

ECDIS

Colour Interpretation

Isolated Dangers vs. Shallow Contour

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Standard Display / 4 - Depth Shades

- 1: Shallow Contour: 5 m
- 2: Safety Contour: 10 m
- 3: Deep Contour: 15 m

Isolated Dangers: **OFF**

All water depth deeper than 15m are in this example Safe for Navigation. (4)

The screenshot displays the ECDIS interface with a chart showing depth contours. The contours are labeled 1, 2, 3, and 4, corresponding to the legend on the left. The chart also shows a vessel's position and heading. The right-hand panel contains various navigation parameters and settings.

Chart Number	Scale	Issue date	Last corr.	Format
aa2tds02	1: 750,000	09-2011	02-09-2011	ENC
aa4c1xms	1: 60,000	01-2008	02-01-2008	ENC
aa4c1xoo	1: 60,000	01-2008	02-01-2008	ENC
aa5c1ab1	1: 14,000	01-2008	02-01-2008	ENC
aa5c1ab2	1: 14,000	01-2008	02-01-2008	ENC
aa5c1cde	1: 14,000	01-2008	02-01-2008	ENC
aa5c1foo	1: 14,000	01-2008	02-01-2008	ENC
aa5c1hio	1: 14,000	01-2008	02-01-2008	ENC

Navigation Data:

- Position Dropped
- X-1 Overlay AIS ARPA
- *(INS) MASTER *
- CPA / TCPA
- Traff. separ. zone
- UTC: 09 - 12 - 07
- 13 : 05 : 03
- COG: 149.4°
- SOG: 0.5 kn
- HDG: 152.5°
- STW: -0.1 kn
- Sec: NONE
- gb400323 Autoload ON
- 1 : 50,000 Man. Corr.
- Predictor CHL RDV
- Source: DLOG1
- Water: 0.7 kn, 0.1 kn, 1.0 kn
- Bottom: 0.3 kn, 0.1 kn, 0.6 kn
- Vectors: COG, SPEED
- Depth in Metres: WGS-84
- STD Display: Event, 24 min
- Prim: 51° 03.834 N
- DGPS 1: 001° 26.108 E

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Isolated Dangers: **ON**

All water depth deeper than 15m are in this example Safe for Navigation. (4)

Isolated Dangers with a safe passing depth of less than 20 m are marked in the same „Shallow Contour“ colour!

The screenshot shows the ECDIS interface with a chart of a coastal area. The chart displays four depth shades: 1 (5m), 2 (10m), 3 (15m), and 4 (Safe for Navigation). Isolated dangers are marked with red circles and exclamation marks. The interface includes a right-hand panel with navigation data and a bottom panel with chart settings.

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In the examples the ECDIS depth contour is for the shallow contour (5m); for the safety contour (10m) and for the deep contour (15m). Due to the STANDARD chart display, isolated dangers are not displayed on the ENC, only those which are, according to the pre-defined safety contour (10 m) unsafe to pass over.

The top-mark for those is:



If the user is now selecting the function “Isolated dangers ON”, all Isolated dangers with a water depth in the range of 10 m (Safety contour) and 20 m are receiving the top-mark colour of the shallow contour, unless they are according to the safety contour safe to pass over: 

This is in my point of view misleading, because these depth are still safe for navigation and that in this case the assigned dark blue colour of the shallow contour is not correct. An effect might be a daily violation against the dark blue colour assignment (NO GO, do not enter or pass over).

The crew of my “example vessel” will in such a case daily pass over the dark blue colour of Isolated dangers (which are safe according to the ships draught) until they are making during the daily business the failure to enter the “real” shallow contour (shallow contour and isolated danger with equal colour).