▌ GLOBAL DECLARATION WAR on CARBON ▌

A fact is far stupid and cruel than any novels.At first you should know that a relation between **true and false is entirely upside down**.

You must decisively turn false in order to gain true even though false has been global and historical something big !!.

The supreme science "logic" teaches us that a false is a contadiction which never fail to cause somethig catastrophe at last. Also decent religions has entirely been preaching do true and justice to accomplish repentance for evading something catastrophe.   For long time,you have been believing that nation and united nation have been at least decent for securing people's life. But if you once had known reality of **Climate Change Crisis(CCC)** and the **IPCC**'s works on those,you would be frightened for **their outrageous deceptions**.   CCC is not gradual process and the crisis is not in far future. The fact is upside down if the current trend was going on.On the contrary,**the actual reliefing is emergent and global as more than 80% CO2 emission reduction from right now !!!!**.Unless,global lives would surely encounter heat hell world to perish in near future.These are fatal and decisive facts.Why such extremely serious fact for everyone had been hidden for long time ???,

It's evident that people having known above mentioned fact would turn the global capitalism regime ruled by nobilities the hereditary.

The real cause is the paranoidal conservatism of the highest pride of 1% status quo.

http://www.777true.net/IPCC-the-injustice.pdf

Thus,having known the Climate Rreality could not help to become Global Revolutionalist.

―NOTE―

Full comprehension on CCC science would need you be familiar with physics basis. | Such articles are in skyblue boxes. | But judging true or false would not need you be familiar with physics basis,but with comparing numerics | Such articles are in coulored boxes except skyblue one. | The most necessary and difficult is to make **implementation plan for the new global regime against CCC**. Then note that **the implementaion simuletaneously becomes one for against global debt crisis at now world.**Above all,a hope to live is decisively necessary in this chaotic world at now.This report now could not be sufficient. Author entirely wish "**wisdoms of you all**".

―THE CONTENTS ―

PART-A : Why can Earth become Hotter and Hotter ?!.

Appendix:Climate Crisis Prediction Music.<Following music records were happned to be mine>.

＊Save the children by Marvin Gaye in album "What's going on",1971.

http://www.youtube.com/watch?v=B89vf_3CawM

This song is just a prediction of draught-famine hell of Africa now and the world in future. ″Who is willing to try to save the world ??″. Everybody must take **the duty**. ″Dig it everybody!!″.**Climate Jusitice** mus be debated by every body, but never be settled secretley only by politician and scientist in closed room.

＊Jumping Jack flash by the Rolling Stones,1968.

http://www.youtube.com/watch?v=hxpfBWMOIOk

This is just night mare in midst Climate Disaster. "It'sgas,gas,gas" is simuletaneously joke and serious,"And I frowned at the crumbles of a crust of bread.I was crowned spike through my head".It's famine and fever anger against extravagant highest status.

＊"Taward the flame(Vers la Flamme)" by Alexandre Scriabine in 1914.

http://www.youtube.com/watch?v=5_FKKIC1oSw

Methane release starts slow space at first,but it would become intensfied as time goes on, the last stage is explosive fire.

Scriabine was related with   established by madam Brabachy.His son was drowned. Above Rolling Stone's song also refered to water disaster.Also their colleague was drowned in pool.
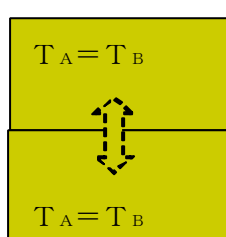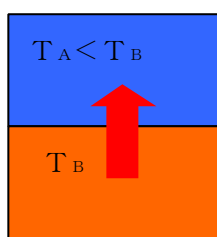
[A1] : Heat Budget on Globe.

⑴**What is Heat ?**(1st and 2nd thermodyanamics low)＝**All that rules global climate is "Heat" !.**

Every matter with its dynamical motion has a definite energy. A flying pebble can break window by its kinetic energy. A stone dropped from higher postion get kinetic energy by gravity force,then the initial position has a potential energy by gravity.Also electro-maginetic wave has energy called radiation one with definite temperature(**blackbody radiation** one).Fluid motion of ocean and window(water and air molecular particle ensemble)has kinetic energy. An energy has various type.Heat Is also an energy,however it has a specific feature than any other type of energy.

A energy never be created and also be anihilated.Energy amount of closed sytem is constant in time(**energy conservation low＝the 1st low of thermodynamics**).Energy could be changed its type in various process.However they never fail to become heat at last. Heat is **last dump** of energy in time progression.It's an energy being fragmented into smallest pieces＝kinetic energy of many molecules with equi-partioned. Heat is most inferior energy in view of energy engineering.This feature of energy transition direction is due to **the 2nd low of thermodynamics, which states heat flows from higher temperature zone to lower one.** This is the fundamental indicator in energy motion in any scale of closed system.In other word, a heat is eintirely wishing to establish **equi-temperature distribution** as an equibrium state.

Heat Contact between A&B

Equi-temperature $T_A＝T_B$ could cause nothing change in A and B.This type of heat energy do **nothing**.change.

Heat Contact between A&B(unstablity)

$T_A＜T_B$ cause heat flow from B to A,whch could cause **somthing change** in A and B.

change＝{convection,ice melting,evaporation,flood,..............}.

Typical extreme example is equator T_B with Arctic T_A.

⑵**Heat contact (injection,dissipation)can cause convection flow growing as typhoon and hurricane.**

Boiling kettle with heating burner is a typical exmaple.You could see boiled water flow in it.Heating land by insolation could cause upward air flow.

⑶**Heat contact (injection,dissipation)can cause phase transition of water in ice melting,**freezing,snow,rain,**flood and draught.**
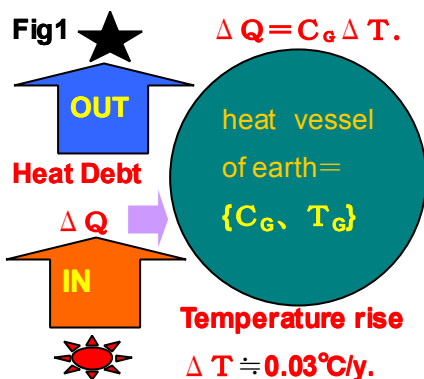
Heat amount exchanging through **water** and **vapor** is fundamental in revealing weather and climate pattern.

All that rules global climate is "heat" !.

⑷**Temperature and Heat Capacity.**

Temperature T is an indicator of heat energy amount＝Q.Temperature rise ΔT by pouring same amount of heat energy ΔQ is different due to vessel's heat capacity≡"C",which is **heat amount for 1℃ up.** So $\Delta Q＝C×\Delta T$,See page=5 in following site.

http://www.777true.net/Global-Temeperature-FACT-7.ppt

Fig1

OUT

Heat Debt

$\Delta Q＝C_G\Delta T.$

heat vessel of earth＝ $\{C_G、T_G\}$

IN

Temperature rise $\Delta T≒0.03℃/y.$

.＊Heat capacity of global **land** and **atomosphere** is less than about 1/1000 of oceans,so effective global heat is in **all oceans of about 600m depth**≡$C_G＝8.7×10^{24}$J/K(**energy amount for 1℃ rise of earth**) ＝global ocean area(361.3×10^{12}m²)×depth(**600m**)×density(1040Kg/m³)×C water specific heat(3.85KJ/Kg).

＊Observed global temperature rise $\Delta T≒$**0.03℃/y. Hence the heat debt** $\Delta Q＝C_G\Delta T≒$2.6×10²³J/y.

☞:Generally to tell, $\Delta T≒$0.02～0.04℃/year by observers(2009).

＊Radiative Forcing(**RF**)＝ΔQ/(global surfaceXyears seceond)＝2.6×10²³J/(5.115×10^{14}m²×365×24×3600s)

≡$\delta F＝$**1.6**W/m²(**the evil surplus energy**(per unit area ,unit itme) heating up earth)

☞:Above RF value was to be prooved to coincide with **manmade carbon emission** into atomosphere

⑸**Heat Debt＝(Incoming Heat－Outgoing Heat)＝the surplus heat causing global heat up(heat imbalanced equation).**

The **global temperature rise** is fataly indisputable fact not only by **reliable experts observations**,but also by **our amateure intuitional observation on recent years anormal climates in everywhere.** Incoming heat flow into globe is more than outgoing heat flow,which has been heating up earth. **Incoming heat flow is that of constant insolation,**therefore,outgoing heat flow is weakened by **something causal**.

Fig2 is a scheme of heat budget with heat debt＝RF(1.6W/m²) caused from {.**Incoming Heat－Outgoing Heat**}.Then note that

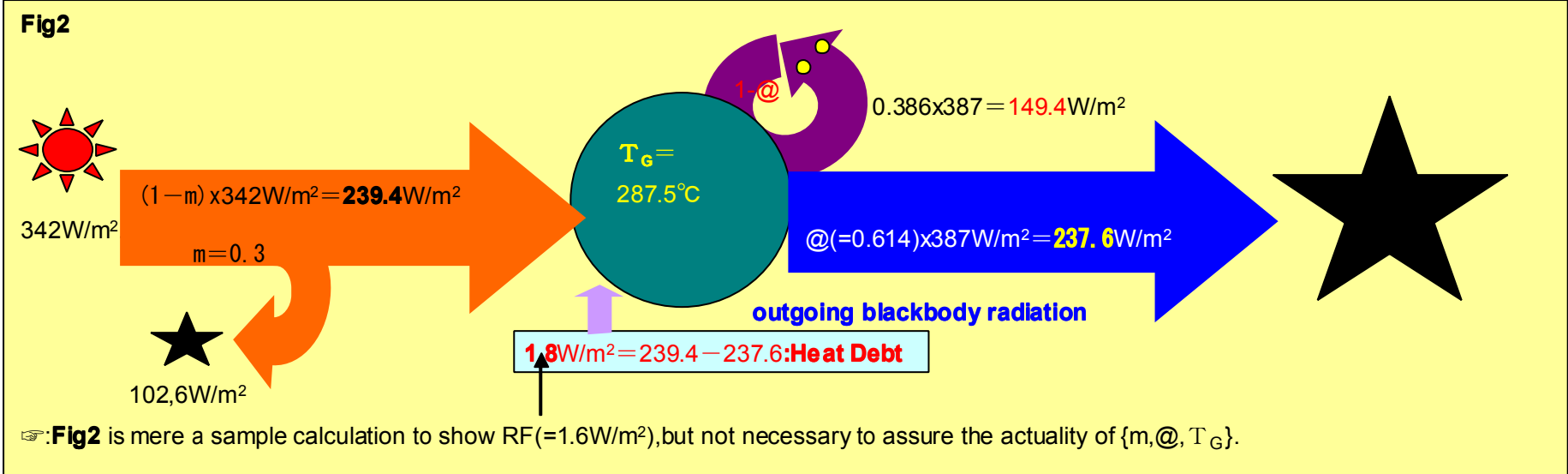＊**solar ray refelection rate**≡m depending earth surface state such as cloud,ice cover reflection,or black surface absorbtion.

＊**blackbody radiation:**Any material with finite tempetature T radiate elctromagnetic radiation of intensity σT^4,where σ is Stefan Boltzman constant. These details shall be mentioned in the later.However radiation surface is effective radiation intensity by multiplying @.

＊**cooling radiation passing rate**(CR pass rate)≡@ dominated by **G**reen **H**ouse **G**as concentration,water vapor density,.....

Note "**a curling snake**" with {1-@},which is heat recycling for warming up this planet. If @＝1,then earth becomes very cold as-18℃,

while @<<1,earth become hotter.@ is Green House Effect Gas(**GHG**) parameter dominating earth temperature T_G.

Fig2

$342W/m^2$

$(1-m) \times 342W/m^2 = \mathbf{239.4}W/m^2$

$m=0.3$

$102,6W/m^2$

$1-@$

$T_G = 287.5°C$

$0.386 \times 387 = 149.4 W/m^2$

$@(=0.614) \times 387W/m^2 = \mathbf{237.6}W/m^2$

outgoing blackbody radiation

$1.8W/m^2 = 239.4 - 237.6$ **:Heat Debt**

☞:**Fig2** is mere a sample calculation to show RF(=1.6W/m²),but not necessary to assure the actuality of {m,@,T_G}.

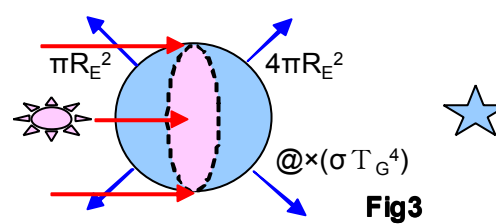☞:Below is rather advanced course for readers wishing more strict evidences.

Fig1 is a rough conceptual scheme of **heat budget** on earth.

(a)**"Heat balanced eqution"** before 1750(industrial revolution).

$(\pi R_E^2) \times F_0 \times (1-m) = (4\pi R_E^2) \times @ \times (\sigma T_G^4)$.

Incoming **solar** heat＝outgoing heat by semi **blackbody radiation**

πR_E^2　　$4\pi R_E^2$

$1366W/m^2 = F_0$

$@\times(\sigma T_G^4)$

Fig3

(b)**"Heat imbalanced eqution" at now.**

$(F_0/4) \times (1-m) - @ \times (\sigma T_G^4) = C_G(d T_G/dt)$.

—**Equation of Global Temperature(EGT)**—

$\leftarrow$　$(\pi R_E^2) \times F_0 \times (1-m) - (4\pi R_E^2) \times @ \times (\sigma T_G^4) \equiv (4\pi R_E^2) \times \delta F = \Delta Q_。$.

＊$R_E \equiv 6.38 \times 10^6 m$＝earth radius.

(c)Incoming heat from solar ray into globe＝direct solary－refelected one from globe into cosmic space

＝solar ray input×$(1-albedo<m=0.3>) = \frac{1}{4}F_0(1-m(\fallingdotseq 0.3)) = 342W/m^2 \times (1-0.3)$

(d)outgoing heat (**blackbody radiation**=(σT_G^4))from earth temperature＝T_G with passig rate @.

(e)$(d T_G/dt)$. Is temperature rise by unit time interval,so $C(d T_G/dt)$. Is heating up energy amount per unit time.

(f)**The decisive meaning of EGT(0 dimensional global model):**

Ⅰ:Given time and Temperature function {m(t;T_G(t))、 @(t;T_G(t)}could determine the destiny of our planet with T_G(t).

That is,{m＝albedo、 @＝CR pass rate} could determine earth Temperature T_G(t).

Ⅱ: EGT is an equation of T_G(t) which can be solved explicitly by assigning (m,@(t)} as a function of programmed GHG concention.

http://www.777true.net/Global-Temeperature-FACT-7.ppt

☞:Above mentioned method predicted about **0.3°C rise in 30 years** by **zero carbon emission simulation**.

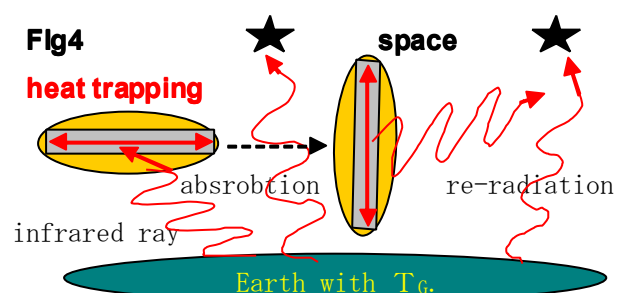Ⅲ:EGT is fundamentally thermodynamics 1st low of few variables,which could certify the high reliability.

[A2]: The Evil GHG＝heat trapping gas mechnism and the manmade emission reality.

In **[A1]:** (5) mentioned that,outgoing heat flow is weakened by **something causal**. The reality is **GHG**(green house effect gas).

CO2 absrobs infrared ray from earth surface and re-radiates it into cosmic space and into ground with equi-probabilty.As the consequence,

cooling radiation of infrared ray from earth surface temperature **can not pass through atmosphere** into space with **a finite probability**.

(1)**GHG molecule is similar with "dipole antenna" which interacts with electromagnetic wave(absorbtion and re-radiation).**

Fig4

heat trapping

space

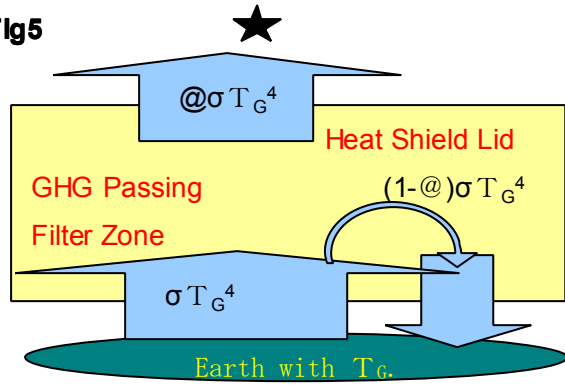absorbtion　re-radiation

infrared ray

Earth with T_G.

Interaction property of electro-magnetic(EM) wave and GHG molecule is well studied in lablatory and all the feature is confirmed. Very unluck for us CO2's **resonance band** is fitted with **cooling radiation** from earth temperature.

(2)Absorbtion wave is from direct ground, or re-radiated one from another molecular,.Note that **re-radiation wave direction** is random due to molecule's random orientation.Gas molecular are random moving in atomosphere.The randomness is to fit statistical prediction.

(3)Outgoing cooling radiation with probability @ is passing radiation in GHG filtering zone.

Fig5 ★

@σT_G^4

Heat Shield Lid

GHG Passing

Filter Zone

$(1-@)\sigma T_G^4$

σT_G^4

Earth with T_G.

More precise conceptual and mathematical details could be seen in following site.

http://www.777true.net/Radiative-Forcing-0dim-Model-p1.pdf

＊effective atmospheric height≡<H>、x≡height,t≡time, ν ≡frequency of CR.

＊$I(t;x=0;\nu)$≡cooling radiation(CR) intensity,

＊$S_j(\nu)$≡molecule"j"'s spectral density ＊$C_j(t)$≡molecule "j"'s concentration.

＊$@(t)\equiv I(t;H)/I(t;0)$

$=\{\int_0^\infty d\nu I(t;0;\nu)/[1+(H/2)\sum_{j=1}^N C_j(t)S_j(\nu)]\}/\int_0^\infty d\nu I(t;0;\nu)$.

☞:Larger concentration $C_j(t)$ contributes smaller @(t) causing temperature rise.

After all,smaller @ act to make heat shield lid on this earth which would stop heat outgoing(infrared ray) form earth and cause evidently temperature rise.While incoming heat (visible ray) can penetrate GHG filter zone,which is to heat up earth day by day.

(4) Also **paleo climatology observation** proved almost linear corelation between temperature and CO2 concentration.

http://www.daviesand.com/Choices/Precautionary_Planning/New_Data/

You could see the fine correlation in the graph in above site.

Thus both theory and observation confirm {temperature and CO2 }'s positive corelation.This is official standard theory !!!!!!!!!!!.

(5)man made GHG emission reality(2000～2009).   http://www.globalcarbonproject.org/carbonbudget/09/presentation.htm

Carbon Budeget Reality(2009). ☞:Overwhelming increasing trend could be seen in this table.

Man made emission＝7.7±0.5GtC/y	**Land sink**＝2.4±0GtC/y<>27%>	
Natral emission＝1.1±0.7GtC/y	**Ocean sink**＝2.3±0.4GtC/y<26%>	
Total **Emission**＝**8.8**±1.2GtC/y	Total **Sink**＝**4.7**±0.4GtC/y	**Atmospheric accumulation**＝**4.1**±0.1GtC/y<47%>

(6)Quantitical proof of cause that contribute to global temperatre rise.

Radiative forcing by GHG component. ☞:GHG increasing is instantly to rise Radiative Forcing(surplus heat) driving temperature rise.		
Carbon	1.66W/m²	**3.05** tllion ton(concentration＝380ppmv)
Methane	0.48W/m²	

The radiative forcing calculation was to prove the kernel cause of global temperature rise quantitically.

(a)The total radiative forcing now 1.6W/m² is consequence of many factors(albedo,GHG,and vapor,........}.See following IPCC table.

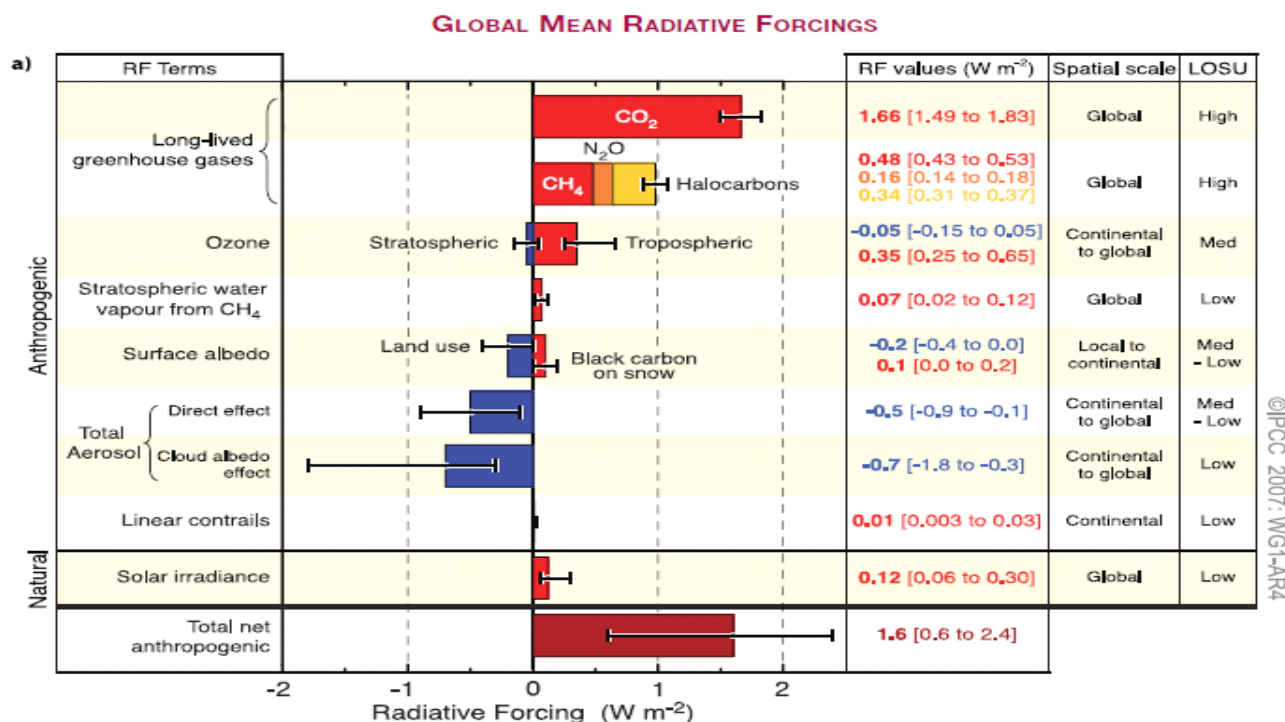   Conclusionalry to tell,other factors except carbon are to become ± cancelled,as the consequnece,radiative forcing by carbon＝1.66W/m² is to

   agree with total one＝1.6W/m².This is the proof that carbon is **main criminal** causing global temperature rise.

(b)ー**Why is it only "Carbon" that do criminal ?**ー

Answer is very simple,carbon is **major** and other small factors(except carbon) could not be managed by anthropogenically.

Ofcourse other GHG such as CH4,......must be also crack downed.

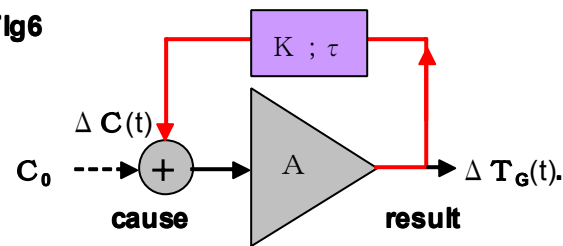

Technical Summary

GLOBAL MEAN RADIATIVE FORCINGS

(7)**Spontaneous Natural GHG emission induced by temperature rise.**

    Land and ocean themselves contains huge amout of organic carbon,which are to be released into atmosphere by temperature rise.

    For example,rotten leaves,grass and wood on and in soil is to become CO2,whch is accellated by temperature rise.

    This natural spontaneous emission could be fatal when those became feedback cyclying of **result enhancing cause**.

(8)**FEEDBACK＝Vicsious Cycle of Heating Up by Nature-Ownself.**

    Therefore,once such vicious cycle had been formalized at somewhere,those can not be stopped until the saturation point.

    This could be catastrophic for life on earth.The typical exmaple is **Arctic Methan Catastrophe Possibility**(see **PART-C**)

Fig6

Let's suppose temperature rise: ΔT_G is to generate CO2: $\Delta C = K \times \Delta T_G$

in **looping time** τ , and ΔC rise is to instantly increase $\Delta T_G = A \times \Delta C$,

Then temperature rise speed is $d(\Delta T_G)/dt$ and looping gain＝AK for ΔT_G

$d(\Delta T_G)/dt = A \Delta C/\tau = AK \Delta T_G/\tau$. $\rightarrow \Delta T_G(t) = \Delta T_G(t=0)\exp[AKt/\tau]$.

If $AK=1, \tau=1year, t=10years$ yields $\Delta T_G(t=10) >> \Delta T_G(t=0) \times 22000$

☞ : The most dangerous featue of FEEDBACK is explosive rapid larger change(something catastrophic!!).

    An example of roughly estimated **carbon amplifier gain** A＝year temperature rise/CO2 year increase≒0.03℃/1.8ppm(4.1GtC)

    The same amount of **CH4**(4.1GtC/year) **radiative forcing is 21times** than CO2,so ΔT_G≒0.03℃×21＝0.6℃/y rise is catastrophicl !.

PART-B : The Serious and Emergent Realirties of on going Climate Disasters in the World.

[B1] : The Serious and Emergent Realirties.

1,**Drought Spreads Across Continent**

http://www.worldpress.org/Africa/719.cfm

2,**Drought in Africa(pictures)**

http://www.google.co.jp/search?q=drought,africa&hl=ja&rlz=1T4GZAZ_jaJP409JP433&biw=1280&bi
h=796&prmd=ivns&tbm=isch&tbo=u&source=univ&sa=X&ei=km0FToa4H-2gmQWR3uzNDQ&sqi=2&
ved=0CCkQsAQ

3,**Floods and mudslides on three continents, as drought hits Africa**

http://www.guardian.co.uk/world/2010/aug/09/floods-mudslides-drought-extreme-weather

4,**From draught to floods**

http://english.people.com.cn/98666/102485/index.html

5,**Record-breaking droughts, floods, fires, storms indicative of warming Earth**

http://article.wn.com/view/2011/04/28/Recordbreaking_droughts_floods_fires_storms_indicative_of_wa/

6,**Climate Changed Already--Massive Floods in Asia,Record Drought in Russia,Huge Ice Island breaks from Greenland ?**

http://greenworldinvestor.com/2010/08/10/climate-changed-already-massive-floods-in-asiareco
rd-drought-in-russiahuge-ice-island-breaks-from-greenland/

7,**Floods, Drought Drive World Food Prices to Record Highs**

http://article.wn.com/view/2011/01/05/AccuWeathercom_Weather_News_Floods_Drought_Drive_World_Food_/

8,**Floods, Drought Drive World Food Prices to Record Highs**

http://www.accuweather.com/blogs/news/story/43993/floods-drought-drive-world-foo-1.asp

[B2] : Disasters Category:

http://climate.nasa.gov/evidence/

http://www.ccrc.unsw.edu.au/Copenhagen/Copenhagen_Diagnosis_LOW.pdf

(1)**Extreme events**：**Intensified Draught, Flood,Tyhoon-Hurricane attack Life Infrastructure and Agriproducts.**

(2)**Sea level rise** inv**ade landsink in coastal line by Glacial retreat and Shrinking ice sheets,**

(3)**Ocean acidification** attacks **carbon sink ability decline** of ocean,which is fatal.

(4)**Declining Arctic sea ice is to cause methane catastrophe possibility.**

If current trend was conserved,for the time being,visible (1) and (2) become very serious as time goes on. The world would encounter **food crisis to global famine** and to cause many refugees. (3) and (4) would be fatal in near future.

PART-C : Methane Clathrate the Mass Destructive Thermal Bomb in Arctic(the highest priority problem at now).

[C1] : The paleo-climatology evidences of mass extinction facts by Methane Catastrophe.

⑴**Permian mass extinction by Methane Catastrophe**(251.4my)**.**

⑵**PETM mass extinction by Methane Catastrophe**(55.8my=million years ago).**.**

[C2] : Possibility of Coming Methane Catastrophe in decades.

❶**The highest priority emergent propblem<methan clathrate melting crisis>**

People consider so called global warming is gradual process in coming decades and the crisis would be in future.However the fact is not so optimistic.Now many scientists fear for huge amount of unstable MC＝methane clathrate(ice,hydrade)melting **in Arctic** sea flor by rising sea temeperature 2~3℃.The estimated amount of global MC is about 7000G ton in carbon standard,which is about twice much of fossil coal and fuel reservoir.Methane is more 25 times potent as GHG effect than CO2.Once they emitted to atmosphere,temperature rising accelate that of sea to enhance more emission of methane.It becomes feedback process to **spike out temperature rising**<**Clathrate Gun Hypothesis**>..Abrupt and irreversible **C**limate **C**hange **C**risisi is to attack on earth. Paleo-climatology recently recoginzed mass extinction of pieces by methane burps in Permian(251.4my)and Paleocene–Eocene Thermal Maximum(55.8my=million years ago).The final stage might be hell.

❷**Clathrate Gun Hypothesis the past history and the current situation:**

⑴A Japanese Congress asked the National Assembly on dangerous MC(2000).

He poited out necessity of taking into acccout of MC action in IPCC model of climate change predicting system.**But they have not done !!**

http://www.sangiin.go.jp/japanese/joho1/syuisyo/150/syuh/s150005.htm <Japanese>

⑵Methane:A scietific journey from Obscurity to **Climate Super-Stardom** by Gavin Schmidt(2004/9):

http://www.giss.nasa.gov/research/features/methane/

> *Wei-Chyung Wang(1976),methane in atmosphere is significant greenhouse gas.
>
> *Jerome Chappellaz established chemical precise analysis on trapped air in ice core for paleo-climatology analysis.
>
> *Jerry Dickens(1995)suggested that massive air input of light carbon from MC,
>
> *Jim Kennett(2000)proposed the so-called "**clathrate gun hypothesis**",

⑶Ticking Time Bomb by John Atcheson(2004/12/15):MC warning No1 website.http://www.commondreams.org/views04/1215-24.htm

⑷By Volker Mrasek,**A Storehouse of Greenhouse Gases Is Openining in Siberia**.(2008/4/18).

http://www.spiegel.de/international/world/0,1518,547976,00.html

⑸No Ice At The North Pole: Polar Scientists Reveal Dramatic New Evidence of Climate Change by Steve Connor(2008/6/27).

http://www.commondreams.org/archive/2008/06/27/9920/

☞:Arctic temperature rising is 2~3C,while global average is 1C.Hence Arctic sea flor has becomign more dangerous.See below eerie photo.

http://www.realclimate.org/

⑹Clathrates: little known components of the global carbon cycle :

MC resreviour is about 11000Gton much as twice of fossil resorces.By temperature 1^2℃ rising would trigger the burps bursting.

http://ethomas.web.wesleyan.edu/ees123/clathrate.htm

⑺Michael.J.Benton,WHEN LIFE NEARY DIED,Thame & Hudson Ltd,London,2003.

Permian mass extinction by MC eruption became spot lighted at a burst. Simultaneously also Antarctic MC became spot lighted at a burst.

⑻http://en.wikipedia.org/wiki/Extinction_event、

⑼http://www.google.co.jp/search?hl=ja&q=mass+extinction%2Cmethan+clathrate+&btnG=%E6%A4%9C%E7%B4%A2&lr

⑽IMPACTS:Investigation of the Magnitudes and Probabilities of Abrupt Climate Transitions has launched recently in USA.

http://www.sciencedaily.com/releases/2008/09/080918192943.htm

⑾http://www.climatesoscanada.org/blog/2011/02/17/the-real-weapons-of-mass-destruction-methane-propaganda-the-architects-of-genocide-part-i/

⑿**Why is the IPCC so wrong regarding their methane projections?**

http://uk.answers.yahoo.com/question/index?qid=20091221092156AAluMGh:

⒀**ONLY ZERO CARBON|Planetary Emergency Response|Climate Science for Survibal.**

http://timetobebold.wordpress.com/tag/ipcc/

⒁**Runaway Global Warming—A Climate Catastrophe in the Making**

http://www.zero-carbon-or-climate-catastrophe.org/runaway-heating.html

⒂**IPCC Reasons for Concern**

http://www.climate-change-emergency-medical-response.org/ipcc-reasons-for-concern.html

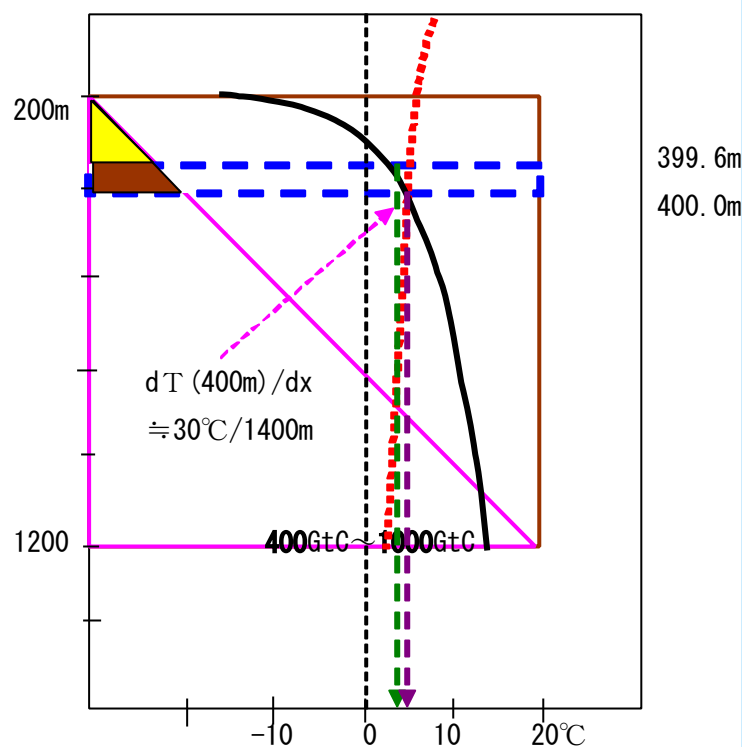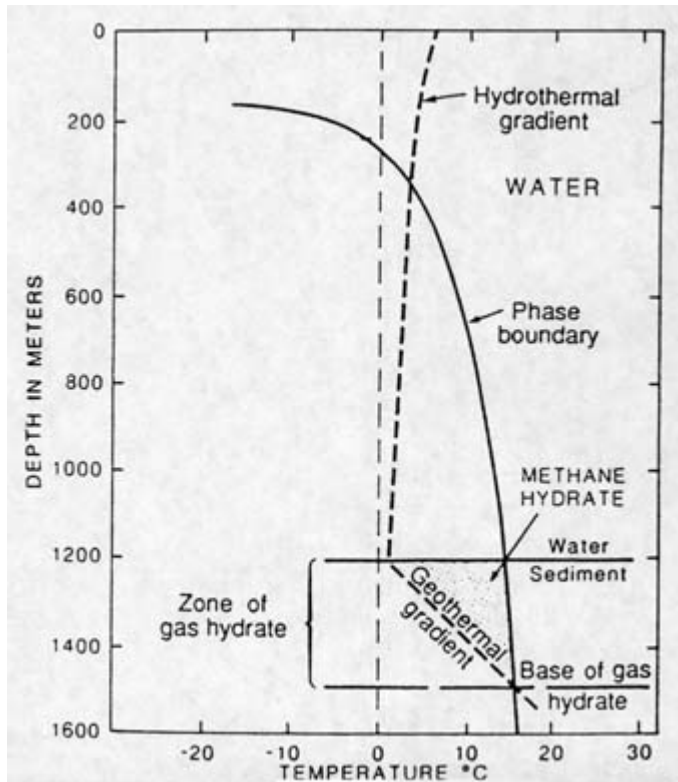⒃**Climate change likely to be more devastating than experts predicted**

http://www.sciencecentric.com/news/09021506-climate-change-likely-be-more-devastating-than-experts-predicted.html

❸Methane Catastrophe Possibility Estimation Example by simple graphe analysis.

⑴**None say it is right now,decades,or hundreds,but none could rule out sudden emission(❷(4)).**

By anyhow,none could observe full reserver reality of MC under ice layer in Arctic.Author could not see theoretical papaer of prediction on methane catastrophe process.However a simple schematical analysis show you the emergent danger of methane.

⑵**Arctic Methane Distribution and Temperature Invasion <**Flg7(up),Flg8(down) **>**

Following are very rough model estimation **example** with simplified assumption. Even though the **huge reserviour size**(400~1000GtC) with **small margin of safely releasing amount**(few mega ton C)never fail to conclude inevitable **dangerous possibility of methan catastrophe**. The kernel of problem is **right direction shifting speed of "hydrothermal gradient"** ruled by **incoming heat flow into Arctic.**

(a)**Pressure(=sea depth x) and** (melting)**Temperature(T) phase diagram.**
MC with deeper depth x is to take higher. melting T.So methan release is to begin from shallow wamer sea flor from 200m as sea temperature T_s rise.

(b)**400~1000GtC MC distribution is roughly assumed uniform one.**
Nothing information is equi-probability for the distribution. See brown line
It'is uniform distribution density from **x＝200~1200m**(the deepest limt of MC)

(c)**T(x=399.6m;t)** is melting temperature of depth x＝399.6m at year＝t.
I'ts gas bubbling point at time＝t as an example assumption..

(d)**T(x+dx=400m;t+1)** is melting temperature of depth x＝400m at year＝t+1.

(e)Then melting amount is caluculated from MC distribution function.

$$<(400\text{-}399.6)/1000>\textbf{1000}\text{GtC}=\textbf{40MtC/year}\equiv \int_x^{x+dx}dx\,D_1(x).$$

$$<(400\text{-}399.6)/1000>\,\textbf{400}\text{GtC}=\textbf{16MtC/year}\equiv \int_x^{x+dx}dx\,D_2(x).$$

Observed value at now is reported "**8MtC/y**" in Siberian coast.

http://www.sciencedaily.com/releases/2010/03/100304142240.htm

T(x+dx=400.0m;t+1) − **T(x=399.6m;t)**≡ΔT≒**0.01℃** ? ,

x+dx−**x**≡dx≒**0.4 m,**(melting temperature invasion of small length)

t+dt−**t**≡dt＝1 year, (fixed observing interval)

dT/dx=0.01℃/0.4m (very small **Melting Temperature Gradient**).

dx/dt=0.4m/y   (Melting Temperature Invasion of small velocity).

Those state may be **sea ice lid effect** making stable temperature shift.

(f)**CONCLUSION:**

Even "increasing very small" **sea temperature gradient becomes fairly dangerous !!!. If sea ice lid was vanished,then what would happen.**

⑶**The most essential factor is heat flow amount into Arctic** $\Delta Q_A(t)$ **by global temperature rise** $\Delta T_G(t)$.
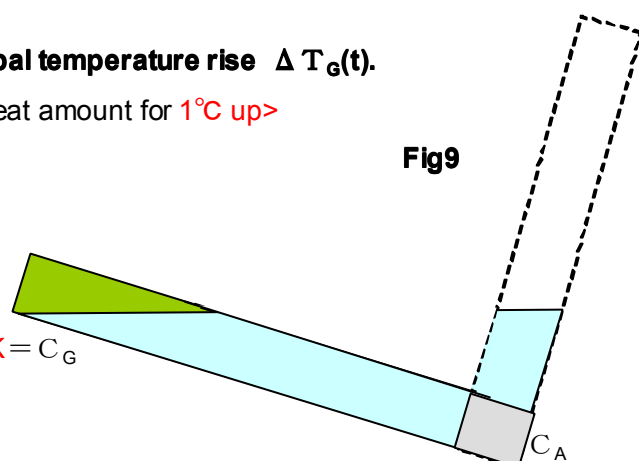
(a)$\Delta Q_G(t)＝C_G\Delta T_G(t)$. <$C_G$=**8.7x10²⁴J/K** : global dynamic heat capacity＝heat amount for 1℃ up>

(b)C_A＝Arctic ocean total heat capacity=**7.3x10²²J/K**≒C_G/10 !!.

$$\Delta Q_A(t)＝C_A\Delta T_A(t)＝C_A\times 1℃.＝7.3\text{x}10^{22}\text{J/K}\;≒\;C_G/10\;!!.$$

Fig9

8.7x10²⁴J/K＝C_G

C_A

(c)**Heat entirely flows from higher temperature zone to lower one.**

That is, heat re-distribution into Arctic is higher than any other zone in earth.

And also the heat capcity C_A of Arctic ocean is a few as C_G/10,of which temperature would be easily risen.

(d)COP16 in Mexico had agreed more 1℃ rise,which would be catastrophic for Arctic(and also for our planet).

http:/www.777true.net/suffer-for-perishing-or-for-surbiving.pdf

(e)**Now Arctic summer ice lid has been declining to "zero" in a few years !!!**.

Note Arcitic temperature rise is 2~4 times larger than global one. **Therefore Arcitic T rise＜1℃ need global T rise＝0.2~0.4℃.**

This problem may be far difficult than climate science facts,because the most duty of **climate justice** is **IPCC**'s work,but they don't do.

However, now is fatal time when none should say who is what,but what is emergently necessary.It could not be nothing without the truth.

(1)The current scenario of COP16 agreement= 1 ℃ rise is decisiveley catastrophic without "salvation" !!!.

(2)The most severe scenario of almost zero emission(=max carbon sink) is about 0.3℃ rise. Even this might not be sufficient.

Because,0.3℃ rise seems not assure safety,then temperature rise in Arctic may be 1℃ rise,which could not say safe for the Methane

Catastrphe Possibility in Arcitic.The last chance may be setting **water gate at Bering strait** to shut down heat flow from Pacfic ocean.

[A1](5)(f)Ⅱ : EGT is an equation of $T_G(t)$ which can be solved explicitly by assigning (m,@(t)} as a function of programmed GHG concentration.

http://www.777true.net/Global-Temeperature-FACT-7.ppt

☞:Above mentioned method predicted about **0.3℃ rise in 30 years** by **zero carbon emission simulation**.

{390ppm(at now)−**350**ppm(by J.Hansen)}/<**1.5ppm/y:max carbon sink**>≒**27 years**.

(3)**Therefore,our "possible limit scenario" is more than 80% carbon reduction from right now !!!** .

[D1] : **Conclusion as Our Aim(Carbon Condition=CC the minimum and decisive postulate for our surviving).**
"If people once had agreed, they would endeavour to make better life under the constrain＝CC(1)(2)".

(1)**Maximizing Atmospheric Carbon Sink** by **Marine and Land Vegitgation** to increase Heat Disspation from earth into space.
 → **Operation Global Forestization,geo-engineering,...**

(2)**Saving Food Production and Supplying** for Citizens Life by **Minimizing Carbon Emission**.
 → **Recommending Foods and Eenergy self-sufficient communities** in villages,districts,nations,

[D2] : **Declaration of Global War against Atomospheric Carbon toward Global Total Resetting.**

It's Discontineous Regime Transition,because of considering each individual and corporation affairs are too much time loss.

With **decisive prepareration duration,**we must make **"Declaration of Global War against Carbon at definite day".**

Emergent Global Command on Limit to Carbon Fuels !!!.

Unless this command,all the life on earth would be encounter terrible heat hell world to perish.
Then which do you opt suffer for perishing or surbiving ??.

(1)**Only by global agreement could accomplish the operation aim,**→ **Easy comprehensible,but Decisive the full Explanation**.

(2)**Only by global strict management could accomplish the aim,**   → **World Milatary Force with GHQ established by democrat way.**

(3)**World Milatary Force with GHQ(General Head Quater).**

By global agreement on endeavouring **CC** ,**global military** is to manage and to execute and global citizen join the military farmer soldier

for the emergent duration(**operation GLOBAL RAMADAN**). → http://www.777true.net/OPERATION-GLOBAL-RAMADAN.pdf

WMF duty＝management on

(a)**Food support & Carbon Police Activity**

(b)**Forestization,geo-engineering,....**

(c)**climate observation,prediction,the bulletin,**

(d)**international dispute settlement, international migration support**

(4)**Each nation government's duty.**

Under the global military management,each nation government do ensure people's life with **constrain of CC**. .

(a)**optimizing food & energy supply for secure people's life.**

(b)**producting labour assignment(management on national farmer soldier),**

(c)**resetting financial system,managing industry etc.....**

[D3] : Limitaion on Carbon fuel and the Resetting Nation Production Systeme before the Declaration Day.

How to manage **carbon fuel rationing** may be high priority task for government for the initial time being.This emergent situation has an aspect of something like **retro-recovering way of life with small fuel energy dependency**.But **computer aided tools with CC** could be available.

(1)Only industry activity **fitting with (1)(2)**<≡**Carbon Condition≡CC**﹥ could be chosen.
  → agri-works,fishery with minimum **logistics＝the 1st fundamentals.**
  This is **food-energy self-sufficient(or more)communities the very best fundamental.**
☞:machinery works in farm might be changed to hand works for **CC by** national farmer soldeir(≡**NFS**)**.**

(2)Most of **carbon extravagant industry** would be closed. → **jobless could join national farmer soldeir with food-house assurance**.
  Those are simuletaneously bankrupcy of many corporates,so **global financial resetting is also decisive**.Debt and Bond shall be vanished.
  Nation people must become a family,therefore all of their debt and wealth must be devoted to a mother＝nation.(This could be simuletaneous relief of now world encoutering **unprecedental debts crisis in almost nations on earth**. Confusional them now has no decisive reliefing method). Nation farmer soldeir(≡**NFS**) is generalized version of current military regime,where,people could be join military by their proposal. It is the most national project reliefing jobless people and enhancing people life for fitting **CC**.

(3)**Other bussiness farm except above mentioned (1)(2) are to be closed or continued due to its necessity under the new regime.**
  → **jobless people could join soldier.** → **coorporate bankrupcy reliefing** by vanishing debt duty as national policy.

(4)**Energy Industry:**(**hydrogen,natural resouces** and **atomic power** would be available).
  Carbon fuel could not be available any more !!!!!.
  People and community are recommanded to develop **own low cost local generator by various energy resource under the condition CC**.
  Clasical Dutch style windmill is low cost and could be stable power generators.
(5)**Communication and information industry should be saved with CC.**
(6)**Traffics Industry with CC:**
  Long distance transport by fuel energy could not be employed any more,but railway would be recommanded for special goods.
  Massive loading railway and **ship** traffic are best energy efficiency.Larger sail boat and ship are best.Employing cattles are good.

(7)**Nation People Big Migration to Agri-Districts(country,foreign nations)＝national farmer soldeir.**

  To maximize people for fitting **C**arbon **C**ondition(1)(2), nation people should become farmer,so they must evacuate to districts.
  Then how to save farm and home ?,Those could low cost camping tents of soldier for the time being. Farmland could be lental by Nation..
  Teachers and Doctors ?,also they should migrate, or **minimum energy online works** would be recommanded.

(8)**Fundamental and Decisive Postulate of PART-D is unique and only CC.**

You could do anything you want under the condition "CC for all survibing".