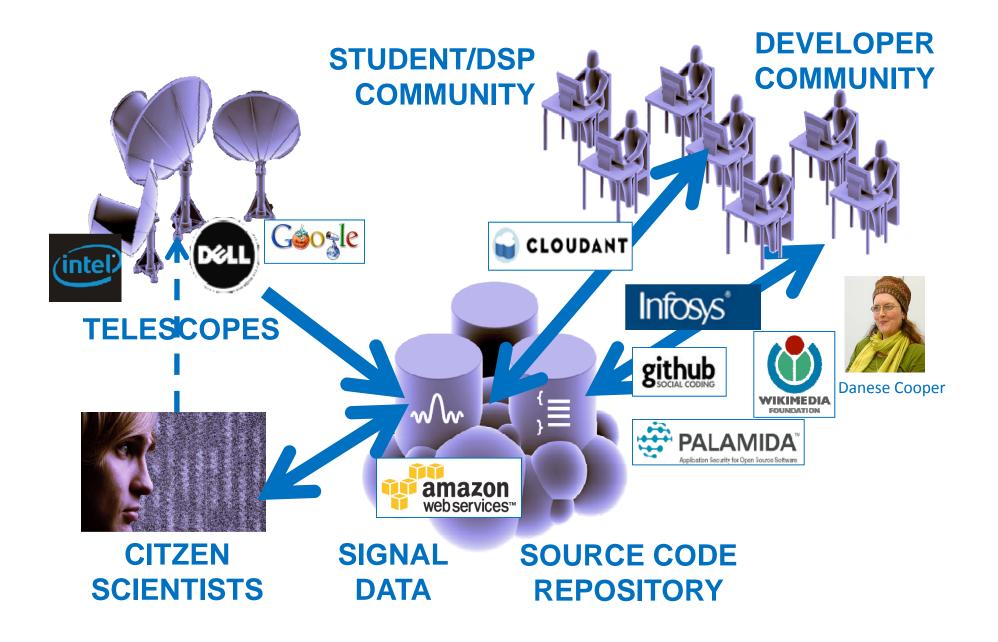
TED Wish by Jill Tarter:

"I wish that you would empower Earthlings everywhere to become active participants in the ultimate search for cosmic company."

setiQuest



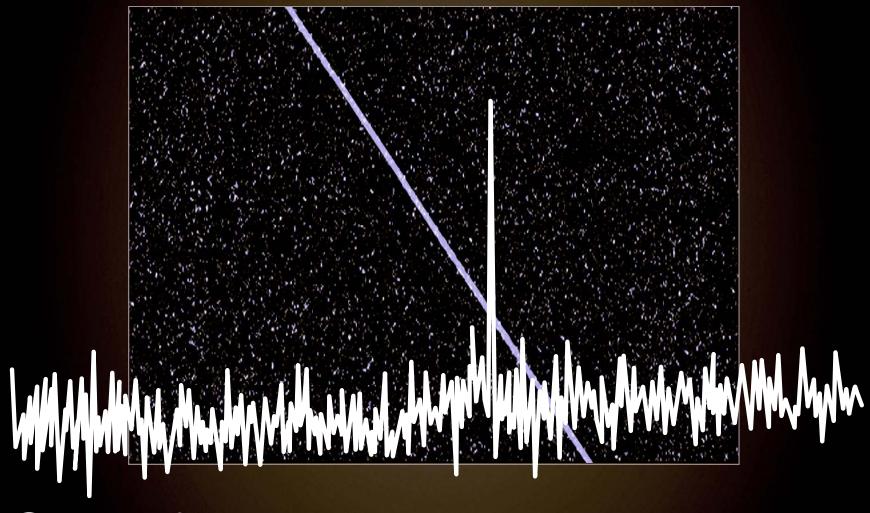
Building the setiQuest community

setiCode

Open Sourcing our Detector Code

- SonATA is an all-software sub-Hz spectrometer supporting 3 x 100 MHz – developed by many programmers over many years
- We need constant renewal to remain state of the art
- We want to search for more signal types
- We need more minds

Voyager 1 Signal: 106 AU Away



Our software is good at what we do

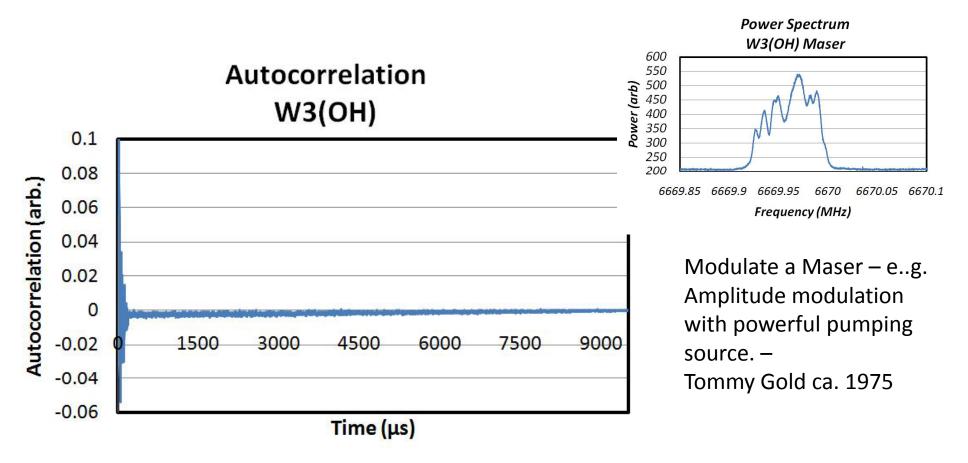
setiData

Free Archive of Time Series Data

- Today: ~200 GB of 8 MHz Beamformer Time
 Series on 10 sources. Growing fast.
- Expand with multi-antenna capture,
 12 -> 84 antpols
- Hosted by Amazon Gift
- Anyone with a brain and a computer can analyze the data in new ways!

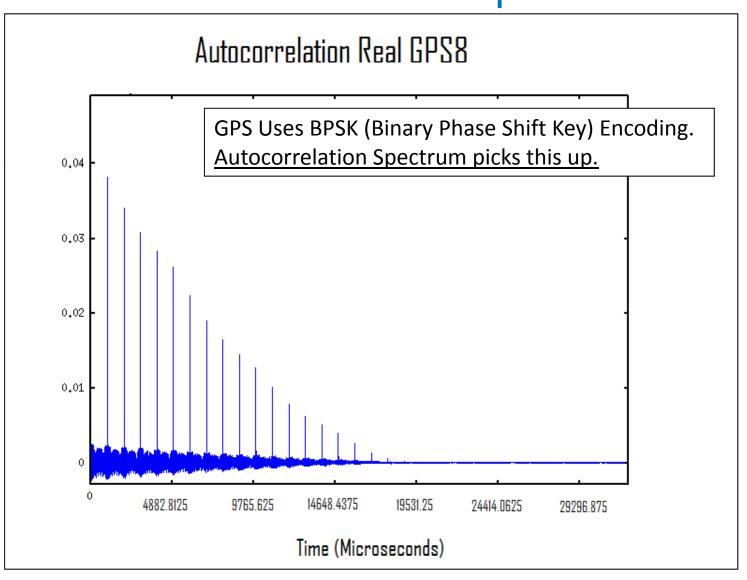
First setiData Results

G. R. Harp, R. F. Ackermann, S. K. Blair, J. Arbunich, P. R. Backus, J. C. Tarter, and the ATA Team. 2010. A new class of SETI beacons that contain information. In "Communication with Extraterrestrial Intelligence", ed. D. A. Vakoch. Albany, NY: State University of New York Press.



First setiData Results

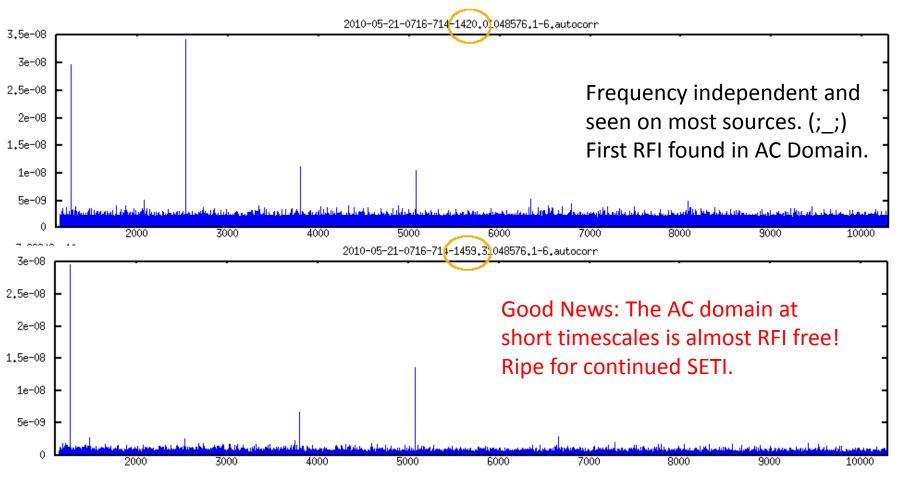
Proof of Principle



Extreme Time Domain

Astronomy

G.R. Harp, R. F. Ackermann, S. A. Meitzner



Autocorrelation Lag (μs) -- That is microseconds, folks!

setiCitizen

- Make SETI search into an I-Phone App, game, Galaxy Zoo...
- Will be <u>interactive</u>, not passive (seti@home)
- How best to represent SETI observations?
 - Power Waterfalls (2D images) of:
 - Freq Power Spectrum vs. Time
 - Folded Time vs Time
 - Autocorrelation Power vs Time
 - Matched Filter Power vs Time, Freq, Dilation, or Dispersion
- Creator of Tetris is on our team!
- Audio representation? Etc.

setiCloud

 Generous donation of compute time from AmazonWS



Partnering with cloud-middleware group, Cloudant



- Bring free cloud computing to the world (to work on SETI algorithms & analysis)
- Lowers barrier of entry; brilliant minds from poor countries.
- Crude beginnings, will improve in next few months

Go To setiQuest.com