

WACDAS

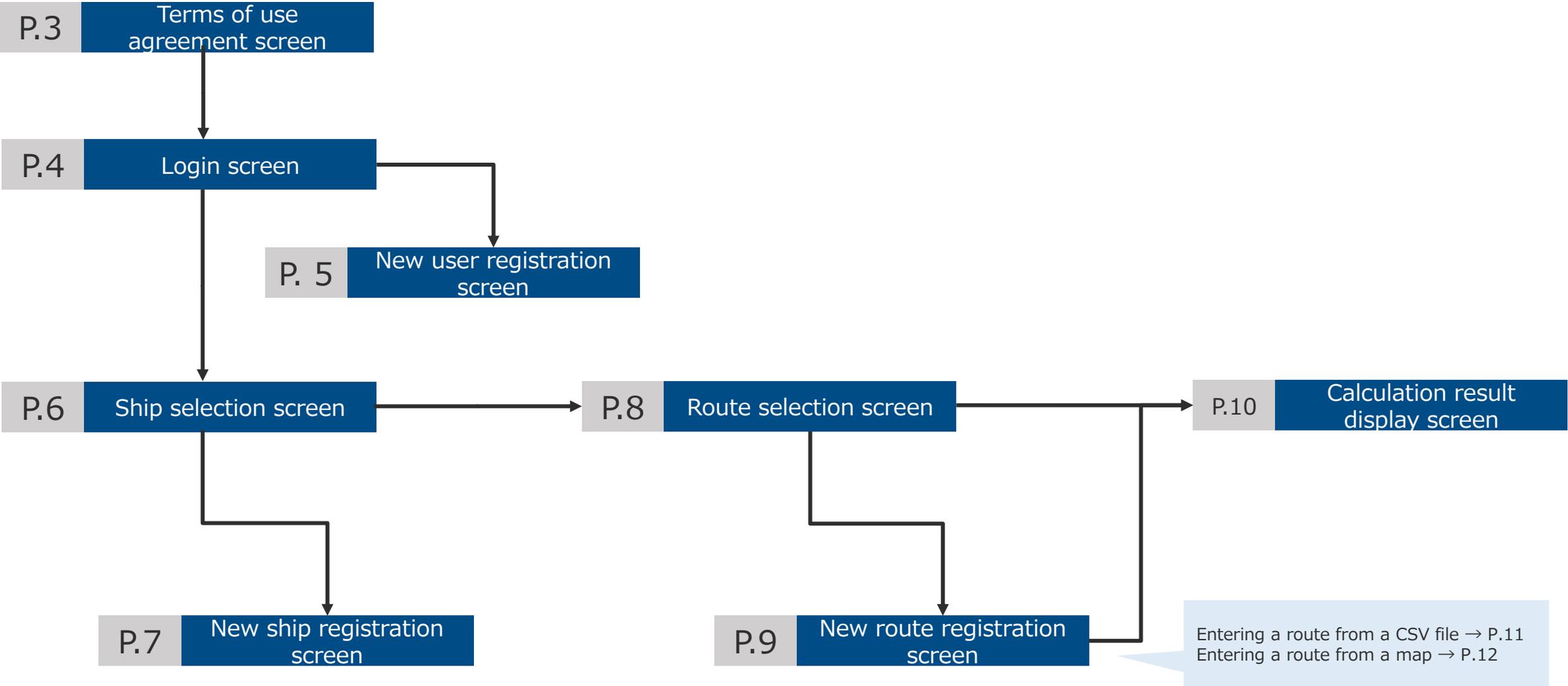
WAve Climate Data Aggregation for Ships

Instruction Manual

Ver 2.0

To use WACDAS, lashing software (CSSA-RS notation) compliant with ClassNK Guidelines for Container Stowage and Securing Arrangements ver. 3.0 or later (2023) is required onboard. Not available for lashing software compliant with ver. 2.1 or earlier (2020) or other classification rules.

*The screen in this manual is under development and may differ from the actual screen.



When you access WACDAS, the Terms and Conditions agreement screen will be displayed first.

ClassNK WACDAS

Important notice

To use WACDAS, lashing software (CSSA-RS notation) compliant with ClassNK Guidelines for Container Stowage and Securing Arrangements ver. 3.0 or later (2023) is required onboard. Not available for lashing software compliant with ver. 2.1 or earlier (2020) or other classification rules.

By continuing, you agree to our [Terms and Conditions / 利用規約](#).

[Continue to App](#)

You can check the Terms and Conditions of WACDAS from these links.

By pressing "Continue to App," you accept the Terms and Conditions and go to the login screen (→ P.4) or go directly to the ship selection screen (→ P.6) if WACDAS still have your login information.

Please log in with your account.

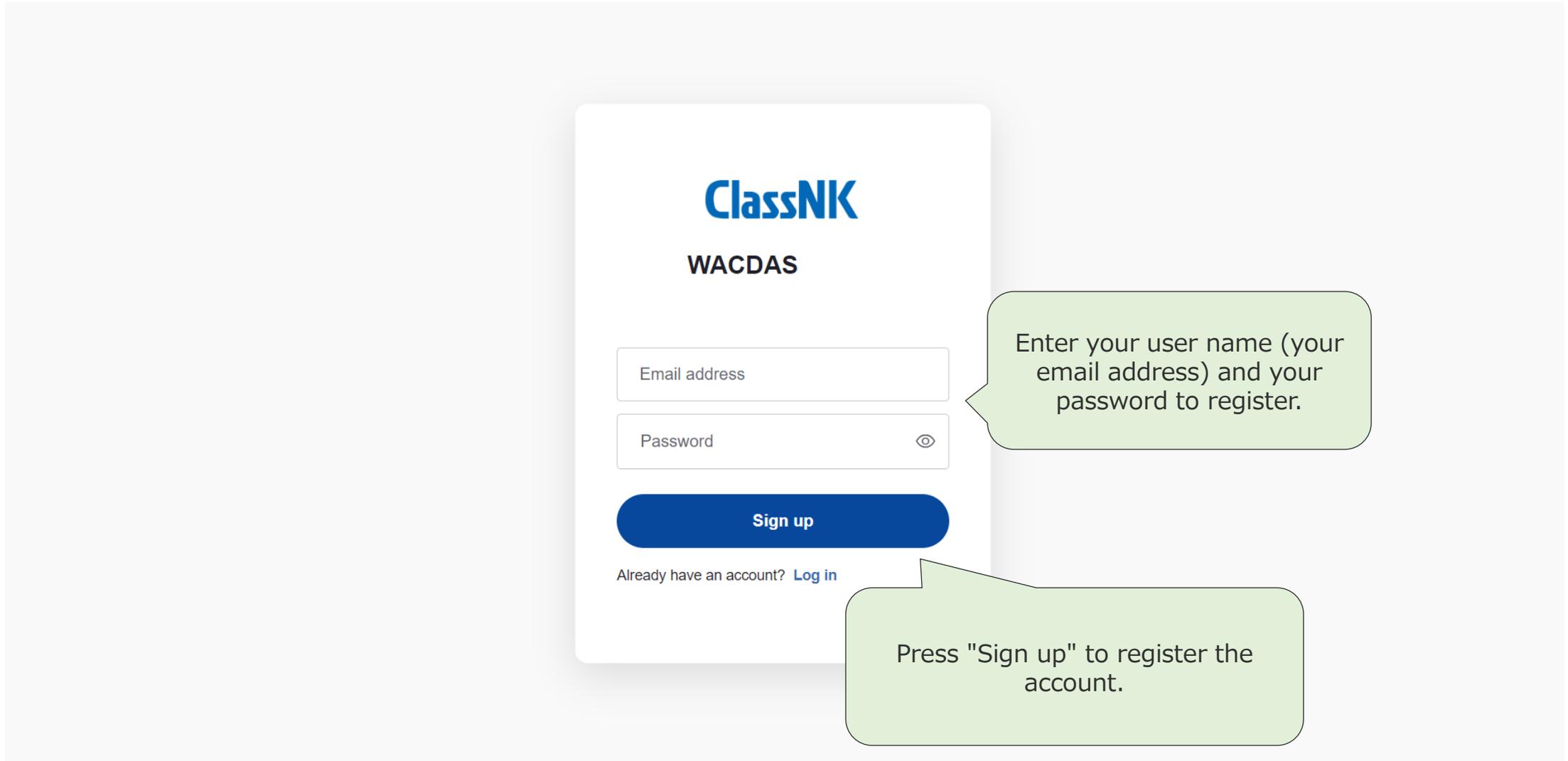
The screenshot shows the ClassNK WACDAS login interface. At the top is the ClassNK logo, followed by 'WACDAS' and 'LOG IN'. There are two input fields: 'Email address' and 'Password'. Below the password field is a link for 'Forgot password?'. A blue 'Log in' button is centered below the fields. At the bottom, there is a link for 'Don't have an account? Sign up'. Three callout boxes provide additional information: one points to the 'Forgot password?' link, another points to the 'Email address' and 'Password' fields, and a third points to the 'Sign up' link.

If you have an account but lost your password, please reissue your password from here.

Enter your user name (your email address) and password.

If you do not have an account, please register from here. (→P.5)

If you are a new user, you can register a new user in this screen.



The screenshot shows a registration form for ClassNK WACDAS. The form includes a logo at the top, followed by the text 'WACDAS'. Below this are two input fields: 'Email address' and 'Password'. The 'Password' field has a toggle icon (an eye) to the right. A blue 'Sign up' button is positioned below the input fields. At the bottom of the form, there is a link that says 'Already have an account? Log in'. Two green callout boxes provide instructions: one points to the input fields with the text 'Enter your user name (your email address) and your password to register.', and the other points to the 'Sign up' button with the text 'Press "Sign up" to register the account.'

ClassNK

WACDAS

Email address

Password 

Sign up

Already have an account? [Log in](#)

Enter your user name (your email address) and your password to register.

Press "Sign up" to register the account.

The list of ships associated with the account is displayed. Please select the ship on which you want to calculate, and the screen to select routes will be displayed(→P.8).

In any screen, click here to return to this ship selection screen.

The list of ships registered in the past with the logged-in account is displayed.

SHIP NAME ^	IMO NO.	CLASS NO.	Lpp(m) ⇅	B(m) ⇅	D(m) ⇅	df(m) ⇅	ROUTES ⇅	ACTION
TEST 2	3333333		387	58.8	20	16	1 route	⋮
TEST 3	0000000	000000	250	32.6	20	12.5	0 routes	✎ Edit 📄 Duplicate 🗑 Delete
TEST SHIP	0000000	000000	200	32.6	18	12.5	1 route	
TEST SHIP (1)	0000000	000000	200	32.6	18	12.5	1 route	⋮

In "Search," you can search by ship name (partial match), IMO number (exact match), and class number (exact match).

Press "Sign Out" to log out.

If you want to calculate on a ship that is not listed, add a new ship from here (→ P.7).

You can edit, delete, or duplicate the ship information from "ACTION."
In the duplication, each route registered for the ship is also duplicated.

The number of routes registered on that ship is displayed. Clicking this number of routes takes you to the route selection screen (→ P.8).

When you want to calculate on a ship that is not in your ship list, please register a new ship.

The ship name is required. In addition, the IMO number and class number can be entered for searching.

Enter the hull parameters required to calculate the route correction factor. Please refer to the approved CSM/CSA or the approved lashing software test report for the parameters. If you have any troubles, please contact NIPPON KAIJI KYOKAI Hull Department (hld@classnk.or.jp).

The GM automatically displays default values depending on the hull parameters entered. It is also possible to use the value entered by the user in the route input screen (P.9) for calculation.

* indicates required fields.

When all the required input items are entered, please press "Create ship". The ship information will be saved and you will return to the ship selection screen (→ P.6).

Route selection screen

The list of routes associated with the ship you selected is displayed. Please select a route you want to calculate, and the screen of calculation result will be displayed.

← Ships **ClassNK WACDAS** **V2.0.0** **Info** **English** **ID:** **Sign Out**

Routes
TEST SHIP / IMO No. 0000000 / Class No. 000000

Search

+ Add New Route

ROUTE NAME ^	FROM ↕	TO ↕	GM ↕	MAP	ACTION
test route1	Tokyo	L.A.	2.13		
test route1 (1)	Tokyo	L.A.	2.13	Calculate Route	

Edit
Duplicate
Delete

↓ Pop-up map display image

test route1

Returns to the ship selection screen (→ Page 6).

You can search by route name in "Search."

A list of routes registered in the past for the selected vessel is displayed.

If the route has been calculated in the past (for example, test route1), clicking the route name takes you to the calculation result display screen (→ P.10).

If the route has not been calculated in the past (for example, test route1 (1)), clicking "Calculate Route" takes you to the calculation result display screen (→ P.10).

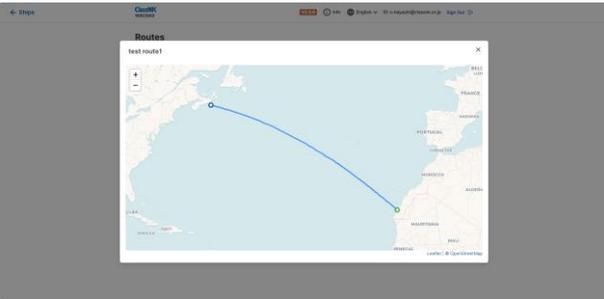
Displays the name of the ship whose route correction factor is to be calculated. It is possible to calculate the coefficient and save the result in various routes for the same ship.

If you want to perform calculations on routes that are not listed, add a new route from here (→ P.9).

You can edit, delete, or duplicate the route information from "ACTION".

When MAP is pressed, the route is displayed as a pop-up map.

You can check the route without going to the calculation result display screen.



You can register a new route.

Enter the route information. The route name, departure point, and arrival point must be entered.

Enter the route (latitude, longitude). You can enter from a CSV file or by clicking the map.
For details on entering routes, see P.11-12.

If you input the route as a CSV file, please update it from "Input from CSV."
When the update is completed, the route you input will be displayed on the map.
(Details: P.11)

The GM automatically displays the default value according to the entered hull parameter and is used for calculation, but you can also use the value you enter yourself for calculation.

You can enter routes by right-clicking the points you want to pass from the departure point to the arrival point on the map. (Details: P.12)

If you want to reset the entered route, press "Reset Route".

When you have finished inputting route information and route information, press "Save and Calculate" to move to the calculation result display (→ P.10). When you press "Save Route," the calculation is not performed, only the route is saved, and the display returns to the route selection screen (→ P.8).

Calculation result display screen

The calculation result is displayed. You can also download the result as a Word file.

The route used for the calculation is displayed on the map.

The calculation result is displayed.
The route correction factor is displayed for every 12 months.

Calculation Results
TEST SHIP / IMO No. 0000000 / Class No. 0000000

Route Information

Route Name	test route1
From	Tokyo
To	L.A.

Sea and Route Seasonal Correction Factor

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Sp (for pitch)	1.00	1.00	1.00	0.99	0.95	0.90	0.76	0.86	1.00	1.00	1.00	1.00
Sθ (for roll)	0.96	0.97	0.95	0.75	0.85	0.65	0.65	0.85	0.93	0.92	0.87	0.96

Design Effective Wave Height

The design effective wave height in the table indicates the significant wave height assumed for calculating the correction factor. The master shall endeavor to keep the encounter wave height lower than the design wave height during their voyage.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Hs (Design effective wave height)	12.5	12.6	12.1	10.7	9.7	9.2	8.3	8.8	12.1	10.8	11.3	12.4

GM (Metacentric height)

2.13 meters

The above Correction Factor and Design Effective Wave Height values are based on the above GM value. In case actual GM of planned voyage is higher than this GM value, re-calculation should be executed using the actual GM.

View Waypoints

Latitude	Longitude
44.33956524809713	-61.3124978542328
23.17672475847503	-15.25781035423279

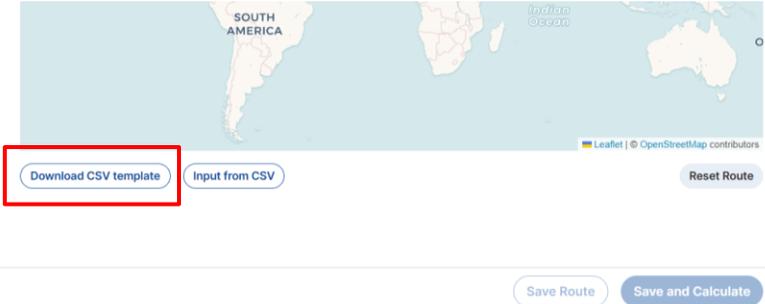
Download Results

"Edit" returns to the route edit screen.

Displays the latitude and longitude of the route used in the calculation.
You can save a CSV file, which you can use in the route input screen of another vessel to input the same route for another vessel.

Click here to download the calculation results as a Word file.

① Download the template of the CSV file from "Download CSV template"

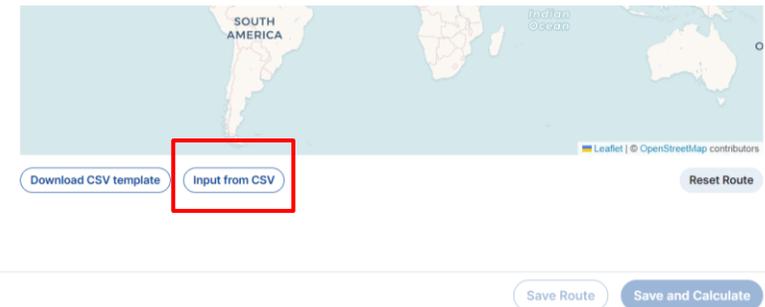


② Enter the longitude and latitude of the route in the CSV file.

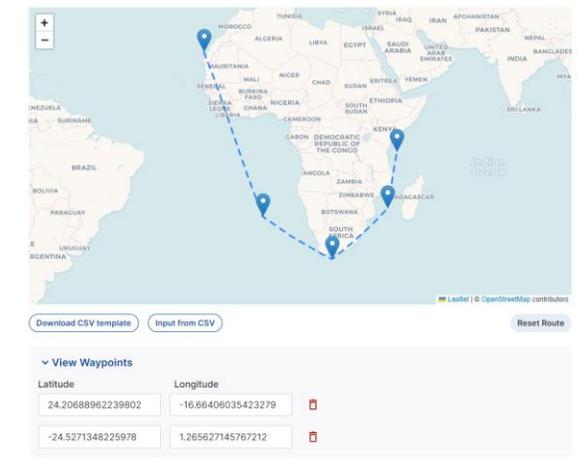
A	B	C	D	E	F	G	H	I
Latitude	Longitude							
24.20689	-16.6641	Departure						
-24.5271	1.265627							
-35.7465	22.35938							
-22.2688	39.23438							
-5.61599	42.04688	Arrival						

One line (latitude/longitude pairs) represents one waypoint. Please enter in order from top to bottom.

③ Upload the CSV file created in ② from "Input from CSV."



④ When the CSV file has been uploaded, the entered route will be displayed on the map. If there is no problem, use "Save and Calculate" to calculate or "Save Route" to save the route.



Entering a route from a Map (Page 9: New route registration screen)

①-1 Please double-click a map to add the location to the route.



①-2 Alternatively, right-click a map to display the "Add waypoint" popup. Press "Add waypoint" to add the point to the route.

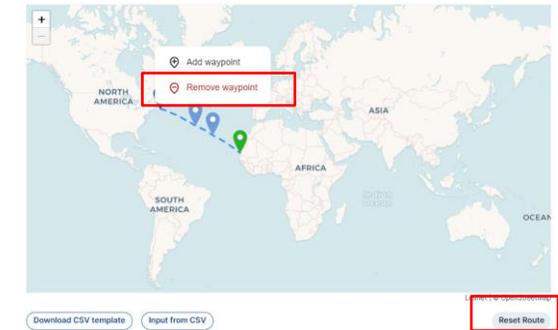


② Repeat ① to enter the route. If there is no problem, use "Save and Calculate" to calculate or "Save Route" to save the route.

(Note) You can delete only a point by right-clicking on it and pressing "Remove waypoint." On the other hand, pressing "Reset Route" will delete all routes you entered.



Departure point: navy blue
Interval points: light blue
Arrival point: green
in the Scene View.



- Operations on the map:
 - Right-click: Add or remove points on a route
 - left drag: moving map
 - scroll: zooming in and out of map