

The Canadian Hydrographic Association
Association canadienne d'hydrographie



NEWSLETTER

*** June/August 1997 ***

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Canadian Hydrographic Association

Central Branch

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Central Branch Committees

Membership/Nominations/Elections

T. Herron, C. Gorski, J. Biggar, A. Koudys,
M. Johnston.

Lighthouse

T. Herron, C. Gorski, P. Travaglini, M. Johnston,
J. Weller.

Social Events

H₂O: J. Miles, B. Power, P. Travaglini.
BBQ: J. Miles, J. Biggar, C. Gorski, P. Travaglini,
A. Koudys.
AGM: T. Herron, J. Miles, P. Travaglini,
A. Leyzack, J. Biggar, A. Koudys.

International Members

T. Herron, J. Weller, L. Robbins.

NewsLetter/Web site

J. Weller, M. Johnston, C. Gorski, L. Robbins,
K. Weaver.

Seminar

C. Gorski.

Wade Essay Award

P. Travaglini, A. Leyzack.

Heritage Launch

A. Leyzack, W. Warrender, J. Dixon, B. Power,
H. Duller.

Printed on 50% recycled paper.

TENACIOUS. The Australians are getting excited about their new purpose-built, ocean survey ships, though they seem to be suffering some slight delays and like our old survey ship HMNZS MONOWAI,

have a look and buy your tickets. If you'd like more information, please call John at (905) 336-4419. Tickets are now on sale at \$2. or three for \$5. Sales are already brisk, so don't delay.

Message from the National President

As the summer is waning, thoughts drift (pun intended) to the onset of winter.

I have been busy in the Far East this summer and returned to find a message from Barry Lusk, who is the Manager for the Canadian Hydrographic Association's Student Awards program. It is a great pleasure for me to announce, on behalf of Barry, that the winner of our \$2,000. Student Award for 1997 is Joseph Osgood Vogler of the University of Calgary, Alberta. Joseph is enrolled in the Geomatic Engineering course and is now entering his second year.

Barry has very kindly written an article for this NewsLetter (see page 5), giving something of the history of this Award and listing the students who have received it since it was instituted in 1992.

Thank you, Barry, for all the work you have done for the CHA, and for managing the Student Award so successfully; it has flourished under your care.

On another subject, while in the Far East I had time to muse on the term "geomatics" and where hydrography really fits in. Perhaps the time has come to look into a catch phrase for hydrography, much like those for diving etc. I leave you with some suggestions and look forward to hearing more.

... Hydrographers have their ups and downs!

... Hydrographers do it deeper!

... Changes in Longitudes, changes in Latitudes, charts must ever change!

— Ken McMillan.

Notes from the Branch Vice-President

I do hope everyone has been enjoying the summer. After a brief time in the office, I am now off to the Arctic for six weeks aboard the CCGS HENRY LARSEN. This newsletter will hopefully bring you up to date with what has been happening since our last meeting.

Enclosed with this NewsLetter is your copy of Edition No. 9, Summer 1997, of the Canadian Hydrographic Service's magazine *Contour*. This brings you news of the latest developments in the electronic nautical charting world, and includes a thoughtful overview by Central Branch Member Brent Beale.

Earl Brown, Director of Hydrography, Central and Arctic Region of CHS, and Central Branch member, retired at the end of May. Earl was one of the original founding members of CHA and has been very active in CHA events through the years. We wish Earl and his family all the best in his retirement.

The crew of our Heritage Launch *Surveyor* took part in Aquafest at Hamilton in July. The launch is now on display at the Canadian National Exhibition as part of the Department of Fisheries & Oceans exhibit.

The Annual Central Branch BBQ will be held September 20, hosted by Sean and Lynn Hinds. (See the full-page ad on Page 3 for more information.)

Our first fall meeting will be at 7 pm on October 1 at Brian Power's home: 2431 Cavendish Drive, Burlington. There'll be a guest speaker & traditional refreshments.

The 1997 Central Branch AGM & Dinner will be held on Thursday December 11 [**note the new date**] at our regular location: the Mimico Cruising Club, Etobicoke. Many thanks to the Club for allowing us to use their lovely facilities again this year.

Peter Knight has moved to New Zealand to teach hydrographic surveying at the University of Otago. Peter will now be an International Member. We wish Peter and his family all the best. Keep in touch, Peter!

— Terese Herron.

Terese submitted this column by radio from the CCGS Henry Larsen, which at the time was on ice-escort duty at 76°18'N, 104°05'W.

From the NewsLetter Committee:

This summer edition of our newsletter brings you news from our far-flung members, farther-flung than usual, with items from our V-P in the far north of Canada, Larry Robbins (including news from Gary Chisholm's recent trip to Singapore) and Peter Knight in the far south of New Zealand, Bruce Calderbank in Indonesia, Barry Lusk and Rob Hare in Victoria BC, and Sean Hinds, Brian Power and Andrew Leyzack writing from the far reaches of our Burlington offices. Thank you all; without your help, this NewsLetter would not happen.

.....

Mark this on your calendar! Thursday 11 December is the Annual General Dinner Meeting of Central Branch. This is your opportunity to make your voice heard, to keep up with your fellow members, and to have an interesting and tasty evening out. As in past years, this will be at the Mimico Cruising Club.

News from the other Branches

Frank Hall, Vice-President of Newfoundland Branch, recently retired from his position with Memorial University and is on an extended vacation so we are unable to include any news of his Branch's activities.

Section du Québec, under the guiding hand of Vice-President Bernard Labrecque, and Captain Vancouver Branch, with V-P George Pugach, seem to be going strong but were not able to get their news to us in time for this issue. We hope to have news from their Branches for our fall NewsLetter, to be published in early October.

Joel Box, Vice-President of Ottawa Branch, has been away on field duties and says there has been little in the way of CHA activities this summer but plans to have an interesting schedule in place again this fall

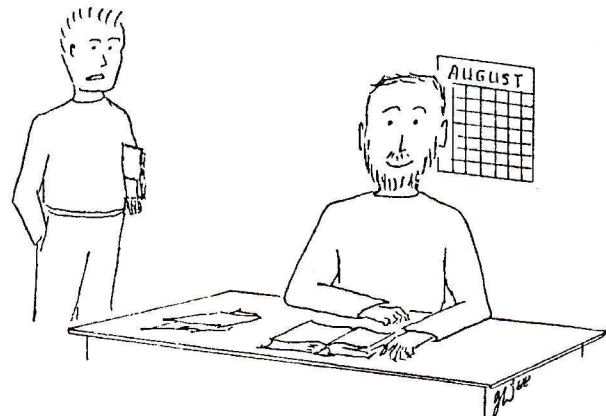
Bruce Calderbank, V-P of Prairie Schooner Branch, was just leaving for a business trip to Indonesia when we reached him. His news item later arrived from his posting in Northern Sumatra, where he is conducting a seismic survey. He is the Navigation Quality Control Supervisor for an offshore 3D survey.

Bruce says most of their members are also out of town, busy with field survey assignments, and thus have trouble arranging to be in one place long enough to plan CHA meetings. May it ever be thus! Though there are fond memories of CHA meetings held in the Rose and Crown in past years.

Central Branch (yes, that's us) V-P Terese Herron was in the office briefly between Arctic assignments and managed to shepherd our Journal Lighthouse, Edition 55, through its final publication and printing stages. It came back from press and was mailed out in late July. If

"Too bad we're stuck in the office ...

... I bet you miss being out on a boat all summer."



you've not received your copy yet (or possibly a gentle reminder about your annual dues...) please let us know.

Central Branch Member Brent Beale has been on a one-year assignment with Nautical Data International in St. John's Newfoundland since September 1996. Brent recently accepted a one-year extension to this acting assignment. All the best, Brent.

Rob Hare, V-P of Pacific Branch, sent us this report:

Pacific Branch has been quiet since the CHA National AGM back in April. This is partly due to many of the executive members being in the field, on leave, or heavily involved in planning for the Canadian Hydrographic Conference, to be held in Victoria next year. [Make sure you have this on your calendar. Ed]

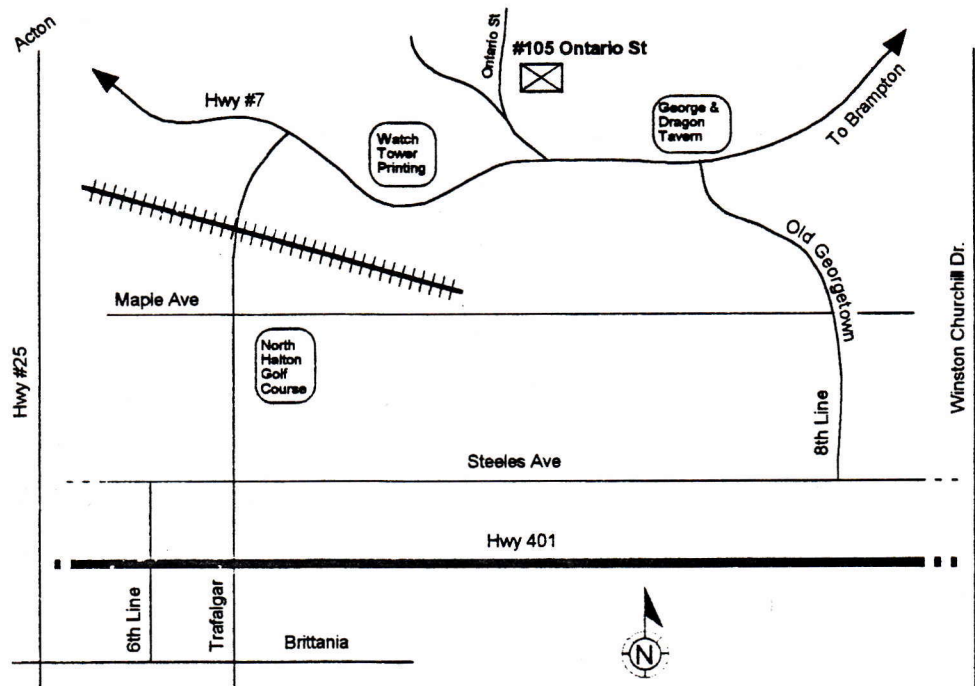
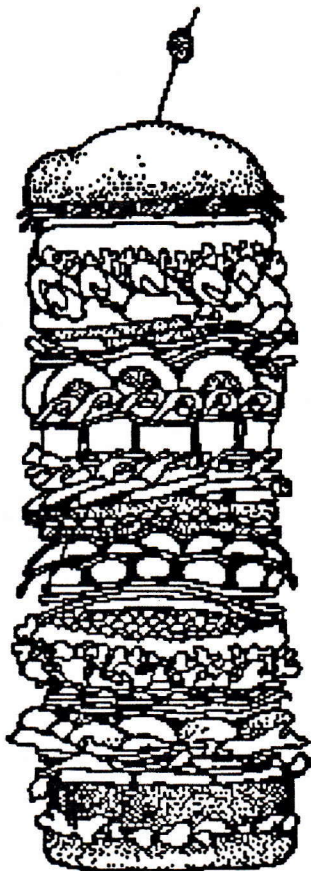
Pacific Branch will be hosting a GPS workshop: "GPS and augmented GPS for hydrography and marine navigation - future challenges and opportunities" with a panel of experts in GPS, GLONASS and various forms of augmentation, including Dr. Lachapelle and Dr. Cannon from the University of Calgary. This workshop will take place the day prior to the conference and will be followed by an evening social event at the Maritime Museum of British Columbia. CHA Pilsner glasses, 20 oz. size, are being made for this event, and we hope to have some left over for sale after the conference.

We hope to have a summer BBQ at some point, but no firm date has been set as yet. Things should return to normal come September, when we plan to have several luncheon seminars, the annual CHA Photo contest, a home-made wine and beer tasting event, and the jointly-hosted Canadian Institute of Geomatics/CHA BBBBB (Beer, Beef, Bun and Bellowing Bash).

All CHA members, families and friend are invited to attend the
Canadian Hydrographic Association's
Central Branch

ANNUAL BARBECUE

Saturday, September 20, 1997
1:00 p.m. at the Hinds residence



Hot dogs and hamburgers with all the
fixings, plus beer, wine and pop
will be provided.

Please bring an appetizer, munchies,
salad or dessert and a lawn chair.

Please RSVP Jacqueline Miles at "milesj@dfo-mpo.gc.ca" by Sept. 16.



The International Column

I send you greetings from a cold, wet and windy New Zealand. Fortunately we are in winter lie-up and not trying to survey through it all though our next surveys start in a few weeks time down at the south west corner of the country. Reading of 'El Nino' and the 'worst weather in 100 years' that may be associated with it is not the most encouraging news as we complete our desk studies!

These surveys will be the first conducted fully under New Zealand's new arrangements whereby the 'funder' and the 'provider' arrangements have been split, with a relatively new organisation 'Land Information New Zealand (LINZ)' fulfilling the former function and the RNZN Hydrographic Service being the principal supplier of hydrographic services.

I hear that another successful multibeam training course was recently held at the University of New Brunswick with good attendance from a number of countries representing a wide spread of experience. My informant tells me that the doubts, difficulties and mental upsets being experienced by governmental hydrographic agencies are also international in nature with thrusts towards privatizing charting surveys and services seemingly the norm. Since a number of our CHA members are from the private sector, perhaps I will just leave the comment to lie at that!

Planning seems to be well underway for the Third Australasian Hydrographic Symposium, organised by the Australasian Branch of The Hydrographic Society. It is to be held in Fremantle, Western Australia, from 30 November to 3 December this year and will be followed by a multibeam course sponsored by the University of New Brunswick. The glossies are out and the subjects for each session appear to be relevant to this modern hydrographic world so it should be an interesting conference. The Australasian Branch of THS has received a boost in that the Society's AGM will be held at the symposium and this is a good indication of the Society's support for the local branch.

The HYDRO magazine is now into its third edition and going strong. I particularly enjoy Steve Ritchie's articles on historical themes.

Gary Chisholm writes to say that he was in Singapore, during May, as his company Trimble had a booth at the first SE Asian Oceanology Conference. This show is normally held every second year at Brighton UK, and 1997 marked the first time in SE Asia. Although not as big as the UK show, this venue pulled in about 1,500 Asian clients, prospects and exhibitors.

During the Singapore show, Gary caught up with CHA National President Ken McMillan, who had just flown

in to join a vessel about to undertake a route survey. Ken was looking keen – but then again he is not unfamiliar with the long haul from Burlington to Singapore! Unfortunately Gary says he missed the IHO conference at Monaco and thus the visit that Prince Rainer made to the Trimble booth there.

We are delighted to welcome Peter Knight to New Zealand; he has taken up a position in the Surveying Department of Otago University. No doubt the weather down there at present is reminding him of home (did you bring your snow shoes, Peter?!) We are looking forward to getting together later in the year when my ship is due to visit Dunedin. Peter, although now an International Member, has forwarded a contribution which appears in the OUTHOUSE column on the back page. Thank you for that, Peter. We need more contributions from International members!

Keep smiling! Keep the world guessing about what you have been up to!

– Larry Robbins [Commander, RNZN].

Speeder to traffic cop: "I didn't think you guys could drive that fast with one hand holding a doughnut."

– quote in Globe and Mail, Toronto, August 9, 1997

(Me? I'm staying home until it's all over.)

MEAN TIME FOR GPS

The year 2000 could arrive somewhat prematurely for navigation systems relying upon GPS satellites to pinpoint positions, say receiver manufacturers, GEC Plessey.

According to the company, internal clocks of GPS receivers are set as if time began at midnight on 5 January 1980, and are due to reset themselves after 20 years. The binary counters that were used at the time to keep systems cheap and simple counted 20 years as 2^{10} weeks, or 7168 days. Thus as far as the receivers are concerned, the next century will occur at midnight on 21 August 1999—more than 130 days early.

GEC Plessey say that it is hard to predict how individual brands of receiver will be affected by the new millennium rollover, since each manufacturer uses its own software. Fixing things will be especially difficult in older receivers that store their programs in custom-built chips, the company adds.

– The Hydrographic Journal #82, October 1996

Earl Brown moves on

By Sean Hinds

Many CHA members were in the crowd on hand to celebrate with Earl and Aline Brown the occasion of Earl's retirement. It was a great evening event held amongst manicured gardens and ballroom elegance on the shores of Lake Ontario. The grandeur of the evening was very fitting considering the substantial contribution that Earl has made over his 37 years of work with the CHS.

CHA members took to the podium to remind people of all the support that Earl had given to the CHA, and Central Branch in particular. Earl was Vice-President of Central Branch for two years running in 1969 and 1970 and later went on to serve as National President in 1975. Earl has been an active Central Branch Member and frequently participates in our evening seminars, the annual H₂O Bonspiel, and our Annual General Meetings.

In recent years, Earl has been an effective counsel to our Branch executive as he shared his vast experience and knowledge. His advice was always thoughtful and showed a clear vision of the CHA mandate combined with an empathy for the stresses that are placed on a volunteer organization. Earl has been a major promoter of CHA both nationally and internationally.

Earl always supported any opportunity for CHS and CHA to partner together at public events. None of these stand out more than when the CHA/CB Heritage Launch, *Surveyor*, was able to participate with CHS at the Survey and Mapping Conference in 1993, and at subsequent events held at Discovery Harbour, Penetanguishene. On all these occasions CHS and CHA shone in a light of mutual respect for the traditions and professionalism found in the art of hydrography.

As a gift to commemorate his retirement, the CHA was proud to present Earl with a scale model of the launch *Surveyor*. This model was constructed by one of our own talented Branch members, also a hearty crew member of *Surveyor*, Heimo Duller. Heimo, who seems to be gifted with a 40-hour day, constructed this miniature vessel, along with the finest of details including oars, signaling gun, leadline, pelorus and telescope.

Along with the scale model, Earl was also presented with his own tarpot hat (also prepared by Heimo) that was traditional headdress for Provincial Marine sailors in 1793. As Earl took any chance he could get to hoist an oar and row with the crew of the heritage launch, this tarpot hat now grants him official status as a crew member of *Surveyor*.

We extend our best wishes to Earl and Aline for a long and happy retirement and we look forward to seeing a relaxed and tanned Earl out at our future meetings.

CHA Student Award

By Barry Lusk

The recent issue of our journal Lighthouse describes the Canadian Hydrographic Association Award for deserving students, and we felt some background might be helpful and interesting for CHA Members.

This Award was created from funds put together in 1987 to 1989, during the Presidency of Barry M. Lusk. These funds were acquired from various sources during his administration, and the total value of the continuing investment is \$30,000.

In 1992, the year the award was created, the above sum was placed in a 5-year Guaranteed Investment Certificate that returned to the Association about \$2,300 per year. Since that time, the award of \$2,000 has been given to five different students from various schools across the country. The students that have received the award are:

- 1993: Darren Colford
College of Geographic Sciences, Nova Scotia.
- 1994: Heather J. Langill
College of Geographic Sciences, Nova Scotia.
- 1995: David Edwin F. Scovill
University of Calgary, Alberta.
- 1996: Jean-François Olivier
University of Laval, Quebec.
- 1997: Joseph Osgood Vogler
University of Calgary, Alberta.

As manager of this award, I correspond with 25 Universities and Technical Colleges in almost every province of Canada. Each year in January, application forms and posters are sent to these schools with a request that they be distributed to qualified students but participation in the award has not generated the kind of interest that I had hoped. Most years we receive about 25 applications but this past year we had only six. Next year I will include in my mail-out a request for a more active effort on the part of each school's award department. Maybe that will do some good. Perhaps you as members of the CHA or interested parents may help me in attracting more applications.

This year was the last of the 5-year term for the invested funds. The money was returned to me and reinvested in what I think will continue to return sufficient funds to finance this award well into the next millennium.

If you would like more information on the Award or perhaps wish a list of the schools that are in the programme, please don't hesitate to write to me:

Barry M. Lusk, Manager, Academic Awards
4719 Amblewood Drive
Victoria BC V8Y 2S2
Telephone (250) 658-1836.

Heritage Launch *Surveyor* at Aquafest '97

by Brian Power and Andrew Leyzack

Aquafest is Hamilton's week long waterfront festival which ran from July 11 - 20. This year the festivities commenced with a grand encampment where a large group of re-enactors setup their tents and wares along the western shores of Burlington Bay.

With cannons roaring and gun boats assaulting the beach, the re-enactors recreated the burning of the Queen's Head Inn by Americans during the war of 1812.

The launch *Surveyor* and her crew were victorious that weekend, sailing under the American stars and stripes.

HMS Bounty made an appearance on the weekend and *Surveyor* was required to escort her safely across the bay. It was one great photo opportunity but we had all left our cameras back in our tents!



HMS Bounty alongside at Hamilton

Most of *Surveyor's* crew were among the 135 re-enactors who camped out with period equipment for the entire weekend. The heat wave that weekend was oppressive but the crew found relief while under sail or carousing at the Queen's Head Tavern, whose unbiased proprietor supplied cold beer to both the British and American troops.

Heimo Duller and Leigh Duller-Morrison cooked a traditional meal over an open fire. The preparations started Friday night and most of the next morning with everyone lending a helping hand to keep the fire burning. Before setting sail for the afternoon battle we all enjoyed a hardy camp meal of pea soup, fresh baked bread, cheese and various liquid refreshments.

The brigantine *St. Lawrence II*, named after the British ship-of-the-line which kept the American Navy shut up in Lake Ontario during the campaigns of 1812-13, sails out of Kingston, Ontario. She is the oldest of

three sail training ships based on the Canadian side of Lake Ontario. *St. Lawrence II*, *Pathfinder* and *Playfair* are all members of the Canadian Sail Training Association. In fact *Surveyor's* present coxswain spent some time before the mast in these ships.



St. Lawrence II taking Surveyor in tow

As in the case of many of these events, the larger sailing ships, especially square-rigged vessels, are most likely to steam into port. The *St. Lawrence II*, however, took every opportunity to make way under sail. Hats off to her captain and crew for their good seamanship and ship-handling in close quarters.

Surveyor's weekend ended with a leisurely hour-long sail down the harbour to her summer berth at CCIW.



The leisurely sail home

On arriving in New Zealand

by Peter Knight



Peter Knight, until recently a field hydrographer with Central and Arctic Region of the Canadian Hydrographic Service, has accepted a position with the Department of Surveying at the University of Otago.

Many of us must have experienced the delight of working out of a quiet harbour in pleasant weather. We share the privilege of those retired from the sea, and perhaps also the surreptitious enjoyments of the less legitimate loafers, who might find themselves loitering on a wharf in the clear, warm, winter sun.

Such were my thoughts as I approached the R.V. MUNIDA the 15-metre Coastal Trawler owned by the University of Otago, and run by the Department of Marine Science. I was there to have a look at the facilities and equipment, and to be shown around the harbour by Chris Spiers, 'Master of the Munida', a fitting title for the ex-fishing captain, now self-taught marine scientist and educator.

The Munida's deck hand was out with flu, but Chris, in a few deft steps, let go the lines and brought the Munida on a course outbound, up the shipping channel, pushing the tide past groups of pilings (red on the right leaving—yes it's the opposite down here) toward Wellers Rock — the landing place of the early immigrants — Taiaroa Head, and the open ocean beyond.

Taiaroa Head is home to the only known Albatross colony to make its home on a mainland shore, their principal colonies being on sub-Antarctic islands. I was treated to my first view of these very large seabirds, though I will have to wait longer to see one on the wing, the sight of a number of white blobs on the hillside a half a mile distant was testament enough to their size.

With Taiaroa Head in our wake, Chris's talk about stabilizers began to take on new meaning as the Pacific swell took hold of the bright Munida, now no more than a speck herself in the vista of sky and ocean.

I don't think we realize how constricted a view of the world we regularly content ourselves with until we view a coastline stretching before us into the hazy distance. Particularly when that coastline has an unexplored quality to ourselves, we hasten to shake off our narrower vision, glad of the opportunity to count ourselves, once again, with the whales, the albatross and other creatures of great range.

Openings available

We're glad to include this note as a service to members:

May I ask your help? I am a recruiter, seeking several hydrographic surveyors. My client is an American company, but the assignments are in the Middle East.

The need is immediate. Do you know anyone who might be interested? I would appreciate any suggestions you may have as to how I might find suitable candidates. Thank you in advance for your kind assistance.

*Fair Winds,
Steven Salamon.*

If you are interested, please contact:

CRS
1053 Vista View Rd.
Suite 100
Cleveland, GA 30528
USA

Phone: 706-219-1963
Fax: 706-219-1831
e-mail: stevesal@mindspring.com

Knudsen Engineering Ltd. is pleased to announce the latest addition to their 320 series of echosounders. The new 320B/R rackmount version of the 320B is a deep-water system with 10Kw transmit capability for full ocean depth sounding to 10,000 metres. The Scripps Institution of Oceanography, in California, has recently purchased their third 320B/R for use on their research vessels.

Now in use in more than 17 countries world-wide, Knudsen Engineering reports multiple 320M orders from the international dredging company Boskalis. Recent follow-on orders for seven additional 320M units for the Canadian Hydrographic Service's Central and Arctic Region move Knudsen equipment towards the goal of setting the standard for hydrographic survey sounders in Canada.

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