML			19:54	49.47	38	0.15	
AU09	HZ	109.0	EP			19:54	36.30			0.07
AU11	HZ	115.0	EP			19:54	37.25			0.13
AT08	HZ	119.0	EP			19:54	37.60			-0.06
AT08	HE	119.0	IAML			19:54	52.68	22	0.28	
AT08	HN	119.0	IAML			19:54	53.17	30	0.14	
AU20	HZ	121.0	EP			19:54	37.98			-0.04
HPK	HZ	122.0	EP			19:54	38.17			-0.02
HPK	HE	122.0	ES			19:54	52.26			-0.08
HPK	HE	122.0	IAML			19:54	52.90	32	0.18	
HPK	HN	122.0	IAML			19:54	53.74	33	0.26	
GDLE	HZ	136.0	EP			19:54	40.19			0.10
GDLE	HN	136.0	IAML			19:54	56.47	15	0.38	
GDLE	HE	136.0	IAML			19:54	56.83	10	0.24	
ELMS	HZ	153.0	EP			19:54	42.47			0.00
ELMS	HE	153.0	ES			19:54	59.95			0.21
ELMS	HN	153.0	IAML			19:55	02.22	15	0.19	
ELMS	HE	153.0	IAML			19:55	02.29	20	0.25	

March 9 2017 Time: 05:48 43.3 UTC Magnitude: 0.4 ML
Lat: 54.230N Lon: -4.667W Depth: 2.0 km
Grid Ref: 226.18 kmE 484.89 kmN RMS: 0.10 secs
Locality: ISLE OF MAN
Velocity model: Borders Xnear: 150.0 Xfar: 300.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
IOMK	HZ	7.4	EP			05:48	45.09			-0.05
IOMK	HE	7.4	ES			05:48	46.40			-0.03
IOMK	HE	7.4	IAML			05:48	46.67	49	0.09	
IOMK	HN	7.4	IAML			05:48	46.73	26	0.07	
WPS	HZ	93.0	EP			05:48	59.68			-0.03
NEWG	HZ	103.0	EP			05:49	01.55			0.23
NEWG	HE	103.0	ES			05:49	13.94			-0.15
KESW	HZ	109.0	EP			05:49	02.21			-0.16
KESW	HN	109.0	ES			05:49	16.06			0.18

March 9 2017 Time: 10:47 34.7 UTC Magnitude: 0.3 ML
Lat: 52.700N Lon: -2.457W Depth: 4.7 km
Grid Ref: 369.12 kmE 311.51 kmN RMS: 0.10 secs
Locality: TELFORD,SHROPSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HLM1	HZ	35.1	EP			10:47	41.14			-0.08
HLM1	HE	35.1	ES			10:47	46.00			0.02
HLM1	HN	35.1	IAML			10:47	46.34	2	0.10	
HLM1	HE	35.1	IAML			10:47	46.52	4	0.30	
FOEL	HZ	54.4	EP			10:47	44.36			0.09
FOEL	HN	54.4	ES			10:47	51.16			-0.08
MCH1	HZ	86.5	EP			10:47	49.25			0.06
MCH1	HN	86.5	ES			10:47	59.94			0.17
MCH1	HN	86.5	IAML			10:48	00.77	2	0.13	
MCH1	HE	86.5	IAML			10:48	00.80	2	0.16	
MONM	HE	98.7	ES			10:48	02.83			-0.19

March 10 2017 Time: 05:06 26.8 UTC Magnitude: 0.6 ML
Lat: 53.049N Lon: -5.506W Depth: 9.2 km
Grid Ref: 165.04 kmE 355.97 kmN RMS: 0.40 secs
Locality: IRISH SEA
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
DSB	BZ	62.1	EP			05:06	37.50			0.22
DSB	BE	62.1	ES			05:06	44.51			-0.41
WPS	HZ	77.8	EP			05:06	40.39			0.68
WPS	HN	77.8	ES			05:06	48.64			-0.50
WPS	HN	77.8	IAML			05:06	49.48	2	0.49	
WPS	HE	77.8	IAML			05:06	49.59	2	0.81	
WLF1	HZ	78.9	EP			05:06	40.39			0.51
WLF1	HN	78.9	ES			05:06	49.03			-0.40
WLF1	HN	78.9	IAML			05:06	49.68	3	0.11	
WLF1	HE	78.9	IAML			05:06	50.85	4	0.26	
RSBS	HZ	133.0	EP			05:06	47.84			-0.18
RSBS	HN	133.0	ES			05:07	03.34			-0.18
RSBS	HN	133.0	IAML			05:07	04.92	1	0.09	
RSBS	HE	133.0	IAML			05:07	05.53	1	0.10	
IOMK	HE	148.0	ES			05:07	07.70			0.27
FOEL	HZ	156.0	EP			05:06	51.71			0.30
FOEL	HE	156.0	ES			05:07	09.09			-0.29
FOEL	HE	156.0	IAML			05:07	09.46	1	0.12	
FOEL	HN	156.0	IAML			05:07	09.82	3	0.37	
HLM1	HN	187.0	ES			05:07	16.47			0.20
HLM1	HE	187.0	IAML			05:07	17.90	1	0.09	
HLM1	HN	187.0	IAML			05:07	18.00	1	0.29	

March 12 2017 Time: 22:07 54.8 UTC Magnitude: 0.6 ML
Lat: 56.614N Lon: -5.172W Depth: 8.6 km
Grid Ref: 205.38 kmE 751.39 kmN RMS: 0.30 secs
Locality: GLENCOE,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES

TABLE 2 : PHASE DATA

LAWE	HZ	41.9	EP		22:08	02.18			0.01
LAWE	HE	41.9	ES		22:08	07.47			-0.08
LAWE	HN	41.9	IAML		22:08	07.88	2	0.08	
LAWE	HE	41.9	IAML		22:08	08.08	4	0.09	
INVG	HZ	72.5	EP		22:08	07.20			0.25
INVG	HE	72.5	ES		22:08	15.60			-0.20
INVG	HE	72.5	IAML		22:08	19.27	5	0.08	
INVG	HN	72.5	IAML		22:08	19.42	6	0.15	
KPL	HZ	85.8	EP		22:08	09.15			0.18
KPL	HE	85.8	ES		22:08	19.11			-0.19
KPL	HN	85.8	IAML		22:08	22.34	2	0.24	
KPL	HE	85.8	IAML		22:08	22.53	3	0.23	
LINV	HZ	171.0	EP		22:08	22.30			0.92
LINV	HE	171.0	ES		22:08	40.16			-0.62

March 13 2017 Time: 03:07 12.5 UTC Magnitude: 1.6 ML
Lat: 49.951N Lon: -1.071W Depth: 5.0 km
Grid Ref: 466.64 kmE 6.13 kmN RMS: 0.20 secs
Locality: ENGLISH CHANNEL
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 75KM SSE VENTNOR

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
JLP	EZ	108.0	EP			03:07	30.06			-0.21
JQE	EZ	109.0	EP			03:07	30.62			0.22
JDG	EZ	110.0	EP			03:07	30.84			0.32
JDC	EZ	110.0	EP			03:07	30.71			0.19
JRS	EE	112.0	EP			03:07	30.85			-0.04
JVM	EZ	116.0	EP			03:07	31.18			-0.28
JSA	HZ	116.0	EP			03:07	31.29			-0.25
JSA	HE	116.0	IAML			03:07	47.35	10	0.42	
JSA	HN	116.0	IAML			03:07	47.98	6	0.30	
HMNX	HZ	143.0	EP			03:07	35.43			-0.02
HMNX	HN	143.0	IAML			03:07	56.14	18	0.22	
HMNX	HE	143.0	IAML			03:07	57.71	30	0.38	
DYA	HZ	211.0	EP			03:07	44.62			0.07

March 16 2017 Time: 06:25 20.3 UTC Magnitude: 0.8 ML
Lat: 56.382N Lon: -4.265W Depth: 2.4 km
Grid Ref: 260.16 kmE 723.37 kmN RMS: 0.40 secs
Locality: LOCHEARNHEAD,STIRLING
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
INVG	HZ	14.6	IP		C	06:25	23.42			0.08
INVG	HE	14.6	ES			06:25	25.13			-0.40
INVG	HE	14.6	IAML			06:25	25.50	28	0.16	
INVG	HN	14.6	IAML			06:25	25.51	40	0.11	
LAWE	HZ	71.5	EP			06:25	32.89			0.24
LAWE	HE	71.5	ES			06:25	41.38			-0.26
LAWE	HN	71.5	IAML			06:25	41.70	6	0.13	
LAWE	HE	71.5	IAML			06:25	41.78	6	0.19	
DRUM	HZ	124.0	EP			06:25	41.46			0.64
DRUM	HZ	124.0	ES			06:25	56.40			0.63
DRUM	HN	124.0	ES			06:25	56.42			
NEWG	HE	141.0	ES			06:26	00.42			0.36
NEWG	HE	141.0	IAML			06:26	00.89	1	0.13	
NEWG	HN	141.0	IAML			06:26	02.44	2	0.52	

March 20 2017 Time: 02:06 45.8 UTC Magnitude: 1.3 ML
Lat: 54.533N Lon: -0.789W Depth: 1.8 km
Grid Ref: 478.35 kmE 515.99 kmN RMS: 0.30 secs
Locality: HINDERWELL,N YORKSHIRE
Velocity model: Lownet Xnear: 50.0 Xfar: 200.0
Comment: FELT HINDERWELL... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
GDLE	HZ	12.4	EP			02:06	48.07			-0.45
GDLE	HN	12.4	IAML			02:06	49.22	77	0.22	
GDLE	HE	12.4	IAML			02:06	49.25	64	0.20	
AU20	HZ	26.9	EP			02:06	50.99			0.04
AT10	HZ	31.0	EP			02:06	51.54			-0.14
AT10	HN	31.0	ES			02:06	56.12			0.13
AT10	HN	31.0	IAML			02:06	56.65	116	0.40	
AT10	HE	31.0	IAML			02:06	57.00	77	0.24	
AU18	HZ	32.1	EP			02:06	51.78			-0.04
AU18	HN	32.1	IAML			02:06	58.11	50	0.42	
AU18	HE	32.1	IAML			02:07	00.11	44	0.38	
AU15	HZ	34.3	EP			02:06	52.10			-0.10
AU15	HE	34.3	IAML			02:07	00.36	50	0.82	
AU15	HN	34.3	IAML			02:07	01.86	32	0.40	
AU13	HZ	37.1	EP			02:06	52.05			-0.61
AU11	HZ	38.5	EP			02:06	52.88			-0.02
AU11	HE	38.5	IAML			02:06	59.23	19	0.42	
AU11	HN	38.5	IAML			02:07	00.62	14	0.42	
AT12	HZ	42.9	EP			02:06	53.57			-0.09
AT12	HN	42.9	ES			02:06	59.45			0.03
AT12	HN	42.9	IAML			02:07	01.14	47	0.44	
AT12	HE	42.9	IAML			02:07	04.60	54	0.30	
AU09	HZ	43.6	EP			02:06	53.78			0.00
AV06	HZ	45.7	EP			02:06	54.50			0.36
AU08	HZ	46.2	EP			02:06	54.58			0.34
AT08	HZ	59.1	EP			02:06	56.73			0.47
AT08	HE	59.1	IAML			02:07	05.95	31	0.32	
AT08	HN	59.1	IAML			02:07	09.80	24	0.68	
EDMD	HZ	82.7	EP			02:06	59.70			-0.22
HPK	HZ	84.0	EP			02:07	00.26			0.09
HPK	HN	84.0	IAML			02:07	14.52	17	0.14	
HPK	HE	84.0	IAML			02:07	14.81	21	0.34	
LBWR	HZ	140.0	EP			02:07	09.53			0.73
LBWR	HN	140.0	IAML			02:07	28.78	16	0.31	
LBWR	HE	140.0	IAML			02:07	31.05	9	0.24	
KESW	HZ	150.0	EP			02:07	10.99			0.79
ESK	HZ	178.0	EP			02:07	14.85			0.75
ESK	HE	178.0	IAML			02:07	36.89	2	0.48	
ESK	HN	178.0	IAML			02:07	37.84	2	0.30	

March 20 2017 Time: 02:16 06.2 UTC Magnitude: 1.3 ML
Lat: 54.529N Lon: -0.793W Depth: 1.9 km
Grid Ref: 478.10 kmE 515.54 kmN RMS: 0.40 secs
Locality: HINDERWELL,N YORKSHIRE
Velocity model: Lownet Xnear: 50.0 Xfar: 200.0
Comment: FELT HINDERWELL... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
GDLE	HZ	12.0	EP			02:16	08.17			-0.59
GDLE	HE	12.0	IAML			02:16	10.60	51	0.18	
GDLE	HN	12.0	IAML			02:16	14.69	87	0.38	
AU20	HZ	26.5	EP			02:16	11.04			-0.16
AU20	HN	26.5	IAML			02:16	16.23	36	0.24	
AU20	HE	26.5	IAML			02:16	16.24	24	0.20	
AT10	HZ	30.5	EP			02:16	11.34			-0.58
AT10	HN	30.5	ES			02:16	16.22			0.14
AT10	HN	30.5	IAML			02:16	16.76	110	0.38	
AT10	HE	30.5	IAML			02:16	17.11	76	0.24	
AU18	HZ	31.7	EP			02:16	11.67			-0.41
AU18	HN	31.7	IAML			02:16	18.21	45	0.42	
AU18	HE	31.7	IAML			02:16	20.22	35	0.36	
AU13	HZ	36.7	EP			02:16	12.55			-0.36
AU11	HZ	38.0	EP			02:16	12.98			-0.15
AU11	HN	38.0	IAML			02:16	20.73	10	0.42	
AU11	HE	38.0	IAML			02:16	21.96	14	0.42	
AU09	HZ	43.2	EP			02:16	13.99			-0.03
AV06	HZ	45.4	EP			02:16	14.78			0.36
AU08	HZ	45.9	EP			02:16	14.57			0.07
AU07	HZ	47.7	EP			02:16	14.94			0.16
AU07	HN	47.7	IAML			02:16	24.22	36	0.34	
AU07	HE	47.7	IAML			02:16	24.57	29	0.24	
AT08	HZ	58.6	EP			02:16	16.96			0.47
AT08	HE	58.6	IAML			02:16	26.24	24	0.38	
AT08	HN	58.6	IAML			02:16	29.94	24	0.54	
EDMD	HZ	82.6	EP			02:16	20.94			0.73
EDMD	HN	82.6	IAML			02:16	34.92	14	0.18	
EDMD	HE	82.6	IAML			02:16	35.03	10	0.24	
HPK	HZ	83.5	EP			02:16	21.29			0.89
HPK	HN	83.5	IAML			02:16	34.64	13	0.14	
HPK	HE	83.5	IAML			02:16	34.92	18	0.34	
LBWR	HZ	140.0	EP			02:16	29.71			0.67
LBWR	HN	140.0	IAML			02:16	48.77	12	0.24	
LBWR	HE	140.0	IAML			02:16	51.06	8	0.22	
KESW	HZ	150.0	EP			02:16	30.96			0.49

March 20 2017 Time: 04:24 27.4 UTC Magnitude: 0.8 ML
Lat: 54.510N Lon: -0.767W Depth: 1.7 km
Grid Ref: 479.82 kmE 513.46 kmN RMS: 0.20 secs
Locality: HINDERWELL,N YORKSHIRE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: FELT STAITHES Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
GDLE	HZ	10.3	EP			04:24	29.28			-0.42
GDLE	HE	10.3	IAML			04:24	32.14	15	0.28	
GDLE	HN	10.3	IAML			04:24	34.25	22	0.40	
AU20	HZ	24.5	EP			04:24	32.17			0.09
AU18	HZ	29.4	EP			04:24	33.01			0.10
AU18	HN	29.4	IAML			04:24	42.69	35	0.24	
AU18	HE	29.4	IAML			04:24	42.70	41	0.22	
AT10	HZ	30.8	EP			04:24	33.20			0.01
AT10	HN	30.8	ES			04:24	37.48			0.05
AT10	HN	30.8	IAML			04:24	37.84	25	0.40	
AT10	HE	30.8	IAML			04:24	38.31	17	0.20	
AU11	HZ	36.5	EP			04:24	34.27			0.17

March 23 2017 Time: 02:47 36.4 UTC Magnitude: 0.7 ML
Lat: 51.915N Lon: -2.314W Depth: 2.3 km
Grid Ref: 378.41 kmE 224.15 kmN RMS: 0.40 secs
Locality: HIGHLEADON,GLOS
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH1	HZ	47.9	EP			02:47	44.95			-0.15
MCH1	HE	47.9	ES			02:47	51.11			-0.31
MCH1	HE	47.9	IAML			02:47	51.21	2	0.14	
MCH1	HN	47.9	IAML			02:47	51.42	6	0.13	

TABLE 2 : PHASE DATA

SWN1	HZ	57.1	EP		02:47	46.49			-0.05
SWN1	HE	57.1	ES		02:47	54.14			0.21
SWN1	HE	57.1	IAML		02:47	54.94	4	0.19	
SWN1	HN	57.1	IAML		02:47	55.42	5	0.19	
HLM1	HZ	77.5	EP		02:47	49.80			0.04
HLM1	HE	77.5	ES		02:47	59.50			0.01
HLM1	HN	77.5	IAML		02:47	59.89	2	0.17	
HLM1	HE	77.5	IAML		02:47	60.00	3	0.20	
CWF	HZ	115.0	EP		02:47	55.04			-0.41
CWF	HE	115.0	ES		02:48	08.98			-0.35
CWF	HE	115.0	IAML		02:48	09.79	3	0.23	
CWF	HN	115.0	IAML		02:48	10.34	2	0.37	
FOEL	HZ	124.0	EP		02:47	57.92			0.94
FOEL	HN	124.0	ES		02:48	12.53			0.54
RSBS	HZ	167.0	EP		02:48	02.98			-0.24
RSBS	HN	167.0	ES		02:48	22.58			-0.20
RSBS	HN	167.0	IAML		02:48	23.41	2	0.11	
RSBS	HE	167.0	IAML		02:48	23.56	2	0.20	

March 28 2017 Time: 06:12 05.2 UTC Magnitude: 0.8 ML
Lat: 51.974N Lon: -2.744W Depth: 3.9 km
Grid Ref: 348.90 kmE 230.92 kmN RMS: 0.20 secs
Locality: HEREFORD,HEREFORDSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 8KM SSW HEREFORD

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MONM	HZ	15.5	IP		C	06:12	08.33			0.01
MONM	HE	15.5	ES			06:12	10.56			-0.05
MONM	HE	15.5	IAML			06:12	10.84	47	0.18	
MONM	HN	15.5	IAML			06:12	11.05	34	0.16	
MCH1	HZ	17.6	IP		C	06:12	08.68			-0.01
MCH1	HN	17.6	ES			06:12	11.15			-0.10
MCH1	HE	17.6	IAML			06:12	11.38	32	0.10	
MCH1	HN	17.6	IAML			06:12	11.38	27	0.10	
STRD	HN	45.7	ES			06:12	19.32			-0.08
HLM1	HZ	61.3	EP			06:12	16.22			0.36
HLM1	HN	61.3	ES			06:12	23.41			-0.25
LPW	HE	92.2	ES			06:12	31.80			-0.02
LPW	HN	92.2	IAML			06:12	32.12	2	0.16	
LPW	HE	92.2	IAML			06:12	32.89	2	0.16	
RSBS	HZ	138.0	EP			06:12	27.91			0.35
RSBS	HE	138.0	IAML			06:12	46.97	4	0.12	
RSBS	HN	138.0	IAML			06:12	47.43	5	0.13	

March 28 2017 Time: 09:16 35.4 UTC Magnitude: 1.7 ML
Lat: 53.284N Lon: -0.555W Depth: 17.1 km
Grid Ref: 496.32 kmE 377.34 kmN RMS: 0.10 secs
Locality: SCAMPTON,LINCOLNSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LMK	HZ	24.6	EP			09:16	40.74			-0.24
LMK	HE	24.6	ES			09:16	45.16			0.11
LMK	HE	24.6	IAML			09:16	45.38	108	0.22	
LMK	HN	24.6	IAML			09:16	45.67	96	0.17	
CWF	HZ	78.9	EP			09:16	48.25			-0.16
CWF	HE	78.9	ES			09:16	58.15			0.24
CWF	HE	78.9	IAML			09:16	59.17	17	0.07	
CWF	HN	78.9	IAML			09:16	59.19	13	0.06	
LBWR	HZ	79.0	EP			09:16	48.27			-0.18
LBWR	HN	79.0	ES			09:16	57.93			-0.04
LBWR	HN	79.0	IAML			09:16	59.19	70	0.11	
LBWR	HE	79.0	IAML			09:16	59.35	71	0.16	
AU08	HZ	93.8	EP			09:16	50.53			0.01
AU07	HZ	96.0	EP			09:16	50.80			-0.01
AU09	HZ	98.5	EP			09:16	51.28			0.11
WACR	HZ	101.0	EP			09:16	51.47			-0.04
WACR	HE	101.0	ES			09:17	03.35			0.08
WACR	HE	101.0	IAML			09:17	05.30	20	0.12	
WACR	HN	101.0	IAML			09:17	05.68	21	0.22	
HPK	HZ	103.0	EP			09:16	51.75			-0.12
HPK	HE	103.0	ES			09:17	04.02			0.14
HPK	HN	103.0	IAML			09:17	05.55	32	0.17	
HPK	HE	103.0	IAML			09:17	07.18	19	0.18	
AU11	HZ	105.0	EP			09:16	52.17			0.12
AU20	HZ	113.0	EP			09:16	53.16			-0.11
AU20	HE	113.0	ES			09:17	06.40			0.08
AU20	HE	113.0	IAML			09:17	07.62	41	0.36	
AU20	HN	113.0	IAML			09:17	07.98	28	0.07	
AT10	HZ	128.0	EP			09:16	55.41			0.03

March 31 2017 Time: 22:24 43.8 UTC Magnitude: 2.4 ML
Lat: 59.753N Lon: 1.904W Depth: 11.5 km
Grid Ref: 619.27 kmE 1102.80 kmN RMS: 0.40 secs
Locality: NORTHERN NORTH SEA
Velocity model: North Sea Xnear: 500.0 Xfar: 1000.0
Comment: 175KM ESE LERWICK

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LRW	HZ	177.0	EP			22:25	10.56			0.07
LRW	HE	177.0	ES			22:25	29.96			-0.02
LRW	HE	177.0	IAML			22:25	32.19	34	0.14	
LRW	HN	177.0	IAML			22:25	34.83	66	0.30	
BER	HZ	204.0	EP			22:25	14.19			0.46
BER	HN	204.0	IAML			22:25	44.28	16	0.26	
BER	HE	204.0	IAML			22:25	45.42	9	0.26	
FOO	HZ	268.0	EP			22:25	21.95			0.26
FOO	HZ	268.0	ES			22:25	48.94			-0.42
BIGH	HZ	361.0	EP			22:25	33.51			0.20
BIGH	HN	361.0	ES			22:26	10.12			0.66
BIGH	HN	361.0	IAML			22:26	27.68	6	0.18	
BIGH	HE	361.0	IAML			22:26	32.32	7	0.40	
DRUM	HZ	408.0	EP			22:25	39.41			0.33
DRUM	HE	408.0	ES			22:26	19.57			0.13
DRUM	HE	408.0	IAML			22:26	22.93	14	0.16	
DRUM	HN	408.0	IAML			22:26	23.71	12	0.30	
LINV	HZ	446.0	EP			22:25	43.61			-0.21
LINV	HE	446.0	ES			22:26	27.41			-0.25
LINV	HN	446.0	IAML			22:26	53.36	6	0.58	
LINV	HE	446.0	IAML			22:26	56.16	5	0.46	
INVG	HZ	510.0	EP			22:25	51.79			0.00
INVG	HE	510.0	IAML			22:26	42.26	4	0.42	
INVG	HN	510.0	IAML			22:26	43.76	5	0.30	
LEWI	HZ	535.0	EP			22:25	54.86			-0.10
LEWI	HN	535.0	ES			22:26	46.69			-0.23
LAWE	HZ	581.0	EP			22:25	59.85			-0.71
LAWE	HN	581.0	IAML			22:26	59.18	6	0.42	
LAWE	HE	581.0	IAML			22:27	00.11	3	0.16	
ESK	HZ	581.0	EP			22:26	00.60			0.00
EDMD	HZ	595.0	EP			22:26	01.73			-0.65

April 1 2017 Time: 21:15 34.8 UTC Magnitude: 0.4 ML
Lat: 57.352N Lon: -5.864W Depth: 6.5 km
Grid Ref: 167.59 kmE 835.64 kmN RMS: 0.20 secs
Locality: APPLECROSS,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	12.8	IP		C	21:15	37.66			0.09
KPL	HN	12.8	ES			21:15	39.44			-0.15
KPL	HN	12.8	IAML			21:15	39.52	12	0.12	
KPL	HE	12.8	IAML			21:15	39.58	20	0.12	
LINV	HZ	97.0	EP			21:15	50.91			0.13
LINV	HN	97.0	ES			21:16	02.38			-0.04
LEWI	HZ	107.0	EP			21:15	52.51			0.20
LEWI	HE	107.0	ES			21:16	04.84			-0.24
LAWE	HZ	125.0	EP			21:15	55.25			0.13
LAWE	HN	125.0	ES			21:16	09.70			-0.24
INVG	HZ	151.0	EP			21:15	59.00			0.07
INVG	HN	151.0	ES			21:16	16.77			0.23
INVG	HE	151.0	IAML			21:16	17.90	1	0.38	
INVG	HN	151.0	IAML			21:16	18.40	0	0.10	

April 2 2017 Time: 20:43 23.6 UTC Magnitude: 0.6 ML
Lat: 57.289N Lon: -5.660W Depth: 3.0 km
Grid Ref: 179.47 kmE 827.95 kmN RMS: 0.20 secs
Locality: BALMACARA,HIGHLAND
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	5.6	IP		C	20:43	25.01			-0.06
KPL	HN	5.6	ES			20:43	25.91			-0.20
KPL	HN	5.6	IAML			20:43	26.06	45	0.08	
KPL	HE	5.6	IAML			20:43	26.09	43	0.11	
LINV	HZ	99.5	EP			20:43	40.31			0.08
LINV	HE	99.5	ES			20:43	52.59			0.26
LINV	HN	99.5	IAML			20:43	52.87	1	0.18	
LINV	HE	99.5	IAML			20:43	52.93	3	0.18	
LAWE	HZ	116.0	EP			20:43	42.94			0.18
LAWE	HE	116.0	ES			20:43	56.69			-0.02
LAWE	HN	116.0	IAML			20:43	59.56	4	0.18	
LAWE	HE	116.0	IAML			20:43	59.98	4	0.30	
LEWI	HZ	119.0	EP			20:43	43.57			0.20
LEWI	HN	119.0	ES			20:43	57.51			-0.26
INVG	HZ	138.0	EP			20:43	46.26			0.15
INVG	HE	138.0	ES			20:44	02.18			-0.33
INVG	HN	138.0	IAML			20:44	03.17	1	0.18	
INVG	HE	138.0	IAML			20:44	03.23	1	0.43	

April 5 2017 Time: 15:51 03.5 UTC Magnitude: 0.9 ML
Lat: 53.861N Lon: -3.681W Depth: 1.9 km
Grid Ref: 289.46 kmE 441.86 kmN RMS: 0.20 secs
Locality: IRISH SEA
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 40KM WEST BLACKPOOL

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WME	EZ	66.0	EP			15:51	14.90			-0.20
WME	EZ	66.0	ES			15:51	23.40			-0.14
IOMK	HZ	73.0	EP			15:51	16.25			0.05
IOMK	HE	73.0	ES			15:51	25.33			-0.11
IOMK	HN	73.0	IAML			15:51	28.51	8	0.14	
IOMK	HE	73.0	IAML			15:51	29.01	7	0.13	

TABLE 2 : PHASE DATA

WPS	HZ	74.5	EP	15:51	16.41			0.02
WPS	HN	74.5	ES	15:51	25.89			0.11
WPS	HE	74.5	IAML	15:51	28.06	2	0.53	
WPS	HN	74.5	IAML	15:51	30.25	4	0.89	
KESW	HZ	89.3	EP	15:51	18.69			-0.05
KESW	HN	89.3	ES	15:51	29.73			-0.11
KESW	HE	89.3	IAML	15:51	31.73	7	0.24	
KESW	HN	89.3	IAML	15:51	32.55	4	0.21	
FOEL	HE	113.0	ES	15:51	36.41			0.23
FOEL	HN	113.0	IAML	15:51	38.87	5	0.42	
FOEL	HE	113.0	IAML	15:51	39.42	4	0.38	
GAL1	HZ	130.0	EP	15:51	25.65			0.57
GAL1	HN	130.0	ES	15:51	40.97			0.16
GAL1	HE	130.0	IAML	15:51	41.90	2	0.16	
GAL1	HN	130.0	IAML	15:51	43.75	2	0.29	
NEWG	HZ	144.0	EP	15:51	27.00			-0.11
FOEL	HZ	113.0	EP	15:51	22.32			-0.09

April 7 2017 Time: 10:04 58.9 UTC Magnitude: 2.7 ML
Lat: 53.073N Lon: 2.733W Depth: 10.0 km
Grid Ref: 716.97 kmE 363.37 kmN RMS: 0.60 secs
Locality: SOUTHERN NORTH SEA
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 90KM NE LOWESTOFT

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WACR	HZ	147.0	EP			10:05	20.90			-1.17
WACR	HN	147.0	ES			10:05	39.10			0.11
WACR	HE	147.0	IAML			10:05	41.62	61	0.34	
WACR	HN	147.0	IAML			10:05	44.38	69	0.28	
ELMS	HZ	161.0	EP			10:05	24.48			0.42
ELMS	HN	161.0	ES			10:05	42.52			0.08
ELMS	HN	161.0	IAML			10:05	47.56	122	0.36	
ELMS	HE	161.0	IAML			10:05	54.68	120	0.40	
LMK	HZ	209.0	EP			10:05	30.99			0.91
LMK	HE	209.0	ES			10:05	52.68			-0.16
LMK	HN	209.0	IAML			10:06	01.21	121	0.44	
LMK	HE	209.0	IAML			10:06	03.31	100	0.36	
GDLE	HZ	278.0	EP			10:05	38.35			-0.44
GDLE	HN	278.0	ES			10:06	08.17			0.26
GDLE	HN	278.0	IAML			10:06	22.99	44	0.56	
GDLE	HE	278.0	IAML			10:06	23.89	24	0.52	

April 9 2017 Time: 03:16 46.0 UTC Magnitude: 0.6 ML
Lat: 56.468N Lon: -5.377W Depth: 7.7 km
Grid Ref: 192.00 kmE 735.75 kmN RMS: 0.10 secs
Locality: ACHNACAIRN,ARGYLL/BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	23.2	EP			03:16	50.52			0.05
LAWE	HE	23.2	ES			03:16	53.70			-0.04
LAWE	HE	23.2	IAML			03:16	53.86	19	0.14	
LAWE	HN	23.2	IAML			03:16	54.06	12	0.10	
INVG	HZ	82.3	EP			03:16	59.85			0.19
INVG	HN	82.3	ES			03:17	09.52			-0.11
INVG	HN	82.3	IAML			03:17	12.27	2	0.11	
INVG	HE	82.3	IAML			03:17	12.29	2	0.08	
KPL	HZ	98.4	EP			03:17	01.93			-0.17
KPL	HE	98.4	ES			03:17	13.95			0.09
KPL	HN	98.4	IAML			03:17	16.48	1	0.27	
KPL	HE	98.4	IAML			03:17	16.48	2	0.18	

April 10 2017 Time: 04:49 57.7 UTC Magnitude: 1.4 ML
Lat: 49.972N Lon: -1.253W Depth: 5.0 km
Grid Ref: 453.56 kmE 8.32 kmN RMS: 0.10 secs
Locality: ENGLISH CHANNEL
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 70KM SSW VENTNOR

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
JLP	EZ	101.0	EP			04:50	14.98			-0.10
JDC	EE	104.0	IAML			04:50	30.34	18	0.20	
JDC	EN	104.0	IAML			04:50	30.71	53	0.26	
JDG	EZ	104.0	EP			04:50	15.50			0.06
JDC	EZ	104.0	EP			04:50	15.57			0.12
JRS	EN	106.0	EP			04:50	15.74			-0.04
JRS	EN	106.0	IAML			04:50	30.54	8	0.10	
JRS	EE	106.0	IAML			04:50	30.97	14	0.30	
JSA	HZ	110.0	EP			04:50	16.29			-0.07
JSA	HE	110.0	ES			04:50	30.01			0.01
JSA	HN	110.0	IAML			04:50	32.36	4	0.20	
JSA	HE	110.0	IAML			04:50	32.38	5	0.28	
DYA	HZ	198.0	EP			04:50	28.94			0.01

April 10 2017 Time: 18:20 31.7 UTC Magnitude: 0.8 ML
Lat: 57.758N Lon: -5.716W Depth: 7.5 km
Grid Ref: 178.96 kmE 880.29 kmN RMS: 0.20 secs
Locality: GAIRLOCH,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 3KM NNW GAIRLOCH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	46.7	EP			18:20	39.90			0.14
KPL	HE	46.7	ES			18:20	45.47			-0.20
KPL	HN	46.7	IAML			18:20	45.65	2	0.19	
KPL	HE	46.7	IAML			18:20	45.82	5	0.32	
LINV	HZ	53.2	EP			18:20	40.93			0.16
LINV	HN	53.2	ES			18:20	47.08			-0.33
LINV	HN	53.2	IAML			18:20	47.17	4	0.22	
LINV	HE	53.2	IAML			18:20	47.68	5	0.16	
LEWI	HZ	80.7	EP			18:20	45.34			0.26
LEWI	HN	80.7	ES			18:20	54.69			-0.18
LEWI	HN	80.7	IAML			18:20	57.59	3	0.48	
LEWI	HE	80.7	IAML			18:20	57.87	3	0.21	
BIGH	HZ	134.0	EP			18:20	53.22			0.00
BIGH	HN	134.0	ES			18:21	09.31			0.37
BIGH	HN	134.0	IAML			18:21	11.10	5	0.12	
BIGH	HE	134.0	IAML			18:21	11.25	8	0.34	

April 11 2017 Time: 03:19 05.7 UTC Magnitude: 0.7 ML
Lat: 57.754N Lon: -5.703W Depth: 7.5 km
Grid Ref: 179.71 kmE 879.81 kmN RMS: 0.30 secs
Locality: GAIRLOCH,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 3KM NNW GAIRLOCH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	46.3	EP			03:19	13.86			0.11
KPL	HE	46.3	ES			03:19	19.41			-0.19
KPL	HE	46.3	IAML			03:19	19.76	5	0.33	
KPL	HN	46.3	IAML			03:19	19.88	2	0.38	
LINV	HZ	53.1	EP			03:19	14.88			0.07
LINV	HE	53.1	ES			03:19	21.02			-0.42
LINV	HN	53.1	IAML			03:19	21.21	2	0.21	
LINV	HE	53.1	IAML			03:19	21.43	3	0.11	
LEWI	HZ	81.6	EP			03:19	19.24			-0.04
LEWI	HN	81.6	ES			03:19	29.20			0.03
BIGH	HZ	134.0	EP			03:19	27.95			0.72
BIGH	HE	134.0	ES			03:19	43.25			0.33
BIGH	HN	134.0	IAML			03:19	44.95	3	0.14	
BIGH	HE	134.0	IAML			03:19	45.04	5	0.34	
LAWE	HE	167.0	ES			03:19	51.14			-0.03
LAWE	HN	167.0	IAML			03:19	55.17	2	0.40	
LAWE	HE	167.0	IAML			03:19	55.46	3	0.25	

April 11 2017 Time: 16:01 20.1 UTC Magnitude: 1.7 ML
Lat: 53.225N Lon: 0.340W Depth: 13.6 km
Grid Ref: 556.19 kmE 372.36 kmN RMS: 0.30 secs
Locality: SKEGNESS,LINCOLNSHIRE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 8KM NORTH SKEGNESS

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LMK	HZ	51.3	EP			16:01	28.89			-0.09
LMK	HE	51.3	ES			16:01	35.73			0.26
LMK	HE	51.3	IAML			16:01	36.00	62	0.30	
LMK	HN	51.3	IAML			16:01	36.26	60	0.26	
WACR	HZ	59.0	EP			16:01	30.03			-0.12
WACR	HE	59.0	ES			16:01	37.71			0.21
WACR	HE	59.0	IAML			16:01	38.23	31	0.18	
WACR	HN	59.0	IAML			16:01	38.36	27	0.22	
CWF	HZ	123.0	EP			16:01	39.14			-0.56
CWF	HE	123.0	ES			16:01	53.99			-0.04
CWF	HN	123.0	IAML			16:01	54.87	10	0.18	
CWF	HE	123.0	IAML			16:01	55.12	9	0.24	
ELMS	HZ	133.0	EP			16:01	40.84			-0.30
ELMS	HE	133.0	ES			16:01	56.90			0.39
ELMS	HE	133.0	IAML			16:01	57.93	20	0.34	
ELMS	HN	133.0	IAML			16:01	58.70	17	0.33	
LBWR	HZ	139.0	EP			16:01	41.94			-0.05
LBWR	HE	139.0	ES			16:01	58.19			0.21
LBWR	HE	139.0	IAML			16:01	59.46	25	0.38	
LBWR	HN	139.0	IAML			16:02	01.21	28	0.52	
HPK	HE	153.0	ES			16:02	01.61			0.09
HPK	HN	153.0	IAML			16:02	02.65	18	0.14	
HPK	HE	153.0	IAML			16:02	03.40	23	0.22	

April 14 2017 Time: 00:23 19.6 UTC Magnitude: 0.6 ML
Lat: 55.114N Lon: -3.649W Depth: 4.3 km
Grid Ref: 294.83 kmE 581.20 kmN RMS: 0.30 secs
Locality: DUMFRIES,D & G
Velocity model: Borders Xnear: 50.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
ESK	HE	36.2	EP			00:23	26.22			0.07
ESK	HZ	36.2	ES			00:23	30.54			-0.26
ESK	HN	36.2	IAML			00:23	30.75	2	0.26	
ESK	HZ	36.2	IAML			00:23	30.76	5	0.20	
NEWG	HZ	37.0	EP			00:23	26.62			0.35
NEWG	HN	37.0	ES			00:23	30.99			-0.02
NEWG	HN	37.0	IAML			00:23	31.09	6	0.22	
NEWG	HE	37.0	IAML			00:23	31.20	4	0.10	
GAL1	HZ	73.3	EP			00:23	32.21			0.04
GAL1	HN	73.3	ES			00:23	40.70			-0.39

TABLE 2 : PHASE DATA

GAL1	HN	73.3	IAML		00:23	41.36	3	0.33
GAL1	HE	73.3	IAML		00:23	43.62	2	0.38
IOMK	HE	112.0	ES		00:23	51.71		-0.12
EDMD	HZ	113.0	EP		00:23	39.14		0.62
EDMD	HN	113.0	ES		00:23	51.95		0.00
EDMD	HE	113.0	IAML		00:23	53.76	7	0.30
EDMD	HN	113.0	IAML		00:23	53.78	6	0.22

April 14 2017 Time: 03:03 29.8 UTC Magnitude: 1.2 ML
Lat: 49.073N Lon: -1.712W Depth: 7.0 km
Grid Ref: 421.03 kmE -91.85 kmN RMS: 0.10 secs
Locality: JERSEY,CHANNEL ISLANDS
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 25KM SE JERSEY

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
JQE	EZ	27.7	EP			03:03	35.47			0.04
JDC	EZ	27.9	EP			03:03	35.57			0.10
JDC	EN	27.9	IAML			03:03	40.77	99	0.10	
JDC	EE	27.9	IAML			03:03	40.74	72	0.20	
JDG	EZ	27.9	EP			03:03	35.51			0.05
JRS	EZ	30.7	EP			03:03	35.92			-0.03
JLP	EZ	34.6	EP			03:03	36.58			-0.04
JSA	HZ	35.9	EP			03:03	36.73			-0.09
JSA	HN	35.9	ES			03:03	41.95			0.01
JSA	HN	35.9	IAML			03:03	42.58	15	0.19	
JSA	HE	35.9	IAML			03:03	43.64	13	0.18	
JVM	EZ	39.5	EP			03:03	37.35			-0.08
ROSF	BZ	141.0	EP			03:03	53.37			0.04
ROSF	BN	141.0	ES			03:04	10.53			0.01
ROSF	BN	141.0	IAML			03:04	11.00	5	0.44	
ROSF	BE	141.0	IAML			03:04	11.31	2	0.11	

April 16 2017 Time: 14:38 36.4 UTC Magnitude: 1.7 ML
Lat: 58.884N Lon: 1.399W Depth: 10.2 km
Grid Ref: 595.86 kmE 1004.56 kmN RMS: 0.40 secs
Locality: CENTRAL NORTH SEA
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 200KM SE LERWICK

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LRW	HZ	202.0	EP			14:39	06.69			-0.03
LRW	HE	202.0	ES			14:39	29.24			0.39
LRW	HE	202.0	IAML			14:39	30.18	7	0.25	
LRW	HN	202.0	IAML			14:39	31.58	8	0.28	
FOO	HZ	363.0	EP			14:39	27.05			0.15
FOO	HN	363.0	ES			14:40	03.49			-0.27
LINV	HZ	393.0	EP			14:39	30.26			-0.34
INVG	HZ	425.0	EP			14:39	34.00			-0.61
INVG	HN	425.0	ES			14:40	16.98			-0.12
INVG	HN	425.0	IAML			14:40	18.58	2	0.27	
INVG	HE	425.0	IAML			14:40	26.10	1	0.64	
EDMD	HZ	496.0	EP			14:39	44.24			0.82

April 19 2017 Time: 12:27 52.9 UTC Magnitude: 0.8 ML
Lat: 57.135N Lon: -5.678W Depth: 2.5 km
Grid Ref: 177.46 kmE 810.88 kmN RMS: 0.30 secs
Locality: LOCH HOURN,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 7KM WEST ARNISDALE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	22.7	EP			12:27	57.07			-0.11
KPL	HE	22.7	ES			12:27	59.82			-0.52
KPL	HE	22.7	IAML			12:28	00.01	17	0.22	
KPL	HN	22.7	IAML			12:28	02.10	4	0.14	
LAWE	HZ	98.9	EP			12:28	09.46			0.05
LAWE	HE	98.9	ES			12:28	21.44			-0.06
LAWE	HN	98.9	IAML			12:28	24.55	9	0.16	
LAWE	HE	98.9	IAML			12:28	24.60	9	0.18	
LINV	HZ	116.0	EP			12:28	12.71			0.63
LINV	HN	116.0	ES			12:28	26.53			0.41
LINV	HN	116.0	IAML			12:28	27.27	1	0.14	
LINV	HE	116.0	IAML			12:28	29.50	2	0.29	
INVG	HZ	127.0	EP			12:28	14.13			0.30
INVG	HN	127.0	ES			12:28	28.73			-0.41
INVG	HN	127.0	IAML			12:28	30.22	1	0.14	
INVG	HE	127.0	IAML			12:28	30.94	1	0.18	
LEWI	HZ	133.0	EP			12:28	14.71			-0.01
LEWI	HE	133.0	ES			12:28	30.64			-0.04
LEWI	HE	133.0	IAML			12:28	30.82	5	0.20	
LEWI	HN	133.0	IAML			12:28	30.83	4	0.20	

April 20 2017 Time: 02:28 20.2 UTC Magnitude: 0.8 ML
Lat: 53.359N Lon: -0.623W Depth: 2.2 km
Grid Ref: 491.63 kmE 385.59 kmN RMS: 0.20 secs
Locality: SCAMPTON,LINCOLNSHIRE
Velocity model: Lownet Xnear: 50.0 Xfar: 100.0
Comment: 13KM NNW LINCOLN

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LMK	HZ	22.5	EP			02:28	24.47			-0.07
LMK	HE	22.5	ES			02:28	27.78			0.04
LMK	HE	22.5	IAML			02:28	28.01	26	0.36	
LMK	HN	22.5	IAML			02:28	28.48	30	0.22	
LBWR	HZ	73.4	EP			02:28	32.97			0.10
LBWR	HN	73.4	ES			02:28	42.08			-0.07
LBWR	HN	73.4	IAML			02:28	44.31	4	0.16	
LBWR	HE	73.4	IAML			02:28	44.79	5	0.19	
CWF	HZ	82.9	EP			02:28	34.72			0.40
CWF	HE	82.9	ES			02:28	44.43			-0.22
CWF	HN	82.9	IAML			02:28	46.99	3	0.14	
CWF	HE	82.9	IAML			02:28	47.58	3	0.12	
HPK	HN	93.9	ES			02:28	47.84			0.24
HPK	HE	93.9	IAML			02:28	49.11	5	0.21	
HPK	HN	93.9	IAML			02:28	49.88	6	0.13	
WACR	HN	110.0	EP			02:28	38.80			0.36

April 22 2017 Time: 07:34 12.9 UTC Magnitude: 1.0 ML
Lat: 52.344N Lon: -1.796W Depth: 7.7 km
Grid Ref: 413.90 kmE 271.83 kmN RMS: 0.20 secs
Locality: NUTHURST,WARWICKSHIRE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CWF	HZ	55.0	EP			07:34	22.31			0.04
CWF	HZ	55.0	ES			07:34	28.89			-0.25
HLM1	HZ	76.3	EP			07:34	25.76			0.14
HLM1	HN	76.3	ES			07:34	34.91			-0.01
HLM1	HN	76.3	IAML			07:34	35.05	3	0.10	
HLM1	HE	76.3	IAML			07:34	35.11	3	0.17	
MCH1	HN	90.9	ES			07:34	38.60			-0.17
LBWR	HZ	118.0	EP			07:34	32.38			0.35
LBWR	HN	118.0	ES			07:34	45.93			-0.09
LBWR	HN	118.0	IAML			07:34	47.13	8	0.35	
LBWR	HE	118.0	IAML			07:34	47.40	9	0.20	

April 27 2017 Time: 10:38 32.7 UTC Magnitude: 1.7 ML
Lat: 54.773N Lon: -3.237W Depth: 4.1 km
Grid Ref: 320.43 kmE 542.72 kmN RMS: 0.20 secs
Locality: ASPATRIA,CUMBRIA
Velocity model: Borders Xnear: 75.0 Xfar: 200.0
Comment: 6KM EAST ASPATRIA

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KESW	HZ	22.2	EP			10:38	37.08			0.06
KESW	HN	22.2	ES			10:38	40.23			0.16
KESW	HE	22.2	IAML			10:38	40.54	49	0.08	
KESW	HN	22.2	IAML			10:38	41.43	42	0.26	
SPK	EZ	41.1	EP			10:38	40.10			0.04
SPK	EE	41.1	ES			10:38	45.18			-0.08
ESK	HZ	60.5	EP			10:38	43.46			0.21
ESK	HN	60.5	ES			10:38	50.57			-0.15
ESK	HN	60.5	IAML			10:38	51.20	25	0.15	
ESK	HE	60.5	IAML			10:38	51.24	39	0.06	
NEWG	HZ	74.3	EP			10:38	45.82			0.35
NEWG	HN	74.3	ES			10:38	54.58			0.07
NEWG	HE	74.3	IAML			10:38	55.42	13	0.17	
NEWG	HN	74.3	IAML			10:38	55.77	26	0.30	
EDMD	HZ	82.2	EP			10:38	46.88			0.15
EDMD	HN	82.2	ES			10:38	56.23			-0.44
EDMD	HE	82.2	IAML			10:38	58.26	106	0.16	
EDMD	HN	82.2	IAML			10:38	58.31	208	0.18	
GAL1	HZ	95.3	EP			10:38	48.98			0.10
GAL1	HN	95.3	ES			10:39	00.03			-0.32
GAL1	HN	95.3	IAML			10:39	00.81	16	0.16	
GAL1	HE	95.3	IAML			10:39	01.81	6	0.20	
IOMK	HZ	103.0	EP			10:38	50.07			-0.12
IOMK	HN	103.0	ES			10:39	02.54			-0.04
IOMK	HE	103.0	IAML			10:39	03.07	21	0.10	
IOMK	HN	103.0	IAML			10:39	04.17	44	0.09	
WIM	EZ	116.0	EP			10:38	51.90			-0.44
GDLE	HN	161.0	ES			10:39	17.39			0.38
GDLE	HN	161.0	IAML			10:39	17.84	35	0.32	
GDLE	HE	161.0	IAML			10:39	19.08	26	0.22	

April 28 2017 Time: 13:26 54.4 UTC Magnitude: 1.3 ML
Lat: 52.959N Lon: -3.394W Depth: 7.1 km
Grid Ref: 306.37 kmE 341.13 kmN RMS: 0.30 secs
Locality: CYNWYD,DENBIGHSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
FOEL	HZ	15.2	IP		D	13:26	57.62			-0.01
FOEL	HE	15.2	ES			13:27	00.03			0.02
FOEL	HE	15.2	IAML			13:27	00.33	67	0.10	
FOEL	HN	15.2	IAML			13:27	00.41	100	0.13	
YLL	EZ	55.8	EP			13:27	03.62			-0.31
HLM1	HZ	60.0	EP			13:27	04.59			-0.05
WLF1	HN	76.5	ES			13:27	16.18			-0.24
WLF1	HN	76.5	IAML			13:27	16.53	47	0.10	
WLF1	HE	76.5	IAML			13:27	16.57	10	0.09	
WME	EZ	77.9	EP			13:27	07.01			-0.34
WPS	HZ	88.7	EP			13:27	09.64			0.64
WPS	HE	88.7	ES			13:27	19.91			0.23

TABLE 2 : PHASE DATA

WPS	HN	88.7	IAML	13:27	20.14	9	0.30	
WPS	HE	88.7	IAML	13:27	21.01	5	0.40	
MCH1	HN	110.0	ES	13:27	25.50			-0.03
MCH1	HN	110.0	IAML	13:27	25.80	9	0.24	
MCH1	HE	110.0	IAML	13:27	26.40	4	0.14	
LBWR	HZ	122.0	EP	13:27	14.13			-0.10
MONM	HZ	131.0	EP	13:27	15.73			0.25
RSBS	HZ	145.0	EP	13:27	17.52			0.03
RSBS	HN	145.0	IAML	13:27	36.53	12	0.20	
RSBS	HE	145.0	IAML	13:27	37.16	8	0.10	
HPK	HZ	162.0	EP	13:27	19.98			0.06

May 3 2017 Time: 21:26 42.7 UTC Magnitude: 0.7 ML
Lat: 52.537N Lon: -1.850W Depth: 7.7 km
Grid Ref: 410.17 kmE 293.29 kmN RMS: 0.20 secs
Locality: ERDINGTON,WEST MIDLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CWF	HZ	43.0	EP			21:26	50.34			0.08
CWF	HE	43.0	ES			21:26	55.49			-0.27
CWF	HN	43.0	IAML			21:27	01.91	2	0.06	
CWF	HE	43.0	IAML			21:27	02.28	2	0.10	
HLM1	HZ	70.0	EP			21:26	54.61			0.12
HLM1	HE	70.0	ES			21:27	02.86			-0.23
HLM1	HE	70.0	IAML			21:27	03.14	10	0.12	
HLM1	HN	70.0	IAML			21:27	03.19	13	0.16	
STRD	HZ	87.4	EP			21:26	57.41			0.26
LBWR	HE	96.5	ES			21:27	10.28			0.10
LBWR	HE	96.5	IAML			21:27	10.53	6	0.46	
LBWR	HN	96.5	IAML			21:27	10.77	4	0.20	
MCH1	HZ	98.8	EP			21:26	58.93			0.01
MCH1	HE	98.8	ES			21:27	10.54			-0.20
MCH1	HN	98.8	IAML			21:27	10.85	2	0.34	
MCH1	HE	98.8	IAML			21:27	11.74	2	0.23	
FOEL	HE	99.3	ES			21:27	11.08			0.12

May 7 2017 Time: 04:47 41.3 UTC Magnitude: 0.5 ML
Lat: 52.982N Lon: -1.960W Depth: 11.7 km
Grid Ref: 402.69 kmE 342.77 kmN RMS: 0.10 secs
Locality: CHEADLE,STAFFORDSHIRE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
STNC	HZ	20.5	EP			04:47	45.52			0.05
STNC	HE	20.5	ES			04:47	48.78			0.24
STNC	HN	20.5	IAML			04:47	48.99	24	0.16	
STNC	HE	20.5	IAML			04:47	49.01	34	0.26	
LBWR	HZ	49.2	EP			04:47	49.83			-0.02
LBWR	HE	49.2	ES			04:47	56.00			-0.11
LBWR	HE	49.2	IAML			04:47	56.48	7	0.12	
LBWR	HN	49.2	IAML			04:47	56.55	4	0.23	
CWF	HZ	51.7	EP			04:47	50.32			0.12
CWF	HN	51.7	ES			04:47	56.71			-0.00
CWF	HE	51.7	IAML			04:47	57.26	2	0.25	
CWF	HN	51.7	IAML			04:47	57.74	3	0.19	
HLM1	HZ	80.8	EP			04:47	54.60			-0.14
HLM1	HN	80.8	ES			04:48	04.44			-0.14
HLM1	HE	80.8	IAML			04:48	05.76	1	0.30	
HLM1	HN	80.8	IAML			04:48	07.52	1	0.26	
FOEL	HZ	84.0	EP			04:47	55.05			-0.19
MCH1	HZ	130.0	EP			04:48	02.01			-0.01
MCH1	HN	130.0	ES			04:48	17.37			0.20
MCH1	HN	130.0	IAML			04:48	17.67	1	0.21	
MCH1	HE	130.0	IAML			04:48	19.06	2	0.44	

May 10 2017 Time: 10:22 43.3 UTC Magnitude: 2.0 ML
Lat: 51.353N Lon: 2.120W Depth: 6.5 km
Grid Ref: 686.82 kmE 169.66 kmN RMS: 0.50 secs
Locality: SOUTHERN NORTH SEA
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 50KM EAST RAMSGATE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
ELSH	HZ	72.4	EP			10:22	55.10			-0.68
ELSH	HE	72.4	IAML			10:22	57.98	37	0.10	
ELSH	HN	72.4	IAML			10:23	17.86	40	0.60	
ELMS	HZ	113.0	EP			10:23	01.77			-0.36
ELMS	HE	113.0	ES			10:23	15.33			-0.52
ELMS	HN	113.0	IAML			10:23	21.53	32	0.22	
ELMS	HE	113.0	IAML			10:23	24.78	42	0.49	
HMNX	HZ	136.0	EP			10:23	06.03			0.45
WACR	HZ	184.0	EP			10:23	12.76			0.56
WACR	HN	184.0	IAML			10:23	39.75	31	0.54	
WACR	HE	184.0	IAML			10:23	43.30	28	0.38	
DOU	HZ	224.0	EP			10:23	16.55			-0.69
HGN	BZ	275.0	EP			10:23	23.98			0.33
MCH1	HZ	361.0	EP			10:23	35.04			0.63
HLM1	HZ	367.0	EP			10:23	35.53			0.28

May 12 2017 Time: 17:36 12.3 UTC Magnitude: 0.9 ML
Lat: 53.176N Lon: -4.508W Depth: 10.7 km
Grid Ref: 232.40 kmE 367.29 kmN RMS: 0.40 secs
Locality: ABERFFRAW,ANGLESEY
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
YRC	EZ	9.5	EP			17:36	14.38			-0.53
WLF1	HZ	14.6	EP			17:36	16.06			0.48
WLF1	HN	14.6	ES			17:36	18.31			0.34
WLF1	HE	14.6	IAML			17:36	18.69	38	0.13	
WLF1	HN	14.6	IAML			17:36	18.72	41	0.09	
WPS	HZ	25.0	EP			17:36	17.64			0.56
WPS	HN	25.0	IAML			17:36	20.85	27	0.08	
WPS	HE	25.0	IAML			17:36	21.04	10	0.12	
WME	EZ	28.1	EP			17:36	17.08			-0.50
LLW	BZ	67.2	EP			17:36	23.50			-0.12
LLW	BN	67.2	ES			17:36	31.62			-0.26
LLW	BE	67.2	IAML			17:36	32.25	5	0.40	
LLW	BN	67.2	IAML			17:36	32.26	2	0.30	
FOEL	HZ	93.3	EP			17:36	27.65			-0.07
FOEL	HE	93.3	ES			17:36	38.71			-0.25
FOEL	HN	93.3	IAML			17:36	40.45	6	0.28	
FOEL	HE	93.3	IAML			17:36	41.64	6	0.34	
IOMK	HZ	121.0	EP			17:36	31.78			0.04
IOMK	HE	121.0	ES			17:36	45.39			-0.54
IOMK	HE	121.0	IAML			17:36	46.86	10	0.23	
IOMK	HN	121.0	IAML			17:36	47.02	6	0.19	
HLM1	HZ	132.0	EP			17:36	33.79			0.42
HLM1	HN	132.0	ES			17:36	49.34			0.59
HLM1	HN	132.0	IAML			17:36	51.30	4	0.22	
HLM1	HE	132.0	IAML			17:36	51.40	2	0.20	
RSBS	HZ	137.0	EP			17:36	34.51			0.41
RSBS	HE	137.0	ES			17:36	50.09			0.09
RSBS	HE	137.0	IAML			17:36	52.36	2	0.12	
RSBS	HN	137.0	IAML			17:36	53.06	2	0.08	

May 15 2017 Time: 12:04 30.1 UTC Magnitude: 0.9 ML
Lat: 54.776N Lon: -3.220W Depth: 4.5 km
Grid Ref: 321.53 kmE 543.04 kmN RMS: 0.20 secs
Locality: ASPATRIA,CUMBRIA
Velocity model: Borders Xnear: 75.0 Xfar: 200.0
Comment: 7KM EAST ASPATRIA

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KESW	HZ	22.2	EP			12:04	34.27			-0.07
KESW	HE	22.2	ES			12:04	37.52			0.13
KESW	HN	22.2	IAML			12:04	37.69	8	0.15	
KESW	HE	22.2	IAML			12:04	37.80	9	0.13	
ESK	HZ	60.1	EP			12:04	40.72			0.21
ESK	HE	60.1	ES			12:04	47.83			-0.10
ESK	HN	60.1	IAML			12:04	48.39	5	0.18	
ESK	HE	60.1	IAML			12:04	48.47	7	0.12	
NEWG	HZ	75.0	EP			12:04	43.17			0.26
NEWG	HN	75.0	ES			12:04	51.89			-0.15
NEWG	HE	75.0	IAML			12:04	52.69	4	0.13	
NEWG	HN	75.0	IAML			12:04	52.98	7	0.10	
EDMD	HZ	81.1	EP			12:04	44.05			0.17
EDMD	HN	81.1	ES			12:04	53.42			-0.27
EDMD	HN	81.1	IAML			12:04	55.59	38	0.35	
EDMD	HE	81.1	IAML			12:04	55.91	23	0.21	
IOMK	HZ	104.0	EP			12:04	47.51			-0.18
IOMK	HN	104.0	ES			12:05	00.08			-0.13

May 16 2017 Time: 04:30 39.7 UTC Magnitude: 1.9 ML
Lat: 53.825N Lon: -1.269W Depth: 6.0 km
Grid Ref: 448.11 kmE 436.80 kmN RMS: 0.10 secs
Locality: SAXTON,NORTH YORKSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
AU05	HZ	26.3	IP		C	04:30	44.74			0.07
AU05	HN	26.3	ES			04:30	47.97			-0.32
AU05	HE	26.3	IAML			04:30	49.04	188	0.33	
AU05	HN	26.3	IAML			04:30	49.53	220	0.26	
HPK	HZ	27.7	IP		D	04:30	44.97			0.02
HPK	HN	27.7	ES			04:30	49.00			0.23
HPK	HE	27.7	IAML			04:30	49.58	129	0.16	
HPK	HN	27.7	IAML			04:30	49.68	172	0.25	
AU07	HZ	37.8	EP			04:30	46.43			-0.10
AU07	HN	37.8	ES			04:30	51.57			0.05
AU07	HE	37.8	IAML			04:30	52.28	178	0.27	
AU07	HN	37.8	IAML			04:30	52.32	154	0.27	
AU09	HZ	43.4	EP			04:30	47.35			-0.05
AU09	HE	43.4	ES			04:30	53.13			0.11
AU09	HE	43.4	IAML			04:30	53.89	101	0.17	
AU09	HN	43.4	IAML			04:30	53.94	108	0.37	
AU11	HZ	46.9	EP			04:30	47.98			0.05
AU11	HE	46.9	ES			04:30	53.94			0.00
AU11	HN	46.9	IAML			04:30	54.71	27	0.11	
AU11	HE	46.9	IAML			04:30	54.83	41	0.21	
AU14	EZ	50.9	IP		D	04:30	48.62			0.08
AU08	HZ	51.9	IP		C	04:30	48.79			0.06
AU13	HZ	52.0	IP		C	04:30	48.78			0.06

TABLE 2 : PHASE DATA

LBWR	HZ	55.9	IP	C	04:30	49.30			-0.09
LBWR	HE	55.9	ES		04:30	56.26			-0.20
LBWR	HE	55.9	IAML		04:30	56.69	166	0.10	
LBWR	HN	55.9	IAML		04:30	57.32	157	0.16	
AU20	HZ	60.7	IP	C	04:30	50.13			0.04
GDLE	HZ	72.7	IP	D	04:30	51.97			0.00
GDLE	HN	72.7	ES		04:31	00.69			-0.23
GDLE	HE	72.7	IAML		04:31	02.79	111	0.26	
GDLE	HN	72.7	IAML		04:31	02.82	199	0.25	
LMK	HZ	74.6	IP	D	04:30	52.41			0.17
LMK	HN	74.6	ES		04:31	01.65			0.25
LMK	HN	74.6	IAML		04:31	02.24	78	0.33	
LMK	HE	74.6	IAML		04:31	03.73	68	0.35	
EDMD	HZ	121.0	IP	C	04:30	59.10			-0.27
KESW	HZ	147.0	EP		04:31	03.17			-0.06

May 17 2017 Time: 19:44 27.4 UTC Magnitude: 1.0 ML
Lat: 49.669N Lon: -2.379W Depth: 9.0 km
Grid Ref: 372.65 kmE -25.56 kmN RMS: 0.20 secs
Locality: ALDERNEY,CHANNEL ISLES
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 10KM WSW ALDERNEY

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
JSA	HZ	55.6	EP			19:44	36.81			-0.21
JSA	HE	55.6	ES			19:44	44.17			0.13
JSA	HE	55.6	IAML			19:44	45.00	6	0.22	
JSA	HN	55.6	IAML			19:44	46.15	5	0.12	
JQE	EZ	57.7	EP			19:44	37.20			-0.13
JQE	EZ	57.7	ES			19:44	44.63			0.06
DYA	HZ	140.0	EP			19:44	49.51			0.36
DYA	HN	140.0	ES			19:45	04.81			-0.21
DYA	HN	140.0	IAML			19:45	06.21	7	0.22	
DYA	HE	140.0	IAML			19:45	06.90	4	0.22	

May 18 2017 Time: 00:14 06.8 UTC Magnitude: 0.6 ML
Lat: 56.340N Lon: -6.072W Depth: 6.2 km
Grid Ref: 148.38 kmE 723.84 kmN RMS: 0.20 secs
Locality: MULL,ARGYLL & BUTE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	42.6	IP	C		00:14	14.36			-0.04
LAWE	HN	42.6	ES			00:14	19.52			-0.40
LAWE	HN	42.6	IAML			00:14	19.68	6	0.22	
LAWE	HE	42.6	IAML			00:14	20.17	4	0.08	
KPL	HZ	114.0	EP			00:14	25.36			-0.11
KPL	HE	114.0	ES			00:14	38.97			-0.11
KPL	HE	114.0	IAML			00:14	41.89	2	0.16	
KPL	HN	114.0	IAML			00:14	42.78	1	0.18	
INVG	HZ	126.0	EP			00:14	27.67			0.37
INVG	HE	126.0	ES			00:14	42.52			0.28
INVG	HE	126.0	IAML			00:14	44.26	1	0.07	
INVG	HN	126.0	IAML			00:14	44.77	1	0.13	
CLGH	HZ	140.0	EP			00:14	29.46			0.13
CLGH	HN	140.0	ES			00:14	45.64			-0.12
CLGH	HN	140.0	IAML			00:14	47.42	2	0.22	
CLGH	HE	140.0	IAML			00:14	47.43	2	0.36	

May 18 2017 Time: 23:04 14.6 UTC Magnitude: 0.9 ML
Lat: 53.042N Lon: -5.430W Depth: 13.9 km
Grid Ref: 170.10 kmE 354.95 kmN RMS: 0.30 secs
Locality: IRISH SEA
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 40KM ENE WICKLOW

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WPS	HZ	73.9	EP			23:04	27.54			0.54
WPS	HN	73.9	ES			23:04	35.86			-0.16
WPS	HN	73.9	IAML			23:04	36.67	2	0.18	
WPS	HE	73.9	IAML			23:04	38.72	1	0.34	
WLF1	HZ	74.4	EP			23:04	27.49			0.41
WLF1	HN	74.4	ES			23:04	35.91			-0.25
WLF1	HN	74.4	IAML			23:04	38.94	6	0.10	
WLF1	HE	74.4	IAML			23:04	39.83	4	0.10	
WME	EZ	85.0	EP			23:04	28.35			-0.38
LLW	BZ	121.0	EP			23:04	34.00			0.14
RSBS	HZ	130.0	EP			23:04	34.83			-0.38
WIM	EZ	133.0	EP			23:04	35.14			-0.53
IOMK	HZ	147.0	EP			23:04	37.74			0.07
IOMK	HN	147.0	ES			23:04	54.73			0.25
IOMK	HE	147.0	IAML			23:04	55.66	4	0.18	
IOMK	HN	147.0	IAML			23:04	56.28	3	0.10	
FOEL	HZ	151.0	EP			23:04	38.18			-0.06
FOEL	HN	151.0	ES			23:04	55.91			0.45
FOEL	HE	151.0	IAML			23:04	57.32	7	0.52	
FOEL	HN	151.0	IAML			23:04	58.29	4	0.42	

May 19 2017 Time: 23:14 23.5 UTC Magnitude: 1.8 ML
Lat: 57.050N Lon: -5.742W Depth: 7.5 km
Grid Ref: 173.07 kmE 801.64 kmN RMS: 0.30 secs
Locality: KNOYDART,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 250.0
Comment: FELT KNOYDART... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	32.7	EP			23:14	29.45			0.04
KPL	HE	32.7	ES			23:14	33.38			-0.34
KPL	HN	32.7	IAML			23:14	33.80	30	0.23	
KPL	HE	32.7	IAML			23:14	33.91	107	0.23	
LAWE	HZ	90.4	IP	C		23:14	38.47			0.09
LAWE	HE	90.4	ES			23:14	48.83			-0.42
LAWE	HE	90.4	IAML			23:14	49.48	38	0.25	
LAWE	HN	90.4	IAML			23:14	53.68	47	0.18	
INVG	HZ	125.0	EP			23:14	44.05			0.31
INVG	HN	125.0	ES			23:14	58.35			-0.16
INVG	HN	125.0	IAML			23:14	59.78	27	0.09	
INVG	HE	125.0	IAML			23:15	01.24	29	0.13	
LINV	HZ	126.0	EP			23:14	44.22			0.30
LINV	HE	126.0	IAML			23:15	00.95	21	0.11	
LINV	HN	126.0	IAML			23:15	01.17	14	0.17	
LEWI	HZ	139.0	IP	C		23:14	45.87			0.07
LEWI	HE	139.0	ES			23:15	02.05			-0.03
LEWI	HN	139.0	IAML			23:15	03.01	17	0.27	
LEWI	HE	139.0	IAML			23:15	03.03	26	0.29	
PGB1	HZ	158.0	EP			23:14	49.33			0.85
DRUM	HZ	198.0	EP			23:14	53.67			0.00
CLGH	HZ	220.0	EP			23:14	55.95			-0.44
NEWG	HZ	235.0	EP			23:14	58.29			0.09
GAL1	HZ	251.0	EP			23:15	00.27			0.00

May 20 2017 Time: 03:51 58.1 UTC Magnitude: 0.6 ML
Lat: 57.051N Lon: -5.738W Depth: 7.5 km
Grid Ref: 173.32 kmE 801.74 kmN RMS: 0.30 secs
Locality: KNOYDART,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 250.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	32.5	EP			03:52	03.87			-0.11
KPL	HN	32.5	ES			03:52	08.00			-0.27
KPL	HE	32.5	IAML			03:52	08.30	8	0.22	
KPL	HN	32.5	IAML			03:52	08.32	2	0.24	
LAWE	HZ	90.5	EP			03:52	13.47			0.47
LAWE	HE	90.5	ES			03:52	23.42			-0.46
LAWE	HE	90.5	IAML			03:52	23.86	2	0.19	
LAWE	HN	90.5	IAML			03:52	24.86	2	0.12	
INVG	HZ	125.0	EP			03:52	18.65			0.32
INVG	HE	125.0	ES			03:52	32.90			-0.19
INVG	HN	125.0	IAML			03:52	34.29	2	0.10	
INVG	HE	125.0	IAML			03:52	35.76	2	0.12	
LINV	HZ	126.0	EP			03:52	19.04			0.55
LINV	HE	126.0	IAML			03:52	35.44	1	0.13	
LINV	HN	126.0	IAML			03:52	36.87	1	0.18	
LEWI	HZ	139.0	EP			03:52	20.41			0.01
LEWI	HE	139.0	ES			03:52	36.50			-0.18
LEWI	HE	139.0	IAML			03:52	37.96	2	0.28	
LEWI	HN	139.0	IAML			03:52	38.11	3	0.57	

May 22 2017 Time: 15:33 31.6 UTC Magnitude: 1.7 ML
Lat: 53.503N Lon: -0.899W Depth: 4.8 km
Grid Ref: 473.02 kmE 401.29 kmN RMS: 0.30 secs
Locality: HAXEY,NORTH LINCS
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LMK	HZ	38.3	EP			15:33	38.75			0.10
LMK	HE	38.3	ES			15:33	43.96			0.20
LMK	HE	38.3	IAML			15:33	45.12	105	0.16	
LMK	HN	38.3	IAML			15:33	45.29	104	0.16	
AU05	HZ	39.7	EP			15:33	39.00			0.16
LBWR	HZ	56.0	EP			15:33	41.65			0.22
LBWR	HE	56.0	ES			15:33	49.25			0.68
LBWR	HN	56.0	IAML			15:33	50.14	50	0.22	
LBWR	HE	56.0	IAML			15:33	50.98	64	0.22	
AU07	HZ	67.9	EP			15:33	43.42			0.21
AU07	HE	67.9	ES			15:33	51.79			0.13
AU07	HN	67.9	IAML			15:33	52.58	48	0.30	
AU07	HE	67.9	IAML			15:33	52.95	34	0.34	
HPK	HZ	69.7	EP			15:33	43.52			0.00
HPK	HN	69.7	ES			15:33	51.84			-0.36
HPK	HE	69.7	IAML			15:33	53.06	60	0.25	
HPK	HN	69.7	IAML			15:33	54.06	61	0.26	
AU08	HN	70.8	ES			15:33	52.64			0.16
AU08	HE	70.8	IAML			15:33	52.94	50	0.18	
AU08	HN	70.8	IAML			15:33	53.14	52	0.14	
AT08	HZ	71.6	EP			15:33	43.58			-0.20
AT08	HE	71.6	ES			15:33	52.73			0.09
AU13	H2	77.8	ES			15:33	54.34			0.04
AU13	H1	77.8	IAML			15:33	54.97	40	0.25	
AU13	H2	77.8	IAML			15:33	55.44	50	0.50	
AV06	HZ	78.4	EP			15:33	45.00			0.13
AV06	HE	78.4	IAML			15:33	55.56	24	0.26	
AV06	HN	78.4	IAML			15:33	55.71	21	0.20	
CWF	HZ	89.4	EP			15:33	46.26			-0.31

TABLE 2 : PHASE DATA

CWF	HN	89.4	ES	15:33	57.08			-0.39
CWF	HN	89.4	IAML	15:33	58.20	18	0.11	
CWF	HE	89.4	IAML	15:33	58.24	29	0.10	
AT10	HZ	98.2	EP	15:33	47.72			-0.24
AT10	HE	98.2	ES	15:33	59.64			-0.23
GDLE	HZ	102.0	EP	15:33	48.41			-0.18
GDLE	HE	102.0	ES	15:34	00.75			-0.22
GDLE	HE	102.0	IAML	15:34	01.58	22	0.28	
GDLE	HN	102.0	IAML	15:34	01.74	33	0.38	

May 22 2017 Time: 21:57 52.6 UTC Magnitude: 1.1 ML
Lat: 57.040N Lon: -5.744W Depth: 7.7 km
Grid Ref: 172.89 kmE 800.53 kmN RMS: 0.40 secs
Locality: KNOYDART,HIGHLAND
Velocity model: Lownet Xnear: 1500.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	33.7	EP			21:57	58.55			-0.14
KPL	HE	33.7	ES			21:58	02.47			-0.65
KPL	HE	33.7	IAML			21:58	03.01	28	0.21	
KPL	HN	33.7	IAML			21:58	03.02	7	0.23	
LAWE	HZ	89.4	EP			21:58	07.62			0.26
LAWE	HE	89.4	ES			21:58	17.93			-0.18
LAWE	HN	89.4	IAML			21:58	22.79	9	0.17	
LAWE	HE	89.4	IAML			21:58	22.89	8	0.26	
INVG	HZ	124.0	IP		C	21:58	13.07			0.28
INVG	HN	124.0	ES			21:58	27.43			-0.09
INVG	HN	124.0	IAML			21:58	28.89	5	0.09	
INVG	HE	124.0	IAML			21:58	30.37	5	0.15	
LINV	HZ	128.0	EP			21:58	13.94			0.76
LINV	HE	128.0	ES			21:58	28.83			0.64
LINV	HE	128.0	IAML			21:58	30.03	4	0.10	
LINV	HN	128.0	IAML			21:58	30.28	3	0.17	
LEWI	HZ	140.0	EP			21:58	14.96			-0.07
LEWI	HN	140.0	ES			21:58	31.05			-0.34
LEWI	HE	140.0	IAML			21:58	32.11	6	0.26	
LEWI	HN	140.0	IAML			21:58	33.05	4	0.14	
PGB1	HE	157.0	ES			21:58	35.57			-0.06
DRUM	HN	199.0	ES			21:58	44.42			-0.40
DRUM	HE	199.0	IAML			21:58	49.73	4	0.25	
DRUM	HN	199.0	IAML			21:58	50.99	6	0.47	
CLGH	HZ	219.0	EP			21:58	25.53			0.16
CLGH	HN	219.0	ES			21:58	48.62			-0.65
CLGH	HN	219.0	IAML			21:58	50.01	1	0.20	
CLGH	HE	219.0	IAML			21:58	53.51	1	0.21	
NEWG	HZ	234.0	EP			21:58	27.55			0.35
NEWG	HE	234.0	ES			21:58	52.34			-0.10
NEWG	HN	234.0	IAML			21:58	59.50	2	0.33	
NEWG	HE	234.0	IAML			21:58	60.00	2	0.23	
ESK	HZ	248.0	EP			21:58	29.86			0.83
ESK	HN	248.0	ES			21:58	55.57			-0.03

May 25 2017 Time: 02:09 54.7 UTC Magnitude: 1.2 ML
Lat: 52.673N Lon: -1.860W Depth: 3.0 km
Grid Ref: 409.47 kmE 308.41 kmN RMS: 0.40 secs
Locality: LICHFIELD,STAFFORDSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CWF	HZ	38.0	IP		C	02:10	01.64			0.01
CWF	HE	38.0	ES			02:10	05.93			-0.77
CWF	HE	38.0	IAML			02:10	01.75	20	0.22	
CWF	HN	38.0	IAML			02:10	06.13	16	0.10	
STNC	HZ	52.1	EP			02:10	04.04			0.09
STNC	HE	52.1	ES			02:10	10.80			0.08
STNC	HE	52.1	IAML			02:10	11.17	28	0.20	
STNC	HN	52.1	IAML			02:10	11.21	19	0.10	
HLM1	HZ	71.3	EP			02:10	06.85			-0.12
HLM1	HN	71.3	ES			02:10	15.38			-0.56
HLM1	HN	71.3	IAML			02:10	15.55	7	0.10	
HLM1	HE	71.3	IAML			02:10	15.61	4	0.10	
LBWR	HZ	81.6	EP			02:10	08.84			0.29
LBWR	HN	81.6	IAML			02:10	19.43	20	0.18	
LBWR	HE	81.6	IAML			02:10	19.88	18	0.24	
FOEL	HZ	93.6	EP			02:10	11.03			0.60
FOEL	HE	93.6	ES			02:10	21.56			-0.36
FOEL	HN	93.6	IAML			02:10	22.75	5	0.16	
FOEL	HE	93.6	IAML			02:10	23.70	5	0.38	
MCH1	HZ	108.0	EP			02:10	12.73			0.10
MCH1	HN	108.0	ES			02:10	25.28			-0.44
MCH1	HE	108.0	IAML			02:10	26.60	9	0.24	
MCH1	HN	108.0	IAML			02:10	29.48	8	0.12	
MONM	HZ	113.0	EP			02:10	13.98			0.60
MONM	HN	113.0	ES			02:10	27.37			0.35
MONM	HE	113.0	IAML			02:10	30.03	13	0.14	
MONM	HN	113.0	IAML			02:10	30.13	16	0.12	
LMK	HZ	135.0	EP			02:10	17.20			0.47
WACR	HZ	168.0	EP			02:10	22.14			0.65
WACR	HE	168.0	ES			02:10	41.57			0.50
WACR	HN	168.0	IAML			02:10	42.44	7	0.16	
WACR	HE	168.0	IAML			02:10	43.13	5	0.18	

May 26 2017 Time: 21:26 06.3 UTC Magnitude: 1.2 ML
Lat: 50.631N Lon: -3.324W Depth: 8.4 km
Grid Ref: 306.37 kmE 82.16 kmN RMS: 0.30 secs
Locality: EXMOUTH,DEVON
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
DYA	HZ	48.2	IP		D	21:26	14.33			-0.36
DYA	HN	48.2	ES			21:26	20.80			-0.01
DYA	HN	48.2	IAML			21:26	21.61	5	0.07	
DYA	HE	48.2	IAML			21:26	21.83	4	0.18	
HTL	HZ	91.3	EP			21:26	21.93			0.60
HTL	HE	91.3	ES			21:26	31.98			-0.30
HTL	HN	91.3	IAML			21:26	34.87	13	0.11	
HTL	HE	91.3	IAML			21:26	35.63	15	0.25	
CCA1	HZ	144.0	EP			21:26	29.19			-0.04
CCA1	HN	144.0	ES			21:26	46.45			0.49
CCA1	HN	144.0	IAML			21:26	48.19	5	0.12	
CCA1	HE	144.0	IAML			21:26	48.34	4	0.13	
MCH1	HZ	154.0	EP			21:26	30.59			-0.03
MCH1	HE	154.0	ES			21:26	48.21			-0.15
MCH1	HN	154.0	IAML			21:26	50.04	7	0.24	
MCH1	HE	154.0	IAML			21:26	50.22	5	0.15	
RSBS	HZ	177.0	EP			21:26	33.45			-0.34
RSBS	HE	177.0	ES			21:26	53.46			-0.38
RSBS	HN	177.0	IAML			21:26	56.74	1	0.20	
RSBS	HE	177.0	IAML			21:26	58.38	2	0.10	
HLM1	HZ	212.0	EP			21:26	39.18			1.00
HLM1	HN	212.0	ES			21:27	02.55			1.11
HLM1	HN	212.0	IAML			21:27	04.53	3	0.28	
HLM1	HE	212.0	IAML			21:27	05.00	4	0.29	

May 26 2017 Time: 21:59 25.8 UTC Magnitude: 0.7 ML
Lat: 56.076N Lon: -6.025W Depth: 2.5 km
Grid Ref: 149.56 kmE 694.32 kmN RMS: 0.20 secs
Locality: JURA,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0
Comment: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	43.9	EP			21:59	33.58			-0.20
LAWE	HE	43.9	ES			21:59	39.58			0.01
LAWE	HN	43.9	IAML			21:59	39.98	5	0.27	
LAWE	HE	43.9	IAML			21:59	40.11	3	0.15	
CLGH	HZ	111.0	EP			21:59	44.52			0.28
CLGH	HN	111.0	ES			21:59	57.49			-0.19
CLGH	HE	111.0	IAML			21:59	59.11	4	0.50	
CLGH	HN	111.0	IAML			21:59	59.25	4	0.18	
INVG	HZ	129.0	EP			21:59	47.55			0.49
INVG	HN	129.0	ES			22:00	02.82			0.27
INVG	HE	129.0	IAML			22:00	05.00	2	0.26	
INVG	HN	129.0	IAML			22:00	05.04	2	0.10	

May 29 2017 Time: 01:10 02.9 UTC Magnitude: 1.3 ML
Lat: 53.014N Lon: -4.463W Depth: 4.6 km
Grid Ref: 234.79 kmE 349.17 kmN RMS: 0.40 secs
Locality: CAERNARFON BAY
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
YRC	EZ	27.4	EP			01:10	07.57			-0.43
WLF1	HZ	31.0	EP			01:10	08.99			0.38
WLF1	HE	31.0	ES			01:10	12.77			-0.03
WLF1	HE	31.0	IAML			01:10	12.96	90	0.08	
WLF1	HN	31.0	IAML			01:10	13.44	48	0.07	
WPS	HZ	43.1	EP			01:10	10.97			0.37
WPS	HE	43.1	ES			01:10	16.17			-0.07
WPS	HE	43.1	IAML			01:10	16.86	14	0.32	
WPS	HN	43.1	IAML			01:10	17.29	14	0.24	
FOEL	HZ	86.0	EP			01:10	17.28			-0.06
FOEL	HE	86.0	ES			01:10	27.52			-0.38
FOEL	HN	86.0	IAML			01:10	28.52	12	0.22	
FOEL	HE	86.0	IAML			01:10	29.18	19	0.38	
RSBS	HZ	120.0	EP			01:10	22.48			-0.03
RSBS	HE	120.0	ES			01:10	36.59			-0.26
RSBS	HN	120.0	IAML			01:10	38.69	6	0.16	
RSBS	HE	120.0	IAML			01:10	38.97	6	0.06	
HLM1	HZ	120.0	EP			01:10	22.94			0.30
HLM1	HN	120.0	IAML			01:10	39.25	5	0.12	
HLM1	HE	120.0	IAML			01:10	39.31	6	0.14	
IOMK	HZ	139.0	EP			01:10	25.05			-0.32
MCH1	HZ	151.0	EP			01:10	27.28			0.24
MCH1	HN	151.0	ES			01:10	45.73			1.04
MCH1	HN	151.0	IAML			01:10	47.00	6	0.15	
MCH1	HE	151.0	IAML			01:10	47.07	8	0.14	
MONM	HZ	173.0	EP			01:10	30.57			0.43

May 30 2017 Time: 22:15 35.9 UTC Magnitude: 0.5 ML
Lat: 56.403N Lon: -5.657W Depth: 3.5 km
Grid Ref: 174.38 kmE 729.41 kmN RMS: 0.30 secs
Locality: MULL,ARGYLL & BUTE

TABLE 2 : PHASE DATA

Velocity model: Lownet Xnear: 100.0 Xfar: 150.0
Comment: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	22.6	IP		C	22:15	40.43			0.01
LAWE	HE	22.6	ES			22:15	43.23			-0.48
LAWE	HN	22.6	IAML			22:15	43.74	9	0.08	
LAWE	HE	22.6	IAML			22:15	43.82	6	0.24	
PGB1	HE	98.4	ES			22:16	05.24			0.48
PGB1	HN	98.4	IAML			22:16	06.74	2	0.15	
PGB1	HE	98.4	IAML			22:16	06.95	2	0.20	
INVG	HZ	99.6	EP			22:15	52.93			0.13
INVG	HE	99.6	ES			22:16	05.05			-0.07
INVG	HE	99.6	IAML			22:16	06.16	2	0.10	
INVG	HN	99.6	IAML			22:16	06.75	2	0.22	
KPL	HZ	104.0	EP			22:15	53.36			-0.09

May 31 2017 Time: 06:25 10.6 UTC Magnitude: 1.0 ML
Lat: 49.021N Lon: -1.698W Depth: 7.7 km
Grid Ref: 422.08 kmE -97.62 kmN RMS: 0.00 secs
Locality: JERSEY,CHANNEL ISLANDS
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 30KM SE JERSEY

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
JQE	EZ	31.8	EP			06:25	16.61			0.03
JQE	EZ	31.8	ES			06:25	20.93			-0.02
JSA	HZ	39.2	EP			06:25	17.65			-0.03
JSA	HN	39.2	ES			06:25	22.86			0.02
JSA	HN	39.2	IAML			06:25	23.23	15	0.11	
JSA	HE	39.2	IAML			06:25	23.28	14	0.13	
DYA	HN	225.0	ES			06:26	07.44			0.00

June 2 2017 Time: 20:08 46.1 UTC Magnitude: 2.0 ML
Lat: 56.906N Lon: -5.046W Depth: 7.5 km
Grid Ref: 214.55 kmE 783.52 kmN RMS: 0.60 secs
Locality: SPEAN BRIDGE,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT SPEAN BRIDGE... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	60.6	EP			20:08	56.53			0.20
KPL	HN	60.6	ES			20:09	03.49			-0.32
KPL	HN	60.6	IAML			20:09	07.54	66	0.12	
KPL	HE	60.6	IAML			20:09	07.62	71	0.15	
LAWE	HZ	75.2	IP		D	20:08	58.54			-0.08
LAWE	HE	75.2	ES			20:09	07.55			-0.21
LAWE	HE	75.2	IAML			20:09	08.42	27	0.15	
LAWE	HN	75.2	IAML			20:09	10.72	42	0.14	
INVG	HZ	81.4	IP		C	20:08	59.63			0.02
INVG	HN	81.4	ES			20:09	08.73			-0.74
INVG	HN	81.4	IAML			20:09	12.37	63	0.14	
INVG	HE	81.4	IAML			20:09	12.42	66	0.11	
PGB1	HZ	127.0	EP			20:09	07.32			0.73
PGB1	HE	127.0	ES			20:09	22.20			0.65
PGB1	HE	127.0	IAML			20:09	22.90	50	0.40	
PGB1	HN	127.0	IAML			20:09	23.65	81	0.32	
DRUM	HZ	156.0	IP		D	20:09	11.90			1.15
DRUM	HN	156.0	IAML			20:09	31.98	28	0.25	
DRUM	HE	156.0	IAML			20:09	32.15	23	0.10	
EDI	HZ	159.0	EP			20:09	12.21			1.10
LEWI	HZ	176.0	EP			20:09	12.71			-0.75
BIGH	HZ	189.0	EP			20:09	16.30			1.22
NEWG	HZ	206.0	EP			20:09	16.99			-0.15
ESK	HZ	211.0	EP			20:09	18.39			0.57
GAL1	HZ	228.0	EP			20:09	19.62			-0.33

June 3 2017 Time: 20:44 50.7 UTC Magnitude: 0.5 ML
Lat: 53.359N Lon: -3.309W Depth: 15.3 km
Grid Ref: 312.89 kmE 385.51 kmN RMS: 0.30 secs
Locality: TALACRE,FLINTSHIRE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
FOEL	HZ	52.7	EP			20:44	59.45			-0.47
FOEL	HN	52.7	ES			20:45	06.73			0.08
LLW	BZ	61.5	EP			20:45	00.90			-0.31
LLW	BE	61.5	ES			20:45	08.80			-0.08
LLW	BE	61.5	IAML			20:45	09.40	1	0.15	
LLW	BN	61.5	IAML			20:45	09.45	1	0.12	
WLF1	HZ	72.9	EP			20:45	03.03			0.10
WLF1	HN	72.9	ES			20:45	11.80			-0.05
WLF1	HN	72.9	IAML			20:45	13.26	2	0.10	
WLF1	HE	72.9	IAML			20:45	15.38	2	0.02	
WPS	HZ	79.3	EP			20:45	04.34			0.43
WPS	HN	79.3	ES			20:45	14.12			0.57
HLM1	HZ	97.9	EP			20:45	06.66			0.02
HLM1	HN	97.9	ES			20:45	18.32			0.04
HLM1	HN	97.9	IAML			20:45	21.80	1	0.11	
HLM1	HE	97.9	IAML			20:45	21.97	2	0.20	
LBWR	HZ	106.0	EP			20:45	07.53			-0.19
LBWR	HE	106.0	ES			20:45	20.63			0.48
IOMK	HE	130.0	ES			20:45	25.54			-0.62
IOMK	HN	130.0	IAML			20:45	26.88	2	0.19	
IOMK	HE	130.0	IAML			20:45	27.25	3	0.20	

June 5 2017 Time: 13:17 54.7 UTC Magnitude: 2.1 ML
Lat: 53.256N Lon: -0.440W Depth: 2.7 km
Grid Ref: 504.06 kmE 374.39 kmN RMS: 0.10 secs
Locality: LINCOLN,LINCOLNSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 120.0
Comment: FELT REEPHAM... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LMK	HZ	23.6	EP			13:17	59.16			-0.05
LMK	HE	23.6	ES			13:18	02.40			-0.09
LMK	HE	23.6	IAML			13:18	09.51	1064	0.38	
LMK	HN	23.6	IAML			13:18	13.53	756	0.42	
CWF	HZ	81.9	EP			13:18	08.67			0.05
CWF	HN	81.9	ES			13:18	18.55			-0.23
CWF	HN	81.9	IAML			13:18	22.41	27	0.34	
CWF	HE	81.9	IAML			13:18	23.51	24	0.10	
LBWR	HZ	87.1	EP			13:18	09.43			-0.03
LBWR	HE	87.1	ES			13:18	20.41			0.18
LBWR	HN	87.1	IAML			13:18	24.70	78	0.24	
LBWR	HE	87.1	IAML			13:18	24.89	93	0.22	
WACR	HZ	92.9	EP			13:18	10.46			0.15
WACR	HN	92.9	IAML			13:18	28.08	28	0.62	
WACR	HE	92.9	IAML			13:18	30.04	21	0.18	
HPK	HZ	111.0	EP			13:18	13.25			0.15
HPK	HE	111.0	IAML			13:18	30.17	59	0.20	
HPK	HN	111.0	IAML			13:18	30.70	49	0.16	
GDLE	HZ	132.0	EP			13:18	17.31			0.89
GDLE	HE	132.0	IAML			13:18	35.01	37	0.16	
GDLE	HN	132.0	IAML			13:18	38.63	57	0.36	
HLM1	HZ	184.0	EP			13:18	24.18			0.55
HLM1	HE	184.0	IAML			13:18	49.24	26	0.22	
HLM1	HN	184.0	IAML			13:18	49.37	20	0.26	
EDMD	HZ	202.0	EP			13:18	27.52			1.72
STRD	HZ	202.0	EP			13:18	28.38			2.51
STRD	HE	202.0	IAML			13:18	55.06	47	0.44	
STRD	HN	202.0	IAML			13:18	56.88	48	0.48	
MCH1	HZ	223.0	EP			13:18	30.13			1.66
MCH1	HN	223.0	IAML			13:18	58.73	15	0.22	
MCH1	HE	223.0	IAML			13:18	59.55	13	0.62	

June 6 2017 Time: 00:05 43.1 UTC Magnitude: 1.0 ML
Lat: 56.128N Lon: -3.945W Depth: 7.5 km
Grid Ref: 279.12 kmE 694.50 kmN RMS: 0.50 secs
Locality: STIRLING,STIRLING
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
INVG	HZ	33.8	IP		C	00:05	49.21			-0.07
INVG	HN	33.8	ES			00:05	53.60			-0.16
INVG	HE	33.8	IAML			00:05	53.72	13	0.10	
INVG	HN	33.8	IAML			00:05	54.57	15	0.29	
PGB1	HZ	48.8	EP			00:05	51.40			-0.18
PGB1	HE	48.8	ES			00:05	57.50			-0.24
PGB1	HN	48.8	IAML			00:05	57.89	13	0.25	
PGB1	HE	48.8	IAML			00:05	58.42	17	0.53	
EDI	HZ	52.4	EP			00:05	52.20			0.06
EDI	HE	52.4	ES			00:05	58.35			-0.35
EDI	HN	52.4	IAML			00:05	58.74	13	0.15	
EDI	HE	52.4	IAML			00:05	58.83	16	0.22	
LAWE	HZ	91.4	EP			00:05	59.31			1.12
LAWE	HE	91.4	ES			00:06	08.57			-0.60
LAWE	HN	91.4	IAML			00:06	11.27	6	0.17	
LAWE	HE	91.4	IAML			00:06	12.74	4	0.13	
ESK	HZ	102.0	EP			00:06	00.21			0.42
NEWG	HZ	114.0	EP			00:06	01.49			-0.19
DRUM	HZ	125.0	EP			00:06	03.37			-0.04
GAL1	HZ	149.0	EP			00:06	07.06			0.32
KPL	HZ	171.0	EP			00:06	09.96			0.18
CLGH	HZ	179.0	EP			00:06	12.74			1.81

June 6 2017 Time: 18:48 48.8 UTC Magnitude: 1.1 ML
Lat: 52.472N Lon: -3.717W Depth: 5.6 km
Grid Ref: 283.39 kmE 287.43 kmN RMS: 0.30 secs
Locality: LLANGURIG,POWYS
Velocity model: Mid Wales Xnear: 80.0 Xfar: 200.0
Comment: 10KM NW LLANGURIG

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LLW	BZ	42.2	EP			18:48	56.23			0.12
LLW	BE	42.2	ES			18:49	01.28			-0.09
LLW	BE	42.2	IAML			18:49	01.94	14	0.15	
LLW	BN	42.2	IAML			18:49	02.32	8	0.30	
LPW	HZ	46.4	EP			18:48	56.63			-0.18
LPW	HE	46.4	ES			18:49	02.65			0.07
LPW	HE	46.4	IAML			18:49	03.62	12	0.10	
LPW	HN	46.4	IAML			18:49	03.77	8	0.10	
HLM1	HZ	57.0	EP			18:48	58.76			0.17
HLM1	HN	57.0	ES			18:49	05.55			-0.09
HLM1	HN	57.0	IAML			18:49	05.89	16	0.14	

TABLE 2 : PHASE DATA

HLM1	HE	57.0	IAML	18:49	05.96	12	0.26	
FOEL	HZ	58.2	EP	18:48	58.78			-0.00
FOEL	HN	58.2	ES	18:49	06.11			0.14
FOEL	HN	58.2	IAML	18:49	06.60	5	0.30	
FOEL	HE	58.2	IAML	18:49	07.74	6	0.24	
MCH1	HZ	72.1	EP	18:49	01.15			0.09
MCH1	HN	72.1	ES	18:49	09.58			-0.30
MCH1	HN	72.1	IAML	18:49	09.76	12	0.14	
MCH1	HE	72.1	IAML	18:49	10.19	7	0.12	
YLL	EZ	80.4	ES	18:49	11.70			-0.55
RSBS	HZ	90.9	EP	18:49	04.06			-0.12
RSBS	HN	90.9	ES	18:49	15.38			0.14
RSBS	HE	90.9	IAML	18:49	15.81	9	0.07	
RSBS	HN	90.9	IAML	18:49	17.04	8	0.10	
MONM	HZ	94.1	EP	18:49	04.80			0.11
MONM	HN	94.1	IAML	18:49	16.24	7	0.24	
MONM	HE	94.1	IAML	18:49	16.36	7	0.34	
WLF1	HZ	102.0	EP	18:49	06.67			0.71
WLF1	HE	102.0	ES	18:49	18.37			0.05
WLF1	HE	102.0	IAML	18:49	19.00	8	0.19	
WLF1	HN	102.0	IAML	18:49	19.02	9	0.23	
CWF	HZ	166.0	EP	18:49	15.87			0.31
CWF	HE	166.0	ES	18:49	34.59			-0.24
CWF	HE	166.0	IAML	18:49	35.20	7	0.12	
CWF	HN	166.0	IAML	18:49	35.29	12	0.14	

June 10 2017 Time: 12:46 39.8 UTC Magnitude: 1.3 ML
Lat: 51.401N Lon: -2.895W Depth: 12.0 km
Grid Ref: 337.75 kmE 167.32 kmN RMS: 0.10 secs
Locality: CLEVEDON,NORTH SOMERSET
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MONM	HZ	49.1	EP			12:46	48.39			0.11
MONM	HE	49.1	ES			12:46	54.73			0.22
MONM	HE	49.1	IAML			12:46	55.22	45	0.26	
MONM	HN	49.1	IAML			12:46	56.60	16	0.12	
STRD	HZ	65.7	EP			12:46	50.67			-0.18
STRD	HN	65.7	ES			12:46	58.90			-0.04
STRD	HN	65.7	IAML			12:46	59.05	15	0.19	
STRD	HE	65.7	IAML			12:46	59.54	16	0.17	
MCH1	HZ	66.7	EP			12:46	50.92			-0.09
MCH1	HE	66.7	ES			12:46	59.20			-0.02
MCH1	HN	66.7	IAML			12:46	59.36	37	0.11	
MCH1	HE	66.7	IAML			12:46	59.39	17	0.07	
SWN1	HZ	77.1	EP			12:46	52.72			0.11
HTL	HZ	120.0	EP			12:46	59.08			0.09
HLM1	HZ	124.0	EP			12:46	59.44			-0.23
HLM1	HE	124.0	ES			12:47	14.10			-0.11
HLM1	HN	124.0	IAML			12:47	15.37	5	0.14	
HLM1	HE	124.0	IAML			12:47	16.06	4	0.12	
DYA	HZ	130.0	EP			12:47	00.48			0.05
DYA	HN	130.0	ES			12:47	15.49			-0.04
DYA	HE	130.0	IAML			12:47	17.25	8	0.11	
DYA	HN	130.0	IAML			12:47	17.32	9	0.17	
RSBS	HZ	142.0	EP			12:47	02.04			-0.12
RSBS	HN	142.0	ES			12:47	18.60			0.09
RSBS	HE	142.0	IAML			12:47	19.51	7	0.11	
RSBS	HN	142.0	IAML			12:47	20.74	6	0.15	
CWF	HN	184.0	ES			12:47	28.33			0.15
CWF	HE	184.0	IAML			12:47	28.95	4	0.22	
CWF	HN	184.0	IAML			12:47	29.70	3	0.20	

June 10 2017 Time: 14:37 18.2 UTC Magnitude: 0.5 ML
Lat: 57.532N Lon: -5.431W Depth: 4.9 km
Grid Ref: 194.63 kmE 854.26 kmN RMS: 0.10 secs
Locality: TORRIDON,HIGHLAND
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	25.3	EP			14:37	23.05			0.03
KPL	HE	25.3	ES			14:37	26.43			-0.08
KPL	HN	25.3	IAML			14:37	26.57	3	0.20	
KPL	HE	25.3	IAML			14:37	26.73	8	0.14	
LEWI	HN	109.0	EP			14:37	36.30			0.04
LEWI	HZ	109.0	ES			14:37	49.35			-0.06
BIGH	HZ	140.0	EP			14:37	40.81			0.00
BIGH	HN	140.0	IAML			14:37	57.44	2	0.20	
BIGH	HE	140.0	IAML			14:37	57.76	2	0.14	
LAWE	HE	142.0	ES			14:37	57.91			0.14
INVG	HZ	149.0	EP			14:37	42.31			0.11
INVG	HN	149.0	ES			14:37	59.49			-0.19
INVG	HN	149.0	IAML			14:38	00.31	1	0.44	
INVG	HE	149.0	IAML			14:38	01.25	1	0.24	

June 10 2017 Time: 23:05 06.7 UTC Magnitude: 2.4 ML
Lat: 52.125N Lon: -2.361W Depth: 6.5 km
Grid Ref: 375.29 kmE 247.52 kmN RMS: 0.30 secs
Locality: MALVERN,WORCESTERSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT MALVERN Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
STRD	HZ	41.1	IP		C	23:05	13.85			-0.18
STRD	HN	41.1	ES			23:05	18.73			-0.65
STRD	HN	41.1	IAML			23:05	19.74	1129	0.15	
STRD	HE	41.1	IAML			23:05	19.88	926	0.13	
MONM	HZ	44.0	IP		C	23:05	14.46			-0.00
MONM	HN	44.0	ES			23:05	20.21			0.08
MONM	HE	44.0	IAML			23:05	20.50	617	0.24	
MONM	HN	44.0	IAML			23:05	20.55	568	0.16	
MCH1	HZ	46.0	IP		D	23:05	14.70			-0.08
MCH1	HE	46.0	ES			23:05	20.38			-0.30
MCH1	HE	46.0	IAML			23:05	20.56	186	0.15	
MCH1	HN	46.0	IAML			23:05	20.63	1048	0.09	
HLM1	HZ	56.3	IP		D	23:05	16.24			-0.19
HLM1	HN	56.3	ES			23:05	23.22			-0.32
HLM1	HN	56.3	IAML			23:05	23.82	162	0.19	
HLM1	HE	56.3	IAML			23:05	23.93	156	0.17	
SWN1	HZ	78.2	IP		D	23:05	20.23			0.45
SWN1	HN	78.2	ES			23:05	29.81			0.48
SWN1	HN	78.2	IAML			23:05	31.42	165	0.20	
SWN1	HE	78.2	IAML			23:05	32.29	204	0.22	
CWF	HZ	99.0	IP		C	23:05	22.77			-0.22
CWF	HN	99.0	ES			23:05	34.47			-0.42
CWF	HE	99.0	IAML			23:05	37.38	52	0.19	
CWF	HN	99.0	IAML			23:05	37.89	44	0.12	
FOEL	HZ	102.0	IP		C	23:05	23.85			0.27
FOEL	HE	102.0	ES			23:05	36.29			0.39
FOEL	HE	102.0	IAML			23:05	40.06	91	0.27	
FOEL	HN	102.0	IAML			23:05	40.54	112	0.21	
STNC	HZ	108.0	IP		D	23:05	24.85			0.44
WOL	BZ	120.0	EP			23:05	26.47			0.26
LBWR	HZ	148.0	EP			23:05	31.05			0.64
RSBS	HZ	165.0	EP			23:05	32.70			-0.02
HTL	HZ	194.0	EP			23:05	36.37			0.01
WPS	HZ	202.0	EP			23:05	38.90			1.46
AR05	HZ	209.0	EP			23:05	38.20			-0.11
HPK	HZ	210.0	EP			23:05	38.83			0.40
WACR	HZ	214.0	EP			23:05	40.05			1.16
DYA	HZ	218.0	EP			23:05	38.84			-0.55
ELMS	HZ	230.0	EP			23:05	42.45			1.61
SBD	BZ	237.0	EP			23:05	41.31			-0.53
EDMD	HZ	302.0	EP			23:05	49.53			-0.40

June 17 2017 Time: 06:09 29.6 UTC Magnitude: 1.0 ML
Lat: 53.015N Lon: -1.100W Depth: 9.6 km
Grid Ref: 460.37 kmE 346.82 kmN RMS: 0.10 secs
Locality: ARNOLD,NOTTINGHAMSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CWF	HZ	33.8	EP			06:09	35.80			0.10
CWF	HN	33.8	ES			06:09	40.15			-0.03
CWF	HN	33.8	IAML			06:09	40.95	12	0.10	
CWF	HE	33.8	IAML			06:09	41.38	16	0.12	
LBWR	HZ	59.9	EP			06:09	39.66			-0.11
LBWR	HE	59.9	ES			06:09	47.27			0.04
LBWR	HE	59.9	IAML			06:09	47.43	6	0.29	
LBWR	HN	59.9	IAML			06:09	48.16	5	0.18	
HPK	HN	111.0	ES			06:10	00.80			0.04
HPK	HE	111.0	IAML			06:10	00.99	8	0.24	
HPK	HN	111.0	IAML			06:10	02.53	13	0.32	
HLM1	HZ	132.0	EP			06:09	50.65			-0.12
HLM1	HE	132.0	ES			06:10	06.20			-0.05
HLM1	HN	132.0	IAML			06:10	07.22	2	0.22	
HLM1	HE	132.0	IAML			06:10	07.47	3	0.40	
FOEL	HZ	142.0	EP			06:09	52.16			0.03
FOEL	HN	142.0	ES			06:10	08.71			0.10
FOEL	HN	142.0	IAML			06:10	09.34	3	0.40	
FOEL	HE	142.0	IAML			06:10	09.89	3	0.18	
MCH1	HN	172.0	ES			06:10	15.78			0.17
MCH1	HN	172.0	IAML			06:10	16.82	1	0.12	
MCH1	HE	172.0	IAML			06:10	16.84	1	0.14	

June 17 2017 Time: 10:47 51.6 UTC Magnitude: 1.0 ML
Lat: 57.455N Lon: -5.587W Depth: 4.1 km
Grid Ref: 184.84 kmE 846.18 kmN RMS: 0.20 secs
Locality: LOCHCARRON,HIGHLAND
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 8KM NW LOCHCARRON

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	13.5	IP		D	10:47	54.46			0.11
KPL	HN	13.5	ES			10:47	56.26			-0.11
KPL	HN	13.5	IAML			10:47	56.41	46	0.12	
KPL	HE	13.5	IAML			10:47	56.57	90	0.22	
LINV	HZ	80.5	EP			10:48	04.90			-0.25
LINV	HE	80.5	IAML			10:48	17.30	3	0.10	
LINV	HN	80.5	IAML			10:48	18.71	2	0.20	
LEWI	HN	108.0	ES			10:48	22.51			-0.05
LEWI	HN	108.0	IAML			10:48	23.99	6	0.16	
LEWI	HE	108.0	IAML			10:48	24.22	5	0.11	

TABLE 2 : PHASE DATA

LAWE	HZ	134.0	EP	10:48	13.64			0.29
INVG	HZ	148.0	EP	10:48	15.53			0.08
INVG	HN	148.0	ES	10:48	32.61			-0.26
INVG	HE	148.0	IAML	10:48	34.02	4	0.22	
INVG	HN	148.0	IAML	10:48	34.83	2	0.08	
BIGH	HZ	152.0	EP	10:48	16.06			0.04
BIGH	HE	152.0	ES	10:48	34.02			0.16
BIGH	HE	152.0	IAML	10:48	35.39	5	0.18	
BIGH	HN	152.0	IAML	10:48	35.61	4	0.14	

June 25 2017 Time: 11:53 08.8 UTC Magnitude: 1.7 ML
Lat: 54.154N Lon: -2.899W Depth: 5.0 km
Grid Ref: 341.30 kmE 473.52 kmN RMS: 0.20 secs
Locality: KENTS BANK,CUMBRIA
Velocity model: Borders Xnear: 75.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
AQ10	HZ	27.0	EP			11:53	13.68			-0.14
AQ10	HE	27.0	IAML			11:53	18.30	87	0.20	
AQ10	HN	27.0	IAML			11:53	19.71	117	0.38	
AQ07	HZ	37.9	EP			11:53	15.48			-0.13
AQ04	HZ	42.3	EP			11:53	16.33			0.03
AQ04	HN	42.3	ES			11:53	21.65			0.02
AQ04	HN	42.3	IAML			11:53	22.05	162	0.26	
AQ04	HE	42.3	IAML			11:53	22.50	242	0.18	
SPK	EE	49.4	EP			11:53	17.64			0.17
KESW	HZ	50.2	EP			11:53	17.48			-0.15
KESW	HN	50.2	IAML			11:53	25.44	18	0.29	
KESW	HE	50.2	IAML			11:53	25.48	22	0.34	
AQ02	HZ	51.6	EP			11:53	17.89			0.08
AQ02	HN	51.6	IAML			11:53	26.54	116	0.22	
AQ02	HE	51.6	IAML			11:53	26.57	84	0.20	
EDMD	HZ	96.8	EP			11:53	25.36			0.21
EDMD	HN	96.8	ES			11:53	36.62			-0.15
EDMD	HE	96.8	IAML			11:53	37.86	74	0.16	
EDMD	HN	96.8	IAML			11:53	39.68	96	0.22	
IOMK	HZ	109.0	EP			11:53	27.16			-0.09
IOMK	HN	109.0	IAML			11:53	41.57	31	0.18	
IOMK	HE	109.0	IAML			11:53	41.95	18	0.18	
LBWR	HZ	114.0	EP			11:53	28.07			0.05
LBWR	HN	114.0	IAML			11:53	43.08	22	0.28	
LBWR	HE	114.0	IAML			11:53	44.20	34	0.11	
AT10	HZ	115.0	EP			11:53	28.37			0.23
AT10	HE	115.0	IAML			11:53	44.95	17	0.36	
AT10	HN	115.0	IAML			11:53	46.08	24	0.26	
WIM	EZ	116.0	EP			11:53	28.31			-0.04
AU11	HZ	128.0	EP			11:53	30.88			0.56
AU11	HN	128.0	IAML			11:53	48.64	12	0.16	
AU11	HE	128.0	IAML			11:53	49.62	13	0.34	
ESK	HZ	131.0	EP			11:53	30.38			-0.37
ESK	HN	131.0	IAML			11:53	48.56	7	0.18	
ESK	HE	131.0	IAML			11:53	48.76	12	0.22	
AU09	HZ	131.0	EP			11:53	31.30			0.53
AU09	HN	131.0	IAML			11:53	50.32	49	0.28	
AU09	HE	131.0	IAML			11:53	50.43	33	0.40	
WPS	HZ	135.0	EP			11:53	31.25			0.03
WPS	HE	135.0	ES			11:53	47.23			0.08
WPS	HE	135.0	IAML			11:53	48.34	7	0.38	
WPS	HN	135.0	IAML			11:53	48.36	9	0.42	
NEWG	HZ	137.0	EP			11:53	31.60			0.01
NEWG	HE	137.0	ES			11:53	47.03			-0.74
NEWG	HN	137.0	IAML			11:53	48.06	9	0.34	
NEWG	HE	137.0	IAML			11:53	48.23	12	0.36	
WLF1	HZ	138.0	EP			11:53	31.76			0.13
WLF1	HE	138.0	IAML			11:53	49.03	15	0.30	
WLF1	HN	138.0	IAML			11:53	49.22	14	0.36	
GDLE	HZ	139.0	EP			11:53	32.38			0.60
GDLE	HE	139.0	IAML			11:53	50.15	22	0.46	
GDLE	HN	139.0	IAML			11:53	50.39	34	0.20	
GAL1	HZ	142.0	EP			11:53	32.04			-0.07
GAL1	HE	142.0	IAML			11:53	50.20	6	0.11	
GAL1	HN	142.0	IAML			11:53	50.36	12	0.20	
AU08	HZ	146.0	EP			11:53	34.34			1.64

June 28 2017 Time: 14:48 47.1 UTC Magnitude: 1.1 ML
Lat: 53.258N Lon: -2.882W Depth: 6.8 km
Grid Ref: 341.17 kmE 373.84 kmN RMS: 0.20 secs
Locality: ELLESMERE PORT,CHESHIRE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
FOEL	HZ	46.2	EP			14:48	55.29			0.06
FOEL	HN	46.2	ES			14:49	01.10			-0.08
FOEL	HE	46.2	IAML			14:49	03.33	9	0.24	
FOEL	HN	46.2	IAML			14:49	03.58	9	0.15	
LLW	BZ	69.5	EP			14:48	58.91			0.13
LLW	BN	69.5	ES			14:49	07.05			-0.27
LBWR	HZ	78.7	EP			14:49	00.12			-0.14
LBWR	HE	78.7	ES			14:49	09.70			-0.17
LBWR	HN	78.7	IAML			14:49	12.03	10	0.57	
LBWR	HE	78.7	IAML			14:49	13.02	6	0.37	
HLM1	HZ	82.3	EP			14:49	01.04			0.21
HLM1	HE	82.3	ES			14:49	10.97			0.12
HLM1	HE	82.3	IAML			14:49	11.37	20	0.20	
HLM1	HN	82.3	IAML			14:49	11.51	9	0.10	
WLF1	HE	101.0	ES			14:49	15.74			-0.03
WLF1	HN	101.0	IAML			14:49	17.77	10	0.14	
WLF1	HE	101.0	IAML			14:49	18.53	9	0.10	
EDMD	HN	185.0	ES			14:49	36.63			0.16

June 30 2017 Time: 13:33 45.2 UTC Magnitude: 4.7 ML
Lat: 58.952N Lon: 1.866W Depth: 7.4 km
Grid Ref: 622.32 kmE 1013.58 kmN RMS: 0.50 secs
Locality: CENTRAL NORTH SEA
Velocity model: North Sea Xnear: 500.0 Xfar: 1000.0
Comment: FELT LERWICK... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LRW	HZ	217.0	IP		C	13:34	17.09			0.18
LRW	HN	217.0	ES			13:34	40.35			0.29
LRW	HE	217.0	IAML			13:34	47.08	5096	0.30	
LRW	HN	217.0	IAML			13:34	47.09	6475	0.26	
BER	HZ	252.0	IP		C	13:34	21.57			0.27
BER	HE	252.0	ES			13:34	47.36			-0.30
BER	HN	252.0	IAML			13:35	06.92	613	0.34	
BER	HE	252.0	IAML			13:35	09.66	1092	0.82	
BIGH	HZ	338.0	EP			13:34	32.23			0.22
BIGH	HE	338.0	IAML			13:35	29.02	2362	0.50	
BIGH	HN	338.0	IAML			13:35	30.67	2441	0.34	
FOO	HZ	343.0	EP			13:34	32.18			-0.40
FOO	HE	343.0	ES			13:35	06.27			-0.90
FOO	HN	343.0	IAML			13:34	54.64	483	0.70	
FOO	HE	343.0	IAML			13:35	35.97	517	0.54	
DRUM	HZ	344.0	EP			13:34	33.14			0.49
DRUM	HE	344.0	ES			13:35	08.08			0.78
DRUM	HN	344.0	IAML			13:35	31.43	3341	0.54	
DRUM	HE	344.0	IAML			13:35	36.90	2472	0.52	
LINV	HZ	421.0	EP			13:34	42.22			-0.01
LINV	HN	421.0	IAML			13:35	43.51	1801	0.43	
LINV	HE	421.0	IAML			13:35	56.84	1411	0.87	
KONO	BZ	447.0	EP			13:34	46.50			0.99
INVG	HZ	451.0	EP			13:34	46.04			0.08
INVG	HN	451.0	IAML			13:35	54.82	808	0.34	
INVG	HE	451.0	IAML			13:36	07.91	1202	0.54	
EDI	HZ	453.0	EP			13:34	46.61			0.31
EDI	HE	453.0	IAML			13:35	32.65	1683	0.48	
EDI	HN	453.0	IAML			13:35	34.15	1736	0.56	
KPL	HZ	478.0	EP			13:34	49.02			-0.26
KPL	HN	478.0	IAML			13:36	10.11	1041	0.48	
KPL	HE	478.0	IAML			13:36	12.08	998	0.52	
MOL	HZ	508.0	EP			13:34	53.55			0.47
MOL	HE	508.0	IAML			13:36	15.30	626	0.62	
MOL	HN	508.0	IAML			13:36	19.09	550	0.88	
ESK	HZ	508.0	EP			13:34	52.92			-0.15
ESK	HN	508.0	IAML			13:35	47.20	590	0.44	
ESK	HE	508.0	IAML			13:36	23.12	618	0.80	
EDMD	HZ	515.0	EP			13:34	53.69			-0.19
EDMD	HE	515.0	IAML			13:36	44.57	675	0.78	
EDMD	HN	515.0	IAML			13:36	45.01	565	0.80	
LEWI	HZ	516.0	EP			13:34	53.83			-0.27
LEWI	HN	516.0	IAML			13:36	14.10	1000	0.70	
LEWI	HE	516.0	IAML			13:36	18.28	571	0.58	
MUD	HZ	516.0	EP			13:34	54.73			0.68
MUD	HN	516.0	IAML			13:36	27.68	1037	0.68	
MUD	HE	516.0	IAML			13:36	27.95	1334	0.72	
PGB1	HZ	517.0	EP			13:34	54.73			0.47
PGB1	HE	517.0	IAML			13:36	19.02	592	0.42	
PGB1	HN	517.0	IAML			13:36	30.85	850	0.70	
LAWE	HZ	527.0	EP			13:34	54.70			-0.77
LAWE	HN	527.0	IAML			13:36	19.74	967	0.36	
LAWE	HE	527.0	IAML			13:36	23.30	1502	0.44	
GDLE	HZ	530.0	EP			13:34	55.60			-0.27
GDLE	HN	530.0	IAML			13:36	28.81	1196	0.44	
GDLE	HE	530.0	IAML			13:36	51.03	728	0.50	
NEWG	HZ	565.0	EP			13:35	00.12			0.01
NEWG	HE	565.0	IAML			13:35	55.96	365	0.54	
NEWG	HN	565.0	IAML			13:36	12.77	372	0.62	
KESW	HZ	573.0	EP			13:35	00.85			-0.28
KESW	HE	573.0	IAML			13:36	54.04	524	0.68	
KESW	HN	573.0	IAML			13:37	00.02	419	0.62	
HPK	HZ	596.0	EP			13:35	03.59			-0.43
HPK	HN	596.0	IAML			13:36	13.83	820	0.36	
HPK	HE	596.0	IAML			13:37	05.40	697	0.64	
SOFL	HZ	596.0	EP			13:35	04.27			0.28
SOFL	HE	596.0	IAML			13:36	08.12	861	0.50	
SOFL	HN	596.0	IAML			13:36	14.39	614	0.46	
GAL1	HZ	606.0	EP			13:35	05.08			-0.13
GAL1	HN	606.0	IAML			13:36	07.48	305	0.64	
GAL1	HE	606.0	IAML			13:37	06.01	256	0.54	
IOMK	HZ	654.0	EP			13:35	10.78			-0.47
IOMK	HN	654.0	IAML			13:37	07.59	315	0.64	

TABLE 2 : PHASE DATA

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
IOMK	HE	654.0	IAML			13:37	16.22	252	0.48	
LBWR	HZ	657.0	EP			13:35	11.05			-0.52
LBWR	HN	657.0	IAML			13:37	18.85	654	1.14	
LBWR	HE	657.0	IAML			13:37	19.37	477	0.42	
WIM	EZ	669.0	EP			13:35	12.75			-0.31
WACR	HZ	698.0	EP			13:35	16.37			-0.25
WACR	HN	698.0	IAML			13:36	53.61	289	0.84	
WACR	HE	698.0	IAML			13:36	55.58	257	0.56	
WPS	HZ	733.0	EP			13:35	21.29			0.28
WPS	HN	733.0	IAML			13:37	26.46	120	0.56	
WPS	HE	733.0	IAML			13:37	39.18	88	0.61	
WLF1	HZ	740.0	EP			13:35	20.97			-0.96
WLF1	HE	740.0	IAML			13:37	32.08	189	0.74	
WLF1	HN	740.0	IAML			13:38	01.40	170	0.68	
YLL	EZ	748.0	EP			13:35	22.26			-0.60
YRC	EZ	750.0	EP			13:35	22.78			-0.34
HLM1	HZ	775.0	EP			13:35	25.79			-0.52
HLM1	HN	775.0	IAML			13:37	07.71	110	0.60	
HLM1	HE	775.0	IAML			13:37	29.27	120	0.56	
MCH1	HZ	832.0	EP			13:35	32.46			-0.93
MONM	HZ	845.0	EP			13:35	34.30			-0.60
BSD	HZ	898.0	EP			13:35	40.98			-0.54
HGN	BZ	948.0	EP			13:35	47.37			-0.30
DOU	HZ	1001.0	EP			13:35	53.64			-0.69

July 6 2017 Time: 02:09 20.7 UTC Magnitude: 0.9 ML
Lat: 50.002N Lon: -2.605W Depth: 5.0 km
Grid Ref: 356.65 kmE 11.56 kmN RMS: 0.70 secs
Locality: ENGLISH CHANNEL
Velocity model: Lownet Xnear: 100.0 Xfar: 500.0
Comment: 80KM SE DARTMOUTH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
JSA	HZ	95.8	EP			02:09	36.59			-0.01
JSA	HN	95.8	ES			02:09	47.71			-0.48
JSA	HN	95.8	IAML			02:09	50.55	4	0.48	
JSA	HE	95.8	IAML			02:09	52.39	3	0.37	
JQE	EZ	98.1	EP			02:09	37.05			0.08
JQE	EZ	98.1	ES			02:09	49.00			0.18
DYA	HZ	106.0	EP			02:09	38.06			-0.21
DYA	HN	106.0	ES			02:09	49.82			-1.25
DYA	HN	106.0	IAML			02:09	52.81	4	0.14	
DYA	HE	106.0	IAML			02:09	52.97	5	0.10	
SBD	BZ	161.0	EP			02:09	47.36			1.01
SBD	BE	161.0	ES			02:10	05.60			0.55
SBD	BE	161.0	IAML			02:10	08.27	1	0.12	
SBD	BN	161.0	IAML			02:10	09.48	2	0.10	
CCA1	HN	189.0	ES			02:10	12.22			0.89

July 7 2017 Time: 01:42 41.6 UTC Magnitude: 3.6 ML
Lat: 58.418N Lon: 1.581W Depth: 10.7 km
Grid Ref: 609.12 kmE 953.27 kmN RMS: 0.30 secs
Locality: CENTRAL NORTH SEA
Velocity model: North Sea Xnear: 500.0 Xfar: 1000.0
Comment: 220KM ENE PETERHEAD

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LRW	HZ	248.0	EP			01:43	17.64			0.73
LRW	HN	248.0	ES			01:43	42.50			-0.16
LRW	HN	248.0	IAML			01:43	55.76	280	0.36	
LRW	HE	248.0	IAML			01:43	58.05	300	0.54	
DRUM	HZ	295.0	EP			01:43	23.42			0.64
DRUM	HN	295.0	IAML			01:44	10.46	200	0.28	
DRUM	HE	295.0	IAML			01:44	13.56	188	0.46	
BER	HZ	306.0	EP			01:43	23.95			-0.15
BER	HN	306.0	IAML			01:44	11.84	81	0.30	
BER	HE	306.0	IAML			01:44	15.60	74	0.24	
BIGH	HZ	321.0	EP			01:43	26.41			0.45
BIGH	HE	321.0	IAML			01:44	00.36	176	0.24	
BIGH	HN	321.0	IAML			01:44	18.82	219	0.44	
LINV	HZ	399.0	EP			01:43	35.53			-0.12
LINV	HN	399.0	IAML			01:44	16.66	120	0.26	
LINV	HE	399.0	IAML			01:44	19.03	108	0.26	
EDI	HZ	400.0	EP			01:43	35.99			0.13
EDI	HN	400.0	ES			01:44	15.61			0.16
FOO	HZ	403.0	EP			01:43	35.67			-0.57
FOO	HE	403.0	IAML			01:44	18.05	35	0.26	
FOO	HN	403.0	IAML			01:44	43.76	27	0.32	
INVG	HZ	404.0	EP			01:43	36.53			0.20
INVG	HN	404.0	IAML			01:44	21.57	78	0.24	
INVG	HE	404.0	IAML			01:44	54.30	70	0.42	
KPL	HZ	445.0	EP			01:43	41.32			-0.14
KPL	HN	445.0	IAML			01:44	39.34	62	0.42	
KPL	HE	445.0	IAML			01:44	57.64	54	0.42	
ESK	HZ	452.0	EP			01:43	42.09			-0.20
ESK	HE	452.0	IAML			01:44	31.32	92	0.24	
ESK	HN	452.0	IAML			01:44	31.53	79	0.68	
EDMD	HZ	455.0	EP			01:43	42.61			0.02
EDMD	HE	455.0	IAML			01:44	30.79	115	0.18	
EDMD	HN	455.0	IAML			01:44	37.77	70	0.36	
PGB1	HZ	468.0	EP			01:43	44.82			0.55
PGB1	HN	468.0	IAML			01:44	33.76	98	0.40	
PGB1	HE	468.0	IAML			01:45	23.77	54	0.54	
KONO	BZ	480.0	EP			01:43	46.11			0.33
LAWE	HZ	484.0	EP			01:43	45.66			-0.58
LAWE	HE	484.0	IAML			01:44	41.31	71	0.26	
LAWE	HN	484.0	IAML			01:45	08.53	86	0.50	
LEWI	HZ	496.0	EP			01:43	47.58			-0.23
LEWI	HE	496.0	IAML			01:44	40.66	61	0.28	
LEWI	HN	496.0	IAML			01:44	42.02	57	0.58	
MUD	HZ	505.0	EP			01:43	49.12			0.28
MUD	HE	505.0	IAML			01:45	11.77	108	0.46	
MUD	HN	505.0	IAML			01:45	21.95	92	0.58	
NEWG	HZ	511.0	EP			01:43	49.49			-0.11
NEWG	HN	511.0	IAML			01:44	41.55	56	0.70	
NEWG	HE	511.0	IAML			01:44	41.94	41	0.32	
KESW	HZ	515.0	EP			01:43	49.86			-0.21
KESW	HN	515.0	IAML			01:44	46.56	42	0.32	
KESW	HE	515.0	IAML			01:45	36.45	44	0.58	
HPK	HZ	535.0	EP			01:43	52.75			0.18
GAL1	HZ	552.0	EP			01:43	54.30			-0.43
GAL1	HE	552.0	IAML			01:44	51.36	52	0.30	
GAL1	HN	552.0	IAML			01:44	51.87	63	0.28	
MOL	HZ	567.0	EP			01:43	56.44			-0.10
MOL	HE	567.0	IAML			01:45	06.73	37	0.32	
MOL	HN	567.0	IAML			01:45	09.34	47	0.30	
LBWR	HZ	595.0	EP			01:43	59.87			-0.24
IOMK	HZ	598.0	EP			01:44	00.21			-0.27
IOMK	HN	598.0	IAML			01:45	52.77	31	0.66	
IOMK	HE	598.0	IAML			01:46	03.19	26	0.60	
CLGH	HZ	599.0	EP			01:44	00.20			-0.33
WIM	EZ	613.0	EP			01:44	01.81			-0.47
WACR	HZ	637.0	EP			01:44	05.29			0.08
WACR	HN	637.0	IAML			01:45	10.03	77	0.22	
WACR	HE	637.0	IAML			01:45	10.47	48	0.26	
WPS	HZ	675.0	EP			01:44	10.09			0.11
WPS	HN	675.0	IAML			01:45	30.74	10	0.27	
WPS	HE	675.0	IAML			01:45	50.65	7	0.36	
WLF1	HZ	682.0	EP			01:44	11.02			0.16
WLF1	HN	682.0	IAML			01:45	19.63	36	0.40	
WLF1	HE	682.0	IAML			01:45	21.72	37	0.64	
HLM1	HZ	714.0	EP			01:44	14.50			-0.41
HLM1	HN	714.0	IAML			01:45	27.12	23	0.48	
HLM1	HE	714.0	IAML			01:45	27.69	28	0.38	
MCH1	HZ	771.0	EP			01:44	21.38			-0.59
STRD	HZ	777.0	EP			01:44	22.99			0.37
MONM	HZ	783.0	EP			01:44	23.79			0.33
RSBS	HZ	824.0	EP			01:44	28.55			0.05

July 11 2017 Time: 01:23 57.7 UTC Magnitude: 1.3 ML
Lat: 51.754N Lon: -3.030W Depth: 16.4 km
Grid Ref: 328.91 kmE 206.70 kmN RMS: 0.20 secs
Locality: LLANOVER,MONMOUTHSHIRE
Velocity model: Lownet Xnear: 75.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MONM	HZ	18.2	IP		C	01:24	01.91			-0.06
MONM	HN	18.2	ES			01:24	05.18			0.11
MONM	HE	18.2	IAML			01:24	05.37	44	0.14	
MONM	HN	18.2	IAML			01:24	05.59	45	0.30	
MCH1	HZ	27.1	IP		C	01:24	03.01			-0.15
MCH1	HE	27.1	ES			01:24	07.16			0.02
MCH1	HE	27.1	IAML			01:24	07.21	118	0.10	
MCH1	HN	27.1	IAML			01:24	07.23	44	0.10	
STRD	HZ	59.9	EP			01:24	08.03			0.01
STRD	HE	59.9	IAML			01:24	16.49	17	0.24	
STRD	HN	59.9	IAML			01:24	16.65	21	0.14	
LPW	HZ	81.9	EP			01:24	11.19			-0.05
LPW	HN	81.9	ES			01:24	21.19			0.08
LPW	HE	81.9	IAML			01:24	21.34	6	0.24	
LPW	HN	81.9	IAML			01:24	21.68	9	0.12	
HLM1	HZ	85.6	EP			01:24	11.82			-0.03
HLM1	HN	85.6	ES			01:24	22.12			-0.05
HLM1	HE	85.6	IAML			01:24	22.60	15	0.20	
HLM1	HN	85.6	IAML			01:24	22.69	11	0.12	
RSBS	HZ	120.0	EP			01:24	16.82			0.06
RSBS	HN	120.0	IAML			01:24	32.69	8	0.09	
RSBS	HE	120.0	IAML			01:24	33.18	12	0.24	
FOEL	HZ	127.0	EP			01:24	18.33			0.58
FOEL	HN	127.0	IAML			01:24	35.20	5	0.24	
FOEL	HE	127.0	IAML			01:24	35.90	4	0.52	
LLW	BZ	129.0	EP			01:24	18.55			0.51
CWF	HZ	161.0	EP			01:24	22.65			0.29
CWF	HE	161.0	IAML			01:24	42.85	4	0.12	
CWF	HN	161.0	IAML			01:24	42.95	3	0.22	

July 11 2017 Time: 04:35 55.2 UTC Magnitude: 1.1 ML
Lat: 51.581N Lon: -3.200W Depth: 12.6 km
Grid Ref: 316.86 kmE 187.64 kmN RMS: 0.20 secs
Locality: BEDWAS,CAERPHILLY
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

TABLE 2 : PHASE DATA

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MONM	HZ	39.7	IP		C	04:36	02.25			-0.02
MONM	HN	39.7	ES			04:36	07.62			0.17
MONM	HN	39.7	IAML			04:36	07.96	19	0.22	
MONM	HE	39.7	IAML			04:36	08.09	17	0.18	
MCH1	HZ	48.4	IP		C	04:36	03.40			-0.21
MCH1	HE	48.4	ES			04:36	09.70			-0.08
MCH1	HN	48.4	IAML			04:36	09.79	18	0.10	
MCH1	HE	48.4	IAML			04:36	09.83	54	0.10	
STRD	HZ	75.0	EP			04:36	07.70			-0.01
LPW	HZ	84.2	EP			04:36	09.21			0.10
LPW	HE	84.2	IAML			04:36	25.20	3	0.22	
LPW	HN	84.2	IAML			04:36	25.51	3	0.16	
HLM1	HZ	107.0	EP			04:36	12.40			-0.13
HLM1	HE	107.0	ES			04:36	25.18			-0.02
HLM1	HE	107.0	IAML			04:36	28.21	9	0.20	
HLM1	HN	107.0	IAML			04:36	28.24	8	0.22	
RSBS	HZ	114.0	EP			04:36	13.53			-0.07
LLW	BZ	145.0	EP			04:36	18.62			0.71
LLW	BN	145.0	IAML			04:36	37.06	5	0.35	
LLW	BE	145.0	IAML			04:36	37.16	6	0.25	

July 16 2017 Time: 10:28 48.7 UTC Magnitude: 2.1 ML
Lat: 51.695N Lon: -3.230W Depth: 7.5 km
Grid Ref: 315.00 kmE 200.35 kmN RMS: 0.20 secs
Locality: BARGOED,CAERPHILLY
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MONM	HZ	33.5	IP		C	10:28	54.82			0.10
MONM	HE	33.5	ES			10:28	59.29			0.15
MONM	HE	33.5	IAML			10:28	59.68	156	0.20	
MONM	HN	33.5	IAML			10:29	01.31	115	0.22	
MCH1	HZ	37.2	IP		C	10:28	55.30			-0.01
MCH1	HN	37.2	ES			10:29	00.17			-0.00
MCH1	HN	37.2	IAML			10:29	00.43	101	0.17	
MCH1	HE	37.2	IAML			10:29	00.46	224	0.20	
STRD	HZ	74.3	EP			10:29	01.19			0.13
STRD	HE	74.3	ES			10:29	09.83			-0.28
STRD	HN	74.3	IAML			10:29	10.83	263	0.24	
STRD	HE	74.3	IAML			10:29	10.92	188	0.16	
HLM1	HZ	94.7	EP			10:29	04.25			-0.01
HLM1	HN	94.7	ES			10:29	15.52			-0.13
HLM1	HE	94.7	IAML			10:29	19.12	93	0.12	
HLM1	HN	94.7	IAML			10:29	19.24	84	0.30	
RSBS	HZ	108.0	EP			10:29	06.12			-0.23
RSBS	HN	108.0	IAML			10:29	19.23	71	0.14	
RSBS	HE	108.0	IAML			10:29	19.38	52	0.06	
HTL	HZ	117.0	EP			10:29	07.87			0.19
HTL	HN	117.0	IAML			10:29	22.54	16	0.14	
HTL	HE	117.0	IAML			10:29	23.08	26	0.16	
FOEL	HZ	133.0	EP			10:29	10.27			0.19
FOEL	HE	133.0	ES			10:29	25.95			0.23
FOEL	HN	133.0	IAML			10:29	26.72	68	0.38	
FOEL	HE	133.0	IAML			10:29	29.16	94	0.42	
DYA	HZ	149.0	EP			10:29	12.15			-0.13
CWF	HZ	175.0	EP			10:29	15.44			-0.49
CWF	HE	175.0	IAML			10:29	37.02	41	0.18	
CWF	HN	175.0	IAML			10:29	37.11	40	0.22	
WLF1	HZ	194.0	EP			10:29	17.75			-0.52
WLF1	HE	194.0	IAML			10:29	41.82	42	0.20	
WLF1	HN	194.0	IAML			10:29	41.91	35	0.24	
WPS	HZ	208.0	EP			10:29	20.80			0.77
WPS	HN	208.0	ES			10:29	44.01			1.08
WPS	HN	208.0	IAML			10:29	46.88	6	0.15	
WPS	HE	208.0	IAML			10:29	48.32	4	0.35	
LBWR	HZ	216.0	EP			10:29	21.48			0.48
LBWR	HN	216.0	IAML			10:29	49.35	41	0.36	
LBWR	HE	216.0	IAML			10:29	50.47	36	0.30	

July 19 2017 Time: 18:46 39.7 UTC Magnitude: 1.0 ML
Lat: 52.230N Lon: -4.321W Depth: 15.6 km
Grid Ref: 241.51 kmE 261.67 kmN RMS: 0.40 secs
Locality: ABERAERON,CEREDIGION
Velocity model: Mid Wales Xnear: 150.0 Xfar: 300.0
Comment: 5KM WEST ABERAERON

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LPW	HZ	21.6	EP			18:46	43.65			-0.06
LPW	HE	21.6	ES			18:46	46.66			0.08
LPW	HE	21.6	IAML			18:46	47.35	15	0.10	
LPW	HN	21.6	IAML			18:46	47.39	14	0.14	
RSBS	HZ	42.3	EP			18:46	46.54			-0.31
RSBS	HN	42.3	ES			18:46	52.08			0.10
RSBS	HN	42.3	IAML			18:46	52.70	16	0.06	
RSBS	HE	42.3	IAML			18:46	53.28	15	0.06	
LLW	BZ	82.0	EP			18:46	53.07			0.26
LLW	BN	82.0	ES			18:47	02.20			-0.03
LLW	BN	82.0	IAML			18:47	02.86	2	0.19	
LLW	BE	82.0	IAML			18:47	04.34	2	0.20	
MCH1	HE	94.2	ES			18:47	05.53			0.14
MCH1	HE	94.2	IAML			18:47	05.71	5	0.30	
MCH1	HN	94.2	IAML			18:47	05.99	4	0.10	
HLM1	HZ	103.0	EP			18:46	55.72			-0.31
HLM1	HN	103.0	ES			18:47	07.80			0.05
HLM1	HE	103.0	IAML			18:47	09.94	17	0.18	
HLM1	HN	103.0	IAML			18:47	09.98	16	0.16	
FOEL	HZ	106.0	EP			18:46	56.08			-0.32
WLF1	HZ	118.0	EP			18:46	57.87			-0.34
WLF1	HE	118.0	ES			18:47	11.12			-0.39
WLF1	HN	118.0	IAML			18:47	12.04	3	0.25	
WLF1	HE	118.0	IAML			18:47	13.44	13	0.26	
WPS	HZ	131.0	EP			18:47	01.26			1.13
WPS	HN	131.0	IAML			18:47	16.84	3	0.96	
WPS	HE	131.0	IAML			18:47	17.64	3	0.84	

July 23 2017 Time: 07:58 48.2 UTC Magnitude: 2.3 ML
Lat: 57.877N Lon: -5.294W Depth: 7.7 km
Grid Ref: 204.69 kmE 892.23 kmN RMS: 0.30 secs
Locality: BADRALLACH,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT BADRALLACH... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LINV	HZ	30.6	IP		D	07:58	53.89			0.11
LINV	HN	30.6	ES			07:58	57.60			-0.27
LINV	HZ	30.6	IAML			07:58	57.75	242	0.20	
LINV	HN	30.6	IAML			07:58	57.94	197	0.16	
KPL	HZ	63.7	EP			07:58	59.05			0.14
KPL	HE	63.7	ES			07:59	06.40			-0.33
KPL	HE	63.7	IAML			07:59	07.04	78	0.24	
KPL	HN	63.7	IAML			07:59	07.13	60	0.30	
LEWI	HZ	97.8	EP			07:59	04.54			0.30
LEWI	HN	97.8	ES			07:59	15.82			-0.14
LEWI	HN	97.8	IAML			07:59	18.00	100	0.36	
LEWI	HE	97.8	IAML			07:59	19.47	64	0.28	
BIGH	HZ	106.0	EP			07:59	06.01			0.46
BIGH	HE	106.0	ES			07:59	17.92			-0.30
BIGH	HN	106.0	IAML			07:59	22.32	139	0.34	
BIGH	HE	106.0	IAML			07:59	22.34	128	0.30	
INVG	HZ	178.0	EP			07:59	16.40			0.55
INVG	HE	178.0	IAML			07:59	39.49	53	0.24	
INVG	HN	178.0	IAML			07:59	39.54	38	0.40	
LAWE	HZ	180.0	EP			07:59	16.50			0.45
LAWE	HN	180.0	IAML			07:59	40.83	73	0.36	
LAWE	HE	180.0	IAML			07:59	40.91	70	0.22	
ESK	HZ	313.0	EP			07:59	33.12			0.49
ESK	HE	313.0	IAML			08:00	20.50	10	0.39	
ESK	HN	313.0	IAML			08:00	21.18	11	0.38	

July 24 2017 Time: 21:59 02.5 UTC Magnitude: 0.7 ML
Lat: 51.573N Lon: -3.211W Depth: 11.1 km
Grid Ref: 316.09 kmE 186.76 kmN RMS: 0.20 secs
Locality: CAERPHILLY,CAERPHILLY
Velocity model: Mid Wales Xnear: 80.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MONM	HZ	40.8	EP			21:59	09.86			0.17
MONM	HE	40.8	ES			21:59	14.62			-0.26
MONM	HE	40.8	IAML			21:59	15.53	3	0.16	
MONM	HN	40.8	IAML			21:59	15.56	4	0.52	
MCH1	HZ	49.4	EP			21:59	11.04			-0.05
MCH1	HE	49.4	ES			21:59	17.32			0.03
MCH1	HN	49.4	IAML			21:59	17.41	8	0.10	
MCH1	HE	49.4	IAML			21:59	17.47	15	0.10	
HLM1	HZ	108.0	EP			21:59	20.27			0.05
HLM1	HE	108.0	ES			21:59	33.03			0.03
HLM1	HE	108.0	IAML			21:59	35.69	3	0.28	
HLM1	HN	108.0	IAML			21:59	36.12	2	0.19	
HTL	HZ	110.0	EP			21:59	20.83			0.31
RSBS	HZ	114.0	EP			21:59	21.30			0.12
RSBS	HN	114.0	ES			21:59	34.32			-0.31
RSBS	HE	114.0	IAML			21:59	34.76	2	0.08	
RSBS	HN	114.0	IAML			21:59	35.64	2	0.14	
DYA	HN	136.0	ES			21:59	39.97			-0.43
DYA	HE	136.0	IAML			21:59	42.37	2	0.17	
DYA	HN	136.0	IAML			21:59	42.48	2	0.17	
FOEL	HZ	146.0	EP			21:59	26.53			0.46

July 26 2017 Time: 20:00 29.4 UTC Magnitude: 0.5 ML
Lat: 52.394N Lon: -3.696W Depth: 4.3 km
Grid Ref: 284.61 kmE 278.73 kmN RMS: 0.10 secs
Locality: LLANGURIG,POWYS
Velocity model: Mid Wales Xnear: 80.0 Xfar: 200.0
Comment: 6KM WEST LLANGURIG

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LPW	HZ	40.2	EP			20:00	36.40			-0.00
LPW	HE	40.2	ES			20:00	41.39			-0.04
LPW	HE	40.2	IAML			20:00	41.78	2	0.14	
LPW	HN	40.2	IAML			20:00	42.27	2	0.10	
LLW	BE	50.7	ES			20:00	44.34			-0.07
HLM1	HZ	57.1	EP			20:00	39.31			0.09

TABLE 2 : PHASE DATA

HLM1	HE	57.1	ES	20:00	46.27			-0.00
HLM1	HN	57.1	IAML	20:00	46.43	17	0.22	
HLM1	HE	57.1	IAML	20:00	46.86	6	0.17	
MCH1	HZ	65.0	EP	20:00	40.54			0.03
MCH1	HN	65.0	ES	20:00	48.40			-0.08
MCH1	HE	65.0	IAML	20:00	48.48	3	0.12	
MCH1	HN	65.0	IAML	20:00	48.50	6	0.12	
RSBS	HZ	86.9	EP	20:00	44.22			0.08

July 27 2017 Time: 19:55 26.9 UTC Magnitude: 0.8 ML
Lat: 53.028N Lon: -2.837W Depth: 12.2 km
Grid Ref: 343.87 kmE 348.22 kmN RMS: 0.30 secs
Locality: SHOCKLACK,CHESHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
FOEL	HZ	28.8	EP			19:55	32.59			0.15
FOEL	HN	28.8	ES			19:55	36.36			-0.10
FOEL	HE	28.8	IAML			19:55	36.57	16	0.14	
FOEL	HN	28.8	IAML			19:55	36.81	17	0.09	
HLM1	HZ	56.8	EP			19:55	36.63			-0.08
HLM1	HE	56.8	ES			19:55	43.46			-0.39
HLM1	HN	56.8	IAML			19:55	43.59	5	0.16	
HLM1	HE	56.8	IAML			19:55	43.79	12	0.24	
LLW	BZ	59.1	EP			19:55	37.49			0.47
LLW	BN	59.1	ES			19:55	44.36			-0.01
LLW	BN	59.1	IAML			19:55	44.79	4	0.10	
LLW	BE	59.1	IAML			19:55	44.83	2	0.13	
LBWR	HZ	85.1	EP			19:55	41.27			0.19
LBWR	HN	85.1	ES			19:55	51.23			-0.16
LBWR	HN	85.1	IAML			19:55	52.19	4	0.32	
LBWR	HE	85.1	IAML			19:55	52.64	5	0.13	
WLF1	HN	108.0	ES			19:55	56.91			-0.38
WLF1	HE	108.0	IAML			19:55	59.22	5	0.29	
WLF1	HN	108.0	IAML			19:55	59.37	6	0.09	
MCH1	HN	115.0	ES			19:55	59.42			0.36

July 28 2017 Time: 01:41 16.2 UTC Magnitude: 0.7 ML
Lat: 54.054N Lon: -1.920W Depth: 9.2 km
Grid Ref: 405.24 kmE 462.03 kmN RMS: 0.20 secs
Locality: HEBDEN,NORTH YORKSHIRE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
AR05	HZ	9.5	EP			01:41	18.64			-0.11
AR05	HE	9.5	ES			01:41	20.67			0.08
AR05	HE	9.5	IAML			01:41	20.87	26	0.16	
AR05	HN	9.5	IAML			01:41	20.93	18	0.10	
HPK	HZ	22.1	EP			01:41	20.50			-0.08
HPK	HE	22.1	ES			01:41	23.75			0.01
HPK	HN	22.1	IAML			01:41	24.03	16	0.16	
HPK	HE	22.1	IAML			01:41	24.25	9	0.16	
LBWR	HZ	73.8	EP			01:41	28.84			0.26
LBWR	HE	73.8	ES			01:41	37.37			-0.23
GDLE	HZ	82.8	EP			01:41	30.15			0.19
EDMD	HE	86.5	ES			01:41	40.73			-0.17
EDMD	HE	86.5	IAML			01:41	42.89	5	0.16	
EDMD	HN	86.5	IAML			01:41	43.22	4	0.17	
KESW	HE	97.4	ES			01:41	43.96			0.06

July 28 2017 Time: 17:17 22.8 UTC Magnitude: 0.9 ML
Lat: 56.330N Lon: -3.640W Depth: 12.1 km
Grid Ref: 298.61 kmE 716.49 kmN RMS: 0.40 secs
Locality: ABERTHVEN,PERTH/KINROSS
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
INVG	HZ	27.2	IP		C	17:17	27.94			-0.04
INVG	HN	27.2	ES			17:17	31.51			-0.28
INVG	HE	27.2	IAML			17:17	31.77	12	0.12	
INVG	HN	27.2	IAML			17:17	31.94	10	0.08	
PGB1	HZ	78.0	EP			17:17	35.95			0.19
DRUM	HZ	96.1	EP			17:17	38.73			0.17
DRUM	HN	96.1	ES			17:17	49.92			-0.17
DRUM	HE	96.1	IAML			17:17	51.78	11	0.23	
DRUM	HN	96.1	IAML			17:17	52.03	6	0.15	
LAWE	HZ	109.0	EP			17:17	41.40			0.95
LAWE	HN	109.0	ES			17:17	52.93			-0.44
LAWE	HE	109.0	IAML			17:17	56.24	6	0.18	
LAWE	HN	109.0	IAML			17:17	56.41	8	0.31	
ESK	HZ	116.0	EP			17:17	41.67			0.21
ESK	HE	116.0	ES			17:17	54.43			-0.68
ESK	HE	116.0	IAML			17:17	55.66	3	0.20	
ESK	HN	116.0	IAML			17:17	56.01	2	0.21	
NEWG	HZ	140.0	EP			17:17	44.77			-0.08
NEWG	HE	140.0	ES			17:18	01.27			0.29
NEWG	HE	140.0	IAML			17:18	02.00	2	0.19	
NEWG	HN	140.0	IAML			17:18	04.10	2	0.16	

July 29 2017 Time: 03:54 05.1 UTC Magnitude: 1.1 ML
Lat: 55.883N Lon: -5.242W Depth: 10.0 km
Grid Ref: 197.25 kmE 670.29 kmN RMS: 0.30 secs
Locality: KAMES,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	43.1	IP		D	03:54	12.83			0.19
LAWE	HN	43.1	ES			03:54	17.81			-0.35
LAWE	HN	43.1	IAML			03:54	17.99	10	0.12	
LAWE	HE	43.1	IAML			03:54	18.14	23	0.21	
PGB1	HZ	48.1	IP		C	03:54	13.80			0.38
PGB1	HE	48.1	IAML			03:54	13.88	8	0.08	
PGB1	HN	48.1	ES			03:54	19.54			0.02
PGB1	HN	48.1	IAML			03:54	19.91	5	0.18	
INVG	HZ	96.0	EP			03:54	20.97			0.12
INVG	HE	96.0	ES			03:54	32.16			-0.22
INVG	HE	96.0	IAML			03:54	35.62	6	0.08	
INVG	HN	96.0	IAML			03:54	35.75	5	0.14	
CLGH	HZ	105.0	EP			03:54	22.51			0.34
CLGH	HE	105.0	ES			03:54	34.37			-0.29
CLGH	HN	105.0	IAML			03:54	37.30	6	0.12	
CLGH	HE	105.0	IAML			03:54	37.32	9	0.19	
NEWG	HZ	107.0	EP			03:54	22.91			0.46
NEWG	HE	107.0	ES			03:54	34.45			-0.70
NEWG	HE	107.0	IAML			03:54	37.90	10	0.15	
NEWG	HN	107.0	IAML			03:54	38.00	6	0.14	
GAL1	HZ	118.0	EP			03:54	24.52			0.37
GAL1	HE	118.0	ES			03:54	37.74			-0.33
GAL1	HE	118.0	IAML			03:54	40.15	6	0.31	
GAL1	HN	118.0	IAML			03:54	41.13	7	0.28	
KPL	HZ	164.0	EP			03:54	32.52			1.84

July 29 2017 Time: 20:51 52.7 UTC Magnitude: 1.4 ML
Lat: 52.266N Lon: -3.914W Depth: 7.5 km
Grid Ref: 269.40 kmE 264.86 kmN RMS: 0.50 secs
Locality: TREGARON,CEREDIGION
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
RSBS	HZ	66.7	EP			20:52	03.57			-0.33
RSBS	HN	66.7	ES			20:52	11.89			-0.21
RSBS	HN	66.7	IAML			20:52	13.61	17	0.14	
RSBS	HE	66.7	IAML			20:52	13.83	29	0.20	
MCH1	HN	69.5	ES			20:52	12.60			-0.22
MCH1	HN	69.5	IAML			20:52	12.96	27	0.34	
MCH1	HE	69.5	IAML			20:52	13.03	28	0.13	
HLM1	HZ	75.8	EP			20:52	05.30			-0.03
HLM1	HE	75.8	ES			20:52	14.15			-0.43
HLM1	HE	75.8	IAML			20:52	14.62	9	0.15	
HLM1	HN	75.8	IAML			20:52	14.72	17	0.18	
FOEL	HZ	84.6	EP			20:52	06.70			-0.01
FOEL	HE	84.6	IAML			20:52	21.60	11	0.48	
FOEL	HN	84.6	IAML			20:52	21.78	9	0.70	
MONM	HZ	89.7	EP			20:52	07.81			0.37
MONM	HE	89.7	ES			20:52	18.50			0.27
MONM	HE	89.7	IAML			20:52	18.85	20	0.28	
MONM	HN	89.7	IAML			20:52	18.99	32	0.30	
WLF1	HZ	118.0	EP			20:52	11.63			-0.25
WLF1	HE	118.0	IAML			20:52	26.13	9	0.15	
WLF1	HN	118.0	IAML			20:52	28.00	6	0.16	
YRC	EZ	118.0	EP			20:52	11.68			-0.17
WPS	HZ	132.0	EP			20:52	15.30			1.40
HTL	HZ	147.0	EP			20:52	16.82			0.82
CWF	HZ	185.0	EP			20:52	21.10			0.00
CWF	HN	185.0	IAML			20:52	43.34	8	0.18	
CWF	HE	185.0	IAML			20:52	43.48	6	0.20	
LBWR	HZ	194.0	EP			20:52	22.60			0.27

August 2 2017 Time: 02:15 34.3 UTC Magnitude: 3.1 ML
Lat: 60.937N Lon: 3.797W Depth: 13.9 km
Grid Ref: 713.84 kmE 1242.09 kmN RMS: 0.40 secs
Locality: NORTHERN NORTH SEA
Velocity model: North Sea Xnear: 750.0 Xfar: 1500.0
Comment: 285KM ENE LERWICK

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LRW	HZ	287.0	EP			02:16	14.58			0.47
LRW	HN	287.0	ES			02:16	43.19			0.01
LRW	HN	287.0	IAML			02:16	47.66	26	0.60	
LRW	HE	287.0	IAML			02:16	50.99	35	0.22	
KONO	BZ	351.0	EP			02:16	22.07			-0.02
BIGH	HZ	512.0	EP			02:16	42.31			0.32
BIGH	HN	512.0	ES			02:17	31.62			0.22
BIGH	HN	512.0	IAML			02:17	34.38	24	0.20	
BIGH	HE	512.0	IAML			02:17	36.39	24	0.22	
LINV	HZ	595.0	EP			02:16	52.06			-0.34
LINV	HN	595.0	ES			02:17	49.31			-0.10
LINV	HN	595.0	IAML			02:17	53.91	9	0.20	
LINV	HE	595.0	IAML			02:17	54.15	8	0.14	
KPL	HZ	672.0	EP			02:17	01.34			-0.59
KPL	HN	672.0	ES			02:18	05.25			-0.64
KPL	HE	672.0	IAML			02:18	10.17	5	0.22	
KPL	HN	672.0	IAML			02:18	16.47	6	0.66	
INVG	HZ	677.0	EP			02:17	02.72			0.21

TABLE 2 : PHASE DATA

INVG	HN	677.0	IAML		02:18	12.92	6	0.32
INVG	HE	677.0	IAML		02:18	24.76	8	0.52
LAWE	HZ	745.0	EP		02:17	10.96		-0.05
LAWE	HN	745.0	ES		02:18	22.11		0.51
LAWE	HN	745.0	IAML		02:18	25.32	10	0.31
LAWE	HE	745.0	IAML		02:18	25.96	9	0.30

August 2 2017 Time: 05:46 12.9 UTC Magnitude: 1.4 ML
Lat: 55.098N Lon: -7.559W Depth: 2.0 km
Grid Ref: 45.49 kmE 592.30 kmN RMS: 0.60 secs
Locality: CO DONEGAL,IRELAND
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: FELT MILFORD Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CLGH	HZ	92.5	EP			05:46	27.54			-0.77
CLGH	HN	92.5	ES			05:46	38.63			-0.93
CLGH	HN	92.5	IAML			05:46	40.82	23	0.19	
CLGH	HE	92.5	IAML			05:46	41.10	26	0.18	
ILTH	BZ	143.0	EP			05:46	35.90			-0.01
ILTH	BE	143.0	ES			05:46	52.60			-0.11
GAL1	HZ	184.0	EP			05:46	41.84			0.29
GAL1	HE	184.0	ES			05:47	02.69			0.22
LAWE	HZ	188.0	EP			05:46	41.44			-0.55
LAWE	HE	188.0	ES			05:47	03.85			0.62
LAWE	HN	188.0	IAML			05:47	06.20	2	0.18	
LAWE	HE	188.0	IAML			05:47	06.83	2	0.42	
NEWG	HE	212.0	ES			05:47	09.12			0.51
NEWG	HE	212.0	IAML			05:47	14.21	1	0.21	
NEWG	HN	212.0	IAML			05:47	14.48	3	0.24	
IOMK	HE	214.0	ES			05:47	09.76			0.73

August 2 2017 Time: 17:43 52.4 UTC Magnitude: 1.4 ML
Lat: 56.978N Lon: -5.089W Depth: 7.5 km
Grid Ref: 212.29 kmE 791.65 kmN RMS: 0.30 secs
Locality: GAIRLOCHY,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	52.7	EP			17:44	01.40			-0.05
KPL	HN	52.7	ES			17:44	07.85			-0.19
KPL	HN	52.7	IAML			17:44	09.57	9	0.32	
KPL	HE	52.7	IAML			17:44	11.43	10	0.15	
LAWE	HZ	82.2	EP			17:44	06.26			0.22
LAWE	HN	82.2	ES			17:44	15.94			-0.04
LAWE	HE	82.2	IAML			17:44	19.61	18	0.22	
LAWE	HN	82.2	IAML			17:44	19.64	12	0.20	
INVG	HZ	88.6	EP			17:44	07.17			0.10
INVG	HN	88.6	ES			17:44	17.42			-0.34
INVG	HE	88.6	IAML			17:44	21.85	30	0.11	
INVG	HN	88.6	IAML			17:44	21.97	18	0.09	
LINV	HZ	130.0	EP			17:44	13.61			0.20
LINV	HE	130.0	IAML			17:44	31.41	10	0.24	
LINV	HN	130.0	IAML			17:44	32.01	5	0.22	
DRUM	HZ	159.0	EP			17:44	18.47			1.00
DRUM	HN	159.0	IAML			17:44	38.58	16	0.13	
DRUM	HE	159.0	IAML			17:44	39.99	20	0.12	
LEWI	HZ	168.0	EP			17:44	19.04			0.23
LEWI	HE	168.0	IAML			17:44	41.31	5	0.05	
LEWI	HN	168.0	IAML			17:44	45.16	4	0.40	
BIGH	HZ	183.0	EP			17:44	21.21			0.60
BIGH	HN	183.0	IAML			17:44	44.67	4	0.20	
BIGH	HE	183.0	IAML			17:44	50.17	7	0.32	

August 4 2017 Time: 02:19 47.6 UTC Magnitude: 1.5 ML
Lat: 57.136N Lon: -4.068W Depth: 6.6 km
Grid Ref: 274.86 kmE 806.89 kmN RMS: 0.50 secs
Locality: KINGUSSIE,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT KINGUSSIE... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
INVG	HZ	79.0	EP			02:20	00.61			-0.17
INVG	HE	79.0	ES			02:20	09.64			-0.78
INVG	HE	79.0	IAML			02:20	15.18	17	0.16	
INVG	HN	79.0	IAML			02:20	15.77	12	0.09	
KPL	HZ	98.3	EP			02:20	04.02			0.30
KPL	HN	98.3	ES			02:20	15.04			-0.47
KPL	HN	98.3	IAML			02:20	18.44	19	0.10	
KPL	HE	98.3	IAML			02:20	19.30	19	0.14	
DRUM	HZ	99.2	IP		C	02:20	04.03			0.12
DRUM	HE	99.2	ES			02:20	15.84			0.01
DRUM	HE	99.2	IAML			02:20	19.57	42	0.15	
DRUM	HN	99.2	IAML			02:20	20.26	46	0.38	
LAWE	HZ	127.0	EP			02:20	08.62			0.42
LAWE	HN	127.0	ES			02:20	24.18			0.93
LINV	HZ	131.0	EP			02:20	08.86			0.10
LINV	HE	131.0	ES			02:20	24.05			-0.17
LINV	HE	131.0	IAML			02:20	24.39	6	0.13	
LINV	HN	131.0	IAML			02:20	25.46	4	0.13	
EDI	HZ	146.0	EP			02:20	11.65			0.83
BIGH	HZ	151.0	EP			02:20	11.93			0.28

August 4 2017 Time: 14:43 38.7 UTC Magnitude: 4.0 ML
Lat: 56.805N Lon: -5.888W Depth: 12.2 km
Grid Ref: 162.67 kmE 774.89 kmN RMS: 0.40 secs
Locality: MOIDART,HIGHLAND
Velocity model: Lownet Xnear: 300.0 Xfar: 600.0
Comment: FELT MOIDART... Intensity: 5

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	61.2	IP		D	14:43	49.41			0.34
KPL	HE	61.2	ES			14:43	56.77			0.13
KPL	HE	61.2	IAML			14:43	57.03	4900	0.26	
KPL	HN	61.2	IAML			14:44	00.41	3691	0.22	
LAWE	HZ	67.7	EP			14:43	50.26			0.16
LAWE	HE	67.7	ES			14:43	57.88			-0.53
LAWE	HN	67.7	IAML			14:43	58.11	9154	0.28	
LAWE	HE	67.7	IAML			14:43	58.14	18491	0.24	
INVG	HZ	121.0	EP			14:43	58.52			0.45
INVG	HE	121.0	ES			14:44	12.16			-0.05
INVG	HE	121.0	IAML			14:44	13.48	1640	0.20	
INVG	HN	121.0	IAML			14:44	18.08	2530	0.40	
PGB1	HZ	141.0	EP			14:44	01.12			0.22
PGB1	HE	141.0	ES			14:44	17.84			0.74
PGB1	HN	141.0	IAML			14:44	19.92	3030	0.64	
PGB1	HE	141.0	IAML			14:44	20.02	2670	0.38	
LINV	HZ	155.0	EP			14:44	02.92			-0.02
LINV	HN	155.0	ES			14:44	20.74			0.11
LINV	HE	155.0	IAML			14:44	26.15	1842	0.50	
LINV	HN	155.0	IAML			14:44	27.59	802	0.38	
LEWI	HZ	160.0	EP			14:44	04.01			0.31
LEWI	HE	160.0	ES			14:44	22.20			0.25
LEWI	HN	160.0	IAML			14:44	24.98	1269	0.14	
LEWI	HE	160.0	IAML			14:44	25.02	2502	0.24	
EDI	HZ	194.0	EP			14:44	07.70			-0.11
EDI	HN	194.0	IAML			14:44	33.01	1090	0.24	
EDI	HE	194.0	IAML			14:44	36.15	872	0.26	
DRUM	HZ	208.0	EP			14:44	09.23			-0.38
DRUM	HE	208.0	IAML			14:44	38.11	1996	0.28	
DRUM	HN	208.0	IAML			14:44	41.42	2803	0.74	
NEWG	HZ	214.0	EP			14:44	10.63			0.20
NEWG	HN	214.0	IAML			14:44	38.59	1061	0.26	
NEWG	HE	214.0	IAML			14:44	38.74	1799	0.32	
BIGH	HZ	222.0	EP			14:44	10.10			-1.26
BIGH	HN	222.0	IAML			14:44	41.06	1186	0.20	
BIGH	HE	222.0	IAML			14:44	41.94	1585	0.16	
GAL1	HZ	228.0	EP			14:44	12.41			0.29
GAL1	HN	228.0	IAML			14:44	43.42	573	0.30	
GAL1	HE	228.0	IAML			14:44	44.94	1138	0.50	
ESK	HZ	235.0	EP			14:44	13.06			0.00
ESK	HN	235.0	IAML			14:44	44.45	1010	0.26	
ESK	HE	235.0	IAML			14:44	45.26	1036	0.36	
IOMK	HZ	295.0	EP			14:44	20.27			-0.26
IOMK	HE	295.0	IAML			14:45	02.91	607	0.42	
IOMK	HN	295.0	IAML			14:45	07.18	969	0.60	
KESW	HZ	302.0	EP			14:44	21.50			0.05
KESW	HE	302.0	IAML			14:45	10.21	438	0.62	
KESW	HN	302.0	IAML			14:45	12.44	350	1.14	
WIM	EZ	306.0	EP			14:44	21.68			-0.19
ILTH	BZ	310.0	EP			14:44	21.95			-0.44
WPS	HZ	389.0	EP			14:44	32.85			0.61
WPS	HE	389.0	IAML			14:45	14.81	163	0.24	
WPS	HN	389.0	IAML			14:45	31.19	184	0.50	
WLF1	HZ	403.0	EP			14:44	33.43			-0.51
WLF1	HE	403.0	IAML			14:45	34.77	420	0.44	
WLF1	HN	403.0	IAML			14:45	37.94	220	0.66	
GDLE	HZ	415.0	EP			14:44	35.74			0.21
GDLE	HN	415.0	IAML			14:45	41.50	556	0.44	
GDLE	HE	415.0	IAML			14:45	41.87	372	0.36	
HPK	HZ	416.0	EP			14:44	35.93			0.25
HPK	HN	416.0	IAML			14:45	42.52	493	0.50	
HPK	HE	416.0	IAML			14:45	42.57	403	0.50	
LRW	HZ	462.0	EP			14:44	40.55			-0.76
LRW	HN	462.0	IAML			14:45	51.10	130	0.34	
LRW	HE	462.0	IAML			14:45	52.70	135	0.30	
FOEL	HZ	469.0	EP			14:44	41.84			-0.43
FOEL	HE	469.0	IAML			14:45	55.47	289	0.52	
FOEL	HN	469.0	IAML			14:46	03.38	248	0.54	
HLM1	HZ	515.0	EP			14:44	47.51			-0.53
HLM1	HN	515.0	IAML			14:46	07.24	106	0.54	
HLM1	HE	515.0	IAML			14:46	11.41	134	0.68	
RSBS	HZ	545.0	EP			14:44	51.61			-0.17
RSBS	HN	545.0	IAML			14:45	49.06	49	0.36	
RSBS	HE	545.0	IAML			14:46	26.38	31	0.84	
MCH1	HZ	567.0	EP			14:44	54.73			0.24
MCH1	HE	567.0	IAML			14:46	21.42	73	0.62	
MCH1	HN	567.0	IAML			14:46	29.82	62	0.58	
MONM	HZ	588.0	EP			14:44	57.64			0.55
MONM	HE	588.0	IAML			14:46	27.48	153	0.60	
MONM	HN	588.0	IAML			14:46	30.46	163	0.56	

TABLE 2 : PHASE DATA

August 4 2017 Time: 14:45 34.1 UTC Magnitude: 3.4 ML
Lat: 56.798N Lon: -5.869W Depth: 10.6 km
Grid Ref: 163.79 kmE 774.05 kmN RMS: 0.30 secs
Locality: MOIDART,HIGHLAND
Velocity model: Lownet Xnear: 300.0 Xfar: 600.0
Comment: FELT MOIDART... Intensity: 4

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	61.7	IP		D	14:45	44.66			0.15
KPL	HE	61.7	ES			14:45	52.00			-0.11
KPL	HE	61.7	IAML			14:45	52.22	2660	0.26	
KPL	HN	61.7	IAML			14:45	55.67	1345	0.24	
LAWE	HZ	66.5	EP			14:45	45.53			0.25
LAWE	HE	66.5	ES			14:45	53.16			-0.29
LAWE	HN	66.5	IAML			14:45	53.44	3868	0.15	
LAWE	HE	66.5	IAML			14:45	53.47	4481	0.16	
INVG	HZ	119.0	EP			14:45	53.89			0.46
INVG	HE	119.0	ES			14:46	07.58			0.03
INVG	HN	119.0	IAML			14:46	13.01	802	0.52	
INVG	HE	119.0	IAML			14:46	14.51	465	0.38	
LINV	HZ	156.0	EP			14:45	58.20			-0.35
LINV	HE	156.0	IAML			14:46	19.18	668	0.13	
LINV	HN	156.0	IAML			14:46	19.23	286	0.16	
LEWI	HZ	162.0	EP			14:45	59.44			-0.01
LEWI	HE	162.0	IAML			14:46	20.26	777	0.22	
LEWI	HN	162.0	IAML			14:46	20.32	445	0.31	
EDI	HZ	192.0	EP			14:46	03.46			0.18
EDI	HN	192.0	IAML			14:46	30.06	255	0.32	
EDI	HE	192.0	IAML			14:46	34.79	221	0.34	
DRUM	HZ	207.0	EP			14:46	04.56			-0.55
DRUM	HN	207.0	IAML			14:46	33.13	1021	0.20	
DRUM	HE	207.0	IAML			14:46	33.29	765	0.24	
NEWG	HZ	213.0	EP			14:46	05.90			-0.02
NEWG	HE	213.0	IAML			14:46	33.97	603	0.34	
NEWG	HN	213.0	IAML			14:46	33.97	435	0.34	
BIGH	HZ	222.0	EP			14:46	07.45			0.45
BIGH	HE	222.0	IAML			14:46	37.11	295	0.20	
BIGH	HN	222.0	IAML			14:46	37.73	268	0.20	
GAL1	HZ	227.0	EP			14:46	07.64			0.02
GAL1	HN	227.0	IAML			14:46	37.86	213	0.26	
GAL1	HE	227.0	IAML			14:46	40.44	426	0.30	
ESK	HZ	234.0	EP			14:46	08.32			-0.20
ESK	HN	234.0	IAML			14:46	39.62	364	0.36	
ESK	HE	234.0	IAML			14:46	40.49	326	0.36	

August 4 2017 Time: 15:20 24.0 UTC Magnitude: 1.1 ML
Lat: 56.804N Lon: -5.871W Depth: 8.8 km
Grid Ref: 163.71 kmE 774.72 kmN RMS: 0.30 secs
Locality: MOIDART,HIGHLAND
Velocity model: Lownet Xnear: 300.0 Xfar: 600.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	60.5	EP			15:20	34.28			0.02
KPL	HE	60.5	ES			15:20	41.57			-0.15
KPL	HE	60.5	IAML			15:20	41.82	13	0.26	
KPL	HN	60.5	IAML			15:20	45.30	8	0.10	
LAWE	HZ	65.9	EP			15:20	35.30			0.18
LAWE	HN	65.9	ES			15:20	42.78			-0.43
LAWE	HN	65.9	IAML			15:20	43.14	27	0.10	
LAWE	HE	65.9	IAML			15:20	43.30	21	0.29	
INVG	HZ	117.0	EP			15:20	43.53			0.48
INVG	HE	117.0	IAML			15:21	00.65	3	0.03	
INVG	HN	117.0	IAML			15:21	01.63	3	0.10	
LINV	HZ	154.0	EP			15:20	47.96			-0.38
LINV	HN	154.0	IAML			15:21	07.84	2	0.19	
LINV	HE	154.0	IAML			15:21	08.74	4	0.29	
LEWI	HZ	162.0	EP			15:20	49.78			0.28

August 4 2017 Time: 16:07 26.5 UTC Magnitude: 1.2 ML
Lat: 56.794N Lon: -5.893W Depth: 8.2 km
Grid Ref: 162.30 kmE 773.68 kmN RMS: 0.20 secs
Locality: MOIDART,HIGHLAND
Velocity model: Lownet Xnear: 300.0 Xfar: 600.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	62.4	EP			16:07	37.16			0.15
KPL	HE	62.4	ES			16:07	44.46			-0.23
KPL	HE	62.4	IAML			16:07	44.64	16	0.30	
KPL	HN	62.4	IAML			16:07	48.17	10	0.26	
LAWE	HZ	66.8	EP			16:07	37.90			0.18
LAWE	HE	66.8	ES			16:07	45.57			-0.35
LAWE	HE	66.8	IAML			16:07	45.74	22	0.30	
LAWE	HN	66.8	IAML			16:07	46.01	13	0.12	
INVG	HZ	121.0	EP			16:07	46.40			0.30
INVG	HE	121.0	IAML			16:08	01.11	4	0.10	
INVG	HN	121.0	IAML			16:08	02.13	6	0.09	
LINV	HZ	156.0	EP			16:07	51.09			-0.05
LINV	HN	156.0	IAML			16:08	10.73	3	0.13	
LINV	HE	156.0	IAML			16:08	11.78	4	0.16	

August 4 2017 Time: 17:35 06.3 UTC Magnitude: 2.2 ML
Lat: 56.807N Lon: -5.874W Depth: 10.1 km
Grid Ref: 163.54 kmE 775.06 kmN RMS: 0.30 secs
Locality: MOIDART,HIGHLAND
Velocity model: Lownet Xnear: 300.0 Xfar: 600.0
Comment: FELT MOIDART... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	60.8	IP		D	17:35	16.97			0.36
KPL	HE	60.8	ES			17:35	24.19			0.07
KPL	HE	60.8	IAML			17:35	24.44	148	0.26	
KPL	HN	60.8	IAML			17:35	27.94	102	0.26	
LAWE	HZ	67.5	EP			17:35	17.75			0.07
LAWE	HE	67.5	ES			17:35	25.43			-0.54
LAWE	HN	67.5	IAML			17:35	25.78	322	0.26	
LAWE	HE	67.5	IAML			17:35	25.79	258	0.14	
INVG	HZ	120.0	EP			17:35	26.09			0.36
INVG	HN	120.0	ES			17:35	40.22			0.34
INVG	HN	120.0	IAML			17:35	40.47	37	0.22	
INVG	HE	120.0	IAML			17:35	41.94	40	0.07	
PGB1	HZ	140.0	EP			17:35	28.73			0.12
PGB1	HE	140.0	IAML			17:35	46.81	49	0.32	
PGB1	HN	140.0	IAML			17:35	47.43	38	0.34	
LINV	HZ	155.0	EP			17:35	30.45			-0.18
LINV	HN	155.0	IAML			17:35	50.38	26	0.18	
LINV	HE	155.0	IAML			17:35	51.47	43	0.16	
LEWI	HZ	160.0	EP			17:35	31.53			0.02
LEWI	HE	160.0	IAML			17:35	52.50	42	0.24	
LEWI	HN	160.0	IAML			17:35	52.52	23	0.22	
DRUM	HZ	207.0	EP			17:35	36.88			-0.45
DRUM	HN	207.0	IAML			17:36	05.39	50	0.20	
DRUM	HE	207.0	IAML			17:36	05.51	40	0.28	
NEWG	HZ	214.0	EP			17:35	38.16			-0.07
NEWG	HE	214.0	IAML			17:36	06.20	30	0.32	
NEWG	HN	214.0	IAML			17:36	06.22	24	0.28	
BIGH	HZ	221.0	EP			17:35	38.58			-0.53
BIGH	HN	221.0	IAML			17:36	10.77	20	0.22	
BIGH	HE	221.0	IAML			17:36	13.10	18	0.48	
GAL1	HZ	228.0	EP			17:35	40.60			0.66
GAL1	HE	228.0	IAML			17:36	12.68	22	0.30	
GAL1	HN	228.0	IAML			17:36	13.00	13	0.34	
ESK	HZ	235.0	EP			17:35	40.60			-0.23
ESK	HE	235.0	IAML			17:36	11.68	14	0.30	
ESK	HN	235.0	IAML			17:36	11.86	16	0.23	

August 5 2017 Time: 00:49 53.1 UTC Magnitude: 1.1 ML
Lat: 49.362N Lon: -2.338W Depth: 11.0 km
Grid Ref: 375.46 kmE -59.71 kmN RMS: 0.10 secs
Locality: JERSEY,CHANNEL ISLANDS
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 10KM NW JERSEY

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
JSA	HZ	22.8	EP			00:49	57.44			-0.09
JSA	HE	22.8	ES			00:50	00.85			0.05
JSA	HN	22.8	IAML			00:50	01.09	26	0.10	
JSA	HE	22.8	IAML			00:50	01.10	41	0.20	
ROSF	HZ	133.0	EP			00:50	14.37			0.10
ROSF	HZ	133.0	ES			00:50	29.69			-0.06
DYA	HZ	165.0	EP			00:50	18.78			-0.01
DYA	HN	165.0	ES			00:50	37.58			0.01
DYA	HN	165.0	IAML			00:50	38.14	3	0.20	
DYA	HE	165.0	IAML			00:50	42.30	3	0.18	

August 5 2017 Time: 21:05 02.8 UTC Magnitude: 0.8 ML
Lat: 52.270N Lon: -2.771W Depth: 7.7 km
Grid Ref: 347.39 kmE 263.86 kmN RMS: 0.30 secs
Locality: YARPOLE,HEREFORDSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HLM1	HZ	28.6	EP			21:05	08.31			0.12
HLM1	HN	28.6	ES			21:05	11.89			-0.22
HLM1	HN	28.6	IAML			21:05	12.06	15	0.08	
HLM1	HE	28.6	IAML			21:05	12.22	20	0.11	
MCH1	HZ	34.1	IP		C	21:05	08.90			-0.10
MCH1	HN	34.1	ES			21:05	13.35			-0.15
MCH1	HN	34.1	IAML			21:05	13.55	29	0.08	
MCH1	HE	34.1	IAML			21:05	13.57	15	0.09	
FOEL	HZ	74.8	EP			21:05	15.67			0.31
FOEL	HE	74.8	ES			21:05	24.56			0.06
FOEL	HN	74.8	IAML			21:05	24.74	4	0.14	
FOEL	HE	74.8	IAML			21:05	24.93	3	0.16	
LLW	BE	88.5	ES			21:05	27.81			-0.26
LLW	BE	88.5	IAML			21:05	28.06	1	0.20	
LLW	BN	88.5	IAML			21:05	28.07	1	0.20	
LPW	HZ	90.4	EP			21:05	18.07			0.37
LPW	HE	90.4	ES			21:05	28.42			-0.13
LPW	HN	90.4	IAML			21:05	29.06	3	0.13	
LPW	HE	90.4	IAML			21:05	29.08	3	0.13	
CWF	HZ	112.0	EP			21:05	21.48			0.37
CWF	HE	112.0	ES			21:05	34.03			-0.42
CWF	HE	112.0	IAML			21:05	35.85	2	0.12	
CWF	HN	112.0	IAML			21:05	38.33	4	0.09	

TABLE 2 : PHASE DATA

RSBS	HZ	140.0	EP		21:05	25.61			0.43
RSBS	HE	140.0	ES		21:05	41.88			0.39
RSBS	HE	140.0	IAML		21:05	43.03	2	0.13	
RSBS	HN	140.0	IAML		21:05	43.79	3	0.10	

August 6 2017 Time: 02:08 23.7 UTC Magnitude: 1.5 ML
Lat: 54.018N Lon: 0.861W Depth: 10.0 km
Grid Ref: 587.41 kmE 461.81 kmN RMS: 0.40 secs
Locality: SOUTHERN NORTH SEA
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
AU08	HZ	100.0	EP			02:08	40.30			0.18
LMK	HZ	100.0	EP			02:08	40.03			-0.05
LMK	HE	100.0	ES			02:08	51.73			-0.33
LMK	HN	100.0	IAML			02:08	53.94	33	0.22	
LMK	HE	100.0	IAML			02:08	54.26	36	0.24	
AU18	HZ	106.0	EP			02:08	41.06			0.12
AU13	HZ	110.0	EP			02:08	41.77			0.17
AU10	EZ	112.0	EP			02:08	41.92			0.10
AU20	HZ	112.0	EP			02:08	41.90			0.02
AU15	HZ	116.0	EP			02:08	42.52			0.04
GDLE	HZ	118.0	EP			02:08	43.04			0.23
GDLE	HN	118.0	IAML			02:08	59.20	28	0.38	
GDLE	HE	118.0	IAML			02:09	00.71	14	0.32	
AU07	HZ	120.0	EP			02:08	43.07			0.09
AT10	HZ	139.0	EP			02:08	46.00			0.26
WACR	HZ	145.0	EP			02:08	46.51			-0.06
CWF	HZ	203.0	EP			02:08	54.61			0.46
CWF	HE	203.0	IAML			02:09	19.42	2	0.28	
CWF	HN	203.0	IAML			02:09	20.25	3	0.18	
EDMD	HZ	204.0	EP			02:08	53.09			-1.22
EDMD	HE	204.0	IAML			02:09	22.02	2	0.16	
EDMD	HN	204.0	IAML			02:09	24.22	2	0.34	

August 9 2017 Time: 04:41 39.1 UTC Magnitude: 2.0 ML
Lat: 53.512N Lon: -4.402W Depth: 9.5 km
Grid Ref: 240.74 kmE 404.41 kmN RMS: 0.40 secs
Locality: AMLWCH,ANGLESEY
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT AMLWCH Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WPS	HZ	14.0	IP		C	04:41	42.88			0.65
WPS	HN	14.0	ES			04:41	44.78			0.29
WPS	HE	14.0	IAML			04:41	45.04	1136	0.11	
WPS	HN	14.0	IAML			04:41	45.08	622	0.11	
WLF1	HZ	24.8	IP		C	04:41	43.53			-0.32
WLF1	HE	24.8	ES			04:41	46.53			-0.77
WLF1	HE	24.8	IAML			04:41	46.86	258	0.17	
WLF1	HN	24.8	IAML			04:41	47.07	134	0.17	
YRC	EZ	31.3	IP		C	04:41	44.65			-0.19
WIM	EZ	72.9	IP		D	04:41	51.22			-0.13
IOMK	HZ	84.0	EP			04:41	52.94			-0.08
IOMK	HN	84.0	IAML			04:42	04.34	64	0.15	
IOMK	HE	84.0	IAML			04:42	05.35	110	0.24	
LLW	BZ	88.7	IP		D	04:41	53.70			-0.06
FOEL	HZ	106.0	EP			04:41	56.39			-0.11
FOEL	HN	106.0	ES			04:42	09.65			0.46
FOEL	HE	106.0	IAML			04:42	12.46	25	0.60	
FOEL	HN	106.0	IAML			04:42	12.71	27	0.38	
HLM1	HZ	151.0	EP			04:42	03.66			0.72
HLM1	HE	151.0	IAML			04:42	22.54	25	0.21	
HLM1	HN	151.0	IAML			04:42	22.67	19	0.19	
GAL1	HZ	152.0	EP			04:42	03.33			0.23
GAL1	HN	152.0	IAML			04:42	21.00	13	0.72	
GAL1	HE	152.0	IAML			04:42	21.21	19	0.39	
LPW	HZ	157.0	EP			04:42	04.08			0.25
RSBS	HZ	175.0	EP			04:42	06.96			0.75
RSBS	HN	175.0	IAML			04:42	29.61	28	0.24	
RSBS	HE	175.0	IAML			04:42	30.48	18	0.18	
NEWG	HZ	179.0	EP			04:42	06.39			-0.28
NEWG	HN	179.0	IAML			04:42	29.53	12	0.12	
NEWG	HE	179.0	IAML			04:42	29.81	17	0.28	

August 9 2017 Time: 15:34 32.0 UTC Magnitude: 2.0 ML
Lat: 50.351N Lon: -0.414W Depth: 5.0 km
Grid Ref: 512.82 kmE 51.39 kmN RMS: 0.20 secs
Locality: ENGLISH CHANNEL
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 55KM SSW BRIGHTON

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HMNX	HZ	78.3	EP			15:34	44.98			-0.19
HMNX	HE	78.3	ES			15:34	54.92			0.15
HMNX	HE	78.3	IAML			15:34	55.39	75	0.18	
HMNX	HN	78.3	IAML			15:34	58.57	66	0.18	
ELSH	HZ	141.0	EP			15:34	54.72			-0.01
ELSH	HN	141.0	IAML			15:35	14.63	23	0.36	
ELSH	HE	141.0	IAML			15:35	14.92	40	0.58	
JDG	EZ	174.0	EP			15:34	59.02			-0.38
JRS	EE	177.0	EP			15:34	59.82			0.11
JSA	HZ	181.0	EP			15:35	00.60			0.35
JSA	HE	181.0	IAML			15:35	22.93	14	0.34	
JSA	HN	181.0	IAML			15:35	23.97	10	0.17	
DYA	HZ	250.0	EP			15:35	08.94			-0.02
DYA	HN	250.0	IAML			15:35	51.32	10	0.46	
DYA	HE	250.0	IAML			15:35	54.40	8	0.38	

August 10 2017 Time: 12:48 44.6 UTC Magnitude: 1.7 ML
Lat: 53.945N Lon: -3.339W Depth: 2.5 km
Grid Ref: 312.12 kmE 450.73 kmN RMS: 0.30 secs
Locality: IRISH SEA
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 20KM WNW FLEETWOOD

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
AQ09	HZ	29.3	EP			12:48	49.93			-0.16
AQ09	HN	29.3	ES			12:48	54.17			0.10
AQ04	HZ	30.8	EP			12:48	50.10			-0.23
AQ04	HN	30.8	ES			12:48	54.50			0.01
AQ10	HZ	33.8	EP			12:48	50.66			-0.19
KESW	HZ	73.3	EP			12:48	57.28			0.03
KESW	HE	73.3	ES			12:49	06.30			-0.16
KESW	HE	73.3	IAML			12:49	07.37	40	0.54	
KESW	HN	73.3	IAML			12:49	10.11	21	0.24	
IOMK	HZ	87.6	EP			12:48	59.59			0.14
IOMK	HN	87.6	ES			12:49	09.72			-0.55
IOMK	HN	87.6	IAML			12:49	11.73	47	0.16	
IOMK	HE	87.6	IAML			12:49	12.22	47	0.24	
WPS	HZ	97.7	EP			12:49	01.11			0.13
WPS	HN	97.7	ES			12:49	13.33			0.42
WPS	HE	97.7	IAML			12:49	15.46	13	0.22	
WPS	HN	97.7	IAML			12:49	16.28	15	0.19	
WLF1	HZ	101.0	EP			12:49	01.54			0.02
WLF1	HE	101.0	IAML			12:49	15.14	27	0.16	
WLF1	HN	101.0	IAML			12:49	16.41	21	0.20	
YRC	EZ	113.0	EP			12:49	03.20			-0.09
HPK	HZ	113.0	EP			12:49	03.35			0.01
HPK	HE	113.0	IAML			12:49	19.36	45	0.24	
HPK	HN	113.0	IAML			12:49	19.45	59	0.26	
FOEL	HZ	118.0	EP			12:49	03.85			-0.34
FOEL	HN	118.0	IAML			12:49	20.08	16	0.32	
FOEL	HE	118.0	IAML			12:49	21.80	22	0.26	
LBWR	HZ	123.0	EP			12:49	05.49			0.57
LBWR	HE	123.0	IAML			12:49	21.38	44	0.34	
LBWR	HN	123.0	IAML			12:49	22.29	56	0.36	
LLW	BZ	124.0	EP			12:49	04.63			-0.44
LLW	BE	124.0	IAML			12:49	23.76	8	0.45	
LLW	BN	124.0	IAML			12:49	23.80	8	0.40	
EDMD	HZ	133.0	EP			12:49	07.12			0.64
GAL1	HZ	136.0	EP			12:49	07.65			0.77
GAL1	HN	136.0	IAML			12:49	24.91	10	0.16	
GAL1	HE	136.0	IAML			12:49	25.23	8	0.36	
ESK	HZ	153.0	EP			12:49	09.85			0.50
ESK	HE	153.0	IAML			12:49	30.16	13	0.30	
ESK	HN	153.0	IAML			12:49	30.52	11	0.40	
HLM1	HZ	162.0	EP			12:49	10.18			-0.46
HLM1	HE	162.0	IAML			12:49	30.30	12	0.24	
HLM1	HN	162.0	IAML			12:49	32.67	7	0.32	

August 11 2017 Time: 03:44 08.7 UTC Magnitude: 1.4 ML
Lat: 53.234N Lon: -0.350W Depth: 2.4 km
Grid Ref: 510.12 kmE 372.08 kmN RMS: 0.40 secs
Locality: BARDNEY,LINCOLNSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LMK	HZ	24.9	EP			03:44	13.61			-0.21
LMK	HE	24.9	ES			03:44	17.26			-0.28
LMK	HE	24.9	IAML			03:44	24.43	265	0.32	
LMK	HN	24.9	IAML			03:44	26.20	158	0.34	
CWF	HZ	84.7	EP			03:44	23.47			-0.03
CWF	HE	84.7	IAML			03:44	36.05	6	0.22	
CWF	HN	84.7	IAML			03:44	37.68	7	0.10	
LBWR	HZ	93.5	EP			03:44	24.67			-0.22
LBWR	HN	93.5	IAML			03:44	39.57	22	0.24	
LBWR	HE	93.5	IAML			03:44	39.75	24	0.24	
HPK	HZ	117.0	EP			03:44	28.42			-0.04
HPK	HN	117.0	IAML			03:44	45.75	12	0.15	
HPK	HE	117.0	IAML			03:44	45.92	10	0.30	
STNC	HZ	125.0	IAML			03:44	50.45	7	0.44	
GDLE	HZ	136.0	EP			03:44	32.15			0.75
GDLE	HN	136.0	ES			03:44	48.36			0.41
GDLE	HE	136.0	IAML			03:44	51.41	8	0.60	
GDLE	HN	136.0	IAML			03:44	53.52	13	0.40	
AT10	HZ	138.0	EP			03:44	32.45			0.75
AT10	HE	138.0	IAML			03:44	49.17	16	0.32	
AT10	HN	138.0	IAML			03:44	49.82	13	0.28	

August 14 2017 Time: 00:43 35.2 UTC Magnitude: 1.6 ML
Lat: 49.248N Lon: -2.492W Depth: 10.1 km
Grid Ref: 364.20 kmE -72.32 kmN RMS: 0.20 secs

TABLE 2 : PHASE DATA

Locality: JERSEY,CHANNEL ISLANDS
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 15KM WEST JERSEY

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
JDC	EZ	33.0	EP			00:43	41.04			-0.15
JDC	EN	33.0	ES			00:43	45.65			0.09
JDC	EN	33.0	IAML			00:43	46.11	181	0.14	
JDC	EE	33.0	IAML			00:43	46.92	186	0.18	
JDG	EZ	33.0	EP			00:43	40.98			-0.20
JDG	EN	33.0	ES			00:43	45.66			0.11
JDG	EN	33.0	IAML			00:43	46.14	38	0.40	
JDG	EE	33.0	IAML			00:43	46.25	44	0.26	
ROSF	BZ	116.0	EP			00:43	54.08			0.00
ROSF	BN	116.0	IAML			00:44	09.44	11	0.20	
ROSF	BE	116.0	IAML			00:44	10.84	11	0.20	
DYA	HZ	168.0	EP			00:44	01.66			0.35
DYA	HN	168.0	ES			00:44	20.17			-0.20
DYA	HN	168.0	IAML			00:44	22.12	9	0.12	
DYA	HE	168.0	IAML			00:44	23.05	5	0.42	

August 15 2017 Time: 10:20 17.5 UTC Magnitude: 0.8 ML
Lat: 56.403N Lon: -5.588W Depth: 13.1 km
Grid Ref: 178.64 kmE 729.18 kmN RMS: 0.10 secs
Locality: KERRERA,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	19.7	IP		C	10:20	21.59			-0.06
LAWE	HE	19.7	ES			10:20	24.79			0.10
LAWE	HN	19.7	IAML			10:20	24.92	28	0.11	
LAWE	HE	19.7	IAML			10:20	25.30	27	0.32	
PGB1	HZ	95.2	EP			10:20	33.11			-0.02
PGB1	HN	95.2	ES			10:20	44.67			0.12
INVG	HZ	95.4	EP			10:20	33.01			-0.17
INVG	HE	95.4	ES			10:20	44.61			-0.02
INVG	HE	95.4	IAML			10:20	45.52	3	0.13	
INVG	HN	95.4	IAML			10:20	46.07	3	0.12	
KPL	HZ	104.0	EP			10:20	34.30			-0.10
KPL	HE	104.0	ES			10:20	46.93			0.18
KPL	HN	104.0	IAML			10:20	47.85	3	0.17	
KPL	HE	104.0	IAML			10:20	47.86	4	0.20	
CLGH	HN	151.0	ES			10:20	58.18			-0.08

August 16 2017 Time: 02:27 31.7 UTC Magnitude: 1.0 ML
Lat: 53.051N Lon: -4.521W Depth: 3.0 km
Grid Ref: 231.05 kmE 353.42 kmN RMS: 0.40 secs
Locality: CAERNARFON BAY
Velocity model: Lleyn Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
YRC	EZ	22.6	EP			02:27	35.43			-0.19
WLF1	HZ	27.8	EP			02:27	36.17			-0.32
WLF1	HN	27.8	ES			02:27	39.55			-0.19
WLF1	HE	27.8	IAML			02:27	39.64	88	0.10	
WLF1	HN	27.8	IAML			02:27	39.74	52	0.18	
WPS	HZ	38.9	EP			02:27	39.02			0.69
WPS	HE	38.9	ES			02:27	43.41			0.58
WPS	HN	38.9	IAML			02:27	44.01	6	0.57	
WPS	HE	38.9	IAML			02:27	45.14	4	0.22	
LLW	BZ	61.8	EP			02:27	42.15			0.04
LLW	BN	61.8	ES			02:27	49.34			0.16
LLW	BN	61.8	IAML			02:27	49.62	6	0.35	
LLW	BE	61.8	IAML			02:27	50.14	3	0.20	
FOEL	HZ	90.6	EP			02:27	46.42			-0.47
FOEL	HE	90.6	ES			02:27	56.91			-0.30
FOEL	HN	90.6	IAML			02:27	58.06	6	0.70	
FOEL	HE	90.6	IAML			02:27	58.94	6	0.26	
LPW	HZ	109.0	EP			02:27	49.89			0.03
LPW	HE	109.0	ES			02:28	02.60			0.41
RSBS	HZ	123.0	EP			02:27	52.26			0.10
RSBS	HE	123.0	ES			02:28	06.25			0.18
RSBS	HE	123.0	IAML			02:28	08.84	2	0.05	
RSBS	HN	123.0	IAML			02:28	09.06	2	0.09	
DSB	BZ	126.0	ES			02:28	06.06			-0.70
HLM1	HZ	126.0	EP			02:27	52.33			-0.22
HLM1	HE	126.0	ES			02:28	06.78			0.06
HLM1	HN	126.0	IAML			02:28	09.23	4	0.11	
HLM1	HE	126.0	IAML			02:28	09.85	3	0.15	
IOMK	HZ	135.0	EP			02:27	53.52			-0.42
IOMK	HE	135.0	ES			02:28	09.11			0.07
IOMK	HE	135.0	IAML			02:28	09.97	7	0.21	
IOMK	HN	135.0	IAML			02:28	10.08	5	0.13	
MCH1	HZ	156.0	EP			02:27	56.76			-0.50
MCH1	HN	156.0	ES			02:28	15.33			0.70
MCH1	HE	156.0	IAML			02:28	16.79	4	0.24	
MCH1	HN	156.0	IAML			02:28	16.91	4	0.14	
MONM	HE	178.0	ES			02:28	20.66			1.22
MONM	HN	178.0	IAML			02:28	22.61	4	0.17	
MONM	HE	178.0	IAML			02:28	22.66	6	0.21	

August 20 2017 Time: 01:42 42.2 UTC Magnitude: 0.7 ML
Lat: 55.665N Lon: -5.634W Depth: 12.2 km
Grid Ref: 171.48 kmE 647.26 kmN RMS: 0.30 secs
Locality: TAYINLOAN,ARGYLL/BUTE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	67.8	EP			01:42	53.84			0.20
LAWE	HN	67.8	ES			01:43	01.46			-0.52
LAWE	HN	67.8	IAML			01:43	02.30	2	0.40	
LAWE	HE	67.8	IAML			01:43	05.22	2	0.16	
CLGH	HZ	71.5	EP			01:42	54.60			0.37
CLGH	HN	71.5	ES			01:43	02.72			-0.27
CLGH	HE	71.5	IAML			01:43	03.03	6	0.24	
CLGH	HN	71.5	IAML			01:43	03.08	5	0.24	
PGB1	HZ	74.1	EP			01:42	54.96			0.34
PGB1	HE	74.1	ES			01:43	03.62			-0.05
PGB1	HE	74.1	IAML			01:43	04.07	4	0.46	
PGB1	HN	74.1	IAML			01:43	04.44	4	0.52	
GAL1	HN	107.0	ES			01:43	12.12			-0.04
GAL1	HE	107.0	IAML			01:43	14.16	3	0.16	
GAL1	HN	107.0	IAML			01:43	14.61	2	0.20	
NEWG	HN	108.0	ES			01:43	11.99			-0.52
NEWG	HN	108.0	IAML			01:43	12.21	3	0.20	
NEWG	HE	108.0	IAML			01:43	14.84	2	0.21	
INVG	HZ	130.0	EP			01:43	03.18			0.19
ESK	HN	158.0	ES			01:43	25.33			0.31

August 25 2017 Time: 20:56 52.9 UTC Magnitude: 0.6 ML
Lat: 57.200N Lon: -5.531W Depth: 4.5 km
Grid Ref: 186.73 kmE 817.64 kmN RMS: 0.10 secs
Locality: GLENELG,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	17.2	IP		C	20:56	56.39			0.06
KPL	HE	17.2	ES			20:56	58.74			-0.07
KPL	HE	17.2	IAML			20:56	59.01	12	0.22	
KPL	HN	17.2	IAML			20:56	59.02	10	0.17	
LAWE	HE	105.0	ES			20:57	23.00			0.07
LAWE	HE	105.0	IAML			20:57	25.48	2	0.20	
LAWE	HN	105.0	IAML			20:57	25.58	3	0.24	
LINV	HZ	107.0	EP			20:57	10.78			0.15
LINV	HE	107.0	ES			20:57	23.56			0.00
LINV	HE	107.0	IAML			20:57	24.25	2	0.18	
LINV	HN	107.0	IAML			20:57	24.37	1	0.44	
INVG	HZ	125.0	EP			20:57	13.17			-0.25
INVG	HN	125.0	IAML			20:57	28.53	1	0.10	
INVG	HE	125.0	IAML			20:57	29.25	1	0.17	
LEWI	HZ	132.0	EP			20:57	14.53			0.06
LEWI	HN	132.0	ES			20:57	30.06			-0.14
LEWI	HN	132.0	IAML			20:57	31.12	1	0.36	
LEWI	HE	132.0	IAML			20:57	31.58	2	0.20	

August 26 2017 Time: 23:47 41.3 UTC Magnitude: 2.0 ML
Lat: 59.821N Lon: 2.198W Depth: 10.0 km
Grid Ref: 635.29 kmE 1111.37 kmN RMS: 0.20 secs
Locality: NORTHERN NORTH SEA
Velocity model: North Sea Xnear: 400.0 Xfar: 600.0
Comment: 190KM ESE LERWICK

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LRW	HZ	192.0	EP			23:48	09.61			-0.02
LRW	HN	192.0	ES			23:48	30.44			0.14
LRW	HN	192.0	IAML			23:48	41.75	6	0.30	
LRW	HE	192.0	IAML			23:48	42.52	6	0.34	
BIGH	HZ	379.0	EP			23:48	33.08			0.15
BIGH	HN	379.0	ES			23:49	10.41			-0.20
BIGH	HN	379.0	IAML			23:49	12.19	3	0.21	
BIGH	HE	379.0	IAML			23:49	13.25	3	0.17	
DRUM	HZ	424.0	EP			23:48	38.54			0.02
DRUM	HN	424.0	ES			23:49	20.48			0.20
DRUM	HN	424.0	IAML			23:49	22.26	4	0.36	
DRUM	HE	424.0	IAML			23:49	23.37	5	0.48	
LINV	HZ	464.0	EP			23:48	42.97			-0.48
INVG	HZ	527.0	EP			23:48	51.09			-0.20
LEWI	HZ	553.0	EP			23:48	54.53			-0.03

August 29 2017 Time: 18:10 41.2 UTC Magnitude: 1.3 ML
Lat: 55.790N Lon: -6.355W Depth: 8.4 km
Grid Ref: 127.04 kmE 663.77 kmN RMS: 0.30 secs
Locality: ISLAY,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	79.3	EP			18:10	54.12			-0.27
LAWE	HE	79.3	ES			18:11	03.72			-0.28
LAWE	HE	79.3	IAML			18:11	06.76	17	0.12	
LAWE	HN	79.3	IAML			18:11	07.10	12	0.19	
CLGH	HZ	80.2	EP			18:10	54.88			0.32
CLGH	HN	80.2	ES			18:11	03.91			-0.37
CLGH	HE	80.2	IAML			18:11	06.25	17	0.18	
CLGH	HN	80.2	IAML			18:11	06.68	25	0.20	

TABLE 2 : PHASE DATA

PGB1	HZ	117.0	EP	18:11	00.94			0.64
PGB1	HE	117.0	ES	18:11	14.48			0.25
PGB1	HN	117.0	IAML	18:11	15.55	10	0.29	
PGB1	HE	117.0	IAML	18:11	16.07	8	0.24	
NEWG	HZ	154.0	EP	18:11	05.46			-0.07
NEWG	HN	154.0	ES	18:11	23.23			-0.05
NEWG	HN	154.0	IAML	18:11	24.04	4	0.15	
NEWG	HE	154.0	IAML	18:11	24.05	2	0.18	
INVG	HZ	160.0	EP	18:11	06.62			0.14
INVG	HE	160.0	IAML	18:11	28.79	3	0.16	
INVG	HN	160.0	IAML	18:11	29.01	3	0.28	

August 30 2017 Time: 02:43 47.3 UTC Magnitude: 1.1 ML
Lat: 55.127N Lon: -5.043W Depth: 7.5 km
Grid Ref: 206.01 kmE 585.64 kmN RMS: 0.40 secs
Locality: BALLANTRAE,AYRSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 300.0
Comment: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
NEWG	HZ	51.9	IP		C	02:43	55.97			-0.22
NEWG	HN	51.9	ES			02:44	02.04			-0.66
NEWG	HN	51.9	IAML			02:44	02.93	8	0.10	
NEWG	HE	51.9	IAML			02:44	03.46	9	0.15	
CLGH	HZ	68.3	EP			02:43	58.84			0.09
CLGH	HN	68.3	ES			02:44	06.87			-0.25
CLGH	HN	68.3	IAML			02:44	10.07	6	0.08	
CLGH	HE	68.3	IAML			02:44	10.21	7	0.16	
PGB1	HZ	84.0	IP		C	02:44	01.38			0.20
PGB1	HE	84.0	ES			02:44	11.27			-0.06
PGB1	HE	84.0	IAML			02:44	14.74	10	0.14	
PGB1	HN	84.0	IAML			02:44	15.52	10	0.10	
IOMK	HZ	101.0	EP			02:44	04.23			0.38
IOMK	HE	101.0	ES			02:44	15.63			-0.32
IOMK	HN	101.0	IAML			02:44	16.85	13	0.11	
IOMK	HE	101.0	IAML			02:44	16.89	12	0.17	
ESK	HZ	119.0	EP			02:44	06.84			0.25
ESK	HN	119.0	ES			02:44	20.89			0.19
ESK	HN	119.0	IAML			02:44	22.31	9	0.22	
ESK	HE	119.0	IAML			02:44	22.86	5	0.15	
LAWE	HZ	128.0	EP			02:44	08.34			0.40
LAWE	HE	128.0	ES			02:44	22.32			-0.71
LAWE	HE	128.0	IAML			02:44	23.62	3	0.21	
LAWE	HN	128.0	IAML			02:44	24.22	3	0.23	
KESW	HZ	138.0	EP			02:44	10.08			0.67
KESW	HN	138.0	IAML			02:44	26.80	4	0.31	
KESW	HE	138.0	IAML			02:44	27.04	5	0.31	
INVG	HZ	158.0	EP			02:44	12.39			0.18
INVG	HE	158.0	ES			02:44	30.75			0.34
INVG	HE	158.0	IAML			02:44	33.72	3	0.18	
INVG	HN	158.0	IAML			02:44	34.99	2	0.05	

September 2 2017 Time: 10:57 30.0 UTC Magnitude: 1.0 ML
Lat: 56.083N Lon: -5.162W Depth: 11.7 km
Grid Ref: 203.27 kmE 692.30 kmN RMS: 0.20 secs
Locality: DUNANS,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	24.5	IP		C	10:57	34.77			0.04
LAWE	HN	24.5	ES			10:57	38.12			-0.10
LAWE	HN	24.5	IAML			10:57	38.29	26	0.12	
LAWE	HE	24.5	IAML			10:57	38.45	35	0.18	
PGB1	HZ	52.1	IP		C	10:57	39.11			0.17
PGB1	HE	52.1	ES			10:57	45.46			-0.05
PGB1	HN	52.1	IAML			10:57	45.96	4	0.17	
PGB1	HE	52.1	IAML			10:57	48.30	8	0.09	
INVG	HZ	79.2	EP			10:57	43.29			0.14
INVG	HE	79.2	ES			10:57	52.65			-0.13
INVG	HN	79.2	IAML			10:57	55.15	7	0.09	
INVG	HE	79.2	IAML			10:57	55.99	8	0.10	
NEWG	HZ	123.0	EP			10:57	49.47			-0.12
NEWG	HE	123.0	ES			10:58	03.75			-0.17
NEWG	HN	123.0	IAML			10:58	05.31	3	0.10	
NEWG	HE	123.0	IAML			10:58	05.46	5	0.17	
CLGH	HZ	126.0	EP			10:57	50.05			-0.11
CLGH	HE	126.0	IAML			10:58	05.69	3	0.10	
CLGH	HN	126.0	IAML			10:58	06.01	4	0.12	
KPL	HZ	143.0	EP			10:57	53.46			0.98
KPL	HE	143.0	ES			10:58	10.19			1.26
KPL	HE	143.0	IAML			10:58	10.88	4	0.23	
KPL	HN	143.0	IAML			10:58	11.59	2	0.19	
ESK	HZ	150.0	EP			10:57	53.48			-0.02
ESK	HN	150.0	IAML			10:58	13.31	2	0.18	
ESK	HE	150.0	IAML			10:58	13.62	2	0.32	

September 7 2017 Time: 12:08 41.9 UTC Magnitude: 1.3 ML
Lat: 56.781N Lon: -5.469W Depth: 11.6 km
Grid Ref: 188.10 kmE 770.85 kmN RMS: 0.20 secs
Locality: GLENFINNAN,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 175.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	58.1	IP		D	12:08	52.05			0.20
LAWE	HE	58.1	ES			12:08	58.82			-0.27
LAWE	HN	58.1	IAML			12:08	59.24	8	0.14	
LAWE	HE	58.1	IAML			12:08	59.69	9	0.12	
KPL	HZ	63.2	EP			12:08	52.89			0.28
KPL	HE	63.2	ES			12:09	00.10			-0.30
KPL	HN	63.2	IAML			12:09	03.97	12	0.24	
KPL	HE	63.2	IAML			12:09	04.10	11	0.15	
INVG	HZ	95.9	EP			12:08	57.99			0.26
INVG	HE	95.9	ES			12:09	09.10			-0.15
INVG	HE	95.9	IAML			12:09	11.60	32	0.11	
INVG	HN	95.9	IAML			12:09	11.71	30	0.11	
LINV	HZ	153.0	EP			12:09	06.11			0.19
LINV	HE	153.0	ES			12:09	23.08			-0.33
LINV	HE	153.0	IAML			12:09	26.40	4	0.10	
LINV	HN	153.0	IAML			12:09	27.05	3	0.14	
LEWI	HZ	174.0	EP			12:09	08.89			0.25
LEWI	HE	174.0	ES			12:09	28.07			-0.06
LEWI	HE	174.0	IAML			12:09	30.16	5	0.20	
LEWI	HN	174.0	IAML			12:09	31.33	3	0.26	

September 8 2017 Time: 20:47 09.8 UTC Magnitude: 1.3 ML
Lat: 52.685N Lon: -0.747W Depth: 2.7 km
Grid Ref: 484.69 kmE 310.48 kmN RMS: 0.40 secs
Locality: LANGHAM,RUTLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT OAKHAM... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CWF	HZ	38.3	EP			20:47	16.77			-0.05
CWF	HE	38.3	ES			20:47	21.45			-0.48
CWF	HE	38.3	IAML			20:47	21.77	8	0.12	
CWF	HN	38.3	IAML			20:47	21.82	21	0.16	
WACR	HE	93.1	EP			20:47	25.50			0.06
WACR	HN	93.1	ES			20:47	36.65			-0.19
WACR	HZ	93.1	IAML			20:47	37.30	5	0.12	
WACR	HN	93.1	IAML			20:47	37.92	10	0.23	
LBWR	HZ	103.0	EP			20:47	27.28			0.21
LBWR	HE	103.0	ES			20:47	39.66			0.01
LBWR	HE	103.0	IAML			20:47	43.09	9	0.30	
LBWR	HN	103.0	IAML			20:47	45.40	11	0.30	
HLM1	HZ	146.0	EP			20:47	34.41			0.89
HLM1	HN	146.0	ES			20:47	51.11			0.30
HLM1	HE	146.0	IAML			20:47	53.73	4	0.18	
HLM1	HN	146.0	IAML			20:47	54.44	5	0.31	
HPK	HE	153.0	ES			20:47	52.85			0.25
HPK	HE	153.0	IAML			20:47	53.92	10	0.30	
HPK	HN	153.0	IAML			20:47	54.00	8	0.18	
MONM	HE	169.0	ES			20:47	56.25			-0.23
MONM	HE	169.0	IAML			20:47	58.92	6	0.15	
MONM	HN	169.0	IAML			20:47	58.93	8	0.14	
MCH1	HZ	171.0	EP			20:47	37.82			0.67
MCH1	HN	171.0	ES			20:47	57.55			0.45
MCH1	HN	171.0	IAML			20:47	58.85	3	0.20	
MCH1	HE	171.0	IAML			20:48	00.81	3	0.13	

September 9 2017 Time: 03:06 11.1 UTC Magnitude: 0.5 ML
Lat: 56.080N Lon: -5.503W Depth: 12.7 km
Grid Ref: 182.05 kmE 692.99 kmN RMS: 0.30 secs
Locality: CAIRNBAAN,ARGYLL/BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	21.0	IP		D	03:06	15.36			-0.10
LAWE	HE	21.0	ES			03:06	18.53			-0.08
LAWE	HN	21.0	IAML			03:06	18.99	8	0.09	
LAWE	HE	21.0	IAML			03:06	19.11	14	0.09	
PGB1	HZ	70.4	EP			03:06	23.15			0.18
PGB1	HN	70.4	ES			03:06	31.56			-0.04
PGB1	HE	70.4	IAML			03:06	33.33	1	0.34	
PGB1	HN	70.4	IAML			03:06	33.80	1	0.14	
INVG	HZ	98.3	EP			03:06	27.65			0.37
INVG	HN	98.3	ES			03:06	38.84			-0.22
INVG	HE	98.3	IAML			03:06	41.12	2	0.10	
INVG	HN	98.3	IAML			03:06	41.56	2	0.22	
CLGH	HZ	117.0	EP			03:06	29.70			-0.31
NEWG	HN	134.0	ES			03:06	47.48			-0.33
NEWG	HN	134.0	IAML			03:06	48.58	1	0.13	
NEWG	HE	134.0	IAML			03:06	50.66	1	0.23	
KPL	HZ	140.0	EP			03:06	34.38			1.14

September 10 2017 Time: 05:40 54.1 UTC Magnitude: 0.9 ML
Lat: 56.507N Lon: -6.138W Depth: 12.4 km
Grid Ref: 145.42 kmE 742.65 kmN RMS: 0.40 secs
Locality: MULL,ARGYLL & BUTE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	53.3	EP			05:41	03.41			0.17
LAWE	HN	53.3	ES			05:41	09.42			-0.51
LAWE	HE	53.3	IAML			05:41	09.62	7	0.17	

TABLE 2 : PHASE DATA

LAWE	HN	53.3	IAML	05:41	09.84	6	0.12	
KPL	HZ	97.3	EP	05:41	10.00			-0.01
KPL	HE	97.3	IAML	05:41	23.37	2	0.20	
KPL	HN	97.3	IAML	05:41	24.47	3	0.12	
INVG	HZ	129.0	EP	05:41	15.48			0.83
INVG	HN	129.0	ES	05:41	29.45			-0.23
INVG	HE	129.0	IAML	05:41	31.24	5	0.10	
INVG	HN	129.0	IAML	05:41	31.27	3	0.11	
LEWI	HE	188.0	ES	05:41	42.72			-0.45
LINV	HE	191.0	ES	05:41	44.07			0.20
LINV	HN	191.0	IAML	05:41	47.70	1	0.24	
LINV	HE	191.0	IAML	05:41	47.73	2	0.32	

September 10 2017 Time: 09:52 45.4 UTC Magnitude: 0.6 ML
Lat: 51.687N Lon: -4.440W Depth: 8.1 km
Grid Ref: 231.35 kmE 201.56 kmN RMS: 0.40 secs
Locality: CARMARTHEN BAY
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
RSBS	HZ	36.3	EP			09:52	52.60			0.69
RSBS	HE	36.3	ES			09:52	56.15			-0.52
RSBS	HN	36.3	IAML			09:52	57.78	5	0.04	
RSBS	HE	36.3	IAML			09:52	57.87	5	0.05	
LPW	HZ	53.9	EP			09:52	54.57			-0.04
LPW	HE	53.9	ES			09:53	01.23			-0.11
LPW	HE	53.9	IAML			09:53	01.40	1	0.08	
LPW	HN	53.9	IAML			09:53	01.41	1	0.15	
HTL	HZ	77.1	EP			09:52	58.52			0.31
HTL	HN	77.1	ES			09:53	07.24			-0.33
HTL	HN	77.1	IAML			09:53	08.12	7	0.13	
HTL	HE	77.1	IAML			09:53	08.93	4	0.20	
HLM1	HE	141.0	ES			09:53	24.49			0.03
HLM1	HE	141.0	IAML			09:53	26.03	2	0.18	
HLM1	HN	141.0	IAML			09:53	26.33	3	0.21	

September 11 2017 Time: 20:15 59.6 UTC Magnitude: 0.7 ML
Lat: 53.315N Lon: -1.831W Depth: 1.1 km
Grid Ref: 411.26 kmE 379.83 kmN RMS: 0.10 secs
Locality: TIDESWELL,DERBYSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: COLLAPSE TYPE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LBWR	HZ	12.0	EP			20:16	02.40			0.19
LBWR	HN	12.0	ES			20:16	03.96			-0.12
LBWR	HE	12.0	IAML			20:16	05.08	16	0.08	
LBWR	HZ	12.0	IAML			20:16	05.61	13	0.22	
STNC	HZ	35.3	EP			20:16	06.06			-0.08
STNC	HE	35.3	ES			20:16	10.91			0.04
STNC	HE	35.3	IAML			20:16	11.23	17	0.22	
STNC	HN	35.3	IAML			20:16	11.77	17	0.33	
CWF	HZ	73.1	EP			20:16	12.21			0.00
HLM1	HZ	113.0	EP			20:16	18.37			-0.11
HLM1	HE	113.0	ES			20:16	32.30			0.07
HLM1	HE	113.0	IAML			20:16	33.33	3	0.27	
HLM1	HN	113.0	IAML			20:16	36.22	2	0.28	

September 13 2017 Time: 01:09 00.6 UTC Magnitude: 0.5 ML
Lat: 57.584N Lon: -5.384W Depth: 4.5 km
Grid Ref: 197.73 kmE 859.90 kmN RMS: 0.40 secs
Locality: KINLOCHEWE,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 175.0
Comment: 5KM WSW KINLOCHEWE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	31.7	EP			01:09	06.57			0.15
KPL	HN	31.7	ES			01:09	10.14			-0.54
KPL	HN	31.7	IAML			01:09	10.61	4	0.19	
KPL	HE	31.7	IAML			01:09	10.61	7	0.18	
LINV	HZ	63.7	EP			01:09	11.70			0.04
LINV	HN	63.7	ES			01:09	19.36			-0.38
LINV	HE	63.7	IAML			01:09	19.73	2	0.27	
LINV	HN	63.7	IAML			01:09	19.75	2	0.39	
LEWI	HZ	108.0	EP			01:09	19.18			0.61
LEWI	HN	108.0	ES			01:09	31.66			-0.04
LEWI	HN	108.0	IAML			01:09	33.01	1	0.13	
LEWI	HE	108.0	IAML			01:09	33.53	1	0.15	
BIGH	HE	134.0	ES			01:09	38.36			-0.10
LAWE	HZ	147.0	EP			01:09	25.37			0.89
LAWE	HE	147.0	ES			01:09	42.49			0.57
LAWE	HN	147.0	IAML			01:09	44.42	2	0.21	
LAWE	HE	147.0	IAML			01:09	44.63	3	0.25	
INVG	HZ	152.0	EP			01:09	25.91			0.69
INVG	HE	152.0	ES			01:09	43.66			0.47
INVG	HN	152.0	IAML			01:09	44.14	1	0.29	
INVG	HE	152.0	IAML			01:09	44.18	1	0.24	

September 13 2017 Time: 01:16 41.1 UTC Magnitude: 1.3 ML
Lat: 53.651N Lon: -0.890W Depth: 8.0 km
Grid Ref: 473.36 kmE 417.76 kmN RMS: 0.30 secs
Locality: THORNE,SOUTH YORKSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0
Comment: 6KM NE THORNE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LMK	HZ	43.1	EP			01:16	48.39			-0.22
LMK	HE	43.1	ES			01:16	54.12			-0.01
LMK	HE	43.1	IAML			01:16	54.73	62	0.45	
LMK	HN	43.1	IAML			01:16	54.78	59	0.27	
HPK	HZ	59.2	EP			01:16	51.45			0.32
HPK	HN	59.2	ES			01:16	58.10			-0.38
HPK	HE	59.2	IAML			01:16	58.93	12	0.23	
HPK	HN	59.2	IAML			01:17	00.04	15	0.22	
LBWR	HZ	61.9	EP			01:16	51.55			-0.02
LBWR	HE	61.9	ES			01:16	59.32			0.08
LBWR	HE	61.9	IAML			01:16	59.74	13	0.23	
LBWR	HN	61.9	IAML			01:17	00.83	11	0.13	
GDLE	HZ	85.9	EP			01:16	55.65			0.39
GDLE	HE	85.9	ES			01:17	05.42			-0.21
GDLE	HE	85.9	IAML			01:17	08.25	21	0.18	
GDLE	HN	85.9	IAML			01:17	08.84	22	0.33	
CWF	HZ	105.0	EP			01:16	58.62			0.36
CWF	HN	105.0	ES			01:17	10.53			-0.29
CWF	HN	105.0	IAML			01:17	12.67	7	0.16	
CWF	HE	105.0	IAML			01:17	13.16	5	0.06	

September 13 2017 Time: 06:50 40.5 UTC Magnitude: 0.5 ML
Lat: 56.143N Lon: -5.767W Depth: 4.3 km
Grid Ref: 166.02 kmE 700.86 kmN RMS: 0.30 secs
Locality: SCARBA,ARGYLL & BUTE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	26.3	EP			06:50	45.10			-0.30
LAWE	HN	26.3	ES			06:50	48.61			-0.40
LAWE	HN	26.3	IAML			06:50	48.88	12	0.24	
LAWE	HE	26.3	IAML			06:50	49.12	12	0.20	
INVG	HZ	111.0	EP			06:50	59.04			0.14
INVG	HN	111.0	ES			06:51	12.84			0.48
INVG	HN	111.0	IAML			06:51	14.79	1	0.15	
INVG	HE	111.0	IAML			06:51	15.09	1	0.20	
CLGH	HZ	120.0	EP			06:51	00.19			-0.05
KPL	HE	133.0	ES			06:51	18.26			0.13

September 14 2017 Time: 08:14 46.2 UTC Magnitude: 3.3 ML
Lat: 58.747N Lon: 1.542W Depth: 18.0 km
Grid Ref: 604.91 kmE 989.75 kmN RMS: 0.50 secs
Locality: CENTRAL NORTH SEA
Velocity model: North Sea Xnear: 400.0 Xfar: 800.0
Comment: 220KM SE LERWICK

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LRW	HZ	218.0	EP			08:15	17.37			0.23
LRW	HE	218.0	ES			08:15	40.03			0.33
LRW	HN	218.0	IAML			08:15	56.71	53	0.40	
LRW	HE	218.0	IAML			08:15	57.64	55	0.38	
BER	HZ	281.0	EP			08:15	24.72			-0.24
BER	HE	281.0	IAML			08:15	52.70	18	0.54	
BER	HN	281.0	IAML			08:15	53.33	23	0.34	
DRUM	HZ	315.0	EP			08:15	29.83			0.73
DRUM	HN	315.0	ES			08:16	00.56			0.18
DRUM	HE	315.0	IAML			08:16	01.99	187	0.18	
DRUM	HN	315.0	IAML			08:16	02.91	201	0.20	
BIGH	HZ	318.0	EP			08:15	30.08			0.58
BIGH	HN	318.0	ES			08:16	01.06			-0.02
BIGH	HE	318.0	IAML			08:16	02.18	60	0.46	
BIGH	HN	318.0	IAML			08:16	03.99	78	0.24	
FOO	HZ	372.0	EP			08:15	35.62			-0.61
FOO	HE	372.0	IAML			08:16	11.87	18	0.48	
FOO	HN	372.0	IAML			08:16	14.23	13	0.24	
LINV	HZ	399.0	EP			08:15	39.81			0.25
LINV	HN	399.0	ES			08:16	17.61			-0.87
LINV	HE	399.0	IAML			08:16	20.54	37	0.34	
LINV	HN	399.0	IAML			08:16	29.04	35	0.38	
INVG	HZ	422.0	EP			08:15	43.12			0.66
INVG	HN	422.0	ES			08:16	22.99			-0.50
INVG	HN	422.0	IAML			08:16	25.52	102	0.26	
INVG	HE	422.0	IAML			08:16	25.75	49	0.24	
KPL	HZ	453.0	EP			08:15	46.17			-0.06
KPL	HN	453.0	IAML			08:16	33.64	30	0.28	
KPL	HE	453.0	IAML			08:16	34.22	24	0.86	
ESK	HZ	478.0	EP			08:15	49.55			0.11
ESK	HE	478.0	IAML			08:16	38.57	45	0.52	
ESK	HN	478.0	IAML			08:16	40.31	43	0.28	
EDMD	HZ	486.0	EP			08:15	50.07			-0.25
EDMD	HE	486.0	IAML			08:16	40.40	54	0.14	
EDMD	HN	486.0	IAML			08:16	41.42	52	0.20	
PGB1	HZ	489.0	EP			08:15	51.63			0.93
PGB1	HN	489.0	IAML			08:16	40.39	53	0.24	
PGB1	HE	489.0	IAML			08:16	40.55	49	0.40	
LEWI	HZ	495.0	EP			08:15	51.83			0.27
LEWI	HN	495.0	ES			08:16	38.02			-1.23

TABLE 2 : PHASE DATA

LEWI	HN	495.0	IAML	08:16	44.55	23	0.40	
LEWI	HE	495.0	IAML	08:16	45.85	16	0.52	
LAWE	HZ	499.0	EP	08:15	51.92			-0.13
LAWE	HN	499.0	IAML	08:16	43.10	57	0.34	
LAWE	HE	499.0	IAML	08:16	43.59	75	0.22	
AS10	HZ	511.0	EP	08:15	53.22			-0.23
AT10	HZ	515.0	EP	08:15	53.93			-0.09
MUD	HZ	522.0	EP	08:15	54.36			-0.47
NEWG	HZ	535.0	EP	08:15	57.05			0.56
NEWG	HN	535.0	ES	08:16	47.47			-0.31
NEWG	HE	535.0	IAML	08:16	49.62	24	0.46	
NEWG	HN	535.0	IAML	08:16	53.09	33	0.24	
MOL	HZ	538.0	EP	08:15	56.99			0.21
KESW	HZ	543.0	EP	08:15	57.46			-0.06
KESW	HN	543.0	IAML	08:16	53.70	26	0.46	
KESW	HE	543.0	IAML	08:16	54.13	27	0.46	
HPK	HZ	568.0	EP	08:16	00.44			-0.12
HPK	HE	568.0	IAML	08:16	59.39	49	0.40	
HPK	HN	568.0	IAML	08:16	59.73	58	0.44	
GAL1	HZ	576.0	EP	08:16	01.69			0.10
GAL1	HE	576.0	ES	08:16	55.82			-0.78
GAL1	HE	576.0	IAML	08:16	58.58	38	0.30	
GAL1	HN	576.0	IAML	08:16	58.68	35	0.26	
LBWR	HZ	629.0	EP	08:16	08.04			-0.10
LBWR	HE	629.0	IAML	08:17	11.44	44	0.36	
LBWR	HN	629.0	IAML	08:17	14.23	55	0.32	
YRC	EZ	721.0	EP	08:16	18.87			-0.63

September 18 2017 Time: 12:26 16.8 UTC Magnitude: 1.1 ML
Lat: 56.799N Lon: -5.858W Depth: 8.3 km
Grid Ref: 164.47 kmE 774.12 kmN RMS: 0.30 secs
Locality: MOIDART,HIGHLAND
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	61.4	EP		12:26	27.36			0.09
KPL	HE	61.4	ES		12:26	34.59			-0.31
KPL	HE	61.4	IAML		12:26	34.85	12	0.26	
KPL	HN	61.4	IAML		12:26	38.34	7	0.26	
LAWE	HZ	66.3	EP		12:26	28.22			0.16
LAWE	HN	66.3	ES		12:26	35.85			-0.42
LAWE	HN	66.3	IAML		12:26	36.12	27	0.12	
LAWE	HE	66.3	IAML		12:26	36.28	22	0.20	
INVG	HZ	119.0	EP		12:26	36.55			0.32
INVG	HN	119.0	ES		12:26	50.62			0.23
INVG	HN	119.0	IAML		12:26	53.31	2	0.16	
INVG	HE	119.0	IAML		12:26	53.65	4	0.16	
LINV	HZ	155.0	EP		12:26	41.00			-0.47
LEWI	HN	162.0	ES		12:27	01.51			0.40
LEWI	HE	162.0	IAML		12:27	02.91	3	0.22	
LEWI	HN	162.0	IAML		12:27	03.21	2	0.20	

September 20 2017 Time: 04:32 32.3 UTC Magnitude: 0.4 ML
Lat: 55.947N Lon: -4.828W Depth: 11.6 km
Grid Ref: 223.43 kmE 676.27 kmN RMS: 0.30 secs
Locality: GREENOCK,INVERCLYDE
Velocity model: Lownet Xnear: 60.0 Xfar: 120.0

STAT	CO	DIST	PHAS	WT P	HrMn	SECS	AMPL	PERI	RES
PGB1	HZ	26.3	EP		04:32	37.34			0.01
PGB1	HE	26.3	ES		04:32	41.05			0.04
PGB1	HN	26.3	IAML		04:32	41.20	6	0.11	
PGB1	HE	26.3	IAML		04:32	41.60	5	0.31	
LAWE	HZ	49.8	EP		04:32	41.13			0.22
LAWE	HE	49.8	ES		04:32	47.03			-0.17
LAWE	HE	49.8	IAML		04:32	47.29	4	0.13	
LAWE	HN	49.8	IAML		04:32	47.31	4	0.25	
INVG	HZ	72.4	EP		04:32	44.56			0.14
INVG	HE	72.4	ES		04:32	53.12			-0.16
INVG	HE	72.4	IAML		04:32	55.09	2	0.15	
INVG	HN	72.4	IAML		04:32	55.37	2	0.08	
NEWG	HN	99.7	EP		04:32	49.06			0.42
NEWG	HE	99.7	ES		04:32	59.52			-1.05
NEWG	HE	99.7	IAML		04:33	01.37	2	0.14	
NEWG	HZ	99.7	IAML		04:33	01.39	2	0.14	

September 22 2017 Time: 01:19 48.9 UTC Magnitude: 1.9 ML
Lat: 49.059N Lon: -2.373W Depth: 6.9 km
Grid Ref: 372.75 kmE -93.37 kmN RMS: 0.20 secs
Locality: JERSEY,CHANNEL ISLANDS
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 15KM SW JERSEY

STAT	CO	DIST	PHAS	WT P	HrMn	SECS	AMPL	PERI	RES
JSA	HZ	20.5	EP		01:19	53.18			0.19
JSA	HE	20.5	ES		01:19	55.67			-0.29
JSA	HE	20.5	IAML		01:19	56.17	277	0.18	
JSA	HN	20.5	IAML		01:19	56.23	272	0.24	
JRS	EN	25.3	EP		01:19	53.95			0.15
JRS	EN	25.3	ES		01:19	57.34			-0.03
JRS	EE	25.3	IAML		01:19	57.50	106	0.09	
JRS	EN	25.3	IAML		01:19	57.76	106	0.16	
JDG	EZ	28.2	EP		01:19	54.36			0.07
JDG	EN	28.2	ES		01:19	58.21			0.01
JDG	EN	28.2	IAML		01:19	58.55	94	0.14	
JDG	EE	28.2	IAML		01:19	58.48	105	0.16	
JDC	EZ	28.2	EP		01:19	54.38			0.09
JDC	EN	28.2	IAML		01:19	58.89	858	0.14	
JDC	EE	28.2	IAML		01:19	58.53	567	0.20	
ROSF	BZ	104.0	EP		01:20	06.37			-0.07
ROSF	BE	104.0	ES		01:20	19.25			0.02
ROSF	BE	104.0	IAML		01:20	21.01	44	0.20	
ROSF	BN	104.0	IAML		01:20	21.03	48	0.20	
DYA	HZ	190.0	EP		01:20	18.33			-0.41
DYA	HN	190.0	ES		01:20	40.79			0.28
DYA	HE	190.0	IAML		01:20	43.86	17	0.36	
DYA	HN	190.0	IAML		01:20	44.44	17	0.31	

September 23 2017 Time: 02:04 51.1 UTC Magnitude: 0.8 ML
Lat: 52.699N Lon: -1.426W Depth: 2.8 km
Grid Ref: 438.78 kmE 311.45 kmN RMS: 0.30 secs
Locality: IBSTOCK,LEICESTERSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT P	HrMn	SECS	AMPL	PERI	RES
CWF	HZ	9.1	EP		02:04	53.08			-0.05
CWF	HE	9.1	ES		02:04	54.39			-0.24
CWF	HN	9.1	IAML		02:04	54.54	102	0.10	
CWF	HE	9.1	IAML		02:04	54.56	64	0.07	
LBWR	HZ	80.7	EP		02:05	05.10			0.27
LBWR	HE	80.7	ES		02:05	14.79			-0.07
LBWR	HN	80.7	IAML		02:05	15.97	6	0.22	
LBWR	HE	80.7	IAML		02:05	16.04	8	0.26	
HLM1	HZ	101.0	EP		02:05	07.79			-0.14
HLM1	HE	101.0	ES		02:05	19.82			-0.40
HLM1	HN	101.0	IAML		02:05	23.03	1	0.19	
HLM1	HE	101.0	IAML		02:05	23.40	1	0.20	
FOEL	HZ	122.0	EP		02:05	11.74			0.56
MCH1	HZ	133.0	EP		02:05	12.95			0.11
MCH1	HE	133.0	ES		02:05	28.35			-0.37
MCH1	HN	133.0	IAML		02:05	28.85	2	0.16	
MCH1	HE	133.0	IAML		02:05	29.28	2	0.22	
MONM	HZ	134.0	EP		02:05	13.57			0.52
MONM	HN	134.0	ES		02:05	29.28			0.19
MONM	HE	134.0	IAML		02:05	30.96	2	0.17	
MONM	HN	134.0	IAML		02:05	31.15	3	0.16	
WACR	HE	139.0	EP		02:05	13.95			0.24

September 24 2017 Time: 01:48 20.1 UTC Magnitude: 0.7 ML
Lat: 57.712N Lon: -4.251W Depth: 13.8 km
Grid Ref: 265.91 kmE 871.33 kmN RMS: 0.20 secs
Locality: ALNESS,HIGHLAND
Velocity model: Lownet Xnear: 500.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT P	HrMn	SECS	AMPL	PERI	RES
LINV	HZ	74.1	EP		01:48	32.46			-0.03
LINV	HZ	74.1	ES		01:48	41.44			-0.09
BIGH	HZ	89.3	EP		01:48	34.96			0.13
BIGH	HN	89.3	ES		01:48	45.56			-0.03
BIGH	HN	89.3	IAML		01:48	47.79	2	0.11	
BIGH	HE	89.3	IAML		01:48	47.95	2	0.14	
KPL	HZ	93.7	EP		01:48	35.23			-0.23
KPL	HN	93.7	ES		01:48	46.80			0.13
KPL	HE	93.7	IAML		01:48	48.46	2	0.17	
KPL	HN	93.7	IAML		01:48	48.82	1	0.13	
DRUM	HZ	139.0	EP		01:48	42.01			0.09
DRUM	HE	139.0	ES		01:48	57.67			-0.18
DRUM	HN	139.0	IAML		01:48	59.97	6	0.13	
DRUM	HE	139.0	IAML		01:49	00.26	5	0.19	
INVG	HZ	144.0	EP		01:48	42.99			0.35
INVG	HE	144.0	ES		01:48	58.95			-0.15
INVG	HN	144.0	IAML		01:49	01.05	1	0.14	
INVG	HE	144.0	IAML		01:49	01.12	2	0.46	

September 24 2017 Time: 23:42 20.6 UTC Magnitude: 0.4 ML
Lat: 55.867N Lon: -5.315W Depth: 14.2 km
Grid Ref: 192.60 kmE 668.72 kmN RMS: 0.20 secs
Locality: PORTAVADIE,ARGYLL/BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	44.1	EP		23:42	28.43			0.01
LAWE	HE	44.1	ES		23:42	34.03			-0.09
LAWE	HN	44.1	IAML		23:42	34.96	1	0.33	
LAWE	HE	44.1	IAML		23:42	35.57	1	0.10	
PGB1	HZ	52.5	EP		23:42	29.81			0.10
PGB1	HN	52.5	ES		23:42	36.18			-0.18
PGB1	HN	52.5	IAML		23:42	37.76	2	0.40	
PGB1	HE	52.5	IAML		23:42	38.38	1	0.51	
CLGH	HZ	101.0	EP		23:42	37.43			0.43
CLGH	HN	101.0	ES		23:42	48.52			-0.43
CLGH	HN	101.0	IAML		23:42	52.18	3	0.24	
CLGH	HE	101.0	IAML		23:42	52.41	3	0.34	
NEWG	HE	108.0	ES		23:42	50.72			-0.01

TABLE 2 : PHASE DATA

NEWG	HE	108.0	IAML	23:42	53.52	2	0.14	
NEWG	HN	108.0	IAML	23:42	53.62	2	0.10	
GAL1	HZ	118.0	EP	23:42	39.67			0.26
GAL1	HE	118.0	ES	23:42	53.11			-0.02
GAL1	HE	118.0	IAML	23:42	55.80	1	0.13	
GAL1	HN	118.0	IAML	23:42	56.23	1	0.17	

September 25 2017 Time: 15:56 20.3 UTC Magnitude: 0.8 ML
Lat: 52.700N Lon: -1.432W Depth: 2.5 km
Grid Ref: 438.38 kmE 311.56 kmN RMS: 0.30 secs
Locality: IBSTOCK,LEICESTERSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CWF	HZ	9.4	EP			15:56	22.64			0.08
CWF	HE	9.4	ES			15:56	23.93			-0.25
CWF	HE	9.4	IAML			15:56	24.04	77	0.12	
CWF	HN	9.4	IAML			15:56	24.20	42	0.19	
LBWR	HZ	80.5	EP			15:56	34.52			0.32
LBWR	HE	80.5	ES			15:56	44.33			0.01
LBWR	HE	80.5	IAML			15:56	45.56	8	0.26	
LBWR	HN	80.5	IAML			15:56	45.62	7	0.26	
HLM1	HE	100.0	ES			15:56	49.20			-0.43
HLM1	HN	100.0	IAML			15:56	49.53	1	0.11	
HLM1	HE	100.0	IAML			15:56	49.64	1	0.09	
MCH1	HN	132.0	ES			15:56	58.16			-0.01
MCH1	HN	132.0	IAML			15:56	58.40	2	0.17	
MCH1	HE	132.0	IAML			15:56	58.83	2	0.16	
MONM	HN	134.0	ES			15:56	59.18			0.61
MONM	HN	134.0	IAML			15:57	00.70	4	0.16	
MONM	HE	134.0	IAML			15:57	00.90	3	0.20	

September 25 2017 Time: 19:17 11.9 UTC Magnitude: 0.6 ML
Lat: 52.699N Lon: -1.426W Depth: 2.5 km
Grid Ref: 438.78 kmE 311.45 kmN RMS: 0.30 secs
Locality: IBSTOCK,LEICESTERSHIRE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CWF	HZ	9.2	EP			19:17	13.94			-0.04
CWF	HE	9.2	ES			19:17	15.26			-0.22
CWF	HN	9.2	IAML			19:17	15.37	62	0.10	
CWF	HE	9.2	IAML			19:17	15.41	40	0.06	
LBWR	HZ	80.7	EP			19:17	26.20			0.50
LBWR	HE	80.7	ES			19:17	35.69			-0.06
LBWR	HE	80.7	IAML			19:17	36.88	5	0.22	
LBWR	HN	80.7	IAML			19:17	36.92	4	0.23	
HLM1	HZ	101.0	EP			19:17	28.85			0.06
HLM1	HE	101.0	ES			19:17	40.62			-0.48
HLM1	HE	101.0	IAML			19:17	40.91	1	0.15	
HLM1	HN	101.0	IAML			19:17	44.46	1	0.21	
MCH1	HE	133.0	ES			19:17	49.48			-0.13
MCH1	HE	133.0	IAML			19:17	50.22	1	0.13	
MCH1	HN	133.0	IAML			19:17	50.45	1	0.32	
MONM	HN	134.0	ES			19:17	50.36			0.38
MONM	HE	134.0	IAML			19:17	51.40	2	0.22	
MONM	HN	134.0	IAML			19:17	51.86	2	0.19	

September 26 2017 Time: 01:18 42.1 UTC Magnitude: 0.7 ML
Lat: 52.697N Lon: -1.429W Depth: 2.6 km
Grid Ref: 438.58 kmE 311.23 kmN RMS: 0.20 secs
Locality: IBSTOCK,LEICESTERSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CWF	HZ	9.4	EP			01:18	44.16			-0.08
CWF	HN	9.4	ES			01:18	45.58			-0.19
CWF	HN	9.4	IAML			01:18	45.70	100	0.10	
CWF	HE	9.4	IAML			01:18	45.73	70	0.06	
LBWR	HZ	80.9	EP			01:18	56.29			0.35
LBWR	HE	80.9	ES			01:19	05.98			-0.02
LBWR	HN	80.9	IAML			01:19	07.14	5	0.22	
LBWR	HE	80.9	IAML			01:19	07.20	7	0.22	
HLM1	HZ	100.0	EP			01:18	58.98			0.01
HLM1	HN	100.0	ES			01:19	10.90			-0.34
HLM1	HN	100.0	IAML			01:19	13.21	1	0.17	
HLM1	HE	100.0	IAML			01:19	13.38	1	0.17	
MCH1	HZ	132.0	EP			01:19	04.09			0.22
MCH1	HN	132.0	ES			01:19	19.52			-0.21
MCH1	HN	132.0	IAML			01:19	20.00	1	0.14	
MCH1	HE	132.0	IAML			01:19	20.57	1	0.14	
MONM	HZ	134.0	EP			01:19	04.32			0.23
MONM	HE	134.0	ES			01:19	20.29			0.18
MONM	HE	134.0	IAML			01:19	22.28	2	0.20	
MONM	HN	134.0	IAML			01:19	22.37	3	0.18	
WACR	HZ	139.0	EP			01:19	05.04			0.23

September 26 2017 Time: 04:35 36.4 UTC Magnitude: 0.7 ML
Lat: 55.519N Lon: -3.059W Depth: 3.5 km
Grid Ref: 333.14 kmE 625.54 kmN RMS: 0.20 secs
Locality: ETTRICKBRIDGE,BORDERS
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 5KM NW ETTRICKBRIDGE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
ESK	HZ	24.4	EP			04:35	41.00			-0.04
ESK	HE	24.4	ES			04:35	44.34			-0.09
ESK	HE	24.4	IAML			04:35	44.56	16	0.20	
ESK	HN	24.4	IAML			04:35	44.97	13	0.11	
EDI	HZ	45.8	EP			04:35	44.68			0.03
EDI	HZ	45.8	ES			04:35	50.44			-0.22
NEWG	HZ	86.8	EP			04:35	51.11			0.04
NEWG	HN	86.8	ES			04:36	01.43			-0.35
NEWG	HE	86.8	IAML			04:36	03.38	1	0.09	
NEWG	HN	86.8	IAML			04:36	03.63	2	0.09	
PGB1	HE	95.4	ES			04:36	04.53			0.41
PGB1	HE	95.4	IAML			04:36	05.04	2	0.14	
PGB1	HN	95.4	IAML			04:36	05.29	2	0.26	
EDMD	HE	104.0	ES			04:36	06.17			-0.08
EDMD	HN	104.0	IAML			04:36	06.92	3	0.18	
EDMD	HE	104.0	IAML			04:36	07.08	4	0.13	
KESW	HZ	104.0	EP			04:35	54.09			0.39
INVG	HZ	118.0	EP			04:35	56.21			0.21
INVG	HE	118.0	ES			04:36	10.04			-0.26
GAL1	HZ	128.0	EP			04:35	57.49			0.05
GAL1	HE	128.0	ES			04:36	12.69			-0.11

September 26 2017 Time: 13:40 15.5 UTC Magnitude: 0.8 ML
Lat: 55.523N Lon: -3.058W Depth: 4.2 km
Grid Ref: 333.21 kmE 625.98 kmN RMS: 0.20 secs
Locality: ETTRICKBRIDGE,BORDERS
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 5KM NW ETTRICKBRIDGE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
ESK	HZ	24.8	EP			13:40	20.06			-0.19
ESK	HE	24.8	IAML			13:40	23.50	24	0.10	
ESK	HN	24.8	IAML			13:40	24.01	23	0.08	
EDI	HE	45.3	ES			13:40	29.54			-0.01
NEWG	HZ	87.1	EP			13:40	30.06			-0.05
NEWG	HN	87.1	ES			13:40	40.57			-0.19
NEWG	HE	87.1	IAML			13:40	42.22	2	0.10	
NEWG	HN	87.1	IAML			13:40	42.66	3	0.09	
KESW	HZ	104.0	EP			13:40	33.14			0.37
EDMD	HN	104.0	ES			13:40	45.09			-0.15
EDMD	HN	104.0	IAML			13:40	45.87	5	0.18	
EDMD	HE	104.0	IAML			13:40	46.07	6	0.12	
INVG	HZ	118.0	EP			13:40	35.15			0.22
INVG	HZ	118.0	ES			13:40	48.93			-0.17
GAL1	HZ	128.0	EP			13:40	36.60			0.12
GAL1	HZ	128.0	ES			13:40	52.07			0.28

September 27 2017 Time: 01:37 52.6 UTC Magnitude: 1.2 ML
Lat: 54.917N Lon: -4.022W Depth: 7.5 km
Grid Ref: 270.41 kmE 559.91 kmN RMS: 0.50 secs
Locality: RINGFORD,D & G
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT DALBEATTIE Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
NEWG	HZ	25.9	IP		D	01:37	57.55			0.06
NEWG	HE	25.9	ES			01:38	00.90			-0.16
NEWG	HN	25.9	IAML			01:38	01.04	24	0.12	
NEWG	HE	25.9	IAML			01:38	01.09	26	0.11	
GAL1	HZ	44.6	EP			01:38	00.23			-0.15
GAL1	HE	44.6	ES			01:38	05.59			-0.47
GAL1	HE	44.6	IAML			01:38	05.83	20	0.07	
GAL1	HN	44.6	IAML			01:38	06.18	39	0.16	
ESK	HZ	68.5	EP			01:38	03.76			-0.35
ESK	HE	68.5	ES			01:38	11.82			-0.69
ESK	HN	68.5	IAML			01:38	14.31	14	0.11	
ESK	HE	68.5	IAML			01:38	14.44	13	0.20	
KESW	HZ	69.5	EP			01:38	04.37			0.11
KESW	HN	69.5	ES			01:38	12.53			-0.25
KESW	HN	69.5	IAML			01:38	15.69	16	0.09	
KESW	HE	69.5	IAML			01:38	15.89	15	0.28	
IOMK	HZ	81.1	EP			01:38	06.12			0.06
PGB1	HZ	104.0	IP		C	01:38	10.45			0.88
EDI	HZ	124.0	EP			01:38	13.20			0.54
AR09	HZ	128.0	EP			01:38	13.77			0.44
EDMD	HZ	133.0	EP			01:38	14.72			0.84
INVG	HZ	168.0	EP			01:38	19.96			0.97

September 28 2017 Time: 01:00 40.4 UTC Magnitude: 0.5 ML
Lat: 52.166N Lon: -2.578W Depth: 2.5 km
Grid Ref: 360.47 kmE 252.17 kmN RMS: 0.20 secs
Locality: PENCOMBE,HEREFORDSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH1	HZ	34.4	IP		C	01:00	46.80			0.10
MCH1	HN	34.4	ES			01:00	51.13			-0.19
MCH1	HE	34.4	IAML			01:00	51.26	4	0.14	
MCH1	HN	34.4	IAML			01:00	51.32	4	0.14	
MONM	HZ	39.5	IP		C	01:00	47.65			0.09

TABLE 2 : PHASE DATA

MONM	HE	39.5	ES	01:00	52.79			-0.01
MONM	HE	39.5	IAML	01:00	52.94	12	0.36	
MONM	HN	39.5	IAML	01:00	53.09	7	0.14	
HLM1	HZ	44.3	EP	01:00	48.56			0.13
HLM1	HN	44.3	ES	01:00	54.21			-0.11
HLM1	HN	44.3	IAML	01:00	54.45	3	0.10	
HLM1	HE	44.3	IAML	01:00	54.48	3	0.30	
CWF	HZ	107.0	EP	01:00	57.88			-0.36
CWF	HE	107.0	ES	01:01	11.47			0.19
CWF	HE	107.0	IAML	01:01	13.58	2	0.07	
CWF	HN	107.0	IAML	01:01	15.01	2	0.08	
RSBS	HZ	150.0	EP	01:01	04.86			0.13
RSBS	HE	150.0	ES	01:01	22.86			0.35
WLF1	HN	175.0	ES	01:01	29.01			0.51

September 28 2017 Time: 22:18 48.9 UTC Magnitude: 0.7 ML
Lat: 57.238N Lon: -5.554W Depth: 5.9 km
Grid Ref: 185.56 kmE 821.94 kmN RMS: 0.20 secs
Locality: GLENELG,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	12.7	EP			22:18	51.58			-0.02
KPL	HE	12.7	ES			22:18	53.54			-0.04
KPL	HN	12.7	IAML			22:18	53.69	20	0.26	
KPL	HE	12.7	IAML			22:18	53.69	15	0.34	
LAWE	HZ	109.0	EP			22:19	06.94			0.13
LAWE	HN	109.0	ES			22:19	19.92			0.02
LAWE	HN	109.0	IAML			22:19	21.99	5	0.44	
LAWE	HE	109.0	IAML			22:19	22.50	2	0.14	
LEWI	HZ	128.0	EP			22:19	09.84			0.15
LEWI	HE	128.0	ES			22:19	24.71			-0.18
INVG	HZ	129.0	EP			22:19	09.85			-0.02
INVG	HE	129.0	ES			22:19	24.88			-0.30
INVG	HE	129.0	IAML			22:19	25.13	1	0.37	
INVG	HN	129.0	IAML			22:19	25.41	1	0.15	
BIGH	HZ	170.0	EP			22:19	16.34			0.63
BIGH	HE	170.0	ES			22:19	35.99			0.70

September 28 2017 Time: 23:21 16.3 UTC Magnitude: 0.5 ML
Lat: 52.585N Lon: -2.847W Depth: 11.9 km
Grid Ref: 342.62 kmE 298.95 kmN RMS: 0.20 secs
Locality: CHURCH STRETTON,SALOP
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HLM1	HZ	7.8	EP			23:21	19.07			0.06
HLM1	HN	7.8	ES			23:21	20.88			-0.08
HLM1	HN	7.8	IAML			23:21	20.95	11	0.10	
HLM1	HE	7.8	IAML			23:21	21.18	13	0.18	
FOEL	HZ	41.4	EP			23:21	23.87			0.13
FOEL	HE	41.4	ES			23:21	29.25			0.11
FOEL	HN	41.4	IAML			23:21	29.39	5	0.34	
FOEL	HE	41.4	IAML			23:21	29.74	3	0.33	
LLW	BN	62.6	ES			23:21	34.44			-0.25
LLW	BN	62.6	IAML			23:21	34.65	2	0.13	
LLW	BE	62.6	IAML			23:21	35.09	1	0.60	
MCH1	HZ	66.2	EP			23:21	27.46			-0.07
MCH1	HE	66.2	ES			23:21	35.43			-0.26
MCH1	HE	66.2	IAML			23:21	35.77	3	0.15	
MCH1	HN	66.2	IAML			23:21	35.93	3	0.10	
MONM	HZ	83.1	EP			23:21	30.42			0.31
MONM	HN	83.1	ES			23:21	40.35			0.18
MONM	HE	83.1	IAML			23:21	40.69	5	0.21	
MONM	HN	83.1	IAML			23:21	40.80	5	0.18	
CWF	HZ	106.0	EP			23:21	33.42			-0.12
CWF	HN	106.0	ES			23:21	46.01			-0.08
CWF	HN	106.0	IAML			23:21	47.95	3	0.25	
CWF	HE	106.0	IAML			23:21	48.61	2	0.10	
WLF1	HN	130.0	ES			23:21	52.24			0.07

September 29 2017 Time: 18:42 15.8 UTC Magnitude: 0.9 ML
Lat: 55.522N Lon: -3.035W Depth: 3.5 km
Grid Ref: 334.66 kmE 625.85 kmN RMS: 0.20 secs
Locality: ETTRICKBRIDGE,BORDERS
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 4KM NW ETTRICKBRIDGE

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
ESK	HZ	25.3	EP			18:42	20.51			-0.07
ESK	HE	25.3	ES			18:42	23.84			-0.24
ESK	HE	25.3	IAML			18:42	24.05	29	0.21	
ESK	HN	25.3	IAML			18:42	24.46	24	0.11	
EDI	HZ	45.7	EP			18:42	24.12			0.10
EDI	HN	45.7	ES			18:42	29.98			-0.06
EDI	HE	45.7	IAML			18:42	30.16	6	0.24	
EDI	HN	45.7	IAML			18:42	30.17	6	0.22	
NEWG	HZ	88.2	EP			18:42	30.52			-0.15
NEWG	HN	88.2	IAML			18:42	43.12	3	0.11	
NEWG	HE	88.2	IAML			18:42	43.84	3	0.18	
PGB1	HE	96.7	ES			18:42	44.19			0.35
PGB1	HN	96.7	IAML			18:42	44.77	4	0.22	
PGB1	HE	96.7	IAML			18:42	45.08	5	0.35	
EDMD	HE	103.0	ES			18:42	45.38			-0.04
EDMD	HN	103.0	IAML			18:42	46.40	6	0.18	
EDMD	HE	103.0	IAML			18:42	46.50	9	0.14	
KESW	HZ	104.0	EP			18:42	33.59			0.45
INVG	HE	119.0	ES			18:42	49.39			-0.43
GAL1	HZ	129.0	EP			18:42	37.01			-0.03

October 5 2017 Time: 13:33 05.0 UTC Magnitude: 0.9 ML
Lat: 58.530N Lon: -4.703W Depth: 8.2 km
Grid Ref: 242.64 kmE 963.34 kmN RMS: 0.60 secs
Locality: DURNESS,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
BIGH	HZ	46.4	IP		C	13:33	13.19			0.19
BIGH	HN	46.4	ES			13:33	18.51			-0.36
BIGH	HN	46.4	IAML			13:33	19.14	16	0.12	
BIGH	HE	46.4	IAML			13:33	19.54	11	0.16	
LINV	HZ	51.6	IP		D	13:33	13.91			0.11
LINV	HE	51.6	ES			13:33	19.97			-0.28
LINV	HN	51.6	IAML			13:33	20.26	3	0.07	
LINV	HE	51.6	IAML			13:33	20.31	4	0.21	
LEWI	HZ	134.0	EP			13:33	26.69			0.25
LEWI	HN	134.0	ES			13:33	41.53			-0.61
LEWI	HN	134.0	IAML			13:33	42.97	4	0.27	
LEWI	HE	134.0	IAML			13:33	44.11	4	0.16	
KPL	HZ	144.0	EP			13:33	29.44			1.60

October 5 2017 Time: 17:58 33.3 UTC Magnitude: 1.2 ML
Lat: 54.221N Lon: -2.821W Depth: 7.2 km
Grid Ref: 346.48 kmE 480.92 kmN RMS: 0.30 secs
Locality: ARNSIDE,CUMBRIA
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KESW	HZ	44.9	EP			17:58	40.94			-0.20
KESW	HE	44.9	ES			17:58	46.86			-0.04
KESW	HE	44.9	IAML			17:58	47.40	12	0.19	
KESW	HN	44.9	IAML			17:58	47.70	9	0.16	
EDMD	HZ	87.8	EP			17:58	47.87			0.14
EDMD	HE	87.8	ES			17:58	58.13			-0.17
EDMD	HN	87.8	IAML			17:58	59.87	20	0.10	
EDMD	HE	87.8	IAML			17:59	01.26	21	0.22	
IOMK	HZ	114.0	EP			17:58	52.04			0.22
IOMK	HN	114.0	ES			17:59	05.10			-0.27
IOMK	HN	114.0	IAML			17:59	06.05	12	0.18	
IOMK	HE	114.0	IAML			17:59	06.19	8	0.03	
LBWR	HZ	116.0	EP			17:58	52.46			0.23
LBWR	HE	116.0	ES			17:59	05.87			-0.20
LBWR	HE	116.0	IAML			17:59	08.08	26	0.23	
LBWR	HN	116.0	IAML			17:59	11.13	19	0.28	
ESK	HZ	124.0	EP			17:58	53.69			0.22
ESK	HE	124.0	ES			17:59	08.77			0.55
ESK	HN	124.0	IAML			17:59	11.19	2	0.11	
ESK	HE	124.0	IAML			17:59	12.19	4	0.26	
NEWG	HZ	135.0	EP			17:58	55.79			0.84
NEWG	HE	135.0	IAML			17:59	12.66	3	0.17	
NEWG	HN	135.0	IAML			17:59	12.69	3	0.12	
GAL1	HZ	142.0	EP			17:58	56.85			0.92
GAL1	HE	142.0	ES			17:59	12.18			-0.30
GAL1	HE	142.0	IAML			17:59	14.05	2	0.14	
GAL1	HN	142.0	IAML			17:59	14.37	4	0.23	
WLF1	HZ	147.0	EP			17:58	56.16			-0.46
WLF1	HE	147.0	ES			17:59	13.60			-0.07
WLF1	HN	147.0	IAML			17:59	15.15	4	0.44	
WLF1	HE	147.0	IAML			17:59	16.55	6	0.21	

October 8 2017 Time: 22:55 36.4 UTC Magnitude: 1.4 ML
Lat: 56.389N Lon: -5.456W Depth: 2.5 km
Grid Ref: 186.70 kmE 727.21 kmN RMS: 0.30 secs
Locality: OBAN,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: FELT MULL Intensity: 2

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	14.8	IP		C	22:55	39.27			-0.09
LAWE	HE	14.8	ES			22:55	41.09			-0.46
LAWE	HN	14.8	IAML			22:55	41.38	186	0.11	
LAWE	HE	14.8	IAML			22:55	41.39	151	0.11	
INVG	HZ	87.3	EP			22:55	51.29			0.16
INVG	HN	87.3	ES			22:56	01.66			-0.26
INVG	HN	87.3	IAML			22:56	04.88	12	0.18	
INVG	HE	87.3	IAML			22:56	05.08	12	0.08	
PGB1	HZ	88.3	EP			22:55	51.70			0.43
PGB1	HE	88.3	ES			22:56	02.33			0.17
PGB1	HE	88.3	IAML			22:56	07.33	9	0.38	
PGB1	HN	88.3	IAML			22:56	07.34	8	0.38	
KPL	HZ	106.0	EP			22:55	54.18			0.12
KPL	HE	106.0	ES			22:56	06.78			-0.20
KPL	HN	106.0	IAML			22:56	09.54	8	0.27	
KPL	HE	106.0	IAML			22:56	09.65	18	0.34	

TABLE 2 : PHASE DATA

CLGH	HZ	151.0	EP	22:56	01.33			0.53
CLGH	HN	151.0	IAML	22:56	20.48	7	0.11	
CLGH	HE	151.0	IAML	22:56	22.09	8	0.22	
NEWG	HZ	161.0	EP	22:56	02.24			0.03
GAL1	HZ	176.0	EP	22:56	04.67			0.41
ESK	HZ	185.0	EP	22:56	04.60			-0.80
MCD	HZ	189.0	EP	22:56	04.75			-1.15
LINV	HZ	196.0	EP	22:56	06.22			-0.60

October 9 2017 Time: 17:36 47.5 UTC Magnitude: 1.9 ML
Lat: 50.598N Lon: -2.047W Depth: 6.7 km
Grid Ref: 396.67 kmE 77.65 kmN RMS: 0.30 secs
Locality: WORTH MATRAVERS,DORSET
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
SWN1	HZ	103.0	EP			17:37	04.27			-0.14
SWN1	HE	103.0	ES			17:37	17.02			0.28
SWN1	HE	103.0	IAML			17:37	18.41	72	0.20	
SWN1	HN	103.0	IAML			17:37	19.81	50	0.34	
DYA	HZ	135.0	EP			17:37	09.25			0.13
DYA	HE	135.0	ES			17:37	24.67			-0.21
DYA	HE	135.0	IAML			17:37	26.05	24	0.14	
DYA	HN	135.0	IAML			17:37	26.29	23	0.18	
MONM	HZ	148.0	EP			17:37	10.70			-0.25
MONM	HE	148.0	IAML			17:37	29.14	24	0.23	
MONM	HN	148.0	IAML			17:37	29.42	22	0.27	
MCH1	HZ	169.0	EP			17:37	13.41			-0.52
MCH1	HE	169.0	IAML			17:37	33.62	37	0.28	
MCH1	HN	169.0	IAML			17:37	33.89	23	0.26	
HTL	HZ	177.0	EP			17:37	15.01			0.08
HTL	HE	177.0	IAML			17:37	41.98	13	0.48	
HTL	HN	177.0	IAML			17:37	43.48	16	0.58	
SBD	BZ	187.0	EP			17:37	16.83			0.69
HLM1	HZ	221.0	EP			17:37	20.82			0.33
HLM1	HN	221.0	IAML			17:37	48.41	9	0.36	
HLM1	HE	221.0	IAML			17:37	49.43	12	0.46	
CCA1	HZ	231.0	EP			17:37	20.68			-0.94
CCA1	HN	231.0	IAML			17:37	54.56	5	0.26	
CCA1	HE	231.0	IAML			17:37	55.33	5	0.50	

October 12 2017 Time: 12:32 36.2 UTC Magnitude: 1.0 ML
Lat: 55.420N Lon: -5.943W Depth: 7.9 km
Grid Ref: 150.51 kmE 621.08 kmN RMS: 0.80 secs
Locality: KINTYRE,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CLGH	HZ	39.0	EP			12:32	42.82			-0.36
CLGH	HN	39.0	ES			12:32	47.66			-0.59
LAWE	HZ	99.5	EP			12:32	54.00			1.46
LAWE	HE	99.5	ES			12:33	03.61			-0.83
LAWE	HE	99.5	IAML			12:33	06.40	2	0.24	
LAWE	HN	99.5	IAML			12:33	06.80	2	0.25	
GAL1	HZ	99.8	EP			12:32	53.84			1.25
GAL1	HN	99.8	ES			12:33	04.58			0.06
GAL1	HN	99.8	IAML			12:33	06.90	9	0.25	
GAL1	HE	99.8	IAML			12:33	07.13	5	0.19	
PGB1	HN	102.0	ES			12:33	04.24			-0.81
PGB1	HE	102.0	IAML			12:33	07.16	6	0.17	
PGB1	HN	102.0	IAML			12:33	07.50	6	0.25	
NEWG	HZ	114.0	EP			12:32	54.56			-0.23
NEWG	HN	114.0	ES			12:33	08.25			-0.07
NEWG	HE	114.0	IAML			12:33	10.69	4	0.13	
NEWG	HN	114.0	IAML			12:33	11.20	3	0.14	

October 13 2017 Time: 10:15 43.3 UTC Magnitude: 1.0 ML
Lat: 51.855N Lon: -3.059W Depth: 14.6 km
Grid Ref: 327.07 kmE 217.96 kmN RMS: 0.10 secs
Locality: GOVILON,MONMOUTHSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH1	HZ	16.3	IP		C	10:15	47.08			-0.04
MCH1	HN	16.3	ES			10:15	49.95			0.02
MCH1	HN	16.3	IAML			10:15	50.55	35	0.08	
MCH1	HE	16.3	IAML			10:15	50.58	40	0.11	
HLM1	HZ	74.8	EP			10:15	55.75			-0.09
HLM1	HE	74.8	ES			10:16	05.07			0.05
HLM1	HE	74.8	IAML			10:16	05.55	7	0.21	
HLM1	HN	74.8	IAML			10:16	05.68	4	0.26	
RSBS	HZ	117.0	EP			10:16	02.16			0.28
RSBS	HN	117.0	ES			10:16	15.31			-0.16
RSBS	HE	117.0	IAML			10:16	17.48	7	0.14	
RSBS	HN	117.0	IAML			10:16	17.65	6	0.15	

October 15 2017 Time: 13:24 26.0 UTC Magnitude: 0.7 ML
Lat: 56.801N Lon: -5.860W Depth: 7.7 km
Grid Ref: 164.36 kmE 774.35 kmN RMS: 0.30 secs
Locality: MOIDART,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	61.3	EP			13:24	36.56			0.17
KPL	HE	61.3	ES			13:24	43.61			-0.32
KPL	HE	61.3	IAML			13:24	44.15	4	0.26	
KPL	HN	61.3	IAML			13:24	44.20	2	0.23	
LAWE	HZ	66.6	EP			13:24	37.51			0.28
LAWE	HE	66.6	ES			13:24	44.96			-0.44
LAWE	HN	66.6	IAML			13:24	45.33	9	0.10	
LAWE	HE	66.6	IAML			13:24	45.39	9	0.19	
INVG	HZ	119.0	EP			13:24	45.75			0.36
INVG	HN	119.0	ES			13:24	59.61			0.10
INVG	HN	119.0	IAML			13:24	59.91	1	0.10	
INVG	HE	119.0	IAML			13:25	01.47	1	0.08	
LEWI	HE	161.0	ES			13:25	10.12			0.05

October 18 2017 Time: 04:21 52.5 UTC Magnitude: 0.8 ML
Lat: 53.056N Lon: -4.380W Depth: 12.1 km
Grid Ref: 240.51 kmE 353.65 kmN RMS: 0.30 secs
Locality: LLANDWROG,GWYNEDD
Velocity model: Lleyn Xnear: 80.0 Xfar: 200.0
Comment: 5KM SW LLANDWROG

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
YLL	EZ	16.8	IP		C	04:21	56.06			0.01
YLL	EZ	16.8	ES			04:21	58.67			0.23
YRC	EZ	25.3	EP			04:21	57.09			-0.17
YRC	EZ	25.3	ES			04:22	00.40			-0.06
WLF1	HZ	25.9	IP		D	04:21	56.95			-0.41
WLF1	HN	25.9	ES			04:22	00.04			-0.60
WLF1	HN	25.9	IAML			04:22	00.40	30	0.07	
WLF1	HE	25.9	IAML			04:22	00.42	82	0.09	
WPS	HZ	39.1	EP			04:22	00.03			0.62
WPS	HE	39.1	ES			04:22	04.56			0.48
WPS	HE	39.1	IAML			04:22	04.79	4	0.15	
WPS	HN	39.1	IAML			04:22	04.79	10	0.09	
LLW	BZ	53.3	EP			04:22	01.76			0.08
FOEL	HN	81.4	ES			04:22	14.97			-0.25
FOEL	HN	81.4	IAML			04:22	15.23	2	0.18	
FOEL	HE	81.4	IAML			04:22	16.10	4	0.28	
HLM1	HZ	118.0	EP			04:22	11.42			-0.17
HLM1	HN	118.0	ES			04:22	24.85			0.30
HLM1	HE	118.0	IAML			04:22	25.17	1	0.15	
HLM1	HN	118.0	IAML			04:22	27.04	3	0.18	

October 20 2017 Time: 09:14 28.5 UTC Magnitude: 1.4 ML
Lat: 53.357N Lon: -3.020W Depth: 15.7 km
Grid Ref: 332.12 kmE 384.97 kmN RMS: 0.30 secs
Locality: BIRKENHEAD,MERSEYSIDE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
FOEL	HZ	53.4	EP			09:14	37.88			0.05
FOEL	HN	53.4	ES			09:14	44.47			-0.17
FOEL	HN	53.4	IAML			09:14	45.39	23	0.14	
FOEL	HE	53.4	IAML			09:14	45.86	24	0.25	
LLW	BZ	71.1	EP			09:14	40.66			0.17
LLW	BN	71.1	ES			09:14	48.91			-0.33
LLW	BN	71.1	IAML			09:14	49.70	4	0.21	
LLW	BE	71.1	IAML			09:14	49.81	3	0.25	
YLL	EZ	80.5	EP			09:14	42.21			0.32
WLF1	HZ	92.0	EP			09:14	43.78			0.26
WLF1	HN	92.0	ES			09:14	54.46			-0.02
WLF1	HN	92.0	IAML			09:14	55.08	15	0.11	
WLF1	HE	92.0	IAML			09:14	56.85	13	0.06	
HLM1	HZ	93.8	EP			09:14	43.97			0.13
HLM1	HN	93.8	ES			09:14	54.75			-0.29
HLM1	HE	93.8	IAML			09:14	55.42	16	0.17	
HLM1	HN	93.8	IAML			09:14	57.28	8	0.13	
HPK	HZ	114.0	EP			09:14	46.86			0.17
HPK	HN	114.0	ES			09:14	59.84			-0.13
HPK	HE	114.0	IAML			09:15	01.06	24	0.18	
HPK	HN	114.0	IAML			09:15	02.58	28	0.22	
CWF	HZ	134.0	EP			09:14	50.30			0.78
CWF	HN	134.0	ES			09:15	04.79			-0.08
CWF	HN	134.0	IAML			09:15	06.53	11	0.34	
CWF	HE	134.0	IAML			09:15	07.32	10	0.13	
KESW	HZ	137.0	EP			09:14	49.76			-0.26
KESW	HE	137.0	ES			09:15	04.90			-0.83
KESW	HE	137.0	IAML			09:15	05.92	6	0.31	
KESW	HN	137.0	IAML			09:15	07.99	8	0.18	
IOMK	HZ	143.0	EP			09:14	50.76			-0.09
IOMK	HE	143.0	IAML			09:15	08.07	6	0.25	
IOMK	HN	143.0	IAML			09:15	08.17	6	0.38	

October 22 2017 Time: 01:05 53.7 UTC Magnitude: 1.6 ML
Lat: 52.979N Lon: -1.846W Depth: 7.5 km
Grid Ref: 410.34 kmE 342.45 kmN RMS: 0.30 secs
Locality: ELLASTONE,STAFFORDSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
STNC	HZ	27.2	EP			01:05	58.87			0.08

TABLE 2 : PHASE DATA

STNC	HE	27.2	ES		01:06	02.88			0.36
STNC	HE	27.2	IAML		01:06	03.24	193	0.25	
STNC	HN	27.2	IAML		01:06	03.32	149	0.40	
CWF	HZ	45.0	EP		01:06	01.65			0.10
CWF	HN	45.0	ES		01:06	06.96			-0.33
CWF	HE	45.0	IAML		01:06	07.54	18	0.08	
CWF	HN	45.0	IAML		01:06	07.95	17	0.11	
LBWR	HZ	47.7	IP	C	01:06	02.07			0.08
LBWR	HE	47.7	ES		01:06	07.88			-0.18
LBWR	HE	47.7	IAML		01:06	08.63	174	0.18	
LBWR	HN	47.7	IAML		01:06	09.22	128	0.19	
AS02	HZ	64.7	EP		01:06	04.46			-0.15
AS02	HN	64.7	ES		01:06	12.02			-0.57
AS02	HN	64.7	IAML		01:06	12.99	31	0.19	
AS02	HE	64.7	IAML		01:06	13.16	31	0.14	
HLM1	HZ	86.7	EP		01:06	07.97			-0.08
HLM1	HE	86.7	ES		01:06	18.37			-0.16
HLM1	HN	86.7	IAML		01:06	20.21	12	0.13	
HLM1	HE	86.7	IAML		01:06	21.71	12	0.09	
FOEL	HZ	91.6	EP		01:06	08.75			-0.06
HPK	HZ	110.0	EP		01:06	12.05			0.43
LMK	HZ	115.0	EP		01:06	13.08			0.75
MCH1	HZ	134.0	EP		01:06	14.92			-0.35
STRD	HZ	136.0	EP		01:06	15.89			0.45

October 23 2017 Time: 01:30 18.3 UTC Magnitude: 0.2 ML
Lat: 55.084N Lon: -4.167W Depth: 11.7 km
Grid Ref: 261.69 kmE 578.77 kmN RMS: 0.30 secs
Locality: NEW GALLOWAY,D & G
Velocity model: Lownet Xnear: 50.0 Xfar: 100.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
NEWG	HZ	5.5	EP			01:30	21.10			0.40
NEWG	HN	5.5	ES			01:30	22.22			-0.21
NEWG	HN	5.5	IAML			01:30	22.29	10	0.06	
NEWG	HE	5.5	IAML			01:30	22.31	19	0.09	
GAL1	HZ	42.5	IP		C	01:30	26.02			0.21
GAL1	HE	42.5	ES			01:30	30.99			-0.30
GAL1	HN	42.5	IAML			01:30	31.58	2	0.19	
GAL1	HE	42.5	IAML			01:30	31.58	2	0.16	
ESK	HZ	66.4	EP			01:30	29.63			0.09
ESK	HE	66.4	ES			01:30	37.39			-0.34
ESK	HE	66.4	IAML			01:30	38.77	1	0.09	
ESK	HN	66.4	IAML			01:30	38.78	1	0.17	
PGB1	HE	83.4	ES			01:30	42.28			0.04
PGB1	HN	83.4	IAML			01:30	44.75	1	0.10	
PGB1	HE	83.4	IAML			01:30	44.79	2	0.16	
IOMK	HZ	95.2	EP			01:30	34.76			0.78

October 26 2017 Time: 22:45 34.3 UTC Magnitude: 0.4 ML
Lat: 57.896N Lon: -5.325W Depth: 11.2 km
Grid Ref: 202.96 kmE 894.43 kmN RMS: 0.30 secs
Locality: CARNACH,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LINV	HZ	29.0	IP		D	22:45	39.81			0.14
LINV	HE	29.0	ES			22:45	43.42			-0.20
LINV	HE	29.0	IAML			22:45	43.62	7	0.14	
LINV	HN	29.0	IAML			22:45	43.63	3	0.06	
KPL	HZ	65.0	EP			22:45	45.56			0.35
KPL	HN	65.0	ES			22:45	52.80			-0.40
KPL	HN	65.0	IAML			22:45	53.54	1	0.14	
KPL	HE	65.0	IAML			22:45	57.16	1	0.27	
LEWI	HZ	95.3	EP			22:45	50.21			0.26
LEWI	HN	95.3	ES			22:46	01.21			-0.20
LEWI	HN	95.3	IAML			22:46	02.41	1	0.14	
LEWI	HE	95.3	IAML			22:46	02.80	1	0.19	
BIGH	HZ	107.0	EP			22:45	52.11			0.48
BIGH	HE	107.0	ES			22:46	03.88			-0.42
BIGH	HE	107.0	IAML			22:46	06.48	6	0.11	
BIGH	HN	107.0	IAML			22:46	06.52	4	0.13	

October 29 2017 Time: 23:02 00.9 UTC Magnitude: 0.6 ML
Lat: 56.669N Lon: -4.245W Depth: 3.0 km
Grid Ref: 262.44 kmE 755.26 kmN RMS: 0.10 secs
Locality: RANNOCH,PERTH/KINROSS
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 10KM ESE FINNART

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
INVG	HZ	29.7	EP			23:02	06.62			0.19
INVG	HN	29.7	ES			23:02	10.30			-0.18
INVG	HN	29.7	IAML			23:02	10.49	13	0.09	
INVG	HE	29.7	IAML			23:02	10.92	10	0.06	
LAWE	HZ	84.5	EP			23:02	15.14			-0.02
PGB1	HZ	96.7	EP			23:02	17.15			0.09
KPL	HZ	113.0	EP			23:02	19.53			-0.10

October 29 2017 Time: 23:02 08.7 UTC Magnitude: 1.2 ML
Lat: 56.659N Lon: -4.293W Depth: 3.8 km
Grid Ref: 259.46 kmE 754.25 kmN RMS: 0.20 secs
Locality: RANNOCH,PERTH/KINROSS
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 8KM ESE FINNART

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
INVG	HZ	30.0	EP			23:02	14.37			0.11
INVG	HE	30.0	ES			23:02	17.98			-0.37
INVG	HN	30.0	IAML			23:02	18.17	52	0.06	
INVG	HE	30.0	IAML			23:02	18.62	38	0.11	
LAWE	HZ	81.3	EP			23:02	22.50			0.10
LAWE	HE	81.3	ES			23:02	32.37			-0.05
LAWE	HE	81.3	IAML			23:02	35.06	13	0.08	
LAWE	HN	81.3	IAML			23:02	35.36	15	0.22	
PGB1	HZ	95.0	EP			23:02	24.83			0.30
PGB1	HE	95.0	ES			23:02	36.16			0.04
PGB1	HN	95.0	IAML			23:02	38.07	5	0.17	
PGB1	HE	95.0	IAML			23:02	38.40	4	0.23	
KPL	HZ	112.0	EP			23:02	27.13			-0.02
KPL	HN	112.0	ES			23:02	40.36			-0.28
KPL	HN	112.0	IAML			23:02	41.41	8	0.17	
KPL	HE	112.0	IAML			23:02	41.51	7	0.15	
DRUM	HZ	114.0	EP			23:02	27.80			0.33
DRUM	HE	114.0	ES			23:02	41.11			-0.09
DRUM	HE	114.0	IAML			23:02	42.77	11	0.25	
DRUM	HN	114.0	IAML			23:02	43.07	15	0.20	
ESK	HN	164.0	ES			23:02	53.39			-0.57
ESK	HN	164.0	IAML			23:02	56.10	3	0.32	
ESK	HE	164.0	IAML			23:02	56.33	3	0.14	

October 30 2017 Time: 20:41 47.7 UTC Magnitude: 1.2 ML
Lat: 54.961N Lon: -2.190W Depth: 3.8 km
Grid Ref: 387.84 kmE 562.95 kmN RMS: 0.20 secs
Locality: HEXHAM,NORTHUMBERLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
EDMD	HZ	20.5	IP		D	20:41	51.66			-0.01
EDMD	HE	20.5	ES			20:41	54.38			-0.17
EDMD	HE	20.5	IAML			20:41	54.63	110	0.12	
EDMD	HN	20.5	IAML			20:41	54.66	144	0.11	
KESW	HZ	72.0	EP			20:42	00.00			-0.03
KESW	HN	72.0	ES			20:42	09.01			0.00
KESW	HN	72.0	IAML			20:42	09.41	4	0.22	
KESW	HE	72.0	IAML			20:42	09.61	3	0.11	
ESK	HZ	75.9	EP			20:42	00.85			0.22
ESK	HN	75.9	ES			20:42	09.86			-0.20
ESK	HN	75.9	IAML			20:42	10.25	13	0.16	
ESK	HZ	75.9	IAML			20:42	11.15	16	0.19	
HPK	HZ	117.0	EP			20:42	07.57			0.50
HPK	HE	117.0	ES			20:42	21.16			-0.04
HPK	HE	117.0	IAML			20:42	21.88	19	0.22	
HPK	HN	117.0	IAML			20:42	22.58	14	0.19	
NEWG	HZ	132.0	EP			20:42	09.52			0.29
NEWG	HN	132.0	ES			20:42	24.65			-0.28
NEWG	HN	132.0	IAML			20:42	25.84	5	0.25	
NEWG	HE	132.0	IAML			20:42	26.02	4	0.22	

October 31 2017 Time: 15:56 14.8 UTC Magnitude: 1.1 ML
Lat: 56.711N Lon: -4.254W Depth: 2.7 km
Grid Ref: 262.04 kmE 759.95 kmN RMS: 0.40 secs
Locality: RANNOCH,PERTH/KINROSS
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 10KM ENE FINNART

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
INVG	HZ	34.1	IP		C	15:56	21.26			0.18
INVG	HE	34.1	ES			15:56	25.32			-0.36
INVG	HE	34.1	IAML			15:56	25.45	21	0.10	
INVG	HN	34.1	IAML			15:56	25.60	30	0.11	
LAWE	HZ	86.6	EP			15:56	29.47			0.06
LAWE	HE	86.6	ES			15:56	40.00			-0.08
LAWE	HE	86.6	IAML			15:56	43.16	10	0.20	
LAWE	HN	86.6	IAML			15:56	43.31	11	0.14	
DRUM	HZ	110.0	EP			15:56	33.42			0.33
DRUM	HE	110.0	ES			15:56	46.13			-0.32
DRUM	HN	110.0	IAML			15:56	48.82	12	0.14	
DRUM	HE	110.0	IAML			15:56	49.09	10	0.12	
KPL	HZ	110.0	EP			15:56	33.22			0.20
KPL	HN	110.0	ES			15:56	46.06			-0.26
KPL	HN	110.0	IAML			15:56	47.34	4	0.24	
KPL	HE	110.0	IAML			15:56	47.44	3	0.23	
ESK	HZ	168.0	EP			15:56	42.81			1.12
ESK	HN	168.0	ES			15:57	02.51			1.19
ESK	HN	168.0	IAML			15:57	04.24	2	0.12	
ESK	HE	168.0	IAML			15:57	05.95	3	0.17	
LINV	HZ	170.0	EP			15:56	42.18			0.37
LINV	HE	170.0	ES			15:57	01.34			-0.20
LINV	HN	170.0	IAML			15:57	02.22	1	0.11	
LINV	HE	170.0	IAML			15:57	03.01	2	0.15	
NEWG	HE	177.0	ES			15:57	03.45			0.09
NEWG	HN	177.0	IAML			15:57	05.77	1	0.21	
NEWG	HE	177.0	IAML			15:57	06.34	3	0.41	

TABLE 2 : PHASE DATA

October 31 2017 Time: 20:50 34.0 UTC Magnitude: 0.8 ML
Lat: 52.384N Lon: -3.981W Depth: 7.9 km
Grid Ref: 265.19 kmE 278.11 kmN RMS: 0.20 secs
Locality: ABERYSTWYTH,CEREDIGION
Velocity model: Lownet Xnear: 100.0 Xfar: 150.0
Comment: 7KM EAST ABERYSTWYTH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LLW	BZ	56.0	EP			20:50	43.66			0.12
LLW	BN	56.0	ES			20:50	50.12			-0.40
LLW	BE	56.0	IAML			20:50	51.06	5	0.09	
LLW	BN	56.0	IAML			20:50	51.15	4	0.11	
RSBS	HZ	71.0	EP			20:50	45.78			-0.11
RSBS	HN	71.0	ES			20:50	54.55			-0.02
RSBS	HE	71.0	IAML			20:50	55.27	10	0.07	
RSBS	HN	71.0	IAML			20:50	56.04	7	0.07	
HLM1	HZ	76.2	EP			20:50	47.02			0.28
HLM1	HE	76.2	ES			20:50	55.83			-0.21
HLM1	HE	76.2	IAML			20:50	56.28	5	0.21	
HLM1	HN	76.2	IAML			20:50	56.37	4	0.12	
FOEL	HZ	77.2	EP			20:50	47.11			0.23
FOEL	HN	77.2	ES			20:50	56.43			0.13
FOEL	HE	77.2	IAML			20:50	57.46	6	0.29	
FOEL	HN	77.2	IAML			20:50	57.56	3	0.24	
MCH1	HZ	79.8	IP		D	20:50	47.44			0.20
MCH1	HE	79.8	ES			20:50	56.70			-0.22
MCH1	HE	79.8	IAML			20:50	57.33	4	0.41	
MCH1	HN	79.8	IAML			20:50	59.04	4	0.29	

November 1 2017 Time: 20:59 22.0 UTC Magnitude: 2.6 ML
Lat: 55.883N Lon: -5.429W Depth: 7.5 km
Grid Ref: 185.56 kmE 670.85 kmN RMS: 0.40 secs
Locality: TARBERT,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 250.0
Comment: FELT TARBERT... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	42.0	IP		D	20:59	29.45			0.06
LAWE	HE	42.0	ES			20:59	34.24			-0.54
LAWE	HN	42.0	IAML			20:59	34.96	221	0.12	
LAWE	HE	42.0	IAML			20:59	35.27	454	0.15	
PGB1	HZ	59.7	IP		C	20:59	32.51			0.37
PGB1	HN	59.7	ES			20:59	39.44			-0.10
PGB1	HN	59.7	IAML			20:59	40.15	229	0.31	
PGB1	HE	59.7	IAML			20:59	40.99	163	0.30	
CLGH	HZ	98.9	EP			20:59	38.70			0.47
CLGH	HE	98.9	ES			20:59	49.51			-0.56
CLGH	HE	98.9	IAML			20:59	53.06	310	0.20	
CLGH	HZ	98.9	IAML			20:59	53.37	248	0.26	
INVG	HZ	105.0	EP			20:59	39.31			0.09
INVG	HE	105.0	ES			20:59	51.31			-0.48
INVG	HE	105.0	IAML			20:59	54.45	238	0.23	
INVG	HN	105.0	IAML			20:59	54.64	353	0.33	
NEWG	HZ	114.0	EP			20:59	40.92			0.37
NEWG	HN	114.0	ES			20:59	53.74			-0.35
NEWG	HE	114.0	IAML			20:59	56.28	268	0.23	
NEWG	HN	114.0	IAML			20:59	57.01	248	0.13	
GAL1	HZ	122.0	EP			20:59	41.97			0.20
GAL1	HE	122.0	ES			20:59	55.56			-0.64
GAL1	HE	122.0	IAML			20:59	58.40	225	0.17	
GAL1	HN	122.0	IAML			20:59	58.95	169	0.13	
EDI	HZ	140.0	EP			20:59	45.13			0.72
ESK	HZ	154.0	EP			20:59	46.83			0.48
KPL	HZ	163.0	EP			20:59	48.33			0.73
IOMK	HZ	189.0	EP			20:59	51.44			0.48
KESW	HZ	206.0	EP			20:59	53.77			0.59
DRUM	HZ	215.0	EP			20:59	54.46			0.24
MCD	HZ	231.0	EP			20:59	55.97			-0.34
LINV	HZ	253.0	EP			20:59	59.01			0.11

November 3 2017 Time: 21:03 11.2 UTC Magnitude: 0.8 ML
Lat: 54.137N Lon: -0.410W Depth: 17.6 km
Grid Ref: 503.87 kmE 472.43 kmN RMS: 0.20 secs
Locality: WOLD NEWTON,E YORKSHIRE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
AV06	HZ	5.5	EP			21:03	14.31			-0.07
AV06	HE	5.5	ES			21:03	17.08			0.35
AV06	HE	5.5	IAML			21:03	17.65	15	0.21	
AV06	HN	5.5	IAML			21:03	17.73	14	0.14	
AU08	HZ	16.5	EP			21:03	15.11			-0.21
AU08	HN	16.5	ES			21:03	18.17			-0.19
AU08	HE	16.5	IAML			21:03	18.88	10	0.13	
AU08	HN	16.5	IAML			21:03	18.93	12	0.21	
AU18	HZ	23.1	EP			21:03	16.23			0.11
AU18	HE	23.1	ES			21:03	19.84			0.10
AU18	HN	23.1	IAML			21:03	20.40	17	0.27	
AU18	HE	23.1	IAML			21:03	20.60	15	0.22	
AU20	HZ	30.0	EP			21:03	16.98			-0.08
AU20	HE	30.0	IAML			21:03	21.82	7	0.15	
AU20	HN	30.0	IAML			21:03	22.02	15	0.12	
AU09	HZ	31.4	EP			21:03	17.08			-0.18
AU09	HE	31.4	ES			21:03	21.78			0.08
AU09	HE	31.4	IAML			21:03	22.03	8	0.15	
AU09	HN	31.4	IAML			21:03	22.11	6	0.13	
AU11	HZ	34.8	EP			21:03	17.64			-0.08
AU07	HZ	36.0	EP			21:03	17.74			-0.16
AT10	HZ	56.3	EP			21:03	20.90			-0.07
AT10	HN	56.3	ES			21:03	28.23			0.10
AT10	HN	56.3	IAML			21:03	28.40	15	0.30	
AT10	HE	56.3	IAML			21:03	28.46	11	0.18	
LBWR	HZ	119.0	EP			21:03	30.16			0.16
LBWR	HE	119.0	ES			21:03	43.90			0.15
LBWR	HN	119.0	IAML			21:03	45.23	12	0.24	
LBWR	HE	119.0	IAML			21:03	45.54	8	0.27	

November 5 2017 Time: 05:51 31.1 UTC Magnitude: 1.0 ML
Lat: 52.826N Lon: -2.463W Depth: 7.5 km
Grid Ref: 368.81 kmE 325.52 kmN RMS: 0.40 secs
Locality: HINSTOCK,SHROPSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
STNC	HZ	34.2	IP		C	05:51	37.10			-0.18
STNC	HE	34.2	ES			05:51	41.71			-0.09
STNC	HE	34.2	IAML			05:51	41.97	17	0.15	
STNC	HN	34.2	IAML			05:51	43.26	14	0.17	
HLM1	HZ	44.4	EP			05:51	38.78			-0.13
HLM1	HE	44.4	ES			05:51	44.53			-0.08
HLM1	HN	44.4	IAML			05:51	45.10	6	0.13	
HLM1	HE	44.4	IAML			05:51	45.99	13	0.30	
FOEL	HZ	50.2	EP			05:51	39.86			0.06
FOEL	HN	50.2	ES			05:51	45.84			-0.32
FOEL	HN	50.2	IAML			05:51	46.17	6	0.39	
FOEL	HE	50.2	IAML			05:51	46.80	9	0.26	
CWF	HZ	78.5	EP			05:51	44.27			0.12
CWF	HE	78.5	ES			05:51	53.09			-0.59
CWF	HN	78.5	IAML			05:51	53.50	4	0.11	
CWF	HE	78.5	IAML			05:51	55.52	2	0.04	
LBWR	HZ	80.9	EP			05:51	44.53			-0.02
LBWR	HN	80.9	IAML			05:51	55.92	4	0.18	
LBWR	HE	80.9	IAML			05:51	58.98	7	0.34	
MCH1	HZ	99.2	EP			05:51	47.62			0.26
MCH1	HN	99.2	ES			05:51	59.54			0.32
MCH1	HN	99.2	IAML			05:52	00.59	7	0.14	
MCH1	HE	99.2	IAML			05:52	04.18	7	0.20	
HPK	HZ	138.0	EP			05:51	54.40			1.23
HPK	HN	138.0	ES			05:52	09.97			0.69
HPK	HE	138.0	IAML			05:52	11.31	12	0.16	
HPK	HN	138.0	IAML			05:52	11.62	11	0.18	
WLF1	HZ	140.0	EP			05:51	53.61			0.22
WLF1	HN	140.0	ES			05:52	09.19			-0.47

November 5 2017 Time: 15:40 16.2 UTC Magnitude: 1.4 ML
Lat: 53.466N Lon: -2.501W Depth: 3.3 km
Grid Ref: 366.74 kmE 396.73 kmN RMS: 0.30 secs
Locality: GLAZEBURY,CHESHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LBWR	HZ	52.1	EP			15:40	25.35			-0.15
LBWR	HN	52.1	ES			15:40	32.52			0.25
LBWR	HN	52.1	IAML			15:40	33.56	33	0.21	
LBWR	HE	52.1	IAML			15:40	34.24	48	0.23	
FOEL	HZ	79.4	EP			15:40	29.51			-0.23
FOEL	HE	79.4	ES			15:40	39.53			-0.08
FOEL	HN	79.4	IAML			15:40	41.41	11	0.51	
FOEL	HE	79.4	IAML			15:40	42.09	7	0.24	
HPK	HE	79.7	ES			15:40	39.12			-0.51
HPK	HN	79.7	IAML			15:40	42.42	18	0.33	
HPK	HE	79.7	IAML			15:40	43.12	12	0.16	
HLM1	HZ	109.0	EP			15:40	34.30			0.04
HLM1	HE	109.0	ES			15:40	47.20			-0.22
HLM1	HN	109.0	IAML			15:40	48.07	10	0.18	
HLM1	HE	109.0	IAML			15:40	48.16	10	0.21	
CWF	HZ	114.0	EP			15:40	35.60			0.57
CWF	HE	114.0	IAML			15:40	52.41	9	0.18	
CWF	HN	114.0	IAML			15:40	52.96	6	0.20	
WLF1	HN	128.0	ES			15:40	52.53			0.10
WLF1	HN	128.0	IAML			15:40	53.51	11	0.11	
WLF1	HE	128.0	IAML			15:40	53.81	13	0.29	
KESW	HZ	131.0	EP			15:40	38.17			0.45
KESW	HE	131.0	ES			15:40	53.75			0.33
KESW	HN	131.0	IAML			15:40	55.75	4	0.14	
KESW	HE	131.0	IAML			15:40	56.11	7	0.21	
EDMD	HN	156.0	ES			15:40	59.65			0.17
EDMD	HE	156.0	IAML			15:41	01.16	14	0.27	
EDMD	HZ	156.0	IAML			15:41	01.58	4	0.39	
IOMK	HZ	162.0	EP			15:40	41.61			-0.53
IOMK	HE	162.0	IAML			15:41	01.46	6	0.26	
IOMK	HN	162.0	IAML			15:41	01.89	6	0.22	

TABLE 2 : PHASE DATA

MCH1	HE	167.0	ES		15:41	02.90			0.65
MCH1	HE	167.0	IAML		15:41	04.54	9	0.27	
MCH1	HN	167.0	IAML		15:41	05.14	7	0.22	

November 7 2017 Time: 08:46 35.7 UTC Magnitude: 3.7 ML
Lat: 60.469N Lon: 4.686W Depth: 11.3 km
Grid Ref: 767.17 kmE 1194.74 kmN RMS: 0.30 secs
Locality: NORWEGIAN COAST
Velocity model: North Sea Xnear: 500.0 Xfar: 1000.0
Comment: FELT HORDALAND Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
BER	HZ	37.0	IP		D	08:46	42.04			0.10
BER	HE	37.0	ES			08:46	46.27			-0.23
BER	HE	37.0	IAML			08:46	46.70	4294	0.28	
BER	HN	37.0	IAML			08:46	46.84	5985	0.52	
MOL	HZ	279.0	EP			08:47	14.48			-0.30
MOL	HN	279.0	IAML			08:47	50.62	1169	0.30	
MOL	HE	279.0	IAML			08:47	50.80	949	0.36	
KONO	BZ	288.0	EP			08:47	16.34			0.43
LRW	HZ	326.0	EP			08:47	20.69			0.09
LRW	HE	326.0	IAML			08:48	11.87	70	0.62	
LRW	HN	326.0	IAML			08:48	32.52	56	0.40	
BIGH	HZ	534.0	EP			08:47	46.51			0.10
BIGH	HN	534.0	ES			08:48	37.86			-0.18
BIGH	HN	534.0	IAML			08:48	42.24	46	0.56	
BIGH	HE	534.0	IAML			08:48	48.82	39	0.24	
MCD	HZ	557.0	EP			08:47	49.51			0.18
MCD	HE	557.0	IAML			08:48	47.52	44	0.42	
MCD	HN	557.0	IAML			08:48	47.79	54	0.36	
DRUM	HZ	574.0	EP			08:47	51.74			0.38
DRUM	HN	574.0	ES			08:48	46.46			-0.13
DRUM	HE	574.0	IAML			08:48	50.50	66	0.22	
DRUM	HN	574.0	IAML			08:48	59.50	94	0.54	
INVG	HZ	679.0	EP			08:48	04.71			0.26
ESK	HZ	739.0	EP			08:48	11.85			-0.09
EDMD	HZ	742.0	EP			08:48	11.32			-0.91
EDMD	HN	742.0	ES			08:49	22.26			-0.43
EDMD	HE	742.0	IAML			08:49	25.04	49	0.54	
EDMD	HN	742.0	IAML			08:49	25.25	44	0.48	
AT10	HZ	764.0	EP			08:48	14.96			-0.08
LBWR	HZ	877.0	EP			08:48	28.23			-0.86

November 7 2017 Time: 14:33 56.0 UTC Magnitude: 1.4 ML
Lat: 53.040N Lon: -4.494W Depth: 15.5 km
Grid Ref: 232.81 kmE 352.13 kmN RMS: 0.20 secs
Locality: CAERNARFON BAY
Velocity model: Mid Wales Xnear: 80.0 Xfar: 200.0
Comment: 7KM NW TREFOR

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
YRC	EZ	24.0	IP		C	14:34	00.33			0.01
YLL	EZ	24.4	IP		C	14:34	00.39			0.00
WLF1	HZ	28.5	IP		C	14:34	00.86			-0.13
WLF1	HE	28.5	ES			14:34	04.58			-0.02
WLF1	HE	28.5	IAML			14:34	04.94	114	0.08	
WLF1	HN	28.5	IAML			14:34	05.18	54	0.09	
WPS	HZ	40.1	EP			14:34	02.73			-0.01
WPS	HE	40.1	ES			14:34	07.50			-0.10
WPS	HE	40.1	IAML			14:34	08.78	19	0.24	
WPS	HN	40.1	IAML			14:34	09.05	17	0.08	
LLW	BZ	59.7	EP			14:34	05.70			0.00
LLW	BE	59.7	ES			14:34	12.57			-0.12
LLW	BE	59.7	IAML			14:34	13.19	22	0.25	
LLW	BN	59.7	IAML			14:34	13.25	15	0.18	
FOEL	HZ	88.6	EP			14:34	10.03			-0.04
FOEL	HN	88.6	ES			14:34	20.25			0.03
FOEL	HN	88.6	IAML			14:34	21.16	16	0.24	
FOEL	HE	88.6	IAML			14:34	21.75	28	0.38	
RSBS	HZ	122.0	EP			14:34	15.12			0.01
RSBS	HE	122.0	ES			14:34	28.83			-0.06
RSBS	HN	122.0	IAML			14:34	31.45	8	0.18	
RSBS	HE	122.0	IAML			14:34	32.08	8	0.07	
HLM1	HZ	123.0	EP			14:34	15.59			0.28
HLM1	HN	123.0	ES			14:34	29.46			0.23
HLM1	HN	123.0	IAML			14:34	32.52	5	0.09	
HLM1	HE	123.0	IAML			14:34	33.69	5	0.21	
DSB	BN	128.0	ES			14:34	30.00			-0.32
IOMK	HZ	136.0	EP			14:34	17.53			0.38
IOMK	HE	136.0	ES			14:34	33.11			0.72
IOMK	HE	136.0	IAML			14:34	35.08	27	0.21	
IOMK	HN	136.0	IAML			14:34	35.24	20	0.13	

November 7 2017 Time: 19:23 29.7 UTC Magnitude: 0.9 ML
Lat: 57.529N Lon: -5.464W Depth: 7.5 km
Grid Ref: 192.64 kmE 854.03 kmN RMS: 0.40 secs
Locality: TORRIDON,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	24.0	IP		D	19:23	34.40			0.09
KPL	HN	24.0	ES			19:23	37.32			-0.32
KPL	HE	24.0	IAML			19:23	37.62	17	0.11	
KPL	HN	24.0	IAML			19:23	37.77	10	0.13	
LINV	HZ	70.6	EP			19:23	41.63			0.07
LINV	HE	70.6	ES			19:23	49.65			-0.53
LINV	HN	70.6	IAML			19:23	49.99	2	0.06	
LINV	HE	70.6	IAML			19:23	50.06	4	0.18	
LEWI	HZ	108.0	EP			19:23	47.70			0.31
LEWI	HN	108.0	ES			19:24	00.31			0.04
LEWI	HE	108.0	IAML			19:24	01.45	2	0.12	
LEWI	HN	108.0	IAML			19:24	02.38	3	0.18	
BIGH	HZ	141.0	EP			19:23	53.09			0.79
BIGH	HE	141.0	IAML			19:24	10.32	3	0.08	
BIGH	HN	141.0	IAML			19:24	10.67	5	0.36	
LAWE	HZ	141.0	EP			19:23	52.88			0.56
LAWE	HE	141.0	ES			19:24	08.60			-0.19
LAWE	HE	141.0	IAML			19:24	10.66	4	0.18	
LAWE	HN	141.0	IAML			19:24	10.79	6	0.16	
INVG	HZ	150.0	EP			19:23	53.82			0.24
INVG	HN	150.0	ES			19:24	10.70			-0.28
INVG	HE	150.0	IAML			19:24	12.72	2	0.13	
INVG	HN	150.0	IAML			19:24	12.74	2	0.13	

November 9 2017 Time: 06:46 07.0 UTC Magnitude: 1.1 ML
Lat: 50.706N Lon: -4.254W Depth: 5.6 km
Grid Ref: 240.86 kmE 92.08 kmN RMS: 0.20 secs
Locality: ASHWATER,DEVON
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
SBD	BZ	34.3	IP		C	06:46	13.25			-0.13
SBD	BE	34.3	ES			06:46	18.10			0.09
HTL	HZ	36.0	EP			06:46	13.45			-0.19
HTL	HE	36.0	ES			06:46	18.65			0.20
HTL	HE	36.0	IAML			06:46	18.94	28	0.14	
HTL	HN	36.0	IAML			06:46	20.37	15	0.16	
DYA	HZ	37.8	IP		D	06:46	13.83			-0.15
DYA	HN	37.8	ES			06:46	19.23			0.19
DYA	HE	37.8	IAML			06:46	19.37	14	0.08	
DYA	HN	37.8	IAML			06:46	19.67	41	0.08	

November 14 2017 Time: 14:04 34.1 UTC Magnitude: 1.5 ML
Lat: 55.655N Lon: -3.112W Depth: 5.8 km
Grid Ref: 330.04 kmE 640.72 kmN RMS: 0.30 secs
Locality: PEEBLES,BORDERS
Velocity model: Borders Xnear: 100.0 Xfar: 200.0
Comment: 5KM EAST PEEBLES

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
EDI	HZ	30.2	EP			14:04	39.70			0.02
EDI	HE	30.2	ES			14:04	43.71			0.08
EDI	HN	30.2	IAML			14:04	43.88	45	0.24	
EDI	HE	30.2	IAML			14:04	43.95	61	0.22	
ESK	HZ	38.2	EP			14:04	40.91			-0.09
ESK	HE	38.2	ES			14:04	45.46			-0.43
ESK	HE	38.2	IAML			14:04	46.03	43	0.10	
ESK	HN	38.2	IAML			14:04	46.11	27	0.08	
PGB1	HZ	87.9	EP			14:04	49.28			0.21
PGB1	HE	87.9	ES			14:04	59.65			-0.05
PGB1	HN	87.9	IAML			14:05	02.29	39	0.22	
PGB1	HE	87.9	IAML			14:05	02.30	43	0.24	
NEWG	HZ	92.8	EP			14:04	49.55			-0.31
NEWG	HE	92.8	ES			14:05	01.44			0.40
NEWG	HE	92.8	IAML			14:05	03.89	32	0.34	
NEWG	HN	92.8	IAML			14:05	03.94	32	0.26	
INVG	HZ	104.0	EP			14:04	51.82			0.16
INVG	HE	104.0	ES			14:05	03.73			-0.39
INVG	HN	104.0	IAML			14:05	05.77	7	0.15	
INVG	HE	104.0	IAML			14:05	05.84	7	0.14	
EDMD	HZ	117.0	EP			14:04	53.98			0.16
EDMD	HN	117.0	IAML			14:05	09.30	14	0.19	
EDMD	HE	117.0	IAML			14:05	09.33	18	0.24	
KESW	HZ	119.0	EP			14:04	54.08			-0.02
KESW	HN	119.0	ES			14:05	08.73			0.44
KESW	HN	119.0	IAML			14:05	09.73	8	0.32	
KESW	HE	119.0	IAML			14:05	10.53	12	0.18	
GAL1	HZ	134.0	EP			14:04	56.14			-0.30
GAL1	HN	134.0	ES			14:05	12.10			-0.19
GAL1	HN	134.0	IAML			14:05	13.57	19	0.13	
GAL1	HE	134.0	IAML			14:05	15.55	10	0.15	
DRUM	HZ	145.0	EP			14:04	57.96			0.15
DRUM	HN	145.0	ES			14:05	14.54			-0.10
DRUM	HN	145.0	IAML			14:05	16.26	15	0.23	
DRUM	HE	145.0	IAML			14:05	16.99	15	0.11	
LAWE	HZ	158.0	EP			14:04	59.91			0.53
LAWE	HE	158.0	ES			14:05	17.81			0.48
LAWE	HN	158.0	IAML			14:05	20.37	9	0.16	
LAWE	HE	158.0	IAML			14:05	21.20	10	0.32	

November 19 2017 Time: 00:48 07.2 UTC Magnitude: 0.6 ML
Lat: 52.934N Lon: -1.817W Depth: 6.5 km
Grid Ref: 412.30 kmE 337.45 kmN RMS: 0.10 secs

TABLE 2 : PHASE DATA

Locality: WALDLEY,DERBYSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
STNC	HZ	31.4	EP			00:48	13.04			-0.03
STNC	HE	31.4	ES			00:48	17.43			0.10
STNC	HN	31.4	IAML			00:48	20.42	12	0.10	
STNC	HE	31.4	IAML			00:48	20.44	9	0.12	
CWF	HZ	40.6	EP			00:48	14.55			0.06
CWF	HE	40.6	ES			00:48	19.78			0.00
CWF	HN	40.6	IAML			00:48	20.52	4	0.10	
CWF	HE	40.6	IAML			00:48	20.76	4	0.18	
LBWR	HZ	52.3	EP			00:48	16.38			0.05
LBWR	HE	52.3	ES			00:48	22.89			-0.09
LBWR	HE	52.3	IAML			00:48	23.34	8	0.18	
LBWR	HN	52.3	IAML			00:48	23.44	8	0.20	
HLM1	HZ	85.5	EP			00:48	21.41			-0.08
HLM1	HE	85.5	ES			00:48	31.88			-0.01
HLM1	HE	85.5	IAML			00:48	32.78	3	0.34	
HLM1	HN	85.5	IAML			00:48	33.14	2	0.15	

November 21 2017 Time: 05:54 07.2 UTC Magnitude: 0.8 ML
Lat: 56.009N Lon: -4.217W Depth: 7.5 km
Grid Ref: 261.79 kmE 681.77 kmN RMS: 0.20 secs
Locality: LENNOXTOWN,E DUNBARTON
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
PGB1	HZ	27.6	IP		C	05:54	12.32			-0.09
PGB1	HN	27.6	ES			05:54	16.00			-0.18
PGB1	HE	27.6	IAML			05:54	16.14	10	0.13	
PGB1	HN	27.6	IAML			05:54	16.16	15	0.20	
INVG	HZ	47.7	EP			05:54	15.51			-0.03
INVG	HE	47.7	ES			05:54	21.37			-0.23
INVG	HE	47.7	IAML			05:54	21.60	6	0.40	
INVG	HN	47.7	IAML			05:54	22.60	4	0.30	
EDI	HN	65.0	ES			05:54	26.23			0.06
EDI	HE	65.0	ES			05:54	26.39			
EDI	HE	65.0	IAML			05:54	29.38	5	0.27	
EDI	HN	65.0	IAML			05:54	31.00	4	0.14	
LAWE	HZ	78.6	EP			05:54	20.62			0.32
LAWE	HN	78.6	ES			05:54	29.84			0.01
LAWE	HE	78.6	IAML			05:54	33.82	7	0.11	
LAWE	HN	78.6	IAML			05:54	34.63	6	0.24	
NEWG	HN	99.3	ES			05:54	35.30			-0.09
NEWG	HE	99.3	IAML			05:54	38.14	4	0.10	
NEWG	HN	99.3	IAML			05:54	38.18	4	0.24	
ESK	HZ	100.0	EP			05:54	23.88			0.24
ESK	HE	100.0	IAML			05:54	38.10	4	0.18	
ESK	HN	100.0	IAML			05:54	38.48	4	0.28	
GAL1	HN	131.0	ES			05:54	43.67			-0.06
GAL1	HN	131.0	IAML			05:54	45.22	2	0.28	
GAL1	HE	131.0	IAML			05:54	47.46	3	0.26	
DRUM	HE	147.0	ES			05:54	47.54			-0.06
KPL	HE	172.0	ES			05:54	53.98			0.29

November 25 2017 Time: 08:49 31.6 UTC Magnitude: 0.7 ML
Lat: 54.131N Lon: -3.377W Depth: 5.3 km
Grid Ref: 310.03 kmE 471.47 kmN RMS: 0.20 secs
Locality: WALNEY,CUMBRIA
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KESW	HZ	53.9	EP			08:49	40.83			-0.19
KESW	HN	53.9	IAML			08:49	49.48	3	0.33	
KESW	HE	53.9	IAML			08:49	49.71	6	0.49	
IOMK	HZ	79.0	EP			08:49	45.04			0.16
IOMK	HN	79.0	ES			08:49	54.39			-0.18
IOMK	HN	79.0	IAML			08:49	56.09	4	0.12	
IOMK	HE	79.0	IAML			08:49	56.26	5	0.15	
GAL1	HZ	119.0	EP			08:49	51.01			-0.08
GAL1	HN	119.0	ES			08:50	05.40			0.09
NEWG	HZ	123.0	EP			08:49	51.61			-0.07
NEWG	HE	123.0	ES			08:50	06.59			0.25
ESK	HZ	132.0	EP			08:49	53.49			0.36
ESK	HN	132.0	ES			08:50	08.65			-0.19
ESK	HE	132.0	IAML			08:50	10.43	3	0.28	
ESK	HN	132.0	IAML			08:50	11.11	2	0.31	
LBWR	HE	136.0	ES			08:50	09.79			0.07

November 27 2017 Time: 07:53 31.0 UTC Magnitude: 1.0 ML
Lat: 53.828N Lon: -2.133W Depth: 12.5 km
Grid Ref: 391.25 kmE 436.89 kmN RMS: 0.10 secs
Locality: TRAWDEN,LANCASHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
HPK	HZ	36.5	EP			07:53	37.61			0.04
HPK	HE	36.5	ES			07:53	42.50			0.10
HPK	HN	36.5	IAML			07:53	42.74	12	0.18	
HPK	HE	36.5	IAML			07:53	43.47	16	0.18	
LBWR	HZ	54.6	EP			07:53	40.42			0.05
LBWR	HE	54.6	ES			07:53	47.07			-0.17
LBWR	HE	54.6	IAML			07:53	48.02	10	0.18	
LBWR	HN	54.6	IAML			07:53	49.29	7	0.27	
KESW	HZ	106.0	EP			07:53	48.06			-0.10
KESW	HE	106.0	ES			07:54	00.74			0.01
EDMD	HN	112.0	ES			07:54	02.15			-0.07
EDMD	HE	112.0	IAML			07:54	02.75	8	0.15	
EDMD	HN	112.0	IAML			07:54	03.16	8	0.15	
FOEL	HN	126.0	ES			07:54	06.05			0.20
HLM1	HE	154.0	ES			07:54	12.75			0.04
HLM1	HE	154.0	IAML			07:54	13.21	4	0.22	
HLM1	HN	154.0	IAML			07:54	13.92	2	0.16	

November 28 2017 Time: 00:31 10.3 UTC Magnitude: 1.1 ML
Lat: 55.176N Lon: -3.556W Depth: 2.5 km
Grid Ref: 300.91 kmE 587.97 kmN RMS: 0.40 secs
Locality: PARKGATE,D & G
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
ESK	HZ	27.2	IP		C	00:31	15.16			-0.23
ESK	HN	27.2	ES			00:31	18.37			-0.77
ESK	HN	27.2	IAML			00:31	18.54	42	0.08	
ESK	HE	27.2	IAML			00:31	18.62	55	0.08	
NEWG	HZ	43.4	IP		C	00:31	18.23			0.12
NEWG	HN	43.4	ES			00:31	23.34			-0.51
NEWG	HE	43.4	IAML			00:31	23.73	20	0.09	
NEWG	HN	43.4	IAML			00:31	24.04	18	0.15	
KESW	HZ	71.5	EP			00:31	22.57			-0.02
KESW	HN	71.5	ES			00:31	31.41			-0.19
KESW	HN	71.5	IAML			00:31	34.08	7	0.14	
KESW	HE	71.5	IAML			00:31	34.42	7	0.17	
GAL1	HZ	81.5	EP			00:31	24.02			-0.09
GAL1	HN	81.5	ES			00:31	34.04			-0.18
GAL1	HE	81.5	IAML			00:31	36.86	7	0.06	
GAL1	HN	81.5	IAML			00:31	36.90	13	0.11	
EDI	HZ	86.4	IP		C	00:31	25.33			0.47
PGB1	HZ	91.8	EP			00:31	26.29			0.57
AQ12	HZ	97.2	EP			00:31	26.71			0.12
EDMD	HZ	109.0	IP		D	00:31	28.62			0.28
AR09	HZ	128.0	EP			00:31	31.91			0.54
INVG	HZ	143.0	EP			00:31	33.52			0.03
AS07	HZ	146.0	EP			00:31	34.72			0.67

December 7 2017 Time: 09:48 34.6 UTC Magnitude: 1.3 ML
Lat: 56.531N Lon: -5.426W Depth: 5.9 km
Grid Ref: 189.34 kmE 742.91 kmN RMS: 0.40 secs
Locality: BENDERLODH,ARGYLL/BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 4KM NNW BENDERLOCH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	30.2	EP			09:48	40.15			-0.05
LAWE	HE	30.2	ES			09:48	43.92			-0.38
LAWE	HE	30.2	IAML			09:48	44.00	42	0.18	
LAWE	HN	30.2	IAML			09:48	44.04	30	0.12	
INVG	HZ	86.0	EP			09:48	49.46			0.34
INVG	HN	86.0	ES			09:48	59.31			-0.42
INVG	HN	86.0	IAML			09:49	03.02	30	0.24	
INVG	HE	86.0	IAML			09:49	03.26	19	0.10	
KPL	HZ	91.0	EP			09:48	49.88			0.03
KPL	HE	91.0	ES			09:49	00.82			-0.18
KPL	HE	91.0	IAML			09:49	04.39	10	0.20	
KPL	HN	91.0	IAML			09:49	04.71	8	0.16	
PGB1	HZ	99.2	EP			09:48	51.82			0.66
PGB1	HE	99.2	IAML			09:49	06.72	8	0.23	
PGB1	HN	99.2	IAML			09:49	06.92	14	0.22	

December 10 2017 Time: 01:00 45.8 UTC Magnitude: 0.5 ML
Lat: 56.463N Lon: -6.249W Depth: 6.6 km
Grid Ref: 138.29 kmE 738.18 kmN RMS: 0.20 secs
Locality: MULL,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: OFFSHORE LOCATION

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	57.2	EP			01:00	55.90			0.04
LAWE	HN	57.2	ES			01:01	02.96			-0.25
LAWE	HN	57.2	IAML			01:01	03.12	2	0.15	
LAWE	HE	57.2	IAML			01:01	03.13	1	0.13	
KPL	HZ	104.0	EP			01:01	03.02			-0.10
KPL	HE	104.0	ES			01:01	15.73			-0.04
KPL	HN	104.0	IAML			01:01	17.77	1	0.21	
KPL	HE	104.0	IAML			01:01	17.88	2	0.16	
INVG	HZ	136.0	EP			01:01	08.54			0.46
INVG	HE	136.0	ES			01:01	24.70			0.36
INVG	HN	136.0	IAML			01:01	25.98	2	0.18	
INVG	HE	136.0	IAML			01:01	26.45	1	0.13	

December 12 2017 Time: 02:51 42.6 UTC Magnitude: 1.4 ML
Lat: 51.782N Lon: -2.950W Depth: 13.8 km
Grid Ref: 334.47 kmE 209.74 kmN RMS: 0.30 secs

TABLE 2 : PHASE DATA

Locality: LLANOVER,MONMOUTHSHIRE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH1	HZ	24.1	EP			02:51	47.36			-0.08
MCH1	HN	24.1	ES			02:51	51.30			0.32
MCH1	HN	24.1	IAML			02:51	51.66	100	0.16	
MCH1	HE	24.1	IAML			02:51	51.68	82	0.14	
OLDB	HZ	30.8	EP			02:51	48.08			-0.28
OLDB	HN	30.8	ES			02:51	52.64			0.07
OLDB	HN	30.8	IAML			02:51	53.41	107	0.36	
OLDB	HE	30.8	IAML			02:51	55.61	49	0.38	
STRD	HZ	54.4	EP			02:51	52.01			0.04
STRD	HN	54.4	IAML			02:51	59.88	16	0.18	
STRD	HE	54.4	IAML			02:51	59.91	16	0.09	
HLM1	HZ	82.0	EP			02:51	55.83			-0.45
HLM1	HN	82.0	ES			02:52	06.13			-0.14
HLM1	HE	82.0	IAML			02:52	06.67	16	0.12	
HLM1	HN	82.0	IAML			02:52	06.82	12	0.22	
SWN1	HZ	85.0	EP			02:51	57.07			0.38
SWN1	HE	85.0	IAML			02:52	08.45	11	0.36	
SWN1	HN	85.0	IAML			02:52	09.19	18	0.39	
FOEL	HZ	124.0	EP			02:52	02.53			0.12
FOEL	HN	124.0	ES			02:52	17.26			0.37
FOEL	HE	124.0	IAML			02:52	17.94	8	0.24	
FOEL	HN	124.0	IAML			02:52	18.67	9	0.20	
CWF	HZ	155.0	EP			02:52	06.05			-0.63
CWF	HE	155.0	ES			02:52	24.24			-0.03
CWF	HN	155.0	IAML			02:52	25.79	4	0.10	
CWF	HE	155.0	IAML			02:52	25.84	4	0.13	

December 12 2017 Time: 10:06 10.0 UTC Magnitude: 1.4 ML
Lat: 54.180N Lon: -2.215W Depth: 4.0 km
Grid Ref: 385.97 kmE 476.06 kmN RMS: 0.30 secs
Locality: LITTON,NORTH YORKSHIRE
Velocity model: Borders Xnear: 50.0 Xfar: 100.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
AR09	HZ	15.6	EP			10:06	13.31			0.04
AR09	HZ	15.6	ES			10:06	15.34			-0.23
AS07	HZ	19.8	IP		C	10:06	13.61			-0.33
AR05	HZ	24.7	EP			10:06	14.79			0.07
AR05	HN	24.7	ES			10:06	18.18			0.13
AQ12	HZ	45.1	EP			10:06	18.07			0.01
AQ12	HN	45.1	IAML			10:06	23.51	10	0.24	
AQ12	HE	45.1	IAML			10:06	25.13	9	0.25	
HPK	HZ	45.9	EP			10:06	18.18			0.02
HPK	HN	45.9	ES			10:06	23.73			-0.21
HPK	HE	45.9	IAML			10:06	24.05	34	0.20	
HPK	HN	45.9	IAML			10:06	24.65	28	0.20	
AS10	HN	48.3	ES			10:06	24.71			0.13
AS10	HE	48.3	IAML			10:06	24.90	53	0.24	
AS10	HN	48.3	IAML			10:06	24.98	24	0.22	
AT08	HZ	59.8	EP			10:06	20.43			0.05
AT08	HN	59.8	ES			10:06	27.64			-0.09
AT08	HN	59.8	IAML			10:06	27.91	55	0.16	
AT08	HE	59.8	IAML			10:06	28.21	68	0.16	
KESW	HZ	73.5	EP			10:06	23.05			0.39
KESW	HE	73.5	ES			10:06	31.85			0.22
KESW	HE	73.5	IAML			10:06	36.07	6	0.24	
KESW	HN	73.5	IAML			10:06	36.16	13	0.28	
EDMD	HZ	74.3	EP			10:06	23.18			0.45
EDMD	HE	74.3	ES			10:06	31.52			-0.23
EDMD	HE	74.3	IAML			10:06	31.66	20	0.14	
EDMD	HN	74.3	IAML			10:06	31.74	20	0.24	
AU11	HZ	83.7	EP			10:06	24.95			0.68
AU09	HZ	86.6	EP			10:06	25.47			0.73
LBWR	HZ	92.5	EP			10:06	26.09			0.33
LBWR	HN	92.5	ES			10:06	37.46			0.53
LBWR	HE	92.5	IAML			10:06	40.30	18	0.20	
LBWR	HN	92.5	IAML			10:06	40.38	18	0.24	
AU20	HZ	93.9	EP			10:06	26.53			0.58
AU20	HN	93.9	ES			10:06	37.45			0.18
AU20	HN	93.9	IAML			10:06	39.92	22	0.18	
AU20	HE	93.9	IAML			10:06	40.22	19	0.18	
GDLE	HZ	95.0	EP			10:06	26.70			0.56
AU18	HZ	98.5	EP			10:06	27.29			0.61
AU18	HN	98.5	ES			10:06	38.94			0.43
AU18	HN	98.5	IAML			10:06	39.51	27	0.32	
AU18	HE	98.5	IAML			10:06	42.46	21	0.25	

December 13 2017 Time: 02:01 29.7 UTC Magnitude: 0.9 ML
Lat: 55.778N Lon: -6.422W Depth: 6.0 km
Grid Ref: 122.76 kmE 662.70 kmN RMS: 0.10 secs
Locality: ISLAY,ARGYLL & BUTE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CLGH	HE	79.9	ES			02:01	52.81			-0.07
CLGH	HN	79.9	IAML			02:01	54.66	4	0.11	
CLGH	HE	79.9	IAML			02:01	54.88	5	0.16	
LAWE	HZ	83.3	EP			02:01	43.37			-0.26
LAWE	HE	83.3	ES			02:01	53.77			0.00
LAWE	HE	83.3	IAML			02:01	56.94	8	0.24	
LAWE	HN	83.3	IAML			02:01	57.17	5	0.17	
PGB1	HE	122.0	ES			02:02	04.20			0.14
PGB1	HN	122.0	IAML			02:02	05.37	4	0.44	
PGB1	HE	122.0	IAML			02:02	06.37	4	0.25	
NEWG	HZ	157.0	EP			02:01	54.90			0.23
NEWG	HN	157.0	ES			02:02	12.77			-0.11
INVG	HE	165.0	ES			02:02	14.78			-0.05
INVG	HN	165.0	IAML			02:02	19.34	1	0.29	
INVG	HE	165.0	IAML			02:02	20.64	1	0.25	
KPL	HZ	180.0	EP			02:01	57.86			0.12

December 13 2017 Time: 02:01 49.0 UTC Magnitude: 0.8 ML
Lat: 55.771N Lon: -6.409W Depth: 6.4 km
Grid Ref: 123.52 kmE 661.87 kmN RMS: 0.20 secs
Locality: ISLAY,ARGYLL & BUTE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CLGH	HE	78.9	ES			02:02	11.87			0.00
CLGH	HE	78.9	IAML			02:02	14.18	4	0.13	
CLGH	HN	78.9	IAML			02:02	16.15	5	0.25	
LAWE	HZ	83.3	EP			02:02	03.26			0.37
LAWE	HE	83.3	ES			02:02	12.97			-0.05
LAWE	HN	83.3	IAML			02:02	16.22	4	0.20	
LAWE	HE	83.3	IAML			02:02	16.24	7	0.22	
PGB1	HE	121.0	ES			02:02	23.02			-0.10
INVG	HN	164.0	IAML			02:02	18.62	1	0.27	
INVG	HZ	164.0	IAML			02:02	19.49	2	0.25	
KPL	HZ	181.0	EP			02:02	16.86			-0.23

December 13 2017 Time: 02:16 12.5 UTC Magnitude: 1.1 ML
Lat: 55.781N Lon: -6.418W Depth: 7.9 km
Grid Ref: 123.03 kmE 663.02 kmN RMS: 0.40 secs
Locality: ISLAY,ARGYLL & BUTE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CLGH	HN	80.1	ES			02:16	34.81			-0.76
CLGH	HN	80.1	IAML			02:16	37.09	6	0.18	
CLGH	HE	80.1	IAML			02:16	37.34	7	0.17	
LAWE	HZ	83.0	EP			02:16	25.95			-0.32
LAWE	HE	83.0	ES			02:16	36.22			-0.07
LAWE	HE	83.0	IAML			02:16	39.39	13	0.24	
LAWE	HN	83.0	IAML			02:16	40.18	8	0.20	
PGB1	HZ	121.0	EP			02:16	32.74			0.50
PGB1	HN	121.0	ES			02:16	46.85			0.23
PGB1	HN	121.0	IAML			02:16	47.59	8	0.46	
PGB1	HE	121.0	IAML			02:16	48.72	8	0.42	
GAL1	HZ	149.0	EP			02:16	36.63			0.50
GAL1	HE	149.0	ES			02:16	53.43			0.09
GAL1	HN	149.0	IAML			02:16	55.01	5	0.56	
GAL1	HE	149.0	IAML			02:16	56.34	3	0.21	
NEWG	HZ	157.0	EP			02:16	37.80			0.49
NEWG	HN	157.0	ES			02:16	55.33			-0.06
NEWG	HN	157.0	IAML			02:16	56.09	3	0.40	
NEWG	HE	157.0	IAML			02:16	59.19	2	0.23	
INVG	HZ	164.0	EP			02:16	38.44			0.05
INVG	HE	164.0	ES			02:16	56.52			-0.75
INVG	HN	164.0	IAML			02:17	01.78	2	0.27	
INVG	HE	164.0	IAML			02:17	02.26	2	0.11	
KPL	HZ	180.0	EP			02:16	40.39			0.09

December 15 2017 Time: 04:28 12.1 UTC Magnitude: 1.0 ML
Lat: 57.507N Lon: -5.083W Depth: 7.4 km
Grid Ref: 215.32 kmE 850.48 kmN RMS: 0.30 secs
Locality: ACHNASHEEN,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	39.0	EP			04:28	19.09			0.09
KPL	HN	39.0	ES			04:28	23.63			-0.41
KPL	HE	39.0	IAML			04:28	23.70	5	0.18	
KPL	HN	39.0	IAML			04:28	24.11	8	0.10	
MCD	HZ	110.0	EP			04:28	30.48			0.44
MCD	HE	110.0	ES			04:28	43.05			-0.08
MCD	HE	110.0	IAML			04:28	44.63	10	0.32	
MCD	HN	110.0	IAML			04:28	45.21	8	0.31	
INVG	HZ	136.0	EP			04:28	33.85			-0.06
INVG	HE	136.0	ES			04:28	49.54			-0.29
INVG	HE	136.0	IAML			04:28	50.67	1	0.22	
INVG	HN	136.0	IAML			04:28	53.14	2	0.09	
LAWE	HZ	140.0	EP			04:28	34.70			0.19
LAWE	HN	140.0	ES			04:28	51.17			0.31
LAWE	HE	140.0	IAML			04:28	52.72	4	0.15	
LAWE	HN	140.0	IAML			04:28	53.06	4	0.10	

December 18 2017 Time: 02:59 19.1 UTC Magnitude: 0.9 ML
Lat: 56.349N Lon: -6.074W Depth: 7.5 km
Grid Ref: 148.31 kmE 724.85 kmN RMS: 0.40 secs
Locality: MULL,ARGYLL & BUTE

TABLE 2 : PHASE DATA

Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	43.0	EP			02:59	26.40			-0.25
LAWE	HE	43.0	IAML			02:59	26.54	11	0.20	
LAWE	HN	43.0	ES			02:59	31.57			-0.58
LAWE	HN	43.0	IAML			02:59	31.74	12	0.20	
KPL	HZ	113.0	EP			02:59	37.38			-0.15
KPL	HE	113.0	ES			02:59	51.04			0.08
KPL	HN	113.0	IAML			02:59	53.40	2	0.12	
KPL	HE	113.0	IAML			02:59	54.33	3	0.17	
PGB1	HZ	116.0	EP			02:59	38.65			0.70
PGB1	HE	116.0	ES			02:59	52.13			0.44
PGB1	HN	116.0	IAML			02:59	54.19	2	0.43	
PGB1	HE	116.0	IAML			02:59	55.01	2	0.22	
INVG	HZ	126.0	EP			02:59	39.65			0.16
INVG	HN	126.0	ES			02:59	54.62			0.27
INVG	HE	126.0	IAML			02:59	56.31	2	0.08	
INVG	HN	126.0	IAML			02:59	56.66	2	0.20	
CLGH	HZ	141.0	EP			02:59	41.46			-0.20
CLGH	HN	141.0	ES			02:59	57.82			-0.29
CLGH	HE	141.0	IAML			02:59	59.48	6	0.36	
CLGH	HN	141.0	IAML			03:00	01.20	4	0.15	
GAL1	HZ	186.0	EP			02:59	47.76			0.04

December 19 2017 Time: 19:21 52.6 UTC Magnitude: 1.0 ML
Lat: 52.418N Lon: 0.218W Depth: 4.5 km
Grid Ref: 550.82 kmE 282.36 kmN RMS: 0.40 secs
Locality: ELY,CAMBRIDGESHIRE
Velocity model: Lownet Xnear: 150.0 Xfar: 300.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WACR	HZ	44.0	EP			19:22	00.53			-0.01
WACR	HE	44.0	ES			19:22	06.37			0.04
WACR	HE	44.0	IAML			19:22	08.40	6	0.19	
WACR	HN	44.0	IAML			19:22	08.44	8	0.31	
ELMS	HZ	63.9	EP			19:22	03.60			-0.11
ELMS	HE	63.9	ES			19:22	11.75			-0.06
ELMS	HE	63.9	IAML			19:22	12.74	14	0.60	
ELMS	HN	63.9	IAML			19:22	15.46	12	0.68	
CWF	HZ	109.0	EP			19:22	10.70			-0.09
CWF	HE	109.0	ES			19:22	23.52			-0.55
LBWR	HZ	170.0	EP			19:22	20.27			0.44
HLM1	HE	211.0	ES			19:22	49.30			0.74
HLM1	HE	211.0	IAML			19:22	50.59	3	0.34	
HLM1	HN	211.0	IAML			19:22	51.30	2	0.25	
MCH1	HN	225.0	ES			19:22	52.22			0.74

December 20 2017 Time: 08:15 46.3 UTC Magnitude: 1.5 ML
Lat: 56.640N Lon: -5.906W Depth: 7.7 km
Grid Ref: 160.53 kmE 756.61 kmN RMS: 0.30 secs
Locality: MORVERN,HIGHLAND
Velocity model: Lownet Xnear: 150.0 Xfar: 300.0
Comment: FELT LISMORE... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	52.6	IP		C	08:15	55.53			0.23
LAWE	HN	52.6	ES			08:16	01.89			0.00
LAWE	HN	52.6	IAML			08:16	02.64	38	0.13	
LAWE	HE	52.6	IAML			08:16	02.79	35	0.10	
KPL	HZ	79.3	EP			08:15	59.25			-0.17
KPL	HE	79.3	ES			08:16	08.91			-0.10
KPL	HE	79.3	IAML			08:16	11.08	34	0.12	
KPL	HN	79.3	IAML			08:16	11.16	27	0.32	
INVG	HZ	117.0	EP			08:16	05.44			0.13
INVG	HN	117.0	ES			08:16	19.07			-0.13
INVG	HN	117.0	IAML			08:16	20.11	9	0.11	
INVG	HE	117.0	IAML			08:16	20.15	12	0.12	
LINV	HZ	173.0	EP			08:16	13.82			0.59
LINV	HN	173.0	IAML			08:16	34.57	8	0.44	
LINV	HE	173.0	IAML			08:16	34.75	16	0.36	
LEWI	HZ	177.0	EP			08:16	13.68			-0.11
LEWI	HE	177.0	IAML			08:16	34.97	4	0.19	
LEWI	HN	177.0	IAML			08:16	35.28	4	0.21	
NEWG	HZ	199.0	EP			08:16	16.49			-0.04
GAL1	HZ	211.0	EP			08:16	17.17			-0.83

December 22 2017 Time: 01:39 46.7 UTC Magnitude: 0.5 ML
Lat: 57.187N Lon: -4.458W Depth: 7.5 km
Grid Ref: 251.46 kmE 813.34 kmN RMS: 0.30 secs
Locality: WHITEBRIDGE,HIGHLAND
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
KPL	HZ	74.1	EP			01:39	59.33			0.25
KPL	HE	74.1	ES			01:40	07.80			-0.28
KPL	HN	74.1	IAML			01:40	08.20	2	0.32	
KPL	HE	74.1	IAML			01:40	11.69	2	0.14	
INVG	HZ	88.3	EP			01:40	01.32			-0.01
INVG	HE	88.3	ES			01:40	11.34			-0.63
INVG	HN	88.3	IAML			01:40	14.05	2	0.20	
INVG	HE	88.3	IAML			01:40	14.11	1	0.17	
LINV	HZ	116.0	EP			01:40	05.48			-0.05
LINV	HE	116.0	ES			01:40	18.97			-0.28
LAWE	HZ	118.0	EP			01:40	06.23			0.29
LAWE	HE	118.0	ES			01:40	20.48			0.53
LAWE	HN	118.0	IAML			01:40	21.03	1	0.31	
LAWE	HE	118.0	IAML			01:40	23.50	1	0.42	
DRUM	HZ	123.0	EP			01:40	07.22			0.45
DRUM	HE	123.0	ES			01:40	21.40			0.02
DRUM	HE	123.0	IAML			01:40	22.03	2	0.18	
DRUM	HN	123.0	IAML			01:40	22.13	1	0.12	
BIGH	HZ	149.0	ES			01:40	27.96			0.29

December 26 2017 Time: 06:25 43.9 UTC Magnitude: 0.6 ML
Lat: 56.325N Lon: -5.430W Depth: 4.4 km
Grid Ref: 187.95 kmE 720.01 kmN RMS: 0.20 secs
Locality: KILMORE,ARGYLL & BUTE
Velocity model: Lownet Xnear: 100.0 Xfar: 200.0
Comment: 9KM SSE OBAN

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	7.5	IP		C	06:25	45.72			-0.06
LAWE	HN	7.5	ES			06:25	47.06			-0.12
LAWE	HE	7.5	IAML			06:25	47.14	88	0.10	
LAWE	HN	7.5	IAML			06:25	47.18	98	0.26	
PGB1	HZ	82.1	EP			06:25	58.35			0.31
PGB1	HE	82.1	ES			06:26	08.43			0.04
PGB1	HE	82.1	IAML			06:26	10.61	3	0.48	
PGB1	HN	82.1	IAML			06:26	11.35	2	0.53	
INVG	HZ	86.4	EP			06:25	59.09			0.36
INVG	HN	86.4	ES			06:26	09.24			-0.33
INVG	HN	86.4	IAML			06:26	12.40	3	0.16	
INVG	HE	86.4	IAML			06:26	12.76	2	0.17	
KPL	HZ	114.0	EP			06:26	02.69			-0.22
CLGH	HN	145.0	ES			06:26	24.85			-0.12

December 26 2017 Time: 15:04 07.8 UTC Magnitude: 1.0 ML
Lat: 52.591N Lon: -1.809W Depth: 8.1 km
Grid Ref: 412.94 kmE 299.30 kmN RMS: 0.20 secs
Locality: SUTTON,WEST MIDLANDS
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: SUTTON COLDFIELD

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
CWF	HZ	37.6	EP			15:04	14.52			0.04
CWF	HN	37.6	ES			15:04	19.13			-0.26
CWF	HE	37.6	IAML			15:04	19.30	8	0.12	
CWF	HN	37.6	IAML			15:04	19.38	9	0.10	
HLM1	HZ	73.2	EP			15:04	20.07			0.04
HLM1	HE	73.2	ES			15:04	28.81			-0.17
HLM1	HN	73.2	IAML			15:04	28.96	10	0.16	
HLM1	HE	73.2	IAML			15:04	29.06	11	0.22	
LBWR	HZ	90.4	EP			15:04	23.06			0.38
LBWR	HE	90.4	ES			15:04	33.54			-0.04
LBWR	HE	90.4	IAML			15:04	34.28	12	0.15	
LBWR	HN	90.4	IAML			15:04	34.46	7	0.17	
FOEL	HE	99.7	ES			15:04	35.99			-0.11
MCH1	HZ	105.0	EP			15:04	24.98			0.11
MCH1	HE	105.0	ES			15:04	37.38			0.02
MCH1	HN	105.0	IAML			15:04	38.35	3	0.18	
MCH1	HE	105.0	IAML			15:04	40.75	3	0.14	
LLW	BN	129.0	ES			15:04	43.60			-0.02

December 26 2017 Time: 22:40 05.8 UTC Magnitude: 1.7 ML
Lat: 56.438N Lon: -5.741W Depth: 8.8 km
Grid Ref: 169.41 kmE 733.58 kmN RMS: 0.20 secs
Locality: MULL,ARGYLL & BUTE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: FELT MULL... Intensity: 3

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LAWE	HZ	29.0	IP		C	22:40	11.20			-0.01
LAWE	HE	29.0	ES			22:40	14.78			-0.35
LAWE	HE	29.0	IAML			22:40	15.01	111	0.18	
LAWE	HN	29.0	IAML			22:40	15.25	123	0.10	
KPL	HZ	100.0	IP		D	22:40	22.08			-0.18
KPL	HE	100.0	ES			22:40	34.35			0.10
KPL	HE	100.0	IAML			22:40	35.99	26	0.48	
KPL	HN	100.0	IAML			22:40	36.08	18	0.20	
PGB1	HZ	105.0	EP			22:40	23.54			0.57
INVG	HZ	105.0	EP			22:40	22.81			-0.16
INVG	HE	105.0	IAML			22:40	35.96	16	0.12	
INVG	HN	105.0	IAML			22:40	36.85	29	0.30	
PGB1	HE	105.0	ES			22:40	35.58			0.11
PGB1	HE	105.0	IAML			22:40	37.05	29	0.32	
PGB1	HN	105.0	IAML			22:40	37.54	31	0.48	
CLGH	HZ	153.0	EP			22:40	29.96			0.00
CLGH	HE	153.0	IAML			22:40	51.41	10	0.16	
CLGH	HN	153.0	IAML			22:40	51.73	11	0.22	
GAL1	HZ	187.0	EP			22:40	34.16			-0.23
ESK	HZ	202.0	EP			22:40	36.49			0.16
ESK	HN	202.0	IAML			22:41	02.45	9	0.24	
ESK	HE	202.0	IAML			22:41	03.11	6	0.26	

TABLE 2 : PHASE DATA

December 26 2017 Time: 23:29 37.8 UTC Magnitude: 1.0 ML
Lat: 53.455N Lon: -2.702W Depth: 7.5 km
Grid Ref: 353.39 kmE 395.62 kmN RMS: 0.30 secs
Locality: ST HELENS,MERSEYSIDE
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
LBWR	HZ	65.2	EP			23:29	48.63			-0.23
LBWR	HN	65.2	ES			23:29	57.09			0.18
LBWR	HE	65.2	IAML			23:29	57.49	9	0.22	
LBWR	HN	65.2	IAML			23:29	58.68	9	0.18	
FOEL	HZ	71.2	EP			23:29	49.77			-0.03
FOEL	HE	71.2	ES			23:29	58.94			0.40
HPK	HZ	90.6	EP			23:29	52.73			-0.04
HPK	HE	90.6	ES			23:30	03.36			-0.30
HPK	HE	90.6	IAML			23:30	04.14	10	0.22	
HPK	HN	90.6	IAML			23:30	04.35	15	0.22	
LLW	BZ	93.2	EP			23:29	53.39			0.22
LLW	BE	93.2	ES			23:30	03.96			-0.40
LLW	BN	93.2	IAML			23:30	05.79	3	0.10	
LLW	BE	93.2	IAML			23:30	05.97	2	0.16	
HLM1	HE	105.0	ES			23:30	07.29			-0.29
HLM1	HE	105.0	IAML			23:30	08.40	4	0.39	
HLM1	HN	105.0	IAML			23:30	08.98	3	0.15	
WLF1	HZ	114.0	EP			23:29	56.45			0.04
WLF1	HN	114.0	ES			23:30	09.69			-0.28
WLF1	HE	114.0	IAML			23:30	11.07	5	0.12	
WLF1	HN	114.0	IAML			23:30	11.62	8	0.18	
WPS	HZ	120.0	EP			23:29	57.53			0.31
WPS	HN	120.0	ES			23:30	11.25			-0.13
WPS	HE	120.0	IAML			23:30	11.47	3	0.30	
WPS	HN	120.0	IAML			23:30	12.10	3	0.25	
CWF	HN	123.0	ES			23:30	12.43			0.13
CWF	HN	123.0	IAML			23:30	13.99	3	0.11	
CWF	HE	123.0	IAML			23:30	14.04	4	0.10	
YRC	EZ	127.0	EP			23:29	58.62			0.32
EDMD	HZ	161.0	EP			23:30	02.90			-0.23
EDMD	HE	161.0	ES			23:30	21.90			0.31

December 27 2017 Time: 11:54 14.0 UTC Magnitude: 2.1 ML
Lat: 52.803N Lon: 1.839W Depth: 5.0 km
Grid Ref: 658.73 kmE 329.77 kmN RMS: 0.40 secs
Locality: SOUTHERN NORTH SEA
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0
Comment: 11KM OFF NORFOLK

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
WACR	HZ	82.2	EP			11:54	27.52			-0.28
WACR	HN	82.2	ES			11:54	37.36			-0.48
WACR	HE	82.2	IAML			11:54	38.87	44	0.10	
WACR	HN	82.2	IAML			11:54	38.87	43	0.26	
ELMS	HZ	97.8	EP			11:54	30.58			0.35
ELMS	HE	97.8	ES			11:54	41.94			-0.11
ELMS	HN	97.8	IAML			11:54	43.62	125	0.28	
ELMS	HE	97.8	IAML			11:54	45.19	130	0.22	
LMK	HZ	162.0	EP			11:54	39.60			-0.20
LMK	HE	162.0	ES			11:54	58.77			0.17
LMK	HE	162.0	IAML			11:54	58.95	89	0.38	
LMK	HN	162.0	IAML			11:55	02.24	110	0.28	
CWF	HZ	212.0	EP			11:54	45.94			-0.30
CWF	HN	212.0	ES			11:55	10.59			0.84
CWF	HN	212.0	IAML			11:55	13.07	15	0.14	
CWF	HE	212.0	IAML			11:55	14.01	8	0.14	

December 29 2017 Time: 02:03 02.3 UTC Magnitude: 1.0 ML
Lat: 52.025N Lon: -3.763W Depth: 7.4 km
Grid Ref: 279.05 kmE 237.80 kmN RMS: 0.10 secs
Locality: LLANDOVERY,CARMARTHS
Velocity model: Lownet Xnear: 500.0 Xfar: 1000.0

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
MCH1	HZ	52.6	EP			02:03	11.28			-0.07
MCH1	HN	52.6	ES			02:03	17.77			-0.19
MCH1	HN	52.6	IAML			02:03	17.98	17	0.15	
MCH1	HE	52.6	IAML			02:03	18.05	9	0.16	
LLW	BZ	91.9	EP			02:03	17.70			0.26
LLW	BE	91.9	ES			02:03	28.40			-0.10
LLW	BE	91.9	IAML			02:03	30.44	2	0.15	
LLW	BN	91.9	IAML			02:03	30.64	1	0.28	
FOEL	HZ	104.0	EP			02:03	19.23			-0.07
FOEL	HN	104.0	ES			02:03	31.74			0.04
STRD	HE	114.0	ES			02:03	34.30			-0.01
STRD	HN	114.0	IAML			02:03	35.19	5	0.16	
STRD	HE	114.0	IAML			02:03	35.36	8	0.46	
WLF1	HN	147.0	ES			02:03	42.57			-0.18
WLF1	HN	147.0	IAML			02:03	43.41	4	0.26	
WLF1	HE	147.0	IAML			02:03	43.49	8	0.16	
CWF	HZ	185.0	EP			02:03	30.96			0.15
CWF	HN	185.0	ES			02:03	51.80			0.17
CWF	HE	185.0	IAML			02:03	52.36	1	0.10	
CWF	HN	185.0	IAML			02:03	52.53	1	0.14	

December 31 2017 Time: 08:56 40.5 UTC Magnitude: 1.9 ML
Lat: 50.101N Lon: -3.169W Depth: 7.3 km
Grid Ref: 316.41 kmE 23.05 kmN RMS: 0.50 secs
Locality: ENGLISH CHANNEL
Velocity model: Lownet Xnear: 125.0 Xfar: 250.0
Comment: 40KM SE DARTMOUTH

STAT	CO	DIST	PHAS	WT	P	HrMn	SECS	AMPL	PERI	RES
DYA	HZ	65.8	EP			08:56	51.22			-0.41
DYA	HN	65.8	ES			08:56	58.80			-0.95
SBD	BZ	120.0	EP			08:57	00.27			0.30
SBD	BE	120.0	ES			08:57	14.11			-0.06
JLP	EZ	122.0	EP			08:57	00.12			-0.21
JSA	HZ	125.0	EP			08:57	00.51			-0.17
JSA	HN	125.0	ES			08:57	15.09			-0.31
JSA	HN	125.0	IAML			08:57	16.26	26	0.28	
JSA	HE	125.0	IAML			08:57	16.80	36	0.20	
JRS	EE	128.0	EP			08:57	01.47			0.35
JDC	EZ	129.0	EP			08:57	01.35			-0.02
JDG	EZ	129.0	EP			08:57	01.50			0.13
HTL	HZ	136.0	EP			08:57	03.30			0.94
HTL	HN	136.0	IAML			08:57	22.59	21	0.15	
HTL	HE	136.0	IAML			08:57	23.85	22	0.28	
CCA1	HZ	147.0	EP			08:57	04.90			0.91
CCA1	HN	147.0	ES			08:57	21.32			0.20
CCA1	HE	147.0	IAML			08:57	22.67	15	0.14	
CCA1	HN	147.0	IAML			08:57	22.88	25	0.13	
ROSF	BZ	196.0	EP			08:57	09.69			-0.78

TABLE 3

GEOGRAPHIC COORDINATES OF SEISMOGRAPH STATIONS, 2017

Code	Name	Lat	Lon	E (km)	N (km)	Ht (m)	Comp
AQ01	HOSCAR	53.6068	-2.7944	347.53	412.54	24	BB
AQ02	BANKS	53.6905	-2.8967	340.88	421.94	17	BB
AQ03	WARTON	53.7595	-2.8866	341.65	429.61	23	BB
AQ04	BALLAM	53.7760	-2.9690	336.24	431.51	11	BB
AQ06	THISTLETON	53.8250	-2.9110	340.13	436.91	28	BB
AQ07	GOOSNARGH	53.8420	-2.6660	356.28	438.62	90	BB
AQ09	RAWCLIFFE	53.8846	-2.9048	340.62	443.54	7	BB
AQ10	GARSTANG	53.9150	-2.8270	345.78	446.86	22	BB
AQ12	SELSIDE	54.4370	-2.7520	351.32	504.88	389	BB
AR01	HASLINGDEN	53.7022	-2.3450	377.32	422.92	256	BB
AR05	SKIPTON	53.9910	-2.0190	398.85	454.99	259	BB
AR09	INGLETON	54.2260	-2.4410	371.35	481.23	481	BB
AS02	UPPERMILL	53.5542	-1.9856	401.05	406.40	287	BB
AS03	WAINSTALLS	53.7674	-1.9563	402.98	430.12	376	BB
AS07	CARLTON	54.2540	-1.9380	404.14	484.26	411	BB
AS10	WINSTON	54.5520	-1.8320	410.96	517.43	156	BB
AT08	MYTON-ON-SWALE	54.0985	-1.3110	445.16	467.18	19	BB
AT10	SNILESWORTH	54.3700	-1.1760	453.63	497.48	333	BB
AT12	BISHOPTON	54.5770	-1.4480	435.78	520.34	62	BB
AU05	LAYTHAM	53.8599	-0.8741	474.15	441.00	3	BB
AU07	BIRKDALE	54.1120	-0.9590	468.15	468.96	102	BB
AU08	SOUTH WOLD	54.1238	-0.6613	487.59	470.60	175	BB
AU09	BARTON-LE-STREET	54.1460	-0.8910	472.54	472.81	103	BB
AU10	KIRBY MISPERTON 1	54.1960	-0.8180	477.21	478.45	20	BB
AU11	EAST NESS	54.1974	-0.9325	469.74	478.49	34	BB
AU13	KIRBY MISPERTON 2	54.1993	-0.7941	478.77	478.84	25	BB
AU14	KIRBY MISPERTON 3	54.2030	-0.8320	476.29	479.21	23	BB
AU15	NORMANBY	54.2285	-0.8794	473.15	482.00	60	BB
AU16	KIRBY MISPERTON 4	54.2385	-0.8125	477.49	483.18	21	BB
AU18	THORNTON DALE	54.2482	-0.7095	484.18	484.38	83	BB
AU20	PICKERING	54.2940	-0.7870	479.05	489.39	151	BB
AV06	GANTON	54.1630	-0.4820	499.21	475.20	173	BB
BIGH	UPPER BIGHOUSE	58.4932	-3.9102	288.75	957.69	70	BBSMR
CCA1	CARNMENELLIS	50.1866	-5.2277	169.62	36.90	210	BBSMR
CLGH	CUSHENDALL	55.0828	-6.1106	137.76	584.21	239	BBR
CWF	CHARNWOOD FST	52.7385	-1.3076	446.74	315.91	203	BBSMR
DRUM	DRUMTOCHTY	56.9123	-2.4865	370.48	780.23	208	BBSMR
DYA	YADSWORTHY	50.4353	-3.9310	262.88	61.34	292	BBR
EAB	ABERFOYLE	56.1887	-4.3373	254.97	702.02	279	1R
EAU	AUCHINOON	55.8454	-3.4474	309.38	662.30	359	1R
EBL	BROAD LAW	55.7723	-3.0445	334.48	653.71	436	1R
EDI	EDINBURGH	55.9233	-3.1875	325.80	670.66	125	BBR
EDMD	EDMUNDBYERS	54.8312	-1.9636	402.43	548.48	337	BBR
EDU	DUNDEE	56.5477	-3.0110	337.85	739.97	421	1R
ELMS	ELMSETT	52.0934	0.9895	604.88	248.11	75	BBSMR
ELSH	ELHAM	51.1482	1.1345	619.32	143.44	126	BBSMR
ESK	ESKDALEMUIR	55.3165	-3.2052	323.52	603.16	261	BBR
ESY	STONEYPATH	55.9175	-2.6141	361.62	669.55	337	1R
FOEL	FOEL WYLFA	52.8898	-3.2012	319.27	333.15	449	BBSMR
GAL1	GALLOWAY	54.8664	-4.7114	226.02	555.78	117	BBR
GDLE	GLAISDALE	54.4218	-0.8157	476.94	503.57	228	BBSMR
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
GVIE	GLENDOE VIEW	57.1010	-4.5590	245.04	804.04	663	BB
HEX	EXMOOR	51.0664	-3.8026	273.71	131.28	230	1R
HLM1	LONG MYND	52.5184	-2.8807	340.25	291.57	429	BBR
HMNX	HERSTMONCEUX	50.8674	0.3363	564.49	110.15	26	BBR
HPK	HAVERAH PARK	53.9581	-1.6241	424.66	451.42	233	BBSMR
HTL	HARTLAND	50.9943	-4.4849	225.64	124.66	86	BBSMR

TABLE 3

GEOGRAPHIC COORDINATES OF SEISMOGRAPH STATIONS, 2017

Code	Name	Lat	Lon	E (km)	N (km)	Ht (m)	Comp
INVG	INVERGELDIE	56.4273	-4.0452	273.96	727.99	279	BBSMR
IOMK	KIRK MICHAEL	54.2605	-4.5662	232.95	488.02	188	BBR
JDC	DAM (CREST)	49.1947	-2.0469			39	SMR
JDG	DAM (GALLERY)	49.1947	-2.0469			7	SMR
JLP	LES PLATONS	49.2486	-2.1039			129	1R
JQE	QUEENS EAST	49.2000	-2.0383			58	1R
JRS	MAISON ST LOUIS	49.1922	-2.0922			56	3R
JSA	ST AUBINS	49.1878	-2.1717			39	BBR
JVM	VALLE DE LA MARE	49.2169	-2.2067			64	1R
KAC	ACHNASHELLACH	57.4989	-5.2988	202.36	850.19	206	1R
KESW	KESWICK	54.5886	-3.1048	328.70	522.05	282	BBSMR
KPL	PLOCKTON	57.3391	-5.6527	180.21	833.50	13	BBSMR
LAWE	LOCH AWE	56.2601	-5.3990	189.58	712.71	137	BBSMR
LBWR	LADYBOWER	53.4016	-1.7248	418.40	389.45	353	BBSMR
LEWI	LEWIS	58.1446	-6.8696	113.57	927.65	69	BBR
LINV	LOCH INVER	58.1470	-5.1970	211.94	922.03	57	BBR
LMK	MARKET RASEN	53.4573	-0.3274	511.15	396.92	133	BBSMR
LRW	LERWICK	60.1360	-1.1779	445.66	1139.27	98	BBSMR
MCD	COLEBURN DISTIL	57.5828	-3.2541	325.02	855.42	293	BBR
MCH1	MICHAELCHURCH	51.9974	-2.9983	331.47	233.74	219	BBSMR
MDO	DOCHFOUR	57.4409	-4.3633	258.17	841.39	415	1R
MLA1	LATHERON	58.3055	-3.3627	320.15	935.98	188	1R
MME1	MEIKLE CAIRN	57.3149	-2.9647	341.90	825.32	475	1R
MONM	MONMOUTH	51.8396	-2.8054	344.61	215.98	145	BBR
MVH1	ACHVAICH	57.9250	-4.1825	270.75	894.90	185	1R
NEWG	NEW GALLOWAY	55.1173	-4.2299	257.88	582.59	151	BBR
OLDB	OLDBURY	51.6609	-2.5514	361.95	195.94	6	BBSMR
PGB1	GLENIFFERBRAES	55.8115	-4.4837	244.38	660.37	199	BBR
RSBS	ROSEBUSH	51.9530	-4.7448	211.48	231.84	278	BBR
SAN1	SANDWICK	60.0179	-1.2392	442.41	1126.08	150	1R
SKP1	KOPHILL	51.7218	-0.8096	482.22	203.29	212	1R
SOFL	SORNFELLI	62.0689	-6.9658			721	BBR
SPK	SELLA PARK	54.4183	-3.4913	303.24	503.58	50	SM
SSW	STOW-ON-WOLD	51.9667	-1.8499	410.31	229.86	291	1R
STNC	STOKE	53.0913	-2.2062	354.95	386.19	234	BBR
STRD	STROUD	51.7763	-2.1643	388.77	208.64	200	BBR
SWN1	SWINDON	51.5137	-1.8007	413.83	179.49	192	BBSMR
TOA	TORNESS A	55.9692	-2.4037	374.80	675.20	5	SM
TOB	TORNESS B	55.9673	-2.4085	374.50	674.99	5	SM
THP	THORPE	54.4183	-3.4913	303.24	503.58	50	SM
WACR	WEST ACRE	52.7247	0.6267	577.48	317.35	66	BBSMR
WAL1	WALLS	60.2564	-1.6173	421.18	1152.46	167	1R
WIM	ISLE OF MAN	54.1475	-4.6738	225.39	475.73	386	1R
WLF1	LLYNFAES	53.2894	-4.3966	240.27	379.65	58	BBSMR
WME	MYNDD EILIAN	53.3969	-4.3032	246.88	391.40	129	1R
WPM1	PENMAENMAWR	53.2581	-3.9048	272.95	375.18	353	1R
WPS	CAMAES, ANGLESEY	53.4004	-4.4986	233.98	392.19	16	BBSMR
YEL1	YELL	60.5509	-1.0830	450.29	1185.55	203	1R
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	52.9810	-4.4254	237.19	345.42	197	1R

Component Codes:

1 Single vertical seismometer
3 Orthogonal set of 3 seismometers
SM Strong motion seismometers
BB Broadband Instruments
R Station coordinates registered with the International Seismological Centre (ISC), England and the National Earthquake Information Centre (NEIC), USA

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 Catalogue 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 East.
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, 3, 4, 5 etc. describes the maximum EMS intensity produced by the event.
Comments	Additional comments about the event e.g.: C/F, see below under comments abbreviations.

The following abbreviations are extracted from the output of the location program HYPOCENTER (Leinart and Havskov, 1995)

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 and Comments abbreviations

Sonic	Sonic event
Worcs	Worcestershire
Oxon	Oxfordshire
Co	County
D & G	Dumfries & Galloway
Carmarths	Carmarthenshire
Glos	Gloucestershire
Lincs	Lincolnshire
Salop	Shropshire
E Dunbarton	East Dunbartonshire
…	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, 3, 4, 5 etc. describes the maximum EMS intensity produced by the event.
Comments	Additional comments about the event e.g.: C/F see list of comments and abbreviations in Appendix 1.
STAT	Station name
CO	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 e.g. P, S, PG, PN, IAML
WT	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 e.g.; 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: Grünthal, G., (Ed) 1998. European Macroseismic scale 1998. Cahiers du Centre European de Geodynamique et de Seismologie. Vol 15.

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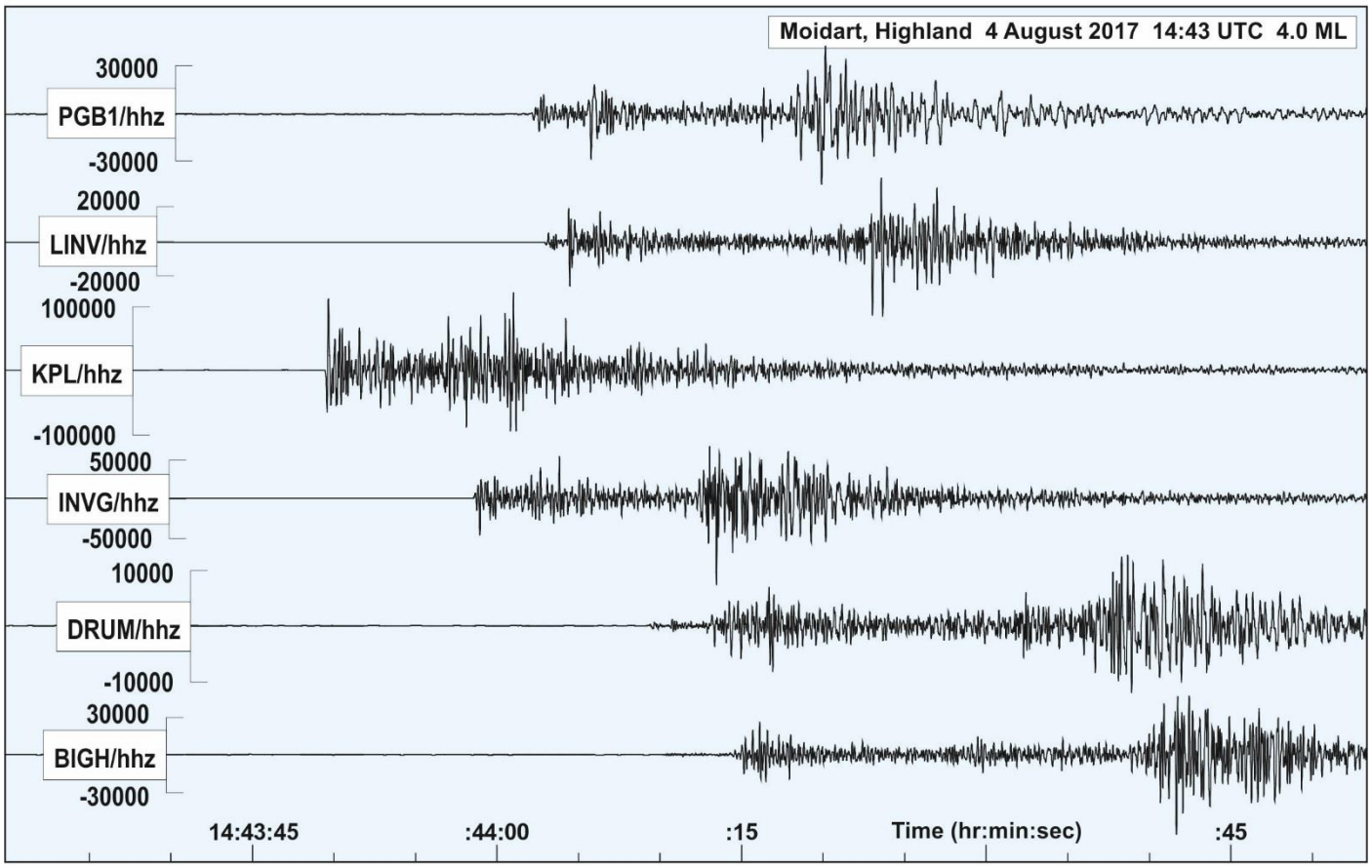
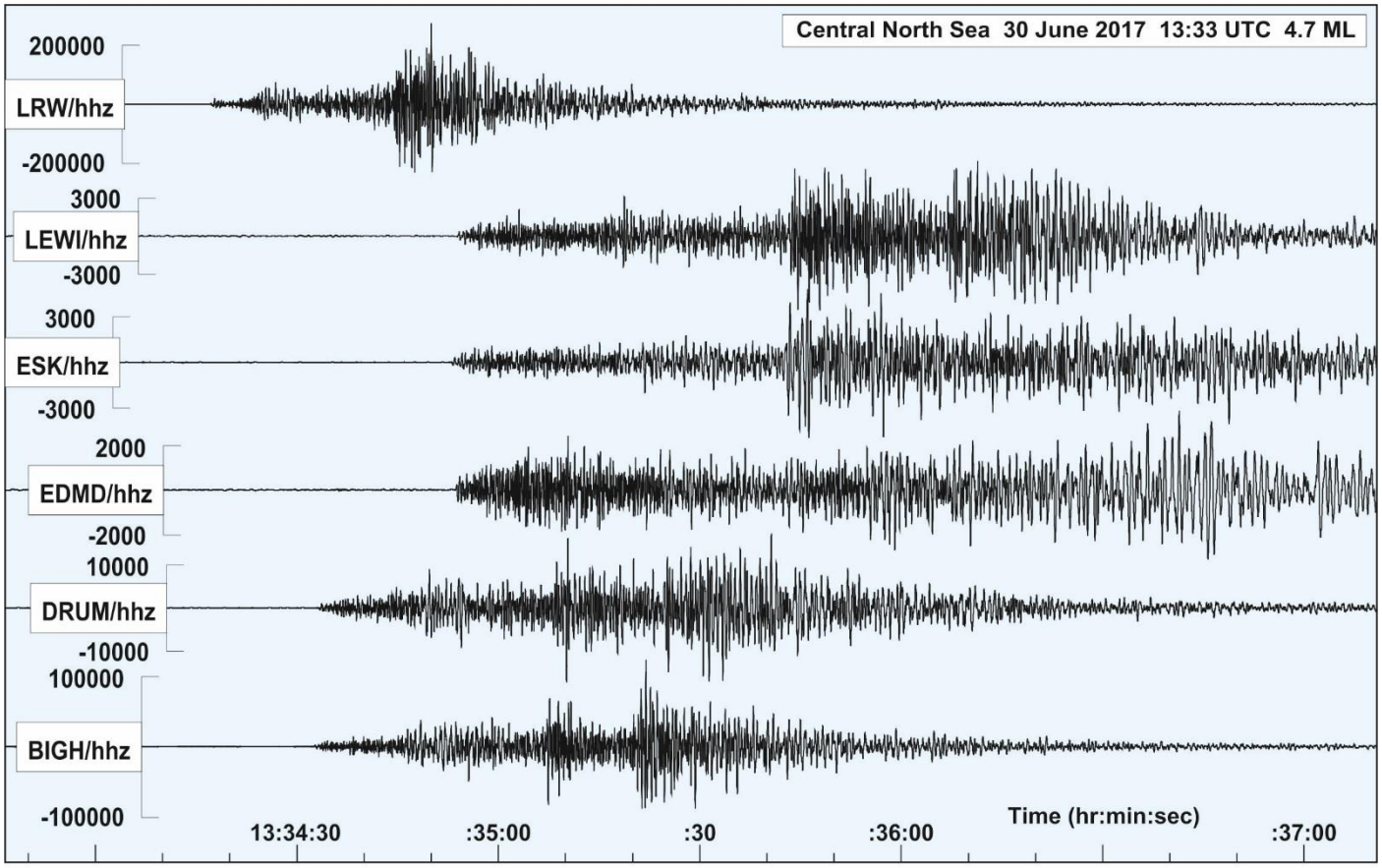


Seismograms of the ground displacement from the magnitude 4.0 ML Moidart earthquake on 4 August 2017.



Seismograms of the ground displacement from the magnitude 4.7 ML Central North Sea earthquake on 30 June 2017.