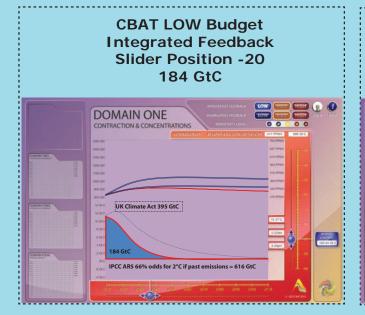
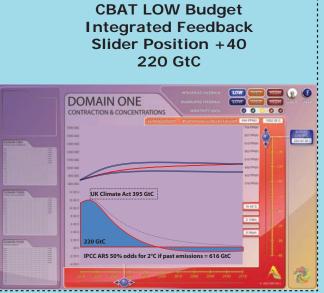
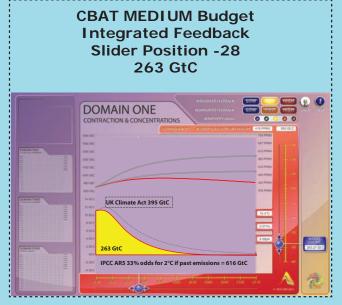
## **IPCC AR5 Carbon Budgeting for 2 Degrees Celsius**

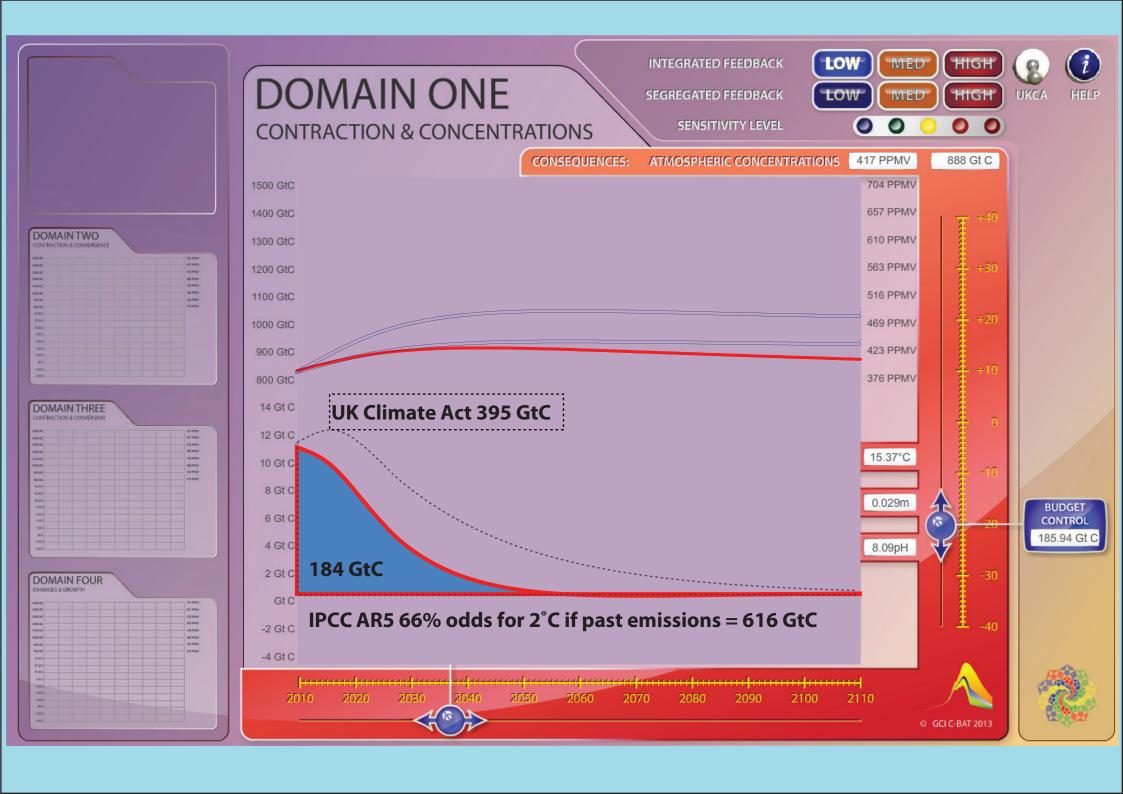
IPCC AR5	Cumulative	Plus "Non-CO2-Forcings	Balance	Emitted	Final Residual	For 2° Celsius reduce UKCA
3 'Probability'	Emissions	in RCP 2.6" [these still		Already	IPCC Emissions	Emissions Budget [395 GtC]
Levels for 2° C	1800 - 2011	exclude major feedbacks.		since 1800	Budget Balance	by these amounts
33%	1,560 GtC	880 GtC	680 GtC	616 GtC	264 GtC	131 GtC
50%	1,210 GtC	840 GtC	370 GtC	616 GtC	224 GtC	171 GtC
66%	1,000 GtC	800 GtC	200 GtC	616 GtC	184 GtC	211 GtC

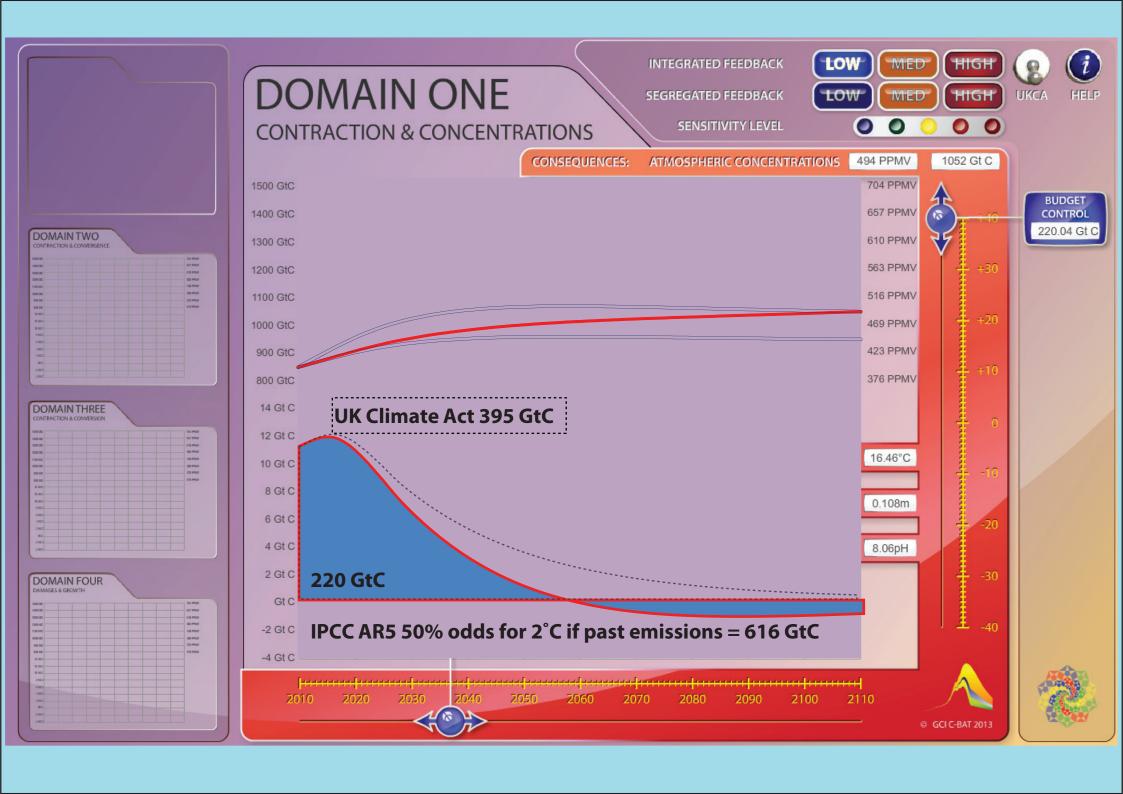


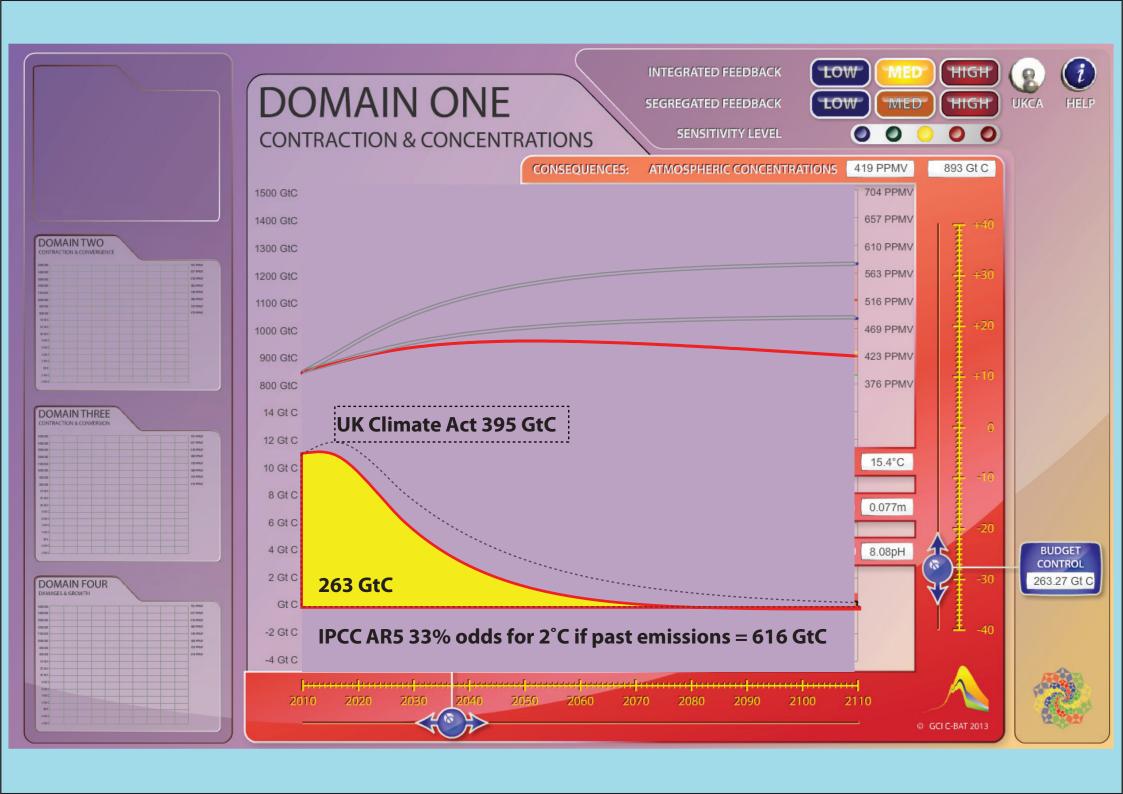




http://www.gci.org.uk/CBAT/cbat-domains/Domains.swf







IPCC AR5 WG1 final published the words/numbers quoted in the coloured box below. These were in the 'Summary for Policy Makers' & this is what their policy-relevant statement means - emit 46-126 GtC less than the UK Climate Act Budget [395 GtC] to keep under  $2^{\circ}C$ .

Three	Cumulative	Plus "Non-CO2-Forcings	Balance	Emitted	Final Residual	For 2° Celsius reduce UKCA
Probability	Emissions	in RCP 2.6" [these still		Already	IPCC Emissions	Emissions Budget [395 GtC]
Levels	1800 - 2011	exclude major feedbacks.		since 1800	Budget Balance	by these amounts
33%	1,560 GtC	880 GtC	680 GtC	531 GtC	349 GtC	46 GtC
50%	1,210 GtC	840 GtC	370 GtC	531 GtC	309 GtC	86 GtC
66%	1,000 GtC	800 GtC	200 GtC	531 GtC	269 GtC	126 GtC

NB IPCC's "Non-CO2 Forcings in RCP 2.6" [et al] are the 'Non-CO2 Gases'. However, it should be clearly noted that the RCPs still OMIT most feedback effects. In other words the real prognosis for 'climate-control' is actually worse than the IPCC AR5 has suggested.

Using CBAT [pp 2-5] IPCC 'Final Residual Balances' are compared with rates of C&C in the UK Climate Act [UKCA]. UKCA proposed an Emissions Contraction Budget of 395 GtC & Convergence by 2050. http://www.gci.org.uk/CBAT/cbat-domains/Domains.swf GCI proposes a Contraction Budget of 200 GtC with negotiations for an accelerated rate of Convergence [example used suggests equal entitlements by 2020].

## IPCC AR5 Working Group One [WG1] Summary for Policy Makers [30 09 2013] says: -

"Limiting the warming caused by anthropogenic CO2 emissions alone with a probability of: -

- 1. >33%,
- 2. >50%, and
- 3. >66%

to less than 2°C since the period 1861–1880, will require cumulative CO2 emissions from all anthropogenic sources to stay between: -

- 1. 0 and about 1560 Giga-tonnes Carbon [Gt C]
- 2. 0 and about 1210 Gt C, and
- 3. 0 and about 1000 Gt C since that period respectively.

These upper amounts are reduced to about: -

- 1. 880 Gt C,
- 2. 840 Gt C, and
- 3. 800 Gt C respectively, when accounting for non-CO2 forcings as in RCP 2.6.

An amount of 531 [446 to 616] Gt C, was already emitted by 2011."

