

North American Collaboration with Helzel WERA for Improved HF Radar Systems

Northern Radar Inc of St. John's NL and **ASL Environmental Sciences Inc.** of Victoria BC and **Helzel Messtechnik GmbH** of Germany, have recently entered into a Memorandum of Understanding (MOU). The three companies have come together to collaborate in the marketing, sales, design, manufacturing, installation, maintenance, and operation of oceanographic high frequency radar systems for non-military applications.

This collaboration has led to the development of the “**WERA NorthernRadar**” system – an updated and enhanced version of the “Helzel WERA” HF radar system. Northern Radar is supplying the HF Radar antenna systems, cable, filters and transmit modules. Northern Radar can also add software for iceberg detection and civil ship detection and tracking. Helzel is responsible for the HFR signal generation and processing core modules and system control software, real-time processing software and installation support and personnel training. ASL is responsible for sales and marketing of this system in North America, and installation and maintenance of the systems in western North America, while Northern Radar will cover eastern North America. ASL will also be developing application software including enhanced real-time data access and integrated numerical modeling modules in collaboration with Northern Radar and Helzel.

The **WERA NorthernRadar** is an Oceanographic HF Radar providing simultaneous measurement of surface currents maps, ocean waves parameters and maps and wind direction (wind speed under development). These measured data are available over long distances (more than 200 km) and large areas with good temporal resolution (complete data set within less than 10 minutes) and with high spatial resolution (down to 250 m).