### 1AC – Adv 1

#### Advantage (1) is Instability

#### Castro’s reforms will inevitably fail – that triggers economic and social collapse

**Morales 8-31-13** (Ermilio, He holds a B.S. in Computer Science from the José Antonio Echevarría Higher Polytechnic Institute in Havana, and a Masters in Marketing from the University of Havana. He also earned an MBA from the Higher School of Marketing in Madrid, Spain. As a high-ranking professional in Cuba, he worked for more than 10 years in marketing research, and authored or co-authored more than 50 different government marketing studies of products and services in the health-care field, tourism, cell phones, retailing, medical equipment, tourism, and investment strategies. He provided technical service for the Cuban government in a variety of binational projects in South Africa, Argentina and Canada, “Cuban reforms: the ultimate utopia?” August 23rd, 2013, <http://thehavanaconsultinggroups.com/index.php?option=com_content&view=article&id=348%3Acuban-reforms-the-ultimate-utopia&catid=47%3Aeconomy&lang=en>)//moxley

The reforms that began under Raúl Castro's government, despite having the greatest reach since those were carried out in the 1990s by his predecessor, have been rather limited, fairly shallow, slow, and somewhat contradictory. But there is also something quite unique that the government is carrying out: they are enshrining the historic leadership of the revolution for eternity. This has never been seen before in recent history, not even in the countries of Eastern Europe or the former Soviet Union, where the emerging political forces were capable of carrying out reforms. In the Cuban case, the historical leaders have ultimately become trapped in their own errors. The reforms are based on obsolete structures that have not been dismantled and serve only to preserve socialism. Therefore, what becomes of the so-called reforms is really a contradiction. In this context, the economic situation of the island is chaotic, and its errors and failures have been piling up for more than a half century. They are a heavy burden that the crippled government must disentangle if the reforms are to work. The current economy performs like a bankrupt company, and it survives thanks only to outside help: the Cuban diaspora and aid from Venezuela**. Nevertheless there are two important factors that are preventing the** total collapse of the system**.** The outlook for reforms is not hopeful. The pattern of Cuban outmigration for the last 10 years reveals that more than a half million Cubans have left the island in order to try their luck in other latitudes. Unofficial routes → Departamento de Aduanas y Protección de Fronteras (CBP) and US Customs and Border Protection In 2012, two years after the reforms started, the island reached its peak outmigration level for the entire decade. A total of 56,207 Cubans emigrated to other countries. This high mark can be interpreted as a signal that the **reforms have not improved the everyday life of Cubans,** or, conversely, **it may mean that** there is considerable anxiety among the population. Currently, 2.1 million Cubans live outside of the island, while 11.2 million remain there. That means that for every five residents on the Island, one is living abroad. While 3% of the world’s population has migrated internationally, for Cuba the figure is 15.3%. However, this high Cuban migration rate is paradoxically derived from one of two legs that sustain the island’s economy: remittances. Thanks to the removal of restrictions on sending money that President Obama implemented in 2009, approximately $2.6 billion in cash and another $2.5 billion in merchandise, reach the island annually. Goods such as clothing, food, medicine, household appliances, and other products constitute these in-kind remittances. Cubans living abroad send them to their family members back home in order to cope with mounting economic needs. Annually, then, this amounts to $5.1 billion. This amount exceeds the combined gross revenue derived from the four leading products in the country: tourism ($2.6 billion), nickel ($1.4 billion), exporting medical products ($500 million) and sugar exports in the amount of $393.1 million. Those four productive export categories generate $4.9 billion. However, that amount excludes the costs of production, administrative overhead, marketing, and distribution. If we factor in those expenses, that leaves a net figure of about $1 billion in earnings, which is five times less than the amount that the Cuban diaspora gives to family on the island. Moreover, money and merchandise reaching the island does not take into account the cost of wiring money or sending merchandise. In the last four years, remittances grew by $8 billion, a remarkable rate of growth. Sending remittances over the next few years should rise. This is because of the growing outmigration of Cubans as well as the increase in charter flights and the number of Cuban-Americans headed to the island. Miami is now the leading city of origin for sending charter flights to Cuba, having surpassed Montreal and Toronto. An ongoing study being carried out by The Havana Consulting Group over the last seven weeks has monitored flights leaving Miami for Cuba. On average, five charter airlines with 150-seat planes make the trip. This translates into an average of about 11.08 flights daily, or 1,662 passengers, of which 17% are non-Cuban-American U.S. residents or citizens. They travel to to seven destinations in Cuba: Havana (66.25%), Camaguey (9.11%), Cienfuegos (8.49%), Holguín (7.25%), Santa Clara (6.21%), Manzanillo (1.45%), and Santiago de Cuba (1.25%). Those passengers report that they carry an average of $3,500 cash with them. If we adjust for the 17% who are non-Cuban American, the daily totals reach $4.82 million dollars entering the island daily. In other words, roughly $1.76 billion reaches Cuba this way annually. Venezuela’s support is dangerously decreasing. Venezuela's estimated $6 billion of annual support constitutes the other leg supporting the Cuban economy. However, the present crisis that this south American economy is experiencing, coupled with the negative effect that the death of Chavez has had in continuing chavismo, means that this level of aid will be difficult to sustain. The numbers speak for themselves and it is difficult for the Cuban government to ignore them. They shape how the Cuban government shapes their reforms and how they might save the Cuban economy in light of a possible melt down in Venezuela. To better understand the warning alarm that the Venezuelan economy is sounding, let us take a look at the following data: When Chávez came to power in 1999, there were 16 ministries. In 2013, there are 36 (up 125%). In 1999, the government employed 900,000 public workers. Today, there are 2.3 million state employees, which is an increase of 155%. In 1999, without foreign currency controls, the exchange rate of Venezuela’s currency (Bolivares no fuertes) was 573.86 to one U.S. dollar. Today, with control rates set by CADIVI (Comisión de Administración de Divisas, or Commission on Hard Currency Administration), that exchange rate is 6300 Bolivares to the dollar. This is a devaluation of 997.83%, without taking in to account the Venezuelan government’s subsidy currency, nor addressing the price of the dollar in the nation’s black market. In 1999, a barrel of oil fetched $10.57. Today, it sells for $109.45 per barrel. This is an increase of 935.48%. In 1999, oil production reached 3.48 million barrels daily. Today, it is 2.36 million barrels daily, which represents a reduction of nearly one third (32.27%). In 1999, oil exports were 3 million barrels daily. In recent years, this figure has fallen by 26.67%, or to 2.2 million barrels daily. In 1999, the state oil company (PDVSA) employed 40,000 employees. Today, it has approximately 120,000, a three-fold rise. In 1999, PDVSA $6 billion of outstanding debt. Today, it approaches $40 billion, which is a 567% increase. In 1999, Venezuela’s debt was $39.911 billion. Today, it approaches $104.481 billion. This translates into an increase of 162%. The Venezuelan government has taken over some 600 fincas (plantations) ($2.5 million hectares). The government has spent more than $14 billion in purchasing armaments. What shape is the labor force in three years after the reforms? The data are not uplifting regarding the number of workers in the private sector. This contrasts with the hope that the government will gradually downsize the public sector and reduce its bureaucracy. If we analyze the labor force situation three years after the reforms began, we observe that there are 6.8 million persons of working age, of which, 5.17 million are working, and leaving 1.09 million people without work. This translates into unemployment rate of 16%. Self-employed workers in 2012 reached a high mark of 429,458 workers, of which 77,302 were retired, and 60,124 persons also worked in the state sector. Accordingly, that means that only 292,031 persons or 4.29% of the entire working force age were employed entirely by the private sector of the island. If we add to that figure the private agricultural workers (about 537,000 persons), both sectors of the labor force amount to 12.18% of the working age population of the island. Table 2. Workforce situation on the island two years after the onset of the reforms. Cuban Work Force 2012 % Those in economically-active age group who work 5,174,500 76.06 All self-employed 429,458 6.31 Retired self-employed 77,302 1.14 Self-employed with public jobs 60,124 0.88 Exclusively self-employed 292,031 4.29 Private agricultural workers 537,000 7.89 Economically-active Age working in public sector 4,745,042 69.75 Unemployed population 1,091,400 16.04 Economically Active Age 6,802,900 Source: Calculated by The Havana Consulting Group, based on information from the Oficina Nacional de Estadísticas e Información (ONEI) **The figures are quite striking and show that the private sector has little weight in the island’s economy.** Why aren't the reforms working? **The main obstacles that the reforms confront are that there are no parallel structural reforms**. All the reforms are based upon the old scheme of centralizing the economy. The reach of the new regulations and laws, therefore, remains shallow. Rather, the reforms are more about resurrecting prohibitions and curtailing rights than they are about substantive structural change. Here are a few examples: the migration reform, freeing up of the selling of houses and cars, the authorization of more than 183 types of self-employed work, and more recently, contracting Cuban athletes to play with foreign teams. With the ideology of the Cuban government still in tact, reforms will only move forward slowly, if at all. **This is** been the situation for more than half a century, which is why it will be very difficult that a change in strategic thinking and philosophy will be able to manage the country’s economy. Absent is any critical thinking about moving the country away from a centralized system to a more open economy without restrictions. For instance, one of the main obstacles is the privatization of public goods that is prohibited by the Constitution and, among other reasons, is one of the brakes that slows down foreign capital to the island, and impedes the development of a strong national private sector. Entrepreneurship and individual initiative are straightjacketed, and rigid laws trap the productive elements of the economy. That is why the national media characterizes the limited successes of self-employed workers as those achieved by the nouveau riche, which strikes distrust and fear if the private sector becomes an engine of social change. Put another way, **there is strong resistance to change despite the fact that the top of the government understands that there really is no other option available.** The dual currency system will also be very difficult to eliminate in light of the low productivity of the labor force and the outlandish state levels of employment whose employees remain very unproductive. Witness, for example, the recent opening of the real-estate market, which has proven to be more speculative than one of sales. Prices ascribed to houses bear no relationship with the purchasing power of the Cuban people. The average price of a house in Cuba at the national level is $31,489 CUCs (convertible currency units, equivalent to $1 USD), while the mean monthly salary is $216 CUCs. In this new market context, there is a lack of financial mechanisms to stimulate the sale of homes and to finance mortgages. State banks play a very small role in providing loans to finance the construction and repair of homes, therefore making the as a place where cash is the only vehicle for acquiring new homes; this is a tedious process that is not attractive to many Cubans. Capital investment remains discriminatory because only foreign companies and investors can do so. Cubans are not allowed to invest, regardless of whether they live on or off the island. The government encourages neither private firms from operating nor individual entrepreneurship. Instead, it insists on pursuing the tried old and unsuccessful path led by cooperatives. Turning arable land into usufruct has been a failure. Even though the state has leased out 70% of public arable lands (80% of all arable land), Cuba still imports 60% of the food it needs at a cost of $2 billion annually. Those who are using these arable lands do not feel as if they own them, and as a result, crops that are produced are more for subsistence than for massive distribution. Lastly, the 183 types of self-employment jobs that the government has approved will not allow for major increase of the private sector. In the meantime, the skilled labor force of the Cuban economy – professionals such as architects, engineers and programmers-- are not included in these reforms.

#### Normalization of relations is inevitable – only an immediate and complete rollback of the embargo can ensure successful reform and prevent Cuban collapse

Timothy Ashby, Senior Research Fellow at the Council on Hemispheric Affairs, 3/29/13

(PRESERVING STABILITY IN CUBA AFTER NORMALIZING RELATIONS WITH THE UNITED STATES – THE IMPORTANCE OF TRADING WITH STATE-OWNED ENTERPRISES, www.coha.org/preserving-stability-in-cuba-timothy-ashby/)

Cuba under Raúl Castro has entered a new period of economic, social, and political transformation. Reforms instituted within the past few years have brought the expansion of private sector entrepreneurial activity, including lifting restrictions on the sales of residential real estate, automobiles, and electronic goods. Additional reforms included, more than a million hectares of idle land has been leased to private farmers, where citizens have been granted permission to stay in hotels previously reserved for tourists, and freedom being granted for most Cubans to travel abroad. Stating that it was time for the “gradual transfer” of “key roles to new generations,” President Raúl Castro announced that he will retire by 2018, and named as his possible successor a man who was not even born at the time of the Cuban Revolutio The twilight of the Castro era presents challenges and opportunities for U.S. policy makers. Normalization of relations is inevitable, regardless of timing, yet external and internal factors may accelerate or [slow] ~~retard~~ the process. The death of Venezuelan President Hugo Chávez is likely to undermine the already dysfunctional Cuban economy, if it leads to reductions in oil imports and other forms of aid. This could bring social chaos, especially among the island’s disaffected youth. Such an outcome would generate adverse consequences for U.S. national and regional security. To maintain Cuba’s social and economic stability while reforms are maturing, the United States must throw itself open to unrestricted bilateral trade with all Cuban enterprises, both private and state-owned. The collapse of Cuba’s tottering economy could seismically impact the United States and neighboring countries. It certainly did during the Mariel Boatlift of 1980, precipitated by a downturn in the Cuban economy which led to tensions on the island. Over 125,000 Cuban refugees landed in the Miami area, including 31,000 criminals and mental patients. Today, the United States defines its national security interests regarding Cuba as follows: • Avoid one or more mass migrations; • Prevent Cuba from becoming another porous border that allows continuous large-scale migration to the hemisphere; • Prevent Cuba from becoming a major source or transshipment point for the illegal drug trade; • Avoid Cuba becoming a state with ungoverned spaces that could provide a platform for terrorists and others wishing to harm the United States. [2] All of these national security threats are directly related to economic and social conditions within Cuba. U.S. policy specifically supports “a market-oriented economic system” [3] toward Cuba, yet regulations prohibit the importation of any goods of Cuban origin, whether from the island’s potentially booming private sector–including 300,000 agricultural producers–or State-Owned Enterprises (“SOEs”). [4] Such a policy is counterproductive to U.S. interests. Regardless of over 400,000 entrepreneurs, including agricultural cultivators, it could be many years, if ever, when Cuba’s private sector would be ready to serve as the engine of economic growth. SOEs employ 72 percent of Cuban workers. [5] A rational commercial rapprochement towards Cuba would therefore require a change in current laws and in the system of regulations prohibiting the importation of Cuban goods and products. Normalized bilateral trade will benefit the Cuban people by helping to provide economic stability and fostering the growth of a middle class–both of which are essential for the foundation of democratic institutions. Two-way trade must include both Cuba’s private sector as well as SOEs.

#### Cuban instability results in Caribbean instability, terrorism, democratic backsliding, and distracts the US from critical hotspots including Africa, the Caucus, and North Korea

Gorrell 5 (Tim, Lieutenant Colonel, “CUBA: THE NEXT UNANTICIPATED ANTICIPATED STRATEGIC CRISIS?” 3/18, http://www.dtic.mil/cgi-bin/GetTRDoc?AD=ADA433074)

Regardless of the succession, under the current U.S. policy, Cuba’s problems of a post Castro transformation only worsen. In addition to Cubans on the island, there will be those in exile who will return claiming authority. And there are remnants of the dissident community within Cuba who will attempt to exercise similar authority. A power vacuum or absence of order will create the conditions for instability and civil war. Whether Raul or another successor from within the current government can hold power is debatable. However, that individual will nonetheless extend the current policies for an indefinite period, which will only compound the Cuban situation. When Cuba finally collapses anarchy is a strong possibility if the U.S. maintains the “wait and see” approach. The U.S. then must deal with an unstable country 90 miles off its coast. In the midst of this chaos, thousands will flee the island. During the Mariel boatlift in 1980 125,000 fled the island.26 Many were criminals; this time the number could be several hundred thousand fleeing to the U.S., creating a refugee crisis.¶ Equally important, by adhering to a negative containment policy, the U.S. may be creating its next series of transnational criminal problems. Cuba is along the axis of the drug-trafficking flow into the U.S. from Columbia. The Castro government as a matter of policy does not support the drug trade. In fact, Cuba’s actions have shown that its stance on drugs is more than hollow rhetoric as indicated by its increasing seizure of drugs – 7.5 tons in 1995, 8.8 tons in 1999, and 13 tons in 2000.27 While there may be individuals within the government and outside who engage in drug trafficking and a percentage of drugs entering the U.S. may pass through Cuba, the Cuban government is not the path of least resistance for the flow of drugs. If there were no Cuban restraints, the flow of drugs to the U.S. could be greatly facilitated by a Cuba base of operation and accelerate considerably.¶ In the midst of an unstable Cuba, the opportunity for radical fundamentalist groups to operate in the region increases. If these groups can export terrorist activity from Cuba to the U.S. or throughout the hemisphere then the war against this extremism gets more complicated. Such activity could increase direct attacks and disrupt the economies, threatening the stability of the fragile democracies that are budding throughout the region. In light of a failed state in the region, the U.S. may be forced to deploy military forces to Cuba, creating the conditions for another insurgency. The ramifications of this action could very well fuel greater anti-American sentiment throughout the Americas. A proactive policy now can mitigate these potential future problems.¶ U.S. domestic political support is also turning against the current negative policy. The Cuban American population in the U.S. totals 1,241,685 or 3.5% of the population.28 Most of these exiles reside in Florida; their influence has been a factor in determining the margin of victory in the past two presidential elections. But this election strategy may be flawed, because recent polls of Cuban Americans reflect a decline for President Bush based on his policy crackdown. There is a clear softening in the Cuban-American community with regard to sanctions. Younger Cuban Americans do not necessarily subscribe to the hard-line approach. These changes signal an opportunity for a new approach to U.S.-Cuban relations. (Table 1)¶ The time has come to look realistically at the Cuban issue. Castro will rule until he dies. The only issue is what happens then? The U.S. can little afford to be distracted by a failed state 90 miles off its coast. The administration, given the present state of world affairs, does not have the luxury or the resources to pursue the traditional American model of crisis management. The President and other government and military leaders have warned that the GWOT will be long and protracted. These warnings were sounded when the administration did not anticipate operations in Iraq consuming so many military, diplomatic and economic resources. There is justifiable concern that Africa and the Caucasus region are potential hot spots for terrorist activity, so these areas should be secure. North Korea will continue to be an unpredictable crisis in waiting. We also cannot ignore China. What if China resorts to aggression to resolve the Taiwan situation? Will the U.S. go to war over Taiwan? Additionally, Iran could conceivably be the next target for U.S. pre-emptive action. These are known and potential situations that could easily require all or many of the elements of national power to resolve. In view of such global issues, can the U.S. afford to sustain the status quo and simply let the Cuban situation play out? The U.S. is at a crossroads: should the policies of the past 40 years remain in effect with vigor? Or should the U.S. pursue a new approach to Cuba in an effort to facilitate a manageable transition to post-Castro Cuba?

#### Caribbean instability causes bioterrorism and LNG explosions

Bryan 1 (Anthony T., Director of the Caribbean Program – North/South Center, and Stephen E. Flynn, Senior Fellow – Council on Foreign Relations, “Terrorism, Porous Borders, and Homeland Security: The Case for U.S.-Caribbean Cooperation”, 10-21, http://www.cfr.org/publication/4844/terrorism\_porous\_borders\_and \_homeland\_ security.html)

Terrorist acts can take place anywhere. The Caribbean is no exception. Already the linkages between drug trafficking and terrorism are clear in countries like Colombia and Peru, and such connections have similar potential in the Caribbean. The security of major industrial complexes in some Caribbean countries is vital. Petroleum refineries and major industrial estates in Trinidad, which host more than 100 companies that produce the majority of the world’s methanol, ammonium sulphate, and 40 percent of U.S. imports of liquefied natural gas (LNG), are vulnerable targets. Unfortunately, as experience has shown in Africa, the Middle East, and Latin America, terrorists are likely to strike at U.S. and European interests in Caribbean countries. Security issues become even more critical when one considers the possible use of Caribbean countries by terrorists **as bases from which to attack the** United States. An airliner hijacked after departure from an airport in the northern Caribbean or the Bahamas can be flying over South Florida in less than an hour. Terrorists can sabotage or seize control of a cruise ship after the vessel leaves a Caribbean port. Moreover, terrorists with false passports and visas issued in the Caribbean may be able to move easily through passport controls in Canada or the United States. (To help counter this possibility, some countries have suspended "economic citizenship" programs to ensure that known terrorists have not been inadvertently granted such citizenship.) Again, Caribbean countries are as vulnerable as anywhere else to the clandestine manufacture and deployment of biological weapons within national borders.

#### LNG tanker explosions cause catastrophic damage – outweighs nuclear war

Lovin 1 (Amory B., Chief Scientist of the [Rocky Mountain Institute](http://en.wikipedia.org/wiki/Rocky_Mountain_Institute), and L. Hunter Lovin, President – National Capitalism and Co-Founder – Rocky Mountain Institute, “Brittle Power: Energy Strategy for National Security”, http://verdilivorno.it/doc\_gnl/198204\_Brittle\_Power\_intro\_GNL\_note.pdf)

About nine percent of such a tankerload of LNG will probably, if spilled onto water, boil to gas in about five minutes. 3 (It does not matter how cold the water is; it will be at least two hundred twenty-eight Fahrenheit degrees hot- ter than the LNG, which it will therefore cause to boil violently.) The result- ing gas, however, will be so cold that it will still be denser than air. It will therefore flow in a cloud or plume along the surface until it reaches an ignition source. Such a plume might extend at least three miles downwind from a large tanker spill within ten to twenty minutes. 4 It might ultimately reach much farther—perhaps six to twelve miles. 5 If not ignited, the gas is asphyxiating. If ignited, it will burn to completion with a turbulent diffusion flame reminiscent of the 1937 Hindenberg disaster but about a hundred times as big. Such a fireball would burn everything within it, and by its radiant heat would cause third-degree burns and start fires a mile or two away. 6 An LNG fireball can blow through a city, creating “a very large number of ignitions and explosions across a wide area. No present or foreseeable equipment can put out a very large [LNG]... fire.” 7 The energy content of a single standard LNG tanker (one hundred twenty-five thousand cubic meters) is equivalent to seven-tenths of a megaton of TNT, or about fifty-five Hiroshima bombs.

#### Bioterrorism results in extinction

Sandberg et al 8 – Research Fellow at the Future of Humanity Institute at Oxford University. PhD in computation neuroscience, Stockholm—AND—Jason G. Matheny—PhD candidate in Health Policy and Management at Johns Hopkins. special consultant to the Center for Biosecurity at the University of Pittsburgh—AND—Milan M. Ćirković—senior research associate at the Astronomical Observatory of Belgrade. Assistant professor of physics at the University of Novi Sad. (Anders, How can we reduce the risk of human extinction?, 9 September 2008, http://www.thebulletin.org/web-edition/features/how-can-we-reduce-the-risk-of-human-extinction)

The risks from anthropogenic hazards appear at present larger than those from natural ones. Although great progress has been made in reducing the number of nuclear weapons in the world, humanity is still threatened by the possibility of a global thermonuclear war and a resulting nuclear winter. We may face even greater risks from emerging technologies. Advances in synthetic biology might make it possible to engineer pathogens capable of extinction-level pandemics. The knowledge, equipment, and materials needed to engineer pathogens are more accessible than those needed to build nuclear weapons. And unlike other weapons, pathogens **are self-replicating, allowing a small arsenal to become exponentially destructive**. Pathogens have been implicated in the extinctions of many wild species. Although most pandemics "fade out" by reducing the density of susceptible populations, pathogens with wide host ranges in multiple species can reach even isolated individuals. The intentional or unintentional release of engineered pathogens with high transmissibility, latency, and lethality might be capable of causing human extinction. While such an event seems unlikely today, the likelihood may increase as biotechnologies continue to improve at a rate rivaling Moore's Law.

#### African conflicts cause great power war

Glick 7 (Caroline – senior Middle East fellow at the Center for Security Policy, Condi’s African holiday, p. http://www.centerforsecuritypolicy.org/home.aspx?sid=56&categoryid=56&subcategoryid=90&newsid=11568)

The Horn of Africa is a dangerous and strategically vital place. Small wars, which rage continuously, can easily escalate into big wars. Local conflicts have regional and global aspects. All of the conflicts in this tinderbox, which controls shipping lanes from the Indian Ocean into the Red Sea, can potentially give rise to regional, and indeed global conflagrations between competing regional actors and global powers. Located in and around the Horn of Africa are the states of Eritrea, Djibouti, Ethiopia, Somalia, Sudan and Kenya. Eritrea, which gained independence from Ethiopia in 1993 after a 30-year civil war, is a major source of regional conflict. Eritrea has a nagging border dispute with Ethiopia which could easily ignite. The two countries fought a bloody border war from 1998-2000 over control of the town of Badme. Although a UN mandated body determined in 2002 that the disputed town belonged to Eritrea, Ethiopia has rejected the finding and so the conflict festers. Eritrea also fights a proxy war against Ethiopia in Somalia and in Ethiopia's rebellious Ogaden region. In Somalia, Eritrea is the primary sponsor of the al-Qaida-linked Islamic Courts Union which took control of Somalia in June, 2006. In November 2006, the ICU government declared jihad against Ethiopia and Kenya. Backed by the US, Ethiopia invaded Somalia last December to restore the recognized Transitional Federal Government to power which the ICU had deposed. Although the Ethiopian army successfully ousted the ICU from power in less than a week, backed by massive military and financial assistance from Eritrea, as well as Egypt and Libya, the ICU has waged a brutal insurgency against the TFG and the Ethiopian military for the past year. The senior ICU leadership, including Sheikh Hassan Dahir Aweys and Sheikh Sharif Ahmed have received safe haven in Eritrea. In September, the exiled ICU leadership held a nine-day conference in the Eritrean capital of Asmara where they formed the Alliance for the Re-Liberation of Somalia headed by Ahmed. Eritrean President-for-life Isaias Afwerki declared his country's support for the insurgents stating, "The Eritrean people's support to the Somali people is consistent and historical, as well as a legal and moral obligation." Although touted in the West as a moderate, Ahmed has openly supported jihad and terrorism against Ethiopia, Kenya and the West. Aweys, for his part, is wanted by the FBI in connection with his role in the bombing of the US embassies in Kenya and Tanzania in 1998. Then there is Eritrea's support for the Ogaden separatists in Ethiopia. The Ogaden rebels are Somali ethnics who live in the region bordering Somalia and Kenya. The rebellion is run by the Ogaden National Liberation Front (ONLF) which uses terror and sabotage as its preferred methods of warfare. It targets not only Ethiopian forces and military installations, but locals who wish to maintain their allegiance to Ethiopia or reach a negotiated resolution of the conflict. In their most sensationalist attack to date, in April ONLF terror forces attacked a Chinese-run oil installation in April killing nine Chinese and 65 Ethiopians. Ethiopia, for its part has fought a brutal counter-insurgency to restore its control over the region. Human rights organizations have accused Ethiopia of massive human rights abuses of civilians in Ogaden. Then there is Sudan. As Eric Reeves wrote in the Boston Globe on Saturday, "The brutal regime in Khartoum, the capital of Sudan, has orchestrated genocidal counter-insurgency war in Darfur for five years, and is now poised for victory in its ghastly assault on the region's African populations." The Islamist government of Omar Hasan Ahmad al-Bashir is refusing to accept non-African states as members of the hybrid UN-African Union peacekeeping mission to Darfur that is due to replace the undermanned and demoralized African Union peacekeeping force whose mandate ends on December 31. Without its UN component of non-African states, the UN Security Council mandated force will be unable to operate effectively. Khartoum's veto led Jean-Marie Guehenno, the UN undersecretary for peacekeeping to warn last month that the entire peacekeeping mission may have to be aborted. And the Darfur region is not the only one at risk. Due to Khartoum's refusal to carry out the terms of its 2005 peace treaty with the Southern Sudanese that ended Khartoum's 20-year war and genocide against the region's Christian and animist population, the unsteady peace may be undone. Given Khartoum's apparent sprint to victory over the international community regarding Darfur, there is little reason to doubt that once victory is secured, it will renew its attacks in the south. The conflicts in the Horn of Africa have regional and global dimensions. Regionally, Egypt has played a central role in sponsoring and fomenting conflicts. Egypt's meddling advances its interest of preventing the African nations from mounting a unified challenge to Egypt's colonial legacy of extraordinary rights to the waters of the Nile River which flows through all countries of the region.

#### Caucasus conflict goes nuclear

Joshua **Kucera, 12/28**/2011. Freelance journalist specializing in Central Asia and the Caucasus. “Predicting Conflict in 2012: Karabakh? Tajikistan? Uzbekistan? Iran?” EurasiaNet, http://www.eurasianet.org/node/64765.

And in Komsomolskaya Pravda, Mikhail Barabanov of the Center for Analysis of Strategies and Technologies and Moscow Defense Brief discusses a recent claim by Chief of the General Staff Nikolai Makarov that the chance of Russia getting involved in a war have recently increased. (Translation by Johnson's Russia List):

Major Western countries and first and foremost the United States might intervene in conflicts on the territory of the former Soviet Union. It will serve as casus belli. The countries that comprise the CIS Collective Security Treaty Organization **belong to the zone of Russia's** strategic interests... **vital interests**. Should the United States or other NATO countries decide to try and get a foothold there, it will create conditions for direct clashes between their armies and the Russian Armed Forces. Things might **escalate into a nuclear exchange**, you know.

### 1AC – Adv 2

#### Advantage (2) is Agriculture

#### Natural constraints means sustainable agriculture is the *only* means for survival - mechanized systems will inevitably fail

**Peters 10** (Kathryn A., , LL.M, University of Arkansas School of Law, Graduate Program in Agricultural and Food Law; J.D. 2010, University of Oregon School of Law, “Creating a Sustainable Urban Agriculture Revolution “, 2010, <http://law.uoregon.edu/org/jell/docs/251/peters.pdf>)//moxley

An adequate food supply is essential for the survival of the human race. Historically, the U.S. food system has been one of abundance. However, degradation of the environment, climate change, dependence on foreign oil and food imports, urban development trends, and increased demand due to population growth and the emerging biofuel industry all threaten our food supply. In response to these threats, local-food and sustainable agriculture movements have recently formed to raise awareness of the need to pursue alternatives to the current system. In 2009, the White House acknowledged the importance of changing the way we grow food by planting an organic garden on its grounds.4 In the wake of the economic crisis of 2008, victory gardens, which were first made popular during the World War II era, have reemerged and created additional awareness of the need to pursue food production alternatives.5 Victory gardens and local sustainable agriculture reduce dependency on the established food production system, but, because the U.S. population is clustered in densely populated metropolitan areas,6 the majority of the population currently lacks access to land on which to grow food. In the face of environmental, economic, and social equity challenges, it is imperative that the government, at federal, state, and local levels, establish policies that promote sustainable urban agriculture to ensure access to an adequate food supply produced with minimal impact on the environment. Environmental threats stemming from climate change and the depletion and degradation of natural resources will increasingly impact the planet’s food production system. The current economic crisis has increased the burden on the government to provide relief in the forms of unemployment compensation8 and supplemental nutrition assistance.9 An inherent consequence of the economic crisis is a widening disparity between the rich and poor and increased social inequity between the socioeconomic classes in America. Establishing a sustainable urban agricultural system would reduce the environmental degradation that is caused by modern agricultural practices, reduce the financial strain on government resources by increasing urban productivity and enabling urbanites to grow a local food supply, and reduce socioeconomic disparities by providing less-advantaged populations in urban areas with access to an adequate supply of fresh, nutritious food. This Note discusses the harms of our current agricultural and urban development practices as well as the benefits of an urban agricultural system, both in terms of sustainability and food security. This Note also examines case studies of existing urban agricultural systems and makes recommendations for government incentives that would promote the development of a sustainable urban agricultural system. Specifically, Part I provides an overview of the history and current state of the U.S. industrial agricultural system. Part II examines the current urban development trend in the United States. Part III describes a sustainable urban agricultural system. Part IV discusses the principles of sustainability and then evaluates the current agricultural system, urban land development trends, and a sustainable urban agricultural system in terms of these principles. Part V presents a case study of Cuba, discussing the consequences of the collapse of the Soviet Union and the subsequent U.S. embargo on Cuba’s food supply, followed by Cuba’s development of a sustainable urban agricultural system. Part VI presents case studies of current urban gardening projects in several U.S. cities. Part VII discusses recommendations for federal, state, and local governments to incentivize urban agriculture and community garden projects throughout the United States

#### But, Cuban agriculture is at a critical turning point – capital shortages are causing a turn away from ecological sustainability – now is key delay, collapses Ag

M. Dawn King, Professor of Environmental Studies at Brown, 3/21/12

(Cuban Sustainability: The Effects of Economic Isolation on Agriculture and Energy, wpsa.research.pdx.edu/meet/2012/kingmdawn.pdf)

Cuba needed an alternative agricultural model when foreign oil imports were cut off significantly at the end of the 1980s, and the partial opening of the Cuban economy, focused on creating more autonomous agricultural cooperatives, in the 1990s helped diversify food crops and set Cuba along a path of increased food security. The Cuban model was initiated out of necessity, not because of any sort of Cuban environmental consciousness, yet better environmental conditions went hand in hand with the new development strategy. Cuba learned the limits of their agricultural model under their socialist economic system and it is in need of further transformation in both the agriculture and energy sectors. A further opening of the economy to joint ventures could help with updating the power grid and providing more sources of renewable energy – potentially expanding Cuba’s potential for a more sustainable means of energy security. Further, Cuba needs foreign investment to update agriculture facilities and take maximum advantage of cogeneration and biofuel potential with sugarcane waste. The strong state control of farming practices, used to successfully jumpstart the alternative model, has hit its limit. The Cuban government must begin loosening its grips on the domestic economy to allow for more competition in the farming sector. Despite the potential to become more sustainable with a purposive and focused opening of the economy, the recent surge in joint venture investment on expanding domestic oil extraction, petrochemical facilities, and oil refinery infrastructure reveals a trend toward decreasing environmental sustainability. Once heralded as the world’s most sustainable country by coupling environmental performance indicators with their human development scores, Cuba is slipping further away from this goal. Perhaps the most distressing part of this current trend is that it took Cuba decades to create a national identity that embraced sustainable environmental practices in both the energy and agricultural sector, and it seemingly took only a couple of years to derail these efforts. Undoubtedly, conservation efforts and sustainable education programs can only satiate citizen’s energy desires to a certain point. In order to further the quality of life in the country, electric production must increase to rural areas with little energy infrastructure and to Havana in order to spur foreign investment and domestic small business growth. Cuba’s trade agreement with Venezuela is bringing in much-needed petroleum for electricity production, but their dependence on a relatively unstable country for crude is trapping them into the same relationship that crippled their economy in 1990 – impairing their original goal of self-sufficiency. Cuba is at a turning point in their path toward environmental sustainability, and the current need for immediate foreign capital and increased energy production seem to be trumping its desire to achieve development sustainably. Cuba still has enough centralized control to leap-frog dirty electric production for cleaner renewable forms of energy and the potential to guide development strategies that emphasize investments in and research on renewable energy. It can utilize its expertise on organic farming strategies to increase sugar production in a much more ecologically friendly manner than their monoculture approach in the 1970s and 80s. Decisions made in the next five years will demonstrate whether Cuba embraces their newly created national identity as a society striving for sustainable development or rejects the goal of sustainable development to increase short-term capital and energy needs.

#### Failure to lift the embargo prevents foreign investment in organoponics – key to US and worldwide adoption

Shkolnick 12 (Jacob, JD Candidate at Drake, SIN EMBARGO: 1 THE CUBAN AGRICULTURAL REVOLUTION AND WHAT IT MEANS FOR THE UNITED STATES”, Fall 2012, 17 Drake J. Agric L 683, lexis)//moxley

While investment in Cuban businesses and sales or purchases of Cuban products must still move through official channels under the joint venture law or other Cuban programs, the time is ripe for organizations in the United States to begin laying groundwork for closer ties with Cuban agricultural entities. Recent regulatory changes implemented by the U.S. government provide a means for individuals and businesses to begin forming the relationships with their Cuban counterparts that will lead to future trade opportunities. As previously mentioned, recent changes in U.S. policy now allow for any individual in the United States, not simply relatives, to donate money to Cuban citizens, though not to exceed $ 500 for any three month consecutive period, with the only restriction being that the recipient is not an official in the Cuban [\*704] government or the Communist Party. n162 Specifically written into these new regulations is the idea that these remittances may be spent "to support the development of private businesses." n163 A five hundred dollar infusion of capital to support a fledging business or farm can be enormously beneficial when the average monthly salary is only 448 pesos, or approximately twenty dollars. n164 Additional capital will enable small Cuban farms to expand operations by hiring additional help or perhaps purchasing additional farm animals. While purchasing a tractor may seem like an obvious choice for a growing farm, Medardo Naranjo Valdes of the Organoponico Vivero Alamar, a UBPC just outside of Havana, indicated that farm animals such as oxen would remain the preferred choice for the foreseeable future on the small and midsized farms that make up the majority of the newer agricultural cooperatives. n165 Not only do farm animals not require gasoline or incur maintenance costs beyond perhaps an occasional veterinarian charge, their waste can be used as fertilizer. Apart from additional labor, funds provided to agricultural cooperatives could be put to use in developing innovative pest control techniques that do not require the use of expensive pesticides or other chemicals. The Vivero Alamar is currently experimenting with a variety of natural pest control techniques such as introducing plants that serve as natural repellents to insects and the introduction of other insects that feed on harmful pests without harming the crops. n166 Investment in agricultural cooperatives done in this manner will likely fail to see much return on the investment for their foreseeable future, until policies in both the United States and Cuba are changed. For a relatively small sum, American investors will get not only the benefit of a close relationship with a Cuban farm that will become a new source of both import and export business in the future, but potentially gain access to innovative agricultural techniques that could be used in the United States immediately. Because the logistical structure needed to transport goods from large rural farms into city markets remains underdeveloped, urban and suburban agriculture makes up a growing portion of the food produced and consumed in Cuba. n169 As in other countries, the population trends in Cuba have continued to shift away from rural areas to more concentrated urban and suburban areas, with about [\*705] three-fourths of Cubans living in cities. n170 With this shift in population has also come a shift in the country's agricultural system. As of 2007, about 15% of all agriculture in Cuba could be classified as urban agriculture. n171 Not only have agricultural practices changed, but eating habits have as well. Without the Soviet Union to provide a ready source of income and the machinery needed to engage in large-scale livestock production, vegetable consumption has increased dramatically. n172 Nearly every urban area has direct access to a wide variety of locally grown, organic produce. n173 Many of the urban farms in Cuba, including the Vivero Alamar, make use of organoponics, a system where crops are produced in raised beds of soil on land that would otherwise be incapable of supporting intensive agricultural production. n174 Many of these raised beds can be constructed in a concentrated area to support a wide variety of produce, with the typical organoponic garden covering anywhere from one half to several hectares in size. n175 The rise of the organoponic production method was a shift away from the earlier centralized production model employed by the state. It has been supported through intensive research and development by a variety of state agencies, such as the National Institute of Agricultural Science, and continued development has been guided through intensive training and educational programs. n176 The organoponic system is not limited in its application to Cuban urban farms, but maintains potential to be applied worldwide, including in the United States. Urban agriculture in Cuba revitalized and put to use previously abandoned and unused land. A similar approach could be applied to the United States as a means to restore blighted areas. Applying Cuban-derived organoponics in U.S. cities could potentially open up an enormous amount of land that was previously unusable. From a business perspective, investing in an organoponic agricultural program in the United States is also a sound decision since the demand for local produce reached $ 4.8 billion in 2008 and is only expected to grow further, potentially reaching $ 7 billion in 2012. n178 [\*706] In an American city beset with high unemployment such as Detroit, Michigan, for example, investing in urban agriculture could potentially generate as many as five thousand new jobs. By utilizing Cuba's system of organoponics, the need to use expensive and complex farm machinery could be significantly reduced. Already companies in the United States, such as Farmscape Gardens in southern California, recognize what Cuba's organoponic system could achieve and have integrated it into their business practices. n180 Rachel Bailin, a partner in the company, indicated that it was Cuba's organic farming practices that helped inspire them to start a company devoted to urban agriculture. n181 They have already used Cuba's organoponic farming methods to produce more than 50,000 pounds of produce since the spring of 2009. n182 The potential for future growth in this industry is huge, as Farmscape Gardens' current levels of production make it the largest urban agriculture company in the state of California. n183 Cuba not only offers attractive prospects for trading in the future, but methods of agriculture pioneered out of necessity have broad prospects if applied to agriculture in the United States. As the demand for locally grown produce continues to increase, a cost-effective and proven agricultural model like Cuba's organoponic system may be just what is needed to allow for urban agriculture to flourish.

#### Only the US solves – Access to the US market is key to the continued viability of Cuban organics

William Kost, Economist at the US Department of Agriculture, 2004

(CUBAN AGRICULTURE: TO BE OR NOT TO BE ORGANIC?, <http://www.ascecuba.org/publications/proceedings/volume14/pdfs/kost.pdf>)

For the U.S. organic market, in addition to a lifting of the U.S. embargo, Cuba would have to be certified by a USDA-accredited certification program that assures U.S. markets that Cuban products labeled organic meet all National Organic Program standards and regulations under the U.S. Organic Foods Production Act of 1990. If the U.S. embargo on Cuba were lifted, Cuban exports, once certified, could play a significant role in the U.S. organic market. In this current U.S. niche market, production costs are high. Opening the U.S. market would enable Cuba to exploit its significant comparative advantage in this area. This market could become a quick foreign exchange earner for Cuba. The largest barrier Cuba faces in expanding into the U.S. organic market will be meeting U.S. requirements for organic certification. Tapping the U.S. market may create sufficient price incentives for Cuban producers to take the necessary steps to meet the organic standards of other importing countries. Cuba could then expand production of organic produce geared to these specialty export markets. With sufficiently high prices for organic produce, urban labor may remain active in an organic urban gardening sector. Most likely, the viability of a vibrant organic produce production and processing sector in Cuba will depend on Cuba’s gaining access to the large, nearby U.S. market. Without such access, organic-oriented production of horticultural products in Cuba will likely remain a necessity-driven way to produce food for domestic consumption in an environment where other production approaches are just not available.

#### Industrial agriculture is the root cause of warming, Amazon deforestation and wetland destruction – only a shift now solves

**Cummins 10** (Ronnie, founder and Director of the Organic Consumers Association (OCA), a non-profit, U.S. based network of 850,000 consumers, dedicated to safeguarding organic standards and promoting a healthy, just, and sustainable system of agriculture and commerce. The OCA’s primary strategy is to work on national and global campaigns promoting health, justice, and sustainability that integrate public education, marketplace pressure, media work, litigation, and grassroots lobbying. Cummins is also editor of OCA’s website www.organicconsumers.org (30,000 visitors a day) and newsletters, Organic Bytes (270,000 subscribers), and Organic View, he has served as director of US and international efforts such as the Pure Food Campaign, and the Global Days of Action Against GMOs. From 1992-98 Cummins served as a campaign director for the Foundation on Economic Trends in Washington, D.C, October 10th, 2010, “Industrial Agriculture and Human Survival: The Road Beyond 10/10/10”, <http://www.commondreams.org/view/2010/10/07-9>)//moxley

Industrial Food and Farming: A Deadly Root of Global Warming Although transportation, industry, and energy producers are obviously major fossil fuel users and greenhouse gas polluters, not enough people understand that the worst U.S. and global greenhouse gas emitter is “Food Incorporated,” transnational industrial food and farming, of which Monsanto and GMOs constitute a major part. Industrial farming, including 173 million acres of GE soybeans, corn, cotton, canola, and sugar beets, accounts for at least 35% of U.S. greenhouse gas emissions (EPA’s ridiculously low estimates range from 7% to 12%, while some climate scientists feel the figure could be as high as 50% or more). Industrial agriculture, biofuels, and non-sustainable cattle grazing - including cutting down the last remaining tropical rainforests in Latin America and Asia for GMO and chemical-intensive animal feed and biofuels **- are also the main driving forces in global deforestation and wetlands destruction, which generate an additional 20% of all climate destabilizing GHGs.** In other words the direct (food, fiber, and biofuels production, food processing, food distribution) and indirect damage (deforestation and destruction of wetlands) of industrial agriculture, GMOs, and the food industry are the major cause of global warming. Unless we take down Monsanto and Food Inc. and make the Great Transition to a relocalized system of organic food and farming, we and our children are doomed to reside in Climate Hell. Overall 78% of climate destabilizing greenhouse gases come from CO2, while the remainder come from methane, nitrous oxide, and black carbon or soot. To stabilize the climate we will need to drastically reduce all of these greenhouse gas emissions, not just CO2, and sequester twice as much carbon matter in the soil (through organic farming and ranching, and forest and wetlands restoration) as we are doing presently. Currently GMO and industrial/factory farms (energy and chemical-intensive) farms emit at least 25% of the carbon dioxide (mostly from tractors, trucks, combines, transportation, cooling, freezing, and heating); 40% of the methane (mostly from massive herds of animals belching and farting, and manure ponds); and 96% of nitrous oxide (mostly from synthetic fertilizer manufacture and use, the millions of tons of animal manure from factory-farmed cattle herds, pig and poultry flocks, and millions of tons of sewage sludge spread on farms). Black carbon or soot comes primarily from older diesel engines, slash and burn agriculture, and wood cook stoves. Per ton, methane is 21 times more damaging, and nitrous oxide 310 times more damaging,as a greenhouse gas than carbon dioxide, when measured over a one hundred year period. **Damage is even worse if you look at the impact on global warming** over the next crucial 20-year period**.** **Many** climate scientists **admit that they have previously drastically underestimated the dangers of the non-CO2 GHGs, including methane, soot, and nitrous oxide, which are responsible for at least 22% of global warming. Almost all U.S. food and farm-derived methane comes from factory farms, huge herds of confined cows, hogs, and poultry operations**, in turn made possible by heavily subsidized ($15 billion per year) GMO soybeans, corn, cottonseed, and canola; as well as rotting food waste thrown into landfills instead of being separated out of the solid waste stream and properly composted. To drastically reduce C02, methane, and nitrous oxide releases we need an immediate consumer boycott, followed by a government ban on factory farms, dairies, and feedlots. To reduce black carbon or soot emissions we will need to upgrade old diesel engines, and provide farmers and rural villagers in the developing world with alternatives to slash and burn agriculture (compost, compost tea, biochar) and non-polluting cook stoves and home heating. We also need to implement mandatory separation and recycling of food wastes and “green garbage” (yard waste, tree branches, etc.) at the municipal level, so that that we can reduce methane emissions from landfills. Mandatory composting will also enable us to produce large quantities of high quality organic compost to replace the billions of pounds of chemical fertilizer and sewage sludge, which are releasing GHGs, destroying soil fertility, polluting our waters, and undermining public health. Nearly all nitrous oxide pollution comes from dumping billions of pounds of synthetic nitrogen fertilizer and sewage sludge on farmland (chemical fertilizers and sludge are banned on organic farms and ranches), mainly to grow GMO crops and animal feed. Since about 80% of U.S. agriculture is devoted to producing non-organic, non-grass fed meat, dairy, and animal products, reducing agriculture GHGs means eliminating the overproduction and over-consumption of GMO crops, factory-farmed meat, and animal products. It also means creating massive consumer demand for organic foods, including pasture-raised, grass-fed animal products. **The fact that climate change is now metastasizing into climate chaos is indisputable**: massive flooding in Pakistan, unprecedented forest fires in Russia and the Amazon, melting of the glaciers that supply water for crops and drinking water of a billion people in Asia and South America, crop failures in regions all over the globe, record heat waves in the U.S. and Europe, methane leaking from the Arctic tundra and coastlines, killer hurricanes in the Gulf of Mexico and Central America, and steadily spreading pestilence, crop failures, and disease. The realization that every time we eat non-organic processed food, we are ingesting unlabeled, hazardous GMO foods and pesticides is indeed alarming. **But the impending threat of industrial food and farming detonating runaway climate change (i.e. moving from our current .8 degree Centigrade average global rise in temperature to 2-6 degrees) is terrifying**. Either we rein in industrial food and farming and GMOs, out-of-control politicians and corporations, and make the transition to an organic and green economy or we will perish.

#### Warming real and is anthropogenic---reject negative evidence

**Prothero 12** [Donald R. Prothero, Professor of Geology at Occidental College and Lecturer in Geobiology at the California Institute of Technology, 3-1-2012, "How We Know Global Warming is Real and Human Caused," Skeptic, 17.2, EBSCO]

How do we know that global warming is real and primarily human caused? There are numerous lines of evidence that converge toward this conclusion. 1. Carbon Dioxide Increase Carbon dioxide in our atmosphere has increased at an unprecedented rate in the past 200 years. Not one data set collected over a long enough span of time shows otherwise. Mann et al. (1999) compiled the past 900 years' worth of temperature data from tree rings, ice cores, corals, and direct measurements in the past few centuries, and the sudden increase of temperature of the past century stands out like a sore thumb. This famous graph is now known as the "hockey stick" because it is long and straight through most of its length, then bends sharply upward at the end like the blade of a hockey stick. Other graphs show that climate was very stable within a narrow range of variation through the past 1000, 2000, or even 10,000 years since the end of the last Ice Age. There were minor warming events during the Climatic Optimum about 7000 years ago, the Medieval Warm Period, and the slight cooling of the Litde Ice Age in the 1700s and 1800s. But the magnitude and rapidity of the warming represented by the last 200 years is simply unmatched in all of human history. More revealing, the timing of this warming coincides with the Industrial Revolution, when humans first began massive deforestation and released carbon dioxide into the atmosphere by burning an unprecedented amount of coal, gas, and oil. 2. Melting Polar Ice Caps The polar icecaps are thinning and breaking up at an alarming rate. In 2000, my former graduate advisor Malcolm McKenna was one of the first humans to fly over the North Pole in summer time and see no ice, just open water. The Arctic ice cap has been frozen solid for at least the past 3 million years (and maybe longer),[ 4] but now the entire ice sheet is breaking up so fast that by 2030 (and possibly sooner) less than half of the Arctic will be ice covered in the summer.[ 5] As one can see from watching the news, this is an ecological disaster for everything that lives up there, from the polar bears to the seals and walruses to the animals they feed upon, to the 4 million people whose world is melting beneath their feet. The Antarctic is thawing even faster. In February-March 2002, the Larsen B ice shelf -- over 3000 square km (the size of Rhode Island) and 220 m (700 feet) thick -- broke up in just a few months, a story -typical of nearly all the ice shelves in Antarctica. The Larsen B shelf had survived all the previous ice ages and interglacial warming episodes over the past 3 million years, and even the warmest periods of the last 10,000 years -- yet it and nearly all the other thick ice sheets on the Arctic, Greenland, and Antarctic are vanishing at a rate never before seen in geologic history. 3. Melting Glaciers Glaciers are all retreating at the highest rates ever documented. Many of those glaciers, along with snow melt, especially in the Himalayas, Andes, Alps, and Sierras, provide most of the freshwater that the populations below the mountains depend upon -- yet this fresh water supply is vanishing. Just think about the percentage of world's population in southern Asia (especially India) that depend on Himalayan snowmelt for their fresh water. The implications are staggering. The permafrost that once remained solidly frozen even in the summer has now thawed, damaging the Inuit villages on the Arctic coast and threatening all our pipelines to the North Slope of Alaska. This is catastrophic not only for life on the permafrost, but as it thaws, the permafrost releases huge amounts of greenhouse gases which are one of the major contributors to global warming. Not only is the ice vanishing, but we have seen record heat waves over and over again, killing thousands of people, as each year joins the list of the hottest years on record. (2010 just topped that list as the hottest year, surpassing the previous record in 2009, and we shall know about 2011 soon enough). Natural animal and plant populations are being devastated all over the globe as their environments change.[ 6] Many animals respond by moving their ranges to formerly cold climates, so now places that once did not have to worry about disease-bearing mosquitoes are infested as the climate warms and allows them to breed further north. 4. Sea Level Rise All that melted ice eventually ends up in the ocean, causing sea levels to rise, as it has many times in the geologic past. At present, the sea level is rising about 3-4 mm per year, more than ten times the rate of 0.1-0.2 mm/year that has occurred over the past 3000 years. Geological data show that the sea level was virtually unchanged over the past 10,000 years since the present interglacial began. A few mm here or there doesn't impress people, until you consider that the rate is accelerating and that most scientists predict sea levels will rise 80-130 cm in just the next century. A sea level rise of 1.3 m (almost 4 feet) would drown many of the world's low-elevation cities, such as Venice and New Orleans, and low-lying countries such as the Netherlands or Bangladesh. A number of tiny island nations such as Vanuatu and the Maldives, which barely poke out above the ocean now, are already vanishing beneath the waves. Eventually their entire population will have to move someplace else.[ 7] Even a small sea level rise might not drown all these areas, but they are much more vulnerable to the large waves of a storm surge (as happened with Hurricane Katrina), which could do much more damage than sea level rise alone. If sea level rose by 6 m (20 feet), most of the world's coastal plains and low-lying areas (such as the Louisiana bayous, Florida, and most of the world's river deltas) would be drowned. Most of the world's population lives in low-elevation coastal cities such as New York, Boston, Philadelphia, Baltimore, Washington, D.C., Miami, and Shanghai. All of those cities would be partially or completely under water with such a sea level rise. If all the glacial ice caps melted completely (as they have several times before during past greenhouse episodes in the geologic past), sea level would rise by 65 m (215 feet)! The entire Mississippi Valley would flood, so you could dock an ocean liner in Cairo, Illinois. Such a sea level rise would drown nearly every coastal region under hundreds of feet of water, and inundate New York City, London and Paris. All that would remain would be the tall landmarks such as the Empire State Building, Big Ben, and the Eiffel Tower. You could tie your boats to these pinnacles, but the rest of these drowned cities would lie deep underwater. Climate Change Critic's Arguments and Scientists' Rebuttals Despite the overwhelming evidence there are many people who remain skeptical. One reason is that they have been fed distortions and misstatements by the global warming denialists who cloud or confuse the issue. Let's examine some of these claims in detail: \* "It's just natural climatic variability." No, it is not. As I detailed in my 2009 book, Greenhouse of the Dinosaurs, geologists and paleoclimatologists know a lot about past greenhouse worlds, and the icehouse planet that has existed for the past 33 million years. We have a good understanding of how and why the Antarctic ice sheet first appeared at that time, and how the Arctic froze over about 3.5 million years ago, beginning the 24 glacial and interglacial episodes of the "Ice Ages" that have occurred since then. We know how variations in the earth's orbit (the Milankovitch cycles) controls the amount of solar radiation the earth receives, triggering the shifts between glacial and interglacial periods. Our current warm interglacial has already lasted 10,000 years, the duration of most previous interglacials, so if it were not for global warming, we would be headed into the next glacial in the next 1000 years or so. Instead, our pumping greenhouse gases into our atmosphere after they were long trapped in the earth's crust has pushed the planet into a "super-interglacial," already warmer than any previous warming period. We can see the "big picture" of climate variability most clearly in ice cores from the EPICA (European Project for Ice Coring in Antarctica), which show the details of the last 650,000 years of glacial-inters glacial cycles (Fig. 2). At no time during any previous interglacial did the carbon dioxide levels exceed 300 ppm, even at their very warmest. Our atmospheric carbon dioxide levels are already close to 400 ppm today. The atmosphere is headed to 600 ppm within a few decades, even if we stopped releasing greenhouse gases immediately. This is decidedly not within the normal range of "climatic variability," but clearly unprecedented in human history. Anyone who says this is "normal variability" has never seen the huge amount of paleoclimatic data that show otherwise. \* "It's just another warming episode, like the Medieval Warm Period, or the Holocene Climatic Optimum or the end of the Little Ice Age." Untrue. There were numerous small fluctuations of warming and cooling over the last 10,000 years of the Holocene. But in the case of the Medieval Warm Period (about 950-1250 A.D.), the temperatures increased only 1°C, much less than we have seen in the current episode of global warming (Fig. 1). This episode was also only a local warming in the North Atlantic and northern Europe. Global temperatures over this interval did not warm at all, and actually cooled by more than 1°C. Likewise, the warmest period of the last 10,000 years was the Holocene Climatic Optimum ( 5,000-9,000 B.C.E.) when warmer and wetter conditions in Eurasia contributed to the rise of the first great civilizations in Egypt, Mesopotamia, the Indus Valley, and China. This was largely a Northern Hemisphere-Eurasian phenomenon, with 2-3°C warming in the Arctic and northern Europe. But there was almost no warming in the tropics, and cooling or no change in the Southern Hemisphere.[ 8] From a Eurocentric viewpoint, these warming events seemed important, but on a global scale the effect was negligible. In addition, neither of these warming episodes is related to increasing greenhouse gases. The Holocene Climatic Optimum, in fact, is predicted by the Milankovitch cycles, since at that time the axial tilt of the earth was 24°, its steepest value, meaning the Northern Hemisphere got more solar radiation than normal -- but the Southern Hemisphere less, so the two balanced. By contrast, not only is the warming observed in the last 200 years much greater than during these previous episodes, but it is also global and bipolar, so it is not a purely local effect. The warming that ended the Little Ice Age (from the mid-1700s to the late 1800s) was due to increased solar radiation prior to 1940. Since 1940, however, the amount of solar radiation has been dropping, so the only candidate remaining for the post-1940 warming is carbon dioxide.[ 9] "It's just the sun, or cosmic rays, or volcanic activity or methane." Nope, sorry. The amount of heat that the sun provides has been decreasing since 1940,[ 10] just the opposite of the critics' claims (Fig. 3). There is no evidence of an increase in cosmic ray particles during the past century.[ 11] Nor is there any clear evidence that large-scale volcanic events (such as the 1815 eruption of Tambora in Indonesia, which changed global climate for about a year) have any long-term effects that would explain 200 years of warming and carbon dioxide increase. Volcanoes erupt only 0.3 billion tonnes of carbon dioxide each year, but humans emit over 29 billion tonnes a year,[ 12] roughly 100 times as much. Clearly, we have a bigger effect. Methane is a more powerful greenhouse gas, but there is 200 times more carbon dioxide than methane, so carbon dioxide is still the most important agent.[ 13] Every other alternative has been looked at and can be ruled out. The only clear-cut relationship is between human-caused carbon dioxide increase and global warming. \* "The climate records since 1995 (or 1998) show cooling." That's simply untrue. The only way to support this argument is to cherry-pick the data.[ 14] Over the short term, there was a slight cooling trend from 1998-2000, but only because 1998 was a record-breaking El Nino year, so the next few years look cooler by comparison (Fig. 4). But since 2002, the overall long-term trend of warming is unequivocal. All of the 16 hottest years ever recorded on a global scale have occurred in the last 20 years. They are (in order of hottest first): 2010, 2009, 1998, 2005, 2003, 2002, 2004, 2006, 2007, 2001, 1997, 2008, 1995, 1999, 1990, and 2000.[ 15] In other words, every year since 2000 has been on the Top Ten hottest years list. The rest of the top 16 include 1995, 1997, 1998, 1999, and 2000. Only 1996 failed to make the list (because of the short-term cooling mentioned already). \* "We had record snows in the winter of 2009-2010, and also in 2010-2011." So what? This is nothing more than the difference between weather (short-term seasonal changes) and climate (the long-term average of weather over decades and centuries and longer). Our local weather tells us nothing about another continent, or the global average; it is only a local effect, determined by short-term atmospheric and oceano-graphic conditions.[ 16] In fact, warmer global temperatures mean more moisture in the atmosphere, which increases the intensity of normal winter snowstorms. In this particular case, the climate change critics forget that the early winter of November-December 2009 was actually very mild and warm, and then only later in January and February did it get cold and snow heavily. That warm spell in early winter helped bring more moisture into the system, so that when cold weather occurred, the snows were worse. In addition, the snows were unusually heavy only in North America; the rest of the world had different weather, and the global climate was warmer than average. Also, the summer of 2010 was the hottest on record, breaking the previous record set in 2009. \* "Carbon dioxide is good for plants, so the world will be better off." Who do they think they're kidding? The Competitive Enterprise Institute (funded by oil and coal companies and conservative foundations[ 17]) has run a series of shockingly stupid ads concluding with the tag line "Carbon dioxide: they call it pollution, we call it life." Anyone who knows the basic science of earth's atmosphere can spot the gross inaccuracies in this ad.[ 18] True, plants take in carbon dioxide that animals exhale, as they have for millions of years. But the whole point of the global warming evidence (as shown from ice cores) is that the delicate natural balance of carbon dioxide has been thrown off balance by our production of too much of it, way in excess of what plants or the oceans can handle. As a consequence, the oceans are warming[ 19, 20] and absorbing excess carbon dioxide making them more acidic. Already we are seeing a shocking decline in coral reefs ("bleaching") and extinctions in many marine ecosystems that can't handle too much of a good thing. Meanwhile, humans are busy cutting down huge areas of temperate and tropical forests, which not only means there are fewer plants to absorb the gas, but the slash and burn practices are releasing more carbon dioxide than plants can keep up with. There is much debate as to whether increased carbon dioxide might help agriculture in some parts of the world, but that has to be measured against the fact that other traditional "breadbasket" regions (such as the American Great Plains) are expected to get too hot to be as productive as they are today. The latest research[ 21] actually shows that increased carbon dioxide inhibits the absorption of nitrogen into plants, so plants (at least those that we depend upon today) are not going to flourish in a greenhouse world. It is difficult to know if those who tell the public otherwise are ignorant of basic atmospheric science and global geochemistry, or if they are being cynically disingenuous. \* "I agree that climate is changing, but I'm skeptical that humans are the main cause, so we shouldn't do anything." This is just fence sitting. A lot of reasonable skeptics deplore the right wing's rejection of the reality of climate change, but still want to be skeptical about the cause. If they want proof, they can examine the huge array of data that points directly to human caused global warming.[ 22] We can directly measure the amount of carbon dioxide humans are producing, and it tracks exactly with the amount of increase in atmospheric carbon dioxide. Through carbon isotope analysis, we can show that this carbon dioxide in the atmosphere is coming directly from our burning of fossil fuels, not from natural sources. We can also measure the drop in oxygen as it combines with the increased carbon levels to produce carbon dioxide. We have satellites in space that are measuring the heat released from the planet and can actually see the atmosphere getting warmer. The most crucial evidence emerged only within the past few years: climate models of the greenhouse effect predict that there should be cooling in the stratosphere (the upper layer of the atmosphere above 10 km or 6 miles in elevation), but warming in the troposphere (the bottom layer below 10 km or 6 miles), and that's exactly what our space probes have measured. Finally, we can rule out any other suspects (see above): solar heat is decreasing since 1940, not increasing, and there are no measurable increases in cosmic rays, methane, volcanic gases, or any other potential cause. Face it -- it's our problem. Why Do People Continue to Question the Reality of Climate Change? Thanks to all the noise and confusion over climate change, the general public has only a vague idea of what the debate is really about, and only about half of Americans think global warming is real or that we are to blame.[ 23] As in the evolution/creationism debate, the scientific community is virtually unanimous on what the data demonstrate about anthropogenic global warming. This has been true for over a decade. When science historian Naomi Oreskes[ 24] surveyed all peer-reviewed papers on climate change published between 1993 and 2003 in the world's leading scientific journal, Science, she found that there were 980 supporting the idea of human-induced global warming and none opposing it. In 2009, Doran and Kendall Zimmerman[ 25] surveyed all the climate scientists who were familiar with the data. They found that 95-99% agreed that global warming is real and human caused. In 2010, the prestigious Proceedings of the National Academy of Sciences published a study that showed that 98% of the scientists who actually do research in climate change are in agreement over anthropogenic global warming.[ 26] Every major scientific organization in the world has endorsed the conclusion of anthropogenic climate change as well. This is a rare degree of agreement within such an independent and cantankerous group as the world's top scientists. This is the same degree of scientific consensus that scientists have achieved over most major ideas, including gravity, evolution, and relativity. These and only a few other topics in science can claim this degree of agreement among nearly all the world's leading scientists, especially among everyone who is close to the scientific data and knows the problem intimately. If it were not such a controversial topic politically, there would be almost no interest in debating it since the evidence is so clear-cut. If the climate science community speaks with one voice (as in the 2007 IPCC report, and every report since then), why is there still any debate at all? The answer has been revealed by a number of investigations by diligent reporters who got past the PR machinery denying global warming, and uncovered the money trail. Originally, there were no real "dissenters" to the idea of global warming by scientists who are actually involved with climate research. Instead, the forces with vested interests in denying global climate change (the energy companies, and the "free-market" advocates) followed the strategy of tobacco companies: create a smokescreen of confusion and prevent the American public from recognizing scientific consensus. As the famous memo[ 27] from the tobacco lobbyists said "Doubt is our product." The denialists generated an anti-science movement entirely out of thin air and PR. The evidence for this PR conspiracy has been well documented in numerous sources. For example, Oreskes and Conway revealed from memos leaked to the press that in April 1998 the right-wing Marshall Institute, SEPP (Fred Seitz's lobby that aids tobacco companies and polluters), and ExxonMobil, met in secret at the American Petroleum Institute's headquarters in Washington, D.C. There they planned a $20 million campaign to get "respected scientists" to cast doubt on climate change, get major PR efforts going, and lobby Congress that global warming isn't real and is not a threat. The right-wing institutes and the energy lobby beat the bushes to find scientists -- any scientists -- who might disagree with the scientific consensus. As investigative journalists and scientists have documented over and over again,[ 28] the denialist conspiracy essentially paid for the testimony of anyone who could be useful to them. The day that the 2007 IPCC report was released (Feb. 2, 2007), the British newspaper The Guardian reported that the conservative American Enterprise Institute (funded largely by oil companies and conservative think tanks) had offered $10,000 plus travel expenses to scientists who would write negatively about the IPCC report.[ 29] In February 2012, leaks of documents from the denialist Heartland Institute revealed that they were trying to influence science education, suppress the work of scientists, and had paid off many prominent climate deniers, such as Anthony Watts, all in an effort to circumvent the scientific consensus by doing an "end run" of PR and political pressure. Other leaks have shown 9 out of 10 major climate deniers are paid by ExxonMobil.[ 30] We are accustomed to hired-gun "experts" paid by lawyers to muddy up the evidence in the case they are fighting, but this is extraordinary -- buying scientists outright to act as shills for organizations trying to deny scientific reality. With this kind of money, however, you can always find a fringe scientist or crank or someone with no relevant credentials who will do what they're paid to do. Fishing around to find anyone with some science background who will agree with you and dispute a scientific consensus is a tactic employed by the creationists to sound "scientific". The NCSE created a satirical "Project Steve,"[ 31] which demonstrated that there were more scientists who accept evolution named "Steve" than the total number of "scientists who dispute evolution". It may generate lots of PR and a smokescreen to confuse the public, but it doesn't change the fact that scientists who actually do research in climate change are unanimous in their insistence that anthropogenic global warming is a real threat. Most scientists I know and respect work very hard for little pay, yet they still cannot be paid to endorse some scientific idea they know to be false. The climate deniers have a lot of other things in common with creationists and other anti-science movements. They too like to quote someone out of context ("quote mining"), finding a short phrase in the work of legitimate scientists that seems to support their position. But when you read the full quote in context, it is obvious that they have used the quote inappropriately. The original author meant something that does not support their goals. The "Climategate scandal" is a classic case of this. It started with a few stolen emails from the Climate Research Unit of the University of East Anglia. If you read the complete text of the actual emails[ 32] and comprehend the scientific shorthand of climate scientists who are talking casually to each other, it is clear that there was no great "conspiracy" or that they were faking data. All six subsequent investigations have cleared Philip Jones and the other scientists of the University of East Anglia of any wrongdoing or conspiracy.[ 33] Even if there had been some conspiracy on the part of these few scientists, there is no reason to believe that the entire climate science community is secretly working together to generate false information and mislead the public. If there's one thing that is clear about science, it's about competition and criticism, not conspiracy and collusion. Most labs are competing with each other, not conspiring together. If one lab publishes a result that is not clearly defensible, other labs will quickly correct it. As James Lawrence Powell wrote: Scientists…show no evidence of being more interested in politics or ideology than the average American. Does it make sense to believe that tens of thousands of scientists would be so deeply and secretly committed to bringing down capitalism and the American way of life that they would spend years beyond their undergraduate degrees working to receive master's and Ph.D. degrees, then go to work in a government laboratory or university, plying the deep oceans, forbidding deserts, icy poles, and torrid jungles, all for far less money than they could have made in industry, all the while biding their time like a Russian sleeper agent in an old spy novel? Scientists tend to be independent and resist authority. That is why you are apt to find them in the laboratory or in the field, as far as possible from the prying eyes of a supervisor. Anyone who believes he could organize thousands of scientists into a conspiracy has never attended a single faculty meeting.[ 34] There are many more traits that the climate deniers share with the creationists and Holocaust deniers and others who distort the truth. They pick on small disagreements between different labs as if scientists can't get their story straight, when in reality there is always a fair amount of give and take between competing labs as they try to get the answer right before the other lab can do so. The key point here is that when all these competing labs around the world have reached a consensus and get the same answer, there is no longer any reason to doubt their common conclusion. The anti-scientists of climate denialism will also point to small errors by individuals in an effort to argue that the entire enterprise cannot be trusted. It is true that scientists are human, and do make mistakes, but the great power of the scientific method is that peer review weeds these out, so that when scientists speak with consensus, there is no doubt that their data are checked carefully Finally, a powerful line of evidence that this is a purely political controversy, rather than a scientific debate, is that the membership lists of the creationists and the climate deniers are highly overlapping. Both anti-scientific dogmas are fed to their overlapping audiences through right-wing media such as Fox News, Glenn Beck, and Rush Limbaugh. Just take a look at the "intelligent-design" cre-ationism website for the Discovery Institute. Most of the daily news items lately have nothing to do with creationism at all, but are focused on climate denial and other right-wing causes.[ 35] If the data about global climate change are indeed valid and robust, any qualified scientist should be able to look at them and see if the prevailing scientific interpretation holds up. Indeed, such a test took place. Starting in 2010, a group led by U.C. Berkeley physicist Richard Muller re-examined all the temperature data from the NOAA, East Anglia Hadley Climate Research Unit, and the Goddard Institute of Space Science sources. Even though Muller started out as a skeptic of the temperature data, and was funded by the Koch brothers and other oil company sources, he carefully checked and re-checked the research himself. When the GOP leaders called him to testify before the House Science and Technology Committee in spring 2011, they were expecting him to discredit the temperature data. Instead, Muller shocked his GOP sponsors by demonstrating his scientific integrity and telling the truth: the temperature increase is real, and the scientists who have demonstrated that the climate is changing are right (Fig. 5). In the fall of 2011, his study was published, and the conclusions were clear: global warming is real, even to a right-wing skeptical scientist. Unlike the hired-gun scientists who play political games, Muller did what a true scientist should do: if the data go against your biases and preconceptions, then do the right thing and admit it -- even if you've been paid by sponsors who want to discredit global warming. Muller is a shining example of a scientist whose integrity and honesty came first, and did not sell out to the highest bidder.[ 36] \* Science and Anti-Science The conclusion is clear: there's science, and then there's the anti-science of global warming denial. As we have seen, there is a nearly unanimous consensus among climate scientists that anthropogenic global warming is real and that we must do something about it. Yet the smokescreen, bluster and lies of the deniers has created enough doubt so that only half of the American public is convinced the problem requires action. Ironically, the U.S. is almost alone in questioning its scientific reality. International polls taken of 33,000 people in 33 nations in 2006 and 2007 show that 90% of their citizens regard climate change as a serious problem[ 37] and 80% realize that humans are the cause of it.[ 38] Just as in the case of creationism, the U.S. is out of step with much of the rest of the world in accepting scientific reality. It is not just the liberals and environmentalists who are taking climate change seriously. Historically conservative institutions (big corporations such as General Electric and many others such as insurance companies and the military) are already planning on how to deal with global warming. Many of my friends high in the oil companies tell me of the efforts by those companies to get into other forms of energy, because they know that cheap oil will be running out soon and that the effects of burning oil will make their business less popular. BP officially stands for "British Petroleum," but in one of their ad campaigns about 5 years ago, it stood for "Beyond Petroleum."[ 39] Although they still spend relatively little of their total budgets on alternative forms of energy, the oil companies still see the handwriting on the wall about the eventual exhaustion of oil -- and they are acting like any company that wants to survive by getting into a new business when the old one is dying. The Pentagon (normally not a left-wing institution) is also making contingency plans for how to fight wars in an era of global climate change, and analyzing what kinds of strategic threats might occur when climate change alters the kinds of enemies we might be fighting, and water becomes a scarce commodity. The New York Times reported[ 40] that in December 2008, the National Defense University outlined plans for military strategy in a greenhouse world. To the Pentagon, the big issue is global chaos and the potential of even nuclear conflict. The world must "prepare for the inevitable effects of abrupt climate change -- which will likely come [the only question is when] regardless of human activity." Insurance companies have no political axe to grind. If anything, they tend to be on the conservative side. They are simply in the business of assessing risk in a realistic fashion so they can accurately gauge their future insurance policies and what to charge for them. Yet they are all investing heavily in research on the disasters and risks posed by climatic change. In 2005, a study commissioned by the re-insurer Swiss Re said, "Climate change will significantly affect the health of humans and ecosystems and these impacts will have economic consequences."[ 41] Some people may still try to deny scientific reality, but big businesses like oil and insurance and conservative institutions like the military cannot afford to be blinded or deluded by ideology. They must plan for the real world that we will be seeing in the next few decades. They do not want to be caught unprepared and harmed by global climatic change when it threatens their survival. Neither can we as a society.

#### Extinction

Brandenberg 99 (John & Monica Paxson, Visiting Prof. Researcher @ Florida Space Institute, Physicist Ph.D., Science Writer, Dead Mars Dying Earth, Pg 232-233)

The ozone hole expands, driven by a monstrous synergy with global warming that puts more catalytic ice crystals into the stratosphere, but this affects the far north and south and not the major nations’ heartlands. The seas rise, the tropics roast but the media networks no longer cover it. The Amazon rainforest becomes the Amazon desert. Oxygen levels fall, but profits rise for those who can provide it in bottles. An equatorial high-pressure zone forms, forcing drought in central Africa and Brazil, the Nile dries up and the monsoons fail. Then inevitably, at some unlucky point in time, a major unexpected event occurs—a major volcanic eruption, a sudden and dramatic shift in ocean circulation or a large asteroid impact (those who think freakish accidents do not occur have paid little attention to life or Mars), or a **nuclear war** that starts between Pakistan and India and escalates to involve China and Russia . . . Suddenly the gradual climb in global temperatures goes on a mad excursion as the oceans warm and release large amounts of dissolved carbon dioxide from their lower depths into the atmosphere. Oxygen levels go down precipitously as oxygen replaces lost oceanic carbon dioxide. Asthma cases double and then double again. Now a third of the world fears breathing. As the oceans dump carbon dioxide, the greenhouse effect increases, which further warms the oceans, causing them to dump even more carbon. Because of the heat, plants die and burn in enormous fires, which release more carbon dioxide, and the oceans evaporate, adding more water vapor to the greenhouse. Soon, we are in what is termed a runaway greenhouse effect, as happened to Venus eons ago. The last two surviving scientists inevitably argue, one telling the other, “See! I told you the missing sink was in the ocean!” Earth, as we know it, dies. After this Venusian excursion in temperatures, the oxygen disappears into the soil, the oceans evaporate and are lost and the dead Earth loses its ozone layer completely. Earth is too far from the Sun for it to be the second Venus for long. Its atmosphere is slowly lost—as is its water—because of ultraviolet bombardment breaking up all the molecules apart from carbon dioxide. As the atmosphere becomes thin, the Earth becomes colder. For a short while temperatures are nearly normal, but the ultraviolet **sears any life** that tries to make a comeback. The carbon dioxide thins out to form a thin veneer with a few wispy clouds and dust devils. Earth becomes the second Mars—red, **desolate, with** perhaps a **few** hardy microbes surviving.

#### Not too late – every reduction key

Nuccitelli 12

[Dana, is an environmental scientist at a private environmental consulting firm in the Sacramento, California area. He has a Bachelor's Degree in astrophysics from the University of California at Berkeley, and a Master's Degree in physics from the University of California at Davis. He has been researching climate science, economics, and solutions as a hobby since 2006, and has contributed to Skeptical Science since September, 2010, <http://www.skepticalscience.com/realistically-what-might-future-climate-look-like.html>, HM]

We're not yet committed to surpassing 2°C global warming, but as Watson noted, we are quickly running out of time to realistically give ourselves a chance to stay below that 'danger limit'. However, 2°C is not a do-or-die threshold. Every bit of CO2 emissions we can reduce means that much avoided future warming, which means that much avoided climate change impacts. As Lonnie Thompson noted, the more global warming we manage to mitigate, the less adaption and suffering we will be forced to cope with in the future. Realistically, based on the current political climate (which we will explore in another post next week), limiting global warming to 2°C is probably the best we can do. However, there is a big difference between 2°C and 3°C, between 3°C and 4°C, and anything greater than 4°C can probably accurately be described as catastrophic, since various tipping points are expected to be triggered at this level. Right now, we are on track for the catastrophic consequences (widespread coral mortality, mass extinctions, hundreds of millions of people adversely impacted by droughts, floods, heat waves, etc.). But we're not stuck on that track just yet, and we need to move ourselves as far off of it as possible by reducing our greenhouse gas emissions as soon and as much as possible. There are of course many people who believe that the planet will not warm as much, or that the impacts of the associated climate change will be as bad as the body of scientific evidence suggests. That is certainly a possiblity, and we very much hope that their optimistic view is correct. However, what we have presented here is the best summary of scientific evidence available, and it paints a very bleak picture if we fail to rapidly reduce our greenhouse gas emissions. If we continue forward on our current path, catastrophe is not just a possible outcome, it is the most probable outcome. And an intelligent risk management approach would involve taking steps to prevent a catastrophic scenario if it were a mere possibility, let alone the most probable outcome. This is especially true since the most important component of the solution - carbon pricing - can be implemented at a relatively low cost, and a far lower cost than trying to adapt to the climate change consequences we have discussed here (Figure 4).

### 1AC – Plan

#### The United States federal government should substantially increase its economic engagement toward the Republic of Cuba.

### 1AC – Solvency

#### Only *full removal* of the embargo solves – partial or conditioned removal is worse than the status quo.

Gorrell 05 Lieutenant Colonel, U.S. Army War College [Lieutenant Colonel Tim Gorrell, Cuba: The Next Unanticipated Anticipated Strategic Crisis?, Strategy Research Project, 18 March 2005, U.S. Army War College, http://www.dtic.mil/cgi-bin/GetTRDoc?AD=ADA433074]

RETAIN SANCTIONS AGAINST CUBA, BUT ENFORCE THEM IN VARYING DEGREES DEPENDING ON THE POLITICAL CLIMATE AND THE CUBAN REGIME’S CONDUCT IN REGARD TO AMERICAN INTERESTS Throughout the past 15 years, the U.S. has experimented with a variable enforcement option. During the Clinton administration, restrictions were occasionally eased. For example, in March 1998, President Clinton announced: 1) the resumption of licensing for direct humanitarian charter flights to Cuba; 2) the resumption of cash remittances up to $300 per quarter for the support of close relatives in Cuba; 3) the development of licensing procedures to streamline and expedite licenses for the commercial sale of medicines and medical supplies and equipment; and 4) a decision to work on a bipartisan basis with Congress on the transfer of food to the Cuban people.33 In January 1999, President Clinton ordered additional measures to assist the Cuban people, which included further easement of cash remittances, expansion of direct passenger charter flights to Cuba, reestablishment of direct mail service, authorization for the commercial sale of food to independent entities in Cuba, and an expansion of people-to-people exchanges (i.e. scientist, students, athletes, etc.)34 This policy ended when the new administration failed to see any reciprocal progress from Castro. Fragmenting the policy process may do more harm than good. It does too little too late and causes hard feelings among Cubans and American businesses. The carrot-stick diplomatic approach will not make Castro yield. Such policy breeds inconsistency as it can vary from administration to administration, as it has between the Clinton and Bush administrations. The rules constantly change and thus have a ripple effect on American businesses and the quality of life of Americans, Cuban-Americans and native Cubans. Cuban trade has already declined to a trickle since the Bush administration sought to further squeeze the Castro government. Prior to the Bush administration’s trade crack down, 2004 was emerging as a record year for U.S. imports to Cuba. By the end of December 2004 U.S. suppliers and shippers were projected to have earned some $450 million, a 20% increase over 2003 sales.35 Imposing restrictions, as the Bush administration did in June 2004, perplexed American businesses with unpredicted problems. These businesses make adjustments, as do Cuban- American citizens, then must abruptly alter their business strategies because of a Congressional vote or an Executive order. This political tug-of-war does not move the U.S. any closer to realizing its security objectives. On the Cuban American front there is eroding support for this U.S. policy position. In the 2000 presidential election, President Bush won 81% of south Florida’s Cuban-American vote. A recent poll by the William C. Veleasquez Institute-Mirram Global indicates that his support today has fallen to 66%.36 This decline signals a negative response to policy that limits travel, restricts the amount of goods people can bring to their relatives, and places limitations on sending money to family in Cuba. Cuban-Americans believe that this only hurts their poor relatives in Cuba. According to Jose Basulto, head of Brothers to the Rescue, and Ramon Raul Sanchez, head of the anti-Castro Democracy Movement, the U.S. government is using the Cuban people to harass Castro.37 Applying policy in a give-and-take manner, accomplishes little to facilitate the fall of Castro. The Cuban people enjoy brief periods of limited benefits, only to have these benefits withdrawn should the President or members of Congress wish to take another jab at Castro. American civilian businesses are also negatively affected. LIFT ALL SANCTIONS AND PURSUE NORMAL DIPLOMATIC RELATIONS WITH CUBA Normalcy is the only policy that the U.S. has not attempted. The present policy misses the security implications, alienates allies and others worldwide, harms U.S. businesses, and is losing support domestically. First, the U.S. must reassess the threat posed by Cuba. There is, in fact, virtually no security threat. Further, policies that were applicable in the past, when there was a threat, should not be applied to the current environment. The U.S. Cuban policy is perplexing because it appears to conflict with the ends, ways and means that the National Security Strategy is applied in other regions of the world. The U.S. has normalized relations with Vietnam and Libya and has certainly opted for an open dialogue with Communist China. Likewise, there is abundant evidence that a new policy toward Cuba could very well achieve the ends that 43 years of embargo have failed to accomplish. Secondly, Cuba currently trades and has diplomatic ties with much of the world. The goal of U.S. sanctions is to isolate the Cuban regime; however, they have only slowed, not deterred economic growth. On 4 November 2003 the United Nations voted, for the 12th straight year, 173 to 3 (with 4 abstentions) against the four-decade U.S. embargo against Cuba.38 Voting with the U.S. were Israel and the Marshall Islands. The U.S.’ staunchest allies, the 15 members of the European Union, along with Japan, Australia and New Zealand, all object to the “extra-territorial” effect of U.S. legislation that they feel violates their sovereignty. 39 There are two schools of thought regarding trade and democracy. The first is that economic growth will promote democracy. The other questions this notion and argues that democracy must come first.40 There is strong opinion, however, that in Cuba’s case economic engagement will bring about the desired results. Certainly many Cuban-Americans and perhaps some others in the world would not agree with this course of action. However, there is evidence that a significant number of people both within the U.S. and abroad favor a policy change. In 1992 a pastoral letter from Cuba’s Bishops stated that the US embargo “directly affects the people who suffer the consequences in hunger and illness. If what is intended by this approach is to destabilize the government by using hunger and want to pressure civic society to revolt, then the strategy is also cruel.“41 The third consideration is U.S. business. Under the current rules, U.S. businesses are permitted to sell agricultural produce to Cuba.42 Today 27 firms from 12 U.S. states are doing business with Cuba, making Cuba 22nd among U.S. agricultural markets.43 These business activities are greatly influenced by Cuban-Americans and members of Congress. The economic power of the U.S. can be our most powerful weapon. The possibilities of economic engagement offer a myriad of branches and sequels that could promote a rapport between the American people and the Cubans. The aggressive pursuit of these endeavors would go far in ensuring an orderly transition to a post-Castro Cuba. It is an erroneous assumption to believe that Castro’s demise will miraculously trigger reform and all the problems of the last 40 years will vanish. A visionary policy, albeit constrained within the parameters of the Castro regime, will go far in setting agreeable social-economic conditions in Cuba both now and in the future. Finally, public opinion in the U.S. favors a new policy direction. A 1997 Miami Herald poll found that a majority of Cubans under the age of 45 supported “establishing a national dialogue with Cuba,” whereas for the most part their elders opposed such dialogue.44 Former President Jimmy Carter, writing in the Washington Post after his May 2002 visit to Cuba, reported that he found an unexpected degree of economic freedom. Carter went on to say that if Americans could have maximum contact with Cuban, then Cubans would clearly see the advantages of a truly democratic society and thus be encouraged to bring about orderly changes in their society. 45 Castro himself appears willing to consider greater reform. In 1998 he permitted Pope John Paul II to visit Cuba; Cubans are permitted to own property; he has opened trade; and in 2002 he broadcast former President Jimmy Carter’s address at the University of Havana.46 Additionally, he indicated that the Cuban government would return any of the Guantanamo detainees in the unlikely event that they would escape.47 CONCLUSION AND RECOMMENDATION U.S. policy makers need to confront the real Cuba of today in order to build a “free” Cuba of tomorrow that is capable of taking its place in the world community as a responsible, democratic nation. Given the history of the past 100 years, and particularly our Castro centric policy, the U.S. needs to make a bold change toward Cuba. The U.S. has pursued a hard-line approach toward the Castro regime for over 40 years. While this policy was easily justified during the Cold War era and, to a certain degree, during the 1990s, it fails to address the present U.S. national security concerns. The globalization trends of the 21st century are irreversible, Fidel Castro is in the twilight of his life, and a new generation of Cuban-Americans is supportive of new strategies that will ease the transition to a post-Castro Cuba while buttressing economic and social opportunities in the near term. Furthermore, there is a new dimension that U.S. policy strategists must take into account in deciding the course of U.S.- Cuba relations – the GWOT. World-wide asymmetrical threats to U.S. interests, coupled with the Iraqi occupation and the potential for any one of the present hot spots (i.e. Iran, North Korea, Taiwan, etc.) to ignite, should prompt strategic leaders to work harder to mitigate a potential Caribbean crises. The prudent action would then be to develop strategies that can defuse or neutralize these situations before they require the U.S. to divert resources from protecting its interests in the GWOT. Therefore, the U.S. can best serve its security, the Cuban people, and the Western Hemisphere by abandoning the present draconian policy toward Cuba. The U.S. should implement a new policy designed to achieve its goals through lifting all sanctions and pursuing normalized diplomatic relations; encouraging people-to-people dialogue and trade. The policy should continue to pursue human rights, democracy, and free market ends. However, the ways to realize these objectives should be grounded in full economic engagement, an approach that has not been fully attempted. The present U.S. policy has failed miserably. What does the most powerful nation on earth have to lose by attempting a bold shift in its policy toward Cuba?

#### Lifting of the embargo is inevitable – triggers your disads

**Ediger 9/19/12** – (Don, “Cuba Post-Castro Future” Masters from the University of Southern California and a writer for Consortium News with background at the Sacramento Master Club, Consortium News is a peer-reviewed and edited News service with reviewers from the Associated Press and Newsweek, Available online @ http://consortiumnews.com/2012/09/19/cubas-post-castro-future/)

With Fidel Castro now 86 and his brother Raul at 81, big changes appear inevitable in Cuba over the next few years. Cuban-Americans are ramping up investment plans, assuming the U.S. government will finally lift the embargo. But the future may not be all that’s expected, reports Don Ediger.¶ By Don Ediger¶ For more than 50 years, Cuban-Americans have been looking for ways to end the Castro regime. Today their plans are being re-shaped in ways that would have been all but unthinkable only a few years ago – and these plans will be affected by the outcome of U.S. presidential elections.¶ Most Cuban-Americans now believe that a transition to democracy may require a period of many years. In the meantime, a growing number of them are exploring ways to profit from a country that has been off limits for most American companies.¶ Cuban leader Fidel Castro speaking at the Jose Marti Monument in 2003. (Photo credit: Ricardo Stuckert/ABr.)¶ The key to this new strategy is an option that until recently wasn’t even open to discussion – ending the U.S. embargo. That is more likely to happen, Cuba experts say, if Barack Obama is reelected, because Democrats are traditionally more open to options regarding the embargo. There’s also growing doubt about whether outlawing Cuban imports actually hurts the regime.¶ “Personally, I think that the embargo is a completely failed policy,” says Miami attorney Antonio Zamora, referring to the 50-year-old law that was imposed after the Castro regime expropriated private property. In all those years, Zamora points out, only a few property owners have ever been compensated.¶ Though largely overlooked by the media, major shifts in Florida demographics make repeal of the embargo much more likely. Numbering more than one million, Cuban-Americans have been the largest Hispanic group in Florida, and for many years they overwhelmingly favored keeping the embargo in place. To win elections in Florida – the country’s largest swing state – politicians of both parties have traditionally promised to uphold the embargo for fear of alienating Cuban voters.¶ Now that’s changing. Hispanics from Puerto Rico, the Dominican Republic, Venezuela, Mexico and other Latin American countries are growing faster in numbers than those from Cuba. And while Cuban-Americans are mostly Republicans, others in Florida are heavily Democratic.¶ Moreover, Cuban-Americans themselves are changing their mind about the embargo. According to a recent study by the Cuban Research Institute at Florida International University (FIU), most Cuban-Americans in Miami would agree with Zamora that the embargo hasn’t worked well. In fact, 47 percent would like to see the embargo lifted.¶ “This is probably the first presidential election in which Cuba is not a top issue for the Cuban-American community,” says Andy Gomez, senior fellow at the University of Miami’s Institute for Cuban and Cuban-American Studies. A member of Mitt Romney’s staff phoned Gomez last year to get his advice on the topics that Romney should address when he visits Miami. Gomez’s answer wasn’t Cuba but jobs and the economy.¶ It’s not that Cuban-Americans are no longer interested in Cuba, Gomez says, but that they are “tired of the same thing over and over again.”¶ There’s a growing consensus among Cuban-Americans that lifting the embargo won’t help the Castros retain power – as some once thought – because the regime has been thoroughly entrenched for more than five decades. When Fidel Castro became ill six years ago, some experts thought the end was near, but today they discuss a variety of scenarios.¶ As Jose Gabilondo of FIU’s Cuban Research Institute explains it: “The logic of the U.S. embargo is ‘Let’s create conditions of civil unrest in Cuba by creating conditions of economic hardship such that there will be a popular uprising that will lead to a revolution.’ I reject that approach. I don’t think it makes sense.”¶ The other approach, Gabilondo says, “is to realize that transition is already happening in Cuba – slowly, and one deal at a time.”¶ A Vietnam-Style Scenario¶ The most likely scenario, many experts believe, is for Cuba to follow a path similar to Vietnam’s – continuing as an authoritarian socialist state but also opening up trade with the United States.¶ Several Cuban-American groups are already gearing up for this possibility, which comes with the prospect of huge profits for American companies once the embargo is lifted. There’s also a sentiment in the community that opening up trade might also provide the Cuban government with an incentive to be less repressive.¶

#### Independently, Latin America is structurally improving due to globalization

**O’Neil 6-16-13** (Shannon O’Neil is senior fellow for Latin America studies at the Council on Foreign Relations (CFR), O’Neil has taught in the political science department at Columbia University. She is a frequent commentator on major television and radio programs, and her work has appeared in Foreign Affairs, Foreign Affairs Latinoamerica, Americas Quarterly, Política Exterior, Foreign Policy, the Washington Post, and the Los Angeles Times, among others, and she has testified before the U.S. Congress on U.S. policy toward Mexico, she was a justice, welfare, and economics fellow at the Weatherhead Center for International Affairs at Harvard University. She was also a Fulbright scholar in Mexico and Argentina. Prior to her academic work, Dr. O’Neil worked in the private sector as an equity analyst at Indosuez Capital Latin America and Credit Lyonnais Securities. She holds a BA from Yale University, an MA in international relations from Yale University, and a PhD in government from Harvard University, “Latin American Success Story”, June 16th, 2013, <http://www.thedailybeast.com/articles/2013/07/16/latin-america-s-secret-success-story.html>)//moxley

Latin America rarely looms large on the global scene, overshadowed by Europe, the Middle East, and Asia on the agendas and in the imagination of policymakers, business leaders, and the global chattering classes. But under cover of this benign neglect, the region has dramatically changed, mostly for the better. Its economies have flourished. Once known for hyperinflation and economic booms and busts, Latin America is now a place of sound finances and financial systems. Exports—ranging from soy, flowers, copper, and iron ore to computers, appliances, and jets—have boomed. GDP growth has doubled from 1980s levels to an annual average of 4 percent over the past two decades, as has the region’s share of global GDP, increasing from 5 percent in 2004 to nearly 8 percent in 2011. Many of the countries have embraced globalization, opening up their economies and searching for innovative ways to climb the value-added chain and diversify their production. Trading relations too have changed: U.S. trade has expanded at a fast clip even as these nations diversified their flows across the Atlantic and Pacific. These steps have lured some [$170 billion in foreign direct investment in 2012 alone](http://www.eclac.org/cgi-bin/getProd.asp?xml=/publicaciones/xml/4/49844/P49844.xml&xsl=/publicaciones/ficha.xsl&base=/publicaciones/top_publicaciones.xsl)(roughly 12 percent of global flows). Led by Brazil and Mexico, much of this investment is going into manufacturing and services. Already the second largest holder of oil reserves in the world (behind only the Middle East), the hemisphere has become one of the most dynamic places for new energy finds and sources. From the off shore “pre-salt” oil basins of Brazil to the immense shale gas fields of Argentina and Mexico, from new hydrodams on South America’s plentiful rivers to wind farms in Brazil and Mexico, the Americas’ diversified energy mix has the potential to reshape global energy geopolitics. Already the second largest holder of oil reserves in the world (behind only the Middle East), the hemisphere has become one of the most dynamic places for new energy finds and sources. Democracy, too, has spread, now embraced by almost all of the countries in the region. And with this expanded representation has come greater social inclusion in many nations. Latin America is by all accounts a crucible of innovative social policies, a global leader in conditional cash transfers that provide stipends for families that keep kids in school and get basic healthcare, as well as other programs to reduce extreme poverty. Combined with stable economic growth, those in poverty fell from roughly two in five to one in four Latin Americans in just a decade. These and other changes have helped transform the basic nature of Latin American societies. Alongside the many still poor is a growing middle class. Its ranks [swelled by 75 million people](http://www.unodc.org/unodc/en/data-and-analysis/homicide.html) over the last 10 years, now reaching a third of the total population. The World Bank now classifies the majority of Latin American countries as “upper middle income,” with Chile and Uruguay now considered “high income.” Brazil’s and Mexico’s household consumption levels now outpace other global giants, including China and Russia, as today nearly every Latin American has a cell phone and television, and many families own their cars and houses. The region still has its serious problems. Latin America holds the bloody distinction of being the world’s most violent region. [Eight of the ten countries](http://www.unodc.org/unodc/en/data-and-analysis/homicide.html) with the world’s highest homicide rates are in Latin America or the Caribbean. And non-lethal crimes, such as assault, extortion, and theft are also high. [A 2012 study by the pollsterLatino Barometro](http://www.latinobarometro.org/latino/latinobarometro.jsp) found that one in every four Latin American citizens reported that they or a family member had been a victim of a crime during the past year. Latin America also remains the most unequal region in the world, despite some recent improvements. Studies show this uneven playing field affects everything from economic growth to teenage pregnancy and crime rates. These countries as a whole need to invest more in education, infrastructure, and basic rule of law to better compete in a globalizing world. Of course, nations also differ—while some countries have leaped ahead others have lagged, buffeted by everything from world markets to internal divisions. Nevertheless, with so much potential, and many countries on a promising path, it is time to recognize and engage with these increasingly global players. And while important for the world stage, the nations of the hemisphere are doubly so for the United States. Tied by geographic proximity, commerce, communities, and security, the Americas are indelibly linked. As the United States looks to increase exports, promote democratic values, and find partners to address major issues, such as climate change, financial stability, nuclear non-proliferation, global security, democracy, and persistent poverty, it could do no better than to look toward its hemispheric neighbors, who have much to impart.

#### And, the embargo is an act of genocide – it disproportionately affects the Cuban population and is maintained only to destroy socialism

**Malott 7** (Curry, From New Mexico State University in Las Cruces, NM, Currie Stephenson Malott received a Master's Degree in Sociology in 1998 and a PhD in Curriculum and Instruction in 2004. Before coming to West Chester University, Dr. Malott published and taught in the foundations of education and social studies at Brooklyn College/CUNY, D'Youville College in Buffalo, NY, and Queens College/CUNY. During this time, Dr. Malott has been interested primarily in advancing theoretical and practical application of critical pedagogy through the foundations of education and beyond. Dr. Malott is also the founder and series editor of Critical Constructions: Studies on Education and Society (Information Age Publishing). “Cuban Education in Neo-liberal Times: Socialist Revolutionaries and State Capitalism”, Journal for Critical Education Policy Studies, v5 n1 May 2007 pg. 245)//moxley

[The US has not been] trying to influence the revolution but to destroy it. Just as in Hannibal’s times when the Senate in ancient Rome proclaimed the destruction of Carthage, the obsessively pursued motto of U.S. administrations has been: Cuba must be destroyed. (Fidel Castro, 2002. p. 6) After the overthrow of the Batista dictatorship it did not take long for Washington to respond to Castro and his revolution. For example, in Killing Hope (1995) William Blum argues that, “bombing and strafing attacks of Cuba by planes based in the United States began in October 1959, if not before. In early 1960, there were several fire-bomb air raids on Cuban cane fields and sugar mills, in which American pilots also took part ... ” (Blum, 1995. p. 186). In 1961 the United States, relying on the support of the Cuba people, which they never got, orchestrated an unsuccessful, fullon invasion of Cuba, the “Bay of Pigs,” instigating the nearly catastrophic “Cuban Missile Crisis.” Embarrassed from the dismal failure of the “Bay of Pigs,” the Kennedy administration almost immediately initiated “... a campaign of smaller-scale attacks upon Cuba ...” (Blum, 1995. p. 186), despite how dangerously close to a nuclear war the US had just come. Describing Central Intelligence Agency (CIA) extra-law behavior toward Cuba throughout the 1960s, William Blum (1995) notes how the US repeatedly subjected the island to: Countless sea and air commando raids by exiles, at times accompanied by their CIA supervisors, inflicting damage upon oil refiners, chemical plants and railroad bridges, cane fields, sugar mills, and sugar warehouses; infiltrating spies, saboteurs and assassins ... anything to damage the Cuban economy, promote disaffection, or make the revolution look bad ... taking the lives of Cuban militia members and others in the process ... pirate attacks on Cuban fishing boats and merchant ships, bombardments of Soviet vessels docked in Cuba ... (p. 187) The United States government has also been implicated in using chemical and biological warfare directly against the Cuban civilian population by introducing poisons and diseases into the environment via avenues such as food supplies. Other chemical warfare tactics employed against the Cuban economy have included poisoning their number one export, sugar. The primary theory behind these attacks intended to topple the revolution is that if life is made so unbearable for the population, the people will eventually turn against those leading the struggle for social change, i.e. Fidel Castro. In other words the goal is to turn the people against their government by making them suffer and struggle, and instilling fear and terror into them. This twisted anti-democratic logic has not only informed and continues to inform the physical assaults against Cuba, but the trade embargo as well (Blum, 1995; Chomsky, 1999), which the Cuban government, drawing on the United Nations Universal Declaration of Human Rights of 1948, has consistently reminded the world that an embargo is an act of economic war and can therefore only be internationally recognized as legal between countries at war with each other. According to international law, only one conclusion can be drawn: the US embargo against Cuba is an act of US terrorism. Not only is the embargo internationally illegal, it has been revised throughout the course of ten US presidential administrations, consistently intensifying its levels of brutality. For example, in 1992 the US passed the Torricelli Act, after Cuba lost 85% of its foreign trade after the fall of the USSR, which further restricted Cuba’s ability to purchase food and medicine from US subsidiaries in third countries, which, at the time, amounted to 718 million US dollars. Then, in 1996, the Helms-Burton Act intensified the persecution of and sanctions against those investing in Cuba, both currently and potentially, in addition to authorizing funding for aggressive acts against the Island. However, while Cuba has been granted special permission, as of 2001, to make a limited number of purchases in the US, although with extremely tight restrictions, making many transactions, especially those in the areas of medicine, virtually impossible, the administration of President George W. Bush, in 2004, approved a report: For new actions and measures intended to intensify the blockade by stepping up actions aimed at discouraging tourism and investment in Cuba, by restricting financial flow and visits to the island and by placing even more restrictions on family remittances and exchanges in various spheres, the aim being to bring about conditions which would allow the US to intervene in Cuba, thus permitting them to impose the “regime change” to which the US president made reference on 20 May of that year [2004]. (Granma, 2005. p. 6) When the words “regime change” are uttered from the mouth of a US president, catastrophe usually ensues. While it would not be the first time the US attempted to institute a “regime change” in post-1959 Cuba, the phrase “regime change in Cuba,” coming from US President Bush II is nevertheless cause for alarm, as should the embargo in general be a source of indignation for all US citizens (for an increasing number it is) for its illegality is carried out in their name. The illegal US trade embargo against Cuba has, without a doubt, been the most publicized counter-revolutionary tactic both within and outside of Cuba, which, for the past 15 years, the UN General Assembly has passed a resolution calling for the US to end (Amnesty International, 2003). Summarizing the United States’ Trade Embargo against the nation they have been sworn to serve and protect, quoting a secret State Department report by I.D. Mallory (Department of State: Foreign Relations of the United States, volume VI, 1991), declassified in 1991, the editors of the Cuban government’s publication, Granma (2005), note: The economic, commercial and financial blockade imposed by the United States against Cuba is the longest-lasting and cruelest of its kind known to human history and is an essential element in the United States’ hostile and aggressive policies regarding the Cuban people. Its aim, made explicit on 6 April 1960 is the destruction of the Cuban Revolution: “( ... ) through frustration and discouragement based on dissatisfaction and economic difficulties ( ... ) to withhold funds and supplies to Cuba in order to cut real income thereby causing starvation, desperation and the overthrow of the government (...)” (p. 3) The effect of the embargo on the Cuban people has been severe. For example, in a groundbreaking analysis of Cuba’s resistance to the pressure to privatize from neoliberal global capital Báez (2004) notes that the US$41 billion Cuba lost between 1962 and 1996 has had a real impact on the Cuban people’s standard of living. Báez (2004) notes that “the written object of the law was to punish any businesses that were investing in Cuba, in addition to prohibiting the IMF and World Bank from facilitating business transactions on the Island” (p. 111). In the aforementioned Cuban report published in Granma (2005) the devastating manifestations of the consistently intensifying US embargo, supported and added to by Democratic and Republican presidential administrations alike, are laid out in detail highlighting the implications on Cuba’s “food sector,” “health sector,” “education sector,” “tourism sector,” “finances,” transportation sector,” “civil aviation,” “oil,” among other areas such as the “sports sector.” The Cuban report pulls no punches concerning the seriousness of the embargo and its combined effect on the various sectors of Cuban economic and social life: This policy ... amounts to an act of genocide under the provisions of paragraph (c) of article II of the Geneva Convention for the Prevention and Punishment of the Crime of Genocide of 9 December 1948 and therefore constitutes a violation of International Law. This Convention defines this as ‘( ... ) acts perpetrated with the intention to totally or partially destroy a national, ethnic, racial or religious group’, and in these cases provides for ‘the intentional subjugation of the group to conditions that result in their total or partial physical destruction’. (Pp. 3-4) Again, the Cuban government, noting that the US embargo has in fact been designed to “totally ... destroy” their nation constituting an act of genocide, has repeatedly garnered the overwhelming support of the international community in their call for its immediate termination. By not only ignoring the collective voice of the United Nations to end the embargo, but by intensifying it as well, the US has consistently shown a blatant disregard for international legitimacy. Despite the real devastation the embargo and other forms of US terrorism have had on Cubans, Báez (2004) argues that they cannot alone explain all of Cuba’s problems. Báez (2004) points to the fall of the Soviet Union has having perhaps the most (or equal) dire effects on Cuba paving the way for the opening up of certain areas of the “Cuban Market” to foreign investors, as Castro struggles to generate value/hard currency/US dollars to fund the Revolution’s social programs and feed his people, 70% of whom have lived their entire lives under the embargo (Granma, 2005).

#### The unconditional offer of normal trade relations boosts US-Cuban relations and fosters a stable transition – that’s key to American soft-power

**Koenig, 10** – US Army Colonel, paper submitted for a Masters in Strategic Studies at the US Army War College (Lance, “Time for a New Cuba Policy” <http://www.dtic.mil/cgi-bin/GetTRDoc?AD=ADA518130>)

The option with the greatest possibility of success and reward for the United States is to support the Cuban people, but not the Cuban government. The United States should take the following actions unilaterally: • Lift completely the economic embargo. Establish banking and financial relationships to facilitate the trading of goods and services between the two countries. • Lift completely the travel ban to allow not only Cuban-Americans with relatives but also all other Americans to travel to Cuba. This interaction of Americans with Cubans will help raise the awareness of Cubans about their northern neighbor. • Next, the United States should engage the Cuban government to develop a bilateral trade agreement. The goal of this initiative would be to achieve normal trade relations between the two countries. This leaves the issue of compensation for United States companies and individuals whose property was expropriated by the Cuban government. With the embargo lifted, the United States should enlist the assistance of the European Union and Canada to apply pressure to Cuba as well as to assist in negotiations with the World Trade Organization to address issues with illegally confiscated property.36 The United States will gain leverage with the Cuban government as relations improve, and that will be the time to address human rights in Cuba. The return of the Cuban Five, a group of Cuban spies arrested and convicted in Florida, should be worth some human rights concessions. In Cuba, these men are known as the “Cinco Heroes” and their plight is well known.37 So what leverage do we have now that we have unilaterally given the Cuban government most of what they have wanted? Offer to return back to Cuba the Guantanamo Naval Base after the government of Cuba shifts towards a representative orm of government. The foundation for this action has already been laid with the Libertad Act. “The future of the Guantanamo base, a provision in the Cuban Liberty and Democratic Solidarity Act of 1996 states that once a democratically elected Cuban government is in place, United States policy is to be prepared to enter into negotiations either to return the base to Cuba or to renegotiate the present agreement under mutually agreeable terms.” 38 The United States Congress should soften the language referring to a democratically elected government and instead substitute that a representative form of government is required before entering into negotiations for the Guantanamo base. Once Cuba makes changes towards a representative form of government the United States can start working on democratic reforms. The carrot is to offer Cuba, in exchange for changes to a democratic form of government, support for their return to the Organization of American States (OAS). Until Cuba makes changes towards democracy, the United States should block the request of several member states to let Cuba into the organization. Secretary of State Hillary Clinton said it well in a recent interview. “Many member countries originally sought to lift the 1962 suspension and allow Cuba to return immediately, without conditions, others agreed with us that the right approach was to replace the suspension — which has outlived its purpose after nearly half a century — with a process of dialogue and a future decision that will turn on Cuba’s commitment to the organization’s values.”39 These values include promoting democracy and defending human rights. The window of opportunity is open now for this type of change. The Obama administration has taken some steps in this direction with the lifting of remittance limits, unlimited visits to relatives in Cuba, and the ability to provide cell phones to relatives in Cuba. The other recent change is the new majority of Cuban-Americans, in Florida, that support removal of the embargo. Based on votes in the United Nations and the European Union it is clear that world opinion would definitely be supportive of this action. The combination of the above mentioned events now points to an opportunity to make real progress that will benefit both nations. The United States would gain in soft power, gain an additional economic trading partner, and have a chance to influence the type of changes in the Cuban government as the Castro influence wanes. Clearly, support to the Cuban people will indirectly provide support to the Cuban government, but that could work against the regime as well if the people realize that improvements in their living conditions are not the result of communism, but from the interaction with the capitalist world. There is a sound reason for unilaterally lifting the trade and travel embargoes without first seeing positive actions from the Cuban government. From Cuba expert Carlos A. Saladrigas, Co-Chairman, Cuba Study Group, “We can go back in the history -- in the 50-year history of United States-Cuba relations and clearly see that any time we begin to see a little bit of relaxation of tensions in the relationship, whenever we begin to see a little bit of openness on the part of the United States or Cuba, historically the Cuban government has done something to counteract that trend and significantly revert back to their playbook.” 40 The United States needs to take the initiative away from the Castro regime, and have them react to actions they have publicly called for (removal of the embargo), but in reality are unsure of the second and third order effects and their ability to control the outcome. One of the first problems for the Cuban government after the removal of the embargo will be the excuse for the poor performing economy. “… the embargo and the United States policy of confrontation and isolation have been incredibly useful to the Cuban regime as an alibi for the failures of the regime to meet the fundamental needs of the people on the island, but also is a significant source of legitimacy, both internal and external.” 41 This situation may present the United States with the opportunity to step in to assist with market reforms if the Cuban economy sputters and the government realizes they don’t have a scapegoat. Conclusion The efforts expended by the United States to keep the embargo effective, the loss of trade, and the loss of soft power in most of the world are clearly not worth it in comparison to the threat that Cuba poses today. The gains to be achieved by following any path other than the unilateral removal of the economic and travel embargoes are small in comparison to the overall costs of continuing the current failed policy. The United States is losing far too much soft power in its efforts to punish and isolate the government of Cuba. American firms could be left out of any economic gains as Cuba continues to grow its economy. As Cuba emerges from the economic difficulties of the last two decades, the United States has an opportunity to influence the future direction of our southern neighbor. The current United States policy has many passionate defenders, and their criticism of the Castro regime is justified. Nevertheless, we must recognize the ineffectiveness of our current policy and deal with the Cuban regime in a way that enhances United States interests.42 The United States cannot afford to miss out on the window of opportunity to affect a positive change in the relationship with Cuba. If Cuba is able to continue on a path of economic progress and emerge once again as a true regional power, with communism intact, the United States will be the loser in this half century struggle. Cuba is spreading its limited influence to Venezuela, Honduras, Nicaragua, and will be ready to bring in any other countries in the Americas that want to move away from the United States orbit. The United States can’t stand by and watch Cuba regain strength, intact as a communist country, but must take this opportunity to create an inflection point for Cuba that guides her onto a path that will benefit the nations of the Americas.

#### The US is key to global ag policy

WFP 10 [World Food Prize, “Chicago Council Wins Grant to Expand Global Agricultural Development Initiative,” Dec 23, 2010, pg. http://www.worldfoodprize.org/index.cfm?nodeID=24667&action=display&newsID=11003]

A number of policy developments indicate that the United States is beginning to recognize the transformational role agriculture can play in addressing the challenge of global poverty: President Obama called for a doubling of U.S. support for agricultural development in 2010 at the G-20 summit in April 2009; the U.S. Administration rolled out its initial strategic and implementation thinking on the Feed the Future initiative in May 2010; and both the House and Senate have considered legislation to enhance support for agricultural development. However, to ensure these advances are realized in a way that can have a tangible impact on global poverty during a time of economic uncertainty, further policy innovation, sustained political and financial support, and accountability of U.S. policy for agricultural development and food security is needed. “U.S. leadership is key to ensuring agricultural development receives the long-term policy attention and resources needed to reduce global poverty and hunger over the long term,” said Glickman. “The next three years will be critical in determining whether the new U.S. impetus for leadership in agricultural development and food security will become a prominent, effective, and lasting feature of U.S. development policy.” Over the last two years, food security has risen to the top of the agenda of global issues that need urgent national and international attention. Prompted by the food price crisis of 2008, the increase in the number of people living in abject poverty rose to over 1 billion in 2009, and the need to nearly double food production to meet global demand by 2050, world leaders are giving new attention to agricultural development in poor regions and the sufficiency and sustainability of the world’s food supply. “Agricultural development is the essential first step to alleviate extreme poverty and hunger in developing nations,” said Bertini. “We have the knowledge, tools and resources necessary to solve global hunger, but what is needed is sustained momentum in U.S. policy toward supporting agriculture as a poverty alleviation tool.”

#### Currently, the embargo won’t get removed until 2018

**Rajo 3-2-13** (Carolos, “Analysis: Castro brothers' successor may inherit a very different Cuba”, March 2nd, 2013, <http://worldnews.nbcnews.com/_news/2013/03/02/17133513-analysis-castro-brothers-successor-may-inherit-a-very-different-cuba?lite>)//moxley

The U.S. State Department reacted tepidly to Castro’s announcement and made clear that it would not be sufficient to prompt a lifting of the U.S. trade embargo. Although President Barack Obama doesn’t have election constraints in formulating a Cuba policy in his second term, the issue remains emotionally and politically charged in the U.S., and Congress is not likely to change its mind and lift the embargo while a Castro remains in power. That doesn’t mean relations can’t change, however. For instance, the Obama administration could remove Cuba from the list of states that sponsor terrorism. Cuba had been on that list since 1982, when it had the financial support of the Soviet Union and could afford to help guerrilla groups in Central and South America. Cuba doesn’t have the resources to help armed groups - or even the political will to do so. Cuba is not Syria, North Korea or Iran in terms of being a threat to the U.S. However, the lifting of the embargo is likely only after a period of more normal relations between the countries. There is also a legal obstacle: According to the Helms-Burton Act of 1996, the U.S. will recognize the legitimacy of a Cuban government only when someone other than a Castro is in power. For now, at least, it seems that won’t happen until 2018.

#### Only the *Cuban model* solves – US adoption allows for a shift to sustainable urban agriculture worldwide

**Peters 10** (Kathryn A., , LL.M, University of Arkansas School of Law, Graduate Program in Agricultural and Food Law; J.D. 2010, University of Oregon School of Law, “Creating a Sustainable Urban Agriculture Revolution “, 2010, <http://law.uoregon.edu/org/jell/docs/251/peters.pdf>)//moxley

In the years prior to 1990, Cuba was reliant upon industrial agriculture and foreign imports for its food supply.160 A study of the food shortage crisis Cuba experienced in the early 1990s demonstrates the vulnerability of the current U.S. food production and supply systems. Cuba’s subsequent shift to an urban agricultural system employing sustainable farming practices provides a model for change that could be used in the United States. A sustainable farming system would minimize the impacts of the food production system on the environment, reduce U.S. dependence on foreign resources, and create stable supplies of healthy and nutritious food within urban communities. Prior to the collapse of the Soviet Union, Cuba’s agricultural system was largely monocultural, highly mechanized, and dependent upon petrochemicals, oil, and machinery, similar to the present U.S. agricultural system.163 Much of Cuba’s land was dedicated to the production of sugar cane, which resulted in “increasing reliance on imports to satisfy the basic food requirements of the population.”164 Food imports from the Soviet Union made up fifty-seven percent of Cuba’s food supply.165 With the collapse of the Soviet Union in 1990 and the United States’ passage of the Torricelli Bill in 1992, which tightened the embargo against Cuba, Cuba was cut off from food production supplies, oil, and food imports.166 The impact of fuel shortages quickly resulted in food not being able to be refrigerated and transported into the urban areas.167 By 1992, Cuba was plunged into a food shortage crisis, with average daily caloric and protein intake dropping as much as thirty percent below levels seen during the 1980s.168 Due to the austerity of the wartime conditions and the implementation of government emergency measures without the presence of military conflict, this period of Cuba’s history has become known as the Special Period. Cuba’s Special Period serves as a model for the threat that exists when a nation’s food supply is tied to petroleum and food imports. In response to the food shortage crisis, Cubans in urban areas faced two options: starvation or self-sufficiency without reliance on chemical or mechanical technologies.170 Havana, with a population of 2.2 million, did not have a food production infrastructure and virtually no land had been dedicated to food production, which made the city particularly vulnerable to the threat of mass starvation.171 Independent of government action, Havaneros “spontaneously began to plant food crops in the yards, patios, balconies, rooftops and vacant land sites near their homes.”172 Those who had space began to raise chickens, rabbits, and pigs; neighborhoods came together to plant crops without the use of chemical inputs and machinery.173 Thus a sustainable, organic agricultural system was born within the urban areas of Cuba. Several years after the spontaneous development of urban gardens by Cuban residents, the Cuban Ministry of Agriculture created the Urban Agriculture Department to develop a state-supported infrastructure to aid and support urban gardens.175 The goal was to cultivate all of the city’s open land and provide extension services and resources for the newborn urban gardens.176 The Urban Agriculture Department works with Cuba’s agricultural research sector to develop information and resources to foster small-scale, sustainable urban agriculture.177