

Jrc Ecdis Test

U.S. Army Corps of Engineers Training Symposium for Surveying, Mapping, Remote Sensing and GIS
The Electronic Chart Digitizing the Future Digitizing the Future Scientific Information Bulletin
Electronic Chart Display and Information System (ECDIS) Test and Evaluation Bulletin - U.S. Coast Guard Academy Alumni Association
Maritime Information Review Electronic Chart Display and Information System (ECDIS) Test and Evaluation, Summary Report MTS '92, Global Ocean Partnership
The International Hydrographic Review Maritime Communications and Control International Hydrographic Bulletin
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provides summary information concerning the defense mapping agency dma digital data and related subjects and supplying the data to all components of the dept of defense federal agencies special program offices system developers and their contractors material is presented at an executive level to promote awareness of dma s product line services and ongoing activities includes existing products prototype products and special subjects photos and illustrations

this summary report describes four sea trials and one man in the loop simulator experiment conducted by the u s coast guard research and development center from 1990 to 1993 thoroughly test and evaluate the adequacy of the international maritime organization s performance standard for ecdis issues examined include the contribution to safety of navigation the effects of the navigation workload features and functions required during route monitoring and the contribution of integration with radar each of the five tests were designed to incorporate known methodology and advanced technology to thoroughly test the contributions that ecdis

might make to the operational practices on a ship's bridge as the experiments progressed the technology became more sophisticated with information being sought in more breadth and depth each experiment building on the findings of the previous was designed to ask more in-depth questions to gain more complete information this four year effort is one of the most comprehensive studies done on ECDIS performance there are several key findings produced by this body of work it was shown consistently that ECDIS can provide equivalent or greater safety than the paper chart and more traditional methods of navigation another key finding is that navigation workload is reduced allowing the mariner to concentrate on collision avoidance or other tasks of similar importance in the area of user interface design it was found that the mariner wanted an uncluttered display during route monitoring with more features immediately available if needed

sequences of small subunit *ss* and large subunit *ls* ribosomal rna genes *rdna* from the marine dinoflagellates *Alexandrium tamarense*, *A. catenella*, *A. fundyense*, *A. affine*, *A. minutum*, *A. lusitanicum* and *A. andersoni* were compared to assess the organisms relationships cultures represent isolates from north america western europe thailand japan australia and the ballast water of several cargo vessels and include both toxic and non toxic strains an emphasis was placed on the *A. tamarense*, *A. catenella*, *A. fundyense* species complex a group of morphotypically similar organisms found in many regions of the world two distinct *ssrRNA* genes termed the *a* gene and the *b* gene were found in a toxic *A. fundyense* isolated from eastern north america the *b* gene is considered to be a pseudogene a restriction fragment length polymorphism *rflp* assay developed to detect the *a* and *b* genes revealed five distinct groups of *Alexandrium* isolates three subdivide the *A. tamarense*, *A. catenella*, *A. fundyense* complex but do not correlate with morphospecies designations the two remaining groups are associated with cultures that clearly differ morphologically from the *A. tamarense*, *A. catenella*, *A. fundyense* group the fourth group consists of *A. affine* isolates and the fifth group is represented by *A. minutum*, *A. lusitanicum* and *A. andersoni* the *b* gene was only found in *A. tamarense*, *A. catenella*, *A. fundyense* but not in all members of this species complex the *b* gene is not uniformly distributed among global populations of *Alexandrium* all *A. tamarense*, *A. catenella*, *A. fundyense* isolates from north america harbor this gene but it has also been found in some *A. tamarense* from scattered locations in japan as well as in *A. tamarense* from the ballast water of one cargo vessel which was on a defined run from japan to australia the *b* gene may be endemic to north american populations of *A. tamarense*, *A. catenella*, *A. fundyense* it is possible that in the recent past north american *A. tamarense* were introduced to japanese waters and cysts of these organisms have been transported from japan to australia a subset of isolates examined using the *rflp* assay were also compared by cloning and sequencing a fragment of their *lsrdna* eight major classes of *lsrdna* sequences termed ribotypes were identified five ribotypes subdivide members of the *A. tamarense*, *A. catenella*, *A. fundyense* complex all isolates containing the *b* gene cluster as one ribotype the three remaining ribotypes are typified by 1 *A. affine*, 2 *A. minutum* and *A. lusitanicum* and 3 *A. andersoni* *lsrdnas* from *A. minutum* and *A. lusitanicum* are indistinguishable *A. minutum*, *A. lusitanicum*, *A. andersoni* may represent another *Alexandrium* species complex analogous to the *A. tamarense*, *A. catenella*, *A. fundyense* group an organisms ability to produce toxin appears to be correlated with its *lsrdna* phylogenetic lineage ribotypes ascribed by the *lsrdna* sequences are in complete agreement with and offer a finer scale resolution of groups defined by *ssrdna*

restriction patterns the ssrdna rflp groups and lsrdna ribotypes are useful species and population specific markers alexandrium tamarense catenella fundyense exist as genetically distinct strains populations not three genetically distinct species representatives collected from the same geographic region appear the most similar regardless of morphotype whereas those from geographically separated populations are more divergent even when the same morphospecies are compared contrary to this general pattern a tamarense catenella from japan were found to be exceptionally heterogeneous ballast water samples show that viable cysts resting spores of toxigenic a tamarense catenella are being discharged into australian ports from multiple genetically distinct source populations the rdna sequences were also used to test theories accounting for the evolution and global dispersal of a tamarense catenella fundyense results suggest a monophyletic radiation of these organisms from a common ancestor that included or gave rise to multiple morphotypes populations appear to have diverged as a result of vicariance geographic isolation the co occurrence of genetically distinct strains of these organisms is an indication of dispersal an example of this is seen in japan where an introduction of north american a tamarense appears likely determining the timing of dispersal events is problematic if based strictly on rdna sequence similarities since these molecules undergo change on a scale of millions of years

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