

The ECDIS Revolution

Philip Wake, MSc FNI
Chief Executive, The Nautical Institute

IFSMA AGA, Halifax NS



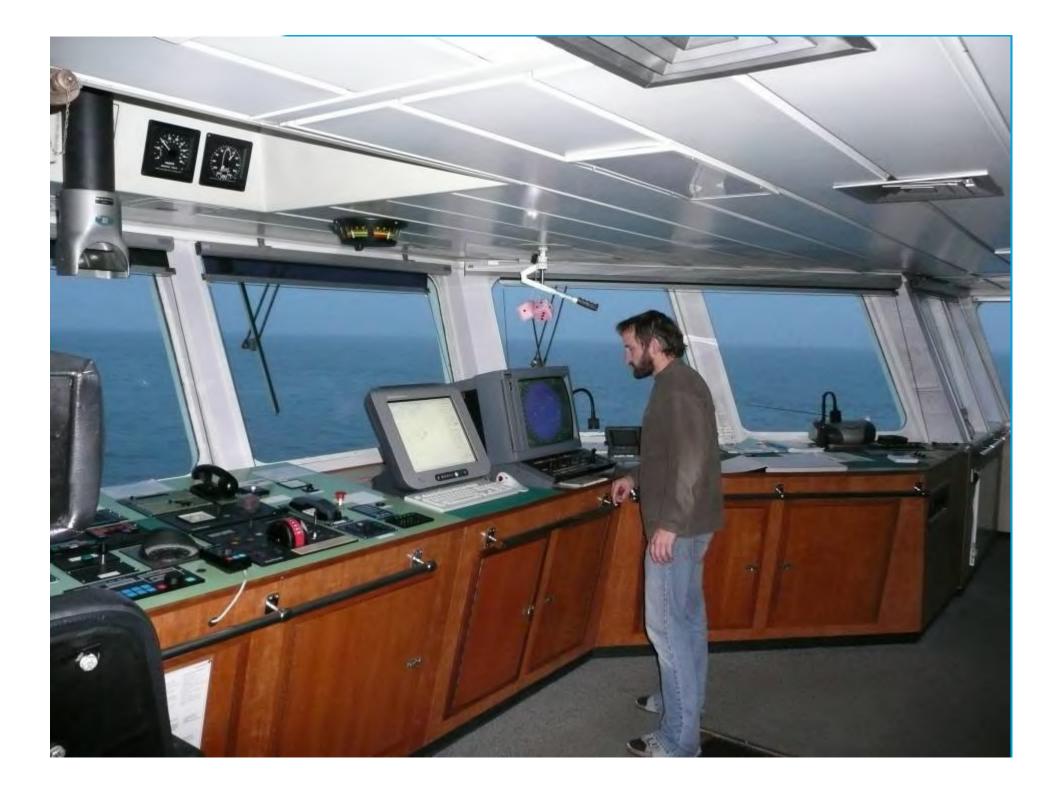
ECDIS Challenge

- Total change from using paper charts
- Transition poses a challenge for the industry
- Watchkeepers must remain vigilant and continuously monitor vessel's position



ECDIS Benefits

- Significant aid to navigation
- Not a substitute for good seamanship
- No replacement for a trained and experienced navigator
- Benefits and limitations must be understood





ECDIS v ECS

Approved ECDIS - Only ECDIS meets SOLAS Ch V (Type approved system, Official Data and Flag approved)

- Everything else is ECS for "Situational Awareness".
- Very difficult to tell them apart!
- The vast majority of ships are using ECS not ECDIS.



Ship Masters

- Be aware of restrictions and procedures
- Training and familiarisation
- Advise companies if level of training is inadequate



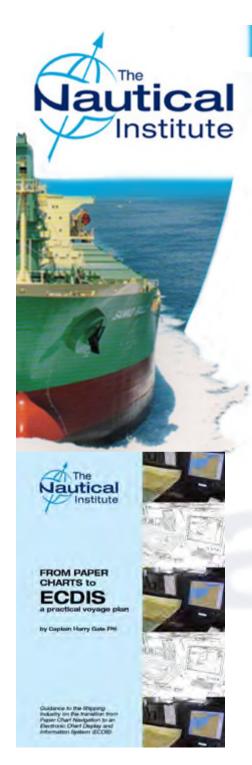
FAMILIARISATION CHECK LIST



ECDIS and POSITIONING

I INITIAL PREPARATION

1.1	Establish whether there are Bridge Instructions concerning the use of the equipment and ensure that these are followed	5.1.3, 5.2, 5.3, 6.2, 6.4.3, 7.1, 7.2, 7.3, 8.0, 8.1	W
1.2	Establish whether the equipment is a flag-approved ECDIS. If not, paper charts must be used as the primary charting system	5.1.3, 5.2, 5.3	W
1.3	Identify the primary ECDIS equipment and the facilities for back-up. If the back-up is a second ECDIS of a different type to that of the primary installation, then Sections 2 to 6 of this familiarisation checklist must be repeated for both systems	5,3	W
1.4	Establish whether emergency charts are carried as a final level of back-up. If so, determine their location and their suitability for the voyage.	8.6.1	M
1.5	Establish whether an emergency computer such as a laptop running ECS software is available. If so determine its whereabouts and how to switch on and access the ECS package.	8.6.1	M
1.6	Establish whether there is an on-board approved familiarisation training package for the equipment, whether as computer based training, an inbuilt training mode or as a book or digital image of a book (eg. PDF file). Use this before completing the check list items here	5.5, 10.1, 10.2	W



Paper chart to ECDIS

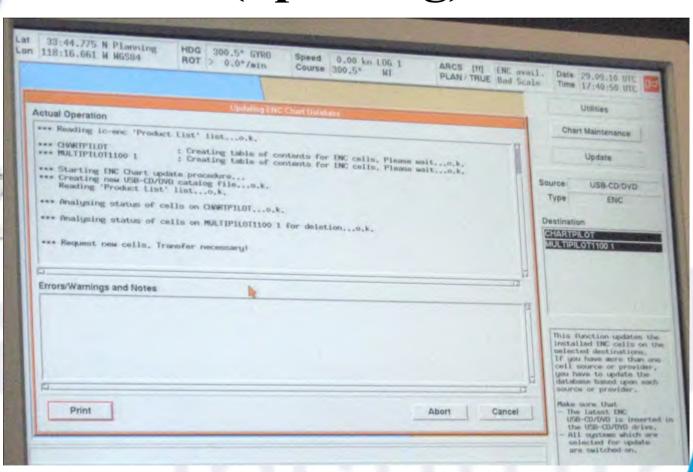
SGCG Quote: "Watch officers can step onto the bridge and real time data is there on the screen, ready to be interpreted. This is very convenient"

But





Chart Correcting (updating)





ECDIS

All of this technology will be of very little benefit in enhancing navigational safety if the watchkeeping officer is not fully trained and competent in its use.





Conclusions

- ECDIS reduces the navigational workload and produces real time positional information
- Take into account its different ways of navigating when implementing operational procedures
- Be alert and engaged in process, not just a monitor
- Ensure competence through assessment



Support of The Nautical Institute through membership and participation is very much appreciated!

Thank You

The Nautical Institute
202 Lambeth Road, London SE1 7LQ, UK
www.nautinst.org