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OCCURRENCES OF *LOPHELIA PERTUSA*

ON THE ATLANTIC MARGIN

by

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Occurrences of *Lophelia pertusa* on the Atlantic margin.

British Geological Survey Technical Report WB/99/24

Long, D., Roberts, J.M. & Gillespie, E.J. 1999

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Introduction

While corals are most abundant and species-rich in shallow-water tropical seas, it has been known for many years that scleractinian corals are also found in temperate regions where there can be large structures of coral in deep continental shelf edge waters. These accumulations, variously referred to as patches, coral banks, bioherms and reefs, are composed of several coral species but the most abundant is *Lophelia pertusa* (L.) (Fig 1). This coral's growth form provides a habitat for a diverse associated fauna. *L. pertusa* does not contain symbiotic algae (zooxanthellae) and so unlike tropical coral species is not restricted to well-lit surface waters. Since individual polyps divide and grow to form colonies, but adult polyps are no longer joined by a tissue connection they are correctly termed pseudo-colonial azooxanthellate corals. There is growing concern over the environmental sensitivity of deep-water coral communities to both hydrocarbon exploration and deep-water trawling (Roberts, 1997; Rogers, 1999).

Lophelia pertusa was first discovered in the north-east Atlantic, offshore Norway (Gunnerus, 1768) with finds in the middle of the last century offshore the UK (Johnston, 1847; Wilson, 1979a). Although *L. pertusa* is also known to occur in the north-west Atlantic, Pacific and Indian oceans and the Mediterranean, most records are from the north-east Atlantic, including the Norwegian coast (e.g. Dons, 1944; Strømgren, 1971; Freiwald et al., 1997), around the Faroes (Frederiksen et al., 1992), to the west of Shetland (Wilson, 1979b) and on Rockall Bank (Wilson, 1979b; Zibrowius, 1980).

As with other scleractinians, *Lophelia pertusa* requires a hard settlement substrate (e.g. rock outcrop or a boulder). According to Wilson's description of patch development on Rockall Bank (Wilson, 1979c), once settled on a suitable hard substrate, coral colonies can expand themselves across areas of soft sediment by growing outwards and eventually breaking. These broken colonies accumulate on the surrounding sediment and may continue to grow or provide new areas of hard substrate for colonisation. Wilson (1979c) described this as developing through so-called 'thicket' and 'coppice' stages to form coral rings of about 10 to 13 metres in width. As the patch matures into the coppice stage, in the central, older region of the patch the colonies will be increasingly attacked by boring and will eventually collapse. This leaves a coral patch made of at least two major habitat types, outer living coral and inner dead coral skeleton. Thus the coral provides a complex habitat for other species and is well

known to support a diverse associated fauna (Le Danois, 1948; Dons, 1944; Jensen & Frederiksen, 1992; Mortensen et al., 1995).

Lophelia pertusa is associated with oceanic water, temperatures of between 4 and 12°C (Dons, 1944) and thus on the Norwegian coast, coral banks are only found in fjords having a deep water connection to the open sea (Dons, 1944; Strømgren, 1971).

Along the north east Atlantic margin, our understanding of the distribution of *Lophelia pertusa* remains incomplete. Wilson (1979b) gathered the information available at that time from the scientific literature, trawl records, dredging and submersible observations. His study suggested that *L. pertusa* was sparsely distributed to the west of Shetland but was very much more abundant further south west on Rockall Bank. The small size of these colonies contrasts with that on the Norwegian coast where large coral banks are known in fjords having a deep water connection to the open sea (Dons, 1944) and where the largest *L. pertusa* bank, on the Sula Ridge, has been identified (Hovland et al., 1998). This collection of coral banks has in places grown to over 30 metres in height and extends for more than 13 kilometres in length (Freiwald et al., 1999).

Database

To assist a range of studies concerning *Lophelia pertusa* undertaken under the NERC / MTD MIME initiative (Managing Impacts in the Marine Environment) a database of reported occurrences within the UK offshore designated area has been tabulated (see Appendix). However this has been extended to adjacent areas to provide a more complete assessment of distribution in the Faroe – Shetland Channel and the Rockall Trough. The appendix contains details on all recordings of *L. pertusa* as noted in papers, cruise reports etc following literature searches, requests to relevant research groups and examination of other listings (eg Wilson, 1979a; Frederiksen et al., 1992; Rogers, 1999). These are grouped by the method of recovery as either “traverses” or “sites” and organized from west to east and north to south by degree rectangles. This listing is not considered complete for areas outwith the UK offshore designated area but thought to be virtually complete for the UK. It contains details of 150 “traverses” and 170 “sites”.

“Traverses” are reported recoveries collected while the vessel was moving and where start and end points are known. These may comprise trawls (net or dredge) or seabed-viewing equipment, ranging from manned submersible to photographic sledges. Therefore the seabed occurrence of *Lophelia pertusa* is somewhere between two end points. Such traverses may be very long, some in excess of 200 km, and the value of a reported *L. pertusa* occurrence is therefore somewhat limited. Those traverses over 50 km or where they cover a wide range of water depths have been excluded from the map.

“Sites” include samples recovered from a known location (subject to positioning accuracy) and may be from a wide variety of sampling devices, including, boxcores, gravity cores, piston cores. However where only a single location is reported for underway sampling (eg trawling then it too is reported as a site of *Lophelia pertusa* occurrence.

Location is given in degrees and decimal minutes. The accuracy of positioning will be suspect in older records. This is evident in the “round numbers” given for location e.g. 61° 00.00’N or 10° 10.00’W particularly for data gathered prior to about 1975. More modern records are likely to have used satellite-positioning systems. Additional information for each reported *Lophelia pertusa* occurrence is also included in the Appendix. This includes who originally collected the sample, the sampling methodology used, the water depth, original sample number and any references to any published reports.

Water depths are given as reported. Several sites have no water depth information. No attempt has been made to estimate a water depth for a site from other bathymetric information or to validate water depths given in reports.

No distinction has been made between samples where *Lophelia pertusa* has been recovered at seabed or buried. In the few instances where the latter occurs burial is usually shallow (<10 cms) but may extend to more than 3 m below seabed (Long, 1998a). The burial of coral may be a function of sedimentary processes (eg along slope contour currents) or seabed reworking as a result of fishing activity.

Accuracy of species identification

A wide range of names has been applied to *Lophelia pertusa* in the past (Rogers, 1999). Some early reports of *L. pertusa* have some remaining samples located in collections (eg Aberdeen University, National Museum of Scotland, Hancock Museum (Newcastle) and the Natural History Museum (London) (Wilson, 1979a). Modern re-examination has confirmed the true identification of *L. pertusa* (Wilson, 1979a). Therefore where several species had been presumed only a single form occurs.

However today there is a tendency to assume all deep water cold water corals are *Lophelia pertusa*. Other species of pseudo colonial azooxanthellate coral also occur in the NE Atlantic including *Madrepora oculata* and *Solenosmilia variabilis* (Zibrowius, 1980). This leads to instances such as when the *R/V Professor Logachev* cruise TTR7 sampled coral on the margins of the Rockall Trough (Kenyon et al., 1998) many of the sample descriptions referred to the presence of live coral or even *L. pertusa* (Mazzini et al., 1998). However, detailed biological examination suggests that several different types of coral were collected and only some of the reported occurrences are *L. pertusa* (Wilson and Vina Herbon, 1998). *Madrepora oculata* and *Desmophyllum cristagalli* were also recorded.

As part of its regional mapping programme the British Geological Survey has collected more than 3000 samples in water depths greater than 200 m. Many of the recorded samples were originally described as containing corals. These occurrences have been re-examined during this project where samples are still available and some have been shown to be single corals such as cup corals, *Caryophyllia smithii*, or even other taxa including bryozoa with only a few being samples of *Lophelia pertusa*.

Mounds

It has been suggested that *Lophelia pertusa* occurs as small reefs and these features may be considered a hazard to seabed activities. It has also been presumed that such a topographic expression could be used to map the distribution of the coral using acoustic surveying equipment such as sidescan sonar.

Large features up to 30 m high have been interpreted as coral reefs on Hatton Bank (Chesher, 1989) and Rockall Plateau (Akhmetzanov et al., 1998) and samples of *Lophelia pertusa* have subsequently been recovered from the vicinity. Likewise outwith the map area in the Porcupine Seabight (Henriet et al., 1998). These generally occur in water depths greater than 500 m. Detailed studies of the largest cold-water coral reef so far reported in the north-east Atlantic, the Sula Ridge, offshore mid-Norway in 270-310 m water depth, shows that it is at least 13km in length, 10-35m in height and some hundreds of metres across (Freiwald et al., 1999). To the southwest of the reef the corals occur as discrete mounds typically 30 m high, 150 m wide, 500 m long. These mounds extend over several 10's of kilometres (Hovland et al., 1998) and provide the basis of important ecosystems (Freiwald and Wilson, 1998). However no such features have been reported in areas of current hydrocarbon exploration north and west of the UK.

A range of mound-like structures has been reported in deepwater west of the UK. Site surveys conducted for exploration wells west of Shetland have frequently reported the presence of mounds on the seabed. They are usually 1-2 m high and 10-25 m in diameter (Fig 2). These have been interpreted as coral patches or carbonate mounds without sampling / visual evidence. An analysis of these features (Long, 1998b) in more than a dozen reports suggests that their occurrence is restricted to water depths in excess of 400 m and areas of soft / very soft sediments (Fig 3). Their frequency increases with depth with the greatest numbers in water depths greater than 700 m.

Slightly larger mounds, 200 m diameter, 3-4 m high, have been reported in the north-eastern part of the Rockall Trough (Bett, 1999). These have been shown to be associated with *Lophelia pertusa*. Although the mounds themselves do not comprise *L. pertusa* or coral debris (Holmes et al., 1988) they provide an elevated position on which the coral grows. The mounds appeared on video traverses to include clay rich material protruding through the surface of rippled sandy sediments (Holmes et al., 1988). There are also other biological associations that make these features of interest, eg the enhanced distribution of xenophyophores on the mound and within a "tail" down current from the mound (Bett, 1999).

Large mound like features, up to 1 km wide and 10's of metres high, have been noted at the northern end of the Faroe – Shetland Channel. These are thought to be mud diapirs (Long, 1998b; King et al., in prep) found at depths where the bottom water temperatures are too low for coral growth.

Map

The map of *Lophelia pertusa* occurrence to the north and west of the UK (Fig 4) uses the information given in the database (Appendix 1). The enclosed map is at a scale of 1:2,000,000. It is orientated such that north is at about 60° clockwise from the top of the paper sheet to maximise the scale within the paper available. The southern limit has been designed to include much of the Rockall Trough but to exclude the Porcupine Seabight where numerous large mounds, possibly of hydrocarbon origin, with abundant *L. pertusa* have been reported (eg Henriot et al., 1998). Although the latter area is an important part of the *L. pertusa* distribution in the NE Atlantic it is distinct from the UK offshore designated area.

The map distinguishes through colour the status of the recovered sample indicating if it was recovered / observed alive or dead, or unknown where no information on the status was reported. Sites of recovered / reported *Lophelia pertusa* are illustrated as a circle. However, if the means of collecting suggests that the survey vessel was moving at the time the sample of *L. pertusa* was collected eg a sledge or trawl, then a cross is plotted. Traverses are displayed as lines between the recorded end-points. Where traverses exceed 50 km in length or where they cover a wide range of water depths they have been excluded from the map. Where traverses are shorter than 2 km they have been displayed as a cross, centred on the mid-point between start and end positions. This is because if the traverse is represented by a line of less than 1mm in length it would appear insignificant compared with longer traverses yet the confidence in the accuracy of the location of *L. pertusa* (recovered / reported) is probably as good as at most site locations.

Interpretation of the map

The map and database show that *Lophelia pertusa* has been found widely distributed west of the UK. Water depths vary from 100 to 1500 m. The reported finding of *L. pertusa* in 2640 m in the Rockall Trough, south west of the Hebrides Terrace Seamount (Joubin, 1922a, b), has been ignored in the data displays (Fig 5d). The water depths where it has been reported depend on various factors and can be selective. There is not an even distribution of water depths across the area, for example the tops of banks are relatively flat giving large areas of a similar water depth. The surveys are not regional but selective for small areas with only a few extending over large areas. For example *L. pertusa* recovered as the result of fishing activity is restricted to areas and water depths of bottom trawling.

The map shows that *Lophelia pertusa* occurs throughout the area north and west of the UK. It has a preference for slope areas with only a few occurrences on the shelf, in particular the Hebridean and Shetland shelves compared with the Rockall plateau and Faroese shelf. Some of these reports from the Scottish shelf are over a hundred years old and have not been recently replicated eg in the Minches. Yet recent reports of *L. pertusa* growing on man-made structures (eg Brent Spar, Beryl) shows that there is an active dispersal of coral planula larvae within the upper parts of the water column and can grow to more than 20 cm within twenty years (Pearce, 1999; Shimmield, 1999).

The preference for slope locations has been noted previously. Frederiksen et al., (1992) suggested that the distribution of *Lophelia pertusa* around the Faroe Islands could be related to areas of the continental edge that reached a critical slope to allow internal tidal waves to be generated (Huthnance, 1989). Such waves are believed to increase the vertical nutrient flux through a thermocline to bands of colder water where the increased nutrient availability promotes phytoplankton production (Sandstrom and Elliot, 1984). This could then increase the vertical detritus flux and so the food available for benthic suspension-feeders. As water depth increases, the link between increased phytoplankton production and detritus fall will become less important, so to explain the link between critical slopes and *L. pertusa* colonies in deeper water, Frederiksen et al. (1992) suggest that the critical slope also promotes increased bottom mixing and resuspension. These processes could add to the supply of food particles further down the slope from the region where they were resuspended.

There appears to be a greater abundance of *Lophelia pertusa* on the slopes around Rockall and Porcupine banks compared with the West Shetland and west of Hebrides margins. A potentially significant difference between these areas (even in areas of seabed temperatures $>4^{\circ}\text{C}$, see following section) is that terrigenous input in the latter areas was considerably greater during recent glacial periods. This could obscure rock outcrops with loose sediments and thereby limit the amount of seabed available as potential anchorage for colonies of *L. pertusa* to become established. The entire Atlantic margin was subjected to dropstones from icebergs that could provide settlement points for *L. pertusa*. However, these too would have had a greater likelihood of burial west of the Hebrides and Shetland by terrigenous input to the slope areas from ice-sheets that extended to and locally beyond the shelf break at the Barra Fan, Sula Sgeir Fan and west of Shetland

Constraints on the distribution of *Lophelia pertusa*

The dataset and map can be used to identify locational constraints on the distribution of *Lophelia pertusa*. The map area has been subdivided in four geographical areas:

Southern Rockall Trough – all sites south of 56°N

Northern Rockall Trough – all sites between 60°N and 56°N

Banks south and west of the Faroes – all sites north of 60°N and west of 7°W

Faroe – Shetland Channel – all sites north of 60°N and east of 7°W

The titles are for ease of use and the areas include data outside the topographic feature e.g. the Northern Rockall Trough area includes sites on Hatton Bank and the Rockall Plateau. The data have been plotted against water depth in 25 m intervals (Figs 5a-d). Reports of *L. pertusa* from the North Sea have been excluded, as the oceanographic regime there is significantly different from that west of the UK. Also excluded from the plots are those reports listed in the Appendix that do not indicate the water depth where the sample was recovered and no attempt has been made to estimate water depth from published bathymetry maps. The plots (Figs 5a-d) indicate an even distribution of live and dead corals suggesting there has been little downslope transport.

Examining the variability in coral distribution with water depth indicates that in all areas, except the Faroe – Shetland Channel, the distribution of *Lophelia pertusa* extends to more

than 1 km depth (Fig 6). Although deep water occurs in the Faroe – Shetland Channel (it extends to more than 1500 m), *L. pertusa* has not been recovered from such depths (Fig 5a) despite the large amount of seabed sampling in the area. This apparent anomaly fits with the difference in bottom water temperatures (typically -1°C) west of Shetland compared with the Rockall Trough (typically 4°C) for 1000 m water depth. This is caused by the presence of cold Norwegian bottom waters moving south westwards through the Faroe – Shetland Channel from the Norwegian Sea and then entering the North Atlantic via the Faroe Bank Channel where it mixes with warmer waters. This temperature control on the distribution fits with other studies of *L. pertusa* that suggest it can not thrive in water temperatures below 4°C (eg Dons, 1944; Friewald et al., 1998). The distribution of *L. pertusa* in the Faeroe – Shetland Channel is completely at variance with the distribution of the seabed mounds. Therefore in the Faroe – Shetland channel it is unlikely that these features are associated with coral growth.

Conclusions

1. *Lophelia pertusa* occurs offshore the British Isles.
2. It is locally abundant, particularly in areas away from terrigenous inputs, where rock outcrops or other suitable substrates are available to produce an initial anchorage for colonisation.
3. There is little difference in the bathyal distribution of live and dead recovered samples of *Lophelia pertusa* suggesting minimal downslope transport.
4. The bathyal distribution of *Lophelia pertusa* in the Faeroe – Shetland Channel is significantly different from other areas west of the UK. There is a strong temperature control. In water depths beyond 500 m where bottom water temperatures are less than 4°C and are often below 0°C *Lophelia pertusa* can not thrive.
5. Environmental studies of the seabed in the centre of the Faroe – Shetland Channel, where bottom water temperatures are less than 4°C , can be planned without the need to search for the occurrence of *Lophelia pertusa*.

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Figures

Fig 1 Photograph of *Lophelia pertusa*

Fig 2 Seismic profile across a seabed mound West of Shetland

Fig 3 Map showing area of mounds West of Shetland (modified from Long 1998b)

Fig 4 A4 copy of the enclosed map

Fig 5a Numbers of total recoveries of *Lophelia pertusa* in the Faroe – Shetland Channel (north of 60°N east of 7°W) for each 25m bathyal interval separated into live, dead and unknown groupings

Fig 5b Numbers of total recoveries of *Lophelia pertusa* south and west of the Faroes (north of 60°N west of 7°W) for each 25m bathyal interval separated into live, dead and unknown groupings

Fig 5c Numbers of total recoveries of *Lophelia pertusa* in the northern part of the Rockall trough (between 56°N and 60°N) for each 25m bathyal interval separated into live, dead and unknown groupings

Fig 5d Numbers of total recoveries of *Lophelia pertusa* in the southern part of the Rockall trough (south of 56°N) for each 25m bathyal interval separated into live, dead and unknown groupings

Fig 6 Comparison of the percentage of total recoveries of *Lophelia pertusa* for each area with depth

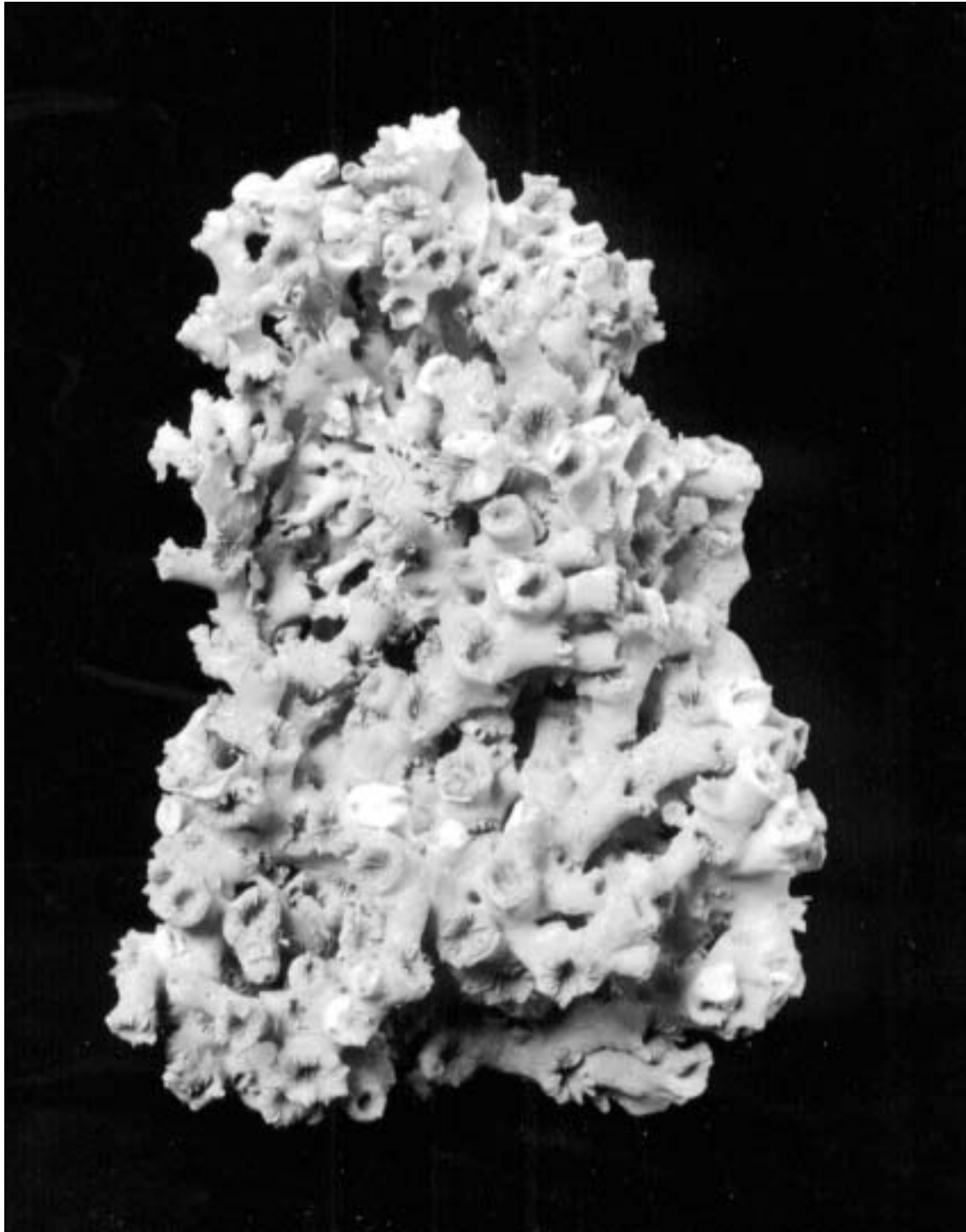


Figure 1 *Lophelia pertusa*

Photograph of a colony of *Lophelia pertusa* collected from the Wyville-Thomson Ridge (specimen 25cm tall)

BGS Line 79/14/34

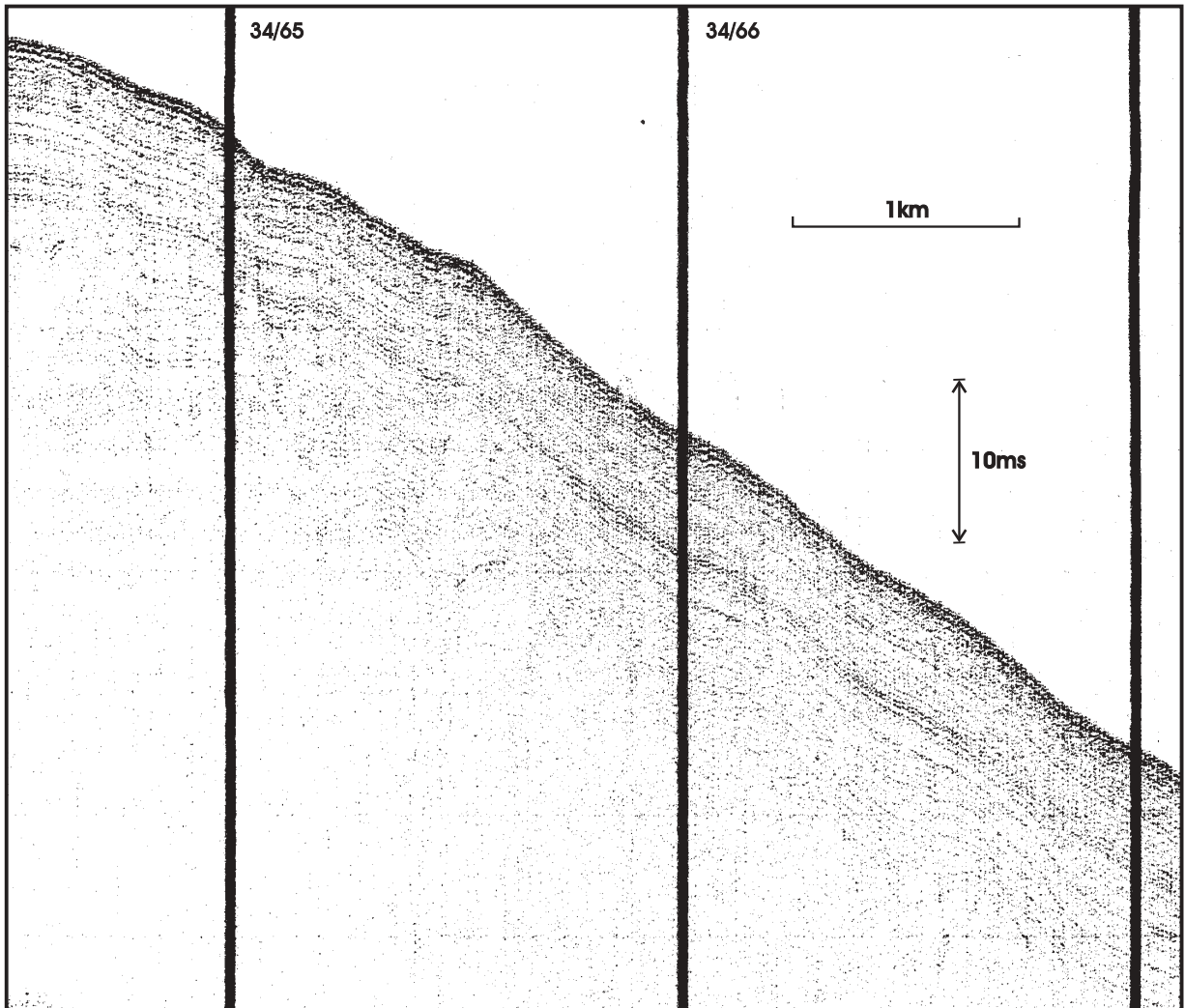
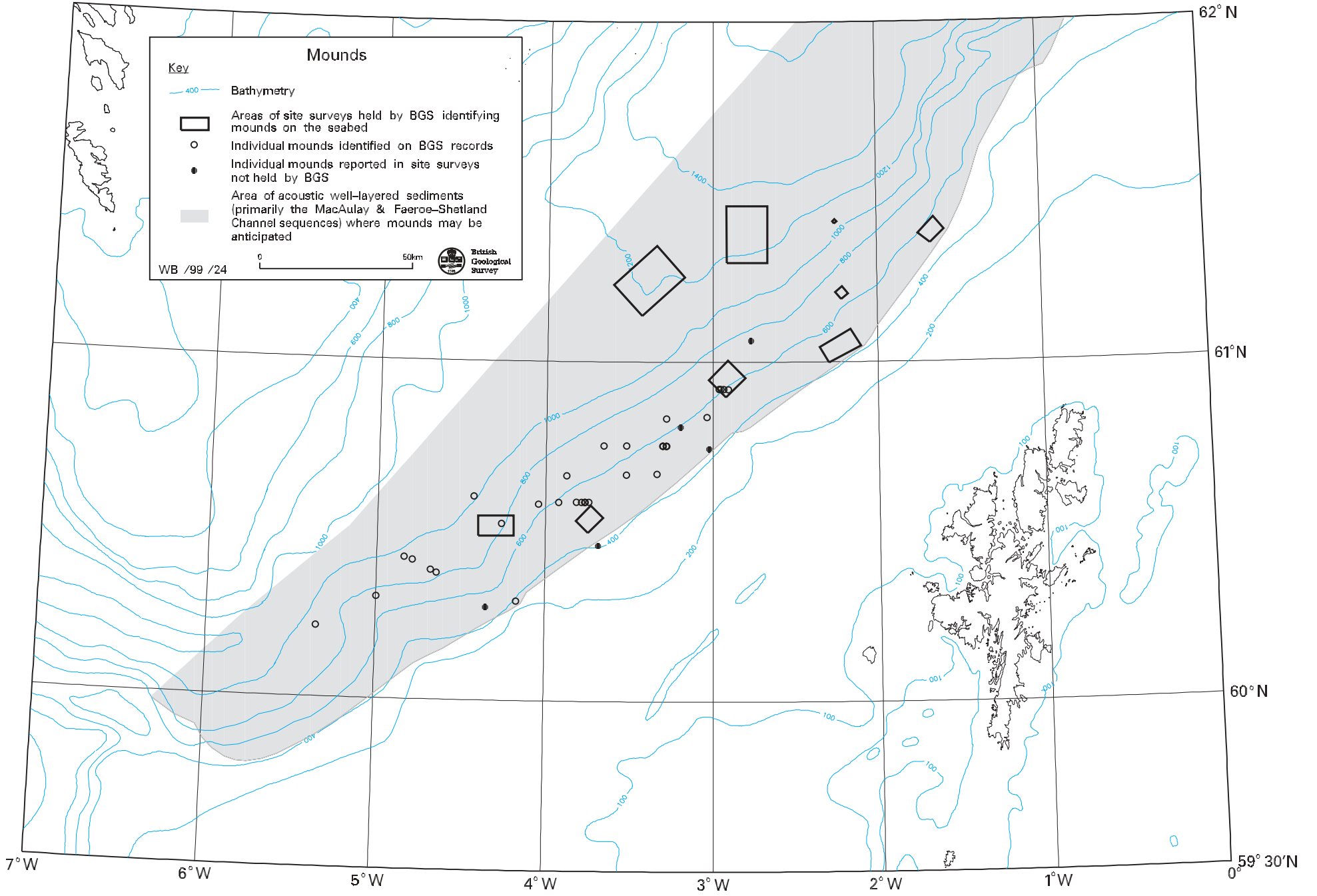


Fig 2 Seismic profile across a seabed mound in 700m water depth west of Shetland.

Fig 3 Map showing area of mounds West of Shetland (modified from Long 1998b)



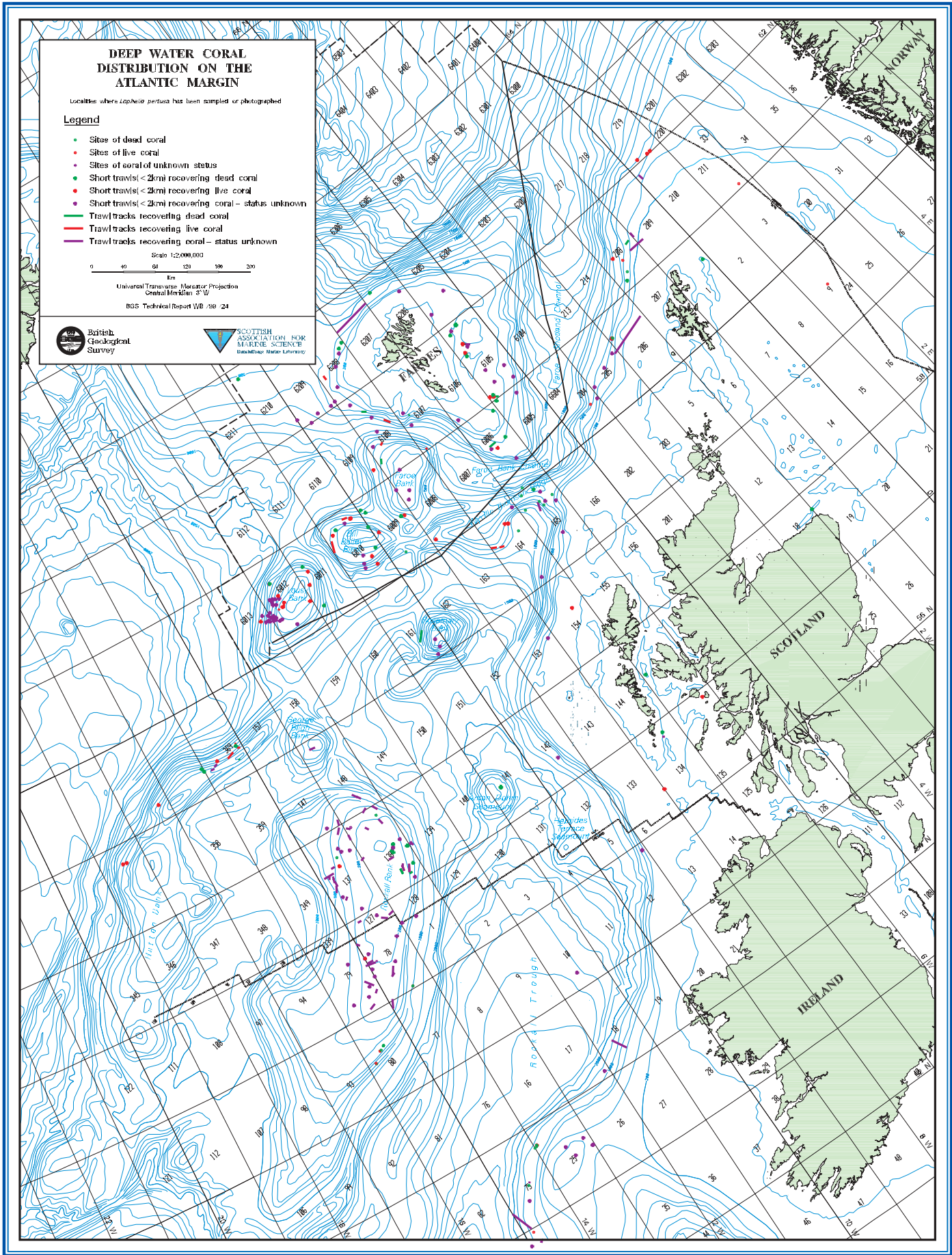


Fig 4 A4 copy of the enclosed map

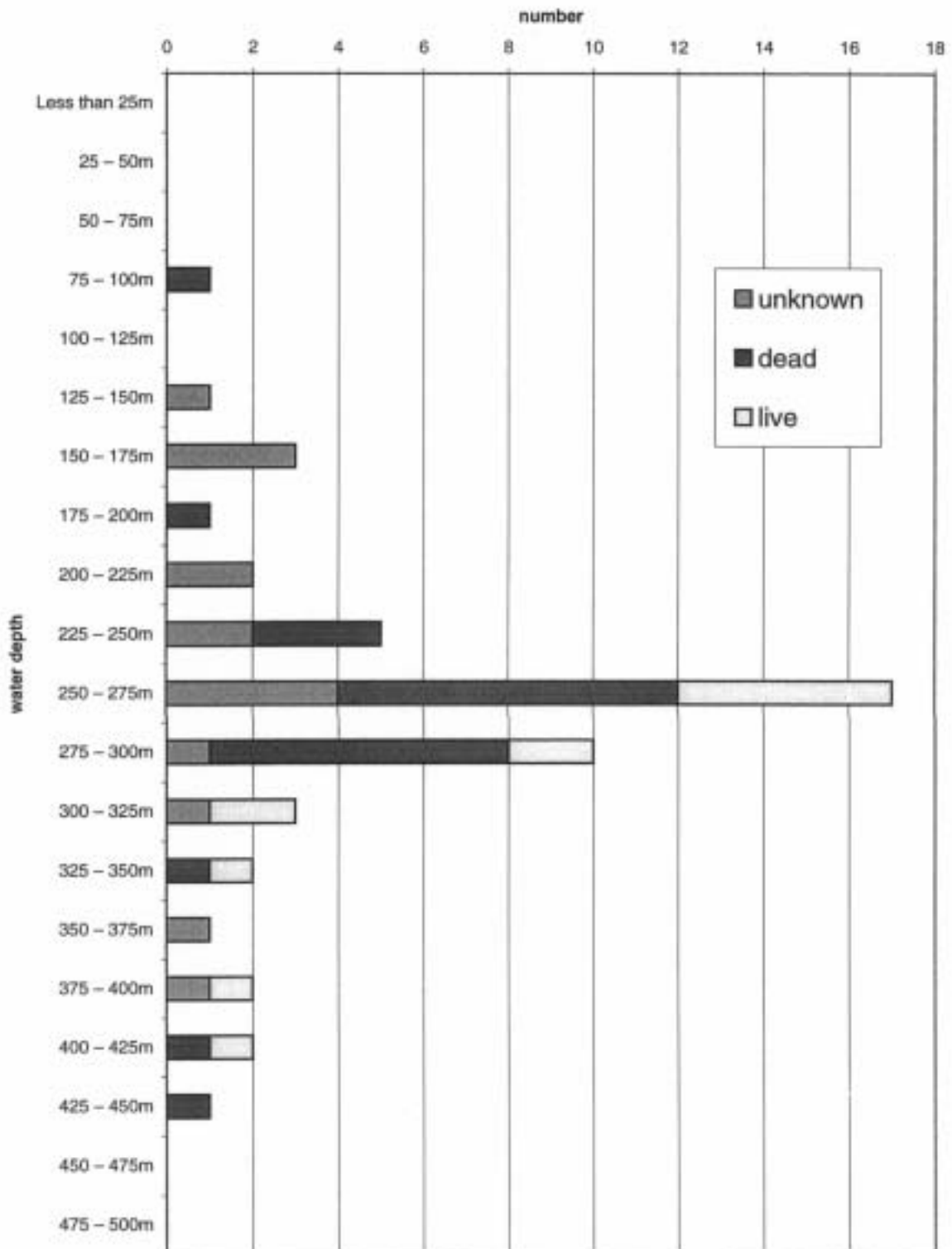


Fig 5a Numbers of total recoveries of *Lophelia pertusa* in the Faroe – Shetland Channel (north of 60°N east of 7°W) for each 25m bathyal interval separated into live, dead and unknown groupings

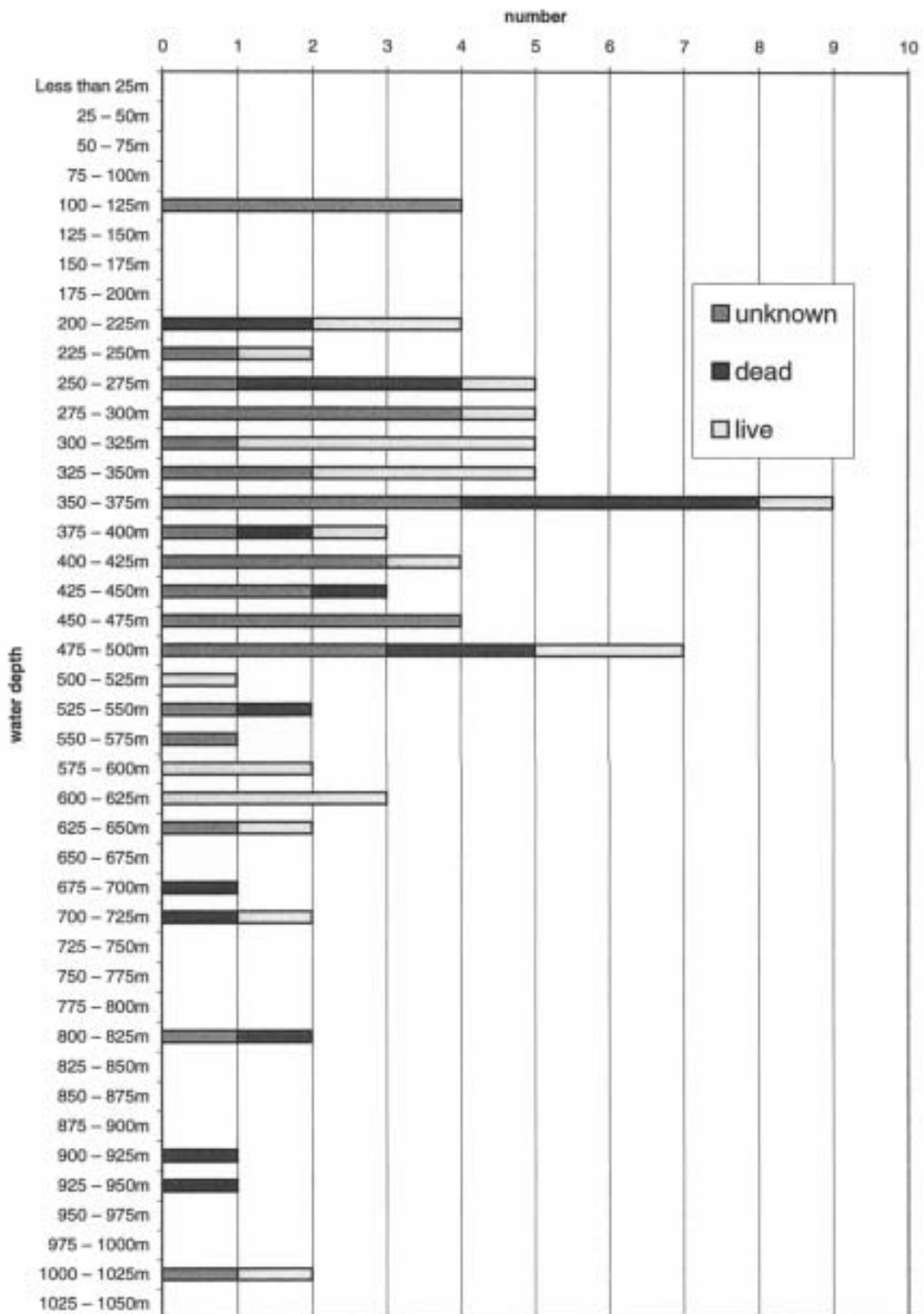


Fig 5b Numbers of total recoveries of *Lophelia pertusa* south and west of the Faroes (north of 60°N west of 7°W) for each 25m bathyal interval separated into live, dead and unknown groupings

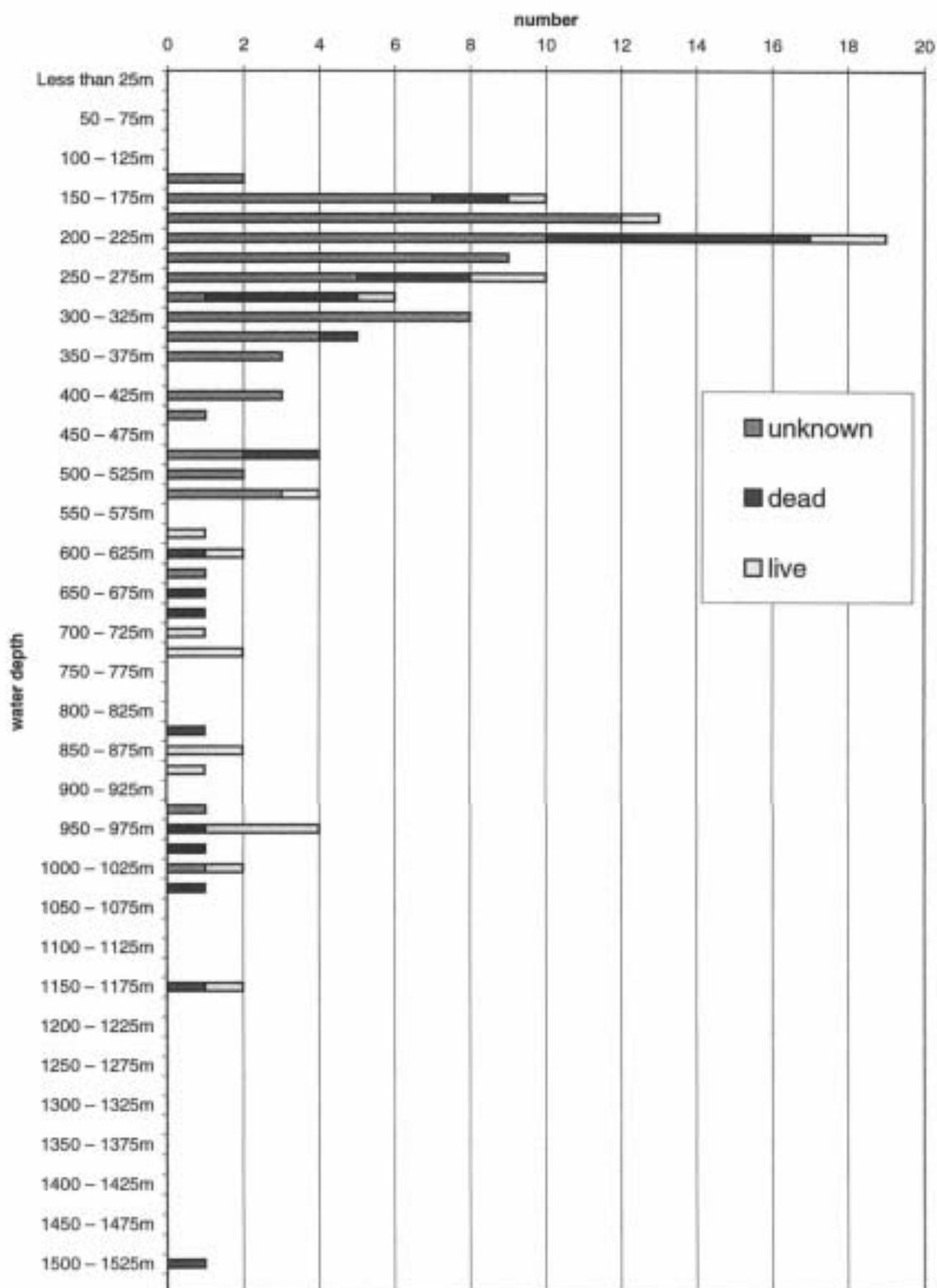


Fig 5c Numbers of total recoveries of *Lophelia pertusa* in the northern part of the Rockall trough (between 56°N and 60°N) for each 25m bathyal interval separated into live, dead and unknown groupings

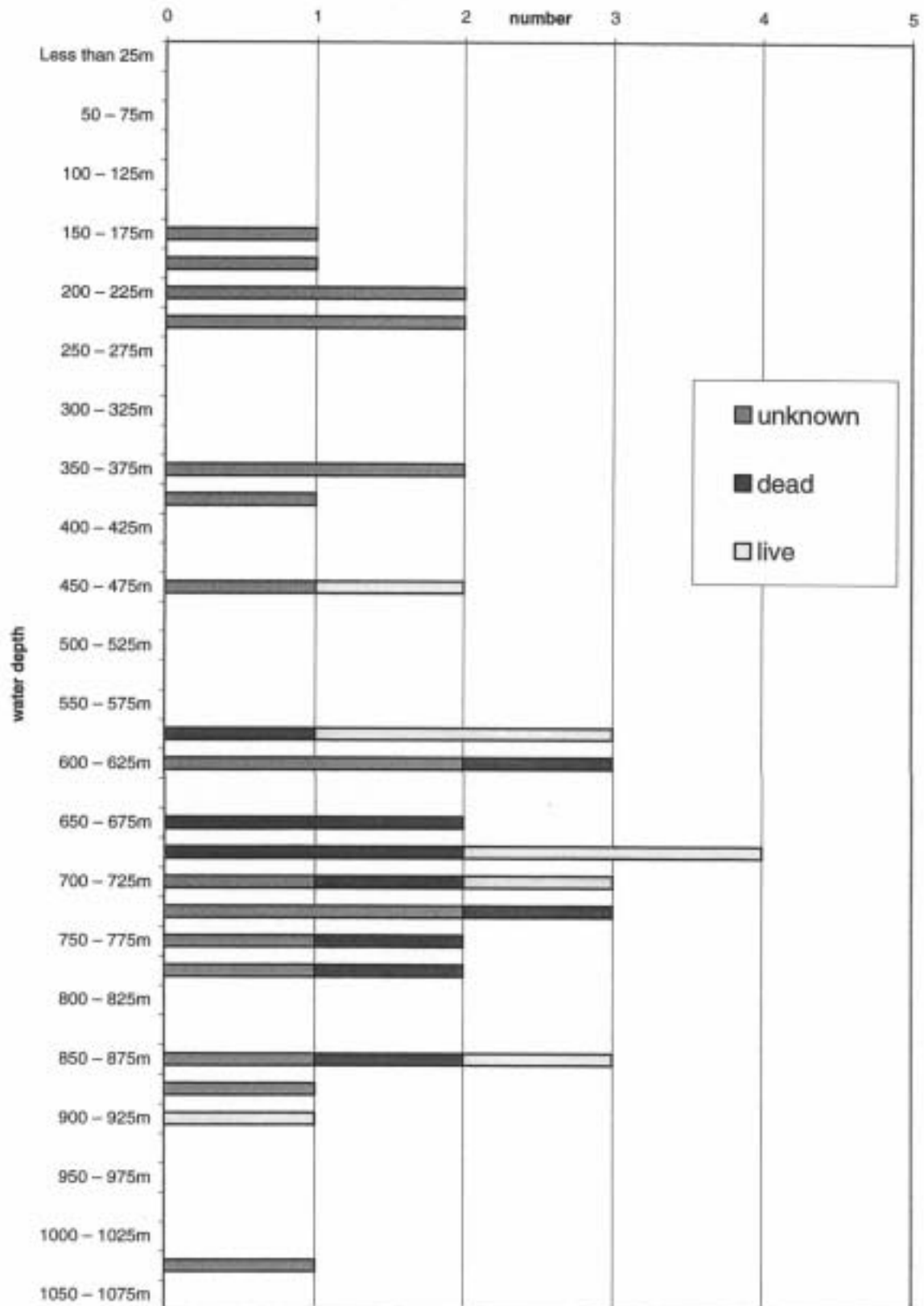


Fig 5d Numbers of total recoveries of *Lophelia pertusa* in the southern part of the Rockall trough (south of 56°N) for each 25m bathyal interval separated into live, dead and unknown groupings

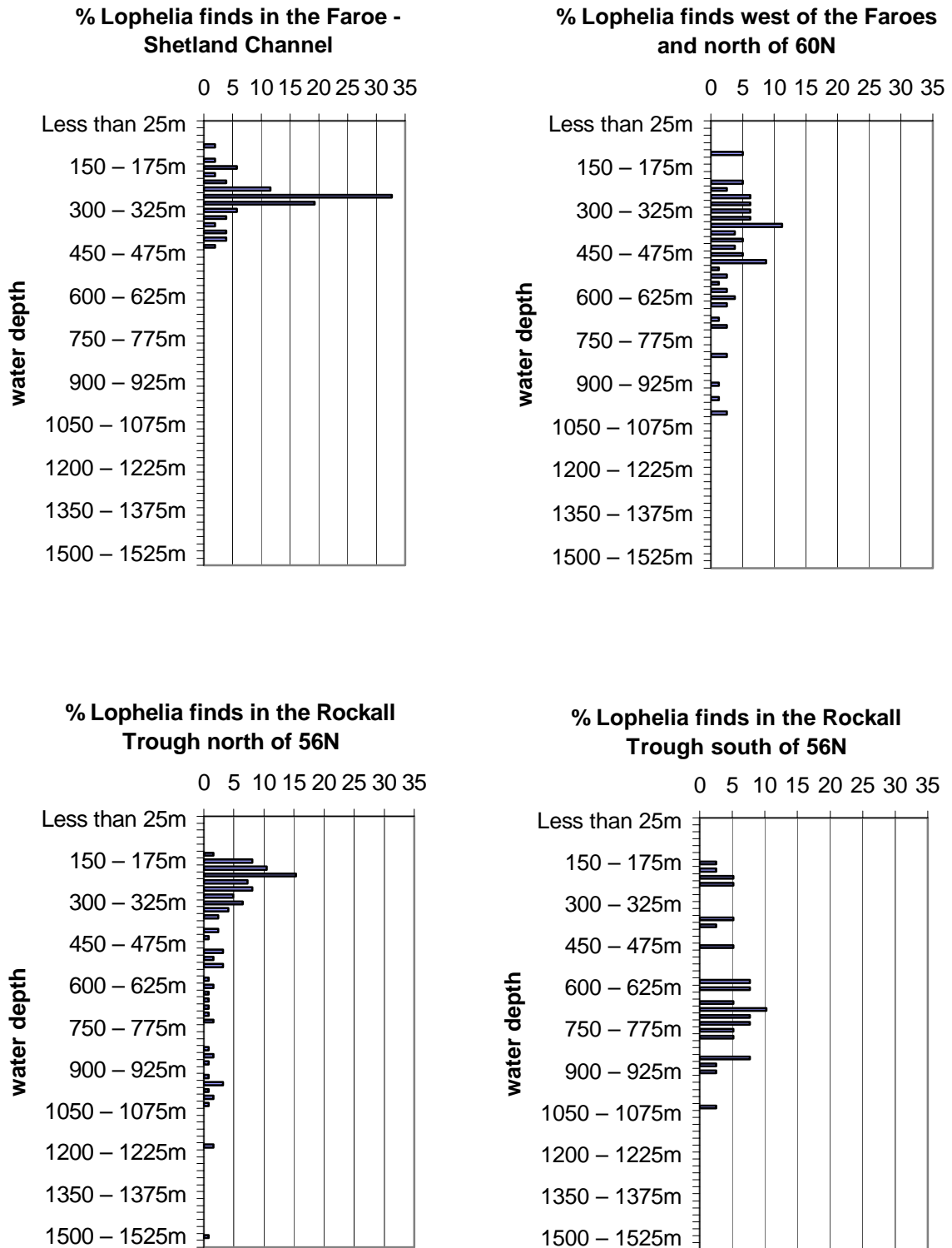


Fig 6 Comparison of the percentage of total recoveries of *Lophelia pertusa* for each area with depth

Appendix 1

Table of *Lophelia pertusa* occurrence

Listing of traverses where *Lophelia pertusa* has been recovered or recorded

| start of trawl | | | | | end of trawl | | | | | trawl length (kms) | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference | | |
|----------------|-------|-----------|---|-------|--------------|----|-----------|---|---|--------------------|-----------------|-------------------|----------------|-----------------|-------------------|-----------|-------------|---|
| Latitude | | Longitude | | | Latitude | | Longitude | | | | | | | | | | | |
| 62 | 00.00 | N | 9 | 00.00 | W | 62 | 30.00 | N | 8 | 20.00 | W | 65.66 | unknown | S. Poulsen | Trawl | 360 | | Frederiksen et al., 1992 |
| 62 | 18.50 | N | 8 | 52.20 | W | 62 | 21.80 | N | 8 | 52.70 | W | 6.15 | Live | T 89 | Bottom trawl | 370 | 535 | Frederiksen et al., 1992 |
| 62 | 30.70 | N | 8 | 10.80 | W | 62 | 30.70 | N | 8 | 11.00 | W | 0.17 | Dead | MH 88 | Triangular dredge | 358 | 345 | Frederiksen et al., 1992 |
| 62 | 45.00 | N | 7 | 00.00 | W | 62 | 40.00 | N | 8 | 00.00 | W | 52.03 | unknown | S. Poulsen | Bottom trawl | 500 | | Frederiksen et al., 1992 |
| 62 | 01.00 | N | 0 | 41.10 | E | 62 | 00.60 | N | 0 | 41.30 | E | 0.76 | Live | IOS | | 300 | | Wilson, 1984 |
| 62 | 02.13 | N | 0 | 18.97 | E | 62 | 02.06 | N | 0 | 18.99 | E | 0.13 | Live | SOC | WASP | 382 | 54501#1 | Bett, 1999 |
| 61 | 10.10 | N | 8 | 56.40 | W | 61 | 13.60 | N | 8 | 52.20 | W | 7.52 | Dead | MH 89 | Triangular dredge | 250 | 528 | Frederiksen et al., 1992 |
| 61 | 22.00 | N | 8 | 37.50 | W | 61 | 21.00 | N | 8 | 42.00 | W | 4.42 | Live | MLA | Bottom trawl | 274-384 | | Wilson, 1979 |
| 61 | 29.80 | N | 8 | 11.90 | W | 61 | 34.00 | N | 8 | 17.60 | W | 9.30 | Live | MH 89 | Bottom trawl | 364-446 | 531 | Frederiksen et al., 1992 |
| 61 | 45.00 | N | 8 | 31.00 | W | 61 | 47.10 | N | 8 | 36.80 | W | 6.43 | Dead | T 89 | Bottom trawl | 396 | 532 | Frederiksen et al., 1992 |
| 61 | 00.70 | N | 7 | 52.20 | W | 61 | 02.00 | N | 7 | 52.00 | W | 2.42 | Live | MLA | Trawl | 395 | | Wilson, 1979 |
| 61 | 26.70 | N | 7 | 43.40 | W | 61 | 26.40 | N | 7 | 45.90 | W | 2.29 | Dead | T89 | Bottom trawl | 260 | 529 | Frederiksen et al., 1992 |
| 61 | 01.80 | N | 5 | 51.60 | W | 61 | 00.30 | N | 5 | 48.20 | W | 4.14 | Dead | MH 89 | Bottom trawl | 290-300 | 488 | Frederiksen et al., 1992 |
| 61 | 02.30 | N | 5 | 54.00 | W | 61 | 02.90 | N | 5 | 53.90 | W | 1.12 | Dead | MH87 | Shell dredge | 280 | 47 | Frederiksen et al., 1992 |
| 61 | 02.30 | N | 5 | 54.30 | W | 61 | 02.30 | N | 5 | 53.30 | W | 0.90 | Live | MH 89 | Bottom trawl | 282 | 487 | Frederiksen et al., 1992 |
| 61 | 03.60 | N | 5 | 52.30 | W | 61 | 03.50 | N | 5 | 53.00 | W | 0.66 | Dead | MH 87 | Shell dredge | 287-400 | 46 | Frederiksen et al., 1992 |
| 61 | 03.70 | N | 5 | 58.80 | W | 61 | 03.40 | N | 5 | 58.20 | W | 0.78 | Live | MH 89 | Bottom trawl | 272 | 486 | Frederiksen et al., 1992 |
| 61 | 15.00 | N | 5 | 05.00 | W | 60 | 40.00 | N | 6 | 20.00 | W | 93.86 | unknown | J. Havgard | Trawl | 263 | | Frederiksen et al., 1992 |
| 61 | 36.80 | N | 5 | 47.90 | W | 61 | 36.90 | N | 5 | 48.40 | W | 0.48 | Dead | MH 88 | Triangular dredge | 243 | 156 | Frederiksen et al., 1992 |
| 61 | 37.60 | N | 5 | 47.80 | W | 61 | 37.60 | N | 5 | 48.10 | W | 0.27 | Live | T 89 | Triangular dredge | 251 | 550 | Frederiksen et al., 1992 |
| 61 | 43.40 | N | 5 | 43.40 | W | 61 | 43.30 | N | 5 | 43.00 | W | 0.40 | Live | MH 88 | Triangular dredge | 260 | 279 | Frederiksen et al., 1992 |
| 61 | 44.00 | N | 5 | 45.00 | W | 61 | 40.00 | N | 5 | 35.00 | W | 11.53 | unknown | K. Joensen | Trawl | 280-240 | | Frederiksen et al., 1992 |
| 61 | 53.27 | N | 5 | 50.28 | W | 61 | 53.06 | N | 5 | 49.37 | W | 0.89 | Dead | DGU | Rock dredge | 265-259 | 6, 87090133 | Chesher, 1987; Frederiksen et al., 1992 |
| 61 | 56.20 | N | 5 | 34.30 | W | 61 | 56.70 | N | 5 | 34.10 | W | 0.94 | Dead | MH 90 | Triangular dredge | 250 | 779 | Frederiksen et al., 1992 |
| 61 | 56.30 | N | 5 | 34.40 | W | 61 | 56.20 | N | 5 | 34.20 | W | 0.26 | Dead | MH 90 | Triangular dredge | 254 | 778 | Frederiksen et al., 1992 |
| 61 | 56.60 | N | 5 | 34.20 | W | 61 | 56.90 | N | 5 | 33.60 | W | 0.77 | Dead | HM 88 | Triangular dredge | 252 | 163 | Frederiksen et al., 1992 |

| start of trawl | | | | | | end of trawl | | | | | | trawl length (kms) | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference |
|----------------|-------|---|-----------|-------|---|--------------|-------|---|-----------|-------|---|--------------------|-----------------|-------------------|-------------------|-----------------|---------------|---|
| Latitude | | | Longitude | | | Latitude | | | Longitude | | | | | | | | | |
| 61 | 05.93 | N | 1 | 45.70 | W | 61 | 06.02 | N | 1 | 46.99 | W | 1.17 | Dead | HM 97 | Triangular dredge | 242 | | Roberts et al., in prep (Håkon Mosby cruise 13, 1997) |
| 61 | 24.90 | N | 1 | 14.80 | W | 61 | 25.80 | N | 1 | 07.50 | W | 6.71 | Dead | IOS | dredge | 190 | | Wilson 1979 |
| 61 | 20.00 | N | 0 | 51.00 | W | 61 | 20.00 | N | 1 | 16.00 | W | 22.30 | unknown | TC | Trawl | 219 | | Wilson 1979 |
| 61 | 25.00 | N | 0 | 59.00 | W | 61 | 29.00 | N | 0 | 59.00 | W | 7.43 | unknown | FLL | Trawl | 247-265 | | Wilson 1979 |
| 61 | 50.00 | N | 0 | 06.00 | E | 61 | 54.00 | N | 0 | 06.00 | E | 7.43 | unknown | FLL | Trawl | 238-282 | | Wilson 1979 |
| 60 | 25.46 | N | 13 | 15.32 | W | 60 | 24.88 | N | 13 | 14.31 | W | 1.43 | Live | DGU | Rock dredge | 730-679 | 61, 87090188 | Chesher, 1987; Frederiksen et al., 1992 |
| 60 | 19.42 | N | 12 | 02.51 | W | 60 | 19.68 | N | 12 | 02.80 | W | 0.55 | Live | DGU | Rock dredge | 500-450 | 119, 87100060 | Chesher, 1987; Frederiksen et al., 1992 |
| 60 | 26.07 | N | 12 | 44.01 | W | 60 | 25.37 | N | 12 | 46.28 | W | 2.46 | Live | DGU | Rock dredge | 300 | 65, 87090192 | Frederiksen et al., 1992 |
| 60 | 27.70 | N | 12 | 34.60 | W | 60 | 24.80 | N | 12 | 37.90 | W | 6.20 | Live | MH 89 | Bottom trawl | 336-272 | 521 | Frederiksen et al., 1992 |
| 60 | 44.10 | N | 12 | 37.20 | W | 60 | 43.70 | N | 12 | 37.50 | W | 0.79 | Dead | MH 89 | Shell dredge | 702-684 | 524 | Frederiksen et al., 1992 |
| 60 | 28.60 | N | 11 | 51.00 | W | 60 | 27.60 | N | 11 | 51.90 | W | 2.04 | Dead | MH 89 | Bottom trawl | 530 | 526 | Frederiksen et al., 1992 |
| 60 | 28.91 | N | 11 | 51.32 | W | 60 | 29.10 | N | 11 | 51.87 | W | 0.62 | Live | DGU | Rock dredge | 650-500 | 118, 87100059 | Chesher, 1987; Frederiksen et al., 1992 |
| 60 | 37.40 | N | 11 | 44.00 | W | 60 | 37.10 | N | 11 | 43.80 | W | 0.59 | Live | MH 89 | Shell dredge | 496 | 514 | Frederiksen et al., 1992 |
| 60 | 41.80 | N | 11 | 46.50 | W | 60 | 41.90 | N | 11 | 47.20 | W | 0.67 | Dead | MH 89 | Shell dredge | 700 | 515 | Frederiksen et al., 1992 |
| 60 | 22.30 | N | 10 | 18.40 | W | 60 | 22.40 | N | 10 | 18.70 | W | 0.33 | Live | MH 88 | Triangular dredge | 508 | 310 | Frederiksen et al., 1992 |
| 60 | 25.90 | N | 10 | 07.90 | W | 60 | 26.00 | N | 10 | 08.00 | W | 0.21 | Dead | MH 89 | Triangular dredge | 354 | 308 | Frederiksen et al., 1992 |
| 60 | 37.80 | N | 10 | 58.90 | W | 60 | 45.80 | N | 10 | 53.70 | W | 15.62 | Live | L 79 | Bottom trawl | 397-275 | 76 | Frederiksen et al., 1992 |
| 60 | 51.70 | N | 10 | 15.80 | W | 60 | 51.50 | N | 10 | 14.30 | W | 1.41 | Live | MH 88 | Triangular dredge | 631-610 | 316 | Frederiksen et al., 1992 |
| 60 | 51.80 | N | 10 | 14.00 | W | 60 | 51.60 | N | 10 | 14.00 | W | 0.37 | Live | MH 88 | Triangular dredge | 650-560 | 314 | Frederiksen et al., 1992 |
| 60 | 53.40 | N | 10 | 18.20 | W | 60 | 54.30 | N | 10 | 25.90 | W | 7.18 | Live | MH 89 | Bottom trawl | 649-621 | 527 | Frederiksen et al., 1992 |
| 60 | 33.00 | N | 9 | 52.49 | W | 60 | 33.02 | N | 9 | 52.58 | W | 0.09 | Live | DGU | Rock dredge | 322-300 | 122, 87100063 | Chesher, 1987; Frederiksen et al., 1992 |
| 60 | 33.70 | N | 9 | 15.20 | W | 60 | 33.70 | N | 9 | 14.30 | W | 0.82 | Dead | MH 88 | Triangular dredge | 210 | 322 | Frederiksen et al., 1992 |
| 60 | 33.80 | N | 9 | 15.20 | W | 60 | 33.80 | N | 9 | 15.00 | W | 0.18 | Dead | MH 88 | Triangular dredge | 220 | 323 | Frederiksen et al., 1992 |
| 60 | 35.00 | N | 9 | 10.00 | W | 60 | 25.00 | N | 10 | 10.00 | W | 58.08 | Live | J.Olsen | Bottom trawl | 338 | | Frederiksen et al., 1992 |
| 60 | 40.00 | N | 9 | 50.00 | W | 60 | 55.00 | N | 11 | 00.00 | W | 69.49 | Live | S.Poulsen | Bottom trawl | 580 | | Frederiksen et al., 1992 |
| 60 | 49.40 | N | 9 | 53.30 | W | 60 | 49.20 | N | 9 | 52.30 | W | 0.98 | Dead | MH 89 | Triangular dredge | 800 | 493 | Frederiksen et al., 1992 |
| 60 | 52.60 | N | 9 | 56.80 | W | 60 | 52.20 | N | 9 | 56.40 | W | 0.83 | Dead | MH 89 | Shell dredge | 900 | 492 | Frederiksen et al., 1992 |
| 60 | 07.30 | N | 8 | 54.00 | W | 60 | 07.50 | N | 8 | 53.90 | W | 0.38 | Live | MH 88 | Triangular dredge | 700-500 | 303 | Frederiksen et al., 1992 |

| start of trawl | | | | | | end of trawl | | | | | | trawl length (kms) | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference |
|----------------|-------|---|-----------|-------|---|--------------|-------|---|-----------|-------|---|--------------------|-----------------|-------------------|-------------------|-----------------|---------------|--|
| Latitude | | | Longitude | | | Latitude | | | Longitude | | | | | | | | | |
| 60 | 33.30 | N | 6 | 32.10 | W | 60 | 32.80 | N | 6 | 32.20 | W | 0.93 | Live | MH 87 | Shell dredge | 252 | 90 | Jensen & Frederiksen, 1992; Frederiksen et al., 1992 |
| 60 | 36.10 | N | 6 | 14.50 | W | 60 | 35.70 | N | 6 | 14.50 | W | 0.74 | Dead | MH88 | Triangular dredge | 285 | 287 | Frederiksen et al., 1992 |
| 60 | 37.23 | N | 6 | 29.48 | W | 60 | 36.88 | N | 6 | 40.61 | W | 10.18 | Dead | DGU | Rock dredge | 252-255 | 91, 87100029 | Chesher, 1987; Frederiksen et al., 1992 |
| 60 | 55.10 | N | 6 | 06.40 | W | 60 | 54.90 | N | 6 | 06.20 | W | 0.41 | Dead | MH 88 | Triangular dredge | 237 | 147 | Frederiksen et al., 1992 |
| 60 | 59.20 | N | 5 | 54.10 | W | 60 | 58.80 | N | 5 | 53.90 | W | 0.76 | Dead | MH 87 | Shell dredge | 290 | 49 | Frederiksen et al., 1992 |
| 60 | 33.70 | N | 3 | 05.00 | W | 60 | 42.00 | N | 2 | 05.00 | W | 56.84 | unknown | TC | Trawl | 228 | | Wilson 1979 |
| 60 | 42.83 | N | 2 | 54.45 | W | 60 | 42.80 | N | 2 | 54.14 | W | 0.29 | Dead | HM 97 | Triangular dredge | 288 | | Roberts et al., in prep (Håkon Mosby cruise 1997) |
| 60 | 43.19 | N | 2 | 55.79 | W | 60 | 42.71 | N | 2 | 54.44 | W | 1.52 | Live | HM 97 | Triangular dredge | 279-277 | | Roberts et al., in prep (Håkon Mosby cruise 1997) |
| 60 | 43.02 | N | 2 | 54.51 | W | 60 | 42.60 | N | 2 | 53.94 | W | 2.14 | dead | HM | Agassiz trawl | 296-268 | | Murray Roberts |
| 59 | 11.50 | N | 17 | 14.40 | W | 59 | 11.10 | N | 17 | 14.20 | W | 0.77 | Live | DGU | Rock dredge | 560-529 | 36, 87090163 | Chesher, 1987; Frederiksen et al., 1992 |
| 59 | 16.30 | N | 16 | 00.60 | W | 59 | 16.80 | N | 16 | 00.80 | W | 0.95 | Dead | DGU | Rock dredge | 497 | 32, 87090159 | Chesher, 1987; Frederiksen et al., 1992 |
| 59 | 19.00 | N | 16 | 02.00 | W | 59 | 18.70 | N | 16 | 02.00 | W | 0.56 | Dead | DGU | Rock dredge | 622-605 | 33, 87090160 | Chesher, 1987; Frederiksen et al., 1992 |
| 59 | 11.74 | N | 15 | 12.44 | W | 59 | 12.79 | N | 15 | 12.88 | W | 2.01 | Dead | DGU | Rock dredge | 1040-870 | 55, 87090182 | Chesher, 1987; Frederiksen et al., 1992 |
| 59 | 15.00 | N | 15 | 52.00 | W | 59 | 15.00 | N | 15 | 47.00 | W | 4.78 | unknown | FLL | Trawl | 494-512 | | Wilson 1979 |
| 59 | 16.00 | N | 15 | 46.00 | W | 59 | 17.00 | N | 15 | 41.00 | W | 5.13 | unknown | FLL | Trawl | 549-530 | | Wilson 1979 |
| 59 | 16.40 | N | 15 | 25.30 | W | 59 | 18.50 | N | 15 | 15.00 | W | 10.59 | Live | KT 98 | trawl | 500-650 | 40 | Roberts et al., in prep (Koralnes Trawler) |
| 59 | 18.48 | N | 15 | 39.54 | W | 59 | 18.40 | N | 15 | 38.67 | W | 0.84 | Live | DGU | Rock dredge | 730 | 51, 87090178 | Chesher, 1987; Frederiksen et al., 1992 |
| 59 | 19.75 | N | 15 | 07.60 | W | 59 | 19.16 | N | 15 | 03.87 | W | 3.73 | Live | DGU | Rock dredge | 747-673 | 54, 87090181 | Chesher, 1987; Frederiksen et al., 1992 |
| 59 | 21.57 | N | 15 | 08.04 | W | 59 | 20.94 | N | 15 | 07.72 | W | 1.21 | Dead | DGU | Rock dredge | 880-778 | 52, 87090179 | Chesher, 1987; Frederiksen et al., 1992 |
| 59 | 23.24 | N | 15 | 07.94 | W | 59 | 22.52 | N | 15 | 05.94 | W | 2.33 | Live | DGU | Rock dredge | 1065-977 | 53, 87090180 | Chesher, 1987; Frederiksen et al., 1992 |
| 59 | 00.00 | N | 14 | 00.00 | W | 59 | 30.00 | N | 18 | 00.00 | W | 236.39 | unknown | CC | | 457-604 | | Wilson 1979 |
| 59 | 02.13 | N | 10 | 16.76 | W | 59 | 02.82 | N | 10 | 18.14 | W | 1.84 | unknown | DGU | Rock dredge | 1048-978 | 114, 87100055 | Chesher, 1987; Frederiksen et al., 1992 |
| 59 | 16.00 | N | 10 | 29.00 | W | 59 | 22.00 | N | 10 | 18.00 | W | 15.30 | Dead | | | 671-704 | | Wilson, 1979 |

| start of trawl | | | | | | end of trawl | | | | | | trawl length (kms) | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference |
|----------------|-------|---|-----------|-------|---|--------------|-------|---|-----------|-------|---|--------------------|-----------------|-------------------|----------------|-----------------|---------------|---|
| Latitude | | | Longitude | | | Latitude | | | Longitude | | | | | | | | | |
| 59 | 38.00 | N | 7 | 50.00 | W | 59 | 37.00 | N | 7 | 44.00 | W | 5.94 | Live | MLA | Scraper trawl | 870 | S98-467 | Scotia S98-467 |
| 59 | 39.00 | N | 7 | 53.00 | W | 59 | 41.00 | N | 8 | 00.00 | W | 7.56 | Live | MLA | Scraper trawl | 856 | S98-466 | Scotia S98-466 |
| 59 | 47.65 | N | 7 | 22.14 | W | 59 | 47.67 | N | 7 | 22.17 | W | 0.05 | Live | SOC | WASP | 962 | 54565#1 | Bett, 1999 |
| 59 | 47.82 | N | 7 | 22.27 | W | 59 | 47.83 | N | 7 | 22.28 | W | 0.02 | Live | SOC | WASP | 962 | 54565#1 | Bett, 1999 |
| 59 | 49.12 | N | 7 | 26.56 | W | 59 | 48.71 | N | 7 | 25.56 | W | 1.21 | Live | SOC | WASP | 884-908 | 54630#1 | Bett, 1999 |
| 59 | 41.20 | N | 6 | 37.00 | W | 59 | 47.70 | N | 6 | 33.00 | W | 12.64 | unknown | FLL | Trawl | 476-417 | | Wilson, 1979 |
| 58 | 46.68 | N | 18 | 25.93 | W | 58 | 46.11 | N | 18 | 24.94 | W | 1.44 | Live | DGU | Rock dredge | 646-591 | 42, 87090169 | Chesher, 1987; Frederiksen et al., 1992 |
| 58 | 46.93 | N | 18 | 31.12 | W | 58 | 46.58 | N | 18 | 30.13 | W | 1.17 | Live | DGU | Rock dredge | 771-710 | 43, 87090170 | Chesher, 1987; Frederiksen et al., 1992 |
| 58 | 00.00 | N | 14 | 04.00 | W | 58 | 04.00 | N | 14 | 02.00 | W | 7.72 | unknown | FLL | Trawl | 256-265 | | Wilson, 1979 |
| 58 | 00.00 | N | 13 | 15.00 | W | 57 | 56.00 | N | 13 | 11.00 | W | 8.44 | unknown | MLA | Trawl | 229 | | Wilson 1979 |
| 58 | 10.00 | N | 13 | 25.00 | W | 58 | 13.50 | N | 13 | 30.00 | W | 8.17 | unknown | MLA | Trawl | 190-230 | | Wilson 1979 |
| 58 | 11.00 | N | 13 | 26.00 | W | 58 | 08.00 | N | 13 | 22.00 | W | 6.84 | unknown | MLA | Trawl | 366 | | Wilson 1979 |
| 58 | 53.50 | N | 13 | 39.00 | W | 58 | 54.00 | N | 13 | 47.00 | W | 7.78 | unknown | FLL | Trawl | 512-466 | | Wilson 1979 |
| 57 | 03.75 | N | 14 | 32.00 | W | 57 | 04.20 | N | 14 | 31.50 | W | 0.98 | unknown | IOS | submersible | 152 | | Wilson, 1979 |
| 57 | 16.00 | N | 14 | 40.00 | W | 57 | 14.00 | N | 14 | 44.00 | W | 5.51 | unknown | FLL | Trawl | 348-320 | | Wilson, 1979 |
| 57 | 26.00 | N | 14 | 45.00 | W | 57 | 21.50 | N | 14 | 49.00 | W | 9.32 | unknown | MLA | Trawl | 348 | | Wilson, 1979 |
| 57 | 28.00 | N | 14 | 45.00 | W | 57 | 31.00 | N | 14 | 44.00 | W | 5.69 | unknown | MLA | Trawl | 348 | | Wilson, 1979 |
| 57 | 29.00 | N | 14 | 44.00 | W | 57 | 25.00 | N | 14 | 44.00 | W | 7.47 | unknown | MLA | Trawl | 300 | | Wilson, 1979 |
| 57 | 32.50 | N | 14 | 43.00 | W | 57 | 30.50 | N | 14 | 44.00 | W | 3.87 | unknown | MLA | Trawl | 265 | | Wilson, 1979 |
| 57 | 33.50 | N | 14 | 47.00 | W | 57 | 31.75 | N | 14 | 49.00 | W | 3.83 | unknown | MLA | Trawl | 412 | | Wilson, 1979 |
| 57 | 34.00 | N | 14 | 40.00 | W | 57 | 34.00 | N | 14 | 54.00 | W | 14.04 | unknown | FLL | Trawl | 330-410 | | Wilson, 1979 |
| 57 | 36.00 | N | 14 | 30.92 | W | 57 | 36.50 | N | 14 | 28.20 | W | 2.88 | Dead | IOS | Rock dredge | 290 | | Wilson, 1979 |
| 57 | 36.60 | N | 14 | 29.10 | W | 57 | 35.70 | N | 14 | 29.20 | W | 1.68 | live | IOS | submersible | 256 | | Wilson, 1979 |
| 57 | 37.50 | N | 14 | 35.00 | W | 57 | 37.50 | N | 14 | 40.00 | W | 5.01 | unknown | MLA | Trawl | 329-348 | | Wilson, 1979 |
| 57 | 47.50 | N | 14 | 00.00 | W | 57 | 51.50 | N | 14 | 00.00 | W | 7.46 | unknown | FLL | Trawl | 132 | | Wilson, 1979 |
| 57 | 55.00 | N | 14 | 11.00 | W | 57 | 59.00 | N | 14 | 05.00 | W | 9.54 | unknown | FLL | Trawl | 219-247 | | Wilson, 1979 |
| 57 | 08.00 | N | 13 | 14.50 | W | 57 | 07.80 | N | 13 | 19.00 | W | 4.58 | Dead | IOS | Rock dredge | 269-234 | | Wilson, 1979 |
| 57 | 12.90 | N | 13 | 07.20 | W | 57 | 12.50 | N | 13 | 09.00 | W | 1.97 | Dead | IOS | Rock dredge | 245-265 | | Wilson, 1979 |
| 57 | 13.67 | N | 13 | 13.01 | W | 57 | 08.57 | N | 13 | 17.83 | W | 10.69 | Live | MLA | Trawl | 277-291 | | Shelton, 1980, Wilson, 1979 |
| 57 | 13.99 | N | 13 | 25.48 | W | 57 | 09.85 | N | 13 | 25.99 | W | 7.74 | Dead | MLA | Trawl | 217-220 | | Shelton, 1980, Wilson, 1979 |

| start of trawl | | | | | | end of trawl | | | | | | trawl length (kms) | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference |
|----------------|-------|---|-----------|-------|---|--------------|-------|---|-----------|-------|---|--------------------|-----------------|-------------------|----------------|-----------------|-----------------|-----------------------------|
| Latitude | | | Longitude | | | Latitude | | | Longitude | | | | | | | | | |
| 57 | 15.46 | N | 13 | 21.40 | W | 57 | 11.22 | N | 13 | 23.01 | W | 8.07 | Live | MLA | Trawl | 200 | | Shelton, 1980, Wilson, 1979 |
| 57 | 16.00 | N | 13 | 19.00 | W | 57 | 14.00 | N | 13 | 22.00 | W | 4.81 | unknown | MLA | Trawl | 220 | | Wilson, 1979 |
| 57 | 23.00 | N | 13 | 25.00 | W | 57 | 23.00 | N | 13 | 32.00 | W | 7.05 | unknown | FLL | Trawl | 210-187 | | Wilson, 1979 |
| 57 | 28.45 | N | 13 | 19.71 | W | 57 | 28.50 | N | 13 | 19.84 | W | 0.16 | Unknown | MLA | Video | 213-212 | | Shelton, 1980, Wilson, 1979 |
| 57 | 33.00 | N | 13 | 57.00 | W | 57 | 32.00 | N | 14 | 02.00 | W | 5.35 | unknown | FLL | Trawl | 137 | | Wilson, 1979 |
| 57 | 46.00 | N | 13 | 15.00 | W | 57 | 50.00 | N | 13 | 17.00 | W | 7.72 | unknown | FLL | Trawl | 182 | | Wilson, 1979 |
| 57 | 47.50 | N | 13 | 34.00 | W | 57 | 50.00 | N | 13 | 37.00 | W | 5.54 | unknown | FLL | Trawl | 150 | | Wilson, 1979 |
| 57 | 54.00 | N | 13 | 54.00 | W | 57 | 56.00 | N | 13 | 58.00 | W | 5.45 | unknown | MLA | Trawl | 201 | | Wilson, 1979 |
| 57 | 59.00 | N | 13 | 30.00 | W | 58 | 01.00 | N | 13 | 23.00 | W | 7.87 | unknown | FLL | Trawl | 183-205 | | Wilson, 1979 |
| 57 | 23.00 | N | 12 | 56.00 | W | 57 | 26.00 | N | 12 | 57.00 | W | 5.68 | unknown | MLA | Trawl | 318 | | Wilson, 1979 |
| 57 | 26.00 | N | 12 | 58.00 | W | 57 | 24.00 | N | 12 | 59.00 | W | 3.86 | unknown | MLA | Trawl | 457-366 | | Wilson, 1979 |
| 56 | 02.00 | N | 15 | 24.00 | W | 56 | 04.00 | N | 15 | 16.00 | W | 9.16 | unknown | FLL | Trawl | 274-271 | | Wilson, 1979 |
| 56 | 10.00 | N | 15 | 09.00 | W | 56 | 12.00 | N | 15 | 05.00 | W | 5.60 | unknown | FLL | Trawl | 247 | | Wilson, 1979 |
| 56 | 16.11 | N | 15 | 11.05 | W | 56 | 15.64 | N | 15 | 12.02 | W | 1.34 | unknown | DGR | Rock dredge | 154-192 | | Wilson, 1979 |
| 56 | 20.50 | N | 15 | 14.00 | W | 56 | 15.00 | N | 15 | 06.00 | W | 13.21 | unknown | MLA | Trawl | 205 | | Wilson, 1979 |
| 56 | 29.00 | N | 15 | 03.00 | W | 56 | 28.00 | N | 14 | 50.00 | W | 13.56 | unknown | MLA | Trawl | 229 | | Wilson, 1979 |
| 56 | 30.00 | N | 15 | 00.00 | W | 56 | 30.00 | N | 14 | 52.00 | W | 8.26 | unknown | MLA | Trawl | 185 | | Wilson, 1979 |
| 56 | 45.00 | N | 15 | 00.00 | W | 56 | 43.00 | N | 14 | 56.50 | W | 5.18 | unknown | IOS | submersible | 223 | | Wilson, 1979 |
| 56 | 01.00 | N | 14 | 55.00 | W | 55 | 55.00 | N | 15 | 00.00 | W | 12.37 | unknown | MLA | Trawl | 375 | | Wilson, 1979 |
| 56 | 15.50 | N | 14 | 37.00 | W | 56 | 14.00 | N | 14 | 42.00 | W | 5.90 | unknown | MLA | Trawl | 278 | | Wilson, 1979 |
| 56 | 20.00 | N | 14 | 34.00 | W | 56 | 15.00 | N | 14 | 40.00 | W | 11.22 | unknown | MLA | Trawl | 256 | | Wilson, 1979 |
| 56 | 29.00 | N | 14 | 48.00 | W | 56 | 28.00 | N | 14 | 49.00 | W | 2.13 | unknown | MLA | Trawl | 192 | | Wilson, 1979 |
| 56 | 34.00 | N | 14 | 58.90 | W | 56 | 33.50 | N | 14 | 59.60 | W | 1.18 | unknown | IOS | submersible | 200 | | Wilson, 1979 |
| 56 | 35.30 | N | 14 | 52.30 | W | 56 | 35.30 | N | 14 | 53.30 | W | 1.03 | unknown | IOS | submersible | 183 | | Wilson, 1979 |
| 56 | 49.50 | N | 14 | 10.00 | W | 56 | 52.00 | N | 14 | 17.00 | W | 8.54 | unknown | MLA | Trawl | 183 | | Wilson, 1979 |
| 56 | 52.00 | N | 14 | 00.00 | W | 56 | 51.00 | N | 14 | 07.00 | W | 7.39 | unknown | MLA | Trawl | 183 | | Wilson, 1979 |
| 56 | 57.00 | N | 14 | 45.00 | W | 56 | 57.00 | N | 14 | 40.00 | W | 5.10 | unknown | MLA | Trawl | 183 | | Wilson, 1979 |
| 56 | 49.55 | N | 7 | 24.60 | W | 56 | 48.55 | N | 7 | 21.50 | W | 3.66 | unknown | IGS | submersible | 170 | 56-8/31 (SH218) | Wilson, 1979 |
| 54 | 10.00 | N | 11 | 30.00 | W | 54 | 20.00 | N | 11 | 40.00 | W | 21.57 | unknown | | | 400-1000 | | Le Danois, 1948 |
| 53 | 00.00 | N | 14 | 50.00 | W | 53 | 15.00 | N | 15 | 00.00 | W | 30.20 | unknown | | | 500-1000 | | Le Danois, 1948 |

| start of trawl | | | | | | end of trawl | | | | | | trawl length (kms) | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference |
|----------------|-------|---|-----------|-------|---|--------------|-------|---|-----------|-------|---|--------------------|-----------------|-------------------|----------------|-----------------|---------------|----------------------------|
| Latitude | | | Longitude | | | Latitude | | | Longitude | | | | | | | | | |
| 53 | 27.36 | N | 14 | 26.12 | W | 53 | 28.28 | N | 14 | 24.79 | W | 2.27 | unknown | CH11/81 | dredge | 895-900 | C40 | Scoffin and Bowes 1988 |
| 53 | 26.98 | N | 13 | 02.10 | W | 53 | 27.00 | N | 13 | 03.20 | W | 1.22 | unknown | CH11/81 | dredge | 240-230 | C35 | Scoffin and Bowes 1988 |
| 53 | 27.04 | N | 13 | 01.76 | W | 53 | 27.26 | N | 13 | 01.87 | W | 0.43 | unknown | CH11/81 | TV | 240 | C35-C36 | Scoffin and Bowes 1988 |
| 53 | 27.19 | N | 13 | 24.24 | W | 53 | 27.07 | N | 13 | 25.90 | W | 1.86 | unknown | CH11/81 | dredge | 170 | C36 | Scoffin and Bowes 1988 |
| 53 | 34.58 | N | 13 | 08.10 | W | 53 | 34.52 | N | 13 | 06.86 | W | 1.38 | unknown | CH11/81 | dredge | 220-225 | C44 | Scoffin and Bowes 1988 |
| 53 | 35.35 | N | 13 | 29.84 | W | 53 | 35.65 | N | 13 | 29.61 | W | 0.62 | unknown | CH11/81 | TV | 220-225 | C43 | Scoffin and Bowes 1988 |
| 53 | 46.60 | N | 13 | 56.61 | W | 53 | 46.49 | N | 13 | 56.98 | W | 0.46 | live | TTR7 | dredge | 457 | TTR7-AT-41D | Wilson & Vina Herbon, 1998 |
| 52 | 49.92 | N | 15 | 00.19 | W | 52 | 49.56 | N | 14 | 58.83 | W | 1.68 | unknown | CH11/81 | dredge | 1035 | C17 | Scoffin and Bowes 1988 |
| 52 | 00.02 | N | 14 | 14.13 | W | 52 | 00.98 | N | 14 | 12.61 | W | 2.51 | unknown | CH11/81 | dredge | 350 | C8 | Scoffin and Bowes 1988 |
| 52 | 49.63 | N | 14 | 48.83 | W | 52 | 48.70 | N | 14 | 46.37 | W | 3.28 | unknown | CH11/81 | dredge | 690-535 | C18 | Scoffin and Bowes 1988 |
| 51 | 40.42 | N | 14 | 59.95 | W | 51 | 40.34 | N | 14 | 58.63 | W | 1.54 | live | CH11/81 | dredge | 875-845 | C5 | Scoffin and Bowes 1988 |
| 51 | 46.75 | N | 14 | 44.30 | W | 51 | 46.85 | N | 14 | 43.88 | W | 0.52 | unknown | CH11/81 | dredge | 475-470 | C6 | Scoffin and Bowes 1988 |
| 51 | 52.35 | N | 14 | 32.60 | W | 51 | 52.95 | N | 14 | 31.17 | W | 2.00 | unknown | CH11/81 | dredge | 370 | C7 | Scoffin and Bowes 1988 |

Listing of sites where *Lophelia pertusa* has been recovered or recorded

| Latitude | | | Longitude | | | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference |
|----------|-------|---|-----------|-------|---|-----------------|-------------------|----------------|-----------------|---------------|---|
| 62 | 07.00 | N | 10 | 00.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 62 | 52.00 | N | 10 | 39.00 | W | dead | L79 | Bottom trawl | 490 | 15 | Frederiksen et al. 1992 |
| 62 | 00.00 | N | 9 | 45.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 62 | 02.00 | N | 9 | 08.00 | W | unknown | J. Havgard | Bottom trawl | 376-470 | | Frederiksen et al., 1992 |
| 62 | 03.00 | N | 9 | 00.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 62 | 03.00 | N | 9 | 30.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 62 | 59.00 | N | 9 | 23.00 | W | dead | L79 | Bottom trawl | 483 | 94 | Frederiksen et al. 1992 |
| 62 | 10.00 | N | 8 | 45.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 62 | 22.00 | N | 8 | 30.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 62 | 28.00 | N | 8 | 15.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 62 | 33.00 | N | 8 | 03.00 | W | dead | L79 | Bottom trawl | 251 | 30 | Frederiksen et al. 1992 |
| 62 | 38.00 | N | 6 | 10.00 | W | unknown | CC | | 154 | | Wilson, 1979 |
| 62 | 49.00 | N | 6 | 46.00 | W | dead | L79 | Bottom trawl | 439 | 33 | Frederiksen et al. 1992 |
| 62 | 12.00 | N | 5 | 53.00 | W | unknown | CC | | 159 | | Wilson, 1979 |
| 62 | 20.00 | N | 5 | 18.00 | W | unknown | CC | | 166 | | Wilson, 1979 |
| 62 | 00.60 | N | 0 | 35.40 | E | live | MV Oil Challenger | Trawl | 300 | | John Hartley (pers comm) |
| 61 | 10.00 | N | 9 | 10.00 | W | live | J. Olsen | Trawl | 235 | | Frederiksen et al., 1992 |
| 61 | 00.00 | N | 8 | 40.00 | W | unknown | CC | | 101 | | Wilson, 1979 |
| 61 | 23.00 | N | 8 | 52.00 | W | unknown | IPM | | 250 | | Wilson, 1979 |
| 61 | 30.00 | N | 8 | 35.00 | W | unknown | P.Mikkelsen | Trawl | | | Frederiksen et al., 1992 |
| 61 | 40.00 | N | 8 | 30.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 61 | 55.00 | N | 8 | 45.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 61 | 20.00 | N | 7 | 50.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 61 | 30.00 | N | 7 | 50.00 | W | unknown | S.Poulsen | Bottom trawl | 250-300 | | Frederiksen et al., 1992 |
| 61 | 04.00 | N | 6 | 53.00 | W | unknown | CC | | 146 | | Wilson, 1979 |
| 61 | 05.00 | N | 5 | 15.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 61 | 10.00 | N | 5 | 40.00 | W | unknown | MS06 | | 280 | 64 | Jungerson, 1916; Frederiksen et al., 1992 |
| 61 | 15.00 | N | 5 | 15.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 61 | 20.00 | N | 5 | 40.00 | W | unknown | | Bottom trawl | 300 | | Frederiksen et al., 1992 |

| Latitude | | | Longitude | | | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference |
|----------|-------|---|-----------|-------|---|-----------------|-------------------|-------------------|-----------------|---------------|------------------------------------|
| 61 | 35.00 | N | 5 | 49.00 | W | dead | L79 | Bottom trawl | 256 | 51 | Frederiksen et al. 1992 |
| 61 | 40.00 | N | 5 | 40.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 61 | 43.20 | N | 5 | 42.80 | W | dead | V90 | Triangular dredge | 260 | 620 | Frederiksen et al. 1992 |
| 61 | 43.40 | N | 5 | 43.40 | W | live | MH | Triangular dredge | 260 | 279 | Jensen & Frederiksen, 1992 |
| 61 | 55.00 | N | 5 | 45.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 61 | 10.43 | N | 1 | 38.12 | W | dead | SOC | Box corer | 248 | 53796#3 | Bett 1997, Bett (pers comm) |
| 61 | 18.23 | N | 1 | 32.09 | W | live | SOC | Day grab | 331 | 53797#5 | Bett 1997, Bett (pers comm) |
| 61 | 23.39 | N | 1 | 41.68 | W | live | SOC | WASP | | | Bett 1997, Bett (pers comm) |
| 61 | 03.25 | N | 1 | 40.07 | E | live | Shell | Brent Spar | 140 | | Ali Onder (pers comm) |
| 60 | 22.00 | N | 13 | 04.00 | W | unknown | MAF | Trawl | 412 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 23.00 | N | 13 | 05.00 | W | unknown | CC | | 465 | | Wilson, 1979 |
| 60 | 23.00 | N | 13 | 09.00 | W | unknown | MAF | Trawl | 530 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 24.00 | N | 13 | 00.00 | W | unknown | MAF | Trawl | 357 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 26.00 | N | 13 | 02.00 | W | unknown | MAF | Trawl | 484 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 28.00 | N | 13 | 09.00 | W | unknown | DHI | | 464 | | Wilson, 1979 |
| 60 | 11.00 | N | 12 | 34.00 | W | unknown | IPM | | 550 | | Wilson, 1979 |
| 60 | 19.00 | N | 12 | 48.00 | W | unknown | MAF | Trawl | 247 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 19.00 | N | 12 | 52.00 | W | unknown | MAF | Trawl | 284 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 21.00 | N | 12 | 59.00 | W | unknown | MAF | Bottom trawl | 326 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 21.00 | N | 12 | 56.00 | W | unknown | MAF | Trawl | 278 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 22.00 | N | 12 | 54.00 | W | unknown | MAF | Trawl | 284 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 22.00 | N | 12 | 58.00 | W | unknown | MAF | Trawl | 302 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 24.00 | N | 12 | 56.00 | W | unknown | MAF | Trawl | 357 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 26.00 | N | 12 | 39.00 | W | live | FLL | Trawl | 247-197 | | Frederiksen et al., 1992 |
| 60 | 27.00 | N | 12 | 58.00 | W | unknown | MAF | Trawl | 446 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 28.00 | N | 12 | 34.00 | W | live | FLL | Trawl | 234-302 | | Frederiksen et al., 1992 |
| 60 | 29.50 | N | 12 | 45.00 | W | unknown | MAF | Trawl | 412 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 30.50 | N | 12 | 49.00 | W | unknown | MAF | Trawl | 457 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 32.00 | N | 12 | 37.00 | W | unknown | MAF | Trawl | 375 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 32.50 | N | 12 | 48.00 | W | unknown | MAF | Trawl | 452 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 33.00 | N | 12 | 42.00 | W | unknown | MAF | Trawl | 448 | | Wilson, 1979; Pawsey & Davis, 1924 |

| Latitude | | | Longitude | | | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference |
|----------|-------|---|-----------|-------|---|-----------------|-------------------|---------------------|-----------------|--------------------|--|
| 60 | 34.00 | N | 12 | 45.00 | W | unknown | CC | | 487 | | Wilson, 1979 |
| 60 | 34.00 | N | 12 | 36.00 | W | live | FLL | Trawl | 301-338 | | Frederiksen et al., 1992 |
| 60 | 34.50 | N | 12 | 49.00 | W | unknown | MAF | Trawl | 485 | | Wilson, 1979; Pawsey & Davis, 1924 |
| 60 | 44.00 | N | 12 | 38.00 | W | unknown | IPM | | 640 | | Wilson, 1979 |
| 60 | 12.00 | N | 11 | 50.00 | W | dead | L79 | Bottom trawl | 432 | 73 | Frederiksen et al. 1992 |
| 60 | 16.00 | N | 10 | 18.00 | W | live | WH 74 | | 1004-1020 | 897-174 | Zibrowius, 1980 |
| 60 | 18.00 | N | 10 | 35.00 | W | unknown | IPM | | 1000 | | Wilson, 1979 |
| 60 | 21.00 | N | 10 | 33.00 | W | unknown | IPM | | 800 | | Wilson, 1979 |
| 60 | 26.00 | N | 10 | 28.00 | W | unknown | IPM | | 360 | | Wilson, 1979 |
| 60 | 40.30 | N | 10 | 00.90 | W | dead | V90 | Triangular dredge | 400-320 | 588 | Frederiksen et al. 1992 |
| 60 | 48.50 | N | 10 | 48.00 | W | live | J. Olsen | Bottom trawl | 278 | | Frederiksen et al., 1992 |
| 60 | 50.60 | N | 10 | 40.70 | W | dead | V90 | Triangular dredge | 350 | 594 | Frederiksen et al. 1992 |
| 60 | 51.00 | N | 10 | 25.00 | W | unknown | IPM | | 340 | | Wilson, 1979 |
| 60 | 12.00 | N | 9 | 37.00 | W | dead | SMBA | Smith McIntyre Grab | 950 | 95 | SMBA cruise 10/76 |
| 60 | 33.00 | N | 9 | 10.00 | W | live | J. Olsen | Trawl | 216 | | Frederiksen et al., 1992 |
| 60 | 50.00 | N | 9 | 00.00 | W | unknown | CC | | 102 | | Wilson, 1979 |
| 60 | 40.00 | N | 8 | 53.00 | W | unknown | CC | | 123 | | Wilson, 1979 |
| 60 | 45.00 | N | 8 | 45.00 | W | unknown | CC | | 110 | | Wilson, 1979 |
| 60 | 01.38 | N | 6 | 38.29 | W | dead | BGS | vibrocore | 400 | 60-07/12 | |
| 60 | 20.00 | N | 6 | 20.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 60 | 35.00 | N | 6 | 40.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 60 | 55.00 | N | 5 | 25.00 | W | unknown | P. Mikklesen | Bottom trawl | - | | Frederiksen et al., 1992 |
| 60 | 17.67 | N | 4 | 15.01 | W | live | BP | ROV | 400 | Tape BP/96/KS/0044 | Hurtside wreck |
| 60 | 18.00 | N | 4 | 03.00 | W | unknown | KC | | 174-256 | | Wilson, 1979 |
| 60 | 25.00 | N | 3 | 56.00 | W | unknown | KC | | 384 | | Wilson, 1979 |
| 60 | 31.00 | N | 3 | 29.00 | W | unknown | DHI, AHO | | 368 | | Wilson, 1979 |
| 60 | 35.00 | N | 3 | 08.00 | W | unknown | KC | | 220 | | Wilson, 1979 |
| 60 | 42.60 | N | 2 | 55.50 | W | unknown | | | | | L.Bullough pers comm |
| 60 | 42.82 | N | 2 | 54.48 | W | dead | HM 13/97 | Triangular dredge | 270 | | Roberts et al., in prep (Håkon Mosby cruise, 1997) |
| 60 | 42.81 | N | 2 | 54.51 | W | dead | HM 13/97 | Van Veen grab | 278 | | Roberts et al., in prep (Håkon Mosby cruise, 1997) |
| 60 | 42.75 | N | 0 | 08.31 | W | dead | BGS | cone dredge | 92 | 60-01/23 | BGS core descriptions |

| Latitude | | | Longitude | | | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference |
|----------|-------|---|-----------|-------|---|-----------------|-----------------------|------------------|-----------------|---------------|-----------------------------------|
| 59 | 06.00 | N | 10 | 10.00 | W | unknown | MRD | Dredge | 630 | | Wilson, 1979 |
| 59 | 12.00 | N | 10 | 10.00 | W | unknown | MRD | Dredge | 500 | | Wilson, 1979 |
| 59 | 05.00 | N | 7 | 28.00 | W | unknown | I, CC | | 219 | | Wilson, 1979 |
| 59 | 39.58 | N | 7 | 16.51 | W | dead | BGS | vibrocore | 1035 | 59-08/49 | BGS core descriptions |
| 59 | 55.00 | N | 7 | 05.00 | W | unknown | MRD | Dredge | 930 | | Wilson, 1979 |
| 59 | 21.00 | N | 6 | 30.00 | W | unknown | CC | | 170 | | Wilson, 1979 |
| 59 | 41.00 | N | 6 | 12.00 | W | unknown | KC | | 216 | | Wilson, 1979 |
| 59 | 43.40 | N | 6 | 28.90 | W | dead | BGS | vibrocoring | 282 | 59-07/293 | Long, 1998; BGS core descriptions |
| 59 | 45.00 | N | 6 | 24.00 | W | unknown | KC | | 229 | | Wilson, 1979 |
| 59 | 45.70 | N | 6 | 11.20 | W | dead | BGS | vibrocoring | 341 | 59-07/284 | BGS core descriptions |
| 59 | 47.00 | N | 6 | 30.85 | W | dead | BGS | shipek grab | 274 | 59-07/271 | BGS core descriptions |
| 59 | 47.96 | N | 6 | 53.09 | W | dead | SOC | Megacoring | 996 | 54567#4 | Bett, 1999 |
| 59 | 52.00 | N | 6 | 22.00 | W | unknown | WH 74 | | 420-675 | | Zibrowius, 1976 in Wilson, 1979 |
| 59 | 56.00 | N | 6 | 27.00 | W | dead | HMS Porcupine in 1869 | | 664 | | Zibrowius, 1980 |
| 59 | 57.48 | N | 6 | 45.17 | W | dead | BGS | vibrocore | 493 | 59-07/342 | BGS core descriptions |
| 59 | 32.78 | N | 1 | 32.23 | E | live | SAMS | Beryl A | 117 | | Murray Roberts (pers comm) |
| 58 | 02.50 | N | 14 | 19.00 | W | unknown | IPM | Trawl | 300 | | Wilson, 1979 |
| 58 | 29.00 | N | 8 | 08.00 | W | unknown | CC | | 183 | | Wilson, 1979 |
| 58 | 36.00 | N | 7 | 20.00 | W | live | HMS Lightning in 1868 | | 969 | | Carpenter, 1869; Zibrowius, 1980 |
| 57 | 17.00 | N | 14 | 45.00 | W | unknown | IPM | Trawl | 300 | | Wilson, 1979 |
| 57 | 36.65 | N | 14 | 29.69 | W | live | IOS | submersible | 256 | | Wilson, 1979b |
| 57 | 42.00 | N | 14 | 08.00 | W | unknown | IPM | Trawl | 170 | | Wilson, 1979 |
| 57 | 42.10 | N | 14 | 26.80 | W | dead | IOS | grab | 275 | | Wilson, 1979 |
| 57 | 44.00 | N | 14 | 18.00 | W | unknown | | | 240 | | Dollfus, 1924 |
| 57 | 47.00 | N | 14 | 20.00 | W | unknown | CC | | 232 | | Wilson, 1979 |
| 57 | 04.00 | N | 13 | 15.00 | W | unknown | MLA | Trawl (circular) | 403 | | Wilson, 1979 |
| 57 | 24.60 | N | 13 | 03.20 | W | dead | MLA | Rock dredge | 288 | | Wilson, 1979, Shelton, 1980 |
| 57 | 25.70 | N | 13 | 22.37 | W | dead | MLA | Dredge | 206 | | Shelton, 1980 |
| 57 | 27.20 | N | 13 | 22.91 | W | dead | MLA | Dredge | 200 | | Shelton, 1980 |
| 57 | 30.34 | N | 13 | 17.40 | W | dead | MLA | Dredge | 220 | | Shelton, 1980 |

| Latitude | | | Longitude | | | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference |
|----------|-------|---|-----------|-------|---|-----------------|-------------------|------------------|-----------------|---------------|------------------------------------|
| 57 | 30.42 | N | 13 | 17.40 | W | dead | MLA | Rock dredge | 220 | | Wilson, 1979 |
| 57 | 31.00 | N | 13 | 07.00 | W | unknown | IPM | Trawl | 250 | | Wilson, 1979 |
| 57 | 53.18 | N | 13 | 16.25 | W | dead | IOS | grab | 200 | | Wilson, 1979 |
| 57 | 54.90 | N | 13 | 52.30 | W | unknown | IOS | submersible | 158 | | Wilson, 1979 |
| 57 | 24.00 | N | 10 | 45.00 | W | dead | EJJ | dredge | 1500 | | Wilson, 1979 |
| 57 | 19.00 | N | 9 | 25.00 | W | unknown | CC | | 497 | | Wilson, 1979 |
| 57 | 30.00 | N | 6 | 55.00 | W | dead | | Trawl | 145-190 | | Gosse 1860, Wilson, 1979c |
| 57 | 47.00 | N | 2 | 00.00 | W | dead | DAK | trawl | 150 | | Wilson, 1979 |
| 56 | 10.00 | N | 15 | 18.00 | W | unknown | IPM | Trawl | 225 | | Wilson, 1979 |
| 56 | 10.00 | N | 15 | 39.00 | W | unknown | IPM | Trawl | 300 | | Wilson, 1979 |
| 56 | 20.00 | N | 15 | 00.00 | W | unknown | IPM | Trawl | 220 | | Wilson, 1979 |
| 56 | 36.00 | N | 15 | 21.00 | W | unknown | IPM | Trawl | 350 | | Wilson, 1979 |
| 56 | 01.63 | N | 14 | 25.46 | W | live | BGS | gravity core | 1191 | 78/28/002 | Hitchen & Cavill, 1998 |
| 56 | 01.63 | N | 14 | 25.44 | W | dead | BGS | gravity core | 1190 | 78/28/003 | Hitchen & Cavill, 1998 |
| 56 | 22.00 | N | 14 | 29.00 | W | unknown | IPM | Trawl | 300 | | Wilson, 1979 |
| 56 | 25.00 | N | 14 | 58.00 | W | unknown | IPM | Trawl | 215 | | Wilson, 1979 |
| 56 | 33.60 | N | 14 | 59.40 | W | live | IOS | submersible | 183 | | Wilson, 1979b |
| 56 | 33.80 | N | 14 | 59.10 | W | live | IOS | submersible | 200 | | Wilson, 1979b |
| 56 | 36.00 | N | 14 | 12.00 | W | unknown | MLA | Trawl (circular) | 238 | | Wilson, 1979 |
| 56 | 55.00 | N | 14 | 20.00 | W | unknown | CC | | 182 | | Wilson, 1979 |
| 56 | 41.00 | N | 13 | 39.00 | W | unknown | | | 300 | | Porcupine, 1869 in Zibrowius, 1980 |
| 56 | 42.00 | N | 13 | 58.00 | W | unknown | IPM | Trawl | 300 | | Wilson, 1979 |
| 56 | 20.00 | N | 8 | 00.00 | W | live | | | | | SMBA Stanton Bank sample |
| 56 | 52.00 | N | 7 | 21.00 | W | dead | IOS | dredge | 201 | | Wilson, 1979 |
| 56 | 55.00 | N | 6 | 15.00 | W | live | | Trawl | 150 | | Fleming 1846, Wilson, 1979c |
| 55 | 28.34 | N | 15 | 49.73 | W | dead | TTR7 | gravity core | 870 | TTR7-AT-68G | Wilson & Vina Herbon, 1998 |
| 55 | 28.78 | N | 15 | 50.07 | W | live | TTR7 | gravity core | 684 | TTR7-AT-67G | Wilson & Vina Herbon, 1998 |
| 55 | 34.64 | N | 15 | 38.67 | W | live | TTR7 | gravity core | 598 | TTR7-AT-56C | Wilson & Vina Herbon, 1998 |
| 55 | 34.65 | N | 15 | 38.67 | W | live | TTR7 | Kastencorer | 590 | TTR7-AT-60K | Wilson & Vina Herbon, 1998 |
| 55 | 35.00 | N | 15 | 37.23 | W | dead | TTR7 | gravity core | 698 | TTR7-AT-58G | Wilson & Vina Herbon, 1998 |
| 55 | 36.61 | N | 15 | 32.25 | W | dead | TTR7 | gravity core | 657 | TTR7-AT-63G | Wilson & Vina Herbon, 1998 |

| Latitude | | | Longitude | | | status of coral | collected by whom | equipment used | water depth (m) | sample number | reference |
|----------|-------|---|-----------|-------|---|-----------------|-------------------|--------------------------------|-----------------|-----------------|----------------------------|
| 55 | 36.75 | N | 15 | 31.88 | W | dead | TTR7 | Kastencorer | 594 | TTR7-AT-61K | Wilson & Vina Herbon, 1998 |
| 55 | 36.79 | N | 15 | 31.91 | W | dead | TTR7 | gravity core | 604 | TTR7-AT-62G | Wilson & Vina Herbon, 1998 |
| 55 | 11.00 | N | 11 | 31.00 | W | unknown | | | 2640 | | Joubin 1922a, b |
| 55 | 55.00 | N | 9 | 05.00 | W | unknown | CC | | 181 | | Wilson, 1979 |
| 54 | 05.00 | N | 12 | 06.00 | W | unknown | SMBA | Trawl | 785 | 17 | Gage 1977 |
| 53 | 17.00 | N | 14 | 36.00 | W | unknown | CH11/81 | dredge | 600 | C30 | Scoffin and Bowes, 1988 |
| 53 | 26.07 | N | 14 | 27.75 | W | dead | BGS | gravity core | 762 | 75/18/001 | Hitchen & Cavill, 1998 |
| 53 | 45.39 | N | 14 | 00.22 | W | dead | TTR7 | gravity core | 743 | TTR7-AT-49G | Wilson & Vina Herbon, 1998 |
| 53 | 45.99 | N | 13 | 57.64 | W | dead | TTR7 | boxcore | 783 | TTR7-AT-43B | Wilson & Vina Herbon, 1998 |
| 53 | 46.48 | N | 13 | 56.71 | W | live | TTR7 | 1 tonne gravity corer | 685 | TTR7-AT-51G | Wilson & Vina Herbon, 1998 |
| 53 | 46.54 | N | 13 | 56.83 | W | dead | TTR7 | Kastencore | 689 | TTR7-AT-44K | Wilson & Vina Herbon, 1998 |
| 53 | 46.55 | N | 13 | 56.83 | W | dead | TTR7 | boxcore | 668 | TTR7-AT-42B | Wilson & Vina Herbon, 1998 |
| 52 | 13.93 | N | 14 | 54.93 | W | unknown | BGS | gravity core | 746 | 74/21/002 | Hitchen & Cavill, 1998 |
| 52 | 13.98 | N | 14 | 54.92 | W | unknown | BGS | gravity core | 738 | 74/21/001 | Hitchen & Cavill, 1998 |
| 52 | 57.40 | N | 14 | 49.87 | W | live | BGS | gravity core | 712 | 74/1/001 | Hitchen & Cavill, 1998 |
| 50 | 42.10 | N | 11 | 07.10 | W | dead | IFREMER | manned submersible | 724 | Dive 36 | Tudhope and Scoffin 1995 |
| 50 | 44.00 | N | 11 | 13.20 | W | live | IFREMER | manned submersible | 910-925 | Dive 31, 40, 41 | Tudhope and Scoffin 1995 |
| 49 | 26.00 | N | 11 | 36.30 | W | unknown | SMBA | epibenthic sledge (1.75km tow) | 845-870 | 50824#3 | Gordon 1980 |

Collector codes

| | |
|---------|---|
| AHO | Admiralty / Hydrographic Office chart |
| BGS | British Geological Survey |
| CC | Close's chart |
| CH | RRS Challenger (cruise number) |
| DAK | Mr D A Kerr |
| DGR | Mr D G Roberts |
| DGU | Danish Geological Survey (now known as GEUS) |
| DHI | Deutsches Hydrographisches Institut chart |
| EJ | Dr. E.J.W.Jones |
| FLL | Fisheries Laboratory Lowerstoft |
| HM | Håkon Mosby (year of collection) |
| IFREMER | French Institute of Research and Exploitation of the Sea |
| IGS | Institute of Geological Sciences (now known as BGS) |
| IOS | Institute of Oceanographic Sciences (now known as SOC) |
| IPM | Institut Scientifique et Technique des Pêches Maritimes chart |
| JH | Skipper J Havgard |
| JO | Skipper J Olsen |
| KC | Kingfisher chart |
| KJ | Skipper K Joensen |
| KT | Koralnes Trawler (year of collection) |
| L | Logos (year of collection) |
| MLA | Marine Laboratory Aberdeen |
| MAF | Ministry of Agriculture and Fisheries |
| MH | Magnus Heinason (year of collection) |
| MRD | Dr M R Dobson |
| MS | Michael Sars (year of collection) |
| PM | Skipper P Mikklesen |
| SAMS | Scottish Association for Marine Science |
| SMBA | Scottish Marine Biological Association (now known as SAMS) |
| SOC | Southampton Oceanography Centre |
| SP | Skipper S Poulsen |
| T | Tjaldrid (year of collection) |
| TC | Skipper T Christy |
| TTR7 | TTR-7 cruise of R/V Professor Logachev |
| V | Valdivia (year of collection) |
| WH | Walther Hervig (year of collection) |

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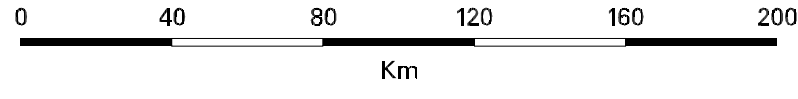
DEEP WATER CORAL DISTRIBUTION ON THE ATLANTIC MARGIN

Localities where *Lophelia pertusa* has been sampled or photographed

Legend

- Sites of dead coral
- Sites of live coral
- Sites of coral of unknown status
- + Short trawls (<2km) recovering dead coral
- + Short trawls (<2km) recovering live coral
- + Short trawls (<2km) recovering coral – status unknown
- Trawl tracks recovering dead coral
- Trawl tracks recovering live coral
- Trawl tracks recovering coral – status unknown

Scale 1:2,000,000



Universal Transverse Mercator Projection
Central Meridian 3°W

BGS Technical Report WB /99 /24

