



HISTORICAL VOYAGE ANALYSIS (HVA)

The most accurate,  
fastest and reliable  
vessel performance  
analysis on the planet



# Setting the Stage



**Maritime operations are in the midst of a revolution, and Oceata is at the helm. With decades of expertise and a deep commitment to precision, our Historical Voyage Analysis (HVA) service is not just about numbers — it's about empowering decision-makers with insights that transform the way you manage your fleet.**

Imagine a system where every voyage tells a story. HVA collects, analyzes, and delivers unparalleled data, painting a vivid picture of your vessels' performance in any seaway. This isn't just analysis—it's clarity, helping you refine operations, reduce costs, and exceed industry standards.

At Oceata, we understand that your business thrives on accuracy, speed, and trust. That's why HVA is designed to be the fastest, most reliable, and most detailed vessel performance solution available today.

# Why HVA is Different

**What sets HVA apart is its unmatched capability to deliver actionable intelligence. Powered by advanced algorithms and big data, it transforms raw voyage details into insights you can use. Whether it's optimizing fuel efficiency, validating Charter Party claims, or planning routes with precision, HVA does it all with ease.**

HVA's seamless integration means you can load data from any source such as noon reports. The AIS and satellite weather data will automatically load providing the client with a unique ships digital fingerprint and the software platform will do the rest. With its state-of-the-art features, every decision you make is backed by the confidence that only Oceata can provide.

Innovation and reliability are in our DNA. Whether you're navigating the challenges of environmental regulations or striving to enhance your fleet's profitability, HVA is your trusted partner on the journey. Let's make waves together.



## Welcome to the future of fleet management

# An Example of Your Fleet

Vessel	IMO	Voyage Dates	AIS	Map	Step	Reports	Export
		01/04/2023 - 14/10/2023	22,962		4,705	HVA Ready	HVA   Data
		30/08/2024 - 29/10/2024	44	42,627	1,438	HVA Ready	HVA   Data
		05/09/2024 - 19/10/2024	38	27,875	1,056	HVA Ready	HVA   Data
		01/02/2023 - 01/05/2024	154	9,870	3,648	HVA Ready	HVA   Data
		01/02/2023 - 01/08/2024	245	49,437	5,848	HVA Ready	HVA   Data
		07/03/2022 - 06/05/2022	8,909		1,439	HVA Ready	HVA   Data
		01/08/2024 - 31/08/2024	1,082		745	HVA Ready	HVA   Data
		01/08/2024 - 31/08/2024	1,116		744	HVA Ready	HVA   Data
		01/08/2024 - 31/08/2024	5,256	1	744	HVA Ready	HVA   Data
		01/08/2024 - 31/08/2024	527	1	546	AIS Loaded	HVA   Data
		01/07/2024 - 01/09/2024	63	71,037	1,488	HVA Ready	HVA   Data
		15/01/2021 - 23/09/2021	0		0	Addid	HVA   Data
		22/06/2024 - 18/07/2024	38,107		623	HVA Ready	HVA   Data
		01/07/2024 - 31/07/2024	32	50,039	744	HVA Ready	HVA   Data
		11/07/2019 - 13/07/2019	0		0	Addid	HVA   Data
		01/07/2022 - 01/10/2022	1,964	3	0	AIS Parsed	HVA   Data
		30/06/2022 - 28/07/2024	80,490		0	AIS Parsed	HVA   Data
		21/09/2019 - 04/11/2019	26	2,632	604		HVA   Data
		07/05/2022 - 02/08/2022	58	6,792	2,081		HVA   Data
		24/07/2024 - 16/09/2024	57	32,458	1,307	HVA Ready	HVA   Data
		26/09/2021 - 12/12/2021	10,605		1,773	Checking Voyage	HVA   Data
		30/06/2022 - 28/07/2024	92,987		16,451		HVA   Data
		30/06/2022 - 28/07/2024	230,385		18,191	Weather Downloaded	HVA   Data
		01/11/2022 - 28/07/2024	75,106		11,029		HVA   Data
		30/06/2022 - 28/07/2024	56,044		18,216		HVA   Data

# Your Charterparty

**Update Voyage**

Vessel Name:

IMO:

MMSI:

Voyage Start: 05/09/2024 00:00

Voyage End: 19/10/2024 00:00

Analysis Dates (if different): 05/09/2024 00:00

Voyage End: 19/10/2024 00:00

**Vessel Fuel Types**

Primary Fuel: IFO: Intermediate Fuel Oil  used on voyage

Fuel 2: MGO: Marine Gas Oil  used on voyage

Fuel 3: -- Not Used --  used on voyage

Fuel 4: -- Not Used --  used on voyage

Fuel 5: -- Not Used --  used on voyage

Fuel 6: -- Not Used --  used on voyage

**Charter Party Good Weather Days**

Max Wind Speed: 16.00 knots

Max Wave Height: 125 m

Max Swell Height: 125 m

Max Wind Wave Height: 152 m

Wind Conditions: -- Any --

Current Conditions: Beneficial

Swell Conditions: -- Any --

Speed Over Ground: 11.00 knots

Fuel Usage (per day): 25.20 mt

testing

Enter your dates to be analysed.

Pick your fuel types.

Note you can add gensets for emission calculations.

Enter Charter Party warranty details.

# Vessel Dashboard

**SAFINAH**

IMO:   
MMSI:   
Type: Cargo  
Class: A  
Flag: Bangladesh  
Dimensions: 70m x 32m  
Fuel: IFO Intermediate Fuel Oil, MGO Marine Gas Oil

**Voyage Dates**  
05 Sep 2024 - 19 Oct 2024

**Charterparty Good Weather Specification**  
Current: Beneficial Wind Speed 16m Wave Height 125m Swell Height 125m Wind Wave 152m Speed 11m Fuel 25.2mt

**Exclusion Periods**

**HVA Data Filters (2)**  
Basic Hourly Assessment - 125 metre Significant Wave and Swell Wave Height Wind Wave Height DSS 152 metres, Beneficial Current Only  
Frequency: Hourly Current: Beneficial Wind Speed 16 Wave Height 125 Swell Height 125 Wind Wave 152 CIP Speed 11 CIP Fuel 25.2

**Total Analysis Points**  
18,893

**AIS Records** 27,875 **Weather Records** 1,056

**Noon Reports** 38 **Points Added** 0

Load your fleet into the system.

Add the voyage and the system will return the AIS and Weather data.

The system will load your voyage with or without your noon reports.

Monitor, report and Verification at your fingertips.

Any Charterparty type catered for including container and tanker speed and consumption curves.



# Your Fuel Type

Fuel	CO <sub>2</sub>	NO <sub>x</sub>	SO <sub>x</sub>	PM	CH <sub>4</sub>
BOG	2.75	0	0	0	0
ETHANOL	1913	0	0	0	0
HFO	3.114	0.0773	0.04773	0.0072	0
HSFO	3.114	0	0	0	0
IFO	3.114	0	0	0	0
LFO	3.151	0	0	0	0
LNG	2.753	0.0083	0.00003	0.0001	0
LPG_BUTANE	3.03	0	0	0	0
LPG_PROPANE	3	0	0	0	0
LSFO	3.114	0	0	0	0
LSMDO	3.206	0	0	0	0
LSMGO	3.206	0	0	0	0
MDO	3.206	0	0	0	0
METHANOL	1375	0	0	0	0
MGO	3.206	0.0549	0.00215	0.0009	0
ULSFO	3.114	0	0	0	0
VLSFO	3.114	0	0	0	0

All fuel types and their emission factors to calculate SEEMP and other emission regulations.

# Create Standardised Noon Report Template

Create noon report templates or in fact any other reporting template such as cargo or bridge and engine electronic log books for quick and easy uploading to the system.

# Exclusion Periods

Exclusion periods for off-hire, deviations, bunkering, guards or any other reason.

# Noon Reporting and Editing Feature

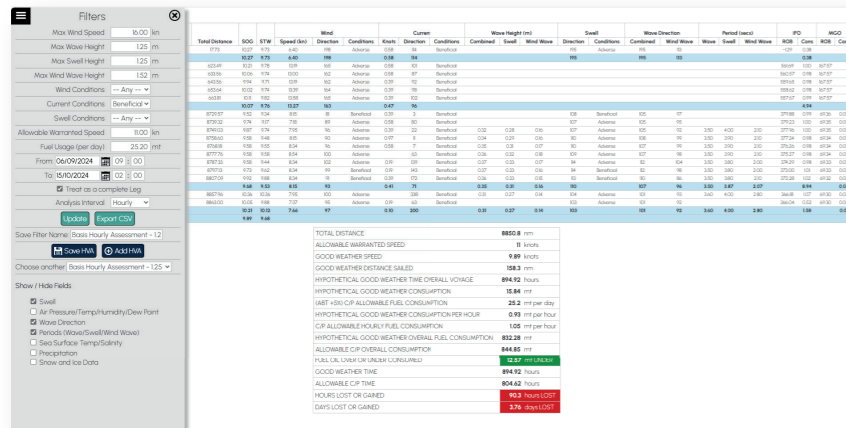
Date	Lat	Long	Map	Report	Distance	IFO ROB	Cons Bunkered	MGO ROB	Cons Bunkered
06 Sep 2024 12:00	4.1833	-6.1667	📍	🟢	44.03	612.941	3.24	167.77	0
07 Sep 2024 12:00	0.5667	-3.4833	📍	🟢	270.03	589.941	23	167.67	0.1
08 Sep 2024 11:00	-2.7833	-0.9667	📍	🟢	252.76	567.091	23.84	167.57	0.1
09 Sep 2024 11:00	-6	145	📍	🟢	241.53	543.491	23.6	167.47	0.1
10 Sep 2024 11:00	-9.15	3.8167	📍	🟢	235.94	519.941	23.55	167.37	0.1
11 Sep 2024 11:00	-12.2167	6.15	📍	🟢	229.88	496.141	23.8	167.27	0.1
12 Sep 2024 11:00	-15.1333	8.4	📍	🟢	220.15	472.341	23.8	167.07	0.1
13 Sep 2024 10:00	-17.9833	10.6167	📍	🟢	213.61	449.641	22.7	167.07	0.1
14 Sep 2024 10:00	-21.1667	13.1333	📍	🟢	208.26	426.041	23.6	166.97	0.1
16 Sep 2024 10:00	-25.1333	14.25	📍	🟢	202.66	395.45	15.65	166.77	0.1
17 Sep 2024 10:00	-28.2833	15.4167	📍	🟢	198.56	368.8	23.65	166.67	0.1
18 Sep 2024 10:00	-31.8667	16.8167	📍	🟢	192.00	342.2	23.6	166.57	0.1
19 Sep 2024 10:00	-34.5833	18.2167	📍	🟢	187.51	316.65	23.55	166.07	0.6
20 Sep 2024 10:00	-35.8833	22.2167	📍	🟢	184.20	291.05	23.7	165.97	0.1
21 Sep 2024 10:00	-35.9833	26.6167	📍	🟢	181.64	265.45	23.7	165.87	0.1
22 Sep 2024 09:00	-35.9333	31.25	📍	🟢	180.23	240.85	23.85	165.77	0.1
23 Sep 2024 09:00	-34.0333	35.3833	📍	🟢	179.50	215.25	23.9	165.67	0.1
24 Sep 2024 09:00	-33.95	40.0667	📍	🟢	179.17	189.65	23.86	165.57	0.1
25 Sep 2024 09:00	-34	44.9833	📍	🟢	179.25	164.05	23.89	165.47	0.1
26 Sep 2024 08:00	-34	49.7667	📍	🟢	179.09	138.45	22.72	165.37	0.1
27 Sep 2024 08:00	-33.7833	54.5833	📍	🟢	179.05	112.85	23.85	165.27	0.1
28 Sep 2024 08:00	-33.35	59.4667	📍	🟢	179.20	87.25	23.85	165.17	0.1
29 Sep 2024 07:00	-32.75	64.1	📍	🟢	179.45	61.65	22.85	165.07	0.1
30 Sep 2024 07:00	-31.9833	68.75	📍	🟢	180.00	36.05	23.86	164.97	0.1
01 Oct 2024 07:00	-31.0667	73.8333	📍	🟢	180.87	10.45	23.91	164.87	0.1

Noon reports are stored for each voyage. You can edit any report and it will automatically update the system.



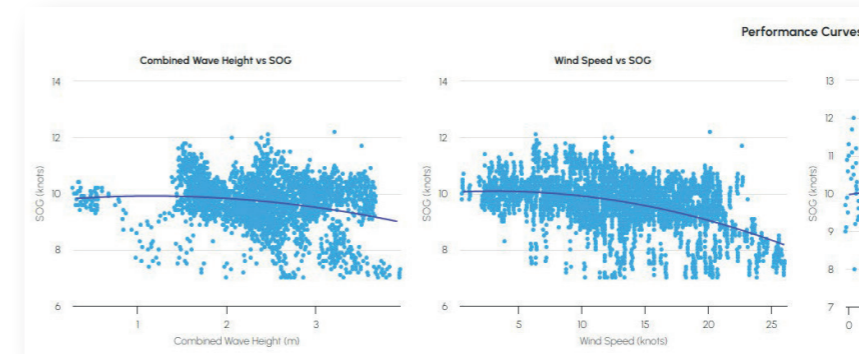
We take into account that your voyage has many different scenarios. Build in off-hire time for your SOA, or simply exclude time in ports.

# Filter your Performance Parameters



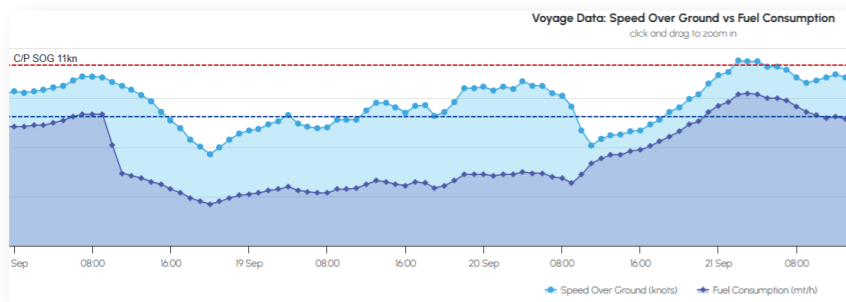
Filter results by entering the Charter Party parameters to assess the good weather results or alter various climate parameters to show various outcomes.

# State of the Art Performance Curves based on Big Data



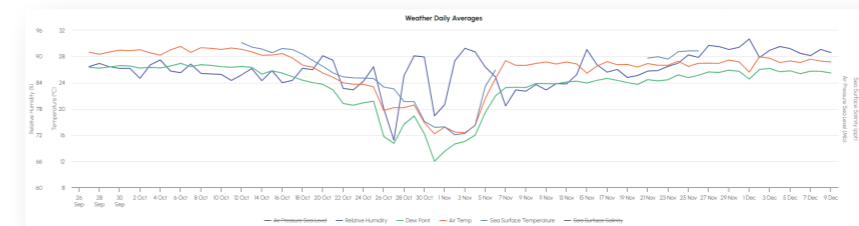
Performance curves built on big data show capability in any seaway. World's first real-time big data curves!

# Zoom In Features for Insights



Big data enables deep insights into performance.

# To Ventilate or Not to Ventilate - That is the question



Hygroscopic cargo is prone from sweat. Monitor Air, Sea, DP, and RH.

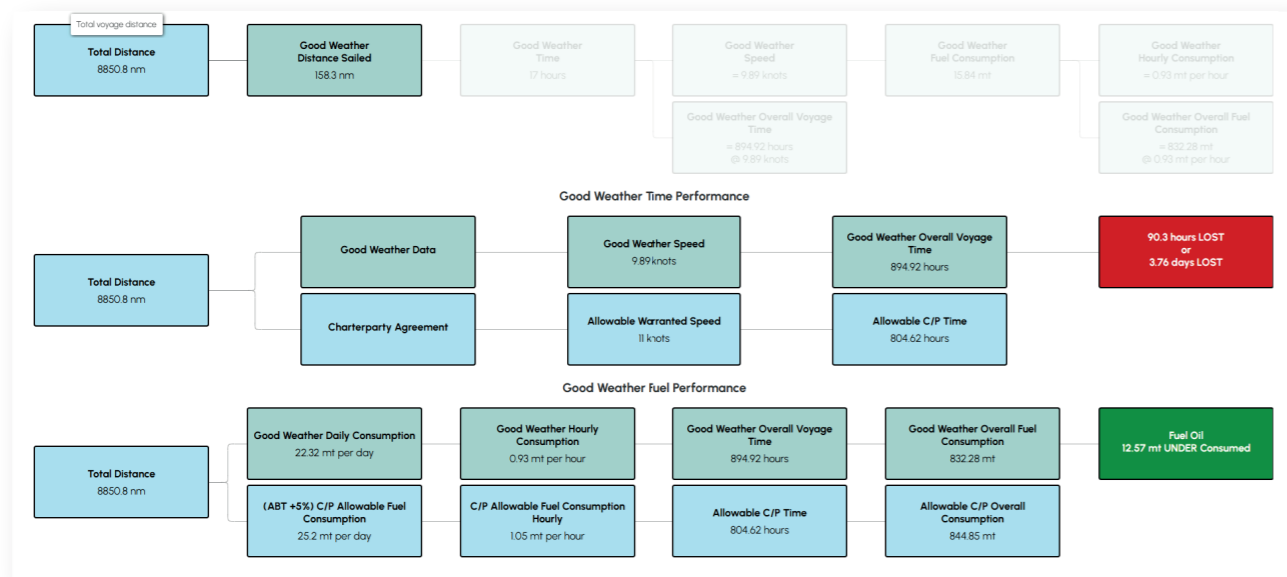


Plan subsequent voyages with greater assurance.



Know your ships capabilities in every seaway.  
Plan voyages with greater confidence.  
Understand cargo damage and how best to avoid it.

# Automatic Good Weather Calculation



The Didymi Good Weather Calculation for all fuel types. Can be adjusted to any C/P type – NYPE, BOXTIME, ShellNGtime 2 etc.

## Emissions Covered

CII, EEOI, EEXI, EU ETS – THETIS FORMAT  
CO2, NOX, SOX, PM, CH4.



Quality assured and checked. Master mariner vetted.  
Accurate, reliable and credible.



