

THE EFFECT OF WEATHER ON VLF MEASUREMENTS

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The VLF experiment running at SANAE IV, Antarctica, has long been plagued by an unknown form of intermittent interference. Previously the prime suspect for this interference was the HF Radar, part of the SUPERDarn network, operated at SANAE IV. However, this instrument was not operational during the second half of 2008, and yet the interference was still prevalent. It is well known that the wind can set up mechanical oscillations in the antenna elements, causing periodic modulations in the loop area. We show evidence linking high wind speeds to this interference.

VLF, Interference, Oscillation.

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