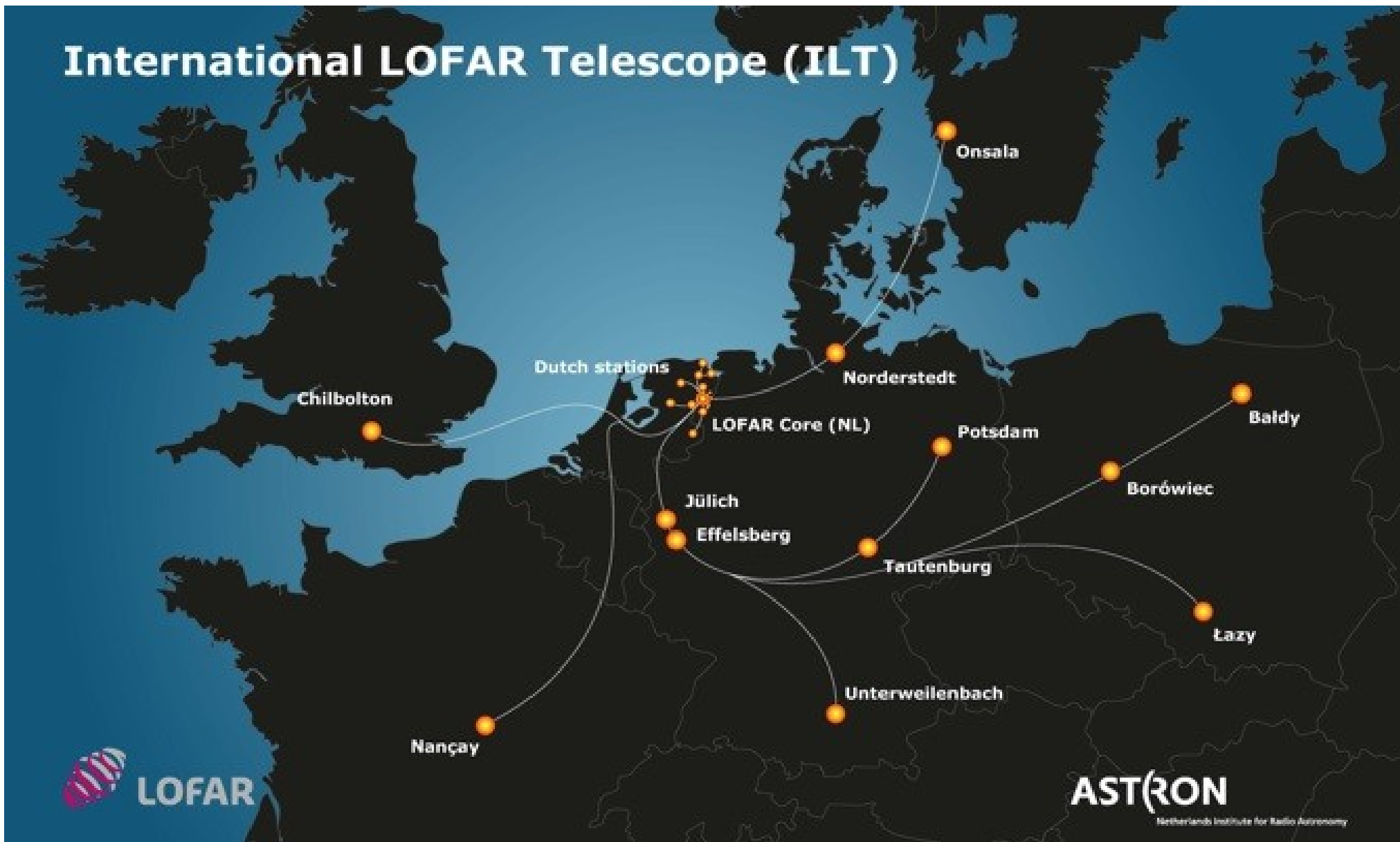


Some long baselines experiment with LOFAR+NenuFAR

International LOFAR Telescope (ILT)



Some long baselines experiment with LOFAR+NenuFAR

International LOFAR Telescope (ILT)

- LOFAR/VLBI = High resolution
- LOFAR + NenuFAR :
 - More sensitive baselines
 - Deeper HR Images
 - Easier to calibrate (!...)



Dutch stations

Onsala

Chilbolton

Norderstedt

LOFAR Core (NL)

Potsdam

Baldy

Jülich

Borówiec

Effelsberg

Tautenburg

Łazy

Unterweilenbach

ASTRON

Netherlands Institute for Radio Astronomy

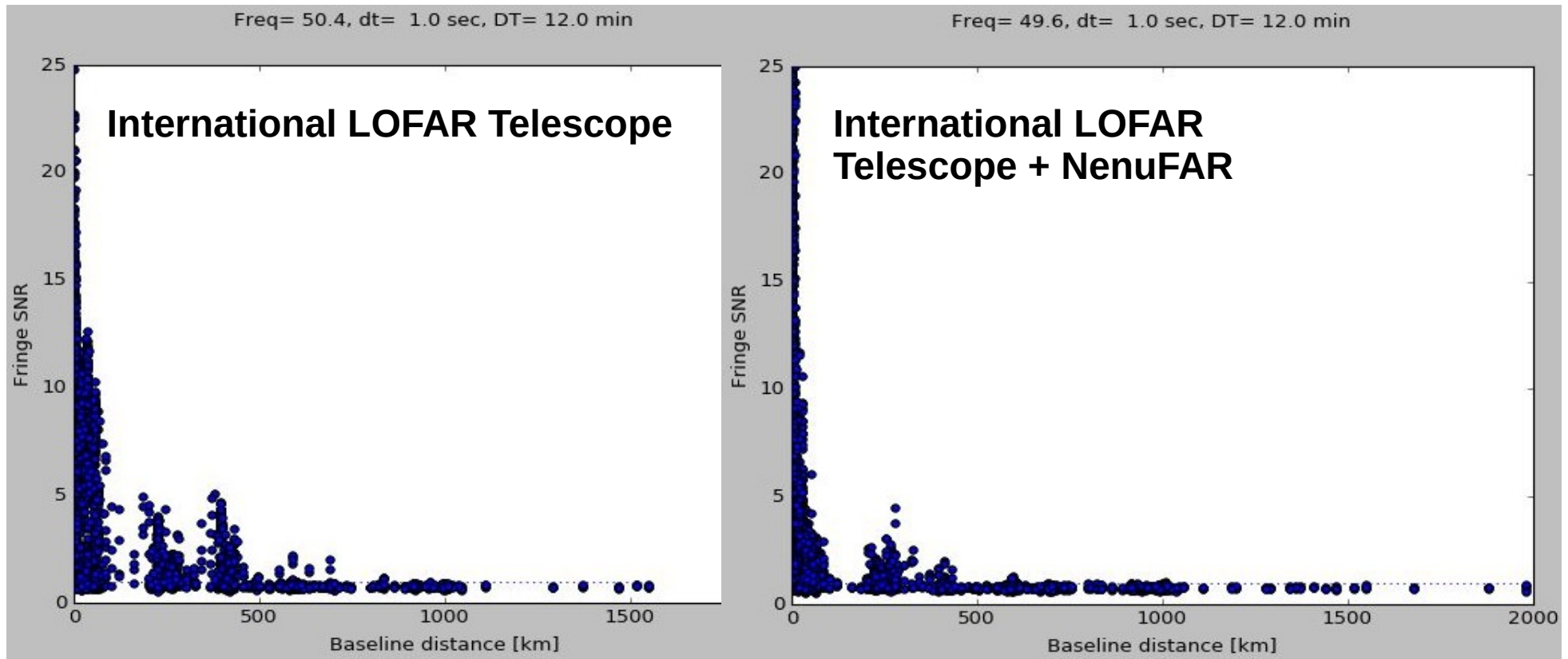
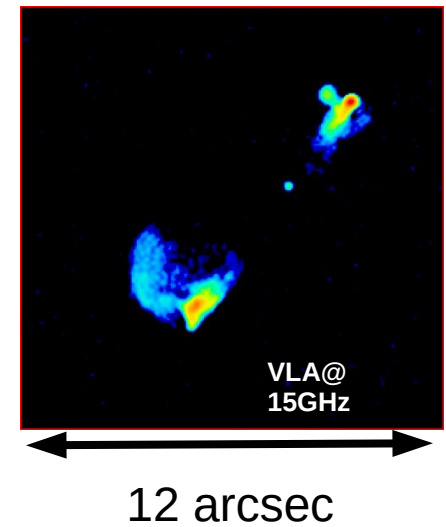
Ou nous en étions...

Arno Schoenmakers & Sarvesh Seethapuram Sridhar

- 3C295 : failed
- CygA : Source too extended → no fringes

Demande de réobserver 3C295 :

- 3C295 Not compact enough to high enough SNR over short time on BL > 500km

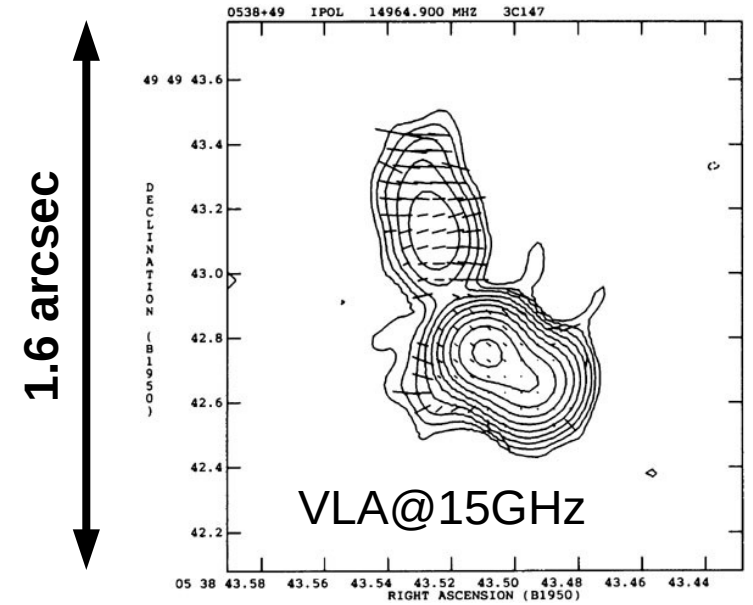


Y-axis : $\max(\text{FFT}/\text{ligne de base})/\max(\text{même sigma})$

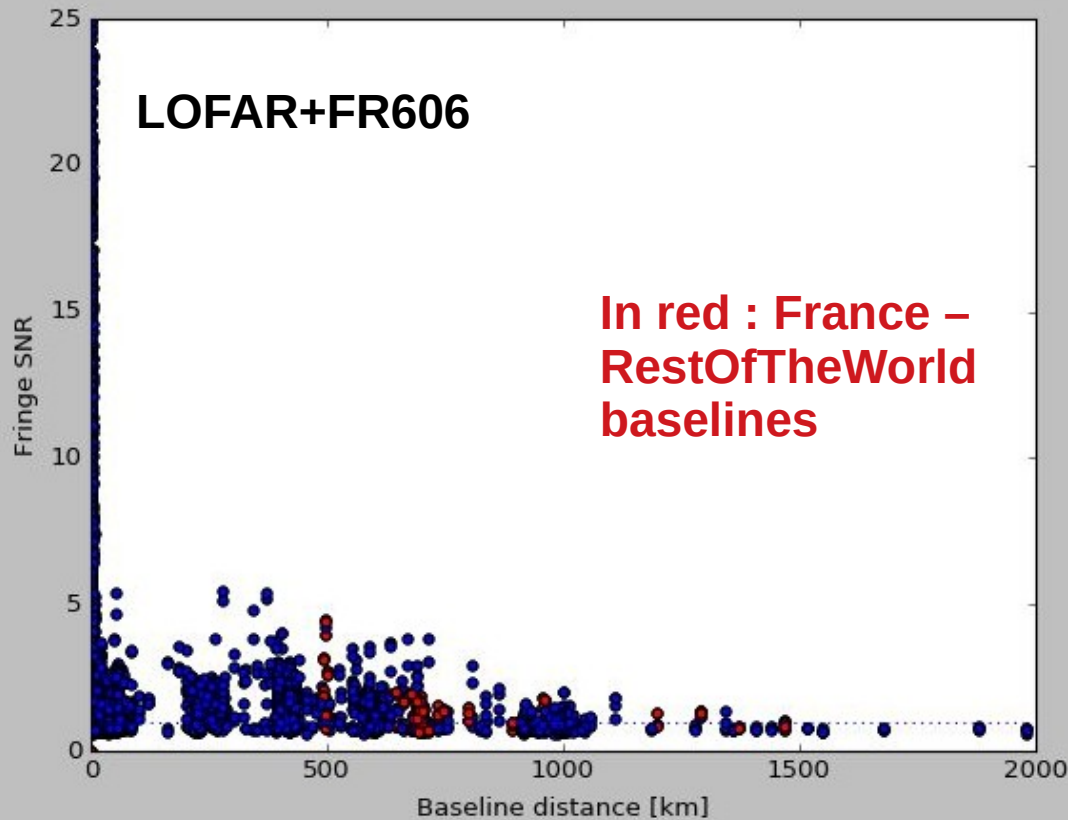
3C147 @50MHz

Leah Morabito + Neal Jackson suggested 3C147:

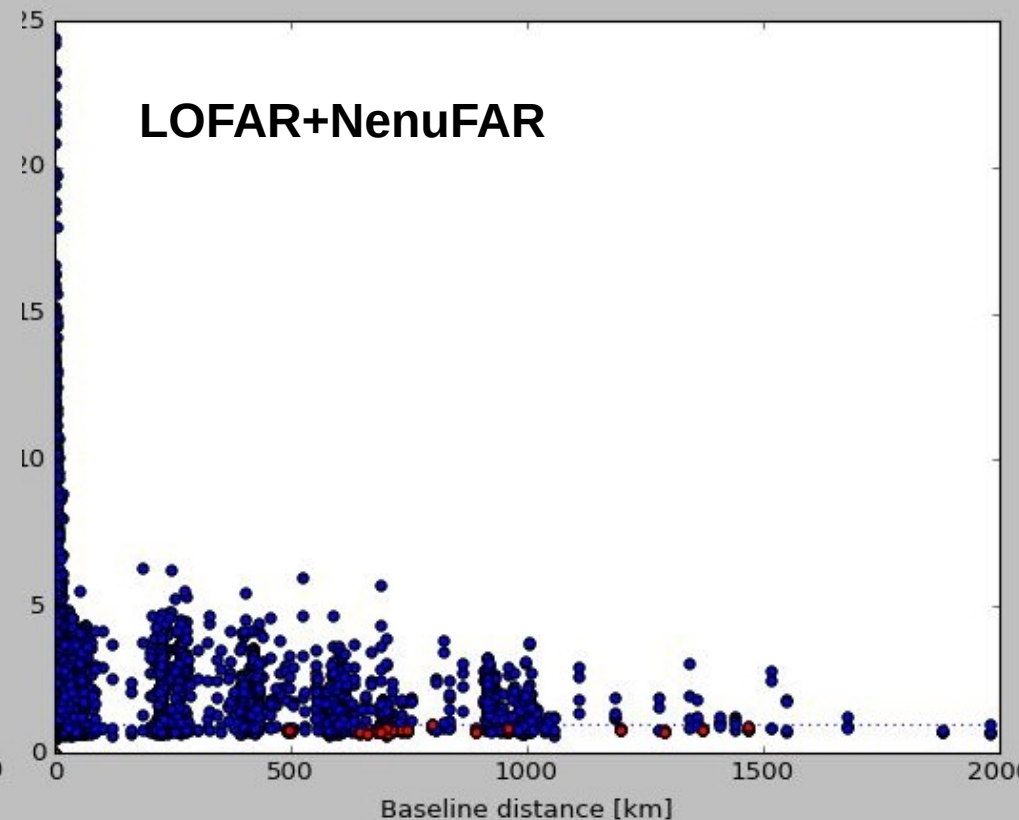
- 2x15min scan
- LOFAR+FR606
- LOFAR+NenuFAR



Freq= 66.4, dt= 1.0 sec, DT= 15.0 min



Freq= 66.4, dt= 1.0 sec, DT= 15.0 min



Houston we have a problem....

« [...] approximately one million two hundred seventy six (1.000.276) different things can go wrong.

- did all data arrive at COBALT (no data gaps)?*
- NenuFAR position files in COBALT?*
- timestamps in the data (value and format - easy to check)?*
- different scaling (NenuFAR being more sensitive than FR606)?*
- ... »*

Jean-Mathias Griessmeier

Jean-Mathias Griessmeier, Philippe Zarka, Julien Girard, Cedric Viou(?),
Andree Coffre, Laurent Denis, Sarrvesh Sridhar, schoenmakers(?)

++ interested people...

- **Julien Girard + Jean-Mathias Griessmeier**
 - **Replacing FR606 ← NenuFAR : ? XST, BST, SST**
 - **Obs. Transits+Pulsars**
 - **Modified configuration files**
 - **Found a few bugs (cable length no properly taken into account – perhaps a small effect))**
 - **Cables between the two containers not taken into account**
 - **Astron knows about bugs**
 - **Analyse of other data undergoing (JMG+JG)**