AMBERNEWS Tests and fixes down in Argentina during the Collaboration Meeting Malargue, Nov.2011

**Roberto reporting** 

Rishi (+Patrick and Nathan) in action ...





UH MANOA, weekly meeting 11/22/11

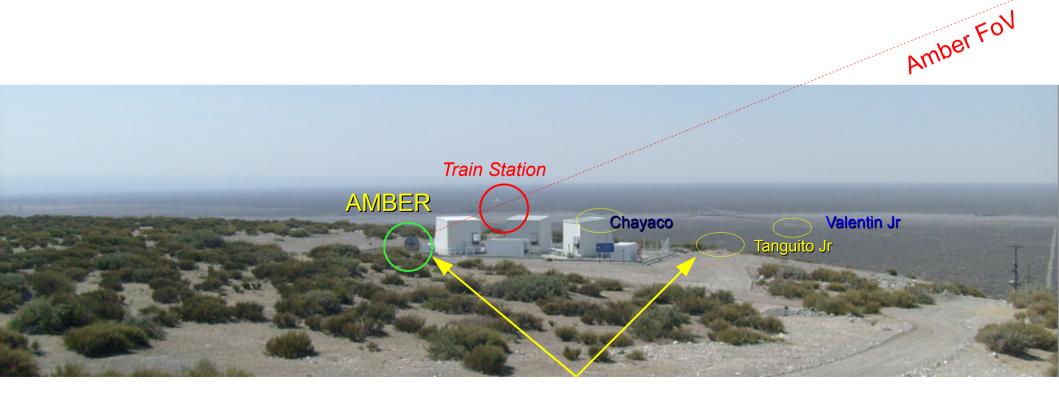
## Amber test with a 4GHz source



Rishi, Patrick, Nathan have tested the trigger timing during the previous week placing the 4GHz source on Coihueco terrace.

CDAS was modified to trigger Amber on reception of a trigger from only one tank (Tanguito Jr).

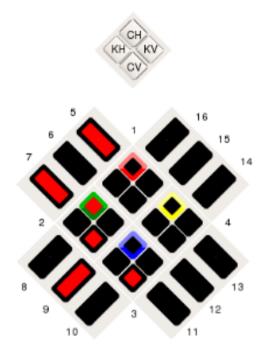
The gate DOES NOT come from the AND of Chayaco, Tanguito Jr, and Valentin Jr



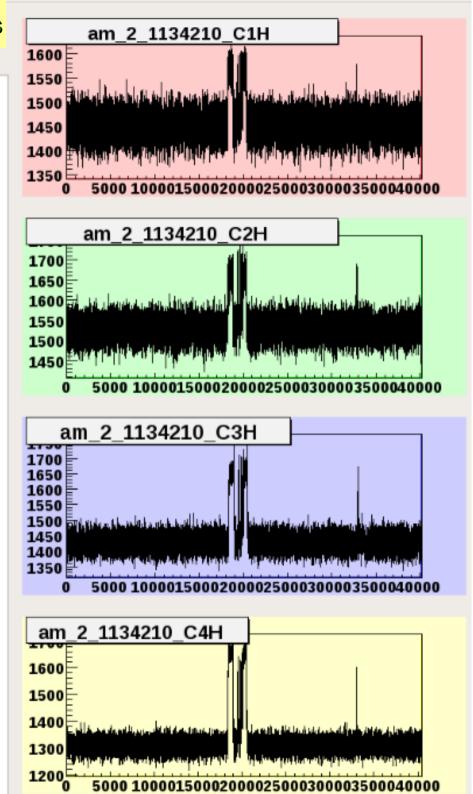
## Amber test with 4GHz source: preliminary results

Info 0: 5420 Info 1: 0

- Timing seems OK
- Multiple pulses are observed (bad debouncing).
- C3 works, now
- All other channels are OK



- The SD active tank list had to be updated to be able to see the newly installed INFILL tanks with Amber software.





Despite a few problems, the 4GHz source test was successful

Auger-Amber timing is OK, no 180 microsec offset is observed.

Channel 3 was fixed, and active tanks list was updated

Therefore we should have seen signals from the events in Amber FoV

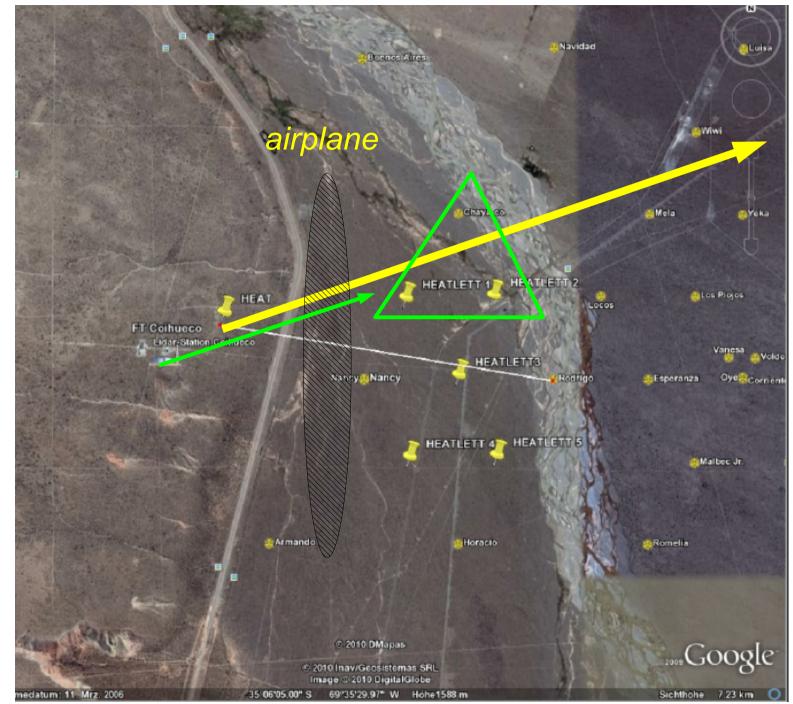
Next : work hard and set a limit ...

## Timing offset? Plan testing with a 4GHz source

Plan: Trigger: •Chaya-co •Heatlet-1=Tanguito Jr •Heatlet-2=Valentin Jr

Nov.2011: From Coihueco FD or Amber site to test SD-Amber timings;

Mar.2011: From airplane flying as shown To calibrate response to fast pulses



## 4GHz source tests @ Manoa

Signal pulse: 6  $\mu$ s, 4 Ghz, 0.3V@50 $\Omega$ 

<P> = 1mW ; E(pulse) = 6 nJ

With 100 Hz rep rate:  $\langle P \rangle = 0.6 \mu W$ 

Power amplifier ZHL-16W-43+ gain : 45.1 dB @4. GHz

Cables: switch to Power Amp 1dB Power Amp to antenna 3 dB

Attenuators: VAT-6 : 6.4 dB @ 4 Ghz

Two test cavities



