

LIST OF REFERENCES

- American Radio Repeater League (ARRL), The ARRL Repeater Directory, 1990-1991 ed., p. 34, p. 37.
- Chadwick, R.B., Profiler /Satellite Interference Analysis. NOAA Technical Memorandum ERL ESG-24, U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Sciences Group, Boulder, CO, February.
- Chadwick, R. B., SARSAT Interference Potential for Alaska Profiler Network, Profiler Program Office, Environmental Research Laboratories, May 24, 1990.
- FAS Chairman, "Wind Profiler Radar," IRAC Doc. 26789/1-4.16/2.3.2, April 4, 1990.
- Federal Communications Commission, Title 47 Code of Federal Regulations. Telecommunications. Part 80 to End, Office of the Federal Register, National Archives and Records Administrations, Revised as of October 1, 1990.
- Federal Communications Commission 1255, SEE GENERAL Doc. 9056, March 5, 1990.
- Hudson, E.F., UNISYS, "Bandwidth," Memorandum To: Dr. Hans Richner, Atmospheric Physics ETH (LAPETH,) Zurich, Switzerland, March 31, 1990.
- May, P.T., Strauch, R.G., Moran, K.P., The Altitude Coverage of Temperature Measurements Using RASS With Wind Profiler Radar, Wave Propagation Laboratory, ERL, NOAA, Boulder, CO, July 12, 1988.
- Newhouse, Paul D., The Frequency-Department Rejection (FDR) Concept and Its Application To EMC Analysis, Technical Note, ECAC-TN-86-007, Department of Defense, Electromagnetic Compatibility Analysis Center, Annapolis, MD, June 1986, p. 4-8 through 4-15.
- NOAA, Principles of Wind Profiler Operations, Prepared for the Office of Meteorology (National Weather Service,) Profiler Program NOAA/ERL Boulder, CO, March 1988.
- NTIA, Manual of Regulations and Procedures for Federal Radio Frequency Management, U.S. Department of Commerce, National Telecommunications and Information Administration, Washington, D.C., Revised January 1990.

Sessions, W.B., Boyd, B.A., Measurements of Interference In The SARSAT 406 MHz Band Due To Wind Profiler Radars, Westinghouse Electric Corporation for National Aeronautics and Space Administration, May 11, 1990.

Sullivan, T., Wolf, D., Potential Interference From Wind Profiler Radars to the CORSPAS/SARSAT System (Draft), Atlantic Research Corp. (for NOAA/NESDIS), USSG 8C-303 (Rev-1), July 22, 1990.

Unisys (1988), "Wind Profiler Antenna Test Report," Contract No. NA-86-QA-C-101, July 1988.

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15. ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here.) This report presents an assessment of three candidate bands (216-225, 400.15-406, and 420-450 MHz) for the potential accommodation of Wind Profilers nationally, with consideration worldwide. The approach used to evaluate each band was based on two major factors: conformance to current regulations and electromagnetic compatibility (EMC). This report addresses current regulations, spectrum usage, and analyzes the EMC between two types of Wind Profilers and specific environmental systems for potential accommodation in three candidate bands. The results of this study can serve to indicate a suitable band and identify potential frequencies within that band to accommodate Wind Profiler operations.			
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