



**NRL BAA Announcement
#53-15-01**

HIGH FREQUENCY RADAR

The Systems Section of the Advanced Radar Branch of the Naval Research Laboratory (NRL) conducts research and development in concepts and techniques for using high frequency (3 MHz to 30 MHz) radar to meet U.S. Navy mission requirements. Focus is on high frequency electromagnetic wave propagation and scattering (sky-wave and surface wave), radar system performance forecasting, radar system testing, radar data transfer, signal processing methodologies, spread Doppler clutter mitigation and use of the radar return to classify targets. Additional information on this new type of radar is available in Chapter 20 of the "Radar Handbook", edited by M. I. Skolnik, McGraw-Hill, 2008 and in "Applications of high-frequency radar," Radio Science, Vol. 33, No. 4, Pages 1045-1054, July-August 1998.

The Advanced Radar Branch is interested in receiving proposals for research related to these research interests. Address White Papers (WP) to HFradarWPs@radar.nrl.navy.mil. Allow one month before requesting confirmation of receipt of WP, if confirmation is desired. Substantive contact should not take place prior to evaluation of a WP by NRL. If necessary, NRL will initiate substantive contact.