



**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
**NATIONAL MARINE FISHERIES SERVICE**  
**Southwest Fisheries Center Honolulu Laboratory**  
**2570 Dole St. • Honolulu, Hawaii 96822-2396**

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Mr. Aliko Cooper  
Golden Courie Complex Ltd.  
P. O. Box 128  
Deuba, Fiji

Dear Mr. Cooper

Kitty Simonds of the WPRFMC has been kind enough to provide me with your current mailing address in Fiji.

I wanted to write to you about the occurrence of tumors, called fibropapillomas, in Hawaiian honu (green sea turtles, *Chelonia mydas*). As you may have heard, this tumor disease has now reached epidemic proportions in Hawaiian honu, as well as in other green sea turtles at several sites in Florida and elsewhere. The tumors can grow rapidly to massive sizes, often covering over the turtle's eyes, throat, and flippers. Every week we have one or more turtles dead or nearly dead, covered with tumors, washing ashore in Hawaii. The situation has continued to worsen each year for the past five years, especially in Kaneohe Bay and along the south shore of Molokai (Palau to Kawela). I have enclosed an assortment of articles about this serious disease phenomenon which I felt you would find interesting.

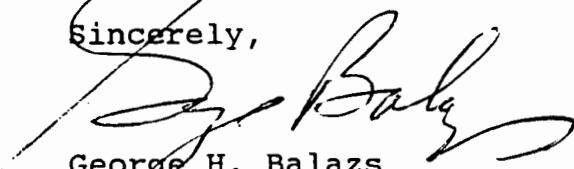
Based on historical records at the Smithsonian Institution in Washington DC, it is my understanding that you encountered and captured green sea turtles with tumors in Hawaii during the late 1960s. Your experience may be one of the earliest documentations we have for this disease in Hawaii. I believe you first started to capture turtles in the early 1950s. When and where was the first time you recall seeing a tumor on a turtle? What percentage of the turtles had this disease once you started to notice it? For example, at present 65% (79) of the 121 turtles we captured and tagged in Kaneohe Bay during 1989-90 had the disease.

I realize that in the past years we have had many differences of opinion on matters pertaining to Hawaiian honu. However, I feel certain that we share a common view in wanting these turtles to be healthy in all respects. Epidemic proportions of sick turtles can have serious negative impacts to the turtle population, and also may be indicative of some greater problem in the marine environment. I therefore am hoping that you will write to me at



your earliest opportunity to describe what you know of this disease from past years of catching turtles in Hawaii. Thank you very much for any assistance you can provide.

Sincerely,

  
George H. Balazs  
Zoologist

P.O. BOX ~~108~~ Box 123  
Complex Et DEUBA, FIJI Jan 2, 1991  
CC: Phone 450194  
Att. Balazs; FAX (679) 450434  
I want you to know that I have  
always been upset with you and W.M.F.S.  
for you always have and will continue to  
treat us Hawaiians as second class citizens.  
I don't think W.M.F.S has a Hawaiian  
population in Hawaii; Since we are 20% in  
population in Hawaii, you should have  
20% Hawaiians working for you - this  
shows how America treats us, as indigenous  
people - especially W.M.F.S -

You should know I still believe in our  
Hawaiian Gods, Kane, Ku, Lono, Kanaloa, and  
still pray to them, for these are my  
ancestral Gods. There are many of us who do.

When you stopped indigenous people from  
using turtle for their Religious Rights,  
that was out of line. Even under the  
Freedom of Religion act of 1978, you were  
out of line and still are.

When I left Hawaii in 1985, the  
turtle population was stable. They were  
enough turtles so three indigenous people  
could have had a few for their Religious Rights.  
You have no track record, you haven't the  
years of knowledge, methods, moon phases,  
time of year, seasons, and the hundreds  
of years of experience that I have, passed  
down from my ancestors.

My family had large acres in Fish po  
in Pearl Harbor. Before the war we

used turtles both for food and to keep some of our fish ponds free of grass, weeds, mangrove, etc. We never used the turtles caught in our konohiki from Pearl River to fort weaver, inside Pearl Harbor.

We caught our turtles, by the shark pen at Fort Kamchamaha and across the Pearl Harbor channel Fort Weaver. Every thing under 200 lbs was let go. We ate the males, the females usually used for weed control and to stock up the ponds. Every few years, while catching the well in the kapu season - Dec to March, we would let the turtles go and re-stock them with new turtles. their condition was good, fat.

I can remember prior to the war, 1939, 1940 we did catch a few turtles which had this strong cancer, as it was referred to then. My grandfather was a doctor, m.p. - He, at that time, said this was a type of strong cancer and not to eat them."

Dec. 1941 Japan bombed Pearl Harbor, our total property were taken from us, our fish ponds, homes, out the complex. We have never been paid for our Pearl River konohiki -

We moved to Hilo, Hawaii, where I lived most of the time and was the student of the strongest Kahuna Lapaau - , a man named Jack Wainaku. He was a police man and a Rosinerman, turtle Fisherman. We caught turtles from the break water to Punalu'u. I saw at turtles with strong cancer, caught by the Waikiki River, but not many I think two.

Spent about of '42 & '43 in Waipio Valley  
with my kaka, Sam Kaka Kua Hui. In those  
days at Waipio or Waimea, if you wanted a  
turtle, you could go to the right hand side of  
either Valley before dark, you could grab a turtle  
in waist deep water. the turtles there, small  
of Lepua Lani. They feed in the big steep areas.

In the beginning of summer I would ride from  
Waipio to Kawahae on my mule, sheep by the  
water hole where does Service Station is now. In Kawahae.  
Naluwaehini, the historian for King Kalakaua,  
would rule with me to Keahole up to Kauai.  
Turtle was part of our diet & used as with Jacks.  
Kaka Kua Hui for religious rights. I saw no  
strong current in the Kona & Kawahae waters.

When I returned from Guadalupe, the  
Solomons, New Hebrides, Noumea, were our  
head quarters <sup>was</sup>; Gilbert, the Philippines and  
Japan, as a diver for Gen. MacArthur. I  
finished College & Fished. I also was in the Korean war.

I fished all the Hawaiian Islands except  
Kauai, Niihau - I boated, sometimes eight to ten  
hours a day, I studied, I learned many  
turtle grounds. From 1945 to 1955, I  
probably caught more turtles than any living  
man in Hawaii. I never killed any turtle  
under 150 to 200 LBS. Often I caught up  
to 200 mature turtles in 3 to 4 days of  
fishing.

The turtle is like a dove, you <sup>should</sup> not  
catch him going to feed, but when he  
returns. the largest turtles come from  
Oahu, Molokai, Maui & Hawaii - Lanai has  
lots of small turtles. In Hawaia, the turtles

are few. the Leeward Islands have a fairly large breeding stock, but since the breed every two or 3 years, it is hard to determine the number of breeding females. they also breed in the main Hawaiian Island, or should I say bay.

I notice a continuous strong cancer growth since the mid 50's - in areas of fresh water bays - Kihew Lagoon, Kaneohe Bay, Kahului Harbor, Hilo Harbor. It seems after the sewer systems were taken out of use, this strong cancer increased greatly. I believe it is some kind of a pollution in heavy <sup>human</sup> populated areas, but what, I don't know. Kahului is very heavy in arsenic I have been sending this strong cancer growth to Germany, England, France, to my friend Tok Constant, the Smithsonian Inst. etc. I sent many samples to the Smithsonian Institute and under sea warfare, both were concerned. I did not fish turtle at sept for our religious rights, to eat from 1956 to 1965 -

In 1965 or 1966 I had a mullet study for Oceanic Institute, also the <sup>state</sup> shark contract for four years - a Rockefeller Foundation shark contract at Kauai has also.

Dr John Henrikson, Director of Oceanic Institute, heard from cousin Gilbert that I knew about turtles. John spent a lot of time with me working on turtles. It was obvious that the turtle problem had to be addressed.

We wrote a good project to catch and tag turtles in all the 8 main Hawaiian Islands, in the summer work the Leeward Islands, mainly French Friggit shoals - Due to the increase of the striking Cancer, we both felt this was good timing.

The main thing, with my past records and our five year tagging program, we could come up with proper numbers to Leaven what the population was, was it Endangered, etc was it stable, were was it.

You know what happened, W.M.F.S., reviewed it, we wrote our project, got a lot of money to run the crow's nest, tagged 5 turtles at French Friggit shoals and that was it. I have had several perfect skins and mounted.

I had all my back records, all the equipment, the boats, skiffs, nets etc, with John being the world #1 authority on turtles, we would have Leavened if the turtle was an Endangered animal in ~~Hawaii~~ the Hawaiian archipelago or not.

With the mickey mouse program you guys are running, who knows what is your base line, what is your track record ??? What is your credibility - ?

In Fiji, there have been two turtles found with Hawaiian tag on them.

One of the reasons I left Hawaii was due to the over number of leases,

continuous preoccupation toward my people,  
to see my people be used as second  
class citizens. It gets worse yearly -

Seeing W.M.S putting their standards  
on our people trying to take our Indigenous  
Rights away is ridiculous - for we have  
never been included in making any  
decision, never been asked, just told. You  
guys say I think, if, but where is your  
track record, what credibility do you have?

I feel if John Henderson and I  
had got funded and carried out our  
turtle project, you would have a strong  
base line, good credibility. But you have none.

It reminds me of the Native American  
Indigenous Right that at W.M.S. Prof Lepson  
and two other <sup>professors</sup> ~~professors~~ put together, it is  
~~represented~~, one sided, there is no way I can  
accept that negative report that is very, very  
one sided. Read it, what do you think?

I just saw a <sup>actual</sup> movie called Blood &  
Oil about a ~~actual~~ case of a navy  
officer who <sup>James</sup> another caused to be  
murdered, ~~stabbed~~ - you should take the time and  
see these videos, sit back, you'll be surprised  
if you realise what you are doing, maybe then  
you might understand our side. This

prejudice still exist. When I was 18 years, I was

a 12<sup>th</sup> grade educated, Higher Education  
IF you want to keep me posted on your

turtle situation, I would appreciate it.

Alonso de la Cruz Cuban,

P.S.: As I evaluate the situation, it seems that Kekaha Lagoon, Kauhale Harbor area, Hilo Harbor, and Kaneohe Bay are the places where the turtles are most affected.

I don't believe the Red Lime Fluorite Kaneohe Bay is the problem. For 200 years boats have come to our Islands with all kind of Lime on their hulls. Haven't found any Fluke, thought might be that dredged harbor might be the key, but Kawailane does not affect the turtles. So it is something in the Large population around the above harbors.

A water testing program should be set up in all harbors to learn what is different over a long period of time between the affected harbors and the others. Testing should be taken at 10<sup>th</sup> different locations and depths - where the turtle feed and sleep during the day, outlets of water into the harbors, etc.

I did all the water testing for years for Kennedy Engineering out of S.F. for the water pollution of all the mills and stream run off for the HSPa study, starting from about 1966 to 1968 or so. This was a confidential report, paid for by the H.S.P.A., so I'm not sure if you can get a copy. I have a copy, but since I left Hawaii my kids probably disposed of it. I think it was called water quality studies of the Steamer industry in Hawaii for HSPa - by Kennedy Engineering - San Francisco Calif.

We did all the harbors, including

Years

there were some places very high in arsenic. Kahului harbor, Hilo harbor, ~~half way between Lahaina~~ Olowalu half way to Lahaina on Maui - we tested every stream, every outlet of water, for years, up to 100 fathom off shore Hawaii X

the sugar plantations used a arsenic base spray to control weeds and grass in the sugar cane fields up to the early 1960 - over 100 years - it was called Venite a herbicide, that was <sup>discontinued</sup> ~~used~~ in the early 60s - Arsenic is a base that does not break down, it remains in the soil and eventually ends up in the ocean. there is also natural arsenic in the soil. the crab <sup>lobster</sup> seems to have a higher % of arsenic than fish, this is why our arsenic count is high, like Kahului & Hilo, many people get hives - when eating crab, lobster etc. the squid is high in arsenic - Also I point believe arsenic is a problem with the turtle, I think population, chemicals might be a part of it, what types are questionable -

I have never caught a turtle with the strong ~~cancer~~ cancer on Molokai, Lanai, Kahoohave, Kauai from to Waipio on Hawaii - the Lee word islands

internal sicknesses later I will address - we as Hawaiian use everything of the turtle except the head. Alika