

Not for profit organization established in Grenada in 1995 kido-ywf@spiceisle.com

Mission Statement

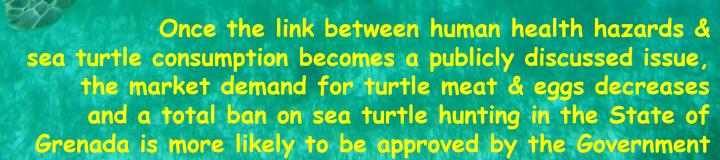
The social and the environmental must now come together.

Indeed, they should have never been apart

Health Hazard
Awareness Campaign
on Sea Turtle as Food



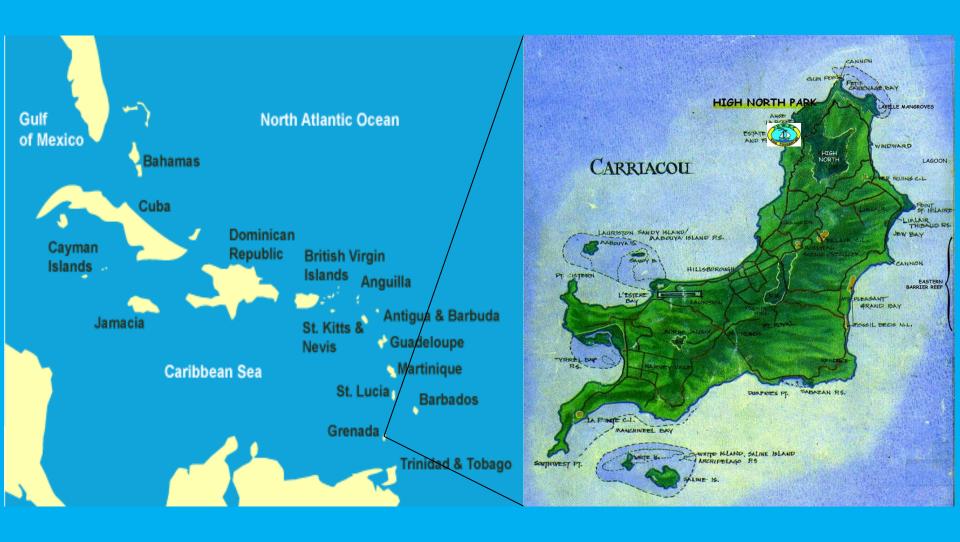
Educate the public that the traditional consumption of turtle meat, blood and eggs as food puts consumers at a high risk of food poisoning







Location



Background info

The waters surrounding the tri-island State of Grenada & the Southern Grenadines provide foraging and mating areas for Green (Chelonia mydas) and Hawksbill turtles (Eretmochelys imbricata). Loggerheads (Caretta caretta) are decreasingly found in these waters.

Leatherbacks (*Dermochelys coriacea*) & Hawksbills (*Eretmochelys imbricata*) nest on our beaches.





The Law in Grenada

No person shall fish for, take, sell, purchase, have in his possession or disturb the nest of any sea turtle of any size at any time.

No person shall fish for, take, sell, purchase or have in his possession any leatherback sea turtle of any size at any time.

No person shall fish for, take, sell, purchase, have in his possession or disturb any species of sea turtle during the designated closed season (1st May – 31st August).

No person shall fish for, take, sell, purchase, have in his possession or disturb any sea turtle under 25lbs at any time.

Anyone found violating this regulation will be prosecuted.

Targeted fishing practices (one speed boat with 3 fishers hauled 30 turtles in one trip) and consumption of turtle eggs (for assumed aphrodisiac purposes-6 eggs in one go) are widespread.

Mature Hawksbills, caught at the beginning and end of the hunting season (September-April), are likely to be in their nesting period (May-December).

In Grenada, nesting leatherbacks are under a greater pressure: the traditional culture of eating sea turtle eggs and meat brings poachers to defy the law and slaughter leatherbacks in unmonitored nesting beaches.



Enforcement of the present legislation is non-existent. In Carriacou, non targeted Leatherbacks remain entangled in fishers' nets in March-April, at the end of their long journey from their foraging grounds to their nesting grounds or are caught while nesting





Donella nested in Petit Carenage, Carriacou north, three months later, in June of 2006. She returned to nest on the same beach in 2008 & 2010



Other chronic anthropogenic impacts affecting sea turtles include: loss of suitable nesting beaches due to development & sand mining

Sand mining in Petit Carenage, main nesting beach in Carriacou for leatherbacks & hawksbills, on July 14, 2010



Activities

- Power Point presentations
- Newspapers articles
- Leaflets
- Radio programs
- School programs

Based on current research findings related to the contamination of sea turtle meat & eggs by heavy metals & chemicals (METHYL-MERCURY, POLYCHLORINATED BIPHENYLS-PCBs, CADMIUM, chlordane, dieldrin, DDT) and potentially harmful bacteria.

SEA TURTLES and EGGS are NO longer Safe Food!



Power Point presentation by **Tyrone Buckmire** Director of Kido Foundation

Venue: Carriacou Resource Center Date: Friday, December 3rd, 2010 Time: 5pm

This presentation will inform the public about the latest discoveries of health hazards related to the consumption of sea turtles as food





Approach

Our Social/Educational Approach is:

- <u>Avoiding</u> the condemnation of traditional fishing practices and consumption of sea turtle meat and eggs
- Spreading verifiable information (scientific findings, photographs and case studies) on the potential health risks for humans (especially children and women of childbearing age) consuming turtle meat, blood and eggs

Kido sea turtle presentation Harvey Vale primary school Carriacou 2011



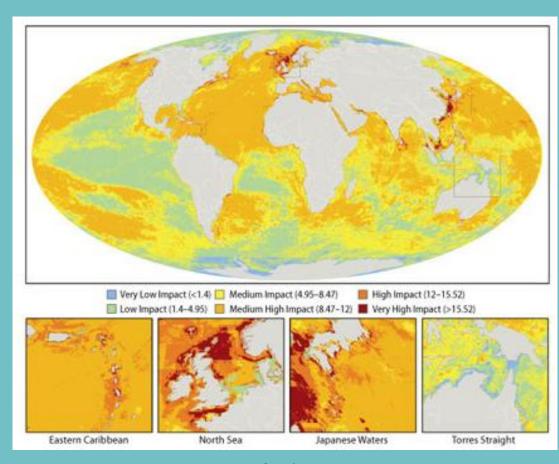
- Pointing out facts:

 Sea creatures safe to consume 50 years ago may no longer be safe, because ocean pollution reached dangerous levels, due to the planet's rapid industrialization utilizing mercury (in the

past 40 years)

 Also the <u>Caribbean</u> sea is polluted

- Turtles are long distance <u>migratory</u> <u>species</u> & may spend part of their life in highly contaminated areas (i.e. The Gulf!)
- During their long lives turtles accumulate elevated levels of contaminants.



STATE of the OCEAN
LESS THAN 4% is INTACT

- Listing possible negative health effects caused by the consumption of contaminated turtle meat, blood & eggs, such as brain damage in fetuses and children
- Explaining that, though some people who ate turtle or eggs
 for many years feel healthy, this does not prove that the
 building up of contaminants in their body is not present.
 Records show that any turtle today may be heavily
 contaminated and its consumption can pose risks of serious
 food poisoning



Grenada, June 12, 2010. Kido Power Point presentation at media retreat event, with the participation of Dr. Jennifer Isaac, MD

- Debunking myths that <u>eating sea turtle does not cure</u> <u>anemia</u>, <u>asthma and respiratory problems</u> and <u>eggs are NOT aphrodisiacal</u>: there are no data supporting such claims, on the contrary, <u>eggs can have high concentrations of pollutants that might actually impair fertility!</u>

The Impact on Health of Consuming Turtle Products

Dr. Jennifer Isaac MD

In collaboration with

Grenada Fund

for

Conservation Inc.

and

KIDO Foundation





urtles live for many years. They migrate thousands of miles from feeding grounds in cooler climates to nesting grounds in warmer climates and can travel up to approximately 130 miles per day.

They eat everything, seaweed, sponges, fish, mollusks and because of their longevity and migratory behavior, may accumulate many pollutants from these food items including potentially lethal toxins including harmful algal blooms known as "red tides".

Some of the toxins they accumulate include environmental pollutants such as:

- Heavy metals: Mercury and Cadmium and these two are synergistic.
- Pesticides like chlordane, dieldrin and DDT, PCB's (Polychlorinated Biphenols)

The levels of toxins and heavy metals contained in turtle products often exceeds international food safety standards.

The WHO & EU have set allowable concentration of DDT and its breakdown products in food no higher than 50ppb (parts per billion), In oceans, the concentration of some breakdown products of DDT is as much as 770ppb and 1200ppb.

n general, the effects of these toxins and heavy metals, especially mercury, include developmental effects on fetuses and children, neurotoxicity, nephrotoxicity and liver cancer.

Turtle eggs, wrongly considered an aphrodisiac, may have such high concentration of pollutants that they may actually cause impaired fertility.

The effects on the nervous system in children include neuro-developmental diseases, mental retardation, ADD (Attention Deficit Disorder) and possibly autism. In adults, memory problems, Alzheimer's, dementia, ALS (Amyotropic Lateral Sclerosis), MS (Multiple Sclerosis) Parkinson, inability to concentrate, tremor, ataxia (loss of balance), impaired hearing, tunnel vision, dysarthria (slurred speech), headaches and depression. Some other conditions linked to toxicity are chronic fatigue syndrome, fibromyalgia and. especially in men, heart diseases and impaired sexual function. Kidney toxicity causes leaking of protein into the urine and renal failure.

GI symptoms are nausea, excessive salivation, vomiting, diarrhea and colitis. (V & D can in turn lead to serious dehydration and death).

n addition to toxins, turtles may carry bacteria eg. mycobacteria (family of organisms that causes TB) salmonella, vibrio (family of organisms that causes cholera), E-coli, Chlamydia (causing a pneumonia-like disease) leptosira (headaches, fever, muscular aches, abdominal pain, vomiting, diarrhea, red eyes, jaundice).

Therefore, consuming improperly cooked turtle meat can make you very sick, cause diarrhea, vomiting, dehydration and ultimately death. Turtles also carry flatworms, (trematodes), some amoebae and crptosporum (funguses)

I would like to recommend that strictly from a health standpoint, it is extremely hazardous to consume turtle products. There is a problem in the accumulation of toxins, you cannot get rid of toxins by cooking the meat. The cooking would kills bacteria and fungus, but not eliminate the toxins.

Pollution is the problem, we may have a clean environment in the Caribbean, but, since the turtles travels long distances and live so long, it is a question of toxic accumulation in their bodies. They are high up in the food chain, so they have a potential to accumulate these toxins present in their food (jellyfish, sponges, crustaceans, small fish, sea grasses). We want to minimize human exposure to these contaminants, which create permanent damage in your body.

Kido Foundation Carriacou Grenada Phone: 473-443 7936

Email: kido-ywf@spiceisle.com

"The impact on Health of Consuming Turtle Products"

Leaflet produced by Dr. Jennifer Isaac, MD in collaboration with Kido Foundation & Grenada Fund for Conservation

The leaflet is distributed to audiences of Power Point presentations, including school children

- Introducing a variety of case studies of food poisoning & contaminated turtles around the world & proof that unhealthy turtles are also found locally
- Indicating that a healthy looking turtle may in fact be contaminated!





The photos of these two green turtles were very effective to show the danger of eating turtle meat, especially when it was explained that fibropapillomatosis is a process and can be internal too.

Tainted turtle meat is often offered for sale in public local markets, regardless of evident tumors, which are simply cut off.

The turtle in left photo was rescued by Kido at the Carriacou fish market in 2007. It was for sale for public consumption. Juvenile green on the right, rescued in 2010.

Why Sea Turtles are Important

Sea turtles play an important role in the marine eco-system and our lives. Sea turtles' diet includes jellyfish. therefore help control jellyfish populations. Did you those of yellowfin tuna? Relentless hunting of turtles and poaching of their eggs could drive turtles to extinction within the next ten years, and the consequences an clear: the demise of sea turtles causes the loss of important amounts of fish species consumed by humans.

Hawksbills protect reefs by feeding on sponges

clearing space for the formation of new coral colonies. Green turtles feed on sea grasses, keeping the beds short and healthy, thus providing shelter to hundreds of species of small fish and crustaceans. The decline of of sea grasses and the disappearance of coastal fish. Sea grasses protect the coastline from wave erosion thus stabilizing beaches. Loggerheads feed on crusta-ceans and discard the bits of shell in their feces; the

Stopping the harvesting and consumption of sea urtles and their eggs is important not only to contribpreserve our own health. Sea turtles have been a traditional food supply for many peoples in the Caribbean, but recent research has shown that turtle meat is often heavily contaminated. By eating turtle meat or health damage and even death.

Our oceans have been massively polluted with heavy metals, mercury in particular, for the past 40 years, due to chemical industrialization. Yearly, up to 6,000



for producing chlorine (used in plastics, pesticides and PVC pipes). Incinerators burning waste, including our popular backyard burning of garbage containing plas-tics, release mercury into the air, land and water, end-

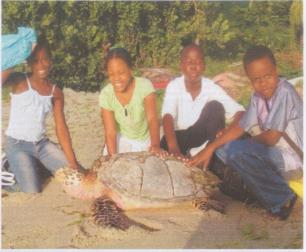
ing up in our oceans.

Turtles, in their long migratory lives, accumulate in their bodies elevated levels of contaminants present in the marine environment: mercury, cadmium, POPs (Persistent Organic Pollutants) and a cocktail of differ-ent pesticides. Inorganic mercury, in contact with water organisms, becomes methyl-mercury, a highly

Sea Turtles and Their Eggs:

NO LONGER SAFE FOOD

bu Marina Fastiai



Above: Children with a healthy hawksbill turtle to be released. Sea turtles have been a traditional food supply for many peoples in the Caribbean, but recent research has shown that turtle meat is now often contaminated Left: Youth group in Carriacou with a rescued green turtle, also ready for release

toxic form of mercury. Small fish feed on tiny contaminated organisms; larger fish feed on small fish, accumulating mercury in their bodies; unable to expel these heavy metals through digestion, these remain in the organic system, poisoning it. High in the marine food-chain, migratory species such as the largest fish (tuna, swordfish, marlin, sharks, king mackerel, etcetera), dolphins, whales and turtles end up carrying very

high concentrations of methyl-mercury in their flesh,

high contentations of the blood, organs and eggs.

The Global Map of Human Impact on Marine Ecosystems (Science magazine, 15 February 2008) shows that the Caribbean Sea ranges from "Medium" to "Very High" impact in terms of pollu-

—Continued from previous page
Fish-eating migratory species (including birds) have
been tested and found to be highly contaminated even in the most remote areas of the planet, demonstrating that location is no longer a factor of safety from pollufood-chain process of sea and air creatures, winds and

Connecting the Dots of a Larger Picture

Since 2002, the Barbados Sea Turtle Project, the University of the West Indies and the Wider Caribbean ing the Kido Foundation, have being applying ID tags to nesting and foraging turtles to monitor their migrations. Some hawksbills nesting in the Eastern Caribbean (as well as Green turtles that forage there) travel to the heavily polluted Gulf of Mexico, and our southern-born leatherbacks travel as far north as

and Europe, labels on large fish packages in super-markets warn consumers of possible health risks. According to an article in the September 16th, 2006 Issue of New Scientist magazine, the level of cadmium in sea turtles measures three times higher and mer-cury ten times higher than in tuna!

High levels of cadmium, aluminum, chromium, lead, silver, mercury and titanium were found in tissue suver, mercury and utanium were tound in ussue samples taken from nearly 1,000 whales over a five-year period, from polar to equatorial waters. Mercury as high as 16 parts per million was found in these whales. Mercury-high fish (shark, swordfish), which health experts warm children and pregnant women to avoid. typically have levels of about one part per million. The World Health Organization and EU have se

allowable concentrations of the banned pesticide DDT and its breakdown products in food at no higher than 50 ppb (parts per billion). Sea turtles in the Atlantic have showed concentrations of breakdown products of DDT as high as 1,200 ppb.

Health Hazards

Medical researchers warn of the insidious effects that mercury toxicity may cause to the brain develop-ment of unborn babies and younger children. Effects include neuro-developmental diseases, mental retar-dation, attention deficit disorder and autism. Other serious risks for children and adults are neurotoxicity, kidney disease and liver cancer.

ing include chronic fatigue, fibromyalgia, depression, anxiety, obesity, dementia, Parkinson's disease, cancer, heart failure and heart disease, memory problems, Alzheimer's, amyotropic lateral sclerosis, multiple sclerosis, encephalopathy (non-specific brain malfunc-tion), inability to concentrate, tremors, loss of balance, impaired hearing, tunnel vision, slurred speech, head-aches, muscle pain and twitches, insomnia, digestive problems and food allergies.

Aphrodisiac or Impaired Sexual Function? Sea turtle products have been prescribed over the centuries as remedies for anemia, asthma and respiratory problems and, in the Caribbean, sea turtle eggs are traditionally claimed to be an aphrodisiac, consumed mainly by males hoping to boost their sexual performance. According to doctors, the opposite is

true: the high concentrations of cholesterol and pollutants in turtle eggs may impair sexual performance and lower fertility; namely, it is the very consumption of turtle eggs that likely caused the embarrassing physical failure in the first place!



Below: A hawksbill with fibropapillomas. First seen on Green turtles in the 1980s, this type of tumor has now



Reported globally, cases of poisoning and deaths (especially among children) from eating sea turtle meat, organs and eggs and drinking turtle blood, reveal the seriousness of the problem. In June this year, in Thailand, three persons died of chelonitoxism from ingesting hawksbill turtle meat; a village woman, an 11-month-old boy breast-fed by his mom who had eaten the same turtle meat, and a 60-year-old woman. Dozens of those who shared that turtle meat also suffered from symptoms including respiratory difficulty stomach pain, nausea, vomiting, fever and double vision, but survived. In the Solomon Islands six children died out of the 28 people affected within five days

of eating turtle meat.

Based on the mortality statistics related to tur poisoning, the public — in particular women of child-bearing age, nursing mothers and small children should be discouraged from consuming any sea turtle products. Though turtles may appear healthy, there is a high risk that they carry internal tumors or danger ous bacteria and are contaminated with methyl-mer

Tumors Affecting Sea Turtles

Turtles too suffer from the pollutants they ingest and increasingly develop fibropapillomas (tumors or cancerous growths), which affect humans as well. On March 21st, 2007 in Carriacou, a mature Green turtle with a four-inch fibropapilloma bulging over her right eve was purchased alive by Kido Foundation at the fish market, thus preventing her contaminated meat from being sold to the unsuspecting public. This turtle had several smaller tumors on her neck, flippers and plastron. An inquiry among fishermen revealed that it was not the first sea turtle with fibropapillomas to be sold to the public in Carriacou. International fisheries records show that sea turtles

worldwide are afflicted with fibropapillomas. First seen on Green turtles in the 1980s, this type of tumor has now spread to other turtle species. It grows on soft tis-sues, eyes and mouth, through the carapace and plas-tron (belly), on lungs, kidneys, liver and intestines.

Bacteria Present in Sea Turtles

bacteria: mycobacteria (which may cause TB), salmo-nella, vibrio (may cause cholera), E-coli, chlamydia (causing a pneumonia-like disease), leptospira, arse-nic and potentially lethal toxins from ingesting algal blooms ('red tides').

Data from 2003 - 2004 showed that 80 percent of the

high antibody levels of leptospirosis. People infected with leptospirosis often show no symptoms, but left untreated, it can cause kidney damage, meningitis liver failure, respiratory distress or death.

Cooking may kill bacteria and fungi (although it is very difficult to eliminate bacteria from your hands and tools after handling raw meat), but cooking does not eliminate the harmful toxins, which once ingested remain in our bodies. It is important to underlin that cooking turtle meat or eggs cannot get rid of

Proposal for the Immediate Future

Common sense and deep concern for public health, as well as basic environmental conservation, suggest that authorities in charge need to establish a morato rium for hunting sea turtles in each Caribbean state, banning the trade and consumption of turtle products. It is also strongly suggested that authorities and the media duly inform the public of the health hazards associated with the consumption of sea turtles and eggs, as well as of other contaminated ocean creatures, which may expose us and future generations to Marina Fastigi, Ph.D. is Director of Kido Foundation, a

Marina Fastigi, Ph.D. is Director of Kido Foundation, a not-for-profit organization in Carriacou, Grenada. "Sea Turtle as Food is a Health Hazard for Consumers" is a Kido public awareness campaign, supported by the World Society for the Protection of Animals (www.wspa International.org). For more information call (473) 443 7936 or e-mail kido-ywf@spiceisle.com.

The October 2010 issue of widely distributed Caribbean Compass published a two-page article by Kido Foundation:

'Sea Turtles and Their eggs: NO LONGER SAFE FOOD'

We received positive feedbacks from readers as far as China (from Sea Turtles 911 in Hainan Island) requesting to publish the article for educational purposes.

Sea Turtles and Sea Turtle Eggs are no longer safe food!

od, from polar to equatorial waters

Mercury-high fish (shark, sword-

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Health Hazards

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Sclerosis

concentrate / tremors / loss of bal-

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Multiple



Sea Turtles in the Marine Eco-system

(main diet for Leatherbacks) flesh, blood, organs and eggs. includes jellyfish, which devour

Greens, by feeding on sea grasses, species of small fish and crus- rents taceans. The decline of the Caribbean green turtles contributed to the die-off of sea grasses (which protect the coastline coastal fish (1).

Ocean life & pollution industries use Mercury for producticides, PVC pipes), yearly releasyard burning of garbage containing which, in contact with water toxic Methyl-mercury.

bodies poisoning it. High in the in tuna! (3) marine food-chain, migratory phins, whales and turtles end up tissue samples taken from nearly nia / digestive problems / food should be discouraged from con-

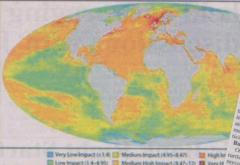
carrying very high concentrations of contaminants present in the ea Turtles play an important ocean, Methyl-mercury, cadmium role in the Marine Ecosystem POPs (Persistent Organic and our lives. Their diet Pollutants) and pesticides, in their

The Global Map of Human fish eggs and larvae (mostly yel- Impact on Marine Ecosystems low fin tuna). Therefore Sea (Science 15 February 2008) shows Turtles help control jellyfish popu- that the Caribbean Sea ranges from lations; yet relentless hunting and Medium to Very High impact in eggs poaching may drive this 100 terms of pollution and overfishmillion years old species to extinc- ing.(a mere 4% of the entire World tion in 10 years! The consequences Ocean is still healthy, unpolluted are clear: the demise of sea turtles and rich in biodiversity). Fish-eatcauses the loss of important ing migratory species (including amounts of fish species consumed birds) were found to be highly contaminated even in remote areas of Hawksbills, by feeding on the planet (2), demonstrating that sponges, clear space for the formalocation is no longer a factor of per million. (4) tion of new reef coral colonies. safety from pollution. Pollutants are everywhere, spread through the maintain them healthy, thus pro- food-chain process of sea and air viding vital shelter to hundreds of creatures, winds and ocean cur-

Connecting the dots of a larger picture

Since 2002, UWI and Wider DDT as high as 1,200 ppb! (5) from wave erosion thus stabilising Caribbean Sea Turtle Conservation beaches) and the disappearance of Network (WIDECAST), including Kido Foundation, have being applying ID tags to nesting and foraging turtles to monitor their Coal-burning and chlor-alkali migrations: some hawksbills nest- opment of unborn babies and ing and green foraging in our EC ing chlorine (used in plastics, pes- area travel far to the heavily polluted Gulf of Mexico and our nesting up to 6,000 tons of Mercury in ing leatherbacks travel as far as the air, land and water, ending up Nova Scotia. Canada and across in our oceans. Incinerators burning the Atlantic to Britain's coastal waste, including our popular back- waters. Tuna with high concentrations of Methyl-mercury, fished in plastics, also release Mercury, the US Pacific coast, have been contaminated by Asian coastal polorganisms, becomes the highly lution (ScienceDaily - 3/05/2009). In USA and Europe supermarkets, Small fish feed on tiny contami- labels on large fish packages warn nated organisms; larger fish feed consumers of possible health risks. on small fish and, being unable to The level of cadmium in Sea expel these contaminants through Turtles measures 3 times higher digestion, these remain in their and mercury 10 times higher than

High levels of cadmium, alu-(tuna, swordfish, marlin, sharks, titanium and mercury (as high as vision / slurred speech / headaches women of childbearing age, nursking mackerel, tilefish, etc), dol- 16 parts per million) were found in / muscle pain and twitches / insom- ing mothers and small children.



III Low Impact (1.4-4.95) III Medium High Impact (8.47-12) III Very H Imycob



1,000 whales over a five-year periallergies (2) (3) (6) (7).

Aphrodisiac or impaired sexual

function? Sea turtle products have been prescribed for centuries as remedies for anemia, asthma and respi-Allowable concentrations of the ratory problems and, in the banned pesticide DDT and its Caribbean, sea turtle eggs are trabreakdown products in food were ditionally consumed as an aphroby the World Health disiac by men hoping to boost their Organization and EU at no higher sexual performance. According to doctors, the opposite is true: the tles in the Atlantic showed concen- high concentrations of cholesterol trations of breakdown products of and pollutants in turtle eggs may impair sexual performance and very consumption that likely Medical researchers warn of the caused the embarrassing physical failure in the first place! (5).

Poisoning and Deaths

Cases of poisoning and deaths neuro-developmental diseases, (especially children) from eating sea turtle meat, organs, eggs and Deficit Disorder and autism. Other drinking its blood, are now reportserious risks for children and ed globally and reveal the seriousare neurotoxicity, kidney ness of the problem: in June 2010, in Thailand, THREE persons died Diseases and symptoms induced of food poisoning from ingesting by Mercury poisoning list: chronic Hawksbill turtle meat: a woman, fatigue / fibromyalgia / depression an 11-month-old boy breast-fed by / anxiety / obesity / dementia / his mom who had eaten the same Parkinson's disease / cancer / heart turtle meat, and a 60-year-old woman. Dozens of those who shared that turtle meat suffered Solomon Islands: 6 children died. Encephalopathy (non specific out of 28 people affected, within 5 brain malfunction) / inability to days of eating turtle meat (5).

Based on these mortality statis-

Feature

Cruelty Issue

Catching turtles is a practice involving severe cruelty: many turtles endure a long painful death by drowning when caught in nets (they need to breathe air at least every 20 minutes, they have lungs); they are dragged ashore on positions for days until sold! Turtles often endure further agony, being chopped to pieces under cutlass blows while still alive, their flippers severed off and their eggs lower fertility; namely, it is their taken from their wombs forced open by a rusty blade! Most turtles slaughtered are 60-70 years old or more!!! Turtles represent an irreplaceable link to the health of our oceans!! Their demise will be a loss for humans too.

Tumors affecting Sea Turtles

Turtles, who too suffer from the pollutants they ingest, increasingly develop Fibropapilloma: cancerous growths, which affect humans as well. On 21/03/07 in Carriacou. a mature Green turtle with a 4 inch thick Fibropapilloma bulging over her right eye was purchased alive by Kido Foundation at the fish market, thus preventing her contaminated meat from being sold to from food poisoning (8). In the the unsuspecting public. This turtle had several smaller tumors on her body. An inquiry among fishermen revealed that it was not the first sea turtle with Fibropapilloma to be species such as the largest fish minum, chromium, lead, silver, ance / impaired hearing / tunnel tics, the public, in particular caught and sold to the public in

Continued on page 05

Sea Turtles and Sea Turtle Eggs are no longer safe food!

In September 2010 a more extensive article was published by the Grenadian Voice

Interviews and Radio Programs

Tyrone Buckmire,
Kido Foundation director,
held two interviews
in Grenada with MTV
and WEE FM radio on
June 12 and July 6, 2010



Tyrone conducted three Q&A programs at two local radio stations in Carriacou: Kayak 106 FM & Sister Isles Radio in December 2010.

These radio programs had a wide audience in Carriacou & the Grenadines islands and the notion that sea turtles are no longer safe to eat became the 'talk of the town'. In several occasions we were told that fishermen were having a hard time selling turtles!

If the consumption of turtle meat and eggs decreases, out of caution and care for the health of children and mothers, there will be less incentives for fishers to set their nets for turtles.

More radio programs are scheduled in Grenada with Spice Capital Radio for a two-month period, as well as added media interviews

Power Point presentations are ongoing in the primary and secondary schools of Carriacou: children report home their clear understanding that it is not safe to eat turtle meat and eggs and show their parents Dr. Isaac's leaflet to

support their statements

Kido presentations also highlight that hunting turtles is a cruel practice inflicted on peaceful animals that play an important role in the marine ecosystem



In a fishing community it is necessary to communicate that sea turtles are essential for keeping healthy reefs & sea grass beds and that, due to the turtle-jellyfish-fish larval food chain, the massive decline of sea turtles also contributes to the rapid decline of ocean fisheries

Lessons learned (so far...)

- 1- Write (lobby) to the Ministry in charge...but do not expect an answer or an immediate action
- 2- Use local RADIOS to spread your message: IT WORKS!
- 3- Communicate your message to CHILDREN at school: they listen, understand and carry the message to their families and friends



- 4- Make sure your facts are supported by scientific evidence and are verifiable by your audience (Internet)
- 5- A locally respected professional (an MD in our case) supporting your findings adds credibility to your message

Lessons learned (so far...) 2

- 6- Listen to your audience, some of their questions may take you by surprise.
- A sample of questions and statements we received following the radio programs and when talking to people on the street:
- a) Sea turtles are not legally protected all year around in Grenada because they are not an endangered species in Grenada!
- b) If the turtles with tumors are released back to the sea, is this dangerous to humans? Will this cause more pollution in the sea? Should we kill them when we find them?
- c) If you inject a cancerous tissue of an animal to another one that has cancer, this one is cured!



Declaration of Interdependence

excerpts - David Suzuki Foundation

We humans are but one of thirty million species weaving the thin layer of life enveloping the world



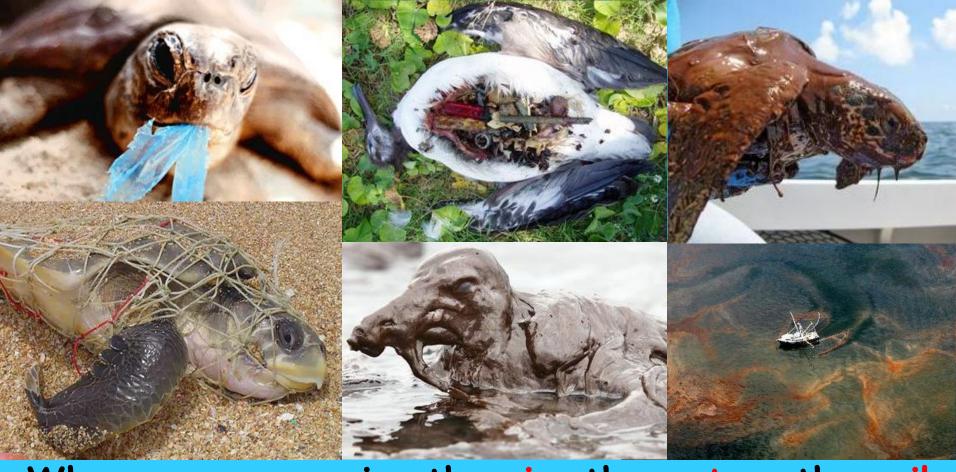
The stability of communities of living things depends upon this diversity

Linked in that web, we are interconnected—using, cleansing, sharing and replenishing the fundamental elements of life.



Our home, planet Earth, is finite; all life shares its resources and the energy from the sun, and therefore has limits to growth.

For the first time, we have touched those limits.



When we compromise the air, the water, the soil and the variety of life, we steal from the endless future to serve the fleeting present.

At this turning point in our relationship with Earth, we work for an evolution:

from dominance
to Partnership
from fragmentation
to Connection
from insecurity
to Interdependence



