



STREAMLINED | INFORMED | PROTECTED

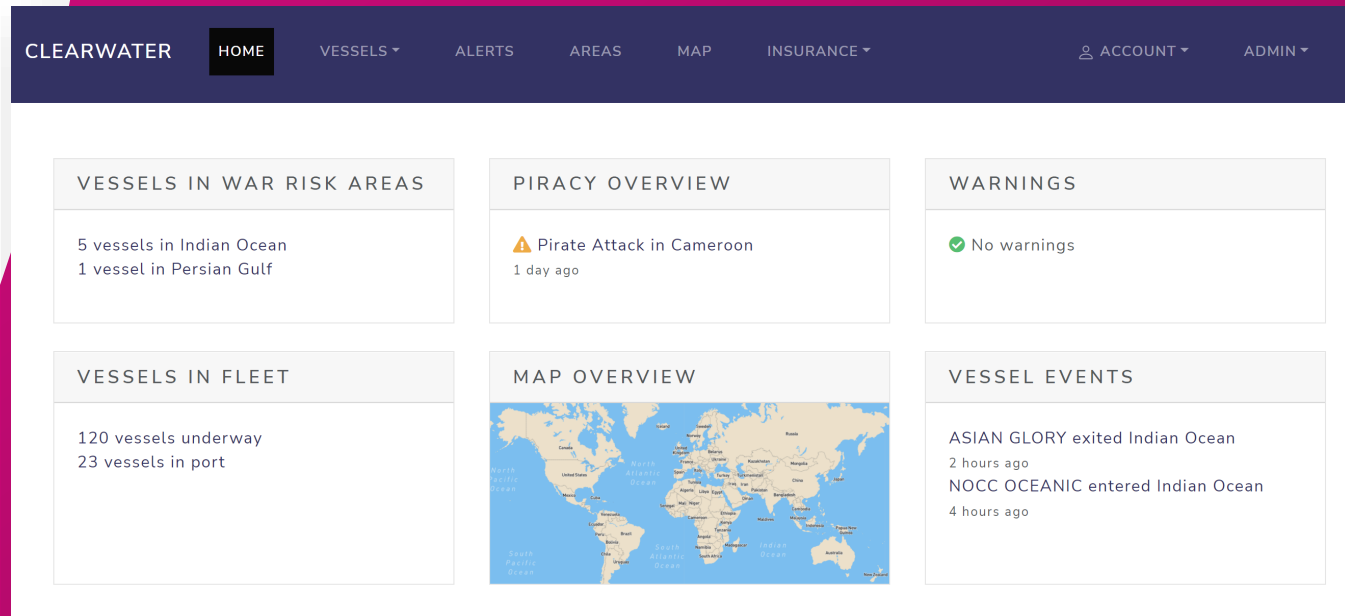
CORAL was created following significant experience gained over many years working with Leading War Risk Insurers through an extensive period of industry change. Listening and learning from our customers has enabled our teams to create new ways to solve old problems.

CORAL SaaS digitalises core elements of Insurance process whilst protecting insured assets with best-in-class 24/7 oversight, maritime intelligence and operational support.

For War Insurers and Brokers

- Creates a single source of truth for all insured assets
- Automates core elements of insurance value chain
- Digitally connects Insurer's with their brokers, vessel owners and operators
- Map's vessels integrating route planning, weather, marine charts, piracy & area overlays
- Identifies and mitigates marine piracy and war risks
- Displays aggregated risk exposures
- Validates breach reporting accuracy
- Provision of data driven smart quotations
- Capture new business and improve client retention

Clearwater Dynamics CORAL platform transforms Marine War Insurance systems



CORAL = InsurTech TOOLS

Software developed by Clearwater Dynamics delivers a host of functionality for intuitive simplification of risk management operations.

INSURANCE MANAGEMENT

- ✔ Quotation management
- ✔ Client management
- ✔ Vessel management
- ✔ Ratings schedule
- ✔ Breach area management
- ✔ Quote and bind

INSURANCE APPLICATIONS

- ✔ Mapping and domain awareness
- ✔ Risk aggregation
- ✔ Smart quotation
- ✔ Asset management
- ✔ Events alerting
- ✔ Live tracking
- ✔ Fused global AIS
- ✔ Risk management

INSURANCE MANAGEMENT

- Intuitive, user-friendly dashboard
- Automatically import vessels in Excel or CSV for pairing with Global fleet database
- Automatically upload new and existing policy and supporting insurance documents
- Dynamically amend, view, export and print documents with end-to-end audit trail
- Multi- currency, permission-based admin and viewing protocols

Insurance Type Business Type UMR / Policy Ref

Broker Assured

Underwriter Written line % Signed line % Lead/Follow

Start Date 27/07/2022 End Date dd/mm/yyyy

DOCUMENTS

Slip document No file chosen Vessels data sheet No file chosen [Download template](#) Rates data sheet No file chosen [Download template](#)

View Edit Vessels Rates

Insurance Type Business Type

Broker Georg Duncker Assured My Space II Limited

Underwriter 30% signed line - Follow

Start Date 11 Feb 2022 End Date 10 Feb 2023

Home / Insurance / Policies / Import vessels / New import

IMPORT VESSELS

VESSEL LIST UPLOAD

No file chosen

ADVANCED SETTINGS

Import owner organisation

Clearwater test

Home / Insurance / Policies / Import vessels / #50 / Mapping

IMPORT #50

pending

SUMMARY

12 rows found

DATA MAPPING

Assured
e.g. MONTEC SHIPPING Assured Name

Vessel name
e.g. MONJASA TRADER, MONJASA RUNNER, MONJASA RANGER Vessel Name

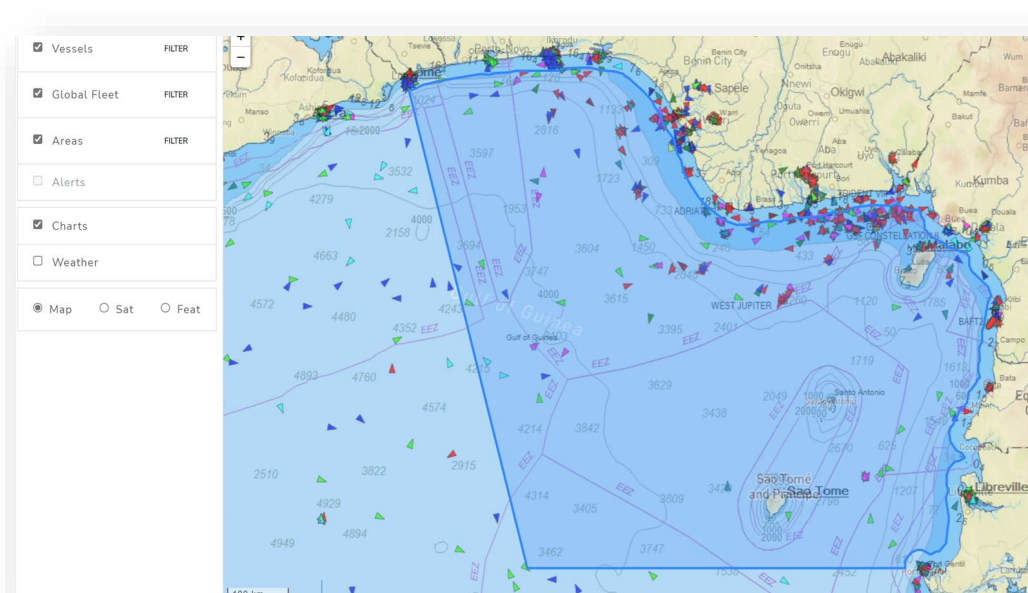
IMO IMO

INSURANCE APPLICATIONS

Vessels imported to CORAL are fused with existing AIS records. Clearwater Dynamics proprietary vessel profiling is included with speed and draught characteristics and historic location intelligence for accurate breach assessment and subsequent smart quotations. Voyages to additional premium areas can be declared and instantly quoted. A full management process to see each declaration through.

Intuitive mapping layers provide enhanced domain awareness essential to brokers and underwriters, particularly during times of crisis such as the Ukraine conflict. Layers include:

- ✓ Tracked policy vessels
- ✓ Global AIS feed
- ✓ Official and custom areas for war, ice, EEZ, and ports
- ✓ Marine charts
- ✓ Weather



[Home](#) / [Insurance](#) / [Declarations](#) / [New declaration](#)

NEW DECLARATION

DETAILS

Vessel

<input type="text" value="Vessel name"/>		
Area	Entry date	Duration (days)
<input type="text" value="Area name"/>	<input type="text" value=""/>	<input type="text" value="Number of day"/>
<input type="checkbox"/> Armed guards on board <input type="checkbox"/> Military cargo		

Add segment

NOTES

Include any relevant information for this declaration

[Home](#) / [Vessels](#) / [Global Fleet](#)

VESSELS

[Overview](#)[Insured](#)[Global Fleet](#)

VESSEL SEARCH

Name	IMO	MMSI
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="GO"/>		
<input type="button" value="SEARCH"/>		

OWNER SEARCH

Owner name
<input type="text"/>
<input type="button" value="SEARCH"/>

AL AREESH

IMO 9325697

View

Policies

Overview

AIS details

Enhanced

Name	AL AREESH
IMO	9325697

Updated 2 minutes ago



CORAL

RISK MANAGEMENT

- ✓ 24/7 Operations oversight
- ✓ Voluntary reporting
- ✓ Intelligence provision from globally deployed network
- ✓ Rapid and accurate reporting of piracy incidents
- ✓ Active route monitoring
- ✓ Route risk reports
- ✓ Direct contact with tracked vessels

EXISTING SYSTEMS INTEGRATION



Secure API

Clearwater Dynamics offer their API for clients to access their data in third-party systems. Information is stored in the cloud utilising industry leading, modern authentication protocols. Which means client data is always secure and backed up.

Reduce operational complexities

Data can be entered in the Clearwater Portal and made instantly available anywhere that the API is integrated. Providing this access means that all stakeholders, such as underwriters, have access to the latest vital information for accurately and effectively managing assets and associated risk.

CORAL

ENHANCED VESSEL DETAILS

A database of in-depth vessel details is readily available for tracked vessels in the Clearwater Portal. Information includes:

- ✓ Dead weight tonnage (DWT)
- ✓ Draught
- ✓ Type, age and flag
- ✓ Ownership details
- ✓ Engine information
- ✓ Propulsion information
- ✓ Dimensions

Details Dimensions Vessel And Trading Type Capacity Registration Propulsions History Design

Built Year	2013
Commercial Owner	Almi Tankers
Hull Number	5359
Ship Builder	Daewoo
Name Date	2009-12-22T00:00:00+00:00
Updated	2 years ago

Details Dimensions Vessel And Trading Type Capacity Registration Propulsions History Design

Vessel Type	Tanker
Subtype	Oil Tanker
Trading Category	In Service
Trading Status	Existing
Updated	2 years ago

Details Dimensions Vessel And Trading Type Capacity Registration Propulsions History Design

Engine Designation	6S70MC-C
Main Engine Designer	MAN B&W
Main Engines	1
Mco	18660
Mco Unit	KW
Mcorpm	91
Propellers	1
Propulsion Type	Motor
Updated	2 years ago

Number of reports by speed (bins)

CORAL

BETTER PREDICT LIKELY
BREACH DURATIONS
AND ETA'S

Clearwater collects and aggregates data to indicate typical vessel moving speeds. The graph opposite illustrates the speed profile for one tanker over a month.



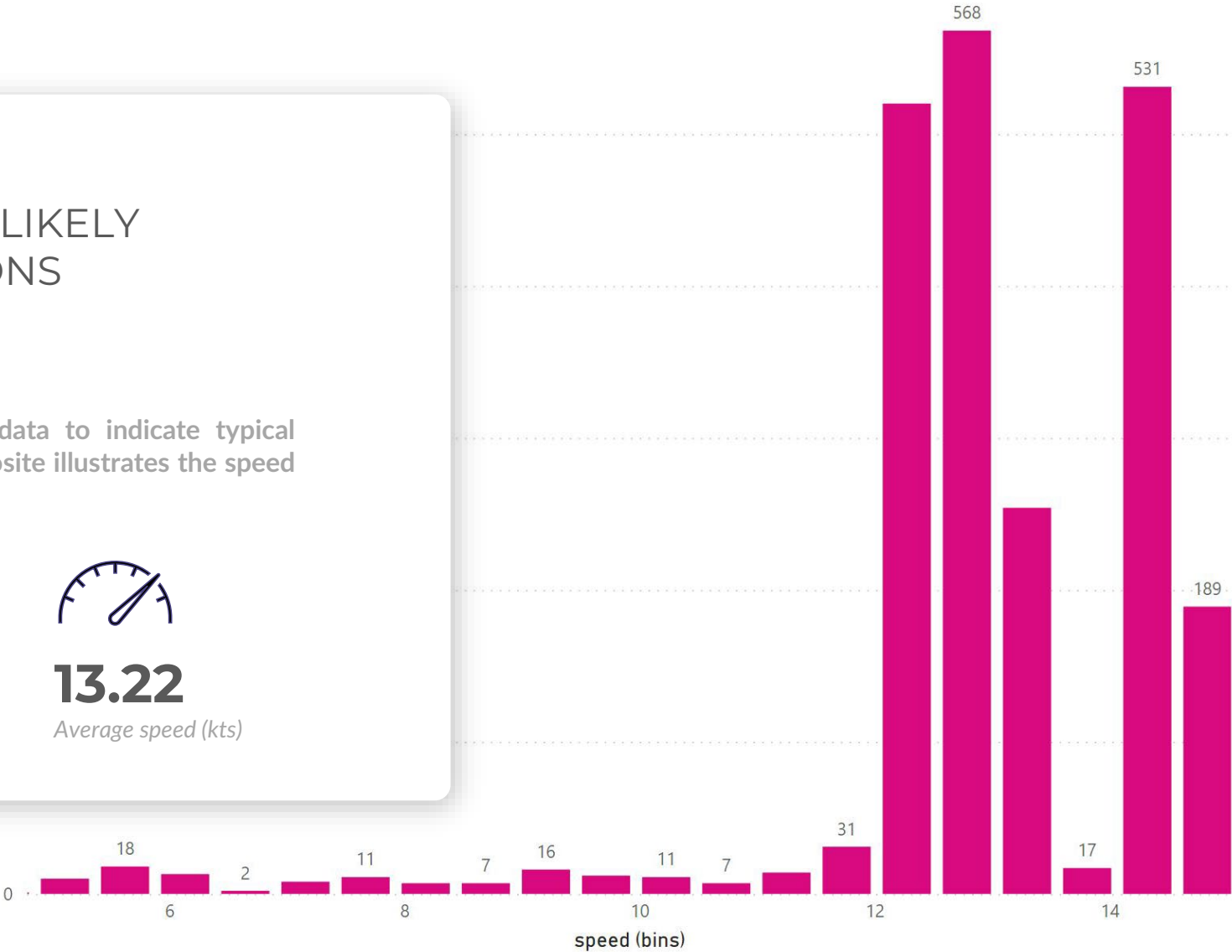
2,247

Reports received



13.22

Average speed (kts)



CORAL

CUSTOM AREAS

Create and manage custom areas of interest within the Clearwater Portal

Aggregate war breaches


The portal will automatically detect when a tracked vessel enters and exits

Monitor sanctions compliance

Create sanctioned areas to stay informed when a tracked vessel enters the area

Alert notifications

Get notifications when tracked vessels enter or exit an area of interest



Date	Lat	Lon	Location	Course	Speed	Source
02 Sep 2021 09:30:04	6° 10' 38.4" N	3° 24' 49.8" E	Bight of Benin	18	16.8	AIS
02 Sep 2021 09:05:11	6° 3' 55.2" N	3° 22' 31.8" E	Bight of Benin	18	16.7	AIS
02 Sep 2021 08:50:02	5° 59' 52.8" N	3° 21' 12" E	Bight of Benin	17	16.6	AIS
02 Sep 2021 08:32:51	5° 55' 9.8" N	3° 19' 39.6" E	Bight of Benin	17	16.6	AIS
02 Sep 2021 07:25:33	5° 36' 56.4" N	3° 22' 23.4" E	Bight of Benin	6	16.9	AIS
02 Sep 2021 05:56:59	5° 12' 45.6" N	3° 19' 38.4" E	Bight of Benin	7	16.9	AIS
02 Sep 2021 04:42:12	4° 51' 26.4" N	3° 17' 27.6" E	Gulf of Guinea	2	16.2	AIS
02 Sep 2021 04:17:21	4° 44' 21.6" N	3° 17' 40.2" E	Gulf of Guinea	358	18	AIS
02 Sep 2021 03:49:29	4° 36' 3" N	3° 18' 21" E	Gulf of Guinea	7	18.1	AIS
02 Sep 2021 03:23:24	4° 28' 16.8" N	3° 17' 30.6" E	Gulf of Guinea	4	18	AIS
02 Sep 2021 02:55:29	4° 19' 51" N	3° 16' 50.4" E	Gulf of Guinea	6	17.8	AIS
02 Sep 2021 02:33:24	4° 13' 12" N	3° 16' 7.2" E	Gulf of Guinea	6	18.4	AIS
02 Sep 2021 02:07:01	4° 9' 44.4" N	3° 10' 30.6" E	Gulf of Guinea	89	17.8	AIS
02 Sep 2021 01:50:33	4° 9' 41.4" N	3° 9' 46.2" E	Gulf of Guinea	89	17.8	AIS
02 Sep 2021 01:24:06	4° 9' 37.2" N	2° 57' 55.2" E	Gulf of Guinea	89	17.8	AIS
02 Sep 2021 01:00:40	4° 9' 33" N	2° 50' 52.2" E	Gulf of Guinea	87	18	AIS
02 Sep 2021 00:29:46	4° 9' 11.4" N	2° 41' 51.6" E	Gulf of Guinea	87	17.8	AIS
02 Sep 2021 00:27:39	4° 9' 9.6" N	2° 41' 1.8" E	Gulf of Guinea	87	17.7	AIS
01 Sep 2021 23:47:55	4° 8' 59.4" N	2° 29' 18" E	Gulf of Guinea	88	17.7	AIS
01 Sep 2021 23:36:55	4° 8' 54" N	2° 26' 2.4" E	Gulf of Guinea	88	17.7	AIS
01 Sep 2021 23:25:44	4° 8' 51" N	2° 22' 45.6" E	Gulf of Guinea	89	17.6	AIS
01 Sep 2021 22:56:10	4° 8' 51" N	2° 14' 8.4" E	Gulf of Guinea	89	17.6	AIS
01 Sep 2021 22:09:24	4° 8' 59.4" N	2° 0' 18.6" E	Gulf of Guinea	90	17.7	AIS
01 Sep 2021 22:06:49	4° 9' 0" N	1° 59' 30.6" E	Gulf of Guinea	90	17.7	AIS
01 Sep 2021 21:51:09	4° 9' 0" N	1° 54' 56.4" E	Gulf of Guinea	89	17.6	AIS
01 Sep 2021 21:33:15	4° 8' 58.2" N	1° 49' 40.2" E	Gulf of Guinea	89	17.5	AIS
01 Sep 2021 21:18:24	4° 8' 53.4" N	1° 45' 20.4" E	Gulf of Guinea	88	17.4	AIS