



Home About Us Contact Us View Cart My Account FAQ

username

LOGIN

New Account »
Forgot Password?

HAARP

GO

Advanced Search »

Ads by Google

Network Diagnostic Tool

Made by network engineers, for network engineers. Try it now.
www.SolarWinds.com

Ground Penetrating Radar

Effective Location of Underground Items. Call Now for Great Service!
www.GeoRadarImaging.com

Low Noise Amplifiers

Ciao Wireless offers a selection of Low Noise Amplifiers
www.rfglobalnet.com/

PC Diagnostic Tool - Free

Diagnose and Fix all PC errors Safe and Secure, 100% Guaranteed
www.PCDocPro.com

Oceanography and Atmospheric Sci. Atmospheric Physics

A Diagnostic System for Studying Energy Partitioning and Assessing the Response of the Ionosphere During HAARP Modification Experiments

Authors: [Frank T. Djuth](#); [John H. Elder](#); [Kenneth L. Williams](#); [GEOSPACE RESEARCH INC EL SEGUNDO CA](#)

Abstract: This research program focused on the construction of several key radio wave diagnostics in support of the HF Active Auroral Ionospheric Research Program (HAARP). Project activities led to the design, development, and fabrication of a variety of hardware units and to the development of several menu-driven software packages for data acquisition and analysis. The principal instrumentation includes an HF (28 MHz) radar system, a VHF (50 MHz) radar system, and a high-speed radar processor consisting of three separable processing units. The processor system supports the HF and VHF radars and is capable of acquiring very detailed data with large incoherent scatter radars. In addition, a tunable HF receiver system having high dynamic range was developed primarily for measurements of stimulated electromagnetic emissions (SEE). A separate processor unit was constructed for the SEE receiver. Finally, a large amount of support instrumentation was developed to accommodate complex field experiments. Overall, the HAARP diagnostics are powerful tools for studying diverse ionospheric modification phenomena. They are also flexible enough to support a host of other missions beyond the scope of HAARP. Many new research programs have been initiated by applying the HAARP diagnostics to studies of natural atmospheric processes.

- Adobe PDF - \$21.95
- Printed Format - \$24.95

ADD TO CART

Please check the box for the format you wish to order.

[Shipping Terms](#)
[About Electronic Delivery](#)

[Email This Abstract](#)

Limitations: APPROVED FOR PUBLIC RELEASE
Description: Final rept. 30 Sep 91-31 Dec 93
Pages: 55
Report Date: 15 MAY 96
Contract Number: NAS8-39238
Report Number: A070323

Keywords relating to this report:

- ✦ [ATMOSPHERIC PHYSICS](#)
- ✦ [AURORAE](#)
- ✦ [COMPUTER APPLICATIONS](#)
- ✦ [DATA ACQUISITION](#)
- ✦ [ENERGY TRANSFER](#)
- ✦ [FIELD TESTS](#)
- ✦ [HIGH DYNAMIC RANGE](#)
- ✦ [HIGH FREQUENCY](#)
- ✦ [INCOHERENT SCATTERING](#)
- ✦ [IONOSPHERIC DISTURBANCES](#)
- ✦ [IONOSPHERIC MODIFICATION](#)
- ✦ [RADAR REFLECTIONS](#)
- ✦ [RADIO WAVES](#)
- ✦ [VERY HIGH FREQUENCY](#)