



SmarterTrack 2014

PC Navigation & Electronic Charting System

AIS Performance Features

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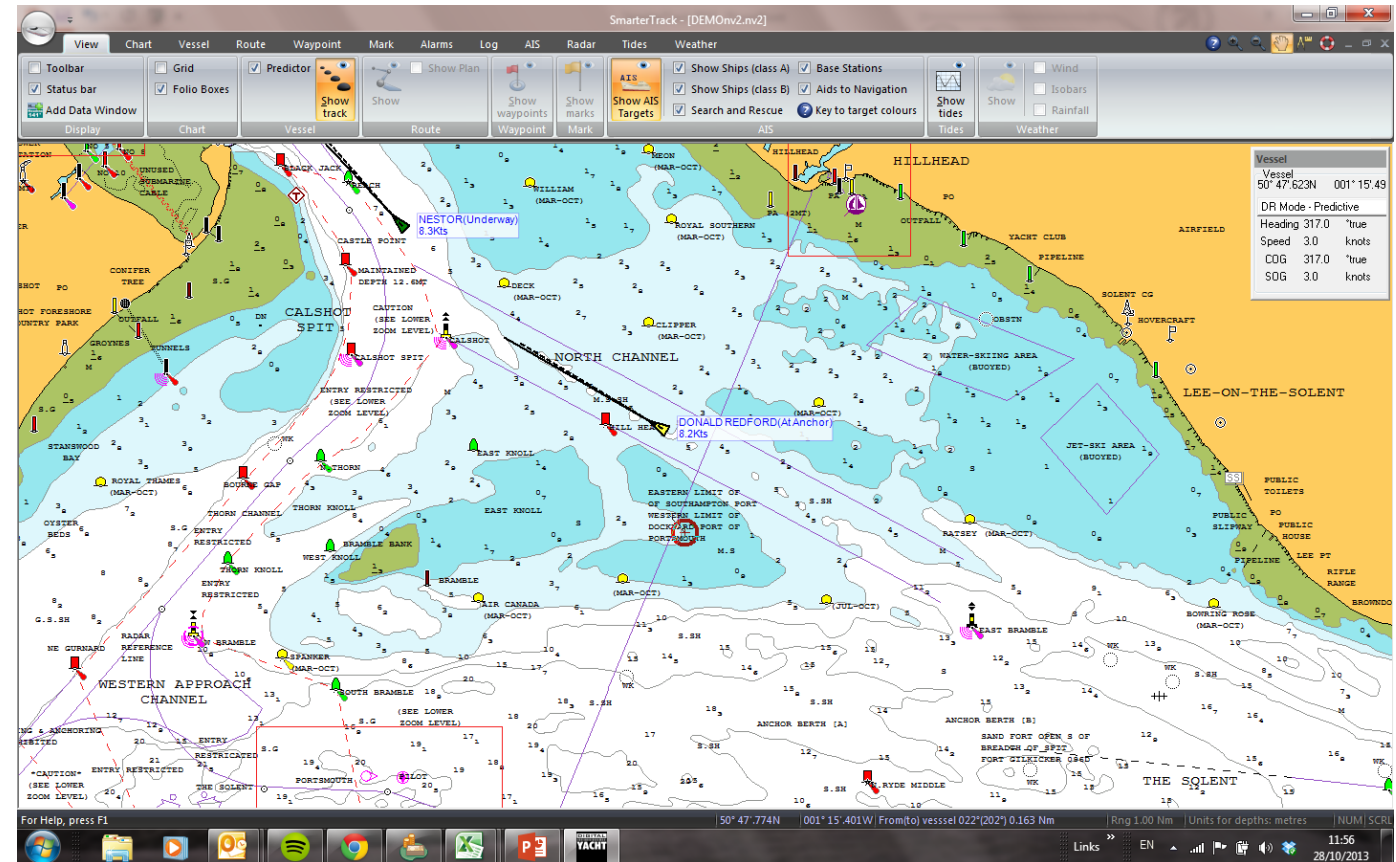
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SmarterTrack 2014 is now shipping and has a host of new features which position it as the most powerful PC electronic charting solution for AIS integration

Standard Features

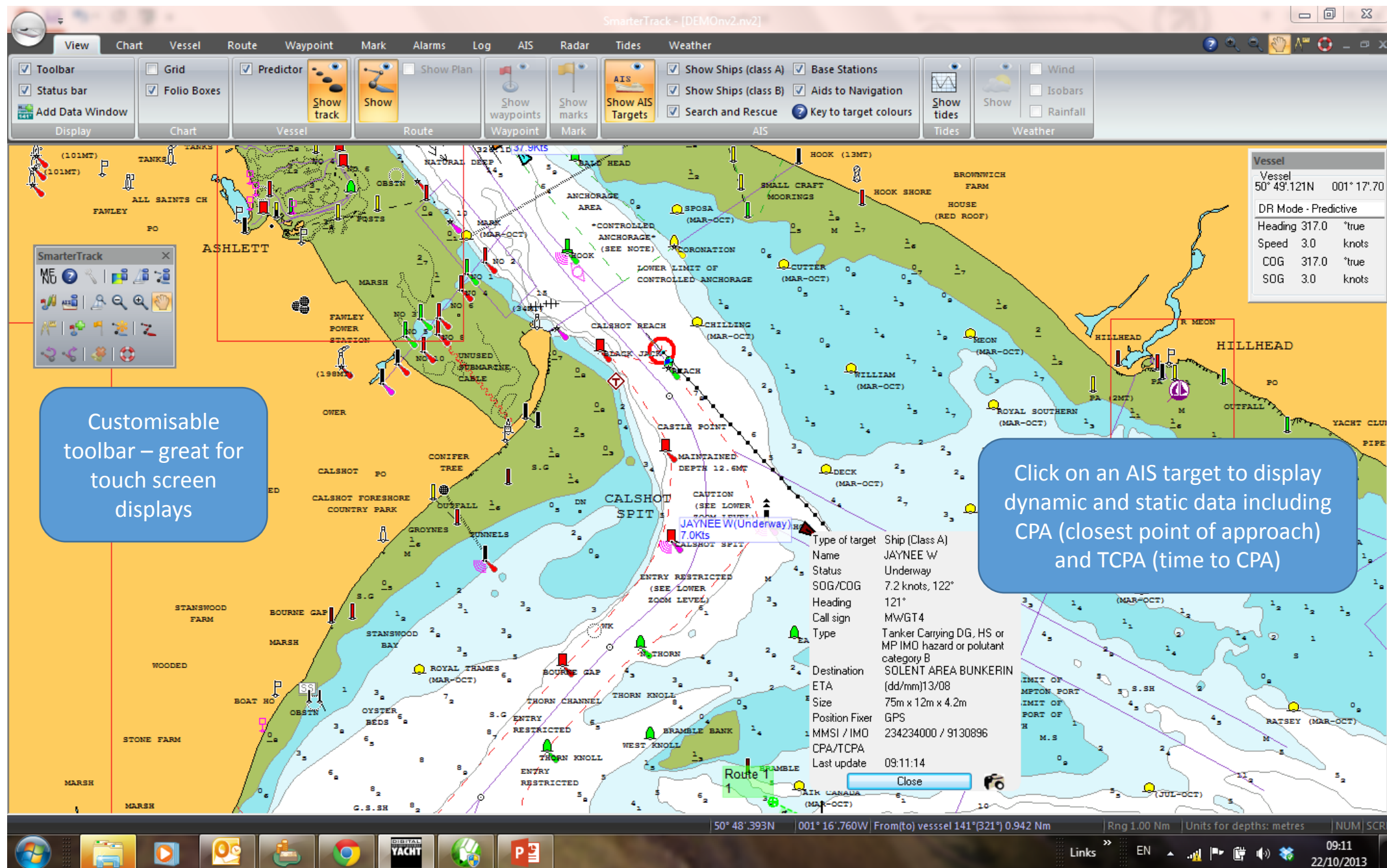
- Utilises Navionic's charts – compatible with GOLD & PLATINUM charts with unique feature to copy chart data to PC hard drive. Ideal for use in mixed plotter PC systems and save on e charting costs
- Full chart layering with selectable chart features
- Now also compatible with Navionic's SONAR charts for extended depth contour details
- Full real time navigation with tracking, log book, route planning and data exchange to compatible plotters
- Weather overlay capability with animated GRIB files
- Sophisticated AIS target displays, alarms and overlays
- MOB facility
- Configurable alarms for CPA/TCPA, anchor drift, GPS failure
- Easy operation - Optimised tool bars for touch screen – ideal for use with Windows 8
- NMEA 2000 version available with USB-NMEA 2000 interface



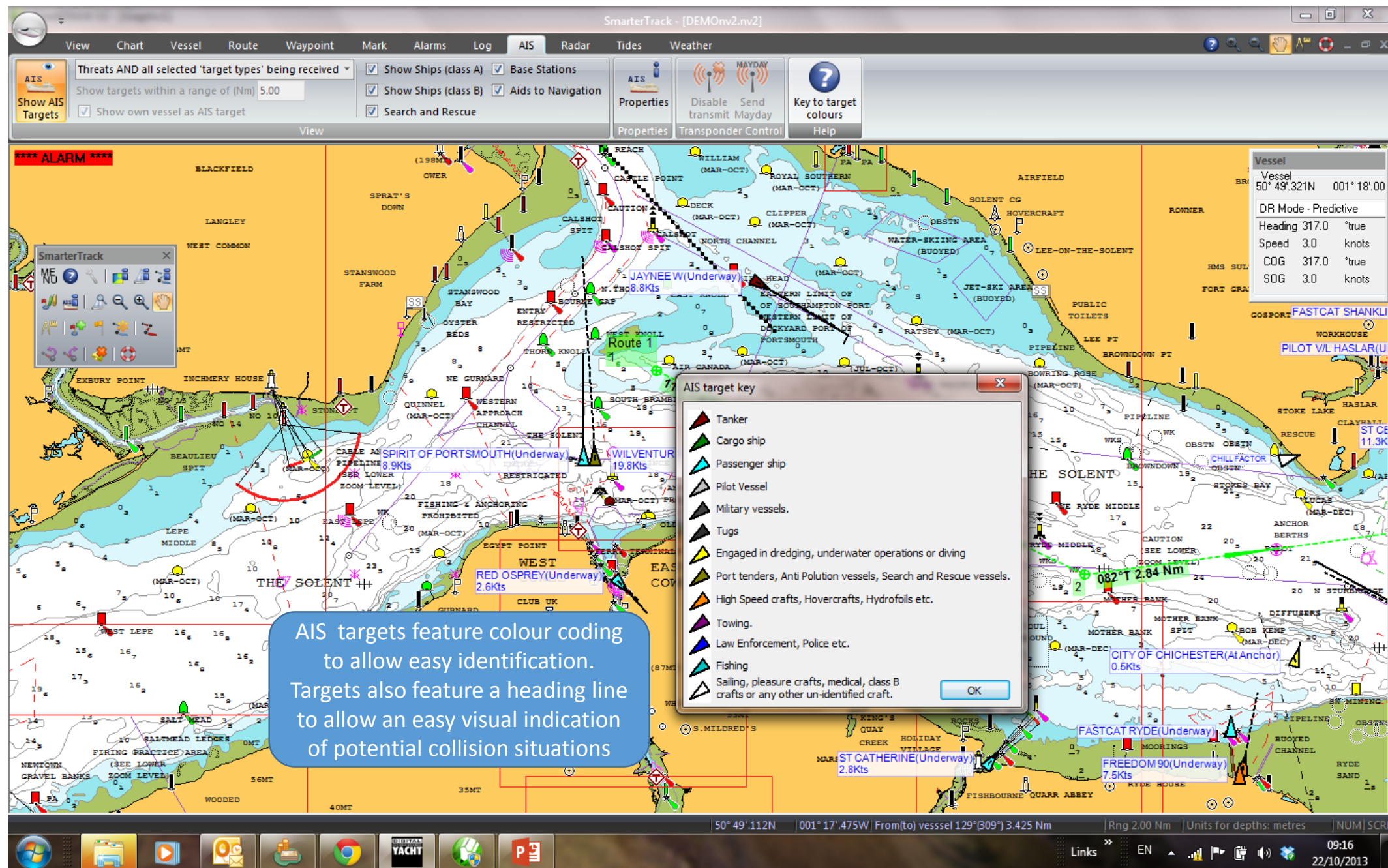
Traditional chart plotters can't match SmarterTrack's impressive AIS target overlay and sophisticated CPA/TCPA tracking capability.

SmarterTrack 2014 brings a host of new AIS features

- Click on a target and bring up dynamic and static AIS target data
- Targets can have an optional target summary tag which is displayed continuously

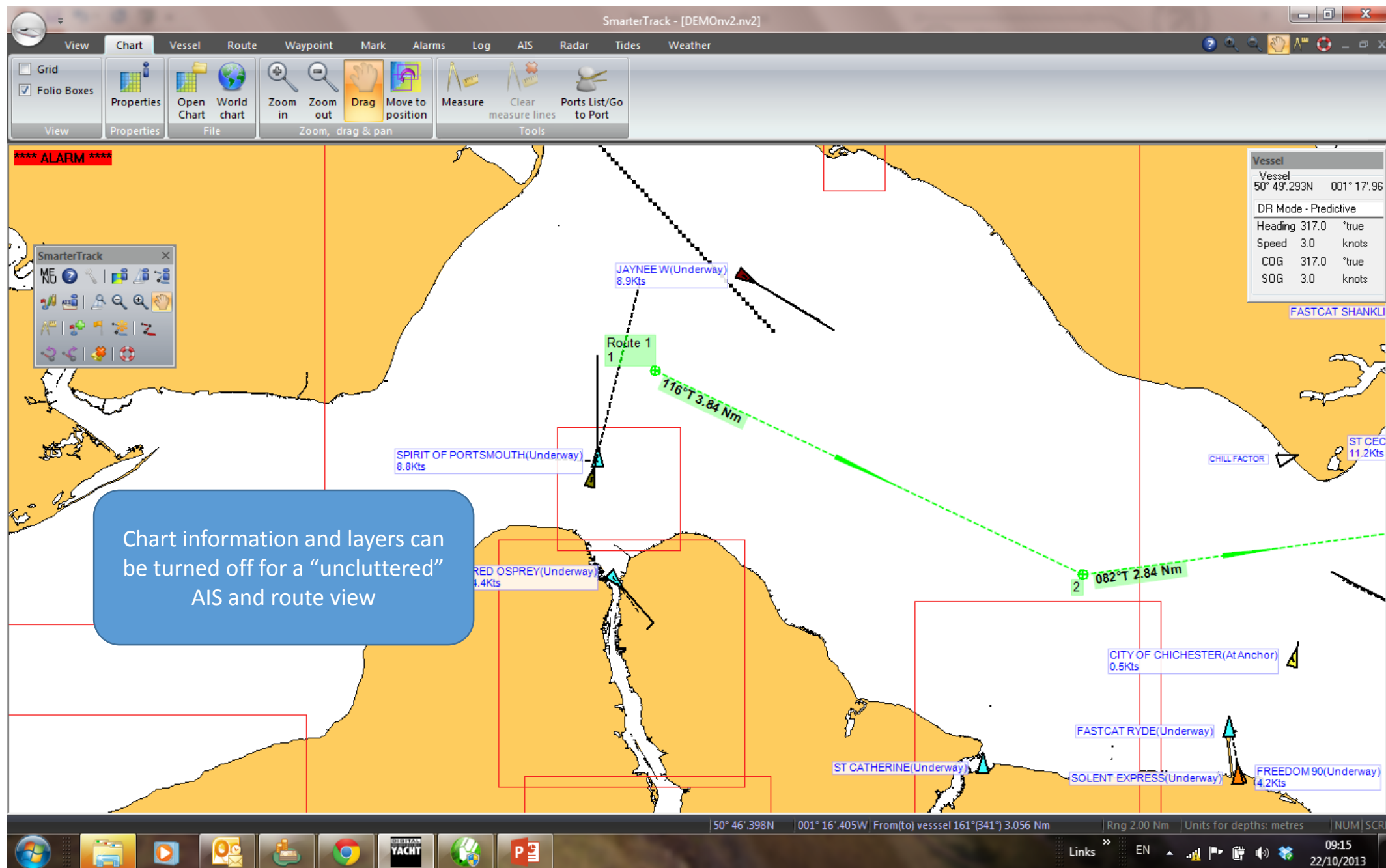


- AIS targets are colour coded for easy identification. Note also the heading line and course predictor from targets to help anticipate dangerous targets and collisions

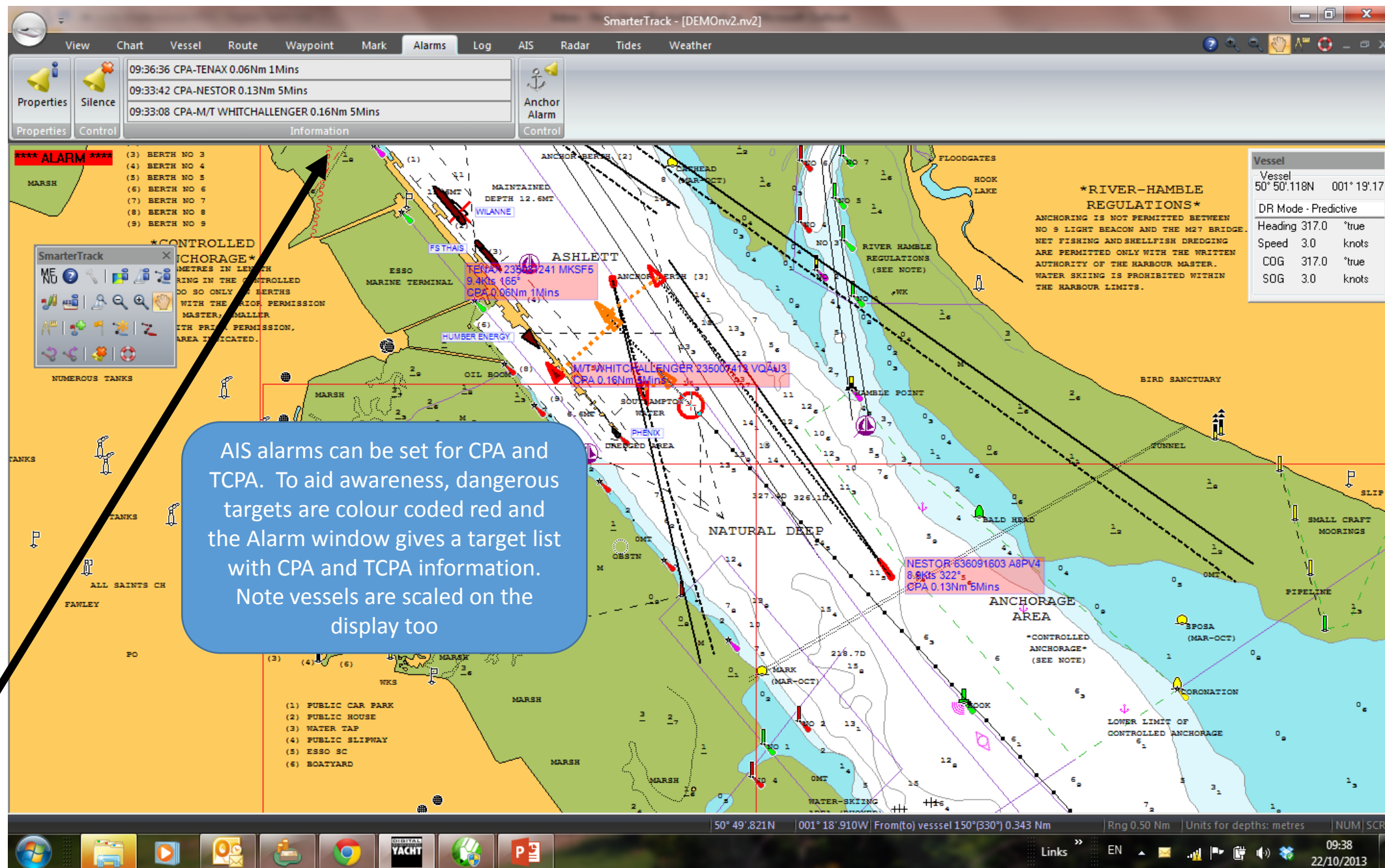


SmarterTrack 2014 brings a host of new AIS features

- The charting screen can be “decluttered” leaving just your active route and AIS targets as required.
- SmarterTrack supports multiple charting layers so the data can be presented in a custom format



- Alarms can be set for closest point of approach and time to closest point of approach.
- Targets that are dangerous and activating an alarm are coloured red on screen and a heading line visually indicates the danger point
- Note (by the toolbar) a drop down list of alarms (with time stamp) is available





SmarterTrack 2014 brings a host of new AIS features

- When integrated with a Class A AIS, voyage data can be sent to the AIS direct from SmarterTrack. It supports a wifi link too via our WLN10HS

The screenshot displays the SmarterTrack software interface. At the top, a menu bar includes View, Chart, Vessel, Route, Waypoint, Mark, Alarms, Log, AIS, Radar, Tides, and Weather. Below the menu, a toolbar contains various icons for AIS, Properties, and other functions. The main window shows a nautical chart of Southampton Water with several vessels plotted. A dialog box titled "AIS properties" is open, displaying fields for Navigational Status, Destination, Number of persons on board, Draft, Ship type, and Cargo type. The "Vessel specification for AIS" tab is selected. A blue callout box in the bottom right corner states: "SmarterTrack can support voyage data inputs via NMEA or wirelessly via our WLN10HS and PilotLINK. That saves keying data manually into the Class A".

AIS properties dialog box fields:

- Target list: [Dropdown]
- Show: [Checked]
- Display - Symbol, Lines, CPA: [Checked]
- Display - Text: [Checked]
- CPA/Threats/Alarms: [Checked]
- Control (Transponder): [Dropdown]
- Voyage data: [Dropdown]
- Vessel specification for AIS: [Dropdown]
- Navigational Status: Not defined
- Destination: [Text field]
- Number of persons on board: 1
- Estimated time of arrival (ETA) (DD/MM): 23 / 10
- Draft: 2.99 feet
- Ship type: [Dropdown]
- Cargo type: [Dropdown]
- Update with data FROM Transponder: [Button]
- Update data in Transponder: [Button]
- OK: [Button]
- Cancel: [Button]

Vessel specification for AIS:

Vessel	
Vessel	50° 50' 733N 001° 20' 08
DR Mode - Predictive	
Heading	317.0 *true
Speed	3.0 knots
COG	317.0 *true
SOG	3.0 knots

SmarterTrack 2014 brings a host of new AIS features

- Select target list for a sortable table of targets.
- Choose to sort by MMSI, name or nearest vessel

The screenshot displays the SmarterTrack software interface. The main window shows a map of Southampton Water with various vessels and navigational aids. A 'SmarterTrack' toolbar is visible on the left. The 'AIS' menu is open, showing options like 'Show AIS Targets', 'Show Ships (class A)', 'Show Ships (class B)', 'Search and Rescue', 'Base Stations', 'Aids to Navigation', and 'Transponder Control'. The 'AIS properties' window is open, showing a table of targets sorted by 'Nearest To Vessel'.

AIS properties window - Target list

MMSI	Name	Call sign	Target type	Latitude	Longitude
256711000	ROVA	9HBC9	Ship (Class A)	50° 50' 49.9N	001° 19' 9.24W
635003000	FS THAIS	FQEL	Ship (Class A)	50° 50' 43.5N	001° 19' 8.47W
235053723	APEX	MQVM8	Ship (Class A)	50° 50' 9.31N	001° 19' 6.08W
235032402	HUMBER ENERGY	MDCU5	Ship (Class A)	50° 50' 2.57N	001° 19' 6.96W
235007413	M/T WHITCHALLENGER	VQAU3	Ship (Class A)	50° 50' 1.85N	001° 19' 6.05W
232003592	DONALD REDFORD	MGWN9	Ship (Class A)	50° 50' 3.36N	001° 19' 2.87W
234234000	JAYNEE W	MWGT4	Ship (Class A)	50° 50' 2.36N	001° 19' 2.95W
235053701	PHENIX	MQVD9	Ship (Class A)	50° 50' 0.67N	001° 19' 4.28W
235031241	TENAX	MKSF5	Ship (Class A)	50° 50' 0.66N	001° 19' 3.99W
636091603	NESTOR	A8PV4	Ship (Class A)	50° 51' 3.45N	001° 20' 9.30W
244030211	KITE	PI4014	Ship (Class B)	50° 51' 0.44N	001° 18' 5.70W
235006680	RED OSPREY	MTRL 5	Ship (Class A)	50° 48' 8.20N	001° 17' 6.61W
235011860	EILEEN C	MPJC3	Ship (Class A)	50° 53' 0.36N	001° 23' 5.80W
235040503	WHITONIA	MPUN5	Ship (Class A)	50° 53' 3.58N	001° 23' 6.76W
257708000	BALTIC CLAIRE	LAFT6	Ship (Class A)	50° 53' 3.68N	001° 23' 7.24W
355649000	GRAND MERCURY	HOOC	Ship (Class A)	50° 53' 4.54N	001° 23' 9.31W

Target list facility sortable by name, MMSI or nearest to vessel

SmarterTrack 2014 brings a host of new AIS features

- FAST – a new AIS info recovery system allows static data to be gathered from SmarterTrack's internal memory rather than waiting for the static data transmissions
- Target graphics can also be preset

The screenshot shows the SmarterTrack software interface with a nautical chart background. The 'AIS' tab is selected in the top menu. The 'AIS properties' dialog box is open, showing the 'Control (Transponder)' tab. The 'Target list' is set to 'Show'. The 'Voyage data' tab is also visible, showing 'Display - Symbol, Lines, CPA'. The 'Vessel specification for AIS' tab is also visible, showing 'Display - Text' and 'CPA/Threats/Alarms'. The 'FAST' (Fast AIS Information Recovery) feature is enabled, with a checkbox labeled 'Use "Fast AIS Information Recovery"'. The 'Symbol' section shows 'Outline' selected. The 'Lines' section shows 'Symbol outline' set to 2 pixels, 'Symbol outline (threats)' set to 4 pixels, 'Heading line' set to 2 pixels, 'COG line (dashed line)' set to 2 pixels, and 'Predictor time for COG line' set to 5 mins. The 'Display the Closest Point of Approach (CPA) for targets that are a threat' checkbox is also checked. A blue callout box points to the 'FAST' checkbox with the text: 'Targets can be colour coded and the default outline changed to suit situational awareness. FAST information recovery can be turned on and off as required'. The background chart shows the River Hamble area with various vessels and landmarks like 'ESSO MARINE TERMINAL' and 'OIL REFINERY'. A 'Vessel' information panel on the right shows details for a vessel at 50° 50'.991N, 001° 20'.46, including DR Mode, Heading, Speed, COG, and SOG.

SmarterTrack 2014 brings a host of new features

- AIS target labels with dynamic and static information can be configured

The screenshot displays the SmarterTrack 2014 software interface. The main window shows a nautical chart of Southampton Water, with various geographical features like 'ESSO MARINE TERMINAL', 'OIL PIPELINE', 'MARSH', and 'SOUTHAMPTON WATER'. A red 'ALARM' banner is visible at the top left. The 'AIS properties' dialog box is open, showing configuration options for AIS targets. The dialog has tabs for 'Control (Transponder)', 'Voyage data', and 'Vessel specification for AIS'. The 'Vessel specification for AIS' tab is active, showing options for 'Search and Rescue', 'Base stations', and 'Aids to Navigation'. The 'Vessel' information panel on the right shows details for a vessel named 'MT WHITCHALLENGER (Underway)' with coordinates 50° 52' 116N, 001° 22' 13W. The status bar at the bottom shows coordinates 50° 50' 704N, 001° 19' 756W, a distance of 2.351 Nm, and a range of 0.25 Nm. The system clock shows 10:33 on 22/10/2013.

AIS properties dialog box configuration:

- Automatic text overlap reduction:** ☒
- Vessels (Class A and Class B):**
 - MOVING vessels:**
 - ☒ Name, ☒ MMSI, ☒ Call Sign, ☒ Status, ☒ Vessel Type, ☒ Cargo, ☒ SOG, ☒ COG, ☒ Rate of turn, ☒ Heading, ☒ Position, ☒ Size, ☒ Destination, ☒ ETA, ☒ CPA
 - Text size: Medium
 - STATIONARY vessels:**
 - ☒ Name, ☒ MMSI, ☒ Call Sign, ☒ Status, ☒ Vessel Type, ☒ Cargo, ☒ SOG, ☒ COG, ☒ Rate of turn, ☒ Heading, ☒ Position, ☒ Size, ☒ Destination, ☒ ETA, ☒ CPA
 - Text size: Small
 - Threats:**
 - ☒ Name, ☒ MMSI, ☒ Call Sign, ☒ Status, ☒ Vessel Type, ☒ Cargo, ☒ SOG, ☒ COG, ☒ Rate of turn, ☒ Heading, ☒ Position, ☒ Size, ☒ Destination, ☒ ETA, ☒ CPA
 - Text size: Medium
- Search and Rescue:**
 - ☒ Name, ☒ MMSI, ☒ Call Sign, ☒ Status, ☒ SOG, ☒ COG, ☒ Position, ☒ Altitude
 - Text size: Medium
- Base stations:**
 - ☒ Name, ☒ MMSI, ☒ Position, ☒ Status
 - Text size: Small
- Aids to Navigation:**
 - ☒ Name, ☒ MMSI, ☒ Position, ☒ Status
 - Text size: Medium