

HOW SUBMARINES LOCATE ENEMIES FROM THE DEPTHS

Themselves Invisible, They Can See All That is Transpiring on the Surface

DONE BY MEANS OF PERISCOPES

Tubes, Which Are the Only Part of the Craft Showing Out of the Water

The greatest battle at sea in the world's history can't be far off. Germany cannot keep her fleet bottled up much longer.

And when the terrible sea battle comes what will the submarines do? Will the deadly little ships that sail below the surface of the water decide the combat?

The strain of watchful waiting must be terrific to the admiralty of both England and Germany. So nava experts tell us to look for movements by submarines—either the English below-sea boats sneaking in to harbors where the German navy monsters are hiding, or the German submarines boldly going to sea to attack Britain's great warships.

No Defence

There is little or no defence against the submarine. Torpedo nets and booms are useless; armor is important; vigilance of no avail. Even speed cannot save a ship marked for destruction for there is no telling when or in what direction to flee.

At 1,000 yards a torpedo seldom misses its mark. The 200 pounds of gun cotton it carries is sufficient to send the biggest battleship to the bottom in a few seconds. And a submarine prepared to fire a dozen torpedoes, can get within 300 yards of its victim with little probability of detection.

How They Do It

How do the little demons do it? They rise occasionally for light an air like a seal or do they grope their way, blindly, deep below a protecting curtain of water?

Periscopes, a clever adaptation of an old idea, make detection almost impossible. They are L shaped tubes 20 feet long and as many inches in diameter. The foot of the L projects out of the water. In fact, that is all of the submarine which does show above the surface.

Picture in a Mirror

In the periscope is set a lens which casts a picture of the horizon above water into a mirror set at an angle of 45 degrees. The mirror reflects the image cast by the lens down the long tube on to a white screen in the captain's cabin. If you have ever seen the picture cast on the ground glass of a camera you know the kind of image always visible to the officer in charge.

He gives few commands when the enemy is sighted. Every man of his crew is a volunteer and an expert seaman who knows his duty and does it.

Fleet in Sight

A black smudge on the horizon shows the position of the blockading fleet. The commander descends from the conning tower. Quietly he turns to the steersman.

"Divide to 20 feet!"
"Divide to 20 feet, Sir," repeats the man at the wheel and gives the horizontal rudder a flip. The little craft slips under the water as easily as a duck after a frog.

At the command the engineer shuts off the gas engine and the submarine glides along under electric power at perhaps 11 knots an hour. The ventilators close automatically as they dip under the water and make the slip air and, of course, water-tight. The closeness is relieved by compressed air. Enough of it is stored to last 24 hours.

Nearing the Target

Only the periscope shows as the little craft slips through the sea rearing and nearer to its mark. Larger and larger the image of a big battleship grows on the screen.

"Prepare to fire!"
The gunner takes a final survey of his work. In a long tube, really a magnified air gun, rests the torpedo, 17 feet long. Made of bronze it closely resembles a huge cigar except that twin propellers project from the pointed end. A torpedo flies to its mark under its own power developed in a compressed air engine of its own.

Hard to Detect

Now the little terror barely creeps along. Dozens of eyes on the battleship are watching for it. Powerful marine glasses sweep every yard of the sea's surface. But the periscopes do not project more than a foot or two out of water. The color of these little poles are sea color and besides they dip behind every wave of the rolling ocean.

PROPOSED SONG FOR "NEWFOUNDLAND REGIMENT."

Air: "Tramp, Tramp, Tramp."

Don't you hear the war's alarms
From ten million men in arms,
Don't you hear the clash of swords and cannons roar,
Don't you hear the Teuton boast,
That he'll smash the allied host,
And he'll drench the European plains in gore.

Chorus:—
Then up brave boys of Terra Nova,
To the highest heavens let your slogan ring,
Sons of Britain's oldest daughter,
We come o'er the Western water,
And we'll fight for our country and our king.

When Great Britain sent her call
To her scattered children all,
To bravely stand together for the right,
And to stop the foe's advance into Belgium and France
Terra Nova joined her sisters in the fight.

Chorus:—
Then up brave boys, etc., etc.

In the fight the Lion and Bear
And the Beaver will be there,
And the Dog of Newfoundland so true and brave
Firmly in the line he'll stand
When there's fighting on the land,
And you'll hear him when his bark is on the wave.

Chorus:—
Then up brave boys, etc., etc.

Now the Empire's sons assemble,
They will make the tyrant tremble,
From shore to shore the meteor flag's unfurled,
Fighting in a righteous cause,
For God, freedom, and just laws,
See the Britons clasping hands around the world.

Chorus:—
Then up brave boys, etc., etc.

St. John's, Newfoundland,
September 16th, 1914.

M. A. DEVINE.

ist to the Rattle Of the 'Can Brigade'

Last night to the rattle of the sticks in the oil can drums two squads of the Broomstick and Can Brigade took charge of Water and New Gower Sts. As they marched up Water Street, the majority thought that the Volunteers were out on the march and a rush was made for the windows and doors to see the boys in khaki pass by, but when the healthy looking youngsters passed along the onlookers had to wear the smile that won't come off for the boys looked as if they were in earnest and one would pity any German who might be at large.

The usual crowd was at the post office and when they heard the "rolling of the drum" they stopped "killing the Kaiser with their tongues" and went to the street to see the "soldiers' ass by."

Each spectator had to admit that the Broomstick and Can Brigade are to be reckoned with in the future.

WEDDING BELLS

Haley—Strickland
Miss Helen Hayley, of Bonavista, and Mr. H. Strickland, formerly of St. John's, were united in matrimony at Lower St. Parsonage at 9 p.m. Monday by the Rev. Mr. Hemmison.

The bride, who was very attractively gowned, was attended by Miss Edna M. Hill and Miss Lizzie Duffett, while Mr. F. Haynes gave the bride away.

The groom was supported by Mr. I. Strickland. The Mail extends congratulations.

ADVERTISE IN THE MAIL AND ADVOCATE

Do you suppose you could see two green fence posts sticking only a foot or two out of a huge field of waving and rolling green grain 1,000 feet away?

Now the submersible is in good range of its target and points directly at the battleship as if to ram it amidships.

"Fire!"
Torpedo Fired

At the word the cap at the muzzle of the tube flies up. There is a muffled thud as the plunger gives the torpedo a smart push. As it passes out a catch depresses the throttle of the torpedo's own engine and the propellers are whirring as it enters the water. A gyroscope steadies the rudder and the torpedo holds its course in spite of sea swirls and currents.

The submarine crew braces for a shock. In a moment it comes. The little craft rolls and plunges as if in a whirlpool. The torpedo, exploding, has caused a mighty convulsion in the water.

Presently the quaking subsides and the periscope shows a listing, sinking coffin of steel where there had been a proud battleship!

LOTS OF FISH AT HOLYROOD

Only Drawback is a Scarcity of Bait—Activity on Every Hand

Holyrood, Sept. 15.—This thriving settlement is looking its best just now. The industrious farmer is gathering in their abundant harvest of potatoes, cabbage, turnips, hay oats, etc., etc.

The fishermen are still plying their daily avocation catching fish which latterly have appeared plentifully on the grounds, the fish is of superior quality, large, but unfortunately bait is very very scarce. This is regrettable. It looks as if the squid have forsaken its usual haunts of for mer years when, besides supplying home needs, hundreds of bankers would find no trouble in securing this valuable bait fish.

All around there is great indications of activity as numerous new homes are being erected especially in this connection is the handsome and costly cottage now high completed by Mr. Dunphy, the popular village wheelwright.

Chiefly owing to want of accommodation for his congregation the Rev. Father Finn is compelled to enlarge the church by adding a wing or an annex of about 12 feet in width, which when completed, will give an additional seating capacity of 25 new pews.

Contractor and Builder, Mr. M. Farady and aids, are rushing matters, and hope in a month from now to have the new wing completed. After which Rev. Fr. Finn contemplates the erection of another tower in keeping with the one already erected on left side of edifice.

Your esteemed fellow townsman D. Galway, Esq., (Merchant Tailor) and his bride arrived here by Monday night's train and drove to O'Rourke's Hotel, which was decorated with bunting on the occasion.

P. H. W.

Responsible Command

The many friends of Captain John Williams, late Chief Officer of the Red Cross liner Stephano, will be pleased to learn that promotions have been rapid to him since he joined the Bowring fleet on the other side of the water.

He is now captain of the big oil tanker Rosalind and since the outbreak of the war he has made three trips to the grand fleet with oil, supplying the submarines and torpedo boats.

S.S. Coban, 2 days from Sydney, has arrived to the R. N. Co. with coal.

S.S. Parthenia left Botwood to-day for Browhead for orders with 5,500 tons paper and pulp.

WAR NEWS STILL GOOD

French War Office Sends To St. Pierre Encouraging News of Progress of Allies

(Official St. Pierre Bulletin)

Paris, Sept. 16.—On the left wing yesterday the Germans resisted at north of Laisne on a line from the Eagle Forest to De Gronne. In the centre their line of resistance was transferred to the North of Rheims and at Camp Dechalons in order to permit communication with the town of Vienna at the west of the Argonne. The enemy occupying southern part of the Argonne accentuated their movement of retreat between the Argonne and the Meuse holding late last night a front from Varennes to Consenveye.

Are Retreating

On our right the Germans are retreating on Etrain, Metz, Delme and Chateau Salins.

In the Vosges and Alsaces the situation is unchanged.

The Belgian army continues to harass the enemy in the vicinity of Anvers and are in close touch with the enemy.

On the front from heights of Laisne to the west up to north of Rheims and centre our advance continues between the Argonne and the Meuse.

False Report

It is absolutely false that the army of the Kron Prinz besieged and bombarded Verdun as this town has not been attacked at all except for the fort of Troyon which is past the defence of the heights of the Meuse and as been violently attacked but is well defended and since yesterday is in fear of the enemy.

On the right there is nothing of importance to tell.

In Italy, the concentrations of the Caribaldians at Lioni is now at an end. They form four battalions and are commanded by General Peppino Caribaldi. This movement has been the cause of imposing Franco-Italian demonstrations.

Czar's Congratulations

Herewith is a message from the Czar to President Poincaré: "The news of French victories fill me with joy and I transmit to you my most cordial congratulations for the valor of your troops and the talent of their chiefs in this great action and I have such pleasure in expressing the admiration with which I am inspired."

The President replied: "I thank our Majesty for your congratulations which will profoundly touch France and her army. The big victory won by Russian troops in Galicia has rejoiced all our French hearts. The Government of the Republic and we have not slightest doubt that it will be followed by other brilliant successes in Germany."

Weird and Wonderful Film at the Nickel

The Judgment of Buddha was presented at the Nickel Theatre last evening to large audiences. It is a strange story and was very cleverly acted.

It showed the story of the Sultan's life. His favorite baby daughter is stolen when an infant. When eleven years old she is a pretty dancer and the Sultan is charmed by her. The villain who was responsible for her being kidnapped advises the Sultan to marry her, and the wedding takes place.

A burlesque on her shoulder arouses the Sultan's suspicions, and after he learns that she is his daughter. They are imprisoned but are afterwards released and given back their power but because they fail to rebuild the temple in ten days they are turned into stone. It is a weird story from start to finish.

"The Power of the Sea" is a beautiful drama in which Rosemary Thelby plays the part of the heroine. Those who wish to enjoy a good hearty laugh should see John Bunny as an actress. He is simply immense. Flora Finch plays splendidly with him.

Tonight the programme will be repeated, and judging from the success of last evening it should be largely attended. Mr. De Witt C. Cairns will sing a new song.

Patriotic Fund

Already acknowledged	\$35,615.50
A Friend	50.00
J. T. Croucher, Esq.	20.00
Andrew Abbott, Esq.	5.00
Peter Cassidy, Esq.	2.00
Wm. Roberts, Esq.	2.00
Henry Morris, Esq.	10.00
F. Lewis, Esq.	5.00
Thomas Marks, Esq.	2.00
Hebrew Benevolent Society of Newfoundland, per E. G. Gittleton, Treas.	150.00
	\$35,861.50

J. S. MUNN, Hon. Treas.



"Made In England."

FIRST SHOWING OF New Blouses

for Early FALL WEAR

ENGLISH MANUFACTURERS have now an opportunity of showing they can produce BLOUSES that are equal in every respect to those of GERMAN and AUSTRIAN Manufacture.

These we are showing to-day are both stylish and practical, and embody all the best features of the Continental models.

Our illustrations give an idea of the Styles.

Ayre & Sons
LIMITED

LIVE NEWS NOTES FROM THE NORTH

Joe Batt's Arm, Sept. 13.—From North, South, East and West comes the glad tidings of the prosperity that the F.F.U. brings to all just men who are enrolled within its ranks.

We have been visited with much stormy weather during the past fortnight, but in spite of this our brave fishermen have pushed ahead and done fair with fish. Squid has not yet put in its appearance and we fear our fall fishery will this year pass out of existence without having the pleasure of using the squid as bait. Herring bait is now the only thing that is available.

With eagerness we wait and watch for The Mail and Advocate as we entirely guide and guard ourselves in every and all respects by the wise counsel and advice contained therein.

Tomorrow we expect the arrival of schooners bringing us provisions and to take our fish at prices which none but Union men can secure. How vain the man which pitted the Union man because he the Union man would not sell his fish and get no provisions so now you piteous man I would advise you not to again lose all your sympathy and pity but try to convey in future to more sympathetic purpose.

Some time previous it looked as if we would lose our good doctor, viz. W. E. MacLean, as we understand he had strong ideas of removing from here to Horwoods; but as soon as it became known the residents of Joe Batt's Arm and Barr'd Islands got quickly to work and devised means so favorable to him that he again decided to labor amongst us as a skillful doctor and gentleman which titles he most certainly deserves.

Sept. 9th was the stormiest day for the season, as we had a gale from the eastward with thunder, lightning and rain.

Every evening crowds are seen around the telegraph office anxious and eagerly waiting for war news. When encouraging news is being read smiles may be seen on every face. All honor to our volunteers.

LOVER OF RIGHT

Schooners Home

The Deputy Minister of Customs had word that the following schooners had returned to Westville from the Labrador: Columbine, 550 qtls.; Vera B., 700 qtls.; Bessie H., 300; Cold Storage, 100.

At Pleasantville With Volunteers

Bright News Notes of the Camp Where our Soldiers Are Training

Yesterday was a very cold day for the lads under canvas. The time was spent by the volunteers in drilling. In the morning they were formed up on the parade ground and in command of Adj. Rendell, the regiment was put physical drill and manual exercises and company marching until dinner hour.

In the afternoon they went for a long tramp and returned to the grounds about 5 o'clock.

Quite a number of visitors visited the camp and were shown through the grounds.

A few accidents happen every day at the camp. Yesterday a young volunteer, James Irving, of the St. John's Meat Market, received a nasty blow on the forehead with a rifle from one of his comrades. It was purely accidental, as it happened in the tent when the lads were playing about. He was brought to the hospital tent and the wound dressed and was alright again a few hours later.

Another named Noseworthy also had his leg wrenched while playing football, and will be laid up for a day or two.

The camp is in a healthy condition. All the lads are enjoying good health. About thirty more volunteers joined camp yesterday making the number now 515 under canvas.

DIFFERENT TO-DAY

New York Sun:—"In the present struggle the Government of a united and determined people is being moved to the port of Bordeaux when no French army has been destroyed or surrounded and captured and when the British and French navies command the sea with all that the advantage imports; when France has the valuable and zealous cooperation of allies both in the east and the west, and when her regular army, despite its retreats and losses, is unbroken and maintains its fine morale. France amazed the world in 1870 by her recuperative powers and by the fight she made when all seemed to be lost save honor. Strategically, politically and economically her state is very different to-day."

DROVE THE ENEMY INTO FISH POND

Dramatic Incident in One of the Recent Battles in France

London, Sept. 12.—The Morning Post correspondent at Nantes, department of Seine-et-Oise, France, writing under date of Thursday, says: "Never since General Joffre began his magnificent retreat from Belgium has the allies position looked so promising. At the same time we should be cautious in proclaiming the good news."

Want Rest

"The Germans want repose. The German soldiers I have seen are dead beat and their case is general. It is therefore possible that the German commanders will, if they can, remain content to hold the allies at bay for a time."

"Prisoners confirm reports that two Austrian army corps are operating with the Germans in France. If so, they must be upon the lines of communication, for they have not been in action since no Austrian prisoners have been taken."

Dramatic Incident

"A dramatic incident in the recent fighting may be mentioned the grim work at the ancient fish ponds near Ermenonville. These ponds are shut in by high trees. Driving the enemy through the woods, a Scotch regiment hustled its forces right into the fish pond, the Scotchmen jumping in after the Germans up to their middle to finish them in the water, which was packed with their bodies."

Northern Schooners From the Labrador

The following schooners were reported at the Board of Trade yesterday from the Labrador:
At Herring Neck—Narilla, 800; St. Helena, 500; Vancouver, 500.
At Westville—Lady Andrews, 230; Secret, 200.

FOR SALE

A Gordon Setter, thoroughbred, nine months old. Apply at this office.—sep15,31