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Recent Activities

Current (as of Friday, February 22, 2002)

All facility diagnostic instruments with the exception of the imaging riometer are currently functioning. The HF Transmitter was last used on February 19, 2002.

February 1-19, 2002

The February 2002 campaign to study narrow band emissions at 6300 Å and 5577 Å occurring both naturally and through ionospheric interactions.

December 4-7, 2001

The HF Transmitter was used to calibrate specialized ELF receiving equipment.

November 26, 2001

The WIND moon bounce experiment was repeated to take advantage of a favorable spacecraft position at this time.

October 11-24, 2001

The Fall 2001 Research campaign. This campaign was dedicated to the study of ionospheric-magnetospheric interactions and on detection of weak ELF signal propagation mechanisms in these regions.

September 12-13, 2001

Experiments were conducted using the NASA WIND spacecraft to detect HF signals bounced off the moon. The experiment was cancelled early due to the tragic events of September 11.

August 25-26, 2001

The seventh annual HAARP summer open house was held at the facility. A number of ionospheric scientists were present to discuss their work and the HAARP staff conducted tours and explained the operation of the facility to the general public.

August 13 - 22, 2001

The second annual summer school sponsored by UAF, HAARP and the NSF. The theme of the 2001 program was the use of LIDAR instruments to study upper atmospheric phenomena. The HAARP HF transmitter was used by the students during the latter two days as part of the school activity.

July 5 - 21, 2001

The HF transmitter was used during this period to study polar mesospheric summer echoes (PMSE) a high latitude phenomenon occurring only during the summer season.

April 29 - May 2, 2001

The seventh annual ionospheric interactions conference attended by approximately 90 scientists and students. This annual conference is sponsored by the National Science Foundation, The Air Force Research Laboratory, the Office of Naval Research and Cornell University.

March 18 - April 4, 2001

Spring 2001 scientific research campaign. The campaign consisted of 14 experiments ranging from study of stimulated electromagnetic emissions to studies of the fine structure of the natural aurora.

March 1-14, 2001

Research campaign investigating improved methods for generating low frequency signals.

February 8, 2001.

The HF transmitter was used to obtain measurements of antenna VSWR and tuning conditions.

October 17 - November 7, 2000.

The Fall scientific research campaign was conducted. A total of 18 Principal Investigators from 11 universities and research labs participated in this activity.

Aug 12-13, 2000

The sixth annual HAARP Open House was held at the facility. Several scientists were present to discuss the research program and visitors were encouraged to look around, take photographs and ask questions. This year's highlight was the newly completed interior office space in the Operations Center building.

July 31- Aug 8, 2000

The [HAARP Summer 2000](#) Faculty-Student Program was held at the University of Alaska and the HAARP Observatory. Faculty-student teams from seven universities participated in this first annual summer school activity in which graduate students and their advisors planned and conducted experiments at the HAARP facility and reported their results in a collective environment.

July 7-12, 2000

A final set of low power antenna pattern measurements were made to verify computer predictions of the performance of the HF antenna array.

May 10, 2000

A dozen students and teachers from the Kenny Lake school visited the HAARP facility for a career day. HAARP staff members discussed their background and duties at the site and a site tour was provided.

April 25, 2000

The HAARP facility hosted a "Career Day" tour for 8th grade students from the Glennallen School.

April 13, 2000

A lecture was presented at the Prince William Sound Community College by Dr. Davis Sentman of the University of Alaska on ELF research at HAARP.

April 1-12, 2000

Measurements were made of the HF antenna pattern characteristics. Data were obtained using a small aircraft carrying field strength measuring equipment at various altitudes and look angles from the array.

December 9, 1999

Students from the Prince William Sound Community College visited the site for a tour and discussion of the research to be conducted.

December 7, 1999

A class from the Sapa Christian school, in Kenny Lake, Alaska, visited the Observatory and received a tour of the facility.

November 13-18, 1999

A mini-campaign was conducted associated with the Leonid meteor shower.

November 5, 1999

A member of the HAARP staff participated in an "in-service" day for teachers in the Glennallen area.

October 20, 1999

The HAARP staff hosted a group from the Alaska State government for a tour of the facility.

September 17 through October 21, 1999

A scientific research campaign was conducted at the HAARP Ionospheric Observatory from September 17 through October 21. The campaign demonstrated continued availability of the installed diagnostic instruments and the HF transmitter system to support ionospheric research over an extended scientific effort involving several researchers.

July 31 and August 1, 1999

The fifth annual HAARP Open House was held at the Gakona facility. Numerous visitors from Alaska and from the Lower 48 toured the site, filled their cameras, and discussed the facility and its research plans with staff engineers and with several scientific experts who were present at the observatory for the occasion.

June 16 - July 8, 1999

A summer research campaign was conducted at the HAARP Ionospheric Research Observatory. Engineering tests were also conducted to evaluate the sidelobe structure of the antenna pattern.

May 25 - 27, 1999

A Diagnostics workshop was held at the UCLA Conference Center at Lake Arrowhead, CA. This conference brought together all of the instrument providers and principal investigators for the scientific instruments either currently installed at the HAARP Observatory or planned for eventual installation at the site. The meeting concentrated on discussions for improving data collecting, processing, archiving and dissemination of this comprehensive data collection. ([Photo of Participants](#) 90K JPEG)

April 18 - 21, 1999

The fifth annual RF Ionospheric Interactions Workshop was held April 18-21, 1997 in Santa Fe, New Mexico. Approximately 100 Scientists and students attended this three day conference, sponsored by the National Science Foundation, The Air Force Research Laboratory, the Office of Naval Research and Cornell University.

March 9 - 29, 1999

A comprehensive research campaign was conducted at the HAARP Ionospheric Research Observatory over a three week period. During this effort, 19 individual experiments were conducted by 23 principle investigators and their associates. This was the first time that the recently upgraded, 960 kW HF transmitter system was used for scientific research and it performed reliably and effectively.

March 9, 10 and 11, 1999

A program of "brown bag" lectures was presented at the Prince William Sound Community College in conjunction with the HAARP spring science campaign. Several of the visiting scientists presented talks on various aspects of ionospheric research at the college.

February 11 - 19, 1999

Engineering tests were conducted to evaluate the performance of the new AMU installation and to check the operation of the HF transmitters at the 960 kW level. This engineering test also provided an opportunity to evaluate specific operating modes to be used during the March science campaign.

December 11-15, 1998

Engineering tests were conducted to evaluate the performance of the new AMU installation and to check the operation of the HF transmitters at the 960 kW level.

November 25, 1998

The effort to replace and upgrade the Antenna Matching Units (AMUs) was completed. AMUs are used to improve the ability of a radio transmitter to deliver power an antenna over a large frequency range. The new AMUs provide a smoother VSWR performance over the low frequency portion of the HAARP antenna system's operating bandwidth than the original design.

August 8-9, 1998

The Fourth Annual HAARP Open House was held at the facility in Gakona, AK. Several experts in the science of ionospheric physics were present to discuss this area research. Also, members of the HAARP program were present to provide tours and answer questions. The event was well attended by public and media alike.

August 7, 1998

Professor Mike Kelley of Cornell University gave a presentation at the Prince William Sound Community College in Glennallen, AK on "The Earth's Ionosphere, What it is and why we need to understand it."

May 19, 1998

A presentation was provided in conjunction with the Federal Telecommunications Group Conference in Anchorage, Alaska. The presentation provided information concerning program status and plans and addressed electromagnetic compatibility and safety assurance at the site.

May 14-17, 1998

Several engineering tests were conducted of the low level input stages to the transmitter subsystem. The tests which were of short duration and at power levels of approximately 20 kW, verified modifications which were made to improve the spectral purity of transmitted signals close to the carrier frequency.

May 5, 1998

The HAARP facility hosted a visit by the 8th grade class at the Glennallen, AK middle school. Students and teachers received a tour of the facility and site personnel discussed how the observatory will be used for ionospheric research.

August 23 - 24, 1997

The third annual HAARP Open House was held at the facility in Gakona, Alaska. Program personnel were present to discuss the project and to give demonstrations and tours of the facility. Several experts in ionospheric physics were also present to discuss the research plans and the physics of the earth's upper atmosphere. Additional information about the open house including photos can be found in the [Open House 97 Album](#).

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Questions of a technical nature may be submitted using the [comment](#) page, or via e-mail to: webmaster@haarp.alaska.edu



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Last Updated February 22, 2002.