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# Sharing a quota on cumulative carbon emissions

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(Talk about moving the Ball Park)

The carbon-contest was limited to the range of the 5 carbon-budgets below? . . . PIERRE FRIEDLINGSTEIN author of the NEW REPORT in NATURE

5 CARBON BUDGETs were proposed to coincide with 'Climate Marches' (21 09 2014) claiming to limit future rise in global temperature within an upper limit of 2° Celsius. These were: -

1. AVAAZ 160 Gt C
2. IGBP 250 Gt C
3. Greenpeace/WWF etc 350 Gt C
4. Stern 400 Gt C
5. Hansen 500 Gt C

here's the key quote from Friedlingstein's Report . . .

Estimation of the global carbon quota  $Q_{tot}$  is an ongoing scientific issue. The estimates used here<sup>10</sup> are  $Q_{tot} = 3,500, 4,400$  and  $5,300$  Gt CO<sub>2</sub> for warming limits of 2, 2.5 and 3 °C, respectively, with 50% chance of success and accounting for both CO<sub>2</sub> and non-CO<sub>2</sub> forcings (all quota estimates are rounded to nearest 100 Gt CO<sub>2</sub>). These are larger (more conservative) quotas than estimated elsewhere<sup>8</sup>.

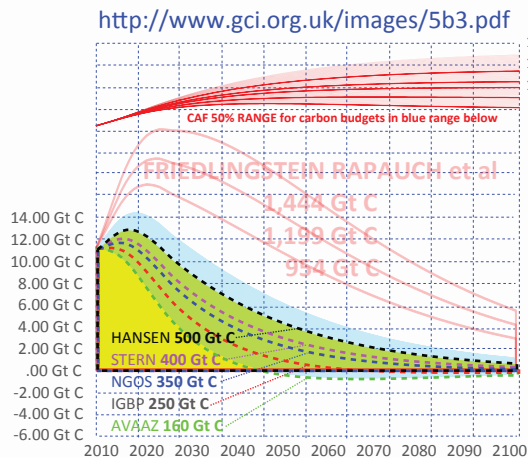
and its translation into the numbers of the carbon budget below

CO2	C	CAF 50% GT	CAF 50% PPMV	° C
3,500.00 Gt CO2	954.54 Gt C	1323 Gt C	621	2.0
4,400.00 Gt CO2	1,199.99 Gt C	1433 Gt C	673	2.5
5,300.00 Gt CO2	1,445.44 Gt C	1552 Gt C	729	3.0

ludicrously says in this new report that as long as we limit future emissions to a Carbon Budget of 1,199 Gt C we can limit future temperature rise to 2.5° Celsius.

He is also quoted in Huffington Post Today, "Time is running short. The more we do nothing, the more likely we are to be hitting this wall in 2040-something."

[http://www.huffingtonpost.com/2014/09/21/carbon-pollution\\_n\\_5857526.html](http://www.huffingtonpost.com/2014/09/21/carbon-pollution_n_5857526.html)



1200.0 Gt C	563 PPMV
1100.0 Gt C	516 PPMV
1000.0 Gt C	469 PPMV
900.0 Gt C	423 PPMV
800.0 Gt C	376 PPMV

## FRIEDLINGSTEIN RAPAUCH et al

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