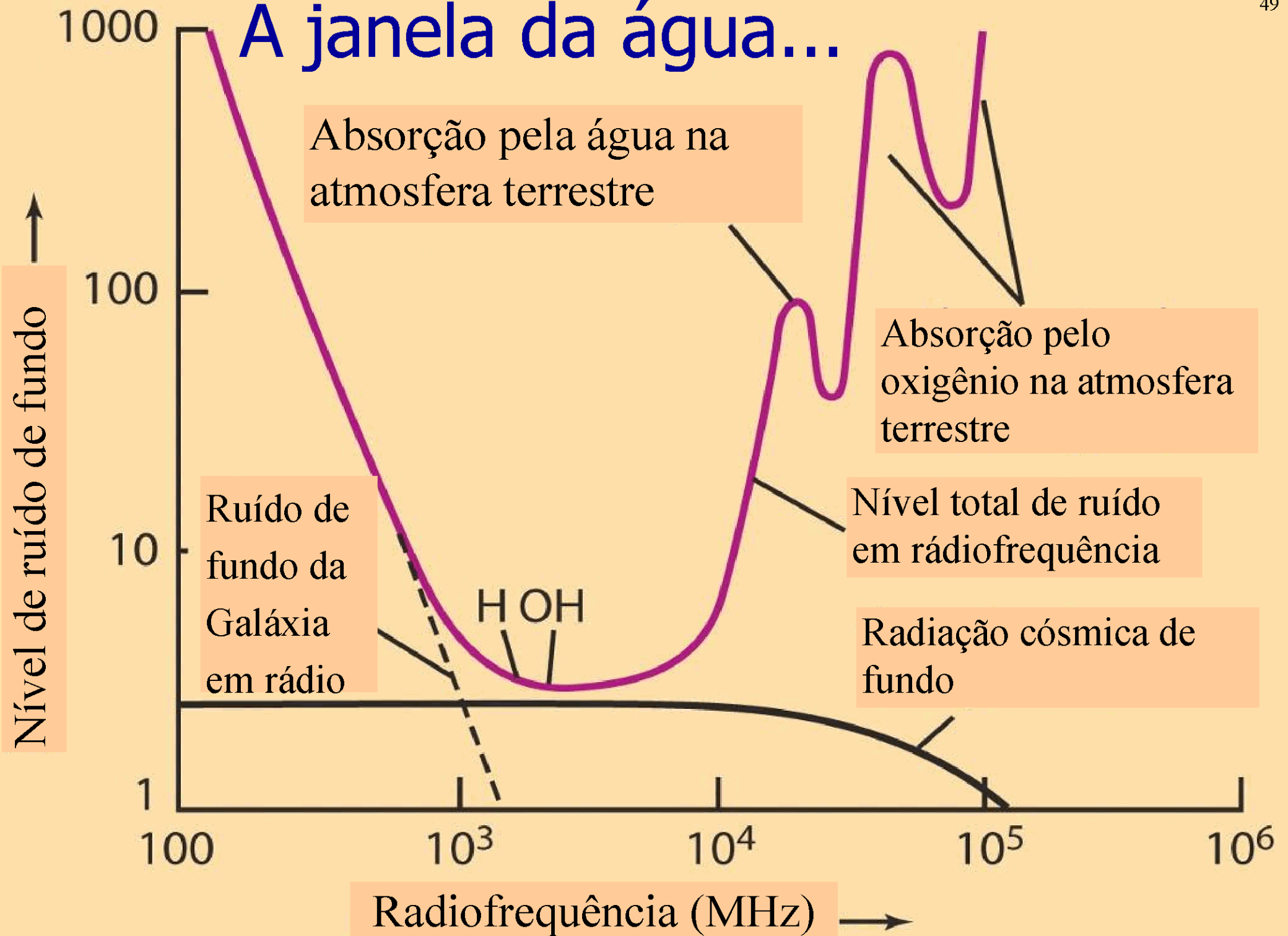



# A janela da água...





SETI@Home Client

File Settings Help

**The Search for Extraterrestrial Intelligence at HOME**  Press F1 for info Version 3.03  
<http://setiathome.berkeley.edu>

---

**Data Analysis**

Computing Fast Fourier Transform 9%

Doppler drift rate: 0.0000 Hz/sec Resolution: 4.768 Hz

**Data Info**

From: 19 hr 10' 4" RA, +26 deg 39' 19" Dec  
 Recorded on: Mon Aug 15 18:15:58 1977 GMT  
 Source: Test Data  
 Base Frequency: 1.419999056 GHz

---

Overall: 0.008% done

CPU time: 0 hr 00 min 32.2 sec

**User Info**

Name: Jerry Ehman  
 Data units completed: 0  
 Total computer time: 0 hr 00 min 00.0 sec

---

↑

Power

Frequency (Hz)

Time (sec)



Account information

Name Alex Wuensche
Email address alex@das.inpe.br
URL http://www.das.inpe.br/~alex
Country Brazil
Postal code 12227-210
SETI@home member since 25 May 1999

Change email address | password | other account info
Log out

User ID 1352239
Account key f8d89d611ff4ad8bbfd8118893801a4f
Weak account key 1352239\_9a15336130c30fb776f1f400e1fd85ea

Preferences
When and how BOINC uses your computer Computing preferences
Message boards and private messages Community preferences
Resource share and graphics SETI@home preferences

Computing and credit

Community

Profile View | Delete
Private messages Inbox | Write
Team None | find a team
Friends Find friends

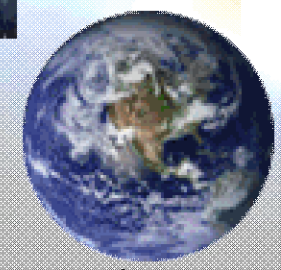
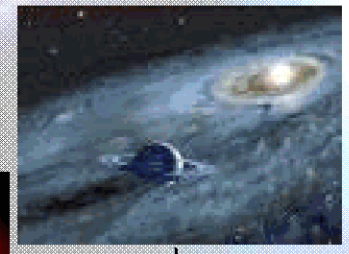
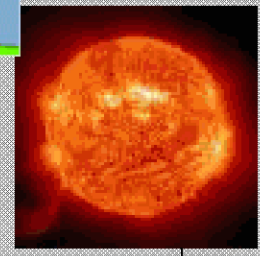
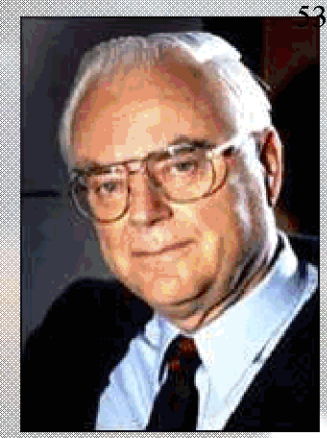
Total credit 17,810
Recent average credit 25.11
SETI@home classic workunits 1,147
SETI@home classic CPU time 5,532 hours
Pending credit View
Computers on this account View
Tasks View
Cross-project statistics The Knights Who Say 'Ni!' Free-DC BOINC all Project Stats BOINC Statistics for the WORLD! BOINC Combined Statistics Team Starfire World BOINC Stats 'N Stones BOINCstats

Cross-project ID: 6c4a6395581a7dbc14b0f94618105600

08.10.08 17:17

# Equação de Drake

Frank Drake



$$N = R_* \cdot f_p \cdot n_e \cdot f_l \cdot f_i \cdot f_c \cdot L$$

10

~ 1  
por  
ano

~ 1

~0.1?

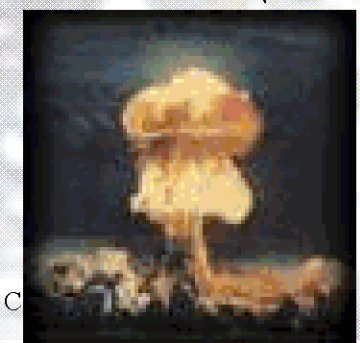
~1??

~1???

~1??!

100 anos?

$N = 1000$  ou  $0,0000000001\dots$

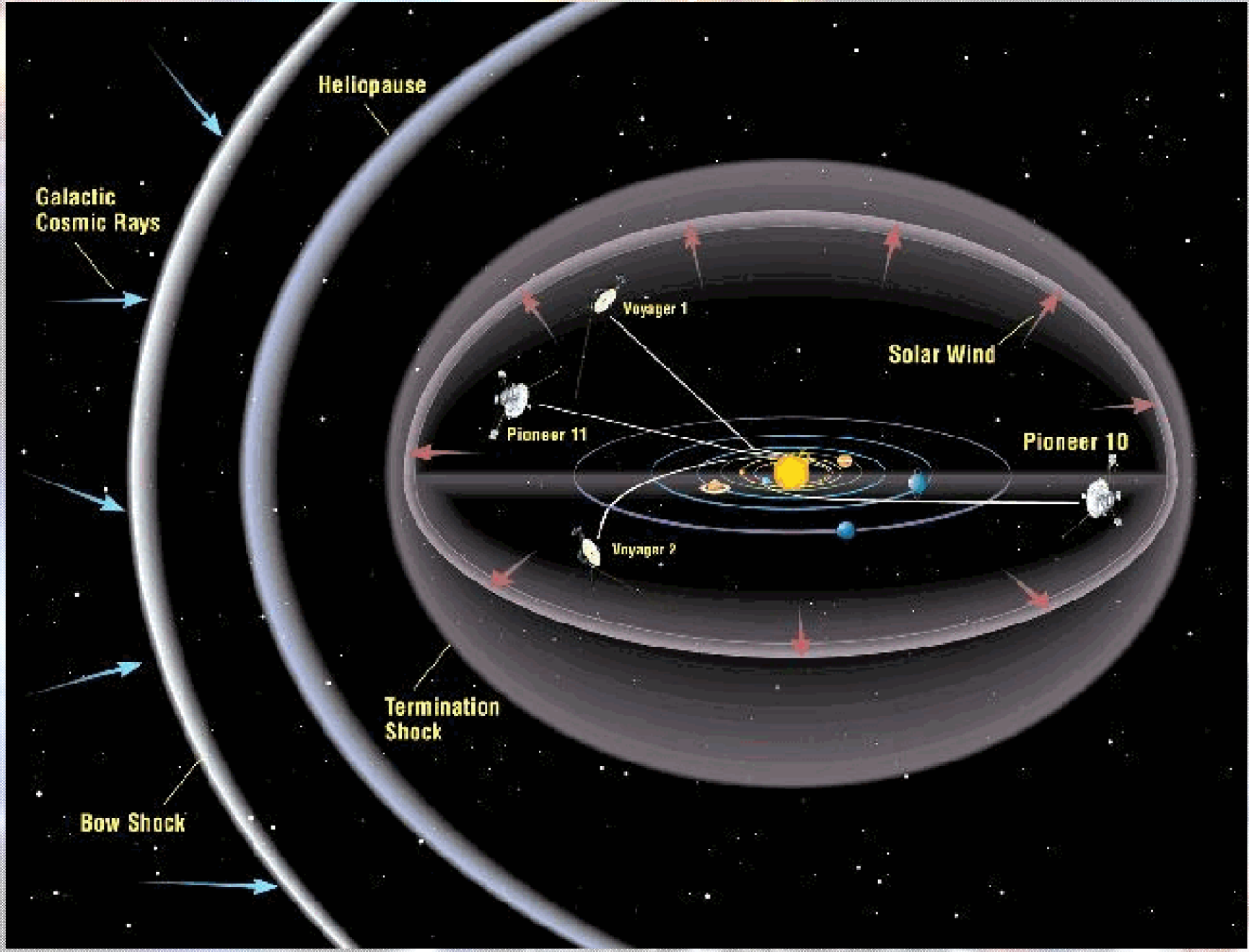




# Resultados dos programas SETI...

- ❖ Tecnicamente, é possível detectar sinais equivalentes a potência de:
  - ❑ uma emissora de TV a um a.l.,
  - ❑ um radar militar a 300 a.l.
  - ❑ um radar planetário semelhante ao de Arecibo a 3000 a.l.
- ❖ Poucos objetos observados no volume definido acima.
- ❖ Baixa sensibilidade dos instrumentos atuais impede qualquer conclusão séria sobre o assunto. Melhoria necessária  $> 10^5$
- ❖ Resultados científicos significativos, desde a década de 60, a partir de 99 projetos científicos: NENHUM!
- ❖ Resultados do [SETI@home](#): cerca de 2600 "candidatos finais", com 1% de significância, submetidos a reanálise

# A sonda Pioneer 10



# Codificação das informações na Pioneer 10

