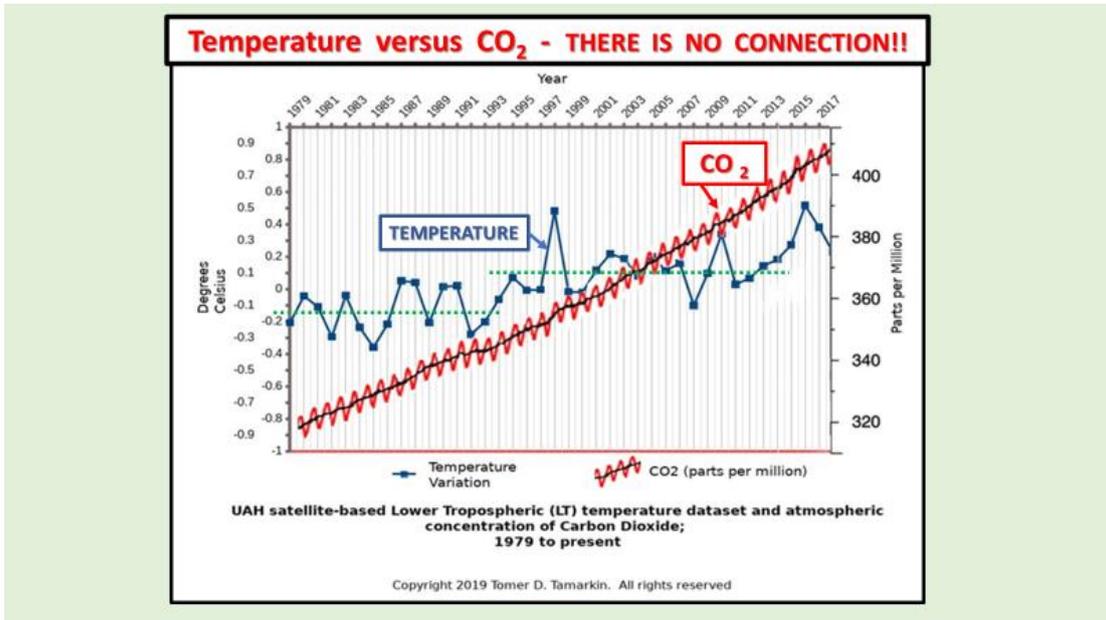


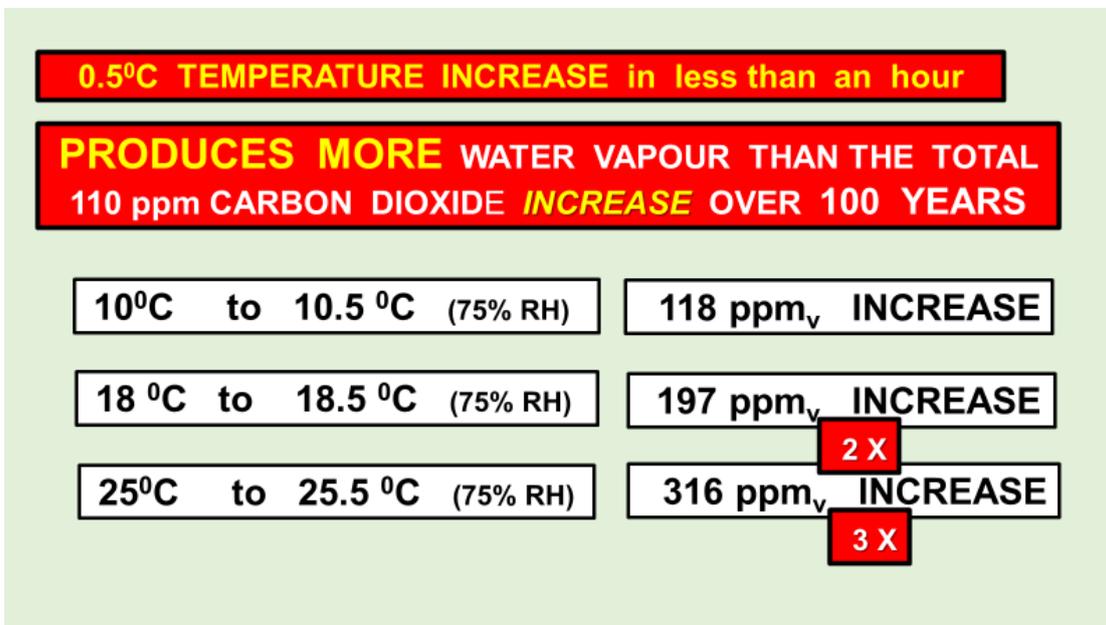
# CLIMATE EMERGENCY!! WHERE??

- **Temperatures** have been going **up** and **down** by 6°C to 10°C **DAILY**. Did anyone die from that? [The worldwide mean atmospheric temperature has increased by **ONLY 1°C in the last 100 years** – inconsequential!] **NO EMERGENCY!**
- **Carbon Dioxide CO<sub>2</sub>**: goes UP about 2+ ppm/year overall. BUT CO<sub>2</sub> goes **UP 10 ppm** every 6 months and **DOWN 8 ppm** in the next 6 months [See Figure 1]. Air temperature does NOT follow that half-yearly oscillatory trend at all! **NO EMERGENCY!**
- **Carbon Dioxide CO<sub>2</sub>** has gone up continuously by about 0.06% / year [330 parts per million ppm (1979) to 408 ppm (2018)] in 40 years]. The **MEAN TEMPERATURE** has been **CONSTANT for two separate periods** in the last 40 years [1979 to 1993 (14 years); 1995 to 2013 (18 years)]. TEMPERATURE INCREASES are **NOT RELATED** to CO<sub>2</sub> INCREASES! [See Figure 1]. **NO EMERGENCY!**
- **Water vapour is the strongest Greenhouse gas**: In New Zealand, the atmospheric concentration of water vapour is approximately 1% (at 20°C and 75% relative humidity), which is 25 times greater than carbon dioxide (0.04%) and 500 times greater than man-made carbon dioxide. **NO EMERGENCY!**
- **Water vapour changes per day: Far greater CHG effect than ALL the CO<sub>2</sub> increase in the last 100 years**: Example: (Humidity Tables on the Web) Taking a simple 0.5 °C change (*which can occur in minutes, or hours*), shows clearly that this small change at a constant Relative Humidity can produce **more** water vapour than the CHG effect of ALL of the CO<sub>2</sub> INCREASE (100+ ppm) in the last 100 years. [See Figure 2]. **NO EMERGENCY!**
- **Sea Level changes**: Less than 2mm rise/year. **Nowhere** in the world, in any country or any city, is there ANY sudden **increase** in the **RATE** of change of sea level [See Figure 3] There is NO kick-up or sudden increase in sea level ANYWHERE in the world!. Auckland data for over 100 years: The yearly rise was constant at less than 2mm/year. **NO EMERGENCY!**
- **Tidal Changes and ocean currents**: Vary widely by time, location, season, coastal topography, currents, closeness to the moon, and other effects like storms and gales. **NO EMERGENCY!**
- **Greenhouse Gas Errors**: The atmospheric concentration of water vapour in New Zealand varies around a mean of about 1% (10,000 ppm), whereas for Carbon Dioxide it is about 0.04% (410 ppm), for Methane it is only 0.00018% (1.8 ppm), and for Nitrous Oxide it is only 0.3 ppm (0.00003%). i.e., the atmospheric concentration of **Water Vapour** is approximately 24 times greater than that of CO<sub>2</sub>, 500 times greater than that of man-made CO<sub>2</sub>, over 5,000 times greater than that of Methane, and over 33,000 times greater than that of Nitrous Oxide. [See Figure 4] **NO EMERGENCY!**
- **Floating Sea-Ice amounts in the ARCTIC and ANTARCTIC are healthy and normal**: Arctic Sea Ice in 2020 is about the same as for 2012. Antarctic floating ice is virtually unchanged. Arctic and Antarctic sea ice both decrease by over 11 million km<sup>2</sup> in 6 months and increase again in the 6 next months [See Figure 5]: equivalent to 1.4 times the area of Australia disappearing and reappearing every 6 months. There is no sustained effect on the Polar Ice caps. **NO EMERGENCY!**
- **Incoming Solar and Outgoing radiation from Earth is dominated by Water Vapour**: Physics, specifically atomic absorption spectroscopy, shows that Carbon Dioxide has only TWO absorption wavelengths for solar energy (Water Vapour has 7); and TWO absorption wavelengths for re-radiation from Earth (Water Vapour covers over 85%). GHG Water Vapour is clearly number 1 in both radiation and concentration! [See Figures 6 and 7]. No great changes at all. **NO EMERGENCY!**

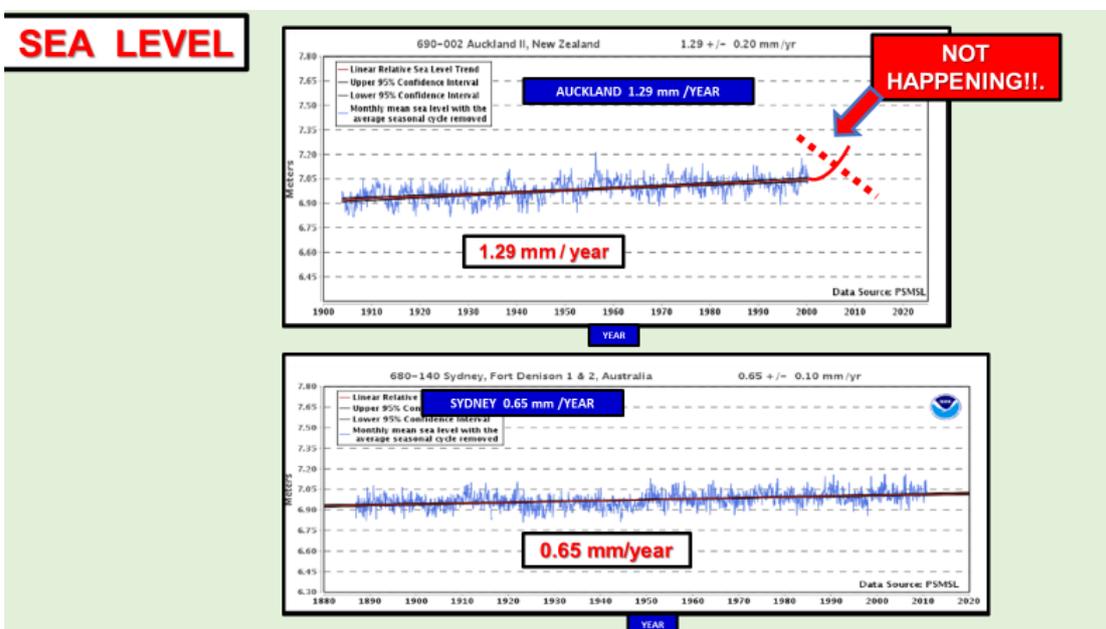
**FIGURE 1**



**FIGURE 2**



**FIGURE 3**

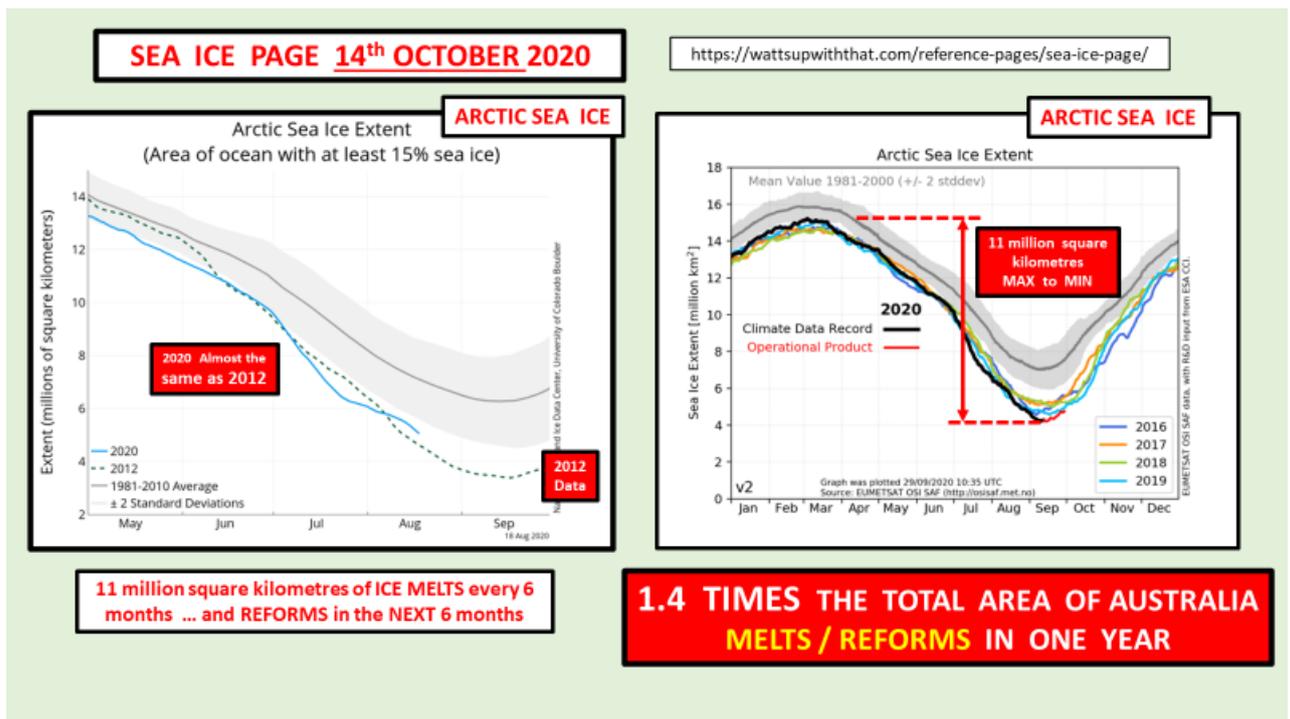


**FIGURE 4**

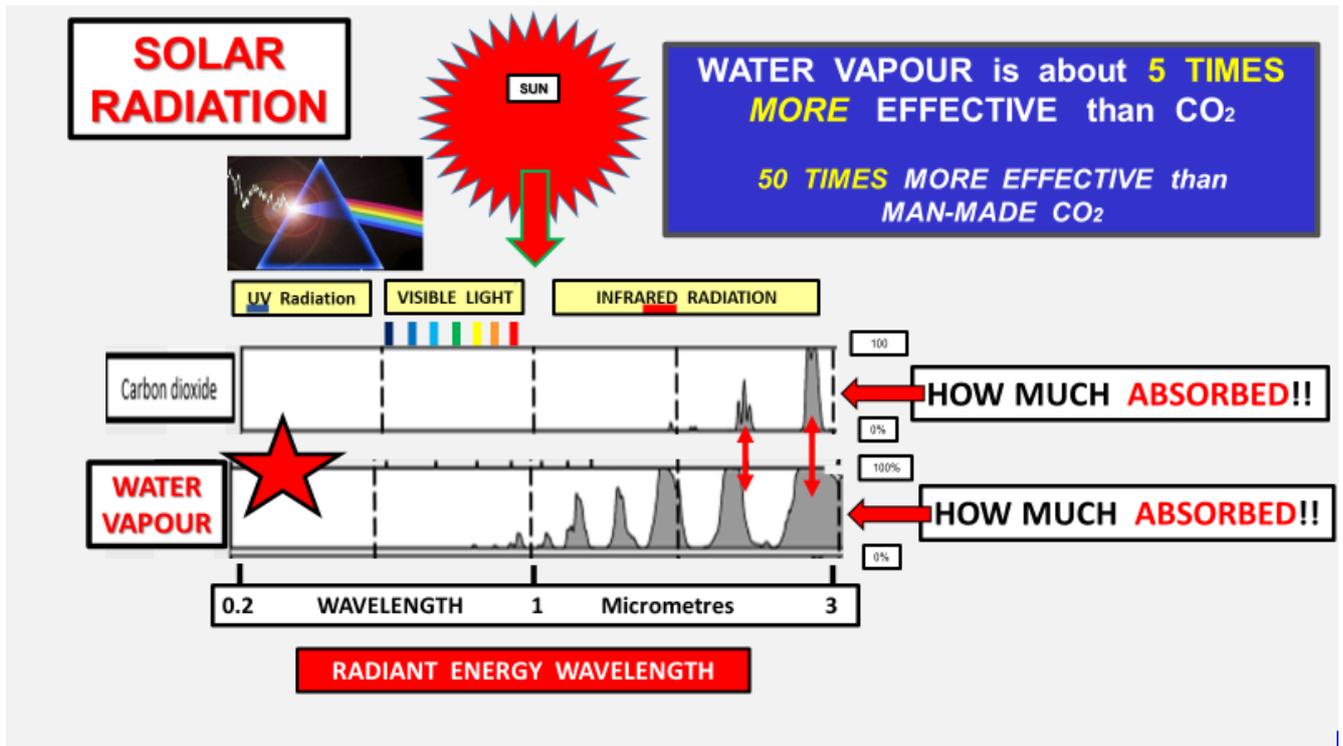
Table 2 Radiation-absorbing/emitting Greenhouse Gases: only 1.028% of the total atmosphere of which water vapour is 1% at 20°C and 75% Relative Humidity

GAS		Volume ppmv	GHG Volume %	Comment
1. Water Vapour	H <sub>2</sub> O	10,000	96.0%	Over 24 times greater than CO <sub>2</sub> at 20 °C (more than 450 times greater than MAN-MADE CO <sub>2</sub> ). In the tropics: Can be over 100 times greater than CO <sub>2</sub> (>2,000 x man-made CO <sub>2</sub> )
2. Carbon Dioxide	CO <sub>2</sub>	414	3.98%	About 221 times greater than methane. Total CO <sub>2</sub> is 410ppm; naturally produced CO <sub>2</sub> is about 20 times more than man-made CO <sub>2</sub> (man-made CO <sub>2</sub> is less than 22ppm)
3. Methane	CH <sub>4</sub>	1.79	0.018%	About 40% naturally produced: wetlands, soil, ground natural gas, sediments wildfires, ocean floor, volcanoes. Less than 60% man-made: Industry, agriculture, waste processing, landfills
4. Nitrous Oxide	N <sub>2</sub> O	0.3	0.0029%	60% naturally occurring: from Nitrogen cycle, fossil fuels, industry. Less than 40% from human activities: agriculture, wastewater treatment, combustion
5. Ozone	O <sub>3</sub>	0.04	0.00038%	Vital in protecting UV-B from reaching the earth

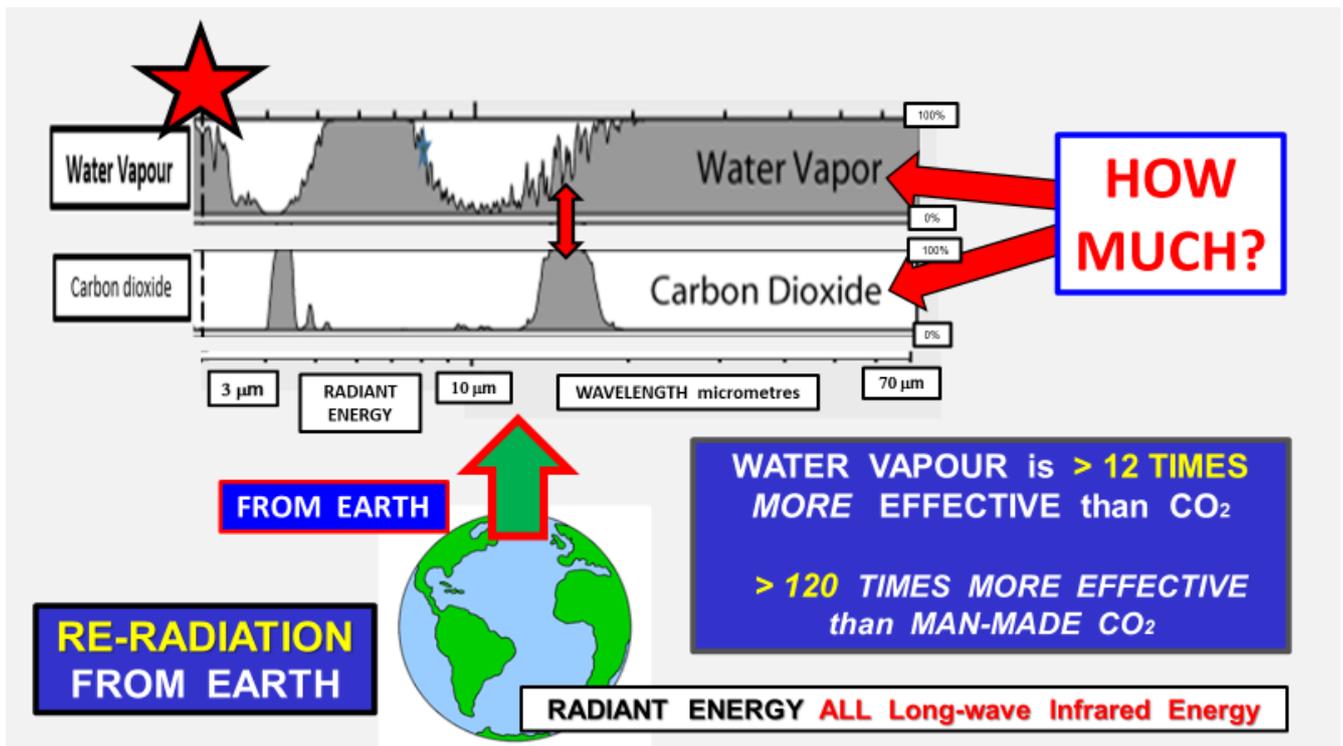
**FIGURE 5**



**FIGURE 6**



**FIGURE 7**



The Oxford English dictionary defines “emergency” as:

“A serious, unexpected, and often dangerous situation requiring immediate action.”

**Therefore, there is no climate emergency!!!!**