

## 1. Zip file information

This zip file contains a Marine Management Organisation (MMO) two pdf files, one is a report entitled 'AIS Derived Shipping Activity - Data Standards' and the other is a 'Draft data guideline for the presentation of AIS Derived Vessel Spatial Data'. These files were the output of work undertaken by ABP Marine Environmental Research Ltd (ABPmer) commissioned by The Marine Management Organisation (MMO) to develop approaches for the mapping of shipping activity using Automatic Identification System (AIS) data supplied by the Maritime and Coastguard Agency (MCA). The draft guideline provides a suggested definition for the format of AIS derived vessel spatial data and its representation within mapped products and builds on the existing standards for capture and display of AIS raw data.

## 2. Background to Data Guidelines

The Marine Environmental Data and Information Network (MEDIN) is working towards creating a framework of consistent standards covering the major types of data collected and used to describe the marine environment around the UK. The principle benefits of this suite of standards are:

- Allows contracting organisation to easily specify a format that data should be returned in that can be readily used and includes all relevant attributes;
- Provides a consistent format for contractors to work to (rather than a different format for each contract);
- Data can be readily exported to Data Archiving Centres and other users; and
- Instils good practice amongst users.

Each standard defines the data and information that must be stored with a particular data type to ensure it can be readily used and reused. As this type of information is specific for different data types, guidelines are developed for each type. This document describes the format used for AIS derived spatial data and its representation within mapped products.

MEDIN provides standards for data and products. This product guideline describes the necessary information which should be provided when a product has been derived from raw data. The information in the tables below should be included in a MEDIN discovery metadata record.

### 2.1 Using this Product Guideline

This guideline is split into sections which refer to the process states of AIS data transfer to describe mapped products. These are identified as:

- **AIS Data** – a summary of AIS data format and types;
- **Spatial Accuracy** – provides a qualitative description of expected spatial accuracy of AIS positional data;
- **AIS Processing** – a summary of AIS processing steps to arrive at derived data for spatial representation; and
- **AIS Derived Data** – provides the details table layout of AIS derived products within a database structure for use in a GIS environment.