



ARISS Meeting in Montreal 04 - 06 April 2002

**Ionospheric Research
An ARISS joint venture with science?**

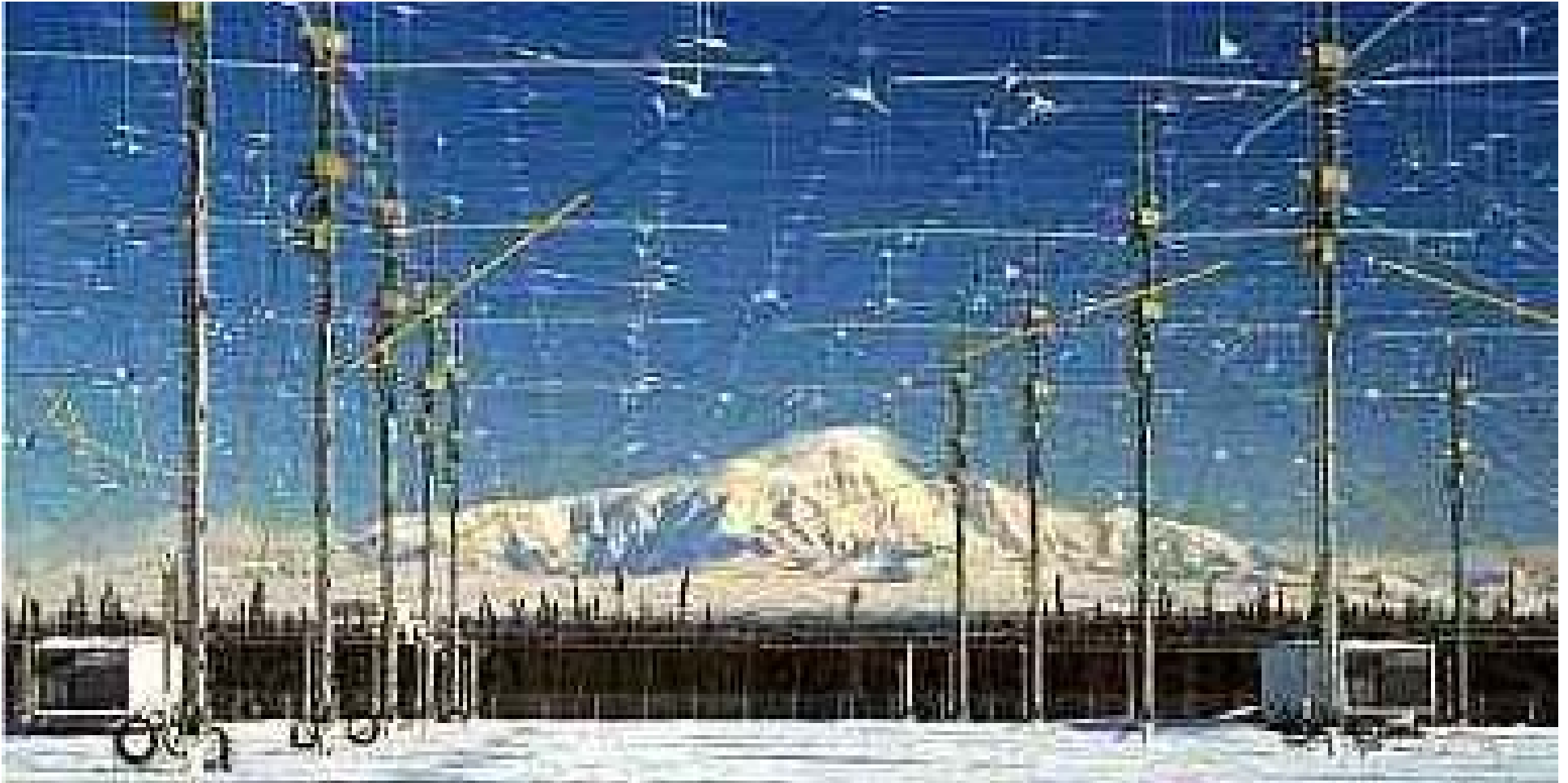
A proposal

Dr Andras Gschwindt, HA5WH (Budapest University) proposes to use the 2.5m antenna for ionospheric research in the HF bands

Paul Rodriguez of the Naval Research Laboratory, Washington, DC supports the idea of a joint scientific project

HAARP (High frequency Active Auroral Research program) could possibly participate

HIGH FREQUENCY ACTIVE AURORAL RESEARCH PROGRAM



Gakona, Alaska

Latitude 62.39 North - Longitude 145.15 West

The IRI (ionospheric research instrument) is a phased array transmitter of high power radio signals (960 kW) in the 2.8 to 10 MHz frequency range

HF research on board ISS

Investigation and mapping of exit points of the topside ionosphere for HF ducts

Direct transmission from HAARP to ISS

Solar emissions monitoring

Ionospheric occultations

Monitoring of ground emitters at HF

Discussion

Is this proposal worthwhile considering ?

If feasible, what would be the benefits for the ARISS and the amateur radio community :

- revisit the exciting discoveries of the twenties ?**
- an international joint venture with science ?**
- possible participation of earthbound ham stations ?**
- improve ARISS' status with the space agencies ?**

Implementation would need a professional HF receiver, a data storage medium and data transfer to earth

Paul Rodriguez said experimentation should be started within two years