

A Modest Proposal

Bill Hamilton

for
the International Gravitational
Event Collaboration
(IGEC)

What can be done if there is no certain detection?

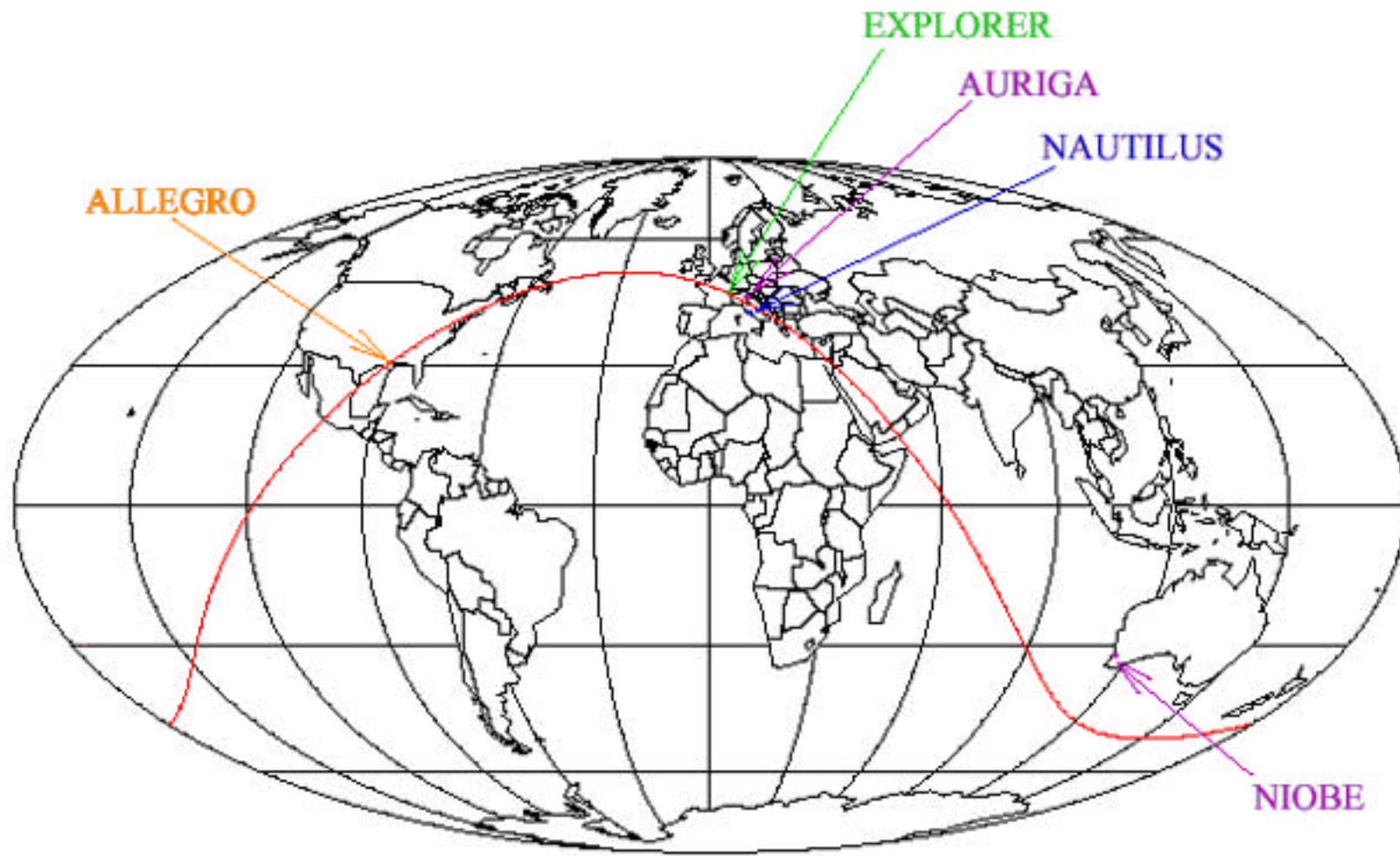
- ◆ Upper limits for various types of gravitational wave flux can be established.

Bar Detectors have an operating network

- ◆ More than 2 years of data taken by 5 different detectors in 4 different countries have been exchanged and compared.

IGEC

International Gravitational Event Collaboration



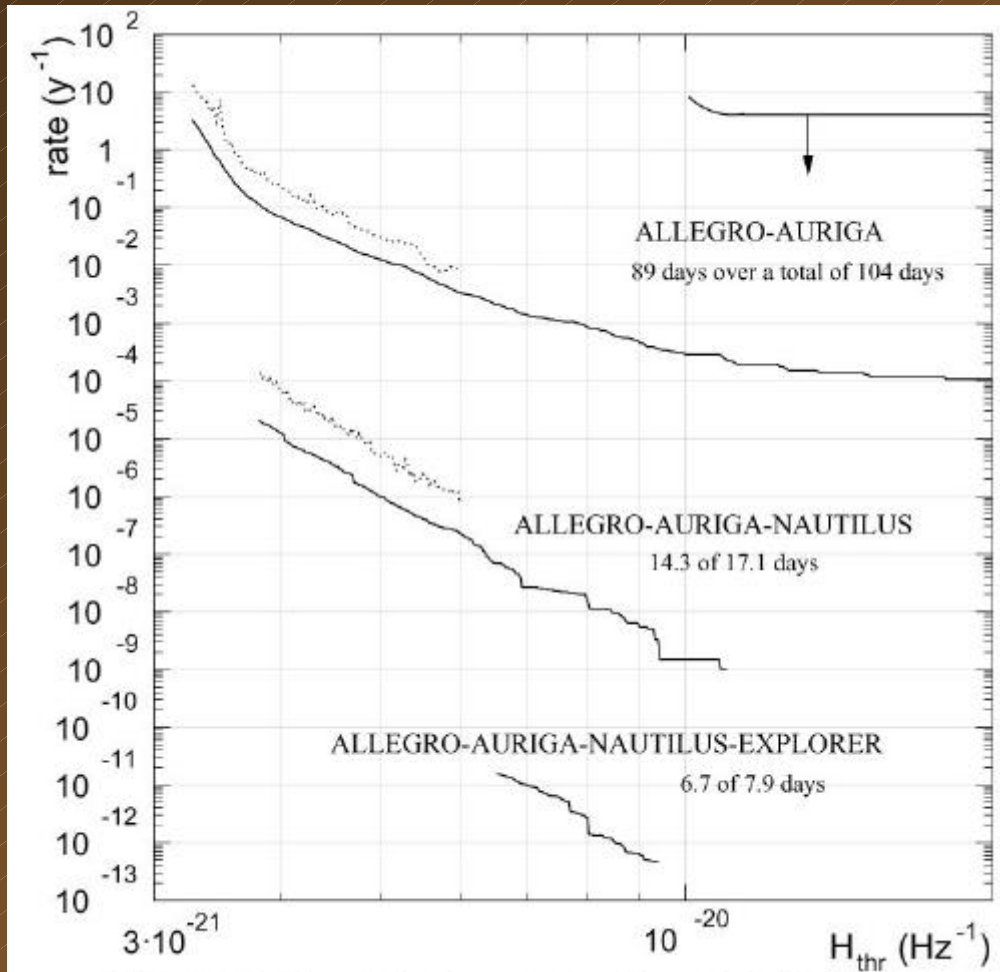


FIGURE 1. Upper limits for gravitational bursts for half of 1998.

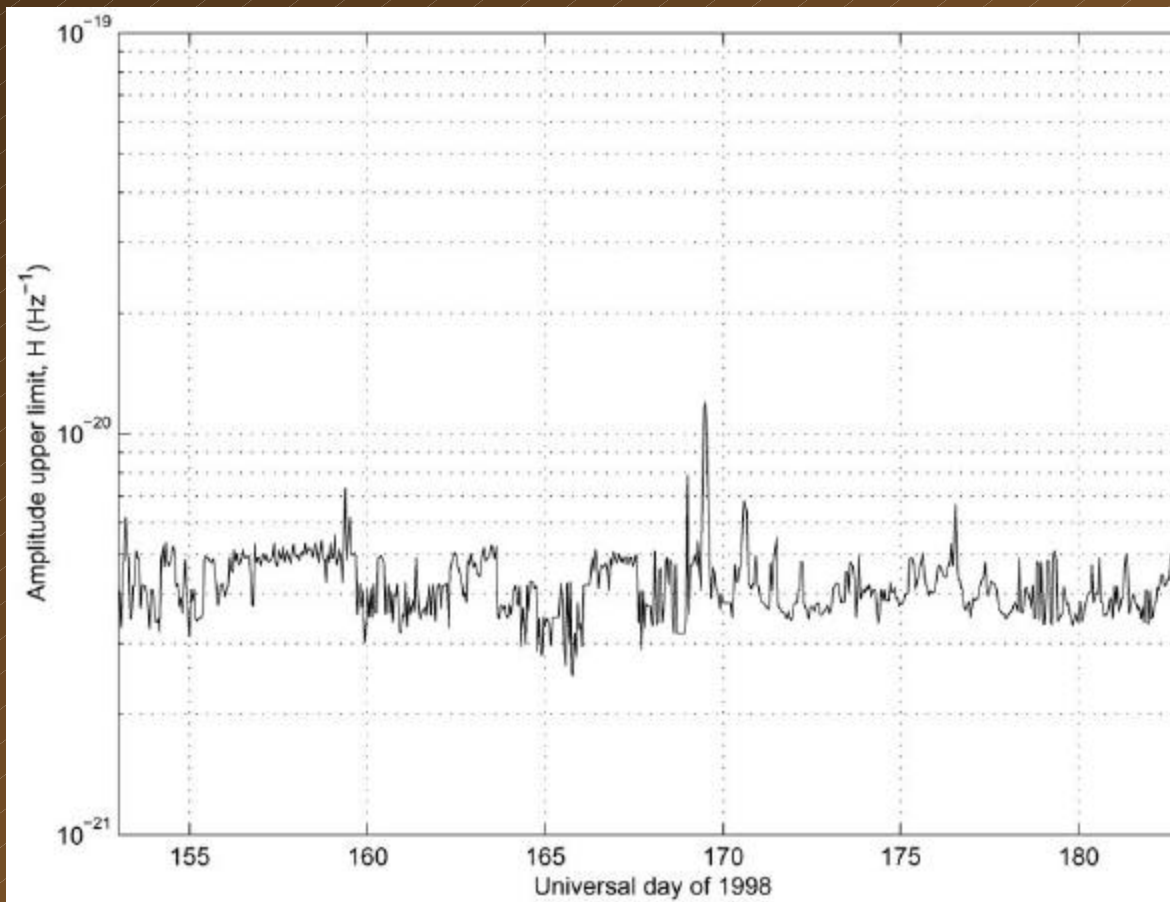


FIGURE 2. The upper limit, calculated hour by hour, for gravitational wave burst events. The vertical axis is the fourier transform of the burst amplitude at the bar resonant frequency.

Goal and Objectives

- ◆ We all want the most stringent upper limit possible.
- ◆ Multiple detectors improve the upper limit.
- ◆ We gain experience using data from different detectors.

Proposal

- ◆ Take advantage of IGEC's experience.
- ◆ Combine interferometer data and data from the IGEC network to get the best possible upper limit.
- ◆ Include IGEC in appropriate working groups.