

meteoLCD Weblog

A weblog on climate, global change and climate measurements

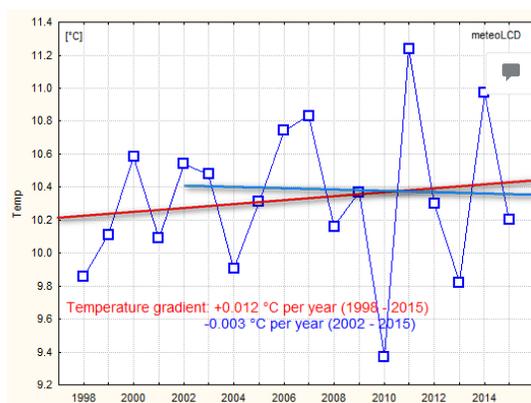
« Higher CO2 boosts coccolithophores

Climate trends at Diekirch, Luxembourg: part 2a (atmospheric CO2) »

Climate trends at Diekirch, Luxembourg (part 1: air temperature)

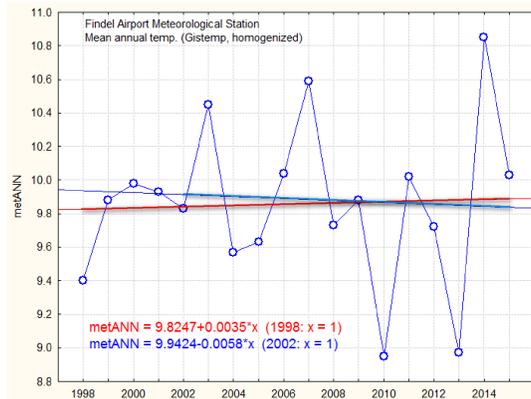
I finished a couple of days ago the annual computation of [climate trends](#) calculated from the measurements at meteoLCD, Diekirch (Luxembourg). As usual, the numbers show a much less spectacular evolution than the emotional media reports suggest.

1. Lets start by the ambient **air temperature**:



The thermometers have not been displaced since 2002: the calculated blue regression line for 2002 to 2015 shows no warming, but a very small cooling!

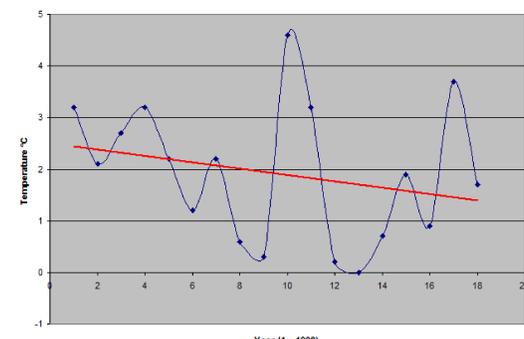
A very similar picture is given by the temperature data of our national meteorological station at the Findel airport. The next graph was made using the homogenized data of NASA's Gistemp:



Here the cooling rate for the 2002 to 2015 period is -0.0058 °C/year, quite negligible!

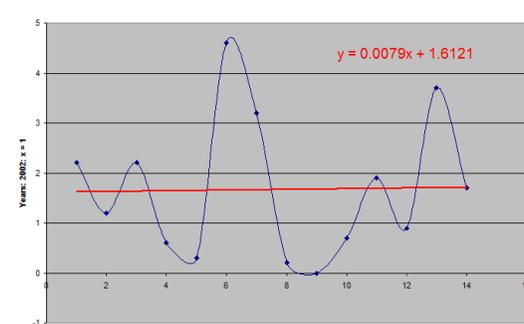
Did you hear the anthem "there are no more winters?" Actually this ongoing 2016 winter really seems absent, but the overall picture for 1998-2015 is a remarkable cooling:

Winter (D-J-F) temperatures at Findel airport



This plot of the December-January-February winter periods shows a visible cooling of 0.6 °C per decade at the Findel airport. If we restrict our analysis to the 2002-2015, there still is no serious warming to be seen at the Findel: just a meager $+0.08$ °C warming per decade, very close to zero.

Winter (D-J-F) temp. 2002-2015 Findel airport



Our Diekirch data for the 2002-2015 winters also show only a modest winter warming of 0.5 °C/decade and a good correlation with the [NAO \(North Atlantic Oscillation\)](#), a natural phenomenon which has a big influence on European climate: note how the trend lines of Diekirch, the Findel, Germany (DE) and the NOA index are very similar.

You might [compare](#) this with the January trend of the German weatherstations given at the [NoTricksZone](#) blog!

Finally let us finish this first part with a look on the DTR = daily temperature range = daily Tmax – daily Tmin. The global warming advocates always point to this measure as a sign for an ongoing warming caused by human activity: global warming should decrease the DTR, because it would make the nights warmer than the afternoons, and as a consequence decrease the DTR. Here our Diekirch data:

All trends are practically zero: $+0.2$ °C/decade from 1998 to 2015 and -0.1 °C/decade for 2002-2015.

So lets finish this first part with a first conclusion: **no big warming seen here in Luxembourg since at least 14 years!**

to be continued.....

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One Response to "Climate trends at Diekirch, Luxembourg (part 1: air temperature)"

[De temperaturen in Duitsland | klimaatblog](#) Says:
February 9, 2016 at 22:33 | [Reply](#)

[...] verlopen van de temperatuur en krijgt op veel plaatsen aandacht, zoals bij Francis Massen in Luxembourg en het Duitse plags van Die Kalte [...]

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