

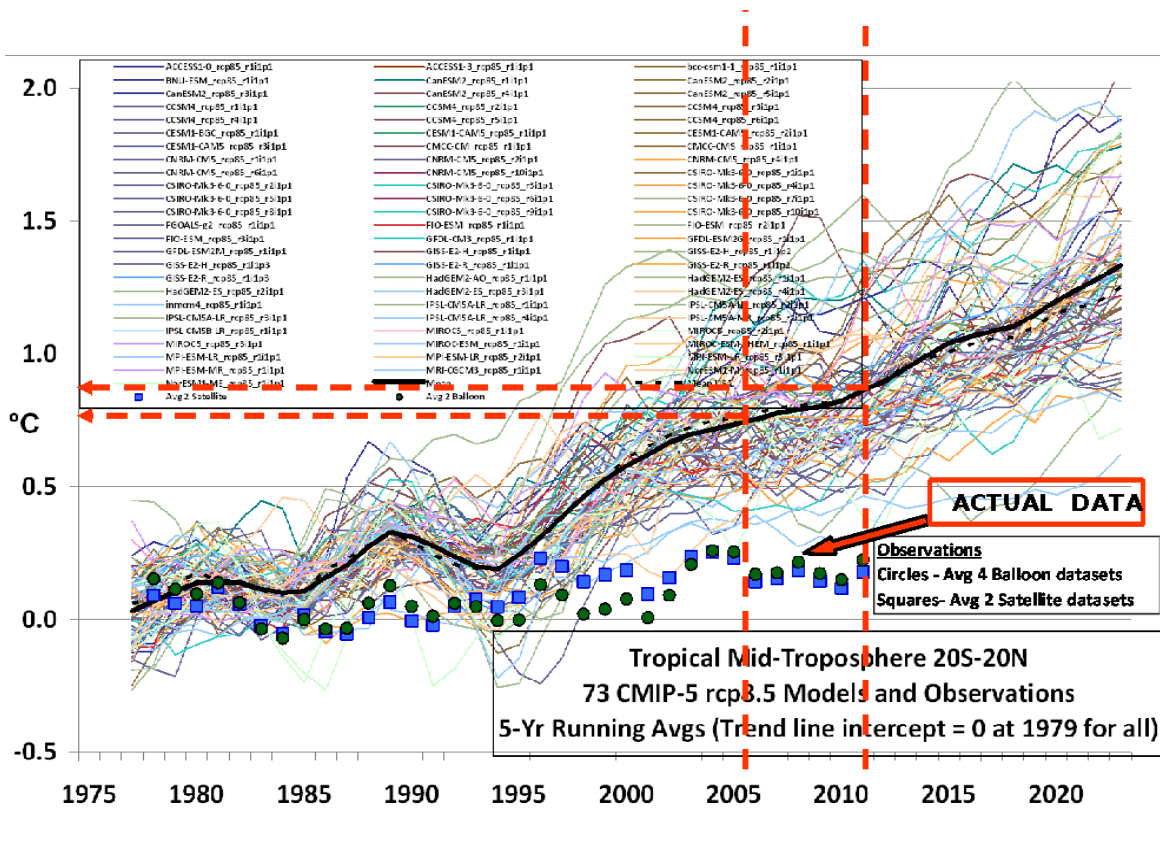
# CLIMATE CHANGE 1

## ACTUAL MEAN WORLD TEMPERATURES – versus - FAILED THEORETICAL MODEL TEMPERATURE PREDICTIONS

### **LARGE OVER-PREDICTIONS of ALL 73 CLIMATE MODELS**

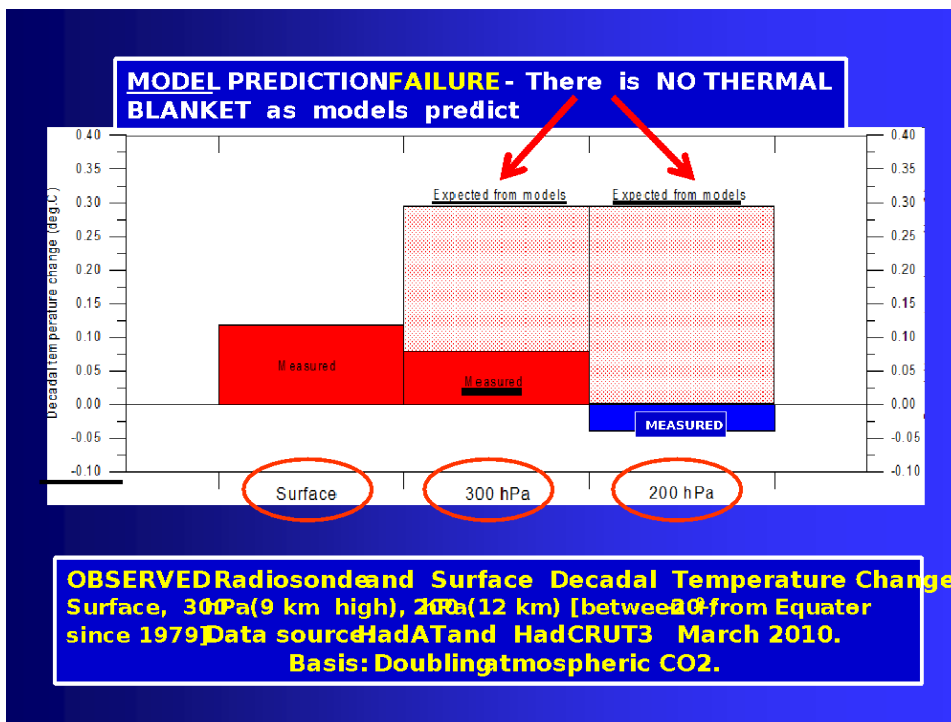
- **ALL** 73 Climate Models have *OVER-PREDICTED* Mean World Temperature from 2005 to 2013 [See reference \* below graph]
- The **ONLY** time the 'predicted' Mean World Temperatures were close to **ACTUAL** Measured mean values was in 1979 – 1982
- The **ACTUAL** temperature RISE from (1979 -1982) to (2005 -2013) was  $<0.3^{\circ}\text{C}$  whereas the mean **predicted** value from 73 models (See reference \* below graph) was about  $0.8^{\circ}\text{C}$  [**>266% higher**] [*From the Graph - Circles: result from 4 balloon data sets, Squares: average of 2 Satellite data sets*]
- **CONCLUSION**: **NONE** of the models is accurate. The trend as shown indicate that the predictions will get worse and will increase in inaccuracy. Clearly the magnitude of the 'feedbacks' is not correct. **ALL MODELS HAVE FAILED, and this has been at such a massive expense!**

**THE BIGGER PROBLEM!** Many countries, Weather Bureaus, Climate Research Centres, Universities, and the IPCC (United Nations) have put more trust in theoretical models than *actual* published measured Satellite and Radiosonde (Balloon) data. Although the attempts are valiant and models are needed for prediction and research, much is still unknown about all the causes of climate change, and there is still a long way to go before they can be trusted (*as someone has said, 'they cannot even predict the past'*).



\* Reference: Dr Roy W Spencer (website: [www.drroyspencer.com](http://www.drroyspencer.com)) [6<sup>th</sup> June 2013] [A comparison between 73 CMIP5 models (archived at the KNMI Climate Explorer website) and observations for the tropical bulk tropo-spheric temperature (aka "MT") since 1979]

The actual measurements of mean temperature clearly show that temperature decreases with increasing elevation, and models do not.



Professor Emeritus Geoffrey G Duffy  
DEng, PhD, BSc, ASTC Dip., FRS NZ, FIChemE, CEng