

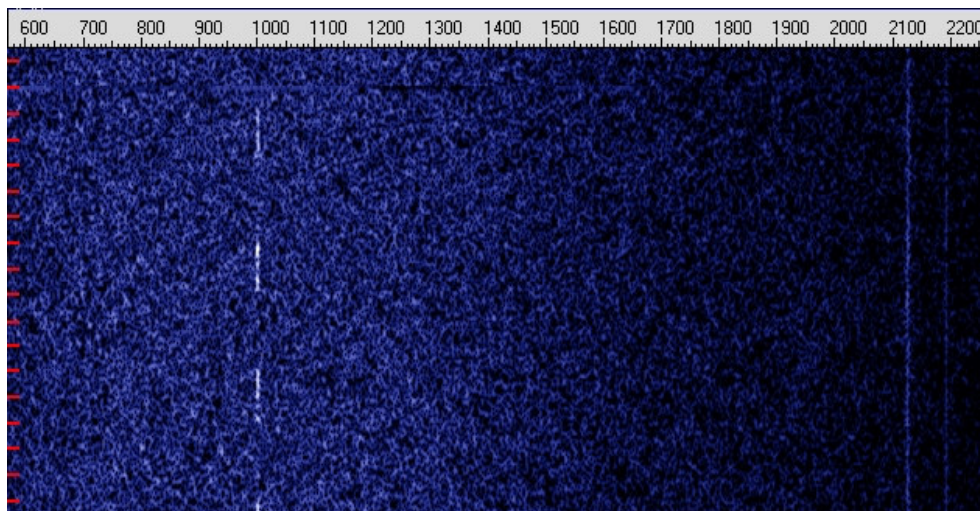
# RADIO RECEPTIONS OF HAARP SIGNALS

**Flávio Archangelo**

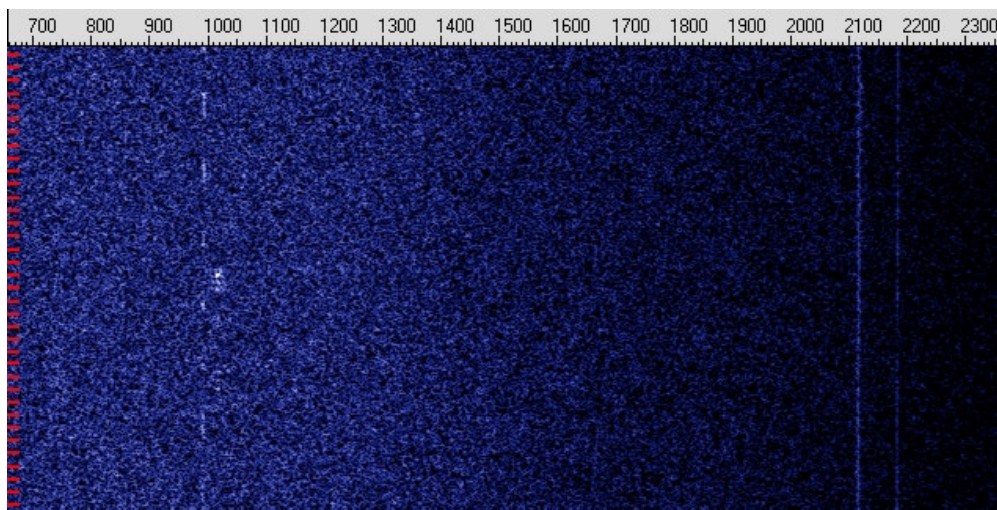
This document is a resume and collection of images related to the reception of HAARP's emission from Alaska, USA, devoted to produce Moon bounced radio signals on HF spectrum, monitored by amateur radio operators and short wave listeners around the globe, as well the scientific community.

My station PY2ZX located at Jundiaí – SP - Brazil, GG66nt, capture the following signals on January 20; 2008.

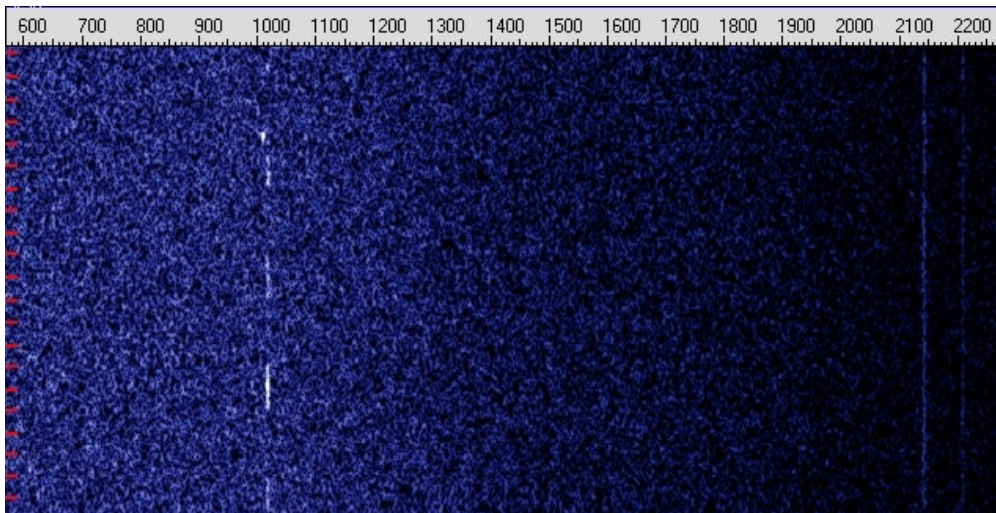
The sked (from 0630 Z) did not cover the Moon-time for Sao Paulo (Moonset at 0611 Z), so no Moonbounce signal heard, only the ionospheric path from the emitter in Alaska.



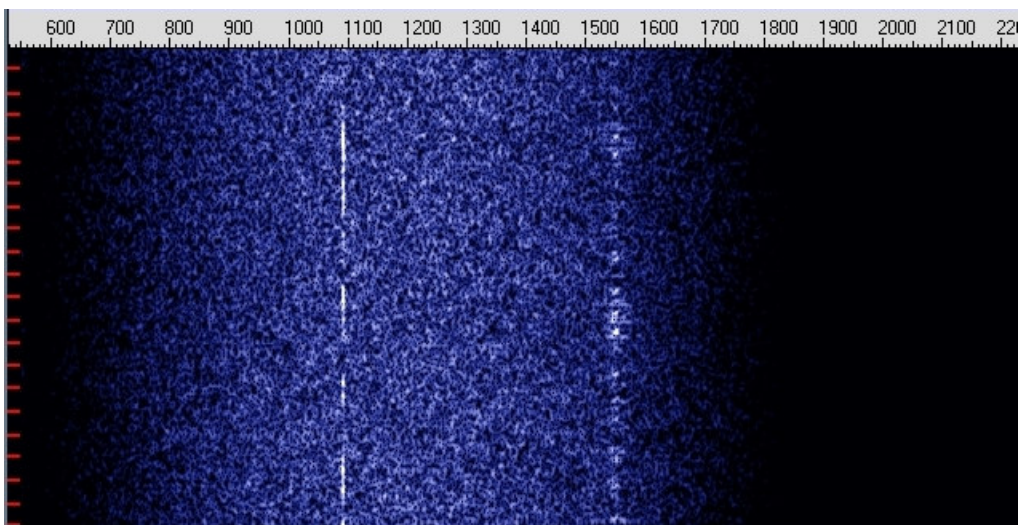
The image above was made by Spectran around 0647 Z in **6,7925 MHz** with Yaesu **FT-767GX** transceiver.



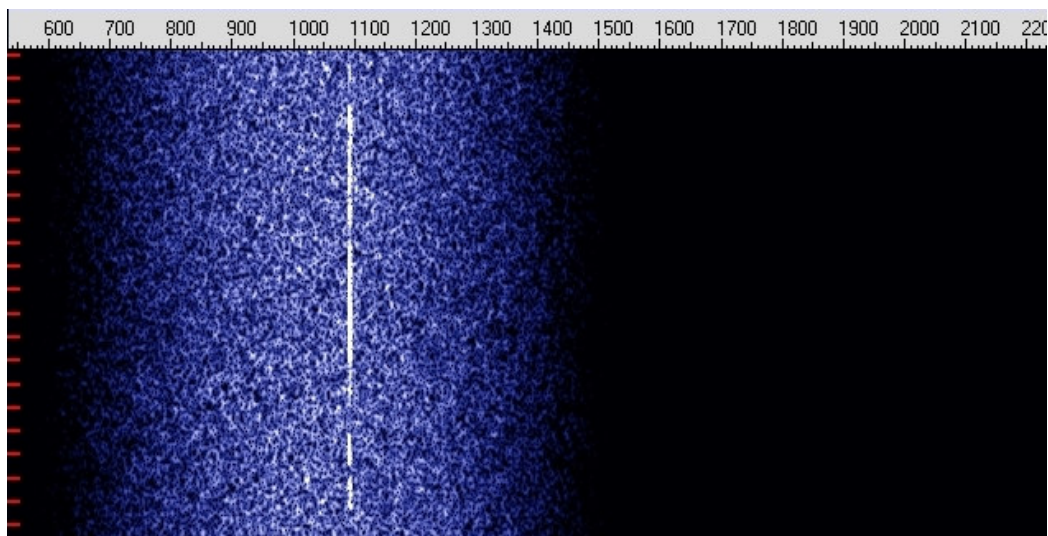
Quickly telegraphic signal on right side (few Hz upper) of HAARP witch seems "TAW", "TIR" or nearby.



Very short and stressed signal down HAARP frequency.



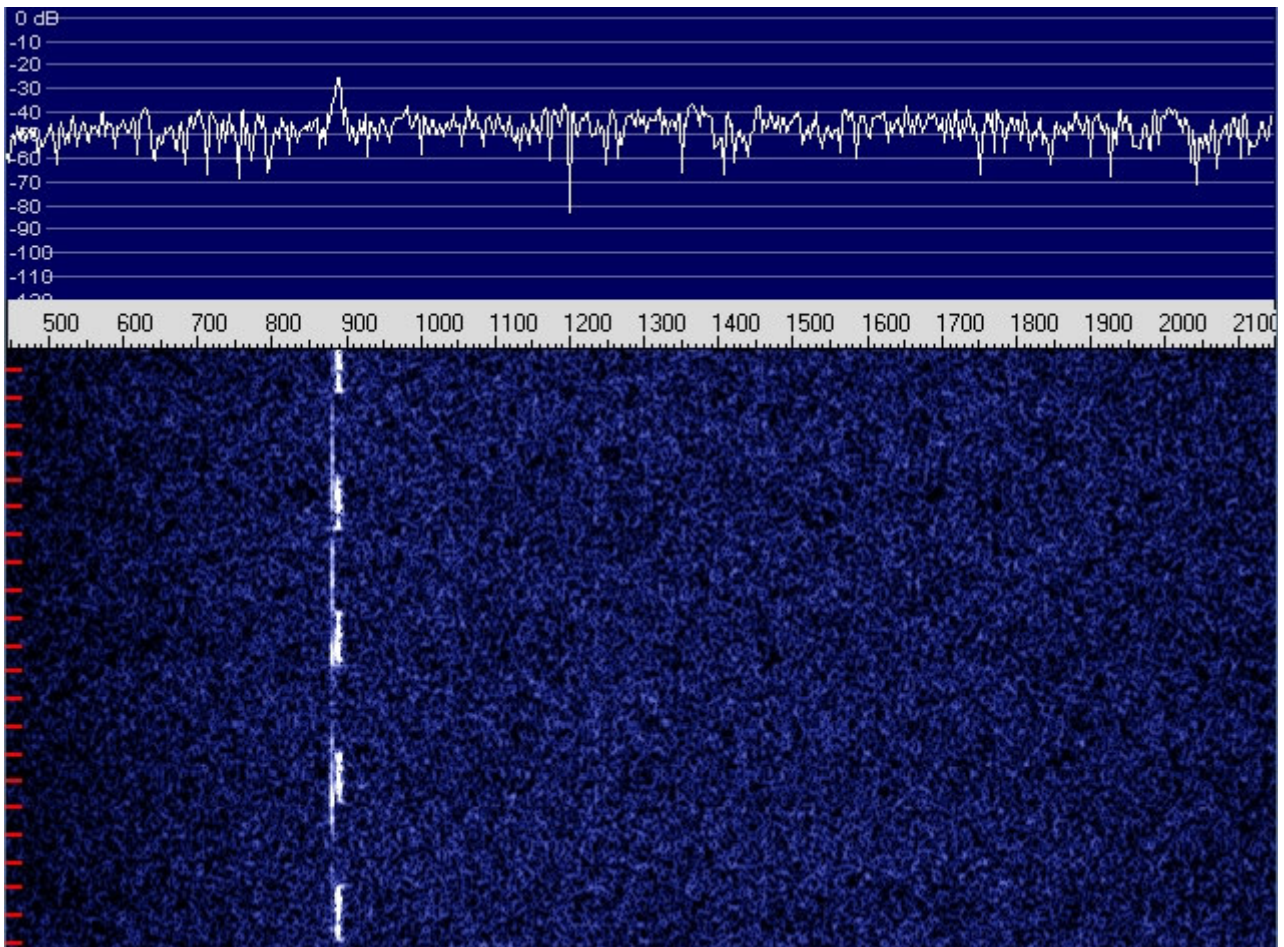
Another telegraphic station with long message near the HAARP QRG.  
Reception now with TenTec **RX-320D** receiver.



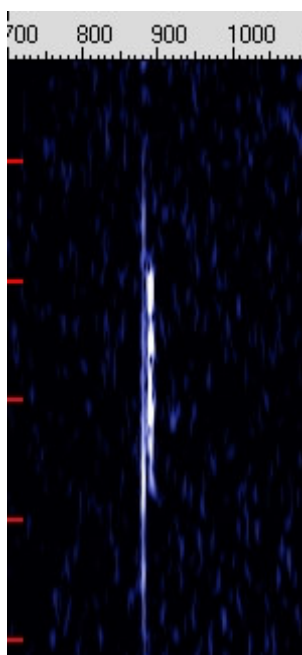
Final moments. The long trace maybe happened because the "PC internal echo" made by "wave" open button of sound card (TenTec controlled by PC + Spectram) or some propagation effect or even second carrier very near the HAARP frequency since I heard it till 0800 Z, away from the sked proposed.

Nothing heard on 7,4075 MHz. Nothing heard with Degen DE-1103. Antenna: dipole "inverted V" for 7,05 MHz.

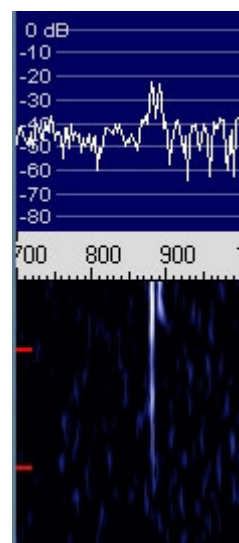
## HAARP - COMPARATIVE RESULTS



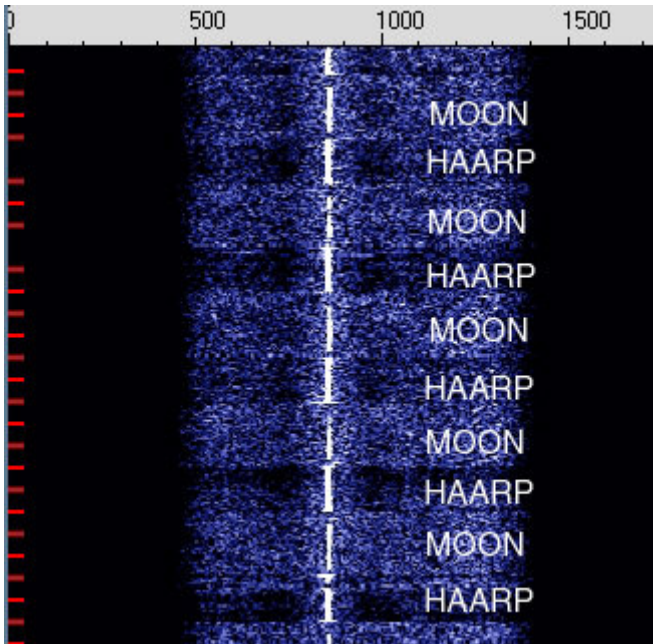
Spectran picture of HAARP signals heard by [ZZ2FGM](#) in Mid-West Brazil.



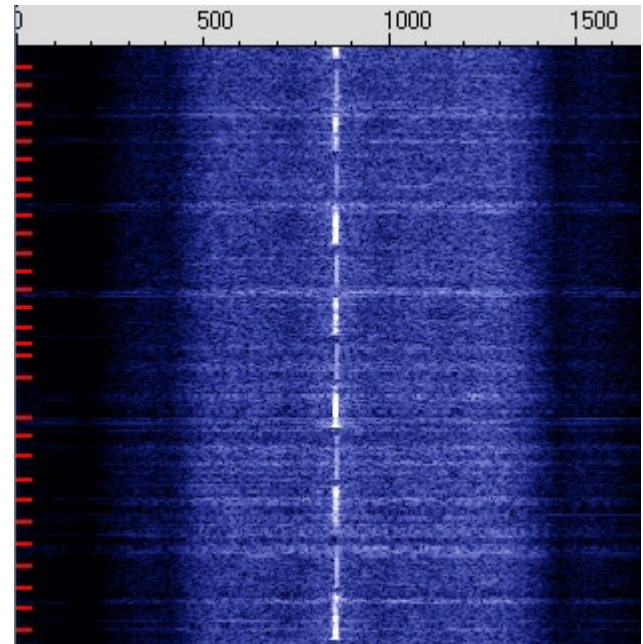
Detail of the long second carrier on the left side of HAARP.



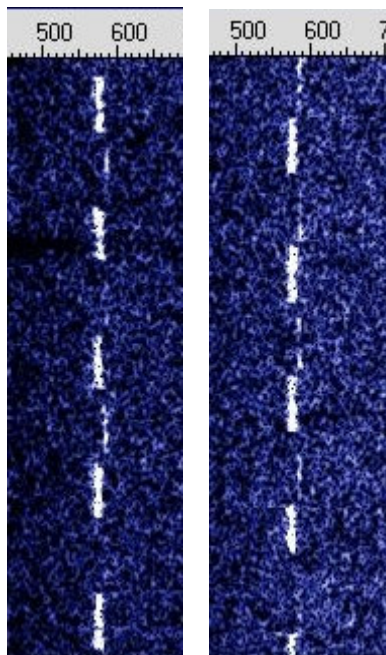
Moment when both signals are side by side with closed strengths!



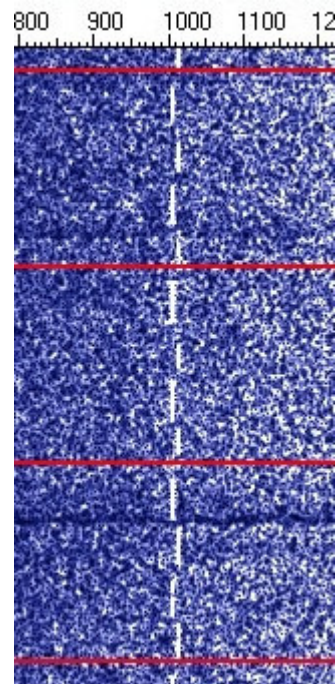
Now listenings of [K2BET](#) from United States. The signal reflected by the Moon is on the same QRG and inside the 3 sec. interval. Time and frequency are synchronized.



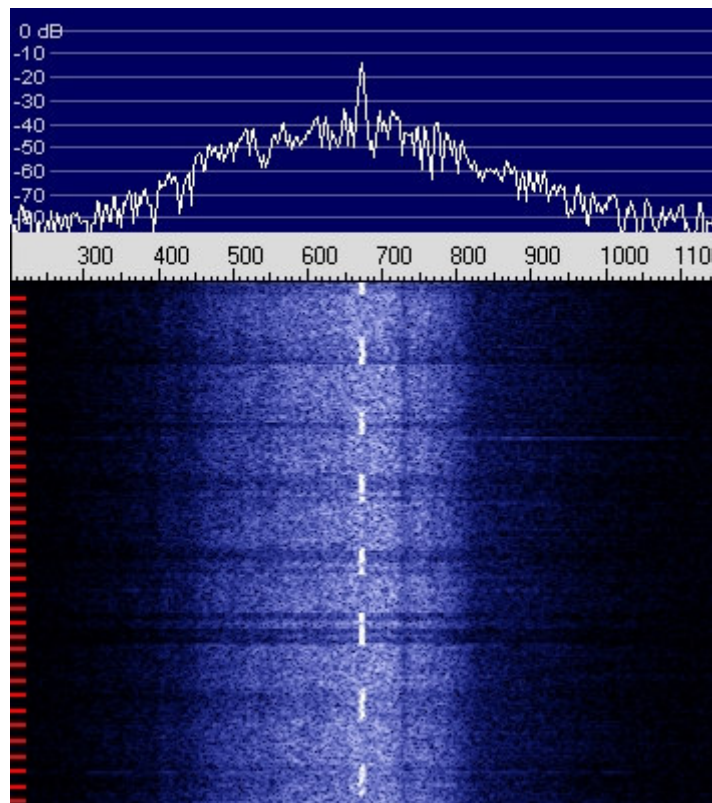
Another moment of K2BET listenings with new Spectran config for clearer see the weak signal-images reflected by the Moon.



HAARP carriers listen by [PY4AQA](#), the only brazilian report about 7,4075 MHz. Check the tiny traces between almost in the same freq and in the time line. EME?

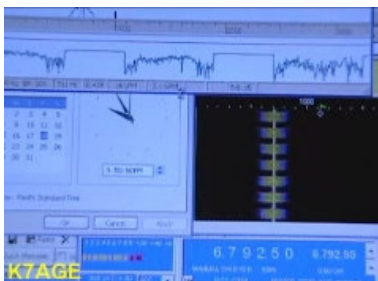


Incredible images from [WB9JTK](#) in USA that shows the EME echoes on QRSS View of Argo. See the doppler and similarity with PY4AQA carriers!



Carriers capture by [IW2FZQ](#) (without EME)

## RELATED LINKS



Audio files: [K2BET](#) - [K2BET \(2\)](#) - [ZZ2FGM](#) - [PY2RML](#) - [PY4AQA](#) - [DXer.ca](#) - [AE0AL](#)

Video links: [K7AGE](#) - [IW2FZQ](#) - [I0-5639](#) - [EB7FLW](#) - [DJ1YFK](#) (Picture) - [N6TV](#) - [PY2BBS](#) - [SDR FlexRadio](#) - [KW2P](#) - [JF1YHO](#)

HAARP links: [About the experiment](#) - [Expected Lunar Echo Signal Strenght](#) - [HAARP live Cam](#)

Other links: [About the experiment \(ARRL\)](#) - [About HAARP](#) - [Sobre HAARP](#) - [Spectran](#)

For Moon position: [Uranometria](#) (Brazil) - [Your Sky](#) - [Stellarium](#)

*23 January 2008*