

Breaking News
USS Albacore Found!
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THE PERISCOPE

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PRIDE RUNS DEEP



"To perpetuate the memory of our shipmates who gave their lives in the pursuit of duties while serving their country. That their dedication, deeds and supreme sacrifice be a constant source of motivation toward greater accomplishments. Pledge loyalty and patriotism to the United States of America and its Constitution."

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Editor's Corner

Some rather big news mid-month: they found the wreck of the *Albacore* (SS-218) off the coast of Japan (p.18). Don't know if you remember, but she took out a front-line Japanese carrier on the same day in nearly the same spot as sister sub *Cavalla* took out one too. Talk about a one-two punch sealing the fate of the enemy's carrier air arm! I recall reading about it in Capt. Edward L. Beach's phenomenal book *Submarine!*—a favorite. Simply amazing what our boats accomplished back then.—Jeff

The U.S. Navy Submarine Force Could Sink the Chinese Fleet and Save Taiwan, But at the Cost of a Quarter of Our Boats

(From the Forbes website - published January 10, 2023.)

by David Axe



USS Seawolf (SSN-21). (U.S. Navy photo.)

If or when China attacks Taiwan, the U.S. Navy's submarines could be the first defenders to take shots at the Chinese invasion fleet.

How many Chinese ships the American attack boats can sink, and how quickly, could make all the difference in the apocalyptic "ultra-mega" war, to borrow a phrase from Ian Easton, an analyst with the Virginia-based Project 2049 Institute.

A successful U.S. submarine campaign could help bring the war to a swift end, preserving Taiwan's independence and blunting China's global ambitions. A failed undersea campaign, by contrast, could invite Chinese dominion over Taiwan and the whole Western Pacific region.

Win or lose, the U.S. Navy should brace for heavy losses. Even a victorious USN sub fleet could suffer staggering losses in battle with the Chinese navy around Taiwan.

That's one sobering result of a series of war games organized by the Center for Strategic and International Studies in Washington, D.C. In most of the twenty-four iterations of the game,

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From the Wardroom...



Dave Vanderveen,
Base Commander

Shipmates and Ladies,

Our February meeting was attended by twenty-one folks, the best regular meeting attendance since before the health lockdowns! Thank you to all who made the trek to Seal Beach, including Harold Staggs—who even brought a prospective member with him! The March meeting will be held again at Glory Days Beachside Grill, 620 Pacific Coast highway in Seal Beach.

We committed in January to find meeting locations in other parts of the Los Angeles Basin to make it easier for members who live outside North Orange County to attend. Ron Jones is working with his VFW Chapter to see if we can meet in April at their facility in Anaheim. We will know more soon, and will get that information out as early as we can.

Effort is underway to secure a spot where we can hold our Steak Fry in June, and we plan to hold our Annual Leroy Stone Memorial Picnic and Auction at Yorba Regional Park in East Anaheim. More information to come!

We had petitioned USSVI's National Office for a \$3,000 grant from the Charitable Foundation's Memorial fund to cover the cost of storing our memorabilia, tools and equipment, which had been in Building 6 at NWSSB. The petition was denied because the National office will be moved from Silverdale, WA to Groton, CT and that money will be used for the move. (And, yes, I am disappointed!)

Preparations are well along for this year's Memorial Day Ceremony with Field Days scheduled at the WWII Submarine Memorial on May 20th and 27th. Our regular May meeting will be held at the Memorial on May 20th, and we will have restroom facilities that day.

Preliminary work is underway with the City of Huntington Beach for our participation with Bonefish Base in this year's Independence Day Parade. For those who have not been in that parade, I hope you can do it this year. As one of my grandkids says, "It's a HOOT!" The parade is the biggest west of the Mississippi River, and ABC-TV estimated the crowd last year at nearly 400,000 people along the parade route. It is well worth doing.

The Western Region Roundup is to be held April 27-29 in Sacramento. George Wallace, an author and member of our Base, will be the keynote speaker on the 27th. Several of us have signed up to attend, and you can find the material in the Base email if you also want to be there.

Our membership has grown to 102 members, and the newest just attended our February meeting. He is Larry Lovett, a retired pharmacist whose uncle, an Electrician's Mate, was the youngest man to be lost aboard the *Tullibee* when she was sunk by her own circular-running torpedo. His father was in the Navy during WWII aboard a destroyer and the battleship *New Jersey*. Welcome, Larry!

As part of current life, please be aware that COVID still lurks and remains dangerous to folks in our age demographic, so continue to protect yourself as you know best.

Dave

Dave Vanderveen, Commander
Los Angeles-Pasadena Base

Late-breaking news: base Membership Chairwoman Marilyn Senior has fallen, broken her hip, received surgical repair with a metal rod in her femur, and has already begun some physical therapy. Of course we all wish Marilyn a swift healing process so she can be back on her feet soon. More on this situation in the next issue. Temporary address: UCLA Harbor General Hospital, 1000 W. Carson St., Torrance, CA 90502—ed.



Minutes of February 18, 2023 General Meeting



February General Mtg. Sailing List

Ed Banda
 Herb "Bo" Bolton
 Dennis Bott
 Ken Dorn
 Sam Higa
 Craig Ignatowitz & Anna
 Ron Jones
 Joe Koch
 Larry Lovett
 John Lucio (Bonefish Base)
 Bill Moak
 Greg Paulson
 Jeff Porteous
 Art Schwartz
Harold Staggs! :-)
 Mike Swanson
 Ray Teare
 Dave Vanderveen
 Ron Wagner
 Dennis Walsh



Base Commander Dave Vanderveen called the General Meeting of the L.A.-Pasadena Base to order at the Glory Days Restaurant in Seal Beach, CA at 1110 hours after food and beverage orders had been taken. After a brief description of our purpose, a moment of silence for our departed shipmates was observed. Dave then reminded us of the reinstatement of our 50-50 drawing at \$1.00 per ticket or \$5.00 for six. He also indicated that the January Meeting Minutes and Treasurer's Report had been approved by the E-Board at their meeting. (*The Treasurer's Report appears in the E-Board Meeting Minutes elsewhere in this issue as usual.—ed.*)

Dave then took some time to recognize a few of those in attendance, specifically John Lucio, now of Bonefish Base, but once an L.A.-Pasadena member; Ron Jones, back after a short absence; Larry Lovett, our newest Associate Member and a retired pharmacist of 42 years whose dad had served in the surface Navy and whose uncle had been lost aboard *Tullibee* during WWII. (This uncle had joined the Navy at age fifteen, and was just seventeen when lost in the Pacific.) Ed Banta, a friend of Harold Staggs, was also introduced, and we hope he'll join us as a new member. He had served aboard the second *Wahoo* (SS-565).

Memorial Update:

Dave mentioned the refusal of our base's request for \$3K from National to support the storage of our memorial-related material. Apparently they're choosing instead to use charitable funds to support the move of their General Offices to Groton. Dave was perplexed by that logic—and the rest of us likewise disappointed.

John Lucio explained that Bonefish Base stores their big submarine parade float at a warehouse in Norco, and may have room for our items when they do not require immediate availability. He will bring this up at the next Bonefish Base meeting.

Memorial Day Preparations:

Joe Koch is in touch with Point Loma concerning a speaker for our ceremony. Dave has submitted the required service request regarding seating and other items provided by the Navy, and has sent an invitation to Capt. O'Brien to be Opening Speaker.

John Lucio made all aware of the Bonefish Base's attempt to create a Submarine Memorial at the Riverside National Cemetery. Their base is actively working on this, and hope to find a submarine sail to be used in the construction of the memorial.

The Riverside National Cemetery (one of the country's largest) has recently obtained ownership of adjacent real estate once belonging to a golf course—and plans to expand.

Ken Dorn's Fundraising Offer:

Ken explained he has a myriad submarine-related items that he now intends to turn over to our base in the hopes of eventually raising funds for our treasury.

(concluded on next page)



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Just the Place for Killer MidRats!

Hey, know anyone on boats out of New London? Or, planning a visit to Groton yourself? Drop anchor at this local dive: **Wings'n'Pies** at 924 Route 12, just down the road from the Base's Main Gate. Your editor enjoys firsthand knowledge that the pizzas here are some of the tastiest and sloppiest around. Forget those extra napkins—just wipe your greasy fingers on your shirt and they'll think you've been hanging out with the A-Gang!



General Meeting Minutes...

(concluded from previous page)

One of the items is a watercolor WW2 fleetboat painting by Capt. Lloyd Bucher, who Ken befriended some years back. Ken also displayed a newspaper article from the time of the *Pueblo* capture, as well as books and other memorabilia.

Western Regional Roundup and National Convention:

Dave indicated many interesting tourist draws surrounding the Western Regional Roundup, and that an L.A.-Pasadena member, George Wallace, is to be a keynote speaker at the event.

Dave also mentioned some cool activities and locations to be found near and around the National Convention site in Tucson, coming up in August.

Base Event Calendar Update:

Dave mentioned that no meeting place has been established for our next meeting, and asked for suggestions. While Darin Detwiler is actively seeking new sites, we have the June Steak Fry and July's Leroy Stone Memorial Picnic to be assigned practical locations. Logically, these could be held in parks—but what about our next meeting? After no alternatives came readily to mind, it was agreed we would once again meet at the Glory Days Grill in March.

The 50-50 raffle was then conducted, with newcomer Larry Lovett the winner. Larry donated his winnings back to the base. *(How'd he know that?!)*

The Good of the Order:

John Lucio shared a picture of his son, now fourteen, himself and Admiral Kauderer taken while John was a member of L.A.-Pasadena Base many years back.

A question regarding sponsoring an ad for the National Convention program was tabled for a date closer to the event.

Dave mentioned the issue of the new plaques to be placed behind the memorial sign being currently at unknown status.

Bill mentioned the hospitalization of Paul Riggs, plus his surgery, and Jack Mahan's now having pneumonia after contracting COVID.

Sam Higa mentioned all the fuss over the recent spy balloon activity, and how this had been conducted for years, even by submarines. Sam had recently met a shipmate who was personally involved in such activity some years back, and others mentioned awareness of this cloak-and-daggering during their own service.

There being no further business, Joe Koch motioned for adjournment; this was seconded by Dennis Bott and approved by all present, adjourning the meeting at 1207 hours.

Respectfully submitted,

Bill Moak

Secretary, L.A.-Pasadena Base, USSVI

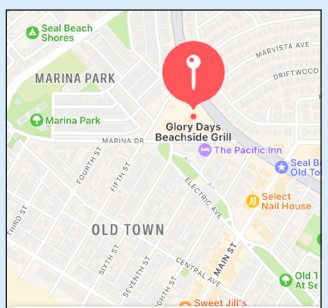
March Meeting at Glory Days Restaurant

March Meeting

Date: Mar. 18, 2023

Glory Days Grill in Seal Beach will once again be the site of our monthly gathering: Board Meeting at 10:00 a.m. and the General Mtg. at 11:00 a.m. Hope to see you there!

Glory Days Beachside Grill
620 Pacific Coast Hwy.
Seal Beach, CA 90740
562-594-3800



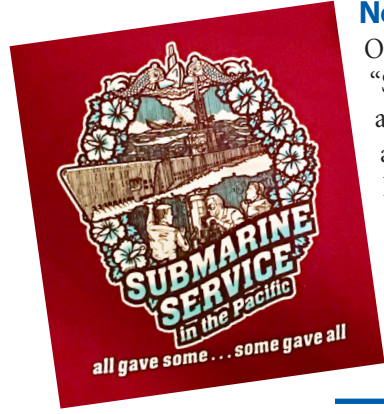
Glory Days Beachside Grill



March Birthdays

- We hereby extend the happiest of wishes to all our L.A.-Pasadena Base birthday celebrants!
- Bill Soulé.....3/2
 - Richard McPherson3/4
 - Judy Arnold3/10
 - Arthur B. Schwartz, Jr. .3/11
 - Ed Kushins.....3/15
 - Lee Melody3/26
 - Michael Klein.3/27

Ship's Store



New Reduced Price on T-Shirts!

Our ever-popular L.A.-Pasadena Base "Submarine Service" tees are once again selling like fresh whites after a fall down the pump room hatch! Now a mere **ten bucks** apiece, there's no reason not to have a closetful. Contact Jack Mahan for yours, or just bring a few extra bucks to the next meeting, you skinflint!

2023 Calendars Now Available!

Order at ussvnationalstorekeeper.com
Or see details elsewhere in this issue. Don't miss out—they're selling fast!



Get in touch with our Storekeeper, Jack Mahan, at 714-349-5878 for more purchasing information.



USSVI Logo Patch
(9¾ x 6¾)
\$11.00 ea.



L.A.-Pasadena Base Patch
(3¾ x 5)
\$5.00 ea.



Holland Club Member Patch (3x3)
\$6.00 ea.

LOS ANGELES - PASADENA BASE

2023 FLOWER FUND and BOOSTER CLUB

A special thank you to the following folks whose generous contributions this year have helped make our base activities and charitable functions possible:

- Angus McCall • Joe Dow • Dennis Bott • Ed Barwick
Darin Detwiler • Karen Silverman



Booster Club and Flower Fund donations are welcome in any amount and are often also popular with 50/50 Drawing winners at our base meetings. Contributions can be made in cash or by check payable to L.A.-Pasadena Base of USSVI. Checks may also be sent to Mike Swanson at 1149 W. Santa Cruz Street, San Pedro, CA 90731. To ensure proper credit, be sure to indicate Booster Club or Flower Fund on your check.

UNITED STATES SUBMARINE FORCE LOSSES ON ETERNAL PATROL

“I can assure you that they went down fighting and that their brothers who survived them took a grim toll of our savage enemy to avenge their deaths.”

— Vice Admiral Charles A. Lockwood, USN

MARCH TOLLING OF THE BOATS



USS PERCH (SS-176)

Lost near Java on March 3, 1942 during her first war patrol. There was no immediate loss of life. Forced to surface after two severe depth chargings by three Japanese destroyers in less than 200 feet of water, *Perch's* crew abandoned ship and scuttled her. Of the fifty-nine officers and men taken prisoner, fifty-three somehow survived the deprivations of POW life while six of their shipmates perished.



USS GRAMPUS (SS-207)

Lost on March 5, 1943 during her sixth war patrol, *Grampus* was sunk while engaging two Japanese destroyers in Vella Gulf. Seventy-one officers and men were lost.

USS H-1 (SS-28)

Lost on March 12, 1920 after grounding on a shoal near Santa Margarita Island off Baja California. Four men drowned as they tried to reach the rescue vessel *Vestal* (AR-4), which had finally arrived to pull the stricken sub off the rocks on the morning of March 24. The *H-1* sank while under tow just forty-five minutes later in only fifty feet of water. She had originally been USS *Seawolf* before designated the *H-1*.



USS TRITON (SS-201)

Lost on March 15, 1943 north of the Admiralty Islands during a fight with three Japanese destroyers. *Triton* had been the first American submarine to engage the enemy in December of 1941, just off Wake Island. Her war record was an impressive nine ships, one submarine, and one destroyer sunk. Seventy-four men lost their lives when *Triton* went down.



USS KETE (SS-369)

Lost on March 20, 1945 at the end of her second war patrol. Eighty-seven officers and men were lost. *Kete* was probably sunk by a Japanese submarine near Okinawa, which itself was subsequently lost.

USS F-4 (SS-23)

Lost on March 25, 1915 when she foundered 1.5 miles off Honolulu. Acid had corroded her battery tank lining, allowing seawater into the compartment which ultimately caused her loss. *F-4* was the first submarine of the United States Navy to be lost at sea. Twenty-one souls went down with her.



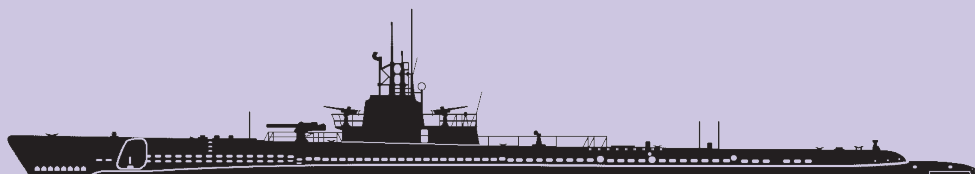
USS TULLIBEE (SS-284)

Lost on March 26, 1944 during her fourth war patrol. *Tullibee* was the victim of a circular run by one of her own malfunctioning torpedoes. A lookout was her only survivor; taken prisoner, he ultimately survived the war as a Japanese POW. Seventy-nine officers and men were lost aboard *Tullibee*.



USS TRIGGER (SS-237)

Lost on March 26, 1945 while on her twelfth war patrol. *Trigger* went down as a result of a combined effort by Japanese naval and air anti-submarine forces. She ranked seventh in total tonnage sunk and tied for eighth in number of ships sunk. Eighty-nine officers and men perished when she went down.



WE REMEMBER For those who gave their lives in defense of our country WE REMEMBER

Russia's Troops Tied Down in Ukraine, But Some of Its Best Subs Still Hold U.S. "at Risk," Top U.S. Commanders Say

(Business Insider article reproduced from yahoo!news website - published January 18, 2023.)

by Christopher Woody



Russian Severodvinsk-class submarine Kazan at its home base in Severomorsk in June of 2021. (Lev Fedoseyev/TASS via Getty Images.)

- U.S. military leaders have warned that Russia's *Severodvinsk*-class subs are operating near U.S. coasts
- *Severodvinsk*-class subs have a mix of stealth and striking power that worries U.S. and NATO navies
- Events in Ukraine appear to validate Russia's ambitions, and NATO's concerns, about those subs

A year of renewed fighting in Ukraine has depleted and embarrassed Russia's air, ground, and naval forces, but one component of Russia's otherwise struggling military—its submarines—still worries U.S. commanders.

Submarines are a relative bright spot in Russia's recent naval modernization efforts, especially the *Severodvinsk*-class subs that U.S. officials say are hard to detect and capable of striking important targets in Europe and the U.S.

Despite the high-profile loss of the guided-missile destroyer *Moskva*, the Black Sea Fleet flagship, in April, Russia's navy remains "largely intact" and continues "to do what we've always seen" it do, Rear Adm. Michael Studeman, commander of the Office of Naval Intelligence, said at an Intelligence and National Security Alliance event on January 11.

"But they have more advanced capabilities with their *Severodvinsk* SSGN. There are three of those out there now and they'll be building more," Studeman said, using an acronym referring

to nuclear-powered guided-missile submarines.

Russia plans to build nine *Severodvinsk*-class subs, which it calls the *Yasen* class, and may add more in the future. Those subs are "very, very advanced," have "multi-mission capabilities," and are increasingly active, Studeman said.

"They have started doing patrols in the Atlantic, holding the United States at risk in some of their patrol areas, and they recently moved one into the Pacific," Studeman added. "So there'll be a dual-flank challenge for the United States in trying to track and hold accountable where those submarines are and what they're doing."

Studeman's comments echoed those of U.S. Air Force Gen. Glen VanHerck, the head of U.S. Northern Command and NORAD, who in October warned about the increasing presence of *Severodvinsk*-class subs off of U.S. coasts.

"What has been an episodic threat to the homeland, typically in the fall and through the winter timeframe, will become a persistent, proximate threat," VanHerck said at the Association of the U.S. Army Conference on October 11.

VanHerck has said in the past that *Severodvinsk*-class subs are a top concern, describing them as "on par with" U.S. submarines.

Those subs' increasing activity in the Atlantic and the Pacific

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Russkie Subs Still Holding U.S. “at Risk”

(continued from page 7)

means they “will be a persistent, proximate threat capable of carrying a significant number of land-attack cruise missiles that can threaten our homeland today,” VanHerck said.

“Right out of the Russian Playbook”

Construction of the first *Severodvinsk*-class sub, also called *Severodvinsk*, began in 1993. It entered service in late 2013. The second and third subs, *Kazan* and *Novosibirsk*, have since entered service and the fourth, *Krasnoyarsk*, is undergoing sea trials.

In addition to nuclear propulsion, *Severodvinsk*-class subs have advanced quieting technology and are built with low-magnetic steel, making them harder to detect. They are armed with torpedoes as well as anti-ship and land-attack cruise missiles that can be fired vertically.

The subs built after *Severodvinsk* are similarly armed but have a



Sailors aboard Russian submarine *Severodvinsk* during basic training in the Murmansk Region in March of 2018. (Lev Fedoseyev/TASS via Getty Images.)

number of upgrades, including new quieting technology and a quieter nuclear reactor.

The ability to attack targets on land with cruise missiles is a relatively new one for Russian submarines. They demonstrated it in the mid-2010s by firing Kalibr cruise missiles at ISIS targets in Syria, surprising some U.S. officials.

Those capabilities have inspired admiration and worry among Western officials. Their main concern is *Severodvinsk*-class subs could lurk off their coasts and attack vital infrastructure, such as ports and airfields needed for re-supply and reinforcement, with cruise missiles.

In the “threatening period” immediately before a conflict, Russia would deploy much of its naval power closer to its shores, but in the “far seas,” including most of the Atlantic Ocean, Moscow would make “much more limited use of

(concluded on page 9)



The Russian submarine *K-560 Severodvinsk*. (Russian Ministry of Defense photo.)

Russkie Subs Still Holding U.S. “at Risk”

(concluded from page 8)

nuclear-powered submarines” because it lacks the resources to operate them there effectively, according to Michael Petersen, director of the Russia Maritime Studies Institute at the U.S. Naval War College.

“When it comes to long-range precision-strike warfare, Russia’s logistics and sustainment and striking power decrease with distance,” Petersen said during a presentation in August.

But some developments in Ukraine appear to validate Russia’s ambitions—and NATO’s concerns.

Petersen said Russian reports suggest that Kalibr missiles have “proven their worth” to Russian commanders, who have been “relying heavily” on them to strike important targets.

A Ukrainian attack on Russian forces also appears to have bolstered Russian thinking about what Petersen called “targeting maritime resupply at the pier”—a scenario for which NATO navies have renewed their training.

In March, a Ukrainian missile struck a Russian landing ship docked in Berdyansk. Ukraine had used intelligence about the ship’s location to “strike that vessel, that single vessel, with a pre-



A Russian Alligator-class landing ship burning and partially sunk in the city of Berdyansk after a Ukrainian attack on March 24. (Maxar Technologies via Getty Images.)

cision-strike munition,” Petersen said. “That is exactly right out of the Russian playbook, and that is something I think that the Russians, in a sort of weird and perverse way, were able to learn as something that they can use to their advantage in the future.”

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USS <i>Columbia</i> (SSN-771)	USS <i>Montana</i> (SSN-794)
USS <i>Connecticut</i> (SSN-22)	USS <i>North Dakota</i> (SSN-784)
USS <i>Delaware</i> (SSN-791)	USS <i>Kentucky Blue</i> (SSBN-737)
USS <i>Greeneville</i> (SSN-772)	USS <i>Kentucky Gold</i> (SSBN-737)
USS <i>Helena</i> (SSN-725)	USS <i>Maine Blue</i> (SSBN-741)
USS <i>Hyman G. Rickover</i> (SSN-795)	

Questions?

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The U.S. Navy Just Laid the Keel for a New Attack Submarine: USS *Arizona*

Commissioned in 1916, the original USS *Arizona* was one of several ships sunk on December 7, 1941, in Pearl Harbor.

(Reproduced from the Popular Mechanics website - published December 21, 2022.)

by Kyle Mizokami



Virginia-class fast attack submarine. (NurPhoto//Getty Images.)

It's official: The U.S. Navy has a new USS *Arizona* on the way, eighty-one years after the loss of the original ship during the air raid on Pearl Harbor in 1941.

Earlier this month, the service held the keel-laying ceremony for the new USS *Arizona*, a *Virginia*-class attack submarine, at submarine builder General Dynamics Electric Boat's Quonset Point facility in Rhode Island. It took place on the anniversary of the infamous raid that brought America into World War II.

This ceremony's honoree was Nikki Stratton, the granddaughter of Donald Stratton, who served aboard the original *Arizona* during the Japanese attack that led to the ship's sinking. Stratton continued to serve with the Navy throughout the war. He died at 97 in February 2020.

The Navy defines keel-laying as "the joining together of a ship's modular components and the authentication or etching of an honoree's initials into a ceremonial keel plate."

Commissioned in 1916, the original USS *Arizona* was one of several ships sunk on December 7, 1941. Of the 2,403 Americans killed during the raid, 1,177 were killed aboard the *Arizona*. Unlike other ships, which were raised and repaired after the attack, *Arizona* was too badly damaged, becoming a permanent memorial to the attack in 1962.

The U.S. Navy frequently reuses ship names, but until now has never reused *Arizona*. In 2019, the Navy announced that the first two *Virginia*-class submarines of the new Block V type would be named USS *Arizona* and USS *Oklahoma* after

another battleship sunk during the attack.

Block V submarines will introduce new capabilities into the Navy's submarine force. The *Virginia* class, like many warships, was built in "blocks," starting with Block 1. Each block typically adds more technological capabilities that become available as the ships continue to be built.

A particularly anticipated update, Block V will add the new *Virginia* Payload Module (VPM) to the *Virginia*-class subs. The VPM, inserted into the middle of the submarine's hull, adds an extra 84 feet to the ship's overall length. It includes four large-diameter, vertical launch tubes. Each tube can accommodate seven Tomahawk cruise missiles, which as a Congressional Research Service report notes, "would increase the total number of torpedo-sized weapons (such as Tomahawks) carried by the *Virginia*-class design from about 37 to about 65—an increase of about 76 percent."

The VPMs will also be able to trade Tomahawk missiles for an unknown number of the Navy's new hypersonic missiles, dock for the service's new extra-large unmanned undersea vehicles, and serve as an egress/ingress point for SEALs and other diving personnel.

Block V boats are the last update for the *Virginia* class before the Navy begins construction on its next-gen attack submarine. While some might have preferred to keep the name *Arizona* retired, it seems fitting to return it to service in a time of increased tension in the Asia-Pacific, armed with the Navy's most advanced weapons.

Possible Result If U.S. Subs Took on China Over Taiwan

(concluded from page 1)

“submarines were able to enter the Chinese defensive zone and wreak havoc with the Chinese fleet,” analysts Mark Cancian, Matthew Cancian and Eric Heginbotham concluded.

But even in the scenarios that were optimistic for Taiwanese and allied victory, the U.S. undersea force, which today numbers fifty-three nuclear-powered attack and cruise-missile submarines, lost up to a quarter of its boats and thousands of sailors.

The losses are indicative of the intensity of the submarine campaign that CSIS projected. The think-tank assumed the U.S. would commit all or most of its undersea fleet to a war with China, perhaps setting aside just a few boats to continue shadowing Russian ballistic-missile subs.

The forty or fifty submarines would organize in squadrons of four boats apiece and deploy to U.S. bases in Guam, at Wake Island and in Yokosuka, Japan. One squadron should be on station in the narrow Taiwan Strait when the first Chinese rockets fall and the invasion fleet sets sail.

In CSIS’s war games, those four boats sank Chinese ship after Chinese ship until their torpedoes and missiles ran out or Chinese forces hunted them down. The other nine or ten USN subsquadrons meanwhile synchronized into what the Cancians and Heginbotham described as an undersea “conveyor belt.” “They hunted, moved back to port, reloaded, then moved forward again and hunted,” the analysts explained.

“Each submarine would sink two large amphibious vessels (and an equal number of decoys and escorts) over the course of a 3.5-day turn,” the Cancians and Heginbotham wrote. In two weeks of intensive fighting, the submarines sank as many as sixty-four Chinese ships, including many of the PLA Navy’s biggest amphibious ships and surface combatants—and even some of the PLAN’s aircraft carriers as well.

The Chinese ships which succeeded in avoiding American submarines weren’t safe, of course. The same CSIS war games found that U.S. Air Force bombers firing stealthy cruise missiles posed an even greater danger to Chinese ships than did U.S. Navy subs.

In the scenario where the Taiwanese and their allies won most decisively, the Chinese amphibious and transport fleet lost 90% of its ships—and was unable to supply the few Chinese battalions the fleet had managed to land on Taiwan. With no sea lines of communica-

tion, Chinese troops on the island quickly ran out of fuel and ammunition.

But even that decisive victory came at a high cost for the Americans. Chinese escorts, aircraft and submarines sank a fifth of the deployed American subs every three or four days throughout the two-week war. In the end, perhaps a dozen or more American submarines lay wrecked at the bottom of the Pacific Ocean, radioactive tombs for as many as 2,000 submariners.

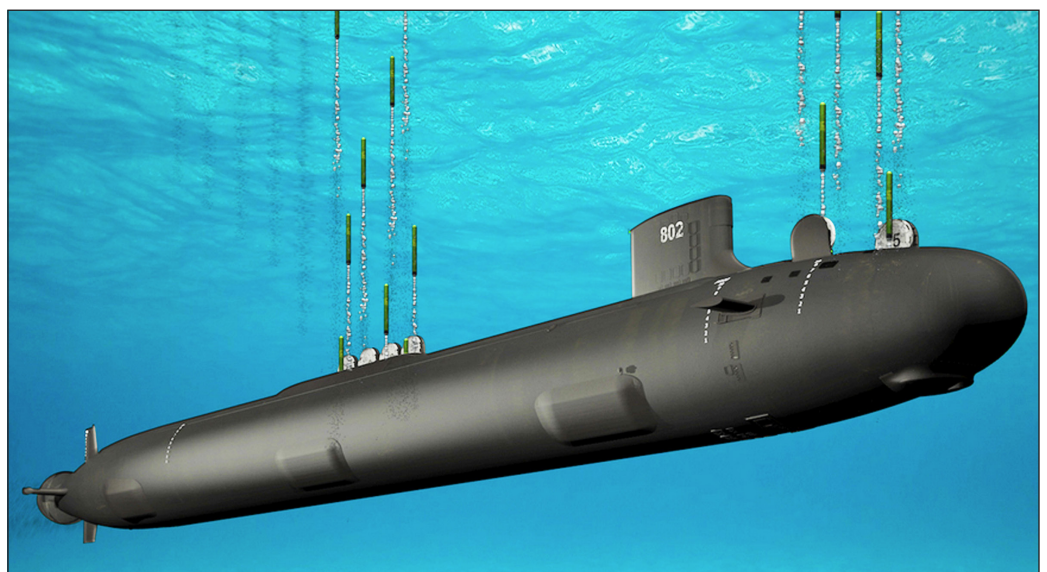
In light of their disproportionate contribution to the Taiwan campaign, submarines absolutely should be a top priority in U.S. defense planning, the Cancians and Heginbotham wrote. “Given the value of submarines, acquiring more is an obvious recommendation.”

That’s easier said than done when a single nuclear attack boat costs around \$3 billion and just a handful of American shipyards can build their components. The Pentagon plans to acquire two attack boats a year for the foreseeable future in order to maintain, and eventually grow, the overall undersea force.

“The U.S. Navy should commit to funding those two per year even if shipbuilding funds get tight,” the CSIS analysts recommended. The Navy could also speed up the sub fleet’s expansion by keeping older boats in service longer.

If the think-tank’s war games are predictive, the U.S. fleet will need every submarine it can muster in order to defeat a Chinese invasion of Taiwan.

This story has been updated to correct some of the submarine attrition calculations. David Axe is a journalist, author and filmmaker based in Columbia, South Carolina. Follow him on Twitter. Check out his website and other work.



Artist's rendering of Virginia-class submarine. (U.S. Navy image.)

The Slap-Slap of Signal Light Shutters

by Bob "Dex" Armstrong

I saw a piece in a popular magazine awhile ago. It said that the United States Coast Guard had ceased to teach Morse Code. With all the super-techno-whiz-bang communication equipment around these days, I guess "dits" and "dahs" are looked upon as primitive as smoke signals.

That's a damned pity because there is no more comforting sound than the rhythmic slap of signal light shutters. Watching a competent signalman operate a signal light, to me, beats watching a concert violinist or an Olympic medal-winning ice skater.

There was something about nighttime steaming, transiting the open expanse of the world's oceans and exchanging seemingly meaningless flashes of light that, in truth, were an exchange of clear, concise messages. The signalman and the gentle click of the signal light shutter louvers....

"Sir, that's the *J.W. Weeks*, DD-701."

"Very well. Ask them if Lt. Al Timberlake is aboard. I went to the Academy with Big Al."

"Aye, sir."

"Yessir, he's aboard. And a Lt. Cmdr. now."

"Very well. Tell them to relay my compliments and tell Big Al that "Short Stack" has passed him during the midwatch."

Little messages exchanged in darkness. Communication between members of America's great saltwater family. Those fingers of light always made me feel that I was a part of a big organization.

Things that were so much a part of our lives have gone out of existence in the intervening years. They tell me, for instance, that torpedomen and quartermasters have now joined gunners mates in the lost ratings of yesteryear.

I know nothing lasts forever and that there's nothing worse to subsequent generations than an old bastard reliving cherished memories of the past. But with the Navy looking to boost its recruiting, it might be beneficial to revisit some of the things that were so meaningful to the bluejackets who manned our ships long ago.

Tradition is a valuable asset. Not that you have to set aside technological advance to honor it. Not at all. But many of the "sailor skills" are now being discounted. Consider this: In battle, when you lose power and your computer-generated mojo is lost; or your batteries run out; or the enemy detonates some kinda hootenanny that scrubs your database.... Will there be anyone who can take a legiti-

mate sextant observation?

What happens if the bad guys find a way to negate satellite positioning? What happens to the poor bastards bobbing around in a lifeboat with a signalman and an operating flashlight?

How can you call a man an American bluejacket who can't tie a bowline or read flags? At some point, you stop being a bluejacket and become a technician. That's a sad fact, but a fact, nonetheless.

The Navy used to sell saltwater adventure. It used to fill its recruiting offices with posters of smiling bluejackets visiting exotic ports. Ships at sea. Scenes extolling the qualities found in an elite service like submarines.

Now you see posters promising monetary incentives, education benefits and pledges of high-level technical training. It is not an "All for the Navy" Navy, anymore. It's a "What's in it for me?" Navy. You can see the effect on the boat-service: interchangeable crews. That's like a shared bride.

Somebody needs to reinitiate the concept of "a lad and his boat." I see nuclear power sailors with the names of a dozen boats embroidered on their vests. How can a lad develop love and loyalty to twelve boats? Simple answer: he can't.

We need to figure out some way of reconnecting men with vessels. We need to develop, to reestablish the relationship between sailors and their ships. We need to shitcan the term, "Get my ticket punched on such-and-such a ship." I find the term "ticket-punched" repulsive. I rode with men who truly loved their ship. She had been ours for better than forty-five years and will continue to be until the day we leave the planet. It's sad that with the "interchangeable parts" commands of today, a boat sailor doesn't engage in the love we couldn't help but develop.

But, as I said earlier, there's nothing worse than a nostalgic old coot who's out of step with the March of Time. An old sonuvabitch whose era has come and gone.

But still, you can't fault a man who loved his service. The men. His wardroom. His boat. An old bastard who can still hear the gentle slap, slap, slap of the bridge signal light shutters.

Keep a zero bubble...

Dex.



New Members

We proudly welcome aboard:

Larry T. Lovett

(Associate; Retired Pharmacist)

Wife: Robin

6632 Beachview Drive
Huntington Beach, CA

92648-2666

cell: 714-856-3508

rx4art@gmail.com

(Uncle lost on *Tullibee*, SS-284.)

Arthur B. Schwartz, Jr.

(HM2-SS E5; Petty Officer 2nd.)

Wife: Reta L.

13812 Reva Street

Cerritos, CA 90703-9062

cell: 562-972-7865

abschwartzjr@gmail.com

Qualified in 1975 on the

USS *George Bancroft* (SSBN-643)

David Detwiler

(Associate Member)

Wife: Mary Ellen

738 Madrid Street

San Francisco, CA 94112-3547

phone: 415-672-2294

dmdetwiler@att.net

Qualified in Life and

now enjoying retirement ;-)

Craig Ignatowitz

(IC2-SS E5; P.O.2c; '86-'92)

Partner: Anna Marie Lesh

6323 Capetown Street

Lakewood, CA 90713-1703

cell: 562-965-7710

Texasiggy@gmail.com

Qualified in 1988 on the

USS *Henry L. Stimson* (SSBN-655)

Charles R. Hinman

(Associate Member)

Wife: Keiko

2015 Lime Street, Apt. #904

Honolulu, Hawaii 96826-3930

cell: 808-561-2869

charles.hinman@gmail.com

Phone number at *Bowfin*

Museum: 808-423-1341

Dr. Darin Steven Detwiler

(E5-MM2SS; served 1986-1994)

Wife: Gennette Zimmer

205 7th Street

Seal Beach, CA 90740-6180

cell: 425-232-5743

ddetwiler680@gmail.com

Qualified in 1989 on the

USS *William H. Bates* (SSN-680)



"Get'cher Chapter News Here — Read All About It! —"

When News Breaks, We Pick Up the Pieces...

Our chapter's own Bill Dillon recently attended a "once in a lifetime" reception as an honored guest at a tribute to Medal of Honor winners hosted by the Reagan Library. It started at 8:30 and lasted all day. Bill had been picked up from his home by Suzanne Rampe-Hensley and escorted for the duration of the event, including a drive back after the ceremony.

Also on hand were Gary Littrell (Vietnam Medal of Honor), Gary Sinese (from *Forest Gump*; founder of a veteran support organization), and another WW2 veteran. Bill hopes to hold a book signing at this same library after his story is published later this year.

Gary Sinese is now arranging for Bill to fly—with his daughter Tania—to New Orleans to record an interview for the WW2 Museum there.



Left: Billy Hall, WWII Medal of Honor recipient; Gary Littrell, Vietnam Medal of Honor recipient; Suzanne Rampe-Hensley; Gary Sinese; Bill Dillon.

Below: Gary Sinese and Bill at the Reagan Library; and Bill with sign before the Medal of Honor ceremony (2/16/2023).





John P. Holland

L.A.-Pasadena Base 50-Year Holland Club

(75-year members noted with *)

Ronald R. Jones	2023
Gerard A. Krudwig.....	2022
Gregory M. Paulson	2022
Michael J. Swanson	2022
Ralph J. Hansen.....	2021
Robert F. Schive, Sr.....	2021
Larry D. Long	2021
G. Judson "Jud" Scott, Jr....	2021
Edward E. Kushins	2020
Bruce Evan Neighbors	2020
David H. Vanderveen.....	2019
Philip J. Jaskoviak.....	2019
Dennis Bott	2018
Robert "Mike" Cailor	2018
Robert Miller.....	2018
John A. Anderson.....	2017
Roger C. Dunham, MD....	2017
Richard McPherson	2017
Harry "Bill" Moak.....	2017
Louis A. Myerson	2017
Elliot Rada	2017
Ronald G. Wagner.....	2017
Dennis J. Walsh.....	2017
Michael Kish.....	2016
Gary Wheaton	2016
Lawrence R. Butler	2015
Samuel T. Higa	2015
Harry P. Ross	2015
Stephen C. Rowe	2015
Charles H. Senior	2015
Larry E. Smith	2015

(concluded next page)



Los Angeles-Pasadena Base 2023 Calendar of Upcoming Events

January 21:	Monthly Meeting - Glory Days Beachside Grill
February 18:	Monthly Meeting - Glory Days Beachside Grill
March 18	Monthly Meeting - Glory Days Beachside Grill
April 15	Monthly Meeting - Location TBA Call for Memorial Day Prep Volunteers
May 20	Field Day at the Memorial Site - 0900 Monthly Meeting - Location TBA Nominating Committee Appointed Call for participants in the Huntington Beach 4th of July Parade
May 27	Tarp Prep at the Memorial Site - 0900
May 29	Memorial Day Service - 1100 Submarine Memorial, West
June 17	Monthly Meeting - Annual "Steakfest?" Location TBA - Nominees for 2024 Base Officers
July 4	116th Annual... Huntington Beach 4th of July Parade
July 15	LeRoy Stone Memorial Picnic Yorba Regional Park, East Anaheim
August 19	Monthly Meeting - Location TBA 2024 Base Officer Candidates Announced
September 16	ANNUAL BUSINESS MEETING Election of Officers - Location TBA
October 21	Monthly Meeting - Location TBA Annual Officer Installation Luncheon
November 18	Monthly Meeting - Location TBA
December 9	Annual Christmas Luncheon at the Los Alamitos Golf Course

Sam Aboulafia	2014
David Palagy.....	2014
Earl Thomas Peratt, Jr.....	2014
David D. Semrau, DDS	2014
Ray Tracy Teare.....	2014
Milton Harry Boudov	2013
Kenneth Jon Dorn.....	2013
M. Mark Hoffer	2013
Michael P. Klein.....	2013
Ronald L. Levenson.....	2013
Edward L. Arnold.....	2012
T. Michael Bircumshaw....	2012
Raymond Cheesebrough .	2012
Bobby O. Mahaffey.....	2012
John V. Mahan.....	2012
Lee Melody	2012
Clyde Matthew Turner.....	2012
George R. Walrath.....	2012
John L. Weisenberger	2012
Edward A. Barwick.....	2011
Joseph W. Koch, Jr.	2011
Stephen D. Diument.....	2009
David Whittlesey.....	2009
Dennis A. Yure.....	2009
Armen Bagdasarian.....	2008
Paul A. Riggs.....	2008
Rex L. Shields.....	2008
John L. Von Ulmen	2008
Francis R. Traser.....	2006
Ronald K. Thompson.....	2004
Robert L. Conboy.....	2003
James Rogers	2003
John E. Savela, Jr.....	2003
Berry S. Yolken	2002
James E. Carter	1999
William F. Long	1999
*Herbert J. "Bo" Bolton....	1998
*Kenneth E. Chunn.....	1998
*Royal Harrison, Jr.....	1995
*Robert Clair Koplin.....	1995
*William J. Dillon.....	1993
*Harold Staggs.....	1992



E-Board Meeting Minutes of February 18, 2023

The Los Angeles-Pasadena Base, United States Submarine Veterans, Inc., Executive Board Meeting was conducted on the morning of Saturday, February 18, 2023.

In attendance:

- Dave Vanderveen, Base Commander
- Darin Detwiler, Base Vice Commander
- Bill Moak, Secretary
- Mike Swanson, Treasurer
- Dennis Bott, Memorial Director
- Herb "Bo" Bolton, Director
- Ken Dorn, Director
- Ray Teare, COB
- Jeff Porteous, *Periscope* Editor
- Harold Staggs, Member
- Ed Banda, Guest

Base Commander Dave Vanderveen called the meeting at Glory Days Beachside Grill in Seal Beach to order at 1002 hours with a quorum present. Minutes of the January meeting were reviewed with no revisions requested. Mike Swanson moved to accept the Minutes; this was seconded by Bill Moak and approved by voice vote.

Treasurer's Financial Report: Mike Swanson

The Treasurer's Report as of February 17, 2023 was read into the Minutes by Base Treasurer Mike Swanson:

Checking	\$20,987.55
Cash On Hand	\$50.00
Uncleared Checks:	\$115.00
Total	\$20,922.55

All vendors have been paid up-to-date.

Income:	\$790.00
Expenses:	\$881.00

Flower/Booster Club Additions:

Ken Dorn	\$200.00
Joseph L. Dow, Jr.	\$15.00
Karen Silverman	\$250.00

Inkind Donations:	\$00.00
--------------------------	----------------

Again, there were no questions or corrections. Dennis Bott moved to accept the Treasurer's Report; this was seconded by Darin Detwiler and approved by voice vote.

Dave now took a little time to welcome Larry Lovett as a new Associate Member. Larry's dad was in the surface Navy, and his uncle had been aboard *Tullibee* when she was lost in WWII to her own torpedo. Our chapter now stands at 102 members.

Memorial Report:

Dennis reported it appears there are still squatters behind the trellis area. He will again report this to Base Security. The trellis area is still to be renovated, and the Scout planning to do the physical labor has yet to schedule it due to other commitments, but will do so prior to Memorial Day. The colors are being handled to Dave's satisfaction, including work on the halyard as needed, and the site looks great in general.

(concluded on next page)

Another internet find sent in by Bill Moak. Thanks as always, Bill!—ed.

An Old Submariner

a poem by Ed Farrelly

He was just an old Submariner,
you see them now and then

Telling stories with his
buddies of when they were
younger men

Creative recollections of when
they were strong and bold

Escapades that they recall,
but all best left untold

More than old Submariners,
they are Brothers of the Fin

Those who've earned
their Dolphins are forever
welcomed in

And when they're piped across
the brow on their eternal leave

All their Brothers everywhere
take time to mutely grieve

It's true the flag at city hall will
not be flown half mast

But many an old Submariner
will be thinking of the past

And reciting with his buddies
as they sing the final hymn

He was just an old Submariner...

But we'll remember him.



PRIDE RUNS DEEP

E-Board Meeting Minutes...

(concluded from previous page)

Dennis has contacted Ann Grennan, and she's pleased and honored to once again sing for the Memorial Day ceremony. However, he's having a tough time contacting others due to email issues, and Darin offered to again work with Dennis to assist him with these tech problems.

Dave indicated the service request for Memorial Day had been submitted to the Navy—which includes a request for covered seating of all areas—for approximately 300 people. Dave has invited Captain O'Brien to be the Opening Speaker, and will confirm with Joe Koch regarding a guest speaker from Point Loma Command.

Dave encouraged Dennis to contact the landscaper used in the past to trim the site's surrounding hedges, work that will be billed through the National Memorial Foundation.

Jeff explained the difficulty he's encountering in communications with the contractor for the new plaques (re: cost, proofs, timing, etc.). He asked Dave to use his influence to determine the disposition of the project.

Darin indicated the Memorandum of Understanding is now with the Lion's Club, awaiting approval signature from an officer authorized to do so.

Ken Dorn's Fundraising Offer:

Ken Dorn was given the floor to converse about a large number of submarine-related items he possesses and plans to donate to the base for retention. They include rare or valuable books, pictures, and other memorabilia he hopes will eventually generate fundraising for our chapter.

Upcoming Background Check Renewals:

As gate pass cards acquired by members last year are good for only a year, all base members will be required to resubmit applications for security approval. Dave indicated email containing details and necessary forms will be forthcoming.

Western Regional Roundup and National Convention:

L.A.-Pasadena Base has submitted a donation for sponsorship/placement in the Western Regional Roundup program, and is noted now on its website. Discussion regarding doing the same for the National Convention was tabled to a date closer to the event.

Good of the Order:

Darin has compiled a complete inventory of our items held in public storage, and informed the E-Board that our request for \$3,000 in support of Memorial storage cost reimbursement has been declined. The reason given was National's focusing on expenses related to the move of their office from Washington to Groton as currently taking priority over any base requests.

Darin continues to seek other possible locations to conduct our meetings. A check with the Reagan Library estimated our cost at \$4K simply for a room and no particulars (!).

Dave indicated that while we might yet be given space for meetings on the base, nothing has yet been determined. If nothing else, we hope the base may provide a storage area to offset our current monthly storage expenditure.

Mike indicated the checks for donations to the Holland Club, Boat Sponsorship and Western Regional Roundup have all cleared.

Harold introduced his friend Ed Banta, a prospective new member who served aboard the second USS *Wahoo* (SS-565).

There being no further business, Bill Moak motioned the meeting be adjourned; Ray Teare seconded and it was passed by all present, ending the meeting at 1048 hours.

Respectfully submitted,

Bill Moak

Secretary, L.A.-Pasadena Base, USSVI

2023 United States Submarine Veterans Calendar

PERIL IN THE DEPTHS

United States Submarine Incidents Since 2000



Mishaps at sea can take a deadly toll.



It is our purpose to perpetuate the memory of our shipmates who gave their lives in the pursuit of their duties while serving their country. That their dedication, deeds and supreme sacrifice be a constant source of motivation toward greater accomplishments. Pledge loyalty and patriotism to the United States of America and its Constitution.

At sea, an adversary's combatant ships are not the submarine's only enemy. Hidden seamounts, undetected friendlies, and all manner of potential mishaps and accidents not only cause crippling and expensive damage, but can easily turn deadly—as such representing every submarine skipper's ongoing and unpredictable nightmare.

This year's USSVI submarine calendar explores Peril in the Depths: a series of at-sea collisions and other accidents proving that bad decisions—or mere bad luck—can happen to the best of them, even the most capable and highly-trained sailors in the world. From all corners of the globe, these accounts show what happens when submariners have a really bad day—skirmishes with fate involving everything from the simple trading of paint between passing boats to catastrophic submerged collisions causing tragic loss of life.

Join us here month by month as we present these fascinating accounts of submarine accidents you just can't seem to look away from, much as you might like to.

Sound the Collision Alarm and standby for some jolts!

The all-new 2023 USSVI Submarine Calendar

Order Now!

Individual calendars are \$11.95+3.50 shipping. Order yours today by credit card at ussvinationalstorekeeper.com or by sending your check or money order made payable to USSVI to:

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USS Hartford and USS New Orleans Collide

The USS *Hartford* (SSN 768) and the *San Antonio*-class amphibious transport dock USS *New Orleans* (LPD-18) collided on March 20, 2009. The incident occurred in the Strait of Hormuz, between Iran, the United Arab Emirates, and Musandam, an enclave of Oman. A Navy investigation into the collision found that *Hartford* was solely to blame for the accident. According to the investigation, the accident was caused by poor leadership on the submarine and a failure to adequately prepare for and conduct the crossing of the Hormuz Strait by the crew. As a result, the captain and several other officers and sailors were removed or disciplined. The collision inflicted minor injuries on fifteen sailors aboard *Hartford* and ruptured a fuel tank on *New*

Orleans, spilling 25,000 gallons of diesel fuel into the Strait. Both vessels continued under their own power. *Hartford* was submerged and at periscope depth at the time of the collision, and is believed to have rolled about eighty-five degrees and sustained extensive damage to her sail, periscope, and port bow plane. There was no damage to the nuclear reactor. On April 19, *Hartford* began a surface transit back to the U.S. for further repair, arriving two months later. The repairs included installation of a hull patch and a bridge access trunk, along with a portside retractable bow plane and the entire sail. The final cost of repairs was \$120 million by the time *Hartford* returned to duty in February 2011.

August 2023

(Five submarines and 251 men lost)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

July							August							September							October							November							December																																																																		
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S																																																												
29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6



"Attack!"
—Diversion "Mines" Mission
CGO - USS *Yellow* (SS-266)

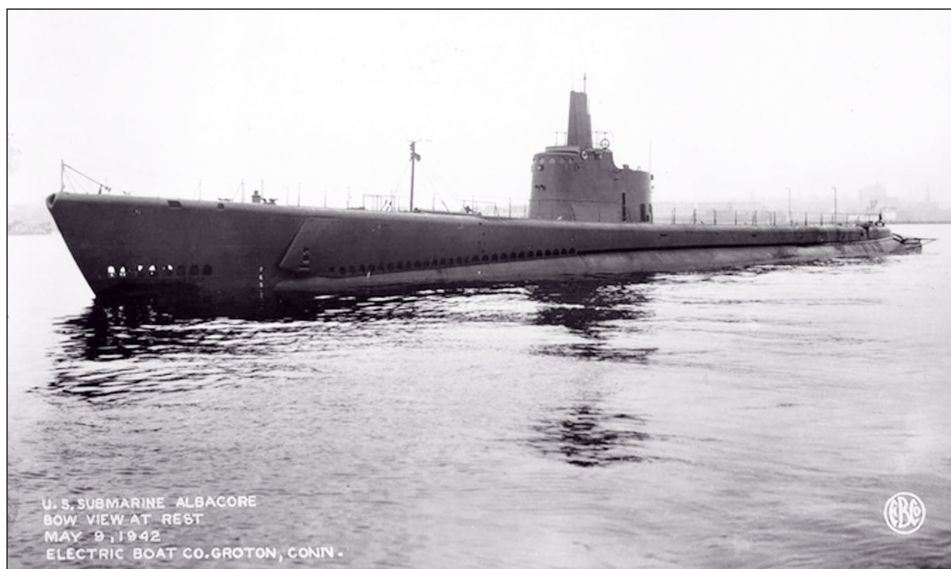
Proceeds to benefit USSVI operations and projects.

Wreck Site Identified as World War II U.S. Submarine USS *Albacore*

WASHINGTON - Naval History and Heritage Command (NHHC) confirmed the identity of a wreck off the coast of Hokkaido, Japan, as that of USS *Albacore* (SS-218).

(Reproduced from America's Navy website - published February 16, 2023.)

by Petty Officer 1st Class Abigayle Lutz, Naval History and Heritage Command



dish and mast, a row of vent holes along the top of the superstructure, and the absence of steel plates along the upper edge of the fairwater allowed UAB to confirm the wreck site finding as *Albacore*.

The wreck of *Albacore* is a U.S. sunken military craft protected by U.S. law and under the jurisdiction of NHHC. While non-intrusive activities, such as remote sensing documentation, on U.S. Navy sunken military craft is allowed, any intrusive or potentially intrusive activities must be coordinated with NHHC and if appropriate, authorized through a relevant permitting program. Most importantly, the wreck represents the final resting place of sailors who gave

NHHC's Underwater Archaeology Branch (UAB) used information and imagery provided by Dr. Tamaki Ura, from the University of Tokyo, to confirm the identity of USS *Albacore*, which was lost at sea Nov. 7, 1944.

"As the final resting place for sailors who gave their life in defense of our nation, we sincerely thank and congratulate Dr. Ura and his team for their efforts in locating the wreck of *Albacore*," said NHHC Director Samuel J. Cox, U.S. Navy rear admiral (retired). "It is through their hard work and continued collaboration that we could confirm *Albacore*'s identity after being lost at sea for over seventy years."

Japanese records originating from the Japan Center for Asian Historical Records (JACAR) covering the loss of an American submarine on Nov. 7, 1944, guided Dr. Ura's missions. The location mentioned in the records matched a separate ongoing effort by UAB volunteers to establish the location of the shipwreck.

Dr. Ura's team collected data using a Remotely Operated Vehicle to confirm the historical data. Strong currents, marine growth, and poor visibility on site made it challenging to fully document the wreck or obtain comprehensive images. However, several key features of a late-1944 *Gato*-class submarine were identified in the video.

Indications of documented modifications made to *Albacore* prior to her final patrol, such as the presence of an SJ radar

their lives in defense of the nation and should be respected by all parties as a war grave.

Albacore was constructed by the Electric Boat Company in Groton, CT and commissioned on June 1, 1942. Before being lost in 1944, she conducted eleven war patrols and is credited with ten confirmed enemy vessel sinkings, with possibly another three not yet confirmed. *Albacore* earned nine battle stars and four Presidential Unit Citations during her career. Six of the ten enemy sinkings were enemy combatant ships, ranking her as one of the most successful submarines against enemy combatants during World War II.

For more information on *Albacore*, please visit <https://www.history.navy.mil/research/histories/ship-histories/danfs/a/Albacore-ss-218-ii.html>

NHHC, located at the Washington Navy Yard, is responsible for preserving, analyzing, and disseminating U.S. naval history and heritage. It provides the knowledge foundation for the Navy by maintaining historically relevant resources and products that reflect the Navy's unique and enduring contributions through our nation's history, and supports the fleet by assisting with and delivering professional research, analysis, and interpretive services. NHHC comprises many activities, including the Navy Department Library, the Navy Operational Archives, the Navy art and artifact collections, underwater archeology, Navy histories, ten museums, the USS *Constitution* repair facility, and the historic ship *Nautilus*.



USS Ohio (SSGN-726) gets underway alongside submarine tender USS Emory S. Land in Malaysia in 2015. (U.S. Navy/MC2 George Bell photo.)

*In memory
of the
fifty-two
submarines
lost in
World War II*

SEALION
S-36
S-26
SHARK I
PERCH
S-27
GRUNION
S-39
ARGONAUT
AMBERJACK
GRAMPUS
TRITON
PICKEREL
GRENADIER
RUNNER
R-12
GRAYLING
POMPANO
CISCO
S-44
DORADO
WAHOO

CORVINA
SCULPIN
CAPELIN
SCORPION
GRAYBACK
TROUT
TULLIBEE
GUDGEON
HERRING
GOLET
S-28
ROBALO
FLIER
HARDER
SEAWOLF
DARTER
SHARK II
TANG
ESCOLAR
ALBACORE
GROWLER

SCAMP
SWORDFISH
BARBEL
KETE
TRIGGER
SNOOK
LAGARTO
BONEFISH
BULLHEAD

