

## 2011 Jan 10

James M Anderson, Masaya Kuniyoshi, and Andreas Horneffer went to Effelsberg to check on a broken rubidium clock and swap out broken RCU boards.

The rubidium clock produces a 5 MHz sine wave output, but no 10 MHz output nor the 1 PPS output. The LOFAR station is totally useless without these signals for operation. Menno Norden at ASTRON contacted to find out whether or not they have a spare.

### RCU board changes:

RCU8: 638001069(old) --> 063002013(new)

RCU12: 06-38-002-049(old) --> 06-32-001-086(new)

RCU44: 0638002087(old) --> 0638002012(new)

RCU54: 0638002061(old) --> 06-32-002-039(new)

RCU68: 0638002067(old) --> 06-32-002-024(new)

RCU130: 0638002064(old) --> 0638001042(new)

RCU138: 0638001019(old) --> 0638002081(new)

RCU150: 0638002051(old) --> 0630002017(new)