



### **Guiding question:**

How did changes in technology and tactics allow the Allies to win the Battle of the Atlantic?

### **DEVELOPED BY JOE BOYLE**

Grade Level(s):	9-12
Subject(s):	Social Studies
Cemetery Connection:	Cambridge American Cemetery
Fallen Hero Connection:	Seaman First Class Edwin W. Frazier







ROY ROSENZWEIG Center FOR History AND New Media

# **Overview**

Using interactive technology from the American Battle Monuments Commission, maps, and primary and secondary sources, students will determine which technologies and tactics were most important in helping the Allies win the Battle of the Atlantic.

# **Historical Context**

Many historians identify the Battle of the Atlantic as one of the deciding engagements of the European Theater of World War II. The deadly game of cat-and-mouse with German submarines threatened to cut off American men and materiel from the European Allies. Allied success in the North Atlantic was a precondition for any other "I believe the story of the U.S. Coast Guard is often overlooked in the narrative of World War II. The story of Edwin Frazier and the Coast Guard-crewed USS Leopold captures the service's heroism in the Second World War." —Joe Boyle

Boyle teaches at Morrison R. Waite High School in Toledo, Ohio.

Allied success in the European Theater of Operations. The United States Coast Guard had an unsung, and to many, unknown role in the successes in the Battle of the Atlantic. Seaman First Class Edwin Ward Frazier's name appears on the Walls of the Missing at Cambridge American Cemetery, with many others who lost their lives in the Battle of the Atlantic.

# **Objectives**

At the conclusion of this lesson, students will be able to

- Describe the role the U.S. Coast Guard played in the Battle of the Atlantic; and
- Evaluate the importance of new technologies and tactics in the Battle of the Atlantic.

# **Standards Connections**

### **Connections to Common Core**

**CCSS.ELA-Literacy.RH.9-10.3** Determine the central ideas or information of a primary or secondary source; provide an accurate summary of how key events or ideas develop over the course of the text.

**CCSS.ELA-Literacy.RH.11-12.2** Determine the central ideas or information of a primary or secondary source; provide an accurate summary that makes clear the relationships among the key details and ideas.

### **Connections to C3 Framework**

**D2.Geo.11.9-12** Evaluate how economic globalization and the expanding use of scarce resources contribute to conflict and cooperation within and among countries.

**D2.His.1.9-12** Evaluate how historic events and developments were shaped by unique circumstance of time and place as well as broader historical contexts.

### **Documents Used ★** indicates an ABMC source Primary Sources

Franklin D. Roosevelt, Fireside Chat, February 23, 1942 Franklin D. Roosevelt Presidential Library and Museum http://www.fdrlibrary.marist.edu/\_resources/images/tully/6\_03.pdf

Map of the World, 1942 Library of Congress http://lccn.loc.gov/00556407

Photograph, USS *Leopold*, 1943 United States Coast Guard http://www.uscg.mil/history/webcutters/img/Leopold\_1\_300.jpg

### **Secondary Sources**

Cambridge American Cemetery Visitor's Guide American Battle Monuments Commission https://www.abmc.gov/sites/default/files/publications/Cambridge\_Booklet.pdf

Battle of the Atlantic Interactive **\*** American Battle Monuments Commission http://www.abmc.gov/sites/default/files/interactive/interactive\_files/BOTA\_Web/index.html

# **Materials**

- Mission Dossier Packet
- Map of the World, 1942
- Computer with internet capability to access Battle of the Atlantic Interactive
- Projector
- Speakers to listen to the Fireside Chat
- Transcript and audio of Franklin D. Roosevelt's Fireside Chat, February 23, 1942

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# **Lesson Preparation**

- Make one copy of the Mission Dossier packet for each student.
- Set up classroom technology, if necessary.
- Test all online resources before class.

# Procedure

### Activity One (45 minutes)

- Project the *Map of the World, 1942* in the front of the room. Ask students to identify the U.S. and Great Britain on the map. Have them identify the Port of New York, the Port of Liverpool, and the Port of Belfast. If the teacher does not have projection capabilities, use the map in the Mission Dossier workbook.
  - Ask the students to identify what they believe is the shortest, safest route between New York and the British ports.
  - Ask the students: What would alter the route you chose? Are there things that would make you want to go closer to, or further away from, the islands and landmasses nearby?
  - Ask the students: In the grand scheme of a war in Europe, how important do you think moving men and equipment to battle would be?
  - *Teacher Tip*: Push students to understand that without the men or equipment, it would be impossible to carry out any battles.
- Go to the *Battle of the Atlantic Interactive* and watch the first clip that sets up the major navies in World War II. Have students individually, or in groups, use this resource to complete the page on the seven major navies in the Mission Dossier.
  - Discuss their evaluations: Which navy was in the best shape to wage the Battle of the Atlantic? Which navy was in the worst shape to wage war? Where did the U.S. fall in this ranking? What about Germany?
- Have students read or listen to President Franklin D. Roosevelt's Fireside Chat from February 23, 1942 and answer the analysis questions in small groups or as a whole class.

### Activity Two (45 minutes)

- Recap the previous day's activities: Which navies were at an advantage in the North Atlantic in 1941-1942? Which were at a disadvantage? Why was it so important to maintain control of the North Atlantic? What was Roosevelt's message to the American people about how to take the battle to the enemy?
- Introduce today's topic: The technology and tactics of the Battle of the Atlantic.

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- Go to the *Battle of the Atlantic Interactive*. Click on "3 Sept 1939 9 April 1940" and watch introductory video.
  - Have students use the "Briefing: 3 Sept 1939 9 April 1940" pop up window after the video. The selection box on the right side of the pop up window can be scrolled up and down to find the following topics. Students will complete a chart in the Mission Dossier on each identified technology, tactic, or organization that shaped the Battle of the Atlantic.
  - Ask students to synthesize this information using the discussion questions in the Mission Dossier.
  - Watch the introductory videos in the *Battle of the Atlantic Interactive* for 7 Dec 41 31 July 42, 1 Aug 42 21 May 43, and 22 May 43 31 Dec 1943. After watching these videos, close out of the dialogue box and look at the map in the background with your class. Ask if they notice a trend in what is represented on the map.
  - *Teacher Tip*: You are trying to elicit the idea that Allied shipping losses peak in the middle period, and German U-boat losses increase in the last period.

### **Activity Three (45 minutes)**

- Introduce the day's lesson: *Today, we will learn what a day in the life of a typical Coast Guardsman like Edwin Frazier was like on a destroyer escort.* Project a photograph of an Edsall-class destroyer escort, ask students to describe the vessel. Draw their attention to the size of the ship, the armament of the ship, the height of the ship.
- Have students open the Mission Dossier to the pages of information about the USS *Leopold*. Ask them to breeze through the page titled: *Leopold*: Specifications and see if anything draws their attention. Try to find a size comparison between the Leopold and your hallway, your school, width of your classroom, etc. Draw their attention to the fact that the Leopold was manned by an entirely Coast Guard crew. Ask them what they think living quarters would have been like for junior enlisted men like Frazier. Explain that the Coast Guard served vital roles as guardians of the East Coast ports, and as guardians of the convoys.
- Instruct students to read excerpts from the reports of the sinking of the *Leopold*, then answer questions about the disaster in the Dossier.
- Lead a discussion on the sinking of the *Leopold*. Prompts can include:
  - <sup>o</sup> What do you think could have been done differently to save a ship like the Leopold.
  - Looking at the date of the sinking of the Leopold, and the dates we looked at yesterday, what do these indicate about the ebb and flow of the Battle of the Atlantic?
  - At age 18, do you think you could have served as Frazier and the other young men of the Leopold did?

- Lead a discussion on the cost of war. Prompts can include:
  - When men died on the beaches at Normandy, it was clear to all that their deaths had purpose and meaning, and the American public lauded them as heroes. Were the deaths of the men in the convoys worth the price paid?

### Assessment

- Assign the final piece of the lesson from the Mission Dossier.
- The Writing Assessment Rubric can be used to score the essay.

### **Methods for Extension**

- Students with more interest in the role of the United States Coast Guard may research their role in protecting the homeland, which included Auxiliary patrols and beach patrols. They can also research the incredible, and obscure, role of the Coast Guard in the Greenland Patrol and weather patrols, which helped ensure the success of Allied operations in Europe.
- Much of this lesson could be used as homework with a more advanced group of students, who could then compare and contrast the Coast Guard's role in World War II to its role in the Global War on Terrorism.
- The American Battle Monuments Commission maintains U.S. military cemeteries overseas. These cemeteries are permanent memorials to the fallen, but it is important that students know the stories of those who rest here. To learn more about the stories of some of the men and women who made the ultimate sacrifice, visit www.abmceducation.org/ understandingsacrifice/abmc-sites.

# **Adaptations**

- Teachers can adapt the project to younger learners by changing the focus of the last activity to a shorter essay. It could also be adapted to English Language Learners in a similar way. Younger learners could also do a smaller project comparing the roles of each of the uniformed services of the United States in less detail.
- Students can explore Roosevelt's Fireside Chat as an audio source. This might be a particularly good starting point for younger students or English language learners since it automatically gives the ability to both read and hear the primary source text.
- Teachers can group students in several ways. One grouping strategy would be to have groups of heterogeneous ability work their way through the entire project. Another grouping strategy could assign each of the three major parts of the project to three heterogeneous groups, who could then teach it back to the other two groups.

### **Mission Dossier**



### USS LEOPOLD (*DE-319*) launching, at Orange, Texas June 12, 1943

U.S. Coast Guard (NH-83204) http://www.uscg.mil/history/webcutters/leopold.asp

# The Battle of the Atlantic

### Envisioning the North Atlantic



### North Atlantic Ocean, National Park Service

http://www.nps.gov/nr/twhp/wwwlps/lessons/116liberty\_victory\_ships/116images/116map2bh.gif

- 1. Identify the United States with an "X"
- 2. Identify Great Britain with a "Y"
- 3. Place a dot near the Port of New York
- 4. Place a dot near the Port of Belfast
- 5. Place a dot near the Port of Liverpool
- 6. Draw the route you would choose to get from New York to the British Isles.

Consider: Would you want to stay closer to land?

### **Naval Strengths Assessments**

	Canadian	German	British	American
Size of fleet?				
Role of Naval forces?				
What might they have done differently for more success?				

# **Naval Strength Assessment**

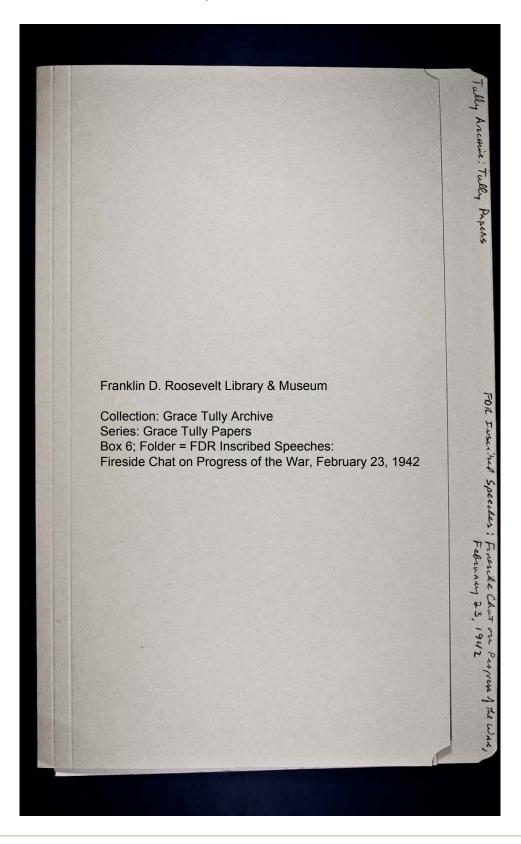
### **Discussion Questions**

Which navy do you believe was in the best shape to wage the Battle of the Atlantic?

Which navy was in the worst shape to wage war? Where did the U.S. fall in this ranking?

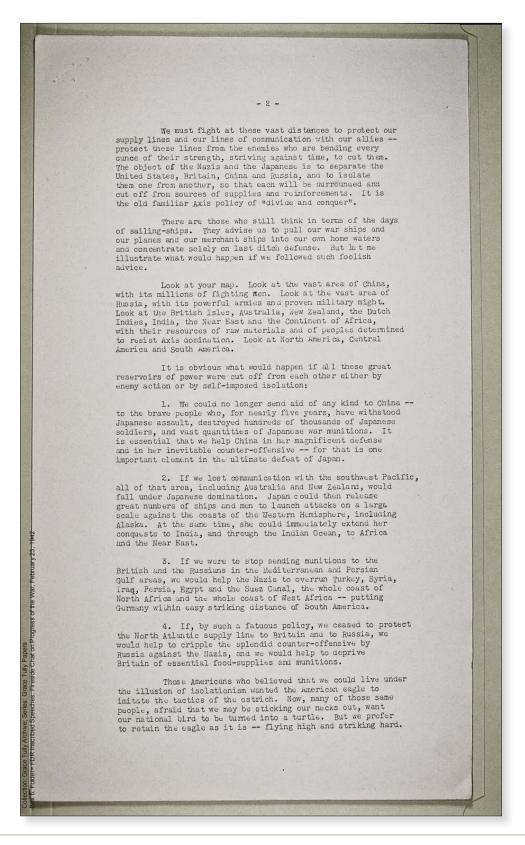
What about Germany?

Franklin D. Roosevelt Presidential Library and Museum

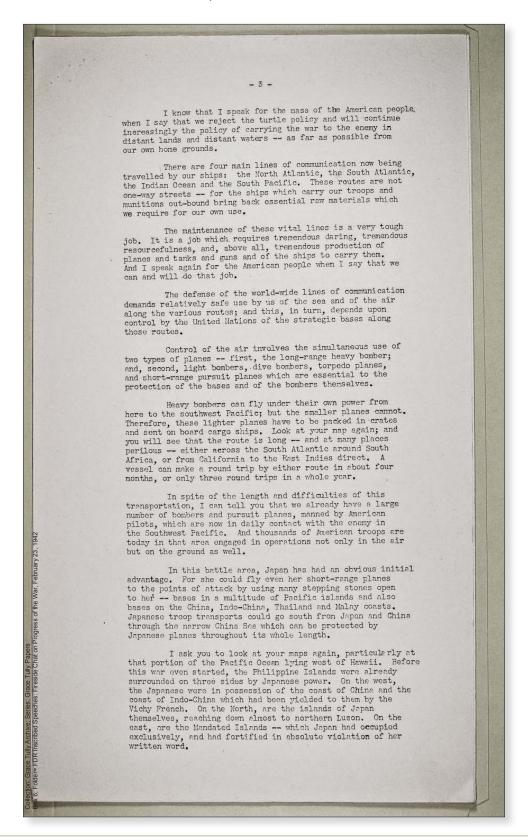


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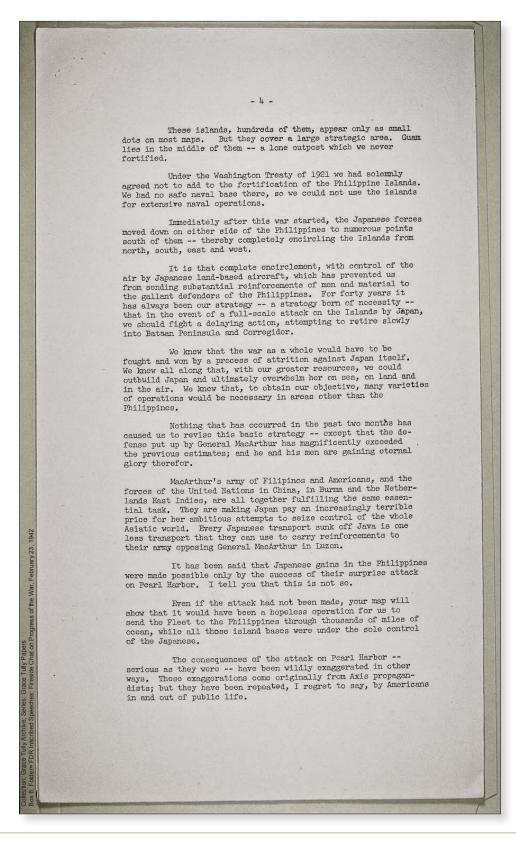
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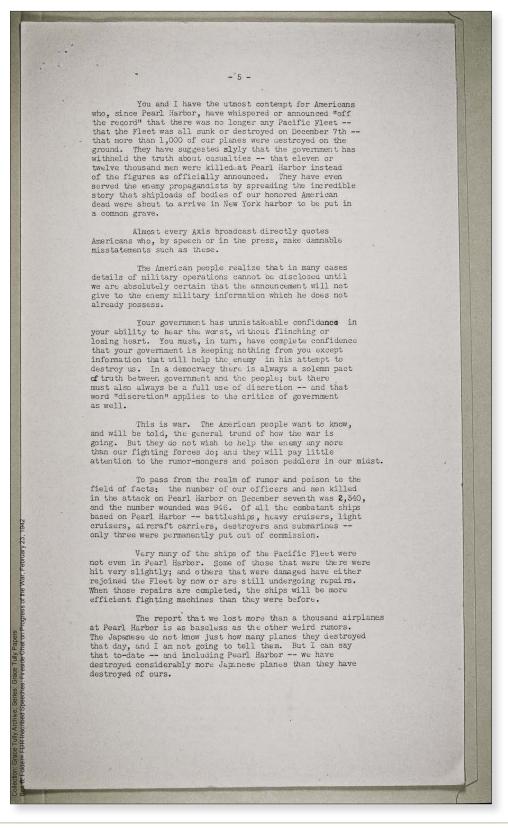
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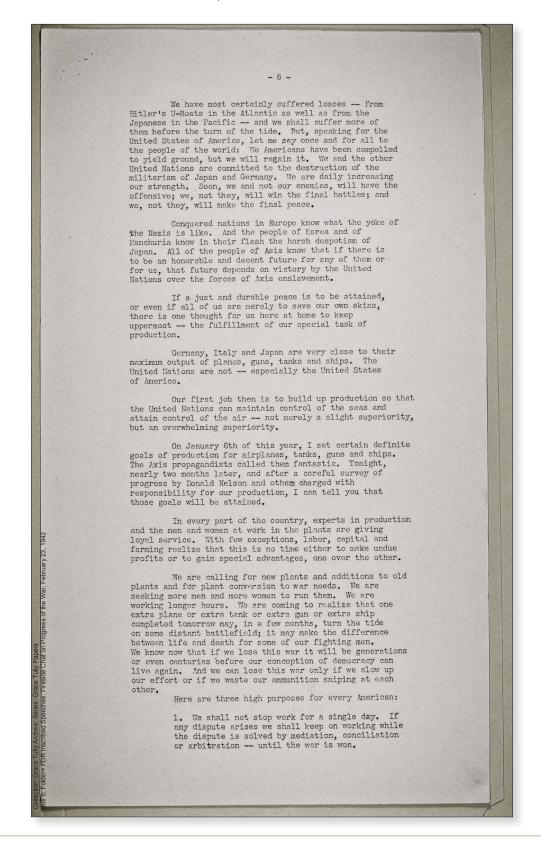
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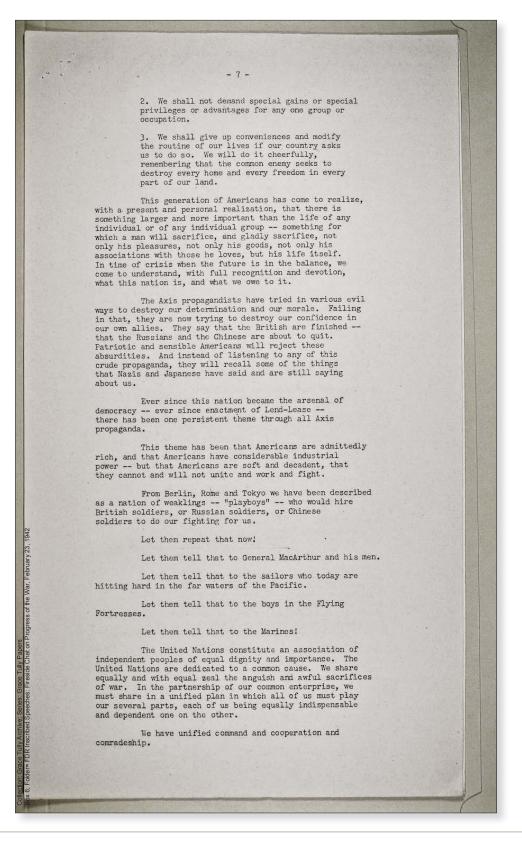
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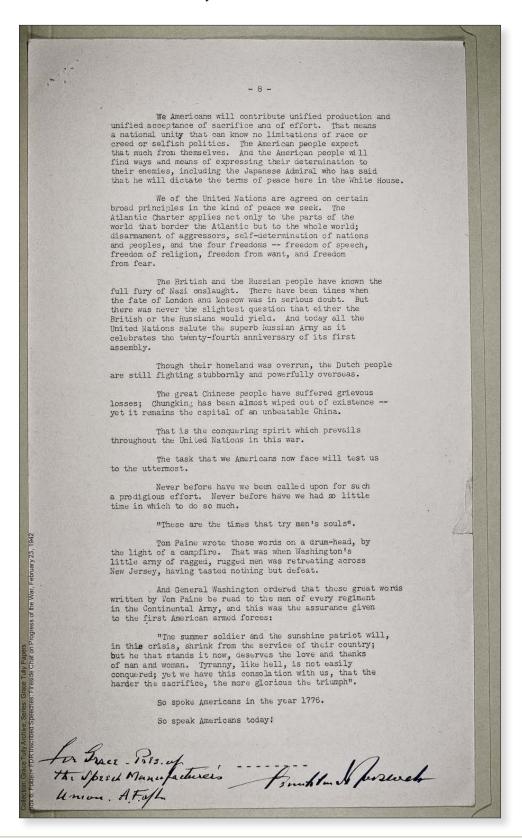
Franklin D. Roosevelt Presidential Library and Museum



Franklin D. Roosevelt Presidential Library and Museum



Franklin D. Roosevelt Presidential Library and Museum



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# Discussion Prompts for Franklin D. Roosevelt's Fireside Chat, February 23, 1942

1. Find and underline two pieces of evidence that show that FDR considered the North Atlantic one of the most critical battlefields in the world.

2. What does FDR identify as the three major goals toward which every American should strive?

3. How does FDR use the symbolism of Washington's Birthday in this speech?

4. How does FDR say that the role of oceans has changed for Americans?

5. What does FDR say would happen if we pulled our naval forces back to American borders for a "last-ditch defense?"

### **Technology and Tactics of the Battle of the Atlantic**

	Who?	How did it work?	Who did it benefit?
"Fido"			
"Wolf Pack"			
Won Fack			
Acoustic torpedo			
Air coverage			
Anti-Submarine			
Aircraft			
ASDIC			
ASV 10-cm			

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### **Technology and Tactics of the Battle of the Atlantic (continued)**

	Who?	How did it work?	Who did it benefit?
Coast Guard Auxiliary			
Convoy System			
Destroyer Escorts			
Escort Carrier			
HF/DF (High Frequency Direction Finding)			
Magnetic Mines			
Milch Cows			

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# **Technology and Tactics of the Battle of the Atlantic (continued)**

	Who?	How did it work?	Who did it benefit?
Snorkel Devices			
US Coast Guard			

### Technology and Tactics of the Battle of the Atlantic Discussion Questions

Which side do you think had the technological advantage?

Which side do you think had the tactical advantage?

What do you think each side should have focused on MORE to either change the outcome of the battle, or speed up the outcome of the battle?

### Fact Sheet: Destroyer Escorts

Destroyer Escorts (DE's) were an entirely new class of naval ship unique to World War II, and in particular, unique to the Battle of the Atlantic.

In 1939, the U.S. Navy recognized the need for a ship that would be easy to build, small, light, and just a little quicker than merchant ships to serve as the sheepdogs protecting flocks of cargo ships resupplying U.S. forces in a potential European war.

The building orders were not issued until the beginning of American involvement in World War II in late 1941; hence, the first ships did not get delivered until January 1943.

But as soon as the DE's were introduced, they changed the balance of power in the North Atlantic. Using sonar, radar, and high frequency direction finding gear, the DE's mission were to seek out and destroy German submarines.

Throughout the war, 563 destroyer escorts were built for the U.S. Navy and U.S. Coast Guard. Eighty-five of these first models of DE's were the *Edsall*- class. All of the destroyers in this class were named after U.S. Navy heroes already killed earlier in the war.

*Edsall*-class destroyers were 306 feet long, and about 36 feet wide at their widest spot. They were designed to carry a crew of 15 officers and 201 enlisted men. The *Edsalls* could travel at a top speed of 24 miles per hour. They were armed with three 3-inch guns and one 40mm Bofors. For short-range targets, they carried a 20mm Oerlikon cannon. But their most important weapons were their anti-submarine devices, which included two depth charge tracks, eight depth charge projectors, and one hedgehog.

### To learn more, go to:

http://destroyerhistory.org/de/edsallclass/

http://www.uscg.mil/history/webcutters/leopold.asp

# **Fact Sheet: United States Coast Guard**

During peacetime, the U.S. Coast Guard is a multi-mission maritime force, with jobs including fisheries maintenance, upkeep of aids to navigation, border security, and asset protection. During times of war, however, the Coast Guard is frequently assigned to combat and support roles under the U.S. Navy in addition to its homeland defense responsibilities.

In the Battle of the Atlantic, both the civil and military missions of the Coast Guard were critical. Before the United States even entered World War II, Coast Guard cutters were deployed to the North Atlantic as part of the "Greenland Patrol," which not only defended that strategic island, but also provided weather information to Allied forces in Northern Europe throughout the war.

Back home, the U.S. Coast Guard Auxiliary, a non-military, volunteer organization, took an active role on the Atlantic Coast. "They brought in survivors from sub-scuttled ships. They patrolled the waterfronts. They went off-shore in small boats in hurricane weather," said an official Auxiliary history.

The regular Coast Guard and reserve took on critical military functions along the Atlantic, Pacific, and Gulf coasts. Port security took on increased importance, and Coast Guard ships and personnel protected ships and harbors. Coast Guardsmen – many times horse-mounted – patrolled thousands of miles of beaches throughout the nation to spot saboteurs, spies, and subs.

Some of the most notable U.S. Coast Guard jobs, however, took place hundreds and thousands of miles away from the actual coast of the United States. Thousands of Coast Guardsmen were selected to be officers and crew aboard Navy vessels in every theater of the war. Among these were the Coast Guard-crewed destroyer escorts of Escort Division 22. Dozens of Coast Guard-crewed destroyer escorts protected important convoys of men and materiel across the Atlantic – and, it can be argued, helped turn the tide of the war.

# Fact Sheet: USS Leopold

**Namesake:** ENS Robert Lawrence Leopold, USN. Leopold was a 25-year-old officer aboard USS *Arizona* on December 7, 1941. He was killed in action, and his body was never recovered.

Displacement: 1.253 tons

Length: 306 feet

Beam (Width at widest point): 36 feet, 7 inches

Draft (how deep below the water): 10 feet, 5 inches

**Power**: Two-shaft Fairbanks Morse diesel engines

Range: 10,800 nautical miles

Top speed: 21 knots (24 miles per hour)

**Armament**: Three 3-inch guns; Two 40mm guns; Eight 20mm guns; Three 21-inch torpedo tubes; Two depth charge tracks; Eight depth charge projectors; One hedgehog.

Launched: 12 June 1943

**Commissioned**: 18 October 1943 in Orange, Texas.

First mission: 24 December 1943, escorted convoy to the Mediterranean.

**Second mission**: 1 March 1944, leaves Maine with the entirely-Coast Guard crewed Escort Division 22 to escort a 27 merchant ship convoy to Great Britain. On 9 March, is sunk by a German submarine.

### Source Analysis: The Sinking of the USS Leopold

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Authority: E.O. 13526 By: NDC NARA Date: Dec 31, 2012

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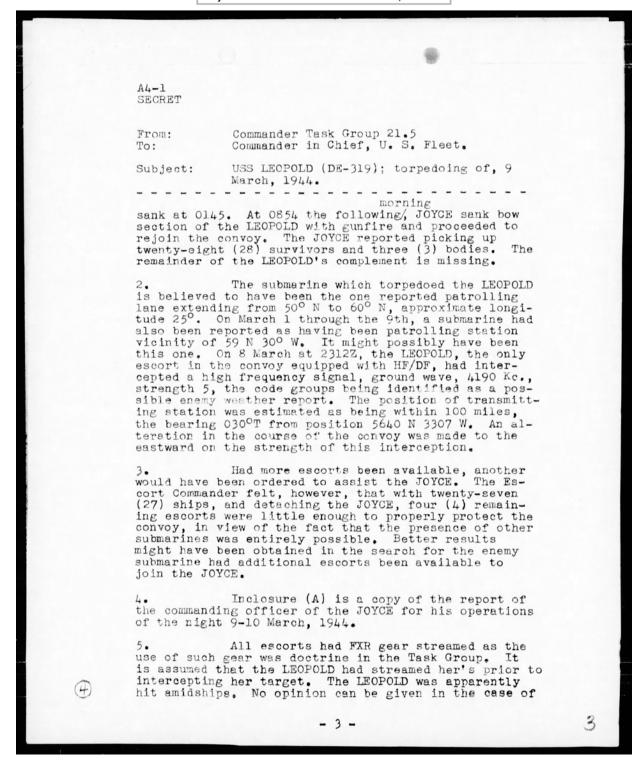
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	A4-1 SECRET				
	From: To:	Commander Task Gr Commander in Chie	oup 21.5 f, U. S. Fleet.		
	Subject:	USS LEOPOLD (DE-3 1944.	19); torpedoing	of, 9 March,	
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A4-1 SECRET Commander Task Group 21.5 Commander in Chief, U. S. Fleet. From: To: USS LEOPOLD (DE-319); torpedoing of, 9 Subject: March, 1944. - the LEOPOLD, whether or not the FXR gear was working. From trials on the POOLE, the performance of the FXR gear is erratic at all speeds and subject to rapid materiel failure at eighteen (18) knots or above. Unfortunately, no data is available, due to the fact that all officers on the LEOPOLD are missing, as to just what tactics were used by the LEOPOLD during the attack. When last seen, the LEOPOLD was apparently placing herself between the submarine and the convey on a collision course at full submarine and the convoy on a collision course at full speed. W. W. KENNER Captain, U.S.C.G. Copies to: Comdeslant CinCLant 3 1336 (5) - 4 -

Document credit: Kenner, W.W. USS LEOPOLD (DE-319); torpedoing of, 9 March, 1944. April 1944. Accessed January 5, 2015. http://www.fold3.com

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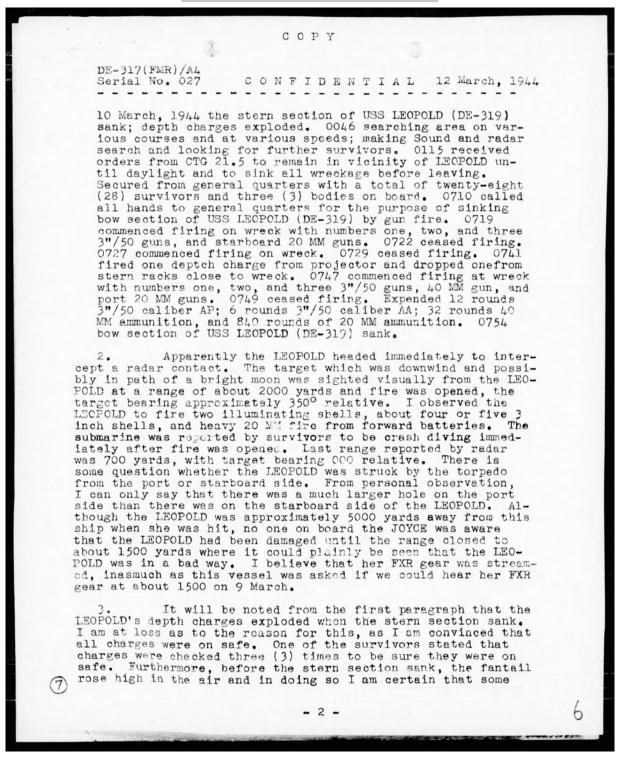
	СОРҮ	
	USS JOYCE (DE-317) c/o Fleet Post Office New York, N.Y.	
	DE-317(FMR)/A4 Serial No. 027 1.2 March, 1944	
	CONFIDENTIAL	
	From: The Commanding Officer. To: The Commander, Escort Division Twenty-two.	
	Subject: USS LEOPOLD (DE-319); torpedoing of.	
	1. On the night of 9 March, 1944, this vessel was in night station 3 of convoy escorts under your command. The following is the account of the operations of this ship during the night; all times, zone plus one:	
6	At 1950, called all hands to general quarters stations; USS LEOPOLD (DE-319) on station 5 investigating radar target on starboard side of convoy, bearing 190° T, 4 miles from USS LEOPOLD (DE-319). 1957 ordered by CTG 21.5 to assist USS LEOPOLD (DE-319); various courses; speed 21 knots, proceeding as ordered. 1958 USS LEOPOLD (DE-319) commenced firing on radar target she illuminated with star shell and opened fire to port with all forward guns; after approximat- ely 20 seconds, ceased firing. Target was not visible to us. 2005 took station on port beam of USS LEOPOLD (DE-319), distance approximately 2500 yards; changed speed to 15 knots. 2011 USS LEOPOLD (DE-319) failed to answer TBS or flashing light; investigating, closed range to 1500 yards at various courses and speeds. 2015 observed USS LEOPOLD (DE-319) to be dead in the water, with hole in port side in compart- ments B-1 and B-2 and with her back broken; screws out of water; and crew abandoning ship; commenced searching area for submarine; ordered by CTG 21.5 to use own best judgment. 2028 picked up torpedo on QCT-1. Commenced maneuvering to evade torpedo. 2036 clear of torpedo, recommenced search of area. 2106 completed search of area without making con- tact, proceeding to pick up survivors; USS LEOPOLD (DE-319) now broken in half, bow and stern section separating with the stern section drifting downwind (about 060° T) faster. 2120 stopped to pick up survivors, conducting 360° listen- ing search. 2127 survivors alongside. 2132 picked up torpedo on QCT-1 and sighted torpedo track on port beam; commenced maneuvering to evade torpedo. 2142 clear of torpedo, recommenced search of area. 2212 completed search of area without making contact, proceeding to pick up survivors. 2218 commenced picking up survivors, pro- ceeding on various courses and at various speeds conducting JK listening search while picking up survivors. 0045 on	
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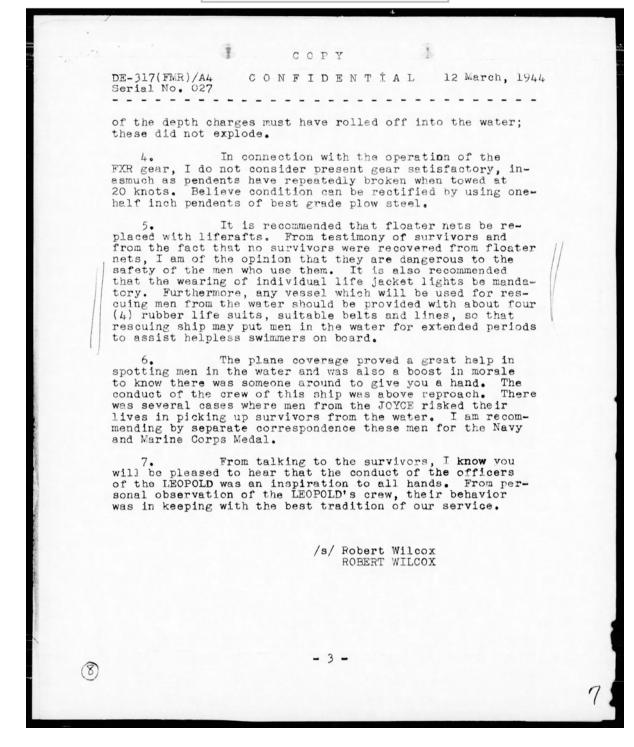
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Document Credit: Wilcox, Robert. USS LEOPOLD, Torpedoing of. April 1944. http://www.fold3.com

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# Source Analysis: The Sinking of the USS Leopold

### **Analysis Questions**

1. How did HF/DF play a role in the sinking of the *Leopold* and the hunt for the sub that sank her?

2. What role did Allied air cover play in the hunt for the German submarine? What role did it play relating to the morale of the sailors in the convoy?

3. FXR gear (Also known as "Foxer") was a noise-making device towed by the American convoy ships to try to decoy torpedoes away from the actual ship itself. What problems did the commander of USS *Joyce* identify with FXR gear at this point in the Battle of the Atlantic?

4. What do you think could have been done to minimize the loss of life from the sinking of the *Leopold*?



### The People behind the Story:

### Seaman First Class Edwin Ward Frazier

Nearly 200 enlisted Coast Guardsmen served aboard the USS *Leopold*. Among them was a man just three weeks shy of his nineteenth birthday, Edwin Ward Frazier. Known to his friends as either "Ward," or "Bud," Frazier was born and raised on the east side of Toledo, Ohio.

Frazier's school career was remarkably unremarkable. School officials rated his family life as a "5" out of 5, and marked him high for flexibility, leadership, and dependability. He played football his freshman and sophomore years – lining up alongside three other boys who would be killed in World War II. Frazier took two industrial arts survey courses at Morrison R. Waite High School, just six blocks from his home.

But in the second semester of his junior year, Frazier left high school. He first went to a National Youth Administration camp in central Ohio, where he learned to operate machinery for two months. A month after returning to Toledo, the 17-year-old Frazier got his parents' permission to join the United States Coast Guard.

Frazier applied for enlistment on July 8, 1942 at the Coast Guard's Toledo buoy station, just across the Maumee River from his neighborhood. He submitted an extensive background check, including questionnaires filled out by the city police department, his neighbors on Valleywood Street, and his grade school and high school principals. Less than two weeks later, Frazier was sent to the Coast Guard Recruiting Office in nearby Detroit, Michigan for physical and mental testing.

The Coast Guard's training program during World War II was much more akin to a skilled trades apprenticeship than what Army and Marine Corps recruits underwent in World War II. Frazier first was assigned to the Coast Guard small boat station in Marblehead, Ohio, about 50 miles from his hometown. After five months of learning the ropes in Marblehead, Frazier served in Buffalo, New York, Miami, Florida, and Norfolk, Virginia before being assigned to Texas to join the crew of the brand-new USS *Leopold* on the date of her commissioning in October 1943.

Frazier – just 18 years old – indeed got to see much of the world from aboard the *Leopold* over the next six months. The ship sailed to Bermuda, Gibraltar, Morocco, and back home to ports up and down the Atlantic seaboard, including New York City. For Frazier, and likely for many of the other men on the ship, it was the furthest he had ever traveled from home.

On March 1, 1944, the *Leopold* sailed for Maine, where it formed up with Escort Division 22 to guide 20 tankers and seven cargo ships to British ports. The *Leopold* was sunk by U-255 on March 9, 1944. Ward Frazier was one of the 171 Coast Guard officers and men lost aboard the ship.

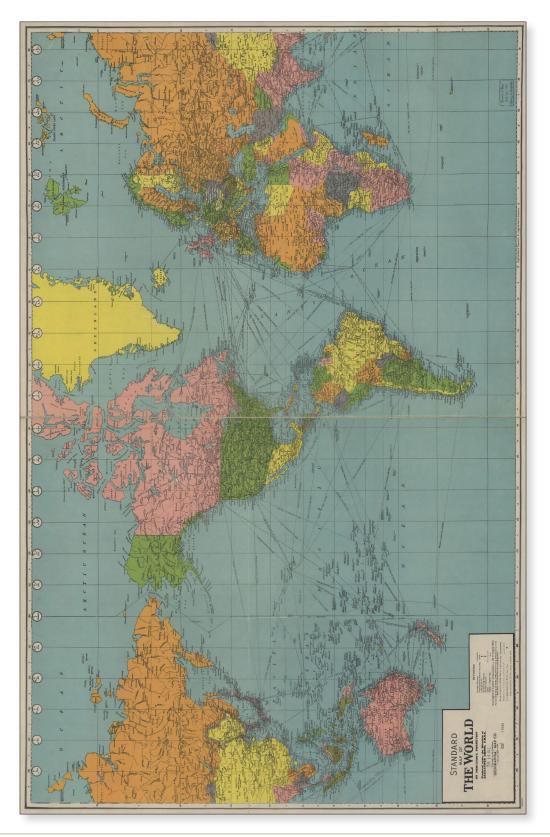
# Writing Assessment Rubric

Prompt: Why was the Battle of the Atlantic the critical battle in winning the European war? Use evidence to support your argument in a short essay of no more than 500 words.

	Advanced	Proficient	Basic	Emerging
Content	Passage addresses all five W's (who, what, when, where and how).	Passage clearly addresses four of the five W's (who, what, when, where and how).	Passage adequately addresses three of the five W's (who, what, when, where and how).	Passage adequately addresses fewer than three of the five W's (who, what, when, where and how).
Historical Thinking	All details and/ or examples presented in the passage are accurate and fully explained.	Almost all details/ examples are accurate and fully explained	Most facts presented are accurate (70%) and fully explained.	There are several factual errors in the passage and/or the examples are not fully explained.
MUGS (Mechanics, Usage, Grammar, Spelling)	No errors in MUGS	Almost no errors in MUGS (better than 90%)	Few errors in MUGS (better than 75%)	Significant issues with MUGS.

# Map of the World, 1942

Library of Congress



# Photograph, USS *Leopold*, 1943

United States Coast Guard

