# THE PROPELLER



The propeller hangs from the air bag that lifted it off the bottom.

Compiled By: Dan Jensen

Based on information supplied by: Aruba Esso News Ray H. Burson Dr. Lee A. Dew Don Gray Dufi Kock Lago Colony web site Bill Moyer Stanley Norcom & THE DIVE TEAM IN ARUBA

All the proceeds from the sale of this book will be donated to the <u>SS</u> <u>Oranjestad Memorial Committee</u>, which is overseeing the construction of a monument in Aruba. This monument will incorporate the propeller taken from the lake tanker *SS Esso Oranjestad* and is to be dedicated to those civilians who lived and worked in Aruba and were connected with the production of vital gasoline needed for the war effort or the defense of the island and lost their lives as a result of enemy action during World War II. It is hoped that with this monument, those people and the tragedy of war will be remembered.

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# The Dive Team

#### The Dive Team in Aruba that retrieved the propeller consists of the following persons: Percy Sweetnam, Team Leader Dick de Bruin Rigo Hoencamp Toine van der Klooster Andre Loonstra Paulus Martijn

# Special Thanks

Special thanks to the following persons: Dufi Kock, for his help before and throughout this book, as well as his efforts toward a monument; Lad Mingus for suggestions; Toni Wilkinson for much needed editing; my dear wife Mary B. (BeBe); the helpful people at Lloyds in London; Anne Cowne, Jean Moreno and Kevin Norster for help with research on the *SS Esso Oranjestad* and the propeller's Lloyds Test stamp; my son Paul Jensen, for doing the cover design and my daughter Lise Bessant for reading over the manuscript before printing.

Of course, the Dive Team in Aruba. Had they not found and retrieved the propeller, this book and the monument would never have happened.

Photographs of the recovery have three sources, Dick de Bruin, Dufi Kock and Andre Loonstra. Other pictures came from my web site, <u>www.lago-colony.com</u>, to all those who contributed, thanks.

Dan Jensen

## Warning About Deep Dives

To salvage this propeller, the dive team, all of whom were more than just sport divers, had to work in 225 feet of water. This is not considered a safe diving depth and should not be undertaken without special equipment and training. To learn more about the dangers of deep diving, see the article; "A Few Things Your Sport Diving Instructor May Not Have Told You about Deeper Diving" by Larry "Harris" Taylor, Ph.D., Diving Safety Coordinator, University of Michigan, Ann Arbor, Michigan. A reprint of his article is found at the back of this booklet. It has been reprinted with the permission of the author.

# Map of Aruba



Shows the location of the *SS Esso Oranjestad*, where the propeller was removed, the Army base location in WW II, the location of where the un-exploded torpedo went on the beach, the intended location of the memorial and the airfield used by the Douglas A-20A aircraft. Hooiborg which was used as a reference point by the German submarine is also show.

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MISC. PHOTO: Conference on the dock. The air bag used for the lift can be seen rolled up on the dock to the left.



MISC. PHOTO: Percy on the dock

## Introduction

The first time I heard about the plans to salvage one of the propellers from the *SS Esso Oranjestad* was sometime early in February 2009, when an email arrived from a man in Aruba whom I did not know. It turned out to be Dick de Bruin. This is his email, in part.

Hi, I'm Dick de Bruin, I live with my wife and two children on Aruba and have work on the marine base SAVANETA since July 2007. In my spare time, I'm a dive instructor and dive a lot every where around Aruba. After several dives on the PEDERNALES (what is left of it) and the ANTILLA, my interest for the World War 2 on Aruba awakened. I was searching for a diver on Aruba, who had dived on the lake tanker "SS ORANJESTAD".

That could have been difficult, because the wreck lies in 225 ft deep water, but after 6 months I found a retired Aruban international commercial diver named Percy Sweetnam. He told me that he is the only man that had <u>really</u> dived on the "SS ORANJESTAD"

After surfing the web it brought me to your website. Percy and our dive team (Paul, Toine, Rigo and Dick) have dived several times now on the wreck of the torpedoed "ORANJESTAD" (February and March '09). Percy shot the first film ever of the wreck with Paul last week and it is awe-inspiring to see it is still in good condition after 67 years.

We all ready contacted Dufi Kock and "Mr. Lago" Henri Coffi on Aruba. We did not know them, but read about them on your website. You wrote in newsletter 12, that Dufi Kock was lobbying for a statue of memorial for all of the seaman and other persons who died during the World War II serving the war effort...

We are going to try to bring one of the two propellers to the surface this month and bring it to the harbor. We want to give it to the people of Aruba for using it as a memorial. Dufi Kock was very excited about the idea and will contact other people about it, who can mean something for our idea. On the next dives we will shoot some more films and do our job to bring the propeller to the surface. We hope that the sea will cooperate and that everything will be happening this month.

So it seemed Dick and others had already made the dive to the SS *Esso Oranjestad* and this group, made up of Arubans and Dutchmen under the leadership of Percy Sweetnam, was planning to attempt to retrieve one of the propellers from the ship. Dick pointed out that the ship was about a quarter mile off the reef, in what we used to refer to as the second drop off, and lying in 225 feet of water. I understood that

Percy Sweetnam was a commercial professional diver and I assumed that the other team members were not professional divers, but sport divers planning to do this on their own. I felt Percy Sweetnam had the professional skill to lead the team, but a group of non-professionals was another matter. I also wondered how, without a backer to pay for a lot of sophisticated equipment, they would manage. The undertaking was very dangerous. It was not until later that I learned that the other members of the team had extensive experience in deep dives. Even with their prior experience, it seemed to me to be a very risky and dangerous adventure.

The next I heard about the adventure was when I received photos from Dufi Kock in Aruba showing the team suiting up, loading equipment on a boat named *Torpedo*, and going out to raise the propeller. There were also photos of the team after they returned, as well as a photo of the propeller sitting on a sandy bottom in forty feet of water. The next day, Dufi sent me a link to YouTube; the Team had released a video of their first dive on the *SS Esso Oranjestad*, before attempting the lift. Things were beginning to happen very rapidly. Over the following week the propeller was moved from forty feet of water to the bay at Savaneta (about four miles down the coast) and put into position to be lifted onto land. The final lift was scheduled for the following Saturday, April 18, 2009 at 11 a.m., a week after the initial lift. A press release was issued in Aruba, announcing the lift and at the advertised time a crowd gathered to witness the historical event, including a brother of a crew member who was lost the night of the attack.

After getting the story and first photos from Dufi, I began to document the recovery on my web site: <u>www.lago-colony.com</u>. When the video of the actual lift was released on YouTube, I added links to the video from my web site.

Subsequent to the propeller being placed at Percy's house, I began to think about doing this book. This is the result of that thought process, a document in which I have tried to bring together all the pieces that make up the story. Older people who were in Aruba before and during World War II know the first part of the story; others, the ones who watched the propeller come ashore, know the middle, I hope with the sale of copies of this book there will be an end; the monument will be built and the story will be complete.

I start with the background and specifications on the SS Esso Oranjestad, the ship from which the propeller came. I move to the design specifications, size and armament of the German U-boat that the enemy sent to Aruba to destroy the refinery, sink ships and, under

those orders from German High Command, fired the torpedo that sank the SS Esso Oranjestad. There is also information about the U-boat's sole surviving crew member who, by sheer coincidence, brought the story to light after the war. Incorporated into the book is the state of readiness -- rather, I should say, the lack of readiness -- with regards to the defense of Aruba on the night of the attack. Woven into all this are the unbelievable events that unfolded on the night of the attack that saved the refinery. There is also a section with photos on the salvage team's efforts to bring the propeller to the surface as well as the backgrounds on all the members of the dive team; how the team managed the dive and, working on a shoestring, funding the venture out of their own pockets without the aid of financial backers, using standard SCUBA equipment, not special deep diving equipment, they managed to get the propeller ashore.

It is a story of situations which tip the balance of war and, on the part of the courageous dive team, a tale of determination, daring, planning and hard work, as well as some very good luck.

Finally, I touch on the proposed use of the propeller and the desire on behalf of the dive team and many others to make the propeller a lasting monument to those who died because of the events told here.

If you have purchased this book, you have helped make that monument a reality and we all thank you. If you have borrowed the book from a friend and wish to make a donation, there are addresses at the end of the book where you can send your check.

Because there was considerable risk in this venture and others may decide to dive the *Oranjestad* after reading this account, I have included an article at the end of the book written by Larry "Harris" Taylor, Ph.D. about diving deeper than 130 feet, entitled: "A Few Things Your Sport Diving Instructor May Not Have Told You about Deeper Diving". This is included to forewarn those sport divers who may attempt a dive on the *SS Esso Oranjestad*. This is not a sport dive and is very dangerous.

On behalf of myself and all those who are involved in this project I thank you and hope you enjoy the story.

PS: In the way of clarification Lago refinery in Aruba was owned by Standard Oil of New Jersey, known as Esso at that time, and Lago Colony was the foreign staff community. It was built, operated, manned and maintained by the Company. The community consisted of bachelor quarters, dining hall, family houses, accredited American elementary, middle and high schools, commissary, bowling alley, tennis courts and ball fields; membership clubs—small airplanes, golf, skeet, shooting range, yachts—boat and swimming docks and a large Esso Club, with movies, restaurants, dancing, bars, library and liquor sales. Services provided in the community consisted of barber shop, beauty shop, full service gas station, post office, hospital, dental office and police protection. There was also an American Legion Club for veterans after the war, a Junior Esso Club and a Youth Canteen as well as summer recreational programs for children.

Lago Colony went into decline as refinery downsized. During this period the Name Lago Colony was dropped and the local name, Seroe Colorado replaced it.





MISC. PHOTO: Andre Loonstra sitting in the boat

The SS Oranjestad was a twin-screw, shallow-draft, steam-driven oil tanker, also known as a lake tanker because she was designed and built for that specific purpose, to carry crude oil from the oil fields of Lake Maracaibo in Venezuela to the refinery in Aruba. This type of tanker drew 13 feet when fully loaded in order to allow it to pass over the shallow, continually shifting sandbars that blocked the entrance to the lake. This particular ship was built by Harland & Wolff, Ltd., shipbuilders, in their Belfast shipyard in Ireland and was launched in September 1927. She was manned by a crew of 26, a gross weight of 2,396 tons, 305.7 feet in length and a beam of 50.2 feet. She would carry 2,396 tons of crude oil or about 17,565 barrels, equal to 737,632 gallons.

As with all the original lake tankers, the SS Oranjestad was owned and operated by Lago Shipping Co., a subsidiary of Andrew Weir and Co. Ltd. of London, operating under a contract with Lago Oil and Transport Co. Ltd., a subsidiary of Standard Oil of New Jersey, to haul crude oil from Lake Maracaibo to Aruba. All officers on these early lake tankers were British Merchant Marine, primarily from Ireland and Scotland. The crew was made up of native West Indians recruited from the various islands. A large proportion of these crewmen were from Curacao, Bonaire, Saba and the British Caribbean islands. After being launched in 1927, SS Oranjestad crossed the Atlantic and began making the run between Venezuela and Aruba, carrying crude on each trip from Lake Maracaibo and returning under ballast for another load. She made approximately two trips a week depending on weather and availability of dock space. Each lake tanker took a little less than four days to make a round trip between Aruba and Lake Maracaibo. The actual trip from San Nicholaas harbor to the entrance of the lake took fifteen hours, but ships could not enter Lake Maracaibo after dark because, in those days, there were no navigational lights marking the entrance. When they returned to Aruba, they could not enter San Nicholaas harbor after dark because, again, there were no lights in this harbor to aid navigation.

To get an idea of the challenge facing these early lake tanker captains, I reprint a description of going into and out of Lake Maracaibo across the bar, written by Lake Tanker Captain F. C. Alexander.

"The Fairway Buoy to the seaward side of the bar was the only lighted one. When a master got his ship to its vicinity in the small hours of the morning, he usually had to maneuver around, invariably in a N.E. gale with a heavy sea running and with his ship in ballast, waiting for the first glimmer of dawn and sight of the leading mark poles set up on the sandy shore to guide him over the outer bar. It was a weird and nerve-wracking experience going over the outer bar at the break of dawn until one got used to it. With a heavy following sea in the shallow water the breakers stretched for miles, and were as high sometimes as the rollers in a Western Ocean gale. In going over the bar it was nothing less than full speed, heading for the beach with a heavy surf just a matter of four or five hundred yards away and trying to hold the ship on mark. If the master got off the mark, he "had it"."

"With a depth of water of only about 12 feet, in a heavy sea, the bumps were frequent and pooping was not uncommon. (For you landlubbers; pooping is a nautical term, that means: To take seas over the stern of the ship) On a rough morning it was not infrequent for most of the crew to be on deck and I can remember one morning when we pooped a big sea to hear wild yells from aft and glimpsed an avalanche of water coming through the port and starboard alleyways aft in which were submerged, men, dogs, deck chairs, pots and pans and ship's gear."

"A right angle turn to the east was made just before the ship hit the beach, which brought her into the buoyed channel, where one had to contend with traffic rolling and abnormal leeway with a weather beach just a ship's length away. Coming out with a loaded ship was a nightmare, for the maximum loaded draft then was 9 feet. Never was tide tables studied so carefully or height of tide problems so studiously worked out to the inch. It was usual to allow for 18 inches under the keel, an extra inch in draft represented a few more barrels of oil out of the lake, and this despite the fact that heavy seas might be encountered going out over the outer bar. The vessels just bumped their way out with never any apparent bottom damage. If a ship ran ashore, the pilots, splendid chaps all, invariably gave up in disgust and let it to the master to get the ship afloat again as quickly as possible. If he took a couple of hours to do this he would lose the high tide at the outer bar and be hours late in arriving in San Nicholaas, a little matter Captain Rodger did not appreciate if it happened too often." (Captain Rodger was the man in charge of the lake tanker fleet)

When the *Oranjestad* began her service, Aruba did not have a refinery. In those days crude was transported to the island, placed in storage tanks and then transshipped in larger tankers to refineries, primarily in the United States, where it was refined into asphalt, Bunker C, heating oil, kerosene, diesel fuel, and grades of gasoline in use at that time. It was not until 1928 that construction on the Aruba refinery started and over a year later before production began with very small runs. As the refinery expanded, so did production and by 1932, throughput increased to 100,000 barrels/day and by 1942, 228,000 barrels/day. This required a lot of additional lake tankers to feed the refinery.

The primary reason for Lago's refinery expansion arose in the mid 1930's when Standard Oil and Great Britain signed a contract for Esso to supply the British Air Force with high-octane gasoline for their new fighters with high-compression engines. The contract specified that this gasoline could not be produced in the United States because Churchill realized the isolationist U.S. could place an embargo on gasoline in the event of war. Thus, Aruba became the location to produce the high octane gasoline.

As the refinery expanded to fulfill this contract the fleet of lake tankers grew and were still built, owned and operated by Andrew Weir and Co. Ltd of London. However, in 1938, Esso decided to purchase the fleet from Weir and operate the ships themselves. With the transfer of ships to Esso, officers were placed on the dollar payroll and crewmen on the local Aruba payroll which used the Dutch Guilder. The ships were British registry; they were re-registered in Panama and repainted to the Esso colors, a white superstructure, black hull and Esso logo on the smokestack. The names used by Andrew Weir for the ships remained the same except preceded by Esso. Thus, the *SS Oranjestad* became the *SS Esso Oranjestad*. Although the names were officially changed, the officers, crew and general public continued to refer to the ships by their Weir names.

Lake Tanker SS *Esso Oranjestad* continued in this service until 1942 when, in the early hours of February 16, while the little ships lay at anchor off the coast of Aruba, they were attacked by a German U-boat. First *SS Esso Pedernales*, under the command of Captain Herbert McCall, was torpedoed and then within minutes *SS Esso Oranjestad* was also hit by a torpedo fired by the same U-boat. The *SS Esso Pedernales* burned and some of the 26 men who made up the lake tanker's crew lost their lives, but she did not sink. Such was not the fate of the *Oranjestad*. After being torpedoed, she burned for about an hour and then sank in 225 feet of water 400 yards off the reef where she was anchored. This is the same reef that protected the lagoon east of the refinery. Fourteen of her crew lost their lives that night.

The U-boat's log shows that the attack occurred on February 16, 1942 at 01:22 hours, Aruba time; while most of the crew members were asleep in their bunks. (You will note that the U-156 log at the end of this story was kept in Greenwich Mean Time.)

When the *Pedernales* burst into flames, the second officer of the Oranjestad, who was on watch, informed Captain Herbert Morgan that the *Pedernales* was burning. Captain Morgan gave the order to weigh

anchor and get under way; he then proceeded to get dressed and don his life vest. Two minutes later and before the Oranjestad could make way, she was hit by a torpedo and, being loaded with crude oil, burst into flames. The torpedo hit between mid-ship and the aft separating the officers, who were housed mid-ship, from the crew, housed aft. The torpedo rocked the ship and threw men to the deck, breaking bones and causing other injuries. Despite the flames burning their skin and their broken bones, officers and some crew were able to reach the bow of the ship; others made it aft where they waited, all helpless to save the ship. As the ship sank beneath the surface, all hands on deck were washed into the sea. All were wearing life vests except the second mate: he did not have time to don his vest. He was washed overboard with the others, but in the dark, men were separated and he was lost. Fourteen members of the crew lost their lives. By daybreak Dutch patrol boats were out looking for survivors and ten were found floating in the oily water and taken back to Aruba; many had burns and other injuries that required they be taken to the Lago Hospital.

Captain Morgan had joined Lago Shipping sometime in the early 1930's and served as the First Mate aboard the *SS Invercaibo*, one of the original lake tankers to bring crude to Aruba. In 1935 he was sent to Kiel, Germany, where the *SS Andino*, another lake tanker ordered by Lago, was being built. He was present for the launch and commission of that lake tanker and was part of the crew that put the ship through her shake-down cruise before taking her to Aruba. By the time the *SS Andino* was built, the Nazis had come to power in Germany and the swastika was flying from all the flagpoles in the dockyard. Now, as the skipper of the *SS Esso Oranjestad*, he was being attacked by a submarine flying that same swastika.

This attack had been planned in Germany with the intention of destroying the refinery and the small, shallow draft tankers that fed it. Germany realized that without tankers, the refinery would have no raw material to process, nor could the raw material be transported to other operational refineries. They also realized that the high-octane gasoline produced in Aruba was critical to the air war fought over England. Because this gasoline was a higher octane than the Germans produced, Spitfires and other planes of the Royal Air Force were defeating the much larger Luftwaffe. This high-octane gasoline, which gave the British aircraft more power and speed, was allowing Britain to rule the skies. Germany wanted to stop the flow of this "super" gasoline and thus turn tables on the British. With this objective, Operation Neuland, a U-boat task force, was assembled and sent to the Caribbean for the sole purpose of destroying refineries and disrupting crude delivery. U-Boats were outfitted with special deck cannons in

order to shell and destroy refineries. The plan was that when the refineries were destroyed, submarines would submerge and torpedo the ships that supplied refineries. The German High Command based these orders knowing the lake tankers carried no armament with which to strike back against the subs while they shelled the refineries.

U-156 was part of Operation Neuland and assigned to Aruba.

A.G. Weser of Bremen, Germany, started building U-156 on October 11, 1940 and launched her on May 21, 1941. On September 4, 1941 under the command of Captain Werner Hartenstein she was commissioned. A type ISC Long Range Attack Boat that carried a crew of 53, she was 252 feet long, with a beam of 22 feet and drew 15 feet of water when running on the surface. From keel to the top of her conning tower the distance was 31 feet. Her top speed on the surface was 18.3 knots, powered by a 4,400-horsepower diesel engine. Submerged she had a top speed of 7.3 knots using a 1,000horsepower electric motor. Range was 11,000 nautical miles at 12 knots on the surface and submerged she could run 63 nautical miles at 4 knots before having to surface to charge her lead batteries. For armament she carried 25 torpedoes. Six of these were carried in the Uboat's tubes ready for firing. Nine were stowed under bunks, and ten were in watertight compartments available only from deck when the boat was on the surface. In addition to the torpedoes, the boat had a 105-mm deck cannon that fired 51-pound projectiles. These were high explosive and/or armor piercing. This cannon was loaded by hand and thus could fire as fast as the crew could load. The range the projectile could be fired was 16,787 yards or 9.5 miles. In addition to the deck cannon the boat carried a 37-mm cannon on deck which fired a 1.6 pound round with a high-explosive head. It fired automatically at a rate of 50 shots per minute. The range was about the same as the 105-mm cannon. In addition to the two cannons, the boat was fitted with a 20mm anti-aircraft gun which fired a projectile only .71 of a pound in weight at a rate of between 220 and 480 rounds per minute. The range of these small projectiles was 13,500 yards or 7.6 miles.

Prior to her patrol to Aruba U-156 was in the sub pens in Lorient, France, where she was loaded with torpedoes, fuel, food and tropical uniforms to make ready for the Atlantic crossing. On January 19, 1942, the boat left its French harbor and headed east and south; only the captain knew they were to attack and shell the Lago refinery. On February 13, three days before reaching Aruba, Captain Hartenstein received a coded radio message from German High Command rescinding the first orders he had received at sailing. The new orders read:

#### The principal assignment is to first attack shipping targets. If attacks on shipping were successful, the U-Boat should commence an artillery attack against the refinery.

Under these new orders, Captain Hartenstein brought the war to Aruba. After torpedoing two lake tankers, the *SS Esso Pedernales* and *SS Esso Oranjestad*, U-156 surfaced three quarters of a mile off the coast, directly in front of the Lago refinery. The refinery was operating under normal conditions; no one suspected a German U-boat attack. (The following day Aruba began to observe total blackout and did so for the remainder of the war.) The captain, officers and crew of U-156 were ecstatic; they had made two successful kills with torpedoes and now, thanks to the powerful 105-mm deck cannon and its well-trained gun crew, the refinery would soon be in flames.

The submarine broke the surface of the calm Caribbean and with decks still awash, hatches were opened and excited Gunnery Officer Lt. Dietrich von dem Borne and his willing crew scrambled to load the cannon. Lt. Dietrich von dem Borne gave the order to FIRE!

As soon as the gunner pulled the cord to activate the firing mechanism, the cannon exploded, killing the gunner and throwing Lt. von dem Borne against the conning tower, his foot and ankle shredded by shrapnel. In its excitement to shell the refinery, the gun crew had failed to remove the plug from the end of the cannon's muzzle. This plug was a watertight fitting that prevented seawater from entering the bore when the sub submerged. When struck by the 51 pound exploding shell, the shell detonated, blowing apart the end of the heavy steel barrel. Without a deck cannon, there could be no refinery attack. The sub did fire some 20-mm anti-aircraft shells at the refinery but they bounced off storage tanks, doing little damage. One 20-mm shell hit a bachelor quarter but no one was hurt. Some landed in the yards of people living behind the refinery, but again no one was hit and no damage done. The dead gunner and wounded officer were taken below, the submarine submerged and continued to the west end of the island. There they found an empty tanker, the Arkansas, tied up to the Shell refinery pier. They fired four torpedoes; two went out to sea, one struck the Arkansas, causing little damage to the empty ship and the fourth torpedo strayed onto Eagle Beach. The following day, Dutch Marines tried to disarm the live torpedo, but it exploded, killing the four men.

The captain felt they had done enough damage for one night; he was worried about a counterattack and he had a wounded officer in need of medical attention. The pharmacist's mate managed to stop the bleeding, but there was nothing else he could do. Captain Hartenstein radioed Germany for permission to take the wounded man to Martinique, then under the control of the Vichy French. Permission given, U-156 left the area and traveled northeast. On February 21, Lt. von dem Borne was placed in a French naval hospital in Martinique where his foot was amputated. The submarine left Martinique for a return trip to Germany, most of its torpedoes having been fired and the deck gun thought to be useless until the captain examined the cannon and decided to have the ruined portion of the muzzle removed. Using only a hacksaw the cannon was shortened and with this modified weapon U-156 attacked a British ship on the 27th of February. The cannon functioned and U-156 was able to sink the 2,498-ton British vessel, *Macgregor.* As for Lt. Von dem Borne, he recovered and remained in Martinique for the duration of the war. Repatriated at war's end, he found work in an Esso service station as an attendant.

When U-156 reached home, the boat's log was turned over to the German Naval Authorities, repairs made and again loaded with torpedoes, fuel and supplies she returned to the Caribbean. In her short career the sub managed to complete a total of five patrols, sinking 20 ships, for a total of 97,504 tons, including the *SS Oranjestad*. She damaged three ships with a total of 18,811 tons and damaged one warship of 1,190 tons. On her last patrol, on March 8, 1943, she was running on the surface just east of Barbados when sighted by a US Catalina flying boat (VP-53/P-1). The flying boat dropped three depth charges. Two were direct hits. The boat broke in half and sank. All 53 hands were lost.

Another interesting aspect regarding the day of the attack was the state of readiness for the defense of Aruba. On that particular day Aruba was defenseless. Three days prior the Scots had left, the Americans arrived and as yet no gun emplacements had been built.

Aruba was a Dutch island and at the outbreak of World War II law and order was maintained by a police force made up of Dutchmen from Holland; there was only a small military presence on the island. On May 10, 1940, Holland was invaded by Germany and the Dutch Queen, Wilhelmina, managed to escape to England, where she set up a government in exile in London. With the Germans occupying Holland, the English began to worry about the possibility of Germany invading Aruba and cutting off their supply of high-octane gasoline from the Lago refinery. The British, with the approval of Queen Wilhelmina, decided to send British troops to defend Aruba. On September 3, 1940, troops of the 4th Battalion, The Queen's Own Cameron Highlanders, arrived in Aruba to defend the island although they lacked any armament other than rifles. They set up camp in Savaneta and stayed in Aruba until the United States entered the war in 1941. With the U. S. entry, it was decided that America, after they had trained troops, would take over defense of the island and the Cameron Highlanders would return home. The training of new troops took time and details of the rotation had to be negotiated, so it was not until February 13, 1942 that the 252nd and the 498<sup>th</sup> Coastal Artillery, consisting of 40 officers and some 800 men, arrived in Aruba. They moved into the camp at Saveneta vacated by the departing Scots. In addition the 12th Bombardment Squadron and the 32nd Fighter Squadron were assigned to the island, carried the Cameron Highlanders off the island for their trip back to Britain, via New York.

When the troop transport brought the men it was accompanied by an American military supply ship, the Major General Henry Gibbons, bringing equipment, supplies, heavy armament and 3,000 tons of ammunition for the American troops. The transport ship left with the Scottish troops the same day it arrived, but the supply ship was still in San Nicholaas harbor as she had only just been unloaded. Most of the munitions were still on the dock the morning of the U-boat attack. The Americans had three Douglas A-20A light bombers stationed on the island at the time of the attack and these planes were the only defenses available. The A-20A's were not submarine hunters and not equipped for anti-submarine warfare; they carried no depth charges and were not fitted with radar. Furthermore, the Dakota airfield was gravel and there were no lights. Nonetheless, about an hour after the attack, one of the A-20A's managed to take off, followed by the other two in one-hour intervals. One of the planes dropped a flare in the vicinity of where they thought the submarine may have been.

Since they were not long-range aircraft they could not remain airborne until daylight and were thus forced to land in Venezuela. The landing of military aircraft on Venezuelan soil caused some political turmoil between the United States and Venezuela as Venezuela was neutral and required twenty-four hours notice of any military airplane's arrival. There had not been sufficient time to honor that protocol.

As there was no attack on the refinery by the submarine, the Army credited the A-20A aircraft with scaring off the submarine.

After the attack there was much speculation in Aruba about what prompted the attack. The general feeling was the Germans had been told of the Americans' arrival and the submarine's intended mission had been to torpedo the troop transport; but because they were misinformed about the arrival date, the submarine arrived three days late. Realizing they had missed the troop transport, they torpedoed the lake tankers and left. This speculation caused rumors to circulate about German spies being present in Aruba. This remained the reason given for the attack until long after the war was over.

After the war an employee of Lago refinery was on vacation in Holland. His car had been loaded onboard the tanker that took him and his family to Holland. While in Holland, the family drove into Germany and in a German gas station, an attendant saw the Aruba license plate and remarked, "Aruba, that is where I lost my foot." Hearing this, the Lago employee questioned the attendant, who turned out to be Lt. von dem Borne who told his story of the exploding cannon, being dropped off at Martinique, having his foot amputated and spending the remainder of the war there. The mystery about the attack was solved!

When the employee returned to Aruba and related the story to Lago's management, they in turn had Esso management in New York contact the British Admiralty, as they had taken possession of captured German U-boat logs after the war. The log of the patrol to Aruba was found and the story told by von dem Borne confirmed.

At the time of the attack on Aruba, other U-boats were engaged in attacks on other lake tankers and ships in the area. That same night, Lago tankers *San Nicholaas* and *Tia Juana* were both attacked off the coast of Venezuela and sent to the bottom of the sea with loss of life.

This sinking of four lake tankers caused the Lago refinery to cut production, a decrease of 125,000 barrels of crude a day. This loss of production continued for the rest of 1942 until new lake tankers could be built. By 1943, seven new lake tankers had been built in the United States and were put in service in Aruba. With these new ships, production was again up to 225,000 barrels/day and by 1945 production reached 300,000 barrels/day. During the entire war years, 1940 to 1945, Lago continued to operate around the clock; vacations were suspended and the refinery operated without the benefit of any downtime for maintenance on any of the units.

During World War II the Lago refinery produced 26 percent of the total oil production for Standard Oil of New Jersey. The shipping tonnage out of San Nicholaas harbor was greater than the wartime tonnage shipped out of New York harbor. But unlike the New York harbor, which shipped all and every type of material, the San Nicholaas harbor shipped only finished petroleum products. Based on Lago's wartime production and its significant contribution to the war effort, had U-156 been completely successful and carried out all the orders to destroy the Aruba refinery, the outcome of World War II may well have been different.

The Germans may not have destroyed the Lago refinery, but the war did. In order to keep crude flowing at a maximum during the war, Standard Oil and the Venezuelan government reached an agreement that doomed the Aruba refinery. Venezuela would continue to provide crude oil for the refinery, at peak capacity for the duration of the war, but after the war, Standard Oil agreed to build new refineries in Venezuela in order to provide much-needed employment for the Venezuelan population. The Lago refinery continued to operate after 1945, but over the years production fell as new refineries were built in Venezuela and less crude was exported to Aruba for refining.

In 1985 Standard Oil closed the Lago refinery; there was a glut of refining capacity in the world and the refinery was no longer profitable. The refinery remained closed for about eight years and then was purchased by Coastal Petroleum. Coastal has since sold the refinery and it is now owned and operated by Valero Energy Corporation, headquartered in San Antonio, Texas. This refinery, located on the south shore of the east end of the island and away from the tourist area, is not nearly as large as it was during World War II.

During all this time, the SS Esso Oranjestad sat on the bottom of the sea, a forgotten relic of a bygone time.





MISC. PHOTO: Captain Herbert McCall, in command of the *Pedernales* the night she was torpedoed. He also commanded the ship on her trip to Baltimore, Maryland for repair. Now the story jumps forward to the year 2009.

The position where the *Oranjestad* sank was well documented, both by the skipper of the German U-boat as well as the captain of the *Oranjestad*. It was 12.25N, 69.55W, so finding the ship was not a problem; however the depth of the water, the strong current and normally choppy seas, was.

Over the years, Percy Sweetnam, a professional and certified diver, dove to that depth and had seen the *Oranjestad*. When persons who frequented Andre Loonstra's dive shop began talking about diving on the *Oranjestad*, they sought out Percy because he had made the descent in the past. On the first dive, Percy, who was appointed team leader, took the team consisting of Dick de Bruin, Rigo Hoenkamp, Toine van den Klooster, Andre Loonstra and Paulus Martijn, to the ship. On this dive it was Dick de Bruin who noticed that the propeller was broken free from the shaft on the port (left) side and no longer attached to the shaft. How this had happened was anyone's guess at this point, but because it was free, it could possibly be lifted off the bottom.

After that dive the group met in Andre Loonstra's shop, and Dick mentioned that he thought the propeller had broken free of the shaft. This turned the discussion to how they could possibly recover the propeller and bring it ashore. This brought up the problems they would encounter and how they could be overcome. This was to be no easy task and they all knew it. They were not professional divers; they did not have sophisticated equipment at their disposal, unlimited resources or a sponsor. What they did have was a lot of determination. As they discussed the feasibility of raising the propeller, it seemed they found more and more problems that had to be overcome. But with time and ingenuity, they solved them all.

The questions included: What would they use to lift the propeller? How long, at that great depth, without special equipment, would they be able to remain on the bottom? How long would they need to decompress in order to safely return to the surface? These and numerous other unknowns had to be answered before they could undertake the task.

It was decided that air bags were the only feasible means to raise the propeller. Then the question was how many would be needed and what size? How much did the propeller weigh? No one knew for sure.

Where could these air bags be obtained and how much would they cost? And who would pay for the air bags? In the end, the entire expense of lifting the propeller was absorbed by the members of the dive group. Some of the material and equipment used in the recovery was donated, but most was supplied by the team members themselves.

As all these questions were being asked, someone asked; "What do we do with the propeller when we get it ashore?"

That question prompted them to think about a monument to all the men who had died on the SS Esso Oranjestad, which brought up all the other persons who had died bringing crude oil to Aruba during World War II as well as those who had died defending the island. They decided that the propeller should be the focus for a monument. A monument to: *"Those who died serving in Aruba in World War II."* 

Andre Loonstra, one of the members of the dive team, had something to say about the dive. He was answering a question asked by another SCUBA diver, someone who lives in the U.S. and had emailed Andre with questions about the dive. Here is what Andre wrote:

I am the guy that emailed you earlier about the salvage. I will try to answer your questions. First of all, the prop was already loose. If you look closely at the video you can see it leaning against the end of the shaft. We first assumed it broke off when the ship hit the bottom, but when you look at the video you can see that the shaft and support struts are not bent, so I believe someone cut it off, and never did the actual salvage. Lucky for us. Once we have the prop on land we will examine the break to see what happened. Percy dived the wreck many times over the years, but it was Dick who noticed the propeller was not attached to the shaft. Percy, Dick and I were talking about the dive at my dive shop when Dick mentioned it. It was at that point that we came up with the idea to bring the prop up and donate it for a memorial. As for the diving, the team did a total of 14 dives on air using regular scuba equipment with redundant setups. (Double tanks and regulators with safety bottles at 20 feet.) Most of the dives were 15-18 minutes from beginning of descent to beginning of ascent. With an average total deco times of 75 minutes, I actually only went on one dive on the wreck to 200 ft for 15 minutes and decompressed as per my dive computers recommendations for 2 minutes at 40 ft, 4 minutes at 30 ft, 8 minutes at 20 ft and 24 minutes at 10 feet for a total dive time of 58 minutes when you add the ascent times. I actually could have come up much faster because I used a 50% Nitrox mix for decompressing, but I still used the air deco times for a big safety factor. The new dive computers are great, because they figure all the stops out for you, but at those depths we still had the dive plan on a slate in case the computer fails. The dives were

extremely demanding, with high danger factors. We are very proud to have pulled this off with no incidents. The team barely knew each other before the project; we ended up working together like a well oiled machine, and are now good friends with a special bond. This was one of these things that you do on a lark but it was a once in a lifetime adventure that you never forget."

After the propeller was on land Andre again wrote to the fellow SCUBA diver in the States saying this about the broken shaft:

"We took a quick look at the shaft piece inside the prop, and it looks like it broke, or corroded off. It actually looks like the shaft might have been made of steel with a cover or layer of Stainless steel. I took some pictures (of the shaft) that I have tried to attach, but it won't let me send them (too big). I will try to have my wife send them from her computer."

Now that the propeller is on land, additional funding, selecting a site for the monument, and obtaining government approval will begin. Then design and construction of the monument can commence. There are challenges facing the team, but as they have shown already that they are resourceful and determined.

It will probably be some time before there is an unveiling of the monument. In the first phase of this operation (the raising of the propeller) they had only themselves to deal with. Now they have to involve many others and this may slow the schedule. I am convinced they will take the project to completion and one day when you drive to Baby Beach you will see the propeller incorporated into a beautiful monument dedicated to those who sacrificed all during World War II.





Douglas A 20A Light Bomber



Scottish Troops



Remains of *Pedernales* mid-section - 18 -

## Dick de Bruin's Dive Diary

This is Dick de Bruin's diary which he kept on the dives made in preparation for the retrieval of the propeller. This is his introduction and day-by-day account of what happened:

In 2008 I met colleague Rigo Hoencamp on my work at Marine Barracks Savaneta. We were both divers and after talking with Rigo we found we were both unshakable in our determination to find and dive to the SS Oranjestad.

I found a boat and a captain, but when he found out how deep we would make our dives and he was afraid that he would be responsible for a dive accident, so we had to search for another captain with a boat.

At 26-01-09 I was diving with two of my dive students from Baby Beach to Rodgers Beach. At the dive exit point at Rodgers Beach I met Paulus Martijn for the first time, where he was coming back from a fishing trip with the "Torpedo". I asked him of it was possible to go with his boat to a wreck just in front of the refinery and he was surprised because he had no idea that there was a shipwreck out there. We made an appointment to go on Sunday 02-02-09 @07.00 hrs.

When we (I, Rigo Hoencamp and Toine van der Klooster) left Rodgers Beach by boat we had not the exact coordinates of SS Oranjestad. We went out to the 225 foot depth and didn't see anything that looks like a shipwreck!

A little disappointed we left and later that week I spoke with Andre Loonstra. He told me to call commercial diver Percy Sweetnam, Andre felt he could help us to find the wreck, because he had dived 6 times on SS Oranjestad a few years ago. I couldn't believe my ears, when Andre told me that Percy's age is 67 years old, smoking cigarettes and still doing deep dives with heavy double tanks! We called Percy on his mobile number. What all happened after that unforgettable conversation is history now!

## DICK'S DIVE DIARY

#### <u>Dive 1</u>

Date: 08-02-09

Divers: Percy Sweetnam, Joubert Sweetnam, (family to Percy Sweetnam) Rigo Hoencamp, Dick de Bruin and Toine van der Klooster were on the trip but missed the dive to the ship.

? a.m. – ? a.m.

Details:

Dive time15Total dive time75Depth225 feet /69 meters

Because of an extreme strong current Dick missed the anchor line 2 times. Dive Buddy Toine ascended to the surface, because he can't descent without Dick. Percy and Rigo were on the wreck and came separately to the surface. Only Percy Sweetnam, Rigo Hoencamp & Joubert Sweetnam logged this dive.

#### <u>Dive 2</u>

Date: 10-02-09

Divers: Percy Sweetnam, Toine van der Klooster, Dick de Bruin 10.57 a.m. - 12.16 p.m.

Details: Dive time 15 Total dive time 79 Depth 223 feet / 68 meters

We were lucky this time, because there was almost no current. After the big disappointment of the first try to reach the SS Oranjestad Toine and Dick made an appointment with Paulus and Percy to dive again as soon as possible. When we came at the wreck we saw a big bull shark swimming fast away. Toine and Dick were very happy, because we saw the whole wreck in one single dive. Dick noticed that the port side propeller was broken off its shaft. Later during the dive Percy caught his meal for the lunch: A giant spiny lobster. In the next dive the team hopes to confirm that what Dick saw was correctly, because it could have be an imagination caused by a nitrogen narcosis.

#### <u>Dive 3</u>

Date: **15-02-09** Divers: Percy Sweetnam, Toine van der Klooster, Rigo Hoencamp, Dick de Bruin 09.55 a.m. - 11.07 a.m.

Details: Dive time 15 Total dive time 72 Depth 225 feet / 69 meters

Extremely strong current, with a very high risk of danger! It wasn't possible

to hold our face in the direction of the current, because it pushed the push button of the regulator and started to free flow continuously. After a slow descent to the stern of the shipwreck we went to the propeller and all noticed it together, Dick was not hallucinating on the last dive, it had broken off from the shaft. We also estimated the possibility of salvaging of the propeller. What was scary was, that during the decompression stops, the anchor line released from the wreck. In spite of what happened everybody completed the rest of their decompression stops.

#### <u>Dive 4</u>

Date: 18-03-09 Divers: Percy Sweetnam, Toine van der Klooster, and Dick de Bruin

08.02 a.m. - 09.33 a.m.

Details:Dive time16Total dive time91Depth225 feet / 69 meters

Strong current! They measured the size of the propeller to estimate the propellers approximate weight. All three divers together were trying to get a movement of the propeller. This was a mission impossible, because of the weight and one of the four blades was stuck in the sand.

Notes: We need to know the suspected weight of the propeller, so Dick emailed the shipyard Harland & Wolff in Belfast, the builder of the SS Oranjestad. Nice to know is that this shipyard was the builder of the TITANIC. They could not help us, but a phone call of Percy was successful. He called a seller of propellers in the USA. When Percy gave him the diameter, we got the answer. Our propeller weighs approximately 1,500 to 1,600 kilograms. So Andre Loonstra ordered a 4,000 pounds lifting airbag (SUBSALVE) in the USA.

Note: The propeller weight was 1,500 to 1,600 kilograms but the broken piece of shaft added some weigh which we did not calculate when we ordered the air bag. In the end we concluded the total weight was approximately 1,600 to 1,700 kilograms.

#### <u>Dive 5</u>

Date: **19-03-09** Divers: Percy Sweetnam, Paulus Martijn ?? a.m. - ?? a.m. Details: Dive time ? Total dive time ? Depth 225 feet / 69 meters

Percy dived with Paulus and made the first film shots of the SS Oranjestad ever. Also they measured the size of the propeller again and the distance from the propeller to the deck.

#### <u>Dive 6</u>

#### Date: 26-03-09

Divers: Percy Sweetnam, Toine van der Klooster, Marco Schouten, Dick de Bruin

11.10 a.m. - 12.20 p.m.

Details:

Dive time16Total dive time70Depth225 feet / 69 meter

Placed chains on the starboard stern, were we fastened a line to place a surface sea buoy. We were very lucky that dive, because there was a little to no current this day. Unfortunately the buoy disappeared after a few days, when the strong current came back.

#### <u>Dive 7</u>

Date: **28-03-09** Divers: Percy Sweetnam, Toine van der Klooster, Paulus Martijn, Dick de Bruin

08.57 a.m. - 10.10 a.m.

Details:

Dive time15Total dive time73Depth225 feet / 69 meters

Very strong current! Placed 2 steel slings at the propeller. These were extended with lifting links above the stern deck and held in position by a small airbag. Percy placed a big rope round a bollard of the SS Oranjestad to stop

the lift of a bigger airbag in the future. We noticed that the rope was just a few feet to short.

#### <u>Dive 8</u>

Date: **06-04-09** Divers: Percy Sweetnam, Dick de Bruin

09.23 a.m. - 10.31 a.m.

Details: Dive time 15 Total dive time 68 Depth 225 feet / 69 meters

Strong current. We changed the position of the 2 steel slings at the propeller blades. We took a small anchor which we had lost from our boat "Torpedo" to the surface by using a small airbag.

#### <u>Dive 9</u>

Date: 07-04-09 Divers: Percy Sweetnam, Dick de Bruin

09.30 a.m. - 10.40 a.m.

Details: Dive time 11 Total dive time 70 Depth 225 feet / 69 meters

*Very strong current!* We took a big 4,000 lbs airbag to the wreck and placed it on the lifting links. The airbag came in position with 2,400 liters of air. Checked the 2 steel slings at the propeller blades for the last time.

#### <u>Dive 10</u>

Date: **08-04-09** Divers: Percy Sweetnam, Dick de Bruin, Toine van der Klooster, and Andre Loonstra

15.52 p.m. - 17.09 p.m.

Details: Dive time 16 Total dive time77Depth225 feet / 69 meter

Strong current. Extended the big rope we placed on 28-03-09 round a bollard of the SS Oranjestad to stop the lift of the big airbag. We changed the connection between the big airbag and the lifting links. First we made the airbag empty, and then we blew 4 bottles (80 cu. Ft.) 9600 liters of air in the airbag. There was still no lift. We checked all the lifting gear before returning to the surface.

Note: The shaft in the propeller hub which had not been calculated for with the original lift bag was the cause.

#### <u>Dive 11</u>

Date: **09-04-09** <u>Divers</u>: Percy Sweetnam, Dick de Bruin

15.43 p.m. - 16.54 p.m.

Details:Dive time15Total dive time71Depth225 feet / 69 meters

Strong current. Tried to place an extra lifting link, but it was unsuccessful; it was 4 inches to short. We put 1 bottle (80 Cu. Ft.) 2400 liters of air in the lifting bag. YES, the propeller blade drawn out the sand and left the shaft. Even at 225 feet, we screamed together from the discharge of joy! Percy escaped some air out of the airbag and when he did so the propeller settled and landed next to the SS Oranjestad (portside).

#### <u>Dive 12</u>

Date: **11-04-09** Divers: Percy Sweetnam, Dick de Bruin

09.53 a.m. - 11.02 a.m.

Details: Dive time 11 Total dive time 69 Depth 225 feet / 69 meters

Strong current again today. We checked the stop rope again with a test lift.

*Put 2 bottles (80 cu. ft.) 4,800 liters in the airbag. We also took an old anchor line from the stern with us to the surface.* 

## <u>Dive 13</u>

### Date: 13-04-09

Divers: Percy Sweetnam, Dick de Bruin, Rigo Hoenkamp, Toine van der Klooster

 Percy & Rigo
 ??.?? a.m.
 ??.?? a.m.

 Dick & Toine
 10.21 a.m.
 11.23 a.m.

 Andre & Melvin
 ??.?? a.m.
 ??.?? a.m.

Details:	
Dive time	11
Total dive time	62
Depth	225 feet / 69 meters

Very strong current! This day was really a historic day, like 18 April when the propeller was hoisted up by crane out of the sea. A TV camera crew from Tele Aruba was on the location in our boat the "Torpedo". Andre Loonstra filmed the lift of the airbag under water. Also Historian Dufi Kock appeared on the pier to explain, what happened 67 years ago with the SS Oranjestad. Andre Loonstra filmed the final lift of the propeller on a depth of 40 to 60 feet. The safety diver Melvin Theuvenet was with Andre.

Percy end Rigo placed an extra lifting bag beside the main lifting bag and put 1 bottle (80 cu. ft.) 2,400 liters air in it. Dick filled the extra airbag with 1 bottle (80 cu. ft.) 2,400 liters air and Toine cut the stop rope with his dive knife. Dick swam away as fast as possible, because the propeller started to ascent very quickly.

Note: The smaller extra lift bag was added to compensate for the stub section of shaft in the propeller hub. The rest of the project was already on the web site <u>www.lago-colony.com</u>. On 17-04-09 took the shallow water transportation place, when the propeller was moved from where we had left it in 40 feet of water to in front of Percy's house. Percy and Dick worked another full day to transport the propeller from Percy's house to the exit point, between Brisas del mar and Zeerovers.

To do this Percy and Dick placed the big airbag on the propeller and also 4 barrels: one on each propeller blade and fill them with air so it was floating. Now that we have done the transportation to the exit point, everything was ready now for the lifting by a crane the next day; 18-04-09.



MISC. PHOTO: This Google map of the area shows the reef, first drop off and the second drop off, before reaching deep water. The lake tankers anchored in the area of the second drop off as they waited for daylight and a birth at a pier. The transition between the drop offs is more a cliff, as can be seen by the sudden change in the color of the water, it is not a gradual descent, as might be expected.



MISC. PHOTO: Propeller in 40 feet of water with lifting rig still attached and air bag out of photo.

# Q & A With Dick de Bruin via Email

Before publishing this book I sent an email to Dick de Bruin with the following seven questions about making the dive on *Oranjestad*.

1) At what depth can you make out the Oranjestad?

With visibility conditions good and the sea clear you can begin to see Oranjestad after you go deeper than 120 feet. Above 120 feet you only see the deep clear blue of the sea.

2) Is the light at that depth enough so you can see the entire ship?

Yes, as I said if the visibility conditions are good you can see the entire ship off in the distance sitting peacefully on the bottom.

3) Were you able to take any photos of the entire ship?

I would have been able to take photos of the entire ship however I would need a special camera that could resist the pressure of 7.9 bars / 116.13 psi. Unfortunately neither I nor any of the other Team Members have such a camera.

4) How much damage can be seen? Is the mid-section wheelhouse and bridge still intact, what about the aft end, is the smoke stack still standing?

The only damage we could see was in the mid-section of the ship on the starboard side where she was torpedoed. The mid-section wheelhouse and bridge are still intact, only the wings on each side of the bridge have deteriorated and fallen down. In the aft section the smoke stack has fallen and lies on the port side of the wreck on the sea bottom. When the smoke stack fell it landed not on the ship, but beside the ship, on the sand.

5) The ship was at anchor when she was hit, can you still see the anchor chain coming out of the hawser pipe in the bow?

Percy and I were talking about this very thing just this week and he said he remembered the anchor chain coming out of the hawser pipe in the bow, so from his recollection I would say the ship was still at anchor when she was hit.

6) Do you get a funny feeling being around the ship?

I have never had nitrogen narcosis, so no; in that respect I did not feel funny around the ship. At that depth, 225 feet, you have to be very careful for yourself as well as for your dive buddy.

7) What other thought do you have about the dive and the ship?

My thought when I first saw the Oranjestad was "It is amazing how intact the ship lies on the sea bottom after 67 years". It was almost as if the ship were frozen in time. The reason I think the ship is in such good condition is that she lies in a most favorable position with the bow in the prevailing current. At that depth the low oxygen in the water and lack of sea growth preserves the steel and thus the appearance of the ship.





MISC. PHOTO: Tanks ready to be loaded on Torpedo.

Calixto de Palm's Story (Paying a last tribute to his brother) By: Dufi Kock



Calixto (Lino) stands in front of Percy as he takes a look at the propeller.

Like most Bonairean (inhabitants of Bonaire) boys from the early years of the last century, Luis Emerenciana was no exception to the occupation of seaman. They were all young guys who did this profession for a better life for their family. They left their families from an early age and went aboard the many tankers that sailed the worldwide waters.

Luis was the eldest son from a family of five, of the late Mrs. Isidoria de Palm-Emerenciana. The youngest son, Mr. Calixto de Palm (Lino), age 80, tells with great emotion about the death of his eldest brother who was on board the *SS Oranjestad*, when it was torpedoed.

It is as if it had happened yesterday, says Lino with great emotion. He says that his brother was aboard the *Oranjestad* and that should have been his last journey. Lino, at that time was a boy of 13, who was in Curaçao together with his mother, sister and the future wife of Wichi (nickname for Luis). They were preparing for the wedding of Wichi (25), after his last trip on the *SS Oranjestad*. After the trip to Aruba, the ship would then go to Curaçao, where they expected him, and together they would then travel to Bonaire for the wedding of Wichi and Shon Popo. Everyone was full of enthusiasm with the preparations, when just seven days before the

scheduled wedding, they got the message that the SS Oranjestad had been torpedoed off the coast of Aruba. They had also received the sad message that Wichi was one of the dead.

The family had not even obtained the mortal remains of their beloved one. Almost the entire crew was burned and only sad memories remained.

Lino just could not miss this historic event and was present when the crew brought the propeller of the SS Oranjestad on land.

This family tragedy brought back so many sad memories for Lino, as the only living survivor of this family. Lino, not only felt that it was necessary for him to be present at this historic event, but also used this opportunity to pay a last tribute to his beloved brother.



CALIXTO DE PALM


# The Team & Committee Members

### PERCY SWEETNAM – TEAM LEADER



Percy Sweetnam is a professional diver and the one that first dived to the SS *Oranjestad*. He took the others to the ship and when it was decided to salvage the propeller he was chosen to be the team leader.

Born in Aruba on September 27, 1942, he graduated from Juliana School (Mulo-B) in Aruba and worked for Lago as an underwater hull cleaner on Esso tankers. After leaving Lago he went to California and became an American Certified Commercial Hard Hat Diver. Returning to Aruba he became a Diving Instructor at the Caribbean Hotel and later moved to Curaçao where he worked as a professional diver at Curaçao Dry Dock as well as a professional diver for OCCC, a Dutch company that built a new dry dock in Curaçao. Later, as a supervisor and diver with Interbeton he placed 1,100 pieces of 80-ton blocks for the construction of the container port in Curaçao. Moving to Bonaire he worked for ENECA as diver and supervisor in the construction of a new pier. From there he went to Doha in Qatar with Interbeton and placed 350-ton cells filled with concrete, which are similar to caissons, for a dock for Qatar's crown prince.

He now lives in Aruba and has laid fiber optic cable from land out to sea as well as doing other commercial diving jobs. He also enjoys fishing.

#### DICK de BRUIN



Dick was the man who sent me the email telling me about this undertaking. He is 42 years old and born in Zeist (1967) near Utrecht in the centre of Holland. He is now living at Palm Beach in Aruba with his lovely wife Mandy and has 2 sons, Leroy and Delano, and his little daughter, Kaylen (Ages 14, 8 and 3).

Dick says he worked in the Dutch navy for twenty-two years, and is now a sergeant. For eleven of those years he worked in three different countries outside his home country, Curacao, Aruba and Belgium. He did 2 UN missions: One in former Yugoslavia 1994 and one in Liberia in 2003.

He has also worked on 4 different kind of navy ships: Hr.Ms. de Ruyter; Hr.Ms. Abraham van der Hulst and Hr.Ms. Jan van Brakel.

The last ship was a Landing Platform Dock ship (LPD) Hr. Ms. Rotterdam L800 and he worked on this ship for 3 years

He is now based on the Marine base M.S.K. Savaneta as the chief cook (2007 till 2010).

He goes on to say; *"I have been doing recreational diving since 1990 and in 1991 was qualified as an Open Water Instructor."* He has also taught people to dive for 18 years for 3 different diving organizations: PDIC, IDD and SSI. He says the enthusiasm of the student divers after every dive is so wonderful, that he still loves to teach. The best dive motto Dick ever heard was: *"If you can breathe, you can dive."* Dick has his own web site <u>www.duikenoparuba.com</u> unfortunately the web site is only in Dutch.

Before the retrieval of the propeller he had only known Toine van der Klooster since 2000 and he met Andre Loonstra in 1998. Last year, he met colleague Rigo Hoencamp on the marine base.

The rest of the dive team, Percy and Paulus he met just 2 weeks before the start of the project in February this year. The dive team came together very quickly and felt as if they had worked together for many years. The words Andre had to say for what happened are very true: "A good oiled running machine."

Dick went on to say. "Everybody in the dive team was very experienced. We were all focused on what had to be done and went at the mission to lift the propeller and it all came together and happened under difficult circumstances with a high risk of danger. During my first dive on the wreck I noticed that the propeller was broken off the shaft."

"After that dive we discussed with the dive team the possibilities of salvaging the propeller to make a monument. So we started the dive project from 15-02-2009 till 18-04-2009."

The dive team hopes that the monument will be placed in Seroe Colorado, exactly in front of the sea where the SS Oranjestad lays.

Later Dick told Dan Jensen the following: *My interests for WWI & II shipwrecks started in '95, when I dived a lot in the North Sea next to Holland. There were a lot of interesting WW-I British warship wrecks: HMS Cressy, HMS Hogue, HMS Aboukir etc.* 

In my summer vacations I went to the South of France, Presquille les Giens in Heyeres to dive on the many WW-II shipwrecks: Le Grec, Le Donator, Michel C etc. and also on a WW-II Mustang airplane at 180 feet.

I made dives on two very interesting submarines: Les Rubis (St Tropez) and Le Ariane (Toulon). These wrecks were not the results of World War II. I also dived to the WW-II shipwreck "HMS Thistlegorm" in the Red Sea, in Egypt.

From 1998 till 2001, I was based on the Marine Barracks Savaneta. Beside my job I dived a lot in my spare time. My interest for the WW-II history on Aruba awakened after several dives on the Antilla and Pedernales. I was searching on the internet and in the Aruban library any information I could find. Also tried to find somebody who dived on the SS Oranjestad, but couldn't find anybody in that period with that kind of deep dive experiences.

With Toine van der Klooster I made some dives a few miles off of the coast of Aruba trying to find a sunken German U boat. We were unlucky, because the information we had wasn't precise.

In 2001, after 450 logged Aruba dives I left the island and hoped that the Dutch Navy would send me to Aruba again in the future.

After a period of 3 years on Landing Platform Dock ship Hr. Ms. Rotterdam and 3 years working in Brugge, Belgium I returned in 2007 again to Aruba.

*Met dive friends Toine van der Klooster and Andre Loonstra again after 6 years.* 

*I surfed on the internet to find information for interesting dives and found the most interesting site the Roundtable discussion of German U-156 and U-502.* 

I printed all the newsletters from the discussion group and read them carefully and in one of the newsletters I read about Historian Dufi Kock trying to get a WWII monument for all who died during the torpedo attacks 15/16 February 1942.

Later when I was diving on SS Oranjestad and I noticed that the propeller was broken off its shaft, I got a hunch: "That propeller will be the WWII monument! Discussed it later, with Percy and Andre in Andre's garage and the "SS Oranjestad Propeller recovery project" was born.



#### ANDRE LOONSTRA

My name is Andre S. Loonstra. I was born on Aruba March 26 1955. My father was Dutch my mother American. I have lived on Aruba my whole life except for when I attended Prep school at the Choate School in Connecticut and college at Tufts University in Boston where I graduated with a BS in Civil Engineering. After graduation I returned to Aruba and started working at the Victoria Bottling co. which was owned by my father. At that time I also married my girlfriend from college. We have two children, my son Ivan, and my daughter Jacqueline. After working at Victoria Bottling for 7 years I went back to Massachusetts with my son for educational reasons. While living in Fall River, Mass. I got a part-time job at a dive store doing sales and equipment repair. I had already gotten certified as an open water diver as part of my senior spring project at Choate, so while I worked at the dive shop I decided to take the Instructor training course. After completing the course I became instructor #9709 for the National Association of Underwater Instructors. At this time my now ex-wife came to Massachusetts to take care of our son and I moved back to Aruba where I started Aruba Scuba Center in 1988. I had a dive shop at the Bushiri Beach Resort until 1997 when I decided to stop diving with tourists, and instead concentrate on equipment repair and air fill services for other dive shops. I am still doing this today.

Among my many customers were Percy Sweetnam, Dick de Bruin and Rigo Hoencamp. Percy and I had many conversations about the SS Oranjestad, so I have always wanted to dive the wreck. One day Rigo came to my shop and told me he was interested in diving on the SS Oranjestad and wanted to know if I knew the exact location of the wreck. I told him about Percy, and gave him Percy's phone # that I had on file. Several months later Rigo and Dick came to my shop after an unsuccessful attempt at finding the wreck. They told me it was their second attempt at finding the wreck. I asked them if they had spoken to Percy, and it turns out the number I gave them was Percy's neighbours. At that point I hooked them up with Percy, and within a few days they had done about 3 dives on the site. It was after one of those dives that Percy and Dick both came to my shop to have their SCUBA tanks filled and we sat there and started talking about the wreck. Percy told us that during his research about the ship he had met Dufi Kock and Dufi had been working on a project to make a memorial for the victims of the U boat attacks of February 16, 1942.

We started thinking that a piece of the SS Oranjestad would make a good memorial. At this point Dick asked Percy if he had noticed that one of the props was no longer attached to the shaft. He had not, so another dive was planned. Percy had always wanted to take pictures of the wreck, but did not have a camera that could withstand the pressure at 225 feet. I called some friends, and managed to borrow a UW video camera from Vince Shenker. None of the other divers was free to dive, so Percy asked Paulus Martijn who was the captain of the boat they were using. It was on this dive that the first ever underwater images of the SS Oranjestad were recorded. The video confirmed that the prop was loose, and at that point it was decided to bring the prop up to be used as a memorial. The rest is history. I only participated on 2 dives. The first was when I went down to the wreck for the first time. It was an amazing experience and way too short to take everything in. The second was the day we brought the prop up where I went down to about 50 ft to record the video of the prop being lifted to the surface. The prop recovery was an exciting and also quite dangerous project that required lots of planning and preparatory diving to ensure that it was done safely and without any incidents. I am very proud to be part of the Percy Sweetnam propeller recovery team.

I also want to mention that I have several other hobbies. I have been a drag racer since 1987, and have even competed professionally as the driver of the "Aruba.com" Pro stock car in the IHRA, NMRA, and FUN FORD WEEKEND sanctioning organizations for several years all across the US, and I still drag race here in Aruba although in a more budget friendly class. I am almost finished building my new race car, and have some alternative energy projects on the burner. I also breed exotic birds such as cockatoos, amazons, eclectus, vonures and many others. Basically, I have way too many things going on and not nearly enough time to do them. Fortunately Jenny, my girlfriend of 20+ years had no idea of the dangers involved in the prop recovery project. She is also the mother of my youngest son, Elliott, and I appreciate her support in all my strange projects and experiments. I also want to thank the roundtable for being the excuse we needed to make the prop recovery a must-be-done deal. We probably would have recovered it anyway, but it would have definitely caused a lot of grief on the home front.



#### TOINE van den KLOOSTER

Toine started diving in Holland with a youth diving club when he was twelve and since then he has been hooked on diving. He always booked his holidays where he could dive and in 2000 while in Aruba on a holiday he met Dick and they did a lot of diving all around the island.

He was born in 's-Hertogenbosch, Holland on June 28, 1974 and after school he joined the Royal Netherlands Marines where he served for nine years. For 18 months he was stationed in Aruba with the Royal Marines and found he liked Aruba and vowed he would one day come back there to live.

After his stint in the Royal Marines he worked as a policeman in Rotterdam, Holland but soon found he did not like being a policeman and quit his job, packed his bag, closed the door on Holland and jumped on a plane for Aruba.

He has been in Aruba now for over four years and works as a manager for a hotel complex with a bar and a restaurant. The place is called Perle d'Or and can be seen at: <a href="http://www.perledorauba.com">www.perledorauba.com</a>.

Toine hopes there will be a "nice" monument for all the men that lost their lives and all the family/friends that stayed behind so they will not be forgotten.

He said he also feels, "a monument can also be a great testimonial for tourists who come to our island so they will see it's not only sun and beaches here but that also on Aruba, people defended our freedom."

When Dick approached him with the plan to get the propeller to shore he just saw it like a nice "job". The more dives he made the more interesting it became.

He went on to say; "It surprised me a little the impact it made on a lot of people on Aruba and around the world."



### **RIGO HOENCAMP**

Rigo was with the team when they raised the propeller from the SS *Oranjestad* to 40 feet of water. That following week, before the propeller was moved to Saveneta and lifted ashore Rigo had to return to Holland on business. For this reason he was unable to assist the team on the final phase.

Rigo lists his Occupation as Military and owner of his own company, *Aquamed Diving Medicine*, which is in The Hague, Netherlands. He has been actively diving since 1994 and his specialty is deep wrecks, (up to 130 meters). He has made over 3,000 deep wreck dives as an instructor in many locations in the world.

He is certified in the following technical diving systems: Trimix; Basic and CCR re-breathers. He is also a PADI/DAN/ANDI/MFA/EFR instructor.

Rigo has dived in the following locations: The Netherlands, Africa, Belgium, England, France, Italy, Sardinia, Sicily, Croatia, Spain, Cyprus, Turkey, Norway, Malta, Mozambique, Gozo, United Arabic Emirates, Kuwait, Jordan, Israel, Egypt, Indonesia, Palau, Truck Lagoon, U.S.A., Mexico, Aruba, Bonaire, Curacao, St. Martin, Sint Eustatius, Saba, Cuba, and Martinique.

Rigo has always been in search of special and deep wrecks. The idea of the propeller was initiated by Dick de Bruin and Andre Loonstra. He had known them both before they formed the team. He met Paul Martijn and Percy Sweetnam when the project got started. He discussed diving on the *SS Oranjestad* with Dick and Andre many times but initially when they tried, they could not find the wreck of *Oranjestad*. Later they got in touch with Percy who had the exact coordinates. Subsequently, he had the pleasure of being on the first dive to the wreck with Percy and his nephew. But because of strong current, on that dive they only touched the bottom.

Rigo feels the monument is a good idea; "It will be a means to remember all those who lost their lives and with this monument, it will also be a reminder to everyone of WWII."

Rigo has a web site about his company. The web address is: <u>www.aquamed.nl</u> unfortunately it is only in Dutch.



### **PAULUS MARTIJN**

Paulus Martijn was born May 1, 1963. Presently he is working at the Valero Refinery as a Document Control Coordinator in the Oil Movements Division. He is also a fire fighter and on the Emergency Response Team.

Paulus started to dive when he was 13/14 years old. He says he was the one who was hauling in fish while his old older brothers were doing spear

fishing off the point on the north shore at Seroe Colorado. He then started to spearfish and catch lobster in the Savaneta lagoon and near the reef berth. Later he started diving with tanks and now, "*I can't live without diving which has become my hobby.*"

One day as we returned from diving with the Torpedo, Dick de Bruin approached me to ask me to take them to a sunken ship. Without thinking twice I gave him the time and date that we could go. I never realized that the ship he had in mind was the SS Oranjestad. The day came and we went in search of SS Oranjestad but we were not lucky and did not locate it and I believe that on that day we were not prepared for it either.

After that I decided to approach Percy whom I knew very well. We dived together on many occasions and I knew that Percy is a professional diver. To my surprise when I approached Percy, he already knew of everything and was already preparing for our trip to search for Oranjestad. We went and were lucky this time because we found the ship. I was an emotional moment for all of us when we arrived to the ship. I am very happy and proud to be part of the team to search for SS Oranjestad. Then more so, when we lifted and placed the propeller on shore. I will be happier still when we complete our goal with the placing of the monument in the Lago Colony.

This was written by Paulus Martijn in Dutch and translated by Dufi Kock into English.



### **DUFI KOCK**

Dufi Kock was born in Aruba on September 27, 1936. He attended Don Bosco School and the Lago Vocational School. He then went to

work as a clerk in the Light Oils Office. In 1964, he received a Lago Employee Assistance Program (LEAP) scholarship to study Chemical Engineering at the University of Dayton in Ohio, U.S.A. Upon his return he was assigned as Training Administrator and in this capacity coordinated and taught Basic, Advanced Training, Management Training, and Workshops. As a national and international member of the American Society for Training Development (ASTD), he had the opportunity to attend many courses and seminars in the U.S. and Venezuela.

Dufi also worked in industrial public relations as Secretary of the Lago Scholarship Foundation.

He worked for Lago for 35 years, until it closed down on March 31, 1985. He subsequently worked as a Purchasing Manager at the Sonesta Hotel; as Personnel Manager at the Marriott Hotel; and Personnel Manager at the Paradise Beach Villas Hotel. Later, he decided to dedicate his time to community work. He is a writer and historian. He presently has three books on the market: *How to Apply for a Job; The History of Aruba;* and *The History of a Classic Car.* It won't be long before he will publish his fourth book, *The History of Savaneta.* 

Dufi spends most of his time either on the computer doing research or reading educational and historical books. He helps school children with their theses, making genealogies, and teaching the history of the island and WW II. Recently he has become a member of the SS Oranjestad Memorial Committee and his role is to help the dive team with the history of WW II. He is the happiest person on the team. He is also a member of the U-156/U-502 Roundtable; a member of The Aruba Chronicle; and a contributor to Dan Jensen's website <u>www.lago-colony.com</u>.

In 2006 Dufi was decorated by Queen Beatrix as a Member in the Order of Orange Nassau for his community work.

He has been working for two years to get a monument in Lago Colony in remembrance of all those who lost their lives during WW II. He strongly believes that with the recovery of the SS Oranjestad's propeller, his wish is going to be accomplished.



# The Dive Team in Action

Photos supplied by: Dufi Kock and Andre Loonstra



Let to right: Dick de Bruin, Percy Sweetnam, Toine van den Klooster, Rigo Hoencamp, Andre Loonstra and Paulus Martijn. Rigo had to return to Holland so was not present when the propeller was lifted ashore.



Another shot of the Team after they returned -41 -



Loading equipment for one of the dives



On the way to the dive location



Getting ready to dive



On location, SS Oranjestad lies 225 feet below



Home after a dive.



Checking the airbag.



Making ready the ropes for the lift



Making fast to the marker.



This is a photograph taken from video shot at 225 feet by Percy Sweetnam and cut from the video by Andre Loonstra. The aft of the ship can be seen behind the diver.



From that same video, here the prop can be seen in the sand, broken from the shaft. The rudder of the ship can be seen behind the propeller.



Again another photo taken from the same video, this shot is taken along the shaft with the propeller in the foreground, before the lift. These photos were sent to me by Dick de Bruin.



The propeller comes to rest in 40 feet of water - 47 -



Diver checks his dive time



They also check the rigging on lift line from the propeller to the air bag



Diver begins ascending



Diver checks with his buddy

Now that the propeller is in the bay at Savaneta, it is held in position by the crane, while the divers disconnect the air bag and the drums used to float the propeller to this location.



Just before the lift, drums and air bag are still attached



Percy Sweetnam watches the propeller as it comes ashore



A very happy dive team and their propeller



Mr. Omar Briceno and the crane that lifted the propeller



Clixto de Palm, standing in front of Percy captain of the *Torpedo* is second from left



This will give you a general idea where the SS Oranjestad sank on the night of the attack.



This rather bad photo, taken from an 8 mm home movie, shows how the lake tankers anchored just off the reef, in front of Coco Beach (Rodgers' Beach) lagoon.



One of two displays made up for presentations and fundraisings that the Dive Team & the memorial committee have put on in Aruba in the past month.



## The other display



# **Cleaning The Propeller**

On May 14, 2009 the Mourik Company, an industrial cleaning company which does contract cleaning for the Valero refinery, steam cleaned the propeller. During the cleaning it was discovered that the propeller had a stamp showing a Lloyds Test had been preformed on the propeller.



Cleaning begins



Inspected.



A closer inspection of the hub



And then more cleaning



Inspection the marking stamped in the propeller



The mark of the Lloyds Test. GT 2/3 The numbers are hard to read, 49-9-SO? 11-10-38? As the sea growth and corrosion of the past 67 years was blasted away, the bronze propeller took on a new look. The rich bronze was pitted, it did not have the smooth machine finish it had when it was new and it had not had the advantage of being washed clean as it churned beneath the ship. The propeller had a color and look that reflected its age and what it had endured. In this condition it would not make a fitting monument to those who were long forgotten. Now, thanks to further cleaning and polishing by Percy and the men who returned it from the deep, this aged propeller will shine as it commemorates those who lost their lives.



After the propeller was steam cleaned Percy set up a tent next to his house and began the final cleaning and removal of the broken shaft from the propeller's hub.



Another view of the propeller, much additional cleaning has been done and the shaft is starting to emerge from the hub.



Still another view of the propeller, note the improvised puller devised by Percy which did the job.





MISC. PHOTO: Rigo Hoencamp checking on equipment



MISC. PHOTO: Dick de Bruin explains what needs to be done



MISC. PHOTO: Close up of the hub of the propeller and the broken shaft

## The SS Orangestad Memorial Committee

On May 6, 2009, this committee was formed by the Dive Team. Dufi Kock was asked to be President because he had been trying to establish a monument for some time. Toine van der Klooster became Treasure. Since Rigo Hoencamp had returned to Holland, he did not become a member for the Committee. An account for the monument was established at the Caribbean Mercantile Bank in Aruba on May 11.





Dufi Kock, President

Toine van der Klooster, Treasurer

Since that time, there has been positive movement. The Committee has requested a local architect to give some suggestions for the structure of the monument. A site has been selected and Minister Ramon Lee is awaiting final approval by the Aruban government for the use of the site.



Seated on the wall in front of the location where the monument will be place are, from left to right; Andre Loonstra; Mrs. Elly Sweetnam; Dick de Bruin; Percy Sweetnam and a friend. (Photo by Dufi Kock)





MISC. PHOTO: Sitting in the *torpedo* in the same location where *Oranjestad* was torpedoed.



MISC. PHOTO: Propeller is set on a mound of dirt when it was first brought ashore.

## Press Release in Aruba

#### SS ORANJESTAD'S PROPELLER AWAITS ON HER FINAL DESTINATION IN THE SEROE COLORADO

On April 18<sup>th</sup>, after 67 years, a dive team consisting of: Percy Sweetnam, Dick de Bruin, Andre Loonstra, Rigo Hoencamp, Toine van der Klooster and Paulus Martijn, salvaged the propeller of the lake tanker *SS Oranjestad*. When the salvage project was completed several steps were taken for the realization of a WWII monument. This SS Oranjestad lies in front of the refinery in a depth of 225 feet or 69 meters.

The propeller becomes part of a WWII monument in the Seroe Colorado. The monument will be dedicated to those who lost their lives during WWII while in Aruba working for and defending the refinery and the island that supplied a large portion of the fuel used by the Allies. The historical torpedo attacks on the Aruban coast were done by a German submarine, U-156, on the early morning of February 16, 1942. The torpedoed tanker, *SS Oranjestad* was the first tanker to be sunk in Aruba and the entire western hemisphere, where 15 of her crew members lost their lives that early morning.

Recently, the propeller was professionally cleaned by a well-known cleaning company Mourik Caribbean N.V. in San Nicholaas. With the newest techniques, they removed the sticking corals. The original bronze color came up and shined directly under the Aruban sun.

Aruban historian, Dufi Kock, and the dive team started the SS Oranjestad Memorial Committee and opened a bank account at the Caribbean Mercantile – Noord branch, where interested people can give donations for the WWII monument.

The SS Oranjestad Memorial Committee has contacted the office of the Minister of Culture, Mr. Ramon Lee to discuss possible sites that the government could make available for the monument. It is hoped that the decision of the site can be made as soon as possible by Minister Ramon Lee in order to be in time for the groundbreaking ceremony by June 23, during the Lago Aruba Reunion of the ex-Lago people, many of whom were there during the attacks. Approximately 200 Lagoites with their families will be in Aruba for this reunion and we expect many more if we can provide positive confirmation of the groundbreaking ceremony during the reunion.

Should you wish to make a donation, please do so at the Caribbean Mercantile Bank – Noord branch at Palm Beach 4-B, the SS Oranjestad Memorial Committee, bank account number **1990**. If you have any questions, please call 584-1201/592-4917/563-9079. Thank you for your generosity.

For more information on this project, go to <u>www.lago-colony.com</u>, under the link *SS Oranjestad* or World War II, where you will find the Aruba WWII history, including information on the salvaging of the propeller. You will also find three short films on You Tube, part I, II, & III.

Dufi Kock President SS Oranjestad Memorial Committee





MISC. PHOTO: Loading the boat.

## Meeting With Minister Ramon Lee

#### June 11, 2009

This morning at 9:00 a.m., The Minister of Labor, Education, and Culture, Mr. Ramon Lee met with Mr. Percy Sweetnam and Mr. Dufi Kock and discussed the proposal to use the recently recovered propeller from the *SS Esso Oranjestad* as the focal point for a monument to those who lost their lives while working in Aruba to supply oil for the Allies in World War II.

The atmosphere in the meeting was tremendous and it was a very positive discussion. Mr. Ramon Lee agreed with the first location that Mr. Sweetnam had selected and which Mr. Kock also felt would be more in keeping. It is not in the triangle which is formed when the hill in front of the Church and the lower road intersect but instead on a little hill across from the church and to the left of the light pole, (see the photo on page 70). The Minister pointed out that the trees would be protected and it was a far safer location than the triangle.

When the Minister learned that about 200 Lagoites would be in Aruba June 20 to June 27 for a reunion he suggested a groundbreaking ceremony on June 24 between 5:00 p.m. and 7:00 p.m. Minister Lee said that he will make the necessary arrangements to have the spot cleaned, provide a tent, chairs, etc. for the ceremony and Percy and Dufi offered to take care of drinks and snacks on behalf of the SS Oranjestad Memorial Committee. That proposal will be discussed in committee meeting of June 20th at the Perle d'Or Restaurant.

Minister Lee also said that by October the monument will be in place at our suggested spot.

Minister Lee went on to suggest that Percy and Dufi take a look at the existing monument dedicated to soldiers who lost their lives in World War II. He felt that a monument along these lines would be in keeping and the propeller would be the focal point.

Dufi has taken a photo of this monument, it is inserted below. Again this design will be discussed at the Committee's next meeting.

Dufi said. "Therefore, we now have a date set for the groundbreaking. I would like to suggest to Dan Jensen and Don Gray that they extend an invitation to our visitors if they would like to attend the groundbreaking ceremony. We told the minister that many will attend." Please consider this an invitation if you are on the island of Aruba at that time.

I am sorry I will be unable to attend but I hope many of the Lagoites do attend and show their support for the monument.

Before leaving Minister Lee's office Percy and Dufi presented The Minister with a copy of a DVD that records the recovery of the propeller and video of the dive.

Dufi closed his report to me with this line, "Percy and I were the happiest persons on this world when we left the minister's office."



Above: Mr. Percy Sweetnam and Mr. Dufi Kock present to Minister Ramon Lee a DVD of the recovery of the propeller from the lake tanker SS Esso Oranjestad. Mr. Kock presents Minister Lee with a copy of the web site www.lago-colony.com.


Right: This is the monument in Aruba to the soldiers who lost their lives during World War II. The proposed monument would be similar only in place of the soldier the propeller would be used.



The area to the left is the new location for the monument, almost directly across from the church and above the triangle that was first considered. This area will offer the monument more protection from traffic and the cactus will be cleared away.



This is a closer shot of the area where the monument is to be placed. It is a much more suitable location that the triangle that was first considered.



## MISC. PHOTOS



er

Piper









MISC. PHOTO: Working with the airbag in the shallow water



MISC. PHOTO: Getting the airbag and drums ready to fill with air for the lift in shallow water



Percy looking at the photos of the SS Oranjestad

# Photo by Lisa Gray The Old Lago Refinery and Colony



View in front of the Esso Club looking west at the refinery across the lagoon. This photograph was taken in the early 1950"s



This photograph shows the Lago Hospital in the foreground, and then the housing in colony. You are looking south. This photograph was taken soon after the war.



View of the lower road in Lago Colony, looking west toward the refinery. This photograph was taken shortly after World War II.



Rodger's Beach as it looked during World War II. Again, this photograph was probably taken shortly after World War II.



# Lake Tankers

## SS ORANJESTAD

Until June 24 there were no known photos of the SS Oranjestad. Then Dick de Bruin revealed that he had obtained eight photos of the ship while under construction and one of her under way. The company who built the ship, Harland & Wolff, Ltd., in Belfast, Ireland directed him to the National Museums, Northern Ireland. (NMNI) Although Dick purchased the photos they still remain the property of the museum but these pictures are used courtesy of the Ulster Folk and Transport Museum.



Lake tanker SS Oranjestad on the ways at Harland & Wolff, Ltd., shipbuilders, in their Belfast shipyard in Ireland just before she was launched in 1927.



A Section of the SS Oranjestad at the beginning of construction Note the flat bottom.



The SS Oranjestad begins to take shape in the dry dock. Notice that this ship is built with steel ribs and then sheeted in steel, much like the construction of a ship being built with wood.



Here you can see the ship's ribs as the steel skin is applied.



This is a shot of the SS Oranjestad. I believe she may be in the process of being launched.



The aft of the ship on the dry dock ways, with a good view of the propeller that was later salvaged. Note how the propeller is tucked up above the flat bottom to protect it when the ship hit crossing the sand bar at the entrance to Lake Maracaibo.



An unfinished SS Oranjestad is towed up river for additional work.



A finished SS Oranjstead, now under her own steam, heads to sea and Aruba. In this photograph you can see the two bridge wings that Dick says have fallen off the ship as well as the tall smoke stack that now lies beside the ship on the sandy bottom.

To my knowledge these are the first photos of the *SS Oranjestad* that have surfaced since I began my web site. I even asked the children of Captain Morgan, the skipper of the ship the night she was torpedoed and they did not have photographs. I also checked with Auke Visser in Holland who has an extensive web site covering Esso tankers and lake tankers and he did not have a photograph. http://www.aukevisser.nl/

## **Vessel Data Sheet: Basic Ships Details**

SOURCE: Lloyd's Register of Ships 1927 - 194	2	
NAME OF VESSEL:	ORANJESTAD	
LATER NAMES (if any):	-	
<b>OFFICIAL NUMBER</b> (recorded since 1872):	149907	
SIGNAL LETTERS (recorded since 1874):	GNFD	
RIG DESCRIPTION or TYPE:	Twin screw (tanker)	
MASTER:	n/a	
SHIPBUILDER:	Harland & Wolff Ltd	
PLACE:	Belfast	
YEAR:	1927 completed September	
TONNAGE:	gross:	2396
	net:	1242
	Under deck:	1743

<b>DIMENSIONS</b> ( <i>in feet unless otherwise</i>	length:	305'7"
(recorded since 1863)	breadth:	50'2"
	depth:	14'3"
ENGINES (if any):	type:	Triple expansion 6 cyl.
	builder:	Harland & Wolff, Belfast
PORT BELONGING TO:	London	
FLAG:	British	
<b>REGISTERED OWNER:</b>	Lago Shipping Co. Ltd.	
MANAGER (if known):	Andrew Weir & Co. (originally)	
LLOYD'S REGISTER CLASSIFICATION (where applicable):	₹100A1	
OTHER CLASSIFICATION (where	-	

applicable):

Her original managers were Andrew Weir & Co., and in 1936-7 they changed to F.J.Wolfe. Then in 1940-41 her managers changed to R.A. Carder, thoughout her life she was owned by Lago Shipping Co. Ltd.

Our records show her to have been sunk by a German submarine on the  $16^{\rm th}$  February 1942 whilst anchored outside Aruba in a position of 12 25 N., 69 55 W and that she sank in approximately 120 fathoms. Of her 25 crew, 15 were lost.

#### **BIBLIOGRAPHY**

1. Lloyd's Register of Ships 1927 - 1942

This is the information on the SS Oranjestad supplied by Lloyd's Register Group Services, Ltd. in London.

# **SS** Pedernales

#### The following photos are from: http://www.aukevisser.nl/

The *Pedernales* was also torpedoed by U-156 just minutes before the *Oranjestad* was torpedoed. She burned, but did not sink and the following day was taken to the Lago dry dock where her damaged mid-section was removed. She was welded back together as a shorter ship, a temporary wheelhouse was fitted and she make her own way to Baltimore, Maryland where a new mid-section was installed.

The *Pedernales,* launched in 1937, was a very similar ship, although 10 years newer than the *SS Oranjestad,* which was launched in 1927.



Lake tanker *Pedernales* just before she was launched - 79 -



Pedernales on the ways before being launched



Captain McCall of the *Pedernales* - 80 -



Lake tanker Pedernales as she slides into the water after being christened



Pedernales painted the colors of Andrew Weir and Co. Ltd.



Another photo of the lake tanker *Pedernales* again with the colors of Andrew Weir and Co. Ltd.



The *Pedernales* after she became the *Esso Pedernales* note the different color of the ship and the stack.

The following photos from the Aruba Esso News - February 16, 1962



The first U-156 torpedo broke the Pedernales' back, set her afire, but never sank the laker E promer torpedo di U-156 a kibra lombra di Pedernales, pero no a logra sink e tankero

The deck of the lake tanker SS Esso *Pedernales* after being torpedoed and the fire extinguished



The *Pedernales,* after being torpedoed by U-156 is under tow to the Lago dry dock at San Nicholaas harbor to have her damaged section removed and then welded back together so she can make her way to Baltimore, Maryland to have a new mid-section installed



A shortened *Pedernales* leaves Lago's dry dock for Baltimore Note the lower, temporary wheelhouse mid-ship



Stamp issued in Aruba to remember the attack on the island. Notice the drawing of the Pedernales is the same as the photo of the torpedoed ship on the preceding page. The torpedo on the beach and the two men standing beside it is taken from a photo which can be seen under DEFENSE OF ARUBA. This section is found later in the book.



Another stamp in the series issued to remember the attack on Aruba showing the U-Boat firing on the refinery with the deck canon



The third stamp in the series which has nothing to do with the attack on Aruba. The man honored on this stamp is an Aruban named Boy Ecury who lived in Holland during World War II. As a student he was very active in the Dutch underground and captured and killed by the Gestapo.



Bow of Pedernales after being cut from damaged mid section is moored at a pier waiting to be re-attached to the aft section of the ship



Deck of a lake tanker between mid-ship and aft. Esso employees and family would catch a ride on a lake tanker just to have a break when on local leave. They traveled as guests of the captain.



LT. JG Dryden painting a symbol of a German U-Boat kill on the side of his PBY. This is the aircraft and pilot that depth charged the U-156 and sent her to the bottom in 1943. This aircraft was stationed in Trinidad and patrolled the area.



Another view from the bridge of a lake tanker, looking aft



The top of neutralian matrixed to quet night, an explosion-ripped limiter spewed forth Haming erade oil, Crewman screamed in freenweiged querters. Some scrambide to lifeboats. Others fluing themselves into the water, Many died, it was 0131, Peb. 18, 1942, World War II had been brought to Arwho by the Garman Rich Navy U-beat 156, Kagitanleutnant Werner Hartenstein, commanding.

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yegs m. e. betoms subhibits. Orto tashu tir, nan wes as awa. Hoja a muri. Tashut 0131, Peb. 16, 1942. Guerra Mandial II. wards tred Arkah door di U-BA, us aubmurino Alumna, cu Kupitanisuinan Werner I. Latranzieta concomandante: E. U-156 a words tuma na servicie Sept. 4, 1941. Tradicion, asian tanto un parti du mavor nari di e correnoitante dei culto mavor nari di e correnoitante dei culto.

4, 1941. Tradicion, asina tanto un parti od time forza naval na mando, kalaka constitui un. Harementein den jeleon uniforma a turan verer contando de estiberarion miestras au tripulseion, tambe den piezo uniforma, itementa a turan lagar na Brenzer na dell' haita un tripulacion berde en cua el commadante tubeta papia. E tripulacion (abida miestra) dora de estivacamente intenetto au tin hopi huna di estivacamente intenetto adtin do la estivacione teristo y manistra do estivacione teristo y naval a cominar na 1930 cento miestivo di German Weinnar Republic Navy.

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Copy of the company publication, Aruba Esso News, dated February 16, 1962, which carried the story of the attack by U-156 twenty years prior. This article was written shortly after confirmation of Gunnery Office Lt. Dietrich von dem Borne story. The entire publication is found starting on page 131.



Lake tankers loading at a dock in Lake Maracaibo in the 1930's



Lake tankers lying at anchor in Lake Maracaibo awaiting birth at loading dock



View from the bow of a lake tanker entering Lake Maracaibo



View of the oil wells in Lake Maracaibo from the deck of a lake tanker



Lake tankers tied up at the unloading dock in San Nicholaas harbor. The lake tankers shown in this photo were built in the US during the war to replace the lake tankers that were torpedoed.





MISC. PHOTO: Marker for the dive location



MISC. PHOTO: Another view of the propeller as it is being cleaned

# Photos of U-156 Officers

Photos from the Aruba Esso News - February 16, 1962



Captain Werner Hartenstein, commander of U-156



Gunnery Office Lt. Dietrich von dem Borne who lost his foot.



German propaganda poster about the attack, the caption on this poster has been translated. It reads as follows:

February 12, 1942, German submarines invaded the Caribbean Sea, sank three tankers with 17,400 tons by the coast of Curacao and Aruba and fired at the oil refineries on these islands where the raw oil from Venezuela is processed. Due to the lost tankers the already heavily effected oil transportation to England and the United States suffered tremendously. Curacao and Aruba are in Dutch possession. After Holland's capitulation in May of 1940 these islands were taken over by England, and later by the United States after they entered the war. The

submarines fired at factories that lubricated the war machinery. Thousands of tons of oil burned. The oil refineries were destroyed.

This, of course, was German propaganda, four lake tankers were torpedoed but no refinery was destroyed.





Top illustration photo is a drawing of a Type IXC U-Boat, below, left & right, shield and insignia from U-156, from: <u>www.uboat.net</u>.



### The Log of U-156 From ARUBA SHIPS By: Bill Moyer

#### 14 Feb. Caribbean Sea

**0000** EC 9348 (map coordinates) Surfaced. Steered to the southeast corner of Aruba. Colorado lighthouse in sight. EC 9347 ENE 5, sea state 4, pertly cloudy visibility 6 miles.

**0400** EC 9289, ENE 4, sea state 3, partly cloudy, visibility 4 sea miles. Colorado lighthouse 1 sea mile on starboard beam, course 2702. Ran one sea mile along the coast to Nicholaas haven (San Nicholaas Harbor). Entrance to harbor at 900 meters distance. Slow passage made. Reconnaissance of harbor disposition. In port were 4 large tankers, at roadstead 3 small tankers. Factories well lighted, in and out traffic also at night.

0600 At slow speed proceeded northwest along coast to Oranjestad.

**0640** off Oranjestad. Off harbor entrance. Little activity in port.

**0647** Hooiberg 331, 5.5 sea miles dist. Avoided patrol craft. Stayed at Oranjestad until 0700. Docks empty.

**0730** Northwest point 30, 3 sea miles dist. Proceeded on westerly course to reconnaissance merchant ship lanes.

0819 ENE, 4, sea state 3, very cloudy, visibility 5 sea miles on bearing 2902 sighted merchant ship on a 280 degree course. At 1059 turned off. Proceeded to Oranjestad.

**0930** Northwest point 8O degrees, 17 sea miles dist. 1200 Northwest point 52 degrees, 5 sea miles dist. ENE 5, sea state 4, partly cloudy, visibility 8 sea miles. Distance sailed: 112 s.m. ow (over water) 21 s.m. uw (under water) total 133 s.m. (sea miles)

**1221** Clearing. Dived to observe entrance to Oranjestad. Little traffic

**1248** Northwest point in 44,5 degrees, 4, 4 sea miles dist. Until dusk stayed submerged. On bearing 170 degrees tanker on course 250 degrees, leaving Nicholaas haven. At airport 2-42 meter airplanes. Lively air activity in early morning

Signed: Hartenstein

#### 15 FEB Off Aruba

**0130** Colorado in 1O1 degrees 11 sea miles dist. ENE 5, sea state 4, considerable cloudiness, visibility 6 sea miles. Surfaced. Proceeded at 170 degrees, close to the Maracaibo-Nicholaas haven merchant ship sea lane.

**0230** Colorado 90 degrees, 12 sea miles dist. Practiced attack maneuver on tanker. Proceeded east course.

**1000** Proceeded toward Nicholaas haven.

**1200** ENE 5 sea state 4, considerable cloudiness, visibility 30 see miles. Distance covered: ow 27 sm, uw 11 sm, total 38. 1220 Colorado 32 degrees, 3 sea miles dist. Dived to observe entrance to Nicholaas haven. Considerable activity. Harbor well occupied. proceeded westward thereafter. Official message received. Directed to all Western Hemisphere submarines. (1) The principal assignment is to attack ship targets. (2) If this attack is successful then artillery attack against land targets can be made in the morning, Western Hemisphere time, should opportunities for this be favorable. (3) When no ship targets are encountered, artillery attack against land targets may be made toward evening, West. Hem. time.

1600 Hooiberg 54 degrees, 9 sea miles dist.

**1855** Hooiberg 72 degrees, 22, 5 sea miles dist., East 5, Surfaced. Proceeded on west course. sea state 4, cloudy, vis. 12 sea miles.

**2000** Hooiberg 69 degrees 27 sea miles dist., East 5, Returned. Proceeded slowly to NW corner of Aruba. sea state 4, light clouds, vis. 12 s.m.. Sighted modern passenger freighter 7000 BRT. Proceeding 120 degrees toward Nicholaas haven or Willemstad. Avoided several sailing vessels.

Signed: Hartenstein

#### 16 FEB

**0000** Hooiberg 72 degrees, 21 sea miles dist., ENE 5, sea st. 4, lgt. clouds, visibility 6 sea miles.

**0400** Hooiberg 82 degrees, 9 sea miles distant. Proceeded east course Oranjestad.

0500 Hooiberg 92 degrees, 7, 6 sea miles dist.

Off Oranjestad. Lighted tanker being loaded at pier. Proceeding to Nicholaas haven.

Off Nicholaas haven. With L.F. up, proceeded toward two anchored tankers.

Colorado 552, 2 sea miles dist. Under-water bow shot at tanker. Explosion after 48.5 sec. Tanker burned immediately. 3080 tons. ATO 2,5,40,E-5 (range & bearing.) Direct hit amidships.

Underwater bowshot at tanker. Explosion after 53.2 sec. Tanker burned immediately. 2740 tons. ETO 2,5,30 E-5. Direct hit amidships. 0??? Proceeded at 300 degrees for artillery attack against refineries and tanks. Artillery ready. 0811 Fire opened against land targets. 10.5 cm. gun, first shot, gun exploded. Two seriously wounded. 3.7 cm gun, 16 shots. Attacking position poor since there was no night light visibility. Observed one short, quick flame on land. Discontinued fire because of no results.

Proceeded at high speed toward Oranjestad. Patrol craft on course Oranjestad— Nicholas haven passed at distance of 400 meters searching with weak searchlight. Turned off. Searchlights also from land. Colorado 99 degrees, 9 sea miles dist.

Proceeded toward Oranjestad 0900 Seaman Businger died of his wounds. Second Watch Officer lost foot. Bleeding stopped.

off Oranjestad. Headed toward tanker at pier. Underwater bow shot at tanker. Course shot was 54 degrees, No explosion. ETO, 3.30 E-6. Unexplainable miss.

New attack. Under-water bow shot at tanker. Course at shot 29 degrees. No explosion. ETO 3.30 E-6. Unexplainable.

Turned for stern shot. Under—water stern shot at tanker. Course at shot 190 degrees. Another miss. After 1 min. 29.5 sec. explosion on beach.

Aircraft alarm. Stopped. 0947 End alarm. Did not dive. Ran towards north in order to operate by day northward of Island toward Mona passage. Don't expect any of the large tankers to leave today. It seems to me the best thing to do today is to operate on newcomers.

**1200** EC 9218, East 5, sea state 5, light clouds, vis. 6 sea miles, swells east 3. Distance covered: o.w. 85 s.m., u.w. 28 s.m., total 113.

**1228** Radio message transmitted: Protection only from search-light, aircraft and one patrol boat. Sank two tankers 5800 tons, 2 missed shots against tanker at pier. Gun exploded. Two men seriously injured, one of whom is Second Watch Officer. May I go to Martinique to drop them off? 159 cbm.

Signed: Hartenstein (relayed by another boat, understood by higher authority.)

**1600** EC 9222. ENE 4 sea state 3, considerable cloudiness, vis. 12 sea miles. Swells E 3-4. At 1247 hours ran continuously at 60 degrees toward Martinique. At same time, searched ship lanes north of Aruba and Curaçao. Saw nothing.

2000 EC 6395, ENE 6, see state 5, partially cloudy, vis. 1 2 sea miles.

Signed: Hartenstein

**17 FEB** North of Aruba

**0000** EC 6972, E 4 sea state 4, considerable cloudiness. Visibility 6 sea miles.

**0100** EC 6957 Evening position 132 25' N, 682 572W. Burial of Seaman Businger. Radio message received: To Hartenstein. Am considering your request to drop off wounded.

0400 EC 6953, E 4, sea state 4, cloud, rain. Visibility 3 sea miles.

**0720** Radio message received: You may proceed to propose island. Leave wounded. Report soonest.

**0800** EC 6938, E6, sea state 5, considerable cloudiness, vis. 4 sea miles.

**1200** ED 4714, EXS 4, sea state 4, cloudy, Distance covered: 112 s.m. visibility 6 sea miles

**1230** ED 4714 Morning position: 1 3257, 5N, 68223, 5.W.

**1335** ED 4712 Trial dives. 1514 EXS 4, sea state 3, light clouds, vis. 12 sm. Surfaced. Run continued. Difficult headway against trade winds. Short steep sea.

**2000** ED 4491 EXS 5, sea state 4, cloudy, visibility 12 sea miles. At 60 degrees proceeded north because by experience have found the limits of trade wind area lies at 15N. This makes a detour of 30 sm worthwhile.

Signed: Hartenstein

#### 18 FEB

**0000** ED 4545 Because of a cross sea from 80 degrees – 120 degrees, high consumption of fuel.

**0140** ESE 4, sea state 3, light clouds, visibility 5 sea miles. Radio message transmitted: (1) Air patrol off Antigua. Heavy single traffic in the middle and upper right portion of square 88 appears to radiate from Trinidad. (2) in operating area, no lights until Colorado and harbor lights. Factories were well-lit. There were always 2-4 large tankers in main harbor. Out going traffic mostly west-northwest; also north. Small tankers sail loaded 4 meters deep. Confirmed by hits. Best hunting from 0000 to 0800. (3) Seaman Businger died. Second Watch Officer lost foot. Stopped bleeding. (4) Steering towards Fort de France. 150 cbm. Position 8894.

**0400** ED 4528 ESE 4, sea state 3, partially clouded, light rain, vis. 4 sea miles.

**0800** ED 4532, ESE 3-4, sea state 3, considerable cloudiness. Visibility 14 sea miles.

THIS ENDS THE LOG





MISC. PHOTO: Out of the water!



MISC. PHOTO: Crowd watches as propeller comes out of water

## **OIL PRODUCTION AT LAGO REFINERY**

VEAR	LAGO'S OUTPUT	ESSO'S TOTAL WORLD OUTPUT	LAGO'S OUTPUT
TEAK	IN 1000 BARRELS/DAY	IN 1000 BARRELS/DAY	AS % OF ESSO WORLD OUTPUT
1932	53.3	513.7	10 %
1933	109.1	589.1	19 %
1934	138.1	659.1	21 %
1935	162.8	689.3	24 %
1936	185.3	762.1	24 %
1937	225.5	856.5	26 %
1938	221.7	818.1	27 %
1939	227.6	849.8	27 %
1940	168.7	810.4	21 %
1941	228.0	930.5	25 %
1942	147.1	720.3	20 %
1943	222.4	874.6	25 %
1944	280.7	1,069.2	26 %
1945	298.3	1,120.4	27 %
1946	330.7	1,221.3	27 %
1947	359.6	1,343.2	27 %
1948	367.1	1,514.9	24 %
1949	376.4	1,452.7	26 %
1950	405.9	1,639.5	25 %

### 1932 TO 1950

A BARREL IS 40 GALLONS

The war years, denoted by darker numbers, shows a drop between 1941 & 1943 caused by the loss of four lake tankers. After the attack U. S. Navy escort slowed the turn-a-round time further, thus cutting the refineries supply and production. In 1943 new lake tankers arrived and production increased. The production drop in 1939 – 1940 was caused by the war in Europe.



#### LAGO OIL AND TRANSPORT CO., LTD. Aruba Refinery

February 28, 1945

#### NOTICE

#### To: ALL LAGO COLONY & LAGO HEIGHTS RESIDENTS

WHAT :	A Blackout
WHEEN:	Today, Wednesday, February 28, 1945.
TIME:	7:30 p.m.
DURATION:	Until Naval Authorities are satisfied with blackout:
SUGGESTION:	Blackout as quickly and as completely as possible and the duration will be shorter.
HIMT:	There will be no advance notice on black- outs to come.

COLONY SERVICE DEPARTMENT

MISC. PHOTO: Blackout notice dated 1945 for Lago Colony & Lago Heights.

# Defense of Aruba

### 1940 - 1942 CAMERON HIGHLANDERS SCOTLAND





Cameron Highlanders insignia and tartan



Highlanders on parade in Saveneta, Aruba



Cameron Highlanders march through refinery and into Lago Colony The bagpipers lead the parade



American and Scottish troops pose together on the day of the transfer of command


### American Troops 1942 – 1945 252nd COASTAL ARTILLERY BATTALION American troops replaced Scottish troops in 1942.



American troops on parade in Oranjestad, Aruba



**GUARD DUTY - LAGO REFINERY WWH** 



Torpedo at Eagle Beach Unexploded torpedo fired on 16 Feb. 1942 by U-156 at the Arkansas, berthed at Eagle Pier. Inspected by Dutch, left, and US Army Officer, Cap.Robert Bruskin. Four Dutch marines were killed when trying to take it apart and it exploded.

Photo of torpedo on Eagle Beach before it exploded, killing four Dutch Marines



7.5 inch gun, one of three on the island at the time of the attack was manned by Dutch Military Personnel. These gun emplacements can still be seen; they were not fired the night of the attack because of the smoke from the burning ships that hindered the view.



Remains of "Panama Mount" for 155-mm Howitzers located at Colorado Point, there were four of these mounts with guns at this site. These "Panama Mount" emplacements allowed the Howitzer to fire 360 degrees and can still be seen at the top of Colorado Point on the east end of Aruba.



Insignia of the Coastal Artillery





U-boat shell dented oil tank (below) while another one hit a door frame.

MISC. PHOTO: From an Aruba Esso News, shows the damage done by the 20 mm shells fired by U-156.



MISC. PHOTO: TV crew goes out with the divers on the last dive.

# Pilots of the 32<sup>nd</sup> Fighter Squadron



Top row, left to right: 2Lt. Edward M. Beaver 2Lt. Arthur E. Qualtney (killed in a P-38 in Panama) 2Lt. James J. Epscamp 2Lt. Gerard F. Cavanaugh transferred to ETO, 95th Squadron P-38's. 2Lt. Francis P. Hanlon transferred to ETO, 95th Squadron P-38's, killed in action June 10 (or 16), 1944 2Lt. Robert B. Koster - killed in mid-air collision over France Field, Panama.

Bottom row, L to R: 2Lt. Louis Grillo - transferred to P-38's out of 32nd, retired as colonel. Captain Virgil Roan, deputy CO at Aruba; Captain Charles E. Ramsey, CO at Aruba, retired as colonel. 2Lt. Robert B. Schick 2Lt. Edward Slaughter - retired as major.



Douglas A-20A



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MISC. PHOTO: Dick getting suited up to dive



MISC. PHOTO: Site where the monument will be placed, to the right of the light pole.

### Fact About Diving Deeper Than 130 Feet

THIS INFORMATION IS PROVIDED TO STRESS HOW DANGEROUS THIS TYPE OF DIVING IS AND THE RISK TAKEN BY THE DIVE TEAM TO RETRIEVE THE PROPELLER.

#### A Few Things Your Sport Diving Instructor May Not Have Told You about Deeper Diving

By Larry "Harris" Taylor, Ph.D. Diving Safety Coordinator University of Michigan Ann Arbor, Michigan

This is from an article that appeared in SOURCES (Nov/Dec. 1991, p. 63-68 & THE BEST OF SOURCES, p. 37-41).

> ACRONYMS USED IN THE ARTICLE DAN = Diver's Alert Network ffw = feet fresh water fsw = feet sea water ppm = parts per million

There is an incredible fascination with diving on intact shipwrecks. In the quest for this thrill of diving unmolested wrecks, some divers in the Great Lakes are diving on compressed air in the vicinity of 200 ffw or deeper. A few of these "sport divers" have taken years to develop skills, technique and equipment that allow them to survive these penetrations into that deep, dark, cold and silent world that lies beneath the sport diving limit of 100 - 130 Feet. A few are truly highly skilled diving adventurers. Some would call them pioneers. Others would call them something less dignified. It is true that some walk with a noticeable limp, stand a little funny (numbness in the legs), have difficulty remembering things or seem to have somehow slowed their thinking and speech processes. None-the-less, many of these diving adventurers have seen splendors that not many will ever know. Other diving "adventurers" have found unique pains and death.

Divers new to our sport often do not realize that the successful deep diver has generally taken a decade or more to develop the necessary skills, equipment and technique to survive consistently this deeper diving. Make no mistake; some of these divers are highly skilled and physically fit. That exceptional proficiency, however, was not acquired in only a few days or even years. Although most are self-taught, many of these deep divers were trained when diving courses were longer and discussions on diving physics and physiology was more extensive. Thus, they have had access to information often missing in today's shorter curriculum ... material that is essential to make informed risk/benefit assessments. There are distinct physiological problems associated with deep diving. Since divers do not breathe water, the physiological impairments caused by deep diving can be (and have been) life threatening. Sport "deep diving" courses are simply insufficient training for diving to depths "below the limits." Divers compelled to dive below 100 feet should consider commercial or military dive training - depths below 100 feet are beyond the realm of sport diving...Sport diving equipment and techniques no longer are adequate! In addition, the training agencies will not, for a variety of reasons, address the question of training, at this time, for diving below 100-130 feet.

There are those who earn their livelihood diving at depths below 100 feet. Many of these commercial divers would consider sport divers foolhardy for diving under conditions a professional would consider to be too dangerous. Note that commercial operations are conducted under federal/state OSHA regulations. Recreational and scientific diving is specifically exempted from these regulations. (Scientific diving, however, operates under similar guidelines promulgated by the American Academy of Underwater Sciences.) Whenever any employer/employee relationship exists, these rules do apply. This means even if the diver is volunteering services and equipment, nonrecreational, non-scientific diving may be subject to federal/state occupational safety regulations. These federal regulations decree that all dives more than 130 fsw (some states have tougher regulations; Michigan, for example, places the limit at 100 feet) or any dive requiring decompression be conducted with a tender for each diver, a stand-by safety diver, a surface decompression chamber on the dive site, and an adequate supply of breathing gas for the diver, the stand-by diver and the recompression chamber. The law specifies that the vessel used as a diving platform be Coast Guard approved and commanded by a Coast Guard licensed operator. A designated "diving supervisor" who insures that all OSHA regulations are met during the dive operation must control the diving. There are additional requirements specifying the first aid equipment, including oxygen, which must be on the dive site. The law also requires that a complete time/event log be maintained. The British government mandates that all diving more than 165 fsw under their jurisdiction be done on mixed gas. In today's liability conscious society, most legitimate diving contractors will exceed the minimum OSHA standards.

Since federal diving safety regulations prohibit non-recreational scuba operations below 130 fsw, commercial/scientific diving is often a single diver down mode with a tended tether, surface supplied breathing gas and some sort of dry face mask/helmet equipped with hard wire communications. This equipment significantly increases the safety of the diver. The communication system allows the surface support personnel to monitor the diver's psychological and physiological status. Surface control of the entire dive operation minimizes task loading on the diver. This insures that potentially narcosis-free surface support personnel make life threatening/saving decisions. The dry mask/helmet provides mechanical and thermal protection for the diver's head and face. More importantly, it gives the diver a dry atmosphere that is breathable if a blackout occurs.

Commercial operations must be conducted with redundant equipment and personnel. It is this contingency for the unexpected that increases diver safety. This redundancy is most often missing in deep sport diving excursions. (This equipment is beyond the finances and training of most in the sport diving community.) Thus, the deep sport diving adventurer has very little, if any, margin for human error.

There are significant physiological problems in deeper diving. These include:

BLACKOUT: Divers have been known to suddenly lose consciousness. This may be from carbon dioxide toxicity, carbon monoxide poisoning, severe decompression sickness, drowning (loss of regulator because of malfunction; more likely a result of snag or hindered regulator exchange at depth; vomiting from seasickness followed by aspiration of seawater, etc.), hypoglycemia, hyperthermia, hypothermia, hypoxia from equipment malfunction or miscalculation of breathing gas composition, severe nitrogen narcosis, oxygen toxicity, pulmonary barotrauma of ascent (air embolism), or syncope of ascent.

Each specific loss of consciousness under water may be due to a unique combination of environmental, equipment or diver physiology factors. It is not possible to predict each diver's vulnerability in absolute terms. Conditions which mav increase the likelihood of unconsciousness include: low blood sugar, either from dieting or sustained workload, fatigue from lack of rest or sustained workload, being too warm or too cold, dehydration, drugs, particularly anything that has a warning label about "not operating machinery," anxiety/fear and inexperience. Surveys have shown that the inexperienced diver often is the most at risk. If a commercial/scientific diver loses

consciousness, he/she continues to breathe a dry gas inside the mask/helmet; the lack of diver response alerts the surface communicator that a problem has occurred. Often, the communicator is aware of a problem before the diver and can initiate steps to alleviate the problem. Two-way communication is a vital safety feature often missing in sport diving situations. If a sport diver loses consciousness, there is concern that a sport diver's regulator will fall out of the mouth. The sport diver then attempts to breathe water and drowns. In addition, the unconscious diver must depend on a buddy, if present, to insure return to the surface.

The cave diving community has noted a condition where the diver simply appears to fall asleep. The eyes remain open; the diver does nothing but breathe. In these cases, the regulator, for unknown reasons, has remained in the mouth. The victims, rescued by their buddies, recall no warning signs. In the 15 reported cases, all victims were on their deepest ever dive.

**CARBON DIOXIDE (CO<sub>2</sub>) TOXICITY:** Carbon dioxide is the normal waste product of human metabolism. As more work is done, more  $CO_2$  is generated. A person in poor physical condition may generate 2-4 times the amount of  $CO_2$  as someone who is in excellent physical condition while doing the same workload. At depth, the density of the breathing gas increases. This increases the work associated with breathing and may lead to inadequate pulmonary ventilation. It is important for divers to realize that on scuba the  $CO_2$  comes from internal body chemistry, not from the gas being breathed. It is the inability of the body to eliminate this waste product that creates the problem. This means that  $CO_2$  can be a significant problem in deeper diving.

Symptoms of high CO<sub>2</sub> usually begin with increased rate of respiration. There is often the feeling that the regulator cannot supply enough air. This may lead the diver to conclude falsely that an out-of-air emergency exists. This feeling of inadequate respiration may be accompanied by a feeling of constriction around the chest, heavy perspiration, lightheadedness, or headache. The headache commonly is an intense pain in the center of the forehead. This "CO2 hit," the feeling of total inadequacy to breathe, can be a terrifying experience. Underwater " CO<sub>2</sub> hits" can easily lead to panic. Panic can lead to an uncontrolled "escape" to the surface. This panicked ascent can cause a fatal cerebral air embolism. A diver doing work at depth, however, may little. any, warning of CO<sub>2</sub> problems before losing have if consciousness. Again, loss of consciousness under water in sport diving equipment has a low probability of survival. In addition, it is

believed that high CO<sub>2</sub> increases the likelihood of decompression sickness, nitrogen narcosis and oxygen toxicity.

If the diver is aware that a  $CO_2$  problem is beginning to occur, the diver should stop all activity and initiate slow, deep breathing until perceived symptoms are eliminated. It is wise to continue resting a bit once relief is felt and to proceed at a slower pace. Note that most experienced divers develop a slow breathing pattern. This means a routinely high  $CO_2$  level during diving activities. Work, coupled with poor physical condition, aggravates the problem. It is also believed that oxygen enriched breathing mixtures can increase  $CO_2$  retention.

CARBON MONOXIDE (CO) TOXICITY: Despite the tendency to blame diver unconsciousness on this malady, it is rarely observed. Carbon monoxide is primarily generated from incomplete combustion. It can be present in the air supplied from faulty compressors (electric, as well as gas driven) or taken into the compressor intake from a CO source such as a kerosene heater, gas or diesel engine exhaust or cigarette smoke. The CO binds to hemoglobin about 200 times tighter than oxygen. This means the hemoglobin that has reacted with CO will not carry oxygen. Lack of oxygen can be fatal. The uptake of CO is dependent on the concentration of CO in the breathing gas, on respiration rate and the time of exposure. Symptoms may include: frontal headache, nausea, tingling in the fingers and toes, lightheadedness, vision disturbances or loss of consciousness with no warning. The often-quoted cherry red lips or fingernails are a very unreliable sign and may only be visible at autopsy. At depth the increased partial pressure of oxygen may mask some of the hypoxia created by the oxygen deprived carboxyhemoglobin. On ascent, the hemoglobin will still be compromised, but the decreased pO2 will no longer compensate and unconsciousness occurs without warning.

Finally, the U.S. Navy pure air standards for breathing compressed air allow only 20 ppm CO in scuba air. Smoke from an American cigarette typically contains about 4% (20,000 ppm) CO. The average inhalation of a smoker contains about 500 ppm CO. This means that finishing a cigarette just before a dive will make about 3 -7% of the hemoglobin in the blood unable to carry oxygen. The oxygen carrying capacity of the red blood cells will be diminished for 5-8 hrs after the last exposure to smoke. Breathing smoke, actively or passively, will decrease the ability of the blood to carry oxygen and this decrease in efficiency may contribute to decreased performance at depth.

**DECOMPRESSION SICKNESS:** The risk of permanent tissue injury increases with depth. Many sport divers have been given the impression that "the bends" is a benign disease. That simply is not true. The bends can kill, but most often it cripples. The DAN numbers show more than 500 divers a year now require chamber treatment. After 3 months post treatment, 13% of those treated still show some residual impairment. Severe sport diver bends hits most often show spinal cord involvement. This means that anything "South" of the lesion will be impaired. The spinal cord mediated functions most often tainted are walking, urinating, defecating, and sexual response. So, if you like to walk without a cane or wheelchair, go to the bathroom unassisted or to have sex, it is worth your while to develop some understanding of decompression sickness and its prevention. (A recent national survey reported in Skin Diver magazine noted that approximately 60% of those in the sport diving community surveyed could not recognize the symptoms of the bends and almost every survey of divers done recently suggests that more than 50% of sport divers cannot plan dives using decompression tables.)

A real danger of decompression sickness is that it is often a progressive disease; it may continue to get worse until treated. In North America the time from onset of recognizable symptoms to chamber treatment is often more than 12 hours. It is this delay that can be so devastating. It is believed that the longer the delay between onset of severe symptoms and treatment, the less the chance for total recovery. During the delay the bubbles formed continue to impair or destroy body functions. The key to successful recovery from the bends is immediate recognition of symptoms and the prompt administration of the highest possible concentration of O<sub>2</sub> (preferably by demand mask). Medical consultation/treatment should always be sought. Not recognizing or ignoring the symptoms may allow the disease to do more damage. Although there are anecdotal stories of acute relief of decompression sickness symptoms without medical treatment, there is a lingering question of the potential for long-term damage even though immediate clinical signs were absent or simply went away.

The problems linked to decompression sickness can primarily be called "bubble trouble." Whenever bubbles form, they obstruct normal body function. This may prevent normal exchange of nutrients and oxygen and allows waste products to accumulate. This can, over time, create destruction of body cells. Medical evidence is beginning to accumulate that suggests there may be gradual deterioration of nervous system tissue upon repeated exposure to deep diving. It is believed that this damage can occur without ever showing gross clinical signs (i.e. joint pain, etc.) classically associated with decompression sickness hits. Although still far from complete, early studies seem to imply that there is a marked deterioration in short-term memory and reasoning skills in commercial divers aged 24-39. Autopsy studies of three deep divers who died of non-diving related causes indicated that there was a marked degradation of spinal cord tissue. It is believed that the spinal cord lesions were created from diving. Although controversial, there is some evidence that deep diving can block retinal blood flow and create vision problems due to a damaged retina. Additional studies measuring blood chemistry and urine of divers imply that the liver, as well, may be damaged in divers diving as shallow as 30 meters (98 feet).

The body is a remarkable biochemical machine with much redundancy. It can sustain some tissue damage that can be compensated for by this redundancy. However, repeated exposure to tissue-damaging conditions will ultimately result in loss of function.

Bottom line: The DAN numbers suggest that diving below 80 fsw is a significant risk factor for sport divers (more than 70% of DAN treatments involved sport dives to depths below 80 fsw). The deeper and more often this deep diving occurs, the more the risk for long-term neurological damage. It is not possible to predict the type and severity of this physiological impairment.

NITROGEN NARCOSIS: Many sport divers consider the "high" associated with narcosis to be a desirable event. This reflects a lack of understanding of the dangers associated with breathing compressed air at depth. Nitrogen is physiologically inert (not consumed in metabolism), but it does dissolve in body tissues. As more and more nitrogen dissolves (Remember: Henry's Law), the abundance of nitrogen interferes with the nervous system. The more nitrogen present, the more likely there will be a loss of performance. The result is impairment of intellectual capacity, degradation of neuromuscular performance and changes in mood and behavior. The narcosis effect poses a significant danger to the diver because as it increases the risk of an accident due to inability to perform at depth, it decreases the diver's perception that any problem may exist. Direct injury (aside from short term memory loss) from narcosis is unlikely. The danger is people do not breathe water. Under the influence of narcosis, divers may make inappropriate decisions that place them at risk. (Such observed diver decisions have included removal of life-support equipment at depth.) The degradation of performance and perception caused by narcosis is often claimed to be the primary reason for the sport diving limit of 100-130 fsw. (Historically, however, the US Navy used the 130-fsw as the limit because this was considered the deepest

depth that divers could do useful work while breathing from a two hose style regulator (state-of-the-art at the time the limit was imposed.))

There is a marked variation in susceptibility to narcosis. This variation is not predictable. Thus, it is not possible to equate absolutely symptoms observed with depth. Some divers may be affected at 80 -90 fsw or even shallower. The effects may vary within the same diver from day to day. The physiological degradation begins within moments of reaching depth and increases with further descent. The higher mental functions such as ability to reason - to make potential life-saving judgments, to remember recent events, to learn new tasks and to focus concentration on a specific task are first affected. (One reason for commercial hard wire communications is so that surface personnel can monitor a diver's ability to function and remind the diver what is to be done.) In warm, clear water divers may first feel euphoric and overconfident ... sort of like the "Do what you will, you can't hurt me feeling" that arises from breathing nitrous oxide (laughing gas) at the dentist's office. In cold, limited visibility water or in water where neither the surface nor the bottom is visible, the diver may develop a sense of foreboding or impending doom. This sense of doom may escalate to terror and panic. As depth increases, progressive impairment of both physical and mental skills increases. The diver may feel drowsy. Idea fixation and hallucination may occur. Some divers may note a narrowing of vision, like looking through a narrow tube. It is common for a "narced" diver to forget the reason for the dive. One reason that deep diving sport divers take pictures is that often they can't remember what they saw on the dive. Short-term amnesia is a common aftereffect of narcosis. The photos (if recognizable) tell them that they were at least somewhere near a wreck. Nitrogen narcosis is aggravated by high CO<sub>2</sub> levels, anxiety, cold, fatigue and medications, particularly sedatives (anti-motion sickness remedies?) and alcohol. There are anecdotal reports that women will show shallower onset and increased severity of symptoms when diving during periods of normal fluid retention.

Narcosis is easily avoided by liberal applications of common sense. Simply confining dives to shallower than 90 fsw will most likely eliminate most narcosis problems. Ascent when symptoms are recognized will relieve the physiological compromises that narcosis generates. Relief is generally rapid on ascent.

Bottom line: If you are human and dive below 90 fsw breathing compressed air, then your normal human physiology will be impaired and it is impossible to predict the severity of your inability to perform.

**OXYGEN TOXICITY:** Oxygen is a component of the air we breathe. The body uses chemical reactions based on oxygen to generate heat and chemical energy. It is this process called metabolism that keeps us alive. Oxygen reacts chemically with many different substances. The rate at which oxygen will react (oxidation) with another chemical compound in the body is determined, in part, by the partial pressure of the oxygen in the breathing gas mix. As we descend in the water column, we increase the partial pressure of all gases, including oxygen. Reactions with oxygen will therefore increase. Some of these oxidation products can have harmful effects on human beings. The exact mechanism of these harmful effects is not yet understood.

High oxygen concentrations affect the central nervous system in a variety of ways. Observed symptoms, which may appear alone or in any combination, include: nausea, vomiting, lightheadedness, dizziness that may increase to vertigo, ringing in the ears, a feeling of impending collapse, excessive perspiration, slowing of the heart rate, tunnel vision, muscle twitching, particularly around the mouth and facial area, dilation of the pupils, generalized peripheral muscle twitching, hiccups, amnesia, hallucination and mental confusion. The symptoms can lead into a "grand mal" epileptic-type seizure. This seizure may appear without warning. A grand mal convulsive seizure at depth in sport diving equipment is not considered to be a survivable event. Increased physical activity, excitement or anxiety, and being too warm at depth apparently increase the risk of an oxygen toxicity problem. The susceptibility of individual divers to oxygen toxicity cannot be predicted. It is now believed to be dependent on the individual's body chemistry on the actual day of diving. The once used "oxygen tolerance test" is no longer considered reliable.

It used to be believed that if the diver were breathing a gas containing less than 2 ATA partial pressure of  $O_2$ , that potential oxygen toxicity problems would be eliminated. This corresponds to a depth of 33 fsw for breathing 100%  $O_2$ . That is no longer current thinking. Current practice is to avoid breathing gas that has a partial pressure of more than 1.6 ATA (19 fsw on 100%  $O_2$ ; 218 fsw on air) or to even a lower p  $O_2$ . Oxygen toxicity seizures have been observed in divers breathing compressed air in the 220-fsw range. This observation suggests to avoid acute oxygen toxicity hits, dives on compressed air should not exceed 180 fsw.

There are other problems that could result from the practice of breathing pure  $O_2$  at depth (during decompression stops?). There are some medical authorities who consider 100%  $O_2$  at elevated pressures a cellular toxin. Breathing pure  $O_2$  at elevated pressures for extended

times can induce abnormalities in the red blood cells that carry  $O_2$  to the body. High  $O_2$  concentrations can constrict blood vessels in the eye and lead to visual problems. In addition, high  $O_2$  can create a mild hearing loss that may appear hours after the dive and take a day or so to disappear. High p  $O_2$  has also been proposed as contributing to dysbaric osteonecrosis ("bone death"- usually seen in deep diving commercial divers; this malady may eventually require surgery to replace bone joints with artificial devices.)

Bottom line: The potential for grand mal seizure and subsequent death caused by oxygen toxicity makes diving below 180 fsw in sport diving equipment on compressed air an extremely high risk activity. Below 200 fsw many diving authorities believe that oxygen toxicity poses a greater risk to the diver on compressed air than nitrogen narcosis.

**SYNCOPE OF ASCENT:** This refers to the unexpected transient loss of consciousness that may be due to partial breath holding during ascent. It is believed to be caused by the expansion of gases within the thoracic cavity that interferes with venous blood return. This lack of returning blood to the heart reduces cardiac output. The reduced blood flow to the head causes loss of consciousness. In sport diving equipment, this loss of consciousness could lead to loss of regulator and subsequent drowning.

**UNEXPLAINED BEHAVIOR:** The effects of pressure on human physiology and psychology are often unpredictable. Hyperbaric medicine is not yet an exact science. Divers have been known to exhibit, for no known reason, behavior that is contrary to survival. For example, I was with a diver along a sheer rock wall at a depth of about 25 feet of water. We had been down for 18 minutes (following a 2 hr and 10 min surface interval from a wreck dive of 15 minutes in 40 F water at a maximum depth of 108 feet.) We exchanged "time-to-turnaround-and-head-for-the-dive-boat" signals (a touch to the watch and the "thumbs up") and the diver's "O.K." The diver then turned and headed straight for the bottom. The diver was near 60 feet before I reestablished contact and asserted control. When I caught the diver, I grabbed the shoulder and rotated the diver so that I could see the face. It was as if I were waking the diver from a deep sleep. The diver, even when prompted with eyewitnesses' accounts, has no recollection of the entire episode. After several years, the event is still unexplained.

**RISK: REAL OR THEORETICAL?** There is a wreck, the Gunilda, which lies at 256 ffw in the Great Lakes. Since it has historical significance and lies close to the Canadian shore, the diving activity on

this vessel has been monitored. To date, there have been 26 divers who have visited this wreck. Twelve of these divers (operating under commercial-type protocols) account for 136 dives on this vessel. Within this group, 1 dive required treatment for severe decompression sickness (to a diver who had 34 dives on this wreck) and there were no fatalities. There have been 14 sport divers on compressed air that have accounted for 33 dives. Of these 33 dives, 9 (27%) have resulted in severe decompression sickness that required chamber treatment, 5 dives (15%) were aborted due to severe narcosis that required the diver to be rescued, and there were two fatalities (6%). In addition, two of these surviving divers, one from each group, have subsequently died on another deep wreck.

The population of sport divers who visited this wreck is small. These divers have seen an awesome spectacle. Not all divers have been visibly injured. However, there were two sport diving fatalities and a high percentage of sport divers requiring treatment for severe decompression sickness. It would appear from this admittedly small survey that diving to 250 ffw on compressed air does, indeed, pose a significant risk to the recreational diver.

It is most interesting to listen to these deep diving adventurers posttreatment. One diver, after leaving the chamber against medical advice, stated that he had experienced "no narcosis problem" at 256 ffw on compressed air. (Remember, short-term amnesia is a common after effect.) This diver went on to state that the bends had produced only a "mild" pain. (Perhaps the "mildness" of the pain could be attributed to the morphine that was administered to this diver by the emergency medical team on the flight to the chamber.)

**FINAL THOUGHTS:** No one has the right to restrict your personal style of recreational diving. Lee Somers, Ph.D., Diving Safety Officer for the University of Michigan and one of the Founding Fathers of our sport, calls this "THE RIGHT TO DIvE!" Dan Orr, Training Coordinator for DAN, calls deep sport diving "an exercise in natural selection." The decision to risk life and spinal cord for the sake of recreational adventure rests with each diver. This risk (loss of life or maybe only a slight compromise in mental faculties, the ability to walk, go to the bathroom unassisted or to have sex) / benefit (adventure, thrill, status, or fame) decision should, however, be based on knowledge and evaluation of the actual risks incurred and not solely on the perceived status of survival.

I once asked a very highly skilled and well-known Great Lakes deep sport diver about diving to extreme depths on compressed air without the redundancy of commercial equipment and personnel. My question, "What do you do alone at 250 feet under the influence of narcosis to deal with an equipment emergency?" His answer, "I die!" Enough said! The decision to dive to "adventurer depths" rests with the individual diver. Choose wisely!

### Acknowledgment

The author, Larry "Harris" Taylor, Ph.D., wishes to express his gratitude to Karl Huggins, Dan Orr and Lee Somers for hours of stimulating conversation about this topic. In particular, he would like to thank Karl for testing the capacity of his answering machine with an impromptu discussion on the deep divers of the Gunilda.

# THIS ARTICLE HAS BEEN REPRINTED HERE WITH THE PERMISSION OF THE AUTHOR.



### List of Those Who Died in World War II from Aruba

The following names can by found on www.lago-colony.com along with their dates of birth, where they worked, and when they died. Look under WORLD WAR II and then go to THOSE WHO DIED.

ADAIR, William T.S. AGNEW, Harold ALBERTUS. B BURNABELA, Humiliano P. **BOEKHOUDT.** Jose Pilatus **BOOM**, Ulises BOROM, Ellsworth, BRINKWORTH, William BURTON, James CAPELLO, Francito L. CARDONA, David Gonzalez CARRASQUILLO. Eddie CICILIA, Claude Benedicto CHANG, Wong Wai CHARLES, Joseph CHEUN, Yong Quia CHONG, Yong Ah CLARINDA, Nicolaas A. COFFI, Antonio C.P. **COFFI**, Juan Cancio **COLBY JR.**, Whitney **CONSTANCIA**, Tito Martis **CORNETT**, James Stewart DAANCHI, Juan DAVIES, Thomas D. DAVIS. P. A. DAWSON, W. J. DCHIN, Tsai **DEBROT.** Charles Marius DE JONG. K. **DELGADO**, Luis Enrique DELLIMORE, John Maitland **DEL ROSARIO**, Jose Mercedes DE MAAGD, Dirk Adrianus C. DEMBROOKE. John Otavo DE PALM, Andres José **DE PALM**, Hubert DE VRIES. J. **DUKHOFF**, Pedrito

DORAN, Gumercinde L. DUNLOCK, John William ECURY, Secundo Jorge A. **EMERENCIANA**, Louis Nicolaas ENRIQUEZ, Octavio Ciorda FARRELL, Desmond FOH, Tan Ah FOO, Mit-Che FORDE, W. St. C. FRIDAEL, L. H. GEMMELL, Neil C. GIBBS. H. L. **GOELOE**, Juan Domingo GONZALEZ, Cardona David **GUILLOT**, Roberto Antonio HAAYEN, Jan F HARGREAVES, J. S. HART. J. A. HASSON, Leonard R. HECKER, Gerardo HOLLAND, Norris Reddon HOLMES, Frank W. HONG, Cheng HOOKER, William O. HYGRELL, Gustaff **IMLER**, Robert ISIJK, Martinus Bibiano JACKSON, Anthony D. JACKSON, Edward J. JANGA, Delfincio G. **JANSEN**, Enrique J JOOSSE, Pieter KANE, Samuel M. KENNEY, Rupert R. KING, Hsu KING. Fa KING, Hsu KING, Lam KOOYMAN. Leonardus KRAAL, Benjamin C. LAGUNA, Rafael LAURENS, Marco L. LAVEIST, Esau E. LEES. David B. B. LEITO, Benito

LINZEY, Eric Norbert LITTLE, Delphis Joseph LOPEZ, Ildenso LOW, Ng Poy LYNCH, Darcey Kenneth MAAS, F. A. MAASDAMME, J. Edward M. MADURO, George, J. L MANUELA, Gabriel A. MARCHENA, Rafael C. MARTIJN. Dominico MARTIJN. Hose Bernardo MARTIJN, Olivero Dominico MARTIJN, P. W. H. MARTIJN, Thomas F. MARTIS, Hendrik Natividad **MAXWELL**, James Andrew McFARLANE, Abrahaam McMASTER, William MILBANKE, George MILLS, James MILLS, William A. MITCHEL, Robert **MOL**, J. J. MOORE, John **MULLER**, Julius August NAN, Wang NUDAM, A. PANNEFLEK. Federico M. **PIETER**, Alberto Gregorio PIETERSZ, Julio S. R. PING, Yu Hong POURIR, David H. P. RAFAEL, Charles H. B. RICHARDSON, George R. RIDGE, John A. RIVERA NORAT, Ruben B. RODRIQUEZ, R. ROSALIA, Jose B. ROSARIA, William F. ROZEBOOM, S. RUSSELL, William M. SCHEELBEEK, A. H. SILBERIE. Marco SHING, Ho Muk

SIMMONS, Benjamin E. SINCLAIR, Roy E. SMIT. C. STOEL, A. Th. TCHAO, Wang. **TEJEDA**, Raul Ernesto THIELMAN, Jose G. THODE, Antonio F. THOMAS, E. St. C. THOMPSON, C. TJIETJIE, P. W. **TROMP**. Bartolo VAN DER HOEVEN, Gerardo VAN DER LINDE, J. VAN MECHELEN, C. A. VAN PUTTEN, James C. VERHEY, J. VERHOEKS, Arturo F. **VOGELENZANG**, Johannes WALKER, Enoch Ditchfield WALKER, James WALKER, James WHITFIELD, Wilson WILSON, Clifford Achilles WILSON, John WINKLAAR, Elias O. WONG, Chang WOODS, Antonio Duran WOODS, Henry Swinton WIJNGANG. M.D.J. YUNG, Wong Tek

# ADDITIONAL LIST OF NAMES WITH NO OTHER INFORMATION KNOWN

Anthony, M. R. Bernabela, H. G. Charlouis, M. T. H. Cicilia, C. E. De Haseth Gorsira, M.C.B. De Jong, K. Dortalina, J. L. Emnes, G. L. Forbes, H. J. H. Goedgedrag, P. V.

Landenga, U. Lyton, J. M. Leito, B. F. Leepelaars, J. Leepelaars, L. W. Lodrigo, H. L. Lourens, M. M. Martes, C. R. Martina, E. A. Martina, P. A. Stelk, E. A. J. Ten Have, A. G. Ten Have, G. Ten Have, K. Ten Have, N. Thode, S. Van den Bert, J. W. Van den Hoevert, N. A. Wensing, H. Wensing, M. T. H. Gosira, M. C. B. Granger, A. D. Hartiel, T. Hooker, W. D. Hommerson, A. G. Jansen, H. C. Knevel, A. M. V. Landenga, J Matrona, E. A. Matrona, M. R. Muller, Statius G. I. Neeleman, W. Rosalina, J. B. Scherptong, L. B. Serberie, S. M. Smiet. L. E. Wensing, Hesselling, M. G. Wingang, M. D. I. Winfield, A. C. Winklaar, A. C. Woods, A. D. Woods, H. S.

#### List compiled by Adolf (Dufi) Kock, Writer/Historian Savaneta, Aruba



MISC. PHOTO: Fund raising raffle for the monument in Aruba



MISC. PHOTO: Aruba Coast Guard looks on as propeller is readied for lift, air bag can also bee seen floating

## Marine Club Plaque to Fallen Members



This plaque hung in the Lago Marine Club, which was located inside the refinery area and down by the docks. It was dedicated to Club Members who lost their lives during World War II. As best can be determined, from people who remember seeing the plaque over the years, when the Lago Marine Club closed, the plaque was moved to the International Seamen's Club where it hung until closed. The Seamen's Club was located next door to the Saint Teresita Church. The plaque was then moved to Saint Teresita Church in San Nicholaas, where it hangs today.



This is the same plaque, showing only the copper sheet with the names, the board to which the copper sheet is attached has been cropped out to allow the names to appear clearer.



## Interesting Numbers and Trivia

### FIRST THE NUMBERS

I got to thinking about monuments to civilians killed because of World War II and wondering how Aruba stacked up against other countries. Just how safe was it for a civilian to live in Aruba during World War II?

As compared to other countries, how much sacrifice did the Aruba population, native and non-native, make during World War II?

Here is what I found.

Aruba's population in the war years was about 35,000, which is probably a little high, but it is based on the average population from 1940 to 1945. These numbers were obtained from the web site shown below.

For the number of persons lost I used Dufi Kock's list of <u>Those Who</u> <u>Died</u>, which has 215 names. This list breaks down to 163 with information about them, age, place of birth and occupation. There are an additional 62 names with little, other than their names, known about them. Again, a few of the persons on the list were military; I estimate about 6, leaving 209 civilian casualties.

Using these numbers, 0.006 percent of the Aruban civilian population gave their lives to the war effort

The English civilian casualties for World War II, as a direct result of World War II are shown as .0014 percent. This includes the civilians killed in the bombing of London and Coventry. This is a little less than a quarter of Aruba's number. In other words, for every one civilian killed in Britain because of the war there were four civilians killed who lived in Aruba. These numbers were obtained from Wikipedia, see below.

For the United States the civilian casualties are shown as .00013 percent. Same source as used for England.

Next I looked at France, a country where a lot of fighting took place. The population of France in World War II was listed as 41,700,000 and the civilian casualties listed as 267,000. This works out to 0.006%.

Based on these figures you can see that Aruba gave a very much larger percentage of its civilian population to the war effort than either the United States or England and Aruba's loss equals that of France.

Granted, these people were not all from Aruba, but they were living there as residents, so for a civilian living in Aruba, Aruba was not as safe as the United States or England during the war.

Causality source for United States, England & France: <u>http://en.wikipedia.org/wiki/World War II casualties</u>

Population source for Aruba: http://www.populstat.info/Americas/arubac.htm

Causality source for Singapore: <u>http://infopedia.nl.sg/articles/SIP\_516\_2004-12-23.html</u>

### TRIVIA

Dick's diary of the dives says the propeller was lifted on April 13, 2009. The passenger ship RMS Titanic struck an iceberg on the night of April 14, 1912 and sank on the morning of the 15<sup>th</sup>. Both the Titanic and the Oranjestad were built by Harland & Wolff in their Belfast shipyards.



Aruba Esso News

### The February 16, 1962, Special Edition, when the story was first told. In English and Papiamento.



the postman commences are accurately any officer about heavy maynif craft. At leavy officer about heavy maynif craft, At was a second to a second of the subtransferred to the command of the subconstrained by the subdiverse in second class, and the German water service. The U.156 was his first subout from Brenen glided the U-156 desout from Brenen glided the U-156 des-

ares; they simulated diving and surfacing control loss. Every battle action that a submarine could expect was practiced over and over. Often the crew did not know whether it was real or another drill. More often the crew grumbled about 'Crazy tined for Kiel and much training for the crew in between. The training was geared to the Spartan simplicity of submarine life. Everything that could happen in battle was simulated. The crew learned about their boat, and they also became well aware, if they hadn't before, that Hartenstein accepted nothing less than perfection. They operated without lights; water was allowed in through a breech; they experienced engine failures; they had pump fail-Out from Bremen glided the U-156 des-Hartenstein. "goC

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J-Boat 156 A Trece Guerra Na Aruba

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IWENTY YEARS AGO

03

U-156 was one of four submarines of the Neuland Group assigned to the Feb. 16 Antilles-Lake Maracaibo strike

February 16, 1962

ARUBA ESSO NEWS

vors. The commander stepped up operational training lest inactivity induce complacency. He still had a long patrol abasd.

heavy underwear, a woolen pullover, heaven winter uni-form and leather jacket, all of which was kept on in bed. West of Ireland, the U-156 dropped off two floating the buoys made the laying difficult, but they had to be These buoys and many others planted by the German Navy and Luftwaffe relayed valuable weather information to meteorologists in Germany. Predominate weather — the prevailing westerlies — moves across the North Atlantic and the British Isles to Germany. Knowing what weather was coming their direction gave the Germans information invaluable to their military plan-The seas were rough and mines were always present. The submarine travelled wide around northern Scotland to the Rockhall Banks, west of Ireland. The trip was a frigid one. The boat was heated by a central heating system which circulated water from its engines' water cooling assembly. But it gave warmth only when the submarine was running at high speeds. The turbulent North Atlantic held the U-boat far below her surface cruising speed of 18.3 knots. There existed an electric heating system, but it consumed a great deal of current. It was rarely used. The crew fortified themselves with double weather buoys. The high seas and cumbersomeness of North through the Atlantic Ocean plowed the U-156. positioned.

warm weather reduced the fting of the cold winds that laced the French arbor. Von dem Borne cusually greesed the patrol would be around the tip of South Africa to the Indian Ocean.

the ception of Hartenstein, who always was positively sure about such things, soon found out where all the supplies were to be stowed. Every possible nook and cranny were utilized. Boxes full of eggs were stacked on tables; in the smons, lockers the length of the boat were jammed with post's tubes, and ten were secured in the watertight ties of food, clothing and arms. The U-156 was only 252 eet long and twenty-two feet at its greatest width. At orty-eight men aboard the U-156, with the possible exussageways hammocks were strung full of bread and codstuffs in jars and can; the tollet in the crews unarters was shut off and used as a locker for canned ood, and a huge crate of potatoes was plopped squarely in the middle of the control room. Nine torpedoes were strapped under bunks, six more were placed in the Ulacement of the huge quant-Preparations for the long journey took eleven days. its highest point it was thirty-one feet. Each of The men pondered over the compartment on the deck.

Jan. 19, 1942, the U-156 left Lorient, France.

The submarine headed southwest, and when she satiled parts has Across the rever assumed their waters of operation would be off the creast of South America. Crossing the Atlantic afforded the crew some warm, learner hours Bersha in writches and training were used to sun hathe Bersha in writches and training were used to sun hathe

> ning. The U-156 planted two. Both were approximately fortymine feet tong meluiting a twenty-worldon antenna. They bobbed in the water and were anchored much life a marker buoy. Periodically, coded signals were such by

Burning oil from the Pedernales and Oranjestal rolled along the surface of water where the tankers had been hit by the first two torpedoes fired by the U-boat 155 in combat. Azeta kimando di Pedernales y Oranjestad tabata lora ariba awa unda e tankeronan a worde godal door di e promer dos torpedo lanzá door di e U-boat 156 Aleman den combate aki. The U.156 'two Diesely, which were capable of gencerting 2500 horsepower sach, pushed the Garman bout past the north const of Gatadéouge Feb. 10. The areas past the north const of Gatadéouge Feb. 10. The areas past the north const of Gatadéouge Feb. 10. The areas part there the Gatadéouge Feb. 10. The areas grounds: They did not know, however, whom was to be intuel or exactly where.

Three days liket, heading earth, Curagoo came up on the horizon. Harchentein addressed the trew. He tod them the U-156 was part of the Neuland Group assigned them the U-156 was part of the Neuland Group assigned the tables between the Netherlands Antilles and Lake Manadoo. Others in the Stroup were faipeling and Lake Manadoo. Others in the Stroup were faipeling the Anti-Manadoo. Others in the group were faipeling the Antile-Stochmarz U-95, Anjianteutant Jurges (2). The U-166 had been assigned the Arribe refractduring the moring dark hours of Feb. 16. Excitement raced through the ship. The operations in the operations of the ceve sume individuals to involutiently review order of battle and exigment readiness. They were ready and eager. At 1830, Feb. 13, the 1:156 starfaced and stered for the Colorush Point light. The submarine moreoids around the Point and at 2000 moved pass the

dity recorded by the instruments in the buoys. They had been stored in the watertight torpedo compartment on the submarine's deck.

made for France. Jan. 8, 1942, the submarine tied up in The U-156 sailed down the west coast of Ireland and Lorient Harbor on the northwest coast of occupied France. A frigid fifteen-day journey without engaging the enemy and two weather buoys placed constituted the first patrol.

tower whipped in the cold January air. The two officers and puzzled crew members silently wondered where their next patrol would take them. The huge supply of com-missaries and tropical gear being loaded aboard their boat WAS stood on the slither of pier that extended into Lorient Harbor. Secured alongside was the long, grey form of a submarine. The red and black swastika above the conning certainly different from the gear used on the patrol they Lieutenants Paul Just and Dietrich A. von dem Borne stirred their curiosity. Summer clothing, they agreed, had just completed.

Lt. Just and Von dem Borne hadn't received the slightest Two aspects of the future were obvious to them as they gazed at the enormity of the supplies stacked on the Lorient pier. The patrol would be a long inkling from Hartenstein where their next patrol would one, and it would be in warm latitudes. The prospect of take them.

the engine room. Under ho circumstances would the U-boat commander or ondone bears of more than forty-eight bours' growth. There was holting slowenly about Harten-bours' growth. The boat and two under his command. lusk. A shower was rigged on the deck and another in operlive of Hartenstein's personal his men to shower daily at But while he was impeccable in his person and persons. Again representut characteristics, he wanted

puu

the likes and dislikes of jorty-eight men, Hartenstein rity ruled. The option tended to lessen the gripes about a una fish in oil for breakfast. The enlisted men liked ated with thoroughness and efficiency, his men had come, by now, to respect his energies, abilities and consider-Hartenstein had molded a green crew into a cohesive combatant unit. The cameraderie ran high. In respect for permitted the men to vote on meals desired. The majosubject that was universally criticized in the military. The officers and non-commissioned officers preferred ation for others. On this the U-156's first major patrol. marmalade and wurst better.

from the normal fare, but catching them was an equally delightful diversion. Deck watches competed with each other on the number of catches, and, of course, the win-ning group shared a kitty contributed to by the others. The record for a twenty-four-hour period was sixty fish. Quite often the crew of the U-156 had fried flying fish for breakfast. Not only was the fish a delightful respite



This, a propaganda poster done by a German artist in 1942, depicts the U-156 successfully shelling and settreceived wide circulation and belief in ing aftire the Lago Refinery. Untrue, of course, yet the poster undoubtedly Germany. A copy of the poster was found in an evacuated German schoolnouse by a United States Army soldier luring the advance on Berlin in 1945

pomiendo refineria di Lago na candela. No ta berdad, naturalmente, pero e school evacuá na Alemania door di di e plachi a worde haya den un un solda di Ehercito Americano durante e avance ariba Berlin na 1945. Esaki, un plachi di propaganda pinta door di un artista Aleman na 1942, ta munstra U-156 tirando cu éxito y plachi a worde circulă extensamente y a worde keri na Alemania. Un copia

be seen. Early morning air activity from Princess Beatrix Airport, which Hartenstein logged as two to four two-motored airplanes, caused the U-156 to submerge Surfaced again under cloudy skies, the submarine sailtraffic also moved at night." Satisfied with his first ook Hartenstein increased his boat's speed and continued along the coast to Oranjestad. He dived his boat and went into the mouth of the harbor, but there was little before detection. The submarine remained submerged tankers were in port and three were at roadstead off the northwest coast of Aruba until dusk Feb. 14. arge

2

ed into the tanker route between the Antilles and the lakers. None was fired at; the primary objective was the refinery. Their practice completed to Hartenstein's satisfaction, the boat moved back to Aruba. Here it submerged and moved up to the mouth of San Nicolas Harbor where her commander noted "considerable activity, harbor well occupied." The U-156 moved off toward Oranjelake. Hartenstein and crew spotted tanker silhouettes, maneuvers on the unsuspecting and practiced attack stad.

changed. The commander correctly assumed that the German high command had been rankled by disagreement. The countermanding official message to all West-At 0610, Feb. 15, Hartenstein's procedure orders were ern Hemisphere submarines was:

2) if this attack is successful, then artillery attack of Western Hemisphere time should opportunity for this be 1) the principal assignment is to attack ship's targets; against land targets can be made on the morning

3) when no ship targets are encountered, artillery attack against land targets may be made toward evening of Western Hemisphere time. favorable; and

Admiral Karl Donitz's view of the Aruba operation, with which Admiral Erich Raeder took strong exception. was that the initial shelling of the refinery and tanks with deck guns would destroy the element of surprise needed for a successful attack on the almost irreplaceable lake tankers. Donitz succeeded Raeder as commander in chief of the Reich Navy in January, 1943.

The U-156 remained just below the surface most of Feb. 15 observing, from its position less than two miles off Seroe Colorado, the activity in the refinery and the harbor. The crew's greatest bother was keeping their vessel from being discovered by fishing boats. Shortly after nightfall the U-156 surfaced and almost ran into a patrol boat. Von dem Borne, who had the watch, ordered her hard over and avoided the boat. Luck ran with the U-156 at that moment; it was never seen.

to the deck and marvelled at the light and the activity. They had been living and operating in a blacked-out On the surface outside the refinery, the crew scrambled Europe for over two years, and the lights of the refinery towns and cars and the homes in Seroe Colorado and



Perodreminie de boeinan aki ta tranamiti senjal na code minimo de minimo de la contrata de la biento, volocidad di ava, registración barometrico y humenda da mosferico registra pa instrumentonan den le boeinan, Nan mosterico registra pa instrumentonan den le boeinan, Nan preba di ava ariba de la e compartamento di torpedo cerri a preba di ava ariba de la estimaritmo.

E U-156 a nabega bin abao na e costa di Irlandia y a tra pa Francia Jan. S, 1924. a submarto a marz na haat di Lorient na costa noordwei di Francia cupta, Un tang prio di das-cinco di sin-direnta den combate cu enengo y dos boei di tempo poni tabata constitui e promer patrula.

Automating Paul Just y Ditrich Avon dem Borre tabata, park artha e pida pite extendiendo den haat di Lorient. Maré na un banda tabata e forma largo, shinhal d'un automatino. E sensatilar corris y pico artha e loug tabata, suto den e biento frio di Jamari. E des officialman pictipulesion tabata putta na mes una ma sui ana signient partulla lo hila man. E cantidad grandi di alimento y signata rougel e tubata vortes corres are non partulla de la verano, nan thebat di alimento y seguita. Parta di verano, nan tabata di acuerdo segura seguita terbata vortes corres are segura are curosidad. Parta di verano, nan tabata di acuerdo segura partulla cu a caba di worde completa.

Lit. Just y Von dem Borne no a rechi ni e minimo inditi. Just y Von dem Borne no a rechi ni e minimo indiman. Des aspecto di futuro tabata evidente par una an miernan. Des aspecto di futuro tabata evidente par na miermento stivá arba e pier di Lorient. E partulla lo ta un largo, y e la den latitudina calor. E prospecto di tempo ces. Von dem Borne tabata pensa den au mes cue patrulla Denoración na e vito la dero a tivo di bento frico de non di artico di extro pa Coscon futio.

hombernan tabatin un problema pa stiwa e cantidad grandi di alimento, panja y arma. E U-156 tabata sola-Cada un di e cuarenta y ocho hombernan a bordo di e di panja yen di cuminda na bleki y botter; e excusado stiwa cuminda di bleki, y un caha grandi di batata a worde tirá den centro di e sala di control. Nuebe torpedo mente 252 pia largo y binti-dos pia na su hanchura mas grandi. Na su punto mas nalto e tabata trinta y un pia. U-156, cu e posible excepcion di Hartenstein, kende semper tabata positivamente segur tocante e cosnan aki pronto a haya sabi unda tur e material aki mester a worde stiwá. Tur posible huki y skina a worde utilizá. Caha yen di webo a worde stiwa ariba mesa; e hamacanan den pasada tabata yená cu pan y lamoenchi, cashinan y usa pa a worde mará bao cama, seis mas a worde poní den tubonan di e submarino, y diez a worde asegurá den e com-partamento a prueba di awa ariba dek. Preparacion pa e viaje largo a tuma diez-un dia. Jan. 19, 1942, e U-156 a sali for di Lorient, Francia. den apartamento di e tripulacion a worde cerrá

E submarino a tira zuidwest, y ora el a pasa Azores e tripulantenan a pensa cu nan lugar di opera lo ta dilanti costa di Sur America. Cruzamento di Atlantico a duna e

E dos Dieseis di e U-158, cual tabata capaz di genera 2010 forza di e data cada uno, a pusha e boto Aleman dilanti e costa ancte di Guageloupe Feb. 10. E ora e tricontanti e costa anche el Guageloupe Feb. 10. E ora e tricontanti e costa anche el Guageloupe Feb. 10. E ora e tricontanti e costa anche el Guageloupe Feb. 10. E ora e tricontanti e costa anche el Guageloupe Feb. 10. E ora e tricontanti e costa anche el cual anche feude lo ta e tricun el exactamente unda

Tres dia deepues, cortento zud, Curtego a soma nu reres dia deepues, cortento zud, Curtego a soma nu prozonie Bartarestica dalleg sariera sua eripulacion. El a bisa ma cu U-166 tabita parti di e Grupo Nodanda parta da ataba seriera india di Curtego y Nadara tanteeroan cu ta vinja erita Antillas Neerlandes y Lago tanteeroan cu ta vinja erita Antillas Neerlandes y Lago Malte-Stochma en el grupo tabata Antiluateutant Malte-Stochma en U-67. Kapitanteutanat Albrecht antilles Maltise cu U-151, Kapitanteutanat Albrecht eu U-502, U-156 a worde aigni e refinerta di Aruba y emartuso di Peb 16.

spuesto, ra 1830, reb. 13, e e luz di Colorado Point. E d e bapor. E operacionnan di neria tabatin hopi luz, cuatro tankero grandi tabata den haaf y tabatin tres mará ta warda, y cu trafico tabata sigui anochi tamhe." Satiscual nan a worde participan impulsa nan pa repasa int punto y pa 2030 el a pasa dilanti costa, Hartenstein y fecho cu su promer vista Hattenstein a aumenta velocidad ca di haaf, pero no tabatin veld Prinses Beatrix, cual Bartenstein a nota como dos te cuatro avion di dos motor, a causa U-156 di bai abao d mainta tempran na Vlieg submarino a keda bao awa ispuesto. Pa 1830, Feb. 13, di costa pa Oranjestad, El bataya y preparacion di su boto y a sigui canto dilanti refineria. Un milla su oficialnan a nota cu "ref mucho cos di mira. Activid Excitacion a subi bordo combate. Nan tabata cla y submarino a sigui rond di voluntariamente ordennan U-156 a lamta y a stuur baha su boto y a drenta promer cu el worde mirá.

silhueta di tankero, y a prace boto a move atrobe pa Ariba. Aki el a lamta y a move recorre e ruta di tankero entre Antillas y e lago. Hartenh tankero insospechoso, Nan no a tira ariba ningun; e meta primario tabata refineria Nan practico completá segue satisfaccion di Hartenstein, , haaf bon ocupá." E U-156 cielo nubiá, e submarino Nicolas unda e comandante dilanti costa di Aruba te ori a bira scur Feb. 14. Ariba awa atrobe bao un cielo nubiá, e subma lestad. nota "considerable actividad te den boca di haaf di San a move den direccion di Oran stein y su tripulacion a mira tica maniobra di atake aril

Page 0610 Perh 5, e oriordnan di Hartenstein a worde embili, E comandante orientanette ai autori et a dito comando Aleman tabata parti den descuerdo. E menanje comando Aleman tabata parti den descuerdo. E menanje derital tabata:

 e encargo principal tabata pa ataka bapor;
si ataka atika ati in éxito, anto atake di artilleria conzone ataka ataka ataka mataka di artilleria con-

c) as contained and un extual activity activity activity and activity activity activity and a ariba terra por worde haci ariba mainta di tempo den Hemisferio Occidental si oportunidad pa esaki ta favorable: y

3) si no contra bapor, atake di artileria contra meta

converti e tankero den un inferno. Pa 0133, un segunda torpedo for di e tubonan adilanti di U-156 a sink Oranjestad.

Arthrasticn a corients exhamino adilatri den direccion di hari, despuesa para tres cuarto milla dilatati tri, E a tribeira tellata cia. E comando par lar a worde signi E anu beroto ensoridoler cu a signidi henter e boto. Me Borne tubats pristi den tura pia di e boto. Me Borne tubats pendie E oftor infuluational de di e explosion a bendie E otro ripulantenan di e exonti a signi tita con fataristetia a sion ma cuoro resultudo no tabata aparette. E comandario furturia coefande e pio pasali for di e lugar adi, y despue a corre arba de k pa mira bito a socele cu e cuyon di 10.5 khrå, e E hayos grandi e cu i tabata segur lo a produci resultado.



phere bounced off tank 112. Another went through a house north of the lower tank farm. The shelling injured no one.

Un di e promer balanan enemigo pa dal den Hemisferio Occidental a bons na tanki 112. Un otro a pasa door di un cas pa nord di tanknan. E tiramento no a herida ningun hende. February 16, 1962

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Kapitanleutnant Werner Hartenstein, in formal commissioning ceremonies, addressed his crew on the deck of the U-156. A member of the German navy since 1928, he was a well-decorated, energetic and strict officer.

Kapitanleutuant Werner Hartenstein, den ceremonianan formal di conisiconnento, a drigti pabhara na suripulacion arbia dek di U-136. Un mienbo di Navy Aleman deside 1928, el tabata bon decord, y encregetion







Deck arrament comprised a 2 cm anticiarity gun, 37 and 10.5 cm cannons. The 10.5, which exploded, below is ice covered on a northerr patted, transmento an dek tabata inclui un cayon antizereo di 2 cm, cuyon di 3.7 y 10.5 cm. B 10.5, abao, la terbi cu i șa arha un patrulia den norte,



ensued throughout the ship and with head recling from the blow, he dight know what had happened. He, like many others, gave no thought to enemy action but fig-med that the tanker's petroleum cargo had been ignited the other was on watch in the engine room. The force of the torpedo's explosion crashed men into bulkheads and dashed them to the deck. The friend in the crew's quarters The details of what happened did not interest him at she started to sink. Morgan returned to his cabin to get his life grotert. He serunbied to the ship's starbourd side and was flung lack by a sheet of flame. He attempted to cross the ship but fell and was pitched back to the flam-Morgan quickly drew on his trousses and need or to the Morgan quickly drew on his trousses and need or to the state. When he rescated the ships lower bridge he was blinded by a final. His ship had been torpedoed at pro-ceeding 0.033, part 0. The ship had been troppedoed at pro-constanted the entire yease. Her back had been torken and constanted the entire yease. ing starboard quarters. The fall fractured his ribs, but The four men huddled together on a small section of help but were never recognized. The Oranjestad settled gradually. About an hour after she was hit, the Oranjestad slipped beneath the water's surface. The captain and his associates were washed off their perch. All had lifejackets except the second officer, who was lost. The men were retrieved from the oily sea about 0330 by a Dutch Out of every tragedy and emergency arises accounts of devotion and bravery. Aboard the Oranjestad were two men who had sailed together for years. They were from the same island and had lived much of their childhood together. Theirs was a tight bond of friendship held fast by their constant and compatible association aboard the At 0131, Feb. 16, one was in the crew's quarters and was smashed into a bunk frame. In the confusion that With three mates he The men signalled for muscled her aground near Oranjestad. Shibyard crews cut the beached hulk in two. The bow and stern, then, were towed separately back to Lago's shibyard. The two The second officer burst into the captain's quarters and roused Herbert Morgan, master of the lake tanker Oranjestad, from sleep. He excitedly told him the Pederpieces were fitted together and the stubby Pedernales, 124 feet shorter than she was the night before Feb. 16, set sail for the United States, There the little laker was again cut in half, rebuilt and returned to service. Innales was afire. Morgan's reply was immediate and terse cluded in her wartime action was the African campaign. desperation overrode any pain. With three m made his way to the bow of the ruptured ship. the bow that had not caught fire. "Prepare to weigh anchor." through mishap. patrol boat. Oranjestad. length of the ship. The caltain was blinded by flames that set his bedroom ablaze Out on the ship's deck he saw that her back had been proken by the explosion. He of the water and not burning. The Pedernales captain left his ill-fated ship with a small cluster of his men in the only lifeboat that was able to be lowered. and crumpled she remained afloat. She drifted from the location where she was torpedoed and took much of her fire with her. later in the morning the fire that earlier had enveloped first ship to be struck by the energy in the Netherlands Amilies-Lake Maranealon earls, ahe was the first target of the U-166s first Caribben patrol, and hers was the explosion that knocked Arun's front door off its hinges and let in the horror of war. The Pedermales was one conce than two dozen thy, shallow-draft lake trankers wared by Lago which thre-essily churned back and forth between Aruba and Lake They had a specific assignment which made them indis-pensible. Their average capacity was about 28,000 bar-rels, and their draft was shallow enough to enable them to clear at high tide the samplar that closed the mouth of Lake Maracaibo. That was during the era before the bar was lowered and the phore of constant dredging eep enough to accommodate master, was asleep in his roused from his slumber at reverberated through the groped his way to the port guarter which was high out red and burned, some badly, They were later discovered and towed to shore. The mean in the lifeboat constituted the majority of the Pedernales' eighteen survivors. Eight the earnord's muzzle plue, which locate water out to the plue of the second state of the second state and second at the barrel's thy. In view of the second grant what would barrel's thy. In view of the second grant statery had remained first. In battle presence can only be loft to remained first. In battle presence can only be loft to the Lago Refinery, riding in anchored off the coral reef that fronts Seroe Colorado. where three torpedoes were fired at the Arkansas at Eagle Pier. One rammed the gas free tanker and she suffered only the force of the explosion; the second was It exploded and killed four demolition men who attempted to disarm it the next day. The Lago lake tanker Pedernales was the first. She he torpedoed; she was the in a way, specialty ships. with crude oil when she The U-156 steamed along the surface to Oranjestad suffered only the force of the explosion; the second was never found, and the third ground to halt on the beach.

the midnight to 0400 watch, was also artillery officer. He aripervised his crew in preparing the 10.5 cm and the 3.7 cm cannons and the 2 cm anti-aircraft gun. Li. Just, the It was now a matter of time; the U-156 and crew were vere sensational. Von dem Borne, in addition to having first watch officer, and his crew readied the torpedoes. ready to strike.

conjecture.

for r

of action they were over caper.

U-156 freed its first torpedo. Precessly 48.5 seconds later the explosive photod into the safe of the Pederanias and turned the laker into an inferno. At 0133, a second tor-turned from the low tubes of the U-156 sank the Oranje-pedo from the low tubes of the U-156 sank the Oranje-- the At 0131, Feb. 16 - it was 0801 Berlin time stad.

the entire boat. Staman Businger lay motionless on the deck. Von dem Borne sat stunned propped against the base of the conning tower where he had been slammed off the reef. The artillery was readied. The command to fire at 0141 was followed by a deafening roar that rocked by the force of the explosion. The other gun crews con-tinued their fire until Hartenstein halfed their action when no results were apparent. The infuriated commander ordered the boat out of the area, then charged along the deck to find out what had bappened to the shattered 10.5 cm cannon, the big gun he was sure would have produced Hartenstein ordered the submarine ahead in the direction of the harbor, then stopped three-quarters of a mile results. He was given the answer.

was the first lake tanker to

His crewmen were ready and eager, but at the moment

Maracaibo hauling erude to the ballast to the lake. They were

Pedernales was loaded

initiated to keep the channel

ocean tankers.

The

M31 by a dull report that

Herbert McCall, the tanker' quarters. He was brusquely



William van Putten - Pedernales Survivor

The tanker survived. Charred, twisted

were lost.

The lifeboat with men inju

drifted toward Oraniestad.


leun. E explosion a parti Pedernales na mitar y a munda su parti adilanti y patras pa larin manera un hero birá. El tabata leun pisá pa estribor.

Aribs man in pik, su brava dreeh iy tomba chirt ru akta ayetta, Yara Puttera husea na banda pattas di a bapor pa un lugar di salbacion. Na e momento aki di mana un oblech otterite corre edi ana eta costado di Orianta un oblech toterite corre di ana eta costado di anati atta della patta patta di anati Patta e tanquero fuktion ai naratro pattas di anati firata. Va e tanquero fuktion ai naratro pattas di anati firata y e tanquero fuktion ai naratro pattas di anati di anati di anati di anati di anati di anati di kraak y a tumitra supi azeta kimando for di anati ottati di angle di anati di anati di anati di atta di anati di anati di anati di anati di atta di anati di anati di anati di anati di atta di anati di anati di anati di anati di atta di anati anati di a boto salbala, tripitatatan firati di attagar di anava ut su tantibili promet. Ana buda zi a di dei ava ut su tantibili promet.

An Putter at rend descentationaries me a boto subsbidia; otro a subi aden y a sacia satura herdia for di den for al e hodigar cu un termpo thatta Podernales. E grupo for di e hodigar cu un termpo thatta Podernales. E grupo chiktio den e boto salbaida tabita consida un cu tro y protriatarmente suan seriamente herdia. Triatatu un protriatarmente suan seriamente herdia. Triatatu un metto, tabita dreie ani destino den un boto salbaida su metto, tabita dreie fan destino den un boto salbaida su mento, tabita dreie ani destino den un boto salbaida su mento, tabita dreie dan destino den un boto salbaida su mento, tabita drei ad destino den un boto salbaida su mento attoriation — e remanna la liperi ora e boto mento.

bulente di vuelta pa Aruba. El a cruza su braza cortico over di un pecho hancho y tabuta waak e oloshi di bapor. Tabata exactamente 0230, E fecha tabata Feb. 16, 1942. Na e exacto momento aki, un explosion a manda Seme-

Na e esacto momento alci, un explosion a manda Semeler di caboz de un promi, arbia cue a oloshi tabata colgá enal a registra indolbiemente den mente di e frieman e ora cu e torpedo a termina bida di Tia Juana. Su cotal den e porpa akure la abordi dora di hrazanna di serunte. El a dai tene, runca a perdo su teridid, ni

is notised one propring admitted absorbin door dubrazanna di aguanto. Ell a dal tene", munes a perde su traffar, in accesse absorb a la materiare. No tablita in candela of razeta den e cuarto di maquina, pero e forza troicente di a razeta den e cuarto di maquina, pero e forza troicente di a razeta den e cuarto di maquina, pero e forza troicente di razeta den e cuarto di maquina, pero e forza troicente di razeta den e cuarto di maquina, pero e forza troicente di razeta den e cuarto di materia. Necesse su otro cui a tuatta sus dori di un salifa. Mecoss cu otro cui a tuatta sus di cu di mester abandona e lanor. E porta di salida no sker a labrit, su estuezzona a worde troitita hadole subj for di e pertoi.

The trans as in balance soluments yas takents un estherato solucitumo sin e tarea alicional di forza habit e porta. Semeleer a cherec tur su forza y peso ur el tabata por y, angressmerte polisar, el a move e porta transfe hastante pa pasa su caboz. El a pusha e resto di un curpa don di e aptitura childio.

Na dek el a realiza no solamente seriedad di e situacion, pero tambe di su mes mala suerte. El tabata halto acien our a a handa arlha di un hanar selaun E uida

pesible, y easil sin durfa, a contribui an asplacion di Semeperative and an and an and an ana an inc'le. Pero con 7 Un figura politario den awa den oruna di mainta lo ta cal noposho pa mira. E honche den awa tabaha segur eu comandante di c submarino Aleman lo mira e tankcoo halto, Avor Semeler thatta reultza masha hon e causa di crohoshonan di Tfa Juana y di Mongaa. E tripulocio

E bon fortuna di Samelea ra kota ou ne. E tripulation de tankter Raman di Shell a tende e explosion y mira Monagas kima. E promer reaction di e tripulatena da atta cun uni do holtera di e boper a bulla. Ramona a reduci velocidad y a sigui cuidadesamente den directon di e bapor malogrado. Caytan di e tanktero a yama tur tripulane ra dek pa waak pa hande den awa. Un tripulante a mine a soluturio Semelere. E tanktero di Shell a para y a mira e soluturio Ora nu a puntrele kito a secele, el a grita: "Tropado. Ora nu a puntrele kito a secele, el a grita: "Tropado. Torpado." E lake tanker Ramona di Shell tahata halto y liher tanka su vajed di vvalta na te lago. Sia tripplution tahata haci su trahao sin otro precompacion sino propio operalaci su trahao sin otro precompacion sino propio operalaci on di e hapo. Sia transporte di atta sin evento. Vicente G. Provence, boatawali di Ramoni, tahata gienta ma G. Provence, boatawali di Ramoni, tahata guenta na tahata necetura Provence of proballemente culater 19, bo

Den e boto salbabida e chief steward malamente heridă a No a dura largo pa Van Putten su kimaduranan cura sin ni laga marca y el a bolbe den servicio. Su siguiente bapor su yegada na San Pedro Hospital. Van Putten y e otronan a worde trata y transferi pa hospital di Lago. tabata Quirequire, pero ta Pedernales ta esun cu el no por lubida nunca. Masha bon el ta corda e temor semper premuri. E tercer maquinista a muri algun momento despues tansente durante e siguiente anjanan di guerra, cu su quero lo ta obheto di un otro atake di submarino. ip

El a laga lake flect na 1948, y ave el ta un foreman cu un contratista di verfmento na Lago.

Putten ariba Pedernales. El tambe a drief den e boto salbabida, pero siendo mas afortunado cu algun otro, el a laga su cuarto y e bapor sin ningun marca. El tabata na bapor. E loramento di e tanquero a bente'le abao. El no a haya kimá di vlam, solamente el a toca cu azeta cu tabata corre door di e pasadanan. Cu dificultad, pero tan Francisco G. Thomas tabata un marinero hunto cu Van sonjo ora e tiramento a socede. Relevá di su trabao como quartermaster ora e bapor a hancra mas tempran den anochi, el a cai ariba cama. E boroto di e explosion y e resurgimento a bordo di e bapor a desperte'le. Instintivamente el a coi camina pa dek. Na momento di e explosion el no tabatin un idea kiko a socede y el no kier a para pa puntra tampoco. Su unico deseo tabata pa abandona liher cu e dek gekantel y sushi na azeta por permiti, Thomas a bai pa direccion di e boto salbabida.

Ora Thomas a yega banda patras, el a mira Oranjestad explota den un bola di candela. El a haya miedo. El a reaiza e ora cu guerra na Europa y Atlantico a translada pa Caribe.

Thomas a bolbe pa su cas na Bonaire despues di sink-mento di Pedernales. El tabata den lake fleet di Lago desde 1936 y el tabatin intencion pa bolbe den mas of menos un siman. El a bolbe y su siguiente bapor tabata Andino. Thomas y e bapornan ariba cual el a nabega no a worde melestià mas door di enemigo. En efecto, nunca el a mira un bapor worde tirá mas durante su viajenan entre Aruba y e lago, y un viaje largo cu su barco a haci como parti di un convooi grandi pa Estados Unidos.

Thomas a laga lake fleet na 1956, pero ainda el ta 13. nabega. Ki ora cu el tin chens, el ta firma a bordo di tan-queronan pa haci viaje pa e lago. Su ultimo tabata un e, queronan pa haci viaje pa e lago. Su ultimo taba bapor Norwega. Ora charter di e bapor termina, oaha y ta warda un otro.

fleet, tabata pará mei-mei di e cuarto di maquína di Tia Juana. El tabata pará keto y silencioso completamente cu atendon ariba trahamento di e motornan bao su cuido. Su pianan tabata poco apart, pa absorba e lormento di e Ermencio J. Semeleer, un veterano di cinco anja di lake tanquero cargá mientras esaki tabata cruza e lamar tur-

INTIMUTER CU VIEIII, UII OLIU e homber. Ainda ningun contesta. Un Semeleer asustiá a recibi e mensaje silencioso di morto. El a kita for di e cadaver y a cuminza pensa ariba su mes. Un boto salba-bida tabata cerca di dje, y el a purba los e. Tabata en vano. E leunmento di e bapor tabata asina grandi cu el a di e railing. El a grite'le, pero e homber no a contesta, Semeleer a coi e railing tene y a rance su mes den dirección di e tripulante. El a sagudi causa e boto di cai ariba schoorsteen y despues den azeta tripulante tabata colgá over kimando.

Semeleer no tabata gran landador y el tabata teme amar, su grandura y, na e momento aki, su aparencia scur y amenazante. Sinemburgo, candela tabata un peligro mas grandi. Semeleer, su sol, cu miedo y sin salbabida a laga su mes baha den un lamar scur y bruto.

fortuna, e solitario Semeleer, mitar hogá y cansancio, a drief contra cinco otro sobre-El no tabatin un idea exacto di con largo el tabata drief den awa purbando pa tene cabez na laria. No tabata parce'le mucho largo despues cu el a larga e bapor cu el a sintí un concusion doi can awa ora e bollers di Tia un periodo di exposicion cu tabata parce un eternidad. Den un di e inexplicable vuelta viviente di Tia Juana, tur teni na un salbabida. E otronan Juana a explota y e bapor a nink. Mas laat el tabata morto a tene Semeleer y a pushe'le entre nan. di destino y fortuna, e soli curpa yen di cansancio, a cansá y muhá di azeta for

y yen di animacion a cuminta landa bai na dje. Semeleer a nenga di bai. Ya el a landa bastante durante anochi y el no tabata sigui capaz pa continua. Nan cinco a laga e E grupo a sigui drief. Un tanquero a bini na vista, y a viviente. Su tripulantenan humanamente, pero no muy sabio, a tira un spot-light over di awa. E hombernan den awa a identifica e hapor cono e tanquero Gulf, Monagas, el tabata rondiando sobrelanda den direccion di e tanreduci velocidad manera cu salbabida cu ne y a cuminza uero.

Rapidamente e hombernan a desparce for di vista di Semeleer. El tabata sol atrobe mei-mei den Caribe. Des-pues di un periodo largo un fin — tempo no tabatin nificacion mas pa Semeleer – Monagas a explota den un monton di vlam. Un otro turpedo Nazi a dal su marca. cual oficialmente a worde anotá pa 0330

Casi manera cu tabatin comodidad of seguridad pa worde ganá kitando for di un marca enemigo, Semeleer contrario di Monagas kimando. Cu ayudo di e salbanida tabata un poco mas facil pa keda flota, El tabata more su braza poco poco, mescos cu su pianan; henter su curta tabata dolor di frio y cana purba landa den dirección sancio.

dilanti Punta Macolla di Venezuela. E tankero cu Seme-leer a mira aparentemente tubata bini den vecindario di Un otro tankero a aparece, Lo tin hopi mas como esaki Monagas pa investiga. El a reduci velocidad mas tanto

ASSN UCH UIR BID MUCHO GIFEIEDCIR, pero esaki tabata Feb. 1942.

den direccion di e refineria na Aruba; despues vlam a lo di e tripulacion di Ramona, y consternacion di e homber-nan tocante loke nan no tabata sabi, a trece nan pa dek tabata puntra su mes si podiser un bapor tabata na peligro. Mas tempran, el a conta, el tin idea cu el a mira vlam largo di e ruta pa e lago. Su preocupacion a recorre door di e bapor. Di repente nan a realiza; nan a tende explo-E homber cu el tabata pa releva a bisa Provence barce tabatin algun incidente stranjo ta socede y



were floated to Lago where they were joined. A stubby Pedernales, 124 feet shorter, sailed to the States to be rebuilt. The Pedernales was cut in two. The bow and stern sections

Pedernales a kibra na dos. E seccionnan di boeg y di atras a worde treci Lago unda a pega nan na otro. Un Peder-nales cortico a viaja pa Estados Unidos pa reconstrucción.

three months. Outside his house he glanced down the road in the direction of the refinery and was startled by a sudden flash of fire. This turned out to be caused by A. T. Rynalski breezed by and told Eaton to take his February 16, 1962 aboard one of the ships had reached the rocket box and the flares were exploding at will. Suddenly the mantle of disguise was pulled clear of ng stunned him. Those were not ship's flares. They were tracer projectiles being jettisoned from an unknown rather the direct result of definite, planned and efficient action. Those ships were torpedoed. This was no accident. Eaton's first reaction was to move his family away from the waterfront house. Normally a location that attracted active bidding, the waterfront residence was not exactly the most desirable spot during a war. He roused his little girls, Alice, two and one-half years, and Susan. Eaton's thoughts and the clarity of more realistic reason enemy lurking outside the reef. The conflagration that sink. E submarino Aleman a sink mas di 100,000 tonelada The U-156 and crew watch one of their Caribbean victims sink. The German submarine sank over 100,000 gross tons of Allied shipping during its year of silent, underwater hunting, E U-156 y tripulacion ta waak un di nan victima den Caribe bruto di embarcacion Aliado durante su anja di actividad beset the two ships was not due to carelessness, no; this was war. blow downs. second explosion. The captain of the Ramona was struck with the cold realization that he was sailing his ship over waters that hid two. maybe more, enemy sub-The Ramona cut short her dash to the lake when olanes appeared at dawn. Safe with aerial protection, the Ramona slowed again to continue her search for survivors. It was then the crew saw the tanker that had been hit twice. Ahead were the remains of the torpedoed lake anker San Nicolas. She stood vertically, her stern on boat. Of the ten only eight were pulled aboard the rescung tanker. Two men slipped beneath the waves, their senses numbed by exhaustion with rescue arm's lengths out his strength had ebbed during the ordeal and he was The Ramona and the Lago tanker Yamanota rescued eighteen San Nicolas crewmen. Seven were lost. Three were killed instantly when the first torpedo hit the encine room. The San Nicolas listed abruptly, but did not flame. This apparently concerned the U-boat commander, and fifteen minutes after firing his first torpedo he sped he bottom and her bow jutting through the water's sur-The crew of the Ramona sighted small knots of men; one group of six clung to the wreckage of a lifeboat and four others supported themselves on a capsized small 1way. One who was lost grasped a line from the Ramona ARUBA ESSO NEWS face in ugly defiance of her tormentor. unable to hold it. narines. sank the Oranjestad just off buckled the Pedernales and Torpedoes from the U-156 railing shortly before relieving the watch at 0400. Not that it mattered to Provence or probably any renvem-ber since at sea days run into mights and nights into days without much note of differentiation, but this was Feb. 16. The Shell lake tanker Ramona rode light and high in the water on her return trip to the lake. Her crew went about their duties unconcerned with all but the proper operation of their ship. The trips back and forth between Curagao and Lake Maracaibo were usually uneventful. almost impossible to see. The bobbing man felt sure that the German submarine commanders would see the highriding tanker. Semeleer was now well aware of the cause Semeleer's good fortune remained with him. The Shell tanker Ramona's crew heard the explosion and saw the The tanker's captain summoned all hands to the Vicente G. Provence, Ramona boatswain, lolled about the "The told Provence there seemed Monagas flash. The crew's first reaction was that one of the ship's boilers had blown. The Ramona slowed and deck to watch for men in the water. One crewman spotted the lone Semeleer. The Shell tanker stopped and pulled him aboard. When asked what had happened, he shouted: proceeded cautiously in the direction of the distressed the Seroe Colorado reef of the Tia Juana's and the Monagas's explosions. IWENTY YEARS AGO "Torpedo! Torpedo!" The man he ship.

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ships were in distress. Earlier, he related, he unugue ar saw flashes in the direction of the Aruba refinery; then later flashes along the lake route. His uneasiness seemed to drift through the Ramona's crew, and the men's consternation - over what they knew not - brought them to the ship's deck. It suddenly came upon them. They heard the explosion; they saw the flames. The tanker cruised in to assist. A man was sighted in the water. The captain of the Ramona ordered full astern to pick up the survivor. As the ship's forward motion decreased then stopped, a phosphorescent blur whipped past her bow.

the wet and oily figure inside the life jacket identified Pulled out of the water and asked what had happened, opadio1 ... himself as a Tia Juana fireman and shouted: Torpedo!"

readily visible. Fifteen minutes later, the crew heard a marine, and he wasn't at all sure how much determina-tion and vengeance had been incited by the U-boat comtaneous with the order was the realization of what had just knifed past his bow. The forward motion of the ripped the surface of the water off the ship's stern. Underway with all the speed her engines could generate, the Ramona captain employed zig-zag evasive maneuvers. He knew he had been sighted by one submander's annoyance at having missed the Ramona twice. At 0400, fear gripped the Ramona's crew when they report of another explosion. No flame was The captain of Ramona screamed for full ahead. Simul-Ramona was none too soon, and just enough. A second heard the torpedo

board during a practice session. This is the cannon that exploded Feb. 16 when the U-156 shelled the refinery. The gun crew of the 10.5 cm swing the bow cannon star-

E tripulantenan di e cayon di 10.5 cm ta swing e cayon di boeg pa handa drechi durante entrenamento. Esaki ta e cayon cu a explota ora cu U-156 a tira ariba refineria.

lake route The workdo on the framoun and mentioned to provense the feeling of unformed indicates, and that earlier the hard seen Tashes. While fulfalt hnow at the time was inthe hard seen that Tra Juane explode time was inthe hard seen that Tra Juane explode the was not reproded multidilys our functed interdiately. tanker, Monagas, and an oil slick that marked where the Tia Juana had sumk beneath the Caribbean. The Tia Juana was the first hit of those ships sumk along the and left behind the hulk of the San Nicolas, a burning Gulf carried her survivors to Maracaibo, The Ramona

In minutes she heeled over sharply. Water rushed through her crumpled side and eased her below a flame-covered surface taking seventeen of her crew with her. Only nine survived. Of the four Lago lakers torpedoed the morning of Feb 16, the crew of the Ta Juana suffered the largest number of casualties.

red by the incident, the stocky fireman returned to lake tanker duty and served on the Quirequire and the Jama-nota. He also was aboard the tanker Valeria when she joined Lago's Marine Department Aug. 4, 1947, Both men are now on Lago towhoats. Semeleer is an olier and Semeleer and other survitors were kept in Maracaibo for two weeks and then flown back to Aruba. Not deterfoundered March 7, 1944, during an Aruba to Panama voyage. Provence left the Shell fieet during the war. He relief tug engineer and Provence is a tug engineer. The reactions of Serce 50 relations to send from their before at 0.031 Peb 0.16 were varied. They as others had and others would until the ar indifference in reacted in degrees of univery. It can indifference ire, pante. Families whose buils ways overcook the waterfront bungalow 12, which no longer exists. The sleeping area in the residence was away from the sea. The glow of the burning Pedernales, however, disturbed lagoon were awakened to a war that had spilled itself and all the fire and destruction that goes with it at their very doorsteps. The Fred C. Eaton family was one brought abruptly to the face of war. The Eatons lived in Mrs. Eaton's sleep.

residents, was that someone must have been careless; it The thought of enemy attack She wakened her husband and pointed to the orange giow that gianced through the louvers and flickered eric fingers of light across the celling. Eaton rose and from the front of his house he saw the burning tanker. His immediate conclusion, conflorted in the complacency which seemed to have predominated the thought of most must have been an accident. never entered Eaton's mind.

He peered into the lagoon area watching the flames mout. A second ship, farther downwing, exploded. Con-placency still was the guidige attitude. Thought Eston: a spark from the burning ship blown by the Trade Winds must have ignited the second tanker. A display of pyro-technics zoomed overhead. Eaton reasoned that the fire

bungalow 241 where they watched the Haming waters

was greatly concerned with lights in the harbor area was the then general manager, L. G. Smith. He dashed along the boardwalk throwing rocks at the lights that quickly when the users realized this was war. Some residents drove to the lagoon area with car lights blazing until they realized this was not accidental fire. One who illuminated the walkway from the main dock to the lake all the families in Aruba. The only scrap the Eatons suffered Feb. 16 was the collision their blacked-out car quite as careful about their lights. Bright little spots of incandescence flicked on in homes and then were doused Eaton's family was spared direct enemy action as were had with another while both were proceeding to the shelter of the church congregating area. Others were not tanker dock. He extinquished all of them.

of their ship was the majority of the crew of the SS Henry Gibbons. Only the crew and few others knew of the The community residents concentrated on moving from Some watched the fires burn themselves out, and saw The ambulance raced back and forth taking the injured to the hospital. The harbor was alive with small boat activity bent on rescuing survivors. Watching the action from the deck areas in close proximity to the refinery and tank farm. the unsinkable Pedernales drift away. 3000 tons of TNT in the ship's hold.

fused to proceed into what he adjudged certain disaster. reported. She had been scheduled to sail shortly after midnight, but the crew's insistence to have coffee before they sailed kept the ship at its San Nicolas Harbor berth. The concession granted and the desire filled, the Henry Gibbons eased away from its berth shortly after 0100, The ship was almost in position to clear the harbor exit when the Pedernales went up in flames. The captain wanted to continue full ahead, but the pilot re-The Gibbons was returned to her earlier berth. The Army it was ship left later in the morning when the submarine threa The ship's sailing had been delayed by coffee, had been cleared by Allied aircraft. Feb. 16.

With the exception of the Gibbons, there was no ship traffic in or out of San Nicolas Harbor Feb. 16. In fact, it was packed with ships nestled together inside the protective reef barrier.

suggestion system. The suggester, however, wanted to be possible to ensure earnest consideration and hopefully high remuneration. It was indeed a worthwhile suggestion paper clippings, baseball schedules and travel folders reposed a suggestion. It was written in detail, checked thought Henri M. Nassy, former public relations em-In one Lago desk drawer atop a sheaf of papers, news and ready to be dropped into the company-sponsore satisfied that he had presented his idea as logically



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ARUBA ESSO NEWS

sion; nan a mira e vlamnan. E tanquero a coi rumbo pa asiati. Un homber a worde miriá dan ava. Captan di Ramona a ordena piena forza patras pa recoga e sobreviviente. Segun e movecion delantero di e bapor tabata mengu y despues para, un obheto heiente a cruza dilanti su boeg.

Sach for di den awa y puntrá kiko a socede, e figura Racá for di den awa y puntrá kiko a socede, e figura muhá y na zacta den e salbabida a identifica su mes como freman di Tra Janan y a grita : "Torpedo". Torpedo." Cavitan di Ramona a grita va blena forza adilanti.

Therman of 1.3 ration / 9 agrics: 'Torpeton / Dorpeton', Chybran di Ramoura a grita par locar adilinit notro cue orden tabuta ve resilization di loke a caba di corta dilanti su boegg. En novecina delantero di Ramona tora tabuta mada retardi, y net bastante. Un segunda torpado a corta doro di avan anti purira di e tanquero. Corriendo cut tur e velocidad cu si motoruma por furmi, e bata sabi cu un submarho tabutin pe na vista, y el no bata segun cuanto determinacion y venganza a vorcie bata sabi cu un submarho tabutin pe na vista, y el no bata segun cunto determinacion y venganza a vorcie bata do halan.

Pe 0400 mices a sporten ti tripulacion di Ramona ora nun a tende informe di un segunda explosion. Viam no tabata, visibie mes ora. Capita di Ramona a realiza cu l distata masegrando dara was no di cual tabatin dos, posibiemente mas, submarino enemigo.

Ranous a corta su visio purá par é lago con arceplano a sparcee den laria maina. Salho cu protection arce, la mona a bolle siow par ordin sobuctriota. Ta e ora e tripulación a mira e tanquero cu a worde gedi do vez, Adilanti tabélin sectoran di e hale tanter San Nicolas El tabata pará verticai, su trana arlía loció y su borg den ana, comos il arge é labata feta di concetador.

Triplusion in Ramona a haya grupomi chikito di homber na vista; un grupo di esis tahuta colgi na resto di mo bolo salbaba y cuatro otro tabata warta nu un otto chikito gelotier. Di e dire, solamente ocho a worde tida a boto di a tanquero sulbador. Dos homber a sijo taba a boto di a tanquero sulbador. Dos homber a sijo to ava, par tida di orduzata, cu antitio y mes presente. Dio etta bai perti a oto un cabuya di Ramon, pero su tegole.

Ratona ye tanquero Yamanda di Lage a salha dice colo tripulatre di San Nicolas, Siefe a perde ma bida sea avorde mati al instattore care percenterpredo a dal e caratto di maquina. San Nicolas a leun abruptamente, entre o di a ngagan canden. Esaki aparentemente a preupa e comudante di submarino y un astro di ora dasupas di tira su promet torpedo el a marka un segunda torpedo destructivo den handa putra di San Nicolas. Ca su bodega Mbre, la a sink ilute, atras promet.

Ramona a hiba su sobrevivientenan Maracaibo, y a laga atras e bodega di San Nicolas, un tanquero Guif

is the state of the solution or and . E conclusionman tabata hopi, paro tur tabata yega a e mes concleas. Matures promer cue a datale indiferencia india regia, avor fenor and a state dond in the par. Nan tabata regia, avor fenor in holbe, y cu doke a sociede mardiga aki tabata solata holbe, y cu doke a sociede mardiga aki tabata solatare e principio. Ora man phe, saina headean tabata pensa, nan lo biti melor, pregaci y cu phan definitivo, ya pensa, nan lo biti melor pregaci y cu phan definitivo, ya Tur nan sumprion tabata basia athata pensa, nan polati melor pregaci y cu phan definitivo, ya Tur nan sumprion tabata basia athata e principan Provo 'e bandeman aki tabala sola, ',', nuturalmette, mo

Poco e hendenan aki tabala sabi, y, naturalmenta, no cu no solamente un U-156, bman durante e ultimo dos ciendo e cabalidad cu ta marca e homber. anteriormente a studia tur detaye visible door di su periscoop, tur loke el por a mira di boca di hant, configuracion di haaf y situacion di su piernan, e sitio unda tanqueronan ta mara, tank farm y e refineria mes, manera Hartenstein ta referi dia y anochi a observa tanto refineria di Lago y di Shell ariba tanqueronan insospeuriba refineria no tabata inna dje. Hartenstein, chertroduccion di su comandante y a haci numeroso practico choso. E tiramento di U-156 pero tres otro submarino Al tabatin medio pa nan sabi, den su log.

Residenticant energ dir reliefui, sincembargo tabata argumenta den tencor en contentical, sincembargo tabata argumenta au experiencia na otro destructor an el na o ava. Lo ta solamente uncuestico di terrop correre Lago y su recenan lo u involvi dore di terrop correre Lago y su aveva di Aszima. Absorbs den paketamente frantico pa invest di Aszima. Absorbs den paketamente frantico pa nove ana frantisa un distanda seguro for di lamar y remove ana frantisa un distanda seguro for di lamar y repare den server ana frantisa un distanda seguro for di lamar y repare ana se a servet di Allandama, hopi tabatita tempo parecon rentico, sin pensila no tabatita neono pri trabo en a turn ann la colta un badat no momento diopi trabo en a turn ann la colta un badat con conselecso, inconveniente y no di neesided urgente. Pa hai afor den Algun, sinembargo, a prefera di keda. Y den e grupo

All tabuitti sensaryo, a protect al releval to feed a grupo attribution sensu alerto cut a mira oportunidad pa recogn ta ma mes adolomana graph of an protection da graph residentean industrices all tabuta trahando un curá residentean industrices all tabuta trahando un curá residentean industrices all tabuta trahando un curá residentean industrices al tabuta trahando un curá residentean industrices al tabuta trahando un curá residentean industrices a curá tabuta teneratá cu intra su biotrija, kende su casa tubata entertá cu un pa cunucu.

"Unda bo ta bai?" e homber cu intencion di keda cas a puntra.

"Mi ta bai pa cunucu. Mi mester hiba mi familia aya mas protto pesible. Aki nos ta mucho pegá cu refineria. E submarinonan Nazi lo bollo y tira arba mas tanguero, y ariba e tanilana aki va ora nos rawbo lo to no some



evita worde mirá, a fiha contra-balance ariba barril di e cayon unda Hartenstein, e competente official di artillería, a posiciona nan.

a prescuenta and complete tres patrulla exitoso na 1942. Hartenstein a complete tres patrulla exitoso na 1942. Altrenstein a complete tres patrulla exitoso musta mas simembargo, el a opera dentro di vista di Aruha. El a mana en 10,000 tonelado bruto di embarcaico, pa cual el a gaza e Cruz di Caballero y Cruz di Hero y a cual el a gaza e Cruz di Caballero y Cruz di Hero y a cual el a gaza e Cruz di Caballero y Cruz di Hero y a cual el a gaza e Cruz di Caballero y Cruz di la submartio. Miettras eu e tonelada no ta impresito segun martino. Miettras eu e tonelada no ta impresito segun martino faste a patrulla – no ta concel kito Hartenstein a birto gesink tubata representa un promedio di artina hapto. Artha tres patrulla – no ta concol kito Hartenstein a birto-fos abato.

E sinkmentonan aki a socode na 1942 tempo eu activi dadama di U-bost tabata aa ar zenith Bagorana Alado tabatin ana luua di mas peor na Juni 1942, tempo cu 141 hapor a worde gesicht. E periddanan mas severo den regi-

promere ut a worde gedal entre e bapornan gezink a lo largo di e ruta di e lago. In wardin abordo di Ramona a menciona an Provence e sentimento di incidentena stransolt o ru mas provene el a mira viam. Loke el no tabata solt e ora vy tabata cu e vlamnat cu el a mira tabata di Tia Juana explotando.

The avoid exterption is due neutror y a coil candela mesora. Den algun momento el a lour fuctemente. Ava a umiza corre dreatta door di su ossido kibri, y a sinte e bao di un superficie cuto fu cuendela, inhando diezseite di su tripusicion cu ne. Di e cutro lade inhando diezseite di su tripusicion cu ne. Di e cutro lade inhanda diezseite di su tripusicion cu ne. Di e cutro lade inhana di su si e cutta di mais grandi di peridia di bida humano su fi e cuttada mas grandi di peridia di bida humano.

sure contract mass grants of periods to high humano sure contraction and sure that here is a socied tent a Marangenetery of the observitement as worde tent a Marannorization doss imma y despute tree Arnha a tordo the mabega arisa lake tanker y a traha a bordo di Quirequire y bega arisa lake tanker y a traha a bordo di Quirequire y bega arisa lake tanker y a traha a bordo di Quirequire garandos. El tabuta tanho a bordo di Quirequire y anandos. El tabuta tanho a bordo di Quirequire ana salit a shih Maart (, 1944, durante un vaja di Arnha guerra. El a bin traha na Marine Department di Lago Aug. 4, 1947. Tur dos homber fa traha avor ariba tendo and di Lago Semieter ta oliter y tug engineer di releve y Provance la tug engineer. Den lebit di un lessemare na Lago triba un monton di papel, corte for di corani, lista di babaleni y folleto di valo-, tatta sesega un sugrencia. E tatata sarbi en regrandor, sinembargo, tatata kiert sattafrecho en el s originador, sinembargo, tatata kiert a sattafrecho en el s confinador, sinembargo, tatata kiert a sattafrecho en el secto aerto y posible reaumeracion halto. E tatata segura consideracion serto y posible reaumeracion halto. E tatata se actoria serto y posible reaumeracion halto. E tatata se attate empleado di Public Relations. Depetratent y ave attate aerte aerte di sortico di gobierno di Surinan, tatata e compania dei protecto quego. Tatmbe lo rubia e causa Albo door di protega productoran di ptoto necesario y tatatucona generali.

Pero el tabata un poco particular di mas tocante e redaccion y composicion projor. Tambe el di ditat un poco, y enco resultado e sugrencia ainda tabata den sa lacchi (Peb. 16, 1942, e máinta despues cu dos tanquero cargá hancer pafor di rif a worde torpediá door di submarino enceniço.

Su idea: hancra tanqueronan esperando paden di rif pa vuda protega nan contra accion di submarino enemigo. Desputes di e transmito di Feb. 16, hopi residente di casma dan orcentia di refinerita of tank farm a haya mato. Ekaki tabata comprendible y may natural, partiutalarmente sa ma of menco 9 o're mainta despuesi di e diake ora feupo di homber y multerna a reconstrui de

"Si, imediatamente." "Mai, bo kter bender ilo curá di waya si bo ta bai?" e homber a puntra cara seco, pansando cu e trabao duro di instala un su mes lo termita in e momento aki. Asim

'Bende, Homber coge'le. Mi ta bai."

a socede.

Feb. 16 tabata un dia di susto pa tur hende, particularmente esma ut abuta biba terera of train den refineria. Promer en calmo a bolto, pa algun tabata mesos eu nan Promet en calmo a bolto, pa algun tabata mesos eu nan Antaria satia aria in aria di polvo wardando pa e fuse kimando alcarza e explosivo. Nervionan tabata halto. Refenent tabata satia eu e minimo boroto, specialmente noteinam altermente.

Action does empleaded cli Lago a duna otro un spanto di morto deru un escuesado. Ori nam a escha di lakon man, uno a pasa, man pa un servelse di papel eri tabata solga for di a pasa, man pa un servelse di papel eri tabata solga for di a pasa, man pa un servelse di papel eri a della ano di e papel y su polis à travà. E mocion no tabata mas, ni menos eu di e contendorm ni metal. Eli to con pundamente. Feb. 16 simembargo, no tabata un di a dormal. E borcto di e papel di e contendor, manera e ta hori nortamente. Feb. 16 simembargo, no tabata suri vatato di morto. Na mes momento e tapadera di e contendor a silp y a dal un poco duro. Tru dos tabata souri cu anna svoro euror, o mose divendund destrues nun tidata heri one surio e noreo

duro. Tur dos tabata segur en man a worde tirá, Momentoman degues man labata hari ora susto a pasa y ridiculez di e momento a bira aparente. Dí dos a hise'le: "Bo a hera, tira atrobe."

Abordo di e U-156, cual tibata submergi den awanan pa nord di Aruba ora dia a habri Pole. 16, Marinero Bushager amrit di heridanar cunsi door di e cayon en a cortor. Diesarte tora dengra di e attao. U-156 a hanta cu e isla na vista ainda. Hartenstein a intona Nos Tata, Businger "a worde entregé na hanar cu pieno honor militar."

E cayon explotando a kita pia di Von dem Borne afor. Farmacistanta di e submatho por a mergua e sangramento, pero Hartensichi tabita realiza cu el mester a cion medico. Peb. 17 el a rechi perniso for el ministerio di marina Ahama pa pone Von dem Borne ni terra na Martinique, loke ei aluel (pp. 21.

Deputes di poin a more variato effetti di varia na terra, Hartanstein y e U-136 si sgiri ann hanati ali bao avva di Cuchto y Atlantico, E seriedati y determination di Hartanstein y vortus anti dori di eritutucion ora na laga Martineta. El a kara an homberrana zaga dore alga Martineta e barri di ei de control di erituto doro Ora un homber cuasa of su blade experta di mas, el tokata hala un hombe cuasa of su blades experta di mas, el tokata hala un handa cuasa of su blades experta di mas, el tokata hala un banda cuasa of su blades experta di mas, el tokata hala un banda cuasa of su blades experta di mas, el tokata hala un banda cuasa of su blades truma su larger do es a barril a vorde sorti limpi. Welders, trihanda anothi bo targatilas

dită na Hartenstein — a bai perdi. Operando 1,170 submarino den Guerra Mundial II, e submarinoan Aleman a sink 2779 bapor comercial cu un toneladă bruto total di mas cu diez-cuatro milion.

E fin di e U-156 y su comandante di trinta y tres anja a bin Maart S. 1843, mas di meno 350 milla perha di Barbados. Un hombero di Estados Unidos ma patrulla, trenesciendo na Squarkon VP-33, takata bolhendo pa base ora el a mira e submarino ariba ava. Hombernan den mbia y laga paha di cabez arbha e Cubiant 2 sconde den mbia y laga paha di cabez arbha e U-bant E accomente sorprendi y a laga cuatro hom eni, di cual dos a del attorio de brue.

E U-156 a kibra den tres pida y a sink mes ora. E aeroplano a mira sobreviviente ta drief y a tira salbabida y cuminda pa nan, pero bapornan nunca a haya nan.

E U-156 no tabata e ultimo submarino cu a bishita Artho. Maski Fartensito no opera dora mana ni Caribe te su mes destruccion y di su submarlo, nunca el a regresa e sitio di su promer victorianan. Otro a boble, y proses e sitio di su promer victorianan. Otro a tabele y Di no particularmente no mucho despues di e atake di e U-156.

That poor despues di mercia no Dranjestad. Thatta typicamente cla y ture claiman color oranje takata brilla den e manera nigere ut un marca caracteristico di Aruba. Potiser takata e daiman, proc. mus probabis y denote tutata sere Biotolerge un a fibi Harterstein como marca, y a presta au mes cono un sytolo di nuvegatorn marca, y a presta au mes cono un sytolo di nuvegatorn on propriota di a lanta y a tech folimento ariba ava Donajestad. El a lanta y a tech folimento ariba ava mescos ci un baycan den solo tropical. E comparatorn norma i a farindo. Elop lagren a a worde tirá como en an torna ta farindo. Elop lagren a vorde tirá como en an torna ta farindo.

Y miestras e submarino tabeta sintá y su oficialman tabeta wasá, e meduanan et tiadas bole na Juliana School a corre bai canto di awa ja mira e vista. E muchama in prevengacion pa e peligro, a duna completo libertad na nan curiosidad don e excitacion di mira un instrumento di guerra y di historia. Nuce mus tabuth titramento ariba Aruba, y nurea mas tabath sinkmento di tanquero dilanti Aruba. El unico gope enemigo sutri door di esila. Chribense chikito i tabatha promer inzia door di emiquina di guerra di Nazhan den Hemisterio Occidental. Mientras Aruba ya Nazhan den Hemisterio Occidental. Mientras Aruba ya inge contra e refineria et us furni mayor parti di conmigo contra e refineria et us furni mayor parti di conribe parti di dan ava de vez en cuando ja wask, pero i ana fur ama. Agun submarino a worde reportá gezita door di acrojano y proman sitación an Aruba, pero nigura di acrojano y proprana sitación an Aruba, pero nigura di de enusa e infinadi di e mainta di Pelo, 16, 192.



February 16, 1962

IWENTY YEARS AGO

10

A United States Navy patrol bomber sank the U-156 March 8, 1943 Partol busher action, such as this sank the U-Life March 8, 1943, 340 miles case of Barbados. In this exceptional U.S. Navy pholograph taken from the attacking phase, a substation, of the same class as the U-Life, was bounded and sumi-



bloyee and today head of the Surinam Government's information service. It would save men's lives, and surely save the company money in products and equipment. It would also assist the Allied cause by protecting needed save the company money in products and equipment. petroleum products and sorely needed tankers.

But he was a little too intent on explicit wording and proper composition. He also procrastinated a mite, and as a result the suggestion was still in his desk drawer Feb. 16, 1942, the morning after two loaded tankers an-chored outside the reef had been blown apart by enemy submarine action.

His suggestion: anchor waiting tankers inside the reef to help protect them from enemy submarine action. After the Feb. 16 shelling, many residents of homes in at about nine the morning after the attack when groups ious hours. The conclusions were many, but they all spelled out the same answer. Whereas before the innow fear was marines, and what had happened that morning was just the beginning. Their reappearance, the queasy were sure, seen the physical layout of the refinery. Their assump-tions were predicated on the fact that one U-boat had close proximity to the refinery or tank farm got fidgety. This was to be expected and quite natural particularly of men and women reconstructed the events of the prevthe master of many. They had visions of returning subwould be accompanied by better marksmanship and more definite plans of attack since one U-boat had already famous attack complacency was the rule,

".suouot

Little did these people know, and, of course, there was no way for them to know, that not only the U-156, but surfaced and fired on the refinery.

plade became too hot, he stepped aside and another took

grasped the towel's bottom edge and flicked his wrist. The motion was no more no less than he had done hundreds of times before, his paper tracked against the container aptor, as it normally did. Feb. 16 was not a

Moments later they lauged as tensions eased and the ridiculousness of the moment became apparent. Said the second: "You missed, fire again." Aboard the U-156, which lay submerged in waters orth of Aruba the daylight hours of Feb. 16, Seaman usinger died of wounds infleted by the exploding cannon. attack, the U-156 surfaced with the island still in sight. Hartenstein intoned the and the sea with full military ng "I Had A Comrade," Susinger was "delivered to Seventeen hours after the ord's Prayer, the crew sa Businger died of wounds inf north of Aruba the dayli

officer ashore for proper medical attention. Feb. 17 he and determination was feit by the crew when the boat left Martinique. He had his men hacksaw off the splayed and of the thick cannon barrel. When one man tired or his The exploding cannon had ripped off Von dem Borne's toot. The ship's pharmacists were able to slow the bleeding. received permission from the Reich admiralty to put Von dem Borne ashore in Martinique, which he did Feb. 21. After putting his second watch officer ashore, Hartenstein and the U-156 continued their underwater exploits in the Caribbean and Atlantic. Hartenstein's sternness out Hartenstein realized he had to get his second watch

their curiosity in the excitement of viewing an instrument of war and of history.

he suddenly saw the sea monster break through the water's surface. He smiled to himself as he recognized A carpenter at work on a waterfront home looked the form shedding water to be a submarine. His smile was United States' undersea vessel standing by to protect His composure was shattered with the alerting vousness, fell from his ladder. He lay stunned on the When he dared move again, he was no worse because of his fall, only a couple of sore spots and an complacently out to sea from his perch atop a ladder Relaxing a moment, while still appearing to be at work The carpenter, seized with nerreassurance to himself that all was safe; here was cry of Nazi submarine. anxious moment. ground. Aruba.

He stole a guarded look over the water, but the submarine had gone. It had dived when planes from Princess Beatrix Airport took off after the unwanted prowler. The appearance of the submarine caught the Oranjestad population with desires directly opposed. Half the citizenry raced to the waterfront to see, the other half raced into the cunucu to get away.

sionally to look on, but he held his fire. Some submarines were reported sunk by Aruha based air and surface craft, but none recreated the infamy of the morning of Feb. 16, blow suffered by this little Caribbean island was the first of enemy action against the refining installation that provided the lion's share of fuel for the Allied advance. Aruba was never shelled again, and tankers were never launched by the Nazi war machine in the Western Hemisphere. While Aruba and her residents lived in anticipation never came. The enemy rose up out of the sea occasunk along the island's perimeter. The only enemy

Shell refineries and had made numerous practice runs on unsuspecting tankers. The U-156's shelling of the refinery was not her commander's introduction to the plant's lay-Hartenstein, exercising the thoroughness that marked the man, previously had studied every detail visible through his periscope of the harbor's openings, the configuration of the harbor and location of its piers, the roadstead area, the tank farm and the factory, as Hartenstein referred to the refinery in his log. out.

to other underwater destructors. It would be only a mat-ter of time before Lago and environs would be consumed by holocaust inflicted by the Nazi navy. Absorbed in Allied refinery many couldn't be bothered with much of their physical belongings. They, in moments of fremetic, unthinking actions, gave not the first thought to the labors that afforded them the possessions they quickly cast aside as cumbersome, bothersome, irrelevant to pressing desires. Out into the cunucu was the only frenzied packing to move their households a safe distance reasoned in fear that the U-boat commander would relate his findings from the sea and refining unit-lined shore of the largest Residents near the refinery nevertheless

appropriate for a slight fee. His neighbor, whose home was enclosed by an attractive picket fence, was among Some, however, did choose to stay. And of this group there were the quick-witted who saw opportunities to One such industrious resident happened to be constructing a fence around his property. In the course of the mass exodus he looked around to see who had a fence he might gather unto themselves additions free or very low priced those making a dash for the cunucu. hought.

"Where are you going ?" the stay-at-home asked.

a couple more tankers, then shoot at those tanks and we "I'm going out into the country. Got to get my family out there as soon as possible. Too close, too close to the refinery here. Those Nazi subs will come back and shoot will all go up in flames. Not me, I'm going quick. "You're leaving your house ?"

"Yes, immediately." "Aha, will you sell me your picket fence since you're leaving?" asked the unafraid, excited at the thought that the laborious task of constructing a fence for himself 'Sell it! Man, take it. I'm gone." could end this moment. It did.

Feb, 16 was a jittery one for all. It was, to some before composure had been regained, much like sitting on a keg of powder waiting for the burning fuse to reach the

explosive. Nerves were edged raw and tattered. People imped at the alightest noise, especially sharp reports, So it was that two Lago employees in a lavatory gave each other a skin-config scare. Firshised washing hands, one reached for a paper towel that drooped accessibly from a sparking metal wall continer. He

Hartenstein completed three successful partois in 1942, hartenstein completed three successful partois in 1942, have in the Cerbbasa and mar Aldauki. He sank over 100,00 groes tous of shipping, which earned him over 100,000 groes tous of shipping, which earned him the fingular Screes of the front Grees and paced him among the top third's front Grees in the toro. age of twenty ships. On three patrols — it is not known what Hartenstein scored on his fourth and last patrol tonnage is not impressive by today's standards, twenty years ago 100,000 gross tons sunk represented an averfixed counterbalances on the cannon's barrel where Harcenstein, the skilled artillery officer, had positioned them.

fered its worst month in June, 1942, when 141 ships were sunk. The most severe losses suffered in the Carlbean and Mid-Atlantic regions were in Augustr 1942. In that month forty-six ships — four credited to Hartenstein were lost. Operating 1.170 U-boats in World War II, the German submarine force sank 2779 merchant vessels These sinkings occurred in 1942 when U-boat oper-ation was at its zenith. Allied merchant shipping suf-- the U-156 sunk twenty-two ships.

faced submarine. Men lounged on the deck summing them-selves. The PBY Catalina oucked into clouds and dived at the U-boat. The plane flattened out at 100 feet over the commander came March 8, 1943, approximately 340 miles east of Barbados. A United States patrol bomber from completely surprised crew and dropped four bombs, two The end of the U-156 and its thirty-three-year-old Squadron VP-53 returning from patrol sighted the surwhich totalled over fourteen million gross tons. of which straddled the conning tower.

tely. The patrol plane signted survivors and dropped a life raft and rations to them, but surface craft never The U-156 broke into three pieces and sank immediafound them. The U-156 was not the gate submatrix to visit Artula Although Hartnesten Operated in Carlibean waters un-thin and his U-boars operated in Carlibean waters un-thin and his U-boars of operated and and one in particular not long after the U-156's attack particular not long after the U-156's attack. And one in particular not long after the U-156's attack that was shortly after allow in Oranjenad. It was typically hight and all the orange colored rooks show

stad. It came up and floated leisurely on the surface much like a whale lolling in the tropical sun. The com-parison is not unfounded Many whales, mammals, were concerned with the poised danger, gave full freedom to in the gay manner that is an Aruban landmark. Perhaps it was the roots, but more probubly and logically it was the Hoolnerg promontory which served Hartenstein as a landmark, that hent itself as a navigational aid for the the students returning to Juliana School tumbled down a landmark, that lent itself as a navigational aid for the submarine which surfaced in the still waters off Oranje-"sunk" because their sharp resembled that of the U-boat. And while the submarine sat and its officers looked, to the waterfront to see the submarine. The children, un-



Acknowledgements

tering of sequence, a time, a location, a description, all of which helped make this story complete. To our the ly to insure accuracy. Work of this nature can not be those whose identification follow, and the many, many others who supplied a name, a bit of action, a smat-U-156's exploits leading up to and the actual raid on An effort with as many facets as the narrative of the U-156 necessarily must be approached painstakingaccomplished alone; the cooperation of many is needed The author is indebted to those named in the story, Jo the only complete account knowledge, it is Lago.

Wehrwissenchaftiche Kuussenan monthiy); and H. W. Wendt, Esso AG, Hamburg Source material included Battle of the Atlantic by Source material included Battle of the Atlantic by Great assistance was rendered by Rear Admiral D. V. Gallery, who formished the log of the U-156, which hicked of the story: Curt, F. K. Loomis, assistant director of mavel history: Comdr. H. J. Gimpel, Office the Atlantic by F. J. Lundeberg, and United States of Information, Magazine and Book Branch, I.t. Comdr. H. A. Moriock, Office of Information, Pictorial Branch, - all United States Navy - and Capt. A. G. Vroomans, Netherlands State Institute for War Documen-Naval Institute Proceedings. Aruba photographs were editor. Rundschau (German military R. E. Morison, American Antisubmarine Operation tation, Amsterdam; Dr. Juergen Rohwer,

submarine and her crew were supplied by him. To complete Herr Von dem Borne's story, he became a prisoner of war when the Allies retook France and her possessions including Martinique. Two years later the United States military flew him to New York where he boarded the SS Gripsholm with other Germans involved in prisoner exchange. The exchange took place May 19, 1944, in Barcelona, Spain, and Herr NOD dem Borne, German Federal Navy, Kiel, former second watch officer of the U-156 who lost his foot during the Lago attack. Without Herr Von dem Borne's as-Of tremendous help was Kapitanleutnant D. A. the account would not have portrayed intimacy of life aboard the U-156. Pictures of Von dem Borne returned to Germany. taken by R. W. Schlageter. sistance,

WCH

#### On a Personal Note

I was five when the SS Esso Pedernales and SS Esso Oranjestad were torpedoed. It is strange because I remember the night as though it were yesterday and it is one of my earliest of my childhood memories. Of course, being awakened and told the Germans were attacking and then watching two loaded tankers burn not a mile away across the open water is something that would probably be burned into any young mind.

At that time I lived in Bungalow 252, about 1,000 feet from where the Monument Committee would like to place the propeller and less than a mile away, across the lagoon, from where the ships were torpedoed.

My parents had gone to a party at the Army base in Savaneta given by the newly arrived American troops. A friend of theirs, Johnny Sneer, was baby sitting me--his family being in the States on vacation. I called him "Uncle Johnny" although he was not related. He was a tool and die maker as well as head of the refinery foundry.

When the *Pedernales* was torpedoed, Uncle Johnny woke me and said the Germans were attacking. He me out of bed and we walked across the street to the next road going down to Baby Beach. I remember sitting on a white pipe railing with Uncle Johnny standing behind me and holding me. From this vantage point we had a clear view over the water and watched the two tankers burn. This sight is implanted in my brain and to this day is the largest fire I have ever seen.

I do not know how long we were there, but my parents returned and the four of us watched. I remember there was talk among the adults: Should they go down on the beach and look for survivors? Had any of the small launches in the harbor gone to help? Soon after that my father and Uncle Johnny left, presumably to go to the refinery and my mother and I continued to watch the fires.

The next evening Lago went into blackout mode for the remainder of the war; I remember living behind black curtains. This made the house very hot because the curtains prevented the trade winds from blowing through the house and keeping you cool. If the curtains were open you turned off all the lights and sat in the dark. Many a night my family sat in the dark talking about the war after listening to the news on the short wave radio.

Now I live in a retirement community in Austin, Texas. It has been exciting and a pleasure to be able to witness the salvage operation of

the propeller thanks to the miracle of emails and instant photographs as well as video from the web. After the propeller's recovery, the development and planning that has gone into making the propeller into a monument and the effort put forth to obtain a location is incredible. This has all been documented on the web site I maintain. <u>www.lagocolony.com</u>.

I know the monument will become a reality; it is just a matter of time. When completed and dedicated, there finally will be something in Aruba to commemorate and honor those who lost their lives in the effort to supply oil for World War II.

I encourage all of you, if you have not already done so, to please send a contribution to the Memorial Committee. Addresses where you can send a check are found at the end of this book.

Dan Jensen, Austin, TX July, 2009



## Additional Reading and Sources

On my web site, <u>www.lago-colony.com</u>

- THE DAY HITLER LOST THE WAR by Lee A. Dew
- <u>STATISTICS ABOUT LAGO</u> compiled by Don Gray
- <u>ORANJESTAD PROPELLER</u> About the retrieval of the propeller.
- WHEN LAGO WAS LUCKY by Ray H. Burson

For sale in book stores in Aruba.

• THE LAGO STORY by Jorge R. Ridderstaat

Other Web Sites Related to the Story.

- <u>http://uboat.net/boats/u156.htm</u> U-boats/156
- <u>http://www.aukevisser.nl/</u>
   Lake Tankers
- <u>http://www.ubootwaffe.net/ops/boat.cgi?boat=156</u>
  Information about U-156
- <u>http://www.mindspring.com/~divegeek/home.htm</u> Dr. Larry "Harris" Taylor's web page
- <u>http://www.mindspring.com/~divegeek/deep.htm</u> Dr. Taylor's article on deep diving.
- <u>www.aguamet.nl</u> Rigo Hoencamp (This web site is in Dutch)

### Addresses To Send Your Contribution

THE SS ORANJESTAD MEMORIAL COMMITTEE c/o Dufi Kock, 125 Savaneta, Aruba, NA

THE SS ORANJESTAD MEMORIAL COMMITTEE c/o Dan Jensen, 2500 Barton Creek Blvd. #1512, Austin, TX 78735

# THE END

#### NOTES