



Navigation Analysis Suite



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Brookes Bell is a leading multi-disciplinary technical and scientific consultancy serving the marine and energy sectors.

As digitisation within the shipping industry becomes more advanced with a good proportion of the world fleet now required to have Electronic Chart Display Information System (ECDIS) and a Voyage Data Recorder (VDR), our expert Nautical Team of Master Mariners have enhanced their forensic analysis and assessment capability with the acquisition of Marine Accident Data Analysis Software (MADAS) across our global network.

MADAS allows for electronic data from multiple sources such as VDR, ECDIS and AIS to be merged simultaneously into a single screen video playback replay for accurate and detailed analysis.

We now have the capability of undertaking both routine as well as post incident VDR analysis of navigational situations. This service enables us to offer an expert review and appraisal of navigation analysis of the bridge team from the VDR recording. The output of our reports can be used for training purposes as well as assisting Owners in any casualty investigation leading to expert opinion in matters going to litigation.

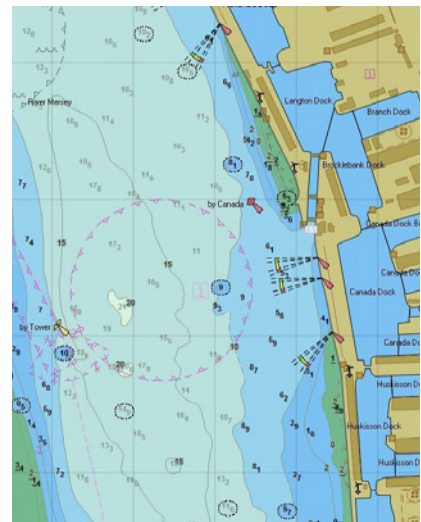
Our experienced Nautical Team have relevant seagoing experience with electronic chart systems and continue to provide expert opinion and evidence in the use of ECDIS, VDR and other forms of electronic data.

The Navigation Analysis Suite of services the Nautical Team are able to provide are:

- VDR analysis and replay in MADAS of collisions, groundings and other navigational incidents for use in litigation matters
- AIS animation and reconstructions

- Expert opinion of navigational aspects; ECDIS, Passage Planning, Bridge Resource Management, ISM and SMS
- Expert opinion on Ice Navigation
- Navigation Assessments – bespoke to the client's requirements, from a review of SMS procedures to an on board assessment of the bridge team's performance. We can also provide remote assessments using VDR and MADAS. We will provide a comprehensive report with our findings and recommendations
- MADAS – bridge team training – the versatility of MADAS allows us to produce accurate replays of a manoeuvre or an incident, to playback to the bridge team so that lessons can be learnt
- Support Owners, Ship Management, Charterers and the legal profession in VDR analysis and incident investigations

Our Nautical Team are supported by an industry-leading, worldwide network of naval architects, engineering consultants, metallurgists and scientists.



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