

Strong Draught the non humidity conserving mechanism_2 2013-4-18

For **land**, long time of high temperature with nothing cloud (**draught**) is most effective heat dissipation from **earth**. Those are **natural healing process of warming earth**. Now draught has been devastating many countries' food products with water shortage, which would be fatal for global people's livelihood, unless emergent global and decisive counter measure.

* **1/3 of the global population** is living in **water scarce conditions** since 1990.

http://www.hmndp.org/sites/default/files/docs/Briefing_note_UNCCD_APF_Drought_Water_Scarcity_21213.pdf

Unless drastic global counter measure, the 1/3 would become **2/3** before long.

1) The Summary:

Draught is **no input and more output of humidity** in **high pressure air mass** without **cloud**. Then problem is what causes **long duration stability** of draught (such as **deserts**) ?

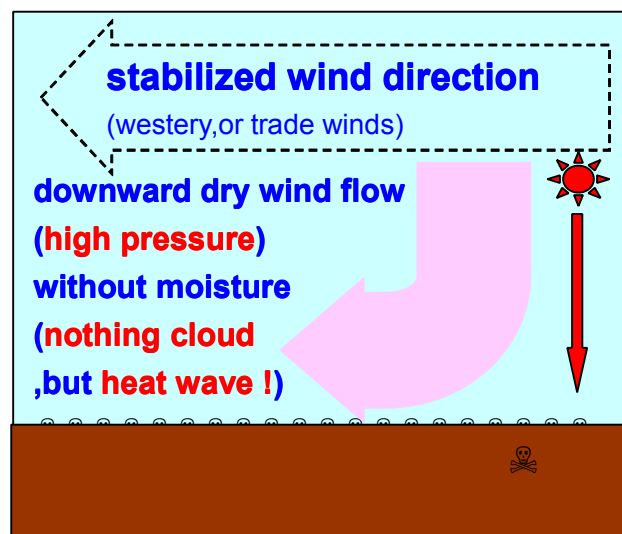
Those has been caused by essentially **global warming** with **peculiar topography of draught regions**. Therefore the overcoming is far simple, but **necessary of global and long term counter measure**. If fail, we would have been in hell in coming years.

(a) **Draught mechanism** may be **universal** as **stabilized downward dry wind flow (high pressure) without moisture (nothing cloud) which is to cause dry and heat lands**.

(b) **basins with mountain range** from where **stabilized wind flows** over the mountain with strong rain fall wiping out moisture and flows downward to basin with high pressure and nothing moisture <the details in (3)>.

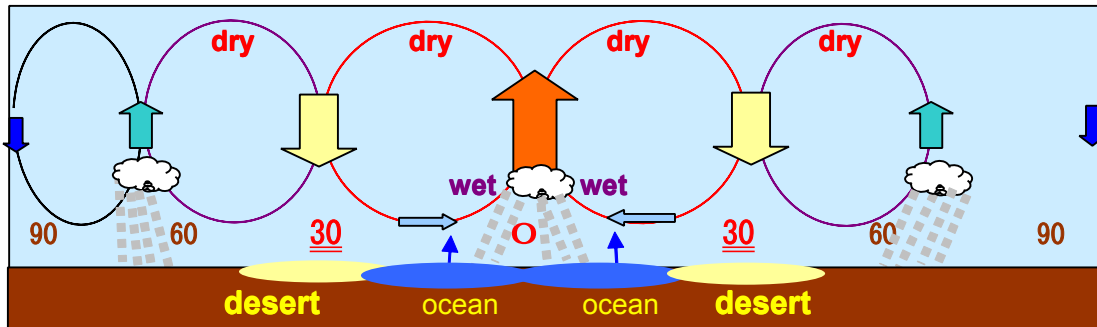
(c) **coastal lands with relatively cold sea surface offshore** into where **stabilized wind flows** form warmer ocean with strong rain fall having wiped out moisture and downward to the cold offshore with high pressure and nothing moisture <the details in (4)>.

Global warming is likely to cause stronger evaporation causing stronger rain (floods) at somewhere, then the stronger rain may have wiped out humidity to cause draught at otherwhere. Precipitation needs uprising air flow with sufficient humidity due to land, while draught land can't supply the humidity. This could be positive feedback for being draught.



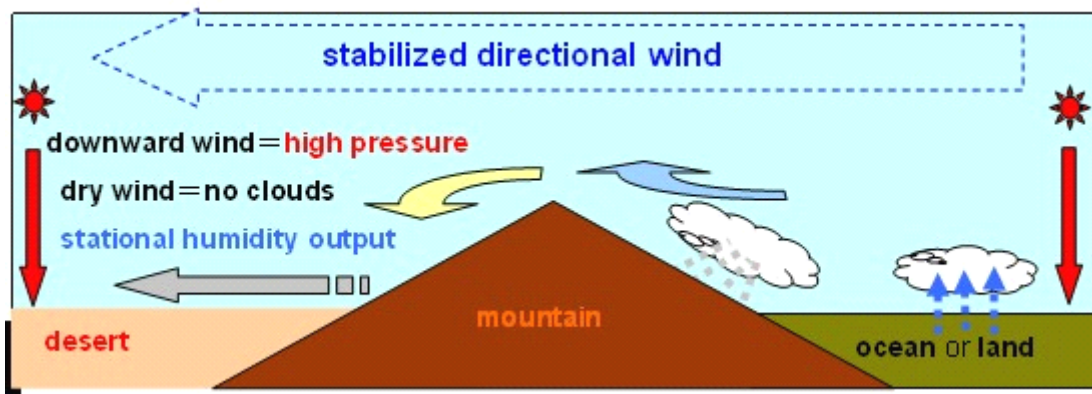
(2) **Stational global 3 air mass circulations and dry components toward 30° region.**

http://en.wikipedia.org/wiki/Atmospheric_circulation



Latitude $30 \pm 15^\circ$ deserts = {Sahara, Kalahari, Arabian, Great Victoria(Australia), Great Basin(USA),,,,}. **Almost deserts lie under latitude 45° .** Above climate configuration in latitudes seems fundamental to cause draughts(desertization). Some deserts are with high moutains at southward or westward from where wind comes with humidity lost.

(3) **basins with high moutain range (topography) are found in desert zone.**



Mountain climbing air mass(uprising flow)with humidity is to become cold and cause rain fall and to be dry.While downward flow become hot with high pressure without cloud to cause draught.Massive evapolation by warm sea surface would become big flood in uprising air flow. Massive rain fall might become more dry. See this with map of **Mexico** topography. http://www.data.jma.go.jp/gmd/cpd/db/el_nino/clmrep/sst-global.html

(4) **coastal lands with relatively colder sea surface offshore** into where **stabilized wind flows** form warmer ocean with strong rain fall having wiped out moisture and flows downward to the colder offshore with high pressure and nothing moisture.The kernel is high pressure at relatively colder offshore caused by cold deeper sea water upwelling at coastal offshore.**East Africa,West India** and **East Brazil** draughts may be this type.



(5) In author's short time observation, drought may have two typical type, major one may be **high mountain to low basin type**(3), another one **hot ocean with cold upwelling spot type**(4) = east Africa-Brazil type facing near hot ocean, however moisture never reach land, while moisture transfer to onshore is disrupted by strong rainfall over the ocean.

"Global Drought Monitor"

http://drought.mssl.ucl.ac.uk/drought.html?map=%2Fwww%2Fdrought%2Fweb_pages%2Fdrought.map&program=%2Fcgi-bin%2Fmapserv&root=%2Fwww%2Fdrought2%2F&map_web_imagepath=%2Ftmp%2F&map_web_imageurl=%2Ftmp%2F&map_web_template=%2Fdrought.html

(6) **Strong Drought in USA and Mexico the W acceleration mechanism ?!!.**

Note north Mexico and South USA are in **latitude 30° region** of possible desert zone(2), where dry **mountain** downward wind flows with high pressure. And also **cold sea surface temperature at east pacific ocean (La Nina)** generates westerly wind with **less humidity** into those the region. One of key mechanism is cold **La Nina** in global warming (Appendix_1).

Mexico faces worst drought in 70 years.

<http://www.intercambioclimatico.com/en/2011/12/09/mexico-faces-worst-drought-in-70-years/>
<http://repintube.com/mexico-faces-worst-drought-in-70-years/>

US Drought Monitor

<http://droughtmonitor.unl.edu/>

http://www.huffingtonpost.com/2012/07/21/causes-of-midwest-drought-2012_n_1690717.html

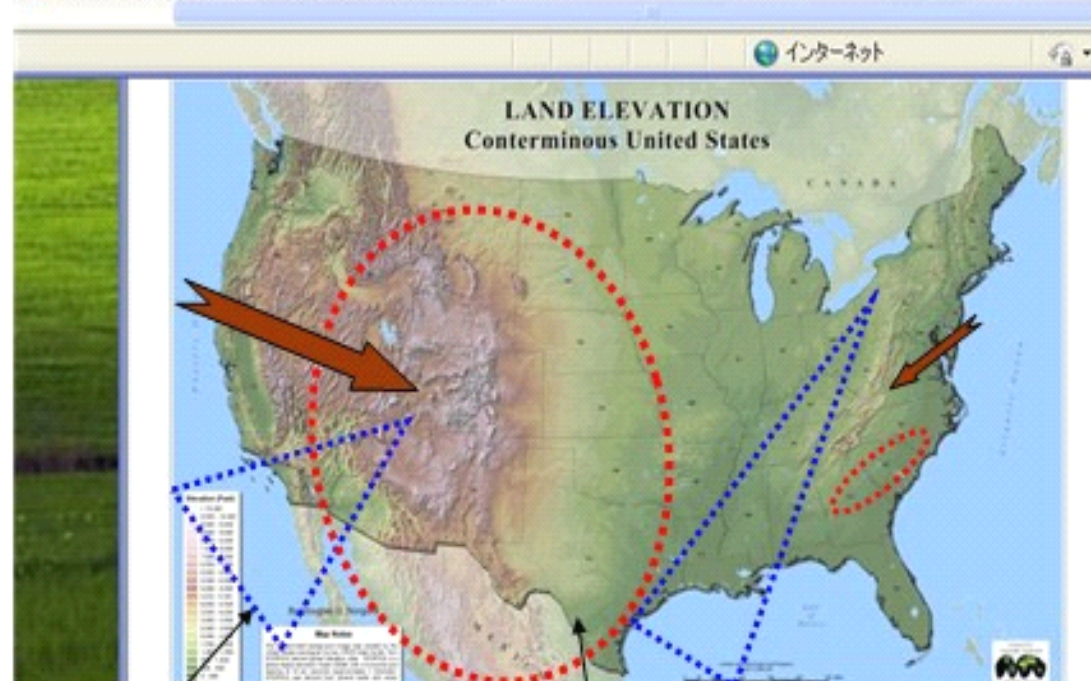
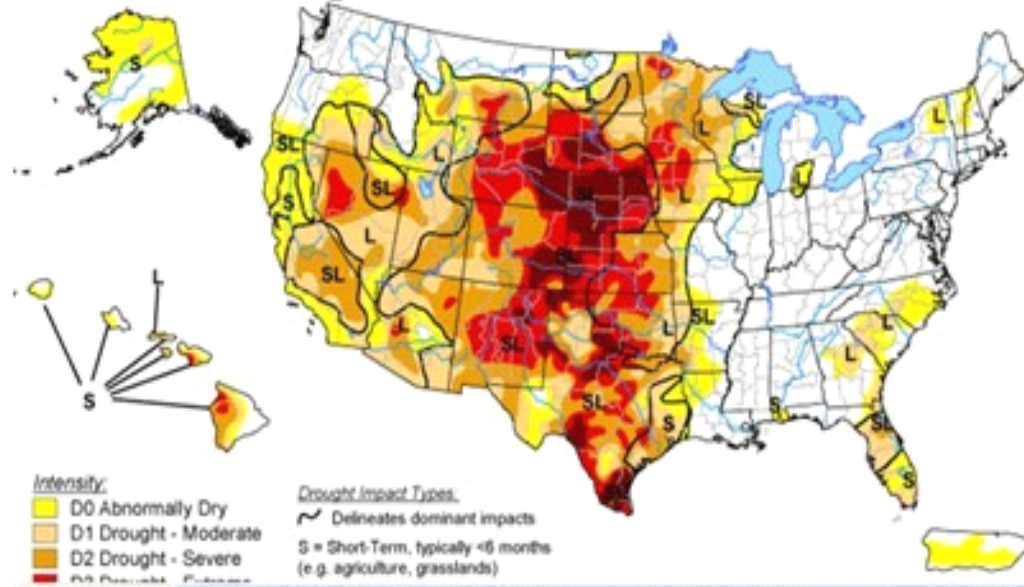
<http://www.climatecentral.org/news/arctic-warming-is-altering-weather-patterns-study-shows>

<http://holtz.org/Library/Images/Maps/Maps%20other/US%20topographical.jpg>

U.S. Drought Monitor

March 26, 2013

Valid 7 a.m. EDT



Less humidity westerly winds by cold la Ninya has been loosing more humidity at climbing mountains

strong draught region

(7) **2011 East Africa drought=strong rain over ocean causes dry air on the land.**

http://en.wikipedia.org/wiki/2011_East_Africa_drought

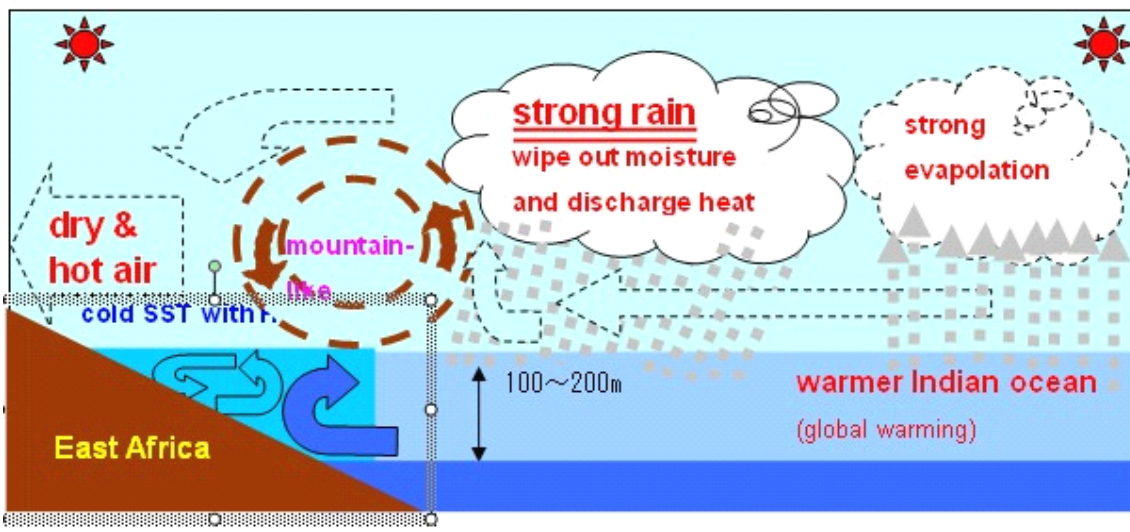
The worst in 60 years drought has caused a severe food crisis across **Somalia, Djibouti, Ethiopia and Kenya**, to where hot easterly current collides with the coast of continent. Also strong drought in **north-east Brazil** might be similar mechanism mentioned (4) and here.

(a) **Some African Drought Linked To Warmer Indian Ocean, NASA Data Show**

<http://www.sciencedaily.com/releases/2008/08/080805124005.htm>

*The movement of moisture onshore was disrupted by increased rainfall over the ocean..... Human-caused warming of the Indian Ocean leads to an **increase of rainfall over the ocean**, which in turn adds energy to the atmosphere. Models showed that indeed, the added energy could create a weather pattern that **reduces the flow of moisture onshore and bring dry air down over the African continent, reducing rainfall.***

* **Bigger rain droplet** tends to gather stray small ones with higher probability in rain fall.



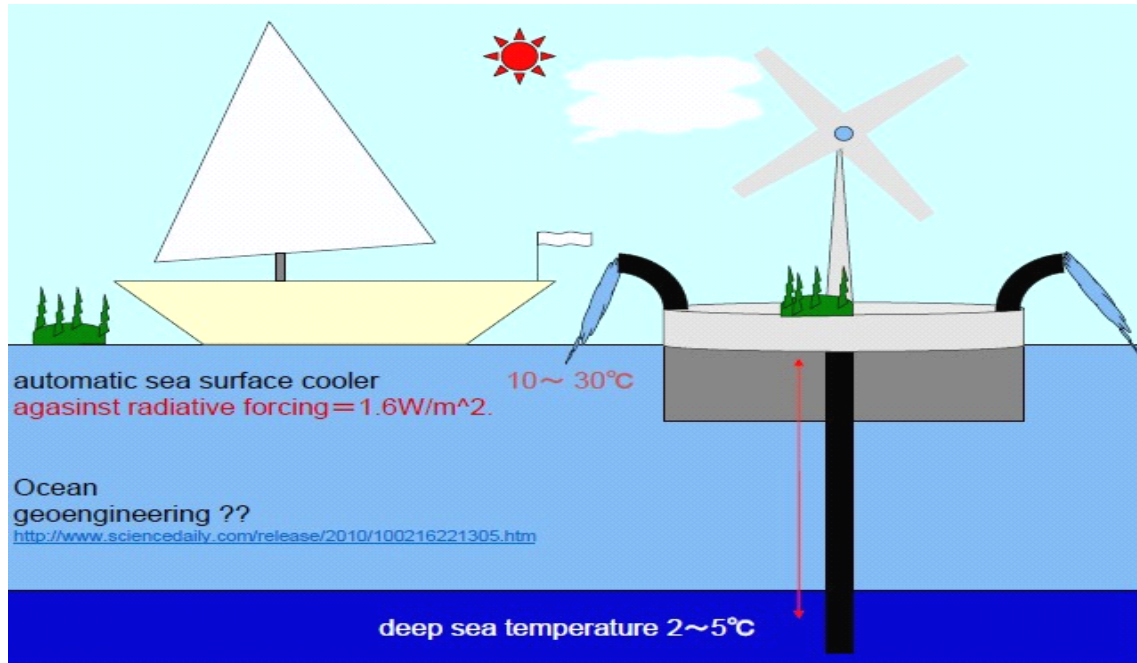
http://weather.unisys.com/archive/sst/sst_loop.gif

(b) Note east Africa coast line temperature is rather lower (less moisture), which is possible to act more nothing rain(?!!). This may be due to **coastal upwelling of cold sea water**.

Drought is always with downward air flow of high pressure (HP) without cloud, which may be due to cold Sea Surface Temperature (SST). "If we might can stop this **upwelling**, also drought could be stopped ??!!". This may be not good. Rather than this, direct cooling on land by massive sea water spreading by wind turbine at coast line might be lower cost and effective.

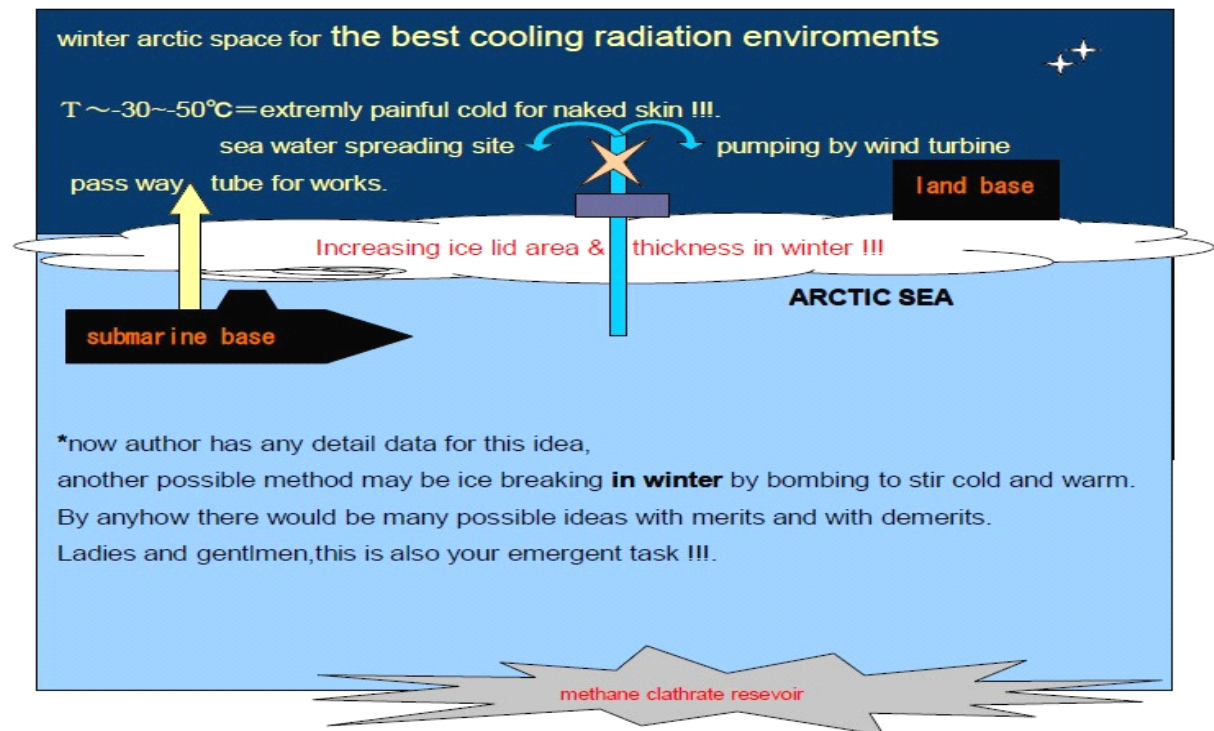
(8) Ocean Cooling Geo-Engineering:

This is instant response on **stopping temperature rise** and decreasing, however the implementation scale and cost would be outrageous. Even though, it must be worth to execute.



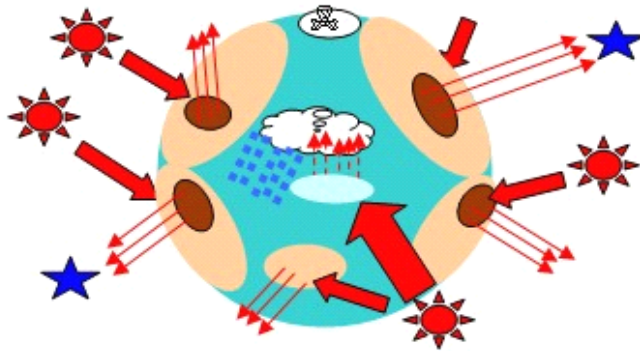
Arctic geoengineering From Wikipedia, the free encyclopedia

(b) Heat input rise by **Arctic ice albedo feedback** become difficult to stop as time goes on. A possible counter measure is massive scale of **man making ice cover** by such sea water spreading over ice surface in cold winter by **huge amount pumping sites**.



(9) **Conclusion: How to change this deadly wrong world ??!.**

For **land**, long time of high temperature with nothing cloud (**draught**) is most effective **heat dissipation** from **earth**. Also for **ocean**, frequent and massive evaporation with strong rain (**flood**) and **storm** is most effective **heat dissipation** mechanism. Those are all of **natural healing process of warming earth**.



Those heat dissipation to space has been being disrupted by Green House Gas of **CO₂** due to massive consuming of oil. This is the outrageous fail toward **mass extinction of global lives** by wrong modern civilization and politico-econo regime. Not before long, almost people would encounter more **hells of climate collapse at everywhere**. Now it is too evident that none could escape from this deadly crisis by **any individual effort**, but by **global massive people's unite** with **unique recognition on deadly fact** and with **decisive will to co-survive**.

-post script-

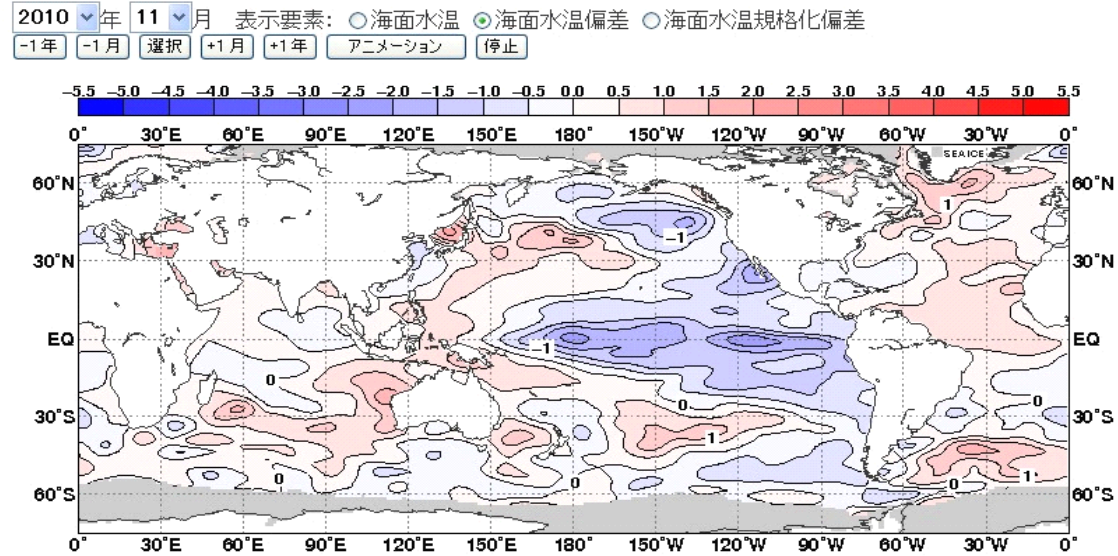
Author has no academic education on **climatology**, but physics. Most of the knowleges were lectured by **world wide websites**. A professor of colledge friend taught him dominant role of **Ocean Dynamics**, which became the basic backbone. Especially this report has many his coarase guessings, but **not authorized explanations** at anywhere, so reader must be carefull.

APPENDIX_1: Why can cold La Nina upwell at west pacific even in global warming ?

(1) Global sea surface temperature anomaly and the cause of La Nina.

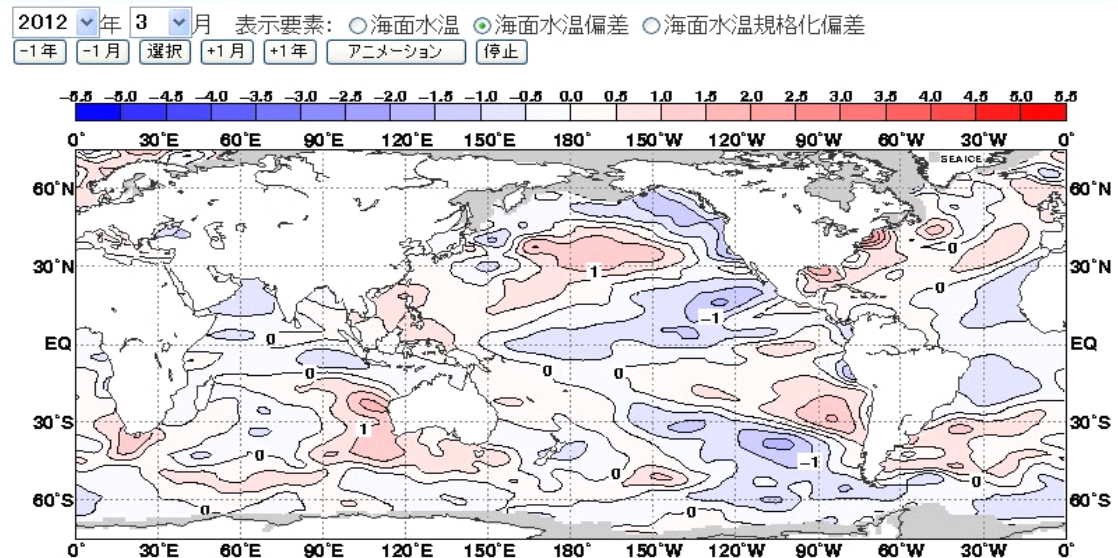
<http://www.data.jma.go.jp/gmd/cpd/db/elnino/clmrep/sst-global.html>

月平均海面水温図



blue zone indicates lower temperature anomaly due to cold sea water upwelling from west coast line with **equator** point West Ecuador. Temperature difference intensity between hot and cold zone may cause anormal climate such as strong rainfall(hot spot) wiping out moisture over ocean and preserving dry wind(cold spot).

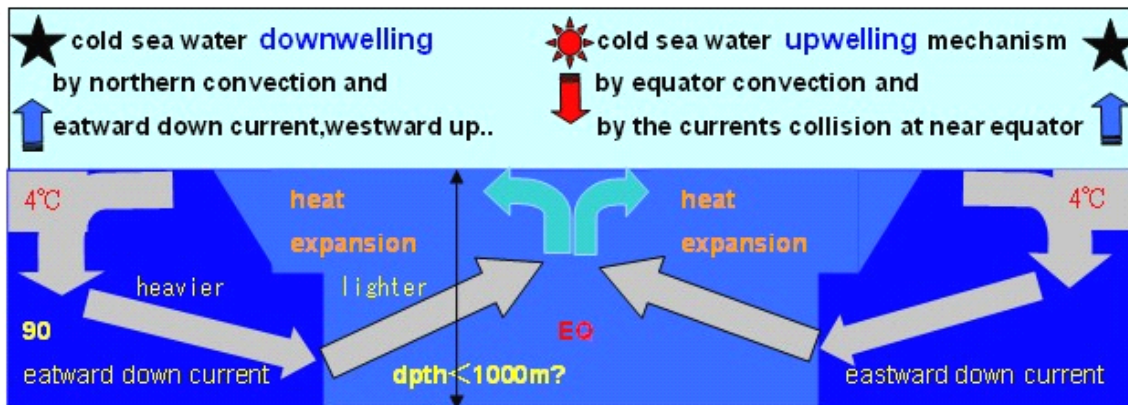
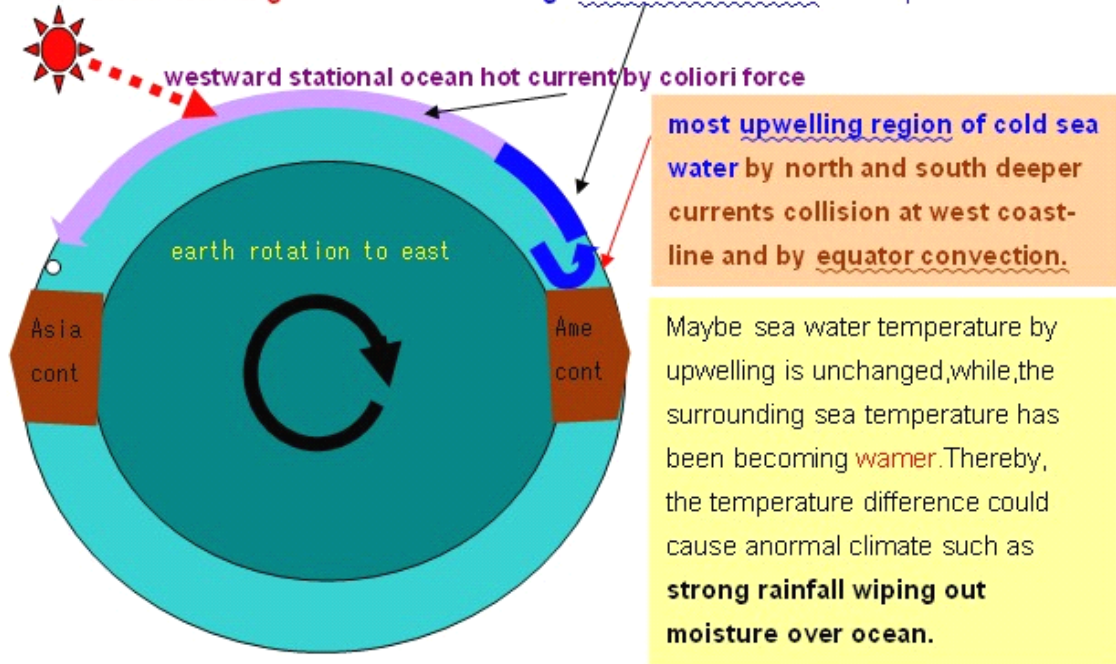
月平均海面水温図



海面水温図は、各月の海面水温を表し、等値線の間隔が1.0°C。
 海面水温偏差図は、各月の海面水温の平年値との差(平年偏差)を表し、等値線の間隔が0.5°C。
 海面水温規格化偏差図は、各月の海面水温の平年偏差を標準偏差の格子点値で規格化したものを表し、等値線の間隔が1.0。
 各図の灰色ハッチは海水域を表す。
 海面水温の平年値や標準偏差の統計期間は1981年-2010年。

(2) Why can cold La Nina upwell at west pacific even in global warming ?

It is Global Warming that has been causing "Cold zone=La Nina" in west pacific ocean



(a) Starting point of trade current at equator (west Ecuador=WE) is cold sea water upwelling point due to pulling out pressure by the current. Another upwelling force is by global convection between hottest equator and colder northern sphere by heat (global warming).

(b) Global scale of view (heat imbalance causes ocean water mass imbalance).

Global warming has been causing surplus heat accumulation into globe (especially oceans). Then heat expansion of ocean at tropical zone causes itself lighter mass than that of northern oceans. The ocean water weight unbalance between equator zone and north one causes pressure force from heavier north to lighter equator due to gravity on sea water mass, which has been causing also more upwelling of cold sea water at near region of WE of where sea pressure is lowest (for upwelling), or at anywhere in similar condition.

(c) **Mechanism of cold sea water(lower layer)upwelling at offshore of coast lines.**

So called **Ekman current** has been told to act upwelling with coast wind.

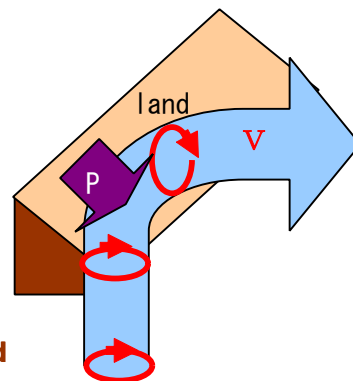
http://en.wikipedia.org/wiki/File:Upwelling_image1.jpg

Another possibility (author's very coarse guessing) is ocean current colliding with coast. Then ocean current over-riding on coast seems to induce upwelling by ocean current momentum turning. A fluid-equation solution indicates the mechanism(Another paper).

$$\rho \langle \mathbf{V} \cdot \text{grad} \mathbf{V} \rangle = -\text{grad} P - 2 \rho \boldsymbol{\Omega} \times \mathbf{V} + \rho \mathbf{g}.$$

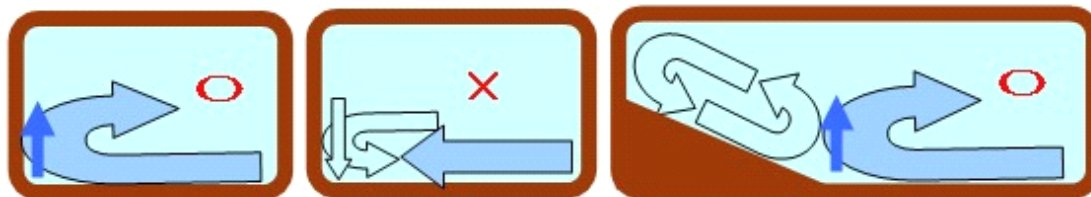
force for herical flow = pressure + {Collori+gravity}forces.

Then ocean heavy lower layer may be likely to go straight to coast, while light upper layer would turn at first. Which is nothig, but upwelling of cold water in lower layer.



It is evident that ocean bending force is due to pressure by **land** the water guide ditch. It may be harder to imagine sinking, but upwelling.

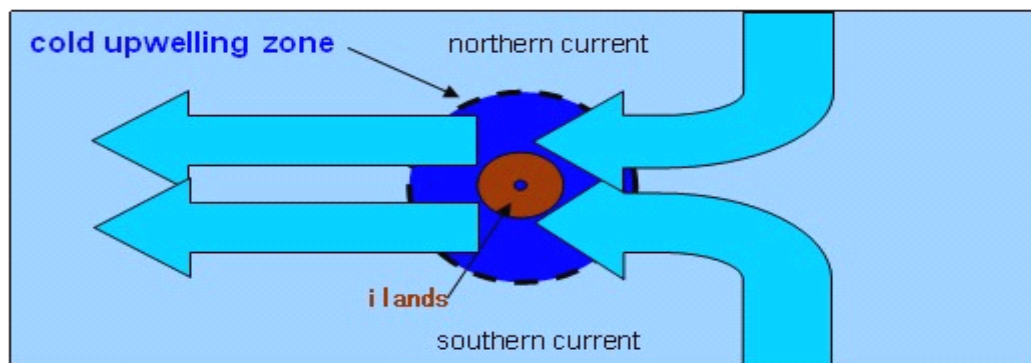
Sink current would collide lower layer flow, which is contradictory.



(d) **Upwelling by ocean current colliding between northern and southern one near at offshore of California peninsula.**

<http://www.data.jma.go.jp/gmd/cpd/db/elnino/clmrep/sst-global.html>

See above animation of **sea temperature anomaly**(海面水温偏差) from 2010-3 to 2012-3. Then you could find lower temperature upwelling near at offshore of California peninsula.



APPENDIX_2:

* **water becomes fuel** : the supreme energy technology,

Show the experiment and verify the truth by global someone, which would determine our future destiny!!!!!! .Oil industry has been hating this !!!! (**now on revised version!!**) .

<http://www.777true.net/Water-Electrolysis-by-Charge-Density-Wave-could-Create-Energy.pdf>

It's not ordinal DC electrolysis, but water molecule splitting into hydrogen gas (and oxygen one) by unipolar pulse (**charge density wave=CDW**). Positive unipolar pulse CDW in water is stream of **hydrogen +ions themselves** which is terminated at cathode by electron capturing with simultaneous hydrogen gas generation. Hereupon, CDW can be radiated from anode (**capacitive antenna**) without large energy, but with small ferroelectric loss one. Generally to tell, a capacitor (without ferroelectric loss energy) never consumes electric power. The secret mechanism of energy creation is due to **quantum gravitational field the creator** of this universe from "nothing")

$O = +E(\text{available energy}) - E(\text{negative gravity field energy (attraction force) in universe})$.

* * Mechanism of ElectroMagnetic Weapon = **HAARP** (hypo-center destruction by **Charge Density Wave** Focusing = CDW) .

<http://www.777true.net/HAARP-the-Earthquake-Weapon-Mechanism.pdf>

<http://endthelie.com/books-and-reading-material/haarp-exposed>

This has been threatening against global democrat movement by secret US troop, This fact must emergently be publicly revealed to the world to debate and settle.

The best cost performance is most established classical method of solar heater & wind turbine for cooking, water boiling, electric power generating.

http://www.google.co.jp/search?q=solar+heater+pictures&hl=ja&rlz=1T4GGHP_jaJP526JP526&tbm=isch&tbo=u&source=univ&sa=X&ei=pUxrUZHICpOjiQfF2IGgCQ&ved=0CC8QsAQ&biw=1280&bih=732

http://www.google.co.jp/search?q=solar+heater+cooker,pictures&hl=ja&rlz=1T4GGHP_jaJP526JP526&tbm=isch&tbo=u&source=univ&sa=X&ei=_UxrUzfVLSnliAfI8IHQCQ&ved=0CC8QsAQ&biw=1280&bih=732

http://www.google.co.jp/search?q=wind+turbine&hl=ja&rlz=1T4GGHP_jaJP526JP526&tbm=isch&tbo=u&source=univ&sa=X&ei=dF1tUfzHKomhiAeyt4HYBQ&ved=0CEcQsAQ&biw=1280&bih=732

**** Earthquake prediction** by observing abnormal phenomena of seismic Electromagnetism

http://www.777true.net/Earthquake-Prediction-by-Phenomena-of-Seismic-Electromagnetism1_2.pdf

Hypocenter with ultra pressure has become **electron-less black hole**. which is to be recovered normal state by hypocenter mechanical destruction (=triggering earthquake).

Then ground surface charge is to be exchanged from **negative to positive**.

***** Emergent Geo-Engineering to stop ice retreat by Arctic Cooling 2015.**

The world destiny entirely depends only on this project establishment by full concentration of global monetary and technical power!!!.

<http://arctic-news.blogspot.jp/p/how-to-cool-arctic.html><http://arctic-news.blogspot.jp/p/global-extinction-within-one-human.html>

****** In 2015, Uruguay will produce 90% of its electricity from renewable energy.**

Uruguay /01/09/2013/ South America

<http://www.greenetvert.fr/2013/01/09/en-2015-luruguay-produira-90-de-son-electricite-grace-au-renouvelable/70728>

Beginning in 2015, Uruguay could become a world leader in the field of renewable energy, with production dominated **45% by hydropower, 30% wind and 15% biomass**

Is 70% Percent Renewable Power Possible? Portugal Just Did it For 3 Months

<http://thinkprogress.org/climate/2013/04/14/1858811/is-70-renewable-power-possible-portugal-just-did-it-for-3-months/>