



Maritime &
Coastguard
Agency



UK Hydrographic
Office

UK Civil Hydrography Programme

Hydrographic Instruction 1719

Version 3

Portland East

Addition to MCA Hydrographic Survey Services in UK and European Waters v 2018

Contents

| | |
|---|---|
| Document Versions..... | 1 |
| Abbreviated Terms..... | 1 |
| 1. Scope..... | 2 |
| 2. Related Standards | 2 |
| 3. Government Furnished Data..... | 2 |
| 4. Area to be Surveyed..... | 2 |
| 5. Survey Control & Positioning | 4 |
| 6. Tides and Tidal Stream Observations | 4 |
| 7. Bathymetry | 5 |
| 8. Wreck Database for Area..... | 5 |
| 9. Seabed Sampling and Classification..... | 5 |
| 10. Sailing Directions..... | 6 |
| 11. Magnetic Anomalies, Eddies and Over-falls | 6 |
| 12. Deliverables..... | 7 |
| | |
| Figure 1 - Overview of Survey Area..... | 3 |
| Figure 2 - Close-up of Survey Area..... | 3 |

Document Versions

| Version Number | Date of Issue | Comment |
|----------------|---------------|--|
| 1 | 27/08/2020 | Issued to MCA |
| 2 | 08/09/2020 | Minor amendments requested by MCA |
| 3 | 22/09/2020 | Removal of polygon centroid from survey area coordinates table |

Abbreviated Terms

| Symbol | Meaning |
|--------|---|
| BA | British Admiralty |
| CD | Chart Datum |
| CORS | Continuously Operating Reference stations |
| ENC | Electronic Navigational Chart |
| ETRS | European Terrestrial Reference System |
| GNSS | Global Navigation Satellite System |
| HI | Hydrographic Instruction |
| IHO | International Hydrographic Organisation |
| MCA | Maritime & Coastguard Agency |
| MSL | Mean Sea Level |
| MLWS | Mean Low-Water Springs |
| OD | Ordnance Datum |
| RoS | Report of Survey |
| SD | Sounding Datum |
| UKHO | United Kingdom Hydrographic Office |
| VORF | Vertical Offshore Reference Frame |
| WGS | World Geodetic System |

1. Scope

This document details the project specific requirements for conducting HI1719 – Portland East. It is authored by the UK Hydrographic Office (UKHO), on behalf of the Maritime & Coastguard Agency (MCA), for issue to the appropriate contractor. The area is described in the coordinates and diagrams in section 4.

2. Related Standards

The following publications are to be adhered to in the conduct of this HI:

- MCA UK Civil Hydrography Programme Survey Specification v 2018

In addition, the following documents should also be referenced and followed where applicable:

- Standards for Hydrographic Surveys. Special Publication No. 44, 5th Edition, February 2008. International Hydrographic Organisation (Order 1A).

3. Government Furnished Data

The following Government furnished data will be provided to support this HI:

- All known wrecks within the limits of each survey block.
- BA Charts for the area in GeoTiff format.
- S57 ENC data for the area.
- VORF Model outputs for the area in ASCII format.
- NP27 – Pilot: Channel

Note: Government furnished data remains the property of the UKHO. As such, the data must be deleted from all storage systems once the contract has been completed. All government furnished data is Crown Copyright and must not be duplicated or distributed without the permission of the MCA or UKHO. Government Furnished Data must not be used for navigation.

4. Area to be Surveyed

The contractor shall survey the area stated in Table 1 in line with the UK Civil Hydrography Programme Survey Specification v 2018. All co-ordinates are quoted in ETRS89 in degrees decimal minutes.

Consideration should always be given to extending a survey area if a particular seabed feature such as the edge of a critical bank is not adequately covered by the prescribed areas. If the contractor feels an area should be extended in this way, please consult the MCA as soon as possible.

As stated in the specification, where significant differences to depths for a given area are found, particularly to the controlling depth, a Hydrographic Note (H102) should be immediately sent

to the UKHO notifying them of the critical depth changes and their positions, and copied to the MCA Hydrography & Meteorology and Receiver of Wreck Teams.

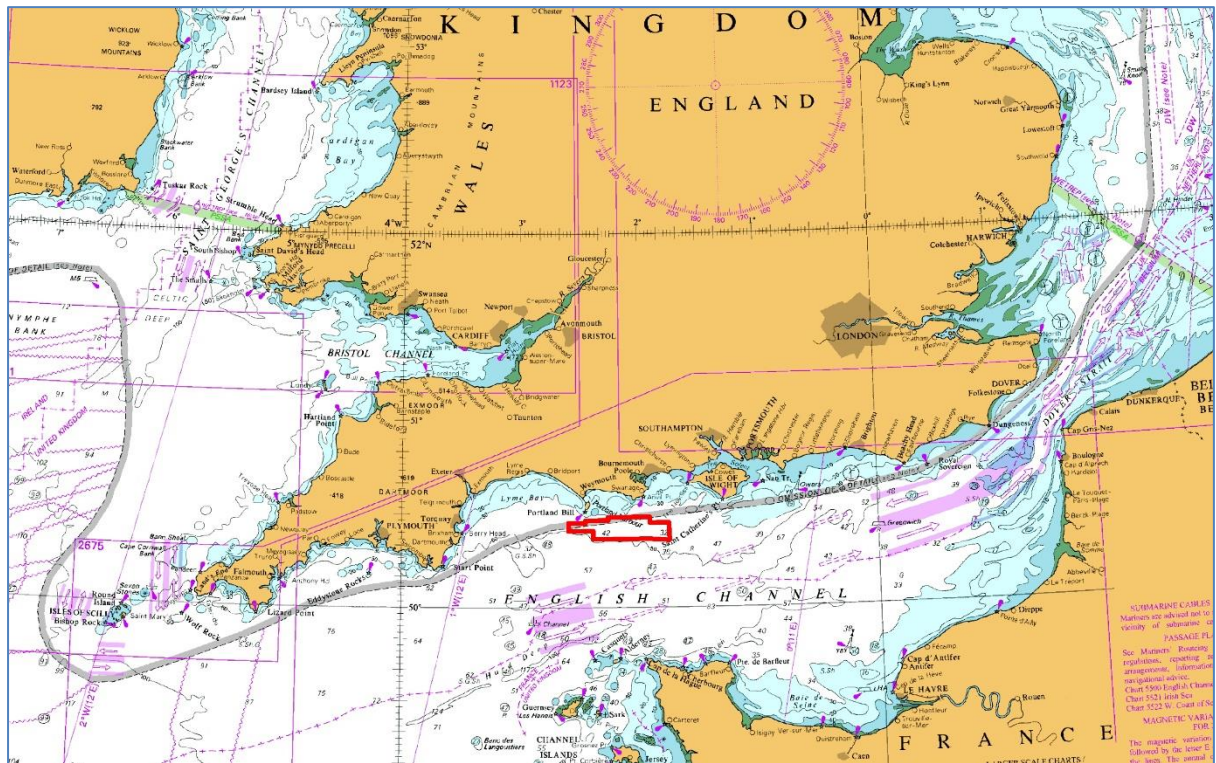


Figure 1 - Overview of Survey Area

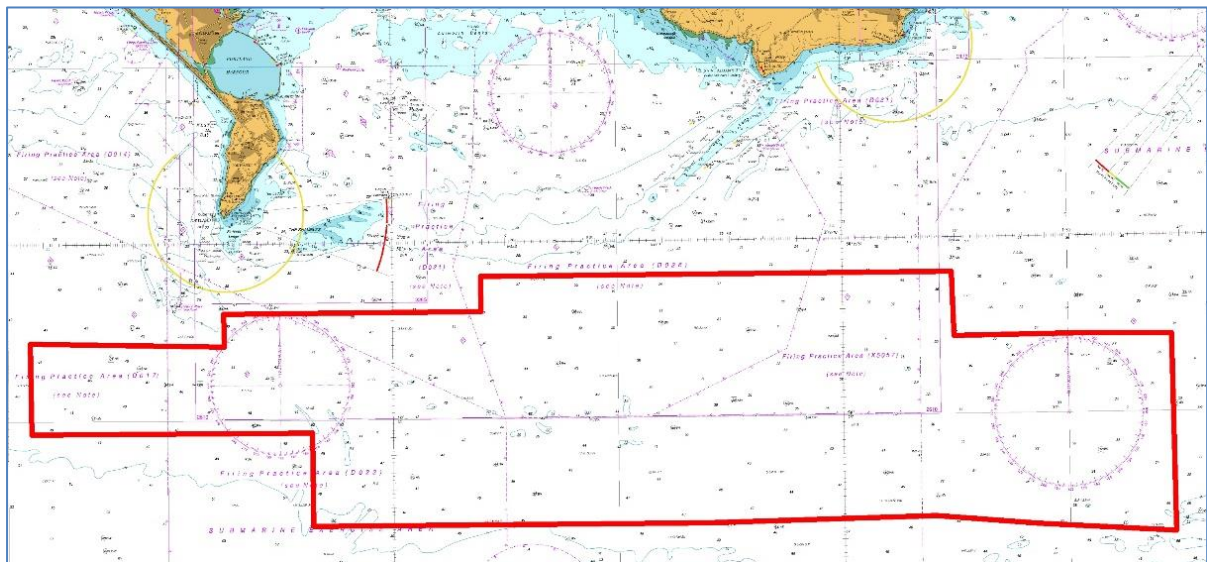


Figure 2 - Close-up of Survey Area

| HI1719 - Coordinates – 613 km ² | | |
|--|--------------|---------------|
| Point | Latitude | Longitude |
| 01 | 50°29.0191 N | 001°55.1490 W |
| 02 | 50°27.1947 N | 001°55.0624 W |
| 03 | 50°27.2189 N | 001°49.4307 W |
| 04 | 50°27.1850 N | 001°45.4178 W |
| 05 | 50°21.5979 N | 001°45.3196 W |
| 06 | 50°21.8489 N | 001°51.3940 W |
| 07 | 50°22.1099 N | 001°55.9577 W |
| 08 | 50°21.9888 N | 002°06.1228 W |
| 09 | 50°22.0002 N | 002°23.5891 W |
| 10 | 50°24.6441 N | 002°23.6090 W |
| 11 | 50°24.6405 N | 002°36.0587 W |
| 12 | 50°27.2092 N | 002°36.1096 W |
| 13 | 50°27.0924 N | 002°27.4851 W |
| 14 | 50°28.0151 N | 002°27.5149 W |
| 15 | 50°28.0370 N | 002°16.0719 W |
| 16 | 50°29.0262 N | 002°16.0777 W |
| 17 | 50°29.0191 N | 001°55.1490 W |

Table 1 – Survey Area Coordinates

5. Survey Control & Positioning

Positioning System:

In line with specification.

Datum: ETRS89

Spheroid: GRS '80

Projection: UTM Grid Zone 30 North (Central Meridian 3° West)

All positioning data (including bathymetry positioning) and reports rendered as part of this survey shall be quoted in terms of the ETRS89 reference frame.

All rendered positions within RoS shall be quoted as geographical co-ordinates (i.e. in terms of Lat. / Long) as degrees and decimal minutes.

6. Tides and Tidal Stream Observations

6.1 Confirmation of GNSS System and Application of VORF Model

Not required.

6.2 Tidal Data

Not required.

6.3 Tidal Stream Data

Not required.

7. Bathymetry

Full seafloor coverage shall be achieved within the defined polygon.

8. Wreck Database for Area

The UKHO Wreck/Obstruction Database contains the following number of wrecks/obstructions in the survey areas:

| | | | |
|------------------|-----------------|----------------|-----------------|
| Total: 56 | Live: 33 | Lift: 0 | Dead: 23 |
|------------------|-----------------|----------------|-----------------|

For details see

- HI_1719_CHP_Portland_East_ListOfWrecks.csv
- HI_1719_CHP_Portland_East.html

9. Seabed Sampling and Classification

9.1 Seabed Classification

Required in line with specification.

9.2 Seabed Sampling

Required in line with specification.

10. Sailing Directions

10.1 The appropriate Sailing Directions (Pilot) has been supplied in PDF format and should be checked in the field with appropriate amendments rendered. Particular attention should be paid to any recommended approach routes and anchorages within or adjacent to the survey area.

The following specific views are required.

| No | Description | From Direction | Position of Stated Feature (Degrees-Minutes decimal minutes) | Type of view (see note below) | NP Page (NP Publication, Paragraph number) |
|----|--|----------------|---|----------------------------------|---|
| 1 | Old Low Lighthouse | SE | 50°31'·18N 2°27'·07W | Portrait/Close-up | NP27, para 6.21 |
| 2 | Portland E Ship Channel/A Head/Fort Head | NNE | 50°35'·13N 2°24'·95W | Pilotage/Portrait/Close-up | NP27, para 6.46 |

Note - Type of view refers to: Panoramic views, Aerial Oblique views, Pilotage views, Portrait views and Close-up views. Please refer to P100 (chapter 4.37) for view descriptions.

10.2 Confirm whether the following Principal marks, Landmarks and Useful marks listed in NP27 remain as such:

- a) Aluminium Chimney (50°36'·09N 2°27'·06W) (para 6.45)

10.3 If appropriate, propose new Useful marks and/or Landmarks to support port entry and coastal passages. All proposals should be accompanied by full details including geographical position and photographs taken from seaward.

11. Magnetic Anomalies, Eddies and Over-falls

11.1 Magnetic Anomalies

There are no charted magnetic anomalies in the survey area. Any such anomalies found should be reported to MCA and UKHO at the earliest opportunity to enable further investigation.

11.2 Eddies and Over-falls

Positions of all such charted features are to be checked, and any significant differences reported in line with the specification.

12. Deliverables

The deliverables and RoS for this survey should not be split into multiple parts. One set of deliverables is requested.

Data should be rendered to the UKHO upon completion of processing and reporting in line with specifications. Please submit all data and reports in digital form on suitable electronic media to the address below:

Bathymetric Data Management (Survey Receipt)

UK Hydrographic Office

Admiralty Way

Taunton

TA1 2DN

Please note that no named individual should be addressed.