While C&C is structured in the 'First Law of Physics', C&C is like a 'Well Tempered Climate Accord'.

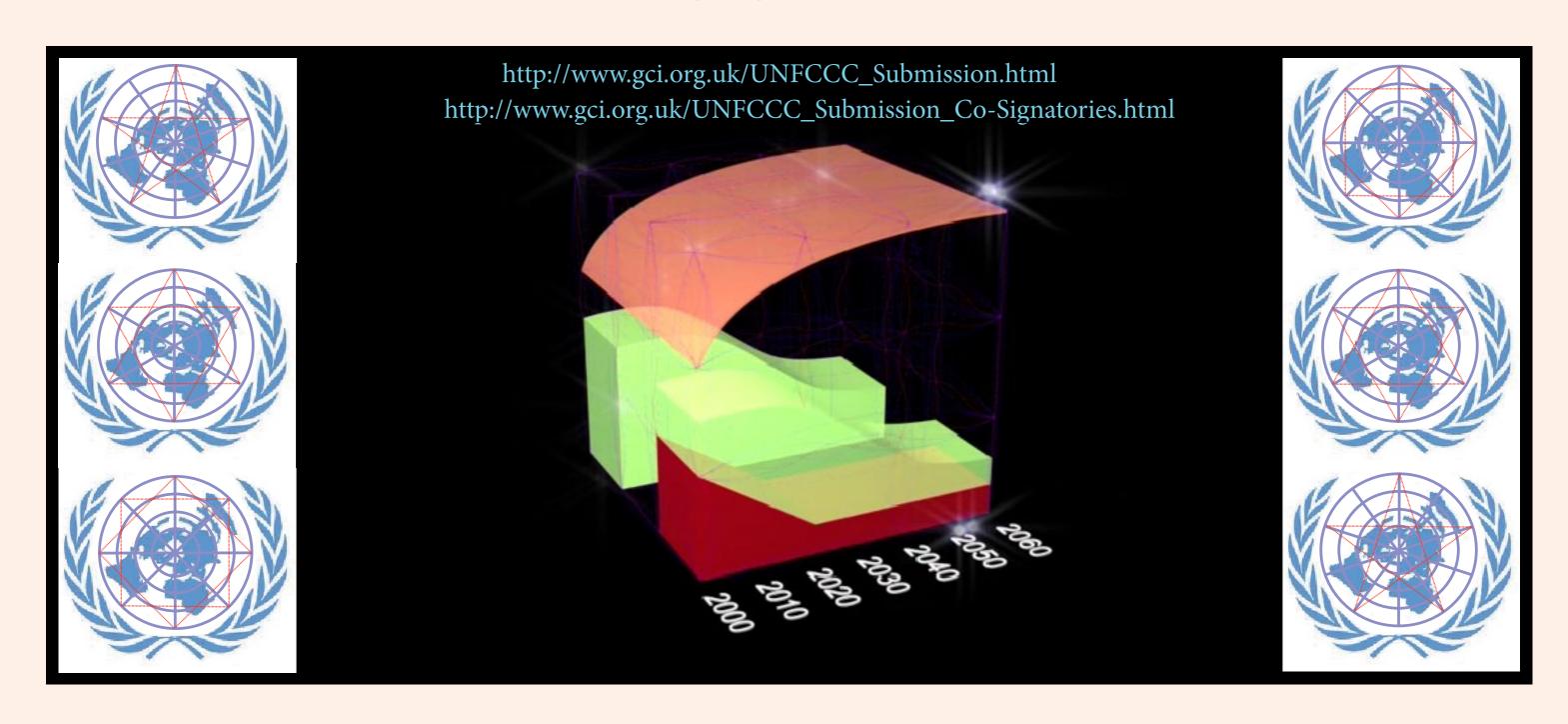
Contraction & Convergence or C&C is a proposal to the UNFCCC or the United Nations Framework Convention on Climate Change.

The UNFCCC Executive says C&C is inevitably required for compliance: -

http://www.gci.org.uk/UNFCCC_Submission.html

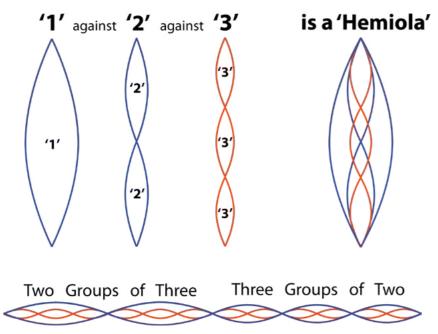
While the UNFCCC process remains deeply divided, C&C is deeply and diversely supported: -

http://www.gci.org.uk/UNFCCC_Submission_Co-Signatories.html http://www.gci.org.uk/endorsements.html



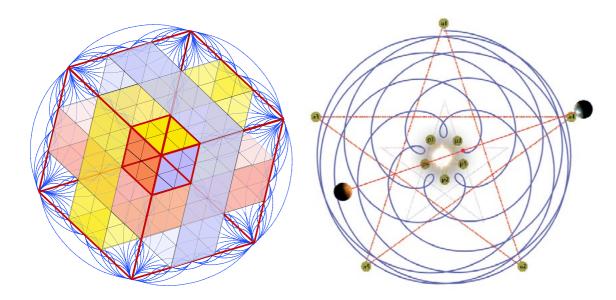
Pythagoras 'Stringularity' 'Physics First Law'.

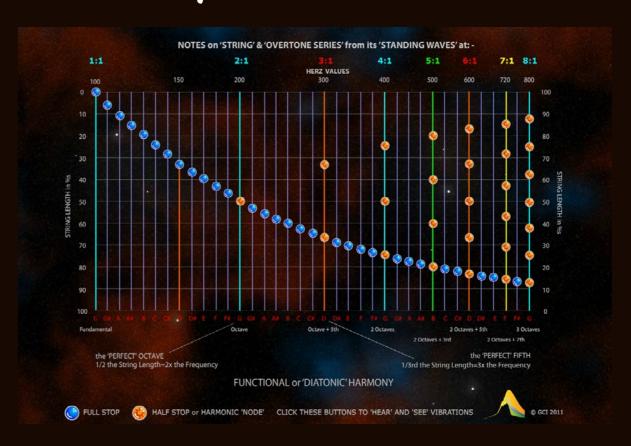
HEMIOLA [2/3]



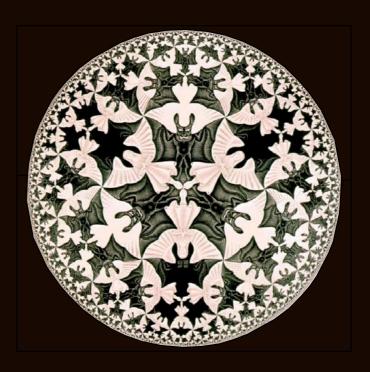
http://www.gci.org.uk/music.html

The 'PENROSE' [2+3] **CUBE** [2*3]

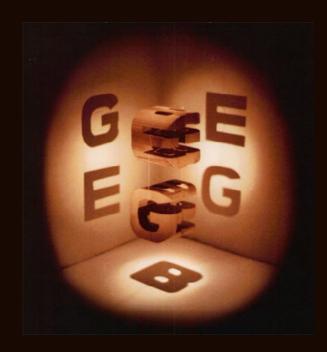




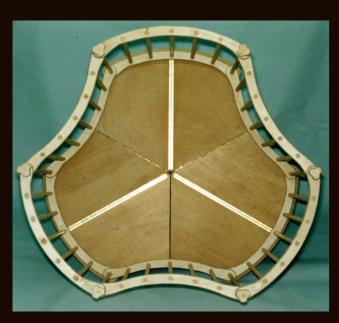
Escher



Godel, Escher, BACH



Flexapen



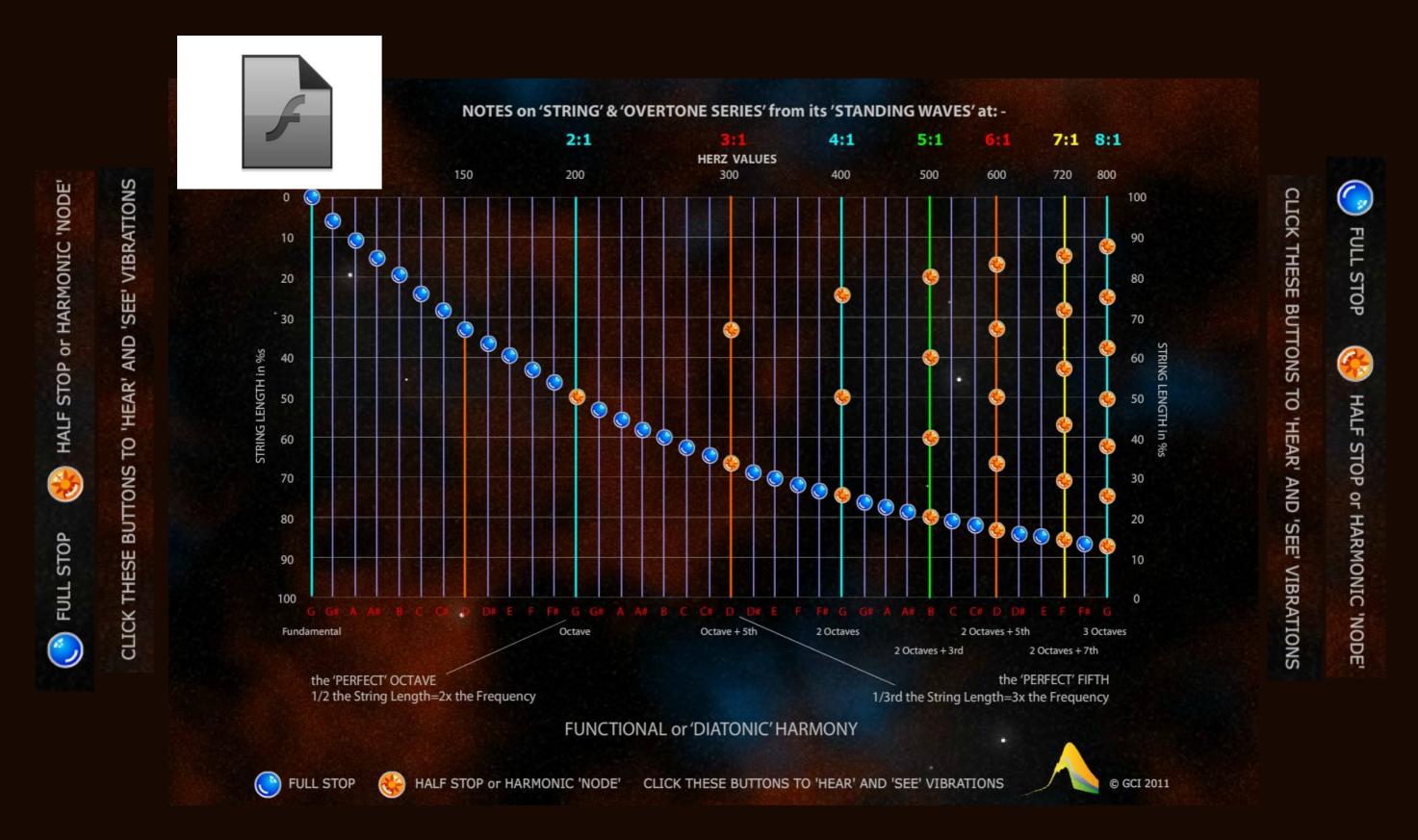


'Trefoil'



'Trefoil in CUBE Geometry'





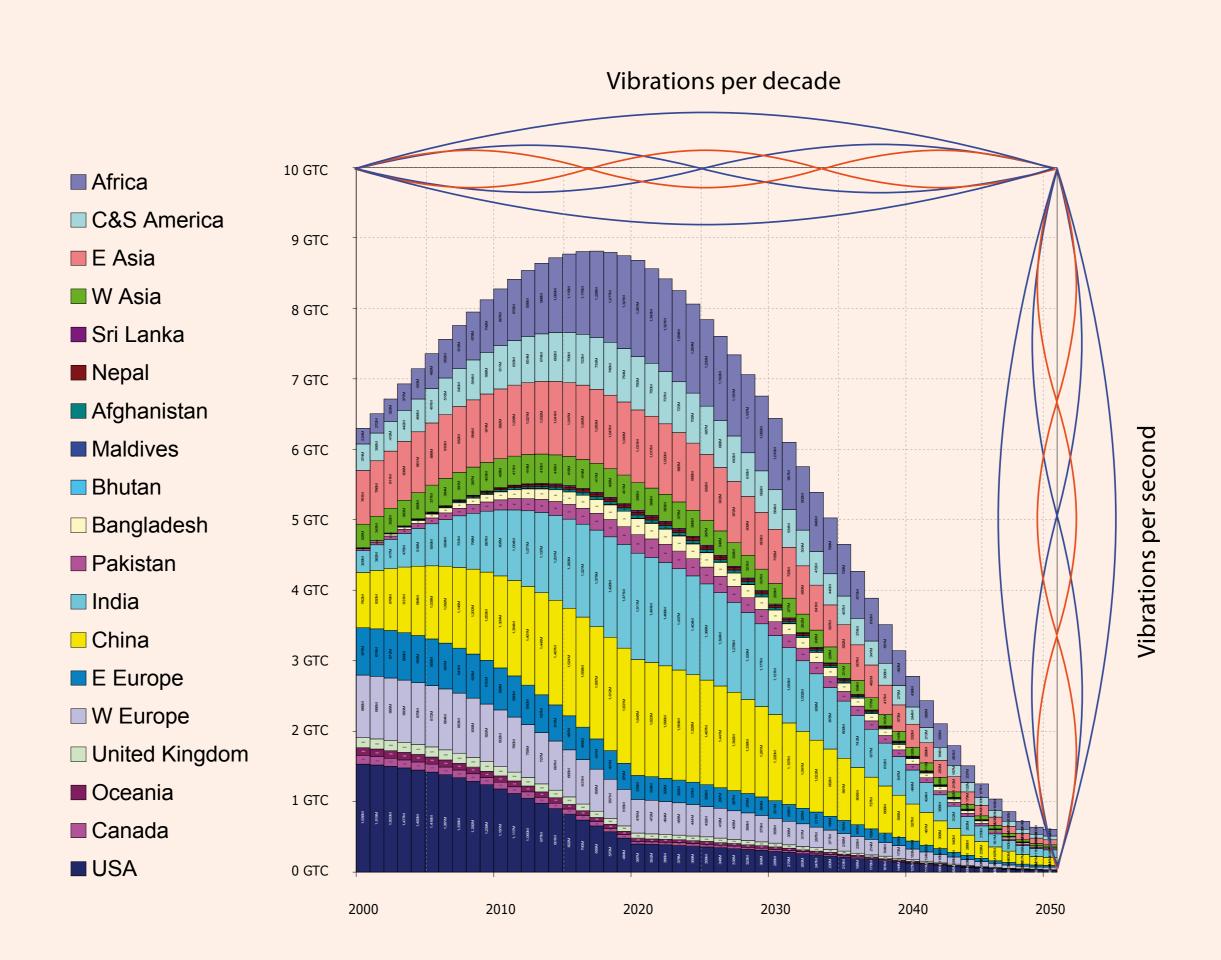
'Stringularity' - SEE & HEAR the 'First Law' - touch buttons

String at constant length and constant tension: - if you halve the length, you double the frequency - third the length, treble the frequency

"According to legend, the first mathematical formulation of what we might today call a law of nature dates back to an Ionian named Pythagoras [who] is said to have discovered the numerical relationship between the length of the strings used in musical instruments and the harmonic combinations of the sounds. In today's language we would describe that relationship by saying that the frequency - the number of vibrations per second or 'Herz' value - of a string vibrating under fixed tension is inversely proportional to the length of the string.

One could call that simple mathematical formula the first instance of what we now know as theoretical physics." [Hawking]

C&C is like a 'Well Tempered Climate Accord'



Animation of all Rates of C&C



The simple mathematical logic of C&C shown here is 'incontestable'.

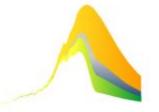
onomic computations' & 'ideological assumptions' laid on top of it are contestable.

C1, C2, C3 Compared









FRAMEWORK CONVEN E

UNITED NATIONS GLOBAL DAMAGE COSTS/ PME E

OBJECTIVE

Contraction & Concentrations

PRINCIPLES **Precaution Equity**

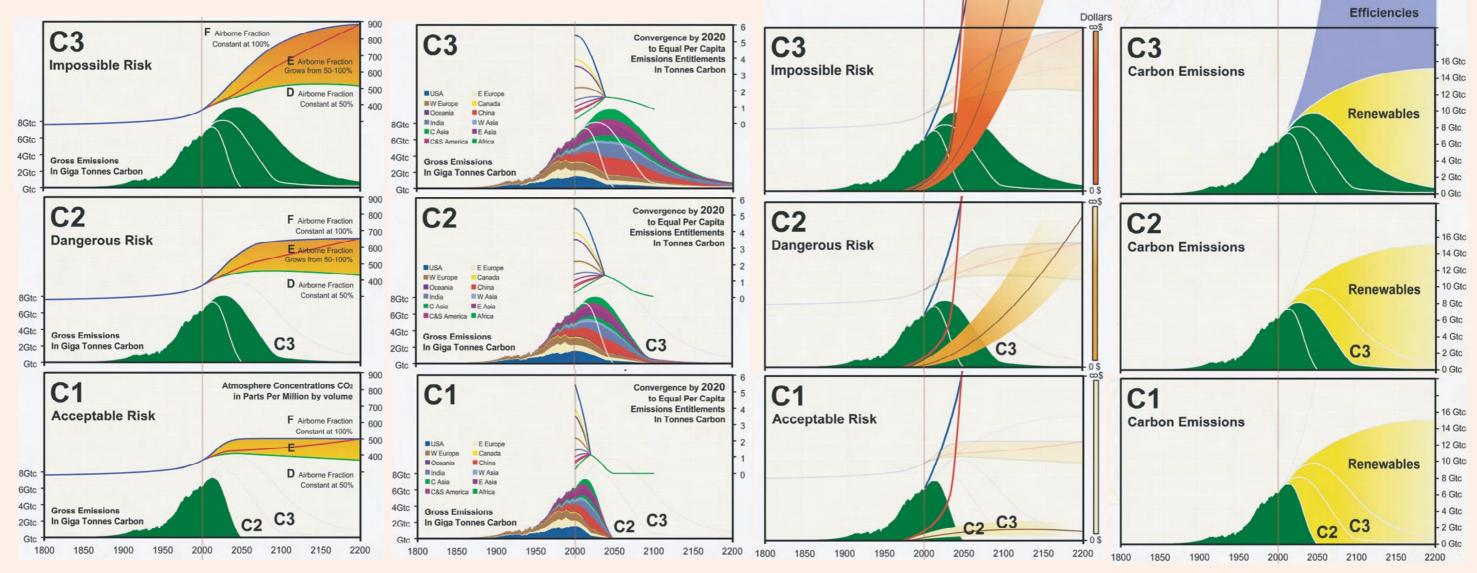
Contraction & Convergence

DANGEROUS **CLIMATE CHANGE**

Damage Costs & Insecurity

UN/SUSTAINABLE DEVELOPMENT

Contraction & Conversion



This entire animation is on-line at: - www.gci.org.uk/images/Final_presentation.exe Touch buttons to advance within scenes and logos \wedge to advance between scenes

Animating all Rates of C&C vis-a-vis IPCC AR4 science.





'Ave Maria' - Invoking C&C as a 'Well Tempered Climate Accord'

The first Prelude of Johann Sebastian Bach's 48 Preludes and Fugues, the 'Well Tempered Clavichord', was dedicate to his wife Anna Magdalena Bach. These were written in all keys of the chromatic scale to show that with 'Well Tempered Tuning' playing in all 12 keys, major and minor, was 'in-tune'. Decades later, Charles Gunoud added the melody of 'Ave Maria' to Prelude 1 in C major, played here invoking C&C, a 'Well tempered Climate Accord'.

The 'overtone series' in music was discovered by Pythagoras. It results from the first law of theoretical physics and is true on any scale. It says, with a string of constant length and at constant tension, if you halve the length you double the frequency at which it vibrates, if you take a third of the legth you treble the frequency at which it vibrates, and so on. As a unity it is 'stringularity'.

The orbits of Earth and Venus around the Sun show a synodic cycle which replicates the core values of this overtone series. The Golden Section proportionality of this cycle - 1,2,3,5,8,13 - within the pentagramatic paradigm is fundamental to the 'Pythagorean view'.

The Well Tempered Climate Accord of a full-term C&C-event needs to complete within about the next 5 of these 'Eight-Earth-year-cycles', or about forty years, if UNFCCC-compliance is to be achieved and dangerous rates of climate change are yet to be avoided.

The 'PENROSE' - a Rose Path in a Pentagonal Integral

Pythagorean Beauty Orbits in Solar System ... the *PENROSE* ...

ns to see Sun or Earth or Venus Centered Golden Section Orbital Paths.

These give 'different viewpoints' of the same simple mathematical truth.

