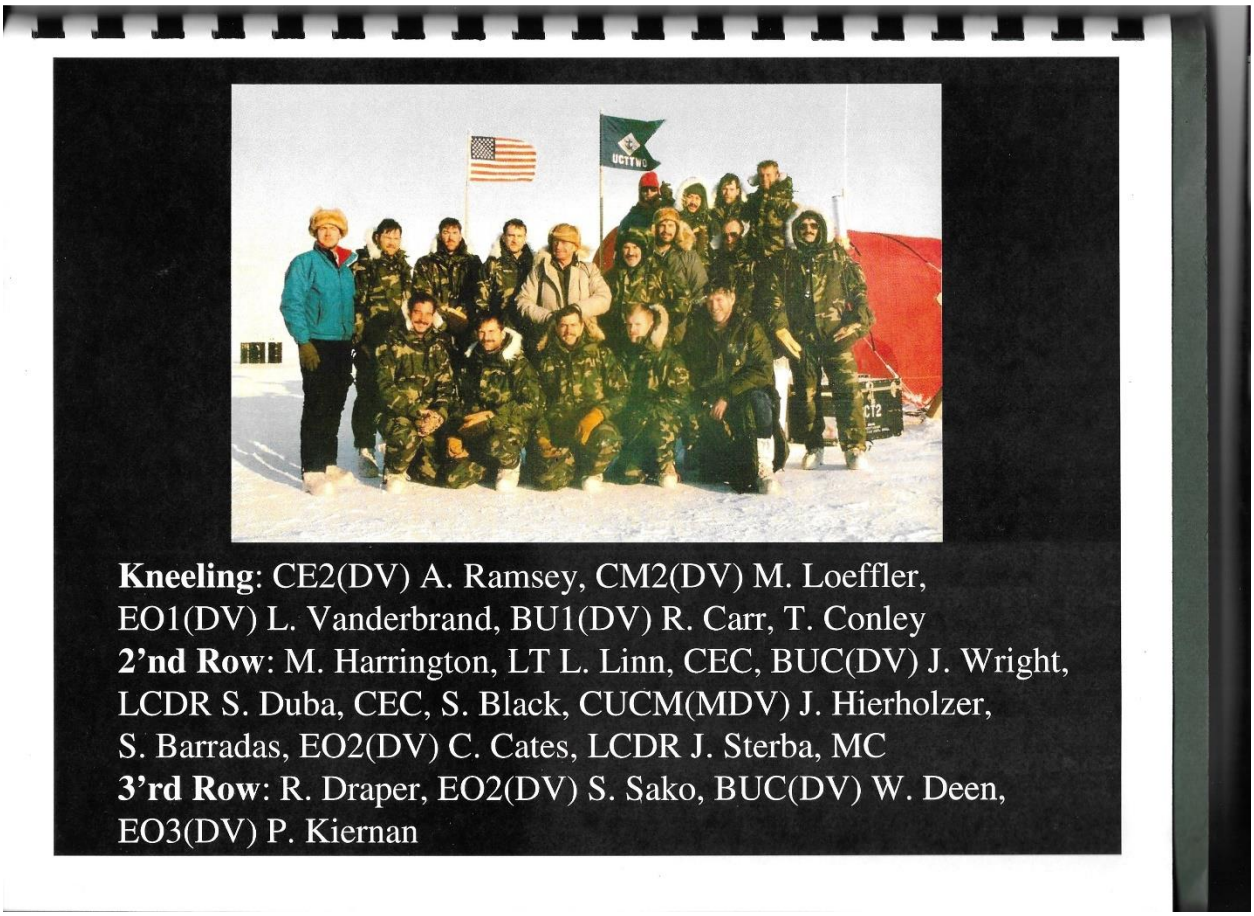
**Arctic TOA**

From early in the '70's, UCT Two had been assisting the Arctic Submarine Lab with support in the Arctic. Early support typically involved the inspection, maintenance and repair of installed sensor systems. Logistic support for these operations was generally supplied "by others," typically a US Coast Guard Icebreaker and contractors from the Polar Research Lab and the University of Washington. But as National interest in the Arctic grew, UCT involvement in the program also grew into participation in Arctic ICE Exercises. The continuing engagement in the Arctic eventually resulted in the development of an Arctic Table of Allowance (TOA) (camp support and operational tool kits) for independent operations by the UCT's in the Arctic environment.

New tools had to be acquired to work under the ice and the UCT equipment had to be improved to function safely and reliably in Arctic conditions and independently in the event of conflicts. A program was recommended to OPNAV (N4) for development of a full Arctic Table of Allowance to both address operational deficiencies as well as satisfying the logistic requirements for independent UCT operations on the ice. It was approved and a team from both UCTs, The Naval Construction Training Center and NCEL performed the research, development, test and evaluation leading to the operational capability for independent Arctic operations. Over the course of several years, tools, berthing, messing, safety, mobility were all analyzed with solutions transitioned into a useable TOA. Tests were conducted in Port Hueneme, CA as well as Lake Pend Oreille, ID in the winter. The complete system was deployed for the first time in the Arctic, north of Greenland in the spring of 1989.

LCDR Duba, LCDR Larry Lynn from NAVFAC, a Diving Medical Officer from NEDU, 10 Underwater Construction Technicians from UCT TWO and 10 civilian engineers from CEL successfully erected, subsisted, and operated independently from our remote base camp, performing tests on equipment, clothing, etc. for use in the Arctic, and conducting diving operations below the icepack. That exercise lasted for about two and half weeks utilizing the prototype TOA in conjunction with the annual SPAWAR ICEX exercise, establishing a new mission capability for the UCT's. This was also one of the, or possibly the first operational deployment of the new self-contained Transportable Recompression Chamber being developed by NAVSEA.

On April 18, 1990 the new TOA was put to the final test as a detachment of Seabees and NCEL technicians were flown by C-130 with the TOA to Ice Camp ACE (Lat 82˚ 30'N, Long 19˚ 40'W) for full validation. The TOA passed all requirements with the detachment safely operating and bedded down within the first day of arrival; validation of independent capabilities.



**Kneeling**: CE2(DV) A. Ramsey, CM2(DV) M. Loeffler, EO1(DV) L. Vanderbrand, BU1(DV) R. Carr, T. Conley
**2'nd Row**: M. Harrington, LT L. Linn, CEC, BUC(DV) J. Wright, LCDR S. Duba, CEC, S. Black, CUCM(MDV) J. Hierholzer, S. Barradas, EO2(DV) C. Cates, LCDR J. Sterba, MC
**3'rd Row**: R. Draper, EO2(DV) S. Sako, BUC(DV) W. Deen, EO3(DV) P. Kiernan

1989 Team

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