

## High definition bathymetry production, distribution and updating.

Canadian Hydrographic Service is involved in the definition and experimentation of the next standard for high definition bathymetry(S-100). This new standard will enable Hydrographic offices to deliver bathymetry to a level of detail never seen before. Defining the standard is one thing, implementing the standard into production will be the challenge. Like traditional marine charts, those high definition bathymetry files need to be created, distributed and updated. In addition, the turn around time to accomplish all the steps involved, will need to be kept to a minimum. Many challenges need to be overcome in order to be efficient in that production mode. This paper discusses possible solutions to address some critical issues.

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### **BIO :**

Louis Maltais has a Bachelor degree in Geomatics Engineering from Laval University. He has worked with the Canadian Hydrographic Service since 1999. Louis has been involved in numerous research projects related to GPS and hydrography ranging from Real Time Kinematic data integration to multibeam seabed classification. Louis is currently working on numerous charting projects developing new techniques of chart production.