Metadata – CRAFT TRACKING SYSTEM RECORDS October 2020 – Spatial Data Series AMSA

DATASET

Name:	**cts_srr_10_2020_pt**
Title:	Craft Tracking System October 2020 dataset
Custodian:	Australian Maritime Safety Authority (AMSA)
Jurisdiction:	Australian Search and Rescue Region - Australia

DESCRIPTION

Abstract:

The Craft Tracking System (CTS) and Mariweb are AMSA's vessel traffic databases. They collect vessel traffic data from a variety of sources, including terrestrial and satellite shipborne Automatic Identification System (AIS) data sources.

This dataset has been built from AIS data extracted from CTS, and it contains vessel traffic data for the month of October 2020. The dataset covers the extents of Australia's Search and Rescue Region.

Each point within the dataset represents a vessel position report and is spatially and temporally defined by geographic coordinates and a Universal Time Coordinate (UTC) timestamp respectively.

Search Words:

MARINE – Human Impact

POLLUTION – Water

TRANSPORTATION - Water

Geographic Extent:

Xmin : 75.0

Xmax: 163.0

Ymin: -86.536012

Ymax: -2.000117

DATASET CURRENCY

Data Collection:

Beginning Date:	01 October 2020
Ending Date:	31 October 2020

DATASET STATUS:

Progress:	Complete
Maintenance &	
Update Frequency:	Monthly

DATASET ACCESS:

Stored Data Format(s): ArcGIS File Geodatabase point feature class

Available Format Type(s): ESRI Shapefile

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Geographic
Coordinate System: WGS1984
Angular Unit: Degree (0.0174532925199433)
Prime Meridian: Greenwich (0.0)
Datum: WGS 1984
 Spheroid: WGS 1984
 Semimajor Axis: 6378137.0
 Semiminor Axis: 6356752.314245179
 Inverse Flattening: 298.257223563

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DATA QUALITY:

Lineage: Vessel traffic data from CTS, for the month of October 2020, was extracted from the CTS relational database utilising the ESRI ArcCatalog application. The data was extracted to a File Geodatabase table and a point feature class was created using the geographic coordinates contained in each table record.

A custom geoprocessing tool was utilised to thin the point feature class based on a minimum time interval between successive vessel position reports of 60 minutes. The point feature class was then exported to a Shapefile and vessel identification fields (i.e. MMSI number, Reg, IMO number, callsign and vessel name) were deleted from the dataset.

Positional Accuracy: The positional accuracy of each vessel position report is dependent upon the positioning device utilised by the vessel. In most cases, GPS and differential GPS positional devices have been used, ensuring an accuracy of +/- 10 metres horizontally.

Logical Consistency: **1,656,513** point features in dataset.
Attribute information is held against every point.
Points October be duplicated.
Attribute and visual validation tests are performed on the data.

CONTACT INFORMATION:

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Metadata Date: 18/11/2020

SUPPLEMENTARY INFORMATION:

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Field name	Type	Description
CRAFT_ID	Double	Unique identifier for each vessel
LON	Double	Longitude in decimal degrees
LAT	Double	Latitude in decimal degrees
COURSE	Double	Course over ground in decimal degrees
SPEED	Double	Speed over ground in knots
TYPE	Text	Vessel type
SUBTYPE	Text	Vessel sub-type
LENGTH	Short integer	Vessel length in metres
BEAM	Short integer	Vessel beam in metres
DRAUGHT	Double	Draught of the vessel, in metres.
TIMESTAMP	Text	Vessel position report UTC timestamp in dd/mm/yyyy hh:mm:ss AM/PM format

The table below provides a sample of attribute data contained in this dataset.

Please note, ship identification is not included.

CRAFT_ID	13229
LON	144.899222
LAT	-38.283218
COURSE	182.4
SPEED	11.5
TYPE	Port Tender
SUBTYPE	
LENGTH	18
BEAM	4
DRAUGHT	2
TIMESTAMP	20/10/2020 10:09:48 PM