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Printed ENCs USA (NOAA)

1. Introduction

Hydrographic offices that make ENCs would like to use one production system and database for all their products: paper charts, raster charts, ENCs, etc. Such a consolidated production system is desirable to keep cost and manpower requirements low, and to keep all products synchronized.

Reaching this goal is difficult because it is hard to exactly reproduce a traditional paper chart from an S-57 database. Examples of problems include the placement of text; features that coincide; and items that are on paper charts but not in the S-57 database. Solutions emerging from companies making ENC production systems involve complicated additional software, and/or substantial extra attribution and its maintenance by the hydrographic offices.

To improve this situation, it has been proposed that the paper chart be redesigned, or a new paper chart be created and standards written. This "printed ENC" would be designed to be manufactured directly from an ENC while still providing a regulation-compliant printed product.

2. Status

The USA (NOAA) has completed 2 studies on the subject of printed ENCs:

- "A Comparison of ENC Plots with NOAA Paper Charts" prepared by USA (NOAA) cartographers, and
- "Printed ENC: An Analysis of Impediments to Printing Paper Charts Directly from IHO-Compliant ENCs" prepared by Guy McGarva of Laser Scan, Inc.

Both studies document issues that would need to be overcome in order to prepare a suitable paper chart directly from an ENC. Neither study was tasked with finding solutions to those issues. Electronic copies of the studies are available on request from Dave Enabnit@NOAA.gov.

No further work is being performed on this task at the present time.