# Re: GreenHouse Gas, H2O?

***Source:*** http://sci.tech−archive.net/Archive/sci.physics/2007−06/msg00379.html


- *From*: "Ken S. Tucker" <dynamics@xxxxxxxxxxx>
- *Date*: Mon, 04 Jun 2007 12:27:38 −0700


On Jun 3, 11:58 pm, Dwib <dwibd...@xxxxxxxxx> wrote:

> On Jun 1, 4:34?pm, smallpond <smallp...@xxxxxxxx> wrote:
>
> > If the CO2 is absorbing 99.999% of the IR, I wonder what is making
> > my skin warm when I stand in the sunlight. Any idea?
>
> First, I'm referring to the bands of IR absorption that CO2 absorbs,
> not the entire IR spectrum.
>
> Second, I'm not sure if 99.999% is a correct absorption. From my wall
> chart it's a very strong absorption band... that's all I can tell.
>
> I could reword my question to be:
> How is the atmospheric absorption of IR light by CO2 related to the
> concentration of atmospheric CO2?
>
> I imagine that above a certain CO2 concentration there will be a
> negligible increase in IR energy absorbed. Is our atmosphere at this
> critical concentration? Far below this point? Far above this point?
>
> I'm hoping some climatologists read sci.physics and can clarify this
> point.
>
> Dwib

Fair questions all.
The next question is how to acquire the necessary
data scientifically, minimizing subjectivity, by getting
the politicians and axe grinders out of the loop.

The dream would be calibrating Earth's albedo across
the power input spectrum from the Sun, then in labs
calibrating the results using tunable lasers in a
chamber and then extrapolating.
That would in essence would be a specialized "analog

computer", where the gases are varied to sim atmospheres
as is the frequency to map out the power spectrum.
Regards
Ken S. Tucker

PS: Personally, I think climate change debate
resembles a school class spit ball fight than a
careful scientific debate.

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