



ECDIS

Pilot 'Check-Off Cards'

Various Manufacturers

v 1.86 (10 January 2017)

Download Latest Version: eMaritimeGroup.com/CheckOff

Access Code: ECDISCOC17



WARNING: This is an aid for using ECDIS only. ECDIS Ltd does not accept any liability when using this document.



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These Cards are designed for those who may not be familiar with ECDIS systems, but may be required to engage with ECDIS at short notice.

They are designed to be a memory-aid, and not a replacement for proper procedures when utilising ECDIS.



Pilot ECDIS Settings Check-off

1.		Ensure that chart in use is the most appropriate
		If in RCDS mode, ensure paper back-up correct (if required)
		Consider Radar Image Overlay (if available)
		Ensure all relevant T&P information is displayed
		Ensure the chart is displayed at the compilation scale (1:1)
		Confirm system units in use
2.		Confirm ECDIS/sensors are displaying correct ship's position
3.		Verify Safety Depth and Safety Contour settings
4.		Ensure correct Display setting for environment
		Appropriate level of data for Nav execution
		Appropriate palette – Day/Dusk/Night presentation
5.		Ensure correct Route is loaded in Route Monitoring
		Ensure Route has been checked
		Ensure secondary Route is loaded (if required)
		Ensure Route Data is selected for display
		Ensure Route Data is providing relevant waypoint data
6.		Ensure correct Chart setup
		Chart Motion (if True Motion consider settings for redraw)
		Chart Orientation (e.g. North Up)
		Chart Auto Load ON
		Chart Auto Scale ON
		Chart Priority ENC
		Ensure appropriate ship symbol positioning
7.		Ensure Safety Frame is set for prevailing conditions (if required)
8.		Consider activating Predictor (if available)
9.		Determine whether Docking Mode is available when berthing
10.		Determine if True or Relative Vectors are being displayed
		Configure Vectors as appropriate
11.		Ensure audible Alarm is turned on
12.		Ensure AIS and ARPA contacts are displayed
13.		Configure the Secondary ECDIS terminal as appropriate



Key JRC JAN-701/901B ECDIS Menu Functions

1.	Selection of additional Side Panels (Docking, Voyage, Wind). Main>Multi Window
2.	Configuration of Ship's Length, Beam, Maximum Speed and ROT. Serviceman>Ship's Parameter...
3.	View list of installed Charts. Chart>Chart Portfolio>[S-57]/[ARCS]
4.	View the latest update number installed. Chart Portfolio>[S-57]/[ARCS] System Chart>Last Update
5.	Save Chart Settings. Chart>User Setting>Save Chart Setting...
6.	View information on charted objects and view additional text. Context Menu>S-57/C-MAP/ARCS Information>Left Click
7.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Chart>Setting...>S-57/C-MAP/ARCS>View Common>Depth Alarm
8.	Input a User Map object. User Map>User Map Editor>New
9.	Input a Manual Update. Chart>Manual Update>Start
10.	Turn the ship outline on. Ownship/Track>Setting...>Own Ship Symbol
11.	Configure the Danger Detection Area (Anti-grounding Cone). Ownship/Track>Setting...>Danger Detection
12.	Configure Velocity Vectors and Ship's Track. Ownship/Track>Setting...>Vector/Track
13.	Manually change WPT information of an Active Route. Manually select WPT in the Route Display Panel.
14.	View past Alarms and Warnings. Alarm List or Main>Logbook>Event Column
15.	Input a Visual or Radar fix. Main>LOP>Create LOP...



Own Ship INFO [CCRP1]			
HUG	(MAN)	180.0 °	
STW	(MAN)	10.0 kn	
COG	(DR)	180.0 °	
SOG	(DR)	10.0 kn	
LMT	2011-07-08 14:32:17+01:00		
POSN1	50°15.818' N		
DR	4°10.265' W		
WGS-84			
Vector	T	6 min	
Depth	(***)	***. m	
Association			
Filter	Ring	Sector	
NotRDY			
Route	GC Demo		
To WPT	001:		
DIST 2.8 NM		BRG 359.1 °	
CALC	Drift	Route	WPT
DEST	1	2.6 NM	
SPD	Actual	10.0 kn	
TTG	0:15:20		
ETA	07-08 14:47 LMT		
Chart INFO			
<input checked="" type="checkbox"/> MOB	Standard		
Port List	1:600,000		
Home	65.934 NM		
Zoom Out	Free		
Zoom In	North Up		
Zoom Area	000.0 °		
Tools			
EBL1	T	OFF	° D
VRM1	OFF NM		
EBL2	T	OFF	° D
VRM2	OFF NM		
SRB(Data)		Alarm	
Over scale.		List	
E	T	**** *°	
***** NM		***** *°	

CCRP & Picture Freeze

Ownship Data

Date and Time

Primary Position

Additional Data

Contact Display

Route Display

Route Data

Chart Information

Tools

Alarms & Warnings

Cursor Data



Key JRC JAN-7201/9201 ECDIS Menu Functions

1.	Configuration of Units Menu>View>Options>Unit
2.	Configuration of Ship's Length, Beam, Maximum Speed and ROT. Menu>Service>Installation>Ship's Parameters
3.	View list of installed Charts. Chart>Chart Portfolio>[S-57]/[ARCS]
4.	Sensors Selection/Status Menu>Maintenance>Sensor selection/Status
5.	Save Chart Settings. Menu>Settings>Preferences
6.	View information on charted objects and view additional text. Context Menu>Readout chat Information>Left Click
7.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Menu>View>Options>Chart Common>Page 2
8.	Input a User Map object. Left Toolbar>U.Map
9.	Input a Manual Update. Menu>Chart>Manual update
10.	Turn the ship outline on. Menu>View>Options>Own ship
11.	Configure the Danger Detection Area (Anti-grounding Cone). Menu>Alert>Vector/Sector
12.	Configure Velocity Vectors. Menu>View>Options>Own ship
13.	Configure Ship's Track. Menu>View>Options>Own Track
14.	View past Alarms and Warnings. Notification Area>List>Alert History
15.	Input a Visual or Radar fix. Menu>Tools>Manual Position Fix



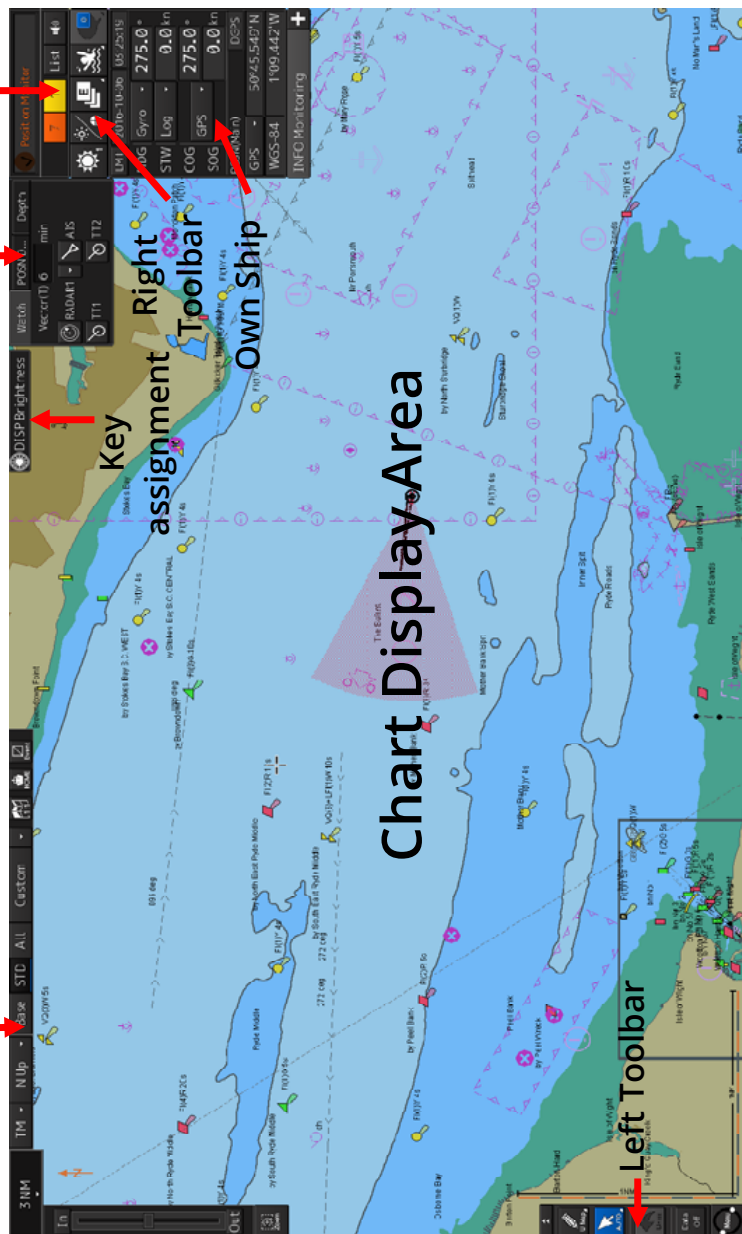


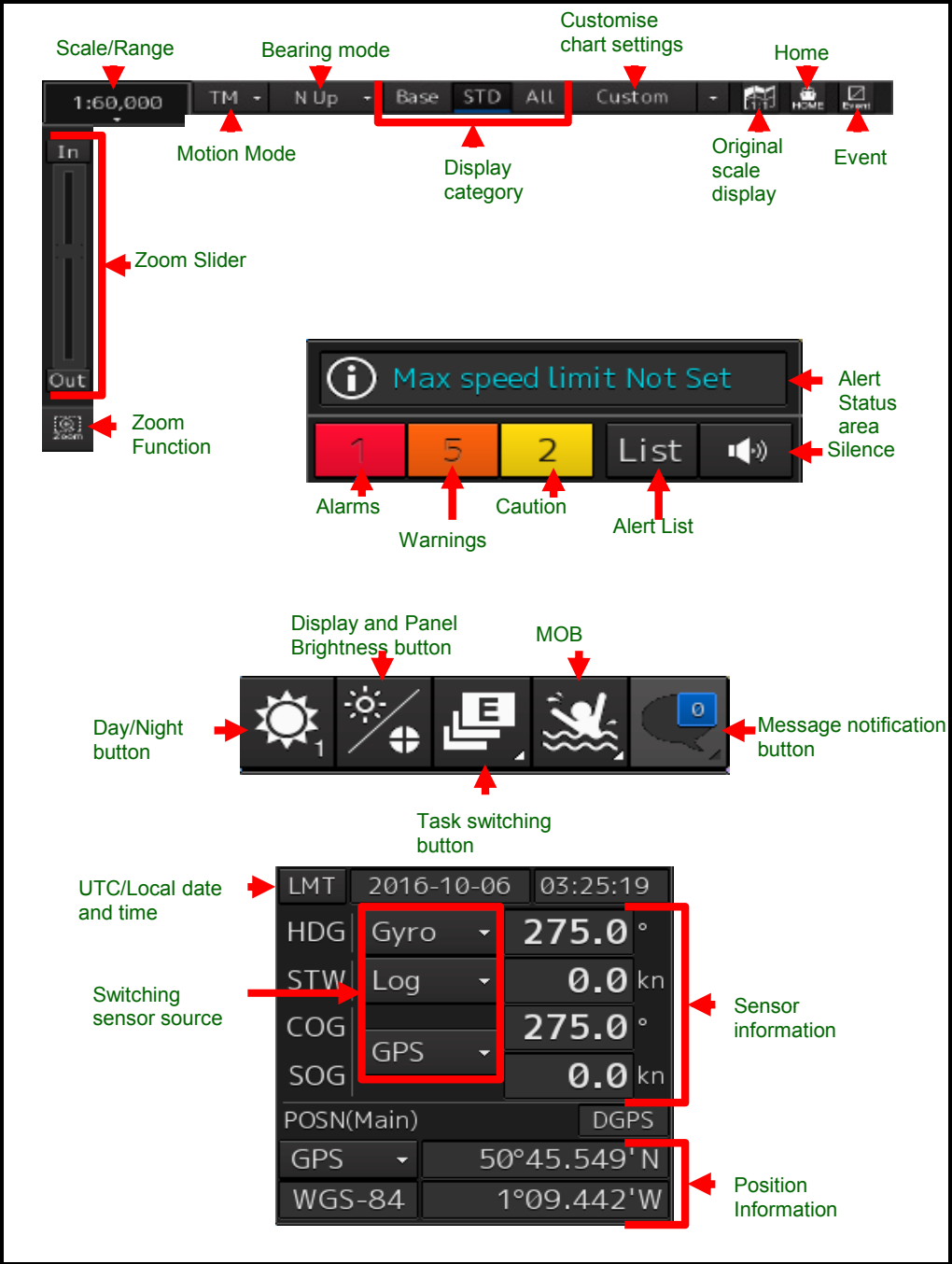
Chart Information
Area

Area

Sub
Information
Area

Notification
Area

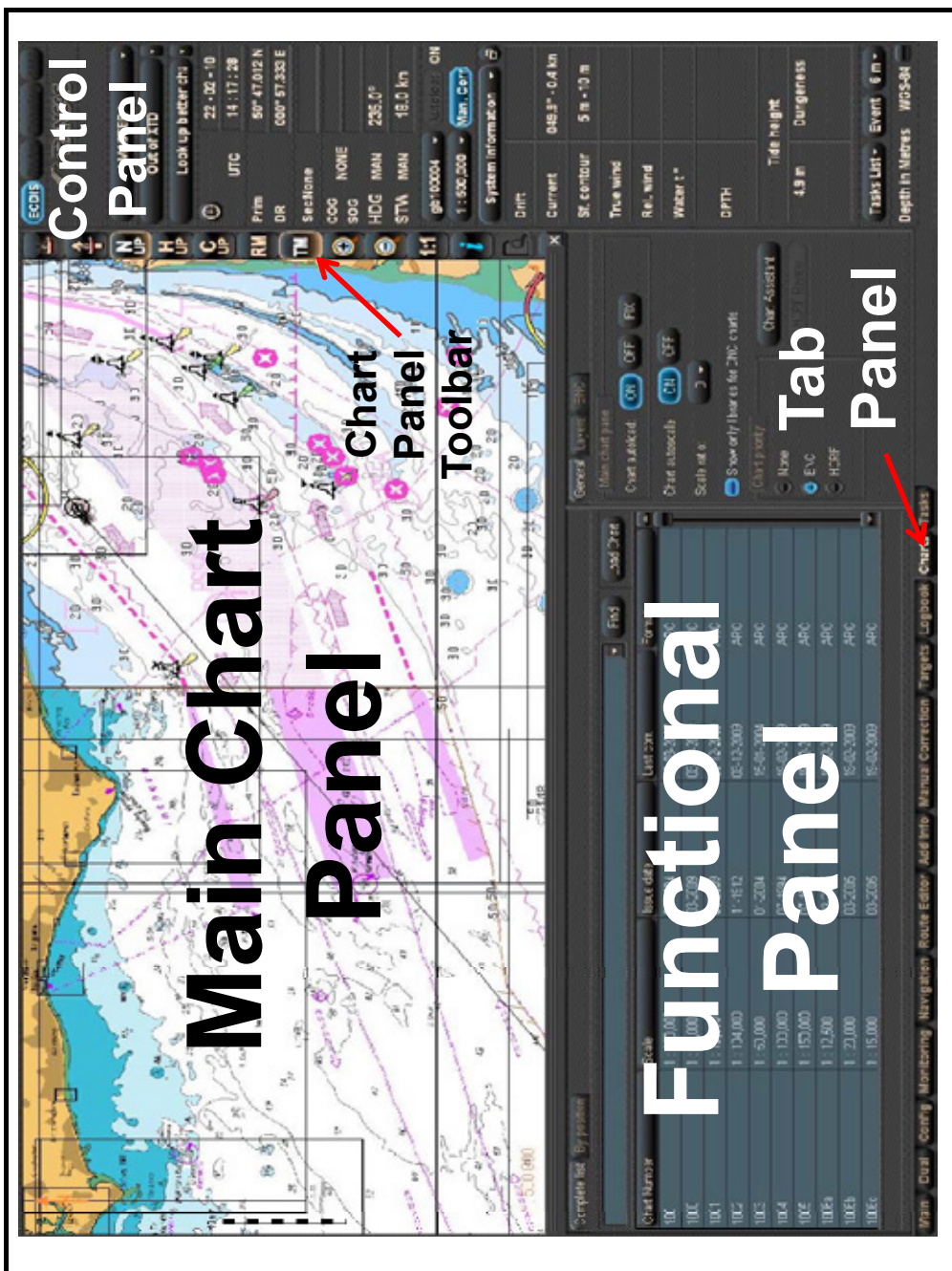




Key TRANSAS Navi-Sailor 4000 ECDIS Menu Functions

1.	Configuration of Ship's Length, Beam, Maximum Speed and ROT. System Configuration Utility>INS>Ship Settings/Speed Maneuvering
2.	View list of installed Charts. Tasks List>Charts>Complete List or Charts>Chart Assistant
3.	View the latest update number installed. Use Info function to interrogate chart or Chart Assistant
4.	View information on charted objects and view additional text. Info Button>Left Click
5.	Set the Safety Depth and Safety Contour. Tasks List>Monitoring>Safety Alarms>Safety Parameters
6.	Set the Shallow and Deep Contour. Tasks List>Charts>ENC
7.	Input a User Map object. Tasks List>Add Info
8.	Input a Manual Update. Tasks List>Manual Corrections
9.	Turn the ship outline on. Tasks List>Monitoring>Route Monitoring>Ship by Contour
10.	Configure the Safety Frame. Tasks List>Monitoring>Safety Alarms>Safety Frame
11.	Configure Velocity Vectors and Ship's Track. Tasks List>Monitoring>Route Monitoring>Ship/Past Track Operational Panel>Vector Time
12.	Configure Area Alarms. Tasks List>Monitoring>Safety Alarms>Area Alerts
13.	Manually change WPT information of an Active Route. Tasks List>Monitoring>Waypoints>Next Waypoint – Manual
14.	View past Alarms and Warnings. Alarms Panel and Tasks List>Logbook
15.	Input a Visual or Radar fix. Display Panel>Manually Fix Position





ECDIS

TRANSAS

* MASTER *

Out of XTD

Look up better chz

UTC

22 - 02 - 10

14 : 17 : 28

Prim

50° 47.012 N

DR

000° 57.333 E

Sec:None

COG

NONE

SOG

HDG

MAN

235.0°

STW

MAN

18.0 kn

gb100004

Autoload

ON

1 : 500,000

Man. Corr

System Information

Drift

Current

049.9° - 0.4 kn

Sf. contour

5 m - 10 m

True wind

Rel. wind

Water t °

DPTH

Tide height

4.9 m

Dungeness

Tasks List

Event

6 m

Depth in Metres

WGS-84

Applications

Sensors & Network

Alarms

Warnings

Time

Primary Position

Secondary Position

COG,SOG,HDG,STW

Charts Area

Display Panel

Operational Panel

Lower Data Group



Key FURUNO FEA-2107, 2107-BB, 2807 ECDIS Menu Functions

Selection of additional Side Panels (Conning, Docking, Chart Legend).

Move the cursor over Route display panel and right click.

Configuration of Ship's maximum speed, draught and ROT.

Menu>Initial Settings>Navigation Parameters>Ship and Route Param.

View Chart Catalogue (ARCSs or ENCs depends upon format selected).

Menu>Chart Menu>Chart Catalogue

View the latest update number installed.

Menu>Chart Menu>Chart Cell Status

Change and Save Chart Settings.

Menu>Chart Display>Save As

View information on charted objects and view additional text.

Mouse Functions>Info

Set the Safety Depth, Safety Contour, Shallow and Deep Contour.

Menu>Chart Display>Chart

Input a User Chart object.

Menu>User Chart>Plan>Create

Input a Manual Update.

Menu>Chart Menu>Manual Updates>Planning>New

Turn the ship outline on.

Menu>Symbol Display>General

Configure the Check Area (Anti-grounding Cone).

Menu>Initial Settings > Chart Area Alert Parameters>Check Area

Configure Velocity Vectors and Ship's Track.

Menu>Symbol Display>General/Tracking

Manually change WPT information of an Active Route.

In the Monitor Route dialogue box in the Monitor page.

View past Alarms and Warnings.

Menu>Record>Alert Log

Input a Visual or Radar fix.

Menu>Sensors>LOP



Information Area

NorthUp RM ECDIS only 1:20 000 ChartOnly Other Radar

1 2 3 4 5 6

1 - Presentation Mode
2 - ECDIS Mode
3 - Display Scale
4 - Chart only switch
5 - Display Setting
6 - Radar

HDG 128.0°
SPD 18.0 kn
SB 0.0 kn
COG 128.0°
SOG 18.0 kn
56°04.414'N
012°36.304'E
WGS 84
DGPS

Route: **selected**
Plan Speed kn
Plan °
Route °
Ch LIM m
Off track m

To WPT NIM
Dist WPT NIM
Time WPT NIM
Turn Rate NIM
Turn rate °/min
Next WPT
UserChart Notes
14 Apr 2011 14:31
Local (UTC +02:00)

TT DISP ON
T VECT 30 s
Predicted OFF
PASTP 10 min
CPA 1.0 NM 12 min
CPA AUTO act. ALL
Lost TGT alarm ALL
SINGLE 06:07 06:07

Select Select


Time: Local (UTC +2:00) Datum: WGS 84

File name: voyage.log
Enable changes

LOG FILES - VOYAGE LOG

Date	Time	Type	LAT	LCN	SOG/kn	COG°	HDG°	CORR°	WIND°	WIND	DistTMM	Depthm	Description
14 Apr 2011	14:30:41	PasD	56°04.406'N	012°36.273'E	18.0	128.0	128.0	NW.D	18.0	1800	387.6	NALD	LOPEP/1 56°0...
14 Apr 2011	14:26:30	Auto	56°04.414'N	012°36.304'E	18.0	128.0	128.0	NW.D	NW.D	NW.D	306.4	NALD	
14 Apr 2011	14:13:11	Auto	56°04.414'N	012°36.304'E	18.0	128.0	128.0	NW.D	NW.D	NW.D	306.8	NALD	
14 Apr 2011	14:07:30	Auto	56°04.414'N	012°36.304'E	18.0	128.0	128.0	NW.D	NW.D	NW.D	302.7	NALD	
14 Apr 2011	13:49:00	Auto	56°04.414'N	012°36.304'E	18.0	128.0	128.0	NW.D	NW.D	NW.D	302.6	NALD	
14 Apr 2011	13:38:40	Auto	56°04.414'N	012°36.304'E	18.0	128.0	128.0	NW.D	NW.D	NW.D	300.3	NALD	



	
HDG	128.0 °
SPD (WT)	18.0 kn
SB (BT)	0.0 kn
COG (BT)	128.0 °
SOG (BT)	18.0 kn
56°04.414'N	
012°36.304'E	
WGS 84 DGPS	
Route: not selected	
Plan Speed	kn
Plan	°
Route	°
Ch LIM	m
Off track	m
To WPT	
Dist WOP	NM
Time	
Turn RAD	NM
Turn rate	°/min
Next WPT	
Next	°
UserChart	Notes
14 Apr 2011 14:31	
Local (UTC +02:00)	
+ NM °	
TT	DISP ON < AIS OFF
T VECT(G)	30 s
Predictor	OFF
PASTPOSNT	10 min
CPA	1.0 NM 12 min
CPA AUTO act.	ALL
Lost TGT alarm	ALL
SINGLE 06.07 06.07	
Select	Sel ect

System Status

Ship's Position, Course & Speed

Route Information

Route Monitoring Information

Select User Chart & Notes
Time & Date

Latitude & Longitude of Cursor

Target Information

Alarms & Warnings

Mouse Function Area



Key FURUNO FMD 3200, 3200BB, 3300 ECDIS Menu Functions

Viewing chart Catalogue

CHARTS>Manage Charts

Configuration of Ship's maximum speed, draught and ROT.

Menu>Ship & Route Parameters>Ship & Route.

Settings Chart Priority

Status Bar>Vector/Raster Chart

View the latest update number installed.

Right click>Chart Legend

Radar Image Overlay

Overlay/Nav Tools>Echo

View information on charted objects and view additional text.

Right click>Object Info

Set the Safety Depth, Safety Contour, Shallow and Deep Contour.

Menu>Chart Alert

Input a User Chart object.

PLAN>Planing>User Chart

Input a Manual Update.

NAVI>Manual update

Turn the ship outline on.

Menu>Symbol Display>General

Configure the Check Area (Anti-grounding Cone).

Overlay/Nav Tools>Check Area

Configure Velocity Vectors

Menu>Symbol Display>General

Configure Ship's Track.

Menu>Symbol Display>Tracking

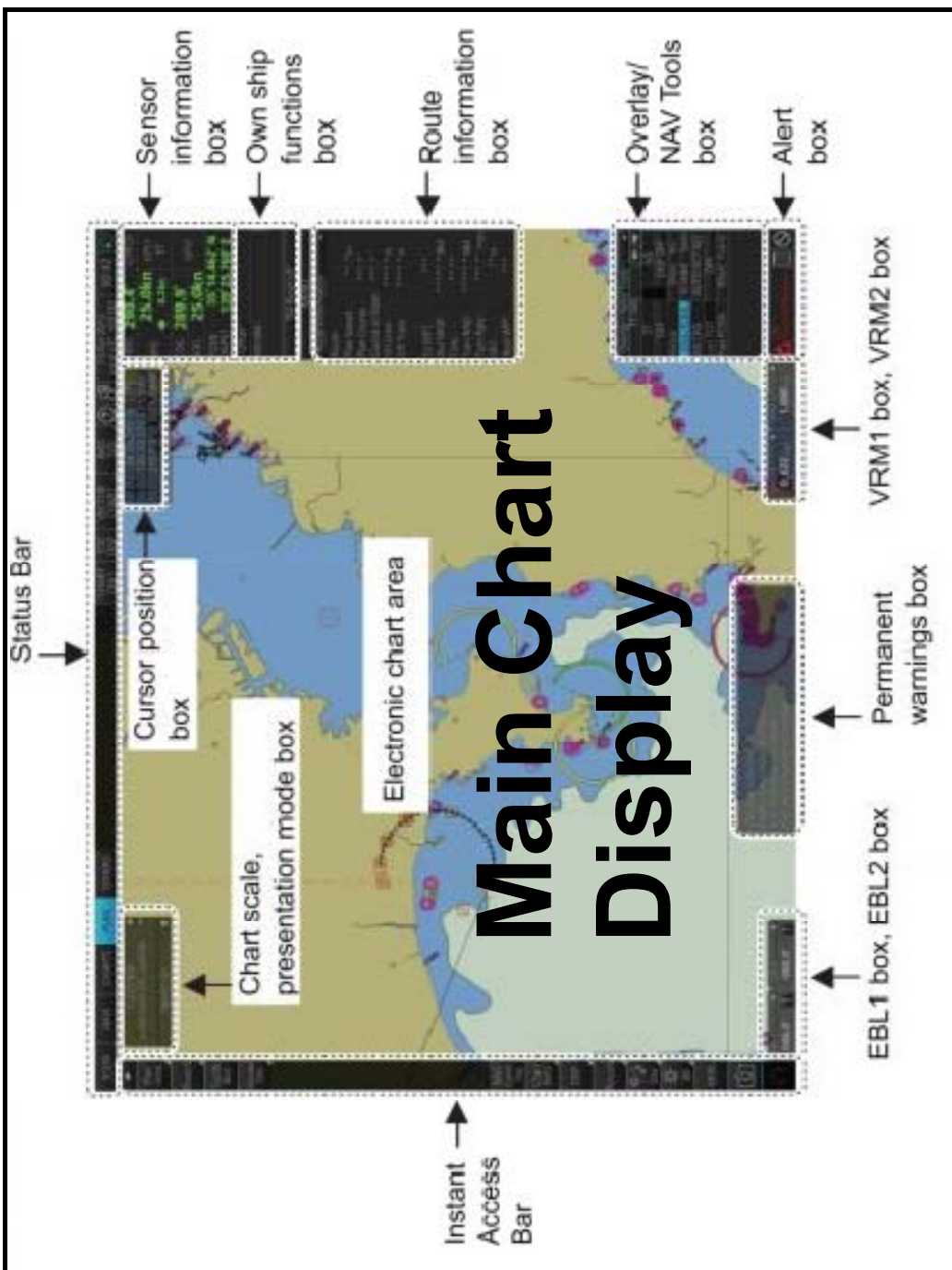
View past Alarms and Warnings.

Alert Box>Alert List

Input a Visual or Radar fix.

Record>Event log>POSN Event





HDG	125.9°	GYRO1	
SPD	0.0kn 0.0kn	LOG1 BT	← Sensor Information
COG	125.9°	LOG1	
SOG	0.0kn		
POSN	51°57.633' N		
DGPS1	001°17.654' E		
Offset			
WGS84			
TM Reset off			
MENU			
Route Information			
Route :			
Plan Speed : * * . * kn			
Plan Course : * * * . * °			
Course to Steer : * * * . * °			
CH Limit : * * * * . * m			
Off Track : * * * * . * m			
To WPT : * * *			
DIST to WOP : * * * * . * NM			
Time to Go : * * h * * m * * s			
Turn RAD : * * * * . * NM			
ROT : * * * . * ° / min			
Next WPT : * * *			
Next Course : * * * . * °			
Overlay / NAV Tools			
TT / AIS			
TT	AIS		
ON	DISP ALL		
Vector	1min True-G		
CPA/TCPA	6.0NM 4min		
AIS CPA	AUTO OFF		
Lost TGT	ALL		
Past POSN	6min True-G		
[X] SYNC. ANT			
TT Source: []			
027 Main Monitor CO.. [] []			

← Own Ship Functions

← Menu

← Route Information

← Overlay/Nav Tools

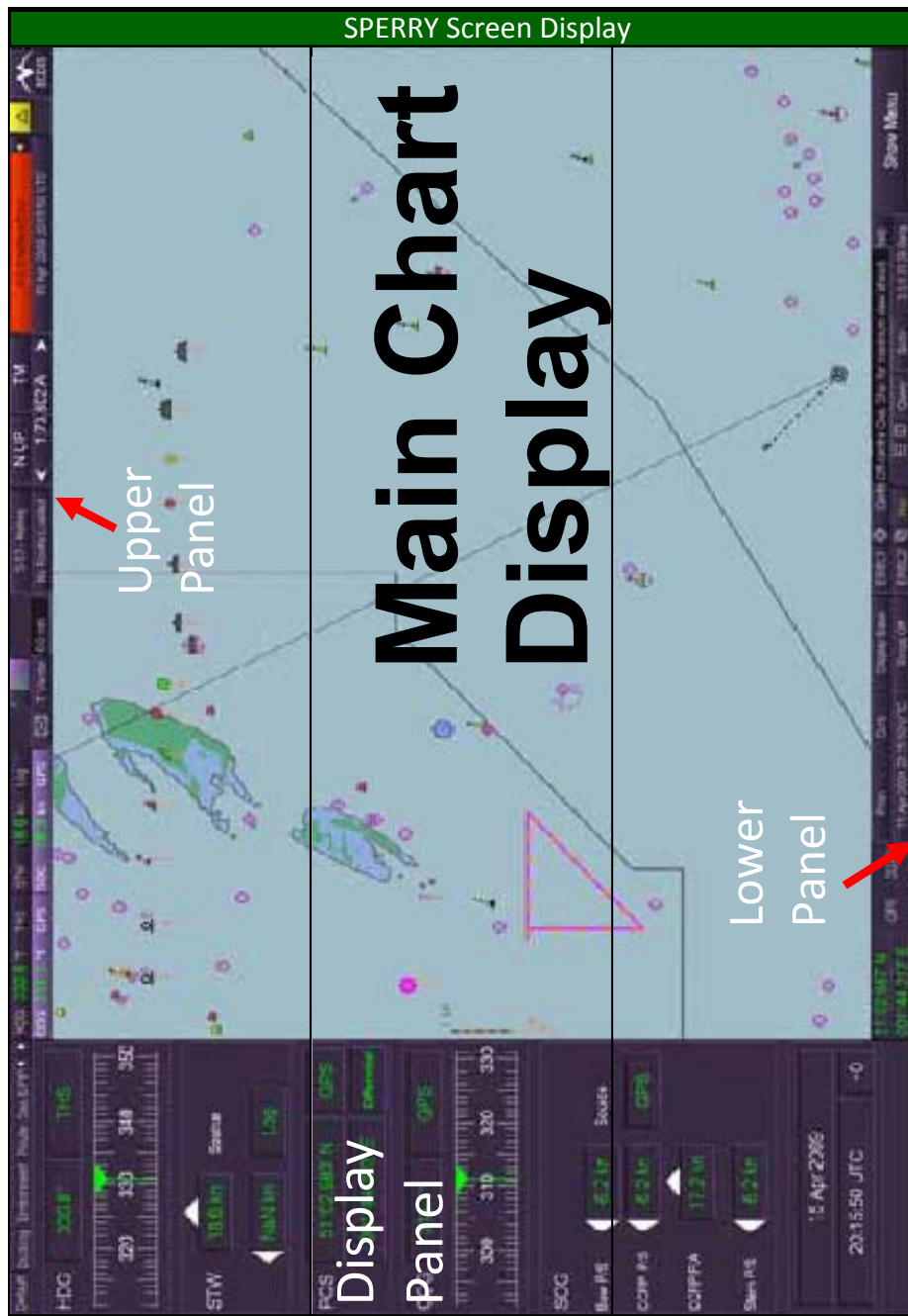
← Alert Box



Sperry Vision Master FT ECDIS Menu Functions

1.	Viewing Ship's Length, Beam, Maximum Speed and ROT. Show Menu>System>Commissioning>Characteristics
2.	View list of installed Charts. Show Menu>Charts>Chart Tools>Show Index
3.	View the latest update number installed. Show Menu>Charts>Chart Legend>Updates
4.	Change Chart Settings. Upper Toolbar>Presentation Mode
5.	View information on charted objects and view additional text. Context Menu>Query Chart
6.	Set the Safety Depth, Safety Height, Shallow and Deep Contour. Show Menu>Charts>Chart Depths/Heights
7.	Show/Hide Manual update layers Show Menu>Charts>Manual Chart Update>Layers
8.	Input a Manual Update. Show Menu>Charts>Manual Chart Update>Edit
9.	Turn the Predictor on. Show Menu>Nav Tools>Display Settings
10.	Configure the Look-Ahead Show Menu>Charts>Chart Dangers
11.	Configure Ship's Track. Show Menu>Nav Tools>Ownship History
12.	Configure Velocity Vectors. Show Menu>Nav Tools> Display Settings
13.	View System Logs Show Menu>System>Diagnostics>Data Log> View Data Log
14.	Input a Visual or Radar fix. Show Menu>Nav Tools>Line of Position
15.	Input of Temporary Route Show Menu>Route>Temp Route





SPERRY Screen Display

Upper toolbar



- | | |
|--------------------------------|--------------------------|
| 1: Sensoring books | 11: Change range/scale |
| 2: AIS Messages | 12: Warnings |
| 3: Target display menu | 13: Operator indications |
| 4: AIS display menu | 14: Turn buzzer on/off |
| 5: True relative Vector | 15: Dangers |
| 6: Length of displayed vectors | 16: Man overboard |
| 7: ENC | 17: Change watch mode |
| 8: Select/edit route | |
| 9: North up/ course up | |
| 10: True motion indicator | |

Lower toolbar



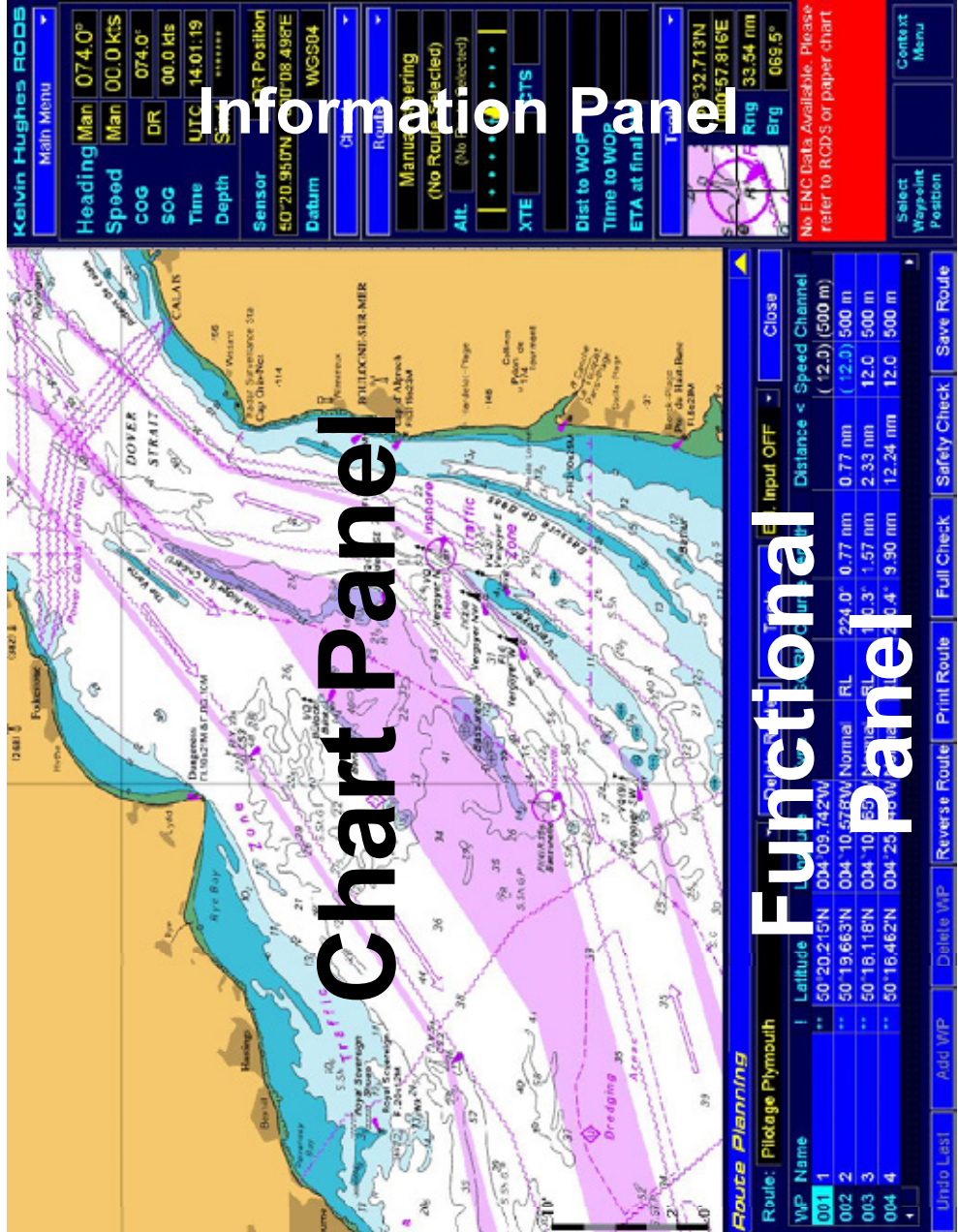
- | | | |
|-----------------------------|-------------------------------|--------------------|
| 1: Current Ship position | 11: Hide Menu | 21: Version Number |
| 2: Selected position sensor | 12: Maximum chart view | 22: Help Menu |
| 3: Dead reckoning | 13: Centre own ship | 23: Show Menu |
| 4: Position status menu | 14: Show single chart | |
| 5: Cursor status menu | 15: Secondary display button | |
| 6: Time management menu | 16: Standard chart display | |
| 7: Basic Display | 17: Chart query display | |
| 8: Range rings on/off | 18: Apply/edit user profiles | |
| 9: ERBL Display | 19: Goto menu | |
| 10: Brilliance menu | 20: Conning information pages | |



Key KELVIN HUGHES Manta Digital ECDIS Menu Functions

1.	Configuration of Ship's Length, Beam, Maximum Speed and ROT. Desktop>ECDIS Setup
2.	View list of installed Charts. Charts>Install >Vector or ARCS
3.	View the latest update number installed. Left click on the Chart Display>Cell Information
4.	Change Chart Settings. Charts>Vector Chart Settings
5.	View information on charted objects and view additional text. Left click on the Chart Display>Features
6.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Main Menu>Safety Settings...>Depth
7.	Input a User Map object. Tools>Map Editing...
8.	Input a Manual Update. Charts>Update>Manual ENC
9.	Turn the Predictor on. Tools>User Preferences...>Vessel Prediction
10.	Configure the Guardzone (Anti-grounding Cone). Main Menu>Safety Settings...>Guardzone Context Menu>Overlays>Guardzone
11.	Configure Ship's Track. Main Menu>Track Settings...
12.	Configure Velocity Vectors. Main Menu>Safety Settings>Settings
13.	View past Alarms and Warnings. Information Panel>Alarms
14.	Input a Visual or Radar fix. Tools>Position Fixing...
15.	Turn on Overlays (Route, Predictor, Guardzone, Primary Track etc.) Context Menu>Overlays





The screenshot displays the Kelvin Hughes ECDIS Main Menu interface. The interface is organized into several sections, each with specific data and controls. Red arrows point from descriptive labels to the corresponding UI elements.

Main Menu (indicated by a red arrow pointing to the top menu bar):

- Display Identifier** (indicated by a red arrow pointing to the top right): Kelvin Hughes ECDIS
- Main Menu** (indicated by a red arrow pointing to the top left): Main Menu

Ownship Data (indicated by a red arrow pointing to the ownship data section):

- Heading: T 062.5°
- Speed: W 22.0 kts
- COG: DR 062.5°
- SOG: 22.0 kts
- Time: +01H 17:11:29
- Depth: Sim1 22.3 m

Position Data (indicated by a red arrow pointing to the position data section):

- Sensor: D Simulator 1
- Position: 55°33.433'N 009°47.802'E
- Datum: WGS84

Chart Menu (indicated by a red arrow pointing to the chart menu):

- Charts

Routes Menu (indicated by a red arrow pointing to the routes menu):

- Routes

Selected Route (indicated by a red arrow pointing to the selected route):

- TRACK CONTROL
- Saltmere to Bonville
- Alt. (No Route Selected)

Cross Track Error (indicated by a red arrow pointing to the cross track error):

- XTE: 55 m
- CTS: 064.0°

Distance to Wheel Over (indicated by a red arrow pointing to the distance to wheel over):

- WP7 : Cartwheel Point
- Dist to WOP: 1.64 nm

ETA at Final Waypoint (indicated by a red arrow pointing to the ETA at final waypoint):

- Time to WOP: 00:04:29
- ETA at final WP: 17:24 03/01

Tools Menu (indicated by a red arrow pointing to the tools menu):

- Tools

Cursor Position Data (indicated by a red arrow pointing to the cursor position data):

- Position: 55°33.473'N 009°45.164'E
- Rng: 1.49 nm
- Brg: 271.6°

Alarm Messages (indicated by a red arrow pointing to the alarm messages):

- Track Control Stopped

Pushbutton Function Indications (indicated by a red arrow pointing to the pushbutton function indications):

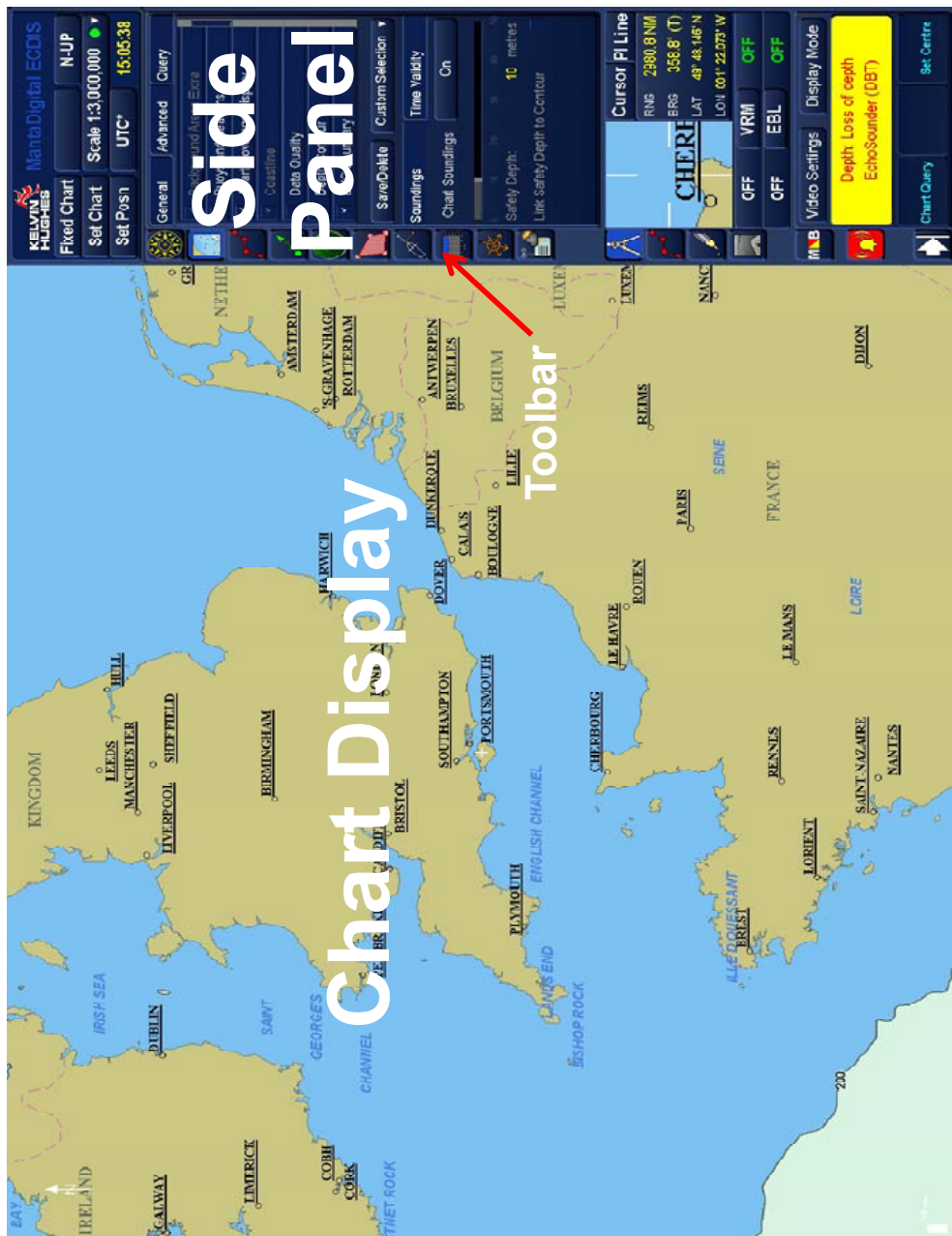
- Select/Query Feature
- Context Menu



Key KELVIN HUGHES New Manta Digital ECDIS Menu Functions

1.	Configuration of Ship's Length, Beam, Maximum Speed and ROT. Standby Screen>Ownship Tab
2.	View list of installed Charts. Chart Maintenance>Chart View or Dataview Tab>(Filters)
3.	View the latest update number installed. Chart Maintenance>Check Chart Update Status
4.	Change Chart Settings. ECDIS>Chart Settings Icon>Advanced Tab
5.	View information on charted objects and view additional text. ECDIS>Chart Settings Icon>Query Tab (left click)
6.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. ECDIS>Chart Settings Icon>General + Advanced Tabs
7.	Input a User Map object. ECDIS>User Map Icon>Edit Selected Map>Enter Object
8.	Input a Manual Update. Chart Maintenance>View Updates>Insert New Feature
9.	Turn the Predictor on. ECDIS>Ownship Icon>Ownship Tab
10.	Configure the Lookahead (Anti-grounding Cone). ECDIS>Ownship Icon>Lookahead Tab
11.	Configure Ship's Track. ECDIS>Ownship Icon>Past Track Tab
12.	Configure Velocity Vectors. ECDIS>Ownship Icon>Ownship Tab
13.	View past Alarms and Warnings. ECDIS>Alarm (right click)
14.	Input a Visual or Radar fix. ECDIS>Position Fixing Icon>LOP Tab>Fix Tab
15.	Turn on Radar Image Overlay. ECDIS>Radar Control Icon>Radar On





Fixed Chart N-UP
 Set Chart Scale 1:3,000,000
 Set Posn 15:05:38

General Advanced Query

Background Areas Extra
 Buys and Beacons
 Chart Coverage Display
 Coastline
 Data Quality
 Depth Contour
 ENC Boundary

Save/Delete Custom Selection

Soundings Time Validity
 Chart Soundings On

Safety Depth: 10 metres
 Link Safety Depth to Contour

Cursor Pl Line
 RNG 2000.8 NM
 BRG 358.8° (T)
 LAT 49° 40.146' N
 LON 001° 22.073' W

OFF VRM OFF
 OFF EBL OFF

Video Settings Display Mode

Depth: Loss of depth
 EchoSounder (DBT)

Chart Query Set Centre

Motion & Orientation
 Scale
 Time & Date

Best Scale or Fixed Scale Chart

General/Advanced & Query Pages

Cursor Information

VRM/EBL

Video Settings & Display Mode

Alarm List

On-screen Cursor Buttons

Nav Data

Chart Settings

Extended Route Data

Target Data

Radar Control

User Maps

Ownship Settings

Docking Display

Position Fixing

Navtex

Nav Tools

Route Data

Mariner's Notes/Events

CCTV Control

Man Overboard

Alarms

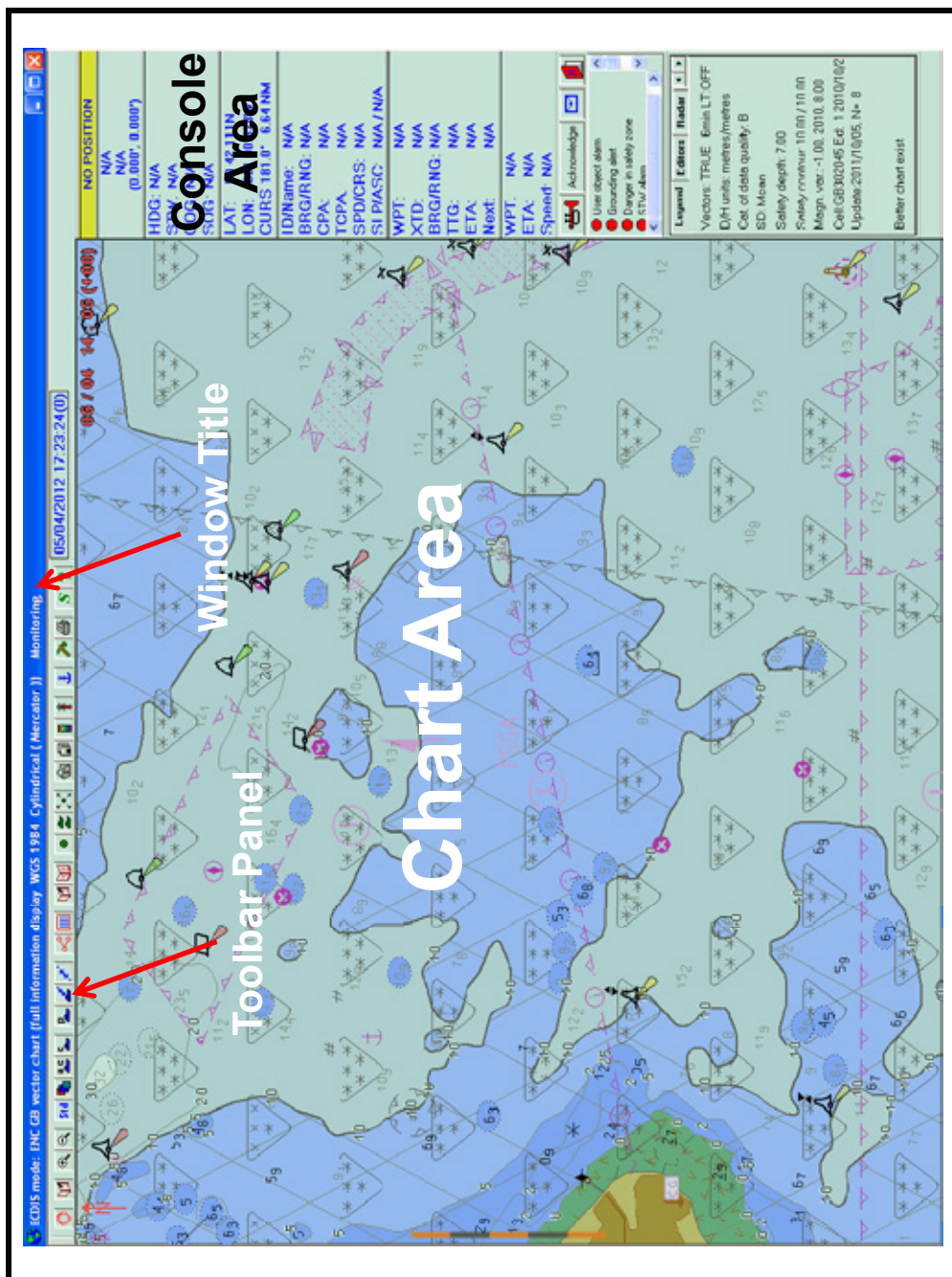
Show/Hide Side Panel



Key MARIS 900 ECDIS Menu Functions

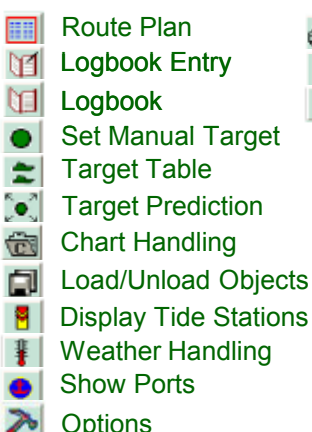
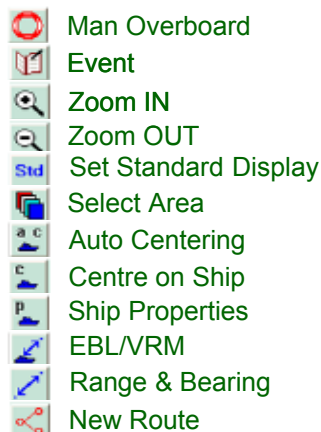
1.	Selection of additional Side Panels. Toolbar>Options>Console>Console Configuration>Custom
2.	Configuration of Ship's Parameters (Length, Breadth, Draught etc). Ship Properties>General
3.	View Installed Charts (All formats). Chart Handling>ENC, C-Map or ARCS
4.	View the latest update number installed. Chart Handling or Chart Properties
5.	View ENC Chart Updates. Chart Handling>Display Updates
6.	View information on charted objects and view additional text. Context Menu>Chart Priorities
7.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Context Menu>Chart Settings>Technical>Depths
8.	Input a User Chart object. Object Editor>Navigation Editor or User Data Editor
9.	Input a Manual Update. Context Menu>Manual Update
10.	Turn the ship outline on. Ship Properties>Display>Scaled Icon
11.	Configure the Check Safety Zone (Anti-grounding Cone). Ship Properties>Guard Zone>Check Safety Zone
12.	Configure Velocity Vectors. Ship Properties>Alarms>Display
13.	Manually change the active WPT. Right click on a WPT and select 'Activate'.
14.	View past Alarms and Warnings. In the Logbook (Logbook icon) but only if recording is ON.
15.	Input a Visual or Radar fix. Object Editor>Navigation Editor>LOP







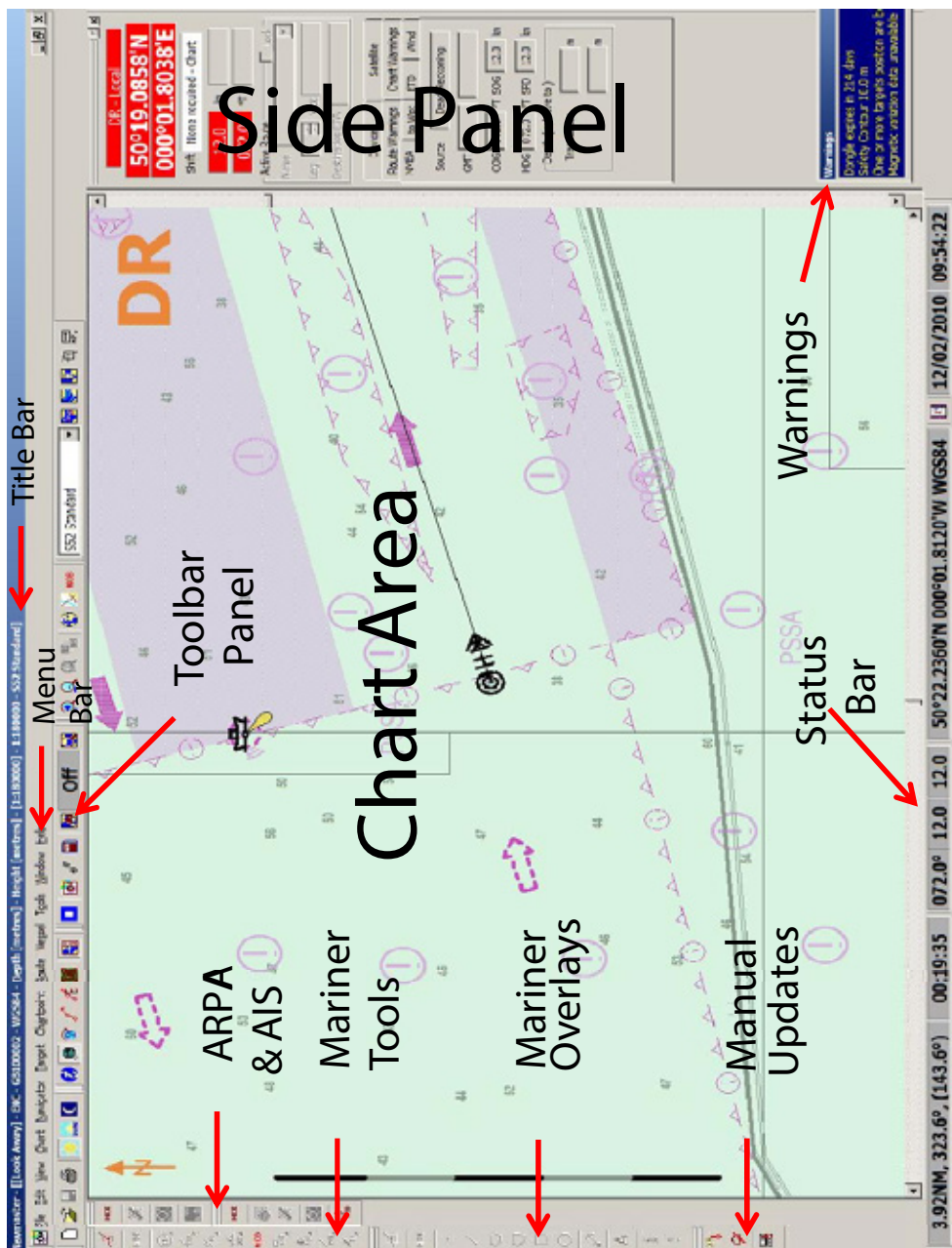
* The Console Area can be customised by the user and therefore panels may differ from that shown above.



Key PC MARITIME Navmaster ECDIS Menu Functions

1.	Configuration of Ship's Parameters (Length, Breadth etc). Setup Mode>Vessel Menu>Setup>General Tab
2.	View Installed Charts (Official). Chart Menu>Management>ENC or ARCS>Charts
3.	View the latest update number installed. Chart Menu>Management>ENC or ARCS>Chart Updates
4.	View ARCS Chart Updates. Chart>Options>ARCS>Limit Lines>Chart Updates
5.	View information on charted objects and view additional text. Display Toolbar>Chart Information Icon>Left click on chart
6.	Configure Chart Parameters Vector Chart Toolbar>Presentation Parameters Icon
7.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Vector Chart Toolbar>Safety Contours Icon
8.	Input a User Chart object. Mariner Overlays Toolbar>Select appropriate object
9.	Input a Manual Update. Manual Updates Toolbar>Add Manual Update
10.	Turn the ship outline on. Options>Vessel Options>Overlays>Vessel Shape>Automatic
11.	Configure the Check Safety Zone (Anti-grounding Cone). Options>Vessel Options>Warnings>Display Guard Zones
12.	Configure Velocity Vectors. Options>Vessel Options>Overlays>Speed and Direction Vector
13.	Manually change the active WPT. Positioning Monitoring>to Wpt (route must be unlocked)
14.	View past Alarms and Warnings. View>System Messages>Select relevant category
15.	Input a Visual or Radar fix. Mariner Tools>Lines Of Position or Manual Position Fix







- ← Primary Position Source
- ← Primary Position
- ← Applied Datum Shift
- ← Course & Speed
- ← Active Route Information
- ← Position Monitoring Panel:
- Devices
- Satellite
- Route Warnings
- Chart Warnings
- NMEA
- to WPT
- ETD
- Wind

Standard Toolbar



New Open Save Print Day Dusk Night

Display Toolbar



Voyage Toolbar



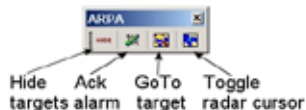
Chart Toolbar



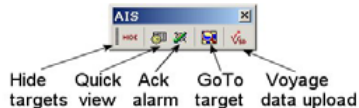
Vector Chart Toolbar



ARPA Toolbar



AIS Toolbar



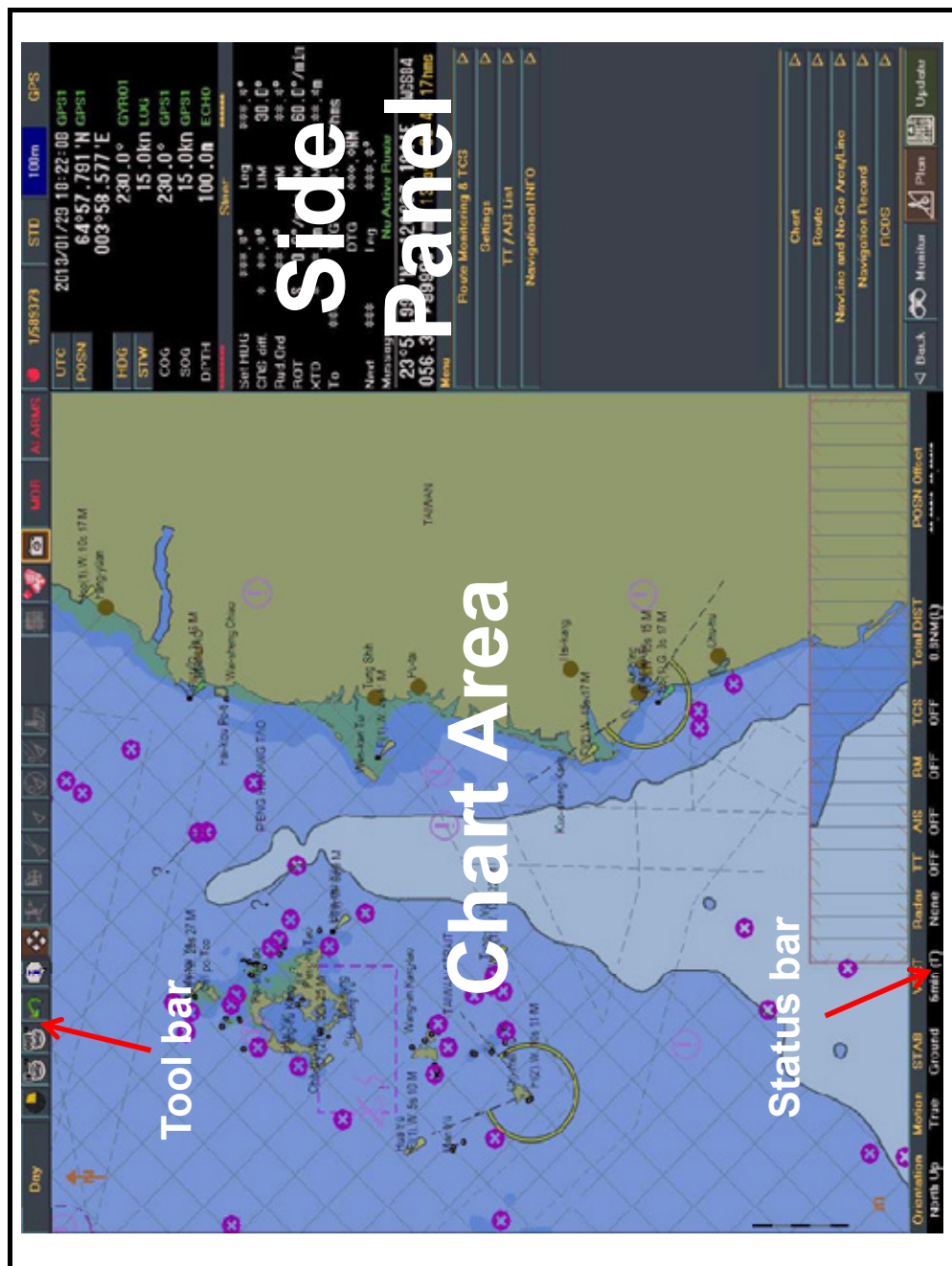
Radar Overlay Toolbar



Key TOKYO KEIKI ECDIS Menu Functions

1.	View list of installed Charts. Update>Chart Catalogue>Charts Tab>Chart List>Database
2.	View the latest update number installed. Update>Update Log>Select Database>Description/Updates
3.	Change Chart Settings. Monitor>Chart>Presentation/Customise Tab
4.	View information on charted objects and view additional text. Toolbar>Show information on chart objects>ENT on selected object
5.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Menu>Monitor Settings>Ownship Tab>Safety Depth
6.	Input a User Map object. Update>Manual Update>Add New
7.	Input a Manual Update. Update>Manual Update>Add New
8.	Turn the Predictor on. Monitor>Settings>Ownship Tab>Prediction Line (On/Off)
9.	Configure the Guard Frame (Anti-grounding Cone). Monitor>Settings>Guard Frame Tab
10.	Configure Ship's Track. Monitor>Settings>Past Position
11.	Configure Velocity Vectors. Monitor>Settings>Ownship [and] Display Tab
12.	View past Alarms and Warnings. Toolbar>Red Alarms Icon
13.	Input a Visual or Radar fix. Monitor>Navigational Info>Line of Position (On)
14.	Turn on Radar Image Overlay. Monitor>Settings>Radar Tab>No.1/2 System
15.	Take a Screenshot. Toolbar>Take a screenshot







System Data

Route Monitoring & Track Control Data

Cursor Information

Menu

Mode Buttons

Colour Palette

- Adjust Brightness
- Zoom IN
- Zoom OUT
- Previous Chart Display
- Chart Object Information
- Scroll Chart
- Create/Modify Waypoints
- Create/Modify Critical Points
- Activate AIS Targets
- Deactivate AIS Targets



Associate Targets



Dissociate Targets



Create/Modify no-go Line/Areas



Off-center Ownship



True Motion/Relative Motion



Take a Screenshot



Show Man Overboard Info



Show & Set Alarms



Scale Indication/Change Scale



Display Category



Safety Depth



Accuracy of Primary Posn Sensor



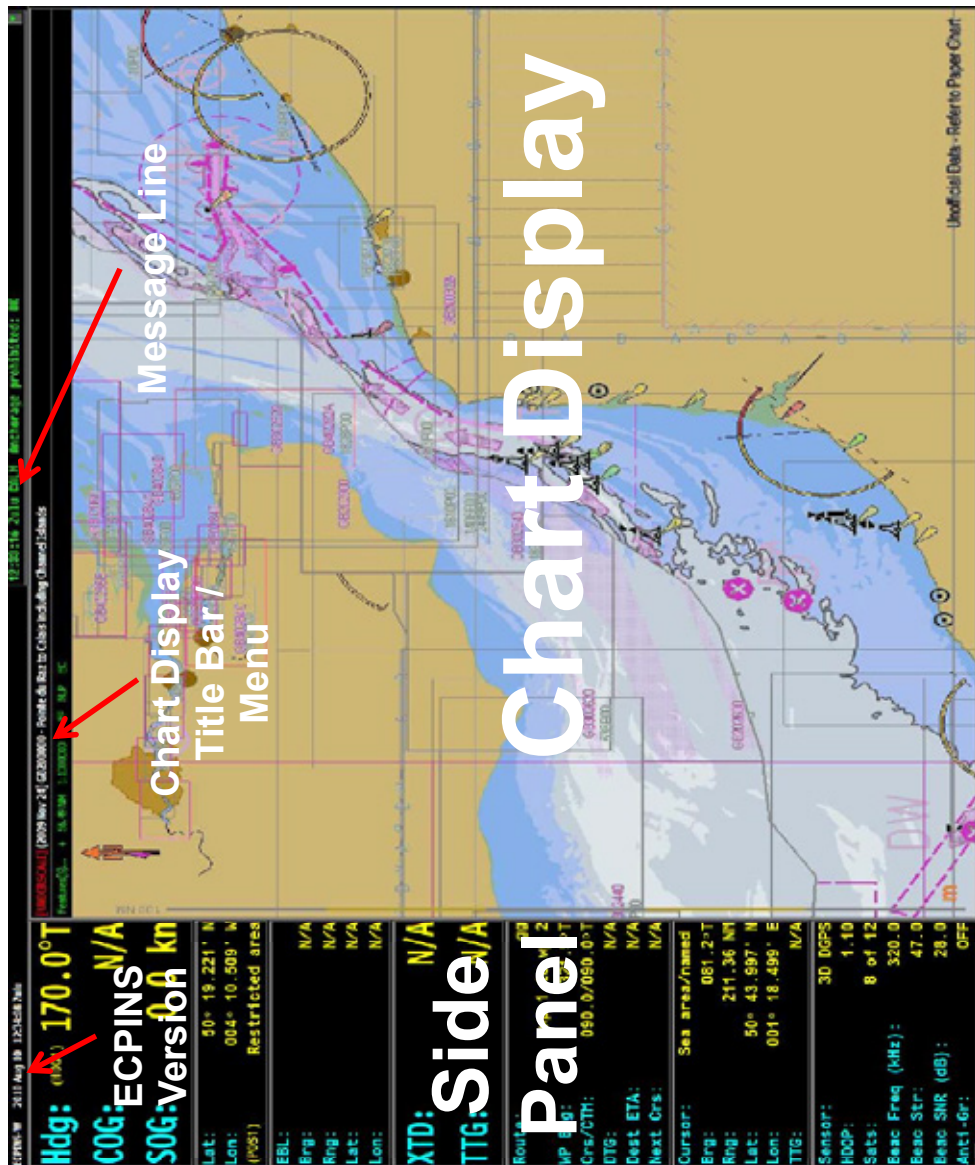
Key OSI ECPINS 5000 ECDIS Menu Functions

1.	View list of installed Charts. Main Menu>Chart Selection>Load Chart
2.	View the latest update number installed. Main Menu>Chart Selection>Display chart information Panel
3.	Change Chart Settings. Chart Display Title Bar/Menu>Feature Settings
4.	View information on charted objects and view additional text. Main Menu>Navigation Tools>Query chart Features...
5.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Main Menu>Setup>Vessel Setup>Set Safety Depth
6.	Input Event Markers Main Menu>Markers>Create Marker...
7.	Input a Manual Update. Main Menu>Chart Corrections>Manual Corrections
8.	Turn the Ghost Ship on. Main Menu>Navigation Tools>Ghost ship
9.	Configure the Guard Frame (Anti-grounding Cone). Main Menu>Setup>Vessel Setup>Set Anti-Grounding
10.	Configure Ship's Track. Main Menu>Setup>Display Setup>Vessel Track
11.	Configure Velocity Vectors. Main Menu>Setup>Display Setup>Velocity Vectors...
12.	View past Alarms and Warnings. Click Message Line
13.	Input a Visual or Radar fix. Main Menu>Navigation Tools>Fixing>Create Operator Fix
14.	Turn on Radar Image Overlay. Main Menu>Setup>Radar>Radar Image
15.	Take a Screenshot. Main Menu>Setup>Screen Captures>Create Screen Capture





Chart Display



Hdg: (HOG1) **342.0°T**
COG: **342.0°T**
SOG: **12.0 kn**
Lat: 48° 31.582' N
Lon: 123° 11.698' W
(Port) 200.0-300.0 m
EBL: Range & Bearing 1
Brg: 080.3°T
Rng: 1.31 NM
Lat: 48° 31.802' N
Lon: 123° 09.754' W
XTD: **S 26 m**
TTG: **00:16:07**
Route: Boundary Pass -
Beaumont Shoal to Haro
WP Brg: 341.3°T
Crs/CTM: 341.5/340.8°T
DTG: 3.23 NM
Dest ETA: Mar 25 23:39
Next Crs: 349.4°T
Cursor: 200.0-300.0 m
Brg: 019.7°T
Rng: 1.59 NM
Lat: 48° 33.082' N
Lon: 123° 10.932' W
TTG: 00:07:55
Sensor: 30 DGPS
HDOP: 1.10
Sats: 5 of 12
Beac Freq (kHz): 320.0
Beac Str: 47.0
Beac SNR (dB): 28.0
Anti-Gr: OFF

← Heading, COG & SOG

← Latitude & Longitude (Position)

← EBL

← XTD (Cross Track Distance)

← Route Data

← Cursor Data

← Sensor Data

A B C
[UNDERSCALE] (2004 Nov 26) CA470075 - CHS 3440 - Race Rocks to/a D'Arcy Island
Features(B+- Training)... + 1.5 NM 1:23500 - RM NUP EC

D E F G H I J K

- A - Warnings, status messages and current tasks
- B - Chart production date or date of most recent update
- C - Displayed chart title
- D - Features
- E - Zoom In
- F - Chart display range
- G - Chart display scale
- H - Zoom Out
- I - Centering Mode
- J - Chart Orientation
- K - Chart Projection

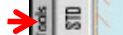


Key Simrad CS68 ECDIS Menu Function

1.	View list of installed Charts. Setup>Chart>Chart Catalog
2.	View the latest update number installed. Setup>Chart>Chart Legend
3.	Change Chart Settings. Setup>Chart>Presentation Settings
4.	View information on charted objects and view additional text. Right click>Object Info
5.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Setup>Chart>Presentation Settings
6.	Input a Mariner object. Tools>Mariner Objects>Create
7.	Input a Manual Update. Tools>Manual Update>Add Object
8.	Turn the Variable Range Marker on. Tools>Variable Range Marker
9.	Configure the Guard Zone (Anti-grounding Cone). Setup>Danger Alarm>Settings
10.	Configure Ship's Track. Setup>Vectors and Trail>Settings
11.	Configure Velocity Vectors. Setup>Vectors and Trail>Settings
12.	View Logbook. Tools>Logbook
13.	Input a Visual or Radar fix. Tools>LOP Position Fix
14.	Turn on Radar Image Overlay. Tools>Radar
15.	Sensor Selection Setup>Select Sensors



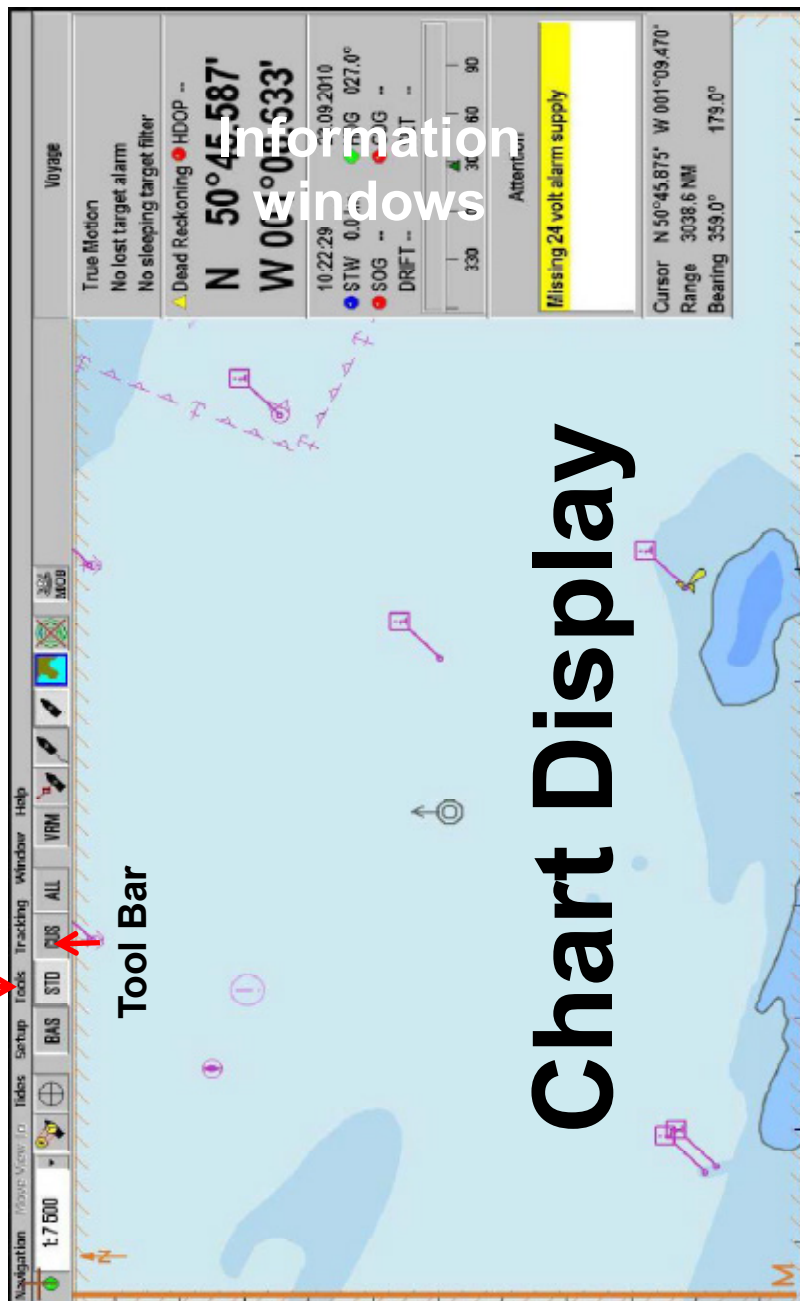
Menu Bar

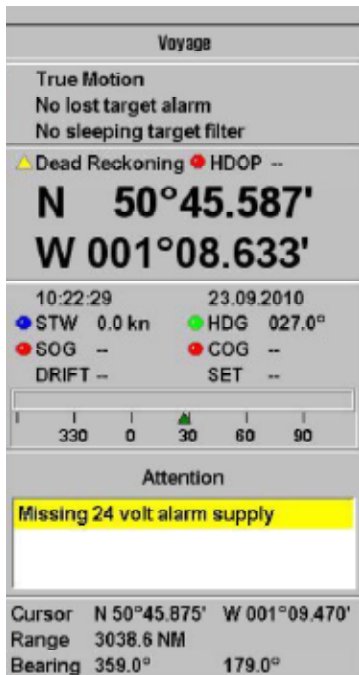


Tool Bar

Information windows

Chart Display





← Status Window

← Nav Window

← Attention Window

The screenshot shows the ECDIS control panel with various buttons and indicators. Red arrows point to specific controls with corresponding descriptions:

- 1:35 000 (Scale indicator)
- Quick route button (Icon with a yellow circle and a line)
- Show/hide ARPA and AIS Targets button (Icon with a circle and a line)
- Places a fixed mark button (Icon with a circle and a cross)
- Selection chart Layers buttons (BAS, STD, CUS, ALL)
- Turns on/off VRM button (VRM)
- Activates the Fixed range marker function button (Icon with a range marker)
- Shows/hides the vessel's trail button (Icon with a trail)
- Activates the follow ship function button (Icon with a ship)
- Select best Scale button (Icon with a scale)
- Activates/Deactivates AIS/ARPA/RIO button (Icon with a grid)
- Man Over Board marker button (MOB)
- Waypoint procedure indication button (Yellow Procedure)
- Voyage indicator field button (Deviation from route)



Key Raytheon Anschutz Synopsis ECDIS Menu Functions

1.	View list of installed Charts. Chart>S57 + CM93/3 chart Catalog...
2.	View the latest update number installed. S-57 Options>Legend...
3.	Change Chart Settings. S-57 Options>Overlays>Options
4.	View information on charted objects and view additional text. Mouse cursor on an object and click on the Query button
5.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. S-57 Options>Overlays>Options
6.	Input a Mariner object. S-57 Options>Add/Delete Mariners Objects...
7.	Input a Manual Update. S-57 Options>Manual Updates...
8.	Turn Free EBL/VRM on. Nav Tools>Free EBL/VRM
9.	Configure the Searchlight (Anti-grounding). Ship>Own Ship Vector
10.	Configure Ship's Track. Logs>Voyage Recording...
11.	Configure Velocity Vectors. Ship>Own Ship Vector
12.	View Logbook. Logs>Current 24 Hour Log...
13.	Input a Visual or Radar fix. Nav Tools>Line Of Position...
14.	Configure Guard Zone. Ship>Guard Zone ...
15.	Turn on Radar Image Overlay. Tool bar>Radar Overlay



Menu Bar



Tool Bar



Information Panel

Chart Display

Status Bar

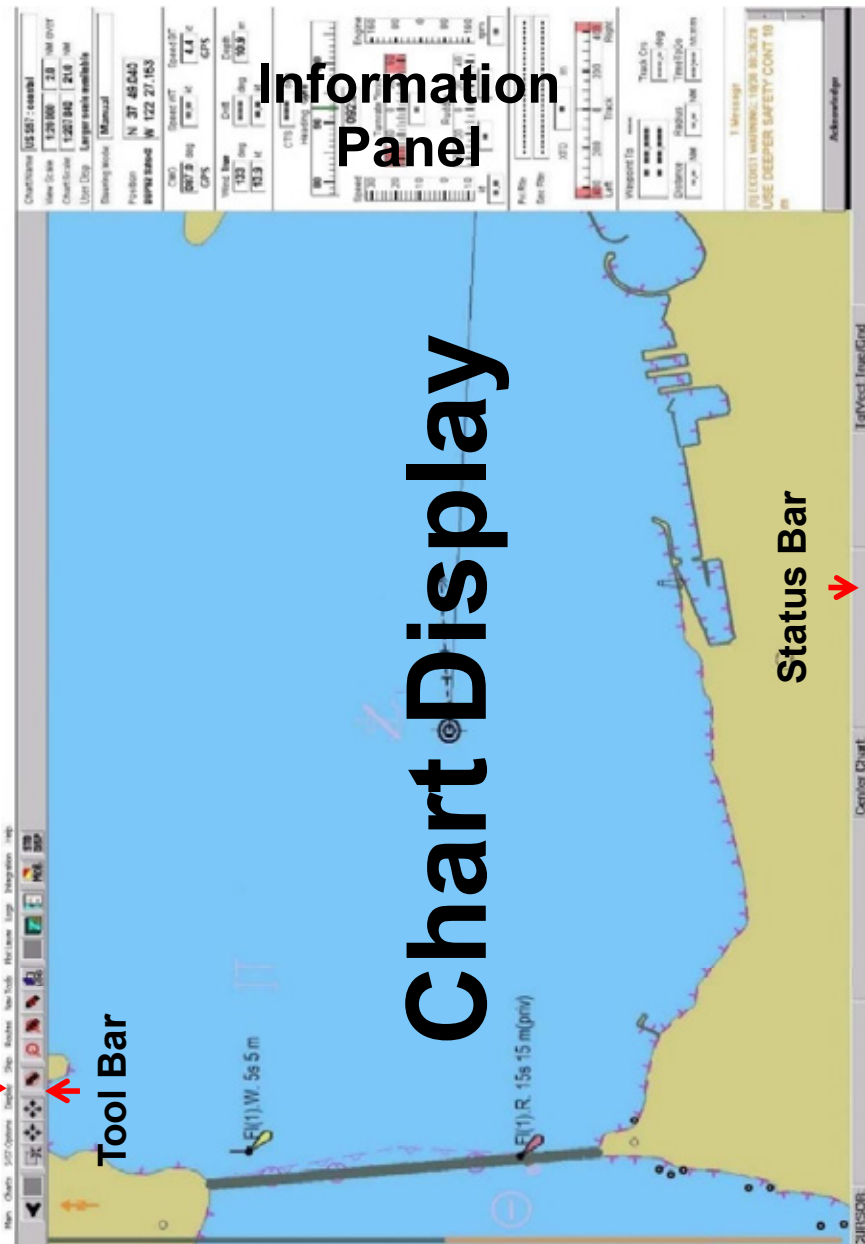


Chart Name **U5 557 : coastal**

View Scale **1:20 000** **2.0** NM Over

Chart Scale **1:207 840** **21.0** NM

User Disp **Larger scale available**

Steering Mode **Manual**

Position **N 37 49.040**
W 122 27.163

CMG **087.0** deg **GPS** Speed WT **4.4** kt Speed BT **4.4** kt

Wind True **133** deg **13.9** kt Drift **0.0** deg **0.0** kt Depth **10.9** m

CTB **0.0** deg Heading Gyro **092.5**

Speed **30** Turnrate **0** rpm Engine **160** rpm

Rudder **40** deg

Pri Rte **-----** Sec Rte **-----**

XTD **0** m

Left **200** Track **200** Right **400**

Waypoint To **-----** Track Crs **-----** deg

Distance **-----** NM Radius **-----** NM TimeToGo **-----** hh:mm

1 Message

[1] ECDIS1 WARNING: 18/30 08:36:28
USE DEEPER SAFETY CONT 18
m

Acknowledge

Chart Name, View Scale, Chart Scale, Overlays

Steering Mode, Position

CMG, Speed WT, Speed BT

Weather Wind, Drift, Depth

Course to steer

Heading Gyro, Engine RPM, Turnrate

Pri Route, Sec Route

Cross-track Error

Waypoint To, Track Crs, Distance, Radius, Time To Go

Waypoint To, Track Crs, Distance, Radius, Time To Go



- Previous/Next
- Free Zoom
- Zoom In/Out
- Center On Ship
- Free EBL
- Fixed EBL
- Mark At Ship
- Manual 24hour Log Entries
- NacTex Dialog
- Toggle ARCS/S57
- Select Chart



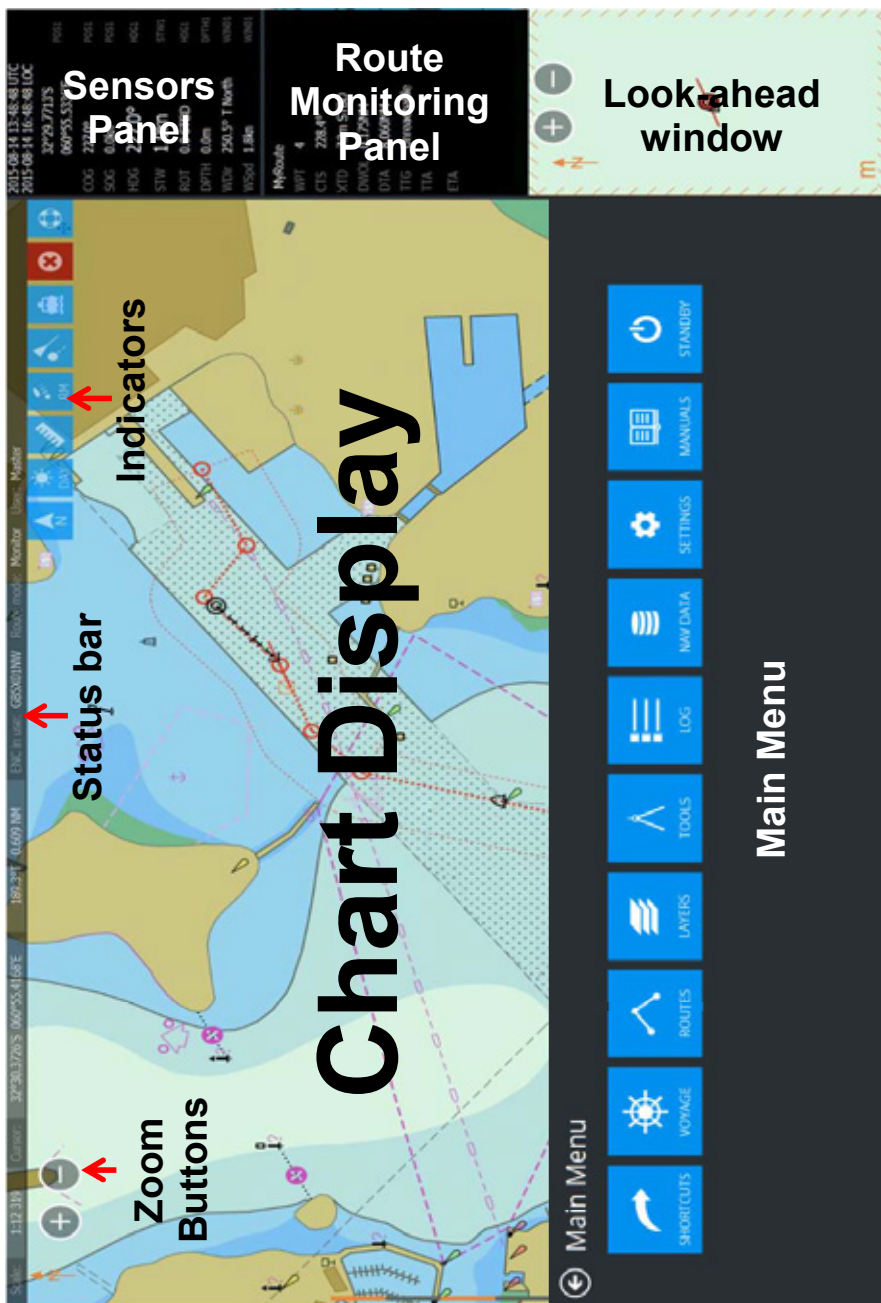
- Select Infopanel
- MOB
- Standard Display
- Radar Overlay
- ARPA Overlay
- AIS Overlay
- Tender Tracking

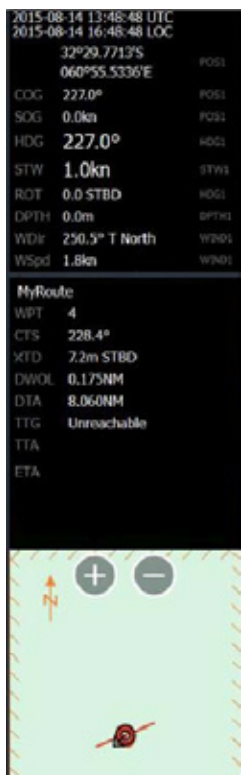


Key Danelec DM800 ECDIS G2 Menu Functions

1.	View list of installed Charts. Main Menu>Nav Data>Chart library
2.	View the latest update number installed. Right-click chart>Charts
3.	Change Chart Settings. Main Menu>Settings>Chart>Chart objects
4.	View information on charted objects and view additional text. Right-click object
5.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Main Menu>Settings>Chart>Portrayal settings
6.	Input a Mariner object. Main menu>Nav Data>Mariner objects
7.	Input a Manual Update. Main menu>Nav Data>Manual update
8.	Turn EBL/VRM on. Indicators>EBRL Tool
9.	Configure the Guard zone (Anti-grounding). Main Menu>Settings>Alarms>Grounding check
10.	Configure Ship's Track. Main Menu>Settings>Vessel>Display settings
11.	Configure Velocity Vectors. Main Menu>Settings>Vessel>Display settings
12.	View Logbook. Main Menu>Log
13.	Input a Visual or Radar fix. Main Menu>Tools>Manual observation
14.	Turn on AIO overlay on. Main Menu>Layers>Chart overlays
15.	Turn on Path predictor Main Menu>Settings>Vessel>Display settings





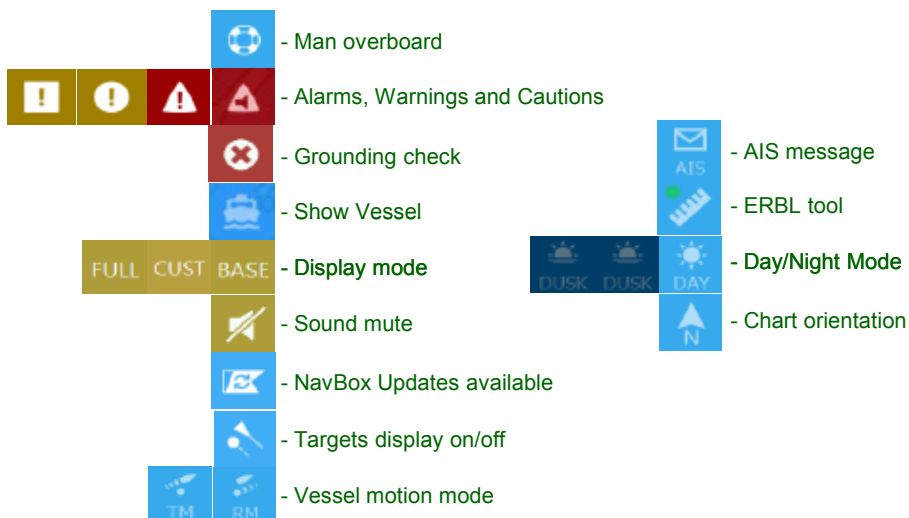


← UTC, Local Time and Date

← Sensors Panel

← Route Monitoring Panel

← Look-ahead window

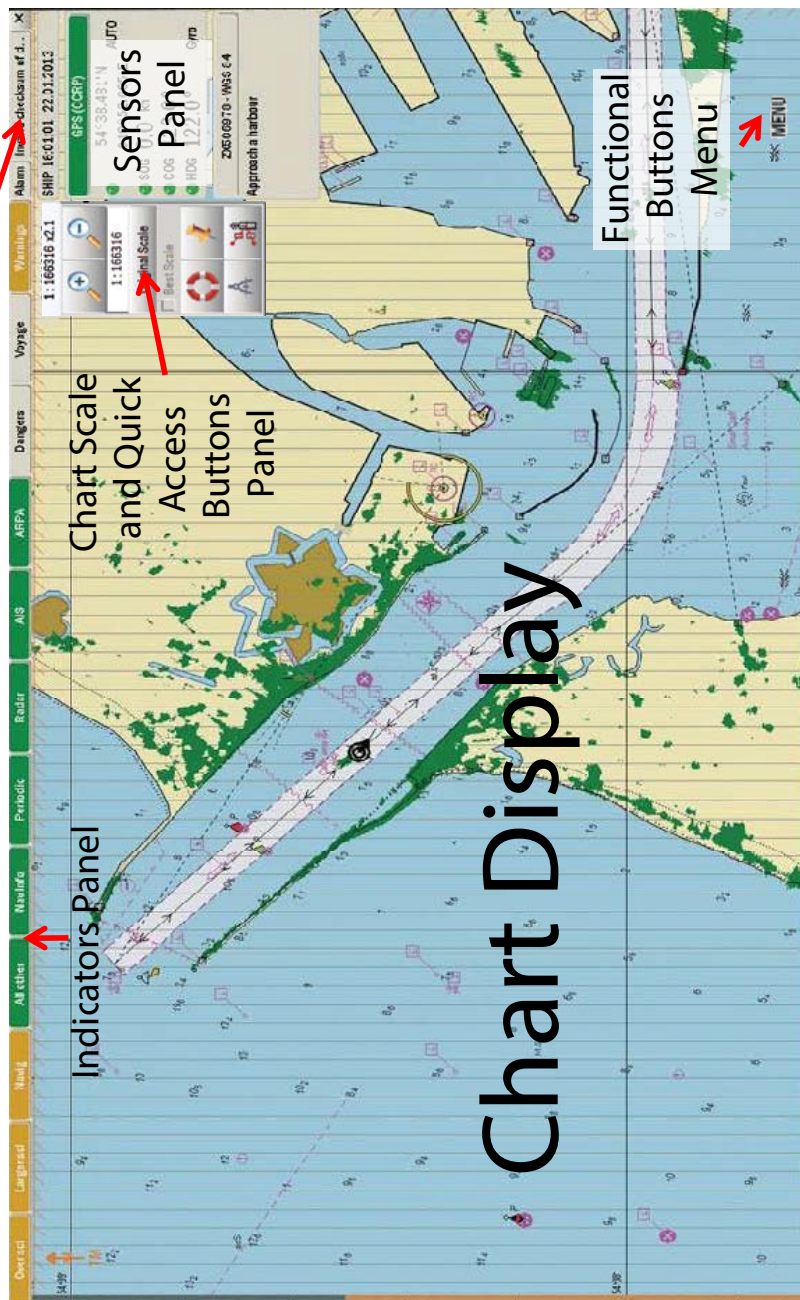


Key Market Marine iECDIS Menu Functions

1.	View list of installed Charts. Menu>Data>Chart Catalogue
2.	View the latest update number installed. Right click on chart>Object information>Chart Legend
3.	Change Chart Settings. Menu>Chart>Chart Settings
4.	View information on charted objects and view additional text. Right click on chart>Object information
5.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Menu>Chart>Chart Presentation
6.	Input a Mariner object. Menu>Chart>Mariner Objects
7.	Input a Manual Update. Menu>Chart>Manual Update
8.	Turn EBL/VRM on. Chart Scale and Quick Access Panel>ERBL tool
9.	Configure the Guard zone (Anti-grounding). Menu>Config>Alarm Setup
10.	Configure Ship's Track. Menu>Navi>Own Ship past track and vector
11.	Configure Velocity Vectors. Menu>Navi>Own Ship past track and vector
12.	View Logbook. Menu>Log Book
13.	Input a Visual or Radar fix. Menu>Navi>LOP Position fix
14.	Configure Radar Image Menu>Info>Radar Image
15.	Switch Position sources Menu>Navi>Navigation Data



Alarm Condition Indicator





← Alarm Condition Indicator

← Time and Date

← Position System Indicator

← Sensor Information and Status Panel

← Current Char Indicator

Current Chat Scale → 1 : 166316 x2.1 ← Overscale factor

Zoom In → [+] ← Zoom Out

Chart Scale Edit Field → 1 : 166316 ← Original Chart Scale

Best Scale → [] Best Scale

Man Over Board position → [Lifebuoy] ← Fix own ship position

ERBL tool → [A] ← Check Points tool



A - Source Scale Indicator

B - Scale Status Indicator

C - Navigation Mode Indicator

D - Data Display Type Indicator

E - Navigatopm Info Indicator

F - Periodic Date Indicator

G - Radar Display Indicator

H - AIS Targets Display Indicator

I - ARPA Targets Display Indicator

J - Dangers and Cautions Indicator

K - Voyage Indicator

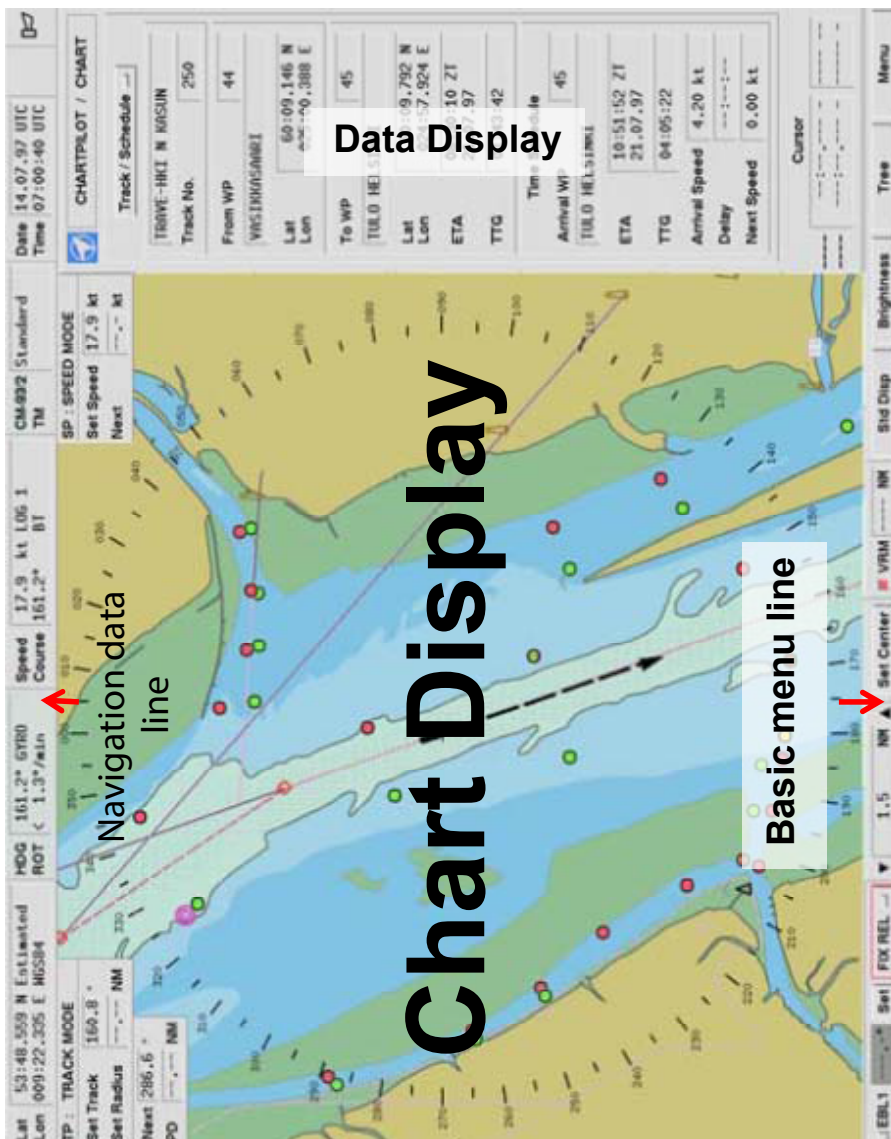
L - Warnings Indicator



Key SAM Chartplot 1100 ECDIS Menu Functions

1.	View list of installed Charts. Menu>Chart>Utilities>Chart Maintenance
2.	View the latest update number installed. Position Cursor in chart area>INFO>Legend
3.	Change Chart Settings. Menu>Chart>Visibility Groups
4.	View information on charted objects and view additional text. Position Cursor in chart area>INFO>Chart Contents
5.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Menu>Chart > Depth Contour
6.	Input a Mariner object. Menu>Chart>Mariner Objects
7.	Input a Manual Update. Menu>Chart>ENC>Edit Manual ENC Updates
8.	Turn EBL/VRM on. Basic menu Line> Select EBL1
9.	Configure the Ahead Sector (Anti-grounding). Menu>Alarm Settings>Chart Alarms
10.	Configure Ship's Track. Menu>Conning>Docking
11.	Configure Velocity Vectors. Menu>Chart>Presentation
12.	View Logbook. Menu>Chart>Utilities>Voyage Recording
13.	Input a Visual or Radar fix. Menu>Chart>Lines of Position
14.	Configure Radar Image. Menu>Info>Radar Image
15.	View Alarm List. Navigation data line>Horn symbol





Data Display


Chart Display

Navigation data line

Basic menu line



Navigation data line

A Lat 57:46.266 N Estimated Lon 018:41.921 E WGS84 Radar		B GyroHDG 314.1° ROT > 1.0°/min		C Speed 20.9 kt LOG 1 Course 314.1° BT	
D C-MAP TM / TRUE		E Standard		F Date 07.10.97 ZT Time 13:43:40 ZT	
				G 	

- A - Own position
- B - Compass course, rate of turn
- C - SMG and COG
- D - Selected chart type/Display mode/Display of the Vectors
- E - Status field
- F - Zone time, time zone
- G - Alarm list on/off

Basic menu line

A EBL1 45.0° Set			B FIX REL 			C 6 1 NM Set Center			
D VRM 2.00 NM		E Std Disp		F Brightness		G Tree		H Menu	

- A - EBL1 options
- B - Scale selection
- C - Specifying the centre of the chart
- D - VRM1 options
- E - IMO Standard display
- F - Breightness control
- G - Tree overview of the top two menu levels
- H - Menu display on/off

TRACKPILOT display

TP : HEADING MODE	
Set Heading	59.3 °
Set Radius	2.00 NM
Next	---.- °
	---.- NM

SPEEDPILOT display

SP : SPEED MODE	
Set Speed	14.6 kt
Next	---.- kt



Key SAM NACOS Platinum ECDIS Menu Functions

1.	View list of installed Charts. Super Home menu>Maintenance>Nautical Charts or Data Base
2.	View the latest update number installed. Right-click in application area>Chart Information
3.	Change Chart Settings. Settings>Chart
4.	View information on charted objects and view additional text. Right-click>Chart Information
5.	Set the Safety Depth, Safety Contour, Shallow and Deep Contour. Settings>Depth Contour
6.	Input a User Symbol. Tools>User Symbols
7.	Input a Manual Update. Super Home menu>Nautical Charts>select chart>Right-click>Manual Update Editor
8.	Turn EBL/VRM on. Tools>EBL & VRM
9.	Configure the Look-Ahead Sector Settings>ECDIS Alerts
10.	Configure Ship's Track. Sidebar - Permanent Area>Vector & Trails
11.	Configure Velocity Vectors. Sidebard - Permanent Area>Vector & Trails
12.	View Logbook. Super Home menu>Voyage Replay
13.	Input a Visual or Radar fix. Right-click>Create LOP
14.	Configure Radar Image. Menu>Info>Radar Image
15.	View Alarm List. Sidebar - Permanent Area>Alerts...



Application Area

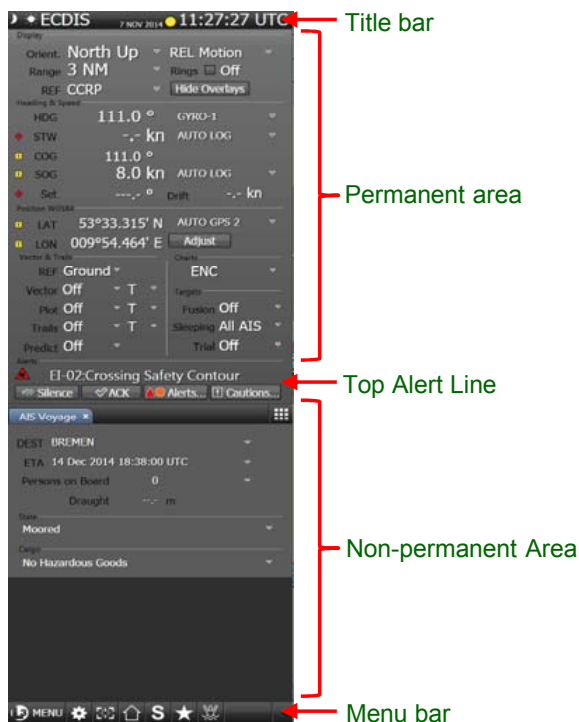
Title Bar

Permanent Area

Non-Permanent Area

Menu Bar





A B C D E F G

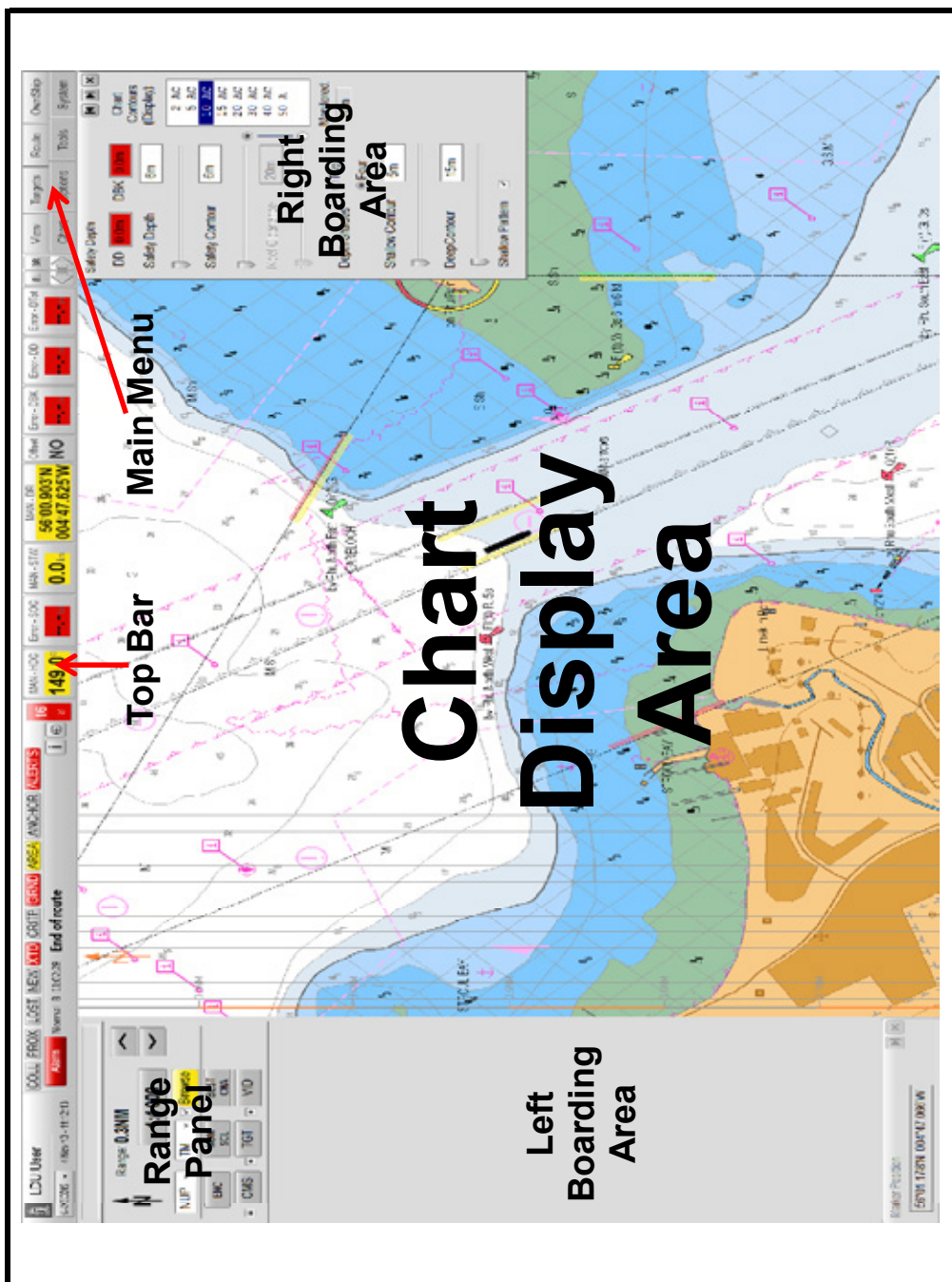
- A - Menu
- B - Settings Bar
- C - Screen Snapshot
- D - Super Home
- E - S-Mode
- F - Favorite Settings
- G - Man Overboard Button

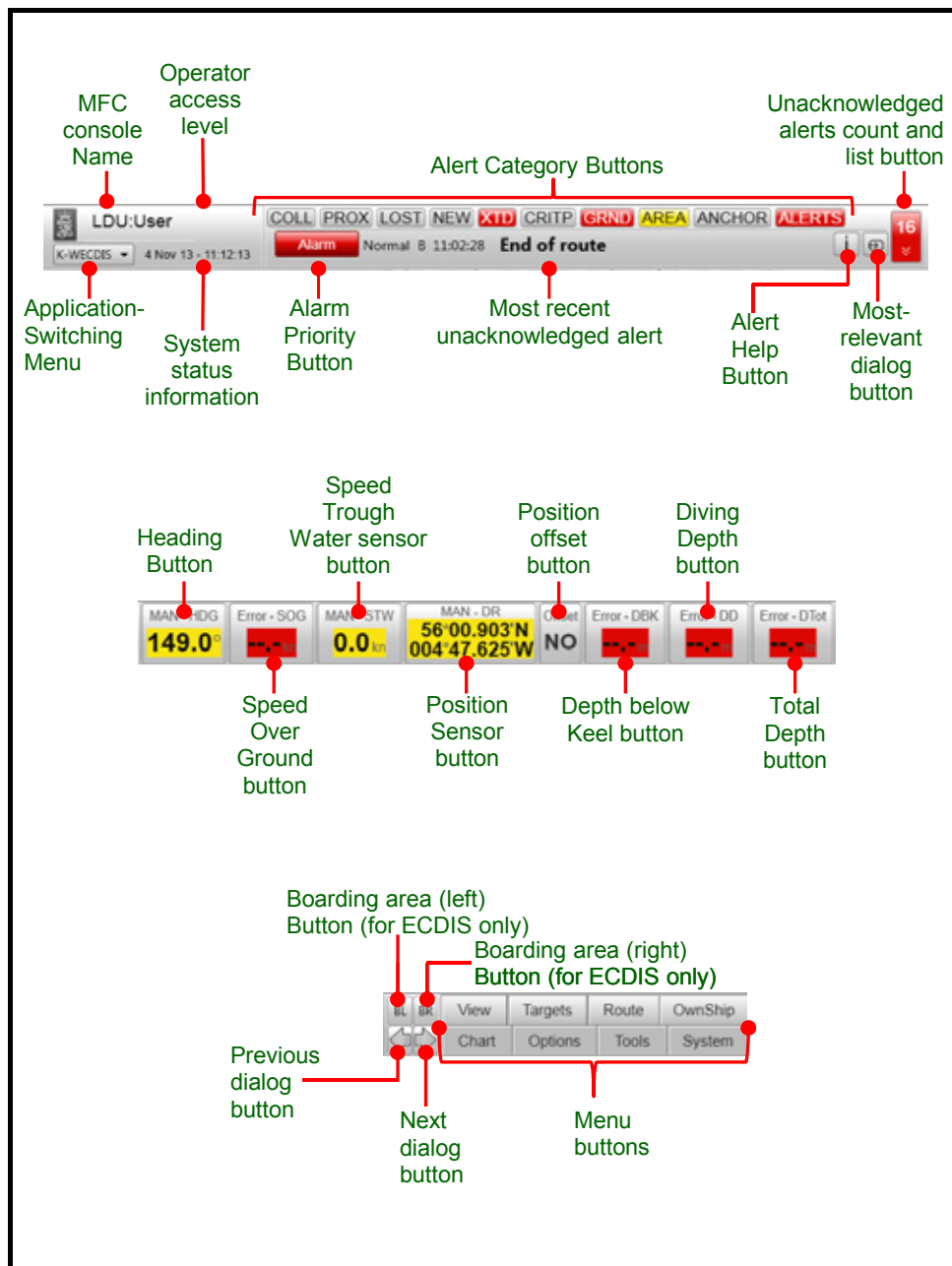


Key Kongsberg ECDIS Menu Functions

1.	Confirmation of Ship's Length, Beam, Maximum Draft and ROT. Ownship - Ship Parameters
2.	View list of installed Charts. Chart - Manage Charts - Settings - Coverage
3.	View the latest update number installed. Chart - Legend
4.	View information on charted objects and view additional text. View - Object Information
5.	Set the Safety Depth and Safety Contour. Chart - Safety Depth Setting
6.	Set the Shallow and Deep Contour. Chart - Safety Depth Setting
7.	Input Chart Notes. Chart - Manage Notes
8.	Turn the ship outline on. System - Parameter Settings - Display
9.	Configure the Anti Grounding Cone. Ownship - Anti Grounding
10.	Configure Velocity Vectors System - Parameter Settings - Display
11.	Configure Ship's Track. System - Parameter Settings - Track
12.	Manually change WPT information of an Active Route. Route - Monitor Route
13.	View past Alarms and Warnings. Alarms Panel
14.	Input a Visual or Radar fix. Tools - Position Line Tools - Position Fix







Handover Check-off when taking over the Watch

1.	Ensure that the correct Display setting is shown.
2.	Ensure that the correct Route is loaded in Route Monitoring.
3.	Ensure the secondary Route is loaded in Route Editor (if required).
4.	If in True Motion configure the Display Reset Setting.
5.	Verify that Safety Depth and Safety Contour settings are correct.
6.	Ensure that the Safety Frame is set for the prevailing conditions.
7.	Ensure that XTD is applied and displayed correctly.
8.	Ensure that Vectors are configured correctly.
9.	Ensure that the chart in use is on the best scale.
10.	Ensure that the chart is the most recently corrected ENC available.
11.	Interrogate the quality of data and review all Chart Notes.
12.	Fix the ship's position and prove ECDIS correct.
13.	Sight the ECDIS check-off cards.
14.	Ensure that the ECDIS Management Card is up to date.
15.	Repeat the above steps at the Secondary ECDIS terminal.
	<u>Also, if in RCDS Mode:</u>
16.	If in RCDS mode confirm the geodetic datum in use.
17.	If in RCDS mode view source data diagrams and review Chart Notes.
18.	If in RCDS mode ensure that paper back-up is correct.



GNSS Failure Check-off

1.	Read and Acknowledge the Alarm and identify the failed sensor.
2.	If the Primary GNSS has failed, select the Secondary sensor.
	<u>If no Secondary Position Fixing Sensor is Available:</u>
3.	Select DR or EP mode.
4.	Independently fix the ship using Visual and Radar means.
	<u>Then:</u>
5.	Identify other equipment that may be effected by the failed sensor.
6.	Instigate defect rectification.
7.	Amend the ship's Route as necessary.
8.	Call the Captain and Navigator.
9.	When the Primary Position Fixing System is restored, correlate with RIO and other means and inform the Captain and Navigator.



ECDIS Failure Check-off

	<u>If Single Unit Failure:</u>
1.	Use the second system, inform the Captain and Navigator and instigate defect rectification.
	<u>In Response to a Power Failure:</u>
2.	In event of a power failure and both systems revert to UPS supply, consider a controlled shutdown of one system.
3.	Inform the Captain and Navigator.
4.	In a timely manner to coincide with the expiry of the UPS on the first system, restart the second.
	<u>Upon Restoration:</u>
5.	Confirm that there are power supplies to each system.
6.	Use check-off cards to ensure that settings are correct, in particular: <ul style="list-style-type: none"> - Safety Frame - Safety Depth - Safety Contour - Velocity Vector - Units - Chart Priority - Chart Autoload
7.	Check that Primary & Secondary position sources are correct.
8.	Confirm that the heading source is selected and working correctly.
9.	Confirm that RIO is operating correctly.
10.	Check current position.
11.	Verify own vessel shape and that ship is aligned to ship's head.
12.	Conduct Alarm self test.
13.	Inform Captain and Navigator.



Recommended Display Settings

Custom Display Settings	Coastal/ Open Ocean (Day)	Coastal/ Open Ocean (Night)	Confined Waters (Day)	Confined Waters (Night)
AIS	*	*	*	*
ARPA	*	*	*	*
EBL/VRM	*	*	*	*
Scale Bar	*	*	*	*
Range rings				
Tides & currents	*	*	*	*
Spot Soundings	*	*	*	*
Isolated Dangers	*	*	*	*
Names	*	*	*	*
Cables & Pipelines	*	*	*	*
Buoys Names	*	*	*	*
Other Info				
All Depth Contours	*	*	*	*
Seabed			*	*
Four Shades	*		*	
Shallow Pattern	*	*	*	*
Use SCAMIN			*	*
Full Light Lines		*		*
Highlight Info				
Show Correction	*	*	*	*
M-Quality Objects (ZOC)				
National Names				
Show Outdated				

Safety Alarms - Basic Areas

Traffic Separation Zone	*	*	*	*
Traffic SS Roundabout	*	*	*	*
Two-way traffic route	*	*	*	*
Recommended traffic lane	*	*	*	*
Fairway	*	*	*	*
Caution Area	*	*	*	*
Areas to be avoided	*	*	*	*
Seaplane Landing	*	*	*	*
Ice Area	*	*	*	*



ESSA	*	*	*	*
Precautionary Area	*	*	*	*
Deepwater Route	*	*	*	*
Inshore Traffic Zone	*	*	*	*
Restricted Area	*	*	*	*
Offshore Prod. Area	*	*	*	*
Military Area	*	*	*	*
Submarine Transit	*	*	*	*
Dredged Area	*	*	*	*
Fishing Prohibited	*	*	*	*
Cable Area	*	*	*	*
Anchoring Prohibited	*	*	*	*
Spoil Ground	*	*	*	*
Incineration Area	*	*	*	*
Partly Sensitive Area	*	*	*	*

Prohibited Areas

International Maritime Boundary	*	*	*	*
Territorial Sea	*	*	*	*
Quarantine Anchorage	*	*	*	*
Swept Area	*	*	*	*
Harbour Limit	*	*	*	*
Explosive Dumping	*	*	*	*
Nature Reserve	*	*	*	*
Territorial Sea Base	*	*	*	*
Prohibited Area	*	*	*	*
Fishery Zone	*	*	*	*
Exclusive Economic Zone	*	*	*	*
Unsurveyed Area	*	*	*	*
Danger Line	*	*	*	*
Navtex Polygon	*	*	*	*

WARNING: This is a recommendation only. It is not to be relied upon as an aid to setting up ECDIS correctly. ECDIS Ltd does not accept any liability when using this document.



ECDIS Incident Investigation

Navigational Records

1.	What was the primary means of navigation in force at the time of the incident? <ul style="list-style-type: none"> - If paper charts, did the presence of ECDIS influence judgement? - If ECDIS, were the operators trained in its use?
2.	Were the following calculations carried out by the Navigating Officer (NO)? <ul style="list-style-type: none"> - Height of Tide - Tidal Stream - Amount of cable planned to be paid out - What was the planned Safety Depth? - What was the planned Safety Contour? - What was the calculated LDL?
3.	If the above calculations were lacking, did they contribute to the incident?
4.	Did the incident occur within the 'No-Go' area of the LDL or Safety Contour?

Planning – General

5.	Was the route and anchorage checked prior to execution? <ul style="list-style-type: none"> - Did the NO use the system to conduct a route scan? - Was the route checked by the NO at 1:1 scale? - Was the route checked by the CO? - Did the route contain ENC, RNC or a combination of both chart formats?
6.	If dangers were highlighted by the system check, what was done to de-conflict?
7.	If no dangers were highlighted during the route scan, is the NO able to configure the system so that only certain objects are highlighted during route scan? <ul style="list-style-type: none"> - If so. What were the settings in use and were they appropriate?



ECDIS Incident Investigation

Planning - Charts

8.	Were all the charts in all systems up to date?
9.	What was the last NTM held?
10.	Were all Licenses and Permits up to date at the time of the incident?
11.	When was the last time all chart Permits updated?
12.	When were all systems last updated?
13.	What is the latest Presentation Library held in the system? - If an old version, did this have a bearing on the incident?
14.	What chart had the NO planned to use at the time of the incident? - If an RNC, was this the best type of chart available? - Was an ENC of the same area available? - Was this the best scale chart available? - Was the chart up to date? - Was the chart the latest edition? - Were there any corrections outstanding to the chart?
15.	What display setting was used to plan the anchorage/ route? - Was this scale appropriate? - Were any details hidden on the display due to the scale in force?
16.	In the lead up to the incident, was there any information available from other sources such as NAVTEX or Local Notices that may have prevented the incident? - If so, were any displayed correctly on the ECDIS?

Execution- General

17.	Was a planned route loaded into Route Monitoring at the time of the incident?
18.	Did the ship anchor in the planned position?
19.	If the ship did not anchor in the planned position, did this have a bearing on the incident?



ECDIS Incident Investigation

Execution - Charts

20.	<p>With regard to the Chart in use at the time of the incident:</p> <ul style="list-style-type: none"> - What type of chart was in use at the time of the incident? - What was the scale of the chart in use at the time of the incident? - If an RNC, was it the best type of chart available? - Was an ENC of the same area available? - Was the chart in use up to date? - Was the chart in use the latest edition? - Were there any corrections outstanding to the chart?
21.	<p>Is there any inconsistency between RNC and ENC charts of the area?</p> <ul style="list-style-type: none"> - If so, is the obstruction in question clearly shown on all chart formats?
22.	<p>Was the chart on the best scale/ compilation scale i.e. 1:1 at the time of the incident?</p> <ul style="list-style-type: none"> - Was Chart Autoload activated? - Was Chart Autoscale activated?
23.	<p>What Chart Priority setting was in use?</p>
24.	<p>Did the obstruction appear on the most recent edition of the Chart?</p>
25.	<p>Was the meaning of the charted object that was involved in the incident understood by the NO, operator?</p>
26.	<p>With regard to the display settings at the time of the incident:</p> <ul style="list-style-type: none"> - What display setting was set? - Did additional layers create clutter that may have obscured the obstruction? - Was this display setting sufficient to show the obstruction on the ENC?
27.	<p>What palette was in use at the time?</p> <ul style="list-style-type: none"> - Was this appropriate?
28.	<p>What was the chart datum in use at the time?</p> <ul style="list-style-type: none"> - Was the system displaying the datum information correctly? - Did the system warn of any chart related inconsistencies with the chart datum?



ECDIS Incident Investigation

29.	<p>Was the AGC/Safety Frame turned on at the time of the incident?</p> <ul style="list-style-type: none"> - Were the system alarms configured to alarm for such an obstruction? - Did the system alarm for the obstruction? - Were all anti-grounding alarms activated?
30.	<p>Was all additional information, mariner's notes and manual corrections input and/or loaded into the system?</p>
31.	<p>At the time of the incident, was there any information available from other sources such as NAVTEX or Local Notices that may have prevented the incident?</p>
32.	<p>Was there any dialogue with local vessels or vessel services in the run-up to the incident?</p>
33.	<p>Was it drawn to the attention of the NO that the area was prohibited in any way?</p>

System

34.	<p>What was the primary sensor in use at the time?</p>
35.	<p>Had GPS or the primary position system been checked by visual or radar means prior to getting underway/weighing anchor?</p>
36.	<p>Was the system displaying any inaccuracy they may have led to the incident?</p>
37.	<p>Was the datum setting in the ECDIS and GPS correct?</p>
38.	<p>Was an offset in the GPS or the ECDIS?</p>
39.	<p>Had the system alarm been tested and proved correct?</p>
40.	<p>Were the system settings in accordance with SOPs and Cos standing orders?</p>
41.	<p>Was the system set up in accordance with the NOs wishes?</p>
42.	<p>Were ECDIS set-up and check-off cards available on the bridge?</p>
43.	<p>Is the system the most up to date version of the software?</p>



ECDIS Incident Investigation

Voyage Data Recording

- | | |
|-----|--|
| 44. | Check ECDIS Voyage Data Recording files have not been tampered with. |
| 45. | Utilise the Playback function and view the incident in real time. |

Other

- | | |
|-----|--|
| 46. | With regard to environmental conditions at the time of the incident: <ul style="list-style-type: none">- Wind direction and speed?- Tidal stream?- Wave height?- Sea state?- Visibility? |
| 47. | Were environmental factors of significance to the incident? |
| 48. | Had the operators conducted a recognised and appropriate 5 day ECDIS training course? |



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