

# HMCS Cobalt

Cobalt's Namesake Goes to War

Charles Dumaresq

### Copyright Charles Dumaresq, 2024

This document may be distributed or shared for personal use free of charge without the author's permission. Please credit the author when distributing or citing this document.

Please do not reproduce materials in this document, in whole or in part, for commercial purposes, without the written permission of the author. While I am happy to make this free for personal use, this book represents hundreds of hours of research and writing. If you want to use any of this content for commercial purposes, please give me credit.

### About the Cover

The cover art was created by digital artist Sage Minard based on black and white photos of the gunshield art on HMCS Cobalt and versions of the artwork in the collections of the Cobalt Mining Museum in Cobalt, Ontario, and the Crow's Nest Officer's Club in St. John's, Newfoundland and Labrador. Many thanks to Sage for bringing this wonderful example of Second World War gunshield art to life!

The blue and green shapes at the bottom of the cover page represent a camouflage scheme applied to the Cobalt and many other Canadian ships on convoy escort duty during the Second World War, known as Western Approaches. The colours used are Western Approaches Blue and Western Approaches Green, based on colours from Sovereign Hobbies, a UK-based company that has done extensive research to produce accurate paints for model makers.

The colour used for the title on the cover page and in headings throughout the book is dark blue grey referred to as B15, another colour commonly used in camouflage schemes during the Second World War, again based on colours from Sovereign Hobbies. The dark grey colour used for text throughout the book is G5, also based on colours from Sovereign Hobbies. Both of these colours may have been used in HMCS Cobalt's late war camouflage scheme, although the author has not been able to confirm this.

#### **Acknowledging Sources**

The author has tried to accurately credit sources for information in this book to the extent possible. However, this book is the outcome of a project that stretches back over 15 years, to the author's first version of a history of HMCS Cobalt written in 2006. The book also reflects a lifetime's accumulation of knowledge about Canadian military history, and an interest in the history of mining in Cobalt, Ontario that extends back over 30 years. Thus, the author acknowledges that not all sources have been properly credited.

### **Contact the Author**

If you have additional information about HMCS Cobalt or her crew, or if you have found any errors or inaccuracies in this book, please contact the author at **HMCSCobalt@gmail.com** 

### Foreword

Cobalt – a small mining town in northern Ontario that most Canadians today have never heard of. It's hard to believe that the Royal Canadian Navy once named a warship after this tiny town whose population now stands at less than 1,000 people. Then again, it would perhaps be even more incredulous to most Canadians that the hockey team from this tiny town, the Cobalt Silver Kings, was the first team that the fabled Montreal Canadiens ever played. Just as unbelievable – that this town was known around the world, was the catalyst for riots on Wall Street, hosted opera houses and a stock exchange, and made a few people very, very rich while others saw their dreams shattered in the back-breaking work in the mines. Hard to believe an era when Toronto was the place you went ... to catch the train to Cobalt!

Silver was discovered in Cobalt in 1903 during the construction of a railway. A trickle of prospectors became a rush, and by 1906, Cobalt and its rich silver deposits were making headlines around the world. The town grew out of nothing and experienced explosive if haphazard growth. Through fires, epidemics, labour strife, and complete disregard for health, safety, and the environment, the mines produced their riches and generated the knowledge, experience, and money that drove Canada to become a mining superpower. Cobalt is considered the birthplace of hardrock mining in Canada.

Of course, the boom didn't last, and Cobalt fell out of the headlines. By the outbreak of the Second World War, the town was much more established, although smaller than it had once been. But the stories of Cobalt had not yet been forgotten and a few mines were still running, producing both silver and soon cobalt to help in the war effort. Cobalt was still a mining town, and it was still on the map. It was not the town that it is today, so it was not so unbelievable then that when the Royal Canadian Navy built a class of convoy escort ships and named them after towns across Canada, one of the first ships built was named after Cobalt: His Majesty's Canadian Ship (HMCS) Cobalt.

I am not a historian, I am a geologist. I first went to Cobalt in 1986 when I followed in the footsteps of many others and went to Cobalt to learn my trade. The geology department at Carleton University ran a field school in Cobalt for many years. I was one in a long line of students to go to that camp and learn about the geology and a bit of the history of Cobalt, to sit around the fire at night and sing The Cobalt Song as the train of the Ontario Northland Railway whistled in the distance and the call of loons echoed across Gillies Lake.

A few years later, I was back in Cobalt to study the environmental legacy of decades of mining as part of my master's degree. I completed that work and have gone on to build a career in environmental work related to mining. But there was more to Cobalt than geology, mine tailings, and water pollution. The stories of the silver boom in Cobalt captivated me. I studied the environmental impacts of the mining, but I learned more and more about the history of Cobalt. It drew me in, and my graduate thesis included an appendix on the history of Cobalt. I had been bitten by a bug – a passion for Cobalt – that hasn't left me.

Growing up, I was surrounded by an interest in history, especially Canadian military history. My father served in the Royal Canadian Navy in the early 1950s and he has a passion for naval history that continues to burn. That rubbed off, and by my teens, I was well-versed in the story of Canada's role in the Second

World War. Regular trips to the Canadian War Museum in Ottawa are fondly remembered and fed that passion.

In Cobalt, my passions converge. The science, the history, and, with HMCS Cobalt, military history too. In 2006, I launched a website about Cobalt to tell some of the stories of Cobalt, both the history and the environmental aspects. My website included a page about HMCS Cobalt. Unexpectedly, that led to contacts with family members of men who had served aboard the Cobalt, and I learned more about the ship and her crew.

This book started as an update to my webpage about HMCS Cobalt, but the material I had outgrew the website. Over the years, I have pulled together a large collection of photos of the Cobalt and her crew, many from the collection of the Cobalt Mining Museum, and from other sources as well, including family of crew members. I also searched the archives of the Department of National Defence and Library and Archives Canada. Newspaper articles of the time, particularly from local newspapers in North Bay and New Liskeard, added another important dimension to the story, about the relationship between the town and the ship and her crew. I also went through wartime-era municipal records from the Town of Cobalt and reached out to the Cobalt Historical Society and the two museums in town – the Cobalt Mining Museum and the Bunker, a small military museum.

The goal of this book is to tell the story of HMCS Cobalt and her crew and share as many photos as possible of the ship and her crew during the Second World War. However, telling the story of the Cobalt in isolation from the broader story of the Battle of the Atlantic and Canada's role in that epic battle would make the story of HMCS Cobalt less meaningful for readers not familiar with that story. As a result, I have described the historical context to fill in those blanks: the leadup to the Second World War, the Battle of the Atlantic, and the introduction of Flower class corvettes like HMCS Cobalt to escort convoys of merchant ships across the Atlantic Ocean, protecting them from attacks by German submarines.

In telling the story, I have tried as much as possible to use photos of HMCS Cobalt. However, this would leave blanks in a story that photos are so important to help tell. I have used photos of other Canadian corvettes<sup>1</sup> and HMCS Sackville, a corvette that is now a museum ship in Halifax, Nova Scotia, to help fill in those blanks where photos of the Cobalt have not been found.

The book is divided into four parts:

- The Short Story, which provides a summary of the story of HMCS Cobalt and her role in the Second World War.
- The Full Story, which provides a much more detailed telling of the story of HMCS Cobalt, including specific actions she was involved in, as well as the broader context of the Battle of the Atlantic and the role of Flower class corvettes.
- Photos Galleries, providing additional photos of HMCS Cobalt and her crew.

<sup>&</sup>lt;sup>1</sup> Many of the photos are from an excellent website called For Posterity's Sake (www.forposterityssake.ca), a website "dedicated to the men and women of the Royal Canadian Navy and the ships they lived and served in." If you are interested in Canadian naval history, I cannot recommend this website enough. The collection on the website continues to expand, so if you have information about any Canadian ships and the sailors that served aboard them, I encourage you to share photos and stories with the website.

- Appendices that provide extra details about HMCS Cobalt, including:
  - A list of the more than 100 convoys that HMCS Cobalt helped to escort, as well as other important milestones in her service.
  - Technical information about HMCS Cobalt, including the weapons and sensors that she carried as well as her various upgrades throughout the war.
  - $\circ~$  A list of officers that served aboard HMCS Cobalt.
  - Newspaper articles related to HMCS Cobalt.

This book is dedicated to the men who served aboard HMCS Cobalt, playing their own small role in defeating Nazi Germany. Theirs is an important story to keep alive, lest they fade from memory.

The book is also dedicated to the people of Cobalt and the neighbouring Township of Coleman. An area so rich in stories that Cobalt has been named Ontario's Most Historic Town. Yet just like HMCS Cobalt, the stories of the silver rush in Cobalt – the good, the bad, and the ugly – also risk fading from memory. The link between this little ship and her crew and this rugged northern Ontario mining town should not be forgotten.

Charles Dumaresq

January 2024 Lest we Forget

# Contents

The Short Story	1
-----------------	---

The	The Full Story				
1	Setting the Scene	7			
2	The Battle of the Atlantic	10			
3	Enter the Corvette	25			
4	A Corvette named Cobalt	29			
5	Corvette Crews	38			
6	Life Aboard the Corvettes	46			
7	A Top Secret Start	72			
8	Cobalt on Convoy Escort Duty	74			
9	Cobalt to the Rescue	82			
10	Man Overboard!	91			
11	Friendly Fire?	94			
12	HMCS Cobalt – the Cobalt Connection	97			
13	War's End	126			
Bib	bliography	133			

Photo Galleries	135
Crew Gallery	136
HMCS Cobalt Gallery	154
Wartime Colour Photos	166

Extra Detai	ils: Appendices	.171
Appendix	1: Canada's Naval Memorial - HMCS Sackville	.172
Appendix	2: Convoys Escorted by HMCS Cobalt and Other Significant	
Milestones	in the Ship's History	.184
Appendix	3: Battle of the Atlantic Monthly Summary of Ship Sinking and U-boat Losses	.189
Appendix	4: More Detailed Information about HMCS Cobalt	.192
A4.1	Size	.192
A4.2	Propulsion, Speed, and Range	.192
A4.3	Crew and Accommodations	.193

A4.4	Camouflage	193	
A4.5	Radar	203	
A4.6	ASDIC	210	
A4.7	Armament	215	
A4.8	Minesweeping Gear	237	
A4.9	Cables and CATS – Protecting the Corvettes	240	
A4.10	Communications	245	
A4.11	Boats, Life Rafts, and Life Vests	256	
A4.12	Summary of Improvements to HMCS Cobalt: January 1941 to May 1945		
A4.13	Flags and Battle Honours		
A4.14	Gunshield Art		
A4.15	Training and Workups	278	
Appendix 5: Officers that Served Aboard HMCS Cobalt			
Appendix 6: Newspaper Articles Related to HMCS Cobalt			



# **The Short Story**

In early 1939, war with Germany was increasingly seen as inevitable. While many still hoped for peace, others were preparing for the worst.

Great Britain has long been dependent on trade across the sea to obtain resources and goods. In the First World War, Germany had threatened to starve Britain into defeat by strangling the trade upon which Britain depended. Food, lumber, minerals, fuel, manufactured goods, and most importantly in wartime, weapons, and soldiers – all arrived in Britain from other countries, including Canada, by ship. Sink the ships carrying those supplies, and Britain's people, factories, and soldiers would starve.

During the First World War, the United Kingdom's Royal Navy was the most powerful in the world and Germany knew that it could not use surface ships to starve Britain. Instead, Germany unleashed a still relatively new weapon – submarines. German submarines, known as Unterseeboot, or U-boats, prowled the waters off Britain in search of targets. In the end, the German efforts to starve Britain by the U-boat campaign failed, but the U-boats sank many ships.

One of the keys to beating the U-boats in the First World War was the introduction of convoys. Before this, merchant ships had crossed the Atlantic Ocean alone, and usually with no warship to protect them. Unless they were very fast, lone merchant ships were easy prey for the U-boats. By grouping merchant ships in convoys and protecting them with an escort of warships equipped to attack submarines, the odds of surviving a U-boat attack improved. After convoys were introduced, more merchant ships were able to arrive safely in Britain.

Unfortunately, as war loomed again in 1939, the Royal Navy did not have enough ships to escort convoys in the event of war - cuts to defense spending had left the navy unprepared to fight the U-boats. A stop-gap measure was needed to bring escort ships into service quickly since there was not enough time to design and build purpose-built naval escort ships in sufficient numbers.

A class of ships called corvettes was built to fill this gap. Corvettes were based on a whaling ship design and could be built quickly and cheaply in civilian shipyards. The first group of corvettes was ordered by the Royal Navy in July 1939, just weeks before the outbreak of war. In January 1940, the first order was placed with Canadian shipyards.

With the outbreak of war in September 1939, the tiny pre-war Royal Canadian Navy (RCN) began a very rapid expansion. At the beginning of the war, the RCN was even less prepared than the Royal Navy, with just 10 ships and 3 smaller vessels. From that tiny start, the RCN grew to become one of the largest navies in the world by the end of the war, with 278 ships, 150 smaller vessels, and over 95,000 men and women in uniform. That growth, particularly in the early years of the war, was built on the backs of RCN corvettes and the men from across Canada who served on board these rugged little ships in the fight against the U-boats, known as the Battle of the Atlantic.

So, what does all of this have to do with Cobalt, a mining town in northern Ontario far from the Atlantic Ocean?

Canadian corvettes were named after small towns and cities across Canada. This was done to help involve residents of those towns in the war effort, giving them a sense of connection with the ships and their crews. Cobalt was to be one of the first towns in Canada so honoured.

His Majesty's Canadian Ship (HMCS) Cobalt was one of the first corvettes built for the RCN. She was built in Port Arthur, Ontario, and was commissioned into the RCN in November 1940. She immediately sailed to Halifax and in January 1941, she was ready for active service.

HMCS Cobalt was armed with a 4-inch gun that could be used to attack submarines on the surface or to defend herself if Cobalt was attacked by surface ships. For protection from attack from aircraft, she was armed with an anti-aircraft gun and smaller machine guns.

The Cobalt was also equipped with two key tools to protect convoys and do battle with U-boats. The first was sonar, known in the Royal Navy and the RCN as ASDIC, which was used to detect submarines under water. The second was a weapon known as a depth charge.

Depth charges were barrels filled with explosives and fitted with a pressure-sensitive fuse set to detonate at a specific depth below the surface. Depth charges were rolled off the stern of the ship using rails or launched over the side of the ship. They would explode behind the ship, and if they exploded close enough to a U-boat, they would sink the U-boat or cause serious damage. Originally, the Cobalt had two rails for launching depth charges off the stern and a pair of launchers to fire depth charges to the side of the ship. Later, a second pair of launchers was added, enlarging the coverage when a "pattern" of depth charges was fired and increasing the chance of a successful attack.

Later in the war, two new tools were added, increasing Cobalt's effectiveness. One was radar, which helped to detect U-boats or other ships on the surface. The other was a new weapon, known as the hedgehog, which was a type of mortar that fired bombs in front of the ship. These bombs would only explode if they hit a submarine, but a single hit could be lethal.

Corvettes like HMCS Cobalt were not large and they were not glamorous, but they were vital. Just over 200 feet long, and with a crew of up to 85 men, corvettes were not built for comfort. They were originally intended for offshore escort work, not for the open ocean, and in the heavy seas of the North Atlantic the ships and their crews could be thrown around like corks.

This made for miserable conditions for the corvette crews. The constant rolling of the ships left many of their crew seasick. To make matters worse, the crew spent most of their time at sea wet. Men at action stations on deck were routinely drenched with spray, and the crew on the open bridge were completely exposed to the weather. Those below deck, either off-duty or at workstations, got little relief. Conditions below deck were cramped, and water regularly entered as a result of spray coming in through open hatches. Modifications later in the war helped to reduce the amount of water and thus the misery of the crew, but as the armament and other equipment increased, the crews got bigger, making for even more cramped conditions. Only the engine room offered any relief from the cold, wet conditions, but those serving in the engine room were often the least likely to survive if their ship was torpedoed.

Despite the discomfort, the cold, the wet, and the dangers, or perhaps because of those things, there was a camaraderie amongst the crew of the Cobalt, as is common in most military units. On active duty, the crew typically worked in 4-hour shifts, followed by 4 hours off to eat, sleep, or relax by playing cards, writing letters home, or reading. Time in port brought the opportunity for some shore leave and a chance to relax a bit from the stresses of convoy duty. From the daily rum ration to ship's mascots, the crews found other ways too, to relax and escape the stress.

The crews of corvettes like HMCS Cobalt were drawn from across Canada, but they often personalized their ships to strengthen the ties with the towns and cities for which they were named. On many corvettes, the metal shield around the 4-inch gun was painted with artwork depicting something about the ship and the town for which it was named. The gunshield of the Cobalt featured an angry-looking bumblebee wearing a miner's helmet. The bumblebee was brandishing a stick of dynamic and the prospector's hammer with one pair of arms and smashing a swastika with a small jackhammer with the other set of arms. Thus, Cobalt's mining heritage was put to sea in the war against the U-boats.

The career of HMCS Cobalt got off to an unusual and secret beginning. She found herself involved in trials of a type of camouflage to make it harder to see ships at night.

In wartime, ships at sea traveled with their lights out to make it more difficult for submarines or surface ships to see them at night. However, the night sky is rarely completely black, and a ship would appear as a dark silhouette against the night sky. HMCS Cobalt was used in the initial trials of a type of lighting called "diffused-lighting camouflage" which would illuminate ships slightly, making them harder to see against the night sky. For this trial, in January 1941, the Cobalt was fitted with lights mounted on temporary supports on one side of the ship's hull. The brightness of the lights was controlled manually, and observers on another ship communicated by radio with the crew of the Cobalt so that the intensity of the light could be adjusted to make the Cobalt as difficult to see as possible.

These first trials with the Cobalt were successful enough that the development continued, although the Cobalt was no longer involved.

The rest of Cobalt's wartime service was typical of Canadian corvettes fighting in the Battle of the Atlantic. In May 1941, she joined the Newfoundland Escort Force based in St. John's and served for six months escorting convoys between St. John's and Iceland. South of Iceland, the escort was taken over by ships based out of the United Kingdom.

In May 1942, the Cobalt began serving as part of the Western Local Escort Force. This Force was established after the United States entered the war in December 1941, during a period of intense U-boat activity along the east coast of North America. HMCS Cobalt and other ships of the Force, primarily Canadian, escorted convoys between New York, Boston, and Halifax, and as far south as the Caribbean. They escorted convoys as far east as a point south of Newfoundland, where other escort ships took over.

The Cobalt remained part of the Western Local Escort Force for the remainder of the war, and while she was not credited with sinking any U-boats, she did do valuable service.

In August 1943, HMCS Cobalt came to the aid of a tanker loaded with gasoline that was burning as a result of a collision with another ship. Gasoline was vital to the war effort, and under the command of Acting Lieutenant-Commander Ronald Judges, the Cobalt went into action to save the tanker and its cargo. The Cobalt drew alongside the burning tanker, and a group of volunteer crew members boarded the tanker. Facing intense heat, the boarding party succeeded in putting out the fire and saving much of the tanker's precious cargo.

Sadly, they were too late to save the crew. Only five men from the tanker's crew survived, having jumped into the water moments after the collision. In total, 99 men on the two ships involved in the collision were killed – a tragic night.

For this action in salvaging the ship, HMCS Cobalt's commanding officer, Ronald Judges, was mentioned in dispatches. Mate Alfred Bett, who led the boarding party, was awarded the George Medal. The two other members of the boarding party who bravely fought the flames, Engine Room Artificer Fourth Class James Werely, and Signalman Michael Fitzgerald, were awarded the British Empire Medal.

HMCS Cobalt survived the Second World War. Like most corvettes, its service with the RCN ended just a few weeks after the war in Europe was over. She was later sold and like several other corvettes, she converted to a whaling ship - appropriate considering the origins of the corvette design. From 1953 to 1961 she was called the Johanna W. Vinke. In 1961, her boiler exploded, and she could not be repaired. She was scraped in South Africa in 1963.

All that remains of HMCS Cobalt is her brass bell, which is now part of the collection of The Bunker, a military museum in Cobalt. In addition, there are two versions of her gunshield artwork, one in the collection of the Cobalt Mining Museum, and the other at the Crow's Nest Officer's Club in St. John's, Newfoundland and Labrador.



# **The Full Story**

### 1 Setting the Scene

In early 1939, war clouds were looming in Europe. Germany, led by Adolf Hitler's National Socialist German Workers Party, better known as the Nazi Party, was becoming increasingly belligerent and bold in its territorial claims. While many still hoped for peace, others saw war as inevitable and were preparing for the worst.

Great Britain, as an island with limited natural resources, has long been a trading nation, dependent on trade across the sea to obtain resources and goods. In the First World War, Germany had tried to starve Britain into defeat by cutting off the maritime lifelines upon which Britain depended. Food, lumber, minerals, fuel, manufactured goods, and most importantly in wartime, weapons, and soldiers – all arrived in Britain from other countries, including Canada, by sea. Sink the ships carrying those supplies, and Britain's people, factories, and soldiers would starve.

In the First World War, Britain's Royal Navy was the most powerful in the world, and British ships imposed a blockade on trade with Germany that cut supplies of food, fuel, raw materials, manufactured goods, and other goods essential to the German war effort. Despite a naval arms race in the years before the war, the German navy was not strong enough to break the British blockade – the Royal Navy was too strong. So, while the British and German surface fleets played a dangerous game of cat and mouse for most of the war, the German navy unleashed a relatively new weapon to blockade the British Isles and starve the Allies into surrender – submarines. German submarines, known as Unterseeboot, or U-boats, prowled the waters off Britain in search of targets. The U-boats sank many ships and were a major threat. By 1917, they had sunk 30% of the world's merchant ships. However, the U-boats did not prevail, and Germany surrendered to the Allies on November 11, 1918, bringing the war to an end.<sup>2</sup>

After the First World War, the peace treaty signed in 1919 imposed many conditions on Germany by the victorious Allies, including Canada. One of these conditions was that Germany was forbidden to build or operate any U-boats. However, after Hitler took power in 1933, the development of new and improved U-boats began. Even before that, Germany had begun secretly training sailors to serve aboard U-boats. By 1939, the growing German U-boat fleet was no longer a secret. The Royal Navy knew that if war came, Britain would be faced with another U-boat campaign, and again faced with the threat of starvation.<sup>3</sup>

One of the keys to defeating the U-boats in the First World War was the introduction of convoys, in which groups of merchant ships traveled together, escorted by warships. Before this, merchant ships had crossed the Atlantic alone, and usually with no warship to protect them. Unless they were very fast, lone merchant ships were easy prey for the U-boats, even if the merchant ships were armed. By grouping merchant ships in convoys and protecting them with an escort of warships equipped to attack submarines, the odds of making it safely across the Atlantic improved. After convoys were introduced, more merchant ships were able to arrive safely in Britain.<sup>4</sup>

<sup>&</sup>lt;sup>2</sup> https://www.theworldwar.org/learn/about-wwi/unrestricted-u-boat-warfare

<sup>&</sup>lt;sup>3</sup> https://uboat.net/men/training/preparations.htm

<sup>&</sup>lt;sup>4</sup> https://www.iwm.org.uk/history/voices-of-the-first-world-war-the-submarine-war

*Convoy forming in Bedford Basin in Halifax in 1941. (Credit: https://www.facebook.com/RoyalCanadianNavy/photos/a.389503118078096/842490629446007/)* 



Convoy at sea, seen from an escorting aircraft. (Credit: Library and Archives Canada Photo, MIKAN No. 5671742)



HMCS Cobalt – Cobalt's Namesake Goes to War

Unfortunately, in 1939 the Royal Navy did not have enough ships to escort convoys in the event of war. Canada, Britain's ally across the Atlantic, was in almost no position to help. The Royal Navy was still the largest and most powerful in the world. However, the more limited funds available to the Royal Navy in the period since the end of the First World War had been committed mainly to larger ships – particularly destroyers which could also be used as escorts, and to larger cruisers un-equipped for anti-submarine warfare. At the outbreak of war, the Royal Navy had 66 cruisers compared to just 45 escorts and patrol ships. These escorts were capable of anti-submarine warfare, but most of these ships lacked the fuel capacity needed for long-range convoy escort duty and were restricted to operations close to Great Britain.<sup>5</sup> In comparison, Germany had 57 U-boats, with many more under construction, including newer U-boats that were better equipped and able to attack anywhere in the North Atlantic.<sup>6</sup>

Simply put, in 1939 the Royal Navy was unprepared for the battle against the U-boats that was about to begin. More ships were needed to be able to be able to escort convoys across the Atlantic if war broke out.

On September 1, 1939, Germany invaded Poland. On September 3, Great Britain declared war on Germany, and Canada followed on September 10. The war, and the battle to control the Atlantic Ocean, had begun.

<sup>&</sup>lt;sup>5</sup> https://www.naval-history.net/WW2CampaignRoyalNavy.htm

<sup>&</sup>lt;sup>6</sup> https://uboat.net/fates/losses/

HMCS Cobalt – Cobalt's Namesake Goes to War

### 2 The Battle of the Atlantic

The Battle of the Atlantic was the battle for control of the Atlantic Ocean during the Second World War. It involved the German navy and air force as well as some submarines of the Italian navy, pitted against the Allied navies and air forces of the United Kingdom, Canada, and the United States, forces from countries in occupied Europe, particularly France, Poland, the Netherlands, Belgium, and Norway, as well as other allies such as Brazil and South Africa.

In trying to seize control of the Atlantic, each side aimed to restrict the flow of supplies to the other. As in the First World War, the Allies imposed a blockade on Germany, and the Germans used both surface ships and submarines to try and cut off the flow of materials to Britain.

The Battle of the Atlantic was uniquely massive in scale. Often, the length of battles is measured in days or weeks, sometimes even just hours, and battles are fought over areas of tens or hundreds of square kilometers. Not so the Battle of the Atlantic. This was the longest battle of the Second World War -2,075 days – fought over the entire length of the war itself (excluding the war against Japan in the Pacific), from September 3, 1939, to May 8, 1945. It was fought over one of the largest battlefields in history, from Great Britain to North and South America, from the Arctic Ocean in the north to the southern tips of Africa and South America - an area of over 100 million square kilometers!<sup>7</sup>

The Battle of the Atlantic is most often remembered as a battle between German U-boats and Allied convoys, but the Germans also used surface ships to try to disrupt convoys and sink Allied warships and merchant ships. Most famously, in 1941, the German battleship the Bismarck was sunk almost 600 km off the coast of France after being pursued by the Royal Navy for several days across the expanses of the North Atlantic. The Germans had planned to use the Bismarck to sink Allied merchant ships.

In the Canadian context though, the Battle of the Atlantic was mainly a battle against German U-boats in the North Atlantic and the Caribbean.

The character of the Battle of the Atlantic ebbed and flowed throughout the war, but Allied ships were never fully safe from the risk of attack by German submarines. In September of 1939, U-boats sank 53 ships, and in April 1945, the last full month of the war, they sank 23 ships, demonstrating the continued threat the U-boats posed throughout the war.<sup>8</sup> During the war, U-boats sank 3,065 ships while 765 U-boats were lost, either sunk by Allied action or lost through accidents, collisions, and other causes.<sup>9</sup>

<sup>&</sup>lt;sup>7</sup> https://www.iwm.org.uk/history/what-you-need-to-know-about-the-battle-of-the-atlantic

<sup>&</sup>lt;sup>8</sup> https://uboat.net/allies/merchants/losses\_year.html

<sup>&</sup>lt;sup>9</sup> https://uboat.net/fates/losses/chart.htm

HMCS Cobalt – Cobalt's Namesake Goes to War

A German submarine, U-190, after surrendering to the RCN at the end of the Second World War in May 1945. It is being escorted by three RCN Fairmile motor launches. This was a Type IX U-boat, a long-range U-boat armed with four torpedo tubes in the bow and two in the stern as well as anti-aircraft guns for defence against air attack. (Credit: Library and Archives of Canada / PA 116940, www.forposterityssake.ca. Photo has been digitally restored by the author.)<sup>10</sup>



In terms of German U-boat activity, the battle was initially fought mainly in the eastern Atlantic in waters off the coast of Great Britain, as illustrated in the map below which shows locations of ships sunk by U-boats in December 1939.<sup>11</sup>

HMCS Cobalt - Cobalt's Namesake Goes to War

<sup>&</sup>lt;sup>10</sup> Some of the photos in this book have been digitally restored by the author. This process included converting sepia toned images to black and white, enhancing image contrast to show details better, removing dust marks, scratches and other blemishes from the photos, and removing artefacts from the process of scanning the photos, such as white spots on the images due to dust on the scanner. All photos that have been restored are labelled as such.

<sup>&</sup>lt;sup>11</sup> https://uboat.net/allies/merchants/losses\_year.html?qdate=1939-12





However, German U-boat crews soon expanded their area of operations. In addition, new types of Uboats were introduced with longer ranges, and the Germans used larger U-boats as well as ships to refuel and resupply U-boats at sea, allowing them to operate much further from their bases in Germany and from new bases that the Germans built in France and Norway after successfully invading both countries in early 1940.

Throughout late 1940 and through 1941, the U-boats operated further and further west in the Atlantic, with ships first sunk near Greenland in April 1941 and near Newfoundland in June 1941. Later in 1941, the U-boats also ranged further south, with the first sinkings off the coast of South America in September 1941.

The biggest change in the Battle of the Atlantic, and one which had a major impact on the Royal Canadian Navy (RCN), was the entry of the United States into the war after the Japanese attack on Pearl Harbor in Hawaii in December 1941. The US Navy initially refused to take the advice of the Royal Navy and RCN and introduce a convoy system off the east coast of the US, even though the US Navy and Coast Guard had actually been helping with convoy escort duty as far east as Iceland for several months before the US entered the war. With the new enemy in the Pacific Ocean, the resources of the US Navy were stretched thin, and they felt that the resources needed to implement convoys were not worth it.

Strategically, some in the US Navy also felt that convoy escort was too defensive – it was better to go on the attack and hunt down the U-boats and leave the merchant ships to cross the Atlantic on their own.<sup>12</sup>

The US also did not impose a blackout in coastal areas, as had been done in Canada and Newfoundland since the start of the war.<sup>13</sup> This meant that cities and towns all along the US coast remained brightly lit at night for several months in early 1942.

The U-boats immediately capitalized on this. A German U-boat sank a ship off Cape Sable, Nova Scotia in early January 1942 and then continued south towards the US, one of five U-boats sent to the western Atlantic. They found many easy targets off the US east coast, where city lights at night provided excellent illumination to sink ships, and the lack of defences meant the U-boats could surface and sink ships using guns mounted on their decks, saving their precious torpedoes for another day. In one example, on the evening of April 10, 1942, a U-boat sank the unescorted tanker SS Golfamerica. The tanker was backlit by the lights of a busy amusement park in Jacksonville, Florida, and after hitting the ship with a torpedo the U-boat surfaced and sank the ship by gunfire. The sinking happened so close to shore that people on the beach tried to rescue some of the crew. The U-boat brazenly surfaced about 100 yards from the shore and the captain later recalled seeing people on the beach and running from their hotels.<sup>14</sup>

In a 2011 article in Legion Magazine, Canadian historian Marc Milner stated that "In February 1942, more ships were sunk by U-boats off the American east coast than had been sunk globally in any previous month of war" Milner goes on to state that "The carnage that was subsequently inflicted on Allied shipping traveling in the American zone in 1942 – some 6.1 million tons of shipping, nearly three times the previous yearly averages since 1939 – makes this failure one of the great military blunders in history, and one of the greatest Allied catastrophes of the war."<sup>15</sup>



Texaco advertisement from 1942, imploring people to drive less.

<sup>&</sup>lt;sup>12</sup> https://legionmagazine.com/en/an-american-blunder-navy-part-43/

<sup>&</sup>lt;sup>13</sup> At that time Newfoundland as an independent country. Newfoundland did not become part of Canada until 1949.

<sup>&</sup>lt;sup>14</sup> https://www.beachesmuseum.org/75th-anniversary-sinking-ss-gulfamerica/

<sup>&</sup>lt;sup>15</sup> https://legionmagazine.com/en/an-american-blunder-navy-part-43/

A British merchant ship sinking off the coast of Newfoundland. (Credit: Robert Chasse photo, https://www.silverhawkauthor.com/post/royal-canadian-navy-in-the-battle-of-the-atlantic-1939-1945)



In response, the RCN and the Royal Navy began escorting ships along the US east coast and into the Caribbean, where U-boats were on the hunt for tankers bringing oil from Venezuela as well as other vital supplies.<sup>16</sup>

The U-boats also pressed into the Gulf of St. Lawrence and the St. Lawrence River, sinking ships almost as far west as Rimouski, Québec, less than 300km sailing distance from Québec City. The RCN, already stretched to the limit, had to transfer escort ships to the St. Lawrence and start sending merchant ships in conveys from Québec City to Sydney, Nova Scotia, and a naval base was established in Gaspé, Québec.<sup>17</sup>

<sup>&</sup>lt;sup>16</sup> https://legionmagazine.com/en/operation-drumbeat/

<sup>&</sup>lt;sup>17</sup> https://legionmagazine.com/en/the-battle-of-the-st-lawrence/

Map of locations of ships sunk or damaged by U-boats in May 1942. (Credit: https://uboat.net/allies/merchants/losses\_year.html?qdate=1942-05)



Eventually, the tide began to turn. The Battle of the Atlantic was very much a battle of technology and tactics. The Germans continued to improve their U-boats throughout the war, increasing the range and the number of torpedoes they could carry, and introducing new types of torpedoes that could home in on the sound of ships' propellers. Late in the war, they introduced revolutionary new U-boats that could operate fully submerged all the time. The Germans also introduced improved tactics, including having U-boats operate in groups called wolf packs and improving communications to be able to bring multiple wolf packs into the attack once a convoy was located.

For the Allies, many factors led to ultimate victory in the Battle of the Atlantic. One was sheer numbers. The Germans simply could not build and crew enough U-boats to defeat the ever-increasing numbers of Allied warships and merchant ships. Allied technology improved considerably too. One important factor was that the Allies were able to break the German secret code used to send messages to ships and U-boats, giving the Allies important information on U-boat movements. But Allied intelligence extended far beyond that. Allied ship movements were tracked in precise detail, and intercepted German radio signals were used to locate and track the movements of U-boats relative to the known positions of Allied ships. Convoy routes were carefully planned, and intelligence gathered was used to route convoys away from U-boats and the wolf packs. So successful was naval intelligence, and so challenging was it for German U-boats to even find Allied ships in the huge open spaces of the North Atlantic, that the vast

majority of convoys made it safely to their destination without encountering any U-boats or losing any ships due to enemy action. This is illustrated in the record of convoys that HMCS Cobalt escorted during the war (Appendix 2). Of the 116 convoys escorted by the Cobalt during the war, 100 did not lose any ships, and in some cases when ships were lost, they were not lost due to enemy action but rather to collisions in the fog (a significant hazard with ships sailing so close together in convoys), accidents, bad weather, or other factors.

However, when wolf packs did succeed in converging on a convoy they outnumbered the escorts, and the results could be devastating. Nothing demonstrates this more than the wolfpack attack on convoy SC 7 which departed from Sydney, Nova Scotia on October 5, 1940, bound for Liverpool in the UK. This convoy consisted of 35 merchant ships and five Royal Navy escorts. As the convoy approached UK waters on October 17, it was sighted by a U-boat. Over the next three days, until the survivors finally reached Liverpool, the convoy came under sustained attack by eight U-boats. A convoy from Halifax arrived in the area too, adding more targets for the U-boats. In 48 hours, the U-boats sank 28 ships from the two convoys, including 7 by the U-boat U-99. Only 15 of the 35 merchant ships that had departed Sydney on October 5 with SC 7 reached Liverpool. For the Allies, it was the worst two days in the entire Battle of the Atlantic. No U-boats were sunk.<sup>18</sup>

<sup>&</sup>lt;sup>18</sup> https://en.wikipedia.org/wiki/Convoy\_SC\_7

Photo from HMCS Cobalt or HMCS Saskatoon sailing in foggy conditions and with the ship encrusted in ice. Both fog and ice were significant hazards to convoys. (Credit: Collection on Ronald Judges, courtesy of Chanin Graham, personal communication with the author. Photo has been digitally restored by the author.)



*Icebergs* – another potential hazard in the cold North Atlantic. Taken from HMCS Saskatoon late in the war. (*Credit: Collection of Desmond Bolin, www.forposterityssake.ca. Photo has been digitally restored by the author.*)



Allied air power also played a pivotal role in winning the battle against the U-boats. Early in the war, aircraft were only able to patrol a short distance from land, and convoys were left unescorted by any aircraft throughout most of the Atlantic. As the war progressed, the range of Allied patrol aircraft steadily improved, until the gap of aircover over the Atlantic was completely closed, with Allied aircraft operating from Britain, Iceland, Newfoundland, Canada, the US, and the Caribbean. Aircraft also began to carry radar, allowing them to detect submarines on the surface far beyond the range of visual observers in the aircraft. The Allies also converted some merchant ships into small aircraft carriers. The ships continued to carry their cargo, but the flight deck allowed each to carry three or four aircraft that could patrol ahead of the convoy on the lookout for U-boats.

Convoy escort ships were the last line of defence if the U-boats were able to locate and attack a convoy. These escorts became not only much more numerous but also much more effective as the war went on, with new systems like radar, improved ASDIC (sonar), and new weapons, as well as improved tactics (Appendix 4).

All of these factors contributed to bringing the U-boat threat under control. Losses dropped, but the threat remained, and U-boats continued to take a toll until the end of the war. A month-by-month summary of ship sinkings and U-boat losses throughout the war is provided in Appendix 3 and illustrated in the graph below which shows that the U-boat threat could never be dismissed.



A Merchant Aircraft Carrier (MAC ship) in harbour. The location is unknown, but the person who took the photo served on RCN minesweepers based in Halifax and St. John's. This was likely taken in Halifax. The MAC ship has three or four Fairey Swordfish aircraft on deck. Although primitive looking, these biplanes were highly effective aircraft, particularly when out of range of enemy fighter aircraft, and they served throughout the war. They were ideally suited to the small decks of the MAC ships and were equipped with radar and depth charges or rockets. This MAC ship was a converted oil tanker and still carried a cargo of oil when crossing the Atlantic. In some cases, depending on the type of fuel carried, these MAC ships could also be used to refuel other ships at sea. (Credit: Collection of William Connor, www.forposterityssake.ca. Photo has been digitally restored by the author.)



Royal Air Force (RAF) B-24 Liberator patrolling over a convoy in 1943. Liberators were American-made heavy bombers that played a very important role in the Battle of the Atlantic. Armed with depth charges and equipped with radar and powerful searchlights that allowed them to attack submarines day or night, they sank or helped sink 93 submarines. They were flown by the RAF, the Royal Canadian Air Force, and the US Navy from bases in the United Kingdom, Iceland, Newfoundland, Canada, the US, the Caribbean, and the Azores Islands.<sup>19</sup> One Liberator variant, the Very Long Range (VLR) Liberator, had armour removed and extra fuel tanks added, giving it a range of 2,300 nautical miles (4,260 km) which allowed them to stay aloft up to 11 hours and patrol over any part of the North Atlantic. (Credit: Library and Archives of Canada, PA-107907).



<sup>&</sup>lt;sup>19</sup> https://documents.techno-science.ca/documents/CASM-Aircrafthistories-ConsolidatedB-24Liberator.pdf

HMCS Cobalt - Cobalt's Namesake Goes to War

From its tiny start in 1939, and through many challenges as the RCN grew massively from about 3,000 sailors in 1939 to almost 100,000 in 1945, Canada made very important contributions to the Battle of the Atlantic. The RCN only destroyed 30 German U-boats as well as three Italian submarines, but despite this, Canada's role was invaluable. The primary role of convoys, after all, was to ensure that the merchant ships arrived safely to their destination. If the escorts sank U-boats attacking convoys, that was a bonus. But breaking up an attack and ensuring that no merchant ships were lost, even if no submarines were sunk, was almost as good. Even better was being able to evade the U-boats entirely and cross the Atlantic with no contact with U-boats.

The growing size, ability, and experience of the RCN in the Battle of the Atlantic also translated into growing responsibility. The ships of the RCN took over more and more of the escort duties in the North Atlantic. In April 1943, Canadian Rear-Admiral Leonard Murray became Commander-in-Chief, Canadian Northwest Atlantic Command, and continued in this role until the end of the war. He was the only Canadian to command a theatre of war during the Second World War and he had command of all Allied escort ships, not just RCN ships, in an area from Baffin Island in the north to the Gulf of Maine in the south, and east to the mid-Atlantic roughly from Greenland south.

By the end of the war, the RCN had helped ensure that over 25,000 merchant ships safely reached their destinated. They helped to ensure the delivery of almost 165 million tons of supplies to Britain and to the Allied armies and air forces fighting in Europe.

The RCN lost 30 ships and smaller boats during the war including 13 sunk in U-boat attacks. During the war, 1,990 RCN sailors lost their lives, mostly in the North Atlantic. In addition, about 12,000 Canadians who served aboard merchant ships also lost their lives.<sup>20</sup>

<sup>&</sup>lt;sup>20</sup> https://www.warmuseum.ca/learn/dispatches/the-royal-canadian-navy-and-the-battle-of-the-atlantic-1939-1945/#tabs

*Colourized photo of the German U-boat U-889 after surrendering to the RCN off Shelbourne, Nova Scotia, May 13, 1945. (Credit: www.forposterityssake.ca.)* 



Map of the main areas of operation of the RCN corvettes during the Second World War, showing the areas covered by the Newfoundland Escort Force (NEF), the Mid-Ocean Escort Force (MOEF), and the Western Local Escort Force (WLEF) as well as main convoy escort routes, the locations of RCN corvettes sunk during the war, and the locations of U-boats sunk by RCN corvettes. (Credit: Macpherson, Ken and Milner, Marc. 1993. Corvettes of the Royal Canadian Navy 1939-1945. Vanwell Publishing)



### 3 Enter the Corvette

Back to 1939. To win the battle against the U-boats, the Royal Navy and the RCN needed escort ships. The ideal convoy escort ship would be built to modern naval standards and would be fast and appropriately equipped with the latest sensors and weapons to take on the U-boats, while having the range and sea-keeping characteristics to be able to cross the stormy North Atlantic in reasonable comfort. However, such ships took time to design, order, and build, and they needed to be built in shipyards with experience in building warships. With war almost inevitable, the Royal Navy knew that it could not afford to wait until the "ideal" escort ships were available in sufficient numbers – the war could be lost by then. The ideal escort ships would have to wait – they needed something else, and fast!

This urgent need for ships to escort convoys led to the birth of the corvette. The design for the corvette was based on a whaling ship, and the ships could be built quickly and cheaply in civilian shipyards that had no experience building warships, using the same methods and materials used to build merchant ships. The first group of corvettes was ordered in July 1939, just weeks before the war started in September.<sup>21</sup>

The first corvettes were known as the "Flower-class" since the corvettes in the Royal Navy were all named after flowers. The British had not originally intended to give these ships names, just numbers, as was common for smaller ships in the Royal Navy. However, the British corvettes ended up being named after flowers at the suggestion of Winston Churchill who was at that time First Lord of the Admiralty<sup>22</sup> (he became the British Prime Minister in May 1940). Churchill, with wry British humour, thought it would be amusing and good public relations to be able to report that a U-boat had been sunk by a ship with a most un-warlike name, like Buttercup or Petunia.<sup>23</sup>

The first orders were placed with shipyards in Britain, and in January 1940 the first order was placed with Canadian shipyards, mainly along the St. Lawrence River and the Great Lakes, and on the west coast.<sup>24</sup>

HMCS Cobalt - Cobalt's Namesake Goes to War

<sup>&</sup>lt;sup>21</sup> McKay, John and Harland, John. 2010. *The Flower Class Corvette Agassiz (Anatomy of the Ship)*. Conway Maritime Press

<sup>&</sup>lt;sup>22</sup> The First Lord of the Admiralty was the cabinet minister responsible for the Royal Navy.

<sup>&</sup>lt;sup>23</sup> https://legionmagazine.com/en/the-humble-corvette-navy-part-27/

<sup>&</sup>lt;sup>24</sup> Macpherson, Ken and Milner, Marc. 1993. Corvettes of the Royal Canadian Navy 1939-1945. Vanwell Publishing

Drawing of a Canadian Flower class corvette showing the ship's layout as originally built. (Credit: Drawing by John W. McKay in Corvettes of the Royal Canadian Navy 1939-1945 by Ken *MacPherson* and Marc *Milner*, 1993, Vanwell Publishing, www.forposterityssake.ca) DECKS Paint & Lamp Room Peak FORECASTLE AND BRIDGE ø Stoker's Mess 1g PO'S PO'S MESS \$ Ter 10.4 Nater ø ¢. 8 2 000 Galley Store O.F.T Boiler Room Boker Room 100 Engne 20S 0 Ð Steening Ge M/S Store

HMCS Cobalt – Cobalt's Namesake Goes to War

Eventually, 294 corvettes were built in the UK and Canada and they made a huge contribution to the war effort, living up to the nickname given them by Churchill: cheap and nasties.<sup>25</sup> They were the most numerous class of ship ever to serve in the RCN and they were the most numerous class of warship ever built.<sup>26</sup> The Royal Navy (140) and the RCN (123) were the largest operators of Flower class corvettes, but these ships also served during the war in the navies of:<sup>27</sup>

- United States Navy (25)
- Free French Naval Forces (9)
- Belgium (2)
- The Netherlands (1)
- Norway (6)
- Greece (4)
- India (3)
- New Zealand (2)
- Yugoslavia (1)<sup>28</sup>

Four even served with the German navy, having been under construction in French shipyards at the time of the German invasion in 1940, captured incomplete, and finished by the Germans as escort ships.<sup>29</sup>

With Canada's entry into the war in September 1939, the tiny pre-war Royal Canadian Navy began a very rapid expansion. At the outbreak of the war, the RCN was even less prepared than the Royal Navy, with just 13 warships, 6 of which were ocean-going ships, and 366 officers and 3,477 ratings, including those in the naval reserves.<sup>30</sup> From that tiny start, the RCN grew to become one of the largest navies in the world by the end of the war, with almost 100,000 men and women in uniform and 434 commissioned vessels of all sizes, from cruisers and destroyers to escort ships like frigates and corvettes, smaller auxiliary vessels for coastal duties, landing craft, etc.<sup>31</sup>



1942 Canadian postage stamp depicting HMCS La Malbaie under construction.

As the size and capabilities of the RCN grew it played an increasingly important role in the Battle of the Atlantic. That growth, particularly in the early years of

HMCS Cobalt – Cobalt's Namesake Goes to War

<sup>&</sup>lt;sup>25</sup> https://www.immortalwordsmith.co.uk/churchill-corvette-cheap-nasty/

<sup>&</sup>lt;sup>26</sup> LeCren, Bruce. 2020. The Flowers of Canada - The Royal Canadian Navy's Corvettes in World War II. Originally published

in the Nautical Research Journal Spring 2020. http://www.forposterityssake.ca/RCN-DOCS/Flowers-of-Canada-LeCren.pdf <sup>27</sup> The total number adds up to the more than the total number built because some corvettes were transferred to other navies during the war. For example, some corvettes, originally serving with the Royal Navy, were transferred to the US Navy and the Free French Naval Forces.

<sup>&</sup>lt;sup>28</sup> https://en.wikipedia.org/wiki/List\_of\_Flower-class\_corvettes

<sup>&</sup>lt;sup>29</sup> https://uboat.net/allies/warships/class/42.html

<sup>&</sup>lt;sup>30</sup> https://www.silverhawkauthor.com/post/royal-canadian-navy-in-the-battle-of-the-atlantic-1939-1945

<sup>&</sup>lt;sup>31</sup> https://natoassociation.ca/9-little-known-facts-about-canadas-contribution-in-ww2/

the war, was built on the backs of corvettes and the men from across Canada who served on these rugged little ships.

A 1941 poster from the Wartime Information Board, Ottawa, featuring artwork by famed Canadian artist, Alex Colville. (Credit: Maritime Museum of the Atlantic)



## 4 A Corvette named Cobalt

What does all of this have to do with the mining town of Cobalt, Ontario, so far from the Atlantic?

Except for ten Canadian corvettes originally built for the Royal Navy, Canadian corvettes were not named after flowers. Instead, they were named after towns and cities across Canada. This was done to help involve residents of those towns in the war effort, giving them a sense of connection with the ships and their crews. As Rear Admiral Percy Nelles, Canada's Chief of Navy Staff said, "Flowers don't knit mittens!"<sup>32</sup>

Cobalt was one of the first Canadian towns so honoured. His Majesty's Canadian Ship (HMCS) Cobalt was one of the first batch of 64 corvettes ordered for the RCN. She was built in a shipyard in Port Arthur, Ontario, now known as Thunder Bay. Construction of the Cobalt began in April 1940, and true to the intention that corvettes be built quickly, she was launched on August 17, 1940, and commissioned into the RCN on November 25, 1940 – the fifth of 104 Canadian-built corvettes. She left immediately for Halifax before the Great Lakes and St. Lawrence River froze for the winter, which would have left her stuck in Port Arthur until spring, useless to the war effort. She stopped in Montreal to have some radio equipment installed and have her radio direction-finding equipment calibrated.<sup>33</sup> She then sailed on to Halifax where the final work was completed. In January 1941, HMCS Cobalt was ready to go to war.<sup>34</sup> A significant accomplishment in a country with little experience building warships.

HMCS Cobalt had the identification number K124. This number, known as a pennant number, was painted on the hull of the ship. The ship's name was not painted prominently on the hull for security reasons, although there was a plaque aboard the ship with her name on it.

<sup>&</sup>lt;sup>32</sup> https://legionmagazine.com/en/the-humble-corvette-navy-part-27/

<sup>&</sup>lt;sup>33</sup> Details of the stop in Montreal determined based on a Naval Message sent from Naval Service Headquarters in Ottawa to the Resident Naval Overseer Port Arthur on November 26, 1940. Source: Library and Archives Canada <sup>34</sup> http://www.forposterityssake.ca/Navy/HMCS\_COBALT\_K124.htm


HMCS Cobalt is launched at the Port Arthur Shipbuilding Company in Port Arthur, Ontario, on August 17, 1940. (Credit: Thunder Bay Museum. Photo has been digitally restored by the author.)

HMCS Cobalt in Halifax, April 24, 1941. Her anti-aircraft gun still has not been installed. (Credit: CFB Esquimalt Naval and Military Museum Photo. Photo digitally restored by the author.)



HMCS Cobalt was armed with a 4-inch gun on the forward part of the ship that could be used to attack submarines on the surface or to defend herself if attacked by surface ships. For protection from attack from aircraft, she was initially armed with machine guns. Later in the war, as heavier, more capable weapons became more available, her anti-aircraft weapons were improved to include two 20mm cannons on the bridge and a gun near the stern that fired heavier shells weighing 2 pounds each. See Appendix 4 for more information on the Cobalt's armament and other equipment.<sup>35</sup>

Apart from the 4-inch gun, the Cobalt was equipped with two key tools to protect convoys and do battle with U-boats. The first was sonar, known in the Royal Navy and the RCN as ASDIC, which was used to detect submarines under water. The second was a weapon known as a depth charge. Depth charges were barrels filled with explosives and fitted with a fuse set to detonate at a specific depth below the surface.<sup>36</sup>

Depth charges were stored on the deck of the ship and could be rolled off the stern using rails or launched over the side of the ship. Depth charges would explode behind the ship, and if they exploded close enough to a U-boat, they would cause internal damage to the U-boat or damage the hull. Originally, the Cobalt had two rails for launching depth charges off the stern and a pair of launchers to fire depth charges over the side of the ship. Later, a second pair of launchers was added, enlarging the coverage when a "pattern" of depth charges was fired and increasing the chance of a successful attack. As the war progressed, corvettes also carried larger numbers of depth charges to help ensure that they would not run out during prolonged attacks on U-boats.

<sup>&</sup>lt;sup>35</sup> McKay, John and Harland, John. 2010. *The Flower Class Corvette Agassiz (Anatomy of the Ship)*. Conway Maritime Press

<sup>&</sup>lt;sup>36</sup> Same reference as above.

*The Cobalt's main gun, viewed from the bow, taken some time between January 1942 and March 1943. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)* 



Firing the main gun of HMCS Sherbrooke. This photo was taken late in the war, and the gunshield has rails attached to it to fire rockets that would provide illumination at night. (Credit: Library and Archives Canada / PA-184185.)



Depth charge rails on the stern of HMCS Lethbridge. The crew are laying a smoke screen using a smoke float. (Credit: Collection of Joseph Roberts, www.forposterityssake.ca. Photo has been digitally restored by the author)



Crew on the stern of HMCS Midland enjoying some fiddle music by one of the crew. Depth charge rails can be seen and the men in the foreground are sitting/leaning on a rack for storing additional depth charges. (Credit: From the collection of Harold W. Bee, www.forposterityssake.ca. Photo has been digitally restored by the author.)



*Two of Cobalt's crew members, R. Bishop and J. Pearce, share a laugh beside one of the depth charge launchers in 1943. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)* 



Depth charge being fired from HMCS Pictou. (Credit: Library and Archives Canada—PA116838.)



ASDIC operators aboard HMCS Cobourg. (Credit: Department of National Defence.)



Later in the war, two new tools were added to the toolkit, increasing Cobalt's effectiveness in the Battle of the Atlantic. One tool was radar, which helped to detect U-boats or other ships on the surface. The other, added in 1944, was a new weapon known as the hedgehog, which further increased the odds of a successful attack on a U-boat. The hedgehog was a type of mortar that fired a pattern of 24 bombs about 250 meters in front of the ship. These bombs, which had much less explosive than the depth charges, would only explode if they hit a submarine, and a single hit could be fatal. In 1944, the Cobalt's ASDIC was improved as well.<sup>37</sup>

<sup>&</sup>lt;sup>37</sup> McKay, John and Harland, John. 2010. *The Flower Class Corvette Agassiz (Anatomy of the Ship)*. Conway Maritime Press

Loading rounds on the hedgehog mortar aboard the corvette HMCS North Bay. (Credit: Library and Archives Canada PA-114737.)



Hedgehog rounds being fired from the corvette HMCS New Westminster. (Credit: Collection of Hector Trotter, www.forposterityssake.ca.)



## 5 Corvette Crews

As described in Section 2, the RCN was tiny when the war started in 1939, with just 309 officers and 2,967 ratings (the naval equivalent of enlisted personnel in the army), of whom just 129 officers and 1,456 ratings were full-time professionals with the RCN.<sup>38</sup> The others were split between the RCN Reserve (RCNR)(127 officers as of October 15, 1939) and the RCN Volunteer Reserve (RCNVR)(183 officers as of October 15, 1939).<sup>39</sup>

The RCNR consisted mainly of men who were sailors by day such as fishermen in the Maritime provinces or on the west coast. They received some naval training every year or two in Halifax, Nova Scotia, or Esquimalt, British Columbia. At least all of the men in the RCNR were used to the sea and life aboard ships. The same could not be said for the almost 1000 men in the RCNVR at the start of the war. These men had no professional experience related to ships and the sea and were in reserve units mainly in inland Canada. They helped raise the profile of the navy in these parts of the country, and received training, including summer training in Halifax or Esquimalt, but had limited experience.<sup>40</sup>

This was the foundation from which the RCN grew to have almost 100,000 members just six years later when the war ended. Although the Navy was able to call up retired personnel who had previously served in the RCN or the Royal Navy to help out, there were a lot of growing pains along the way!

In the early years of the war, Canada was able to build new ships like corvettes faster than crew could be trained. Thousands of young men from across Canada enlisted and joined the RCNVR. By May 2, 1940, the number of officers and ratings on active service had already almost tripled,<sup>41</sup> and thousands more would enlist in the coming months. Many of these new sailors had never seen the ocean before and perhaps had never sailed on anything larger than a canoe or a rowboat. They had a lot to learn. Many recruits came from the Prairie Provinces, far from any ocean. Interestingly though, the wide-open spaces of the prairies made some of them better suited to life at sea than those who had grown up in the mountains to the west or the forests to the east. In fact, in early 1943, 40% of the sailors in the navy (up to about 52,000 by then) were from Manitoba, Saskatchewan, Alberta, and British Columbia, which only made up 28% of Canada's population at the time.<sup>42</sup>

<sup>&</sup>lt;sup>38</sup> Douglas, W.A.B., R. Sarty, M. Whitby. 2002. *No Higher Purpose – The Operational History of the Royal Canadian Navy in the Second World War, 1939-1945*. Volume II, Part 1. Vanwell Publishing.

<sup>&</sup>lt;sup>39</sup> Department of National Defence, *The Canadian Navy List*, Corrected to 15<sup>th</sup> October, 1939

https://navalandmilitarymuseum.org/wp-content/uploads/2019/06/CFB-Esquimalt-Museum-Navy-List-1939-October.pdf <sup>40</sup> Same reference as footnote 38.

<sup>&</sup>lt;sup>41</sup> Same reference as footnote 38.

<sup>&</sup>lt;sup>42</sup> Globe and Mail, March 27, 1943. http://www.warmuseum.ca/cwm/exhibitions/newspapers/canadawar/royalnavy\_e.html

*Globe and Mail cartoon from March 27, 1943. (Credit: http://www.warmuseum.ca/cwm/exhibitions/newspapers/canadawar/royalnavy\_e.html)* 



Recruits went through basic training similar to recruits in all branches of the military, but the RCN was short of absolutely everything needed, from instructors, to training facilities, to proper accommodations and food, to uniforms and equipment.<sup>43</sup> Given the desperate state of affairs in the North Atlantic and the need to get the newly built ships out into the convoys, many recruits got most of their training "on the job".

Even before the new corvettes could enter service, a range of smaller vessels from fishing trawlers to civilian yachts were pressed into RCN service. Thus, the lack of crews was already a serious problem when the Cobalt and her newly built sisters started entering service. In addition, in September 1940, Britain completed a deal to get 50 old destroyers from the US Navy in exchange for allowing the US to establish military bases in Newfoundland and the Caribbean. The Royal Navy passed 10 of these destroyers to the RCN – a blessing and a curse. The RCN had 10 more ships, but it needed to find crews for them.<sup>44</sup>

 <sup>&</sup>lt;sup>43</sup> Douglas, W.A.B., R. Sarty, M. Whitby. 2002. No Higher Purpose – The Operational History of the Royal Canadian Navy in the Second World War, 1939-1945. Volume II, Part 1. Vanwell Publishing.
<sup>44</sup> Same as former as a base.

<sup>&</sup>lt;sup>44</sup> Same reference as above.

HMCS Cobalt – Cobalt's Namesake Goes to War

HMCS Columbia seen from the Cobalt, with another corvette in the background, likely in 1941. The Columbia was one of the old US Navy destroyers. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



When the newly built corvettes like the Cobalt went to sea they were crewed by a handful of experienced sailors from the RCN and RCNR. Everyone else was green – new to the sea, new to ships, and inadequately trained no matter their role – communications, gunnery, engine room, cook. Fortunately, in 1940 and early 1941 the German U-boats were operating mostly in the eastern Atlantic and the new Canadian ships and their rookie crews were operating mostly in the western Atlantic (see Appendix 2). That gave them a little bit of breathing room to learn, but not for long. By late spring 1941, the U-boats were operating closer and closer to Canadian and Newfoundland waters. In addition, in 1940 and 1941, the Cobalt and other Canadian escort ships operated in Canadian coastal waters, with shorter times at sea (see the record of the Cobalt's convoy escort duty until May 20, 1941, in Appendix 2). In 1941, Lieutenant Commander Jim Prentice, in charge of the newly formed Newfoundland Escort Force, warned that:<sup>45</sup>

"The majority of the RCN corvettes have been given so little chance of becoming efficient that they are almost more of a liability than an asset to an escort group. The commanding officers have apparently been given no instruction in convoy work and little chance to train their officers, most of who are without sea experience of any sorts. It is as though we were attempting to play against a professional hockey team with a collection of individuals who had not even learned to skate."

Prentice worked the crews of the Newfoundland Escort Force hard as he taught them to skate and play hockey with the professionals.

<sup>&</sup>lt;sup>45</sup> https://www.cbc.ca/history/EPISCONTENTSE1EP14CH1PA2LE.html

HMCS Cobalt – Cobalt's Namesake Goes to War

As crew members gained experience, they were shuffled between ships. That was not good for crew cohesion and esprit de corps, but over time, the ships had more and more experienced crew members and fewer recruits. For example, the corvette HMCS Chambly had more than 250 different men serve aboard her in a two-year period.<sup>46</sup>

As the need for trained crews continued to grow, and the battle intensified, especially in 1942 when the U-boats brought the battle to the shores of Canada and the US, the Canadian crews were stretched almost to the breaking point of exhaustion. The Royal Navy said bluntly to the RCN that "A grave danger exists of breakdown in health, morale and discipline."<sup>47</sup>

Over time, the training also improved so that recruits were not as raw when they were first assigned to ships. Eventually, the training gap was closed, and the Cobalt and other ships had well-trained and experienced crews, making them far more effective in their role.

As originally built, the Cobalt and the other corvettes had a crew of 4 officers and 48 ratings:<sup>48</sup>

Officers:

- 1 lieutenant commander as the ship's captain or commanding officer, RCN or RCNR (in the Cobalt's case, the first commanding officer was RCNR)
- 1 lieutenant, either RCN or RCNR
- 2 lieutenants or sub-lieutenants, either RCNR or RCNVR

Ratings (mix of RCNR and RCNVR):

- 1 Chief Petty Officer
- 3 Leading Seamen
- 12 Able or Ordinary Seamen
- 1 Leading Telegraphist (communications)
- 1 Telegraphist (communications)
- 1 Telegraphist Signalman (communications)
- 1 Signalman (communications)
- 1 Engineer Officer, or Chief Engine Room Artificer (engine room crew)
- 3 Engine Room Artificers (engine room crew)
- 3 Stoker Petty Officers (engine room crew)
- 6 Leading Stokers (engine room crew)
- 10 Stokers (engine room crew)

48

 $<sup>^{46}\</sup> https://winstonchurchill.org/publications/finest-hour/finest-hour-159/churchill-proceedings-canada-and-the-battle-of-the-atlantic/$ 

<sup>&</sup>lt;sup>47</sup> Same reference as above.

http://jproc.ca/rrp/corvette.html?fbclid=IwAR1TAFUN2vVpnoCOs9xBgtUM4PjuN4JWbw6jjQDFvsLBKVKDrMz3kbznDdA

- 1 Petty Officer Victualler or Leading Victualling Assistant (victuallers were responsible for ensuring that the ship had food and other supplies)<sup>49</sup>
- 2 Cooks
- 2 Stewards

HMCS Cobalt's original crew, taken in Halifax early in 1941. In the centre of the front row is the ship's first commanding officer, Acting Lieutenant Commander Robert Baird (RCNR). The other four officers, a lieutenant, and three sub lieutenants, are all RCNVR, as indicated by the wavy rather than straight stripes on the cuffs of their jackets indicating their rank (the RCNVR was nicknamed the wavy navy because of these stripes). The fact that four of the five original officers of the Cobalt were with the RCNVR gives a good indication of just how inexperienced the crew was. Other crew identified in the photo are Greg Cainen (front Row 2nd from right) and William Killam (2nd row, 2nd from right). (Credit: Collection of William E. Killam, www.forposterityssake.ca. Photo has been digitally restored by the author.)



<sup>&</sup>lt;sup>49</sup> Gow, S. 2016. "Pusser Grub? My God but it was awful!" Feeding the Fleet During the Second World War. Canadian Military History 25, 2 (2016) https://scholars.wlu.ca/cgi/viewcontent.cgi?article=1828&context=cmh

Engineering department from the Cobalt's original crew. In the middle of the from row is the ship's Chief Petty Officer, with four other Petty Officers seated beside him. The only crew member identified in the photo is William Killam (seated, 2<sup>nd</sup> from right). (Credit: Collection of William E. Killam, www.forposterityssake.ca. Photo has been digitally restored by the author.)



As the war went on, and the corvettes were refitted and modernized with new equipment added like radar and Hedgehogs, the crew size increased. By the end of the war, corvettes like the Cobalt had crews of up to 85, a significant increase.<sup>50</sup>

A list of HMCS Cobalt's officers throughout her service is provided in Appendix 5.

<sup>&</sup>lt;sup>50</sup> McKay, John and Harland, John. 2010. *The Flower Class Corvette Agassiz (Anatomy of the Ship)*. Conway Maritime Press

HMCS Cobalt's crew, likely taken after the completion of the ship's March-April 1943 refit. (Credit: Queen's County Museum, Liverpool, Nova Scotia, www.forposterityssake.ca. Photo has been digitally restored by the author.)



*Crew photo taken in Halifax in July or August 1944, after completion of the Cobalt's final refit. (Credit: source unknown)* 



## 6 Life Aboard the Corvettes

"What a miserable, rotten hopeless life. I cannot imagine a more miserable existence than this of being caught on a corvette in the Atlantic. An Atlantic so rough that it seems impossible that we can continue to take this unending pounding and still remain in one piece. Ones joints ache and ache from the continuous battle of trying to remain upright."

Those are the words of Winnipeg native Frank Curry who served aboard HMCS Kamsack.<sup>51</sup> Many who served aboard corvettes would likely echo his thoughts.

Corvettes were not large, and they were not glamorous like the sleek, fast destroyers, or the much larger cruisers, battleships, and aircraft carriers. But ships like the Cobalt were vital. They were just over 200 feet long and they were not built for comfort. They were originally intended for escort work in the coastal areas around Great Britain, not for the open ocean, and some joked that they would roll on wet grass. Needless to say, in the heavy seas of the North Atlantic the ships and their crews were thrown around like corks. This made for miserable conditions for the corvette crews. The constant rolling of the ships left many of their crew sea-sick, particularly the newer recruits who were not yet used to life at sea.

To make matters worse, the crews spent most of their time at sea wet. Men at action stations on deck were routinely drenched with sea spray in all but the calmest of seas, and the crew on the open bridge of corvettes were completely exposed to the weather. Those below deck, either off-duty or at their workstations, got little relief. Conditions below deck were cramped, and water regularly entered as a result of spray coming in through open hatches and air vents. Even the toilets allowed water in since they drained by a pipe straight into the ocean. Modifications later in the war extended the uppermost deck further back on the corvettes and helped to reduce the amount of water and thus the misery of the crew. The Cobalt had this modification completed in July 1944. However, the increased armament such as the hedgehog and the addition of radar resulted in bigger crews and even more cramped conditions. Only the engine room offered any relief from the cold, wet conditions, but those serving in the engine room were often the least likely to survive if their ship was torpedoed.<sup>52</sup>

In January 1945, the Cobalt departed St. John's in a severe storm and gale-force winds. The commanding officer, Acting Lieutenant Commander Ralph Wallace, later reported that the ship took a terrific pounding in the gale, with the stern rising 15 feet out of the water and then down again with each wave. About two hours out of St. John's, the port side depth charge rails were severely damaged, and seven depth charges were lost.<sup>53</sup> Fortunately, all had their primers set to safe so none detonated, or the situation could have been far worse since the ship was going quite slowly and exploding depth charges could have damaged the stern of the ship.<sup>54</sup> An investigation was not able to determine if the damage was due to a design flaw

<sup>&</sup>lt;sup>51</sup> https://www.cbc.ca/history/EPISCONTENTSE1EP14CH1PA2LE.html

<sup>&</sup>lt;sup>52</sup> Douglas, W.A.B., R. Sarty, M. Whitby. 2002. *No Higher Purpose – The Operational History of the Royal Canadian Navy in the Second World War, 1939-1945*. Volume II, Part 1. Vanwell Publishing.

<sup>&</sup>lt;sup>53</sup> Memo from the Commanding Officer, HMCS Cobalt to Captain "D", Halifax, January 15, 1945. Library and Archives Canada, RG24, Volume 11559

<sup>&</sup>lt;sup>54</sup> Naval Message from HMCS Cobalt. January 9, 1945. Library and Archives Canada, RG24, Volume 11559

in the rails, or due to faulty installation.<sup>55</sup> However, this demonstrates that rough seas were not just hard on the crews, they were hard on the ships too.

A sailor aboard HMCS Moncton holding on as he walks along the deck in rough seas. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



View from the wheelhouse of the Cobalt. (Credit: Collection of William Killam, https://www.rcnhistory.org/killam-cobalt.htm. Photo has been digitally restored by the author.)



<sup>&</sup>lt;sup>55</sup> Memo from the Commodore Superintendent, Halifax, to the Commander-in-Chief, Canadian Northwest Atlantic, March 21, 1945. Library and Archives Canada, RG24, Volume 11559

*Two photos of HMCS Wetaskiwin in rough seas. (Credit: Ken Macpherson / Naval Museum of Alberta, www.forposterityssake.ca)* 





Spectacular photo taken from the bridge of HMCS Woodstock as it plows into the waves. (Credit: Collection of Harry Harold Palatnick, www.forposterityssake.ca. Photo has been digitally restored by the author.)



Forward mess of HMCS Sackville which is now a museum and memorial in Halifax, Nova Scotia. Note the edging around the tables to help prevent dishware and other objects from sliding off the table. The crew slept in hammocks suspended from the black metal frames attached to the ceiling. (author's photo)



*"Crew member" asleep in a hammock aboard HMCS Sackville, with a "kitten" curled up on his blanket. (author's photo)* 



Captain's quarters aboard HMCS Sackville. Note the voice tube above the captain's bed and the telephone beside the bed, so that crew on the bridge could contact him in the event of an emergency. (author's photo)



Petty Officer's quarters aboard HMCS Cobalt. (Credit: Collection of William Killam, https://www.rcnhistory.org/killam-cobalt.htm)



*Quarters for the ratings aboard HMCS Cobalt. (Credit: Collection of William Killam, https://www.rcnhistory.org/killam-cobalt.htm)* 



Open bridge of HMCS Lethbridge while at sea on a fairly calm day. (Credit: Collection of Joseph Roberts, www.forposterityssake.ca. Photo has been digitally restored by the author.)



HMCS Cobalt before and after she was modified to extend the uppermost deck further back. The bottom photo was taken in Liverpool, Nova Scotia in July 1944, right after the refit was completed. (Credit for top photo unknown. Credit for bottom photo: Collection of Edmund Ferris, www.forposterityssake.ca)





Another photo of the Cobalt, freshly painted, while she was in Liverpool in July 1944. RCN corvettes rusted very quickly due to the type of steel used to build them. They rarely looked this good! (Credit: Collection of Edmund Ferris, www.forposterityssake.ca)



Inside the engine room of HMCS Sackville. (author's photo).



Winter added to challenges for the corvette crews operating on the cold North Atlantic. Water from the sea spray froze on the railings, cables, guns, and other exposed surfaces of the ships. This made it dangerous to move around on deck, could make weapons unusable, and the weight of the ice could cause the ship to become unstable and capsize. Crews needed to use axes and other tools to remove the ice. In March 1944, the Cobalt's commanding officer sent a memo to the senior officer in Halifax, recommending the use of hot salt water and wooden clubs to remove ice, rather than axes and hammers, noting that this method worked well and caused less damage to the paint. It is not known if this recommendation was adopted.



*Ice buildup on the Cobalt, January 1943. (Credit: Cobalt Mining Museum. Photos have been digitally restored by the author.)* 



Crew removing ice from HMCS Cobalt, January 1943. (Credit: Cobalt Mining Museum. Photos have been digitally restored by the author.)



March 24, 1944, memo from HMCS Cobalt's commanding officer, recommending alternate methods of removing ice. (Credit: Library and Archives Canada, RG24, Volume 11358)

CANADA	Department of National Defence No. 1.67 - 1.8 Aabal Service March 24th 194	-
	FROM: Commanding Officer, H.M.C.S. Cobalt.	
	FO: Captain (D) Halifax, H.W.C. Dockyard, Hd ifax, N.S.	
	Methods of ice removal - File D. 5-8-0 SUBMITTED: During the last winter on several occasions when ship became badly iced, hot salt water from deck service was used to great advantage. 2. The use of wooden clubs rather than axes or chipping hermers was found satisfactory and greatly saved the paintwork. 3. In high places where it was difficult to spray hot water, a steam hose and wooden clubs worked very well.	
	C.D.Heward, Lieutenant, R.C.N.V.R., Commaning Officer, H.M.C.S. "Cobalt".	

Corvettes were often at sea for many days. Typically, a single escort group did not provide escort the whole way across the Atlantic, but even if an escort group only went partway across, they would then rendezvous somewhere in the middle of the ocean with a convoy going in the other direction, after a quick stop to refuel and take on supplies in Newfoundland or Iceland. The Cobalt's longest time escorting a single convoy was 13 days in April 1942 when she crossed the Atlantic to Londonderry, Northern Ireland. But looking at her schedule of convoy duty in Appendix 2 indicates that there were times when she may have been at sea even longer than that, for example escorting an east-bound convoy to the mid-Atlantic, then joining a west-bound convoy a day or two later.

Such long times at sea could be an exhausting ordeal for the corvette crews, even if no U-boats were encountered. As a final insult, there was not enough space or refrigeration capacity on the corvettes to store more than a few days worth of perishable foods, so the crew members who could keep their food down were often treated to canned food three meals a day.



The galley of HMCS Sackville. (author's photo)

Crew aboard HMCS Collingwood peeling potatoes on a sunny, calm day at sea. (Credit: www.forposterityssake.ca)



Sailor aboard HMCS Sackville cutting a slice from a loaf of rather stale bread! (Credit: Collection of Patrick Onions, www.forposterityssake.ca)



Despite the discomfort, the cold, the wet, and the dangers, or perhaps because of those things, there was a camaraderie amongst the crews of the Cobalt and other corvettes, as is common in most military units. On active duty, the crew worked in 4-hour shifts, followed by 4 hours off to eat, sleep, or relax by playing cards, writing letters home, reading, or whatever. From the daily rum ration<sup>56</sup> to ship's mascots, to making music, the crews found other ways to relax and escape the stress, discomfort, and the monotony of convoy duty.

*Off-duty crew of HMCS Arvida relaxing on deck. (Credit: Collection of Ivan Bennett, www.forposterityssake.ca. Photo digitally restored by the author.)* 



<sup>&</sup>lt;sup>56</sup> The daily ration of rum for sailors was a Royal Navy tradition that dated to the early 1800s and was adopted by the RCN when it was formed in 1910. Each sailor received a "tot" of 2½ ounces of navy rum mixed with water. The tradition continued in Canada until 1972. https://readyayeready.com/tradition/tot-history.php

*Off-duty crew of HMCS Lunenburg enjoying some sunshine on a bright summer day. (Credit: Collection of Leonard Hare, www.forposterityssake.ca. Photo has been digitally restored by the author.)* 



Crew aboard HMCS Kamloops. Dress requirements were often quite relaxed when they were at sea, although this depended on the ship's commanding officer. (Credit: Collection of Kenneth Medford, www.forposterityssake.ca. Photo has been digitally restored by the author.)



Sailors aboard HMCS Arvida receive their daily rum ration in July 1943 while in port in St. John's. (Credit: Library and Archives Canada / PA-142439, www.forposterityssake.ca)



HMCS Cobalt Christmas card. Many ships produced Christmas cards, which crew could purchase to send home to family and friends.<sup>57</sup> This one is likely from Christmas 1940 since the photo used in the card is actually a 1940 photo of HMCS Windflower, not the Cobalt.<sup>58</sup> (Credit: Cobalt Mining Museum)



<sup>&</sup>lt;sup>57</sup> https://tridentnewspaper.com/holiday-traditions-navy/

<sup>58</sup> http://www.forposterityssake.ca/Navy/HMCS WINDFLOWER K155.htm

*Close-up of the photo of the Cobalt's original crew in 1941, showing the Cobalt's first mascot, a parrot. (Credit: Cobalt Mining Museum. Photo digitally restored by the author.)* 



*Unfortunately, it looks like the parrot did not survive the war, and it was given an appropriate burial at sea. (Credit: Collection of William Killam, https://www.rcnhistory.org/killam-cobalt.htm)* 


Another photo of the ship's crew, taken sometime between January 1942 and March 1943. One of the ship's mascots, a kitten, is poking its head out of the barrel of the main gun. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



More ship's mascots, two puppies, sharing a bone from the galley. (Credit: Rick Adam, personal communication with the author)



Haircut at sea aboard HMCS Camrose, while a sailor in the background strums his guitar. (Credit: Collection of William Welsh,

www.forposterityssake.ca. Photo has been digitally restored by the author.)



Sometimes though, things went too far. In June 1943, the Senior Naval Officer in Pictou, Nova Scotia submitted a complaint to Captain "D" Halifax.<sup>59</sup> There was a shipyard in Pictou, and while the Cobalt was in Pictou, some sailors were seen throwing raw potatoes at women working on a ship under construction. The women had to be removed from the ship to prevent them from getting injured. The author did not find any documentation on the response to the complaint or any possible disciplinary action against the sailors involved.<sup>60</sup>

The previous year, in May 1942, the Flag Officer Newfoundland Force sent a memo to Captain "D" Newfoundland, highlighting concern about discipline issues with HMCS Cobalt's crew, including two warrants and 83 minor offences, which was far above average for corvettes. Offences ranged from improper leave to neglect of duty, to deserting their post, to being drunk aboard the ship, and exhibiting insolent behaviour. The memo recommended an investigation and with the Cobalt being transferred to the Western Local Escort Force, the memo also recommended that Captain "D" Halifax be warned.<sup>61</sup> Captain "D" Halifax responded that one-third of the offences were due to four ratings, two of whom had left the ship, and also noted that there had been a large decrease in offences. The Cobalt's commanding officer, Lieutenant Colin James Angus, was satisfied with the conduct of the crew and was told to watch for trends in offences.<sup>62</sup>

Time in port brought the opportunity for some shore leave and a chance to relax, while also helping to do repairs and maintenance and preparing the ship for her next trip to sea, from helping to load supplies to painting. Painting is the perpetual job of any sailor since metal ships and salt water don't mix well. The Canadian-built corvettes were particularly prone to rust due to the process used to make the steel plates for their hulls and they were being repainted almost constantly.

Shore leave could last from a few hours to a few days, perhaps longer if a ship was in refit or if the crew were granted a longer leave. Many organizations set up facilities and events for sailors on shore leave, such as the YMCA. There was everything from dances to sports events, reading rooms, and even camping near St. John's. For officers, the Crow's Nest Officer's Club in St. John's provided a refuge from the stresses of life and leadership at sea, in the company of the only other people who could really understand - the officers of other naval and merchant ships sharing the hardships and challenges of life on convoy duty in the North Atlantic.

Sometimes, all did not go according to plan on shore leave. Sadly, in January 1943, a crew member of the Cobalt, Acting Leading Seaman James Graham, was killed while on shore leave in New York City,

<sup>&</sup>lt;sup>59</sup> Captain "D" was a senior officer, in this case based in Halifax. He had administrative and tactical control over the flotilla of escort ships. https://legionmagazine.com/the-training-gap-navy-part-31/

<sup>&</sup>lt;sup>60</sup> Memo from the Senior Naval Officer, Pictou, Nova Scotia to Captain "D" Halifax, HMC Dockyard, Halifax, Nova Scotia, June 11, 1943. Library and Archives Canada, RG24 Volume 11569.

<sup>&</sup>lt;sup>61</sup> Memo from the Flag Officer Newfoundland Force to Captain "D" Newfoundland, May 24, 1942. Library and Archives Canada, RG 24 Volume 11569.

<sup>&</sup>lt;sup>62</sup> Memo from Captain "D" Halifax to Captain "D" Newfoundland, May 29, 1942. Library and Archives Canada, RG24 Volume 11569.

struck by a subway train.<sup>63</sup> Graham is buried in his hometown of Goderich, Ontario. He was one of only two crew members of HMCS Cobalt to die while on active duty.<sup>64</sup>

In another case, the Cobalt's commanding officer had to request that a crew member be removed from the crew, stating that "in port he is frequently under the influence of liquor without being so affected as to give reason for a charge. He causes much dissatisfaction among personnel."<sup>65</sup> Given the reputation of sailors for imbibing from time to time, one can only imagine the trouble this crew member must have caused for the captain to request his removal!

The end of shore leave sometimes resulted in frantic telegrams to the ship's commanding officer, explaining why a crewman was delayed (everything from a delayed train to a wife recovering from childbirth) to ensure that they were not reported as absent without leave. All had to be approved by the commanding officer – one of his many administrative/management responsibilities aside from the stereotypical role of military commander portrayed in movies. The movies don't bother to show other aspects of the job, like approving the monthly pay for the crew, providing updates to naval command on next of kin information, approving crew members for training, recommending crew for promotions, overseeing refits, overseeing onboard training (e.g., during workup periods following refits), and many other less glamorous but essential roles.<sup>66</sup>

A celebration in the forward mess - a birthday perhaps? Quite likely in port, since the beer is flowing. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



<sup>&</sup>lt;sup>63</sup> Memo from the Commanding Officer of HMCS Cobalt to the Naval Service Headquarters in Ottawa, January 14, 1943. Library and Archives Canada, RG24, Volume 11358.

<sup>&</sup>lt;sup>64</sup> The other crew member of HMCS Cobalt to die on active duty was 51-year-old Chief Engine Room Artificer George Randall. Randall died on April 17, 1942, while the Cobalt was at sea. Cause of death was suicide.

http://www.forposterityssake.ca/JPGs/PHOTO-DIR/CTB-PHOTOS-27000/CTB028160.jpg

<sup>&</sup>lt;sup>65</sup> Memo from the Commanding Officer of HMCS Cobalt to the Drafting Commander, RCN Barracks, Halifax, October 10, 1942. Library and Archives Canada, RG24, Volume 11358.

<sup>&</sup>lt;sup>66</sup> Various documents in Library and Archives Canada, RG24, Volume 11358

*The sailor's other job – painting, here aboard HMCS Drumheller. (Credit: Collection of Bernard (Bunny) Brewster, www.forposterityssake.ca. Photo has been digitally restored by the author.)* 



Two of Cobalt's crew enjoying a little time ashore. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



Ad for a famous burlesque dancer in New York City, popular with some of the Cobalt's crew during their trips to the Big Apple when escorting convoys to and from Halifax. (Credit: Collection of Ken Adam, courtesy of Rick Adam, personal communication with the author.)



#### The Consummation of the Wedding of the Snake

Wedding of the Snake Many thousands of years ago, there was a handsome young warrior, who was in love with the village chieftian's daughter, ZORITA. Minerva, a powerful goddess, had seen the young warrior and was infatuated with him, but her love he spurned. On the eve of his wedding to ZORITA, Minerva in her wrath, changed him into the form of a snake. ZORITA sees him only im his original handsome form. As she consummates her marriage, her eyes are opened, she is horrified. She appeals to the goddess who lets her die to join her lover. This beautiful interpretive dance is taken from Greek mythology.



# 7 A Top Secret Start

The career of HMCS Cobalt got off to an unusual and secret beginning. She found herself involved in trials of a type of camouflage to make it harder to see ships at night.<sup>67</sup>

In wartime, ships at sea, both warships and merchant ships, traveled with their lights out to make it more difficult for submarines or surface ships to see them at night. However, the night sky is rarely completely black, and a ship could still appear as a dark silhouette against the night sky. A professor at McGill University in Montreal proposed a type of lighting called "diffused-lighting camouflage" to illuminate ships slightly, to make them harder to see against the night sky. The professor approached the RCN with his idea. After some laboratory tests showed that the concept had potential, it was decided to take the experiment to full scale.

In January 1941, the Cobalt was fitted with lights mounted on temporary supports on one side of the hull, and the brightness of the lights could be controlled. The trials were conducted near Halifax. Observers on another ship a short distance from the Cobalt communicated by radio with the crew of the Cobalt so that the brightness of the light could be adjusted to make the Cobalt as difficult to see as possible.

These first trials with the Cobalt were successful enough that the development of this type of lighting continued, although the Cobalt was no longer involved. The Royal Navy and US Navy also conducted trials. Ultimately, the widespread adoption of radar made the use of this camouflage method less relevant, and it was not adopted. But it meant a unique start to the Cobalt's service in the RCN.

<sup>67</sup> Musee Naval du Quebec. 2008. Diffused lighting and its use in the Chaleur Bay

https://web.archive.org/web/20130522231113/http://www.navy.forces.gc.ca/navres/NMQ\_MNQ/researches\_recherches/diff usedLighting\_camouflageLumineux/index-eng.asp

HMCS Kamloops, used in the final trial of diffused lighting in the fall of 1941. In the first photo, lights for the system can be seen installed on the funnel and in at least one location on the bridge. The second photo provides a closer view of the lights installed in the funnel. (Credit: first photo collection of George John Sedgwick, www.forposterityssake.ca. Second photo: unknown)



# 8 Cobalt on Convoy Escort Duty

The rest of HMCS Cobalt's wartime service was typical of Canadian corvettes fighting in the Battle of the Atlantic. From March through late May 1941, she escorted several convoys headed to Britain from Halifax, staying with the convoys for one to two days before returning to port. A good start for her green crew.

In May 1941, she joined the newly formed Newfoundland Escort Force based in St. John's, Newfoundland. To better prepare the crew of novice sailors, the ships of the Newfoundland Escort Force had nine weeks of intensive training – likely more than most other new RCN crews at that stage in the war. This included doing patrols and anti-submarine sweeps around the entrance to Halifax harbour, as well as training to use the weapons mounted on board the ships. A submarine of the Royal Netherlands Navy operating out of Halifax provided a live target to help train the ASDIC operators and improve their ability to recognize and track submarines and distinguish them from other objects such as whales or schools of fish.<sup>68</sup>

Three Canadian corvettes of the Newfoundland Escort Force in Halifax in May 1941. From closest to furthest are HMC Ships Collingwood, Cobalt, and Chambly. In the background, a British merchant ship is leaving the harbour to join a convoy. (Credit: Department of National Defence. Photo has been digitally restored by the author.)



<sup>&</sup>lt;sup>68</sup> Marc Milner (2009). The Training Gap: Navy, Part 31. Legion Magazine. https://legionmagazine.com/en/the-training-gap-navy-part-31/

Ships of the Newfoundland Escort Force on May 24, 1941, heading for St. John's Newfoundland. The photo was taken from HMCS Chambly, and the closest two ships are HMCS Orillia and HMCS Cobalt. (Credit: Library and Archives Canada—PA037447)



The Cobalt and her crew still had a long way to go to be a fully effective warship in the fight against the U-boats, but this was a good start. The Cobalt went on to serve for six months escorting convoys between St. John's and Iceland. Beyond Iceland, the escort duties were taken over by ships based out of the United Kingdom.

At the end of her time with the Newfoundland Escort Force, the Cobalt was sent to Liverpool, Nova Scotia for three months for a refit to repair damage from her first year of service and make various upgrades. The refit was completed in January 1942 and the Cobalt then made two crossings to Londonderry in Northern Ireland – the only two times that the Cobalt would go all the way across the Atlantic to the United Kingdom.

Approaching St. John's, taken from the Cobalt, likely in 1941. The tower atop Signal Hill on the north side of the harbour entrance provides a distinctive landmark. In the left foreground is one of the old US Navy destroyers, possibly HMCS Columbia since she was also part of the Newfoundland Escort Force. On the right is another corvette. (Credit: The Bunker military museum in Cobalt, Ontario. Photo has been digitally restored by the author.)



Colourized photo taken as the Cobalt was entering the harbour in St. John's Newfoundland. (Credit: Collection of Edmund Ferris, www.forposterityssake.ca. Photo was digitally restored by the author and colourized using www.palette.fm)



*Three corvettes in St. John's harbour, likely early in 1942. (Credit: Collection of Lt W. Ralph Moxley, www.forposterityssake.ca)* 



*HMCS Cobalt in Iceland in November 1941. (Credit: Source: Imperial War Museum Official Admiralty Collection Photographer: Lt C.H. Parnell. Photo has been digitally restored by the author.)* 



An officer on the deck of HMCS Cobalt, likely in Iceland. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



HMCS Cobalt in Liverpool, Nova Scotia for refit in early 1943. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



In May 1942, the Cobalt began serving as part of the Western Local Escort Force, based in Halifax. This Force was established after the US entered the war in December 1941, during a period of intense U-boat activity along the east coast of North America, particularly off the coast of the US but also Canada, including the Gulf of St. Lawrence. HMCS Cobalt and other ships on the Force, primarily Canadian, escorted convoys between North American ports such as New York, Boston, and Halifax, and as far south as the Caribbean. They also escorted the convoys as far east as Newfoundland, where ships of the Mid-Ocean Escort Force took over.

The Cobalt remained part of the Western Local Escort Force for the remainder of the war. Throughout the war, the Cobalt was involved in escorting more than 100 convoys (Appendix 2). While she was not directly involved in sinking any U-boats, the Cobalt and the men who served aboard her did valuable service.

Colourized photo of a convoy at sea taken from HMCS Cobalt. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author and colourized using www.palette.fm)



Merchant ship at sea taken from HMCS Cobalt. A US Navy blimp flies over. Blimps were used to detect and attack submarines. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



Nova Scotia native Leonard Gaudet served aboard HMCS Cobalt after enlisting in 1943, and recalled his time in a 2019 interview with the Saltwire:<sup>69</sup>

"You were out there on a ship, an easy target and you knew there was somebody looking for you and you just went on to whatever you were assigned to do and if you were attacked, you knew what to do about it." Gaudet added that "You were looking for a black pipe sticking out of the water, or anything as far as that goes. In pitch dark, you still had to do it." Reflecting on being under attack by U-Boats, Gaudet stated that "We didn't know. We just waited for the boom. We didn't know who was going to get it."



Joseph Leonard Gaudet, 1924 to 2021. (Credit: www.forposterityssake.ca. Photo has been digitally restored by the author.)

<sup>&</sup>lt;sup>69</sup> Saltwire Network. October 30, 2019. South Nictaux veteran recounts risky Second World War missions.

#### 9 Cobalt to the Rescue

The dangers of convoy escort duty were made very clear in August 1943, when the Cobalt was escorting convoy HX 252 from Halifax bound for the UK. On the night of August 18/19, the convoy of 56 merchant ships and 4 escorts was about 600 miles east of Halifax when the Steam Ship (SS) J.H. Senior and the SS J. Pinckney Henderson collided in dense fog. The J.H. Senior was a tanker loaded with aviation fuel, with aircraft and aircraft parts stowed on her deck. The J. Pinckney Henderson was carrying a cargo just as dangerous: 10,000 tons of cotton, magnesium, magnesite, glycerine, resin, wax, oil, and other combustibles. Intense fire broke out almost immediately after the two ships collided.<sup>70</sup> In the ensuing chaos, as other ships in the convoy struggled in the fog to avoid the two stricken ships, there were 15 other collisions and the Norwegian ship SS Santos also sank with 37 survivors.<sup>71,72</sup>

One of the Danish crew of the SS J.H. Senior who survived the conflagration later described the incident:<sup>73</sup>

"Sometime after 10 p.m., I was in the messroom playing cards with Messman Eskild Lundsgaard, Able Seaman Sixten Johansson and Junior Engineer Levi Eliassen. I felt a terrific jar. Someone said the ship was on fire, so I ran to my room, grabbed a life jacket and went up on the poop deck ... the galley and messroom were ablaze ... I forced myself through the fire and jumped overboard on the port side, aft."

"The flames were like a torch and burning oil had spread on the water to 100 feet or so from the vessel's side. I swam underwater away from the flames, coming to the surface only to breathe. I was severely burned about the face and hands, but I continued swimming around in the water. Then I ran into Junior Engineer Frank Freundlich, who was badly burned, and we stayed together. Second Engineer Harry Sondergaard finally drifted along on a small life raft and picked us up. Later, one of the lifeboats passed by with Navy gunner Walter A. Gawlick, S1c, and Fireman Sture Wihlborg. I jumped from the raft and they pulled me in."

<sup>&</sup>lt;sup>70</sup> Details of this account are from an RCN press release available in the archives of the Department of National Defence.

<sup>&</sup>lt;sup>71</sup> United States Federal Maritime Board. 1951. Report of the Federal Maritime Board and Maritime Administration. Washington, D.C.

 $https://books.google.ca/books?id=2\_BGAQAAIAAJ\&printsec=frontcover\&source=gbs\_ge\_summary\_r\&cad=0 \\ \label{eq:google_cab} w = 0 \\ \label{eq:google_cab} w =$ 

<sup>&</sup>lt;sup>72</sup> Notes on Convoy HX 252 and Commodore Rear Admiral R. M. King's Narrative. http://www.warsailors.com/convoys/hx252narrative.html

<sup>&</sup>lt;sup>73</sup> *Ships of the Esso Fleet in World War II*, an official history of the wartime tankers operated by the Standard Oil Company of New Jersey. https://www.armed-guard.com/ag77.html

Five survivors from the SS J.H. Senior and four from SS J. Pinckney Henderson were picked up by the Rescue Ship Bury and taken to St. John's for treatment of severe burns.<sup>74,75</sup>

Moments after the collision, the Cobalt's ASDIC operator reported hearing a torpedo "whiz down the side" and then picked up an ASDIC contact. The Cobalt carried out four depth charge attacks and was joined by the Bangor-class minesweeper HMCS Lachine on the orders of the senior officer of the convoy escort, aboard HMS Montgomery. The Cobalt and Lachine continued their attacks for over 24 hours, leaving the Cobalt with just 10 depth charges.<sup>76</sup> During the battle, the still-burning and crewless tanker was left abandoned.

Acting Lieutenant Commander Ronald Judges, the commanding officer of the Cobalt, later said that:

"By mid-afternoon [on August 20], it appeared that we had driven off the U-boats for the time being or put at least one out of action. At any rate there were no new [ASDIC] contacts and we decided to have a look at the tanker."

Judges concluded that the tanker "looked salvageable" and sent a boarding party of three volunteer crew members to the tanker with firefighting equipment. The boarding party was led by Mate Alfred Bett who said:

"We found the loading hatches blazing, but once we got the extinguishers going we made steady progress. In two hours, we had the fires out. Everything above the main deck was burned out, but when the fires were out we discovered that we had saved more than 80 percent of the cargo of gasoline and by the time we left the ship she was ready to be towed into port."

<sup>&</sup>lt;sup>74</sup> Many convoys included a dedicated rescue ship, whose role was to pick up survivors of sinking ships while the rest of the convoy and its escorts continued onwards. Frequently, these were converted merchant ships, chosen to have enough space to accommodate large numbers of survivors. The Bury was fitted with platforms to help bring survivors on board and she had two motorized lifeboats that could be launched to help recover survivors. There was a sick bay with two surgeons, and the ship carried supplies of blankets and clothing. During the war, the Bury rescued 237 survivors.

https://en.wikipedia.org/wiki/SS\_Bury

<sup>&</sup>lt;sup>75</sup> *Ships of the Esso Fleet in World War II*, an official history of the wartime tankers operated by the Standard Oil Company of New Jersey. https://www.armed-guard.com/ag77.html

<sup>&</sup>lt;sup>76</sup> Notes on Convoy HX 252 and Commodore Rear Admiral R. M. King's Narrative.

http://www.warsailors.com/convoys/hx252narrative.html

Sadly, the boarding party also found the remains of 10 members of the tanker's crew who had been trapped in the galley and unable to escape the flames. In total, 68 merchant sailors from the two ships were killed. In addition, each ship carried a complement of US Navy Armed Guard who manned guns mounted on each of the ships. In total, 31 from the US Navy Armed Guard were also killed. A tragic night indeed.<sup>77,78</sup>

The SS J.H. Senior was successfully towed back to Bay Bulls, Newfoundland. She was subsequently towed to Halifax where her cargo was recovered, and then she was towed on to New York. She was eventually repaired and returned to service in 1950.<sup>79,80</sup>

For this action, the commanding officer of HMCS Cobalt, Acting Lieutenant Commander Ronald A. Judges, was mentioned in dispatches, and the following was published in the *Canada Gazette* on January 8, 1944:

"Acting Lieutenant Commander Judges, as Commanding Officer of HMCS Cobalt showed a fine fighting spirit and great skill and determination in the handling of his ship, laying it alongside a blazing tanker with a cargo of gasoline. It was due to his inspiration, leadership and bravery that he and his ship's company were able to save this valuable ship from total loss by putting out the fires."

# Only 9 on 2 Ships Survive Collision

All but nine members of the crews of the Liberty ship J. Pinckney Henderson and the tanker J. H. Senior perished in fires and explosions when the two ships collided at sea in a dense fog, setting off flames and blasts that burned and detonated for three weeks, it became known yesterday.

The Henderson was loaded to capacity with combustibles of the highest inflammability, including glycerine, resin, wax, oil, bales of cotton, and tons of magnesium and magnesite. The Senior was carrying high octane aviation gasoline.

Only three of the seventy-two merchant seamen on the Liberty ship survived, for it was impossible even to lower a lifeboat. Six men escaped from the Senior and were rescued. The hulk of the Henderson has been returned to New York Harbor. None of her welding showed any cracks in spite of the holocaust, Todd Shipyards Corporation announced.

> Ehc New Hork Eimes Published: March 13, 1944 Copyright © The New York Times

<sup>77</sup> https://www.armed-guard.com/ag77.html

<sup>78</sup> http://www.dvrbs.com/monuments/lindenwold/LindenwoldWW2-GeorgeWDemarest.htm

<sup>&</sup>lt;sup>79</sup> http://www.aukevisser.nl/inter/id1184.htm

<sup>&</sup>lt;sup>80</sup> http://www.aukevisser.nl/inter/id154.htm

Message sent to HMCS Cobalt after the salvage of HMCS Cobalt. (Credit: Library and Archives Canada, RG24, Volume 6901.)

M.C.S. COMALT	NAVAL MESSAGE	5. 1320 H 15000M-4-43 (9328-9-30) N. S. 815-9-1320-H. From: W 6
V CNS ACNS DOD DSD DNI D OF P DWT	OUR GROUP 18 YOUNG IN A YOUR INSPIRING IXAMPLE SEAMANSHIP HAS GIVEN UN ALL DO OUR BRET TO BE W WELL DONE R.M.C.S. COB	18910-531/2-5 EXPERIENCE BUT OF DETERMINATION AND S A LEAD OF WHICH WE SHALL WORTHI. 2022262
199691	PASSED TO N.S.H.Q. FOR T/T CYPHER 2	INFORMATION.

Mate Alfred Bett who led the boarding party, and who would later serve as commanding officer of the Cobalt, was awarded the George Medal.<sup>81</sup> The citation in the *Canada Gazette* said:

"This Officer led a volunteer boarding party to S.S. J.H. Senior, an American tanker with a full cargo of gasoline, which was stopped and heavily after after collision in fog on 18 August 1943, in order to save this very valuable ship and her cargo, this Officer and his party fought the fires for over two hours with hand extinguishers, although they knew the ship was in danger of blowing up at any moment. During this time, he showed complete

<sup>&</sup>lt;sup>81</sup> The George Medal was granted to recognize "acts of great bravery". It was introduced in 1940 by King George VI as a way to recognize acts of bravery by civilians such as fire fighters and ambulance drivers during the German bombing of Britain and Northern Ireland. It could be given to civilians who did not qualify for military medals and to members of the military in cases where their actions would not qualify for military honours, such as actions that were not related to combat or to enemy action. Since the collision of the ships was an accident and not the result of enemy action, Betts was awarded this medal for his act of bravery.

disregard for his own safety, and his leadership was an inspiration and example of bravery and devotion to duty in keeping with the highest traditions of the service."

Engine Room Artificer Fourth Class James Werely and Signalman Michael Fitzgerald were both awarded the British Empire Medal.

An RCN press release from March 22, 1944, recounting the story and announcing the citations, is provided in Appendix 6, along with other newspaper articles related to the Cobalt.



Acting Lieutenant Commander Ronald A. Judges. (Credit: Collection of Ronald Judges, courtesy of Chanin Graham, personal communication with the author.)

> CENTRAL CHANCERY OF THE ORDERS OF KNIGHTHOOD. St. James's Palace, S.W.I. Ist January, 1944. The KING has been graciously pleased, on the advice of His Majesty's Canadian Ministers, to approve the award of the George Medal to:--

Temporary Mate Alfred William Bett, Royal Canadian Naval Reserve. *Photo of the burning tanker, the SS J.H. Senior, taken from HMCS Cobalt before the firefighting crew boarded her. (Credit: Department of National Defence. Photo has been digitally restored by the author.)* 



*The J.H. Senior being towed to Newfoundland after the fire was put out. (Credit: Department of National Defence. Photo has been digitally restored by the author.)* 



The fire ravaged deck of the SS J.H. Senior after she had been towed back to New York in the fall of 1943. (Credit: http://www.aukevisser.nl/inter/id154.htm)



The other ship that was involved in the collision, the Liberty Ship SS J. Pinckney Henderson, drifted in the Atlantic for two weeks before the still-burning hulk was found by HM Rescue Tug (HMRT) Griper.<sup>82</sup> The crew of the Griper managed to attach a tow line, and the ship was towed to Sydney, Nova Scotia where she continued to burn. There were concerns among residents about a serious explosion like the one that had devastated Halifax in December 1917. However, the ship's cargo, while highly flammable, posed a low risk of a major explosion. The decision was made to try to salvage the ship and some of its cargo and to recover the remains of sailors who had died aboard the ship.<sup>83</sup> There was little left by the time the fires had finally burned themselves out - marine surveyors who inspected the ship said it was the most completely gutted hulk they had ever seen.<sup>84</sup>

In September 1943, a ceremony was held in Sydney for the burial of the remains of 34 sailors who were recovered from the SS J. Pinckney Henderson.<sup>85</sup> A memorial marker was erected that read "U. S. Liberty Ship J.P. Henderson, September 3, 1943. Here lie the remains of officers and crew members, naval and merchant, who lost their lives while serving their country. All members buried with full naval honors."

<sup>&</sup>lt;sup>82</sup> Ian Dear. 2016. The Tattie Lads – The untold story of the Rescue Tug Service in both wars and its battles to save ships, lives and cargoes. Bloomsbury Publishing, London.

https://books.google.ca/books?id=\_WQdDAAAQBAJ&pg=PA178&lpg=PA178&dq=convoy+hx+252&source=bl&ots=eU MrneYynu&sig=ACfU3U30bERggVibXxWEyyLPFm3N6RMErg&hl=en&sa=X&ved=2ahUKEwij\_u-

V O6BAxXeFFkFHSVAA684FBDoAXoECAIQAw#v=onepage&q=convoy%20hx%20252&f=false

<sup>&</sup>lt;sup>83</sup> The Saltwire. Liberty ship had been on fire for six days. October 2, 2017. https://www.saltwire.com/cape-

breton/opinion/liberty-ship-had-been-on-fire-for-six-days-20430/

<sup>84</sup> https://www.armed-guard.com/ag77.html

<sup>&</sup>lt;sup>85</sup> https://img1.wsimg.com/blobby/go/1b1a5d7a-b5df-4d9c-a035-

<sup>9</sup>a3b8205312f/downloads/Derick%2C%20Robert.pdf?ver=1644851016422

In 1949, the remains were returned to the US and we re-interned at the Jefferson Barracks National Cemetery in St. Louis, Missouri. In the 1960s, the memorial marker was returned to the US, and it now stands at the US Merchant Marine Academy in Kings Point, New York.<sup>86</sup>

Following the war, the Government of Canada made a claim for salvage services for the salvage of the J.H. Senior's cargo. The claim was made on behalf of HMCS Cobalt and her crew. The last correspondence on this matter that the author was able to obtain, dated June 17, 1948, stated that this matter was still under consideration.<sup>87</sup>

There is no further information on the fate of the Canadian claim. However, Ronald Judges ended up receiving a cheque from the government for \$67 for his actions regarding the tanker rescue ... in 1965! When he received it, he didn't even know what the money was for – he only found out later that it was a reward. He used the money to pay for his daughter and her boyfriend (and future husband) to go to dinner and a Montreal Alouettes football game.<sup>88</sup>

There is a record of a second member of the Cobalt's crew also receiving a reward. Frank DeMoor from Wallaceburg, Ontario, was a cook aboard HMCS Cobalt. In 1951, he received a cheque for \$9.95 his share of the reward for helping to save the tanker.<sup>89</sup>

Although the author cannot confirm this, it is possible that the money received by both Judges and DeMoor was part of a settlement finally reached by the Government of Canada associated with the salvage of the J.H. Senior's cargo. If so, it is very odd that they apparently received their rewards 14 years apart!

As a result of the chaos that night, a post-incident investigation was conducted by the Commodore First Class H.E. Reid, RCN, the Flag Officer, Newfoundland, to understand the cause of the many collisions that occurred, and to determine whether or not German U-boats had attacked the convoy. This investigation included interviews with survivors of the J.H. Senior and two other ships involved in collisions, and crew members of HMC Ships Cobalt and Lachine, as well as examination of radio data. Clearly, the commanding officers of both ships thought that the convoy had been under attack. The Senior Officer of the convoy, aboard HMS Montgomery, shared this view and had ordered the Lachine to join the attack. Frank DeMoor of HMCS Cobalt also related a story of having been under attack that night, recalling that "The tanker caught fire and could be seen for miles. It just so happened that HMCS Cobalt picked up the sound of a torpedo heading towards their ship. The Captain manovere [*sic*] the ship out of

<sup>&</sup>lt;sup>86</sup> http://southerngreens.blogspot.com/2008/09/they-tried-to-bury-this-memorial.html. This article states that "Canadian sailors who recovered the bodies from the burning ships were also the burial party."

<sup>&</sup>lt;sup>87</sup> Library and Archives Canada, RG12, Volume 1235.

<sup>&</sup>lt;sup>88</sup> Chanin Graham, granddaughter of Ronald Judges and daughter of the couple who enjoyed their night out, personal communication with the author.

<sup>89</sup> https://www.gatheringourheroes.ca/hero/demoor-frank/

harms was [*sic*] and for a time the U-Boat was being attacked."<sup>90</sup> The convoy commodore, Rear Admiral R.M. King of the Royal Navy, also thought the convoy had been under attack.<sup>91,92</sup>

However, Commodore Reid concluded that "On the whole, it is felt the evidence points to the fact that no submarine was in the vicinity, and the whole occurrence was the unfortunate result of a series of collisions in very low visibility at night."<sup>93,94</sup> His report also stated that "In all the circumstances, the Senior Officer Escort cannot be blamed for assuming that the convoy had been attacked. As far as he was concerned everything pointed to this, except that no explosions were heard until the corvettes [Cobalt and Lachine] started attacking." That said, Reid also stated that "The matter of A/S [anti-submarine] fighting efficiency of the two corvettes is being dealt with by separate submission." Clearly, there were some lessons to be learned.

Ultimately, the events that happened to convoy HX 252 were a case of the fog of war, both literally and figuratively, with tragic consequences.

<sup>90</sup> https://www.gatheringourheroes.ca/hero/demoor-frank/

<sup>&</sup>lt;sup>91</sup> Notes on Convoy HX 252 and Commodore Rear Admiral R. M. King's Narrative.

http://www.warsailors.com/convoys/hx252narrative.html

<sup>&</sup>lt;sup>92</sup> Each convoy had a commodore who was in charge of the overall conduct of the merchant ships in the convoy. Convoy commodores were typically retired senior naval officers. Most were with the Royal Navy or the Royal Navy Reserve, although there were a few Canadians. Although usually retired naval officers, convoy commodores were not responsible for the escort ships. https://en.wikipedia.org/wiki/Convoy\_commodore

<sup>&</sup>lt;sup>93</sup> http://www.warsailors.com/convoys/hx252page4.html

<sup>&</sup>lt;sup>94</sup> After the war, a review of German records confirmed that no U-boat attacks were reported on the dates in question, August 19 and 20, 1943. http://www.warsailors.com/convoys/hx252page4.html

#### 10 Man Overboard!

During one convoy escort duty Able Seaman Milton Whymark from Oakwood, Ontario jumped overboard to avoid being pinned by one of the Cobalt's boats that was swinging in the rough seas. Fortunately, Whymark was wearing one of the excellent life jackets supplied to crews of Canadian ships. Unfortunately, it was very foggy.

The ship's boat was launched in the hopes of rescuing Whymark, crewed by the ship's second in command, referred to as No. 1. Roland Judges, who was still the Cobalt's commanding officer at the time, said that:

"We'd never have found the chap but for the whistle attached to his life belt. There's a whistle on every belt, and we all wear life belts when we're at sea, all the time. The man kept blowing his whistle, and the No. 1 kept blowing his, and the man was located fairly quickly – even though you couldn't see your hand in front of your face. They got back safely to the ship, finding it by our siren, and the only casualty was the sea boat. It got battered in and was no use salvaging."

Whymark later told a reporter with the Toronto Telegraph, "The guy who thought of putting whistles on life belts is tops with me. I was in the water maybe half an hour, long enough to find out it was darned cold. But I was lucky."

Sadly, Milton Whymark did not survive the war. He later transferred to the corvette HMCS Shawinigan.<sup>95</sup> Early in the morning of November 25, 1944, the Shawinigan was in the Cabot Strait between Sydney, Nova Scotia, and Port-aux-Basques, Newfoundland, when she was torpedoed and sunk by a German U-boat. There were no survivors.<sup>96</sup>

 <sup>&</sup>lt;sup>95</sup> Kawartha Lakes Public Library. https://vitacollections.ca/kl-digitalarchive/2482372/data?n=89
<sup>96</sup> http://www.forposterityssake.ca/Navy/HMCS\_SHAWINIGAN\_K136.htm

Milton Whymark posing by the ship's gunshield, wearing his life belt and showing off the whistle that helped save his life. (Credit: Department of National Defence. Photo has been digitally restored by the author.)



Headline of an article from the Toronto Telegram, published on November 20, 1943. (Credit: Department of National Defence)



#### 11 Friendly Fire?

On the morning of December 13, 1944, the Cobalt sailed from St. John's with HMC Ships Galt and Lethbridge, heading out into the North Atlantic to take over escort of convoy ONS 037 which had left Belfast on November 29, bound for Halifax and New York City.<sup>97,98</sup> The Cobalt only made it about 50 miles before she had to return to St. John's for a minor repair. She left again shortly after midnight on the morning of the 14<sup>th</sup> only to have to return shortly after leaving the harbour when a young local boy was discovered stowed away on a Fairmile motor launch that was accompanying the Cobalt. For the third time, the Cobalt departed St. John's, now heading out to sea at full speed to catch up with the Galt and the Lethbridge.

Soon after leaving the harbour, the Cobalt's radar operator picked up a contact at a range of about 8,000 yards. Although the operator noted that the contact might be another escort ship, the Cobalt's captain, Acting Lieutenant Commander Ralph Wallace had not been notified of any other escorts in the area but was aware that a submarine had been reported in the area a couple of days before. As the contact closed to about 4,000 yards, Wallace decided it was time to take action. It was a clear night with no fog, unusual to be sure, but it was very dark with almost no moonlight (the new moon was the next night), and observers peering into the night could not see anything in the direction of the contact.

In the meantime, not far away was the minesweeper, HMCS Burlington. The Burlington's radar operator has also picked up a contact. As the contact came closer, the crew of the Burlington on watch saw the flash of an explosion and then, moments later, the sound of a gun firing boomed out across the water. Seconds later, a lookout at the stern of the ship saw the splash of a shell landing in the water about 150 yards astern of the ship. The Burlington was under fire! Action stations were called and the ship's captain, Lieutenant John Richardson raced to the bridge. By the time he arrived, a second flash of gunfire had been seen. Moments after he got to the bridge, there was a bright flash as a star shell exploded over the Burlington. Star shells are used to illuminate a battlefield at night.

Back in St. John's the next day, Richardson would report that the Burlington had come under fire from high explosive shells before the star shell was fired.

Back on the bridge of the Cobalt, Wallace had ordered star shells to be fired. The first two appeared to have failed to explode. He ordered three more star shells fired in the direction of the contact. These ones exploded as intended, lighting up the night sky. The silhouette of a ship, not a submarine, appeared out of the dark. Moments later, a star shell exploded over the Cobalt, bathing the ship in light.

<sup>&</sup>lt;sup>97</sup> This information, and the balance of the account of the events of December 13 and 14 is based on the Minutes of the Proceedings of Board of Inquiry Held on Board H.M.C.S. Coaticook, Halifax, at 1030 on the 3rd of January 1945. Library and Archives of Canada – RG24, Volume 11111.

<sup>&</sup>lt;sup>98</sup> http://www.warsailors.com/convoys/onsconvoys.html

HMCS Burlington. (Credit: www.forposterityssake.ca)



The Cobalt then used its signal lamp to send a message challenging the other ship – a standard procedure to identify friendly ships at night. The ship – the Burlington – responded appropriately. There was no enemy submarine. Two Canadian escorts had blundered across each other in the pitch-black darkness, the Cobalt rushing to catch up with the Galt and the Lethbridge, and the Burlington, patrolling outside the harbour entrance (minesweepers like the Burlington were also equipped to detect and attack submarines).

A few more messages were exchanged by signal lamps, and then the Cobalt accelerated back to full speed and rushed off into the night. She finally caught up with ONS 037 and helped shepherd the convoy safely to New York, arriving on December 21.

Back in St. John's, Richardson was livid, believing he had come under fire from the Cobalt. He immediately filed a report. By December 16 his report had made it up the chain of command, and the Flag Officer for Newfoundland, Commodore Cuthbert Taylor, sent a terse message to Rear Admiral Leonard Murray, the Commander in Chief, Canadian Northwest Atlantic.<sup>99</sup>

Based on Richardson's account of the apparent friendly fire incident, Taylor did not mince words. His message to Murray said that Wallace "has shown himself unfit for command and a definite menace on the high sees". He added, clearly for effect, that "I would strongly recommend his immediate relief and appointment to a Naval Division no closer to the sea than Winnipeg."<sup>100</sup> Ouch!!

Murray wisely ordered a Board of Inquiry to get to the bottom of what happened in the dark that night. The Inquiry was held in St. John's on January 3, 1945, aboard HMCS Coaticook, with the Board

<sup>&</sup>lt;sup>99</sup> Murray was the only Canadian to command a theatre of war during the Second World War. He had command of all Allied ships within the northwest Atlantic, not just Canadian ships.

<sup>&</sup>lt;sup>100</sup> Letter from Commodore C.R.H. Taylor to Rear Admiral L.W. Murray, dated December 16, 1944. Library and Archives of Canada – RG24, Volume 11111.

consisting of the commanding officers of the Coaticook as well as HMC Ships Fort Erie and Belleville. They called as witnesses the commanding officers of both the Cobalt and the Burlington, as well as the Cobalt's gunnery officer and gun crew, radar operator and others who were on the bridge, as well as the Burlington's radar operator and crew who had been on lookout at various positions around the ship.

It soon became apparent to the Board that the Cobalt had not fired on the Burlington. The Cobalt's gun crew had fired five star shells to identify the contact. However, for unexplained reasons, the first two star shells had failed to explode, and one landed in the water close enough to the Burlington for the splash to be seen by observers on watch. It was the unexploded star shell that the crew of the Burlington thought was a high explosive round.

The Board concluded that "under the circumstances of the radar contact, H.M.C.S. Cobalt was ill-advised to illuminate with star shell, because of the range at which the contact was established, because of the classification as a possible escort by the radar operator, and because a proper challenge, justifiable under the circumstances, would have identified the target as friendly."

Wallace and the Cobalt got some level of vindication for the original comments by Commodore Taylor in April 1945, when the Cobalt was inspected by Lieutenant Commander A. Moorhouse. Moorhouse was the commanding officer of HMCS Sault Ste. Marie and was the senior officer of the escort group that the Cobalt was part of. This inspection was an outcome of the Board of Inquiry and was ordered by Rear Admiral Murray, "with particular attention being paid to his [Wallace's] suitability for retention in his present command."<sup>101</sup>

Speaking of Wallace, Moorhouse concluded that "In my opinion a good Commanding Officer and I am inclined to think he is the best in W-7 Group. May be a shade erratic but this is offset by his obvious willingness; for instance, if a situation arises which requires some action Cobalt can usually be relied upon to be on his way to assist before a signal can be got out ordering him to do so." In the report to Rear Admiral Murray, Captain Puxley added that "Report from the Tactical Unit … describes the ship and the officers as 'well above average'."<sup>102</sup>

Ultimately, a message from June 4, 1945, states that no disciplinary action against the Cobalt's commanding officer was contemplated.<sup>103</sup> So much for "an appointment to a Naval Division no closer to the sea than Winnipeg."

But of course, by then it was a moot point. The war in Europe was over, and two weeks after that message was issued, the Cobalt was decommissioned in Sorel, Quebec. For the ship and most of her crew, the war was over. Acting Lieutenant Commander Ralph Wallace may never have been sent to a naval posting no closer to the sea than Winnipeg, but he may well have returned to his pre-war job as a florist in Saskatoon.

<sup>&</sup>lt;sup>101</sup> Letter from Rear Admiral Murray to Acting Captain W.L. Puxley, Captain (D) Halifax, April 4, 1945. Library and Archives of Canada – RG24, Volume 11111.

<sup>&</sup>lt;sup>102</sup> Report of inspection by Lieutenant Commander A. Moorhouse to Rear Admiral Murray, April 13, 1945. Library and Archives of Canada – RG24, Volume 11111.

<sup>&</sup>lt;sup>103</sup> Memorandum to Rear Admiral Murray, June 4, 1945. Library and Archives of Canada – RG24, Volume 11111.

### 12 HMCS Cobalt – the Cobalt Connection

In the fall of 1940, the town of Cobalt was informed that the ship would be named after the town. The commanding officer of the Cobalt, Lieutenant Commander R.B. Campbell wrote a letter to Cobalt's mayor, H.W. Rowdon. This letter, which was read to the Town Council on November 1, stated that the ship was almost complete and ready for duty. Campbell's letter said that it would be "a happy gesture" if representatives of Cobalt could be present "before the ship proceeded into active service". Records of the Town Council meeting state that Campbell requested "the Mayor and Council to be present at the launching of this ship."<sup>104</sup> Undoubtedly, Campbell (or the person recording the minutes of the Town Council meeting) meant commissioning of the ship, since the ship had already been launched, but the invitation was clear. Mayor Rowdon responded, offering his good wishes on behalf of the town to HMCS Cobalt and all who would sail in her, and noted that the Cobalt would be a "useful addition" to Canada's naval strength.<sup>105</sup>

Neither the mayor nor any of the town councilors from Cobalt were able to make the journey to Port Arther for the commissioning. However, just a few weeks before, the Algonquin Regiment had arrived at the Current River Barracks in Port Arthur for training.<sup>106,107</sup> The Algonquin Regiment was an infantry unit that drew members from across northern Ontario, including Cobalt. Thus, there were several Cobalters on strength with the regiment who were just a short distance from where HMCS Cobalt was soon to be commissioned. A happy coincidence that set the stage for Campbell's "happy gesture".

Mayor Rowdon wrote to Captain A.R. (Bob) Herbert, an officer with the regiment from Cobalt, asking if Herbert and other Cobalters in the regiment could represent the town at the commissioning of HMCS Cobalt later in November.<sup>108</sup> Represent they did.



The soldiers of the Algonquin Regiment hosted the ship's crew for a banquet, as approved by Cobalt Town Council at their November 15 meeting.<sup>109</sup> To reciprocate, the Cobalters went aboard HMCS Cobalt for a short cruise on Lake Superior, followed by some social time. The Cobalters treated the crew to a

<sup>&</sup>lt;sup>104</sup> Minutes of the meeting of the Municipal Council for November 1, 1940.

<sup>&</sup>lt;sup>105</sup> Temiskaming Speaker, November 7, 1940.

<sup>&</sup>lt;sup>106</sup> Charlie Angus and Brit Griffen. 1996. *We Lived a Life and Then Some: The Life, Death, and Life of a Mining Town*. Between The Lines. Toronto, Ontario

<sup>&</sup>lt;sup>107</sup> Ontario Ministry of Natural Resources (2012). Thunder Bay Native Fisheries Rehabilitation – Chronology of Development of the Current River.

<sup>&</sup>lt;sup>108</sup> Temiskaming Speaker, November 7, 1940

<sup>&</sup>lt;sup>109</sup> Minutes of the meeting of the Municipal Council for November 15, 1940. The motion stated that "the action taken by the Mayor authorizing Captain Herbert in entertaining the crew of H.M.C.S. Cobalt with a banquet be ratified." The minutes do not mention whether the town paid for the banquet.

rousing rendition of "The Cobalt Song".<sup>110</sup> And thus, the link between HMCS Cobalt and the town of Cobalt was forged. The ship was commissioned into service on November 25 with some of the Algonquins present.

Some of the Cobalters from the Algonquin Regiment, including (centre) Captain A.R. (Bob) Herbert. Herbert served with the Algonquins throughout the war and after returning to Cobalt after the war he entered politics. He was on Cobalt town council and then served three terms as a member of the provincial legislature for Temiskaming. (Credit: photo is from the Cobalt Mining Museum and has been digitally restored by the author. Thanks to Maggie Wilson of the Cobalt Historical Society for confirming the identification of Herbert in the photo and providing additional biographical details.)



<sup>&</sup>lt;sup>110</sup> Temiskaming Speaker, November 28, 1940

HMCS Cobalt - Cobalt's Namesake Goes to War

When the Cobalt headed east to Halifax, she also carried a little piece of Cobalt with her. The Mayor and Council had decided to gift the ship with a souvenir. On behalf of the town, the Cobalters from the Algonquin Regiment presented Lieutenant Commander Campbell with a desk pen set with a large piece of polished ore attached to it with an inscription that said "Luck charm of silver-cobalt-nickel ore from the La Rose Mine; presented to H.M.C.S. Cobalt by the Town of Cobalt, Ontario, Canada; November, 1940".<sup>111</sup> A few years later, in a 1943 article in the Toronto Telegram about the Cobalt and her then commanding officer, Acting Lieutenant Commander Ronald Judges from Toronto, the article mentioned that the pen set was on the desk in Judges' cabin.<sup>112</sup>

Soon after the Cobalt was commissioned, the town was provided with a large photo of HMCS Cobalt to hang in the council chamber in the Cobalt town hall. Captain Herbert from the Algonquin Regiment also sent photos of the ship being launched.<sup>113</sup>

In April 1942, a letter was sent to Mayor Taylor of Cobalt, informing him that another photo was on the way, and informing the mayor of how to obtain additional information about the ship.<sup>114</sup>

Article from the Haileyburian, November 28, 1940, From the War Diary of the Algonquin Regiment, November 1, 1940 to November 30, 1940. Library and Archives Canada, RG24, Volume 14997.



H.M.C.S. Cobalt, one of the latest additions to the Canadian navy, is now in commission on the Great Lakes and men of the Algonquin Regiment, now stationed at Port Arthur, who have their homes in the famous silver camp have been for a trip on the new ship, according to a report to the home town by Capt. A. R. Herbert, officer commanding the headquarters company of the regiment.

The town had been advised some weeks ago of the impending launching of the vessel and had arranged for the soldiers to represent the municipality in any ceremonies that might be held in that connection. Capt. Herbert and Lieuts. Cassidy, Robertson and McLeod did the honors on the trip, it was learned, and all others members of the regiment from Cobalt were invited. The army and navy spent a social time following the trip and all thoroughly enjoyed the unusual entertainment.

In the meantime, the town of Cobalt has in course of preparation a present for the officer commanding the ship. This is in the form of a desk pen set mounted on a piece of ore, which bears the folowing inscription, suggested by Mr. A. A. Cole, mining engineer for the T. & N.O. Railway: "Luck Charm of Silver-Cobalt-Nickel from LaRose Mine, presented to H.M.C.S. Cobalt by the Town of Cobalt, Ontario, Canada November, 1940." It is being made up in Toronto, where Hugh Sutherland of the LaRose is looking after the work on behalf of the town.

<sup>&</sup>lt;sup>111</sup> Temiskaming Speaker, November 28, 1940

<sup>&</sup>lt;sup>112</sup> Toronto Telegram, November 20, 1943. From the archives of the Department of National Defence.

<sup>&</sup>lt;sup>113</sup> Temiskaming Speaker, December 12, 1940. The photos of the launch must have been official photos from the shipyard or the navy that were provided to Captain Herbert. The Algonquin Regiment was not in Port Arthur at the time that the ship was launched in August 1940.

<sup>&</sup>lt;sup>114</sup> Library and Archives Canada, RG24, Volume 5829

*April 2, 1942, letter to Mayor Taylor of Cobalt. (Credit: Library and Archives Canada, RG24, Volume 5829)* 

April 2, 1942

Dear Mr. Mayor:

Upon the instructions of the Hon. Angus L. Macdonald, Minister of National Defence for Naval Services, there is being forwarded to you under separate cover a picture typical of the corvette, H.M.C.S. "COBALT", and one which you and the Council of Cobalt might care to hang in your Council Chamber or in such place as appears suitable to you.

Any information regarding H.M.C.S. "COBALT" may be obtained by addressing a letter to the undersigned.

Sincerely,

(Walter Gilhooly) Naval Information Officer

C.H. Taylor, Esq., COBALT, Ontario. *Town of Cobalt response to receiving the photo from the RCN, April 15, 1942. (Credit: Library and Archives Canada, R112, Volume 33976)* 


Although this is speculation on the author's part, this letter may have been intended as a gentle "nudge" from the RCN to the Town of Cobalt. In December 1941, the Town of Cobalt donated \$20 to the Cobalt and Coleman Branch of the Red Cross Society as a contribution to broader support being provided to the ship by the Red Cross (see below). However, in reviewing municipal records for the balance of the war, the author did not find any record of other decisions by the Town Council to make contributions to HMCS Cobalt, financial or otherwise. A document prepared on behalf of the commanding officer of HMCS Cobalt in late 1943 or early 1944 regarding sponsorship of the ship indicates that the commanding officer had not had any contact with the mayor.<sup>115</sup>

It is not surprising that the Town of Cobalt itself was not able to make significant contributions to HMCS Cobalt and her crew. The town likely couldn't afford it and could at best make token contributions. In 1941, Cobalt only had a population of 2,376, and neighbouring Coleman Township had a population of just 708.<sup>116</sup> By 1943, the population of Cobalt had dropped below 2,000.<sup>117</sup> In comparison, at the peak of silver mining in 1911, the census put the official populations at 5,638 and 3,131 for Cobalt and Coleman, respectively, with unofficial estimates being higher.<sup>118</sup>

Wartime Cobalt had a much smaller population than many other communities with corvettes and other ships named after them – an inherent limitation in how much support the Town of Cobalt could provide. Cobalt was not the only town with a population of under 5,000 with a ship named after it – others like Camrose, Alberta, and Copper Cliff and Arnprior in Ontario were small too. But many others had populations of greater than 10,000 and some towns and cities were much larger, including major cities like Vancouver, Calgary, and Halifax, all of which also had corvettes named after them.

Cobalt was somewhat unique though – a place known around the world for its fabulous riches that made many people very wealthy – and yet largely destitute. The Town of Cobalt never made any money from the silver mines. Few mines were located within the town boundary, which was quite small, and those that were never paid any taxes to the town.<sup>119</sup> And Cobalt was very much a working-class town. Those who managed to make good money lived elsewhere. Many of the mine managers lived away from the noise and mud of Cobalt along "Millionaires Row" in Haileybury, with views not of the mines but of the tranquility of Lake Temiskaming.

Cobalt had also been hit hard by the Great Depression. Many of the mines had closed even before the crash in 1929, and more closed within the next few years. Cobalt's population declined sharply through the 1930s as people left in search of work, many going north to the gold mines in Timmins and Kirkland

<sup>&</sup>lt;sup>115</sup> Library and Archives Canada, R112, Volume 33976

<sup>&</sup>lt;sup>116</sup> Canada: Dominion Bureau of Statistics. Eight Census of Canada, 1941. Volume II, Population by Local Subdivisions. https://publications.gc.ca/collections/collection\_2017/statcan/CS98-1941-2.pdf

<sup>&</sup>lt;sup>117</sup> Douglas Baldwin. 2016. *Cobalt: Canada's Forgotten Silver Boom Town*. Indigo Press. Charlottetown, Prince Edward Island.

<sup>&</sup>lt;sup>118</sup> Fifth Census of Canada, 1911. Volume II, Religions, Origins, Birthplace, Citizenship, Literacy and Infirmities, by Provinces, Districts and Sub-Districts. https://publications.gc.ca/collections/collection\_2016/statcan/CS98-1911-2.pdf <sup>119</sup> Charlie Angus and Brit Griffen. 1996. *We Lived a Life and Then Some: The Life, Death, and Life of a Mining Town*. Between The Lines. Toronto, Ontario

Lake. By 1937, about one in five Cobalters were on "relief" as the Great Depression's precursor to Employment Insurance was known.<sup>120</sup> Cobalt's always small tax base had grown ever smaller.

When war broke out in 1939, many men in Cobalt enlisted, eager for a steady wage after the difficult years of the Depression. Sending home their paycheques helped put food on the table but didn't leave much to spare.<sup>121</sup> There was some revival of mining as cobalt, a metal associated with the silver ores in Cobalt, became strategically important for the war effort. However, it is little surprise that the Town of Cobalt, always strapped for cash, did not have much to support HMCS Cobalt and her crew.

Despite the Town of Cobalt's limited financial resources to support HMCS Cobalt, the people of Cobalt and the Tri-Town area (composed of Cobalt and the neigbouring towns of Haileybury and New Liskeard) came through for HMCS Cobalt and her crew, living up to Rear Admiral Nelles' statement that "Flowers don't knit mittens."

For Christmas 1941, the Cobalt and Coleman Branch of the Red Cross Society sent parcels to the crew.<sup>122</sup> Earlier in November, the Red Cross Society had sent a letter to the Naval Division of the Department of National Defence in Ottawa, requesting information about the size of the ship's crew so that the parcels could be sent. In a remarkable display of the efficiency of the Department and the 1940s postal service, a response to that letter, sent to a generic address in Ottawa, was on its way back to Cobalt just eight days later!<sup>123</sup>

HMCS Cobalt was officially adopted by the Old Timers of Cobalt.<sup>124</sup> One document indicates that many who donated to the Old Timers of Cobalt were former mine managers, some living in Toronto. It is not clear when this group was formed, but a December 24, 1941, article in the Temiskaming Speaker, the newspaper in New Liskeard, stated that HMCS Cobalt Club had been formed to adopt the ship and support the crew. The article goes on to state that cigarettes and radios were provided for the crew and subscriptions were set up for six magazines to have copies delivered to the crew when the ship was in port. Arrangements were also made to get fruit to the crew, although the ship's commanding officer indicated that it was "scarcely feasible to have this particular comfort, since the corvette is at sea for considerable periods".<sup>125</sup> Minutes of the Cobalt Town Council meeting of February 6, 1942, refer to a letter from the Cobalt Club that was turned over to the Kiwanis Club which was quite active in fundraising during the war.<sup>126</sup>

HMCS Cobalt Club and the Old Timers of Cobalt were either the same group or HMCS Cobalt Club evolved into the Old Timers of Cobalt. An August 26, 1943, article in the Temiskaming Speaker refers to the Old Timers and describes the appreciation of the crew. In the article, Lieutenant John Home of

<sup>&</sup>lt;sup>120</sup> Douglas Baldwin. 2016. *Cobalt: Canada's Forgotten Silver Boom Town*. Indigo Press. Charlottetown, Prince Edward Island.

<sup>&</sup>lt;sup>121</sup> Charlie Angus and Brit Griffen. 1996. *We Lived a Life and Then Some: The Life, Death, and Life of a Mining Town*. Between The Lines. Toronto, Ontario

<sup>&</sup>lt;sup>122</sup> Minutes of the meeting of the Municipal Council for December 5, 1941.

<sup>&</sup>lt;sup>123</sup> Library and Archives Canada, RG24, Volume 5829

<sup>&</sup>lt;sup>124</sup> Library and Archives Canada, R112, Volume 33976

<sup>&</sup>lt;sup>125</sup> Temiskaming Speaker, December 24, 1941

<sup>&</sup>lt;sup>126</sup> Minutes of the meeting of the Municipal Council for February 6, 1942.

HMCS Cobalt spoke of the Old Timers saying, "You may rest assured that if 'Cobalt' is efficient (and it would take a brave man to tell us she is not!), credit must be given to your group in large measure for maintaining morale." In the same article, the commanding officer of the Cobalt at the time, Ronald Judges, is quoted as stating that:

"I found that H.M.C.S. 'Cobalt,' through the kindness and efforts of yourself and others, is extremely well taken care of, and I am quite sure it would not be an overstatement if I said it was the best taken care of ship that is has been my pleasure to serve on since commencement of the war."

A November 20, 1943, article in the Toronto Telegram also referred to the support from Cobalt. The article states that:

"The Town of Cobalt and its citizens have 'adopted' the ship and her company and have given them special radios which can be used at sea without danger of detection by the enemy, gramophone and records, toasters, iron, cigarettes and comforts and goodies galore."

The article also quotes Judges as saying:

"We're certainly well looked after. Between the people of Cobalt, the Navy League and the Red Cross we're properly spoiled. We are well supplied with woollens and, believe me, we really need them out there. Especially when you get wet. Then you need a complete change."

The collection of Library and Archives Canada includes several pieces of correspondence between the RCN and the Old Timers of Cobalt, from 1943 through to the end of the war. Some of these documents are provided on the following pages.<sup>127</sup> These documents provide interesting insights into the important role played by the Old Timers.

<sup>&</sup>lt;sup>127</sup> Library and Archives Canada, R112, Volume 33976

November 18, 1941, letter from the Cobalt and Coleman Branch of the Red Cross Society to the Department of National Defence. (Credit: Library and Archives Canada, RG24, Volume 5829)

Cobalt, Ont. Nov.18, 1941.

The Department of National Defense Naval Division Ottawa, Ont.

NATIONAL DEFENCE 1.01 19 10/1

NS. 172-1-1

Dear Sir:-

(NOW) The Cobalt and Coleman Branch of the Red Cross Society wish to send Christmas parcels to the members of the crew of the Corvette of the Royal Canadian Navy, which has been named after the town of Cobalt. In order that we may be able to do so, we should be very greatly obliged if you could furnish us with information as to the number of men and the address to which the parcels could be sent.

Very truly yours,

Frances Donegan

Mrs. C.J.Donegan Secretary, Cobalt and Coleman Branch, Red Cross Society

Cobalt, Ont.

D. N. P. What is this complement of the bobalh pls. D. W.S.c. 20-11.41

6 officers 50 Ratings C.O. Ames COBALT: Go & leed mail Office Halips WS.

March 11, 1943 letter from the Naval Service Headquarters in Ottawa to the Old Timers of Cobalt. (Credit: Library and Archives Canada, R112 Volume 33976)

450-11-46

Carleton Chambers, 74 Sparks Street,

11th March, 1943.

President, The Old Timers of Cobalt, Box 570 New Liskeard, Ont.

Dear Sir:

Recently, Naval Service Headquarters circularized the ships of this Service in an attempt to find out what organizations have adopted ships and also to find out what approved amenities were needed. The Commanding Officer of H.M.C.S. "COBALT" replied stating that your organization has, in the past, very generously supplied certain amenities.

Perhaps you would be interested in the attached list which shows the equipment which the Commanding Officer would like to have at present. May this office be advised whether or not you could undertake the supplying of any or all of this additional equipment.

The correct mailing address when mailing amenities is to the Commanding Officer, H.M.C.S. "Cobalt", c/o The Special Services Officer, 306 National Harbours Board Building, Halifax, N.S.

It is desired to express the appreciation of this Department for the comforts that you have given the men of this Service.

Yours truly,

Lieut.,

for/ (J.P. Connolly) Captain, Director of Special Services (N).

GKD/JM

R.S.TAYLOR NEW LISKEARD ONTARIO Mar. 26,1943. SPECIAL Lieut. Gordon Daley, ICE SERV for/Capt. J.P.Connolly, (N)Director of Special Services (N) Q Dep't National Defence, Naval Service. Carleton Chambers, 74 Sparks St. Ottawa, Canada. Your Ref: 450-11-46 Dear Sir ; I have your letter of Mar.llth referring to comforts for the H.M.C.S. "COBALT". Please be advised that an express shipment is being made to-day of two electric irons, toasters, This shipment has gone for-80 pkgs. razor blades. ward prepaid to the address included in your letter. I am looking into the possibility of sec uring a phonograph and I presume if one is supplied. a quantity of records would also be necessary. These machines are not very plentiful but I may be able to pick one up either new or second hand. Noting that magazines and books are checked as desirous, it might be noted that our "Cobalt Corvette Fund" is supplying some 15 or more periodicals in duplicate to H.M.C.S. "Cobalt." These were supplied thru the entire year of 1942 and were renewed in Dec. 1942 for the year 1943. Yours ver R.S.TAYLOR/JL.

*March 26, 1943 response from the Old Timers of Cobalt. (Credit: Library and Archives Canada, R112 Volume 33976)* 

March 29, 1943 response from the Naval Service Headquarters, expressing appreciation for the support provided by the Old Timers of Cobalt. (Credit: Library and Archives Canada, R112 Volume 33976)

Carleton Chambers, 74 Sparks Street.

29th March, 1943.

Mr. R.S. Taylor New Liskeard, Ont.

Dear Sir:

Receipt is acknowledged of your letter of the 26th of March re adoption of H.M.C.S. "Cobalt".

It is desired to express the appreciation of the Department and of the crew of the H.M.C.S. "Cobalt" for the many comforts they have received and will receive as a result of your efforts.

Yours truly,

Lieut.,

for/ (J.P. Connolly) Captain, Director of Special Services (N). Letter from the Old Timers of Cobalt, detailing the comforts supplied to HMCS Cobalt. The date is unknown, and the naval made requests for such listings at least three times, in 1943, 1944, and 1945. Note the number of cigarettes per month! (Credit: Library and Archives Canada, R112 Volume 33976)

1200 Dear Sir : Ottawa, Canada. In reply to your query of Feb. 7th, the following is a fairly complete list of comforts supplied by "OLD TIMERS" of Cobalt for the H.M.C.S. "COBALT." VEvery month 10,000 cigarettes. Two subscriptions to about 12 or 14 magazines. Radios - Phonograph - Records Toasters. Firons, An impressive contribution to the welfars of scanel has been made by sponsors in the Games - all kinds. In granne to date. In order to unsess extent of donations thus made, the Baseball gloves, mitts, etc. Washing Machine - electric. Curtains, drapes, etc. for the various wardrooms instituted system of freight notices. It is hoped I not occasion you undue inconveniende The two subscriptions each to the 12 or 14 magazines are renewed by us each year or as they expire. The cigarettes are sent every month from Overseas League Tobacco Fund, Toronto, they cost us \$25. for 10,000.pportunity is taken to express appreliation of sea-coin Please note that this Fund is sponsored by former Cobalt residents now living in Toronto - and is separate entirely from what is donated by the Town of Cobalt. Most of the men donating to this "Old Timers" Club are former mine managers, etc. Old Timers of Cobal If you want more detailed information I will be glad to submit it to you. SECRETARY, NAVAL Yours very truly, H.G. 1010 00 M- 5-43 (7833) N.S. EPR-7-1010 (Miss) Jennie L.Low. Treasurer, "OLD TIMERS" Fund for HMCS "COBALT." BOX 823, NEW LISKEARD, Ont CENTENT 0 Firster REFERRE Lat REC.D' ã

March 27, 1944 letter from the navy to the Old Timers, thanking them for updated information on comforts provided. (Credit: Library and Archives Canada, R112 Volume 33976)

OTTAWA, 27th March. NS 4052-331/25 Madam: Thank you for your recent letter regarding comforts for H.M.C.S. "Cobalt" and for the information contained therein. Please accept the Department's thanks for your kind efforts on behalf of the crew of H.M.C.S. "Cobalt". Young TER dispatched by PERSONNEL NAVAL 1944 C NAVAL BOARD. SECRETARY, Miss Jennie L. Low, Treasurer, "Old Timers" Fund for H.M.C.S."Cobalt", Box 823, NEW LISKEARD, Ontario.

June 15, 1944 letter to the Old Timers, requesting another update on the comforts provided. Presumably, since the comforts were sent directly to the naval dockyard in Halifax (the Cobalt's home port), the naval headquarters in Ottawa was not apprised of each shipment, so these periodic requests for updates were sent. (Credit: Library and Archives Canada, R112 Volume 33976)

N.S. 450-11-46 FD437 Pers (N) 15th June, 1944. MR. R.S. TAYLOR ATTENTION: Sir: Recently circularized to ascertain her current requirements in the way of comforts, H.M.C.S. "Cobalt", whose sponsorship the Old Timers of Cobalt have so generously undertaken, has requested several items. A copy of the completed form is enclosed. If the Old Timers would care to provide any or all of the articles indicated, the Department as well as the crew of H.H.C.S. "Cobalt" would be most appreciative. The opportunity is taken to convey the appreciative thanks of the Department for the continued interest of your organization in providing for the comfort and welfare of the crew of H.M.C.S. "Cobalt". LEGUES daul Soi by PERSONNE NAVAL SECRETARY, NAVAL BOARD. Old Timers of Cobalt, New Liskeard, Ontario. J. P. Connolly CAPTAIN, R.C.N.V.R. Director of special Services (N)

Update on the status of the adoption of HMCS Cobalt, provided by the commanding officer. The document is not dated, but Lieutenant Heward, who signed the document, was second in command of HMCS Cobalt between August 1943 and May 1944 (see Appendix 5). (Credit: Library and Archives Canada, R112 Volume 33976)

From	m: The Commanding Officer, H.M.C.S. Cocalt.	S 500555
To:	The Secretary, Maval Board, Department of National Defence, Ottawa, Ontario.	
1.	Name of Ship H. M.C.S. Cob	ALT.
2.	Base HALIFAX	N.S.
3.	Type of ship CORVETI	5
4.	Complement of ship 90	
5.	Has this ship been adopted?YES .	
6.	If so, by what organization? OLD TIME So MK. R.S. TAYLOR. NEW L	RS OF COBALT. ISKEARD ONT
7.	President or Secretary of Organization MR. R.S. TAYLOR, NEW LISK	EARD ONT
8.	This ship is named after Town of C	OBALT.
9.	The Commanding Officer has been in touc	h with the
	Mayor, Reeve of City or Town with a view to having this Ship adopted	·
10.	The reaction of this official was	
11.	Woollen and perishable goods will be di Supply Officers. Application for such be made to these Officers.	stributed by comforts must
12.	(1) Has anything been received from We	elfare organi-
	zations for this Ship in the past?	yes.
	(2) The articles of equipment listed in been supplied to this ship in the past	n 13A have
13.	This ship could use the articles listed	in 13B for the
	welfare and comfort of the men	es.

	A Nave been supplied	when Rec'd	B Equipment Requested
Phonograph	V		
Ash Trays			····· /
Carpets or Mats			Y
Seamen's Jackets)			
Helmetslother_th	ban		
Dante			
Cribbece Boards			
Checkers	Y		
Dominos	V		
Cards (Playing)			
Dias David			
Chinese Checkers			
Croquinole Boards and Che	ckers		
Jigsaw Puzzles			
Ludo (English Come)			
Candy			
Fudge			
Nut Bars			
Writing Material	~		
Magazines	×		
Cigarettes			
Laundry Soap			
Records (Phonograph)			
Ficture of King and Queen			
Combs			
Crest of City			
Scrubbing Brush			
Scrubbing Basin			
Scrubbing Boards			
Electric Percolator			
Coffee Pot			
Thermos Bottle			
Seving Vits			
Hot Plate			
Waterproof Flashlight			¥
Food (Luxuries)			
Soup			
Apples			
Fruit			
Volley Ball net			
Punch Bag			
Soccer Ball			
Baseball			

	A Have been supplied 'When Equipment Rec'd requested							
Boxi Musi Mout Acco Banj Guit	ng Gloves cal Instruments h Organ ordion ar							
All electrical equipment should be MDCvolts.								
NO MONEY CURRENCY CAN BE GIVEN DERECT TO COMMANDING OFFICERS OF SHIFS.								
14.	It is requested that an Organization be appointed to adopt this ship and that the items mentioned above in 13B be supplied							
15.	It is suggested that the following Organizations might be interested in the adoption of this ship:							
	•••••••••••••••••••••••••••••••••••••••							
16.	The Organization named in #6, as having adopted this ship, is not able to take care of the adoption of this ship adequ- ately, and it is requested that a different Organization be named							
17.	It is requested that you write the Organization named in article 6, requesting that they supply the amenities listed in 13B							
18.	The following articles in addition to the above are con- sidered essential for the welfare and comfort of the crew of this ship.							
Clocks for six messes								
	C. O. Heward heat V							
	H.m. c.S. Cobalt							
	(COLLANDING OFFICER)							

March 7, 1945 letter from the navy to the Old Timers of Cobalt. (Credit: Library and Archives Canada, R112 Volume 33976)

Department	of	National	Defence
Ð		Service	

Ottawa, Canada.

OUR FILE.

YOUR FILE

7th March, 1945.

Dear Sirs:

### RE: ADOPTION OF H.M.C.S. "COBALT"

An impressive contribution to the welfare of service personnel has been made by sponsors in the ship adoption programme to date. In order to assess completely the extent of donations thus made, the Department solicits your assistance with the request that you submit a list of the articles which have been sent to the crew of this ship since you first undertook the sponsorship. This information will enable the Department to check its back records which will then be kept up to date by means of the newly instituted system of freight notices. It is hoped that this will not occasion you undue inconvenience, as this information is of considerable importance to the Department.

The opportunity is taken to express appreciation for your efforts on behalf of the comfort and welfare of sea-going personnel, and to thank you for your co-operation.

Yours truly,

Old Timers of Cobalt, New Liskeard, Ontario.

SECRETARY. NAVA

June 4, 1945 letter from the navy to the Old Timers of Cobalt, informing them that, with the war now ended, HMCS Cobalt was to be decommissioned and that their sponsorship was no longer required. (Credit: Library and Archives Canada, R112 Volume 33976)

NS 4052-331/25 Pers (N).

#### 4th June, 1945.

Sirs:

For three years or more you have generously provided for the welfare of the officers and men of H.M.C.S. "Cobalt". This corvette is now to decommission, and will, therefore, require no further sponsorship.

Without wishing to impose on your generosity, it is suggested that if you would care to carry on your periodic donations to R.C.N. personnel, such shipments as you may make in future may be addressed to the Senior Special Services Officer, 23 North Street, Halifax, N.S. This officer will be responsible for placing the comforts on board ships most in need of such gifts.

The Department of National Defence for Naval Services has appreciated your excellent efforts on behalf of the crew of H.M.C.S. "Cobalt" and would be glad to know of your decision with respect to the continuation of these gifts for the confort and welfare of the officers and men throughout the Service.



Old Timers of Cobalt, New Liskeard, Ontario.

J. P. Connolly CAPTAIN, R.C.N.V.R. Director of Decial Services (N) Apparently separate from the Old Timers of Cobalt and HMCS Cobalt Club was the Cobalt Club of Port Arthur, which also provided 'comforts' to RCN sailors, including knitted woolens, cigarettes, magazines, and 'ditty bags'. The club was named after HMCS Cobalt, which was the first corvette built in Port Arthur, and it also provided comforts to the crews of other corvettes built in Port Arthur: Kenogami, Rosthern, Weyburn, Oakville, Morden, and Algoma. The Cobalt Club was affiliated with the Navy League of Canada, and comforts that were produced, collected, or donated by the Club were distributed by the Navy League. The Navy League also supplied wool for knitting projects, since wool was in short supply during the war.<sup>128,129</sup>

The Temiskaming Speaker and the North Bay Nugget from the wartime period feature many articles about the work of the Navy League and the Red Cross. In addition to raising money, these organizations helped to mobilize women in Cobalt, New Liskeard, North Bay and indeed across Canada to support sailors in the RCN as well as Canadian soldiers and airmen by knitting. And not just mittens either. Women across Canada knit thousands of items for the men and women in uniform: mittens, socks, tuques, sweaters, vests, long underwear, and more specialized woolens to help the troops keep warm while being able to safely handle their equipment and do their jobs. The Canadian Red Cross Society published a book of knitting instructions that could be used to make the whole array of woolens needed.<sup>130</sup>

In their book, *We Lived a Life and Then Some*, authors Charlie Angus and Brit Griffin quote Cobalter Vivian Hylands, who was a child growing up during the war:<sup>131</sup>

"Then of course there was the knitting. A tremendous amount of knitting was done for the war effort. We had piles of knitting books and knitted all the strange garments needed for the war: balaclavas, different kinds of things that went under the steel helmets, gloves with one or two fingers out for gunners, socks, everything. There was knitting for the air force, the navy, and the infantry. You didn't have to be a boy to know how they fought the war:"

<sup>&</sup>lt;sup>128</sup> Port Arthur Daily News Chronicle, October 14, 1961

<sup>&</sup>lt;sup>129</sup> Thunder Bay Museum, Series E 68/1/1: correspondence received by the Cobalt Club between 1941 and 1946.

<sup>&</sup>lt;sup>130</sup> https://wartimecanada.ca/sites/default/files/documents/Knitting%20instructions%201940.pdf

<sup>&</sup>lt;sup>131</sup> Charlie Angus and Brit Griffin. 1996. We Lived a Life and Then Some: The Life, Death, and Life of a Mining Town. Between the Lines. Toronto, Ontario.

*An ad from The Star Weekly, Toronto, May 23 ---- (year is not legible). (Credit: https://www.elinorflorence.com/blog/wartime-knitting/)* 



CANADIAN WOMEN who want to know what they should knit for the boys in the navy can get some hints from these pictures of the crew of a Harwich minesweeper. A group of British women got together a bunch of woollies, and took them on board and had the men try them on. "They're fine," said the delighted recipient. Above, a seaman with his pair of gloves SOME DO'S FOR the navy knitters: Biggest requirements are gloves, sweaters, sea-boot stackings, knitted caps and pullovers. Some don't's: Avoid mittens and wristlets; be careful not to make the sweaters too big. A sloppy fit in a knitted garment lets in the cold. Above: A pair of stackings.

THE DESIGN of this sweater was worked out by Mrs. Winston Churchill, and this Harwich sailor evidently appreciates it, as well as his knitted cap. Gaudily colored caps with pom-poms on top are very popular. Men on the minesweepers, in fact, in every branch of the navy, work under rigorous conditions, need comforts



A sailor aboard HMCS Wetaskiwin climbing on deck from the engine room wearing a hand-knit tuque and turtleneck sweater. (Credit: Collection of John Cornwell, www.forposterityssake.ca.) The sample of ore sitting on the desk of the Cobalt's commanding officer was not the only reflection of Cobalt's mining heritage aboard HMCS Cobalt.

The crews of corvettes like HMCS Cobalt were drawn from across Canada, but they often tried to personalize their ships to strengthen the ties with the towns and cities for which they were named. The corvettes had a 4-inch gun on the forward part of the ship, and on many corvettes, the metal shield around this gun was painted with artwork depicting something about the ship and the town for which it was named.<sup>132</sup>

The gunshield of the Cobalt featured artwork depicting an angry-looking bumblebee wearing a miner's helmet. The bumblebee was brandishing a stick of dynamite and a prospector's hammer with one pair of arms and was smashing a swastika with a jackhammer with the other set of arms. Thus, Cobalt's mining heritage was put to sea in the war against the U-boats.

The gunshield art was inspired by Cobalt's mining heritage but, like the gunshield art on many corvettes as well as much of the nose art that was painted on many Allied aircraft, it was based closely on a Disney creation. In 1942, the US Army Air Force placed an order with the Beech Aircraft Corporation. Beech commissioned Walt Disney to create a company mascot to encourage productivity and morale of the company's workers on the production line. The Beechcraft Busy Bee featured a bee on a background of an aircraft blueprint in the shape of a beech tree leaf, and holding tools used on the production line.<sup>133</sup> The inspiration for the Cobalt's gunshield is clear! Appendix 4 has more information on this.

Interestingly, there seem to have been two different versions of the Cobalt's gunshield art. The artwork in the photo in Section 10 of Milton Whymark posing by the gunshield is different than in the photos below. In the photos below the artwork is reversed (jackhammer pointing to the right), the artwork is larger (it extends under the railing around the gunshield), and it is painted directly on the gunshield. In the





<sup>&</sup>lt;sup>132</sup> T.G. Lynch and J.B. Lamb (1984). Gunshield Graffiti. Nimbus Publishing

<sup>133</sup> http://2719hyperion.blogspot.com/2011/04/what-character-beechcraft-busy-bee.html

photo of Whymark, the artwork is painted on a sheet of metal or some other material that is riveted or bolted to the gunshield. This version of the gunshield art was likely applied after the Cobalt's refit in Liverpool, Nova Scotia, in March/April 1943, since it appears in photos taken after a new radar unit was installed, most likely as part of that refit (see Appendix 4). Oh, to know what happened to this version of the artwork, since it could have been removed later!

Later in the war, as corvettes were upgraded, rails were installed on the gunshields to launch rockets to provide illumination when fighting at night. As a result, the gunshields no longer provided a ready canvas for this kind of artwork. In many cases, the artwork was replicated on the front of the bridge or in other locations on the ship. The author has not been able to confirm if this happened in the case of the Cobalt, but it would be nice to think that the crew of the Cobalt preserved this link to "the best old town I know".

A version of the gunshield art painted by the same artist was given to the Town of Cobalt. The Cobalt Town Council minutes from March 5, 1943, refer to a replica and a picture of HMCS Cobalt that were donated to the town.<sup>134</sup> Two photos taken in the Town of Cobalt council chambers show this artwork on the mantle of a large fireplace in the chambers. This artwork is now part of the collection of the Cobalt Mining Museum. Interestingly, in this artwork, the bumble bee's wings and a few other details are missing.

As further described in Appendix 4, a version of the gunshield art also hangs in the Crow's Nest Officer's Club in St. John's, Newfoundland and Labrador. This club was established for naval and merchant marine officers during the Second World War and has an extensive collection of ships' gunshield art and other ships' badges and crests from the war and the post-war period.

<sup>&</sup>lt;sup>134</sup> Minutes of the meeting of the Municipal Council for March 5, 1943.

Cobalt's gunshield, probably soon after the artwork was completed, judging by how fresh the paint looks. This is the only known photo of the gunshield that shows the artist's signature, "Watson", in the shaded area near the bee's left foot (see inset). There is no information on why this signature is not present in other photos of the artwork, but it provides further evidence that this photo was taken very soon after the artwork was first completed. (Credit: Roger Litwiller Collection, courtesy Ross Milligan, RCNR. (RTL-REM172). Photo has been digitally restored by the author.)



Embroidered jacket patch based on the Cobalt's gunshield art that could be worn on civilian clothing but not as part of the official RCN uniform. (Credit: Glen Bahry, son of a Cobalt crew member, personal communications with the author.)





Photo taken inside the Town of Cobalt council chamber, showing a painting of the Cobalt's gunshield art in the top left corner. (Credit: Maggie Wilson, Cobalt Historical Society, personal communication with the author)

Version of the Cobalt's gunshield art, given to the Town of Cobalt in 1943 and now in the collection of the Cobalt Mining Museum. Photographed in the Bunker, a military museum in Cobalt with the ship's bell from HMCS Cobalt. The bell is part of the Bunker's collection. This was taken in September 2023, shortly after the artwork was found in the collection of the Mining Museum. Before the artwork was found in August 2023, there was no information on where the artwork was located or if it even still existed. The author wishes to thank the staff of the Cobalt Mining Museum for finding the artwork, and the staff of both museums for providing the opportunity for the author to "reunite" these two artifacts of HMCS Cobalt. (author's photo)



When the RCN began selecting town names to use for names of new ships being built early in the war, the process was somewhat haphazard. Apparently, towns were picked based on the font size used for the town names in an atlas.<sup>135</sup> If the font was large enough then the towns were candidates! From that candidate list, it is possible that Cobalt's past fame helped bring it to the top of the list. We may never know for sure how Cobalt was one of the first towns in Canada with a ship named after it.

By 1941, the process had become somewhat more rigorous, with navy officials compiling a list of all towns with populations of over 3000. Of course, not all names could be used. For example, some were

<sup>&</sup>lt;sup>135</sup> LCdr David J. Freeman. 2000. Canadian Warship Names. Vanwell Publishing Limited. St. Catherines, Ontario.

the same as or too similar to ships already in the Royal Navy or other Commonwealth navies (e.g., HMS Hull precluded naming an RCN ship after Hull, Quebec, and the ship named after Verdun, Quebec was called HMCS Dunver to avoid confusion with the HMS Verdun).<sup>136</sup> But this approach still gave the RCN a good list of towns to work with.

As more ships were commissioned, having a ship named after it became a point of pride for communities across Canada, and some communities not yet in the "club" began to lobby to have "their" ships. For example, after it was announced that Stormont County in eastern Ontario was going to have a ship named after it, the neighbouring county of Glengarry approached the navy since they felt that they should have a ship too. By this time, it was getting late in the war and there were not many ships left to be built and named. The ensuing controversy went all the way up to the King, since it was the King who ultimately approved all ship's names. In the end, the people of Glengarry never got their ship, although the local infantry regiment, the Stormont, Dundas, and Glengarry Highlanders, was commonly referred to as "the Glens" so perhaps that evened things out a bit.<sup>137</sup>

Closer to Cobalt, where there had always been a rivalry between the various towns across northern Ontario. It was mostly a friendly rivalry, although on the hockey rink and in the bars the rivalry could turn a 'little' rougher at times. But it seems this rivalry extended to ships too, with some of the other northern communities apparently being a bit envious of Cobalt and wanting to have ships of their own.

On December 19, 1940, The Porcupine Advance featured an article titled *Timmins Still Awaits H.M.C.S. Named in Honor of the Town* and the article began,

"Some time ago when Cobalt, "the best old town", was given the honour of having one of the new ships of the Canadian Navy named in its honour, The Advance suggested that it would be a pleasing and warranted gesture if a similar honour were given to Timmins."

What the author of the article could not have known at the time was that construction of HMCS Timmins had begun just a few days before and the Timmins was commissioned on February 10, 1942.

Meanwhile, to the south, North Bay wanted in too. The North Bay Daily Nugget had a regular feature titled *In The Service*, and in the April 12, 1941 edition, it was clear that North Bay was in the running for a ship too, although bureaucracy seemed to be getting in the way.

"Whatever happened [to sic] that suggestion from naval headquarters that one of the trim, sleek new corvettes about to join the fighting services of the Royal Canadian Navy be named "The North Bay" in honor of this city? Since the suggestion was first received in the city some weeks ago, many persons have been waiting to hear what official action would be taken on the proposal ... but to date, nothing seems to have developed.

 <sup>&</sup>lt;sup>136</sup> LCdr David J. Freeman. 2000. Canadian Warship Names. Vanwell Publishing Limited. St. Catherines, Ontario.
<sup>137</sup> Same reference as above.

HMCS Cobalt - Cobalt's Namesake Goes to War

The offer to name one of the fast new naval vessels in honor of our city was made about 10 weeks ago at a meeting of the North Bay Board of Trade. Members of that organization's board of directors held up action on the matter until it was ascertained whether or not the naval authorities had contacted the North Bay city council. Until this was known, the board thought it better not to place the matter before the council on their own initiative."

The corvette HMCS North Bay was commissioned on October 25, 1943.

New Liskeard waited patiently for its ship, and an October 21, 1943, article in the Temiskaming Speaker said that:

"It is quite likely that ere too long a time elapses New Liskeard will be represented among the ranks of Canada's navy with a ship bearing the name of the town. Needless to say the townspeople are fully aware of the honor being bestowed upon them and fully appreciate the responsibility to the crew of the vessel that goes hand in hand with the honor. When fuller details have been received as to the nature of the vessel to bear the name of Temiskaming's banner farming town plans will be made to see that the boys who sail her are taken care of with comforts, etc. The honor has undoubtedly been given to New Liskeard by the authorities in appreciation of the fine effort the citizens of the community have made in contributing so magnificently to the war loans."

The minesweeper HMCS New Liskeard was commissioned on November 21, 1944.

Other northeastern Ontario towns with ships named after them were Sudbury, Copper Cliff, Algoma, Kirkland Lake, Kapuskasing, and Sault Ste. Marie.

## 13 War's End

HMCS Cobalt survived the Second World War. Like most corvettes, her service with the RCN ended just a few weeks after the war in Europe was over in May 1945, since the Flower-class corvettes were not suitable for action in the Pacific in the continuing war against Japan. The ship left Halifax for the last time in June 1944, sailing to Sydney, Nova Scotia where ammunition, weapons, and specialized equipment were removed. The ship then sailed on to Sorel, Quebec, where she was decommissioned from RCN service and taken over by the War Assets Corporation for disposal.

The Cobalt and other corvettes may not have been very old, but they were obsolete. New German U-boats that entered service late in the war were a harbinger of things to come in submarine warfare. Able to operate fully submerged all the time, they were much faster underwater than the previous generation of U-boats. The corvettes had done invaluable service in the Battle of the Atlantic, but they were too slow, and too small to be outfitted with the latest in antisubmarine weapons. Their time as warships was done.<sup>138</sup>

With the end of the war in Europe and the decommissioning of HMCS Cobalt, most of the Cobalt's crew returned to civilian life, except for a few who may have been assigned to further duty in the war against Japan in the Pacific, and those that opted to stay in the navy after the war. Serving in the war had changed all of them, often in good ways, but sometimes in bad ways. For many sailors, like their counterparts in the army and the air force, the return to civilian life was difficult. They had experienced things that few except fellow veterans could understand. Many had been wounded, physically or psychologically, by the war. In an era with much less understanding of mental health issues and challenges like posttraumatic stress disorder (PTSD), they were left to figure it out on their own. While the government put in place many supports to help with re-training and reintegration, it was often not an easy transition for men and women who had served their country but often returned home very different people than they had been years before when they left to enlist.

## Corvettes To "Boneyard" Three Steam Away

## For De-Storation

HALIFAX, June 19.—Three more Canadian corvettes. Parry Sound, Hawkesbury and Merritonia, have steamed out of Halifax Harbor, headed for de-storation at Sydney, N.S., and then a trip to Sorel, Que., for final disposal by War Assets Corporation.

#### NAVAL PERSONNEL

The vessels arrived from the United Kingdom during the weekend, each carrying between 50 and 60 naval personnel from Newfoundland and overseas as passengers. They stopped here only long enough to discharge their passengers, and then headed for Sydney, where the vessels of the "boneyard fleet" are being stripped of their armament now that their convoy job is done and they no longer are needed.

#### TEN OTHERS

Ten other corvettes have left Sydney during the last few days on their way to Sorel for final disposal. They were the Matapedia. Edmundston, Wetaskiwin, Dawson, Cobalt, Longbranch, Chambly, Dauphin, New Westminster and Galt.

H.M.C.S. Chambly, better known as the Battling Bulldog, was the first ship of this or any other war to sink an enemy U-boat. She also was in on another probable sinking and helped damage a third German sub. Her present captain is Lt.-Comm. J. B. B. Shaw of Victoria, a former well-known newspaperman in Vancouver, Ottawa and China.

Windsor Star, June 19, 1945

<sup>&</sup>lt;sup>138</sup> On May 8, 1945, the day of the German surrender, the RCN had 113 corvettes in service. By the end of 1945, just 8 remained, and those were newer, larger Castle class corvettes. By the end of the year, the total number of RCN ships had shrunk from 278 on May 8 to just 53, and many more were decommissioned in 1946. Rob Stuart, 2009. *Was the RCN ever the Third Largest Navy*. Canadian Naval Review, Volume 5, Number 3.

Final entries in the ship's log for HMCS Cobalt. (Credit: Department of National Defence) W.7 SHIP will hot now be dearminitioned as sailed only. W 7 SHIP (SO) DAUPHIN WETASKIWIN DAWSON to Sydney All ships to jettison ammunition in given position PCS? ETA Syeney 2045/3, DAWSON WETASKWIN DAUPHIN cin company. W 7 to ydney. From St. John's in co for destoring.SHIPDAUPHIN WETASKIWIN DAWSON. Intend paying off SHIP 15th June. Re equipment removed. To Sorel for final dispesal. ETA Father Point 1200/16. P. .S. 0900/15 ETA Father Point 1230/16 ETA nuches 2310/16. LONGBRANCH in compny. Passed Quebec inbound to Sorel 2320/16. ETA 1200/17. SHIP turned over to War Asset Corp 17th June Your 091517 re stencilling of A/E cover plates SHIP sailed Sydney before action could be taken.

Canadian escort ships in Sorel, Quebec, awaiting disposal after the war, including HMC Ships St Lambert, Camrose, Kamsack, Lunenburg, and Mimico seen from HMCS Merritonia. Dozens of ships made their way to Sorel within weeks of the end of the war in Europe, as the RCN went through an extremely rapid de-mobilization and force reduction. (Credit: www.forposterityssake.ca. Photo has been digitally restored by the author.)



"Graveyard, Sorel, P.Q." a 1945 painting by Commander Tony Law who served as a naval officer and was an official war artist. The painting depicts decommissioned RCN ships in Sorel and evokes the sadness that many sailors felt as these once proud warships were "put out to pasture". (Credit: Canadian War Museum, 19710261-4075)



The Cobalt was eventually sold and like several other corvettes, she was converted to a whaling ship - appropriate considering the origins of the corvette design. From 1953 to 1961 she was operated by a Netherlands-based company as the Johanna W. Vinke. In 1961 her boiler exploded, and she could not be repaired. She was scraped in South Africa in 1963.

The former HMCS Cobalt, rebuilt as the whaling ship Johanna W. Vinke. (Credit unknown)



During the Second World War, there were more than 200 RCN ships named after towns and cities across Canada. Not all of these ships were decommissioned after the war since some of the more modern and better-equipped ships remained in service. However, like the Cobalt, dozens of these ships were decommissioned soon after the war ended.

During the war, close relationships had been established between these communities and the ships named after them. Crews were thankful for the support provided by the communities. As a gesture of thanks to these communities and their citizens, the bells of many of these ships were given to these communities after the war.

Ship's bells are an important symbol of the ship. They serve a practical purpose, being used to mark the time and other occasions. But engraved with the name of the ship, they became a tangible link to the ship that remains once the ships have passed from service to the scrap yard or non-military uses. For many of the RCN ships that served in the Battle of the Atlantic, their bells are all that remain.

On September 28, 1945, Naval Service Headquarters (NSHQ) in Ottawa issued an order that "inscribed ship bells and plaques from ships declared surplus are to be removed and forwarded to NSHQ."<sup>139</sup> Between then and late 1947, bells were given to communities across Canada. In many cases, ceremonies

<sup>&</sup>lt;sup>139</sup> Naval Message from Naval Service Headquarters, September 28, 1945. Library and Archives Canada, RG24, Volume 11120.

were held with naval officers present, during which the bells were handed over to the mayors of the communities, representatives of service clubs, or local sea cadet units. The author compiled media articles from newspapers across Canada, documenting these events. For example, on May 22, 1946, a ceremony was held in Sudbury to turn over the bells of HMC Ships Sudbury and Copper Cliff. The mayor of Copper Cliff and the wife of the mayor of Sudbury received the bells from the RCN officers present at the ceremony.<sup>140,141</sup>

The author has not been able to find any information to document any such ceremony in Cobalt. Minutes of the Cobalt Town Council meetings from the end of the war through to August of 1947 make no mention of the ship or the bell. No documents or photos related to such an event have been found in the collections of the Cobalt Mining Museum and the Cobalt Historical Society. Media, including articles from the Temiskaming Speaker and the North Bay Nugget, make no mention of such an event. However, the bell definitely found its way to Cobalt soon after the war.

On August 5, 1947, a major fire hit Cobalt, leaving 60 people homeless. A relief fund was established, and with the war still very fresh in everyone's memories, HMCS Cobalt's bell featured in some of the fundraising efforts.<sup>142</sup> A photo taken in the town council chambers sometime after the war also shows the bell on the mantle of the fireplace. Today, the bell remains in Cobalt, as part of the collection of The Bunker, a military museum in town.



Recovering from disastrous fire last August, which left 60 homeless, Cobalt has sent out a call for help. Here Anita St. Laurent sounds the bell from H.M.C.S. Cobalt an nouncing the appeal to northern communities for aid for the victims.

<sup>&</sup>lt;sup>140</sup> Great Sudbury and the Canadian Navy – H.M.C.S. Sudbury And H.M.C.S. Copper Cliff. https://pub-greatersudbury.escribemeetings.com/filestream.ashx?documentid=25576

<sup>&</sup>lt;sup>141</sup> North Bay Daily Nugget, Thursday, May 23, 1946.

<sup>&</sup>lt;sup>142</sup> The Fort Willian Daily Times-Journal, September 19, 1947

Photo taken in the Cobalt Town Council chambers in 1952. The ship's bell is visible on the table on the left, and the gunshield artwork is hanging above the fireplace mantle. (Credit: Collection of John Hunt, posted to the Haileybury/ New Liskeard/ Cobalt/ Coleman Photos Facebook Group.)





*Ship's bell from HMCS Cobalt, now part of the collection of The Bunker, a military museum in Cobalt. (author's photo)* 

## Bibliography

The author grew up in a household steeped in military history, surrounded by books about the Royal Canadian Navy and the Second World War, and began working on this history of HMCS Cobalt in 2006. Thus, it has been challenging to attribute specific sources to all information provided in this history. However, the following books and websites are all valuable references on Flower class corvettes that have, in one way or another, influenced what is written here.

#### **Books and Articles**

Lambert, John and Brown, Les. 2015. Flower Class Corvettes. Seaforth Publishing

LeCren, Bruce. 2020. *The Flowers of Canada - The Royal Canadian Navy's Corvettes in World War II*. Originally published in the Nautical Research Journal Spring 2020. http://www.forposterityssake.ca/RCN-DOCS/Flowers-of-Canada-LeCren.pdf

Lynch, Thomas. 1981. Canada Flowers: History of the Corvettes of Canada, 1939-1945. Nimbus Publishing

McKay, John and Harland, John. 2010. *The Flower Class Corvette Agassiz (Anatomy of the Ship)*. Conway Maritime Press

Macpherson, Ken and Milner, Marc. 1993. *Corvettes of the Royal Canadian Navy 1939-1945*. Vanwell Publishing

#### Articles from Legion Magazine, published by the Royal Canadian Legion

https://legionmagazine.com/en/the-first-convoys/ https://legionmagazine.com/en/the-humble-corvette-navy-part-27/ https://legionmagazine.com/en/the-rush-to-expansion/ https://legionmagazine.com/en/the-newfoundland-escort-force/ https://legionmagazine.com/en/the-training-gap-navy-part-31/ https://legionmagazine.com/en/scrappy-little-corvettes-navy-part-37/ https://legionmagazine.com/en/the-sheep-dog-navy-navy-part-39/ https://legionmagazine.com/en/an-american-blunder-navy-part-43/ https://legionmagazine.com/en/shaped-by-crisis-building-new-corvettes-navy-part-56/ https://legionmagazine.com/en/five-u-boat-kills-in-five-weeks/ https://legionmagazine.com/en/distracting-the-pack/ https://legionmagazine.com/en/operation-drumbeat/ https://legionmagazine.com/en/running-ragged-the-north-atlantic-run/ https://legionmagazine.com/en/the-battle-of-the-st-lawrence/

## Websites

https://readyayeready.com http://www.forposterityssake.ca/RCN.htm https://www.naval-history.net/xDKEscorts20Cor-FlowerRCN02.htm https://www.tapatalk.com/groups/theflowerclasscorvetteforums/ https://uboat.net/



# **Photo Galleries**

## **Crew Gallery**

In this section are additional photos of the Cobalt's crew throughout the war. Unfortunately, most are unlabelled, particularly those from the collection of the Cobalt Mining Museum, so there are no names provided for most of the crew in these photos. In addition, it is possible that some are not actually from the Cobalt. There are a handful of other photos in the Mining Museum's collection that are mislabelled as HMCS Cobalt, so a few of these may be too.

*Crew members about the Cobalt, sometime between January 1942 and March 1943. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)* 





An officer aboard HMCS Cobalt in port, likely St. John's. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)
Two crew members sitting on the bandstand for the antiaircraft gun near the stern of the ship. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



Crew sitting on depth charge storage racks near the stern, taken after standing down from action stations. The sailor on the left is Ken Adam. (Credit: Collection of Ken Adam, courtesy of Rick Adam, personal communications with the author. Photo has been digitally restored by the author.)



A group of crew members ashore in Londonderry, Northern Ireland. (Credit: Collection of Ken Adam, courtesy of Rick Adam, personal communication with the author. Photo has been restored by the author.)



Crew members in the ratings quarters. Left to right are Price, Hewling, Dobson, and Ken Adam. (Credit: Collection of Ken Adam, courtesy of Rick Adam, personal communication with the author. Photo has been digitally restored by the author.)



Ship's officers of HMCS Cobalt in 1943, posed in from of the ship's main gun and bridge. Seated (left to right): Lieutenant C.D. Heward, Acting Lieutenant Commander R.A. Judges (commanding officer of the Cobalt), and Mate A.W.Bett. Standing (left to right): Sub-lieutenant N.M. MacMillen, Sub-lieutenant N.J. Russel, unknown. (Credit: Department of National Defence. Photo has been digitally restored by the author.)



Petty Officer William E. Killam. (Credit: Collection of William Killam, www.forposterityssake.ca. Photo has been digitally restored by the author.)



Petty Officer William E. Killam (centre) with an unidentified petty officer (left) and an unidentified chief petty officer (right). (Credit: Collection of William Killam, https://www.rcnhistory.org/killam-cobalt.htm. Photo has been digitally restored by the author.)





*William E. Killam after promotion to chief petty officer. (Credit: Collection of William Killam, https://www.rcnhistory.org/killam-cobalt.htm)* 

*Crew of a corvette, likely HMCS Cobalt, on parade, led by Acting Lieutenant Commander R.A. Judges. (Credit: Collection of Ronald Judges, courtesy of Chanin Graham, personal communication with the author. Photo has been digitally restored by the author.)* 





#### FRANK DEMOOR

He joined the navy on August 10, 1942. His naval training took him from British Columbia to Nova Scotia where in Halifax he was assigned to the HMCS Cobalt. Their job was to escort and protect the convoys of merchant ships across the mid Atlantic which was a life line to England. Once out in the mid Atlantic the "Black Hole" as it was called, there was no air protection and that is where the German subs were waiting for them. He was discharged on Dec.13,1945.

Crew member in the bandstand for the antiaircraft gun. Date and location unknown. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)









One of the Cobalt's officers, posing mid-way up the ship's funnel. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)

Four of Cobalt's crew looking out from the bridge sometime between January 1942 and March 1943. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



Crew aboard HMCS Cobalt sometime between January 1942 and March 1943. (Credit: Collection of William Killam, https://www.rcnhistory.org/killam-cobalt.htm. Photo has been digitally restored by the author.)





Bill Pitcher and George William Mills in 1944. (Credit: James Haines, personal communication with the author. Photo has been digitally restored by the author.)

George William Mills and a sailor named Williamson in 1943. (Credit: James Haines, personal communication with the author. Photo has been digitally restored by the author.)



From the Toronto Telegram, November 20, 1943: A group of Toronto lads, members of Cobalt's crew, look over some snapshots from home in their quarters aboard the ship. Front, left to right – Stoker Walter Palonen, Leading Seaman Johnny Sampson, A.B. [Able Seaman] Edgar Chambers. Back – Sick Berth Attendant Johnny Lees, A.B. Frank Brown. (Credit: Department of National Defence)



The Cobalt's gunshield was a popular backdrop for photos, as shown in these photos from the collection of the Cobalt Mining Museum. All have been digitally restored by the author.







William Poshtar (Credit: Collection of Donald Douglas, www.forposterityssake.ca. Photo has been digitally restored by the author.)

William Poshtar (left) and Donald Douglas (right). Douglas was a sick bay attendant. (Credit: Collection of Donald Douglas, www.forposterityssake.ca)



#### **HMCS Cobalt Gallery**

This gallery presents photos of HMCS Cobalt not used elsewhere in this book. Unless otherwise noted, these photos are from the collection of the Cobalt Mining Museum and have been digitally restored by the author. Dates are estimated by the author based on the appearance of the ship and equipment fitted.

Photo from the Department of National Defence of a corvette labeled as HMCS Cobalt. This was an official photo taken at the time of commissioning. Despite the label and the source, the author believes that this is actually HMCS Chilliwack. An almost identical photo of the Chilliwack is on the website www.posterityssake.ca. The best evidence that this is not the Cobalt is that a canvas sun awning has been fitted over the bridge - not something the Cobalt needed leaving Port Arthur in late November destined for Halifax. However, the Chilliwack left Vancouver in May 1941 destined for Halifax by way of the Panama Canal and the Gulf of Mexico. On that route, the bridge crew would certainly have appreciated the awning to protect them from the sun. The moral of the story – always cast a critical eye, regardless of the information source. (Credit: Department of National Defence. Photo has been digitally restored by the author.)



An early photo of HMCS Cobalt, taken before her pennant number (identification number) had been painted and before anti-aircraft guns were installed. (Credit: Collection of William Killam, www.forposterityssake.ca)



HMCS Cobalt in 1941. (Credit: www.forposterityssake.ca)



Taken between January 1942 and March 1943





Taken after January 1942.



Taken between January 1942 and March 1943.



HMCS Cobalt in the foreground in Liverpool Nova Scotia for refit, either between March and April 1943, or between April and July 1944.



Taken between January 1942 and March 1943, location unknown.



Taken between January 1942 and March 1943 in Boston.



HMCS Cobalt between June 1943 and April 1944. The photo was taken while supplies or personnel were being transferred from one ship to another using a line fired from one of the ships. In the photo, crew members of the Cobalt can be seen in front of the main gun, holding the line. (Credit: Collection of Ronald Judges, courtesy of Chanin Graham, personal communication with the author. Photo has been digitally restored by the author.)



HMCS Cobalt underway after her final refit was completed in July 1944. Given the number of people on deck and how casual they look, as well as the fact the ship's wooden boat, normally stowed on the starboard side, is missing, this was likely taken as she was leaving Liverpool. (Credit: Collection of Edmund Ferris, https://www.rcnhistory.org/ferris-cobalt.htm. Photo has been digitally restored by the author.)



Taken between July 1944 and the end of the war in May 1945. (Credit: Department of National Defence. Photo has been digitally restored by the author.)



Taken between July 1944 and the end of the war in May 1945, and likely after the photo above. (Credit: Department of National Defence. Photo has been digitally restored by the author.)



Taken between July 1944 and the end of the war in May 1945. (Credit: Department of National Defence. Photo has been digitally restored by the author.)



Taken between July 1944 and the end of the war in May 1945. (Credit: Unknown. Photo has been digitally restored by the author.)



## Wartime Colour Photos

Colour photos of corvettes operating during the Second World War are rare, but they help bring these ships, the Cobalt included, to life in a way that neither black and white photos, nor photos of a museum ship like HMCS Sackville can. Below are colour photos of Canadian corvettes taken during the war.

HMCS Arrowhead. (Credit: Royal Canadian Navy)



HMCS Regina. (Credit: National Defence - Canadian Navy Heritage website. Image Negative Number CT-252)



HMCS Weyburn. (Credit: Royal Canadian Navy)



HMCS Midland in 1942 or 1943, being repainted in port, likely Halifax. It looks like the communications personnel have been busy doing laundry since all of the signal flags have been put out to dry. (Credit: Collection of Bill Gard, www.forposterityssake.ca)



HMCS The Pas. (Credit: Collection of William McLean, www.forposterityssake.ca. Photo has been digitally restored by the author, but edits were limited to the removal of dust marks, scratches, and blemishes. Colours and exposure of the original scan were not altered.)



HMCS Kamsack. (Credit: Collection of Alan E. Hardwick, www.forposterityssake.ca. Photo has been digitally restored by the author, but edits were limited to the removal of dust marks, scratches, and blemishes. Colours and exposure of the original scan were not altered.)





# Extra Details: Appendices

## Appendix 1: Canada's Naval Memorial - HMCS Sackville

One of the Cobalt's sister ships, HMCS Sackville, still survives as the last example of the Flower class corvettes. Like the Cobalt, the Sackville was part of the first group of corvettes ordered for the RCN. She was on active service escorting convoys, much like the Cobalt, until the summer of 1944 when one of her boilers was damaged. She returned to Halifax and was used for a short time as a training ship for naval officers. She was then rebuilt for a new role, laying submerged cables on the seabed that were used to detect passing submarines.<sup>143</sup>

Ironically, it was the damage to the boiler and the conversion to this new role that likely saved the Sackville. Unlike other Canadian corvettes that were decommissioned within weeks of the war ending, the Sackville remained in service in her new role until the spring of 1946 and was then retained by the navy. She was recommissioned as a depot ship in 1950 as the RCN was gearing up for a new role in the Cold War. In 1953, she took on yet another role, as a Canadian Naval Auxiliary Vessel used for conducting oceanographic surveys in the Gulf of St. Lawrence and in the Arctic near Baffin Island and Greenland. She was extensively modified again in 1968 and became a research ship operated by the Department of National Defence on behalf of the Bedford Institute of Oceanography in Dartmouth, Nova Scotia, at the time part of the federal Department of Mines and Technical Surveys. The Sackville continued service as a research ship until 1982.<sup>144,145</sup>

When she was finally decommissioned after her long and varied career, it was recognized that the Sackville had outlived all of the almost 300 Flower class corvettes that had been built and served during the war. Her historical importance was recognized and rather than being sold for scrap, she was transferred to the Canadian Naval Corvette Trust in 1983. She was then restored to her 1944 appearance. She became a museum ship in Halifax and in 1985 was designated as Canada's Naval Memorial. For more information about the Sackville and the museum, go to: http://canadasnavalmemorial.ca/ or follow HMCS Sackville on Facebook.

The author has had the opportunity to visit the Sackville several times, and except as noted, all of the photos in this section were taken by the author.

<sup>&</sup>lt;sup>143</sup> https://www.canada.ca/en/navy/services/history/ships-histories/sackville.html

<sup>&</sup>lt;sup>144</sup> Same reference as above.

<sup>&</sup>lt;sup>145</sup> http://www.forposterityssake.ca/Navy/HMCS\_SACKVILLE\_K181.htm

*HMCS Sackville in 1944. (Credit: Collection of Dan L. Dunbar, www.posterityssake.ca. Photo has been digitally restored by the author.)* 



*HMCS Sackville after she had been converted to her new role as a cable layer. (Credit: Collection of Patrick Onions, www.forposterityssake.ca)* 


*HMCS Sackville's long career comes to an end in December 1982. (Credit: www.forposterityssake.ca. Photo has been digitally restored by the author.)* 



Newspaper article about the effort to save HMCS Sackville. Despite her historical value, saving the ship was going to take a lot of money, and the navy did not hand over the ship until a group had come forward with enough money. (Credit: Collection of Leonard Hare, www.forposterityssake.ca)



Recently retired corvette HMCS Sackville ploughs through Atlantic in 1943 photograph.

# Ex-sailors bid to save last corvette

HALIFAX (CP) — The sole survivor among Canada's fleet of 123 corvettes from the Second World War has been taken out of service by the Canadian navy, but retired naval officers are moving ahead with plans to ensure preservation of the Sackville.

The Flower-class corvette was taunched in Saint John in May, 1941, and used on convoy escort duty in the North Atlantic virtually from day one.

Although other corvettes were sold after the war, the Sackville was retained, having been converted near the end of the war to lay submarine-sensing loops in East Coast harbors. She was converted again to a survey ship in 1953 and underwent extensive modification in 1968 to reflect her new status' as a research ship.

was somehow fitting for a ship credited with sinking an unidentified German Uboat off Newfoundland on Aug. 3, 1942, and damaging a second one the same day.

Despite more than 41 years of service, Sackville "is in exceptionally good condition — clean and unrusted," Verne Howland, a retired navy captain, said.

Mr. Howland is a member of a committee from the Maritime Museum in Halifax and the Naval Officers Association of Canada that wants to acquire the Sackville and restore her to wartime form.

The Canadian Forces has given the group until the end of 1983 to come up with the necessary money and the association is establishing a national foundation to receive donations for the estimated \$1-million cost of acquisition and restoration.

"We hope to make her look like a typical Canadian corvette of 1942-43... not necessarily to recreate the Sackville as she was," Mr. Howland said. Target date for completion is May of

Target date for completion is May of 1985, the 75th anniversary of the Royal Canadian Navy. Mr. Howland hopes the Sackville could receive an honorary recommission and go on permanent display in Halifax.

A. H. (Gus) Rankin of Halifax, who commanded the Sackville in 1943 and 1944, said he always felt one Canadian corvette should be preserved. "The battle of the North Atlantic was

"The battle of the North Atlantic was a corvette war and corvettes represented 90 per cent of the Canadian Navy," Mr. Rankin, who retired as a navy lieutenant-commander, said. "Sackville is the last one and if she goes, part of our history disappears."



The Town of Cobalt contributed to the fundraising effort to save the Sackville. In recognition of the contribution, this certificate was provided to the town (Credit: Town of Cobalt municipal office)

*HMCS Sackville undergoing restoration. (Credit: Collection of the Maritime Museum of the Atlantic, https://blog.halifaxshippingnews.ca/category/hmcs-sackville)* 

















Inside the ASDIC hut



The tuck shop, where crew could buy cigarettes, magazines, sweets, and other personal items.



*The sick bay. Corvettes like the Cobalt did not have a doctor on board – they were too small. However, they did have a sick berth attendant, an officer with training to provide basic emergency medical care.* 



Donald Albert Douglas, who served as a Sick Bay Attendant aboard HMCS Cobalt. (Credit: www.forposterityssake.ca)



## Appendix 2: Convoys Escorted by HMCS Cobalt and Other Significant Milestones in the Ship's History

This appendix lists all of the convoys that were escorted at some point in their crossing by HMCS Cobalt. Trans-Atlantic convoys were rarely escorted by a single group of ships throughout their crossing. Early in the war, they would have crossed part of the Atlantic unescorted due to the shortage of escorts. Later, they would have transferred from the protection of one escort group to another during their crossing.

This is reflected in this appendix. For those convoys crossing the Atlantic, the Cobalt was never with the convoy for the entire crossing. The table provides the dates when each convoy departed and arrived at its destination and the dates during which the Cobalt participated in the escort of that convoy.

Each convoy was given a two or three-letter code indicating the port the convoy departed from and the destination. In the table below convoys are colour-coded, with east-bound convoys in green and west-bound convoys in blue.

Eastbound convoys (highlighted in Western Approaches green) SC – Halifax slow to the United Kingdom
• 177 convoys throughout the war with a loss of 211 ships
HX – Halifax to the United Kingdom
• 377 convoys throughout the war with a loss of 206 ships
BX – Boston to Halifax
• 206 convoys throughout the war with a loss of 5 ships
Westbound convoys (highlighted in Western Approaches blue) OB – Liverpool (UK) outbound to the Americas or Africa
• 345 convoys throughout the war with a loss of 213 ships
ON – Liverpool (UK) to New York Fast
• 307 convoys throughout the war with a loss of 162 ships
ONS – Liverpool (UK) to Halifax Slow
• 51 convoys throughout the war with a loss of 19 ships
XB – Halifax to Boston
196 convoys throughout the war, data on losses not located

<b>1940</b> 1940/04/01 – The Cobalt was laid down in Port Arthur	)er						
1940/04/01 – The Cobalt was laid down in Port Arthur							
1940/08/1 / - 1 he Cobalt was launched							
1940/11/25 - HMCS Cobalt was commissioned into the Royal Canadian Navy in Port Arthur							
1940/11/25 – Acting Lieutenant Commander Robert Baird Campbell, Royal Canadian Navy Reserve, takes command of the ship							
1940/12/24 – HMCS Cobalt arrived in Halifax							
1941							
1941/01/22 – HMCS Cobalt participated in trials of diffused lighting camouflage near Halifax							
SC 026 1941/03/20 1941/03/20 1941/02/20 1 1941/04/08 23/10	3/10						
HX 119B 1941/04/06 1941/04/06 1941/04/70 2 1941/04/22 19/0	9/0						
HX 120 1941/04/10 1941/04/10 1941/04/10 1 1941/04/29 37/0	7/0						
SC 029 1941/04/19 1941/04/19 1941/04/19 1 1941/05/08 42/0	2/0						
HX 123 1941/04/25 1941/04/25 1941/04/25 1 1941/05/13 34/0	4/0						
SC 030 1941/04/29 1941/04/29 1941/04/30 2 1941/05/20 28/1	8/1						
HX 124 1941/04/30 1941/04/30 1941/04/30 1 1941/05/20 36/0	6/0						
HX 125A 1941/05/06 1941/05/06 1941/05/06 1 1941/05/22 40/0	0/0						
SC 031 1941/05/09 1941/05/10 2 1941/05/30 32/0	2/0						
SC 032 1941/05/19 1941/05/19 1941/05/20 2 1941/06/07 28/0	8/0						
1941/05/20 – Lieutenant Colin James Angus, Royal Canadian Navy Reserve, takes command of the ship							
1941/05/23 - Left Halifax for St. John's with Newfoundland Escort Force							
HX 132 1941/06/10 1941/06/15 1941/06/23 8 1941/06/28 34/0	4/0						
SC 034 1941/06/10 1941/06/16 1941/06/23 7 1941/06/29 34/0	4/0						
OB 339 1941/06/26 1941/07/02 1941/07/10 9 1941/07/12 52/0	2/0						
SC 037 1941/07/12 1941/07/15 1941/07/23 8 1941/07/28 41/0	-1/0						
HX 138 1941/07/11 1941/07/16 1941/07/23 7 1941/07/27 47/0	.7/0						
ON 001 1941/07/26 1941/07/31 1941/08/09 10 1941/08/09 54/0	4/0						
HX 146 1941/08/21 1941/08/24 1941/09/02 9 1941/09/06 62/0	52/0						
ON 012 1941/09/01 1941/09/07 1941/09/10 4 1941/09/14 43/0	3/0						
SC 046 1941/09/24 1941/09/27 1941/09/05 9 1941/10/10 53/0	3/0						
ON 023 1941/10/04 1941/10/10 1941/10/19 10 1941/10/19 26/0	6/0						
SC 052 1941/10/29 1941/11/02 1943/11/03 2 1941/11/05 34/5	4/5						
ON 029 1941/10/22 1941/11/04 1941/11/05 2 1941/11/05 31/0   ON 029 1941/11/12 1041/11/12 1041/11/15 41/0 41/	1/0						
ON 036 1941/11/13 1941/11/18 1941/11/25 8 1941/11/25 41/0   UN 1/2 1041/11/27 1041/11/27 1041/11/20 2 1041/11/25 41/0	1/0						
HX 162 1941/11/2/ 1941/11/2/ 1941/11/29 3 1941/12/11 31/0	1/0						
Ketit in Liverpool, Nova Scotia							
HX 176 $1942/02/19$ $1942/02/19$ $1942/02/22$ 4 $1942/03/06$ $24/0$	4/0						
SC 071 1942/02/22 1942/02/27 1942/03/10 12 1942/03/10 23/0	3/0						
ON 076 1942/03/15 1942/03/16 1942/03/26 11 1942/03/31 27/0	7/0						
SC 078 1942/04/05 1942/04/09 1942/04/21 13 1942/04/22 12/0	2/0						
ON 090 1942/04/28 1942/04/29 1942/05/11 13 1942/05/15 47/0	7/0						

Convoy number	Date convoy sailed	Date Cobalt joined the convoy	Date Cobalt left the convoy	Number of days Cobalt was with the convoy	Date convoy arrived	Number of merchant ships in convoy/ number sunk	
1942/05: Assign	ned to Western Lo	ocal Escort Force	(WLEF)				
SC 085	1942/05/29	1942/05/29	1942/05/31	3	1942/06/12	60/0	
ON 099	1942/05/29	1942/06/07	1942/06/12	6	1942/06/12	28/0	
ON 105	1942/06/19	1942/06/28	1942/06/28	1	1942/06/30	36/0	
BX 027	1942/07/02	1942/07/03	1942/07/04	2	1942/07/04	32/1	
BX 027B	1942/07/03	1942/07/03	1942/07/05	3	1942/07/05	15/0	
SC 091	1942/07/10	1942/07/10	1942/07/13	4	1942/07/24	39/0	
SC 093	1942/07/24	1942/07/26	1942/07/26	1	1942/08/07	41/0	
ON 114	1942/07/19	1942/07/30	1942/08/04	6	1942/08/04	32/0	
BX 032B	1942/08/06	1942/08/06	1942/08/08	3	1942/08/08	18/0	
XB 035	1942/08/23	1942/08/23	1942/08/25	3	1942/08/25	18/0	
BX 035	1942/08/26	1942/08/26	1942/08/28	3	1942/08/28	51/0	
XB 036	1942/08/30	1942/08/30	1942/09/01	3	1942/09/01	17/0	
BX 036	1942/09/02	1942/09/02	1942/09/04	3	1942/09/04	44/0	
HX 207	1942/09/13	1942/09/13	1942/09/16	4	1942/09/25	36/0	
ON 128	1942/09/05	1942/09/18	1942/09/22	5	1942/09/24	22/0	
HX 209	1942/09/24	1942/09/27	1942/09/29	3	1942/10/09	34/2	
ON 132	1942/09/19	1942/10/04	1942/10/07	4	1942/10/08	37/0	
SC 105	1942/10/11	1942/10/15	1942/10/18	4	1942/10/31	50/0	
ON 137	1942/10/11	1942/10/22	1942/10/26	5	1942/10/29	38/0	
ON 138	1942/10/11	1942/10/31	1942/11/03	4	1942/11/03	57/1	
SC 109	1941/11/09	1942/11/09	1942/11/12	4	1942/11/30	45/2	
HX 215	1942/11/11	1942/11/13	1942/11/17	5	1942/11/25	42/0	
ON 144	1942/11/07	1942/11/20	1942/11/25	6	1942/11/27	28/5	
ON 147	1942/11/17	1942/12/02	1942/12/04	3	1942/12/04	29/0	
SC 113	1942/12/12	1942/12/12	1942/12/16	5	1943/01/02	54/0	
SC 114	1942/12/19	1942/12/22	1942/12/26	5	1943/01/07	31/0	
			1943				
ON 155	1942/12/19	1942/12/30	1943/01/02	4	1943/01/06	24/0	
1943/01/04 - Lie	eutenant Maurice	Faulkman Olive	r, Royal Canadia	n Navy Reserve,	takes temporary	command of	
the ship	10/2/12/19	1042/01/07	1042/01/12	C	1042/01/12	46/14	
UN 134	1942/12/18	1945/01/07	1945/01/12	0	1945/01/12	40/14	
ПА 225 ОМ 159	1943/01/14	1941/01/14	1941/01/17	4	1943/02/02	40/2	
10/13/02/06 Lie	1943/01/02	mas Angus Pov	1945/01/25	T Deserve resum	1945/01/25	55/1	
HX 226	1943/02/08	19/3/02/08		A A	1943/02/24	/3/0	
SC 120	1943/02/08	1943/02/08	1943/02/11		1943/03/05	56/0	
ON 167	1943/02/13	1943/02/15	1943/03/06	7	1943/03/08	27/2	
ON 170	1943/03/03	1943/03/18	1943/03/18	1	1943/03/20	51/0	
Refit in Liverno	ol Nova Scotia	17-5/05/18	17-5/05/18	1	1745/05/20	51/0	
1943/05/06 – Acting Lieutenant Commander Ronald Alfred Judges Royal Canadian Navy Volunteer Reserve							
takes command of the ship							

Convoy number	Date convoy sailed	Date Cobalt joined the convoy	Date Cobalt left the convoy	Number of days Cobalt was with the convoy	Date convoy arrived	Number of merchant ships in convoy/			
						number			
1943/06/05 – Acting Lieutenant Commander Colin James Angus was mentioned in dispatches. The citation read-									
"While serving in command of one of HMC corvettes (HMCS Cobalt) for considerable periods in the North									
Atlantic, this officer has displayed zeal, efficiency and devotion to duty."									
HX 246	1943/06/30	1943/07/02	1943/07/03	2	1943/07/14	63/0			
HX 247	1943/07/08	1943/07/08	1943/07/12	5	1943/07/22	71/0			
ON 192	1943/07/09	1943/07/18	1943/07/21	4	1943/07/22	85/0			
HX 249	1943/07/23	1943/07/25	1943/07/26	2	1943/08/06	62/0			
ON 194	1943/07/24	1943/08/04	1943/08/07	4	1943/08/07	82/0			
HX 252	1943/08/14	1943/08/14	1943/08/20	7	1943/08/28	52/0			
ON 197	1943/08/14	1943/08/22	1943/08/25	4	1943/08/28	53/0			
HX 254	1943/08/27	1943/08/30	1943/08/30	1	1943/09/12	81/1			
HX 257	1943/09/16	1943/09/16	1943/09/22	7	1943/09/30	75/0			
ON 202	1943/09/15	1943/09/25	1943/09/28	4	1943/10/01	42/5			
SC 144	1943/10/11	1943/10/11	1943/10/15	5	1943/10/27	38/0			
ONS 020	1943/10/09	1943/10/22	1943/10/26	5	1943/10/26	54/1			
XB 080	1943/10/26	1943/10/26	1943/10/28	3	1943/10/29	34/0			
SC 146	1943/11/06	1943/11/06	1943/11/09	4	1943/11/22	32/0			
ONS 022	1943/11/04	1943/11/17	1943/11/22	6	1943/11/22	30/0			
XB 084	1943/11/20	1943/11/22	1943/11/23	2	1943/11/23	24/0			
SC 148	1943/12/02	1943/12/02	1943/12/06	5	1943/12/16	41/1			
ONS 024	1943/11/30	1943/12/13	1943/12/18	6	1943/12/18	34/0			
XB 088	1943/12/17	1943/12/18	1943/12/20	3	1943/12/19	33/0			
1944									
SC 150	1943/12/30	1943/12/30	1944/01/03	5	1944/01/14	19/0			
ONS 026	1943/12/29	1944/01/13	1944/01/18	6	1944/01/18	32/0			
XB 092	1944/01/18	1944/01/18	1944/01/20	3	1944/01/20	23/0			
ON 220	1944/01/15	1944/01/31	1944/02/03	4	1944/02/04	54/0			
HX 278	1944/02/05	1944/02/05	1944/02/10	6	1944/02/20	51/0			
ON 223	1944/02/07	1944/02/18	1944/02/21	4	1944/02/24	54/0			
HX 281	1944/02/27	1944/02/29	1944/03/01	2	1944/03/15	37/0			
1944/03/04 - Lie	eutenant A.A.R. I	Dykes, Royal Ca	nadian Navy Res	erve, takes comn	hand of the ship	•			
ON 225	1944/02/22	1944/03/05	1944/03/08	4	1944/03/08	59/0			
HX 283	1944/03/13	1944/03/13	1944/03/16	4	1944/03/29	62/0			
1944/03/22 - Ai	rrived in Liverpo	ol, Nova Scotia f	or the beginning	of refit		•			
1944/03/31 - Lieutenant Alfred William Bett, Royal Canadian Navy Reserve, takes command of the ship									
1944/06/26 – Acting Lieutenant Commander Ralph Marcus Wallace, Royal Canadian Navy Volunteer Reserve,									
takes command of the ship									
1944/07/20 - Refit in Liverpool, Nova Scotia									
1944/07/21 – 1944/08/03 – Additional refit work completed in Halifax									
1944/08/07 – Sailed to Bermuda for workup and training on the new equipment installed									
1944/08/17- Anti-submarine exercise off Bermuda with a Royal Navy submarine, HMCS Runnymede, HMCS									
Joliette, and HN	ICS Nene								

Convoy number	Date convoy sailed	Date Cobalt joined the convoy	Date Cobalt left the convoy	Number of days Cobalt was with the convoy	Date convoy arrived	Number of merchant ships in convoy/ number sunk				
1944/08/26 - W	1944/08/26 – Workup completed and HMCS Cobalt returned to Halifax									
HX 309	1944/09/16	1944/09/18	1944/09/19	2	1944/10/03	74/0				
SC 158	1944/10/04	1944/10/04	1944/10/08	5	1944/10/18	72/0				
ONS 033	1944/09/29	1944/10/09	1944/10/13	5	1944/10/14	53/0				
HX 317	1944/10/30	1944/11/01	1944/11/04	4	1944/11/13	44/0				
ON 262	1944/10/24	1944/11/05	1944/11/10	6	1944/11/10	49/0				
HX 321	1944/11/19	1944/11/19	1944/11/24	6	1944/12/05	36/0				
HX 323	1944/11/29	1944/12/01	1944/12/05	5	1944/12/23	40/0				
ONS 037	1944/11/28	1944/12/14	1944/12/21	8	1944/12/21	41/0				
XB 138	1944/12/20	1944/12/20	1944/12/22	3	1944/12/22	21/0				
ON 271	1944/12/08	1944/12/24	1944/12/26	3	1944/12/28	69/0				
ON 272	1944/12/14	1944/12/28	1944/12/30	3	1945/01/01	45/0				
1945										
ON 275	1944/12/28	1945/01/08	1945/01/13	6	1945/01/13	40/0				
HX 333	1945/01/18	1945/01/18	1945/01/21	4	1945/02/01	52/0				
HX 334	1945/01/23	1945/01/25	1945/01/28	4	1945/02/06	74/0				
ON 278	1945/01/12	1945/01/26	1945/01/26	1	1945/01/31	47/0				
SC 167	1945/02/16	1945/02/16	1945/02/19	4	1945/03/02	31/2				
ONS 042	1945/02/13	1945/02/28	1945/03/04	5	1945/03/05	36/0				
BX 149	1945/03/08	1945/03/08	1945/03/10	3	1945/03/10	11/0				
SC 170	1945/03/17	1945/03/17	1945/03/20	4	1945/03/31	27/0				
ON 290	1945/03/11	1945/03/24	1945/03/29	6	1945/03/29	71/0				
HX 348	1945/04/03	1945/04/03	1945/04/06	4	1945/04/20	80/2				
SC 174	1945/04/28	1945/04/28	1945/05/01	4	1945/05/14	33/0				
ONS 048	1945/04/21	1945/05/02	1945/05/06	5	1945/05/04	23/0				
1945/05/07 – Germany surrenders and the war in Europe ends, ending the Battle of the Atlantic. The war in the Pacific against Japan was ongoing.										
SC 176	1945/05/16	1945/05/16	1945/05/20	5	1945/05/29	26/0				
ONS 050	1945/05/11	1945/05/25	1945/05/29	5	1945/05/29	35/0				
1945/06/03 – HMCS Cobalt arrived in Sydney, Nova Scotia to have all ammunition removed in preparation for										
decommissioning										
Sailed to Sorel, QC										
1945/06/17 – Н	MCS Cobalt arriv	ved in Sorel, Que	bec, and was dec	ommissioned and	d turned over to t	he War Asset				
Corporation, ending her service with the Royal Canadian Navy										

#### **References for this appendix:**

http://www.warsailors.com/convoys/index.html#ob https://www.naval-history.net/xDKEscorts20Cor-FlowerRCN02.htm https://www.wlb-stuttgart.de/seekrieg/konvois/hx-41.htm https://www.wlb-stuttgart.de/seekrieg/konvois/on-41.htm http://convoyweb.org.uk/hague/index.html https://uboat.net/allies/warships/ship/811.html#google\_vignette http://www.forposterityssake.ca/Navy/HMCS\_COBALT\_K124.htm

# Appendix 3: Battle of the Atlantic Monthly Summary of Ship Sinkings and U-boat Losses

References for this appendix: https://uboat.net/allies/merchants/losses\_year.html https://uboat.net/fates/losses/chart.htm http://www.forposterityssake.ca/RCN-LOSSES.htm

**Note:** RCN ships sunk "not due to enemy action" were lost due to other causes, most commonly collisions with other ships, but also storms, fires, and other accidents. Similarly, the U-boats lost include those sunk by the Allies as well as those sunk in collisions, training accidents, weather, etc.

Year	Month	Ships sunk or damaged		U-boats	Comments
		Bunk	Domogod	IUSt	
		SUIK	Damageu	1030	
1030	0	50	2	2	
1939	10	34	3	5	
1939	11	29	1	1	
1939	12	42	4	1	
1757	12	12	•	1940	
1940	1	56	2	2	
1940	2	51	3	5	
1940	3	26	0	3	
1940	4	10	1	4	
1940	5	16	1	1	HMCS Ypres sunk in Halifax, not due to enemy action.
1940	6	62	4	1	HMCS Fraser sunk off the coast of France, not due to enemy action.
1940	7	41	2	2	First merchant ship sunk in the southern Atlantic
1940	8	57	9	2	First merchant ships sunk west of Iceland
1940	9	57	7	1	
1940	10	60	12	1	HMCS Bras D'or sank in the Gulf of St. Lawrence, not
					due to enemy action. HMCS Margaree sunk west of Ireland, not due to enemy action.
1940	11	33	3	2	
1940	12	41	9	0	
				1941	
1941	1	15	0	0	
1941	2	44	3	0	
1941	3	40	10	5	HMCS Otter sunk off of Halifax harbour, not due to
10.41	4	4.4	4	2	enemy action.
1941	4	44	4	2	Merchant ship sinkings start moving further west,
10/1	5	62	2	1	Iowards Greenland
1941	5	60	5	1	Merchant ship sinkings continue to move west
1941	0	00	3	4	kilometers of Newfoundland
1941	7	18	3	0	
1941	8	32	1	4	
1941	9	56	4	2	HMCS Levis sunk off the coast of Greenland. First

Year	Month	Ships sunk or damaged by U-boats		U-boats lost	Comments
		Sunk	Damaged	1050	
1941	10	45	6	2	Merchant ship sinkings moving closer to
		-	-		Newfoundland, first sinking by U-boat in the
					Mediterranean Sea.
1941	11	17	0	5	Merchant ship sinkings off the coast of Labrador
1941	12	27	1	10	HMCS Adversus sunk near Shelbourne, Nova Scotia,
					not due to enemy action.
					HMCS Windflower sunk off the coast of
					Newfoundland, not due to enemy action.
			T	1942	
1942	1	58	8	3	Most merchant ship sinkings in the western Atlantic,
1010			1.0	-	from Newfoundland to South Carolina.
1942	2	70	12	2	HMCS Spikenard sunk south of Iceland.
					All but 3 merchant ships sunk and 1 damaged in the
1042	2	0.5	1.2	7	Western Atlantic and the Caribbean.
1942	3	85	13	/	All but 18 merchant ships sunk and 1 damaged in the
					western Atlantic and the Caribbean, mainly off the US
10/12	1	77	12	2	All but 10 merchant ships sunk and 1 damaged in the
1942	4	//	12	2	western Atlantic and the Caribbean mainly off the US
					coast
1942	5	126	20	4	All but 14 merchant ships sunk and 1 damaged in the
1712	5	120	20		western Atlantic and the Caribbean. First merchant
					ships sunk in the Gulf of St. Lawrence, off the Gaspe
					Peninsula in Quebec. First merchant ships sunk in the
					Gulf of Mexico.
1942	6	135	11	3	All but 18 merchant ships sunk and 2 damaged in the
					western Atlantic and the Caribbean.
1942	7	98	11	12	Merchant ship sinkings begin to drop in the western
					Atlantic and the Caribbean.
1942	8	114	17	9	Fewer merchant ship sinkings off the coast of North
					America but increase in the Caribbean and off the
1042	0	101	1.5	10	coast of South America.
1942	9	101	15	10	HMCS Ottawa sunk in the North Atlantic.
					HVICS Racoon sunk off the Gaspe Peninsula. One
					than 100 km from Pimouski. Quahac, First marghant
					shin sinkings by U-boats off the coast of southern
					Africa and in the Indian Ocean
1942	10	105	14	16	
1942	11	123	19	13	HMCS Charlottetown sunk in the St. Lawrence River
17	**	120		10	about 11 km from Cap Chat, Quebec.
1942	12	63	13	5	
	<u> </u>	1		1943	
1943	1	45	4	7	
1943	2	70	18	18	HMCS Louisburg sunk in the Mediterranean, off the
					coast of Algeria. HMCS Weyburn sunk in the
					Mediterranean, east of Gibraltar.
1943	3	108	23	15	
1943	4	49	8	17	
1943	5	45	4	42	
1943	6	21	6	16	
1943	7	51	11	38	

Year	Month	Ships sunk or damaged by U-boats		U-boats	Comments
		Sunk	Damaged	1050	
1943	8	26	4	25	
1943	9	22	3	10	HMCS Chedabucto sank near Rimouski, Quebec, not due to enemy action. HMCS St. Croix sunk south of Iceland.
1943	10	28	3	26	
1943	11	13	1	19	First time that U-boat losses exceeded convoy sinkings.
1943	12	14	1	8	
				1944	
1944	1	16	4	14	
1944	2	25	3	22	One merchant ship sunk within about 60 km of Halifax, Nova Scotia.
1944	3	21	0	24	
1944	4	11	1	21	HMCS Athabascan sunk in the English Channel.
1944	5	11	6	23	HMCS Valleyfield sunk off the coast of Newfoundland.
1944	6	18	4	24	U-boats concentrated attacks in the English Channel against the Allied fleet during the invasion of Normandy, France.
1944	7	18	7	23	Motor Torpedo Boats (MTBs) 460 and MTB 463 sunk in the English Channel
1944	8	35	2	32	HMCS Alberni sunk off the south coast of England
1944	9	13	2	20	HMCS Regina sunk off the southwest coast of England.
1944	10	9	1	9	HMCS Skeena sunk in Iceland, not due to enemy action. One merchant ship damaged by a U-boat in the St. Lawrence River, about 60 km from Matane, Quebec.
1944	11	9	2	7	One merchant ship damaged by a U-boat in the St. Lawrence River, about 15 km north of Matane, Quebec. HMCS Shawinigan sunk near Port-aux- Basques, Newfoundland.
1944	12	22	3	15	HMCS Clayoquot sunk less than 20 km from Halifax.
				1945	
1945	1	20	4	14	One merchant ship sunk and one damaged within 50 km of Halifax.
1945	2	22	2	21	HMCS Trentonian sunk off the south coast of England.
1945	3	19	2	29	HMCS Guysborough sunk off the coast of France
1945	4	18	5	48	HMCS Esquimalt sunk within about 20 km of Halifax.
1945	5	5	1	24	

# **Appendix 4: More Detailed Information about HMCS Cobalt**

#### A4.1 Size

The Cobalt was not a large ship. She was 205 feet long and 33 feet wide (known as the beam in nautical terms). She had a draft of 11.5 feet meaning that up to 11.5 feet of the ship would be submerged below the water line. She had a displacement of 925 long tons. Displacement is a measure of how much ships weigh.

Given the small size of Flower class corvettes like the Cobalt, they could be built in shipyards along the St. Lawrence River and the Great Lakes. Thus, in addition to being built in shipyards capable of building larger ships in eastern locations like Montreal, Quebec City, and Saint John and in shipyards on the west coast around Vancouver and Victoria, they were also built at shipyards in Ontario in Kingston, Collingwood, Midland, and Port Arthur. Almost half of all corvettes built in Canada were built in these shipyards. This allowed the RCN and the allied war effort to take advantage of ship-building capacity that would otherwise be idle.<sup>146</sup>

Although the size of the corvettes could be a disadvantage in rough seas, they were also quite maneuverable. This stemmed from their origins in whaling ships but was just as advantageous when hunting submarines.

## A4.2 Propulsion, Speed, and Range

The Cobalt had a single propeller driven by a simple, proven design of steam engine that was commonly used in merchant ships. This design was easier to construct and maintain than those commonly used in more advanced warships of the era. They were also very reliable.

The powerplant consisted of two fire tube Scotch boilers that produced steam to feed a 4-cycle tripleexpansion reciprocating steam engine that drove the propeller shaft. The engine had an output of 2,750 horsepower.<sup>147</sup>

One advantage of this design was that the Scotch boilers held a large reserve of steam which gave the corvettes good acceleration. Unfortunately, this system took up a lot of space, reducing the amount of fuel that Flower class corvettes could carry and therefore limiting their range.<sup>148</sup>

This propulsion system gave corvettes a maximum speed of 16 knots (29.6 km/h). Not as fast as many other warships, but adequate to keep up with convoys and chase down submerged submarines.

Flower-class corvettes had a maximum range of 3,500 nautical miles (6,482 km) at 12 knots (22.2 km/h).

<sup>&</sup>lt;sup>146</sup> Macpherson, Ken and Milner, Marc. 1993. Corvettes of the Royal Canadian Navy 1939-1945. Vanwell Publishing

<sup>&</sup>lt;sup>147</sup> McKay, John and Harland, John. 2010. *The Flower Class Corvette Agassiz (Anatomy of the Ship)*. Conway Maritime Press <sup>148</sup> https://legionmagazine.com/en/the-humble-corvette-navy-part-27/

## A4.3 Crew and Accommodations

Flower class corvettes like the Cobalt initially had a crew of 4 officers and 48 ratings. However, as more weapons were added and more electronic systems like radar were added the crews increased to 85 or more men.<sup>149</sup> In February 1944, the Cobalt's crew was listed as 6 officers and 78 ratings.<sup>150</sup>

Unfortunately for their crews, the accommodation capacity of the corvettes did not increase accordingly. Accommodations were mainly in the front third of the ships, with some additional space in the back third, the mid-section being occupied almost entirely by the boilers and steam engine. While more accommodation space was added, life aboard the ships became increasingly cramped as crew sizes increased.

On the plus side, the Canadian corvettes used steam from the boilers to heat the ships in the winter, a "luxury" missing on the early corvettes built in the UK.<sup>151</sup>

### A4.4 Camouflage

Camouflage is intended to either conceal animals, people, or objects or to confuse the observer, such as a prey animal or enemy. Although camouflage is all around us in the natural world, it is mostly since the dawn of the 20<sup>th</sup> Century that militaries have made use of camouflage, with military methods of camouflage influenced by artists as much as by naturalists and other scientists.

Camouflage of naval ships is particularly challenging. It is one thing to conceal an infantryman in the forest, but quite another to attempt to conceal a large warship on the open ocean. During the First World War, Britain, the United States, and several other countries adopted "dazzle" camouflage for warships and merchant ships. Far from trying to conceal the ships, dazzle camouflage made the ships far more visible than if they had been painted the stereotypical "battleship grey". Dazzle camouflage was designed to confuse using optical illusions – somewhat like a zebra on the savannah. In particular, the intent was to confuse German U-boats by using highly contrasting colours and shapes to make it more difficult to determine the speed and direction of the ships. The goal was to make it more difficult for U-boat commanders to aim accurately when firing torpedoes. It is difficult to assess how effective dazzle camouflage was since the Royal Navy adopted the convoy system at about the same time, but it certainly led to some unique-looking ships!<sup>152</sup>

<sup>&</sup>lt;sup>149</sup> LeCren, Bruce. 2020. *The Flowers of Canada - The Royal Canadian Navy's Corvettes in World War II*. Originally published in the Nautical Research Journal Spring 2020. http://www.forposterityssake.ca/RCN-DOCS/Flowers-of-Canada-LeCren.pdf

<sup>&</sup>lt;sup>150</sup> HMCS Cobalt, "Fighting Equipment Report", February 23, 1944. From the archives of the Department of National Defence.

<sup>&</sup>lt;sup>151</sup> McKay, John and Harland, John. 2010. *The Flower Class Corvette Agassiz (Anatomy of the Ship)*. Conway Maritime Press

<sup>&</sup>lt;sup>152</sup> https://www.smithsonianmag.com/history/when-british-wanted-camouflage-their-warships-they-made-them-dazzle-180958657/

Olympic with Returned Soldiers, 1919. The Olympic, sister ship to the RMS Titanic, was used as a troop carrier during the war, transporting Canadian and US troops to Europe and then bringing them home again after the war. Like most troop carriers late in the First World War, she sported a very outlandish-looking dazzle camouflage scheme. (Credit: Painted by Arthur Lismer. Beaverbrook Collection of War Art. Canadian War Museum 19710261-0343.)



After the First World War, naval ships quickly reverted to various shades of grey as camouflage. That remained the case when the Cobalt and other RCN corvettes built early in the war were commissioned. All were painted grey overall.

HMCS Kamsack looking pristine in an overall grey paint scheme. Like the Cobalt, the Kamsack was built in Port Arthur, and it is possible that this photo was taken on Lake Superior before the salt water of the Atlantic Ocean had a chance to cause the ship to start rusting. (Credit: source unknown)



In late 1941, the RCN followed the lead of the Royal Navy in adopting a new type of camouflage for use on ships on convoy escort duty. This type of camouflage became known as "Western Approaches". Western Approaches was referred to as a type of disruptive camouflage scheme. Unlike the First World War dazzle camouflage schemes, Western Approaches was intended to be offensive rather than defensive, allowing a closer approach to U-boats on dark nights or in poor daytime visibility (e.g., overcast or foggy conditions, dawn or dusk). It was not effective on bright sunlit days or bright moonlit nights, although it was still an improvement over using a more traditional medium or dark grey. In the Western Approaches camouflage scheme, most of the hull of the ship was painted white. Patterns of pale green and pale blue were added to the hull and the upper part of the ship.<sup>153</sup>

<sup>&</sup>lt;sup>153</sup> Camouflage of Vessels Operating Against U-boats. Lieutenant Peter Scott, Royal Navy Volunteer Reserve. Library and Archives Canada, RG24-D-10, Volume number: 11115

*RCN painting instructions for applying Western Approaches camouflage to Flower class corvettes (Credit: Library and Archives Canada, RG24-D-10, Volume number: 11115)* 



*RCN destroyer HMCS Restigouche in Western Approaches camouflage. (Credit: Canadian Navy Heritage website, image negative number CT-284)* 



HMCS Cobalt in Western Approaches camouflage in 1942. (Credit: source unknown)



HMCS Cobalt, likely in the winter of 1942/1943. The camouflage pattern is consistent with Western Approaches, but the colouring/tones appear to be reversed, with the darker tone on top. This is not the only photo showing this apparent reversal. It is not clear if this was intentional, or if it was due to deterioration of the paint. Some other corvettes did have a reversed scheme such as this, such as HMC Ships Trentonian, Buctouche, Orillia, and Chamby, but mostly later in the war. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



HMCS Cobalt in a different variation of Western Approaches camouflage in early 1943, after her second refit. (Credit: (Credit: Department of National Defence. Photo has been digitally restored by the author.)



HMCS Cobalt between June 1943 and April 1944, with two dark geometric shapes superimposed on the Western Approaches camouflage scheme. Adding elements such as this was not uncommon. W6 is painted in a circle on the funnel. In June 1943, HMCS Cobalt joined escort group W6 of the Western Local Escort Force, indicating that this photo was taken between June 1943 and April 1944 when the Cobalt went for her final refit. (Credit: Collection of Ronald Judges, courtesy of Chanin Graham, personal communication with the author. Photo has been digitally restored by the author.)



Western Approaches proved very effective. There were even reports of challenges at times with escort ships sending messages via signal lamp due to having difficulty accurately aiming the signal lamp at the other ship. However, the scheme was not applicable in all circumstances. In particular, it was not suitable for ships operating in areas with a significant risk of air attack, such as in the English Channel or the Mediterranean Sea. An October 1942, report by a Royal Navy Reserve lieutenant stated that on a hazy day, a corvette in Western Approaches camouflage was spotted by a Coastal Command aircraft at a range of 20-25 miles. Even at 15 miles, the merchant ships in the convoy were just barely visible. In the Western Atlantic, where there was no threat of air attack, Western Approaches camouflage (or variants of it) remained in use for the balance of the war, although a duller off-white began to replace the white in late 1943.<sup>154</sup>

When the Cobalt's third and final refit was completed in July 1944, she was given a distinctive camouflage scheme. The scheme used geometric patterns like those used in Western Approaches, but was much higher in contrast, with the pale green and pale blue of Western Approaches replaced by dark grey on the hull and a medium grey or blue grey on the main gun and other topside features such as the aft gun tub for the anti-aircraft gun. It is not clear why such a high contrast scheme was used for the Cobalt. Few, if any other corvettes used such a high-contrast variant of Western Approaches in the late-war period, making her final camouflage scheme somewhat unique.

<sup>&</sup>lt;sup>154</sup> Memo from the Commanding Officer, "P553" to Captain (D) Halifax, October 23, 1942. Library and Archives Canada, RG24-D-10, Volume number: 11567, File number: D 0-29-3



HMCS Cobalt in Liverpool, Nova Scotia in July 1944, showing her new, highcontrast camouflage scheme. (Credit: Collection of Edmund Ferris, www.forposterityssake.ca)

Later in the war, the degree of contrast in HMCS Cobalt's camouflage scheme decreased as the white darkened. This may have been in part due to the degree of deterioration of the paint.<sup>155</sup> However, in October 1944, the RCN officially transitioned from using white to off-white (a dull, very light grey).<sup>156</sup> It is likely that as the Cobalt was repainted in the never-ending battle against rust, the white applied in July 1944 was replaced with off-white. A combination of the use of off-white, deterioration of the paint, and of course the inevitable rust all contributed to reducing the degree of contrast in the camouflage scheme.

Possibly the last known photo of HMCS Cobalt, April 1945, likely in Halifax. The reduced degree of contrast in her camouflage scheme compared to the previous photo in July 1944 is clearly evident. (Credit: Department of National Defence. Photo has been digitally restored by the author.)



<sup>&</sup>lt;sup>155</sup> A naval message dated September 6, 1942, referred to the quality of paint and that dulling of the white paint was not required. "After one cycle paint no longer appears white." It is not clear what "one cycle" refers to, but it is evident that white paint did not stay white for very long in the harsh conditions of the north Atlantic. HMCS Cobalt's pristine white appearance in Liverpool in July 1944 didn't last very long. Library and Archives Canada. RG24-D-10, Volume number: 11567, File number: D 0-29-3

<sup>&</sup>lt;sup>156</sup> Rear Admiral Murray. October 17, 1944. Ships' Camouflage Designs. Library and Archives Canada. RG24-D-10, Volume number: 11577, File number: D 03-36-4

It is unfortunate that there are not more colour photographs of RCN ships in the Second World War. Records of actual colours applied to individual ships, apart from the Western Approaches colours, are limited. However, black-and-white photos and other records provide ample evidence that a wide range of camouflage schemes and colours were used. While not the same riot of colour and patterns that ships featured late in the First World War, there is no doubt that the array of escort ships tied up in ports like Halifax and St. John's defied the stereotype of "battleship grey" and would have made for quite the sight.

In hindsight, the Second World War was likely the high point of innovation and variety in naval camouflage, given both the number of combatants and the array of naval battlefields which included all of the world's major oceans. Since the war, steady improvements in radar and other sensor systems have made naval camouflage obsolete. The challenge to modern navies is to make their ships less visible not to the human eye, but to radar and other sensors. As a result, in nearly all navies around the world, warships are painted shades of light or medium grey. Rather dull looking!

However, in recent years both the RCN and Royal Navy have re-introduced camouflage, not to hide their ships, but as a tribute to the sailors who fought and died in the Battle of the Atlantic. In 2019, HMC Ships Regina and Moncton were painted in disruptive camouflage schemes, in commemoration of the 75<sup>th</sup> anniversary of the end of the Battle of the Atlantic.<sup>157</sup>

HMCS Regina. Late in the Second World War, several RCN destroyers including Saskatchewan, Ottawa, and Kootenay had a similar camouflage scheme applied. (Credit: Corporal Jay Naples, Copyright: ©2020 DND-MDN Canada.

https://www.facebook.com/RoyalCanadianNavy/photos/a.388933424801732/1114811932213874/?type=3)



<sup>&</sup>lt;sup>157</sup> https://www.rogerlitwiller.com/2023/01/12/hmcs-regina-2/

HMCS Moncton. (Credit: Barry Gerrard, www.forposterityssake.ca)



#### A4.5 Radar

At the start of the war, radar was still in its infancy and there were no radar sets suitable for installation on the early corvettes built in the UK and Canada. However, radar technology improved very rapidly. Its potential value to escort ships like the corvettes was quickly recognized, since radar could be used to detect other ships, day or night, in any weather conditions. This would help avoid collisions in convoys and detect enemy surface ships. Just as important, radar could detect surfaced submarines and, as radar technology improved, radar could detect the periscopes of submarines and breathing apparatus for submarines introduced late in the war that allowed them to operate on their diesel engines and recharge their batteries without surfacing.

Work in Canada led to the first radars installed on Canadian corvettes, beginning in late 1941. This radar, known as Type SW1C (Surface Warning 1<sup>st</sup> Canadian), was not very effective, but it was a start.<sup>158</sup> This radar featured a distinctive antenna installed atop the ship's mast that was shaped a bit like a rake. It had to be turned by hand using a crank inside the operator's room to complete a "sweep" to look in all directions around the ship. In mid-1942, the improved SW2C radar was released and was installed on many corvettes.<sup>159</sup> This radar had an improved antenna that was different from the SW1C antenna, making it possible to identify the type of radar installed based on good-quality photos.

<sup>&</sup>lt;sup>158</sup> More information on the SW1C and the improved SW2C radar is available here: http://jproc.ca/haida/radar.html <sup>159</sup> http://jproc.ca/haida/radar.html

Antenna for SW1C radar atop the mast of Flower class corvette HMCS Drumheller in Halifax in November 1941. (Credit: https://www.canada.ca/en/navy/services/history/naval-service-1910-2010/battle-atlantic-1939-1945.html)



"X" shaped antenna for the SW2C radar atop the mast of HMCS Sackville (author's photo)



In the meantime, work in the UK led to the introduction of a much more advanced radar, known as Type 271, into a few Royal Navy ships in 1941. Installations aboard Canadian ships began in 1942, but due to difficulties in acquiring the new radar from the British, who were prioritizing installation on Royal Navy ships, the RCN's transition to this much-improved radar was slower. There just were not enough of them for everyone.<sup>160</sup>

Like the Type SW1C and SW2C, the Type 271 can be easily identified in photos. The radar had a large Perspex (plexiglass) cover to protect it from the elements. Due to its appearance, this was nicknamed "the lantern". The radar and lantern were installed on top of a small hut that housed the radar equipment and served as the office for the radar operator. The hut and lantern were installed on the aft part of the bridge and formed a very distinctive structure.

Type 271 radar installed on the Flower class corvette HMCS Collingwood. The "lantern" housing the antenna is visible atop the small hut where the radar office was located. (Credit: Library and Archives of Canada, www.forposterityssake.ca)



<sup>&</sup>lt;sup>160</sup> http://jproc.ca/haida/radar.html

The author has not been able to find any written documentation confirming when each type of radar was fitted on HMCS Cobalt. However, given the distinct visual characteristics of the antennas for each type of radar, it is possible to use the many photos taken of the Cobalt during her career, as well as the dates when she went for major refits, to determine the timeframes when each type of radar was installed. The refit dates are important, since installing new radar systems, particularly SW1C and Type 271, required significant work on the ship's structure and electrical systems to install an operator's office, the associated equipment, and the antenna. This type of work could not be completed in a few days while a ship was in port between convoy duty, so it must have been completed during one of the Cobalt's three refits completed in Liverpool, Nova Scotia. The one possible exception to this is the upgrade from SW1C to SW2C. It is possible that this upgrade could have been completed in port, and operator training required to transition from SW1C to SW2C would likely have been more limited, potentially making this upgrade possible between major refits.<sup>161</sup>

<u>SW1C</u>: The author has concluded that SW1C radar was installed as part of HMCS Cobalt's first refit, completed between December 1941 and January 1942. By the end of 1941, 15 RCN corvettes had been fitted with SW1C, so that timing is consistent.<sup>162</sup>

<u>Type 271</u>: The author has concluded that Type 271 radar was installed as part of HMCS Cobalt's second refit, completed in March and April of 1943. Several photos show her with the distinctive "lantern" for the Type 271 radar antenna that were taken before her third refit, completed between March and June 1944.<sup>163</sup> The ship's February 23, 1944, Fighting Equipment Report confirms that Type 271 was installed before her third refit.<sup>164</sup>

During the 1944 refit, the Perspex cover originally installed on the Cobalt when the Type 271 radar was installed was replaced with a frameless design. Operational experience had shown that the wooden frame around earlier lanterns caused interference in the radar signal.

<u>SW2C:</u> It is less certain when HMCS Cobalt was upgraded to SW2C radar. In photos taken between her second and third refits, the SW1C radar antenna is visible. This includes one photo likely taken after June 1943 when the Cobalt joined Escort Group W6. However, this is contradicted by a "Report on Working Up" written in June 1943 to describe the state of the ship and her crew after a workup period following the completion of her second refit. That report states that SW2C is installed but makes no mention of Type 271.<sup>165</sup> Given the differences in the SW1C and SW2C antennas and the photographic evidence that the SW1C antenna was still installed after the Cobalt's second refit, it is not possible to definitively conclude when SW2C was installed without further documentation. It is not clear why the Type 271 radar is not listed in the Report of Working Up when there can be no doubt that it was installed during the Cobalt's second refit. Perhaps it was partially installed but not yet fully operational at the time of the

<sup>&</sup>lt;sup>161</sup> This is an "educated guess" on the author's part, based on the limited amount of information available about each type of radar. SW2C had a different antenna and different equipment in the radar office, but upgrading from SW1C to SW2C would not have required major structural work (e.g., building a new operator's office) or electrical work to facilitate the upgrade. Perhaps not something that could have been completed in a couple of days, but not something that required a month of two out of service as part of a major refit.

<sup>&</sup>lt;sup>162</sup> http://jproc.ca/haida/radar.html

<sup>&</sup>lt;sup>163</sup> During her third refit, the Cobalt's forward deck or fo'c'sle (short for forecastle) was extended aft to improve seakeeping and crew comfort in rough seas. This was a major change that significantly altered the ship's appearance, making it very easy to distinguish between photos of HMCS Cobalt taken before and after her third refit.

<sup>&</sup>lt;sup>164</sup> Obtained from the archives of the Department of National Defence.

<sup>&</sup>lt;sup>165</sup> Source: Library and Archives Canada, RG24, Volume 6909.

workup, pending the final installation of some components. Again, more documentation would be needed to be certain when Type 271 was operational aboard HMCS Cobalt.

The ship's February 23, 1944, Fighting Equipment Report states that, in addition to Type 271, the Cobalt also had SW2C at that time.<sup>166</sup> Despite the installation of the much-improved Type 271 radar, most Canadian escort ships retained the SW1C/SW2C until the end of the war. Although inferior, the SW1C/SW2C radars were "retained by the RCN for aircraft detection and a reserve set."<sup>167</sup>

HMCS Cobalt with Type SW1C radar installed. The antenna is the distinctive T-shaped structure atop the mast. Taken between January 1942 and March 1943. (Credit: unknown. Photo has been digitally restored by the author.)



<sup>166</sup> Obtained from the archives of the Department of National Defence.

<sup>&</sup>lt;sup>167</sup> http://jproc.ca/haida/radar.html

SW1C radar installed aboard the Flower class corvette HMCS Camrose in December 1941. The steering wheel was used to manually rotate the radar antenna. (Credit: https://www.canada.ca/en/navy/services/history/naval-service-1910-2010/battle-atlantic-1939-1945.html)



HMCS Cobalt with both Type SW1C and Type 271 radar. The antenna for the Type 271 radar is housed in the distinctive "lantern" just aft of the bridge, with the equipment and operator in the small hut immediately below the lantern. The date of this photo is unknown, but it was likely taken between taken between April and June 1943. (Credit: Department of National Defence. Photo has been digitally restored by the author.)


## A4.6 ASDIC

ASDIC is known more commonly now as sonar. It was invented in the UK late in the First World War and is named after the Anti-Submarine Detection Investigation Committee (ASDIC).

As described by the Juno Beach Centre:<sup>168</sup>

"The ASDIC emits a sound signal at regular time intervals. The sound waves travel through water and, when they hit a solid body, bounce back as an echo, which is intercepted, amplified and then heard by the operator. The return sound wave also sets in motion a stylus that records the echo on a chart. Position is estimated based on the direction of the echo, and distance based on the delay between emission and interception. The operator will immediately notify the bridge of any suspicious reading.

ASDIC sound impulses use a frequency between 14 and 22 kilocycles; the operator of each ship in a convoy must select a frequency different from that used by the neighbouring vessels; otherwise, he could intercept the original signal from another ASDIC, resulting in a very loud "ping". The transmitter is located in a dome under the hull and the signal is sent forward. In 1940, ASDIC detection could locate a submarine, a whale or a school of fish at a distance of 2,000 metres.

The ASDIC system has its limitations: it is affected by the turbulence created by propellers or by the motion of ships; it becomes inefficient, therefore, once the submarine has succeeded in slipping inside the convoy. In addition, when there are layers of water of contrasting temperatures, the signal is deflected and readings are unreliable, as Canadian operators realized when tracking German submarines in the Gulf of St. Lawrence."

Another limitation of ASDIC is that it could only "see" ahead of the ship. Once a ship passed over a U-boat and launched depth charges (see below), the submarine was in the ship's blind spot. This could be overcome when ships worked in teams to detect and attack submarines.<sup>169</sup>

Despite these limitations, ASDIC was an extremely important tool, as it gave convoy escorts like the Cobalt their only way to see below the surface of the ocean and know if a submarine might be nearby. Without ASDIC, the escorts would have been completely blind unless a submarine came to the surface.



ASDIC worked by transmitting a sound underwater, and the operators then used an underwater microphone known as a hydrophone to hear the reflections of the sound off of a contact, potentially a

HMCS Cobalt – Cobalt's Namesake Goes to War

<sup>&</sup>lt;sup>168</sup> http://www.junobeach.org/canada-in-wwii/articles/anti-submarine-detection/

<sup>&</sup>lt;sup>169</sup> Source for figure: https://merchantships2.tripod.com/ian/ianfergusonshomepage2.html

submarine. Those hydrophones could pick up many other sounds too, from whales to the sounds of ships' propellers, and the sound of submarines below the surface. They also picked up the sound of exploding depth charges – something that could be harmful to the hearing of the ASDIC operators. As a result, the hearing of ASDIC operators was tested periodically.

The ASDIC consisted of several components:<sup>170</sup>

- A sound pulse generator mounted aboard the ship.
- A unit inside a protective dome that protruded below the underside of the ship's hull that transmitted sound and had hydrophones to detect underwater sounds.
- Equipment to allow operators to hear and record the sounds and determine the range, bearing, and depth of the contact. This equipment was housed close to the bridge due to the need for close coordination between ASDIC operators and the commanding officer and other crew on the bridge that would be directing actions if a submarine were detected.

The Cobalt was initially equipped with Type 123A ASDIC. Unfortunately, this type of ASDIC was already considered obsolete at the beginning of the war, but more modern types were not available in sufficient numbers to equip all of the new ships being built, particularly in Canadian shipyards far from the supplies in the UK.<sup>171</sup>

The Cobalt received a more modern and much more effective Type 144 ASDIC as part of her final refit completed in April to July 1944.<sup>172</sup>

As important to detecting and combatting submarines as ASDIC was the type of compass installed on the ship. Both ASDIC and compass readings were needed to know the direction, relative to the ship (the bearing) of a submerged submarine. Early Canadian-built corvettes, including the Cobalt, had older magnetic compasses. More modern gyroscopic compasses were not available in sufficient numbers to equip the large number of ships being built in Canada in the early war period.

Magnetic compasses were not nearly as effective as gyroscopic compasses, especially on a moving ship that was constantly pitching in the sea. Gyroscopic compasses were electronically controlled and stabilized using a gyroscope to give an accurate reading of the ship's course regardless of how much the waves were tossing the ship around. In addition, with a gyroscopic compass system, repeaters could be installed in various locations, including the ASDIC hut, ensuring that both the crew on the bridge and the ASDIC operators had the same compass reading. In contrast, reading a magnetic compass was as much guessing the true direction as anything else, since the compass would never stabilize on a fixed reading due to all of the movement, even if the ship's course (forward direction) was steady. Once the person on the bridge had taken a compass reading, this was communicated verbally to the ASDIC operators, by which time the reading had already changed. This made it harder to maintain an accurate

<sup>&</sup>lt;sup>170</sup> http://jproc.ca/haida/asdic\_sonar\_sys.html

<sup>&</sup>lt;sup>171</sup> https://legionmagazine.com/en/the-humble-corvette-navy-part-27/

<sup>&</sup>lt;sup>172</sup> More information on the Type 144 ASDIC is available at: http://jproc.ca/sari/asd\_et2.html

course, especially at night – an important factor in convoys when ships sailed close together. It also made accurate attacks U-boats more difficult and more art than science.  $^{173,174}$ 

HMCS Cobalt's magnetic compass was even more unreliable than most. A May 31, 1942, memo from the commanding officer stated that:

"The compasses of this ship have never worked satisfactorily and of recent months have been getting steadily worse. It has been observed that after adjustment they are quite satisfactory until the ship encounters heavy weather. Shortly after the ship begins to ship water they become so unreliable as to be useless. Even if by some fortuitous circumstance an azimuth can be observed, it is useless, as the error never remains constant for more than an hour or so. If in company, our only method of obtaining a true course is to line up with other ships, if alone the sounding machine and D.F. have to be relied on, both of which are liable to go wrong at any time."<sup>175</sup>

The Cobalt's faulty magnetic compass contributed to an incident on July 22, 1943. That morning, the Cobalt had departed Halifax in dense fog. The crew lost sight of the ship they were following through the narrowest portion of the harbour and were challenged to maintain an accurate course due to the compass problems. The mouth of Halifax harbour was protected from U-boats by a net suspended from cables. A pair of boats referred to as gate vessels opened the net to allow ships to enter and exit the harbour. As the Cobalt approached the gate vessels, it went off course and its propeller became tangled in the cable supporting the anti-submarine net. Fortunately, the engines were shut down before any damage could be done, but a floating crane was needed to disentangle the Cobalt, and she was taken back to port by a tugboat. She was inspected by divers before being cleared for duty. Both the fog and faulty compass contributed to the collision, as did the currents associated with the falling tide.<sup>176</sup>

When the new ASDIC was installed on the Cobalt in 1944 a gyroscopic compass was also installed, vastly improving her ability to accurately attack submarines. The ASDIC and compass readings were also linked through a fire control system to the hedgehog, a new anti-submarine weapon also installed in 1944.

The new ASDIC equipment was installed in a new enclosed hut installed immediately in front of the bridge. This hut and the bridge itself, much enlarged and altered since built in 1940, gave the Cobalt and other corvettes a much warship-like appearance.

<sup>&</sup>lt;sup>173</sup> LeCren, Bruce. 2020. *The Flowers of Canada - The Royal Canadian Navy's Corvettes in World War II*. Originally published in the Nautical Research Journal Spring 2020. http://www.forposterityssake.ca/RCN-DOCS/Flowers-of-Canada-LeCren.pdf

<sup>&</sup>lt;sup>174</sup> https://legionmagazine.com/en/trying-to-stay-ahead-of-the-pack/

<sup>&</sup>lt;sup>175</sup> Memo from Commanding Officer, HMCS Cobalt, to Captain "D" HMCS Sambro, Halifax. May 31, 1942. Library and Archives Canada, RG24, Volume 11569.

<sup>&</sup>lt;sup>176</sup> Memo from the Commanding Officer, HMCS Cobalt, to Captain (D) Halifax. July 24, 1943. Library and Archives Canada. RG24, Volume 11569.

*HMCS Shediac. The box-like structure on the front of the bridge is the ASDIC hut. (Credit: Ken Macpherson / Naval Museum of Alberta - Canadian Navy Heritage website. Image Negative Number MC-2935.)* 



Hearing test results for the Cobalt's ASDIC operators, March 17, 1945. The operator's service numbers have been removed to protect privacy. (Credit: Library and Archives Canada, RG24, Volume 11358)

in the second	H.M.C.S. C	OBALT		(73 <b>-</b> B)
		DATE:	March 17, 19	945
то:	THE EXECUTIVE OFFI H.M.C.S. COBALT, F.M.O. HALIFAX, N.	CER, S.	Ju	le.
FR OM:	R.C.N. MEDICAL RES R.C.N. HOSPITAL AN HALIFAX, N.S.	EARCH UNIT, NEX,		
SUBJEC	T: Hearing Test re (Date	sults for Asdi : 16/3/45 )	c Personnel	
Name	Fre	q. Discrim. imum Range (#1	Maximur ) in de	h hearing loss ecibels (#2)
Hutchi Jervis James Harris Sweet Rourke	son G. F. C.W. on W.C. V. G.J.		22 27 19 22 25 11	15 15 15 15 35 15
•				
#1. Th wh in #2. Th is 5,	is is a measure of ich can be recogniz his Freq. Discrim. is is a measure of the maximum loss i 000 c.p.s. Values	the smallest d ed. The small Values of 35 the ability to n the range of of 20 and unde	ifference in er the value and under ar hear. The v frequencies r are a pass.	frequency the better e a pass. alue recorded from 50 to

HMCS Cobalt – Cobalt's Namesake Goes to War

# A4.7 Armament

#### <u>Main gun</u>

The Cobalt was armed with a 4-inch Mk IX naval gun. This gun was mounted on a platform in front of the bridge near the bow of the ship and could be used against submarines on the surface as well as surface ships. The gun fired a 31-pound (14.1kg) shell to a maximum range of 13,850 yards (12,660m). The Mk IX was from the First World War, and in the early shipbuilding in the Second World War, guns were taken out of storage for installation on small ships like corvettes and minesweepers.<sup>177</sup>

The Mk IX differed from more modern guns in several ways. Perhaps the most significant difference was that it could not be elevated enough to be effective against aircraft. For most Flower class corvettes, operating in the western Atlantic where there was little risk of air attack, this was not a concern, but in other theatres of the war, this was a significant limitation. Later-built improved, extended endurance Flower class corvettes were fitted with newer QF or quick-firing 4-inch guns that could be elevated to a higher angle, making them more effective against aircraft. Older corvettes like the Cobalt retained their Mk IX guns throughout the war.<sup>178</sup>

The other key difference was the ammunition. The more modern QF guns had fixed ammunition, similar in concept to a rifle bullet, but much larger. In fixed ammunition, the shell itself is fixed to a brass casing that holds the propellant. One-piece ammunition of this type makes it easier to reload the gun, increasing the rate of fire, hence the designation QF. In contrast, the Mk IX had separate shells, with propellant in fabric bags. There was no brass casing. Because the shells were separate, they could be stored in small racks around the perimeter of the gun platform. Propellant charges were stored in ready use lockers adjacent to the gun platform, with additional ammunition stored below decks in the magazine.

There was little in the way of a fire control system for the gun. The gun crew had to aim at a target using the gun sight ... on a moving ship pitching about in the waves. This differed significantly from the sophisticated fire control systems on larger ships which were also more stable gun platforms in rough seas. As a result, the accuracy of the gun was limited, except at very close range. It also didn't help that surfaced submarines were quite small targets to aim at.

<sup>&</sup>lt;sup>177</sup> McKay, John and Harland, John. 2010. *The Flower Class Corvette Agassiz (Anatomy of the Ship)*. Conway Maritime Press

<sup>&</sup>lt;sup>178</sup> Same reference as above.

HMCS Cobalt – Cobalt's Namesake Goes to War

Crew firing the 4" Mk. IX gun of a Flower class corvette while on work-up near Pictou, Nova Scotia.<sup>179</sup> Shells can be seen stored in the small racks around the perimeter of the gun platform. The sailor on the left is opening a leather case used to store the propellant charges. The case protected the fabric-encased explosive from sparks or other sources of ignition. In the right foreground is an empty leather case, perhaps from the round just fired. (Credit: Library and Archives Canada Photo, MIKAN No. 3396602,

https://www.silverhawkauthor.com/post/royal-canadian-navy-rcn-1-history-and-heritage-1939-1943)



Some would argue the corvette's most effective weapon against a submarine on the surface was actually the bow of the ship itself and not the main gun. Given the maneuverability and acceleration of corvettes, they could chase down a surfaced submarine, particularly in poor visibility or if their camouflage worked long enough to get close enough that the submarine could not submerge in time. There are several documented cases of corvettes ramming submarines. While the corvette's bow would be damaged, a direct hit would do far more damage to the submarine and could either sink the submarine or damage it to the extent that it could no longer submerge, making it highly vulnerable to further attacks by surface ships or aircraft.<sup>180</sup>

HMCS Cobalt - Cobalt's Namesake Goes to War

<sup>&</sup>lt;sup>179</sup> This photo is sometimes captioned as having been taken aboard a Bangor class minesweeper. However, this is incorrect. Bangor class minesweepers also used the Mk. IX gun, but they did not have a raised gun platform like the Flower class corvettes.

<sup>&</sup>lt;sup>180</sup> LeCren, Bruce. 2020. *The Flowers of Canada - The Royal Canadian Navy's Corvettes in World War II*. Originally published in the Nautical Research Journal Spring 2020. http://www.forposterityssake.ca/RCN-DOCS/Flowers-of-Canada-LeCren.pdf

The first U-boat to be sunk by the RCN was U-501 which was attacked by the corvettes HMC Ships Chambly and Moose Jaw in September 1941. The Chambly launched depth charges which damaged the submarine, forcing it to surface close to the Moose Jaw. The Moose Jaw's commanding officer opted to ram the submarine. While gunfire may also have contributed, the submarine was sunk by the combination of depth charges forcing it to the surface and then ramming by the Moose Jaw.<sup>181</sup>

*Photo taken as the RCN destroyer HMCS Assiniboine rammed U-210. (Credit: Department of National Defence / National Archives of Canada, PA-037445)* 



### Depth charges

Depth charges were first used against U-boats during the First World War. They were barrel-shaped and filled with high explosives. The Mark VII depth charge used during the Second World War weighed 410 pounds (186 kg) and contained 396 pounds (180 kg) of explosives.<sup>182</sup>

They were detonated by a fuse or "pistol" that was activated by water pressure. The pistol would be preset to explode at a certain depth. Early in the war the maximum depth was 150 feet, but later in the war depth charges could be set to explode as deep as 700 feet.<sup>183</sup>

<sup>&</sup>lt;sup>181</sup> https://thediscoverblog.com/2016/09/09/first-german-submarine-sunk-by-the-royal-canadian-navy/

<sup>&</sup>lt;sup>182</sup> http://jproc.ca/haida/former\_weapons.html

<sup>&</sup>lt;sup>183</sup> http://canadasnavalmemorial.ca/wp-content/uploads/2013/07/Episode-20-Chapter-6-part-2.pdf





Depth charges were launched either by rails mounted on the stern of the ship or by depth charge throwers, a type of mortar that would launch the depth charges off the sides of the ship. Typically, a "pattern" of discharges would be launched using both rails and throwers to increase the likelihood of a successful attack. Weights could be added to the depth charges to make them sink faster, and the order of launching could be adjusted to make a more complex 3-dimensional detonation pattern, further increasing the odds of success.<sup>184</sup>

<sup>&</sup>lt;sup>184</sup> https://legionmagazine.com/en/the-humble-corvette-navy-part-27/

Depth charge launching rails on the stern of HMCS Sackville in Halifax. The small hoist between the rails is used to lift depth charges onto the rails. (author's photo)



Loading the depth charge rails of the Royal Navy corvette HMS Dianthus. (Credit: http://www.cbrnp.com/RNP/Flower/ARTICLES/Dianthus-1.htm. Photo has been digitally restored by the author.)







HMCS Cobalt – Cobalt's Namesake Goes to War

Depth charge thrower. (Credit: drawing by Latham Jenson, http://jproc.ca/haida/former weapons.html)



Loading a depth charge thrower on HMCS Owen Sound. The crew first loaded the carrier into the main cylinder of the depth charge thrower, and now the depth charge is being hoisted into place in the curved bracket of the carrier. When ready to fire an explosive charge would be loaded into the breech at the top of the smaller cylinder atop the main cylinder (see the drawing above). (Credit: Collection of Dan L. Dunbar, www.forposterityssake.ca. Photo has been digitally restored by the author.)



Depth charge exploding astern of HMCS Cobalt. Given the number of people watching, including two cooks, it is likely that this photo was taken during an exercise and is not an actual attack on a U-boat. It may have been taken in August 1944, while the Cobalt was working up near Bermuda after her 1944 refit since the depth charge rails are a newer design installed during that refit. (Credit: Collection of Edmund Ferris, www.forposterityssake.ca. Photo has been digitally restored by the author.)



*Typical types of depth charge attacks using depth charges launched from rails and throwers. (Credit: https://archive.hnsa.org/doc/firecontrol/parth.htm)* 



Illustration of a depth charge attack. (Credit: https://www.ibiblio.org/hyperwar/USN/rep/ASW-51/ASW-11.html)



When depth charges exploded, they created an underwater shockwave. If they exploded close enough to a U-boat, this shockwave would damage the hull, but their destructive radius was limited to about 7 yards.<sup>185</sup> Thus, while exploding depth charges may have looked spectacular, a single depth charge exploding would rarely be sufficient to destroy or seriously damage a U-boat. However, repeated depth charge detonations close enough to a U-boat could sink the U-boat or cause enough damage to force the U-boat to the surface. Sometimes, dozens or even hundreds of depth charges were launched during attacks.

The Cobalt was originally fitted with a pair of depth charge rails, and two depth charge throwers, one on each side of the ship. During the December 1941 to January 1942 refit, two more depth charge throwers were added, increasing the number of depth charges that could be launched in each pattern.<sup>186</sup>

The number of depth charges also increased significantly during the war. The maximum number of depth charges carried at different stages of the war and through various refits is not documented. However, when the two additional depth charge throwers were added, new racks were added along the sides of the aft cabin, increasing the density of storage and roughly doubling the number of depth charges available for the depth charge throwers. After the minesweeping gear was removed (see below) additional rails for storing depth charges were added where the mine sweeping winch had been located. Lastly, during the 1944 refit, new depth charge launching rails were installed that stored additional depth charges under the launching rails.

<sup>185</sup> http://canadasnavalmemorial.ca/wp-content/uploads/2013/07/Episode-20-Chapter-6-part-2.pdf

<sup>&</sup>lt;sup>186</sup> Date of installation inferred based on photos take at different times in the Cobalt's history.

HMCS Cobalt, likely soon after her December 1941-January 1942 refit was completed. The enlargement shows the second pair of depth charge throwers installed, but she still has her minesweeping gear installed at the stern. (Credit: unknown)





On the next two pages is a "Report of Attack on U-Boat" by HMCS Cobalt, carried out on May 19, 1942. In three separate attacks carried out over 30 minutes, the Cobalt launched 21 depth charges. As noted in the report, the attack was abandoned, and the presence of a submarine was not confirmed. (Credit: Library and Archives Canada, RG24, Volume 11358)

5					011 0	DOM				
τ.	SHIPII.	M.C.S. COBAL	r	Duty on which Convoy No. ar	Duty on which employed, or Convoy No. and Escort station Station Ahead.					
2.	SHIPS and	AIRCRAFT in com	pany Q 050	6, Q 057.						
3.	SIGHTING OR FIRST CONTACI	Date 19 May Time 1844 Zone Z 1	7, 1942. D		4. Position $\begin{cases} Lat. 46 33 N \\ Long. 57 25 W \\ Reliability Good \\ 180 Fa thoms. \end{cases}$					
	Wind N.	W Force	2 Sea	11	ather bc	Visibility 1	.5 mil			
	Direction a	and Rate of Tidal Str	eam	b	Knots	Moon	_			
	REASON ATTACK	FOR   -Sighting-A	sdic contact—H. ck—any other re	E. contact A sdi Q 056 ha ason previous	c Contac d contact	Initial 170	0 Yds.			
	DEPTH CH.	ARGE ATTACKS.	1st ATTACK	2nd ATTACK	3rd ATTA	th ATTACK	5th ATTA			
	TIME OF A	ATTACK	1850	1905	1920					
	(*	a) Inclination	Closing	Closing	Closi	ng	-			
	. Nature of Contact (b) Hydrophone Effect or Whistle Effect. (c) Did target appear to move		None	None	None					
			Yes	Yes	Yes					
<b>)</b> .	Range at w contact was	Range at which		200	300					
<b>.</b>	Names of c in contact	other Ships }	Q 056							
2.	Method of obtaining Time to Fire	Recorder—Log— Directing Ship— StopWatch—, Eve	Stop Watch	Stop Watch.	Stop Watch					
154	Was Contac Re-establish	t ned after attack }	Yes	Yes	Yes					
	Asdie Condi	tions	Good	Good	Good		**** **** **** **** ****			
		/(*) Type used]	Ak VII Lig)	t Mk Vll-Ligh	Mk V11 1 t Mk 1X 1	light lea vy				
		and/or fired from throwers	Four	Five	Twelve					
	DEPTH CHARGES	(c)Depth	100	150	150 385					
	Settings Throwers	100	150	150 385						
		(d) Failures	Тую	None •	Two					
	Result of A bubbles, oil	ttack (including air or wreckage)	Nil	NII	Small p believe Depth (	atches of oil d to be from Charges.				
	Germandin After t (25 deg	g Officer's Opinion. chird attack, grees a t 800	extent of yards.)	target appe	ared to g	row too large	,			

[Continued overleaf.

18.	ATTACK BY GUNFIRE. (a) Size of Gun (b) Range on opening fire (c) Type of shell and fuze (d) Na of Bounda fired	(e) , (f)	No. of hits and their position Were all shells which hit seen to burst or penetrate ?
19.	(a) No. or Rounds med	( <i>d</i> )	Course and speed of enemy
	(b) Depth set	(e) (f)	Ship's head on firing

20. NARRATIVE .- (Including sketch and description of U-Boat or wreckage. If hunt was abandoned, give reasons).

Convoy was proceeding on a westerly course. Cobalt stationed ahead, Q 056 on port beam, Q 057 on starboard beam. At 1750 Q 056 hoisted Black Pennant and reported by light that she was in contact with a suspected submarine. A t this moment Cobalt's A sdic broke down. Cobalt remained at about 2000 yards range while H.S.D.'s Pimlott and Friha gen repaired the set. Meanwhile Q 056 carried out four attacks. A t 1840 Cobalt's A sdic was again operating, but the recorder was not marking and there was considerable interference in the phones in the form of crackle and whine. We obtained a good echo bearing 120 degrees, 1200 yards, extent 15 degrees, inclination closing. We ra n across it and dropped a five-charge pa ttern medium depth. The <code>xmxt</code> thrower failed to fire and the second and third sta rboa rd

charges dropped from the rails misfired.

The echo was regained bearing 105 gegrees. Range was opened to 1400 ya rds. Contact was a ttacked again with a deep five-charge pa ttern.

Range was opened to 1200 yards and was atta cked aga in bearing 350 degrees with a ten-charge pa ttern set deep. A t this time the interference in the set became much worse.

The conta ct was regained, but its extent a ppea red to be growing too la rge for a submarine- 25 degrees a t 800 yards. A lso the range was now changing too quickly. Therefore the hunt was abandoned.

Following is a rough sketch of the ship's movements. There is no plotting orga niza tion on board.

A 11 a tta cks were ca rried out by M.R.C.S. Table and Stop-Watch.



NOTE.-Recorder Trace and Diagram of Attacks are to be attached to the original copy of this Report.

### Hedgehog

The Hedgehog was first developed in 1940 and entered widespread use in 1944. The Hedgehog was very different than depth charges and overcame the loss of ASDIC contact associated with depth charge attacks.

The Hedgehog was a type of mortar that launched up to 24 projectiles 200 to 300 yards (180 to 275m) in front of the ship. These projectiles were much smaller than depth charges, with just 35 pounds (16kg) of explosive but they would only explode if they came in contact with a submarine. If they did contact a submarine and explode, they could cause severe damage despite the much smaller amount of explosives.<sup>187</sup>

Although Hedgehogs were limited in that they had to be fired directly in front of the ship, meaning the ship had to be pointed at the target, the Hedgehog was much more effective than depth charges. Combined with better ASDIC, the Hedgehog was a very potent anti-submarine weapon. During the Second World War, out of 5,174 British depth charge attacks, there were 85.5 kills, a ratio of 60.5 to 1. In comparison, the Hedgehog made 268 attacks for 47 kills, a ratio of 5.7 to 1.<sup>188</sup>

The Cobalt's Hedgehog was installed during her April to July 1944 refit completed in Liverpool Nova Scotia.

Hedgehog launcher and a schematic of a Hedgehog attack. (Credit: http://canadasnavalmemorial.ca/wp-content/uploads/2013/07/Episode-20-Chapter-6-part-2.pdf)



 <sup>&</sup>lt;sup>187</sup> http://canadasnavalmemorial.ca/wp-content/uploads/2013/07/Episode-20-Chapter-6-part-2.pdf
 <sup>188</sup> https://www.silverhawkauthor.com/post/royal-canadian-navy-asdic-anti-submarine-sonar

#### Anti-aircraft guns

Corvettes carried a range of weapons for defence against attacking aircraft. Due to a shortage of such weapons early in the war, and the very low risk of air attack in the western Atlantic, fitting out the Canadian corvettes with their intended anti-aircraft guns took time. The ships were all built with a platform or bandstand near the stern of the ship intended to mount a heavy calibre anti-aircraft gun. Initially though, this bandstand was used for lighter weapons.

Initially, the Cobalt did not carry any anti-aircraft guns, and the earliest photos of her in-service show this bandstand was empty. There may have been some light machine guns mounted on the bridge, but based on the photos available, it is impossible to confirm this.

Sometime in 1941, guns were mounted in the bandstand and by November 1941 when the Cobalt was photographed in Iceland, the guns were visible. However, in all photos available of the Cobalt that show this bandstand during the period that these guns were installed, the guns are covered in fitted tarps to protect them from sea spray, which was common practice.

Based on the shape, and guns known to be fitted to other Canadian corvettes during the same period, it is likely the anti-aircraft guns mounted in the Cobalt's bandstand were two twin-mountings of heavy Vickers machine guns firing a 0.5-inch round. If anti-aircraft guns were fitted on the bridge during that period, they would been single or twin-mounts for light Lewis machine guns firing a 0.303-inch round (same size as standard infantry rifles).

These guns would have been of limited use against aircraft except at very short range, and the Lewis guns in particular would have been of little use against a surfaced submarine. Fortunately, since the Cobalt operated mostly in the western Atlantic, her early lack of ability to defend herself against aircraft was not a problem.

Twin-mounted heavy Vickers machine guns in the bandstand of HMCS Drumheller. (Credit: Collection of LS Bernard (Bunny) Brewster, www.forposterityssake.ca. Photo has been digitally restored by the author.)



During her refit in Liverpool, Nova Scotia in March-April 1943, the machine guns were removed, and the Cobalt received a significant upgrade in her anti-aircraft weapons. The gun that the bandstand was originally intended for was finally installed.<sup>189</sup> This was a much heavier gun firing shells weighing two pounds at about 100 rounds per minute.<sup>190</sup> The gun, known as a pom-pom due to the sound made when firing, was much more effective against aircraft than the previous smaller calibre machine guns. However, like the 4-inch main gun, there was no fire control system – the gun was aimed by the gunner using the sights mounted above the gun. In addition, the mount was hand-operated for both traverse and elevation of the gun.<sup>191</sup> This would have made accurate aiming at a fast-moving aircraft quite difficult. However, the pompom could also be used against surfaced submarines and at close range, fire from the pompom could be very effective.

<sup>&</sup>lt;sup>189</sup> A report from the Cobalt's work-up period conducted after the 1943 refit was completed indicates that the pompom was part of the ship's armament at that time. This, combined with photographic evidence, confirms that the pompom was installed as part of this refit. Library and Archives Canada, RG24, Volume 6909.

<sup>&</sup>lt;sup>190</sup> http://www.navweaps.com/Weapons/WNBR\_2pounder\_m8.php

<sup>&</sup>lt;sup>191</sup> https://www.silverhawkauthor.com/post/royal-canadian-navy-qf-2-pounder-pom-aa-gun



*QF 2-pounder Mark VIII pom-pom from the corvette HMCS Kamloops, at the Canadian War Museum in Ottawa. (author's photo)* 

*QF* 2-pounder Mark VIII pom-pom aboard HMCS Sackville. The sights for aiming the gun are clearly visible (author's photo)



During the Cobalt's December 1941 to January 1942, bridge "wings" had been added, enlarging the working space on the bridge. As part of the 1943 refit, another much more potent anti-aircraft gun was added to the bridge wings – a single 20mm Oerlikon cannon on each side of the bridge.<sup>192</sup> The cannons fired a much heavier round to a much longer range than the previous machine guns and fired 250 to 320 rounds per minute.<sup>193</sup> The cannons could also be used against surfaced submarines.

<sup>&</sup>lt;sup>192</sup> As with the installation of the pom-pom, a report from the Cobalt's work-up period conducted after the 1943 refit was completed indicates that two 20mm cannons were part of the ship's armament at that time. This, combined with photographic evidence, confirms that the 20mm cannons were installed as part of this refit. Library and Archives Canada, RG24, Volume 6909.

<sup>&</sup>lt;sup>193</sup> http://www.navweaps.com/Weapons/WNUS\_2cm-70\_mk234.php

20mm Oerlikon cannon on HMCS Sackville in Halifax. The platform around the pedestal was installed on some Canadian corvettes, allowing the gunner to stand higher and aim the gun lower, making it easier to shoot at a surfaced submarine. It is not known if the Cobalt had this type of platform. (author's photo)



The Cobalt may have also carried one other device to help protect it from air attack. Calling this a weapon could be a bit of a stretch. In 1940, when Britain was desperate for any way to protect itself from German air attack, rocket technology for launching rescue lines from land to stranded ships at sea was adapted for defensive purposes. The rocket was used to launch a long length of steel cable up to 2,000 to 3,000 feet into the air. When the rocket ran out of fuel, a small parachute deployed at the top of the cable, allowing the cable to slowly descend. The device was called a Parachute and Cable (PAC) system. The idea was that low-flying attacking aircraft could become entangled in the cable, damaging the aircraft and causing it to break off the attack or even crash. The rocket and cable were launched from a projector.<sup>194</sup> PAC systems were installed at some Royal Air Force airfields in early 1940 and some were also installed aboard smaller ships operating in coastal waters around Great Britain as well as on some larger ships.

<sup>&</sup>lt;sup>194</sup> https://www.kenleyrevival.org/content/new-contributions/parachute-and-cable-schermuly-not

In the book *Anatomy of the Ship – The Flower Class Corvette Agassiz*, there is a reference to Canadian corvettes being equipped with PAC systems. Specific to HMCS Cobalt, the Department of National Defence archives include a form completed on February 23, 1944, titled "Fighting Equipment Report" which lists two PAC projectors among the equipment that the Cobalt carried at that time. By that time, PAC projectors would have been completely useless, especially with the much more effective anti-aircraft weapons that the Cobalt was armed with. Nonetheless, this substantiates that she did carry this odd device, although the device in the photo below may be for launching signal flares.

One of several photos of the Cobalt taken between January 1942 and March 1943 that shows what may be one of two PAC projectors mounted atop the bridge. The inset photo, from the January 1943 edition of Popular Mechanics, shows two Royal Navy sailors with a PAC projector. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



On the next two pages is HMCS Cobalt's "Fighting Equipment Report" from February 23, 1944, listing all of the weapons and other equipment fitted to and carried aboard the ship at that time, copied from the archives of the Department of National Defence.

				179			ENTERED F.E.C.A. KDX.
CANCELLED							APR 4 (1144 201)
			" <u>P3 GU7250 2</u>	2011007.20 <b>3</b>	O(31"	6	er. mo.
H.J.,C.S. COBALT				CLAUS	Corvette (	flace	en) 15124
This form is to be trative Authority, in ac 2. The first copy is	comple cordance to be :	eted at the with Control of Contr	to Carliest per NO Nº 271 of to NSH2 impails	sible moment the 12th Feb ately, one c	in triplication ruary, 1944.	e by th	tis Chips idminis
copy is to be retained by	y the J	dministr:	tive Authority				
<ol> <li>If any item of equ left blank Additional attached hereto</li> </ol>	ipment itoms :	on this : for which	form is not fit there is not sp	tod, the spe pace on this	ce opposite the form, are to b	e approj De liste	white booling is to b d on a second form an
To: The Socretary Naval Naval Service Headque This report has been	l Board uarters n chock	of for P.1 Ottawa	C.A.	ory particul	a*.	,	
Date form 23/2/44		Admin Authori	ty (Signod )	PRE	TICE.	us de	CAPTAIN, BLON TAIN "D" HALIFAX
ARCAUSINT	T						
TYPE & MARE OF CUN	Mir 1	206.10	TYPE & MARE	OF MTG.	REG NO.		LOCATION
a) 4ª BL	211		Mk 1	-	10 08	For	ecastle.
b)						-	
0)							
ā)	1.						
2 Close Range						alexa a	
a) Oerlikon	53	+07	Mk IV	1	42819	Brid	ge.
b) Oerlikon	44	076	Mk IV	1	51885	Brid	ge.
a) PomPom Pet AkVi	89	547	2 Par Mk	VIII	202	Aft.	Deckgun.
4)	319	967	MI- TM	D	SPARTMENT OF	MARK	TAL DEFENCE
a/ 2 Bren	117	51	MA IM		he chose into icu	ter sta	docu-
e) 4 Sten	OL9 OLS	159	Mk II		ent la com	1	incity of
<u>f)</u>	OLS	212	Mk II		A	201	
g)	-				12	1-	non d
h)				/	for Direc	History	octorate of
ITEM	Q77Y.	TYPE, S	ise or mark	1	ITEM	UTY.	TYPE SIZE OR 12. K
3 Main Armt Fire Cont.	2	Voice	Pipe Phone	9 Tubes			
4 Close Rge .Fire Cont	1	To D/C	& PomPom	mPOID 10 Torps normally carr d			
5 Rifles	6/	No.4 M 2816721 2910200	29L0988 ,28L8332	11 MBCDC norm carried			
Line Throwing Rifl 6 Pistols	.e 1/	2818888 1000	73700	A.T.H. 12a)Hodgeh	og ()	-b) Squ	na ()
Smith & Wesson	6	36380	13892	13 Control	Goar	-	
7 P.A.C. Projectors	21	Snowf	Lake	DEPTH CHARGES			
8 Rocket Flares	2	1 Lb.	)	an et al		4	Mk IT
S-015	2	Very 1	Pistols	15 Thrower		-	rus ad
	Gra	n'e d	5/11/40			M	AR 27 RECO

HMCS Cobalt – Cobalt's Namesake Goes to War

FIGHTING BAUIPMENT REPORT	(cont	<u>a_)</u> Pag	o 2.		S. Salar
TTEM	QTY	TYPE SIZE OR MARK	ITEM	arr.	TYPE SIZE OR MARK
DEDEU CUARCES (contá )			44 SEARCHLIGHTS	1.	24" 500 Watt
16 Auto Firing System			hu w/T TRANSMITTERS		110
17 RALLS	2	9 charge	a)	1	PV 500H Serial/
18 Trap	2	Mk I X	b)		
19 Churas				-	
20 D/C s normally carried	6) E	latwoon dacks	s)		
MDRESHSEPDIG 2) Oropasa			*)	/	
22 L.L			15 W/T Receivers MSL5		Serial 513 Serial 151
23 S A			ME non anofoi you	P12	Serial 108
24 Paravanes			LLG CUTP & BOATS	nici o	act and and
25 M/S Winch	-		Start Build	10	10. 2
% Davits			NO CADEN MOURS	6	20 men
27 TOHED NOISE MAKER	) 61	ca+ (30 inch.)			
31067		Pare h	48 6130	Nil	and the second
28 Floar- norm carried	8		49 BOTTLE TRANSAUTTER		
29 C S A Apparana-	-		50 LOCATION OF GYRD REPEAT	reas -	e
30 ASDIC	1	123D /	Wheelhouse	9	f)Tiller Flat
	-	WIC &	b Pelorus Bridge	10.00	g)Radar Cabin
3. BCHO SOUNDING	1	256 Serial 359	Bridge Starh-d		h)Bridge Shelter
	-		A)Bridge Port		1)
32 LOG	1	Walker's Tride	t Chart Ranass		1)
43 PLOT	1	Gladstone /	a company long long lo		Steam or Diesel
H RADAR and T F F	2	2710 × SW2C √	s) Main 1 20	OKW	Heilis & Hascom Steam
b)(d			5) Turbo 1 1	5KW	Steam
1		- 16- 10- 10- 10- 10-	(0)	1.	1
a)			52 SHIP S & Max Load 175	/325 amp	s. b)Supply110 volt
-1			53 LON FONER INSTALLED Y	08 (	) No( No
*)		1	54 D/G External (		Atorgai Partially
35 LORAN	1	1 M	55 NO OF BINOCULANS CARR	110 4	x 630 7.
BAR/DR MDEST	1	Serial 101	56 NORMAL COMPLEMENT		
37 HF/DF			a) Officers 6	~	b)Ratings 78
38 VHF/DF		1	SPECIAL EQUIPMENT		4
39 LOUD HALL	1	Type TE129-B1-2	*12 Portable Sig	.Lan	tern Type 1038
40 S R E	1	Type 457 Serial	171 12 Night Flashi	ng T	orch Type 16001
41 SIGNALLING LAMPS	2	\$5110D	1 Box Lamp Ty	pe 4	298
42 SIGNAL PROJECTORS	27	Ser. 4497, 4498	a)		
		BIO	<u>inoculars</u> x 50 239667 267410 30223	6x3	0 5828-C 9066-C 9057-C 6132-C

HMCS Cobalt – Cobalt's Namesake Goes to War

### A4.8 Minesweeping Gear

Unlike Flower class corvettes built for the Royal Navy, those built for the RCN were originally intended to be multi-purpose ships. While the Royal Navy built their corvettes to be convoy escorts and anti-submarine ships, the RCN intended that they would operate in inshore areas and would be used for a range of roles such as patrolling the coastline, minesweeping, rescue work, and anti-submarine warfare.<sup>195</sup>

As a result, they were equipped to take on submarines but were also equipped to sweep (remove) sea mines. Some German U-boats were equipped to lay mines, and if mines were ever laid outside a Canadian harbour such as Halifax, the corvettes could be used to remove (sweep) those mines.

Minesweeping gear consisted of two torpedo-shaped floats known as Oropesas (also known as paravanes). When minesweeping, these would be lowered into the water and towed behind the ship using a serrated wire which would cut the cables that moored sea mines to the sea floor. If the wire cut through a mine's mooring line, the mine would float to the surface and it could be destroyed with explosives or gunfire.<sup>196</sup>

The minesweeping gear took up a lot of space. In addition to the two Oropesas and racks to store them on, there was a large winch and type cranes to lower the Oropesas and lift them out of the water again.

The role of Canadian corvettes changed almost as soon as they were commissioned. The war had changed, the threat of U-boats became much more serious than the RCN had anticipated, and the RCN's corvettes were needed to fulfill the same role as their Royal Navy sisters. As a result, the minesweeping gear was rarely if ever used.

In later refits, the minesweeping gear was removed from all Canadian corvettes that had it installed, including the Cobalt. Based on various photos of the Cobalt, it is likely that her minesweeping gear was removed during the March-April 1943 refit completed in Liverpool, Nova Scotia. Minesweeping gear is not listed in the above Fighting Equipment Report from February 1944.

Even after the minesweeping gear was removed, the Canadian corvettes were left with a distinctive look compared to the Royal Navy corvettes. To accommodate both minesweeping gear and depth charge rails, Canadian corvettes had a squared-off stern rather than a rounded one. In addition, the make room for the large winch needed for minesweeping, the galley on Canadian corvettes was moved forward to behind the wheelhouse, and the engine room casing (the cabin towards the stern of the ship) was shortened by about 7 feet compared to the British corvettes.<sup>197</sup>

<sup>&</sup>lt;sup>195</sup> https://legionmagazine.com/en/the-humble-corvette-navy-part-27/

<sup>&</sup>lt;sup>196</sup> http://www.minesweepers.org.uk/sweeping.htm

<sup>&</sup>lt;sup>197</sup> McKay, John and Harland, John. 2010. *The Flower Class Corvette Agassiz (Anatomy of the Ship)*. Conway Maritime Press

Launching the Oropesa from HMCS Alberni during a training exercise off the coast of British Columbia in March 1941. (Credit: Library and Archives Canada / PA-179942, www.forposterityssake.ca)



*Crew operating the minesweeping winch aboard HMCS Alberni. (Credit: Library and Archives Canada / PA-179950, www.forposterityssake.ca)* 



Stern of HMCS Cobalt, showing the two cranes for the minesweeping gear (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author.)



HMCS Cobalt – Cobalt's Namesake Goes to War

# A4.9 Cables and CATS – Protecting the Corvettes

The Second World War was very much a war of competing technologies. As each side developed new weapons to try to get an edge, the other developed countermeasures or better weapons to outgun the other. The rapid development of radar during the war, improvements in ASDIC, and the introduction of new weapons like hedgehogs illustrate that. However, the Germans were also constantly innovating. One example was in mine warfare.

The minesweeping gear described in the previous section was intended to disable or destroy sea mines that floated below the surface of the water, held in place by cables with weights on the sea floor. These mines exploded on contact, and they are the type of sea mines commonly portrayed in movies – large balls with short spikes sticking out of them.

However, with the outbreak of the war in 1939, the Germans began laying a different kind of mine in the waters around the United Kingdom – magnetic mines.

The following description of how magnetic mines work, and how the countermeasure – degaussing cables – worked is based on a 1946 paper *The Defeat of the Magnetic Mine*, by Sir Charles Goodeve.<sup>198</sup> Goodeve was a Canadian scientist who became Deputy Controller for Research and Development, the Admiralty (Royal Navy). Goodeve was instrumental in the development of degaussing and also in the development of the hedgehog.<sup>199</sup>

As steel ships move through the water, and through the earth's magnetic field, they become slightly magnetic and have the effect of locally concentrating that earth's magnetic field. As a result, the magnetic field becomes stronger in the water below the ship because of the way that the steel in the ship changes the magnetic field.

The British had developed the first magnetic mines, and while both Britain and Germany continued to develop improved magnetic mines between the wars, the Germans were the first to deploy them at the outbreak of the Second World War.<sup>200</sup> Magnetic mines were laid in relatively shallow water, such as the estuary of the Thames River downstream from London, using either aircraft or submarines equipped to lay mines. They were difficult to detect, neutralize, or remove, and once German magnetic mines were known to be in a shipping channel, the channel needed to be shut down until it could be made safe, leaving ships waiting at sea and vulnerable to attack by German submarines or aircraft.<sup>201</sup>

The mines had a detonator that used a magnetic needle, like that in a compass. When a ship passed over the mine, the disturbance in the magnetic field would cause the needle to move, aligning it with two electrical contacts and completing the circuit. When that electrical circuit was completed, the mine exploded, often with devasting results for the ship sailing above it.

<sup>199</sup> https://naval-museum.mb.ca/people/sir-charles-goodeve/

HMCS Cobalt - Cobalt's Namesake Goes to War

<sup>&</sup>lt;sup>198</sup> C.F. Goodeve. 1946. The Defeat of the Magnetic Mine. *Journal of the Royal Society of Arts*, Vol. 94, No. 4708 (JANUARY 4th, 1946), pp. 81-90 (10 pages). https://www.jstor.org/stable/41362967?read-

 $now=1\&oauth\_data=eyJlbWFpbCI6ImxlZnR5eHhAZ21haWwuY29tIiwiaW5zdGl0dXRpb25JZHMiOltdLCJwcm92aWRlciI6Imdvb2dsZSJ9\&typeAccessWorkflow=login&seq=1\#page\_scan\_tab\_contents$ 

<sup>&</sup>lt;sup>200</sup> https://medium.com/war-is-boring/how-britain-beat-germanys-wwii-magnetic-sea-mines-bfec5558704c

<sup>&</sup>lt;sup>201</sup> Same reference as above.



Drawing from Charles Goodeve's paper, The Defeat of the Magnetic Mine, illustrating how the earth's magnetic field, represented by the vertical lines, is disturbed by the steel structure of a ship.

The British soon had a stroke of good fortune though. In November 1939, a German aircraft dropped two magnetic mines on tidal mudflats near the mouth of the Thames River. A soldier on shore saw them fall from the aircraft by parachute and reported the incident. The hunt for the mines was on, and Churchill wanted the mines found "at all costs".<sup>202</sup> A couple of nights later, one of the mines was found at low tide. Royal Navy and British army crews were able to defuse the mine, recover it from the mudflats, and then analyze the mechanism used to detonate the mine. They were able to determine the strength and duration of the magnetic field that would trigger the mechanism.

Knowing how the mechanism worked allowed the British to develop a countermeasure, known as degaussing (gauss is a unit of measure of magnetism, hence degaussing, which was coined by Charles Goodeve). The main method of degaussing was to wrap an electrical coil, known as a degaussing cable, around the perimeter of the ship. An electrical current was passed through the cable that produced a magnetic field equal in magnitude to the disturbance created by the ship, but in the opposite direction (recall that magnets have poles and will be attracted or repelled based on the orientation of their poles). With this electrical field applied, the ship would no longer disturb the earth's magnetic field and would not set off the magnetic mines. Essentially, it was a "cloaking device" that made the ship undetectable by magnetic mines.

<sup>&</sup>lt;sup>202</sup> https://medium.com/war-is-boring/how-britain-beat-germanys-wwii-magnetic-sea-mines-bfec5558704c

The first degaussing cables were installed within days of development, and hundreds of ships, including corvettes like the Cobalt, had degaussing cables installed. They proved highly effective and although the Germans developed newer magnetic mines to overcome the effectiveness of degaussing, this type of mine was far less successful than the Germans had hoped.

Although magnetic mines proved not to be a hazard along the east coast of North America, having the degaussing cables installed provided the necessary protection if HMCS Cobalt had ever encountered a magnetic mine.<sup>203</sup>



<sup>203</sup> Interesting side note: merchant ships operating in areas where magnetic mines had been laid during the war used degaussing cables for decades afterwards to protect then from any undetected and unexploded magnetic mines.

Stern of the corvette HMCS Midland. The four cables of the degaussing system, installed on the bulwark (the low wall around the outside of the ship) are clearly visible. (Credit: Collection of Harold W. Bee, www.forposterityssake.ca. Photo has been digitally restored by the author)



A second threat came in 1943 - a new type of torpedo. Until that time, torpedoes, launched from a submarine, surface ship, or aircraft, went through the water in a straight line. Thus, when firing from a submarine, the whole vessel had to be aimed and pointed ahead of the moving target ship so that the paths of the ship and the torpedo would converge, resulting in the torpedo hitting the ship. If ships under attack could see a torpedo coming, rapid changes in direction could help ensure that the torpedo missed its mark.

The new torpedo was called an acoustic torpedo. As it approached a target ship, sensors in the torpedo detected the sound of the ship's propellers and engine and were able to steer the torpedo towards the sound, hitting the ship near the stern. The U-boat captain still needed to aim the U-boat in the right direction since the acoustic torpedo could only "hear" the target ship from a few hundred yards away, but once within range, the torpedo was able to steer itself. This made acoustic torpedoes much more accurate.<sup>204</sup>

When the U-boats began deploying acoustic torpedoes, they had an immediate impact. At a time when the Allies had gained an upper hand in the Battle of the Atlantic, the Germans again thought that they had a game-changing weapon that would again give them the advantage.

HMCS St. Croix was one of the new torpedo's victims. The St. Croix was one of the old US Navy destroyers that had been given to the Royal Navy in 1940 and had subsequently been given to the RCN. On the night of September 20, 1943, the St. Croix was hit by an acoustic torpedo while operating as part of an anti-submarine strike group in the Bay of Biscay off the coast of France. More than 80 survivors of the St. Croix we rescued by HMS Itchen. Tragically, two days later the Itchen was also torpedoed and sunk. Only one man from HMCS St. Croix survived.<sup>205</sup>

HMCS Cobalt – Cobalt's Namesake Goes to War

<sup>&</sup>lt;sup>204</sup> https://www.ibiblio.org/hyperwar/USN/rep/ASW-51/ASW-15.html

<sup>&</sup>lt;sup>205</sup> http://www.forposterityssake.ca/Navy/HMCS\_ST\_CROIX\_I81.htm

German success with the acoustic torpedo was relatively short-lived, however. One of the countermeasures that the Allies introduced was remarkably simple - put something in the water that made more noise than the ship, creating a decoy target for the torpedo. The Canadian Anti-Acoustic Torpedo (CAT) gear did just that.

The CAT gear was designed by scientists from the National Research Establishment (NRE) in Halifax. The prototype of CAT gear was designed within a day of NRE scientists being informed of the German use of acoustic torpedoes. Drawings were drafted, production began immediately, and within 17 days the first CAT gear was installed on RCN ships. The CAT gear consisted of a small device towed about 200 yards behind a ship. Two steel rods were held in a steel frame and as the device was towed, these rods clapped together, making enough noise that the acoustic torpedo would home in on the CAT gear rather than the ship itself.<sup>206</sup>

The US Navy adopted CAT gear and modified the design, and the Royal Navy introduced a similar noisemaking device.<sup>207</sup>

However, CAT gear and other noise-making devices were not ideal. One problem was that towing the CAT gear limited the ship's maneuverability. Most significantly however, the noise of the CAT gear not only disrupted acoustic torpedoes – it also disrupted ASDIC operators. The sound of the CAT gear was so loud that it made it difficult for the operators to hear the sounds emitted by the ASDIC being reflected back by submerged submarines.<sup>208</sup> Recognizing this problem, the NRE figured out how to stop the CAT gear from making noise by releasing the tension on the tow cable.<sup>209</sup> With this and other refinements, CAT gear continued in use through to the end of the war.

CAT gear and other noise-making devices proved effective. Despite the initial success of German acoustic torpedoes before countermeasures were introduced, and despite the potential for these torpedoes to be much more accurate than conventional torpedoes, only 77 of over 700 German acoustic torpedoes fired hit their targets.<sup>210</sup>

<sup>&</sup>lt;sup>206</sup> Cristina D. S. Tollefsen. 2018. Canadian Innovations in Naval Acoustics from World War II to 1967. Acoustics Today, Volume 14, Issue number 2. https://cradpdf.drdc-rddc.gc.ca/PDFS/unc313/p807003\_A1b.pdf

<sup>&</sup>lt;sup>207</sup> Same reference as above.

<sup>&</sup>lt;sup>208</sup> https://www.ibiblio.org/hyperwar/USN/rep/ASW-51/ASW-15.html

<sup>&</sup>lt;sup>209</sup> http://jproc.ca/haida/torptube.html

<sup>&</sup>lt;sup>210</sup> Jak Showell. 2009. *Hitler's Navy: A Reference Guide to the Kriegsmarine 1935-1945*. Barnsley, UK: Seaforth Publishing.

CAT gear aboard HMCS Sackville. (author's photo)



# A4.10 Communications

#### On Board Communications

On board ship, different methods were used to communicate, particularly to communicate orders from the commanding officer and others on the bridge, and to communicate information to the bridge crew.

The primary means of on-board communications was the use of voice pipes. This consisted of a set of metal tubes that originated primarily on the bridge and extended out to all parts of the ship, from the anchor winch at the bow to the depth charge launchers at the stern. Separate tubes were used for each line, leading to a complex system of tubes throughout the ship.

A cone at each end of the tube helped to amplify the sound, and in some cases, the tubes were insulated to increase the efficiency of the sound relay. Before speaking into the voice pipe, a whistle sound or light would alert the listener that someone was about to start speaking into the tube. The speaker would put his mouth in the cone, or horn, to speak, and the listener would bend to put their ear to the cone at the other end.
These tubes provided a reliable means of verbal communication throughout the ship, and the system worked even if the ship lost power.

Voice tubes are still used on some naval ships today, as a backup communication system, or as a means of communication that cannot be heard by the enemy. Apart from ships, they are often seen in children's playgrounds.

Later in the war, onboard telephone systems began to supplement voice tubes, with telephones installed on the bridge and in key locations, including the commanding officer's quarters and at the stern near the depth charge launchers.

The bridge of a corvette undergoing a refit, showing newly installed voice pipes clustered around the gyroscopic compass. Other voice pipes were located around the perimeter of the open bridge. (credit: source unknown) Gerry Zaphe aboard HMCS Spikenard, standing beside one of the depth charge throwers. Two voice pipes can be seen curving out from the bulkhead (wall) behind him, one adjacent to each depth charge thrower. (Credit: Collection of Gerald Zaphe, www.forposterityssake.ca)



Gun crew aboard HMCS Agassiz, with one of the gunners wearing a flexible voice pipe for two-way communications. (Credit: https://hmcssackville.ca/resources-2/educational-material/photos/)



HMCS Cobalt – Cobalt's Namesake Goes to War



*Cas* (*Ossie*) *Owsianski standing near the stern of HMCS Pictou, with a telephone just behind him.* (*Credit: Collection of Sid Dobing, www.forposterityssake.ca. Photo has been digitally restored by the author*)

#### Ship-to-Ship and Ship-to-Shore Visual Communications<sup>211</sup>

On convoy duty, escort ships needed to communicate with other escorts, particularly in the event of actions against U-boats. They also needed to be able to communicate with merchant ships, such as to communicate changes in direction.

As further discussed below, all ships, including corvettes and other escorts, were equipped with radio systems that could be used to send and receive signals with other ships, and with shore stations. However, the use of radio to send messages could alert U-boats to the presence of the convoy. U-boats usually operated on the surface, especially at night, unless there was a convoy nearby or the threat of air attack. When running on the surface, U-boats could go much faster, and their crews had much better visibility. It was also essential for them since when submerged they ran using electric motors powered by batteries. When on the surface they ran their diesel engines and were able to recharge the batteries.

While on the surface, U-boats operated systems that allowed their crews to detect radio signals. Allied escorts used similar systems. Such systems couldn't be used to understand the messages unless the receivers happened to the tuned to the same frequency and the messages were not sent in code. However, if a convoy escort ship or merchant ship sent a radio message, detection of that radio signal would alert the U-boat to the presence of the convoy. If the signal was detected by several U-boats, this could allow them to determine the location of the convoy. As a result, radios were not used at sea unless a convoy was under attack. Even within harbour, before departing for convoy duty, radios were not to be used since an increase in radio traffic could alert U-boats to the impending departure of a convoy or an escort group.

To maintain "radio silence" ships at sea communicated with each other using visual signals, using one of two methods: signal flags, or signal lamps.

Signal flags would be hoisted above the ship's bridge. Some of these flags (also known as pendants) represented specific letters or numbers, while others represented words, such as affirmative or negative. Flags were stored in a locker on the bridge and were raised or lowered on orders from the officers on the bridge. Crews on other ships would use binoculars or telescopes to read the message communicated by the flags.

<sup>&</sup>lt;sup>211</sup> Information in this section is based on an excellent website on RCN communications by Jerry Proc. http://www.jproc.ca/rrp/index.html

Signal flags used by the Royal Navy and the RCN during the Second World War. (Credit: http://www.jproc.ca/rrp/rrp2/visual flags.html)



Signalmen standing in front of the flag locker aboard HMCS Fredericton. (Credit: Collection of Charles Atkins, www.forposterityssake.ca)



HMCS Sackville "dressed overall" with all of her signal flags displayed. Ships dress overall in this manner for special occasions. In the case of the Sackville, she is typically dressed overall for Canada Day and also when she is being moved by tugboats to and from her summer berth on the Halifax waterfront and her winter berth in the naval dockyard. (Credit: HMCS Sackville Facebook page: https://www.facebook.com/profile.php?id=100063613031668)



HMCS Cobalt - Cobalt's Namesake Goes to War

Signal lamps were widely used at sea and could be seen from greater distances than signal flags, although rough seas could make it difficult to accurately send and receive messages. RCN corvettes were fitted with a pair of 10" signal lamps, one on each side of the bridge. These lamps projected a very narrow beam of light that could be seen up to 10 miles away in bright sunlight. The lamps were so bright that filters were sometimes used at night making them less bright. The lamps were fitted with slats, like the slats of Venetian blinds. By opening and closing these slats, a message was sent using Morse code. Messages could be sent at up to 8 words per minute, with the receiving ship sending an acknowledgment flash after each word.

Later in the war, corvettes, including the Cobalt, were also fitted with a 20" searchlight, installed on a platform connected to the aft platform for the 2-pounder pom gun. On some corvettes, depending on the type of light installed, this searchlight could also be used as a signal lamp.

Signal flags and lamps would also be used when within visual distance of shore, such as when entering and departing from harbours.

Signalman Jack Scott operating a 10" signal lamp aboard HMCS Sherbrooke in 1945. (Credit: Canada. Dept. of National Defence / Library and Archives Canada / PA-115354. www.forposterityssake.ca)



20-inch searchlight aboard HMCS Sackville. This one can also be used as a signal lamp. (author's photo)



Ship-to-Ship and Ship-to-Shore Radio Communications

As noted above, naval ships like HMCS Cobalt were equipped with radio systems that could be used to send and receive signals with other ships, and with shore stations in Canada or the United Kingdom. These systems were housed in the radio office, which on corvettes was part of the bridge structure, located behind the wheelhouse.

Normally, messages were sent in Morse code, although voice was sometimes used when communicating with nearby ships. When sending secret messages in Morse code, the messages were encrypted so that, if intercepted by a U-boat or German shore station, the messages could not be understood.<sup>212</sup> Separate from the radio office was a decoder's office, where outgoing messages would be encrypted before transmission, and incoming messages would be decrypted.

The Cobalt and other corvettes were equipped with various types of radios and encryption systems. Like other aspects of the ships, the communications equipment fitted was upgraded as the war progressed.

<sup>&</sup>lt;sup>212</sup> The Germans were successful in breaking the code used by the Royal Navy and the RCN, allowing them to decode Allied messages. This gave them information on positions of ships and routes of convoys. If messages could be decoded fast enough, this information could be used to put U-boats in better position to attack convoys. Eventually, the British realized that code had been broken, and introduced a new code that the Germans were not able to break before the war ended. Gene J. Pfeffer. 2010. *The Codebreakers' War in the Atlantic*. https://warfarehistorynetwork.com/article/the-codebreakers-war-in-the-atlantic

Example of visual communications. These are the messages exchanged by signal lamp between HMCS Burlington and HMCS Cobalt after the "friendly fire" incident described in Section 11, depicted as a modern text message exchange. (Credit: Library and Archives Canada, RG24. Volume 11559)



The mast aboard HMCS Sackville. The mast played a crucial role in communications. Hanging from the cross piece, known as the yardarm, are small pulleys supporting the ropes (halyards) used to raise and lower the signal flags. Also hanging from the yardarm but extending towards the back of the ship are four wires which are radio antennas. Other features on the mast include the crow's nest, midway up the mast, used to give the crew a higher vantage point when on the lookout for U-boats. Atop the mast is the antenna for the ship's SW2C radar. (author's photo)



HMCS Cobalt - Cobalt's Namesake Goes to War

## A4.11 Boats, Life Rafts, and Life Vests

Corvettes carried both small wooden boats and life rafts. The wooden boats were used primarily for rescue operations if there was a man overboard, or if there were survivors from the sinking of another ship in the water. They could be used if the ship needed to be abandoned, but in many cases, this was not possible since sinkings often happened so quickly. For emergencies, the ships carried life rafts which could be released into the water much more quickly and easily.<sup>213</sup>

For most of the war, the Cobalt and other corvettes carried two 16-foot-long wooden dinghies. These were mounted on either side of the ship. They had no motors, only oars, and could also be fitted with a small sail. The dinghies were raised and lowered using pulleys and a pair of small cranes referred to as davits.

One of the Cobalt's 16-foot dinghies can be seen in this photo, hanging from the davits used to lower the boat. When at sea, the davits were swung outwards so that the boat was hanging over the side of the ship making it easier to deploy in an emergency. (Credit: Collection of William Killam, https://www.rcnhistory.org/killamcobalt.htm. Photo has been digitally restored by the author.)



During the Cobalt's final refit, from April to July 1944, the two dinghies were replaced by a larger single 27-foot-long wooden boat known as a whaler. Like the dinghies, the whaler had no motor and could be fitted with a sail.

<sup>&</sup>lt;sup>213</sup> http://jproc.ca/haida/whal\_cut\_carley.html

HMCS Cobalt – Cobalt's Namesake Goes to War

27-foot whaler aboard HMCS Sackville (author's photo)



Launching the whaler aboard HMCS Orillia, taken in the summer of 1944 while the ship was on workup in Bermuda after a refit in Liverpool, Nova Scotia. (Credit: Collection of Thomas Carson, www.forposterityssake.ca. Photo has been digitally restored by the author.)



The Cobalt carried life rafts known as Carley floats. These were very sturdy rafts built around a core of a metal tube 12 to 20 inches in diameter, divided into chambers for increased buoyancy. The tube was covered with a thick layer of cork and a layer of canvas. The float had a wooden floor attached by rope netting. The structure formed a rigid raft that could float equally well with either side on top and would continue to float even if damaged. Inside each Carley float were paddles, containers of water, food rations, and survival equipment. The outside of the float had rope netting to make it easier to hold onto.<sup>214</sup>



Carley floats were built in various sizes. Early in the war, the Cobalt carried just two or three Carley floats. As her crew increased in size,

so did the number of Carley floats. By the end of the war, the Cobalt carried six Carley floats that could carry up to 20 men each. The Carley floats were on three frames designed to quickly deploy the floats into the water in an emergency.

A sailor (Tim Moore) aboard HMCS Agassiz hitching a ride on a Carley float in rough seas. Not quite an amusement park ride but he appears to be having fun. A second pair of Carley floats is stored further aft. (Credit: Collection of Tim Moore, www.forposterityssake.ca. Photo has been digitally restored by the author.)



<sup>&</sup>lt;sup>214</sup> http://jproc.ca/haida/whal\_cut\_carley.html

HMCS Cobalt - Cobalt's Namesake Goes to War

Corvettes and other RCN ships were originally equipped with life belts for crews to use in emergencies. The belts consisted of a waist belt that could be inflated by the sailor wearing the belt using a blow tube. The belt was held in place with shoulder straps.

Two crewmen at an anti-aircraft gun, likely aboard HMCS Sudbury. The sailor on the right is wearing his life belt and it has been inflated. The blow tube can be seen. (Credit: Collection on Ronald Judges, courtesy of Chanin Graham, personal communication with the author. Photo has been digitally restored by the author.)





In 1943 the RCN introduced a new design of life vest, envied by crews in allied navies. As described by the Canadian War Museum "The life vest's design incorporated improvements learned through bitter experience. A collar kept an unconscious wearer's head out of the water, while a small blinking red light, missing from this vest, helped rescuers locate survivors. A hook and line attached to the vest allowed survivors to attach themselves to floating objects like life rafts. A groin pad helped reduce injuries caused by explosions of depth charges."<sup>215</sup> And as Milton Whymark attested, the life vests also had a whistle attached to them.

Crew members aboard HMCS Arvida showing off their life vests and caps with flashing lights to aid in rescue at night. (Credit: Collection of Ivan Bennett, www.forposterityssake.ca. Photo has been digitally restored by the author.)



<sup>&</sup>lt;sup>215</sup> https://www.warmuseum.ca/cwm/exhibitions/navy/galery-e.aspx@section=2-E-2-c&id=20&page=0.html

# A4.12 Summary of Improvements to HMCS Cobalt: January 1941 to May 1945

The previous sections make it clear that HMCS Cobalt saw many changes and improvements from the time she was ready for service in January 1941 until the war ended in May 1945. By her last eight months of service, following her final refit in the summer of 1944, she was a vastly improved and far more effective warship.

However, it took time to get there. As with so many other aspects of the RCN's explosive growth, especially in the early years of the Second World War, getting ships refitted and better equipped was very challenging. There were a few reasons for this:

- <u>Availability of equipment.</u> Particularly early in the war, everything was in short supply, from ASDIC to anti-aircraft guns. Since most of this equipment was manufactured in the United Kingdom, and the Royal Navy's escorts operated primarily in the eastern Atlantic, where the U-boat threat was greatest, the corvettes and other ships of the Royal Navy tended to get new equipment before the RCN. As a result, RCN corvettes were often one to two years behind their Royal Navy sisters in terms of equipment. Considering the rapid evolution of technologies like ASDIC and radar and the introduction of new weapons like hedgehog, this was a big difference.
- <u>Limitations of RCN corvette electrical systems.</u> The corvettes built for the RCN were not originally fitted with electrical systems that could support gyroscopic compasses and other later equipment. This has a trickle-down effect since reliance on magnetic compasses meant that newer ASDIC types would be useless. ASDIC is linked to the compass, and newer types of ASDIC required a gyroscopic compass to accurately plot the speed and direction of submerged submarines. Upgrading the electrical system was a big job, and the RCN decided to defer upgrading the electrical system until refits when the corvettes fo'c'sles were being extended since this was such a major reconstruction of the ships. This delayed the installation of newer ASDIC. It also delayed installation of hedgehogs, since the fire control system for hedgehogs was linked to the upgraded ASDIC and the plots based on ASDIC information linked to readings from the gyroscopic compass. In addition, to make space for the hedgehog, the fo'c'sle extension was essential.
- <u>Limited shipyard capacity.</u> The Canadian shipbuilding industry had been very small before the war, and like the RCN itself, grew exponentially during the war. Canada built hundreds of naval and merchant vessels during the war, not just for Canadian use, but also for the United Kingdom and the United States. The capacity of major shipyards from the east coast to the Great Lakes to the west coast was consumed with the construction of new ships. Larger shipyards were also needed to repair damage to larger navy ships and merchant ships. This left few options for shipyards where corvettes could be refitted. The RCN turned to smaller east coast shipyards with little or no experience in building or refitting naval ships, such as shipyards in Liverpool, Shelbourne, Lunenburg, and Pictou in Nova Scotia. A few corvettes were also refitted in the US, in shipyards as far afield as Galveston, Texas. However, the bulk of the refits were refitted in these small Nova Scotia shipyards.
- <u>Urgent demands of convoy escort duty.</u> Refits took two to four months to complete, depending on the nature of the work to be done. Workup periods after refits took another few weeks. This took the ships away from their vital role of convoy escort. Particularly in the first half of 1942, when RCN escorts were pushed to their absolute limit taking on new escort duties as German U-boats pressed

home attacks along the east coast of North America, including far into the Gulf of St. Lawrence and the St. Lawrence River, the RCN could ill-afford to pull escorts from convoy duty for refits. As essential as refits were to maintain the ships in good condition and to upgrade their equipment, there were times when refits became a luxury that had to wait, and even essential maintenance and repair like cleaning ships' boilers was delayed.

Below is a summary of the major changes to HMCS Cobalt and her equipment from the time she entered service in January 1941 until the end of the war. The author has not located any records that document, in writing, the nature of the work done during each of the Cobalt's three refits, completed from December 1941 to January 1942, March to April 1943, and April to July 1944. There is also no record of changes or upgrades, if any, that were completed outside of these refits. This list is based on:

- A report completed for the work-up following HMCS Cobalt's second refit, the February 1944 Fighting Equipment Report, and a report completed for the work-up following her third and final refit.
- Photos of HMCS Cobalt taken throughout her service life.
- General information about upgrades to RCN Flower class corvettes during the Second World War.

#### Ship's structure:

- Bridge wings added (first refit)
- Structure added to support Type 271Q radar (second refit)
- Fo'c'sle extended (third refit)
- Bridge modified and enlarged (third refit)
- Interior space added behind the bridge (third refit)

#### Electronics:

- SW1C radar added (first refit)
- SW1C radar upgraded to SW2C (either second refit or between second refit and February 1944.)
- Type 271Q radar added (second refit)
- Electrical system upgraded to support gyro compass and other new systems (third refit)
- Type 123a ASDIC replaced by Type 144 (third refit)
- Gyro compass replaced magnetic compass (third refit)
- Electronic plotting system and fire control system added to support operation of hedgehog (third refit)
- Interrogation Friend or Foe (IFF) system added for aircraft identification (unknown but likely coincided with an upgrade to SW2C radar)
- Radio equipment upgraded; details unknown (unknown. This may have been incremental)

#### Weapons:

- Second pair of depth charge throwers added (first refit)
- Improved stern depth charge rails installed (third refit)
- The number of depth charges carried increased from 40 to more than 70 (incremental increases from the first to third refit, with the largest increase after the second refit when minesweeping gear was removed)
- Hedgehog added (third refit)
- Vickers heavy machine guns added (sometime soon after entering service)

#### HMCS Cobalt – Cobalt's Namesake Goes to War

- PAC projectors added (unknown)
- Lewis light machine guns replaced by 20mm cannon (unknown, but before the second refit)
- Vickers heavy machine guns replaced by 2-pounder pom pom (second refit)

#### Mine sweeping and other countermeasures

- Degaussing cables added (unknown)
- Mine sweeping gear removed (second refit)
- CAT gear added (between the second refit and February 1944. Likely soon after CAT gear was introduced in September 1943 since this was a simple upgrade that could be completed in port.)

#### Boats and life rafts

- Two 16-foot dinghies replaced by a single 27-foot whaler (third refit)
- Two Carley floats were added, which were missing in the earliest in-service photos. (unknown)
- The number of Carley float increased to six (incremental increases through successive refits, as the size of the Cobalt's crew increased)

#### Other changes

- 24-inch search light added in front of aft gun tub (second refit)
- Rocket rails added to the gunshield of the main gun to launch rockets for illumination at night (unknown. The rails were not installed as part of the work for the Cobalt's third refit completed in Liverpool, Nova Scotia. However, they are evident in later photos. After the work was completed in Liverpool, she went to Halifax where additional work was completed before going to Bermuda for work-up. The rails were likely installed in Halifax as part of her third refit)
- Mainmast (aftermost mast) removed (first refit)
- The forward mast moved to behind the bridge to reduce interference with the Type 271Q radar (third refit)

## A4.13 Flags and Battle Honours

Like all Royal Canadian Navy ships from 1911 to 1965, the Cobalt flew a flag known as the White Ensign, known in Canadian service as the Canadian Naval Ensign.<sup>216</sup> This was the same as the flag flown by the Royal Navy as well as the navies of Australia and New Zealand. The White Ensign has a red cross of St. George on a white background, with the Union Flag in the upper left. The White Ensign is still flown by ships of the Royal Navy.

The location from which the White Ensign was flown aboard the Cobalt varied throughout her service life as she was altered in refits. Initially, the flag was flown from a large mast towards the back of the ship. After this mast was removed, the flag was flown from a staff at the stern of the ship. After her final refit in 1944, the White Ensign was flown from a staff attached to her funnel.

<sup>&</sup>lt;sup>216</sup> https://www.canada.ca/en/navy/services/history/naval-flags-uniforms/diplay-naval-flags.html



*The Cobalt in Halifax in 1941, flying the White Ensign from her mast. (Credit: CFB Esquimalt Naval and Military Museum Photo)* 



The Cobalt in Liverpool, Nova Scotia in 1943, flying the White Ensign from her stern. (Credit: Collection of William Killam, https://www.rcnhistory.org/killam-cobalt.htm. Photo has been digitally restored by the author.)



The Cobalt in Liverpool, Nova Scotia in 1944, flying the White Ensign from a staff on her funnel. (Credit: Collection of Edmund Ferris, https://www.rcnhistory.org/ferris-cobalt.htm)



The RCN also had a flag referred to as the Canadian Naval Jack. This was similar to the Canadian flag of that era, the Red Ensign, except that the Canadian Naval Jack had a dark blue background rather than red.



Ships were equipped with a removable flag staff known as a jack staff, which was to be mounted at the bow of the ship to fly the Canadian Naval Jack. The jack would only ever be flown when in port.

In searching through hundreds of photos of Canadian corvettes, the author found just one photo of HMCS Sackville flying the Canadian Naval Jack, and a sequence of photos taken aboard HMCS Woodstock at the RCN base in Esquimalt, British Columbia. The Woodstock only arrived in Esquimalt in late November 1944, and she was decommissioned there on January 27, 1945, so it is quite possible that the photos of her flying the Canadian Naval Jack were taken at the time of her decommissioning. Since the sequence of photos also includes many group photos, photos of crew with the kit on shore leaving the ship, and also shows the crew walking off with the ship's nameplate, apparently as a souvenir, this supports the idea that she was flying the Canadian Naval Jack to mark her decommissioning.

Crew of HMCS Woodstock pose at the bow of the ship with the Canadian Naval Jack flying. In the background is the Bickford Tower, originally built as a signaling tower and still standing at Canadian Forces Base Esquimalt as a heritage building. (Credit: Collection of Harry Harold Palatnick, www.forposterityssake.ca. Photo has been digitally restored by the author.)





*Canadian Naval Jack flying from the jack staff at the bow of HMCS Sackville in Halifax. (author's photo)* 

HMCS Cobalt – Cobalt's Namesake Goes to War

Battle honours are awarded to "provide public recognition of and to record a combatant unit's active participation in battle against a formed and armed enemy."<sup>217</sup> This includes units such as individual ships, air force squadrons, or army regiments.

HMCS Cobalt has a single, very well-earned battle honour: Atlantic 1941-45

Battle honours can be borne by successors, so if there was ever to be another HMCS Cobalt, it would be able to proudly display the Battle Honour Atlantic 1941-45



### A4.14 Gunshield Art

During the Second World War, RCN ships did not have official crests or badges, as Canadian ships do today. A formal program to design and adopt crests or badges was only introduced after the war.<sup>218</sup> However, during the war, many ships had informal crests or badges, approved by the ship's commanding officer. Thus, wartime crews were on their own, with considerable artistic licence to shape their ship's identity in the form of crests or badges. They ranged from more "heraldic" type crests or badges to humorous and cartoon-like. In the case of corvettes like the Cobalt, the ship's crest or badge was often painted prominently on the gunshield of the ship's main 4-inch gun.

HMCS Cobalt - Cobalt's Namesake Goes to War

<sup>&</sup>lt;sup>217</sup> https://www.canada.ca/en/department-national-defence/services/military-history/history-heritage/battle-honours-honorary-distinctions.html

<sup>&</sup>lt;sup>218</sup> https://readyayeready.com/badges/crowsnest-dec-48/index.php

The painting of artwork on gunshields was similar to the idea of nose art that was painted on many Allied aircraft during the war, particularly large bombers. As with ships, it was a way for the crew to personalize their craft. Artwork was painted on other types of ships too. Many German U-boats had artwork painted on their conning towers, and small patrol boats like US Navy PT Boats often had artwork.

However, the scale on which gunshield art was painted on RCN corvettes and other ships is somewhat unique, and something that distinguished Canadian corvettes from their Royal Navy sisters.

The "origin story" of RCN gunshield art is, in itself, a piece of Canadian history. In January 1942 the Seagoing Officer' Club was opened on the top floor of an old warehouse on the waterfront in St. John's, Newfoundland. It was a place for officers of warships and merchant ships to gather, relax, decompress from the stress of convoy duty, and share stories that would rarely if ever be shared in outside circles. It fulfilled a role similar to the Royal Canadian Legion for veterans, except that its members were on active duty. The club later became known as the Crow's Nest Officer's Club, or the Crow's Nest for short, after an army officer, invited to the Club, commented on the climb to get there (59 rickety wooden steps) and cozy atmosphere inside. He called it a crow's nest, after the small lookout platform high on the masts of ships. The name stuck.<sup>219</sup>

On opening night, an officer from HMCS Georgian started to carve the ship's name into the woodwork. The officer who had started the Club, anticipating the problems that this could cause but likely never anticipating where his solution would lead, put an end to the carving. Instead, he allowed each ship a 2' x 2' space on a wall of the club to display something regarding the ship. In an article about the Crow's Nest, Gary Green from the Crow's Nest Military Artefacts Association relates what happened next:<sup>220</sup>

"The officers from HMCS Wetaskiwin went back to their ship's wardroom and removed 'The Wet Ass Queen,' a painting of a queen sitting in a puddle of water shaped like the island of Newfoundland, and brought it to the club. Within 24 hours, the officers from HMCS Trillium produced a still-wet painting of Donald Duck chasing a Uboat. In short order, other ships and shore units added their contributions, and the walls became covered with colourful representations of Churchill, Hitler, heraldic beasts, totem poles, bulldogs, Disney characters, Popeye, and anything else that portrayed the pride the crews had in their vessel or unit."

It is the Club's understanding that there was even a special ceremony when new ships joined the walls of the Club.<sup>221</sup>



Soon after the artwork appeared in the Club, the "Wet Ass

Queen" appeared on HMCS Wetaskiwin's gunshield. Within short order, the crews of other corvettes followed suit, and artwork from the club was reproduced on many other gunshields. And thus, gunshield art was born. What started as a way to control graffiti inside the Crow's Nest became an RCN tradition.

HMCS Cobalt – Cobalt's Namesake Goes to War

<sup>&</sup>lt;sup>219</sup> Gary E.H. Green, The Crow's Nest. Published in the Journal of Ocean Technology, 2010

<sup>&</sup>lt;sup>220</sup> Same reference as above.

<sup>&</sup>lt;sup>221</sup> Gary Green, Crow's Nest Military Artefacts Association, personal communication with the author.

Modern RCN ships carry on this tradition. For example, Canadian frigates display gunshield art on the access doors to their main guns, in some cases based on the gunshield art of their Second World War predecessors.

*Gunshield art from the Second World War corvette HMCS Calgary and the modern frigate HMCS Calgary. (Credit: www.forposterityssake.ca)* 



Modern gunshield art aboard HMCS Toronto, very much in the tradition of Second World War gunshield art. (Credit: www.forposterityssake.ca)



HMCS Cobalt - Cobalt's Namesake Goes to War

Today, the Crow's Nest Officer's Club continues as a club, although open to the public.<sup>222</sup> It is also listed as a museum and a historic site. A unique distinction for a bar! It has what is likely the largest collection of RCN gunshield art anywhere and has crests and badges from many ships, Canadian and foreign. The Club's website has an excellent 3D virtual tour. Check it out and see if you can spot the Cobalt's gunshield art. https://crowsnestnl.ca/tour/

The Cobalt and her crew were a bit late to the game in getting gunshield art. While there are no records of when the gunshield art was first painted, it can be backdated based on the artwork the gunshield art was based on. As described in Section 11, the Cobalt's gunshield art portrayed the mining heritage of the town of Cobalt but was based on the Beechcraft Busy Bee created by Walt Disney for the Beech Aircraft Corporation in 1942. This leads to an obvious question – how did an artist/sailor in the RCN find out about a corporate mascot created for a company based far from the ocean, in Wichita Kansas?

The likely explanation is advertising. In July 1942, the Beech Aircraft Corporation had a full-page advertisement in Flying magazine and possibly other magazines as well, that featured the Beechcraft Busy Bee. Since magazines were supplied to sailors by various organizations from the Red Cross and the YMCA to, in the case of HMCS Cobalt, the Old Timers of Cobalt (see Section 11), the most likely explanation is that the artist saw the advertisement in a magazine and took that as inspiration to create the Cobalt's gunshield art. The artist may also have found it in the magazine racks of a store in New York City, since the Cobalt was in New York several times in July and August 1942.

It is likely then that the Cobalt's gunshield art was applied soon after July 1942 when this advertisement appeared. More likely, given the amount of time that the Cobalt was spending at sea, it was applied in August or September 1942. Interestingly, if this is correct, then the Cobalt got her gunshield art after leaving St. John's and the Newfoundland Escort Force and the Crow's Nest, although she was still in St. John's from time to time.

Despite being no longer based in St. John's, it is clear that the Cobalt made at least one more trip to St. John's. In the collection of the Crow's Nest is a rendition of the Cobalt's gunshield, signed by the same artist who painted the original gunshield in the photo in Section 11 - Watson. In keeping with the traditions of the Crow's Nest, it is likely that the version of the artwork in the Club actually pre-dates when the Cobalt's gunshield art was first painted. Thus, a little piece of HMCS Cobalt lives on in the Crow's Nest in St. John's.

As noted in Section 11, a smaller version of the artwork from the Crow's Nest was also given to the Town of Cobalt. This version appears in at least two photos taken inside the town council chambers, one likely taken during the war and one most likely taken a few years after the war. As stated in Section 11, this is thought to have been given to the town in the spring of 1943. It is now part of the collection of the Cobalt Mining Museum.

<sup>&</sup>lt;sup>222</sup> https://crowsnestnl.ca/

HMCS Cobalt - Cobalt's Namesake Goes to War

July 1942 advertisement from the Beech Aircraft Corporation featuring the Beechcraft Busy Bee. (Credit: https://books.google.ca/books?id=XtlZmhIDXRYC&pg=PA87&dq=flying+mag azine+july+1942&hl=en&sa=X&ved=2ahUKEwjrvvzs24j-AhX7j4kEHQSvCyk4ChDoAXoECAcQAg#v=onepage&q=flying%20magazine %20july%201942&f=false



HMCS Cobalt gunshield art, part of the collection of the Crow's Nest Club in St. John's Newfoundland and Labrador. (Credit: Gary Green and Margaret Morris, Crow's Nest Officer's Club, personal communication with the author.)



HMCS Cobalt – Cobalt's Namesake Goes to War

Version of the gunshield art given to the Town of Cobalt in 1943 and is now part of the collection of the Cobalt Mining Museum. It is by the same artist – Watson - that painted the version in the Crow's Nest and painted the original artwork on the ship's gunshield. Oddly though, this version is missing the bee's wings and a few other details. (author's photo, with thanks to the Cobalt Mining Museum)



HMCS Cobalt – Cobalt's Namesake Goes to War

Photo taken in the Town of Cobalt council chambers, likely taken after the Second World War, showing the artwork based on HMCS Cobalt's gunshield sitting on the fireplace mantle. The man sitting at the head of the table is Ken Buffam who was mayor of Cobalt from 1949 to 1956, although it is not certain if this photo was taken while he was mayor. (Credit: Cobalt Mining Museum. Photo has been digitally restored by the author. Credit to Maggie Wilson of the Cobalt Historical Society for identifying the location where the photo was taken, identifying Mr. Buffam, and providing information on when he served as mayor, personal communication with the author)



Another wartime-era colour version of the Cobalt's gunshield art. The source is unknown, and there is no other information about this artifact. It appears to be on a fairly small piece of cardstock, judging by the marks in the corners where it appears to have been bent. It is possible that some of these were printed for crew members.



## A4.15 Training and Workups

To be effective in her role, the Cobalt's crew needed to be well trained as individuals, as teams, and as a crew as a whole. Each person had to know their role of course, from cooks to radar operators. But teams needed to be able to work together, such as the teams responsible for weapons like the main gun or the depth charges, or the engine room crew. For example, firing the main 4-inch gun required several men taking orders from a gunner officer on the bridge to aim, load, and fire the gun, and to keep a steady supply of the correct ammunition and charges coming to the gun – teamwork was essential.

Crew members also needed to know their role in an emergency. For example, a cook might take over as a firefighter, and receive necessary training. Various crew members would need to know their roles and responsibilities in emergency repairs in the event of damage from a torpedo hit, collision with another ship, or some other emergency, referred to as damage control. And of course, crews needed to know what to do if the ship needed to be abandoned, including how to get up on deck in the dark, and how to launch the Carley floats and get into them in rough seas.

North Atlantic convoy duty was no pleasure cruise, and crews needed to be prepared, both to achieve their goal of escorting convoys and to survive in a war conducted in an incredibly hostile and unforgiving environment.

Training for all newly recruited sailors began with basic training. On the east coast, this was done at HMCS Cornwallis, a shore installation near Digby, Nova Scotia. There, the recruits would learn some of the basic skills expected of anyone in the military and expected of sailors. Some showing particular aptitudes were selected for more specialized training, such as communications. However, sailors left Cornwallis with a LOT to learn.

Much was learned and many skills were honed through on-the-job training once sailors were assigned (drafted) to specific ships. Sailors could also be sent for further training ashore, and some trades required specialized training, such as ASDIC and radar operators, navigators, and engineers working on the boilers and in the engine room.

However, to truly function as teams, and as a ship, the whole ship needed to be put through its paces through training at sea. For HMCS Cobalt and her crew, the first opportunity for this type of training came soon after the ship was sent to St. John's as part of the Newfoundland Escort Force (NEF).<sup>223</sup> After the Force was formed, it soon became apparent that a lot more training was needed to bring the Force to the state of effectiveness needed to challenge the U-boats. Lieutenant-Commander James "Chummy" Prentice was the captain of HMCS Chambly, also part of the NEF, and he was Senior Officer, Canadian Corvettes. For about nine weeks, Prentice pushed the NEF ships and crews hard, very hard, to increase their state of readiness. The training covered everything from signals training to weapons training to the use of the ships' minesweeping equipment. Ships trained together on how to conduct anti-submarine sweeps, and invaluable skill when convoys came under attack.

This training period also included "real world" training for ASDIC operators. A submarine of the Royal Netherlands Navy, based in Halifax, provided an underwater target for the ASDIC operators. This helped the operators to learn how to track and maintain contact with submerged submarines, and how to

<sup>&</sup>lt;sup>223</sup> Description of NEF training under Lieutenant Commander Prentice is based on: The Training Gap: Navy, Part 31. Marc Milner, February 20, 2009, Legion Magazine.

distinguish between submarines and other contacts, like whales or schools of fish. Before the introduction of radar, ASDIC was the only way to find submarines unless one was spotted on the surface, and even after radar was introduced it remained a critical tool since it was the only way to find and track submerged submarines. Having ASDIC operators who were good at their jobs was a matter of life and death!

After this period of intense training, the operational schedule of HMCS Cobalt and her sisters was so intense that there were few other opportunities for training of this type. Particularly after the United States entered the war and U-boats began carrying out heavy attacks along the east coast of North America, the Canadian corvettes were stretched to their limit, with limited opportunities for training.

However, one milestone in the service lives of corvettes and their crews necessitated a period of training – refits. HMCS Cobalt went through three refits: December 1941 to January 1942, March to April 1943, and April to July 1944. During each refit, new equipment was installed, such as radar (first and second refits), improved ASDIC (third refit), and new weapons, particularly hedgehog (third refit). Each time the Cobalt and other corvettes came out of refit, there were also significant changes in the crew, with new crew members and officers that had not worked together before.

With new equipment and weapons and new crew members as well as other changes, workup periods following refits were essential. Workup periods were used to provide training on the new equipment and weapons and to provide an opportunity for crews to work together to become cohesive teams. During workups, ship's officers and crews were also evaluated by experienced officers who looked at all aspects of performance, including gunnery, communications, lookout activities, and use of the ship's boats, as well as emergency procedures including fire control, damage control, and preparations to abandon ship.

Until mid-1944, workups for RCN ships on the east coast were conducted in Nova Scotia, in St. Margaret's Bay, and Pictou. However, winter weather could hamper training. A new RCN shore establishment was set up in Bermuda – HMCS Somers Isles – as a year-round training facility for workups. HMCS Cobalt's final workup was completed in Bermuda. This was likely the furthest south that the Cobalt ever sailed until her much later career as a whaling ship since the Cobalt was not involved in escorting convoys in the Caribbean.

A report on HMCS Cobalt's workup in Pictou in June 1943, following her second refit, is provided on the following pages.<sup>224</sup> The report gives a good sense of how thorough the evaluations were that were conducted during workups.

<sup>&</sup>lt;sup>224</sup> Source: Library and Archives Canada, RG24, Volume 6909.

		210					
rom: Refit	H.M.	C.S. "	COBAT	<u></u>	u To	): W.I	L.E.F.
ommended WUP	(WUPs ≠ 7 June!4	3 Comp	leted V	VUP 21 J	ine'43 Total N	lo. da	ys HWUP Ni SWUP J
o. of days Se	a WUP de	elayed	Nil F	Reasons f	or delay		
			Eau	lipment			0
ype of RDF se	t sw 2	. C		Type of	Asdic set	123A	6144
/A Armament _	4" B.L.	MK I		No. of	D/C Throwers		
A Armament _	1 x 2pdr	Pom Po	om D/Cs	s carried	_70 Full	stowa	ge <u>70</u>
-	2 x Bren			OFFICERS	Sea	Sho	rt Course
Name	Ser	niority	Rank	Duties	Time	A/S	$\frac{G S T}{1 I}$
A. JUDGES	15 J	an!40	RCNVR	C.O.	18 Months.	-	
D UDWARD	13 4	n1143	Lieut.	X.O. G.C.O.	10 Months		
ava utanany		Mathematica .	Mate				
W. BETT	- <u>7</u> D	ec 42_	S/Lt.	A/S C.O.	4_Months	Yes	
L.M. MCMILLAN.	ע נו	lay 142	RCNVR	R.D.F.	9 Months	Yes	
.E.D. SCOVIL	9 1	ov 142	RCNVR	A/A	2 Months.		
	1.5.7		S/Lt.	Sigs.CB	\$ NIT		
. J. RUSSELL	1 1 1 1 1	0 11 / 5	IN A PELL	AP COLLER			and the second se
<u>Name</u>	Staff Tra Rating	aining Effi ienc	Officer c- Keer y nes:	rs' Impre 1- 5 X Keeps s	ssions of Per Remarks set in good o	rsonne s	Non-sub
<u>S</u> Name V.6587 D. PIMLOTT	Staff Tra Rating	aining Effi ienc 5	Officer c- Keer y ness	rs' Impre s Keeps s and tal well.Ne	ssions of Pen Remarks set in good o kes charge of peds practice	rder SD's	Non-sub H.S.D.
S Name V.6587 D. PIMLOTT	A/P.O.	aining Effi ienc 5	0fficer c- Keer y nes: 4 6	rs' Impre s * Keeps s and tal well.Ne Attitud	ssions of Per Remarks set in good o kes charge of aeds practice de is good bu	rsonne s rder SD's on MP t they	Non-sub H.S.D.
<u>S</u> Name /.6587 ). PIMLOTT	Staff Tra Rating	aining Effi ienc 5	Officen c-Keer y ness 1 6 5	rs' Impre - S Meeps s and tal well.Ne Attitud need a tice at	ssions of Pen Remarks set in good o kes charge of aeds practice de is good bu great deal o t M.P.T.	rsonne s rder SD's on MP t they f prac	Non-sub H.S.D. F. S.D. Ratings
<u>S</u> Name 7.6587 0. PIMLOTT	A/P.O.	aining Effi ienc 5 4	Officen c- Keer y nes: 4 6 5	Keeps s and tal well.Ne Attitud need a tice af Knows h to get	ssions of Pen Remarks set in good o kes charge of eeds practice de is good bu great deal o t M.P.T. his job and i drill well o	rder SD's on MP t they f prac s anxi rganiz	Non-sub H.S.D. F. S.D. Ratings pugL.T.O.
<u>Ses7</u> <u>56587</u> <u>5657</u> <u>5657</u> <u>5657</u>	A/P.O.	aining Effi ienc 5 4 6	0fficen c- Keer y ness 1 6 5 6	rs' Impre - S Meeps s and tal well.Ne Attitud need a tice at Knows h to get D/Cs wed	ssions of Pen Remarks set in good o kes charge of aeds practice de is good bu great deal o t M.P.T. nis job and i drill well o ell cared for	rder SD's on MP t they f prac s anxi rganiz	Non-sub H.S.D. T. S.D. Ratings out.T.O.
<u>Sesonal Secondary</u>	A/P.O.	aining Effi ienc 5 4 6	Officen c- Keer y nes: 4 6 5 6	rs' Impre Attitud need a tice at Knows h to get D/Cs we A good cellent	ssions of Pen Remarks set in good o kes charge of aeds practice de is good bu great deal o t M.P.T. his job and i drill well o ell cared for seaman and an t QR II. Take	rder SD's on MP t they f prac s anxi rganiz n ex- s char	Non-sub H.S.D. F. Ratings Pust.T.O. ge Q.R.II
<u>S</u> Name 7.6587 D. PIMLOTT 3657 J. BROWN 75985 F. McTAGGART 2973	A/P.O.	aining Effi ienc 5 4 6	0fficen c- Keer y nes: 1 6 5 6 6	x Keeps s and tal well.Ne Attitud need a tice at Knows h to get D/Cs we A good cellent Knows h	ssions of Pen Remarks set in good o kes charge of aeds practice de is good bu great deal o t M.P.T. his job and i drill well o ell cared for seaman and an t QR II. Take nis job.Co-op fficers.Should	rder SD's on MP t they f prac s anxi rganiz n ex- s char erates i spen	Non-sub H.S.D. Ratings oug.T.O. ge Q.R.II ge Cox'n
<u>Name</u> Name N.6587 D. PIMLOTT 3657 J. BROWN V5985 T. McTAGGART 2973 D. BACKMAN	A/P.O. A/P.O. A.B. A/CPO	aining Effi ienc 5 4 6 6	0fficen c- Keer y ness 1 6 5 6 6 6	rs' Impre Keeps s and tal well.Ne Attitue need a tice at Knows h to get D/Cs we A good cellent weth wheth with of Interne	ssions of Pen Remarks set in good o kes charge of eds practice de is good bu great deal o t M.P.T. his job and i drill well o seamen and an t QR II. Take his job.Co-op fficers.Should ime on upper	rder SD's on MP t they f prac s anxi rganiz n ex- s char erates i spen jeck.T	Non-sub H.S.D. F. S.D. Ratings ed L.T.O. g.R.II ge Cox'n akes char tudy/c. (W)
Second Name Name Network Second Secon	A/P.O. A/P.O. A/P.O. A.B. A/CPO L/Sig	aining Effi ienc 5 4 6 6 6	Officen c- Keer y nes: 1 6 5 6 6	x impre Keeps s and tal well.Ne Attituc need a tice at Knows h to get D/Cs we A good cellent wellent Knows h to get D/Cs we A good cellent wellent Knows h to get D/Cs we A good cellent wellent Knows h to get D/Cs we A good cellent Knows h to get D/Cs we A good cellent Knows h to get D/Cs we A good cellent Knows h wellent Knows h to get D/Cs we A good cellent Knows h wellent Knows h Knows h	ssions of Pen Remarks set in good o kes charge of aeds practice de is good bu great deal o t M.P.T. his job and i drill well o all cared for seama and an t QR II. Take his job.Co-op fficers.Should ima on upper ( sted but need take charge i ll be a good	rder SD's on MP t they f prac s anxi rganiz n ex- s char erates i spen i spen i spen i srea i spen i srea i spen i spen	Non-sub H.S.D. F. S.D. Ratings ous.T.O. g.R.II ge d Cox'n akes char. tudy/sig. h.
<u>Name</u> <u>Name</u> <u>1.6587</u> <u>0. PIMLOTT</u> <u>3657</u> <u>1. BROWN</u> <u>75985</u> <u>1. BROWN</u> <u>75985</u> <u>2973</u> <u>0. BACKMAN</u> <u>7.3645</u> <u>1. MORRISON</u>	A/P.O. A/P.O. A.B. A/CPO L/Sig.	aining Effi ienc 5 4 6 6 6 5	0fficer c-Keer y ness 6 5 6 6 6	rs' Impre A Keeps s and tal well.Ne Attitue need a tice at Knows h to get D/Cs we A good cellent well Knows h with of more tes Should time with All wes	ssions of Pen Remarks set in good o kes charge of aeds practice de is good bu great deal o t M.P.T. his job and i drill well o seamen and an t QR II. Take his job.Co-op fficers.Should t out need: take charge r ill be a good ak at practice	rder SD's on MP t they f prac s anxi rganiz s char erates i spen ieto. T nore. I yeoma al and	Non-sub H.S.D. F. S.D. Ratings ous.T.O. ed L.T.O. ge Q.R.II ge Cox'n kees cher. tudy/Sig. Junior
Name Name 7.6587 0. PIMLOTT 8657 J. BROWN V5985 F. McTAGGART 2973 0. BACKMAN V.3645 J. MORRISON	A/P.O. A/P.O. A.B. A/CPO	aining Effi ienc 5 4 6 6 5 5 5	0fficer c- Keer y ness f 6 6 6 6 6 5	rs' Impre A Keeps s and tal well Ne Attitud need a tice a' Knows h to get D/Cs we A good cellent world Knows h with of more ti Interes Should time wi All wes books.	ssions of Pen Remarks set in good o kes charge of aeds practice de is good bu great deal o t M.P.T. his job and i drill well o ell cared for seama and an t QR II. Take his job.Co-op fficers.Should ime on upper sted but needs take charge n ill be a good ak at practices Need more inst	rder SD's on MP t they f prac s anxi rganiz n ex- s char erates i spen jeck. T s nore. I yaoma al and tructi	Non-sub H.S.D. F. S.D. Ratings ous.T.C. ed L.T.C. Q.R.II ge Cox'n akes char tudy/Sig. Junior on. Sigs.
<u>Session 2007</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u>	A/P.O. A/P.O. A/P.O. A.B. A/CPO L/Sig.	aining Effi ienc 5 4 6 6 6 5 5 5	0fficen c- Keer y nes: 1 6 6 6 6 6 6 5 5	rs' Impre A solution A trituce need a tice at Knows H to get D/Cs we A good cellent wellent Knows H to get D/Cs we A good cellent wellent wellent well A good cellent wellent More ti Interes Should time wi All wes books.N Does no Room foc	ssions of Pen Remarks set in good o kes charge of adds practice de is good bu great deal o t M.P.T. his job and i drill well o all cared for seaman and an t QR II. Take ficers.Should ina on uppar of sted but needs take charge n ill be a good ak at practices by appear into or improvement	rder SD's on MP t they f prac s anxi rganiz s char s char s char i spen leck.T s to s nore.II yeoma al and tructi erested	Non-sub H.S.D. F. S.D. Ratings out.T.O. Q.R.II ge d Cox'n hkes char tudy/Sig. h. Junior on. Sigs. d. L/Tel.
<u>Name</u> <u>Name</u> <u>7.6587</u> <u>9. PIMLOTT</u> <u>8657</u> <u>1. BROWN</u> <u>75985</u> <u>5. McTAGGART</u> <u>2973</u> <u>0. BACKMAN</u> <u>7.3645</u> <u>1. MORRISON</u> <u>7.3645</u> <u>1. MORRISON</u> <u>7.23257</u> <u>1. GRANT</u>	A/P.O. A/P.O. A.B. A/CPO L/Sig.	aining Effi ienc 5 4 6 6 6 5 5 5	0fficen c- Keer y ness f 6 6 6 6 6 5 5	rs' Impre A Keeps s and tal well.Ne Attitud need a tice at Knows h to get D/Cs we A good cellent well Knows h with of more tes Should time wi All wes books.N Does no to take They ar	ssions of Pen Remarks set in good o kes charge of aeds practice de is good bu great deal o t M.P.T. his job and i drill well o seamen and an t QR II. Take his job.Co-op fficers.Should man on upper take charge n ill be a good ak at practice need more inst ot appear inte or improvement charge more, re good operat	sonne rder SD's on MP t they f prac s anxi rganiz n ex- s char erates i spen leck.T snore.I yeoma al and tructi erested t.Need	Non-sub Non-sub H.S.D. S.D. Ratings oust.T.O. ed L.T.O. ge Q.R.II ge Q.R.II ge Q.R.II d Cox'n kes char, tudy/Sig. n. Junior on. Sigs. d .L/Tel. ad Junior
<u>Name</u> Name 7.6587 D. PIMLOTT 5.657 J. BROWN V5985 F. McTAGGART 2973 D. BACKMAN V.3645 J. MORRISON V.23257 J. GRANT	A/P.O. A/P.O. A.B. A/CPO L/Sig.	aining Effi ienc 5 4 6 6 6 5 5 5 5 5	0fficer c- Keer y ness f 6 6 6 6 6 5 5 5 5	rs' Impre A Keeps s and tal well Ne Attitud need a tice a' Knows h to get D/Cs we A good cellent well Knows h to get D/Cs we A good cellent well Knows h to get D/Cs we A good cellent well Mnows h with of Interes Should time wi All wes books.h Does no Room fo to take They ar are fai need to	ssions of Pen Remarks set in good o kes charge of ads practice de is good bu great deal o t M.P.T. his job and i drill well o ell cared for seamen and an t QR II. Take his job.Co-oper fficers.Should ima on upper sted but needs take charge n ill be a good ak at practics of appear into of improvement a charge more. re good operat inly interested o work and stu	rder SD's on MP t they f prac s anxi rganiz n ex- s char erates i spen ieck. T s hore. I yaoma al and tructi erested tors a ed but tors a	I Non-sub H.S.D. T. S.D. Ratings ous.T.C. ed L.T.C. g.R.II ge Cox'n akes char tudy/Sig. n. Junior on. Sigs. d. L/Tel. hd Junior rderfels.
<u>Session 2007</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u> <u>Name</u>	A/P.O. A/P.O. A/P.O. A.B. A/CPO L/Sig. L/Tel.	aining Effi ienc 5 4 6 6 6 6 5 5 5 5	0fficen c- Keer y ness f 6 6 6 6 6 5 5 5 5 5	rs' Impre and tal well.Ne Attitud need a tice a Knows h to get D/Cs we A good cellent well.Ne Knows h to get D/Cs we A good cellent well.Ne Mows h with of more ti Interess Should time wi All wes books.N Does no Room fac to take They ar are fai need to Quite a does no	ssions of Pen Remarks set in good o kes charge of adds practice de is good bu great deal o t M.P.T. his job and i drill well o ell cared for seama and an t QR II. Take nis job.Co-op fficers.Should in an uppar of sted but needs take charge nore ill be a good ak at practics be appear into or improvement of appear into or improvement inty intereste work and su	rder SD's on MP t they f prac s anxi rganiz n ex- s char erates i spen leck.T s to s nore.I yeoma al and tructi erested tors a ed but dy ha or but	Non-sub Non-sub H.S.D. T. S.D. Ratings ous. ous. ous. Q.R.II ge d. Cox'n http://sig. Dunior on. Sigs. d. L/Tel. hd Junior cderTels. L/RDF Operator
Name   1.6587   0. PIMLOTT   3657   1. BROWN   35985   1. BROWN   75985   2973   0. BACKMAN   V.3645   1. MORRISON   V.3645   1. MORRISON   V.23257   1. GRANT   V.66904   G. SMITH	A/P.O. A/P.O. A.B. A/CPO L/Sig. L/Tel. A.B.	aining Effi ienc 5 4 6 6 6 5 5 5 5 5 5 5	0fficen c- Keer y ness 6 5 6 6 6 5 5 5 5 5	rs' Impre A Keeps s and tal well.Ne Attitud need a tice at Knows h to get D/Cs we A good cellent well Knows h with of more tes Should time wi All wes books.N Does no co to take They an are fat need to Quite s does no or help Below s	ssions of Pen Remarks set in good o kes charge of aeds practice de is good bu great deal o t M.P.T. his job and i drill well o t M.P.T. his job and an t QR II. Take his job.Co-open fficers.Should may and an t QR II. Take his job.Co-open fficers.Should have charge for take charge of appear inte charge more, re good operation to take charge work and stu a good operato to take charge work and stu a good operato	rder SD's on MP t they f prac s anxi rganiz s anxi rganiz n ex- s char erates i spen leck.T s hore.I yeoma al and tructi erested t.Need tors al ed but tors.al or but	Non-sub H.S.D. F. S.D. Ratings ous.T.O. ed L.T.O. ge Q.R.II ge Cox'n akes char. budy/Sig. n. Junior on. Sigs. d. L/Tel. nd Junior rderTels. L/RDF Operator s.Junior
<u>Name</u> Name 7.6587 D. PIMLOTT 3.657 D. BROWN 7.5985 T. MCTAGGART 2973 D. BACKMAN 7.3645 J. MORRISON 7.3645 J. MORRISON 7.3645 J. MORRISON 7.6904 G. SMITH	A/P.O. A/P.O. A/P.O. A.B. A/CPO L/Sig. L/Tel. A.B.	aining Effi ienc 5 4 6 6 6 5 5 5 5 5 4	0fficen c- Keen y ness f 6 6 6 6 6 5 5 5 5 5 5 5	rs' Impre A Keeps s and tal well.Ne Attitud need a tice a' Knows h to get D/Cs we A good cellent well. Knows h to get D/Cs we A good cellent well.Ne A good cellent well. Nows h to get D/Cs we A good cellent well. Nows h with of Interes Should time wi All wes books. They an are fai need to Quite s doc nor help Below s More in	ssions of Pen Remarks set in good o kes charge of ads practice de is good bu great deal o t M.P.T. his job and i drill well o ell cared for seamen and an t QR II. Take his job.Co-oper fficers.Should ina on upper sted but needs take charge n ill be a good ak at practics of appear into or improvement a charge more. re good operato take charge irly interested work and shu a good operato take charge of take charge of appear anto of appear into of appear into of appear anto of appear anto of take charge of take charge	rder SD's on MP t they f prac s anxi rganiz n ex- s char erates i spen lack.T s to s s to s s nore.I yaoma al and tructi erested tors a ed but tors a tors, al and tructi erested tors, al and tructi erest al and tructi	Non-sub H.S.D. F. S.D. Ratings OUS.T.C. ed L.T.C. Q.R.II ge Cox'n Akes char tudy/Sig. D. Junior on. Sigs. d. L/Tel. hd Junior rderTels. L/RDF Operator Sunior
<u>S</u> Name V.6587 D. PIMLOTT 3657 J. BROWN V5985 F. McTAGGART 2973 D. BACKMAN V.3645 J. MORRISON V.3645 J. MORRISON V.23257 J. GRANT V.6904 G. SMITH	A/P.O. A/P.O. A/P.O. A.B. A/CPO L/Sig. L/Tel. A.B.	aining Effi ienc 5 4 6 6 6 6 5 5 5 5 5 5 4	0fficen c- Keer y ness 6 6 6 6 6 5 5 5 5 5 5	rs' Impre and tal Meeps s and tal Well.Na Attitud need a tice a Knows h to get D/Cs we A good celleni well. Knows h to get D/Cs we A good celleni well. Knows h with of more tis Should time wi All wes books.N Does no Room fail Below s Need more ir Fair. G still	ssions of Pen Remarks set in good o kes charge of adds practice de is good bu great deal o t M.P.T. his job and i drill well o ell cared for seamen and an t QR II. Take his job.Co-op fficers.Should take charge n t QR II. Take his job.Co-op fficers.Should take charge n take charge n take charge n take charge nors. re good operator take charge work and stu a good operator take charge work and stu	rder SD's on MP t they f prac s anxi rganiz s char erates i spen leck.T s to s nore.I yeona al and tructi erested t.Need tors a ed but udy ha or but erators. erators. erators. erators.	Non-sub Non-sub H.S.D. T. S.D. Ratings out.T.O. Q.R.II ge Cox'n kudy/Sig. Junior on. Sigs. d. L/Tel. hd Junior rdenTels. L/RDF Operators Derators

SECRET

Captain (D) Halifax

#### Office of The Training Commander

## Report on Working-up Programme (Continued)

## H.M.C.S." COBALT "

	SEA		
	Evolutions and	aacaamont	Remarks
Exe	rcises carried out A	ssessment	Appeared interested Suffering from
1	PO's & L/Smn.	Set.	effects of refit. Improved during WUP.
±	OoW Exercises		All Officers are inexperienced but CO
2	by day	Poor.	is giving them all the assistance
	OoW Exercises		Lack experience. No appreciation of
3.	by night	Poor	position of target when ship a ters course.
4.	Ship handling	Good	Commanding Officer capable and careful.
			Conditions were very unsatisfactory.
5.	A. S. Ps	Poor	Need a great deal of practice as a team
	Boarding Party		X.O. takes charge. has drilled his
<u>6.</u>	with S/M	Good .	Con fine a nattern in quick time.
_	Counter attack	Cood	Gunnery control good but all need drill
-7.	with watch on deck	Goode	in A/S.
0	Night	Cat	Gunnery well above average, but rest of
0.	activit procedure		organization requires practice.
0	Collision stations	Good .	Fire and repair parties know their job.
2.	0011101011 0 00 01010		Cood florible organization All officers
10.	Fire stations	Good.	know flooding arrangements.
<u>+0.</u>			
11.	Damage Control	Sat.	Shores placed satisfactorily.
			party.
12.	Anchor work	Sat.	Exercised daily. A capable focisle/
			Need much more practice with the
13.	Boat work	Fair	correct.orders_being_given
	Exercise	AL PROPERTY	
14	life boat's crew	Sat	Boat away in quite good time.
15.	Secondary steering	Sat	slow.
16.	Secure to buoy		Not carried out.
10	Prepare to		Poorly organized. Ships company slack
1/.	abandon ship	Poor.	in wearing lifebelts. Organization in-
8	heing taken in tow	Set.	Quite well handled by X.O. Ship well
	- outing danient in dow		- nanaloa by bebe
19.	Stream fog buoy		Not carried out.
-	Rig and lay		
20.	out Dan buoy		Not carried out.
-			Good reports to bridge. Exercised
21.	Heaving the lead	Good.	frequently.
20	Rig deen see lead		Not carried out
C.C.	TILE GEED SEA TEAU		MOD GALLTON MARE
23	R/T exercises	Sat.	Messages handled quickly and efficiently
		and the faith and a second	Well directed by X.O. Ship well handled
24	. Oiling at sea	Sat.	by C.O.
10000	Lookouts		Attitude good but require constant
25	. Exercises	Fair.	supervision by 0.0.W.
26	Pistor and		T. L. L.
20	• Reader Frank	Sat	Instruction given.
27	Full calibre firing	V. Cood	Frantional acouncer
. =1	Firing at	v. Good	
28	. sleeve target		Not carried out.
	A/G enorcises:		
1.2	. RDF, D/F & R/T	Poor	R.D.F. well below average.
	Escort duty: 48		
30	. nrs. with convoy		Not carried out.
2.1	Becampation nontice	0	Boat racing and Ball games entered
2.4	iccreation parties	0000	no enthusiastically

HMCS Cobalt – Cobalt's Namesake Goes to War
S-CRET.

Cantein (D) Halifax

Office of The Training Commander.

Report on Working-un Programme (Continued)

0. 7. C. 3. " COBALT.

Section 1 - Report on the Ship's efficiency in Cunnery.

This ship's Gunnery is well above average and G.C.O., Lt. Heward, controls the gun very well. The QR II takes charge of the gun's crew and looks after the armament very well. Magazines are clean and well stowed and there is evident attention to detail. Short range weapons are well handled

				1000	second in the local distance in the local di	of some later.					1			
Section 11 - Benart	on	the	S11.	TO	offi	c1	oney	5.5	r	" A/	SI	ini	t,	

Depth Charges: Organization Good. Seleading drill Sat.

Reloading time for full pattern of 10 charges 40 sec

D/C organization and drill is very satisfactory. The C.O. has quite a good knowledge of A/S but none of the other officers are capable of carrying out an efficient 0.0.W. counter attack. The A/S team needs considerable practice before they can be considered really satisfactory. The A/S C.O. has had a short A/S course but he definitely needs a refresher.

# Section 111 - Report on the Ship's efficiency in Communications.

This department would improve considerably if the Signal Officer would take charge and show more interest in his job. Both the L/Sig and the L/Tel. need to take charge more. There is at the present time a notice-able lack of attention to detail. V/S is weak at practical and books. W/T organization is fair and R/T is good. The whole communication branch showed a definite improvement during the W.U.P.

# Section 1V - Report on Shin's afficiency in Engine Room department.

It is evident that this department had been allowed to deteriorate over a long period of time and that agreat deal of work will have to be done before it reaches a satisfactory state of efficiency. Good work has been done during and after refit in general cleaning up and it is expected that new interest in their work has been given to Engine Room ratings. It is stated that the main propelling and auxiliary machinery is now working well. The ship completed refit 24th May, 1943 and came off slip 3rd June, 1943. The C/E.R.A., C.E. Glister took charge just prior to re-fit and has made good headway towards putting this department into an Section V - General Remarks. (efficient state.

This ship showed a definite improvement during the WUP due mainly to the energy and enthusiasm of the C.O. and X.O. The C.O., <u>Lt. Judges</u> is an efficient officer who handles his ship well and who commands the respect

of the ship's company. Lt. Heward, 1st Lieut., is a keen and very capable officer and interested in his work. He controls the ship's gunnery efficiently and in general works hard to improve the organization and fighting efficiency of the ship. Mage Bett is average as a navigator, but is only interested in his own job. He has shown a definite improvement in his general attitude under the present C.O.

S/Lt. MacMillan lacks the ability to take charge and has a poor power of command. As A/S C.O. he is definitely below average. S/Lt. Scovil should make a good officer. He has had 21 months lower deck and is very keen in all respects. S/Lt. Russell is a keen officer with agood power of command. He does

however, need to apply his energies to his own department, namely Signals.

. The D + H.M.C.S. "COBALT" required a thorough "Hogging Out" when she arrived at Pictou and WUP was handicapped by the state of the ship and gear generally. However the ship made a great effort to clean and work up at the same time. \* • • • • • • • I consider .H.M.C.S. "COBALT" is now up to average and will improve quickly under the forceful efforts of her C.O. and 1st Lieutenant. ares so and 5.0.0, 15. levers, not succes of the gur's ever and leols saines and slear and well showed and Hibbord I. bacet mange weapons are well. (J.C. Hibbard) COMMANIER, R.C.N. THE TRAINING COMMANDER. 11 -16-. boot with sale and in a ward date /RF \*\*\* = + = <u>+ + + +</u> as in an inter the article in a second party

# Appendix 5: Officers that Served Aboard HMCS Cobalt

Below is a list of all officers who served aboard HMCS Cobalt from the beginning of her active service in early 1941 to the end of the war.

This information is compiled from publications of the Canadian Navy List. Each publication of the list provided information on each officer serving in the RCN, including their rank, the ship or shore establishment where they were serving, and their seniority. Each publication also provided an update on the officer complement of each ship and shore establishment.

The Canadian Navy List was published from 1910 to 1965 and during the Second World War it appears to have been updated monthly or close to that. The <u>CFB Esquimalt Naval and Military Museum</u> has digitized all available Canadian Navy Lists to preserve them and make them available to researchers. They are also available at http://www.forposterityssake.ca/RCN-DOCS/NAVY-LISTS-RCN.htm

### September 1940

First reference to HMCS Cobalt in the Canadian Navy List. No officers are listed, and the entry says: Building at the works of Messrs. Port Arthur Shipbuilding Co., Port Arthur, Ont. The October, November, and December 1940 updates are available, and none refer to HMCS Cobalt despite her commissioning in November 1940.

### February 1941

Lieutenant Commander (in command) Robert R Campbell (RCNR) Lieutenant Norman E. Whitmore (RCNVR) Sub-Lieutenant William. W. Watson (RCNVR) Sub Lieutenant Jean P. Bousquet (RCNVR) Chief Skipper Lester W. Echlin (RCNR)

### **March 1941**

Lieutenant Commander (in command) Robert B. Campbell (RCNR) Lieutenant Norman E. Whitmore (RCNVR) Sub Lieutenant William W. Watson (RCNVR) Sub Lieutenant Jean P. Bousquet (RCNVR) Chief Skipper Lester W. Echlin (RCNR)

### June 1941

Lieutenant (in command) Colin J. Angus (RCNR) Lieutenant Norman E. Whitmore (RCNVR) Lieutenant Douglas I.W. Bruce (RCNVR) Lieutenant William J. Bichan (RCNVR) Sub Lieutenant William W. Watson (RCNVR) Sub Lieutenant Everett D. Palmatier (RCNVR) Chief Skipper Lester W. Echlin (RCNR)

# **July 1941**

Lieutenant (in command) Colin J. Angus (RCNR) Lieutenant Norman E. Whitmore (RCNVR) Sub Lieutenant Everett D. Palmatier (RCNVR) Chief Skipper Lester W. Echlin (RCNR)

### August 1941

Lieutenant (in command) Colin J. Angus (RCNR) Lieutenant Norman E. Whitmore (RCNVR) Sub Lieutenant William M. Whyte (RCNVR) Chief Skipper Lester W. Echlin (RCNR)

### October 1941

Lieutenant (in command) Colin J. Angus (RCNR) Lieutenant Norman E. Whitmore (RCNVR) Sub Lieutenant William M. Whyte (RCNVR) Sub Lieutenant David E. Howard (RCNVR) Chief Skipper Lester W. Echlin (RCNR) Chief Skipper Donald D. Morin (RCNR)

### December 1941

Lieutenant (in command) Colin J. Angus (RCNR) Lieutenant (G) Norman E. Whitmore (RCNVR) Sub Lieutenant William M. Whyte (RCNVR) Sub-Lieutenant Oswald O. Paddon (RCNVR) Sub Lieutenant David E. Howard (RCNVR) Chief Skipper Murdo Smith (RCNR)

# January 1942

Lieutenant (in command) Colin J. Angus (RCNR) Lieutenant (G) Norman E. Whitmore (RCNVR) Lieutenant George R. K. Lynch (RCNVR) Lieutenant Oswald O. Paddon (RCNVR) Sub Lieutenant David E. Howard (RCNVR) Chief Skipper Murdo Smith (RCNR)

# **April 1942**

Lieutenant (in command) Colin J. Angus (RCNR) Lieutenant Paul S. Major (RCNVR) Lieutenant George R. K. Lynch (RCNVR) Sub Lieutenant David E. Howard (RCNVR) Chief Skipper Murdo Smith (RCNR)

#### September 1942

Lieutenant (in command) Colin J. Angus (RCNR) Lieutenant John M. Home (RCNVR) Mate Ernest S. Cassels (RCNR) Sub Lieutenant Charles V. W. Laughton (RCNVR) Sub Lieutenant Forrest Angus (RCNVR) Sub Lieutenant George E. Best (RCNVR)

### August 1943

Lieutenant (in command) Ronald A. Judges (RCNVR) Lieutenant Charles D. Heward (RCNVR) Mate Alfred W. Bett (RCNR) Sub Lieutenant Norman M. McMillan (RCNVR) Sub Lieutenant Neil J. Russell (RCNVR) Lieutenant Walter G. Crawley (RCNVR) Sub Lieutenant Henry E. D. Scovil (RCNVR)

### October 1943

Lieutenant (in command) Ronald A. Judges (RCNVR) Lieutenant Charles D. Heward (RCNVR) Mate Alfred W. Bett (RCNR) Sub Lieutenant Neil J. Russell (RCNVR) Sub Lieutenant Henry E. D. Scovil (RCNVR)

### February 1944

Lieutenant Commander (Acting)(in command) Ronald A. Judges (RCNVR) Lieutenant Charles D. Heward (RCNVR) Lieutenant Neil J. Russell (RCNVR) Lieutenant (Acting) James E. Eakins (RCNVR) Mate Alfred W. Bett, George Medal (RCNR) Lieutenant Henry E. D. Scovil (RCNVR)

### **May 1944**

Lieutenant Alfred W. Bett, George Medal (RCNR) Lieutenant Charles D. Heward (RCNVR) Lieutenant Donald M. Williamson (RCNVR) Lieutenant (Acting) James E. Eakins (RCNVR) Lieutenant-Commander (Acting) Ronald A. Judges (RCNVR)

#### **July 1944**

Lieutenant (in command) Ralph M. Wallace (RCNVR) Lieutenant Alfred W. Bett, George Medal (RCNR) Lieutenant Donald M. Williamson (RCNVR) Lieutenant (Acting) James E. Eakins (RCNVR)

### September 1944

Lieutenant (in command) Ralph M. Wallace (RCNVR) Lieutenant John D. Carter (RCNVR) Lieutenant Donald M. Williamson (RCNVR) Lieutenant (Acting) James E. Eakins (RCNVR) Lieutenant (Acting) Thomas G. Markey (RCNVR) Chief Skipper Frederick E. Corneille (RCNR) Warrant Engineer (Acting) George F. Cairns (RCNVR)

# November 1944

Lieutenant (in command) Ralph M. Wallace (RCNVR) Lieutenant John D. Carter (RCNVR) Lieutenant Osborne K. McClocklin (RCNVR) Lieutenant Donald M. Williamson (RCNVR) Lieutenant (Acting) James E. Eakins (RCNVR) Lieutenant (Acting) Thomas G. Markey (RCNVR) Chief Skipper Frederick E. Corneille (RCNR) Warrant Engineer (Acting) George F. Cairns (RCNVR)

# January 1945

Lieutenant Commander (Acting)(in command) Ralph M. Wallace (RCNVR) Lieutenant John D. Carter (RCNVR) Lieutenant Osborne K. McClocklin (RCNVR) Lieutenant Donald M. Williamson (RCNVR) Lieutenant (Acting) Thomas G. Markey (RCNVR) Chief Skipper Frederick E. Corneille (RCNR) Warrant Engineer (Acting) George F. Cairns (RCNVR) Electrical Sub Lieutenant (Radar Duties) Theodore R. Marr (RCNVR)

# March 1945

Lieutenant Commander (Acting)(in command) Ralph M. Wallace (RCNVR) Lieutenant John D. Carter (RCNVR) Lieutenant Donald M. Williamson (RCNVR) Lieutenant William C. Gardner (RCNVR) Lieutenant Channing D. Gillis (RCNVR) Lieutenant (Acting) Thomas G. Markey (RCNVR) Chief Skipper Frederick E. Corneille (RCNR) Warrant Engineer (Acting) George F. Cairns (RCNVR)

# Appendix 6: Newspaper Articles Related to HMCS Cobalt

Except as otherwise noted below, these articles are from online searchable archives of historical newspapers. Articles from the Temiskaming Speaker are from PaperofRecord.com and the other articles are from Newspapers.com.

# NAME OF TOWNS FOR NAVAL VESSELS

According to Rear Admiral Percy W. Nelles, Chief of the Naval Staff, the new vessels, of the "Corvette" class just built or being completed in Canadian shipyards, will carry the names of different towns throughout Canada. The Canadian Navy's destroyers and minesweepers are named after rivers and from other geographical sources.

*Temiskaming Speaker, July* 11, 1940

> Temiskaming Speaker, October

> > 17.1940

Winnipeg Tribune, August 19, 1940. The oldest reference to HMCS Cobalt

# Corvette Launched On Lake Superior

[By The Canadian Press] A LAKE SUPERIOR PORT, Aug. 19. — Another ship for Canada's navy, first of a group of several corvette class vessels to be completed here, under contract for the Dominion government, was launched here Saturday. The vessel is H.M.C.S. Cobalt, christened in traditional style by Mrs. Gordon MacDougall, wife of the general manager of the plant which built several vessels in the Great War



CANADIAN CORVETTE TAKES TO THE WATER

Canada's major naval programme involves the construction of about 65 speedy corvettes and some 30 mine-sweepers, at a cost of approximately \$52,000,000. One of these sleek corvettes is here shown taking to the water at a recent launching.

HMCS Cobalt – Cobalt's Namesake Goes to War

# New Canadian Craft Will **Be Named H.M.C.S. Cobalt**

# Mayor and Council of Silver Town Planning Presentation to Vessel Which Will Get Name From Northern Ontario Centre

Cobalt, Nov. 4-Notified that one of the ships being constructed under the Dominion's new naval program is to be named after this pioneer Northern Ontario mining camp, members of Cobalt town council, at the November meeting held at the weekend, authorized the preparation of an appropriate souvenir, suitably inscribed, for presentation to His Majesty's Canadian Navy ship "Cobalt."

#### Corvette Type

The vessel, believed to be of the Corvette type, is nearing completion at one of the ports on the Great Lakes, and Lieut-Commander R. B. Campbell will be the

commanding officer. The gift to Men on Active Service the ship, it has been decided, will include specimens of ore natural to this camp, and the assistance include specimens of ore natural to this camp, and the assistance of A. A. Cole, mining engineer for the T. and N. O. Railway, is By Canadian Press for the T. and N. O. Railway, is

being sought to prepare the OTTAWA, Nov. 13.—Men in the Can-souvenir.

When H.M.C.S. Cobalt is ready special Christmas and New Year's to be commissioned, Cobalt officers leaves of six days though not more than and men of the Algonquin Regi-ment presently stationed at the any one time, the defence department

ment presently stationed at the Head of the Lakes, will be asked to represent the municipality. A letter is being sent from Mayor H. W. Rowdon to Captain A. R. Her-bert, who, with several other offi-cers from here and a large num-ber of other ranks, are the Cobat contingent of the Algonquins. The mayor also wrote to Lt.-Command-er Campbell, expressing good wish-leaves would be granted "as far as pos-in her.

es for the ship and those who sail sible, consistently with the necessities in her. of the wartime situation.' in her. # -11-44

From the War Diary of the Algonquin Regiment, November 1, 1940 to November 30, 1940. Library and Archives Canada, RG24, Volume 14997

# NAVAL VESSEL NAMED AFTER SILVER TOWN

First municipality in this part of Ontario to be so recognized, the mother camp of the T. & N. O. mining country will have a namesake in the Dominion's expanding naval forces, and in a short time now "H.M.C.S. Cobalt" will be'commissioned for active service in the present war. The ship, believed to be of the corvette type, has been under construction at one of the ports on the Great Lakes, and in a letter to Mayor H. W. Rowdon of Cobalt, and read to the town council at the November meeting of that body last Friday, her commanding officer, Lieutenant-Commander R. B. Campbell, wrote that she is almost completed and ready for allotted tasks.

Council decided to have a suitable souvenir of the silver camp prepared for presentation to the ship, and also to request officers and men of the Algonquin Regiment whose homes are in Cobalt, and who are stationed meantime in Northwestern Ontario, to represent their town at ceremonies incidental to putting the new boat in commission. The gift, which will be prepared with the assistance of Arthur A. Cole, mining engineer for the T. & N. O., will include specimens of ore appropriate to the camp, and a suitable inscription also will be drafted. Council delegated Councillor C. H. Taylor to attend to these duties in co-operation with Mr. Cole.

The mayor wrote to Lt.-Commander Campbell expressing good wishes for "H.M.C.S. Cobalt" and praying God's blessing on the ship and all who may sail in her. He also wrote Captain A. R. Herbert, Cobalt officer with the Algonquins, to make the request of the council. Other Cobait officers with the unit include Lieutenants G. L. Cassidy, Jock McLeod and Clark Robertson, and there are many Cobalters included in other ranks and serving with the Regiment at present. In his letter to the mayor, Lt.-Commander Campbell, an officer of the R.C.N.R., wrote that it would be "a happy gesture" if representative citizens could arrange to be present "before the ship proceeded into active service," and in reply the mayor referred to this "useful addition" to Canada's naval strength. *Temiskaming Speaker, November 7, 1940* 

# North Bay Nugget, November 15, 1940

A party of Cobalt officers and men from the Algonquins will fraternize with Naval men this week on "H.M.C.S. Cobalt," new Corvette-class naval boat being built at the lakehead. Capt. B. Herbert, of Cobalt, O.C. of the Algonquin Headquarters Company, will pay the respects of

Cobalt citizens to Lieut.-Commander Campbell, and will make a presentation to the Lieut.-Commander and his crew, on the new ship, on behalf of the Town of Cobalt.

# LUCK CHARM OF NATIVE ORE FOR H.M.C.S. COBALT

A typical piece of ore found in the Cobalt camp, and donated by the La Rose Mine, will form the base of the desk pen set to be presented by the municipality there 'o "H.M.C.S. Cobalt," the corvette addition to the Canadian navy named for the mother mining area of the T. & N. O. district. The ship is reported to be nearly ready for service and last week-end officers and men from Cobalt, and at present in winter quarters with the Algonquin Regiment, acted as hosts to the ship's crew, on behalf of their fellow-citizens and by authority of the town council.

the town council. The ore base, termed on the suggestion of Arthur A. Cole, mining engineer for the Temiskaming and Northern Ontario Railway, a "luck charm," has been sent to Toronto to be polished and prepared for its formal presentation to the vessel. On the desk set will be a silver plate, and on this there will be an inscription reading as follows: "Luck Charm of silver-cobalt-nickel ore from the La Rose Mine; presented to H.M.C.S. Cobalt by the Town of Cobalt, Ontario, Canada; Nov-ember, 1940." Mr. Cole, who has co-operated with the town council in securing an appropriate gift for the town's naval namesake, proposed the wording.

Mayor H. W. Rowdon told The Speaker on Monday that the ore, which weighed several pounds, was regarded as a representative specimen of native mineral. His Worship declared that the services of (Continued on Page Six) Temiskaming Speaker, November 28, 1940

# LUCK CHARM

(Continued From Page One) Hugh Sutherland, Toronto mining man associated closely with the La Rose property, scene of the original "find" in the Cobalt camp thirtyseven years ago, had been enlisted in making the souvenir gift complete for handing over to the officers and men manning the corvette, which has been built on the Great Lakes.

The Cobalters with the Algonquins had a cruise on "H.M.C.S. Cobalt" a few days ago, according to a message home from Captain A. R. Herbert. Later, a social hour was held on the ship, with the Cobalt men entertaining their naval colleagues and rendering during the proceedings, with due gusto, the "Cobalt Song." Other officers participating in the proceedings are stated to have been Lieutenants G. L. Cassidy, Jock McLeod and C. B. Robertson, school teachers from the silver town who enlisted with the Algonquins.

# HANG PICTURE SHIP NAMESAKE IN COBALT HALL

An enlarged photograph of H.Y. C.S. Cobalt is to be hung on the walls of the council chamber at the Cobalt town hall, it was stated this week. The picture will show the ship, a corvette built at a Great Lakes port, complete and ready for service. Three smaller photographs have been on display at the office of A. L. Herbert in Cobalt, having been sent there by Captain A. R. Herbert, of the Algonquin Regment, and who was in charge of the Cobalt party which did honors when the town officially recognized the vessel as its namesake. These pictures show the ship on the stocks while being built, in the act of being launched sideways and afleat after launching. The town also is presenting H.M.C.S. Cobalt with a desk pen set whose base is a typical piece of ore from the camp.

*Temiskaming Speaker, December 12, 1940* 

> Temiskaming Speaker, February 6, 1941

## PRESENTATION SET ON DISPLAY IN COBALT STORE

The desk set presented to H.M. C.S. "Cobalt" by the town council of the vessel's namesake, on behalf of the citizens of the silver city, has been on display this week in the window of the office at Cobalt of A. L. Herbert, whose son, Captain A. R. Herbert of the Algonquin Regiment, made the formal announcement of the gift to the officers and crew of the ship. Resting on an onyx base is the piece of LaRose silver-cobalt ore, highly polished, that forms the souvenir, and on it is the "good luck charm" inscription prepared by A. A. Cole, mining engineer. The pens and parts of the base are mounted in silver.

North Bay Nugget. April 12, 1941 \* \* \* Cobalt Has One

When Cobalt was honored in a similar manner, the townspeople left nothing undone to honor the men who would man the subchaser bearing the Cobalt name and extensive plans were made to coincide with the day the new corvette was launched at a Canadian shipbuilding yard. Sudbury has since been honored in a similar manner and according to the latest news is enthusiastically preparing to acknowledge the move. *Ottawa Journal, February 24, 1941. (Credit: Collection of Ronald Judges, courtesy of Chanin Graham, personal communication with the author.)* 

The Ottawa Journal (Ottawa, Ontario, Canada) · 24 Feb 1941, Mon · Page 2



*Port Arthur Daily News Chronicle, October 14, 1961, referring to an October 14, 1941, article about the Cobalt Club, formed in 1940.* 

# NORTHWEST OF THE PAST

### 20 YEARS AGO

The Ontario department of public welfare announced it was abolishing the position of district relief administrator for the combined districts of Thunder Bay, Rainy River and Kenora, effective Oct 31, on which date M K Morrison, who had held the post for four years, would retire

Ships in Lake Superior reported having to cut their speeds up to 50 per cent as heavy winds buffeted the waterway

Joseph York, son of Mr and Mrs J York, 21 Mona St, a stoker in the RCNVR, returned to the east coast to continue training after spending a leave with his parents here

John C Dobie, son of Mr and Mrs E J B Dobie, Regent Street, left for Ottawa where he accepted a position in the civil service

Mr and Mrs J Edwards, 295 Wolseley Street, left for Wells British Columbia

• Mrs Clifford Southern was elected president of the Cobalt Club, a club formed a year ago to supply knitted goods for the crew of the corvette, Cobalt, which was built at the Port Arthur Shipyards

# 40 YEARS AGO

Hunters began 'oiling their, guns in preparation for the partridge season which began at sunup

Hugh O'Leary, former district judge, was asked to accept the Liberal nomination for the coming federal election

J R Gillespie was re-elected president of the Fort William Lawn Bowling Club in a meeting held in the City Hall

James Bennett left for Toronto via CPR

William Scott and P. Chace left for Whitefish Lake to try their luck at duck hunting

T Servais, Whitney Scott, B McTeigue and T McCuaig left on a duck hunting trip down the CPR line

Mr Kennefick of the fish hatchery staff returned from Orient Bay with a quantity of spawn for the local hatchery. Ald Frank – Spence, F J. Bourke, J B Hardy and W J

Wood, local druggists, returned from Atikokan where they assisted searchers in locating Dr Graham Chambers, prominent Toronto physician, who was lost in the woods for over a week while on a hunting trip Temiskaming Speaker, December 24, 1941

Unfortunately, the bottom part of the article is not legible, so two or three paragraphs are missing.

# CLUB IS FORMED TO HELP COBALT CORVETTE CREW

For the purpose of "adopting" the Canadian corvette which bears the name of the silver town, and which to some extent through force of circumstances is stated to have been an "orphan" ship, the H.M.C.S. Cobalt Club is being organized, its members to be men formerly connected with the camp, assisted in measure by present residents of the community there as response is made. Already, in initial efforts, arrangements have been made for supplying magazines regularly, approximately a half-month's supply of cigarettes has gone forward and three radios have been provided for the use of the crew.

Members of the club, as a starter, include Richard Pearce, one of the editors of The Northern Miner, H. C. McCloskey, formerly of the Mc-Kinley-Darragh mine, Fraser D. Reid of the Conlagas property, and Gilbert LaBine, all men who were associated with mining in Cobalt's earlier days. Administrator of the fund which is to be provided is R. S. Taylor of New Liskeard, and for years a citizen of Cobalt, and who had been asked to take over those duties. Other mining men are to be approached, it has been indictated from Toronto, and the Kiwants Club in Cobalt itself is expected to play its part in the project.

Donations of \$50 each from the Toronto men mentioned were the first financial contributions to the fund, and other money will be raised. It was stated here that some 10,000 cigarettes had been forwardied to the ship, which carries a crew of 69 officers and men, while subscriptions have been placed with six well-known magazines of a wide variety of interests, and for two copies apiece these to be sent regularly through the naval authorities. It is probable, also, that fruit for the crew will be available when the ship is in port, through the fund, although the commanding officer had indicated that it was scarcely fetable to have this particular comfort at other times, since the corvette is at rea for considerable periodz.

# H.M.C.S. Cobalt Sees Action

His Majesty's Canadian Ship | "Cobalt" has seen plenty of action, some of it termed "successful", in the Atlantic ocean, it was reported here this week of that trim corvette, built in a Great Lakes shipyard and named for the famous silver town, rew encountered by chance on a transcontinental railway train by two Temiskaming air force members en route to their home district on leave. The ship, it was explained, had been on convoy duty. This news of H.M.C.S. "Cobalt" was given by Telegraphist W. C. Perry, whose home is on the prair-to LAC Lorne Pacey and his brother, LAC Grenville Pacey, who this week are on a visit from the Far East to their parents, Mr. and M.s. Roy Pacey of Kerns township. in which he had sailed.

Temiskaming Speaker,

November 26, 1942

The former is stationed at Coalhaven, in northern British Columbia, and his brother is at Vancouver, and it was while they were heading Temiskamingwards that they met Telegraphist Perry, who was re-turning then to his East Coast duties after spending a brief leave at home.

Getting into conversation with him, the Pacey brothers learned that the boys manning the corvette "are the swellest bunch of fellows I have ever sailed with," in the Telegraphist Perry. opinion of The crew have reason to be proud of their ship, it was stated, and Perry told the brothers from Kerns township that he had been on a number of corvettes, that the "Cobalt" was very well fitted-up for her duties and indeed, in this respect, was "by far the best" of the craft

Temiskaming Speaker, March 26, 1942

# Gets Word from Joe Howie

Mayor Taylor Of Cobalt **Hears From Englehart Man** Now With Navy, Who Reports Having Worked With Men From Corvette "Cobalt"; Had Dinner There

Word that cigarettes being provided by members of "The Old-Timers of Cobalt" organization are reaching the crew of the corvette named for the Silver Town has been received by mayor C. H. Taylor there through the medium of a letter from Joseph Howie, prominent in Masonic and Odd Fellows work in this district, and presently on active service with the Royal Canadian Navy. Mr. Howie, who in peace time is locomotive foreman for the T. & N. O. at Englehart, is now Chief Engine Room Artificer on the corvette "Stadacona."

In the letter, Mr. Howie told how quite recently he had come in contact with Jack McLennan, who holds a similar rank to his own, but ing with him on some job. Another on the "Cobalt" corvette, and how friend of Mr. Howie is the Chief the latter had produced a packet h. R. A. of the corvette "Timmins", of cigarettes. In the container was mayor Taylor was advised.

a small card, on which was printed the information that the fags were sent with the good wishes of the Old-Timers, which is composed of former residents of Cobalt now living elsewhere, and chiefly in Toronto. Acknowledgment of the cigarettes through R. S. Taylor of New Liskeard was requested, and Mr. Howie requested mayor Taylor, as a fellow-employee on the railway, to pass the word along that he had sampled the packet's contents.

The "Cobalt", according to the opinion of Mr. Howie, is "a good ship." He had had an opportunity of going aboard that corvette while in a Canadian port and had taken dinner aboard her, together with the appropriate "tot." Mr. Howie noted in his letter that here was some connection between the North Country and the ship damed after one of its best-known centres, and he added that two seamen from the "Cobalt" had been work-

# New Skipper For "Cobalt"

**Corvette** Named For Silver Town Gets High Praise From Her Commanding Officer; Comforts Provided By Old Timers Group Much Appreciated

The stout corvette known as His Majesty's Canadian Ship "Cobalt" has a new commanding officer, information reaching contributors to the special fund raised by Old Timers of the Silver City, and devoted to buying comforts for the crew of the vessel, discloses. The skipper now is R. A. Judges, Lieut. (n), R. C. N. V. R., and who, in writing to R. S. Taylor at New Liskeard to apologise for delay in getting in touch with him before on matters relating to the fund, notes that "I know you will readily realize that in taking over a new command there are a million and one things to be attended to.'

Another reference to the fund comes from Lieut. John M. Home, R. C. N. V. R., who is a Montreal lawyer in private life, but who at present is executive officer on the "Cobalt." He informed a contributor to the fund that "I make the Please be assured that we shall most of my leisure time, while on short leave from H. M. C. S. 'Cobalt', to write a few lines of appreciation' for the splendid work done by your group." Lieut. Home the town of Cobalt can be justly adds that "all the articles sent to the ship are greatly enjoyed and "your untiring efforts in assuring put to good use. The cigarettes are the comfort, recreation and welfare a positive been (especially as sail- of my crew."

ors, officers included, spend their money fast) and the magazines are passed around the ship from mess to mess and read from cover to cover in the off-watches."

Lieut. Home continues: "You may rest assured that if 'Cobalt' is efficient (and it would take a brave man to tell us that she is not!), credit must be given to your group in large measure for maintaining morale." The new commanding officer notes that on taking over from Lieut. Commander Angus, "I found that H. M. C. S. 'Cobalt,' through the kindness and efforts of yourself and others, is extremely well taken care of, and I am quite sure that I would not be making an overstatement if I said it was the best taken care of ship that it has been my pleasure to serve on since the commencement of war."

· Lieut, Judges adds that "I know | it is not necessary for us to convey, what my predecessor has already told you, of just how much this is appreciated by my officers and ship's company. I only hope that at some future date I shall have the opportunity of extending my thanks to you personally. carry on in the same manner and with the same fighting efficiency and spirit as in the past; in other words, retain the name of which proud." He closes with thanks for

Temiskaming Speaker, August 26, 1943



oceans of the world. The Canadian Navy has expanded from 15 ships to 550 since the beginning of the war.

Sixty thousand men (and many women) are now engaged in Canada's

shipyards-some on the Atlantic Coast, some on the St. Lawrence and the Great Lakes, others on the Pacific coast. Shipbuilding hasbecome a major Canadian industry.

ach little warships.

Back of all this activity in the shipyards is the work of producing parts and materials. Ninety per cent, of the materials and fabricated parts are products of Canada.

At every stage of this long line-from forest and mine to mill ... to the shipyard ... to the ship, finished and afloat-the need of bank service is not less than the need for power.

Contractors, lumbermen, miners, riveters, sailors-all classes and in fact all persons use the bank. We are glad to be of service to shipbuilders and sailors participating in Canada's war effort.

# IMPERIAL BANK OF CANADA

NEW LISKEARD BRANCH - J. S. INK, Manager MATACHEWAN BRANCH - N. M. PLANT. Manager

Advertisement from the Temiskaming Speaker, September 9, 1943

Toronto Telegram, November 20, 1943. (Credit: Department of National Defence)



Toronto Telegram, November 20, 1943. (Credit: Department of National Defence)

RCNVR, of Montreal) did a fine job of getting a boat away," said the skipper. "We'd never have found the chap but for the whistle at tached to his life belt. Three's a whistle on every belt, and we all wear life belts when we're at we all wear life belts when we're at we all the time. The man kept blowing the time. The man we're allowing the time. The man we're allowing the time. The man we're allowing the time. The yor back safely to your face. They got back safely to the ship, finding if by our siten, and	the got battered in and was no use salvaging." The guy who thought The rescued seaman told me thankfully: "The guy who thought of putting whistles on life belts is tops with me. I was in the water maybe half an hour, long enoth vo find out it was darned cold. But I withwark, employe of the Can- adian General Electric plant at Pe- terboro before joining the may, said he hadn't written his wife about his experience, thinking it might worry "But I guess it wout it," he said, "seeing as I came out of it O.K."
play one another football or baseball. The majority of the men put on weight-plump right up-on the regime of fresh sea air and plenty of good regular food. "Not their skipper," I said, survey- ing Lieut, Judges 'iaan frame. "No, Tin afraid I don't ea tregular- ly," he said, "and when were at sea I don't eath, much silep. I never the weich out on the cother soft-just furth, on the on the once will my	and my feet against the other, and then 1 don't fall off as the ship rolls and pliches. It's no smooth ride on a corvetle, you know." Last time out it was so far from smooth that a man went overboard as the Cobalt heeled over. He was saved—but only by a whistle. The seaman - 21-year-old A.B. Milton Whymark of Oakwood, near Lindsay—had to jump overboard to avoid being pinned by a swinging sea-boat. It was mid-afternon, but a thick fog shrouded everything, and the Atlantic was very rough. SAVED BY WHISTLE "The No. 1 (Lieut. Denys Heward,
zens have "adopted" the ship and her company, and have given them special radios which can be used at sea without danger of detection by the enemy, gramophone and records, tosters, iron, cigarettes and com- forts and goodies galore. The Co- balt proudly carries as ship's crest a plaque showing a buyy bee, in miner's kth drilling a swastka. "We're certainly well looked after," said Lieut, Judges, "Between the people of Cobalt, the Navy League and the Red Cross were	properly spoiled. We are well sup- plied with woollens and, believe me, we really need them—out there. Especially when you get wel, Then you need a complete change. Most of the lads aboard corveties are seasick at first, but get over it and are seldom troubled thereatter. DEPEND ON NEW PILL. "Our senior steward was seasick all the time on our last trip," said Liett, Judges. 'The toted a bucket around with him and just carried on. He'll likely get over it." shore duty the navy's new seasick- ness pill is available for him. Whenever possible, ships' crews
Judges, keen blue eyes running lov- ingly over Cobalt's length. "Everything happens to us," he went on. "We'll have to take the paint right off to get the oil off, too." A lot has impened to Corvette K— in three years, and in the six months since her command passed in the six protectial "cong with a six potential "skipper" ma- terial. "FEAL SHAKING UP" In the Battle of the Atlantic, the cobalt has time and again been in the thick of it. The Navy hardly whispers, much less talks—but some time back, in the course of a gruel- ling two-day, three-night engage- ment with U-boats. Cobalt really the thick up, us tabs where she want- ed it. "We think we gave that sub a real shaking up," said Lieut, Judges. "I ean't say up," said Lieut, Judges. "I	Convoy duty for a correctle, in his words, is "sometimes very monoton- ous, sometimes very metoton- outs often three is a happy medium. You go along for days and nothing hap- pens. Then it's like all hell breaking loose. A correctle crew's work is never done. It's a constant round of paint- and fighting. "Tve got a grand crew, and fine officers," said the tall young skipper, leaning, scaping, checking equipment- and fighting. "Tve got a grand crew, and fine officers," said the tall yourg skipper, leaning skipper, leaning sing scripter, a a report.strewn desk centred by a point and penil stand which is a "luck charm" of silver Cobalt nickel ore from the La Rose-Rouyn mine.
By PHYLLIS GRUFFITHS Telegram Staff Reporter An Eastern Canadian Port, Nov. 20 Her backs were greasy with oil, er paint was rusted from salt spray, and you'd have said at a glance that the had seen some wear and consul- rable tear. But the very sight of corvette K— quickened one's pulses is she rested briefly in port from damite convoy work. Corvette K— is the Cobalt, for the Intantic convoy work. Corvette K— is the Cobalt, for the internation mining centre of that name, he is manued by a crew which is a all 50 per cent, from Ontario. Better an haft of that half from conto, and the commanding officer an 3-year-old Troontonian—Liett, brand Judges, RCWR, whose Nei- tre of R.C.X.C. won mary a pre-1339 splay advertising contract for The vening Telegram. When the Nawy invited this re- vening Telegram.	ame time of seeing the Colari, one as built in an Ontario shipyard, at our Arthur, and was injected into be great barth e against U-boats ore than three years ago. The second of the second second of the second when I skidded board, her crew members were usly and defly at work preparing er for sea again. Fresh paint would uhmerge her rustiness, her boliers gere getting a cleaning, and the ursed oil which had given her an nwanded over her, was going to be raped off laboriously.

HMCS Cobalt – Cobalt's Namesake Goes to War

# Toronto Telegram, November 20, 1943. (Credit: Department of National Defence)



Lt. Ronald Judges Describes Daring Rescue Of Lindsay Area Seaman, Who Credits Whistle With Saving Life After Half an Hour in Water



Top-A.B. Milton Whymark, of Oakwood, Ont., standing beside Cobalt's crest, happily shows the lifesaving lacket whistle that saved his life. Bolow-A group of Toronto lads, members of Cobalt's crew, look over some snapshots from home in their guarters aboard ship. Front, left to right-Stoker Walter Palonen, Leading Seaman Johnny Sampson; A.B. Edgar Chambers. Back-Sick Berth Attendant Johnny Lees; A.B. Frank Brown.

# Navy Citations Detail Acts of Heroism at Sea

Ottawa, Jan. 3 (CP). - In brief leave the Louisburg. He assisted in citations, the Royal Canadian Navy rescue work despite the loss of an told today of acts of bravery at sea eye and other wounds. which brought operational awards Posthumous Mentions. to 40 of its personnel in the New



and extinout on a United States a fog.

corvette Cobalt.

and helped fight the blaze for more than two hours with hand extinguishers. The ship was in danger of blowing up at any moment.

For their part in this exploit Engine Room Artificer James M. Werely of Sorel, Quc., and Signal-man Michael J. Fitzgerald of To- was injured, received the British man Michael J. Fitzgerald of To- was injured, received the British ronto received the British Empire Empire Medal. Lieut. Donald Logie, Medal. Acting Lt.-Cmdr. Ronald A. Judges of Toronto was mentioned of the damage-control party, and in despatches for the spirit and skill Stkr. PO. Hugh Scott of Montreal, shown in laying the Cobalt along- who helped d'Aubin with the enside the blazing tanker.

Acts of bravery during the sinking of the corvette Louisburg by enemy aircraft in the Mediterranean early in 1943 brought awards to six men.

Lt. William R. Wright of Lachute, Que., awarded the Distinguished Service Cross, was the last man to

Lt. Cmdr. William F. Campbell of Year's honors list. The citations disclosed Mate Aifred W. Bett of Toronto was awarded the George Medal for leading a vol-unteer board-ing party which fourpht One was mentioned in despatches. Son-Bennett of Calgary and OS. which fought Que, were mentioned in despatches. Campbell, "due to his rapid sumguished a fire ming up of the situation and his which broke prompt action," was responsible for saving many lives but lost his own. gaso- his citation said. Merryweather lost line tanker his life by giving his lifebelt to anafter it collid-other rating. Ritson-Bennett, when ed with an- the water was above his knees, other ship in stopped to unstrap a man from his fog. Bett led a Oliphant and Guersette were also party from credited w the Canadian shipmates. credited with saving the lives of

Bravery and endurance in a hitherto-unannounced collision involving a Canadian ship brought decorations to three men.

Engine-room Artificer Donald R. d'Aubin of Sydney, N.S., who took; charge of the engine-room and got of Hampton, N.B., who took charge gines, were mentioned in despatches.

Membership in the Order of the British Empire went to Sub-Lt. Campbell E. Cork of Sydney, N.S., who led a boarding party which saved a damaged ship. After a daylong struggle, the efforts of Cork and six men made possible the beaching and eventual salvage of the vessel.

Canadian Press, January 3, 1944

Newspaper this is from is not known.

(Credit: Collection of Ronald Judges, courtesy of Chanin Graham, personal communication with the *author*)

On the following pages is a press release from the RCN, released on March 22, 1944, providing details of an incident in which crew members of the Cobalt boarded a burning oil tanker and extinguished the fire, allowing the tanker and cargo to be salvaged, as described in Section 9. (Credit: Department of National Defence)

This press release came out six months after the incident occurred on August 19/20, 1943. The postincident investigation referred to in Section 9 was submitted to Rear Admiral Murray, The Commanderin-Chief, Canadian North West Atlantic, on August 27, 1943. Thus, it was known long before this press release was written that the investigation had concluded that no submarine was in the vicinity of the convoy. The accounts of HMCS Cobalt's attacks provided in the press release are accurate, but the press release fails to mention the investigation and its conclusions, in effect propagating a myth that the convoy had come under attack. It makes for a good story, and Ronald Judges and the crew of HMCS Cobalt really did think that they were attacking a U-boat. But perhaps the myth made a better story than the truth, which could have reflected badly on Judges and his crew by readers who didn't have all of the facts about what happened in the chaos of the dark and fog on the North Atlantic. Was it propaganda? Or a well-meaning attempt to tell the story in a way that reflected the best of what Canada's sailors were doing while not inadvertently making them look foolish?

# 331 25

#### ROYAL CANADIAN NAVY OFFICIAL PRESS RELEASE

RELEASE DATE -- Wednesday Mar 22, 10 A.M., E.D.T. An East Coast Canadian Port -- The nerve-straining conditions under which a fire party from the Canadian Corvette Cobalt boarded a blazing gasoline tanker and saved the ship and its cargo from certain destruction, were described here today. The R.C.N. revealed that the incident occurred in the West Atlantic after a long series of anti-submarine attacks had kept the corvette's crew at action stations almost continuously for two days.

Cobalt's fire-fighting exploit was referred to in brief citation at the year-end when the names of the captain, the navigation officer and two members of the crew appeared in the R.C.N.'s decorations and awards list. Mate Alfred W. Bett, R.C.N.R. of Toronto, who led the fire party, has been awarded the George Medal. Engine Room Artificer, fourth class, James A. Wereley, R.C.N.R., Sorel, Que. and Signalman Michael J. Fitzgerald, R.C.N.V.R. of Toronto, both get the British Empire Medal for their part in the salvage of the tanker.

The corvette's captain Lieut.-Commander Ronald A. Judges, R.C.N.V.R., of Toronto, was mentioned in despatches/throughout the for the skill and leadership he displayed

The tanker, travelling in a convoy bound for Britain, collided with another merchant ship in a fog at night and burst into flames which swept through the midship living quarters, killing a dozen men in the crew. All those who could escape were forced into lifeboats a few minutes after the collision.

To the men in the Cobalt, screening the rear of the convoy against U-boats, it looked like a submarine attack.

"We saw a red glare in the fog over the convoy," Lieut.-Cdr. Judges reported later, "and by a freak coincidence almost at the same instant our Asdic operator picked up the 'hydrophone effect! of a torpedo coming at us.

"We altered course toward the approaching torpedo and almost immediately we began to get action. We picked up a strong submarine t and fired a full pattern of depth charges. A few minutes repeated the treatment." Sticking to the scent, Cobalt followed the U-boat contact a short distance and attacked again. The Captain had evidence that he was getting results.

-2-

"We could shell oil on the surface of the sea and we heard an underwater explosion that could not be classified as a depth charge," he sold. "We had reason to feel we were giving a U-boat a masty pasting."

With depth charge parties working at savage speed in the darkness, loading the trrovers with their heavy cans of high explosive, they got in two more attacks on good contacts that night before they had to rejoin the convoy.

Next day the Cobalt screened the tanker which was still afloat but wallowing in the swells and burning fiercely. They searched the area, without results, for survivors who were eventually rescued by another ship more than forty miles away.

In the afternoon, the corvette picked up fresh U-boat echoes and delivered two more attacks. The hunt went on during a second night. The final attack, made the next day, was delivered close to the burning tanker.

"By mid-afternoon," Lieut.-Cdr. Judges said, "it appeared that we had driven off the U-boats for the time being, or put at least one out of action. At any rate there were no new contacts and we decided to have a look at the tanker."

The vessel was still blezing but to the Cobalt's ceptain and Mate Bett, the navigating officer, "she looked salvageable."

Taking E.R.A. Wereley to examine the tanker's engines and Signalman Fitzgerald to keep the party in contact with the Cobalt Mate Bett loaded the corvette's portable fire fighting equipment into a seaboat and with the boat's crew of seamen at the cars, they pulled over? the burning ship.

"We found the loading hatches blazing," Mate Bett said, "but once we got the extinguishers going we made steady progress. In two hours, we had the fires out." Equipped only with asbestos gloves and their anti-gas respirators, the fire party found the intense heat and gas funes all they could stand. In the galley, they counted the burned bodies of 10 merchant seamen who had been trapped, beyond help when the ship was abandoned.

-3-

"Everything above the main deck was burned out," Mate Bett reported, "but when the fires were out we discovered that we had suved more than 80 per cent of the cargo of gasoline and by the time we left the ship she was ready to be towed into port."

Official recognition of the job done by the Cobalt's fire party is contained in the citation accompanying the award of the George Modal to Mate Bett. "This officer and his party fought the fires for over two hours," the citation reads, "although they knew the ship was in danger of blowing up at any moment. . ."

Honourable mention and full marks for a big contribution to the success of the job were awarded by Mate Bett to the members of the seaboat's crew who ferried the fire party to the tanker, later helped with the fire fighting and stood by to take them off. In the boat's crew were, Leading Seaman Dougles McElroy of Gatineau, Que., AbleSparan James F. Brown of Toronto, A.B. Garfield Smith of Toronto, A.B. R.E. Smith of Port Arthur and A.B. Leo Sulliven of Censo, N.S.

-30-

The following are different published media articles based on the above press release. It is interesting to see how the writer of each article emphasized slightly different aspects of the description in the press release.

# CORVETTE SAVES TANKER CARGO

An East Coast Canadian Port, March 22.—(CP)—After delivering a series of attacks against submarines in the western Atlantic, men of the Canadian corvette Cobalt boarded a blazing gasolene tanker and saved the ship and its cargo from destruction.

For this exploit, Cobalt's captain, Lieut.-Cmdr. R. A. Judges, Toronto, was mentioned in dispatches at year-end in the navy's decorations and awards list, and the George Medal was awarded Mate Alfred W. Bett, of Toronto, who led the fire party. Engineroom Artificer J. A. Wereley, of Sorel, Que., and Signalman M. J. Fritzgerald, of Toronto, each were awarded the British Empire Medal.

The tanker, bound for Britain, collided in a fog at night with another merchant ship, and burst into flames. Cobalt's crewmen, screening the rear of the convoy against U-boats, thought it was a submarine attack.

Cmdr. Judges said that just as a red glare was noticed in the fog, the corvette's asdic operator picked up the "hydrophone effect of a torpedo coming at us." Cobalt altered course towards the torpedo, picked up a strong submarine contact and fired one and then another depth charge pattern.

After a third attack, the crew could smell oil on the surface of the sea and heard "an underwater explosion that could not be classified as a depth charge." Judges said. "We had reason to feel we were giving a U-boat a nasty pasting."

The tanker was still blazing when Cobalt closed with her, but the officers thought she looked salvageable. Mate Bett loaded fire-fighting equipment into a seaboat, took Wereley and Fitzgerald with him and went aboard the burning ship. In two hours they had the fires out. Canadian Press, March 22, 1944

Newspaper this is from is not known.

(Credit: Collection of Ronald Judges, courtesy of Chanin Graham, personal communication with the author)

ard, 944

# HMCS Cobalt Saves Tanker

An East, Coast Canadian Port, March 22—(CP)—After delivering a series of attacks against submarines in the eastern Atlantic, men of the Canadian corvette Cobalt boarded a blazing gasoline tanker and saved the ship and its cargo from destruction.

For this exploit, Cobalt's captain, Lt-Cmdr. R. A. Judges, Toronto, was mentioned in dispatches at year-end in the navys decorations and awards list, and the George Medal was awarded Mate Alfred W. Bett of Toronto, who led the fire party. Engine Room Artificer J. A. Wereley, of Sorel, Que., and Signalman M. J. Fitzgerald of Toronto each were awarded the British Empire Medal.

The tanker, bound for Britain, collided in a fog at night with another merchant ship, and burst into flames. Cobalt's crewmen, screening the rear of the convoy against U-boats, thought it was a submarine attack.

Cmdr. Judges said just as a red glare was noticed in the fog, the corvette's asdic operator picked up the "hydrophone effect of a torpedo coming at us." Cobalt altered course towards the torpedo, picked up a strong submarine contact and fired depth charge attacks.

After a third attack, the crew heard "an underwater explosion that could not be clossified as a depth charge," Judges said. The tanker was still blazing

when Cobalt closed her, but the officers thought she looked salvageable. In two hours they had the fires out.

# City Corvette Skipper Fought Subs, Saved Ship

Globe and Mail, March 23, 1944

(Credit: Collection of Ronald Judges, courtesy of Chanin Graham, personal communication with the author) Home on his first long leave in 2½ years, Lt.-Cmdr. Ronald Judges, 33-year-old leading Toronto yacht trophy winner, yesterday discussed details of a navy announcement that his corvette, H.M.C.S. Cobalt, had won a two-day battle with U-boats and saved a burning gasoline tanker and most of its cargo.

At the same time the tall, blond, young corvette skipper declared that Nazi subs are still a major menace, and expressed the opinion that Germany's newest undersees craft are big, long-range ships with new equipment that permits them to lire broadsides of torpedoes at their victims instead of firing bow and stern tubes in alternation.

Visiting relatives on Wendover Rd., Lt.-Cmdr. Judges was accompainled by his wife and 21/2-year-old daughter, Judy, who have been living near the east coast port from which the young captain has been operating part of the time. One of the best known local yachtsmen. Lt.-Cmdr. Judges was a member of the National Yacht Club, and in 1938 joined the R.C.N.V.R. when he believed war was certain. He was posted to active duty in January, 1940, and has seen almost steady action since then. Yesterday he said: "If there has to be war, I'm seeing it the way I'd want to; I get a bigger kick out of a corvette than I ever did out of the little wind ships."

#### Won Awards.

Lt.-Cmdr. Judges was mentioned in despatches, Mate Alfred Bett of Toronto was awarded the George Medal, and C.P.O. J. Wereley of Sorel, Que, was awarded the B.E.M. for their parts in the saving of the oil tanker. According to the R.C.N. announcement, the tanker collided with another ship in what Judges yesterday called "a thick, pea-soup fog." A dozen men lost their lives in the fire which broke out immediately; their bodies were found by Mate Bett later.

Almist simultaneously with the torpedoing of the tanker, the Cobalt's Asdic operator picked up the tone of a torpedo, so the Cobali shifted course and headed toward the torpedo's direction, gambling with chances that it would catch the U-Boat near the surface. Depth charge patterns were laid, and the Asdic picked up the hum of the sub. More charges were dropped, and all through the night the little corvette chased its quarry. After an undersea explosion which Judges said "could not be classified as a depth charge explosion," oil was smelt, leading to the belief the sub was badly wounded, if not sunk. Got Fire Under Control.

Two days later, after further battles with other subs, things looked clear, and the corvette, to quote Judges, "looked over the tanker which we had tried to protect.". Smoke and flames were pouring from the ship, but Mate Bett volunteered to lead a fire party aboard. Scrambling up lines which the escaping crew had left dangling to windward, the boat's crew, wearing asbestos gloves and gas masks as protection against heat, hauled up portable firetighting equipment. Two hours later they had overcome the fire, though they had expected at any minute the ship might go sky-high. The ship and 80 per cent of the cargo of aviation gas was saved and turned over to another ship to be towed into port.

Yesterday Lt.-Cmdr. Judges didn't want to amplify his statement about Hitler's big subs, with their lateralfiring torpedo tubes. He held that it was logical that such development would have occurred, merely judging from the dimensions of the biggest subs, which would be big enough for installation of such tubes. Firing abeam would save subs much manoeuvring and increase their torpedo fire power, he pointed out. Saskatoon Star Phoenix, March 23, 1944. Possibly the longest article about the event and reflecting the most details from the original RCN press release. (Credit: Collection on Ronald Judges, courtesy of Chanin Graham, personal communication with the author.)

.M.C.S. UNICORN SILENT SERVIC HEARTY GREETINGS Ships Complement of And Particularly the WE EXTEND to the 1 League orous Clark and The Corvette Carge STAR-PHOEN mor Tanker Party Saved 9.11.H

# Yachtsman Prefers Corvette To Sailing

TORONTO, March 23-())-Lt.-Cmdr. Ronald Judges, 33, well-known Toronto yachtsman before the war, in an interview last night said he gets "a bigger kick out of a corvette than I ever did out of the little wind ships,"

Home on his first long leave in 2½ years, he told of the experience he had as commander of the corvette H.M.C.S. Cobalt, when the little warship won a two-day battle with Uboats and saved a burning gasoline tanker and most of its cargo.

He said also that German submarines still are a "major menace" and expressed the opinion that Germany's newest undersea craft are big, long-range ships with new equipment that permits them to fire broadsides of torpedoes at their victims instead of firing bow and stern tubes in alternation. Sault Daily Star, March 23, 1944

Ottawa Journal, March 23, 1944



GIVING HIS DAUGHTER A' HAND-Lieut.-Cmdr. Ronald A. Judges, Toronto, now home on leave, is commander of the corvette H.M.C.S. Cobalt, which recently put to rout Nazi subs, thus saving a burning oil tanker. He is with his small daughter, Judy, as he helps her to launch a toy sailboat in the bathtub.

# MEMBER REFERS TO EXPLOITS OF THE COBALT

Reference to a recent naval exploit was made in the Ontario Legislature last Thursday by C. H. Taylor, M.P.P. for Temiskaming, and his statement, given below, is self-explanatory. It follows:

"Mr. Speaker:"

"I wish to rise to a point of privilege before the Orders of the day, to draw to the attention of this House the story of the heroic actions of the crew of H.M.C.S. Corvette, "Cobalt," an account of which appeared in this morning's Globe and Mail. Three members of this crew have won the following distinction: CPO James Wereley, of Sorel, The British Empire Medal; Mate Alfred W. Bett, of Tdronto, The George Medal; Capt. Ronald A. Judges, who has been mentioned in despatches, and who are now home on a well-carned leave.

a well-carned leave. "I consider it a great privilege, and honor, not only as Member for that particular riding, but as mayor of that fair town in whose honor this Corvette was named, to have this privilege.

"While this crew are not citizens of our town nor am I acquainted with any of them, I feel the members of this House will join me in expressing our deep appreciation and gratitude to this heroic crew for their gallant action. In the event some of the members have not heard of this fair town, I would remind them that it was the fifth largest silver camp in the world, and it is today the world's best example of what is known as 'glorified free enterprise.' We are sometimes referred to as a 'ghost town,' and dead, but we refuse to be down." *Temiskaming Speaker, March 30, 1944* 

t