



ACTIONS

- **Touch** is the same as **Left-Clicking** the chart. **Press** is what you do to Buttons or Check Boxes.
- **Left-Click Ship's Target** [F9] at any time to setup ship's position.
- **Left-Click** with no tools selected to centre chart. **Middle-Click** at any time to centre chart. [Shift]+**Left-Click** to select an object beneath the Ship's Symbol.
- **Right-Click** at any time to view data about that chart point (same as [Info]>[Touch])
- **Double-Click** the chart [N] to display the NMEA form.
- **MouseWheel** will perform fast zooming. **Middle Drag** Zoom to Window
- Touch/Slide along chart edges to pan chart when **Auto-Pan** button pressed.
- SHIFT/CTRL changes some key actions:
{SHIFT} or {CTRL} means press and release, [SHIFT] or [CTRL] means press and hold.

FORMS

- **Ship's Form**press [F9] or touch Ship's Symbol at any time
Dead Reckoning; Ship's Settings & Display Options; Wind Tools; Custom Settings
- **Waypoints** press **Waypoint** button, touch any existing waypoint
Rename; locate; activate as destination; show wind shadow; set icon style
- **All Waypoints**..... press [F10] or [Info]>[Wpt]
- **Route Details**touch a route **TurningMark** twice, or press [Info]>[Route]
View route details; activate; settings; planning; create auto search routes
- **All Routes**press [F11] or [Info]>[Route]
- **PastTracks**press [**BackSpace**] or CTRL-Click the Track
- **Chart Object Detail**..... right-click any chart symbol
- **Tides**..... right-click a Tide symbol
- **Raw NMEA Data**press [N] or double-click chart
Serial/WAN setup; Raw Data display; Replay a log file; enable NMEA talking
- **AIS/ARPA Targets** press [T] or [Radar/Target] button
- **About SOB**press [?] button
Installed Details, SOB Registration Status and UnlockCodes
- **Installed Charts** press [C-MAP] button on **About SOB** form
- **Order New Charts**press [C-Map Selector] button on **About SOB** form

KEYSTROKES

F1	Display help page showing keystrokes	[space]	Centre at ship
F2	Display/Hide Level Toolbar	[Alt]+[space]	Pan to exact location
F3	Display/Hide Chart Toggles Toolbar	[Enter]	Toggle Info mode
F4	Toggle Land & Sea Shading	[Backspace]	Show/Hide PastTrack form
	{SHIFT} Show/Hide depth-zone highlight	[Arrows]	Pan chart; {SHIFT} toggle step size
	[Home,End,PgUp,PgDn] Change depth settings	[L] [R]	Steer DR ship; {SHIFT} toggle step size
F5	Display/Hide Spot Soundings	[-] [+]	Change DR speed (numberpad keys)
F6	Toggle Mix Levels ON/OFF	[I] [O]	Zoom IN / OUT
F7	Cycle Chart brightness; {SHIFT} to reverse	[C]	Show/Hide Cursor Box
	{CTRL} Cycle Night Mode themes	[B]	Configure chart borders
F8	Declutter chart display	[N]	Show/Hide Raw NMEA form
F9	Ships form	[T]	Show/Hide Targets form
F10	All Waypoints form	[P]	Print mode ON/OFF
F11	All Routes form	[V]	Show/Hide ViewPanel menu
F12	Perspective View		

"Software-On-Board"

QuickStart Card – SOBvMAX

Pan / Zoom

	ZOOM-IN	Decrease chart scale. Change Level as required.
	ZOOM-OUT	Increase chart scale. Change Level as required.
	CENTRE CHART AT SHIP POSITION	Chart will be centred at Ship's Position.
	AUTO-CENTRE CHART	Ship's Symbol prevented from "sailing" off the screen.
	AUTO-PAN CHART	Moving the cursor along the chart edge will pan the chart.

Special Tools

	MAN OVER BOARD	Begin a MOB scenario. SOB will calculate a return route and provide instructions and retrieval tips. The MOB creates a regular Wpt at the Ship's Position setup as a "Navigate to Destination" mark.
	TARGETS	Show form listing acquired AIS / ARPA targets and CPA details and settings. If connected, settings for redisplay of RADAR cursor, scale-rings and VRM/EBL.
	LOCATE PORTS AND SERVICES	Search for Ports, Marinas or any of dozens of various marine services and facilities (fuel, water, phone, post, toilets, chandlers etc). Displays range and bearing (from display centre) and location of these places. Note: ports and services will only be displayed if detailed charts of these locations are installed.
	TIDES	<ul style="list-style-type: none"> • Zoom to change the chart level to C, D or E Level to show Tide Symbols on chart. NOTE: The current chart level is displayed in square brackets on the status bar eg: [D] 75000:1 • Right-Click or [Info->Touch] any tide symbol for tide data, graphs & predictions.

Information & Settings

	INFORMATION	Depressing this button is like entering Right-Click mode ... <ul style="list-style-type: none"> • Point to a chart navigation symbol or Target to show Quick Information box. • Touch any chart symbol for detailed information (same as Right-Click). • Use with Route, Waypoint or Centre Button to extend their function. Note: for TouchScreen use, true right-click mode is entered via the driver utility
	SHOW/HIDE DATA & INFORMATION PANELS	Control display of View Panels: Ship's Data; Messages; Navigation; Targets; Anti-Grounding.
	PRINT	Starts chart print mode. Select [Portrait] or [Landscape], zoom/pan the chart as desired, then press the [Printer] button to preview and print the image.
	DECLUTTER	Reduce chart tools and drawings to minimalist display to declutter the chart surface. Hides Wind tools, Text labels, Chart borders etc
	REGISTRATION & C-MAP CHART DETAILS	<ul style="list-style-type: none"> • Show version details about SOB and the C-MAP library • Enter SOB Unlock Code to establish Registration • View details about current C-MAP charts and licenses • Run "C-Map NT/PC Selector" application to order/purchase additional charts

Drawing Modes / Navigation Tools



WAYPOINTS Touch chart to mark a position. Touch an existing wpt for detailed information or to change settings. Place wpt at ship's position with the MOB button, then end MOB mode, and reconfigure wpt if desired. **Move:** enter exact lat/lng on wpt form; or [Ctrl]+Touch to "capture" wpt, then Touch at new position. [Ctrl]+Touch again to cancel. Hint: use mouse Middle-Wheel & Middle-Button to pan/zoom while in Wpt Mode



ALL WAYPOINTS Press the [Info]>[Wpt] buttons, or the [F10] key. Manage all loaded and unloaded wpts from this form. Control the groups (files) of Wpts for Loading or Unloading. Capture Wpts from compatible GPS, load User files (MARK/EVENT/ROUTE) from C-Map UserCard.



QUICK NAVIGATION POINT & LINE Touch the chart to draw a navigation line from Ship's Position. The Info Box shows: lat/long; range (RL & GC); magnetic variation; bearing and reciprocal heading; Time-to-Go at current SOG. Note: the InfoBox can not be hidden, to remove from your work area, zoom out or pan and place the box out of the way, then return to your work area. The line drawn from InfoBox to Ship can be hidden or displayed via the **Ship Tools** page of the **Ship's Form**.



RANGE & BEARING LINES General purpose, quick measurement tool for distances and headings to/from your ship, or between any two points: Touch the chart to draw an RBL from Ship's Position, consecutive Touches will extend the RBL. After five extensions the RBL will restart. Manually restart the RBL by pressing this to Turn-Off, then press again to Turn-On). The RBL(s) have a short life span, whenever this button is depressed the current RBL is cleared and new RBL started. Hint: to remove the RBL from the chart - enter RBL mode (depress button), then exit RBL mode without touching chart. All RBLs are initially drawn to the previous point and the ship - after the next chart refresh, only the start and end points of the RBL(s) will connect back to the ship. Hint: Rng/Brg values for RBL being drawn are shown on statusbar and Cursor box [C]



ROUTES **Create a new Route** Start Route mode, consecutively Touching chart will place the Starting-mark, Turning-marks and Destination positions. **Select a Route** Touch any route mark to select that route, the route will change colour to red to show it is selected. The currently selected mark, is a large solid dot, the next mark along the route is a large hollow dot. **Edit a Route** Select a Route Mark, then Touch at new location. Hint: if the old mark is in the way when moving, first move to a different location, then move back **Insert Route Mark** Touch a mark twice, press [Insert] to place new mark after selected mark. Touch at the Mark's desired location. **Delete a Mark** Touch the mark twice, press [Delete]. Hint: use the Middle-Wheel and Middle-Button to pan/zoom while Route editing

Activate a Route: depress [Activate] button on any Route Form. Active routes will start N2D mode and send control data to an AutoPilot. Hint: enable AutoPilot connection on NMEA form

Route Details form Touch any route mark twice, press [Details] or highlight route in the list on the **All Routes** form, then press [Details] or for Active Route a [Details] button is on N2D Panel.



ALL ROUTES Press [Info]>[Route], or type the [F11] key for Route Management. **Route files** All routes used during a SOB session are automatically saved when the program exits, the route name is used for the file name. To force a save, press [←] on the **All Routes** form. To delete a route, simply delete the file name from Windows™ Explorer.

NOTE: Routes are easily transferred between computers (either email as an attachment, or save to disk), just place the file in the Routes folder, then load it in SOB using the All Routes form.

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QuickStart Card – SOBvMAX

INTERFACE

SOB is designed for "touch screen" use, however extra functionality and ease of use is experienced with a mouse (middle-wheel recommended). The interface contains no menus and few actions require mouse "dragging". The chart display will automatically refresh itself every 5-10 seconds. For convention, our documentation uses [] brackets to indicate a button and "!" for first character of filenames used by SOB. Further help and online manual at www.sob.com.au

INSTALLING & FILE LOCATIONS

SOB will auto-install into the C:\SOBvMAX folder. This is the recommended folder, however you can override this and use any location (eg: 'C:\Program Files\SOB'). Win2K and WinXP users will need to login as 'Administrator' to install and use SOB in its default folder.

If upgrading from previous SOB version – you may need to copy your Waypoints, Routes, Logfiles, Trackfiles and Licensed Charts over to the corresponding folder in SOBvMAX\.

- **\SOBvMAX**
 - SOBvMAX.exe Main program file
 - SOB_COM.exe Utility Program for detecting & setting available serial ports
 - QuickStart.pdf This card
 - SOB Manual.pdf Printable version of the SOB Online User Manual
 - RELEASE_NOTES.pdf Addendum to the PDF User Manual
 - *.pdf, *.txt Other files which may be of interest
- **\SOBvMAX\Waypoints**
 - !waypoints.wpt SOB default waypoints file, which are reloaded when SOB starts
 - *.wpt User's wpt files, load as necessary with AllWaypoints form
- **\SOBvMAX\Routes**
 - *.rte User's route files, load as necessary with AllRoutes form
 - !autoload.rte If exists, will load automatically when SOB starts
- **\SOBvMAX\Logfiles**
 - !messages.txt File containing text from the Messages ViewPanel
 - !WAN_list.txt Connection details for LAN/WAN remote SOB PCs or NMEA sources
 - !FRIENDS_list.txt User list of known Targets for distinct identification and display
 - !AIS_DATA.txt Row/column format text file of all Targets for analysis with Excel (Hint: enable Target logging on AIS/ARPA/WAN Targets form)
 - !SOB_NMEA_DATA.log SOB's NMEA data log file. (Hint: enable logging on NMEA Data form)
 - !autoplay.log NMEA text file. If exists, will start playing when SOB starts up
 - *.log User log files. Any text file containing NMEA sentences
- **\SOBvMAX\PastTracks**
 - !LastTrack.trk Previous displayed pastrack for automatic loading when SOB starts
 - !PastTrack.txt Accumulated PastTrack data.
 - *.txt PastTrack files that can be reloaded in SOB, or analysed in Excel
- **\SOBvMAX\DemoCharts**
 - DMCxxxx.MCV Full detail demo-charts (Warning: not the latest charts, evaluation use only)
- **\SOBvMAX\Charts** (optional folder for storing licensed C-Map charts)
 - AJUM00501.MCP eg: Australia chart #005 ver 01 (MAXonPC chart)
 - EWC21507.MCP eg: Western Europe #215 ver 07 (NTonPC chart)
- **\SOBvMAX\UserCard**
 - (created by SOB when a C-Map UserCard file is saved to HDD)
- **\Program Files\C-MAP NT PC Selector\Charts**
 - (default C-Map assigned folder for storing licensed chart files)