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## IPCC 2014: “Synthesis” vs. Observations and Facts

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In 2013 and 2014, the 5<sup>th</sup> IPCC Assessment Report concerning climate change has been published, containing three comprehensive part time reports with some 1000 pages each. Early in November, a “Summary for Policymakers” has been published, containing 40 pages [1]. This does not only contain severe contradictions, simplifications and even tampering as compared to the comprehensive reports, but is also in complete opposition to almost all observations and trends in nature. This even is recognized by the media usually on the alarmistic site [3]: “While the preceding climate reports strongly stick to the current situation with all its contradictions, the new synthesis report omits essential scientific findings”.

Politicians, the media and the guild of the established climate alarmists take this as a cause to produce further most dramatic abstracts and bold “worsening” of horror in future. As an example the “central messages” from BMU and BMBF [German political minister-institutions of the federal government] are shown [2].

Here in following is given in a nutshell, the statements of these government departments along with statements from the media will be compared with both the detailed statements made by the comprehensive part time reports and the observed facts in nature.

### (1) Air Temperature

#### Claim:

“If business as usual goes on, we will run out of possibilities to limit the temperature rise within the next few decade , UN secretary general Ban Ki-Moon warned.” [4],

... o r :

“The warming of the climate system is unequivocal...” [2],

... o r :

“Not limited emissions of greenhouse gases will presumably warm the climate until the end of this century by 0.3°C to 4.8°C ...” [3]

To this the German news magazine SPIEGEL-ol. writes [6] :

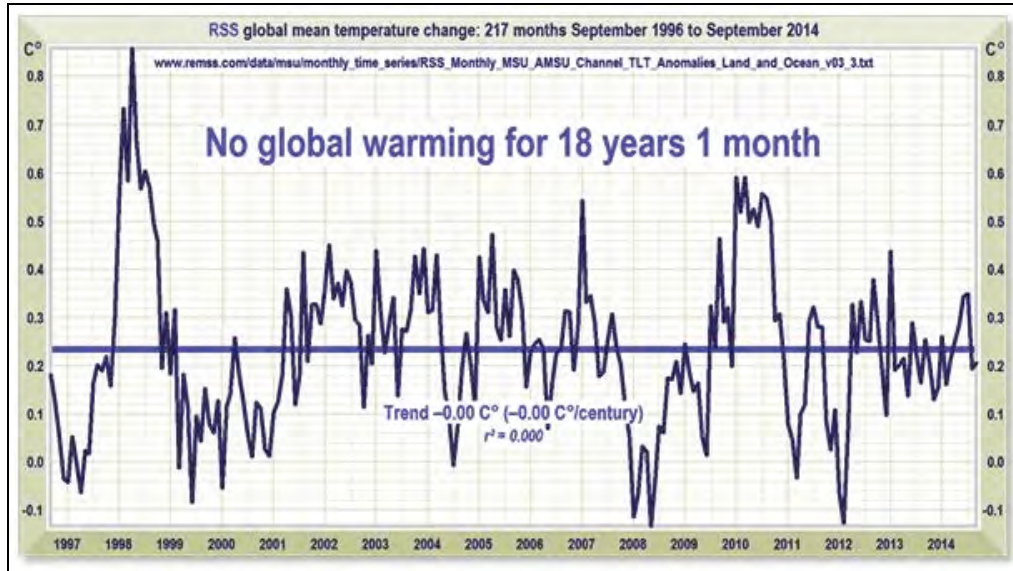
“no value within this range is more likely than another one.” !!

WOW! ... 0.3 to 4.8 ... this is a factor of 16! Maybe there is some more? ... or some less? ... then we would end at ZERO!

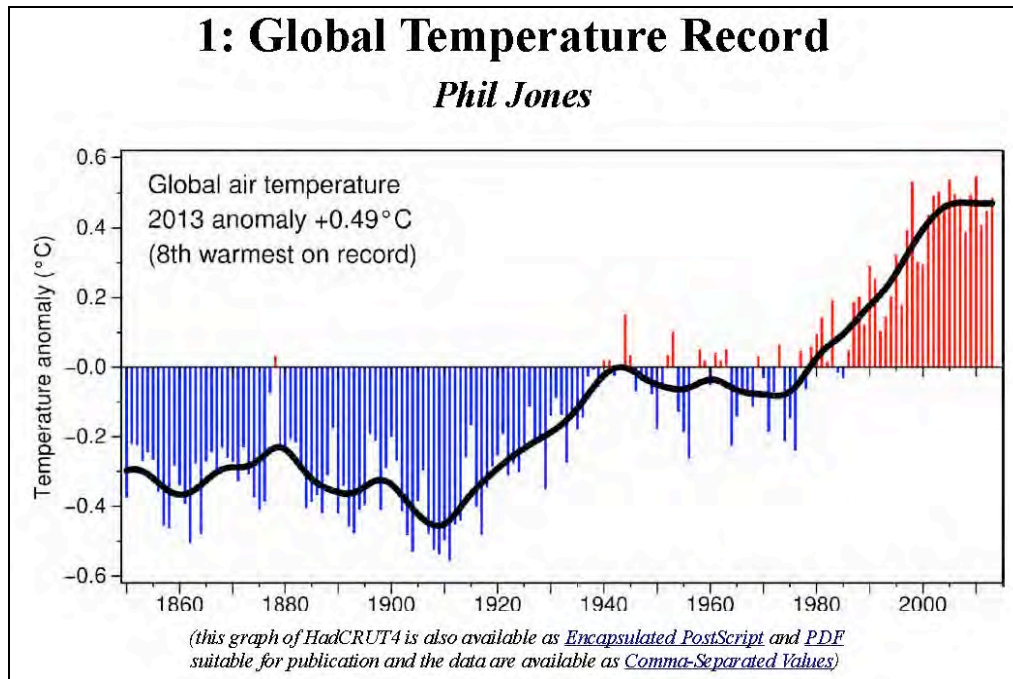
#### REALITY:

The observations of institutes close to the IPCC and the national weather services show :

**Since more than 15 years, there is no global temperature rise any more (!), despite continuously rising levels of CO<sub>2</sub> in the atmosphere.**



**Fig.1: Course of temperature 1997-2014**



**Fig.2: Course of temperature 1850-2013**

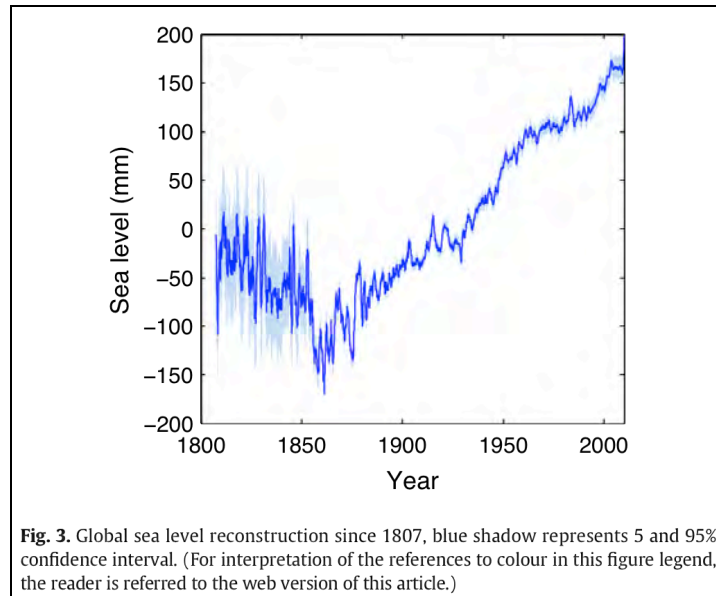
## **(2) Sea Level Rise**

### **CLAIM:**

*“The average global sea level will rise further this century, very likely so accelerating ... probably within the range of 26 to 82 cm...” [2]*

### **REALITY:**

Just a few time ago there has been published an analysis of more than 1000 gauges worldwide dating back up to 200 years [7]. There, no acceleration of sea level rise is detectable, instead, during the last decade, weakening has been observed ("plateau" => fig.3).



**Fig. 3: Sea Level Rise 1807-2009; 1277 Gauges [7]**

Although the authors did not include any regression line or polynomial in **fig. 3**, the following is clearly “visible”:

- () during the first half of the 19<sup>th</sup> century, sea level has decreased by 15 cm;
- () since 1860, sea level is rising – until present
- () since 1860, there are decadal phases of accelerating and slowing rises, whereas a trend acceleration is not detectable. During the last 10 years, there even is a plateau!?

These considerations are backed by these findings in the publication (from the abstract):

*"The new reconstruction suggests a **linear trend** of  $1.9 \pm 0.3$  mm/yr during the 20th century, with  $1.8 \pm 0.5$  mm/yr since 1970."* (Note: 1970-2008).

What this means:

The rising trend rate for the period since 1970 is lower than the rate for the 20<sup>th</sup> century as a whole! **Thus, the rise has slowed down during the 20<sup>th</sup> century until present.**

**There is no climate signal detectable.**

However, the study cited here [7] contains contradictory findings concerning the match between SAT data and gauges data during the last years:

*"There is an excellent agreement between the **linear trends** from GSL12 and satellite altimetry sea level since 1993, with rates of  $3.1 \pm 0.6$  mm·yr<sup>-1</sup> and of  $3.2 \pm 0.4$  mm·yr<sup>-1</sup> respectively."*

**Indeed: There is no acceleration in SLR, both trends are linear(!), whereas rises observed at gauges of about 3 mm/yr “since 1993” can be found nowhere, neither in fig. 3 nor in other examinations.** [8]

A comprehensive review of further publications finds [8]:

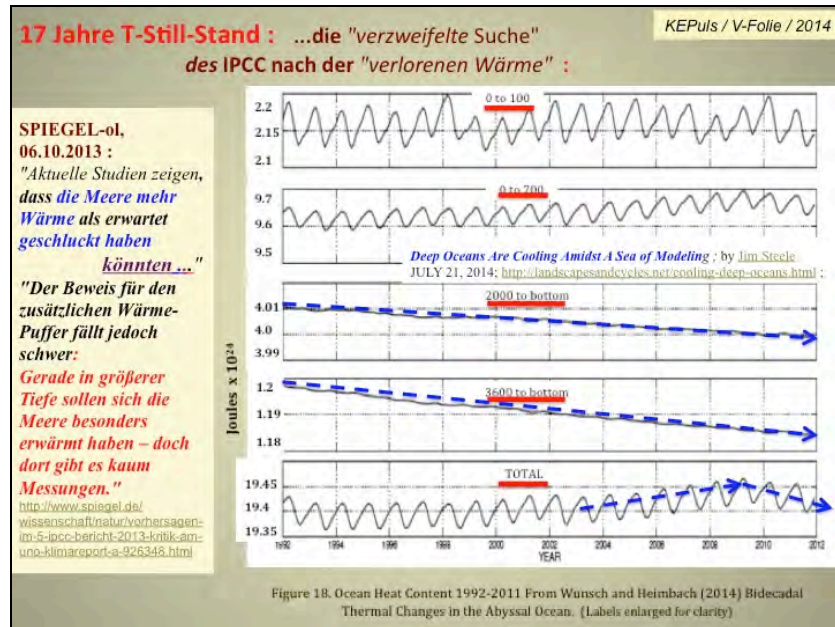
**S u m m a r y :**

*"The constantly issued alarmistic messages about supposedly dramatically rising sea levels at present and in the future cannot be confirmed by observations, but are debunked by measured data instead. Worldwide, neither the gauge measurements (200 years) nor satellite data (20 years) show an acceleration of sea level rise. In harsh contradiction to this are all statements by the IPCC, from some climate research institutes and the climate models."* [8]

### **(3) Sea Surface Temperature**

**CLAIM:**

“...led to energy uptake in the climate system. From this, during the last 40 years more than 90% has been stored in the oceans thus warming them” [2].

**REALITY:**

**Fig. 4: Sea Temperatures: No warming trend**

**(4) Storms****CLAIM:**

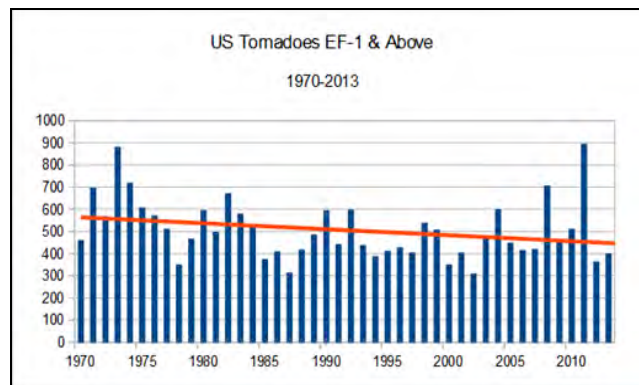
“Specifically, the amount of days with occurring thunderstorms with **many tornadoes developing simultaneously** has risen sharply, according to recent studies”. [13]

**REALITY:****In Germany:**

German Weather Service DWD: “The number of tornadoes has not increased. 20 to 60 Tornadoes are counted each year.” [14]

**In the USA:**

"Violent Tornadoes Are On The Decline In The US" [9]



**Fig.5: Decreasing trend with tornadoes in the US [9]**



Regarding storm systems at the Northern Atlantic and the North Sea, the Helmholtz-Zentrum in Hamburg has stated now [10]:

***“Our winter storms so far not influenced by climate change”.***

Further on it says:

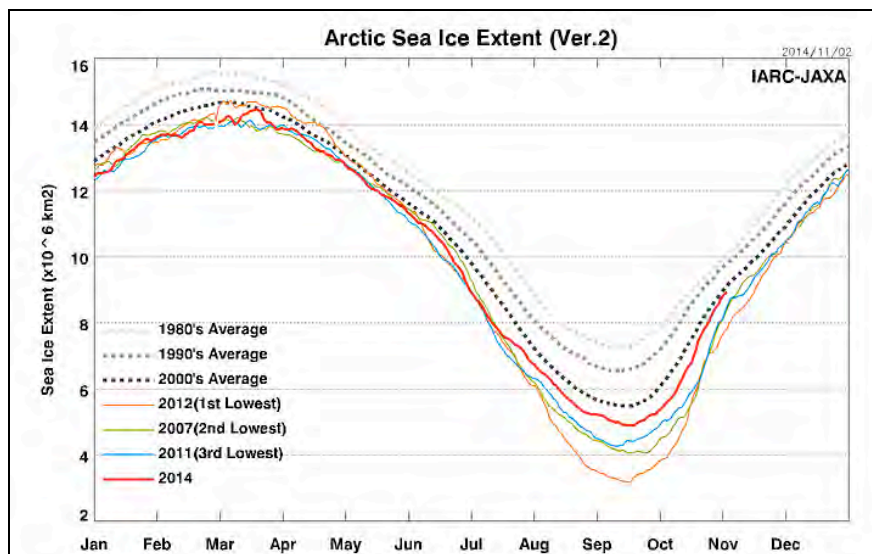
***“We find a decrease of storm activity from the early 1880s to mid 1960s, followed by an increase until the mid 1990s. Since the mid 1990s, storm activity has decreased again”.***

## **(5) Polar Ice Caps**

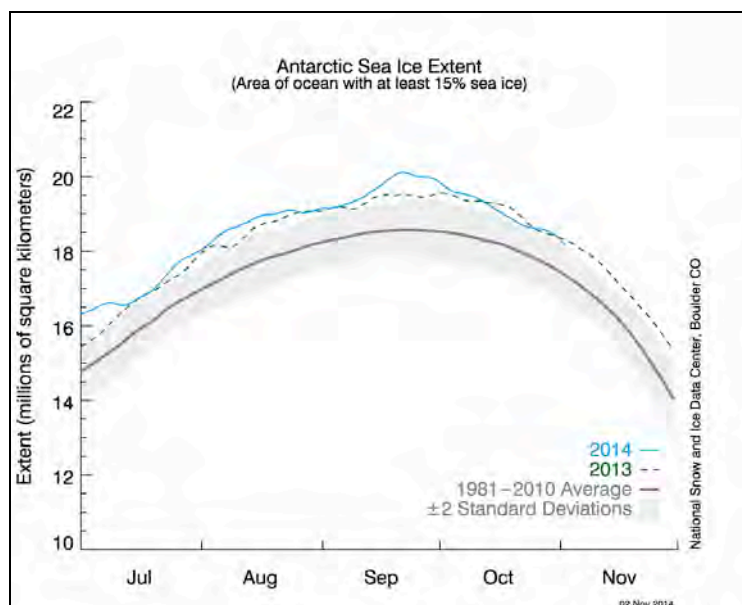
### **CLAIM:**

*“Sea ice in the Arctic is threatened by severe losses”* [3]

### **REALITY:**



**Fig. 6: Arctic ice is recovering; 2014 red [11]**



**Fig. 7: Century record of sea ice spread in Antarctica [12]**

The *Kronen-Zeitung* (a newspaper) in Vienna says about this [5]:

*“A huge increase in sea ice cover at the poles takes climate scientists by surprise and arises questions. Is the warming at pause? Also, solar activity has decreased significantly. The new numbers pose questions for the **climate change** prophets, because at the poles of Mother Earth, there an increase in sea ice is taking place that has not being seen since decades, in total contradiction to the forecasts”.*

... and further on:

*“Even the well respected BBC forecast not long ago, that the North Pole will be ice free by 2013. But now, everything has changed: Even before mid winter is starting up there, a **huge ice cap stretches half across the North Pole** – reaching from the Canadian islands to the northern coasts of Russia.”*

...and still further on:

*“This development seems to put worldwide climate research upside down, because **all IPCC climate models so far show exactly the opposite**”.*

## **(6) Extreme Weather**

### **CLAIM:**

*“Since about 1950, changes of many extreme weather and climate events have been observed...”*  
[2]

... o r :

*“More heat waves threaten”* [3]

### **REALITY:**

You don't need “skeptical people” because the IPCC itself to a great extend has drawn back from all extreme weather:

#### **(a) IPCC 2001:**

*“Recent analyses in changes in severe local weather (tornados, thunder days, lightning and hail) in a few selected regions provide not compelling evidence for widespread systematic long-term changes“.* [15]

#### **(b) IPCC 2014:**

*“Last report's warnings regarding **increasing extreme events like hurricanes, tornadoes or storms** meanwhile were classified as **of little confidence** – and have **not been cited again** in the new summary.”* [16] ...

*“Pielke calls **“continuing alarm of increasing river floods, droughts, hurricanes and tornadoes with regard to the meanwhile less alarming research findings a zombie science”**.”* [17]

#### **(c) Quotes from [IPCC AR5 WGI Chapter 2](#) 2013 [18] :**

- “There is limited evidence of changes **in extremes** associated with other climate variables since the mid-20th century”
- “Current datasets indicate no significant observed trends in **global tropical cyclone frequency over the past century ... No robust trends in annual numbers of tropical storms, hurricanes and major hurricanes counts have been identified over the past 100 years** in the North Atlantic basin”
- “In summary, there is low confidence in observed trends in small-scale severe weather phenomena such as **hail and thunderstorms** because of historical data inhomogeneities

and inadequacies in monitoring systems”

- “In summary, there continues to be a lack of evidence and thus low confidence regarding the sign of trend in the magnitude and/or frequency of **floods on a global scale**”
- “**In summary, confidence** in large scale changes in the intensity of extreme extratropical cyclones **since 1900 is low**”
- “Overall, the most robust global changes in climate extremes are seen in measures of daily temperature, including to some extent, heat waves. **Precipitation extremes** also appear to be increasing, but there is large spatial variability”
- “**In summary**, the current assessment concludes that there is not enough evidence at present to suggest more than low confidence in a global-scale observed trend in **drought or dryness** (lack of rainfall) since the middle of the 20th century due to lack of direct observations, geographical inconsistencies in the trends, and dependencies of inferred trends on the index choice. Based on updated studies, **AR4 conclusions regarding global increasing trends in drought since the 1970s were probably overstated**. However, it is likely that the frequency and intensity of drought has increased in the Mediterranean and West Africa and decreased in central North America and north-west Australia since 1950” ;

**Perhaps (?) we are just “allowed” to ask “simply” :**

*If there are no “signals of extreme weather” following 150 years of warming (until 1998 ; see IPCC statements above), why then are they supposed to occur more significant(!) within the next decades ?*

## **(7) Crop-Harvests**

### **CLAIM:**

*“Crops of wheat and corn predominantly are influenced negatively” [2]*

### **REALITY:**

*“While the former assessment reports referred strongly to the state of affairs with all its contradictions, **the new synthesis report omitted basic scientific findings**. This is especially eye catching regarding **forecasts** of the most complex environmental issues, for instance the **growth of grain, energy supply or wars**” [3]*

and :

*“According to satellite based findings of **CSIRO** in cooperation with the Australian National University (ANU), **it can be stated that this CO<sub>2</sub>-fertilizing correlates with an increase of green plants by 11%...**” [19]*

...and there further on:

*“**It is good news that a higher CO<sub>2</sub> content will enhance plant growth in arid zones and could help agriculture in these areas**”.*

## **(8) Extinction of Species:**

Here it is sufficient, in opposite to “*IPCC- Summary for Policymakers*” quote the devastating critics of SPIEGEL-ol.(a German news magazine) [3]:

*“**The bias is becoming specifically clear** in the statements concerning the forecast extinction of species: On behalf of this prognosis we read in the new synthesis report:  
A global warming of four degrees or more since the beginning of the industrial revolution (one*

degree already has been reached) means a high to very high risk of a significant species extinction. The rate of species extinction would be heightened. This prognosis by the models is 'highly confidential'. ...

**However**, the experts of the scientific subjects write regarding this in the UN climate report, respectively:

**Climate models cannot reflect basic key processes regarding the development of species in times of climate change: the ability to adaptation of genetic material and external attributes to new environmental conditions, the ability of spreading, the dynamics of populations, the effects of fragmenting habitats, interchanges between living symbiotic communities, the effects of rising CO<sub>2</sub>-contents on vegetation”.**

...and further on:

**“Studies published since the last assessment report 2007 challenged the ability of climate models to correctly predict the future risk of species extinction”.**

## **(9) "Mankind is the culprit!" - Really ?**

### **CLAIM:**

“...it is most likely that the human influence is the main cause of the observed warming since mid 20<sup>th</sup> century” [2]

and :

“...that mankind is the dominating factor for rising temperatures since mid 20<sup>th</sup> century” [20].

### **REALITY**

CO<sub>2</sub> is a greenhouse gas. However, absurdity of the debate is starting already with talks about CO<sub>2</sub> (almost) only, all other greenhouse gases are not mentioned at all.

**But:** drowning in CO<sub>2</sub> hysteria are the following questions:

- What was the portion of CO<sub>2</sub> of anthropogenic origin for the moderate(!) warming of 0.7°C during the 20<sup>th</sup> century in comparison with natural climate forcings?
- What can anthropogenic CO<sub>2</sub> do as an additional effect to the natural CO<sub>2</sub> in the future? (in literature referred to as “climate sensitivity”)

To this AR5 2014 [1a]:

**“No best estimate for equilibrium climate sensitivity can now be given because of a lack of agreement on values across assessed lines of evidence and studies.”**

**These are the physical facts in a nutshell:**

- () **“A doubling of CO<sub>2</sub> concentrations in the atmosphere alone will produce just very little warming of the mean surface temperature by a few tenth of a degree” [21]**
- () **IPCC 1995 [22]: “In the middle of the absorbing band around 15 μm additional CO<sub>2</sub> has almost no effect at all...”**
- () **IPCC 2007 [23]: “In the idealized situation that the climate response to a doubling of atmospheric CO<sub>2</sub> consisted of an uniform temperature change only, with no feedbacks operating ... the global warming from GCMs would be around 1.2 °C.”**

To reach the “catastrophic warming values” about 3... 4... 5 degrees warming repeated continuously in the media, the climate models need hypothetical “secondary amplifying processes”, most of all the so called “water vapor amplification”:

**IPCC 2001 [24]:**



*"Water vapor feedback now as before is the most important feedback process causing the global warming by a doubling of CO<sub>2</sub> predicted by the General Circulation Models."*

**But – how embarrassing – this is a construction, because meteorological observations show just the opposite, as indicated by reviewing literature: [25]**

“S u m m a r y :

*With a doubling of CO<sub>2</sub> in a real, water vapor containing atmosphere, the additional greenhouse effect based on measurements in a laboratory will be just about ½ degree. The models of the IPCC linked institutes therefore do not show the warming values of 2 ... 5 degrees by CO<sub>2</sub>, but with amplification assumptions, in particular water vapor amplification. Thus, following the secular warming of about 0.7°C in the 20<sup>th</sup> century, on one hand the content of water vapor in the atmosphere should have increased measurable, on the other hand temperature rise will accelerate from year to year. Both is debunked by meteorological observations: neither in the troposphere nor in the stratosphere, such trends are observed, instead there is a slight trend towards less water vapor and as well to less evaporation at the surface. beside that, the global temperature remains static since 15 years”.*

News-Magazin SPIEGEL-onl. says on this behalf [26]:

*“Since the beginning of this century, evaporation is ceasing everywhere because warming of the air is in pause”.*

... a n d [27]:

*“More heat will lead to more water evaporating – causing more rain. This cocktail party equation may sound simple, but unfortunately has nothing to do with real weather processes...”*  
*“But in our measurements, we don't find increasing precipitation”, lamented Andreas Becker at the German weather service DWD”...*

*"Or can it be that the equations are wrong?"*

*"For the researchers, this is a huge puzzle, Becker admitted."*

(Note: Andreas Becker is the head of the World Center of precipitation climatology, DWD).

**All this real and objective physical background is at least unknown to the media and politicians and therefore the citizens as well.**

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### **CONCLUSIONS:**

**In the IPCC assessment report *Summary for Policymakers* ([1] 40 pages), published in November 2014 the IPCC contradicts widely its own (!) comprehensive part time reports published between late 2013 and early 2014 (some thousand pages). The *Summary* statements also are in blatant contrast to almost all trend measurements in nature during the last 150 years.**

**SPIEGEL-ol. says on this behalf: "*Final IPCC report: at the IPCC, alarm is coming before accuracy ... the document was supposed to report unemotional about research – but key contradictions have been omitted ... knowledge omitted ... But while former climate reports (note: AR 5 2013/2014) kept strongly to the facts with all their contradictions, the new synthesis reports omitted significant scientific findings*".**

**Thank's – this will do!**

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*Translated by Chris Frey (EIKE)*

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