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12 May 1997

Mr. Paul Bellemare,
Director, Atlantic Region, CHS
Bedford Institute of Oceanography,
P. O. Box 1006
DARTMOUTH, NS, B2Y 4A2

Dear Paul,

Last Monday I had the opportunity to participate on board CREED in underway trials of The *Moving Vessel Profiler (MVP)* manufactured by Brooke Ocean Technology. The ship did 6 or 8 casts while an AGC team was being trained for the use of this equipment.

The operation was flawless and we obtained a perfect sound velocity profile on every cast. The equipment worked well and the Computer User Interface was among the best I had ever seen. We should be all proud that such a fine development could be carried out here in our community through the cooperation of local industry and government.

MVP is a significant development which will further improve our capabilities to depict accurately the nature and characteristics of the sea floor. There were two outstanding technical problems when CHS implemented routine multi-beam surveys in 1992: Compensation for ship motions, and Correction for sound velocity variations. The first problem was solved with the development of the P05/MV (by Applied Analytics Inc. of Toronto, ON), while MVP is the tool to help us solve the second.

I understand from discussions with the ship's officers and hydrographers that MVP saves about half an hour per station (and it saves some wear and tear of CREED's engines). Using a conservative estimate of costs, this suggests a saving of \$2,000 per day and this suggests a 100% ROI in 50 operating days. Equally importantly, it is more likely to obtain more sound velocity profiles with MVP than was feasible with station casts. This should considerably improve the accuracy of our charts and bring us closer to the 1 cm goal.

MVP is an impressive engineering development and you can be pleased that CHS supported this CANADIAN FIRST.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Bosko Loncarevic, P. Eng.', written over a white background.

Bosko Loncarevic,
President, Pinetree Information Technology

cc. Mr. J. Goodyear, CHS
Mr. Arnold Furlong, BOT