

## Save the Whales and all the other living things

Turn Down the Heat (2015 May 20) - Final Project - J.E.Archibald

There has been a lot of research into the issue of Global Warming (GW) and the bottom line indicates that we, the citizens of the “Earth”, are the cause.

The BAD NEWS is that GW is going to cause major havoc and destruction to almost everything we know: the land on which we grow our food, the oceans from which we obtain our fish, the cities in which most of us live and the loss of many many species of animal and plant and fish.

The GOOD NEWS is that, with extreme effort, we might be able to stop the GW at PLUS2C (2°C over preindustrial temperatures).

And then again more BAD NEWS, we seem not to be serious about the solution. Major countries and corporations are continuing on as “Business as Usual”. A delay of getting serious about GW of 5 years or so might be just too long to wait and we just might go over the tipping point from which there is no recovery.

I would put the probability that we can stop GW at PLUS2C at about 20% From what I understand, once we get to PLUS2C then it is “game over” and we will gradually venture into higher temperatures like PLUS8C and more. This is what I see the future to be.

In light of the above, I suggest that we must save what we can of the animals and plants and fish etc. that will be lost in the coming decades, centuries, and millenniums. We must save as much as we can so that some future intelligence, maybe our ancestors, will be able to recreated those animals, plants, fish, etc. as desired.

### Short term - live - The Zoo

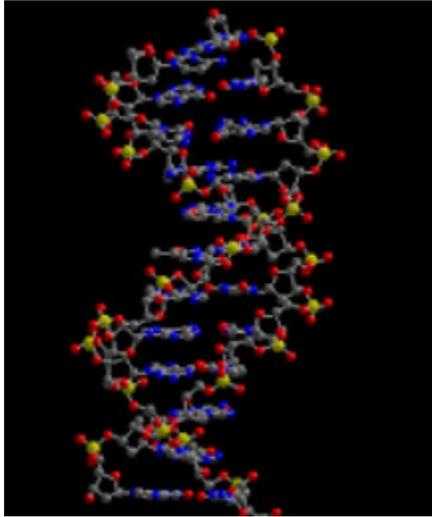


In this scenario, several areas of the earth would be identified as being suitable for maintaining large populations of at risk species and the eco systems would be modified as necessary to ensure their wellbeing.

These areas would of course be identified as being relatively stable for the long term, if that is possible.

This would include various land and sea areas to accommodate as many animals as possible. The sea water would be in a land locked giant sea that would have to be modified to prevent acidification. There would be walls or fences on the prairies to prevent certain species from dominating others. And hills and mountains and all the various terrains.

## Long term - DNA - Jurassic Park



In this scenario, there would be huge DNA banks created of all existing life with the hope that the DNA of an extinct creature or plant would allow our descendants or other intelligent beings to recreate the organism. A **Jurassic Park scenario**. The current status of analyzing the genome of a vast variety of plants, animals and bacteria and viruses has progressed so fast in the last decade that the researchers just might be able to do ALL living things. The trick of course would be to use this digital information or DNA samples to recreate the organism from the collected DNA. I think that this is possible but I do not know. Lots of work to be done.

This brings up the problem of gathering the DNA of all of the variations within the species and sub-species such as size, colour, and all of the other attributes. Conceivably, this would require collecting the DNA of all of organisms available: You, Harry, Sally, Kaliel, Hans, Kayode, Changming and all of the 3,500 Grey wolves, the 393 Amur Snow Tigers, and all of the 40,000 asian elephants, and on and on. This is huge task.

There would have to be many of these banks in various parts of the world to be multiple backup copies so that the loss of a single bank would not be serious.

This project would be extremely costly but could prevent the extinction of 1/2 of the species that we currently have and that are killed off even now at a great rate because of human activities including GW, pollution, and predation..

## Conclusion

The above proposals may be considered by many to be a bit harebrained but maybe some of the people who are dragging their feet on the GW issues will begin to think about what is going to be lost if we go over PLUS2C.

