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Marc Journault
Manager, Marine Geomatic Division
Canadian Hydrographic Service
Maurice-Lamontagne Institute
850, route de la Mer, c.p. 1000
Mont-Joli, prov. Québec, Canada
marc.journault@dfo-mpo.gc.ca

R. Wade Ladner
Bathymetry Databases Division
US Naval Oceanographic Office
1002 Balch Blvd.
Stennis Space Center, MS 39529
rodney.ladner@navy.mil

TO: Barry Greenslade (TSMAD Chairman), Anthony Pharoh (TSMAD Secretary)

Subject: Status of S-102 and S-10x Proposals

Dear Barry and Tony;

As of TSAMD 18 in Ottawa there was a S-102 proposal for High Resolution Bathymetry presented by Mr. Ladner of the US Naval Oceanographic Office (NAVOCEANO) and a S-10x proposal presented by Mr. Journault of the Canadian Hydrographic Service (CHS) which also contained a high resolution bathymetry component. At the TSMAD meeting the two parties conferred and decided to meet and compare and contrast proposals.

On September 22 and 23 a meeting occurred at the Maurice Lamontagne Institute in Mont Joli, Quebec. After discussing requirements, reviewing each proposal in greater detail, discussions ensued on a way forward with an integrated proposal(s). It was determined that the proposals were actually not too disparate and progress could be made to harmonize them. CHS and NAVOCEANO are working together at this point to achieve the following goals:

- Revise Data models from S-102 to align more closely with S-100 and ISO-19129. There will be the addition of optional metadata to enable tiling for only rectangular grids.
- Separate the content from the encoding and to allow support of multiple encodings. Encodings for HDF5 and GeoTIFF will be provided as annexes, as well as, eventually, for JPEG2000.
- The S-10x proposal will be decomposed into different proposals, one for each gridded data type. The revised S-102 would be used as the standard for high resolution bathymetry.
- The coordinate reference system for the vertical datum will be defined in better detail.
- NAVOCEANO and CHS will confer on the consolidated models and draft proposal to TSMAD.

Both CHS and NAVOCEANO recommend TSMAD initiate the work on S-102 and S-10x by establishing the projects, but that the first task be an integrated proposal that harmonizes the work on both items. The target date for submission of a new harmonized and integrated proposal is TSMAD 20 (Spring of 2010).

Very Respectfully,

Marc Journault

R. Wade Ladner