The reason for m

By Don Chapman Advertiser Columnist

During the 33 years between fatal shark attacks in Hawaii, those who regularly spend time in the ocean developed a sort of blase attitude: Sure, there are a few sharks out there, but they're small and not really interested in me.

The death at Olowalu of Martha Morrell nearly six weeks

ago changed that.

As a single tragic incident, what happened at Olowalu might be seen as a statistical anomaly. But that attack, by what is believed to one or more large tiger sharks, wasn't the only recent close encounter of the worst kind.

A week before, on the other side of Maui, Steve Park was fishing at Maliko Point when a large wave pulled him into the sea. A strong swimmer, he was last seen treading water. His body was never recovered, but when his clothes washed up later, experts said evidence suggested a large shark had taken a bite from Park's left hip and shoulder. They also said it was unlikely the same shark could be responsible for both attacks.

After the Olowalu attack, state officials launched a shark hunt at the attack site.

Although John Naughton of the National Marine Fisheries Service estimates there are 206 tiger sharks in Maui waters, the state ended its hunt when a single 13-foot, 1,000-pound tiger shark was caught.

Last month, surfer and model Buzzy Kerbox passed along a tip about two water buddies who spotted a 12-foot tiger shark off Kaneohe Marine

Corps Air Station.

In June, the sighting of a seven-foot shark quickly emptied the water at Kailua Beach Park.

A 14-foot tiger was netted and killed at Waimea Bay on the North Shore. Another 14footer was netted at Kualoa, then set free by fishermen.

A pregnant 10-foot tiger shark was trapped at low tide on the reef at Kualoa, where locals waded out and splashed water on the shark to keep it alive until high tide.

in April, a large shark at-

The infamous Maili Shark, a foot, or an arm" in the words of surfer-diver John Earle, attacked a surfer earlier this year.

It certainly seems as if there are more sharks out there than in the past.

The culprits at Olowalu and



The head of a 13-foot tiger sharl state-sponsored hunt off Olowalu.

at Maliko Point are believed to be tiger sharks. But, says Leighton Taylor, the former director of the Waikiki Aquarium who has made a career of studying sharks, "great white sharks cannot be ruled out." Since 1892, 11 great whites have been positively identified in Hawaii. The smallest was a nine-footer, the largest at least a 15-footer.

Great whites remain very rare and tigers are the most common large shark in Hawaiian waters.

"I think the tiger shark population may be building up in Hawaii," says Jack Randall, senior ichthyologist at Bishop Museum.

"Quantitatively, it's hard to measure," says Taylor. "But there have been more sightings... It only takes a handful of big sharks such as great whites and tigers to make an impact."

If, as many suspect, there are more large sharks, the question is why?

Marine artist Robert Lyn Nelson and wife Uilani are among those who wonder if there are more sharks because there are more whales. Justborn calves and old or dying whales would provide the most likely targets.

"I've only seen sharks in the vicinity of whales three times in 15 years," says Paul Forestall, director of research for the Pacific Whale Foundation. "But just because you don't see them, it doesn't mean they're not there. I do know that last season we had wall-to-wall whales."

"I'd be real surprised if there

ore shark sightings? More sharks



Advertiser photo by Edwin Tanji

rk sits in a large bucket after a u, Maui, last year.

is any connection between tiger sharks and humpback whales," says Bruce Carlson, aquarium director. "But I guess there's a possibility that great whites could follow the humpbacks as they migrate from beeper, released and tracked. Alaska."

whales, are known to be a fa- finally rebounded from a state-

back in greater numbers, even while surfing off Lanikai in have no enemies." at Waikiki," says Arnold Su- 1958. zumoto of the Bishop Museum ichthyology department.

caught at Olowalu had a lob- peditions. ster in its stomach," says

reef species. They spend the Since then, the tiger sharks, population." day in deep water and then have slowly bounced back. The things."

the theory, raised by environmentalists, that driftnets and led the tiger shark hunting thus driving sharks closer to shore. But the feeding pattern described by Balazs discounts that theory, as does Taylor's study of a 14-foot tiger that he gram was disbanded. caught, tagged with a sonic

What the experts see is that Green sea turtles, unlike the tiger shark population has

"I've been diving since 1957," says Earle, a Hawaiian Airlines "Why not blame it on more captain, who often accompanies lobsters, too? The tiger they Randall on shark research ex-

George Balazs, National Marine lot of innocuous types, of numbers of the overall popula-Fisheries Service zoologist and sharks, like the sandbar shark. head of its marine turtle re- You'd see them on every dive. search program, as well as the After Billy Weaver, a very inguy who has recorded every tensive state fishing program people can co-habitate in most known shark attack in Hawaii. knocked the tiger shark popu-"As I've tried to explain, as a lation way down. There was a advocate of controlled fishing scientist, sharks are not 'at- blooming of small shark species tracted in to shore.' They are a that lasted into the 1970s. walu and Maili, to control the come to the reef at night to first thing they did was clean sensitive than we used to be, feed on a wide variety of out the smaller sharks. You almost never see a sandbar Scientists have also discussed shark now. But what's next?"

UH Professor Albert Tester long-line fishing have depleted program after Billy Weaver's deepwater fishing supplies, death and averaged three sharks caught per 100 hooks the past." set. Within a few years, he was catching one shark per 100

past 16 years:

"First, they haven't been than I used to."

vorite treat of tiger sharks. sponsored shark-fishing pro- fished. That amounts to de fac-"Both green sea turtles and gram launched after Billy to protection. Second, once hawksbill turtles are coming Weaver was killed by a tiger they get to 10 or 12 feet, they

Taylor says because tigers give birth to live young, and only a few at a time, and because they take about 10 years to mature and reproduce, "if you exert heavy fishing pres-"In the old days, you'd see a sure, it's possible to reduce the tion dramatically in a fairly short period."

> "I'm certain that sharks and places," says Earle. "But I'm an of some areas, places like Olo-

> "We're more environmentally says Linda McCreary, spokeswoman for the state Department of Land and Natural Resources. "We won't just go wipe out a whole species. I don't think there is much support for the way we did it in

DLNR Director William Paty says the state will continue to hooks set. By 1976, the pro- deal with attacks on a caseby-case basis. But he said: Balazs says two factors con- "Personally, I live on the tributed to the growth of the North Shore and try to swim tiger shark population over the several times a week. And I'm looking around a little more **DECEMBER 4, 1991**

Swimmers leery of sea in wake of shark death

by Jerome Kaiser

South Maui swimmers were sticking closer to shore or staying out of the water altogether in wake of the fatal shark attack off Olowalu last week.

Regulars of the Kamaole I "floating

society" - a group that enjoys the water there every morning - were back in for their regular swim less than 24 hours after the attack that took place up the coast off Olowalu.

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"I'll still swim here, but not there See SHARK on page 4

tot issues et live officient of the respect of the rest to be respected to the contract of the

Olowalu shark attack has swimmers jumpy in South Maui

SHARK from page 1

(Olowalu)," said Kihei resident Felice Leser. Members of the group said they were staying closer to shore, and were keeping alert. They had discussed an orderly exit from the water in case any sharks were spotted, but otherwise said the attack wouldn't deter them from their daily dip.

The attack that took the life of Olowalu resident Martha Morell was characterized as the rarest of events by a member of the Maui Fire Department rescue team that responded to the tragedy. And one marine expert familiar with shark attacks here said authorities are correct in trying to eliminate the shark responsible for the killing.

A large shark, thought to be a tiger, attacked Morell Nov. 26, killing her, an event reportedly seen by at least two witnesses. Capt. Conrad Ventura of the Fire Department rescue team called any shark attack here "rare."

"And a fatal attack is very rare. And even rarer than that is a fatal attack that has an eyewitness," Ventura said, a Fire Department veteran of almost 20 years who's been around the ocean all his life.

Morell was swimming in waters off her home in Olowalu with a companion when a neighbor heard Morell's friend call for help. The neighbor said he saw the attack and later saw the shark in the water after he launched a boat to help recover Morell's body. Morell's swimming companion not only witnessed the attack, but suffered abrasions trying -to fend it off, and was able to return to shore unhurt.

George Balazs, a marine biologist/ zoologist with the National Marine Fisheries who keeps records of shark incidents in Hawaii, would only agree with Ventura's description of a fatal shark attack that was witnessed as being rare.

"Most of the time we don't know exactly what happened to the victim, and can only guess," he said.

Balazs said he is first and foremost a zoologist and marine biologist, and does not consider himself an expert on shark behavior. But he said there is evidence to suggest that marine predators can be territorial, and dwell or return to where it has hunted successfully in the past.

He is familiar with the Olowalu area where the attack took place, and said he would not personally be interested in entering the water there for a good while, and suggested that authorities should seriously consider eliminating the shark responsible for the attack. Subsequent to that suggestion, authorities announced they were going shark hunting off Olowalu.

It was the first fatal shark attack on a swimmer/recreational ocean user recorded off Maui since 1828, though three fatalities involving sharks have been recorded since the first one recorded 164 years ago.

According to statistics Balazs has published, 16 injuries or deaths involving sharks have been recorded off Maui from 1828 to 1989, until Morell's death last week. In 1828 off Lahaina, in an event that was also witnessed, a man riding the surf was killed by a shark.

In a strict sense, he was the last swimmer/recreational ocean user fatally attacked off Maui until Morell. The other fatalities were a woman who was swept out to sea in 1909, whose body appeared to be devoured by a shark; a scuba diver who passed out at 180 feet diving for coral and whose body was devoured by sharks; and Avery Goo off of Waihee in 1988, who was lost at sea when the boat he was in capsized. Pieces of human internal organs believed to be from Goo were found later along the shoreline.

The only other fatal shark incident off Maui in Balazs' figures involved the contents of a shark's stomach caught off of Maalaea around 1943, which included "soldier's shorts and an arm."

Three shark attacks off Maui recorded from 1980 to 1989 all involved either boogie, sail or surf board riders, and all were non-fatal.

Maui, according to Balazs' records, was in 1976 off Kamaole Beach Park I, when a swimmer was bitten on the leg and foot by a shark.

In 1973, a swimmer was bitten on the leg off Kalama Beach, and a spearfisher received severe lacerations off Makena in 1960.

From 1779 until 1989, there were 36 known human fatalities involving sharks throughout Hawaii, and 83 incidents overall.

The figures showing 83 shark incidents, including 36 fatalities, break down along demographic lines, with Oahu leading in recorded incidents, Maui and the Big Island tied for second, followed by Kauai and then Molokai.

There has been a definite increase in shark incidents off Hawaii in the past 15 years or so, Balazs' figures show. Besides an increase of the human population in Hawaii, Balazs said he suspects part of the reason is the decline and virtual disappearance of commercial fishing for near-shore species like tiger sharks here.

He said that industry has declined since laws requiring all contents of food be named, including fish cakes, a principal ingredient of which used to be shark. Balazs also said that sharks can be overfished relatively quickly.

In the absence of fishing, he maintains, shark populations - and the size of sharks in the populations can be expected to grow.

"And the big sharks have to eat," he said.

A Direct M

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Environmental Update

List of shark attacks here shows they are infrequent

Most of Hawaii's wildlife is harmless, whether colorful for-est birds or reef fishes, but one of the fishes, while dangerous, has a reputation even worse than the truth.

It's the shark, that ancient

family of ocean scavengers.
With the latest version of the shark movie, "Jaws," in the movie houses, it's timely to look at the state of shark attacks in Hawaii.

George H. Balazs of the National Marine Fisheries Service in Honolulu has compiled an annotated list of Hawaii shark attacks, dating back to 1779.

There is inescapable human fear and fascination with sharks. The "Jaws" movie series thrives on these feelings. And while the descriptions of individual at-tacks in real life are frightening,

the broader perspective shows they don't happen with nearly the frequency one might expect. The Balazs list was compiled from old newspaper records, magazines, books, personal rec-ollections and other accounts. It may not be complete, particular-ly for earlier years, but it is probably the best information available.

Of the 70 cases Balazs was able to document since 1900, 30 have been fatalities.

Most Hawaii shark attack victims, while they may suffer serious injuries, survive the attacks. There are numerous cases of people bitten on the arm or leg who then were able to get to shore and get medical attention.

In the more complete recent data, Balazs said there have been 34 documented cases of shark attacks since 1960, or 1.26 per year. Thirteen of the attacks were fatal, or about one every

two years.

Balazs does not distinguish between victims actually killed in the shark attack and those drowning or other accident victims whose bodies were subject to shark predation after death. Thus, the actual number of fatalities caused by sharks may be

somewhat lower.

The State of Hawaii Data
Book provides some facts with
which to make comparisons with the Balazs information.

During the decade 1975-84, there were 15 shark attacks in Hawaii, six of them listed as fa-tal. During the same decade, 1,620 people died in traffic acci-

Using that information, you can make the claim that traffic is 270 times more dangerous than sharks to Hawaii residents.



Jan **TenBruggencate** Kauai Bureau

During that decade, more peo-

ple died of AIDS than of sharks, more died of hepatitis than from sharks and more died of tuberculosis than from sharks.

The first citation by Balazs is a 1779 case involving a surfer named Nuuanupaahu at Maliu on Hawaii. A shark bite gave him a gash on his buttocks. He died at Pololu.

There are few reports from the 1800s. Most of the cases from the early 1900s involve fishermen. A young man killed at Kalihi, Oahu, while crabbing in 1902. A man losing an arm while pulling fish out of a net at Kihei, Maui, in 1907. A man pulled under while gathering fish stunned by dynamite at Mana, Kauai, in 1908.

In recent years, surfers, sail-boarders, divers and recreational swimmers have joined anglers and opihi pickers as victims.



Monday, October 16, 1989

Shark perils divers trying to rescue body

By Christopher Neil Advertiser Staff Writer

terday found the body of a scu- er. ba diver reported missing off "Imagine how I felt," Young Kahe Point but could only said. "I didn't know what was tacked the corpse.

mukula Street in Waipahu, was I walked on water." reported missing Saturday. Young decided it was unsafe night by friends who said they to remain in the water as long surfaced about 400 yards away as the shark was there and from the Hawaiian Electric Co. had the helicopter come and power plant outflow and then pick them up. lost sight of their 32-year-old Young noticed about eight 10 p.m.

searching again at about 9 yes- swimmers were out of the waterday morning. Two Nanakuli ter, Young and a rescue squad firefighters began snorkeling boat returned to the area where the missing scuba diver where the shark was and white underbelly, that's all I was last seen. The fire rescue dropped a buoy. team sent out boats and a heli-

Firefighters Albert Fernanmountains during the recent there. But when they returned, rains, first found a speargun cocked but unfired - and a 11:15, almost two hours after animals and mosquito larvae scuba tank. Then they saw the Fernandez and Falconer first diver's body, wedged between sighted the body in the water. some rocks.

Fernandez said he was div- body were finally brought to ing down to get the body, "but shore. "There is no way we then I saw this shark come up could find out if he got into and it was big - maybe 10 or trouble and he died or if he in." he said. 15 feet - and big and thick so was initially attacked by we went back up again.

"It was going around us and under us and just watching," he said.

back-to-back for protection in nandez. held the loaded speargun at of shark it was that attacked the ready while Fernandez be- the diver's body. Young said ticopter on the shore. Then the cause of the outflow from the helicopter took off and hovered above the water where the two of the distinctive stripes that the saw none sand hark in a net Friday, ting this attack, Balazs said, above the water where the two of the distinctive stripes that the saw none sand hark in a net Friday, ting this attack, Balazs said, other sharks have been spotely and the left have been spotely attacks in Hawaii waters. Countries that the saw none said to the left have been spotely at the saw none said to the left have been spotely attacks in Hawaii waters. Countries that the saw none said to the left have been spotely attacks in Hawaii waters. Countries that the saw none said to the left have been spotely attacks in Hawaii waters. Countries that the saw none said to the left have been spotely attack at the saw none said to the left have been spotely attacks in Hawaii waters. Countries that the saw none said to the left have been spotely attacks in Hawaii waters. Countries that the saw none said to the left have been spotely attack at the left have been spotely attacks in Hawaii waters. Countries that the left have been spotely attack at the left have been spotely attacks at the firefighters were keeping a tiger sharks have. wary eye on the shark.

Acting Capt. Aaron Young of Rescue Squad II dropped from the helicopter into the water Fire Department divers yes- next to Fernandez and Falcon-

watch as a huge shark at- going on down there. I never thought I would be afraid of a The diver, Ray Mehl of Ku-shark, but when I saw this guy

companion. Fire rescue team people in a scuba diving class. searchers started looking for closer to shore and warned the missing man at about 6 them to get out of the water. p.m. Saturday but gave up at He also warned two divers by the HECO outflow.

The firefighters started After making sure all the

They watched as the shark thrashed around in the water.

the shark was gone. It was

WHat was left of the diver's

sharks," Young said.
Young added that the diver's friends have positively identi- die. The dead fish also attract in the past couple of years. I Falconer and Fernandez got trieved by Falconer and Fer-

the murky water. Falconer It was uncertain what kind gan waving a rescue buoy at ger shark sightings are comthe rescue squad and the heli- mon in the area, perhaps be-

"He was big, grey and had a the past week, he added.



This photo of a tiger shark was taken a few years ago.

hrashed around in the water. According to Lt. Teene Fro-When the shark came to the iseth of the Department of eral recent shark sightings.

"When it rains all the dead from the mountains are washed into the ocean," Froiseth said.

Froiseth said the larvae attract smaller fish and the Hawaiian Islands have been on smaller fish attract larger ones. the increase. "The whole food chain moves Balazs, with the federal Na-

canals and carry fresh water vice, said there have been "an fish to the ocean, where they extraordinary number of cases fied the dive equipment re- scavengers such as sharks, he don't think it's (just) better re-

The Waianae Army Recrebecause of shark sightings, an Maui, Molokai and Oahu. Army spokeswoman said.

ted at Nanakuli Beach Park in Marine researchers list any they do not make Hawaiian islands, there seem to be more

white underbelly, that's all I know. He was huge; I couldn't Shark attacks on the rise dez and Walter Falconer, surface. Young and the others Parks and Recreation's Water swimming in water made headed back to shore to get a Safety Division, the recent murky by the runoff from the police sharpshooter stationed rains may be the cause of sev-

By Barbara Hastings Advertiser Science Writer

azs says shark attacks in the shark attacks.

tional Oceanic and Atmospheric Additionally, the rains flood Administration's fisheries serporting.

There have been six attacks ational Center closed its beach this year alone, he said, three at Pokai Bay on Oct. 6, 7 and 8 on Kauai, and one each on

During the 1980s, Balazs said, And Froiseth said a camper there have been 22 shark at-

attack on a human, Balazs said

drowned first and then were gest local shark resident. It's attacked by the shark and Marine biologist George Bal- those who died directly of in Hawaii waters. Balazs said

> 1970s, Balazs said, there were past the wave action where 11 shark attacks and three people died.

Balazs has gathered a list of 78 shark attacks since 1900.

The 1980s decade holds the record at 22. The 1950s were second with 14 attacks, he said.

In most cases, it wasn't clear what type of shark was re-sponsible. The great white shark was implicated in some.

Great white sharks have been spotted here now and again since the turn of the century, according to reports, but waters their home.

The tiger shark is the bigalso one of the most prevalent they are abundant in waters During the decade of the just past the dropoff - just the water gets deep.

Even though there are lots of them, Balazs said, they are rarely seen by divers. "That's probably because they mainly feed at night or at transition times - sunset and sunrise."

Bruce Carlson of the Waikiki Aquarium said they tend to come closer to shore at night.

Balazs said his colleague, John Naughton of NOAA Fisheries, did research on shark habits and found that when there's a lot of fresh water and debris running into the ocean following big downpours on the tiger sharks around.