



SPECIAL PRESENTATION



5th Annual MTS Manned Submersible Program UNDERWATER INTERVENTION 2008

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Deep Ocean under ice operations of the MIR submersibles on the North Pole

At August 2nd 2007 two deep dives of the MIR-1 and MIR-2 submersibles in the point of Geographic North Pole on 4300 meters depth were provided. The dives were done to narrow free water hole (100 m x 50 m) in entire ice cover of 2-2,5 m thick. The expedition was provided by the nuclear icebreaker “Rossia”, which broken ice to pave the way for r/v “Akademik Fedorov” – support vessel of the MIRs in this operations. The submersibles were located in the hold of r/v “Akademik Fedorov”. Hydroacoustical means like LBL and USBL navigation systems, special directional systems for the searching of the lead were used to provide the safety of the dives. The methods of the dives under thick ice and searching operations to provide the accent of the submersibles in narrow free water hole in ice dome are described in the paper.



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