

CHAPTER-17

GLOBAL-WARMING AND ICE-AGE/HOT-AGE CYCLE

Highlights about the chapter GLOBAL-WARMING AND ICE-AGE/HOT-AGE CYCLE in MATERIALISTIC UNIVERSE by Ramesh Varma.

Note: Chapter over GLOBAL-WARMING AND ICE-AGE/HOT-AGE CYCLE is not an encyclopedia. Challenger has illustrated only which relates to the new or contrary findings/understandings with some existing references to make the subject understandable.

Global-warming:

- We can not delay Global-warming caused by the Modern-human beyond a few decades.

Ice-age and Hot-age cycle:

- World does not know the correct reason that what causes Ice-age and Hot-age cycle. Challenger has concluded that the cycle is formed by the life (vegetation and live) because of the gases (particularly by the carbon dioxide) and water/ice/snow. In the absence of life, the said cycle is not possible.
- Period of Ice-age to Hot-age is very short; whereas period of Hot-age to Ice-age is extremely long. This phenomenon too is by the life over the Earth.

CHAPTER - 17

GLOBAL-WARMING AND ICE-AGE/HOT-AGE CYCLE

GLOBAL-WARMING:

World:

World knows much more about Global-warming but Author has something more to say which is unique and new.

Author:

Presently Global-warming is a hot topic and extremely important for us to understand the reason behind, so that proper measures could be taken early to halt/slow this trend. Earth had experienced in the past a number of **Ice-ages** and **Hot-ages** as natural phenomenon but now present **Global-warming** is due to human, which modern-human is accelerating. The following some queries and their answer are eye-opener.

● Can we stop Global-warming?

No, never.

● Can we delay Global-warming?

Yes, theoretically we can delay it for centuries, but practically we would not be able to delay beyond a few decades.

● Why we can't delay Global-warming for long?

Answer is simple; every Nation wants to develop ahead of the other, which is not possible by stopping or conserving '**fossil-fuel (coal, oil and gas)**' and every person desires that all most all persons should use bicycles but for him/her self, he/she wants to have a big car, rather a fleet of different cars. World cannot march towards the cave-era unless Nature compels (or creates circumstances) for human to live/do so.

● Why the World leaders/experts are claiming that by the year 2050, measures taken by them (World) would reduce Greenhouse effect gases/emissions leading to save Earth-environment?

As already stated that theoretically it is possible to major extent but what they claim, practically is not possible to that extent. Further experts have not yet understood properly all the factors related to Global-warming (Hot-age) and Ice-age (both are co-related in a cycle). Among so many factors, some have been illustrated in this chapter.

● Is Global-warming only due to carbon dioxide gas in the atmosphere, as the World is beating the drum?

It can never be so; all the gases of any nature/kind have their own effect to cause 'Greenhouse effect' but with variable magnitude, carbon dioxide with the greatest property to effect so. Presume that if our atmosphere has double dense atmosphere and by keeping carbon dioxide contents as the same; would we have the same temperature over Earth? No, it would be much higher, so it is the density of the atmosphere gases, which plays the role in 'Greenhouse effect' and not only carbon dioxide concentration.

More about Global-warming is in sub-chapter 17-B after Ice-age and Hot-age illustration.

● Is the use of CNG (Compact Natural Gas) instead of Diesel is the substitute to reduce the effect of Global-warming?

It seems so, because we could not see the black/grey smoke coming out from the exhaust pipe of the vehicles/generating-sets etc. Burning of CNG has the same/similar effect over Global-warming.

● Is the use of electricity (Electric-vehicles) is the substitute to reduce the Global-warming?

It seems to be so, rather every one understands so. This all depends upon that how electricity is being produced, which has charged the battery of the electric-vehicle(s). Major part of the electricity is being produced by the burning of coal or gas in thermal-planets.

● Is the use of bio-fuel a substitute to reduce the effect of Global-warming?

It seems to be so, rather every one understands so. Bio-fuel is produced from the agriculture-produce. For its production diesel and electricity is used by the tractors and fertilizer producing planets. They cause Global-warming effect in producing agriculture produce.

CHAPTER - 17-A

ICE-AGE AND HOT-AGE CYCLE

World:

What the World knows about Ice-age and Hot age cycle?

FROM THE INTERNET: JUNE, 2007

Causes of ice ages?

We are not sure why ice ages begin and end, although there are many theories.....

Existing theories and what the World understands?

(i) Continental drift starts the Ice age: Continental drifts due to collisions between the continents create mountains. Snow starts to fall over these mountains. Snow reflects back Sun's heat to space, so earth cools. Melting of some ice takes the minerals to sea by the rivers. In this course minerals join with carbon dioxide from the atmosphere to reduce greenhouse effect, which further cools the earth.

(ii) Drift of continents also change the water flow, change in the direction of wind too takes place. This develops a change in the earth weather from hot to cold or from cold to hot.

(iii) Changes in the Sun's release of energy could also cause change in the earth's temperature.

(iv) Sun's movement round the Galaxy might have lessened the sunlight reaching the earth to cause Ice-age.

(v) **NOTE:** To understand properly that what Author (challenger) has concluded, one must read and understand from the existing books or from the Internet that what World knew/knows about Ice-age prior to Author's deceleration (May, 2007).

Author:

From the last 30 years, Author (challenger) was thinking like world's thought that Sun must have resulted Ice-age by reducing Sun rays or Sun by going away from Earth but after understanding and writing 'MATERIALISTIC UNIVERSE', Challenger understood that what actually is causing Ice-age or cycling eras of Ice-age and Hot-age.

Very important to keep in mind: From the day human civilized (or stopped living like animals), he took charge of the Nature to his hands and started disturbing the Nature balance/cycle/trend. Prior to human every phenomenon was natural; Ice-ages and Hot-ages too were natural. So to understand Ice-age and Hot-age, it is better to keep off the period of human from the day of his civilization. What civilized-human had/has resulted would be understood later.

Prime and true factor responsible for the cycle of Ice-age and Hot-age:

Life has been formed by the solids, liquids, gases and white-matter but life on destruction sheds the all. So, it is the bio-matter (life) over the earth surface and in the sea water which on its development, flourishing and destruction controls/varies the air density of atmosphere resulting to decrease and increase of Greenhouse effect to cycle the Ice-age and Hot-age. Thus the following factors are responsible for Ice-age and Hot-age.

- Life (vegetation and moveable) on earth surface:
- Life (vegetation and moveable) in the sea:
- Water:
- Snow/ice:
- Atmosphere gases:

To understand this phenomenon of Ice-age and Hot-age, we have to understand our Earth's atmosphere from the beginning of solar system. As already illustrated/stated under the relevant chapter in 'MATERIALISTIC UNIVERSE' that our Past-small-Earth had a thick/dense atmosphere of gases but less dense than the Past-small-Venus. (Now present-Venus has 90 times thicker atmosphere than present-Earth, thus present-Venus temperature over its surface is sufficient to melt lead). Our Past-small-Earth atmosphere was very hot, but much lesser than Past-small-Venus due to less denser atmosphere and also Past-small Earth being far away from the Sun as compared with Past-small-Venus.

As already illustrated/stated in the relevant chapter of 'MATERIALISTIC UNIVERSE' that semi-live microest life has converted most of the atmospheric gases to water and which had resulted to lower the temperature from extreme-hot to warm.

Said developed warm climate resulted to develop microest-life to micro-life and micro-life to some developed-life in the sea. By developing life, so developed life consumed most of the remaining gases from the atmosphere and this resulted to lower the temperature further. After developing life in the sea; life moved to islands/sea-coasts and from there to the plains over the earth. Later life spread all over the globe. In this process (formation & building of bigger and bigger) life in the sea and over the land consumed major part of the gases thus resulted to cool the earth more and more. In this process of cooling (formation of snow/ice), more and more land was exposed to Sun rays due to shrinking of seawater and accumulation of ice layers over ice in the ice-zones. This process exposed a greater part of the land to accommodate more and thick life. The said life process took billions of years to reach just near the Ice-age. (In this long period, life, which had perished and buried in the Earth, released back some gases to space, which they had consumed to build up their body but some part of the gases consumed went deep into the Earth in the form of fossil-fuel). Thus a saturation stage reached in life-development and caused low temperature due to depletion of gases from the atmosphere, which resulted to bring Ice-age.

Start of the reverse trend towards Hot-age:

It has already been illustrated under the relevant chapter of the Book 'YOUNG AT 100' under 'DINOSAUR' that any life when reaches at the peak of its development and tempo of development as per the body-mechanism/custom/habit/trend ceases to develop further, it has to die/perish or to go extinct. Under this Nature's principle life over the Earth in Ice-age era started perishing because life could not keep its tempo in development in extreme cold conditions. Life over the Earth remains in existence only around the equator or those species survived that were developed to bear the extreme cold. Most of the species in the sea also perished due to extreme cold

water/weather. In this process some of the gases consumed by them (life) went deep inside the Earth as fossil fuel and rest of the gases remain burned in the form of car-cases of the life under the snow/ice. Decay of the life released gases to space which resulted to trigger climate-change towards Hot-age. This resulted in the increase of earth's temperature. Again earth got the hot climate but peak of temperature this time was much lesser than the previous hot-peak because of the formation of fossil-fuel and surviving species (life) than the previous cycle.

Restart again towards the Ice-age:

Hot temperature must also have depleted life from major part of the plains which would have survived in Ice-age, but life from; mountains had already been depleted by the Ice-age era. Hot temperature also resulted to spread seawater to most part of the plains; sea water too depleted life over the plains. So, life lift over the Earth in between peak of ice-age and peak of hot-age was rare because period of Ice-age to Hot is very short as compared with the period of Hot-age to Ice-age. Now life again started from the sea water to spread all over the globe but this time life not developed from the step 1, but from the next step.

Present Earth:

By now, our Earth would have experienced a number of Ice-age and Hot-age cycles. In every cycle our earth would be experiencing a little less hot-peak than the previous due to depletion of gases from the atmosphere by the formation of fossil-fuel and more better developed life.

**How hot and cold weather trend lead to their peaks?**

Once a cycle is set from the hot towards the cold, weather becomes warmer; warm sea water develops small life and provides opportunities to spread life to more and more in number, over more and more area; with more and more denser-population and more and more big thus depleting more and more air from the atmosphere to build them (life). They (life) on reaching at their peak bring the temperature just near the Ice-age.

Now at this stage due to greater part of Earth being covered with ice, ice and snow reflect back heat in sufficient quantity resulting to cool the Earth. This cooling further cools the atmosphere thus Earth got more ice & snow over more area. Thus a trend is developed to cover major part of the Earth with the ice/snow till a peak of Ice-age reached. Cooling adopts an accelerated magnitude also by another factor 'carbon dioxide' (gases) relationship with water/ice/snow as illustrated ahead resulting to bring peak in Ice-age.

After reaching at the peak of Ice-age, cool trend is reversed by the destruction of life as illustrated earlier in this chapter.

When Ice-age peak is over, temperature starts rising due to increase in the density of atmospheric gases by the destruction of most life over earth. Due to increasing temperature, seawater starts expanding. Hot conditions melt ice; melted ice melts more ice thus a trend to melt ice developed till the whole or almost whole ice is melted. Increasing heat kept on destroying remaining life gradually to develop the atmosphere denser and denser till a peak in hot is reached. Rising temperature adopts an accelerated magnitude by another factor 'carbon dioxide' (gases) relationship with water/ice/snow as illustrated ahead.

**Carbon dioxide (gases) relationship with water/ice/snow and temperature:**

Water/ice/snow retains carbon dioxide and most of other atmospheric gases by dissolving and trapping too; lower the temperature of water greater the retaining capability. (A bottle of beer or soda water if not cooled enough, on opening contents in the bottle release dissolved carbon dioxide to greater extent as compared to when beer or soda water is chilled-cool). This property of cold water associated with the reflection of light by the ice/snow as stated above helps the Nature to drop the temperature over Earth in much shorter duration. Reflection of heat by ice/snow accelerates to lower the temperature. Lowered temperature results to increase the capability of water/snow/ice to absorb more gases; resulting to further lowering the temperature; Lowering of temperature helps water/snow/ice to absorb more gases, thus this process too accelerates along with the

acceleration process of cooling adopted by the reflection of light. Thus both the processes result to lower the temperature within short span of period. Due to this short span of cooling most of the vegetation/life could not cope with the sudden drop in temperature and thus perished or went extinct.

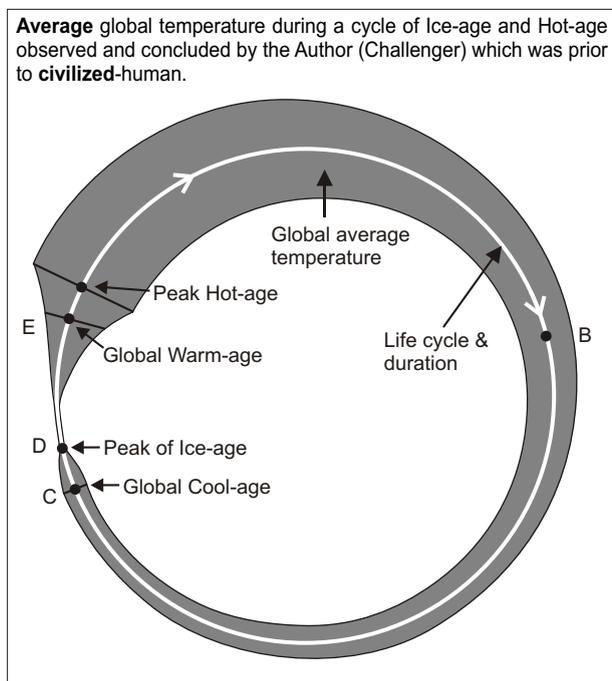
Similarly when cycle of Earth approach towards hot peak, melting of ice/snow releases carbon dioxide and other gases; warm/hot water too releases dissolved gases, thus an accelerated cycle is developed to bring early hot peak.

Ice-age and Hot-age duration:

From the observed factors which result to bring Ice-age and Hot-age. Author (Challenger) has concluded that:

- Period from the peak of Hot-age to Ice-age would be much greater than the period of Ice-age to Hot-age.
- Period from the peak of Hot-age to near the Ice-age would be extremely longer than the period near the Ice-age to the peak of Ice-age.

To understand properly what Author (Challenger) has concluded, below is the observed cycle with observed period durations.



Further tempo of life can not work better under the period of Ice-age to Hot-age but it would function better due to body struggling principle from the hot period to Ice-age. So over Earth period of Ice-age to Hot-age would be sluggish for the life and life would be rare in this period. This principle of life concludes that prior to civilized human existence, life over Earth would have been marching towards the direction of Ice-age, but it was/is the human who reversed or diverted the process towards warm age as illustrated.

Recoument of lost gases by the Earth:

Our Earth might not have faced a declining peak temperature on its every Hot-age cycle due to a Natural phenomenon of losing gases by the formation of fossil-fuel as illustrated below:

Depletion of some air (gases) by forming life and there after vanishing life resulting to form fossil fuel which results to deplete some amount of gases permanently from the atmosphere thereby reducing temperature of Globe. This loss in gases or temperature is being recouped by the scattered massed around our Earth, like meteors, meteorites and space dust etc. Gravity of Earth keeps on sucking these masses since their formation. When these masses enter atmosphere, they burn and leave ash in space. In this process they add some gases in the atmosphere and also results to add mass to our Earth too. Addition of gasses results to increase the

temperature and this process may not fully balance the loss in gases thus in temperature; this might be more or less and would vary period to period.

Some of the factors which the World understands the reasons behind Ice-age:

(i) World: World understands that creation of mountains result to increase area of snow over Earth, which results to Ice age:

Challenger: Snow or ice over the Earth/Mountains cannot be the reason behind the cycle of Ice-age and Hot-age. However area under the snow affects to lower the temperature of Earth and Mountains.

(ii) World: Formation of compounds by the minerals with carbon dioxide results to deplete carbon dioxide, which results to cool the Earth:

Challenger: Consumption of gases by the formation of some compounds with the minerals could permanently lower some temperature but can never trigger a cycle of Ice-age.

(iii) World: Due to changes in the positions of continents, water and airflow changes and that would have resulted to cool the Earth:

Challenger: Change in the flow of water or of the air due to any change in the continent position also cannot trigger any Ice-age and Hot-age cycle over the Earth.

(iv) World: Sun's movement round the Galaxy might have lessened the Sunlight reaching the Earth to cause Ice-age:

Challenger: Sun, while moving (along) the galaxy, Sun alone cannot go far off by leaving behind Earth or all the planets. Sun moves along round the galaxy with its entire family i.e., solar system with no variation in the distances while orbiting along the galaxy. So this factor can never be the reason of Ice-age. (This observation of the World must be from the non-Astronomers, that is why such extremely wrong observation has been considered for the cause of Ice-age).

(V) World: (June, 2011) Scientists of NASA by observing the Sun have claimed that Sun is losing its intensity from the year 2013 and by 2020, decrease in the intensity of Sun-rays would trigger the begging of the Ice-age.

Challenger: Any decrease in the intensity of light/heat (rays) from the Sun for another some million years till Sun loses nuclear activity can not bring Ice-age to the Earth as the cause of ice-age over the Earth till date is not the Sun (or its rays) but it is the life (living-beings and the vegetation), which varies density of the gasses in the atmosphere.

Distance of the Earth from the Sun is not fixed; it varies as per the intensity of rays (thrust) and by the gravity (pull) of the Earth and the Sun. If Sun decreases its intensity of rays, Earth would shorten its orbital distance to approach near the Sun. Any loss in the intensity of rays from the Sun would be compensated by the approach of the Earth near the Sun. So, any decrease in the intensity of Sun-rays can not become the cause of Ice-age.

CHAPTER - 17-B

GLOBAL WARMING

Author (Challenger) has concluded that prior to civilized-human; Earth was marching towards next Ice-age. At that time, earth might be at the position (B) as shown in the graph sketch but civilized-human from that day stopped living like animals thus diverted the climate trend towards warmer, which would lead to extreme warming, resulting to develop conditions similar to Global-hot (Hot-age).

Man had/has disturbed the Nature's balance. Prior to exploration of fossil fuel, human destroyed/burned vegetation (forests), which resulted to release in a considerable amount of gases to the air and had/has resulted to increase in the global temperature. But from some centuries man had/has started exploring coal. Further from the last century human explored oil and gas (fossil-fuel). These fossil fuels along with coal are being burned with accelerated magnitude. This process would continue till these all are exhausted or human is wiped out from the Globe.



(After global-warming by the modern-human; what would lead to peak-hot climate like Hot-age)?

Ever increasing day to day developments of the modern-world would result to develop circumstances that would bring Global-warming early at the accelerated rate. Once a Global-warming peak is reached; Nature would take charge from human and would result to increase temperature suddenly and at the accelerated rate, similar to the /natural phenomenon of Hot-age peak.

This time peak-hot temperature would be more than the subsequent previous Hot-age peak temperature due to addition of gases in atmosphere by burning of fossil fuel and loss of the vegetation from the Globe by the modern-human in addition to the natural wiping out of the vegetation/life.

Now we are marching with accelerated speed towards Global warming which would lead to Global-hot to provide a chance to the Nature to restart life from the few fittest.

Conclusion:

Human can not stop this trend of Global-warming; however some measures can only delay the peak period that too not for more than a few decades. The following facts are eye-opener.

- We cannot limit population, which is responsible for all the factors:
- We cannot curb our needs; most needs are based on fossil fuel.
- We cannot stop our development, our almost all developments directly or indirectly are related to fossil fuel.
- We cannot stop the use of fossil-fuel till these are exhausted:
- We cannot increase forest cover:

(Name the country, which can do so? Hence our fate is decided, better we should develop our self (body) and our generations to bear the warm/hot to face the climate challenge along with developing means/measures to delay Global-warming.

