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CMAXS

Abstract Log Control System
(Shipboard System)

Operation Manual

IMC Co., Ltd.

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1. General

This System facilitates the control of Abstract Log Data, making various output forms and making performance analysis by using the Abstract Log Data entered at each voyage.

It consists of two systems for Headquarters System and Shipboard System to be installed on the ships managed under this system.

1. 1 Major function

○ : Available × : Not available

Item	Function	Headquarters System	Shipboard System	Remarks
Abstract Log Data	Input/Modification/Deletion	×	○	Chapter 5
	Reference	○	○	
Various Forms	Reference /Printing	○	○	Chapter 6
	Additional Input	×	○	
Engine Perform. Report	Input/Modification/Deletion	×	○	Chapter 7
	Reference	○	○	
Performance Analysis	Reference	○	○	Chapter 8
Data Transmission	Export	×	○	Chapter 9
	Import	○	×	-
Master Data	Input/Modification	×	○	Chapter 10
	Reference	○	○	
Data Backup/ Restore	Data backup、Data restore	○	○	Chapter 11

1. 2 Operational procedure

Ship

At the start of voyage
On a voyage
At the end of voyage



- Commenced Voyage Data
- Departure Data
- Noon Data
- Arrival Data
- Completed Voyage Data

- Input of abstract log data
(Chapter 5/Page6)

Once per half voyage



- Input of engine performance report
(Chapter 7/Page30)

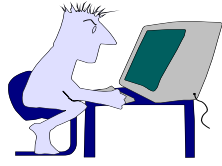
At pleasure



- Printing and keeping of various forms
(Chapter 6/Page25)
- Reference and evaluation of
performance analysis results
(Chapter 8/Page31)

If abstract log data is sent from the ship everyday, HQS system can be referred latest report and analyzed results,

Everyday



- Data export
(Chapter 9/Page40)

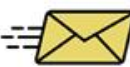


Sending of abstract log data by E-mail

At the end of voyage



- Data export
(Chapter 9/Page40)
- Data backup
(Chapter 11/Page42)



Sending of Performance Report data by E-mail

INMARSAT



HQ



Receiving of abstract log data by E-mail

- Data import
- Printing and keeping of various forms
- Reference and evaluation of
performance analysis results
- Data backup

2. Startup of the system

1. On the MS-Windows desktop screen, double click in order of “CMAXS-AD Abstract Log Control System” icon.
2. “Login screen” (Fig.2-2) is displayed.
3. Enter the password and select [Enter].
Factory setting of password is “cap”(half size and small of character).
(Regarding change of password, refer chap.13.)
4. “Guidance screen”(Fig.2-3) is displayed
If you put check mark on the check box,
“Guidance Dialog”→“Menu screen” is displayed automatically from next time.
5. Select [Close].
“Main Menu screen”(Fig.2-4) is displayed.
You can start the system operation.

Fig.2-1 CMAXS-AD Abstract Log Control System icon

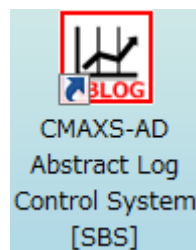


Fig.2-2 Login screen

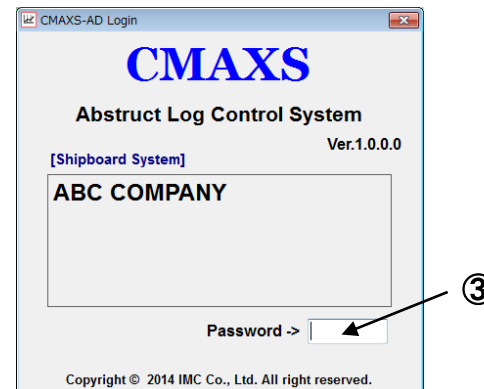


Fig.2-3 Guidance screen

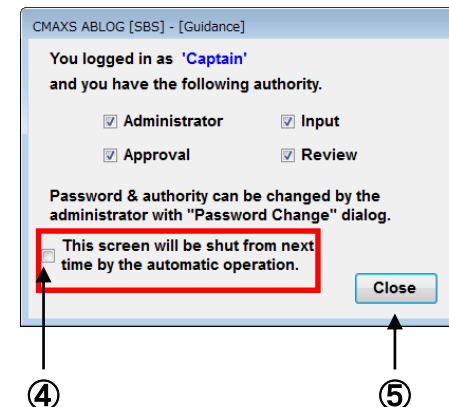
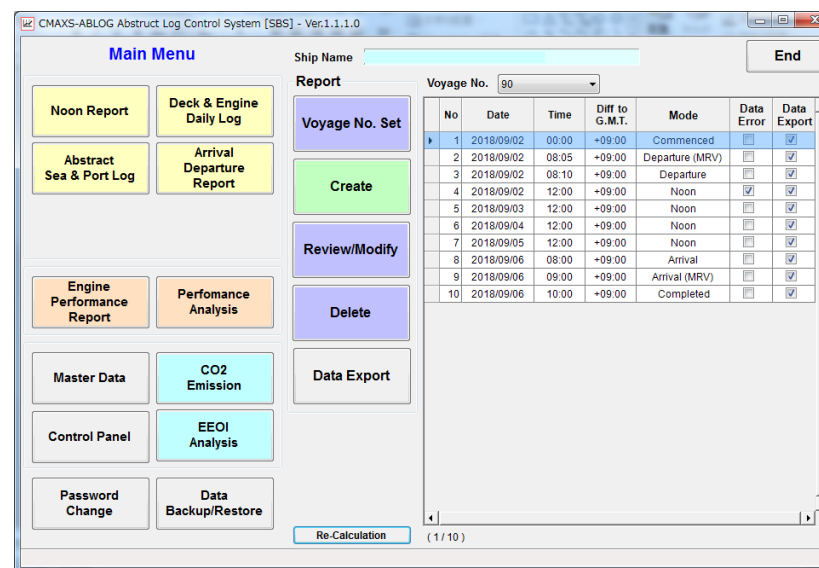


Fig.2-4 Main Menu screen



3. Finishing of the system

1. On the “Main Menu screen”(Fig.3-1), select [End].

Confirmation message screen for finishing is displayed, then select [OK].

Also, the system can be finished on the every screen by selecting [X] of the upper right portion on the screen.

2. The system is finished and returned to MS-Windows desktop screen.

Fig.3-1 Main Menu screen

Main Menu

Ship Name:

Voyage No.

Report

Voyage No. Set

Create

Review/Modify

Delete

Data Export

Re-Calculation

(1 / 10)

No	Date	Time	Diff to G.M.T.	Mode	Data Error	Data Export
1	2018/09/02	00:00	+09:00	Commenced	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	2018/09/02	08:05	+09:00	Departure (MRV)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	2018/09/02	08:10	+09:00	Departure	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	2018/09/02	12:00	+09:00	Noon	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	2018/09/03	12:00	+09:00	Noon	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	2018/09/04	12:00	+09:00	Noon	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	2018/09/05	12:00	+09:00	Noon	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	2018/09/06	08:00	+09:00	Arrival	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	2018/09/06	09:00	+09:00	Arrival (MRV)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	2018/09/06	10:00	+09:00	Completed	<input type="checkbox"/>	<input checked="" type="checkbox"/>

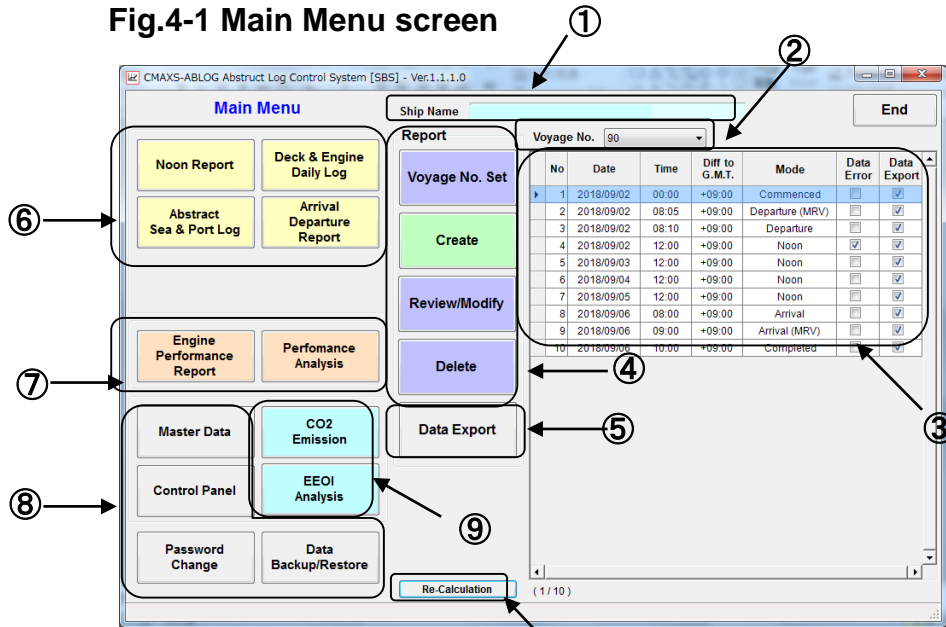
①-2

①-1

4. Display configuration

Main Menu screen of the system is consisted the following category and menu.

Fig.4-1 Main Menu screen



- (1) Ship Name
- (2) Voyage No.
- (3) Abstract Log Data list for voyage
- (4) Operation button for making Abstract Log Data
 - Voyage No. Set
Voyage No. and Date can be set.
 - Create
New Abstract Log Data can be made.
 - Review/Modify
Abstract Log Data can be referred/modified.
 - Delete
Abstract Log Data can be deleted.
- (5) Data Export button
 - Data Export
Export data for Abstract Log Data to send HQ can be made.

- (6) Operation button for displaying various forms
 - Noon Report
 - Deck & Engine Daily Log
 - Abstract Sea & Port Log
 - Arrival/Departure Report
- (7) Operation button for displaying performance analysis results
 - Engine Performance Report
Engine Performance Report can be made.
 - Performance Analysis
Performance analysis results can be referred.
- (8) Operation button for others
 - Master Data
Ship information and trial data can be set.
 - Control Panel
Unit, Database Folder and Password can be set.
 - Password Change
Password can be set.
 - Data Backup/Restore
Data Backup/Restore can be made.
- (9) Analysis button for CO2 emission and EEOI.
 - CO2 emission
Reference for CO2 emission of EU-MRV and IMO DCS.
 - EEOI
Reference for CO2 emission of EEOI.
- (10) Recalculation button
This button is used for recalculating of report data, when recalculation is needed for version update and so on.

5. When you want to make new voyage

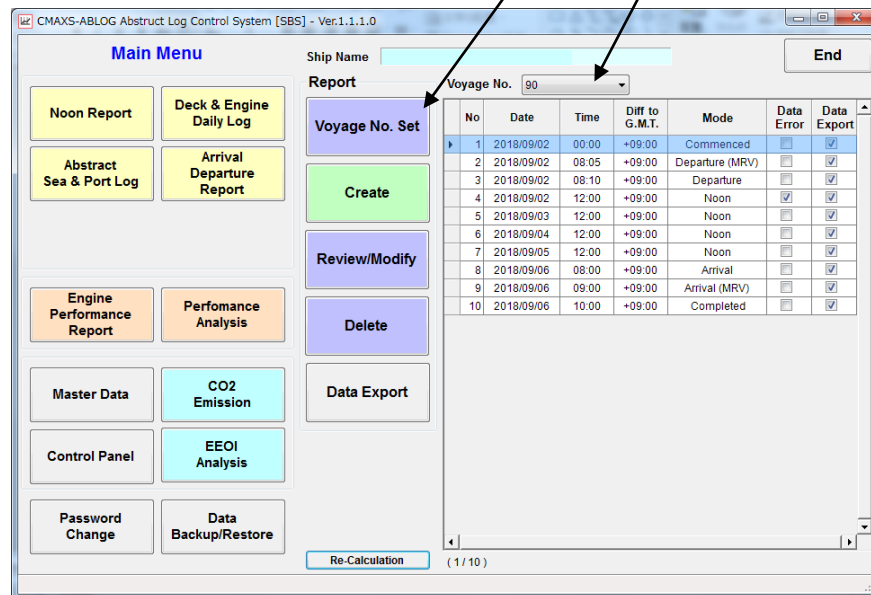
When you want to make new voyage, at the first setout, set the Voyage No. and Date in accordance with Chap.5.1.

After that, input the voyage data for each mode in accordance with Chap.5.2~5.6. (Note that you can't make new voyage, if previous voyage isn't completed,)

<Mode of voyage data>

- Commenced Voyage : Commenced voyage data
- Noon : Noon data
- Arrival : Arrival data
- Arrival (MRV) : Arrival data for EU-MRV
- Departure : Departure data
- Departure (MRV) : Departure data for EU-MRV
- Completed Voyage : Completed voyage data

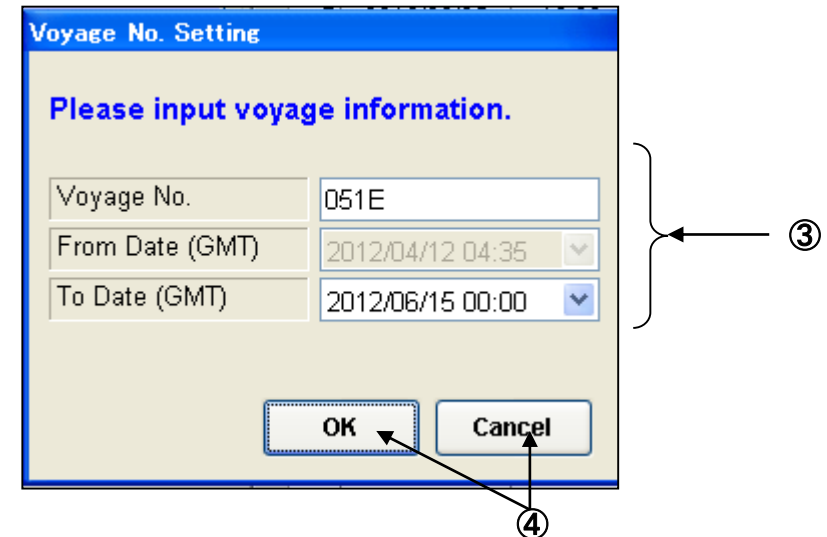
Fig.5-1 Main Menu screen



5. 1 Setting of "Voyage No."

1. When you want to make new voyage, select "New" of the Voyage No. field on the "Main Menu screen"(Fig.5-1). "Commenced Voyage Data" as start voyage is made automatically on the voyage data list.
2. Select [Voyage No. Set].
3. "Voyage No. Setting screen"(Fig.5-2) is displayed. Enter the subject Voyage No. and Date.
4. Select [OK]. If you want to cancel, select [Cancel].

Fig.5-2 Voyage No. Setting screen



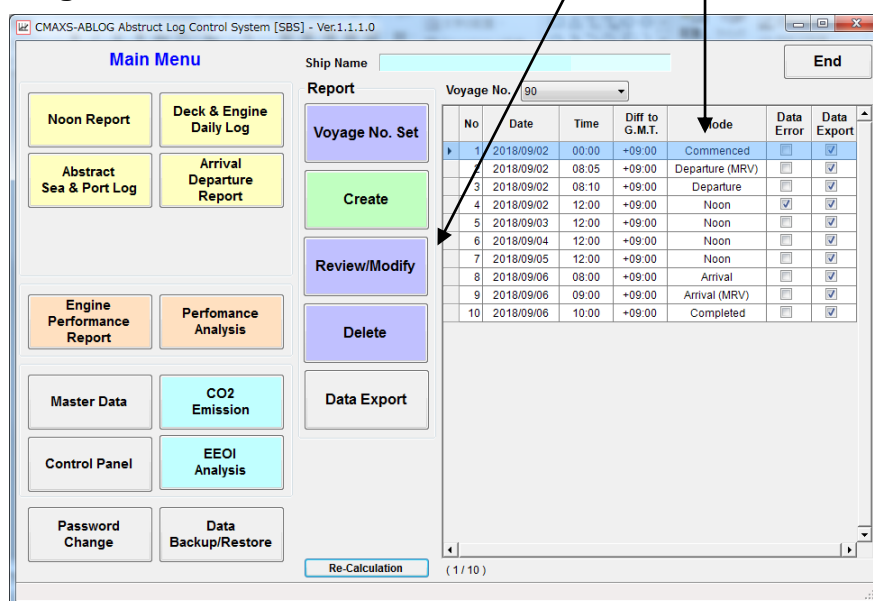
- Voyage No. : Voyage Number
- From Date (GMT) : Commenced voyage date (GMT)
- To Date (GMT) : Completed voyage date (GMT)

(Note) From Date(GMT) and To Date(GMT) are automatically amended by entering of Commenced, Completed Voyage Data.

5. 2 Input of “Commenced Voyage Data”

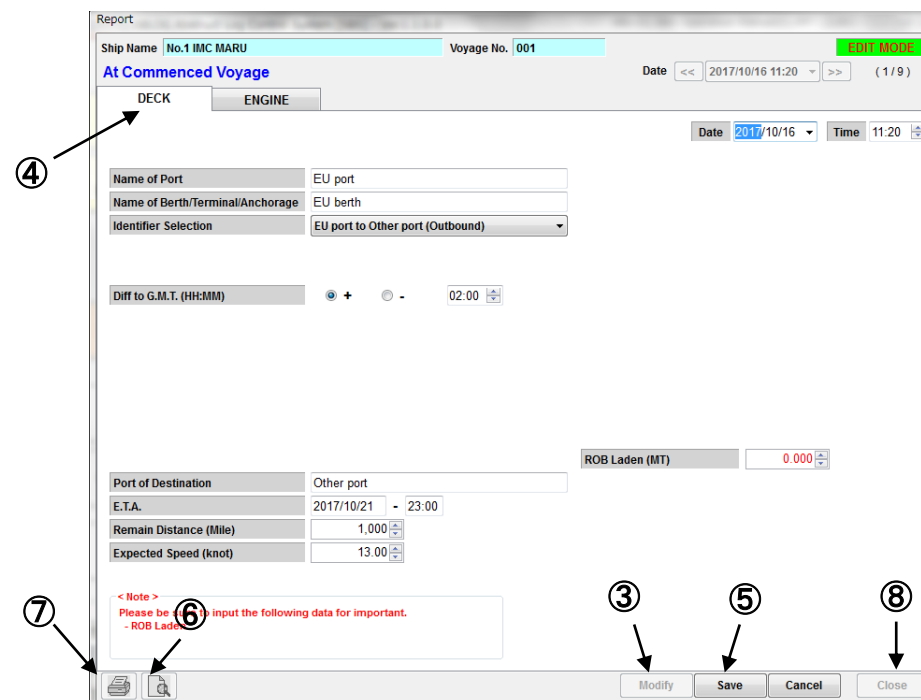
1. On the “Main Menu screen”(Fig.5-3), Commenced Voyage Data is selecting.
2. Select [Review/Modify].

Fig.5-3 Main Menu screen



3. “At Commenced Voyage(Deck) screen”(Fig.5-4) is displayed. Select [Modify] to change to EDIT MODE. And then, enter the necessary data.
4. You can change screen for Deck and Engine by selecting [DECK] or [ENGINE] tab.
5. After finish the entering, select [Save] to save data.
6. If you want to see print preview, select [Print Preview].
7. If you want to make print, select [Print].
8. If you want to return to “Main Menu screen”, select [Close].

Fig.5-4 At Commenced Voyage (Deck) screen



<Display item>

- Name of Port
- Name of Berth/Terminal/Anchorage
- Identifier Selection : Identifier for kind of voyage.
- Diff to G.M.T. (HH:MM) : Time difference with G.M.T.
- Port of Destination
- E.T.A.: Estimated time of arrival (Local Time of Destination)
- Remain Distance (Mile)
- Expected Speed (knot)
- ROB Laden (M/T) :
Remain on board of Cargo

Fig.5-5 At Commenced Voyage (Engine) screen

Report

Ship Name **No.1 IMC MARU** Voyage No. **001** EDIT MODE

At Commenced Voyage Date << 2017/10/16 11:20 >> (1 / 9)

DECK ENGINE

Date 2017/10/16 Time 11:20

ROB

MGO (MT)	10.00
MDO (MT)	20.00
LSFO (MT)	30.00
HSFO (MT)	40.00
FW (MT)	50
Cyl. Oil (L)	1,500
Sys. Oil - M/E (L)	2,300
Sys. Oil - G/E (L)	0
#1 T/C Bear'g Oil (L)	0
#2 T/C Bear'g Oil (L)	0
Ref'tor Oil (L)	18
Comp'or Oil (L)	20
Hyd. Oil (L)	2,000
Kerosene (L)	200

Modify Save Cancel Close

<Display item>

Remain on board

●MGO (M/T) : Gas Oil

●MDO (M/T) : Diesel Oil

●FO (M/T) : Fuel Oil

●FW (M/T) : Fresh Water

(Include Boiler W., T/C F.W., FW, Drink.W.)

●Cyl. Oil (L) : Cylinder Oil

●Sys. Oil - M/E (L) : M/E System Oil

●Sys. Oil - G/E (L) : G/E System Oil

●T/C Bear'g Oil (L) : T/C Bearing Oil

●Refer Oil (L) : Refer Oil

●Comp'or Oil (L) : Compressor Oil

●Hyd. Oil (L) : Hydraulic Oil

●Kerosene (L) : Kerosene

5. 3 Input of “Departure Data”

1. On the “Main Menu screen”(Fig.5-6), select [Create].
In addition, if you want to modify data already saved, select data on the list, and then select [Review/Modify].
2. “Mode Select screen”(Fig.5-7) is displayed.
Select “Departure” or “Departure” from among option button.
3. Select [OK]. If you want to cancel, select [Cancel].

Fig.5-6 Main Menu screen

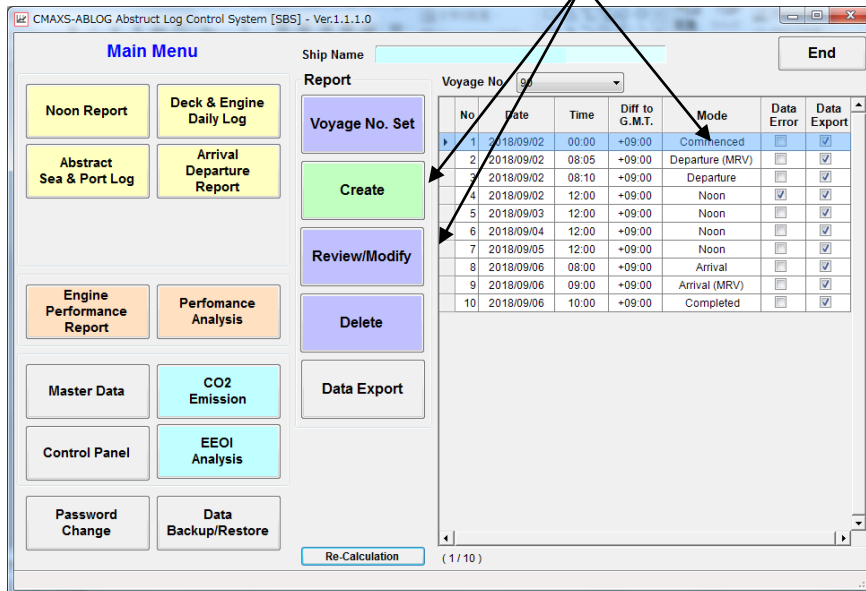
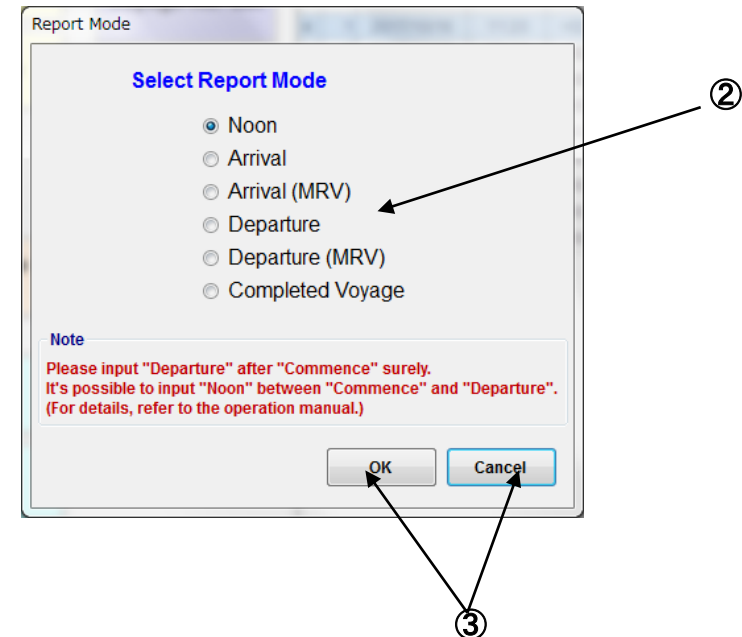


Fig.5-7 Mode Select screen



< Mode selection >

- Noon : Entering for Noon Data
- Arrival : Entering for Arrival Data
- Arrival (MRV) : Entering for Arrival Data of definition of EU-MRV
- Departure : Entering for Departure Data
- Departure (MRV) : Entering for Departure Data of definition of EU-MRV
- Completed Voyage : Entering for Completed Voyage Data

(Note) Commenced Voyage Data is automatically created, if you select “New” of Voy.No. to make new voyage.

Fig.5-8 At Departure (Deck) screen

<Display item>

●Ship to Ship transfer : Please make sure to select it if STS operation

●Name of Port

●Name of Berth/Terminal/Anchorage

●Identifier Selection

●Clock (min.) : Ahd - Ahead Abk - Aback

●Diff to G.M.T. (HH:MM) : Time difference with G.M.T.

●Draft (m)

●Displacement (MT)

●Port of Destination

●E.T.A.: Estimated time of arrival (Local Time of Destination)

●Remain Distance (Mile)

●Expected Speed (knot)

●Hours (HH:MM) :

[1] In Port

Shifting in Port

Cargo Work

●Actual diff. hour from Last Report - [1]

(Note) If actual elapsed time from last report (add Diff to G.M.T.) doesn't add up with the value of [1], check mark is put in the "Data Error" field of data list on the "Main Menu screen". In this case, please check the entered data.

●ROB Laden (M/T) :

Remain on board of Cargo

4. "At Departure(Deck) screen"(Fig.5-8) is displayed.

Enter the necessary data.

If you opened by [Review/Modify], select [Modify] to change to EDIT MODE. And then, enter the necessary data.

5. You can change screen for Deck and Engine by selecting [DECK] or [ENGINE] tab.

6. After finish the entering, select [Save] to save data.

7. If you want to see print preview, select [Print Preview].

8. If you want to make print, select [Print].

9. If you want to return to "Main Menu screen", select [Close].

Fig.5-9 At Departure (Engine) screen

Report

Ship Name **No.1 IMC MARU** Voyage No. **001** EDIT MODE

At Departure Date << 2017/10/18 09:00 >> (5/9)

DECK ENGINE

Date 2017/10/18 Time 09:00

Supply	ROB	Consumption
MGO (MT) 0.00	8.00	Cyl. Oil (L) 0
MDO (MT) 0.00	15.00	Sys. Oil - M/E (L) 0
LSFO (MT) 0.00	33.60	Sys. Oil - G/E (L) 0
HSFO (MT) 0.00	43.90	FW Boiler (MT) 0
FW (MT) 0	55	FW Tk Clean'g (MT) 0
Ballast Water (MT) 0	0	FW General (MT) 0
Cyl. Oil (L) 0	1,500	LSFO M/E (MT) 0.10
Sys. Oil - M/E (L) 0	2,300	LSFO G/E (MT) 0.10
Sys. Oil - G/E (L) 0	0	LSFO Boiler (MT) 0.00
		HSFO M/E (MT) 0.00
		HSFO G/E (MT) 0.00
		HSFO Boiler (MT) 0.00
		MGO M/E (MT) 0.00
		MGO G/E (MT) 0.00
		MGO Boiler (MT) 0.00
		MGO C/E (MT) 0.00
		MDO M/E (MT) 0.00
		MDO G/E (MT) 0.00
		MDO Boiler (MT) 0.00
		MDO C/E (MT) 0.00

Generated

FW (MT) 0

Modify Save Cancel Close

<Display item>

Supply and remain on board

- MGO (M/T) : Gas Oil
- MDO (M/T) : Diesel Oil
- FO (M/T) : Fuel Oil
- FW (M/T) : Fresh Water
- Ballast Water (M/T) : Ballast Water
- Cyl. Oil (L) : Cylinder Oil
- Sys. Oil - M/E (L) : M/E System Oil
- Sys. Oil - G/E (L) : G/E System Oil

Distilling quantity

- FW (M/T) : Fresh Water

Consumption (within actual lapsed time from previous report)

- Cyl. Oil (L) : Cylinder Oil
 - Sys. Oil - M/E (L) : M/E System Oil
 - Sys. Oil - G/E (L) : G/E System Oil
- (Note) Consumption of M/E and G/E Sys.Oil are expressed in consumption within berthing time from Arrival to Departure.

- FW Boiler (M/T) : Boiler Fresh Water
 - FW Tk Clean'g (M/T) : Tank Cleaning Fresh Water
 - FW Crew (M/T) : Crew Fresh Water
- (Note) Consumption of FW Crew is expressed in consumption for all general service including Drinking Water other than Boiler, Tank Cleaning, Disposal.

- FW Disposal (M/T) : Disposal Fresh Water
- FO M/E (M/T) : M/E Fuel Oil
- FO G/E (M/T) : G/E Fuel Oil
- FO Boiler (M/T) : Boiler Fuel Oil
- MGO M/E (M/T) : M/E Gas Oil
- MGO G/E (M/T) : G/E Gas Oil
- MGO Boiler (M/T) : Boiler Gas Oil
- MGO C/E (M/T) : C/E Gas Oil
- MDO M/E (M/T) : M/E Diesel Oil
- MDO G/E (M/T) : G/E Diesel Oil
- MDO Boiler (M/T) : Boiler Diesel Oil
- MDO C/E (M/T) : C/E Diesel Oil

5. 4 Input of “Noon Data”

- 1. On the “Main Menu screen”(Fig.5-10), select [Create].
In addition, if you want to modify data already saved, select data on the list, and then select [Review/Modify].
- 2. “Mode Select screen”(Fig.5-11) is displayed.
Select “Noon” from among option button.
- 3. Select [OK]. If you want to cancel, select [Cancel].

Fig.5-11 Mode Select screen

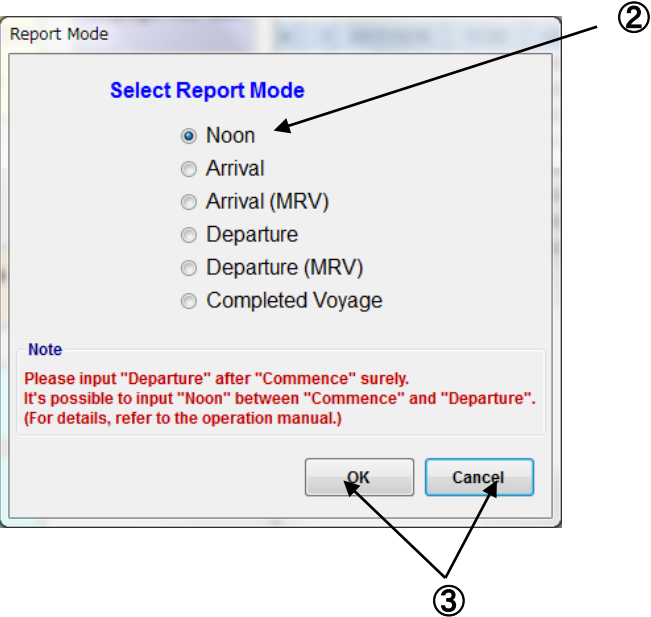
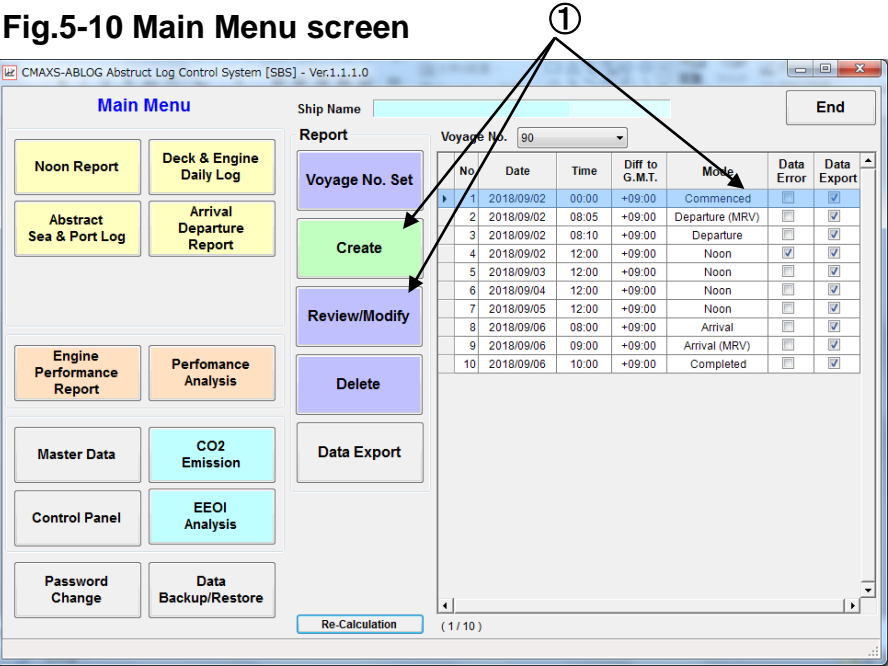


Fig.5-10 Main Menu screen



< Mode selection >

- Noon : Entering for Noon Data
- Arrival : Entering for Arrival Data
- Arrival (MRV) : Entering for Arrival Data of definition of EU-MRV
- Departure : Entering for Departure Data
- Departure (MRV) : Entering for Departure Data of definition of EU-MRV
- Completed Voyage : Entering for Completed Voyage Data

(Note) Commenced Voyage Data is automatically created, if you select “New” of Voy.No. to make new voyage.

Fig.5-12 At Noon (Deck) screen

<Display item>

- Identifier Selection
- Noon Position : Latitude, Longitude
- Clock (min.) : Ahd - Ahead Abk - Aback
- Diff to G.M.T.(HH:MM) : Time difference with G.M.T.
Mean=Average within actual
lapsed time from previous report
- Weather
- Wind Force
Noon-Beaufort Scale
Mean-Beaufort Scale (0.0-12.0)
- Wind Direction
Noon-Absolute Velocity (S,NW etc.)
Mean-Relative Velocity (0.0-6.0 but no P,S)
- Port of Destination
- E.T.A.: Estimated time of arrival (Local Time of Destination)
- Remain Distance (Mile)
- Expected Speed (knot)
- Hours (HH:MM) :
 - [1] In Port
Shifting in Port
Cargo Work
 - [2] Temporally Anchor
 - [3] Under Weigh (HUW)
Propelling (HP)
Drifting
Slow Steaming
- Actual diff. hour from Last Report - [1]+[2]+[3]
(Note) If actual elapsed time from last report (add Diff to G.M.T.) doesn't add up with the value of [1]+[2]+[3], check mark is put in the "Data Error" field of data list on the "Main Menu screen". In this case, please check the entered data.
- Distance Run (Mile) and Speed (knot)
HUW - Hours Under Weigh
HP - Hours Propelling

4. "At Noon(Deck) screen"(Fig.5-12) is displayed.
Enter the necessary data.
If you opened by [Review/Modify], select [Modify] to change to EDIT MODE. And then, enter the necessary data.
5. You can change screen for Deck and Engine by selecting [DECK] or [ENGINE] tab.
6. After finish the entering, select [Save] to save data.
7. If you want to see print preview, select [Print Preview].
8. If you want to make print, select [Print].
9. If you want to return to "Main Menu screen", select [Close].

<Display item>

- MGO (M/T) : Gas Oil
- MDO (M/T) : Diesel Oil
- FO (M/T) : Fuel Oil
- FW (M/T) : Fresh Water
- Cyl. Oil (L) : Cylinder Oil
- Sys. Oil - M/E (L) : M/E System Oil
- Sys. Oil - G/E (L) : G/E System Oil

●FW (M/T) : Fresh Water

●Temperature : Air, SW, E/R

M/E

- Total Revolution (HP)
- M/E RPM (rpm)
- Handle Notch
- T/C RPM (rpm)
- Exh. Gas Temp (°C)
- Scav. Air Temp. (°C) Press. (MPa)
- Exh. Gas T/C Temp. (°C)
- Exh. Gas EGE Temp. (°C)
- JCFW out Temp (°C)

G/E

- Electric Load (Noon) (kW)
- Exh. Gas Temp (°C)
- T/C Scav. Press. (MPa)
- Exh. Gas Temp (°C)
- LO Cooler LO in Temp. (°C)
- LO Cooler LO out Temp. (°C)

5. 5 Input of “Arrival Data”

1. On the “Main Menu screen”(Fig.5-14), select [Create].
In addition, if you want to modify data already saved, select data on the list, and then select [Review/Modify].
2. “Mode Select screen”(Fig.5-15) is displayed.
Select “Arrival” or “Arrival (MRV)” from among option button.
3. Select [OK]. If you want to cancel, select [Cancel].

Fig.5-14 Main Menu screen

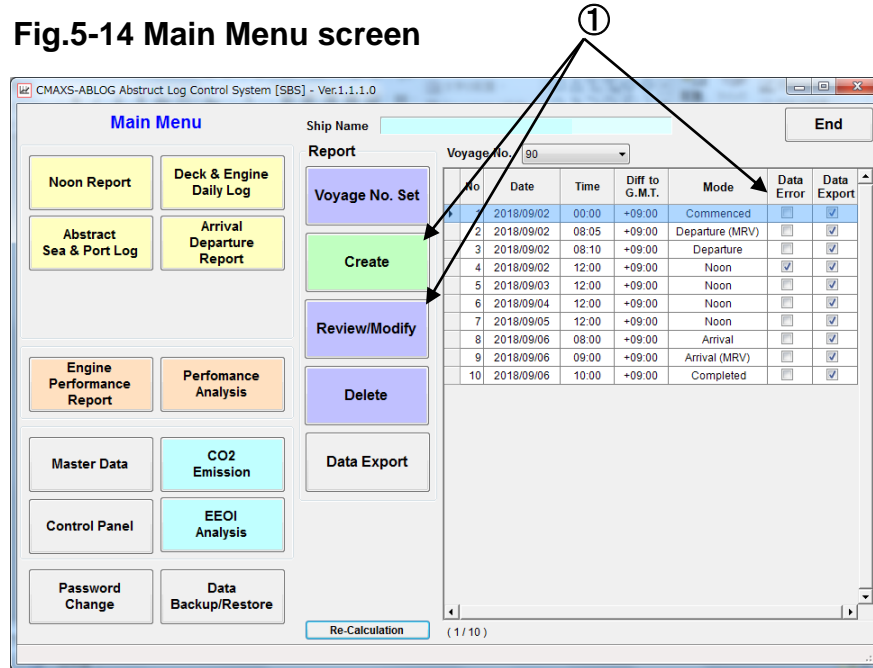
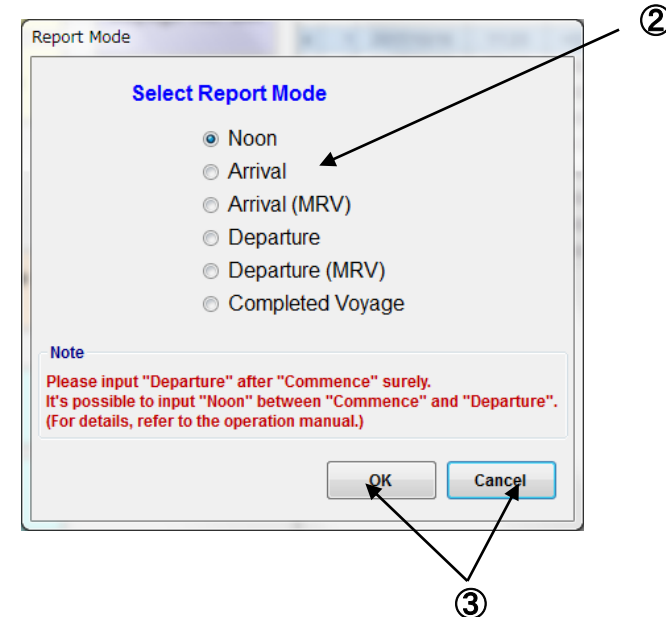


Fig.5-15 Mode Select screen



< Mode selection >

- Noon : Entering for Noon Data
- Arrival : Entering for Arrival Data
- Arrival (MRV) : Entering for Arrival Data of definition of EU-MRV
- Departure : Entering for Departure Data
- Departure (MRV) : Entering for Departure Data of definition of EU-MRV
- Completed Voyage : Entering for Completed Voyage Data

(Note) Commenced Voyage Data is automatically created, if you select “New” of Voy.No. to make new voyage.

Fig.5-16 At Arrival (Deck) screen

Report

Ship Name No.1 IMC MARU Voyage No. 001

At Arrival (MRV)

Date 2017/10/21 06:00 (9/9)

DECK ENGINE

Name of Port Other port Hours (HH:MM)

Name of Berth/Terminal/Anchorage Other berth

Identifier Selection EU port to Other port (Outbound)

Clock (minute) Ahd Abk 0

Diff to G.M.T. (HH:MM) + - 02:00

Draft (m) Fore 0.00 Aft 0.00

Displacement (MT) 15,000

Condition Laden Ballast

[1] Temporally Anchor 15 : 0

[2] Under Weight (HUW) 3 : 0

Propelling (HP) 3 : 0

Drifting 0 : 0

Slow Steaming 0 : 0

Actual diff. hour from Last Report - ([1]+[2]) 51 : 0

(Mile) Speed (knot)

Distance Run HUW 10 3.33

HP 10 3.33

< Note >
Please be sure to input the following data for important.
- Displacement
And, please confirm whether calculated "Speed (HUW) (HP)" are correct

Modify Save Cancel Close

<Display item>

- Name of Port
- Name of Berth/Terminal/Anchorage
- Identifier Selection
- Clock (min.) : Ahd - Ahead Abk - Aback
- Diff to G.M.T. (HH:MM) : Time difference with G.M.T.
- Draft (m)
- Displacement (MT)

● Hours (HH:MM) :

- [1] Temporally Anchor
- [2] Under Weigh (HUW)
- Propelling (HP)
- Drifting
- Slow Steaming

● Actual diff. hour from Last Report - [1]+[2]

(Note) If actual elapsed time from last report (add Diff to G.M.T.) doesn't add up with the value of [1]+[2], check mark is put in the "Data Error" field of data list on the "Main Menu screen". In this case, please check the entered data.

- Distance Run (Mile) and Speed (knot)
- HUW - Hours Under Weigh
- HP - Hours Propelling

4. "At Arrival(Deck) screen"(Fig.5-16) is displayed.

Enter the necessary data.

If you opened by [Review/Modify], select [Modify] to change to EDIT MODE. And then, enter the necessary data.

5. You can change screen for Deck and Engine by selecting [DECK] or [ENGINE] tab.

6. After finish the entering, select [Save] to save data.

7. If you want to see print preview, select [Print Preview].

8. If you want to make print, select [Print].

9. If you want to return to "Main Menu screen", select [Close].

Fig.5-17 At Arrive (Engine) screen

Report

Ship Name No.1 IMC MARU Voyage No. 001

At Arrival (MRV)

DECK ENGINE

Date 2017/10/21 06:00 (9/9)

Date 2017/10/21 Time 06:00

ROB	Consumption	M/E
MGO (MT)	8.00	Cyl. Oil (L)
MDO (MT)	15.00	Sys. Oil - M/E (L)
LSFO (MT)	33.60	Sys. Oil - G/E (L)
HSFO (MT)	33.90	FW Boiler (MT)
FW (MT)	55	FW Tk Clean'g (MT)
Ballast Water (MT)	0	FW General (MT)
Cyl. Oil (L)	1,500	LSFO M/E (MT)
Sys. Oil - M/E (L)	2,300	LSFO G/E (MT)
Sys. Oil - G/E (L)	0	LSFO Boiler (MT)
		HSFO M/E (MT)
		HSFO G/E (MT)
		HSFO Boiler (MT)
		MGO M/E (MT)
		MGO G/E (MT)
		MGO Boiler (MT)
		MGO C/E (MT)
		MDO M/E (MT)
		MDO G/E (MT)
		MDO Boiler (MT)
		MDO C/E (MT)

Generated

FW (MT) 0

< Note >
Please confirm whether calculated "M/E RPM" is correct or not.

Modify Save Cancel Close

<Display item>

Supply and remain on board

- MGO (M/T) : Gas Oil
- MDO (M/T) : Diesel Oil
- FO (M/T) : Fuel Oil
- FW (M/T) : Fresh Water
- Ballast Water (M/T) : Ballast Water
- Cyl. Oil (L) : Cylinder Oil
- Sys. Oil - M/E (L) : M/E System Oil
- Sys. Oil - G/E (L) : G/E System Oil

Distilling quantity

- FW (M/T) : Fresh Water

Consumption (within actual lapsed time from previous report)

- Cyl. Oil (L) : Cylinder Oil
- Sys. Oil - M/E (L) : M/E System Oil
- Sys. Oil - G/E (L) : G/E System Oil

(Note) Consumption of M/E and G/E Sys.Oil are expressed in consumption within berthing time from Departure to Arrival.

- FW Boiler (M/T) : Boiler Fresh Water
- FW Tk Clean'g (M/T) : Tank Cleaning Fresh Water
- FW Crew (M/T) : Crew Fresh Water

(Note) Consumption of FW Crew is expressed in consumption for all general service including Drinking Water other than Boiler, Tank Cleaning, Disposal.

- FW Disposal (M/T) : Disposal Fresh Water
- FO M/E (M/T) : M/E Fuel Oil
- FO G/E (M/T) : G/E Fuel Oil
- FO Boiler (M/T) : Boiler Fuel Oil
- MGO M/E (M/T) : M/E Gas Oil
- MGO G/E (M/T) : G/E Gas Oil
- MGO Boiler (M/T) : Boiler Gas Oil
- MGO C/E (M/T) : C/E Gas Oil
- MDO M/E (M/T) : M/E Diesel Oil
- MDO G/E (M/T) : G/E Diesel Oil
- MDO Boiler (M/T) : Boiler Diesel Oil
- MDO C/E (M/T) : C/E Diesel Oil

M/E

- Total Revolution (HP)
- M/E RPM (rpm)

5. 6 Input of “Completed Voyage Data”

1. On the “Main Menu screen”(Fig.5-18), select [Create].
In addition, if you want to modify data already saved, select data on the list, and then select [Review/Modify].
2. “Mode Select screen”(Fig.5-15) is displayed.
Select “Completed Voyage” from among option button.
3. Select [OK]. If you want to cancel, select [Cancel].

Fig.5-18 Main Menu screen

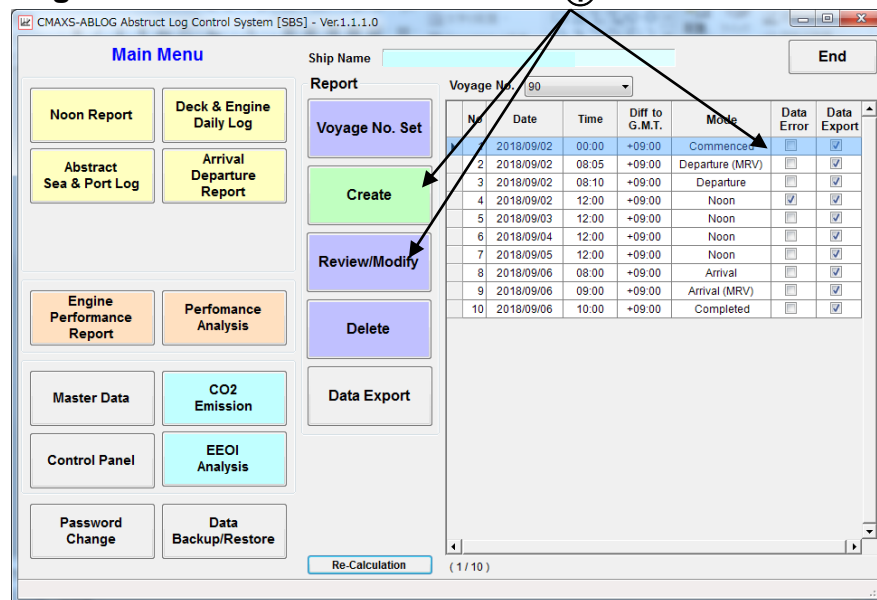
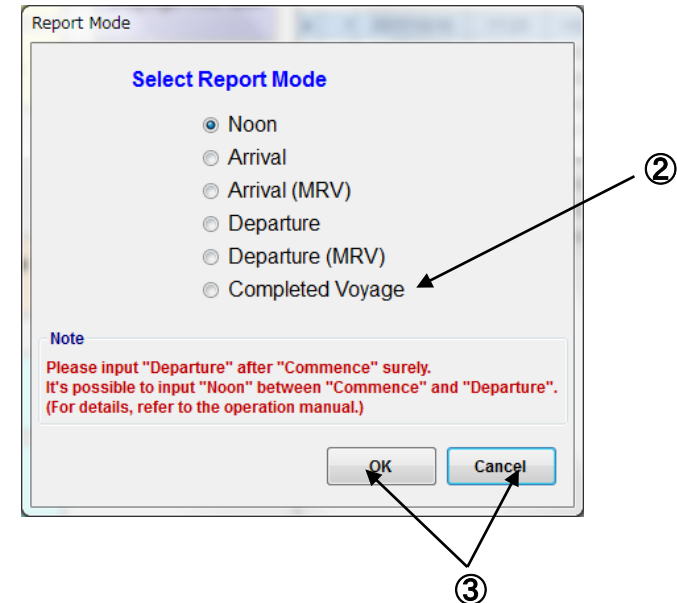


Fig.5-19 Mode Select screen



< Mode selection >

- Noon : Entering for Noon Data
- Arrival : Entering for Arrival Data
- Arrival (MRV) : Entering for Arrival Data of definition of EU-MRV
- Departure : Entering for Departure Data
- Departure (MRV) : Entering for Departure Data of definition of EU-MRV
- Completed Voyage : Entering for Completed Voyage Data

(Note) Commenced Voyage Data is automatically created, if you select “New” of Voy.No. to make new voyage.

Fig.5-20 At Completed Voyage (Deck) screen

<Display item>

●Name of Port

●Name of Berth/Terminal/Anchorage

●Identifier Selection

●Diff to G.M.T. (HH:MM) : Time difference with G.M.T.

●Hours (HH:MM) :

[1] In Port

Shifting in Port

Cargo Work

[2]Temporally Anchor

[3]Under Weigh (HUW)

Propelling (HP)

Drifting

Slow Steaming

●Actual diff. hour from Last Report - [1]+[2]+[3]

(Note) If actual elapsed time from last report (add Diff to G.M.T.) doesn't add up with the value of [1]+[2], check mark is put in the "Data Error" field of data list on the "Main Menu screen". In this case, please check the entered data.

●ROB Laden (M/T) :

Remain on board of Cargo

4. "At Completed Voyage(Deck) screen"(Fig.5-20) is displayed.
Enter the necessary data.
If you opened by [Review/Modify], select [Modify] to change to EDIT MODE. And then, enter the necessary data.
5. You can change screen for Deck and Engine by selecting [DECK] or [ENGINE] tab.
6. After finish the entering, select [Save] to save data.
7. If you want to see print preview, select [Print Preview].
8. If you want to make print, select [Print].
9. If you want to return to "Main Menu screen", select [Close].

Fig.5-21 At Completed Voyage (Engine) screen

Report

Ship Name No.1 IMC MARU Voyage No. 001 EDIT MODE

At Completed Voyage Date << 2017/11/20 15:53 >> (10 / 10)

DECK ENGINE Working Hours

Date 2017/11/20 Time 15:53

ROB		Consumption	
MGO (MT)	8.00	Cyl. Oil (L)	0
MDO (MT)	15.00	Sys. Oil - M/E (L)	0
LSFO (MT)	33.60	Sys. Oil - G/E (L)	0
HSFO (MT)	33.90	FW Boiler (MT)	0
FW (MT)	55	FW Tk Clean'g (MT)	0
		FW General (MT)	0
Cyl. Oil (L)	1,500	LSFO M/E (MT)	0.00
Sys. Oil - M/E (L)	2,300	LSFO G/E (MT)	0.00
Sys. Oil - G/E (L)	0	LSFO Boiler (MT)	0.00
#1 T/C Bear'g Oil (L)	0	HSFO M/E (MT)	0.00
#2 T/C Bear'g Oil (L)	0	HSFO G/E (MT)	0.00
Ref'tor Oil (L)	18	HSFO Boiler (MT)	0.00
Comp'or Oil (L)	20	MGO M/E (MT)	0.00
Hyd. Oil (L)	2,000	MGO G/E (MT)	0.00
Kerosene (L)	200	MGO Boiler (MT)	0.00
FW (MT)	0	MGO C/E (MT)	0.00
		MDO M/E (MT)	0.00
		MDO G/E (MT)	0.00
		MDO Boiler (MT)	0.00
		MDO C/E (MT)	0.00

Generated

Modify Save Cancel Close

<Display item>

Supply and remain on board

- MGO (M/T) : Gas Oil
- MDO (M/T) : Diesel Oil
- FO (M/T) : Fuel Oil
- FW (M/T) : Fresh Water

- Cyl. Oil (L) : Cylinder Oil
- Sys. Oil - M/E (L) : M/E System Oil
- Sys. Oil - G/E (L) : G/E System Oil
- T/C Bear'g Oil (L) : T/C Bearing Oil
- Refer Oil (L) : Refer Oil
- Comp'or Oil (L) : Compressor Oil
- Hyd. Oil (L) : Hydraulic Oil
- Kerosene (L) : Kerosene

Distilling quantity

- FW (M/T) : Fresh Water

Consumption (within actual lapsed time from previous report)

- Cyl. Oil (L) : Cylinder Oil
- Sys. Oil - M/E (L) : M/E System Oil
- Sys. Oil - G/E (L) : G/E System Oil

(Note) Consumption of M/E and G/E Sys.Oil are expressed in consumption within berthing time from Arrival to Completed when voyage is changed at on Sailing Time or berthing. When voyage is changed at on Arrival Time or sea going, there is expressed in consumption within sea going time from Departure to completed.

- FW Boiler (M/T) : Boiler Fresh Water
- FW Tk Clean'g (M/T) : Tank Cleaning Fresh Water
- FW Crew (M/T) : Crew Fresh Water

(Note) Consumption of FW Crew is expressed in consumption for all general service including Drinking Water other than Boiler, Tank Cleaning, Disposal.

- FW Disposal (M/T) : Disposal Fresh Water
- FO M/E (M/T) : M/E Fuel Oil
- FO G/E (M/T) : G/E Fuel Oil
- FO Boiler (M/T) : Boiler Fuel Oil
- MGO M/E (M/T) : M/E Gas Oil
- MGO G/E (M/T) : G/E Gas Oil
- MGO Boiler (M/T) : Gas Diesel Oil
- MGO C/E (M/T) : C/E Gas Oil
- MDO M/E (M/T) : M/E Diesel Oil
- MDO G/E (M/T) : G/E Diesel Oil
- MDO Boiler (M/T) : Boiler Diesel Oil
- MDO C/E (M/T) : C/E Diesel Oil

Fig.5-22 At Completed Voyage (Working Hours) screen

Report

Ship Name IHI-MARU Voyage No. 050E EDIT REPORT

At Completed Voyage Date << 2012/02/28 08:30 >> (38 / 38)

DECK ENGINE Working Hours

Date 2012/02/28 Time 08:30

Working Hours (through out the Voyage)

M/E	0	:	0	Cargo Heating	0	:	0
G/E No.1	0	:	0	B.W. Heating	0	:	0
No.2	0	:	0	C. Tk Steaming	0	:	0
No.3	0	:	0	F.O. Tk Heating	0	:	0
Cargo Pump Engien No.1	0	:	0	Room Heating	0	:	0
No.2	0	:	0	Room Cooler	0	:	0
No.3	0	:	0	F.W. Generator	0	:	0
Hydro Pump Drive by No.1	0	:	0	Purifier (L.O.)	0	:	0
No.2	0	:	0	Purifier (D.O.)	0	:	0
No.3	0	:	0	Purifier (F.O.)	0	:	0

Modify Save Cancel Close

Running hour (total running hour within voyage)

- | | |
|-----------------------|-------------------|
| ● M/E | ● F.O. Tk heating |
| ● G/E | ● Room Heater |
| ● Cargo Pump Engine | ● Room Cooler |
| ● Hydro Pump Drive by | ● F.W. Generator |
| ● Cargo Heating | ● Purifier (L.O.) |
| ● B.W. Heating | ● Purifier (D.O.) |
| ● C. Tk steaming | ● Purifier (F.O.) |

5. 7 Insert of “Abstract Log Data”

1. Entered Abstract Log Data are displayed on the data list in order of entered date.
If you want to insert the data additionally, enter the data by same procedure for new creation.
2. On the “Main Menu screen”(Fig.5-22), select [Create].
3. “Mode Select screen”(Fig.5-23) is displayed.
Select subject mode from among option button.
4. Select [OK]. If you want to cancel, select [Cancel].

Fig.5-22 Main Menu screen

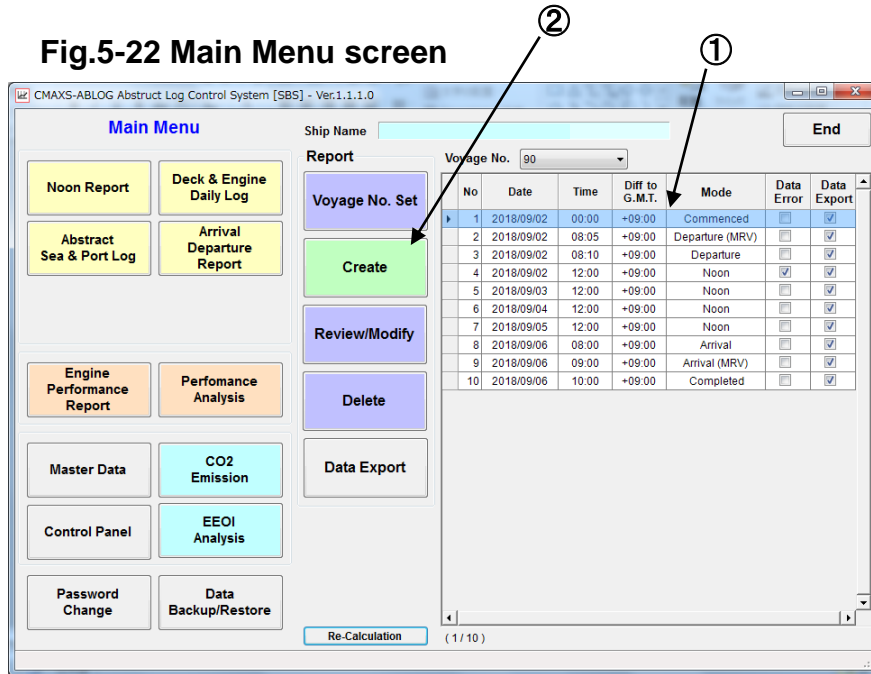
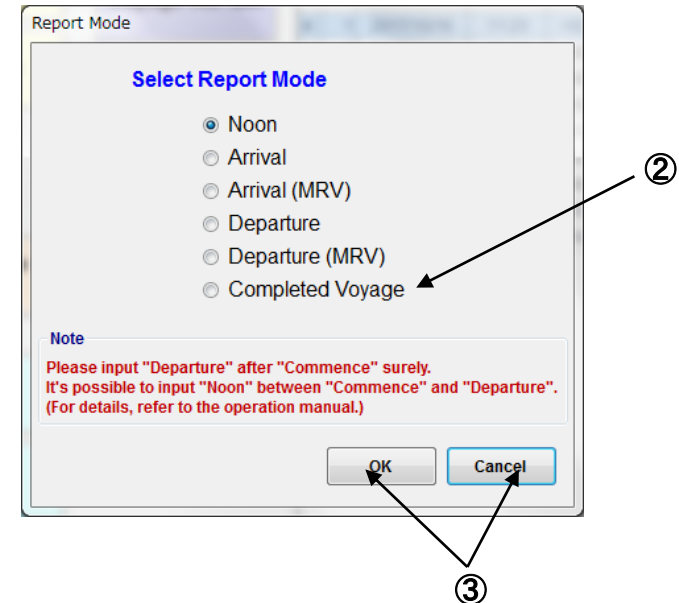


Fig.5-23 Mode Select screen



< Mode selection >

- Noon : Entering for Noon Data
- Arrival : Entering for Arrival Data
- Arrival (MRV) : Entering for Arrival Data of definition of EU-MRV
- Departure : Entering for Departure Data
- Departure (MRV) : Entering for Departure Data of definition of EU-MRV
- Completed Voyage : Entering for Completed Voyage Data

(Note) Commenced Voyage Data is automatically created, if you select “New” of Voy.No. to make new voyage.

5. 8 Deletion of “Abstract Log Data”

- Entered Abstract Log Data are displayed on the data list in order of entered date.
If you want to delete the data, select subject data and select [Delete] on the “Main Menu screen”(Fig.5-24).
- Select [OK] of confirmation message.
If you want to cancel, select [Cancel].

Fig.5-24 Main Menu screen

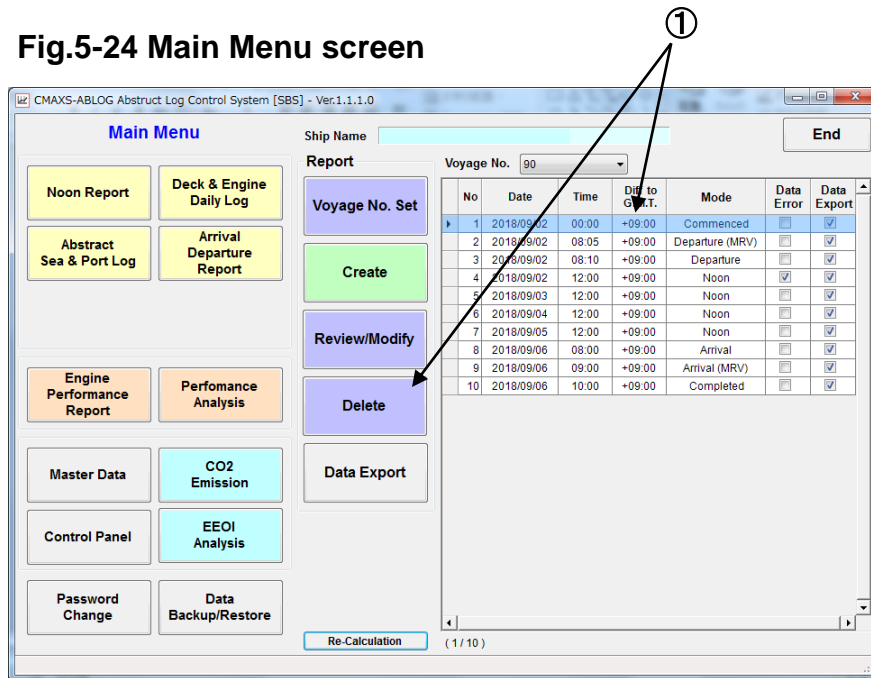
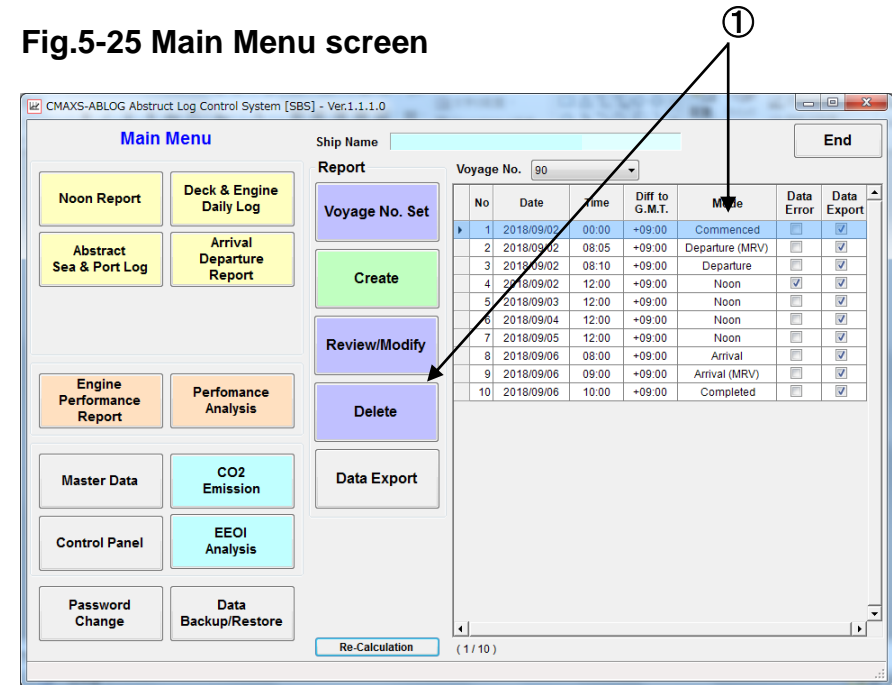


Fig.5-25 Main Menu screen



5. 9 Deletion of “Voyage”

- If you want to delete voyage data in block, select subject Voy.No. for delete on the “Main Menu screen”(Fig.5-25). And then, select “Commenced Data” and select [Delete].
- Select [OK] of confirmation message.
If you want to cancel, select [Cancel].

5. 10 Entry procedure of Abstract Log Data at commenced/completed voyage

(1) When voyage is changed at on Sailing Time

Enter Departure Data<(A)yyyy/mm/dd hh:mm>, then

Enter Completed Date<(A)yyyy/mm/dd hh:mm>, then the voyage is completed.

Regarding next voyage, Enter Commenced Data<(A)yyyy/mm/dd hh:mm>, then

Enter Departure Data<(A)yyyy/mm/dd hh:mm>, then the voyage is commenced.

(2) When voyage is changed at berthing

Enter Arrival Data<(B)yyyy/mm/dd hh:mm>, then (Noon Data will be entered if any.)

Enter Completed Date<(C)yyyy/mm/dd hh:mm>, then the voyage is completed.

Regarding next voyage, Enter Commenced Data<(C)yyyy/mm/dd hh:mm>, then

(Noon Data will be entered if any.) Enter Departure Data<(D)yyyy/mm/dd hh:mm>, then the voyage is commenced.

(3) When voyage is changed at sea going (this case is almost never.)

Enter Departure Data<(E)yyyy/mm/dd hh:mm>. then (Noon Data will be entered if any.)

Enter Arrival Date<(F)yyyy/mm/dd hh:mm>, then

Enter Completed Date<(F)yyyy/mm/dd hh:mm>, then the voyage is completed.

Regarding next voyage, Enter Commenced Data<(F)yyyy/mm/dd hh:mm>, then

Enter Departure Data<(F)yyyy/mm/dd hh:mm>, then the voyage is commenced.

(4) When voyage is changed at on Arrival Time (this case is almost never.)

Enter Arrival Data<(G)yyyy/mm/dd hh:mm>, then

Enter Completed Date<(G)yyyy/mm/dd hh:mm>, then the voyage is completed.

Regarding next voyage, Enter Commenced Data<(G)yyyy/mm/dd hh:mm>, then

(Noon Data will be entered if any.) Enter Departure Data<(H)yyyy/mm/dd hh:mm>, then the voyage is commenced.

Entry procedure of Abstract Log Data at commenced/completed voyage

Changing of voyage	Mode	Date Time
on Sailing Time		
	Departure Data Completed Data	(A) yyyy/mm/dd hh:mm (A) yyyy/mm/dd hh:mm
on Sailing Time	Commenced Data Departure Data	(A) yyyy/mm/dd hh:mm (A) yyyy/mm/dd hh:mm
	Arrival Data (Noon Data) Completed Data	(B) yyyy/mm/dd hh:mm yyyy/mm/dd hh:mm (C) yyyy/mm/dd hh:mm
at Port		
at Port	Commenced Data (Noon Data) Departure Data	(C) yyyy/mm/dd hh:mm yyyy/mm/dd hh:mm (D) yyyy/mm/dd hh:mm
	Departure Data (Noon Data) Arrival Data <at Sea> Completed Data <at Sea>	(E) yyyy/mm/dd hh:mm yyyy/mm/dd hh:mm (F) yyyy/mm/dd hh:mm (F) yyyy/mm/dd hh:mm
at Sea		
at Sea	Commenced Data <at Sea> Departure Data <at Sea>	(F) yyyy/mm/dd hh:mm (F) yyyy/mm/dd hh:mm
	Arrival Data Completed Data	(G) yyyy/mm/dd hh:mm (G) yyyy/mm/dd hh:mm
on Arrival Time	Commenced Data (Noon Data) Departure Data	(G) yyyy/mm/dd hh:mm yyyy/mm/dd hh:mm (H) yyyy/mm/dd hh:mm

Note: Input of report

The EU MRV regulation applies a berth to berth concept for voyages. Hence, a voyage starts at berth and ends at berth. On the other hand, each company definition of “Departure” and “Arrival” is different from definition of EU MRV. For satisfying both definition, CMAXS provides following report.

【For definition of EU MRV】

Departure (MRV) report

Arrival (MRV) report

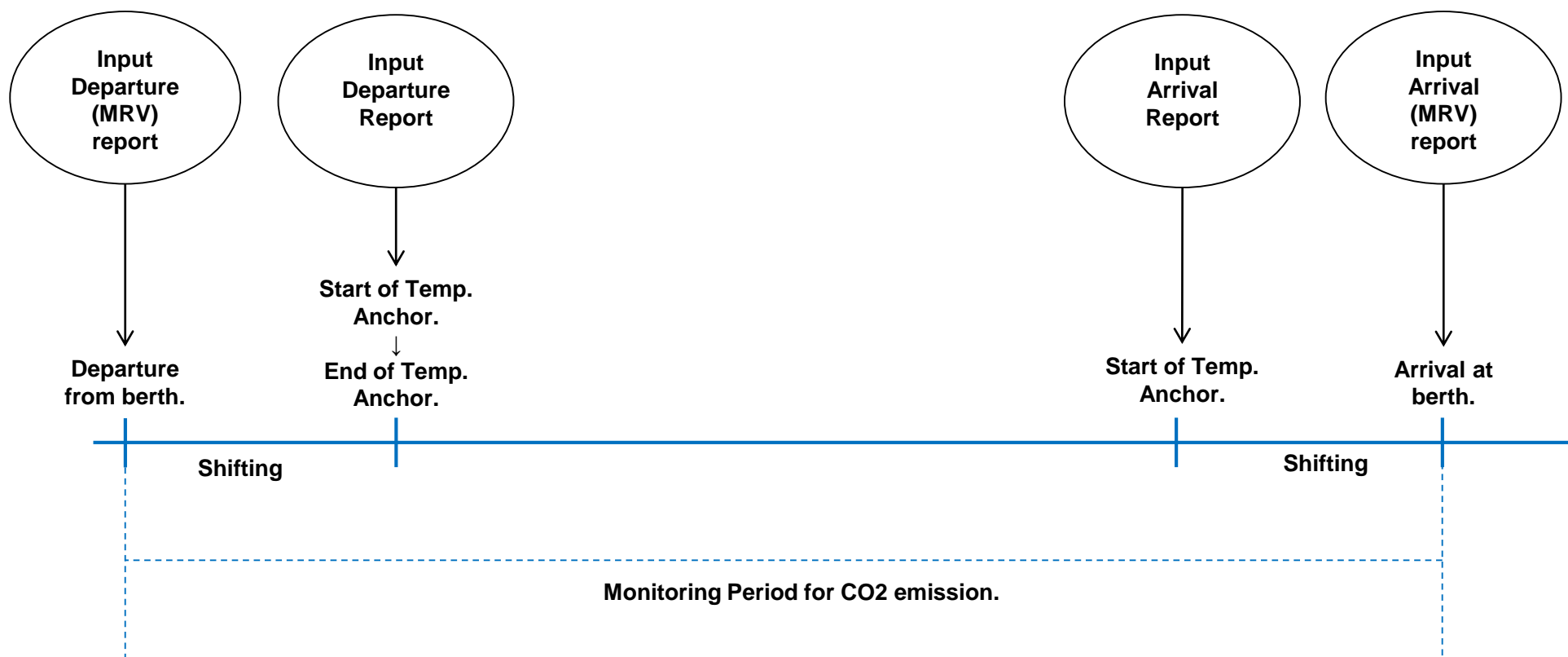
【For definition of each company】

Departure report

Arrival report

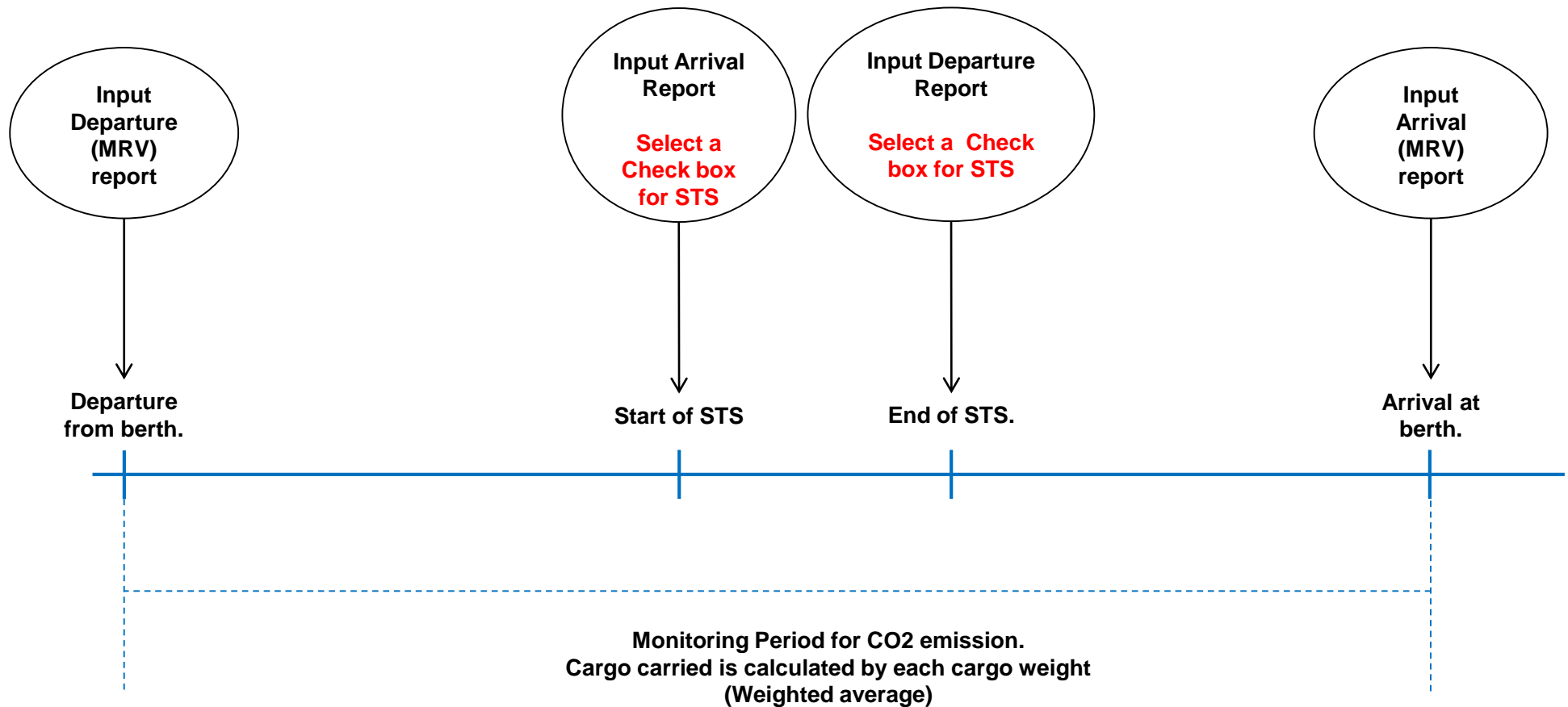
Example① : In the case of input of report for EU-MRV.

Each company definition of “Departure” and “Arrival” is different from definition of EU MRV, please input a report as follows.



Example② : In the case of input of report for EU-MRV.

If you operated “Ship to Ship Transfer” during a voyage, please input a report as follows.



6. When you want to refer and print various forms

The system counts and calculates based on entered Abstract Log Data to make various forms.

The following forms can be referred and printed.

- Noon Report
- Deck & Engine Daily Log
- Abstract Sea & Port Log
- Arrival/Departure Report
- Time Sheet
- Ullage Report

Fig.6-1 Main Menu screen

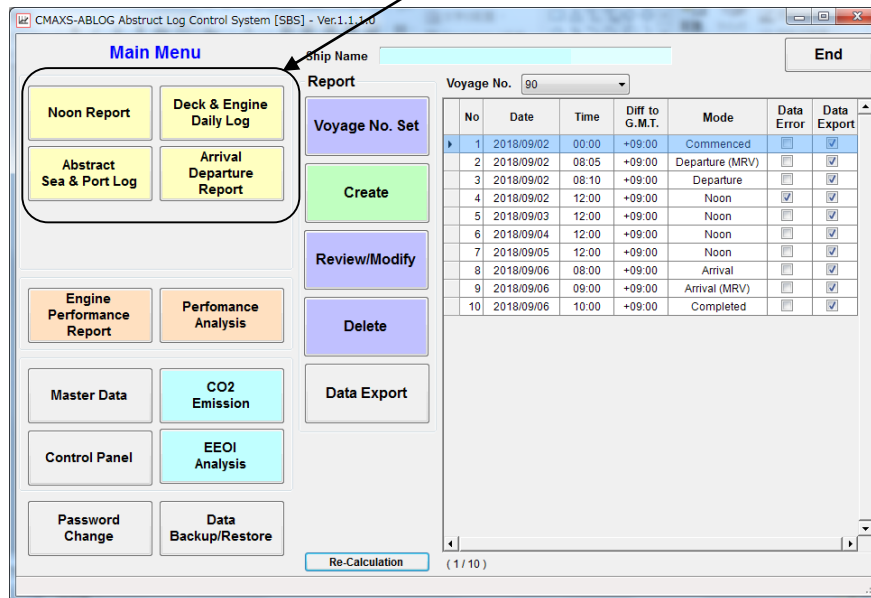


Fig.6-2 Noon Report screen

6. 1 Noon Report

1. On the “Main Menu screen”(Fig.6-1), select [Noon Report].
2. If you want to see print preview, select [Print Preview].
And also, you can print from print preview screen.
3. If you want to make print, select [Print].
4. If you want to export to Excel, select [Export to Excel].
5. If you want to change page, select [<<] or [>>].
6. If you want to return to “Main Menu screen”, select [Close].

6. 2 Deck & Engine Daily Log

1. On the “Main Menu screen”(Fig.6-1), select [Deck & Engine Daily Log].
2. “Deck & Engine Daily Log screen”(Fig.6-3) is displayed.
3. If you select [Modify], "Manual Input screen (Fig.6-4)" is displayed. And then, enter the necessary data.
4. After input, select [OK] to save data.
If you select [Cancel], input data are cancelled.

Fig.6-3 Deck & Engine Daily Log screen

ADMAX Abstract Log Control System Ver.7.0.0-TM - [Deck & Engine Daily Log]

ABC Shipmanagement Co.,Ltd.

DECK & ENGINE DAILY REPORT (1)

M.T.IHI-MARU

Voy. No.051E

Date	Clock Alt' (+) Hr (-)	Diff to GMT Hr	Noon Position		Weather	Wind		Mean Dir Hr	Mean Fce Hr	Temp. Air S.W. Hr	Temp. Er Hr	Hours In Port Hr	Shift Hr	Hours T Anchor Hr	H.U.W. Hr	H.P. Hr	Hours Drying Hr	Slow Steam/g Hr	Dist (H.M)	Speed (H.M)	Dist (H.P)	Speed (H.P)	Revolution (P Const)		
			Lat	Long		Dir	Fce																		
2012/02/29	00	-8:00						0	0.0	0.0	0	0	0	0.00	0.00	0.00	27:30	0.00	0.00	0.00	0.00	0.00			
2012/03/01	00	-8:00										22:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Total From SAN FRANCISCO To SAN FRANCISCO												22:00	0.00	0.00	27:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
2012/03/02	00	-8:00	41-07N	126-05W	C		5	1.0	5.0	10	11	29	0.00	0.00	0.00	26:00	26.00	0.00	0.00	262	10.08	262	10.08	18.28	
2012/03/03	00	-8:00	46-11N	126-05W	C		5	4.0	5.0	11	9	27	0.00	0.00	0.00	24:00	24.00	0.00	0.00	304	12.67	304	12.67	183.40	
2012/03/04	00	-8:00										0.00	0.00	0.00	18:30	18.30	0.00	0.00	931	50.32	810	43.78	138.73		
Total From SAN FRANCISCO To VANCOUVER BC												0.00	0.00	0.00	68:30	68.30	0.00	0.00	0.00	0.00	1,497	21.85	1,376	20.09	340.41
2012/03/05	00	-8:00					0	0.0	0.0	10	11	15	0.00	0.00	0.00	29:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2012/03/06	00	-8:00										30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Total From VANCOUVER BC To VANCOUVER BC												30:00	0.00	0.00	29:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2012/03/07	00	-8:00	49-04N	128-50W	C		4	2.0	4.0	0	0	0	0.00	0.00	0.00	18:00	18.00	0.00	0.00	213	11.83	213	11.83	151.20	
2012/03/08	00	-8:00	50-04N	135-51W	C		9	2.0	9.0	0	0	0	0.00	0.00	0.00	24:00	24.00	0.00	0.00	281	11.71	281	11.71	194.40	
2012/03/09	60	-9:00	52-08N	138-57W	B		8	2.0	8.0	0	0	0	0.00	0.00	0.00	25:00	25.00	0.00	0.00	154	6.16	154	6.16	207.00	
2012/03/10	00	-9:00	53-05N	144-37E	O		8	0.0	8.0	0	6	20	0.00	0.00	0.00	24:00	24.00	0.00	0.00	215	8.96	215	8.96	198.72	
2012/03/11	-60	-10:00	54-12N	149-26W	C		8	1.0	8.0	-4	4	19	0.00	0.00	0.00	25:00	25.00	0.00	0.00	184	7.36	184	7.36	210.00	
2012/03/12	00	-10:00	54-11N	155-14W	C		7	1.0	7.0	-4	4	19	0.00	0.00	0.00	24:00	24.00	0.00	0.00	203	8.46	203	8.46	201.60	
2012/03/13	-80	-11:00	54-17N	164-23W	O		5	1.0	5.0	-6	3	29	0.00	0.00	0.00	25:00	25.00	0.00	0.00	321	12.84	321	12.84	210.00	
2012/03/14	00	-11:00	54-35N	172-50W	O		5	1.0	5.0	-6	4	0	0.00	0.00	0.00	24:00	24.00	0.00	0.00	298	12.42	298	12.42	201.60	
2012/03/15	-60	-12:00	54-40N	178-35E	O		7	1.0	7.0	-7	4	19	0.00	0.00	0.00	25:00	25.00	0.00	0.00	299	11.96	299	11.96	210.00	
2012/03/17	00	12:00	54-10N	170-00E	O		5	1.0	5.0	-3	5	19	0.00	0.00	0.00	24:00	24.00	0.00	0.00	302	12.58	302	12.58	201.60	
2012/03/18	-60	11:00	50-53N	162-51E	O		7	0.0	7.0	-1	4	29	0.00	0.00	0.00	25:00	25.00	0.00	0.00	327	13.08	327	13.08	210.00	
2012/03/19	00	11:00	48-05N	157-04E	O		8	4.0	8.0	1	2	28	0.00	0.00	0.00	24:00	24.00	0.00	0.00	283	11.79	283	11.79	201.60	
2012/03/20	-60	10:00	45-47N	152-38E	O		8	0.0	8.0	-6	2	28	0.00	0.00	0.00	25:00	25.00	0.00	0.00	227	9.08	227	9.08	210.00	
2012/03/21	00	10:00	43-46N	148-24E	O		8	3.0	8.0	-1	2	29	0.00	0.00	0.00	24:00	24.00	0.00	0.00	218	9.08	218	9.08	201.60	
2012/03/22	-80	9:00	41-41N	141-51E	C		4	3.0	4.0	6	3	25	0.00	0.00	0.00	25:00	25.00	0.00	0.00	322	12.88	322	12.88	192.00	
2012/03/23	00	9:00	39-32N	136-52E	O		4	5.0	4.0	9	10	25	0.00	0.00	0.00	24:00	24.00	0.00	0.00	265	11.04	265	11.04	184.32	
2012/03/24	00	9:00	36-40N	131-42E	O		4	1.0	4.0	7	10	26	0.00	0.00	0.00	24:00	24.00	0.00	0.00	300	12.50	300	12.50	184.32	
2012/03/25	00	9:00										0.00	0.00	0.00	12:06	12.06	0.00	0.00	130	10.74	130	10.74	94.06		
Total From VANCOUVER BC To ULSAN												0.00	0.00	0.00	421:06	421.06	0.00	0.00	0.00	0.00	4,542	10.79	4,542	10.79	3,464.02
2012/03/26	00	9:00			G		3	3.0	3.0	0	0	0	0.00	0.00	0.00	35:54	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2012/03/26	00	9:00										6:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Total From ULSAN To ULSAN												6:30	0.00	0.00	35:54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2012/03/27	00	9:00	33-31N	126-09E	C		4	5.0	4.0	13	14	25	0.00	0.00	0.00	17:30	17.30	0.00	0.00	212	12.11	212	12.11	130.47	
2012/03/28	-60	8:00										0.00	0.00	0.00	19:12	19.12	0.00	0.00	225	11.72	225	11.72	275.68		

1/3

Modify

Close

Fig.6-4 Manual Input screen

Deck & Engine Daily Log

Input Other data & Remarks.

Log Date: 2012/10/30

Chief Officer: [] 2nd Officer: []

Chief Engineer: [] 3rd Engineer: []

Departure of Last Loading Port: []

IFO # (used in Full Load Condition): 0

Density kg/m3 (15°C): 0.0000

M/Eng. Inlet: 0

F.O. Temp. @ Serv. Tk.: 0

Draft (m): Fore 0.00 Mid 0.00 Aft 0.00

MDO: 0.00

IFO: 0.00

B.Water & F.Water: 0

Ballast: 0

Cargo on Board (MT): 0

Vis. cSt @50°C: 0.0

Note:

1-01 []

1-02 []

1-03 []

1-04 []

1-05 []

1-06 []

1-07 []

1-08 []

1-09 []

1-10 []

1-11 []

1-12 []

1-13 []

<< >> (1/2)

OK Cancel

5. If you want to change page, select [<<] or [>>].
6. If you want to see print preview, select [Print Preview].
And also. you can print from print preview screen.
7. If you want to make print, select [Print].
8. If you want to export to Excel, select [Export to Excel].
9. If you want to change page, select [<<] or [>>].
10. If you want to return to “Main Menu screen”, select [Close].

6. 3 Abstract Sea & Port Log

1. On the “Main Menu screen”(Fig.6-1), select [Abstract Sea & Port Log].
2. “Abstract Sea & Port Log screen”(Fig.6-5) is displayed.
3. If you select [Modify], "Manual Input screen (Fig.6-6)" is displayed. And then, enter the necessary data.
4. After input, select [OK] to save data.
If you select [Cancel], input data are cancelled.

Fig.6-5 Abstract Sea & Port Log screen

ADMAX Abstract Log Control System Ver.7.0.0-TM - [Abstract Sea & Port Log]

ABC Shipmanagement Co.,Ltd.

ABSTRACT SEA & PORT LOG

M.T.IHI-MARU

Voy. No.051E

Commenced : 2012/02/28 08:30

Completed : 2012/04/18 17:30

Total Hours : 1,209.00 (50.38 days)

Port	Comm' & Comp' or Arrival & Departure Date	Draft (m)		MDO	IFO	Condition (MT)		Ballast	Diff to GMT Hr.	Hours in Port Hr.:Min	Temp Anchor Hr.:Min	Shift Hr.:Min	Cargo Work Hr.:Min	H.U.V. Hr.:Min
		Aft	Fore			F.V.V. & B.V.V.	Heating							
SAN FRANCISCO	Comm'	2012/02/28 08:30			62.90	563.67	290		0	-8:00				
SAN FRANCISCO	D	2012/03/01 10:00	6.00	7.50	50.74	563.67	260	0.000	8,530.988	0	-8:00	22:00	0.00	0.00
VANCOUVER BC	A	2012/03/04 06:30	6.20	7.70	49.72	510.79	200		0	-8:00	0.00	0.00	0.00	68:30
VANCOUVER BC	D	2012/03/06 18:00	9.20	10.20	47.72	492.10	90	0.000	18,527.907	0	-8:00	30:00	0.00	0.00
ULSAN	A	2012/03/25 00:06	9.30	9.50	46.80	100.45	70		0	9:00	0.00	0.00	0.00	421:06
ULSAN	D	2012/03/26 18:30	6.50	7.90	44.80	295.12	448	0.000	9,996.919	0	9:00	6:30	0.00	0.00
CIK(CHINA)	A	2012/03/28 06:12	6.50	7.90	44.50	264.44	328		1,100	8:00	0.00	0.00	0.00	36:42
CIK	D	2012/03/29 13:18	6.00	7.80	43.90	258.14	308	0.000	9,996.919	1,100	8:00	1:18	0.00	0.00
ZHANGJIA GANG	A	2012/03/29 23:06	6.00	7.80	43.70	251.50	298		1,100	8:00	0.00	0.00	0.00	9:48
TAICANG	D	2012/03/30 05:54	6.00	7.80	43.60	250.70	298	0.000	9,996.919	1,100	8:00	6:48	0.00	0.00
CHANGSHU	A	2012/03/30 07:54	6.00	7.80	43.40	249.60	298		1,100	8:00	0.00	0.00	0.00	2:00
CHANGSHU	D	2012/03/30 18:36	6.00	7.80	43.30	247.62	298	0.000	9,996.919	1,100	8:00	6:36	0.00	0.00
NANTONG	A	2012/03/30 21:42	6.00	7.80	43.00	245.92	298		1,100	8:00	0.00	0.00	0.00	3:06
NANTONG	D	2012/03/31 06:24	0.00	0.00	43.00	244.51	298	0.000	9,996.919	1,100	8:00	8:42	0.00	0.00
ZHANGJIA GANG	A	2012/03/31 10:36	6.00	7.80	42.80	242.21	280		1,100	8:00	0.00	0.00	0.00	4:12
ZHANGJIA GANG	D	2012/04/01 07:36	7.30	9.00	66.81	785.09	280	0.000	8,002.522	1,100	8:00	21:00	0.00	0.00
ZHANGJIA GANG	A	2012/04/01 08:00	7.30	9.00	66.61	784.55	280		1,100	8:00	0.00	0.00	0.00	0:24
ZHANGJIA GANG	D	2012/04/12 14:12	4.50	6.40	64.81	736.53	350	0.000	0.000	5,264	8:00	26:12	0.00	19:24
Shanghai	A	2012/04/13 08:24	4.50	6.40	64.31	727.88	340		5,264	8:00	8:54	0.00	0.00	9:18
Shanghai	D	2012/04/15 10:00	4.40	6.80	64.11	714.48	320	2,280.614	0.000	5,890	8:00	49:36	0.00	0.00
TAIXING	A	2012/04/16 13:18	4.40	6.80	63.21	699.33	260		5,890	8:00	15:18	0.00	0.00	12:00
TAIXING	D	2012/04/17 08:42	6.25	8.45	63.11	695.78	260	6,137.393	0.000	5,890	8:00	19:24	0.00	7:15
CIK	A	2012/04/18 12:30	6.25	8.45	62.71	682.28	235		5,890	8:00	12:48	0.00	0.00	15:00
CIK	D	2012/04/18 17:30	6.25	8.45	62.51	679.38	235	6,137.371	0.000	5,890	8:00	5:00	0.00	0.00

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Fig.6-6 Manual Input screen

Abstract Sea & Port Log

Input Other data & Remarks.

Log Date: 2012/10/30

Master: [Text Box]

Chief Engineer: [Text Box]

Closing Stock MDO: 0.00

Fuel Oil (MT) IFO: 0.00

Chief Engineers Comment on FUEL OIL Used in this Voyage: [Text Box]

No	Date	Note
1-01		
1-02		
1-03		
1-04		
1-05		
1-06		
1-07		
1-08		
1-09		
1-10		
1-11		
1-12		
1-13		
1-14		
1-15		
1-16		

Buttons: [Previous Page] [Next Page] (1/1) [OK] [Cancel]

5. If you want to change page, select [Previous Page] or [Next Page].
6. If you want to see print preview, select [Print Preview].
And also. you can print from print preview screen.
7. If you want to make print, select [Print].
8. If you want to export to Excel, select [Export to Excel].
9. If you want to change page, select [Previous Page] or [Next Page].
10. If you want to return to “Main Menu screen”, select [Close].

6. 4 Arrival/Departure Report

1. On the “Main Menu screen”(Fig.6-1), select [Arrival/Departure Report].
2. “Arrival/Departure Report(Arrival) screen”(Fig.6-7) is displayed.
3. If you select [Modify], "Manual Input screen (Fig.6-8)" is displayed. And then, enter the necessary data.
4. After input, select [OK] to save data.
If you select [Cancel], input data are cancelled.

Fig.6-7 Arrival/Departure Report(Arrival) screen

ADMAX Abstract Log Control System Ver. 7.0.0-TM - [Arrival/Departure Report]

ABC Shipmanagement Co.,Ltd.
M.T.IHI-MARU

Voy. No.051E

ARRIVAL REPORT Date:

Port	Arrival Time at Destination	Draft (m)		R.O.B.			Dist (HUM)	Speed (HP)	Departure Time at Last Port	Time of S/B Eng.	Time of RUP Eng. at Last Port
		Fore	Aft	MDO	IFO	F.W.					
Remarks:											

DEPARTURE REPORT Date: 2012/03/01

Port	Departure Time	Draft (m)		R.O.B.			Dist to Next Port	Port of Destination (Next Port)	Expected Speed	E.T.A.	Time of RUP Eng.
		Fore	Aft	MDO	IFO	F.W.					
SAN FRANCISCO	2012/03/01 10:00	6.00	7.50	50.74	563.67	260.00	813	VANCOUVER BC	13.00	2012/03/04 03:00	

Remarks:

Bottom toolbar: 8 (Print Preview), 7 (Print), 9 (Export to Excel), 10 (Page Navigation), 3 (Modify), 11 (Close)

Fig.6-8 Manual Input screen

Arrival/Departure Report

Input Other data & Remarks.

Arrival Departure

Report Date: 1800/01/01 Time of S/B Eng.: 0:0

Remarks

Bottom toolbar: 6 (Navigation), 4 (OK/Cancel)

5. You can select [Arrival] or [Departure] tab to change screen.
6. If you want to change page, select [<<] or [>>].
7. If you want to see print preview, select [Print Preview].
And also. you can print from print preview screen.
8. If you want to make print, select [Print].
9. If you want to export to Excel, select [Export to Excel].
10. If you want to change page, select [<<] or [>>].
11. If you want to return to “Main Menu screen”, select [Close].

7. When you want to make “Engine Performance Report”

1. On the “Main Menu screen”(Fig.7-1), select [Engine Performance Report].
2. “Engine Performance Report screen”(Fig.7-2) is displayed. You can enter the data into yellow colored field.
3. You can change the displayed report by selecting [<] or [>]. And also, you can select from list box by selecting ▼.

Fig.7-1 Main Menu screen

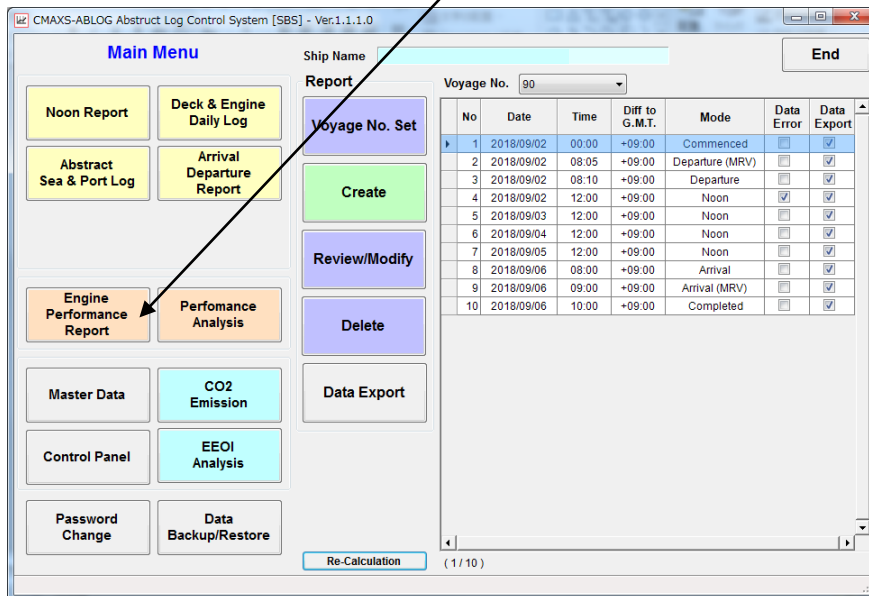


Fig.7-2 Engine Performance Report screen

4. If you want to make new report, select [Add].
5. If you want to modify existing report, select [Modify].
6. If you want to delete existing report, select [Delete].
7. After finish the entering, select [Save] to save data.
8. If you want to see print preview, select [Print Preview]. And also, you can print from print preview screen.
9. If you want to make print, select [Print].
10. If you want to export to Excel, select [Export to Excel].
11. If you want to return to “Main Menu screen”, select [Close].

8. When you want to refer performance analysis results

8. 1 Noon Data

1. On the “Main Menu screen”(Fig.8-1), select [Performance Analysis].
2. “Noon Data screen”(Fig.8-2)“ is displayed.
Only the data that matches the following conditions are displayed.
Speed>0 & Distance Run HUW=HP & Mode=Noon
3. You can extract the data within specified period by selecting “Date Range”.

Fig.8-1 Main Menu screen

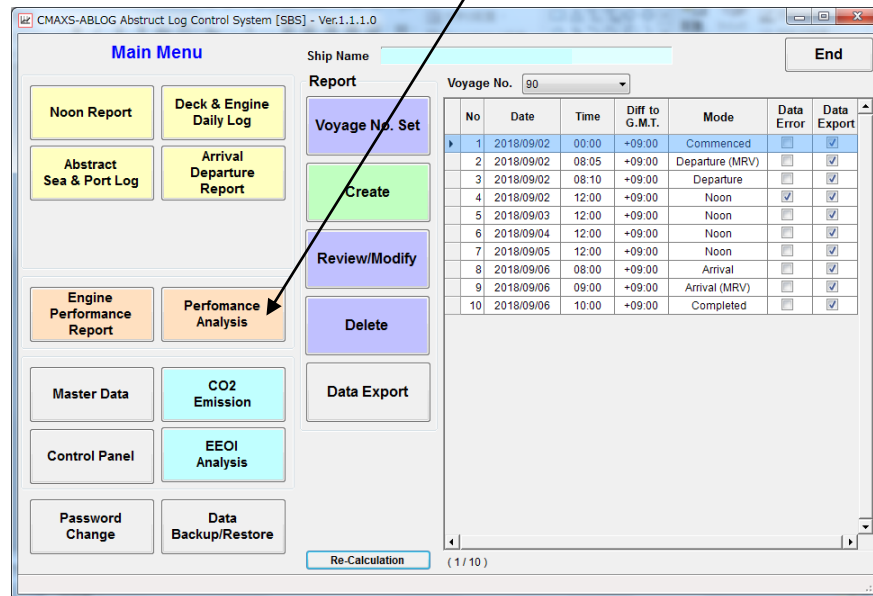


Fig.8-2 Noon Data screen

ADMAX Abstract Log Control System Ver.7.0.0-TM - [Performance Analysis]

Performance Analysis M.T. I.H. MARU Date Range: 2012/03/02 20:00 - 2012/04/21 03:00

M/E : 7UEC 45 LA (AKASAKA) 6,230.4 (kW), 8,471.0 (PS) x 158.0 (rpm)

	Normal Range		Average		1	2	3	4	5	6	7	8	
	Low	High	A	B									
Speed (knot)	9.00	18.00	11.19	11.24	2012/04/21	2012/04/20	2012/04/19	2012/03/27	2012/03/24	2012/03/23	2012/03/22	2012/03/21	2012
M/E RPM (rpm)	94.8	152.0	129.8	135.2	128.0	128.0	131.5	124.3	128.0	128.0	128.0	140.0	
M/E RPM (%)	60.0	95.0	82.16	85.56	81.0	81.0	83.2	78.6	81.0	81.0	81.0	88.6	
M/E Power (kW)	1,246.1	5,607.4	4,372.5	4,405.5	4,335.4	4,404.2	4,732.5	3,822.7	3,928.6	3,967.0	4,055.2	4,516.2	4
M/E Power (PS)	1,694.2	7,623.9	5,945.0	5,989.9	5,894.5	5,988.0	6,434.3	5,197.4	5,341.4	5,393.6	5,513.5	6,140.4	6
M/E Power (%)	20.0	90.0	70.18	70.71	69.6	70.7	76.0	61.4	63.1	63.7	65.1	72.5	
Wind Force (BF) (Mean)	-	-	5.9	6.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0	8.0	
F.O.C. (MT/Day)	10.00	26.00	19.16	19.31	19.00	19.30	20.76	16.73	17.20	17.37	17.76	19.80	
Exh. Gas Temp. (°C) High	250	380	332.0	332.0	340	340	350	340	330	330	330	330	
Exh. Gas Temp. (°C) Mean	250	365	319.7	319.7	332	335	340	330	317	315	315	315	
Exh. Gas Temp. (°C) Low	250	350	295.8	295.1	325	330	330	320	345	300	300	300	
Exh. Gas T/C (°C) In	300	500	402.2	402.0	419	425	414	415	407	405	393	401	
Exh. Gas T/C (°C) Out	250	400	293.1	292.6	322	326	315	316	309	307	294	289	
T/C RPM (rpm)	5,000	20,000	12.3	12.3	11	11	12	11	11	12	11	13	
Propeller Slip (%)	-10.0	20.0	-11.46	20.59	-2.0	4.8	11.4	7.4	7.3	18.1	4.4	38.4	
Propeller Margin (%)	-6.0	10.0	6.65	3.48	7.6	8.1	8.0	6.3	4.7	5.0	5.6	1.2	
Sea Margin (%)	-10.0	200.0	257.78	268.30	14.2	47.8	85.3	56.5	44.2	124.0	34.1	401.8	
85% MCO Conversion M/E RPM (rpm)	-	-	153.10	0.00	-	-	-	-	-	-	-	-	
85% MCO Conversion Speed (knot)	-	-	12.94	0.00	-	-	-	-	-	-	-	-	
75% MCO Conversion M/E RPM (rpm)	-	-	131.82	137.49	131.2	130.6	130.9	132.9	135.6	135.2	134.2	141.6	
75% MCO Conversion Speed (knot)	-	-	11.43	11.45	14.10	13.08	12.22	12.95	13.24	11.66	13.50	9.19	

Red Color = Beyond Normal Range

Buttons: [Print], [Filter], [Normal Range], [OK], [Preview], [Close]

4. If you want to extract the data, select [Filter].
(Refer to next page.)
5. If you want to change Normal Range, select [Normal Range].
6. After finish the entering, select [OK] to save data.
7. If you want to refer the print preview, select [Preview].
And also, you can print from print preview screen.
8. If you want to print screen, select [Print].
9. If you want to return to “Main Menu screen”, select [Close].

Fig.8-3 Filter Condition screen

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Filter

Set filter condition and click [OK] button.

	From	To
<input type="checkbox"/> Ship Speed (knot)	0.00	20.00
<input type="checkbox"/> M/E RPM (rpm)	0.0	158.0
<input type="checkbox"/> M/E RPM (%)	0.0	100.0
<input type="checkbox"/> M/E Power (kW)	0.0	6,230.4
<input type="checkbox"/> M/E Power (PS)	0.0	8,471.0
<input type="checkbox"/> M/E Power (%)	0.0	100.0
<input type="checkbox"/> Wind Force (BF)	0.0	12.0
<input type="checkbox"/> F.O.C. (MT/Day)	0.00	100.00
<input type="checkbox"/> Displacement (MT)	0.0	30,000.0
<input type="checkbox"/> Exh. Gas Temp. (°C) High	0	600
<input type="checkbox"/> Exh. Gas Temp. (°C) Mean	0	600
<input type="checkbox"/> Exh. Gas Temp. (°C) Low	0	600
<input type="checkbox"/> Exh. Gas T/C (°C) In	0	600
<input type="checkbox"/> Exh. Gas T/C (°C) Out	0	600
<input type="checkbox"/> T/C RPM (rpm)	0.0	20,000.0
<input type="checkbox"/> Propeller Slip (%)	-100.0	100.0
<input type="checkbox"/> Propeller Margin (%)	-100.0	100.0

⑪

OK Cancel

<Filter condition>

- Speed (knot)
- M/E RPM (rpm)
- M/E RPM (%)
- M/E Power (kW)
- M/E Power (PS)
- M/E Power (%)
- Wind Force (BF)
- F.O.C. (MT/Day)
- Displacement (MT)
- Exh. Gas Temp. (°C) High
- Exh. Gas Temp. (°C) Mean
- Exh. Gas Temp. (°C) Low
- Exh. Gas T/C (°C) In
- Exh. Gas T/C (°C) Out
- T/C RPM (rpm)
- Propeller Slip (%)
- Propeller Margin (%)

10. Select check box to put check mark for each items, and enter data range if necessary.

If you put check mark to plural items, the data are extracted by AND condition.

11. Select [OK].

12. If you want to cancel the extracted data, un-check the all check mark by selecting check box.

And then, select [OK].

<Calculation formula>

●Propeller Slip(%) :

$$([M/E \text{ RPM}] * 60 * [\text{Propeller Pitch}] / 1852 - [\text{Speed}]) * 100 / [M/E \text{ RPM}] * 60 * [\text{Propeller Pitch}] / 1852$$

●Propeller Margin(%) :

$$([M/E \text{ Power}\%] * 10000^{(1/3)} - [M/E \text{ RPM}\%])$$

●Sea Margin(%) : Refer to next page.

●85% MCO Conversion :

When [Propeller Margin] < 0 -> [M/E RPM85%] and [Speed85%] calculated the following formula are indicated.

$$[M/E \text{ RPM85}\%] = (85 / [M/E \text{ Power}\%])^{(1/3)} * [M/E \text{ RPM}\%]$$

$$[\text{Speed85}\%] = [\text{Speed}] * [M/E \text{ RPM85}\%] / [M/E \text{ RPM}\%]$$

When [Propeller Margin] >= 0 -> “-“ is indicated.

●75% MCO Conversion :

When [Propeller Margin] < 0 -> “-“ is indicated.

When [Propeller Margin] >= 0 -> [M/E RPM75%]及[Speed75%] calculated the following formula are indicated.

$$[M/E \text{ RPM75}\%] = (75 / [M/E \text{ Power}\%])^{(1/3)} * [M/E \text{ RPM}\%]$$

$$[\text{Speed75}\%] = [\text{Speed}] * [M/E \text{ RPM75}\%] / [M/E \text{ RPM}\%]$$

●Average A : Simple average of Noon Data is calculated and indicated.

●Average B : The value calculated the following formula are indicated.

When only the data of [Propeller Margin] < 0 are existing

When Data number <= 2 -> Average of all data

When Data number > 2 -> Average without minimum data of [Propeller Margin]

When only the data of [Propeller Margin] > 0 are existing

When Data number <= 2 -> Average of all data

When Data number > 2 -> Average without maximum data of [Propeller Margin]

When the data of [Propeller Margin] > 0 and [Propeller Margin] < 0 are existing

When Data number <= 2 -> Average of all data

When Data number > 2 -> Average without minimum and maximum data of [Propeller Margin]

The calculation method of Sea Margin

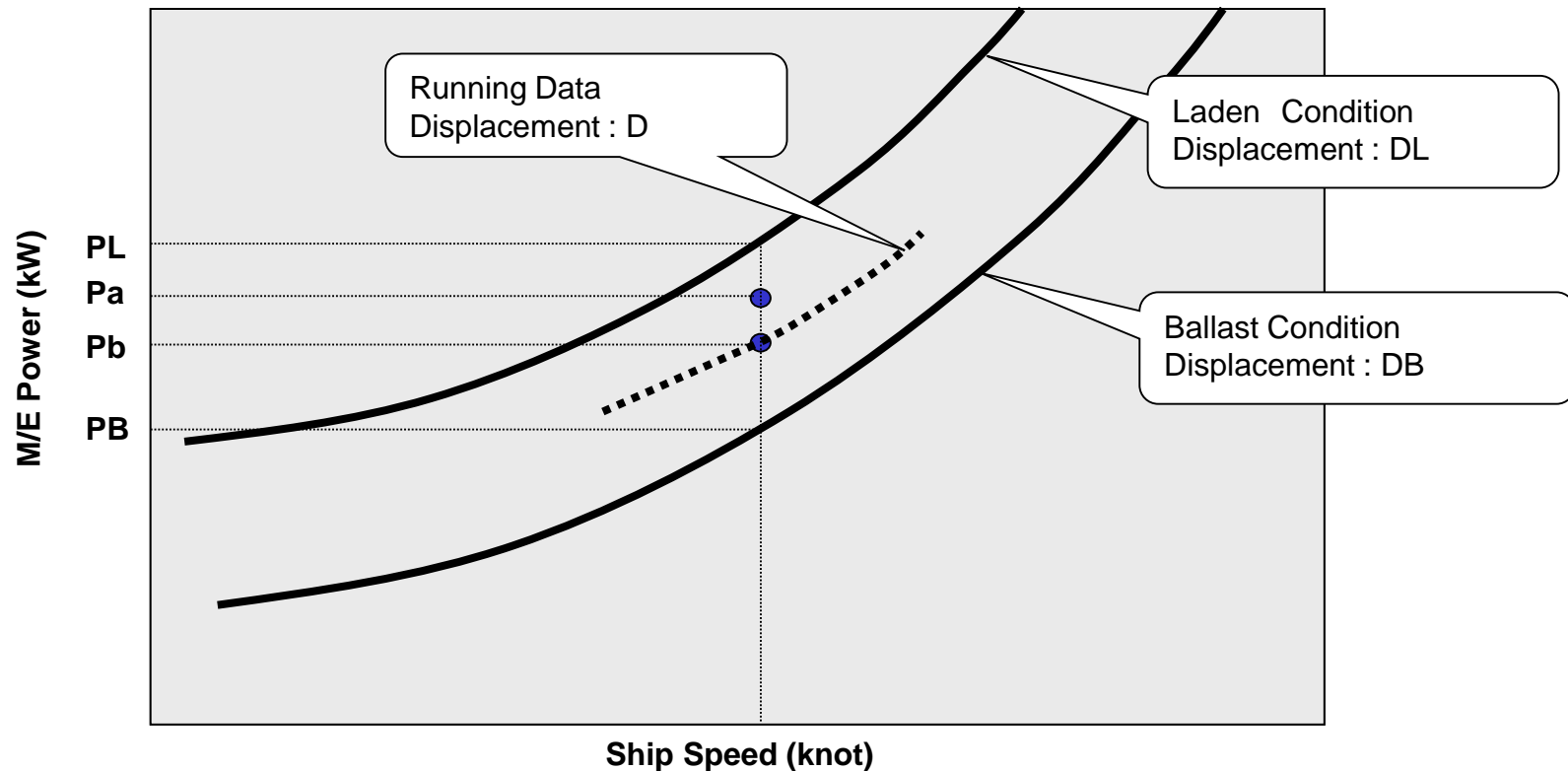
1. The design value of Ship Speed-M/E Power in Laden and Ballast Condition is registered as Base Data.
2. Sea Margin is calculated by the following formulas.

$$\text{Sea Margin (\%)} = (P_a - P_b) / P_b \times 100$$

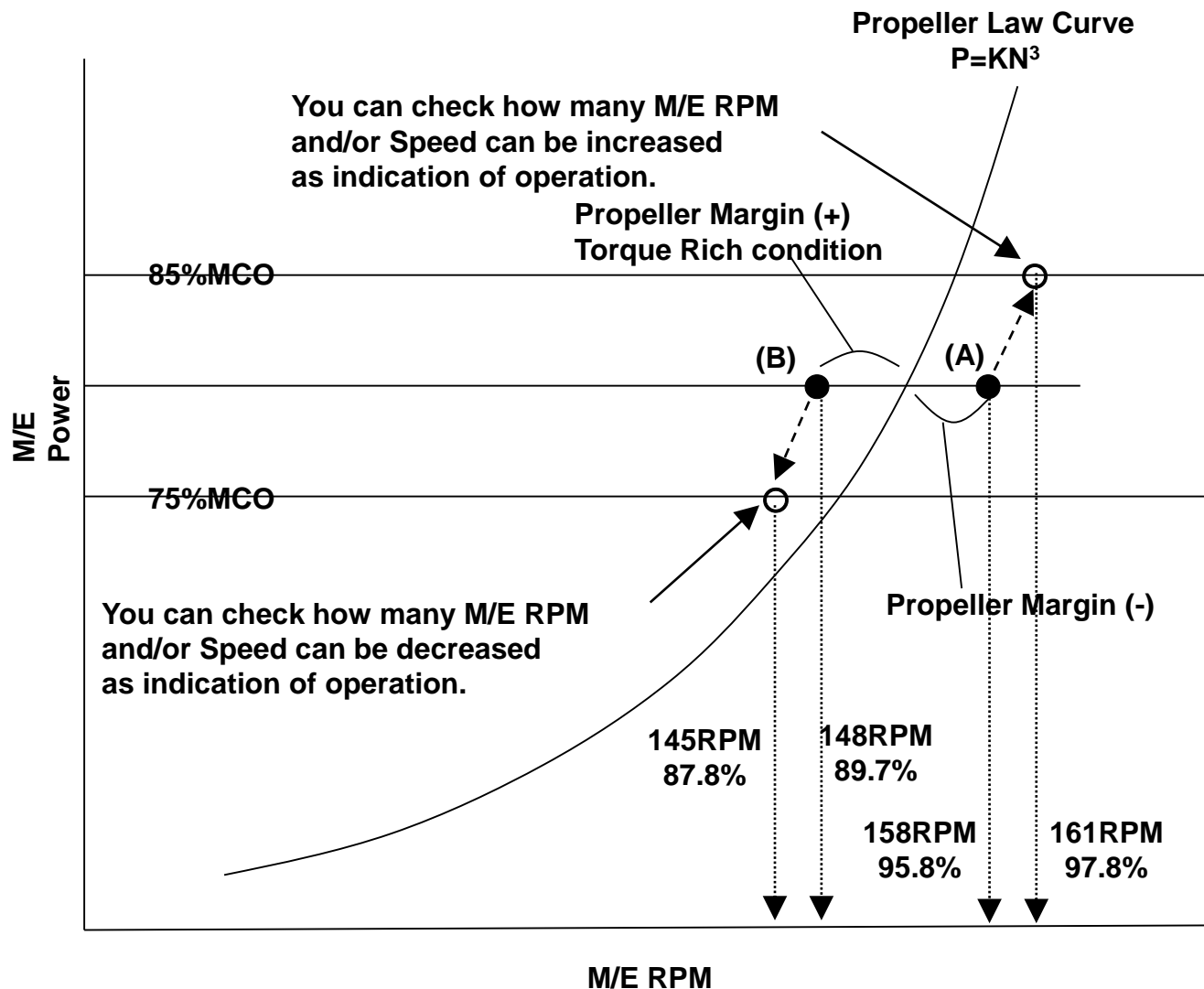
P_a = Calculated actual power

$$(DL - DB) : (D - DB) = (PL - PB) : (P_b - PB)$$

$$P_b = (D - DB) \times (PL - PB) / (DL - DB) + PB$$



Supplementary explanation for 85% or 75%MCO conversion



<Calculation example>

M/E MCO 6000PS x 165RPM

In case of (A)

M/E RPM = N = 158RPM

M/E RPM% = N% = 95.8%

M/E Power = P = 4800PS

M/E Power% = P% = 80.0%

Propeller Margin = PM =

$$(P\% \times 10^4)^{1/3} - N\% = -3.0\%$$

Ship Speed = V = 12.5Kt

85%MCO RPM% = N85% =

$$(85 / (P\%))^{1/3} \times (N\%) = 97.8\%$$

85%MCO RPM = N85 =

$$165 \times 0.978 = 161\text{RPM}$$

85%MCO Speed = V85 =

$$V \times N85\% / N\% = 12.76\text{kt}$$

In case of (B)

M/E RPM = N = 148RPM

M/E RPM% = N% = 89.7%

M/E Power = P = 4800PS

M/E Power% = P% = 80.0%

Propeller Margin = PM =

$$(P\% \times 10^4)^{1/3} - N\% = 3.1\%$$

Ship Speed = V = 11.0Kt

75%MCO RPM% = N75% =

$$75 / (P\%)^{1/3} \times (N\%) = 87.8\%$$

75%MCO RPM = N75 =

$$165 \times 0.878 = 145\text{RPM}$$

75%MCO Speed = V75 =

$$V \times N75\% / N\% = 10.76\text{kt}$$

8. 2 Power Curve

1. On the “Noon Data screen”(Fig.8-2), select [Power Curve] tab.
2. “Power Curve screen”(Fig.8-3) is displayed.
Plot data are indicated the data displayed on the “Noon Data screen”.
3. You can extract the data within specified period by selecting “Date Range”.

Fig.8-3 Power Curve screen

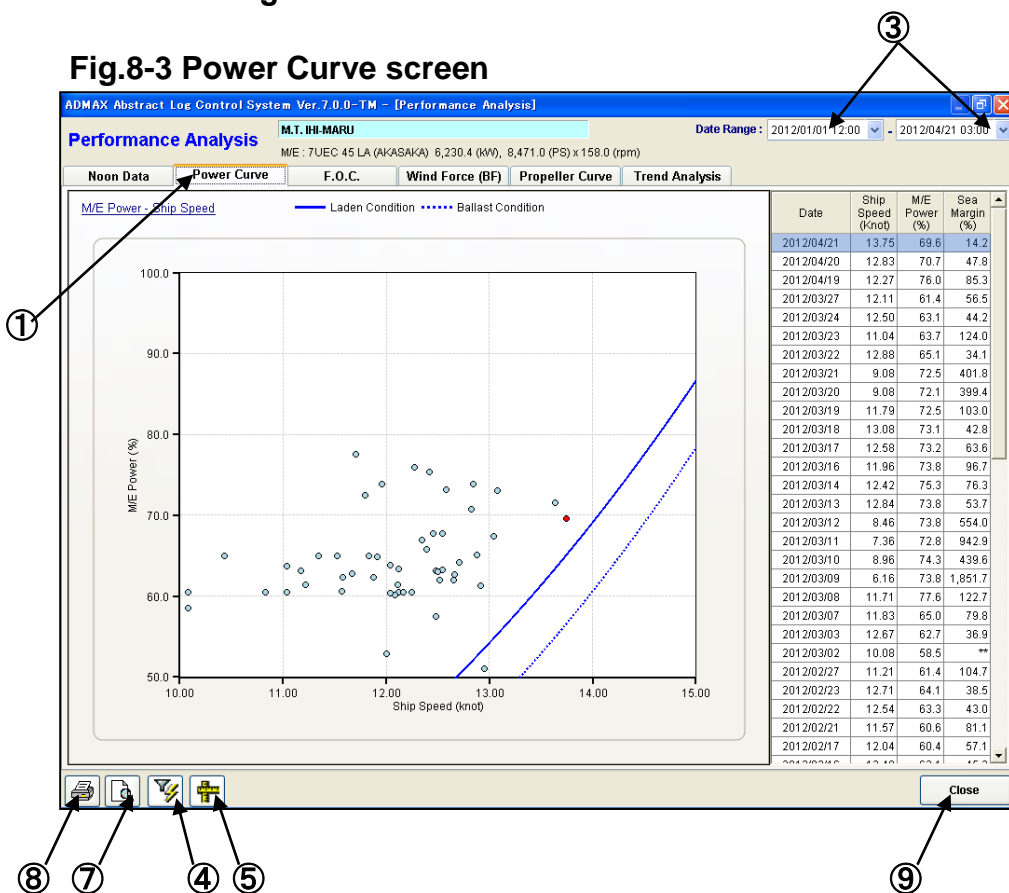


Fig.8-4 Graph Scale screen

Performance Analysis Graph Scale

Graph Name : Power Curve

Item	Unit	Scale Min.	Scale Max.
Ship Speed	knot	10.00	17.00
M/E Power	%	50.0	100.0

Buttons: [OK] [Cancel]

4. If you want to extract the data, select [Filter].
(Refer to page 33.)
5. If you want to change graph scale, select [Scale].
You can change scale on the “Graph Scale screen”(Fig.8-4).
6. After finish the entering, select [OK].
7. If you want to refer the print preview, select [Preview].
And also. you can print from print preview screen.
8. If you want to print screen, select [Print].
9. If you want to return to “Main Menu screen”, select [Close].

8. 3 F.O. Consumption

1. On the “Noon Data screen”(Fig.8-2), select [F.O.C.] tab.
2. “F.O. Consumption screen”(Fig.8-5) is displayed.
Plot data are indicated the data displayed on the “Noon Data screen”.
3. You can extract the data within specified period by selecting “Date Range”.

Fig.8-5 F.O. Consumption screen

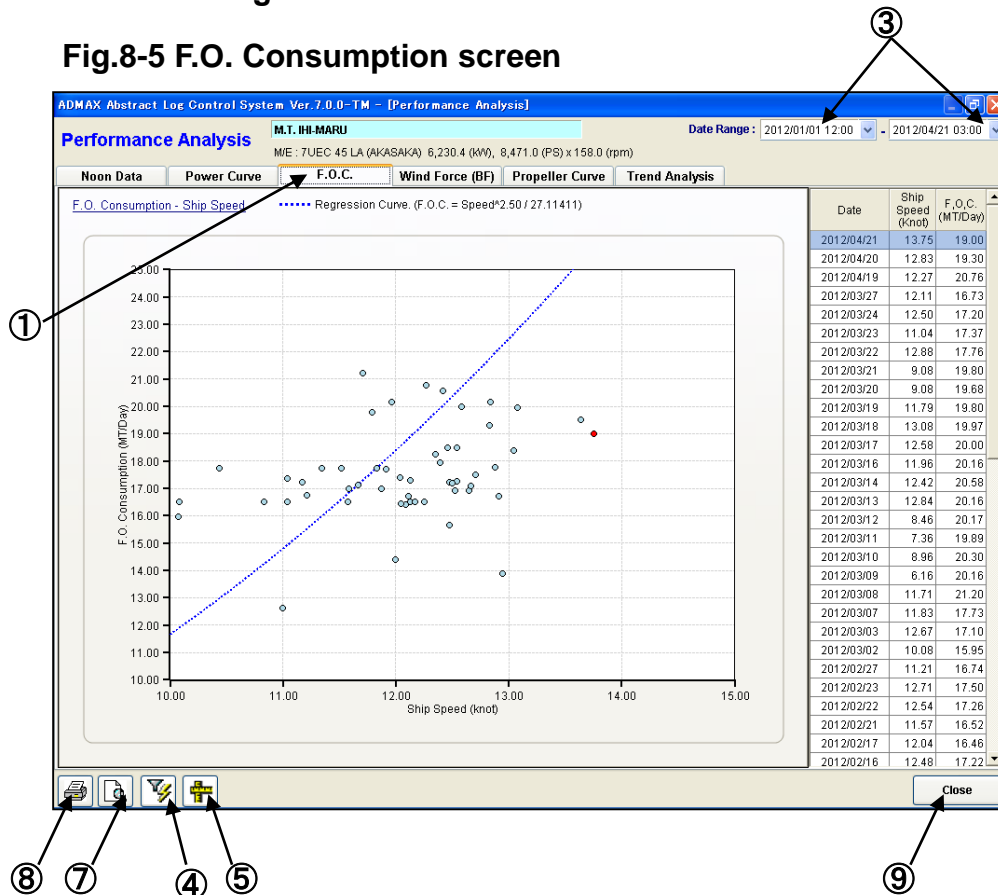


Fig.8-6 Graph Scale screen

Performance Analysis Graph Scale

Graph Name : F.O.C.

Item	Unit	Scale Min.	Scale Max.
Ship Speed	knot	10.00	17.00
F.O. Consumption	MT/Day	10.00	27.00

OK Cancel

Numbered callout: 6 (OK button).

4. If you want to extract the data, select [Filter].
(Refer to page 33.)
5. If you want to change graph scale, select [Scale].
You can change scale on the “Graph Scale screen”(Fig.8-6).
6. After finish the entering, select [OK].
7. If you want to refer the print preview, select [Preview].
And also. you can print from print preview screen.
8. If you want to print screen, select [Print].
9. If you want to return to “Main Menu screen”, select [Close].

8. 4 Wind Force

1. On the “Noon Data screen”(Fig.8-2), select [Wind Force] tab.
2. “Wind Force screen”(Fig.8-7) is displayed.
Plot data are indicated the data displayed on the “Noon Data screen”.
3. You can extract the data within specified period by selecting “Date Range”.

Fig.8-7 Wind Force screen

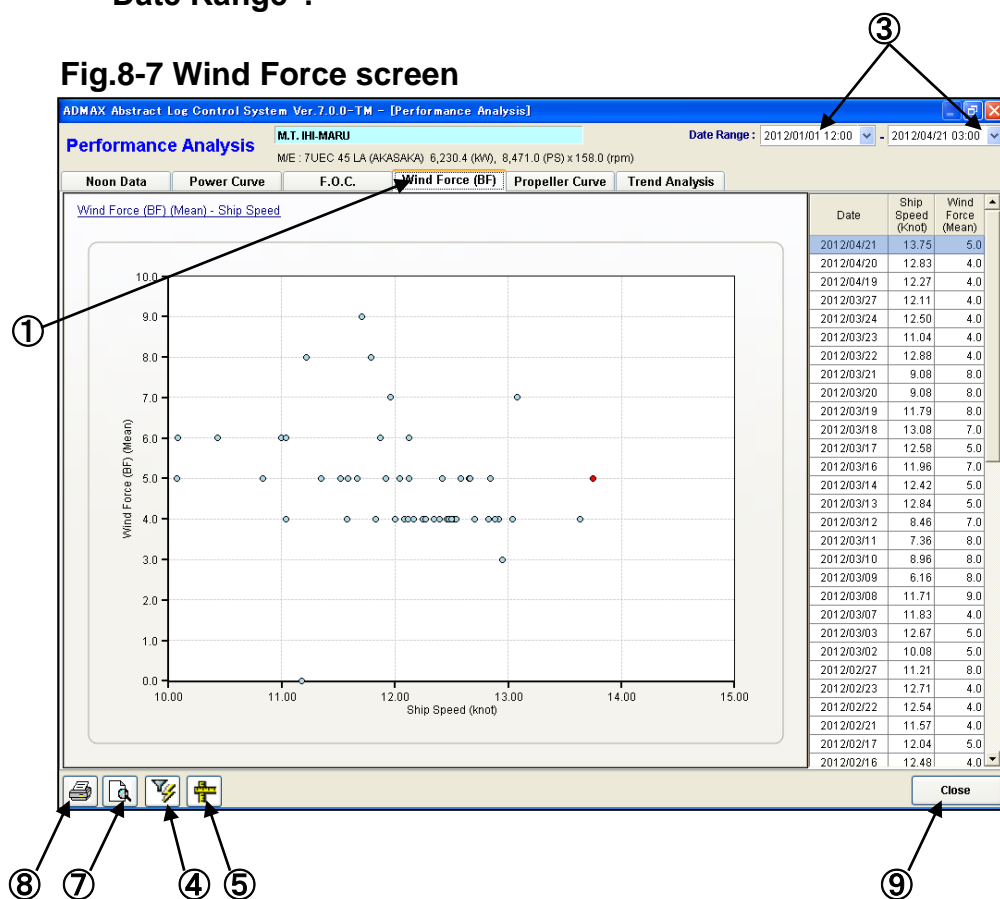


Fig.8-8 Graph Scale screen

Performance Analysis Graph Scale

Graph Name : Wind Force (BF)

Item	Unit	Scale Min.	Scale Max.
Ship Speed	knot	10.00	15.00
Wind Force (Mean)		0.0	10.0

OK Cancel

4. If you want to extract the data, select [Filter].
(Refer to page 30.)
5. If you want to change graph scale, select [Scale].
You can change scale on the “Graph Scale screen”(Fig.8-8).
6. After finish the entering, select [OK].
7. If you want to refer the print preview, select [Preview].
And also. you can print from print preview screen.
8. If you want to print screen, select [Print].
9. If you want to return to “Main Menu screen”, select [Close].

8. 5 Propeller Curve

1. On the “Noon Data screen”(Fig.8-2), select [Propeller Curve] tab.
2. “Propeller Curve screen”(Fig.8-9) is displayed.
Plot data are indicated the data displayed on the “Noon Data screen”.
3. You can extract the data within specified period by selecting “Date Range”.
4. Data list of specified date is displayed.
You can select the date by selecting [<<] or [>>] button or selecting from list box.

Fig.8-9 Propeller Curve screen

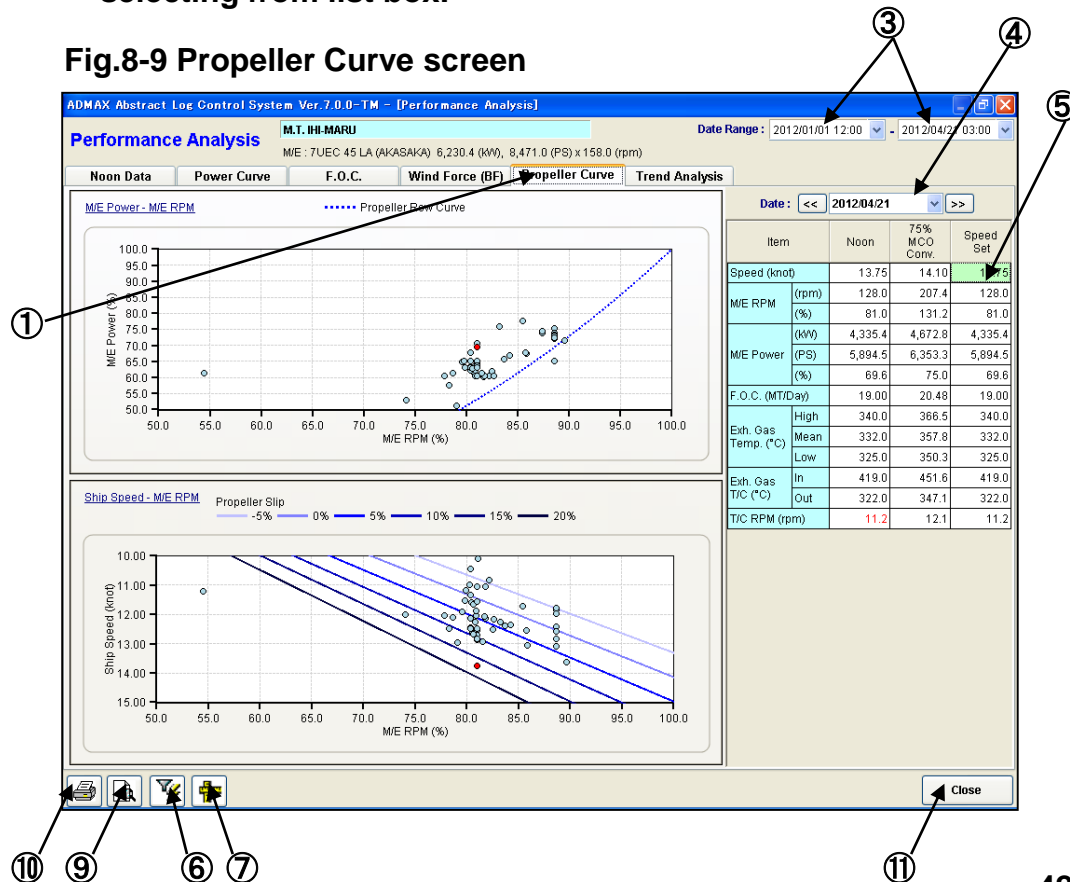


Fig.8-10 Graph Scale screen

Performance Analysis Graph Scale

Graph Name : Propeller Curve

Item	Unit	Scale Min.	Scale Max.
M/E RPM	%	50.0	100.0
M/E Power	%	50.0	100.0
Ship Speed	knot	10.00	15.00

OK Cancel

5. If you enter speed of “Speed Set” column, M/E RPM~T/C RPM at the speed are automatically calculated and displayed.
(Refer to next page for calculation formula.)
6. If you want to extract the data, select [Filter].
(Refer to page 33.)
7. If you want to change graph scale, select [Scale].
You can change scale on the “Graph Scale screen”(Fig.8-10).
8. After finish the entering, select [OK].
9. If you want to refer the print preview, select [Preview].
And also. you can print from print preview screen.
10. If you want to print screen, select [Print].
11. If you want to return to “Main Menu screen”, select [Close].

<Calculation formula>

-“Noon”column-

- Speed(knot) : [Speed_HP]
- M/E RPM(rpm) : [ME_RPM]
- M/E RPM(%) : [ME_RMPp]
- M/E Power(kW) : [ME_Power1]
- M/E Power(PS) : [ME_Power2]
- M/E Power(%) : [ME_Powerp]
- F.O.C(MT/Day) : [FO_Cons]*24/1000000
- Exh.Gas Temp.(°C)(High) : [MEexh_TempH]
- Exh.Gas Temp.(°C)(Mean) : [MEexh_TempM]
- Exh.Gas Temp.(°C)(Low) : [MEexh_TempL]
- Exh.Gas T/C(°C)(In) : [MEtcin_Temp]
- Exh.Gas T/C(°C)(Out) : [MEtcout_Temp]
- T/C RPM(rpm) : [MEtc_RPM]

-“85%MCO Conv.”column-

- Speed(knot) : [Speed85]
- M/E RPM(rpm) : [ME_RPM85]*{Master_Data}[MCR_RPM]/100
- M/E RPM(%) : [ME_RPM85]
- M/E Power(kW) : [ME_Power1]*0.85
- M/E Power(PS) : [ME_Power2]*0.85
- M/E Power(%) : 85
- F.O.C(MT/Day) : [FO_Cons]*24/1000000*85/[ME_Powerp]
- Exh.Gas Temp.(°C)(High) : [MEexh_TempH] *85/[ME_Powerp]
- Exh.Gas Temp.(°C)(Mean) : [MEexh_TempM] *85/[ME_Powerp]
- Exh.Gas Temp.(°C)(Low) : [MEexh_TempL] *85/[ME_Powerp]
- Exh.Gas T/C(°C)(In) : [MEtcin_Temp] *85/[ME_Powerp]
- Exh.Gas T/C(°C)(Out) : [MEtcout_Temp] *85/[ME_Powerp]
- T/C RPM(rpm) : [MEtc_RPM] *85/[ME_Powerp]

-“Speed Set”column-

- Speed(knot) : Entered value
- M/E RPM(rpm) :
M/E RPM(%)*{Master_Data}[MCR_RPM]/100
- M/E RPM(%) : [ME_RMPp]*Speed/[Speed_HP]
- M/E Power(kW) : [ME_Power1]*M/E Power(%)
- M/E Power(PS) : [ME_Power2]*M/E Power(%)
- M/E Power(%) : (M/E RPM(%)/[ME_RMPp])^3*[ME_Powerp]
- F.O.C(MT/Day) :
[FO_Cons]*24/1000000*M/E Power(%)/[ME_Powerp]
- Exh.Gas Temp.(°C)(High) :
[MEexh_TempH]*M/E Power(%)/[ME_Powerp]
- Exh.Gas Temp.(°C)(Mean) :
[MEexh_TempM]*M/E Power(%)/[ME_Powerp]
- Exh.Gas Temp.(°C)(Low) :
[MEexh_TempL]*M/E Power(%)/[ME_Powerp]
- Exh.Gas T/C(°C)(In) :
[MEtcin_Temp]*M/E Power(%)/[ME_Powerp]
- Exh.Gas T/C(°C)(Out) :
[MEtcout_Temp]*M/E Power(%)/[ME_Powerp]
- T/C RPM(rpm) :
[MEtc_RPM]*M/E Power(%)/[ME_Powerp]

8. 6 Trend Analysis

1. On the “Noon Data screen”(Fig.8-2), select [Trend Analysis] tab.
2. “Trend Analysis screen”(Fig.8-11) is displayed.
Plot data are indicated the data displayed on the “Noon Data screen”.
3. You can extract the data within specified period by selecting “Date Range”.

Fig.8-11 Trend Analysis screen

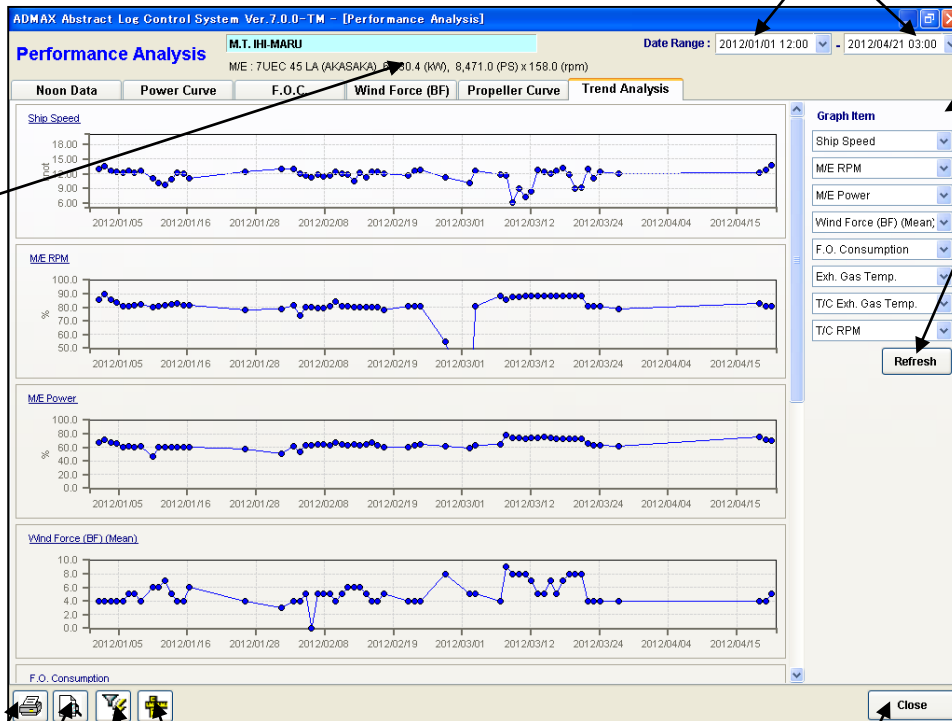


Fig.8-12 Graph Scale screen

Performance Analysis Graph Scale

Graph Name : Trend Analysis

Item	Unit	Scale Min.	Scale Max.
Ship Speed	knot	5.00	17.00
M/E RPM	%	50.0	100.0
M/E Power	%	0.0	100.0
Wind Force (Mean)		0.0	10.0
F.O. Consumption	MT/Day	0.0	30.0
Exh. Gas Temp.	°C	200	500
T/C Exh. Gas Temp.	°C	200	500
T/C RPM	rpm	10000.0	20000.0
Propeller Slip	%	-2.0	3.0
Propeller Margin	%	-10.0	100.0
Sea Margin	%	-20.0	100.0

OK Cancel

4. If you want to specify the displayed item, select item and select [Refresh].
5. If you want to extract the data, select [Filter].
(Refer to page 30.)
6. If you want to change graph scale, select [Scale].
You can change scale on the “Graph Scale screen”(Fig.8-12).
7. After finish the entering, select [OK].
8. If you want to refer the print preview, select [Preview].
And also. you can print from print preview screen.
9. If you want to print screen, select [Print].
10. If you want to return to “Main Menu screen”, select [Close].

9. When you want to make “Data Export”

If abstract log data is sent from the ship everyday, HQS system can be referred latest report (Noon Report, Deck & Engine Daily Log, Abstract Sea & Port Log, Arrival/Departure Report) and analyzed results, Latest master data is automatically exported at all times.

1. On the “Main Menu screen”(Fig.9-1), select [Data Export].
2. “Data Export dialog”(Fig.9-2) is displayed.

Select the kind of data you want to export.

- Abstract Log -> Everyday
 - Time Sheet
 - Ullage Report
 - Engine Performance Report
- } -> End of Voy.

Fig.9-1 Main Menu screen

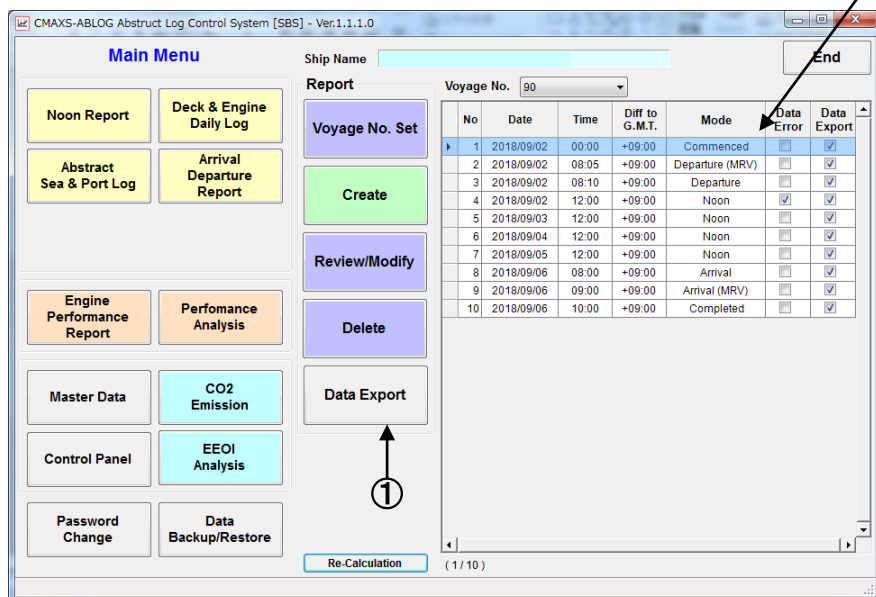
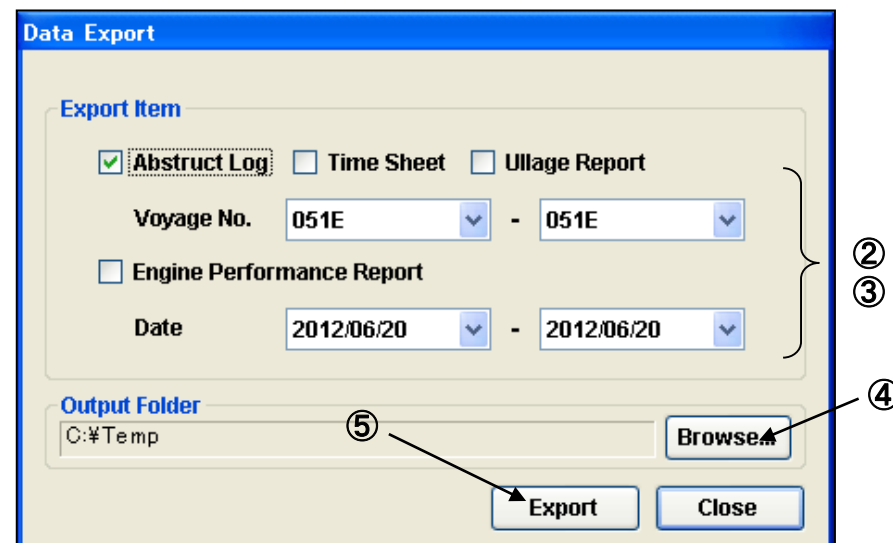


Fig.9-2 Data Export dialog



3. Set the data range by selecting Voy.No. or Date from list box.
4. Output folder can be changed by selecting [Browse]. However, you don't need to change default setting.
5. Select [Export] to start exporting. When exporting is completed, completion message is displayed. And then, select [OK]. Following file is made into specified folder.
 ABLOG_EXP_***_yyyymmddhhmm.mlx
 (***) : Ship code、yyyymmddhhmm : DateTime)
6. Send the exported file as attached file of E-mail to HQS.
7. Check mark are put into “Data Export” column on the “Main Menu screen”.

10. When you want to refer and modify “Master Data”

Master data is set as factory setting by IMC. You can refer and modify master data anytime.

However, generally, you don't need to modify, because master data affects performance analysis results.

If you need to modify master date, please obtain prior permission from Headquarters.

1. On the “Main Menu screen”(Fig.10-1), select [Master Data].
2. “Master Data screen”(Fig.10-2) is displayed.

Fig.10-1 Main Menu screen

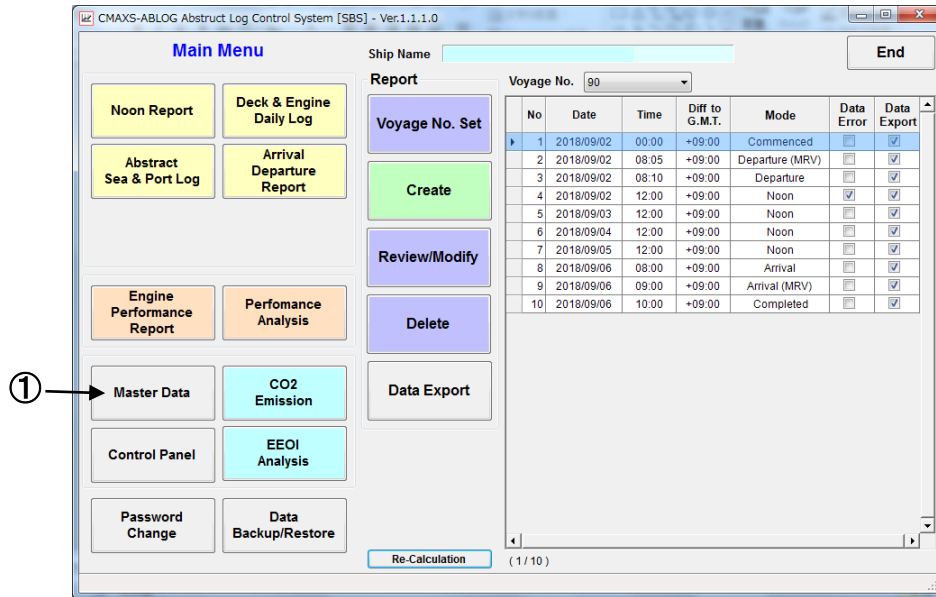
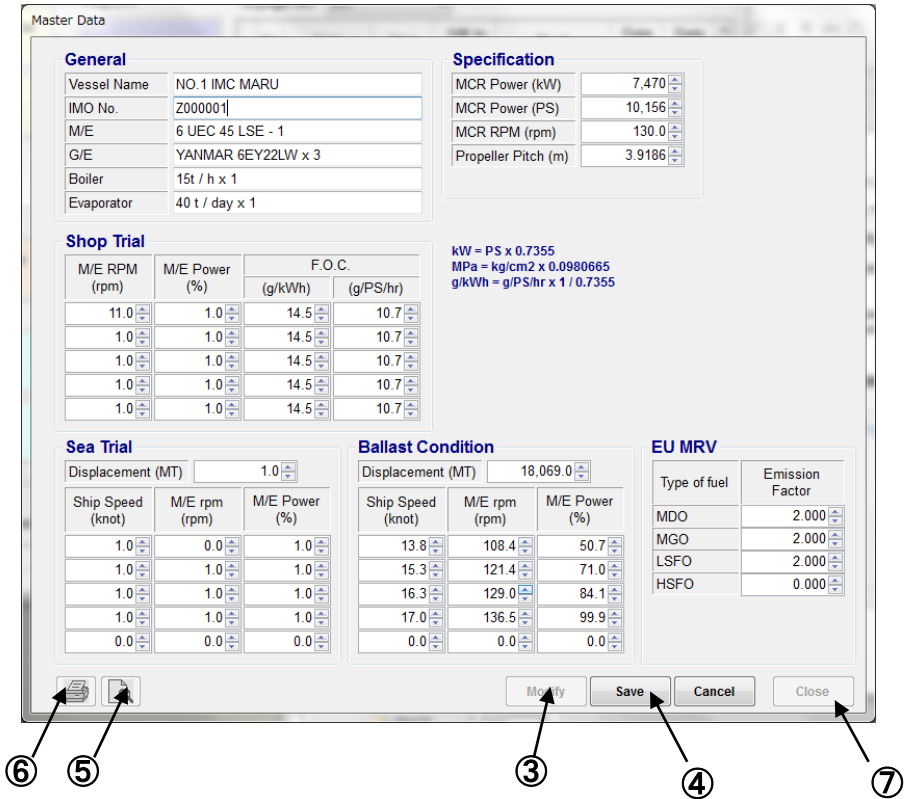


Fig.10-2 Master Data screen



3. If you want to modify, select [Modify].
4. After finish the entering, select [OK].
5. If you want to refer the print preview, select [Preview].
And also. you can print from print preview screen.
6. If you want to print screen, select [Print].
7. If you want to return to “Main Menu screen”, select [Close].

11. When you want to make “Data Backup/Restore”

11.1 Data Backup

In case that HDD of your PC is damaged by unexpected trouble, system program can be installed by install CD.
However, operating data can't be restored without backup data for operation. We strongly request that you should take data backup into electronic media like as MO or CD periodically just in case.(1 time/half voyage)

1. On the “Main Menu screen”(Fig.11-1), select [Data Backup/Restore].
2. “Data Backup/Restore(Backup) screen”(Fig.11-2) is displayed.

Fig.11-1 Main Menu screen

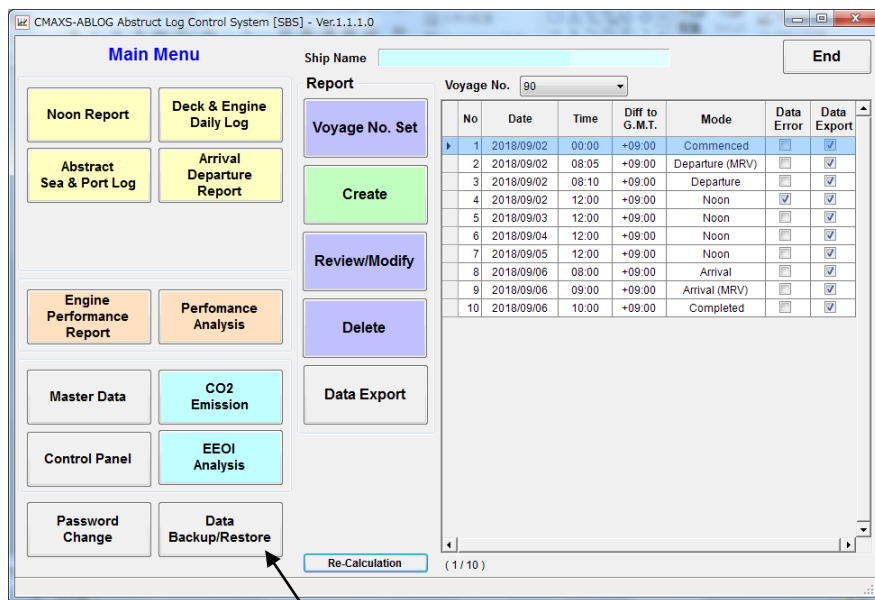
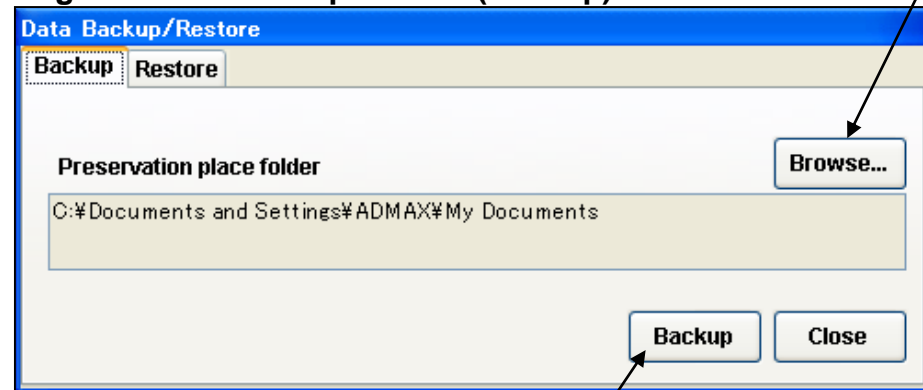


Fig.11-2 Data Backup/Restore(Backup) screen



3. Select the destination drive and folder for data backup by selecting [Browse].
4. Select [Backup].
When data backup is completed, completion message is displayed. And then, select [OK].
Following file is made into specified folder.
ABLOG_***_DBBACKUP_yyyymmddhhmm.zip
(***: Ship code、yyyymmddhhmm: DateTime)
5. Copy backup file to electronic media like as MO or CD etc.
And then, keep with caution.

11. 2 Data Restore

After finish to install the program and initial database, restore the backup data in accordance with following procedure. Please note that database is replaced to restored data, if you make this operation.

1. On the “Main Menu screen”(Fig.11-3), select [Data Backup /Restore].
2. “Data Backup/Restore(Backup) screen”(Fig.11-2) is displayed. And then, select [Restore]tab.

Fig.11-3 Main Menu screen

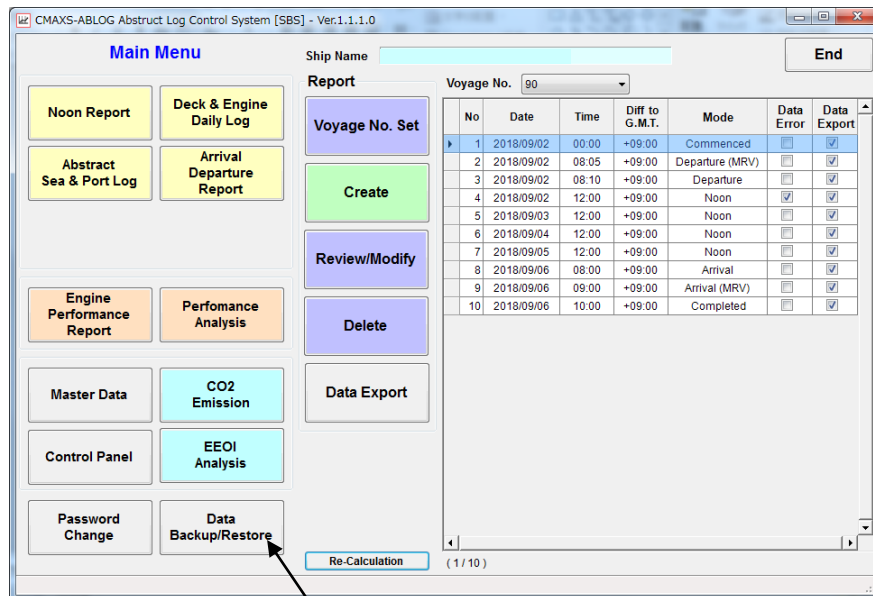
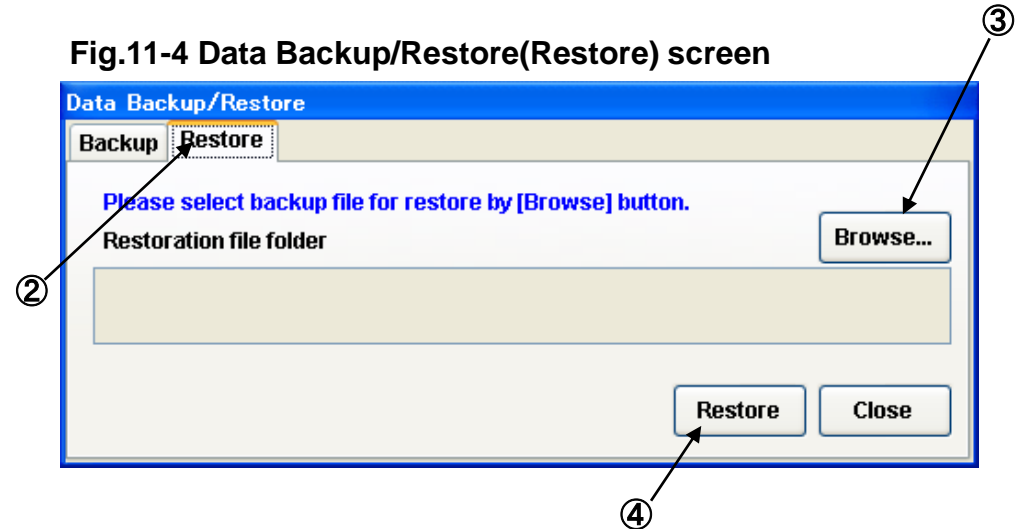


Fig.11-4 Data Backup/Restore(Restore) screen



3. Select the destination drive and folder existing backup data by selecting [Browse].
 4. Select data file for restore.
 5. Select [Restore].
- When data restore is completed, completion message is displayed. And then, select [OK].

12. Regarding “Control Panel”

[Control Panel] can be set by the user who has administrator or approve authority.

You can Guidance View and Date Format settings in the [Control Panel].

1. On the “Main Menu screen”(Fig.12-1), select [Control Panel].
2. “Optional Setting screen”(Fig.12-2) is displayed.
3. If you want to save, select [OK]
If you do not want to save, select [Close]

Fig.12-1 Main Menu screen

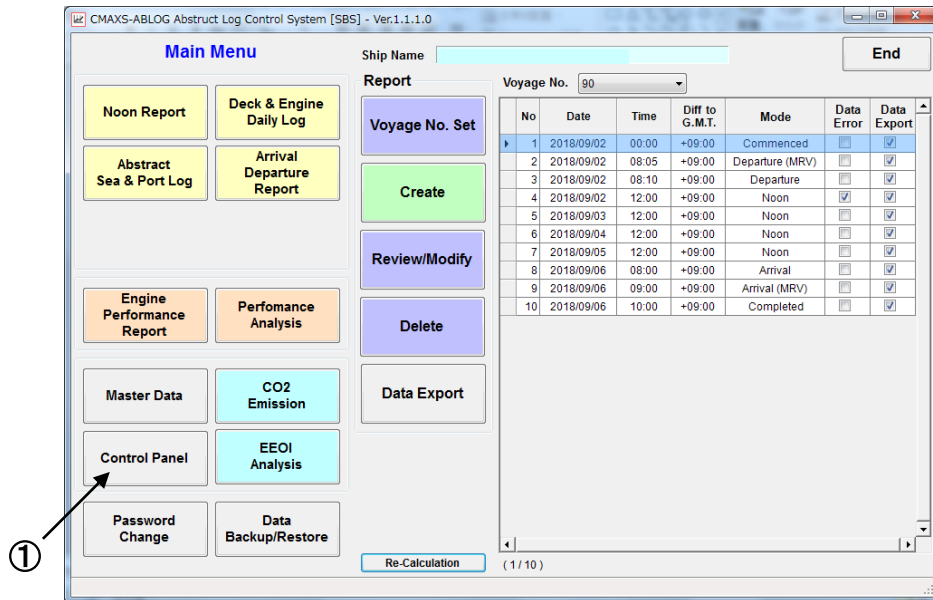
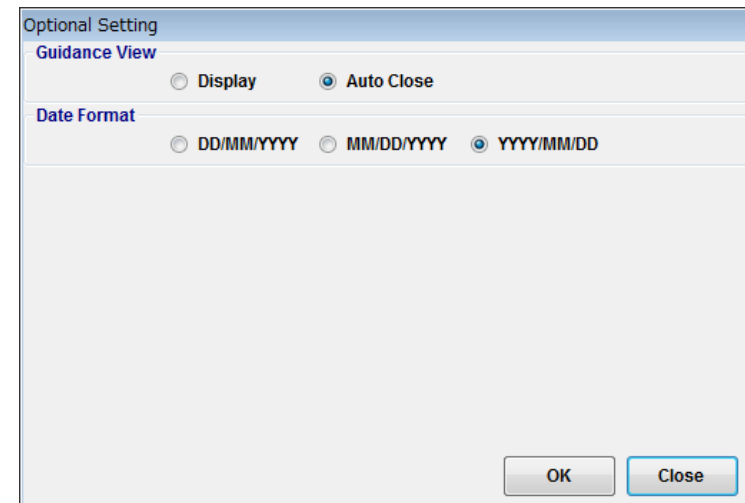


Fig.12-2 Optional Setting screen



13. Regarding “Password Change”

[Password Change] can be set by the user who has administrator.

1. On the “Main Menu screen”(Fig.13-1), select [Password Change].
2. “Password Change screen”(Fig.13-2) is displayed.
3. Select [Modify].
4. Change “Password”, “Name” and “Authority”
Password is 20 characters or less, Name is 40 characters or less
The maximum registration is 100 User
5. If you want to save, select [Save]
If you do not want to save, select [Cancel].
6. If you want to return to “Main Menu screen”, select [Close]

Fig.13-1 Main Menu screen

CMAXS-ABLOG Abstract Log Control System [SBS] - Ver.1.1.1.0

Main Menu

Ship Name: End

Report

Voyage No. Set: Voyage No. 90

Create

Review/Modify

Delete

Data Export

Re-Calculation (1/10)

No	Date	Time	Diff to G.M.T.	Mode	Data Error	Data Export
1	2018/09/02	00:00	+09:00	Commenced	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	2018/09/02	08:05	+09:00	Departure (MRV)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	2018/09/02	08:10	+09:00	Departure	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	2018/09/02	12:00	+09:00	Noon	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	2018/09/03	12:00	+09:00	Noon	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	2018/09/04	12:00	+09:00	Noon	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	2018/09/05	12:00	+09:00	Noon	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	2018/09/06	08:00	+09:00	Arrival	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	2018/09/06	09:00	+09:00	Arrival (MRV)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	2018/09/06	10:00	+09:00	Completed	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Buttons: Noon Report, Deck & Engine Daily Log, Abstract Sea & Port Log, Arrival Departure Report, Engine Performance Report, Performance Analysis, Master Data, CO2 Emission, Control Panel, EEOI Analysis, Password Change, Data Backup/Restore.

Fig.13-2 Password Change screen

Authority [A]:Administrator [B]:Approval [C]:Input [D]:Review

Password	Name	Authority
CAP	Captain	<input checked="" type="radio"/> [A] <input type="radio"/> [B] <input type="radio"/> [C] <input type="radio"/> [D]
CE	Chief Engineer	<input type="radio"/> [A] <input type="radio"/> [B] <input type="radio"/> [C] <input type="radio"/> [D]
CO	Chief Officer	<input type="radio"/> [A] <input checked="" type="radio"/> [B] <input type="radio"/> [C] <input type="radio"/> [D]
1E	1st Engineer	<input type="radio"/> [A] <input checked="" type="radio"/> [B] <input type="radio"/> [C] <input type="radio"/> [D]
2O	2nd Officer	<input type="radio"/> [A] <input type="radio"/> [B] <input checked="" type="radio"/> [C] <input type="radio"/> [D]
2E	2nd Engineer	<input type="radio"/> [A] <input type="radio"/> [B] <input checked="" type="radio"/> [C] <input type="radio"/> [D]
3O	3rd Officer	<input type="radio"/> [A] <input type="radio"/> [B] <input checked="" type="radio"/> [C] <input type="radio"/> [D]
3E	3rd Engineer	<input type="radio"/> [A] <input type="radio"/> [B] <input checked="" type="radio"/> [C] <input type="radio"/> [D]
		<input type="radio"/> [A] <input type="radio"/> [B] <input type="radio"/> [C] <input checked="" type="radio"/> [D]
		<input type="radio"/> [A] <input type="radio"/> [B] <input type="radio"/> [C] <input checked="" type="radio"/> [D]
		<input type="radio"/> [A] <input type="radio"/> [B] <input type="radio"/> [C] <input checked="" type="radio"/> [D]
		<input type="radio"/> [A] <input type="radio"/> [B] <input type="radio"/> [C] <input checked="" type="radio"/> [D]
		<input type="radio"/> [A] <input type="radio"/> [B] <input type="radio"/> [C] <input checked="" type="radio"/> [D]
		<input type="radio"/> [A] <input type="radio"/> [B] <input type="radio"/> [C] <input checked="" type="radio"/> [D]
		<input type="radio"/> [A] <input type="radio"/> [B] <input type="radio"/> [C] <input checked="" type="radio"/> [D]

1 / 100

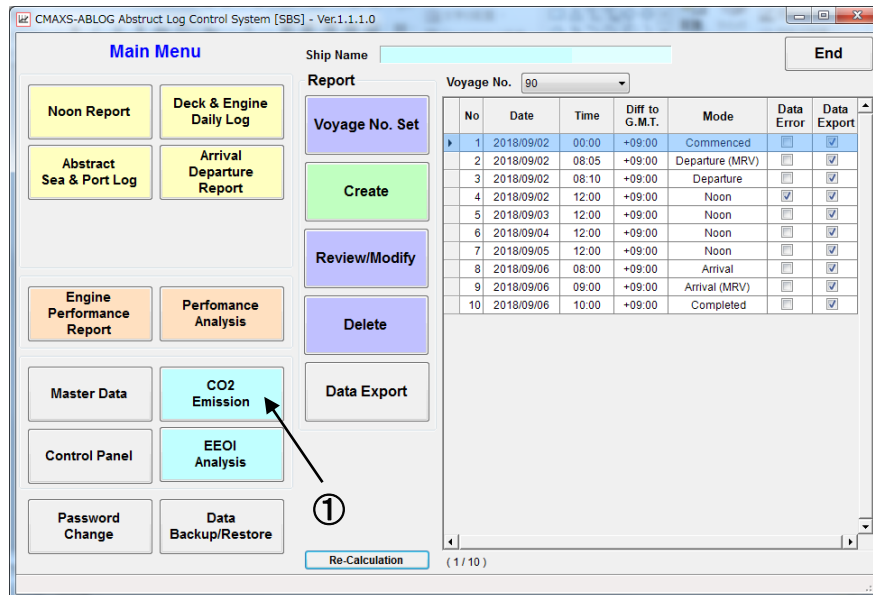
Modify Close

14. Reference of CO2 emission and submission data for verification.

In this function, CO2 emission is calculated by data of each report.

1. On the Fig.14-1 [Main screen], select [CO2 Emission].
Fig.14-2 [CO2 Emission screen] is displayed.

Fig.14-1 Main Menu screen

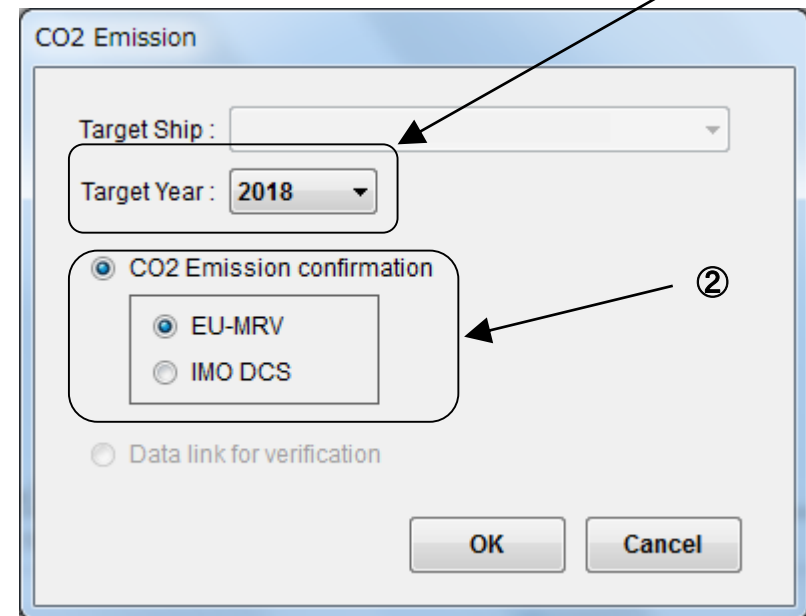


2. Set to the following items.

- ① Target Year
- ② CO2 Emission confirmation
 - (1): EU-MRV
 - (2): IMO DCS

Then select OK, you can refer to CO2 emission of each regulations.
(Fig.14-3-1~2)

Fig.14-2 CO2 Emission screen



3-1. If you choose EU-MRV(Fig.14-3-1)

You can refer each result of CO2 emission by changing following tab.

Detail Data tab: Reference on a per-voyage basis

Data Summary tab: Reference on an annual basis

3-2. If you choose IMO DCS(Fig.14-3-2).

You can refer result of CO2 emission.

4. You can output result of CO2 emission to any folder as Excel file by selecting “To Excel” button.

Fig.14-3-1 EU-MRV screen

EU-MRV Summary

1701 TEST

ADMAX ABLOG (Abstract Log Control System)

Ship Name : No1 IMC MARU

Term : 2017/02 - 2017/02

Detail data for EU-MRV

Voy. No	Departure		Arrival		Identifier for EU-MRV	Cargo Carried (MT)	Hours in Port	H.U.W		Distance H.U.W mile	M/E					D/G					Fuel Oil Consumpt			
	Port Name	Date & Time	To Port Name	Date & Time				Hr. Min	Hr. Min		MDO	LSMGO	HFO	LSFO	LNG	MDO	LSMGO	HFO	LSFO	LNG	MDO	LSMGO	HFO	LS
1701	SINGAPORE	2017/02/04 08:12	PASIR GUDANG	2017/02/04 14:48	EU port to EU port	2,130.680	1:42	8:36	70.0	0.00	0.00	3.31	0.22	0.00	1.06			0.01	0.00	0.80				
1701	PASIR GUDANG	2017/02/05 03:48			EU port to EU port	2,731.036	13:00	24:12	302.0	0.00	0.00	16.84	0.10	0.00	5.15			0.15	0.00	18.26				
1701			BINTULU	2017/02/07 18:06	EU port to other port (Outbound)	0.000	0:00	36:06	381.0	0.00	0.00	18.95	0.23	0.00	6.02			0.14	0.00	17.16				
1701	BINTULU	2017/02/08 15:42	SANDAKAN	2017/02/10 19:54	Other port to EU port (Inbound)	4,748.368	11:42	52:12	870.0	0.00	0.00	38.14	0.44	0.00	8.40			0.23	0.00	4.66				
1701	SANDAKAN	2017/02/12 00:36	LAHAD DATU	2017/02/12 18:54	EU port to EU port	8,748.328	20:36	18:18	222.0	0.00	0.00	9.73	0.19	0.00	3.50			0.17	0.00	5.34				
1701	LAHAD DATU	2017/02/13 07:30	eu port	2017/02/15 03:00	EU port to EU port	10,048.191	3:30	43:30	465.0	40.00	1.00	25.77	50.08	1.00	22.12			60.08	1.00	31.82				
1701	LAHAD DATU	2017/02/13 07:30	eu port	2017/02/15 03:00	EU port to EU port	10,048.191	3:30	43:30	465.0	40.00	1.00	25.77	50.08	1.00	22.12			60.08	1.00	31.82				

IMO DCS Summary

CNAXS-ABLOG (Abstract Log Control System)

Ship Name : APOLLO DREAM

Term : 2018/01 - 2018/12

Data summary for IMO DCS

Data summary

Detail data

Voy. No	Report	Current		Destination		Cargo Carried (T)	Hour
		Port Name	Date & Time	Port Name	Date & Time		
90	Commenced		2018/09/01 15:00			1,000.000	
90	Departure (MRV)		2018/09/01 23:05			1,000.000	

Fig.14-3-2 IMO DCS screen

IMO DCS Summary

CMAXS-ABLOG (Abstract Log Control System)

Ship Name : APOLLO DREAM

Term : 2018/01 - 2018/12

Data summary for IMO DCS

Voy. No	Report	Current		Destination		Cargo Carried (T)	Hours in Port Hr. Min	H.U.W Hr. Min	Distance H.U.W mile	M/E							
		Port Name	Date & Time	Port Name	Date & Time					MDO	MGO	LSFO	HSFO	LFO	MDO	MGO	L
90	Commenced		2018/09/01 15:00			1,000.000	0:00	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	Departure (MRV)		2018/09/01 23:05			1,000.000	0:05	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	Departure	aaa	2018/09/01 23:10	adasf		1,000.000	0:05	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	Noon		2018/09/02 03:00			1,000.000	0:00	3:55	10.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
90	Noon		2018/09/03 03:00			1,000.000	0:00	24:00	500.00	14.00	10.00	1.00	4.00	7.00	15.00	11.00	
90	Noon		2018/09/04 03:00			1,000.000	0:00	24:00	500.00	4.00	8.00	17.00	14.00	11.00	3.00	7.00	
90	Noon		2018/09/05 03:00			1,000.000	0:00	24:00	500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
90	Arrival	eu	2018/09/05 23:00			1,000.000	0:00	20:00	300.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
90	Arrival (MRV)	eu	2018/09/08 00:00			1,000.000	0:00	0:00	0.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
90	Completed	eu	2018/09/08 01:00			500.000	1:00	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total							-	1:10	95:55	1,810.00	21.10	21.10	22.10	21.10	21.10	21.10	21.10

④

Data summary

To Excel

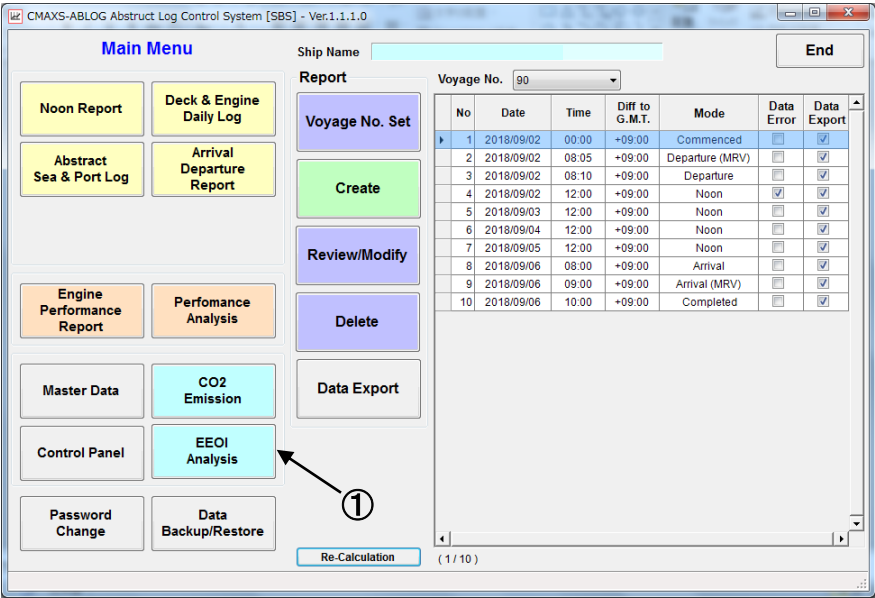
Close

15. Reference of EEOI Analysis

In this function, Reference of result of EEOI analysis.

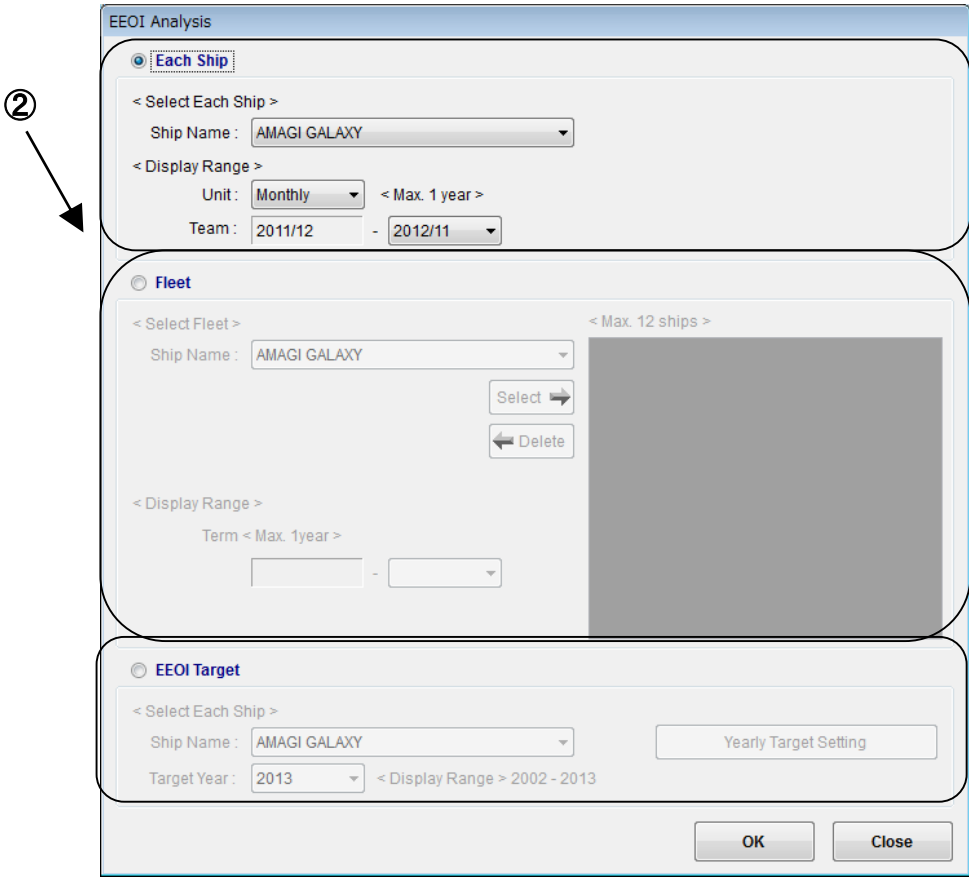
1.On the Fig.15-1 [Main screen], select [EEOI Analysis].
Fig.1-2 [EEOI Analysis screen] is displayed.

Fig.15-1 Main Menu screen



- 2.Select the following items, then select OK.
- ①Each Ship : EEOI Analysis for each ship can be made.
 - ②Fleet : EEOI Analysis for fleet can be made.
 - ③EEOI Target : Target EEOI value for each ship can be set and evaluated by comparing with actual value.

Fig.15-2 EU-MRV screen



CMAXS
Abstract Log Control System
(Shipboard System)
Operation Manual

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