



Major Events in Morse Code History

Bob Carter

WR7Q



Ham Radio 19 years

8 Band DXCC

WAZ CW

324 confirmed entities

7 more for Honor Roll

Station info on QRZ

Member UDXA – currently VP

CW Academy Administrator

CWA Advisor



Why this presentation...



Early Cross Country Communications



Pony Express
P-Mail





Ten days

St Joseph MO to Sacramento CA

1966 miles

Apr 1860 – Oct 1861

18 months

Horses

5 to 20 miles

Rider

75 to 100 miles



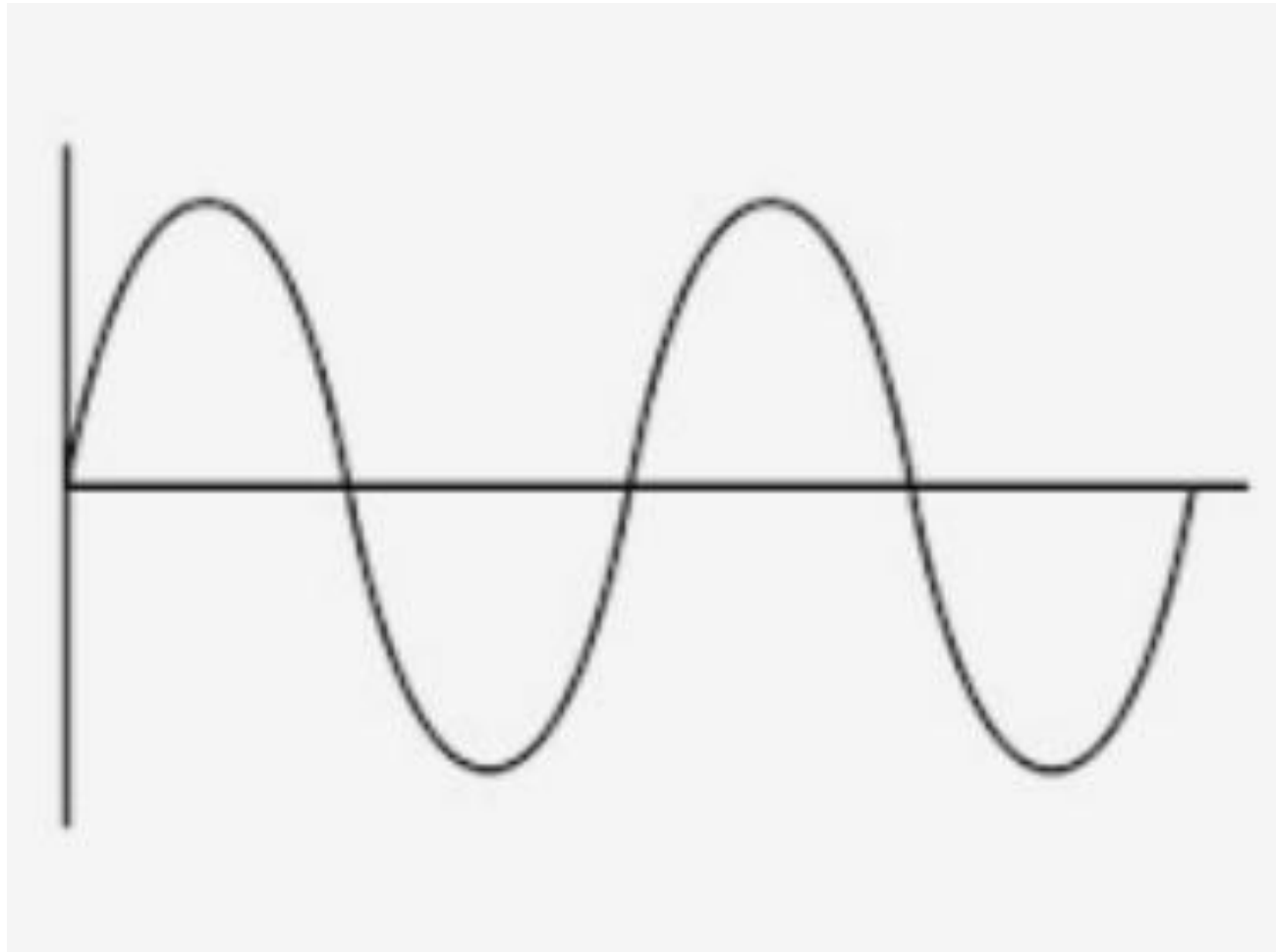
Electronic Communications



Morse Code - CW

Continuous Wave – CW

Sine Wave





First Military Communications



Civil War – Telegraph

T-Mail

During the war, 15,000 miles of telegraph cable were laid purely for military purposes







Lincoln practically lived at the telegraph office
reading dispatches and sending messages

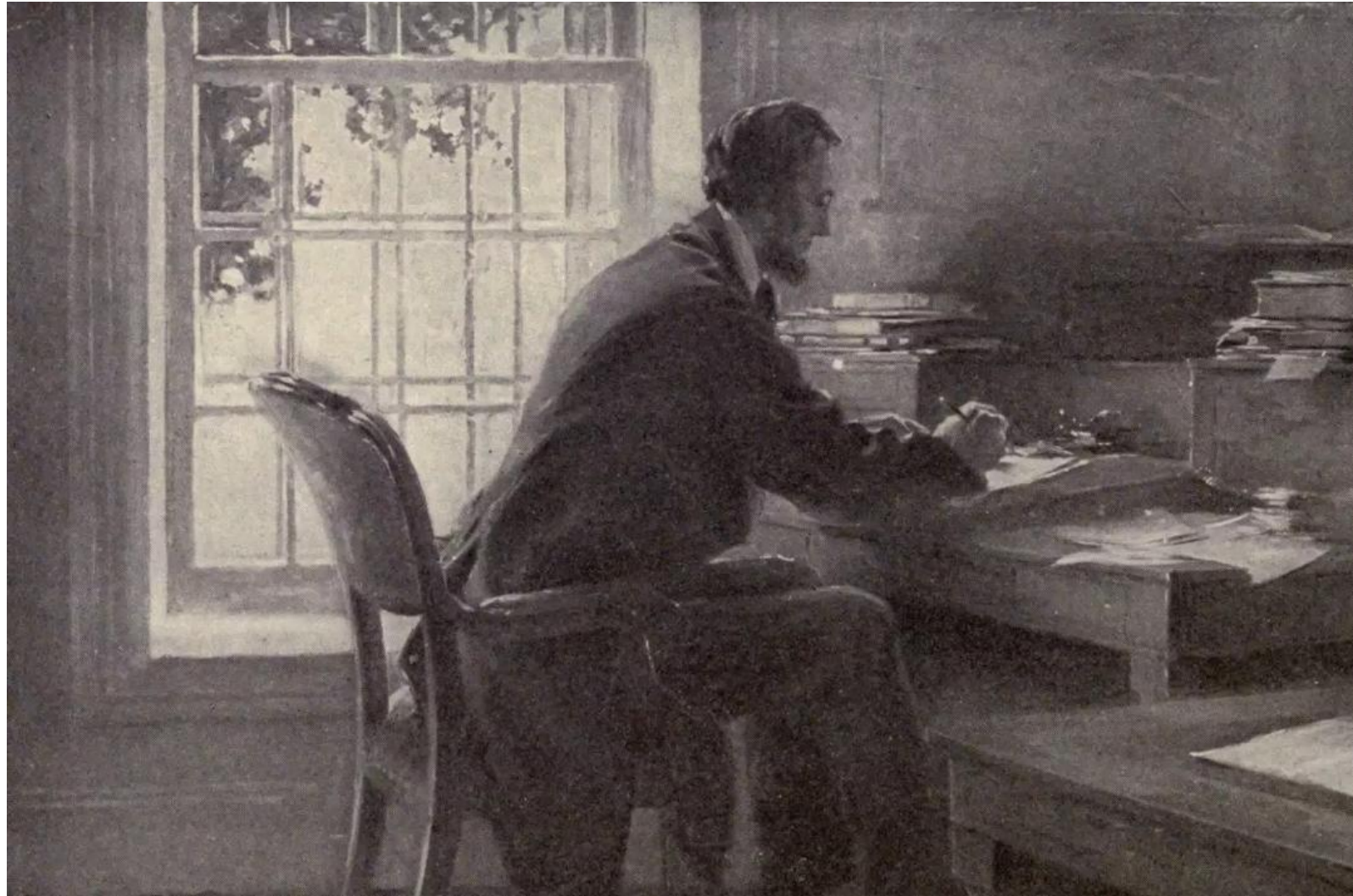
What news from upriver?

Lexington, Booneville or Jefferson City?

Please answer...

A. Lincoln

**The telegraph allowed President Lincoln issue
commands directly to the field**





During the battle of Gettysburg, for example,
Lincoln sent this telegraph to Gen. Joseph Hooker:

**"I think Lee's army, and not Richmond,
is your true objective"**

Movie...



Gettysburg Address

Two minutes...

Edward Everett - 2 hours

Come closer - central idea - occasion

No photograph of Lincoln

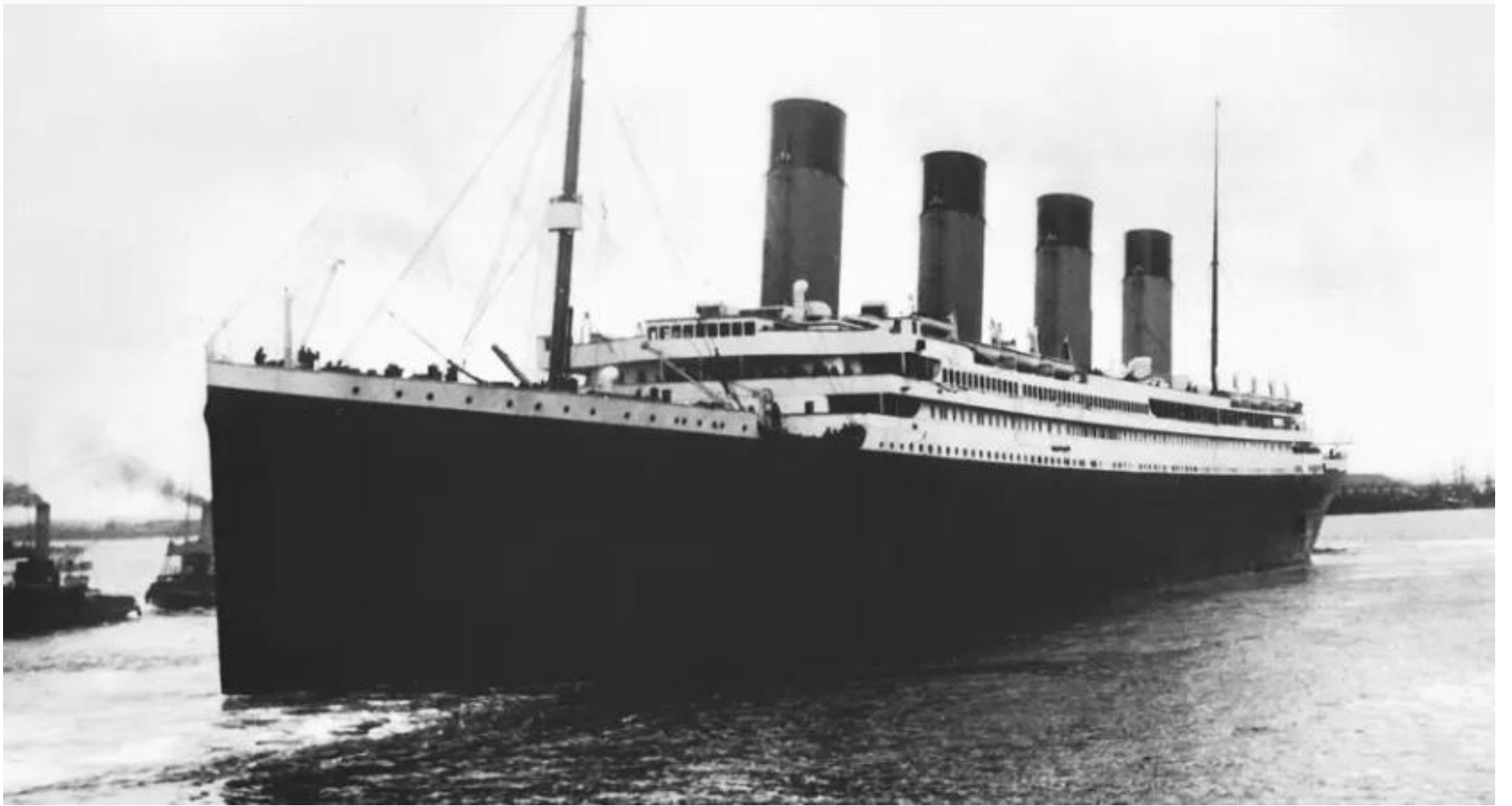


Over the Ocean Communications



Titanic

'C'-Mail



A decorative graphic on the left side of the slide, showing the overlapping hulls of three ships. The top hull is dark grey, the middle one is red, and the bottom one is dark red. They are angled upwards from the bottom left towards the top right.

Titanic Facts

22.5 knots speed

Break record UK New York in six days

Californian stopped 19 miles away

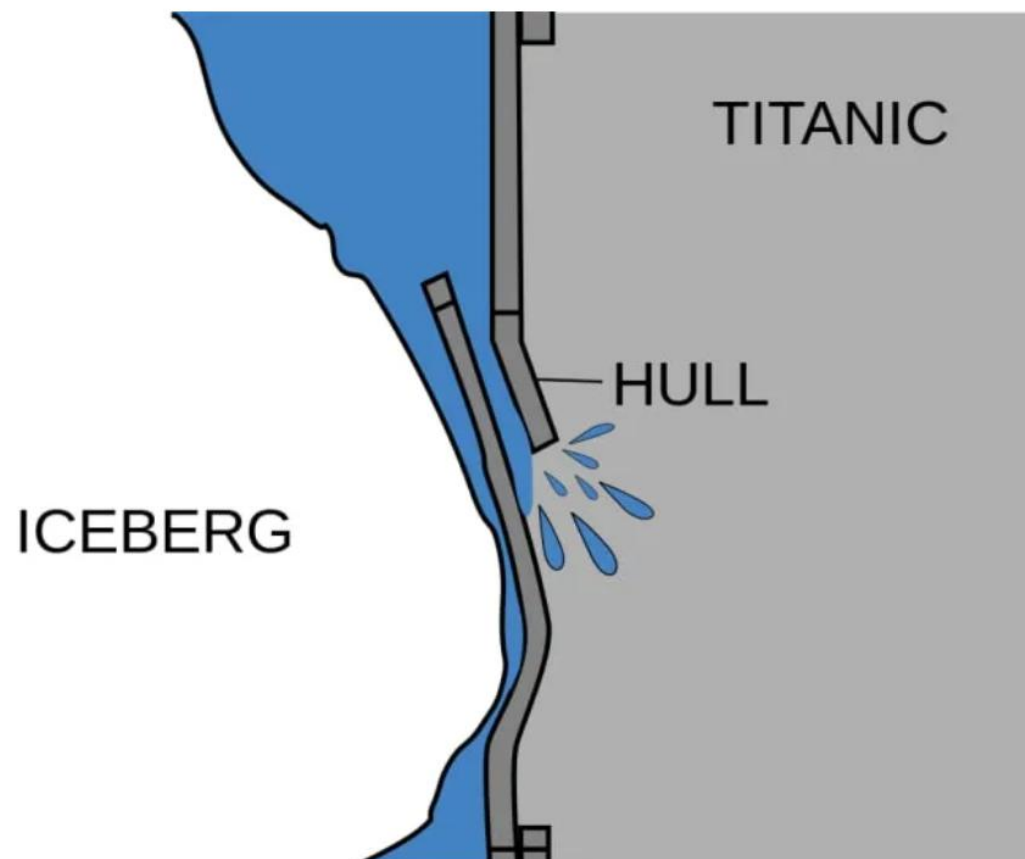
Radios off at midnight

Carpathia

58 miles and four hours away

Captain Edward Smith



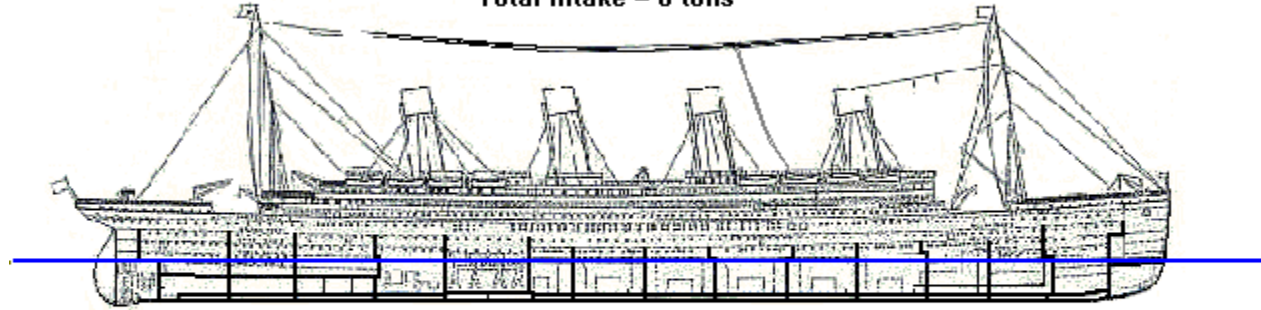




Titanic Sinking

SW Halpern

Undamaged Condition
Total Intake = 0 tons



Jack Phillips – Primary Op & Harold Bride – Secondary OP



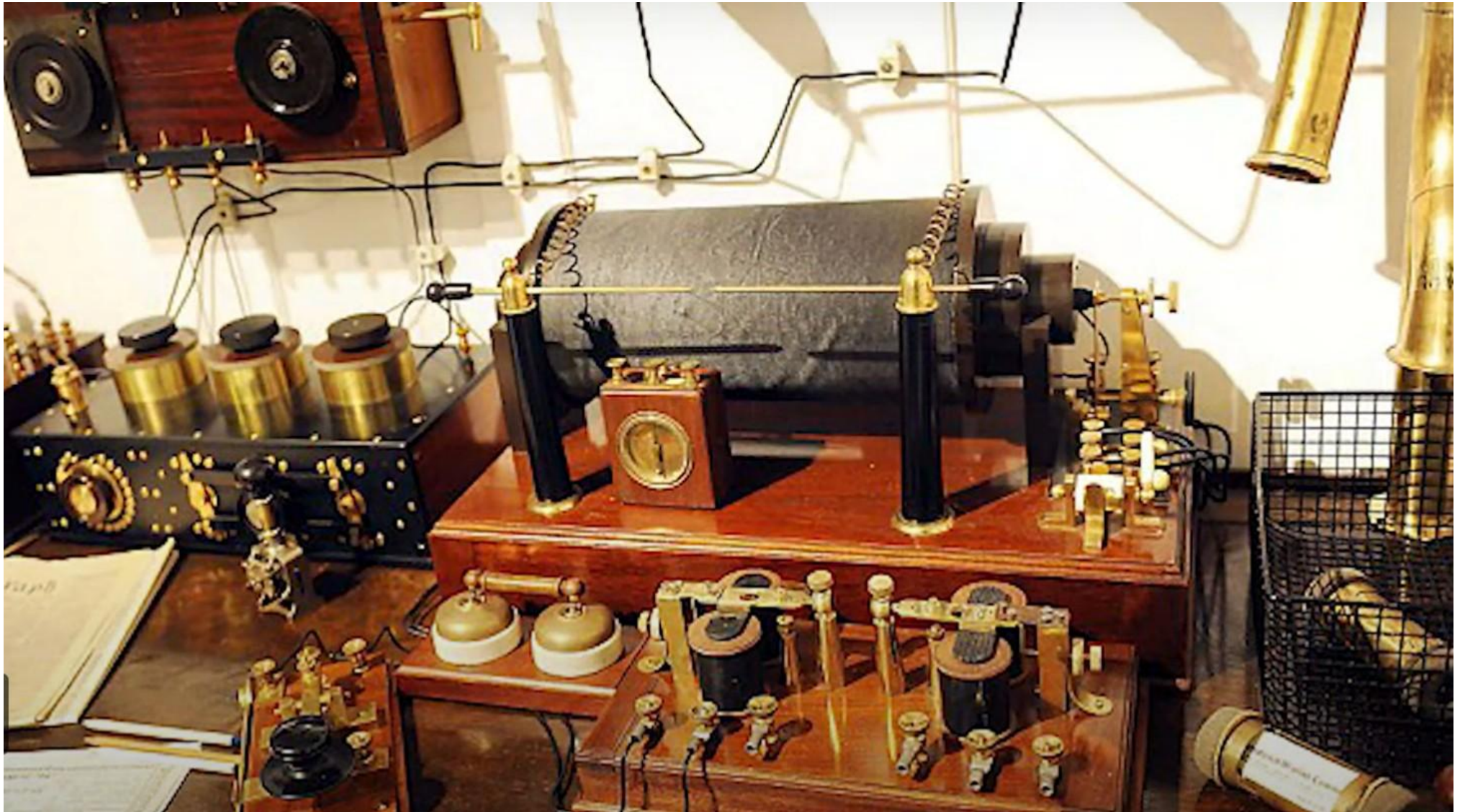
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"Jack" Phillips, Chief Wireless Operator on the Titanic, Who Was Lost in the Wreck.

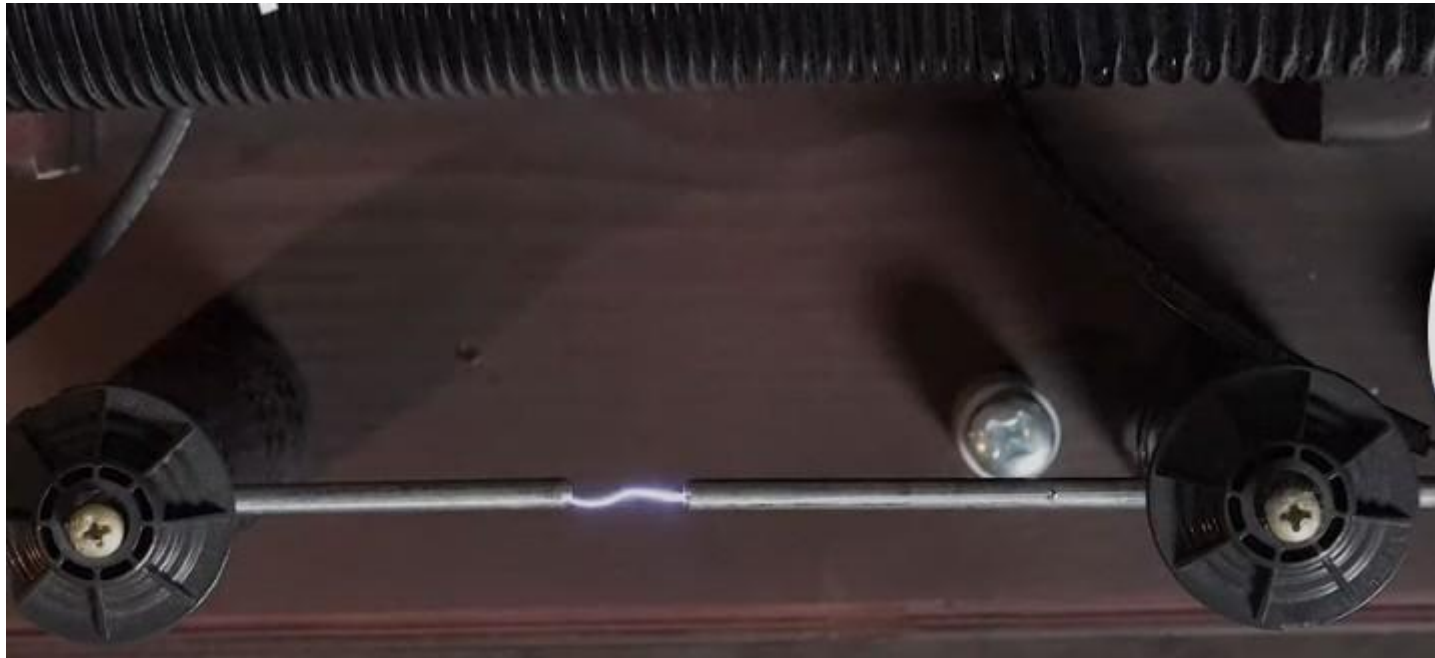
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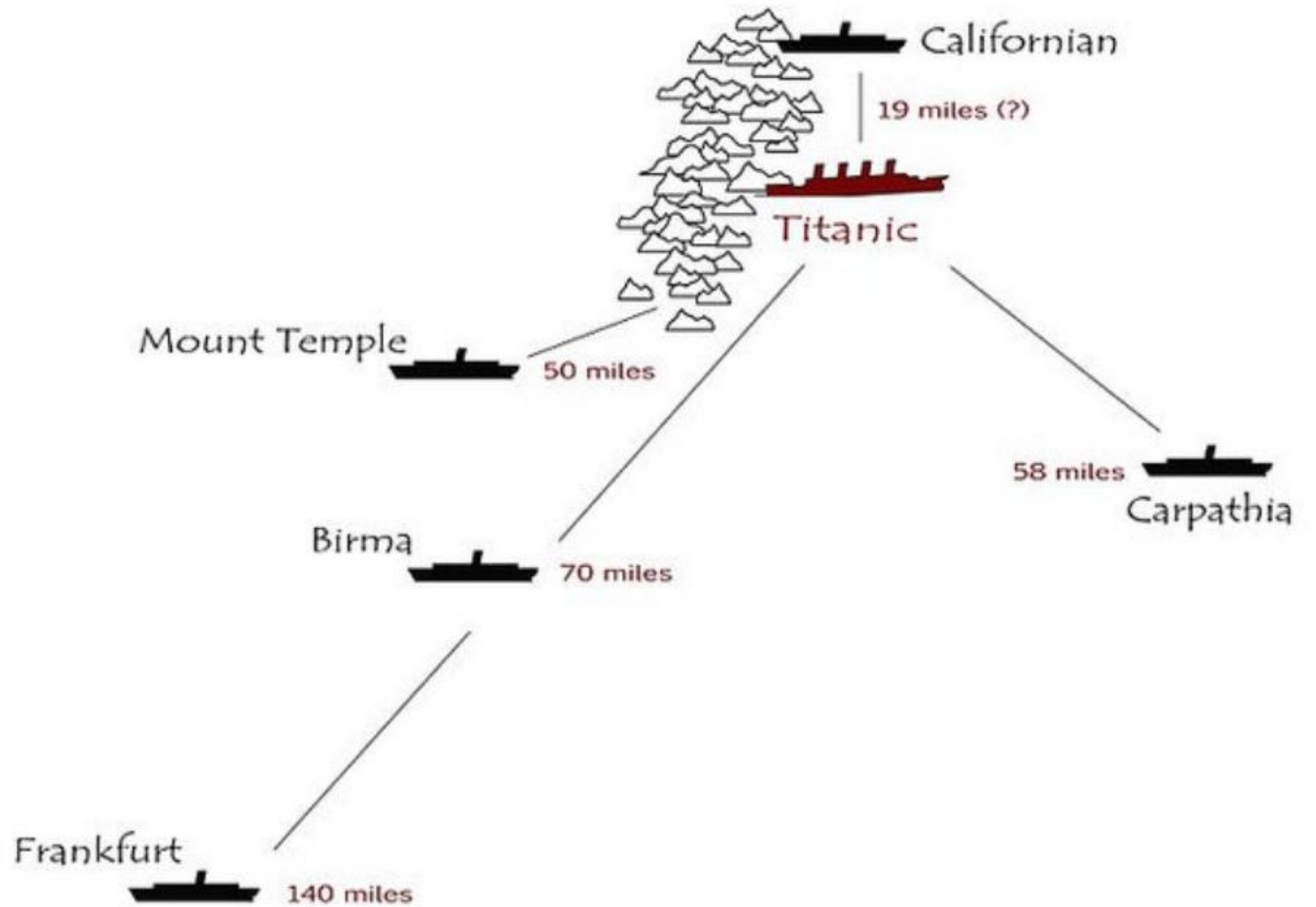
Harold Bride, Surviving Wireless Operator on the Titanic.

Spark Gap Transmitter similar – on all ships



Spark Gap Display





This is what happened on the SS Californian at the time of Titanic's sinking:



The *Californian* radio shift – midnight

Going off duty...saw *Titanic's* lights

Messaged *Titanic* again, warning
stopped and surrounded by ice



Most radio communication

'paid' traffic from guests

Californian's radio signal blocked

Titanic's communication

Titanic's reply

*"Shut up. I am busy...
I am working Cape Race"*

Californian **19** miles away,
never communicated with **Titanic** again



Log recreation...

Morse Code Traffic - April 15 1912

From *Titanic* (recreated)

- First message 12:15am
- Last message 02:17am

Logs records of other ships messages

- 40 seconds (1st video)
- 6 minutes (2nd video)

CQD became SOS

Station Callsigns

- MGY - *Titanic*
- MCE - Cape Race Newfoundland

12:15 a.m. TITANIC TO CAPE RACE:
TO HARRISON SANDFORD, NEW YORK
HELLO BOY. DINING WITH YOU IN SPIRIT
TONIGHT. HEART WITH YOU ALWAYS.
BEST LOVE, GIRL.

12:15 a.m. TITANIC TO CAPE RACE:
TO HARRISON SANDFORD, NEW YORK
HELLO BOY. DINING WITH YOU IN SPIRIT
TONIGHT. HEART WITH YOU ALWAYS.
BEST LOVE, GIRL.

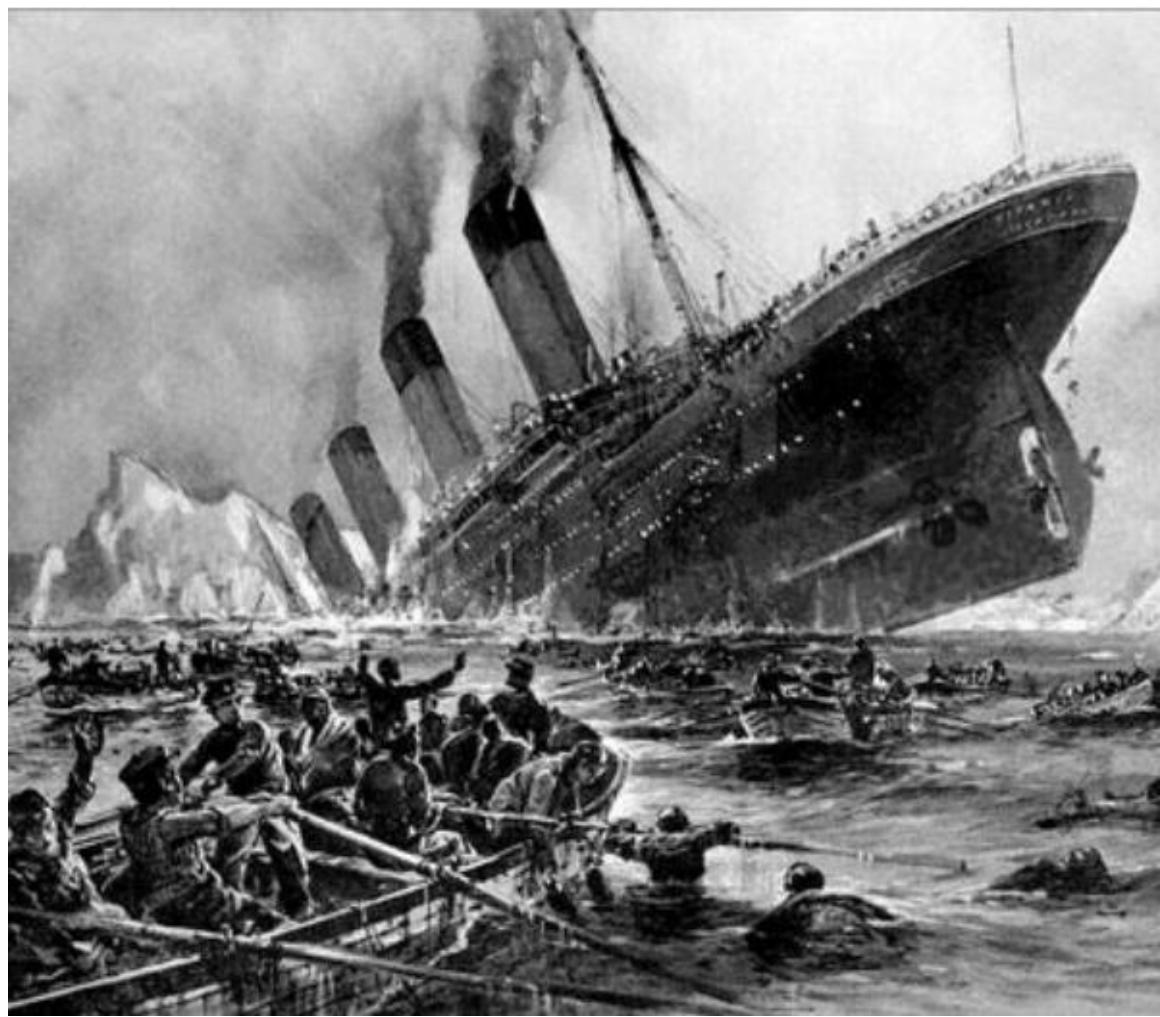
TITANIC TO CAPE RACE:
GEORGE SIMUND, NEW YORK
WEATHER DELIGHTFUL. FEELING FINE.
HOPE ALL

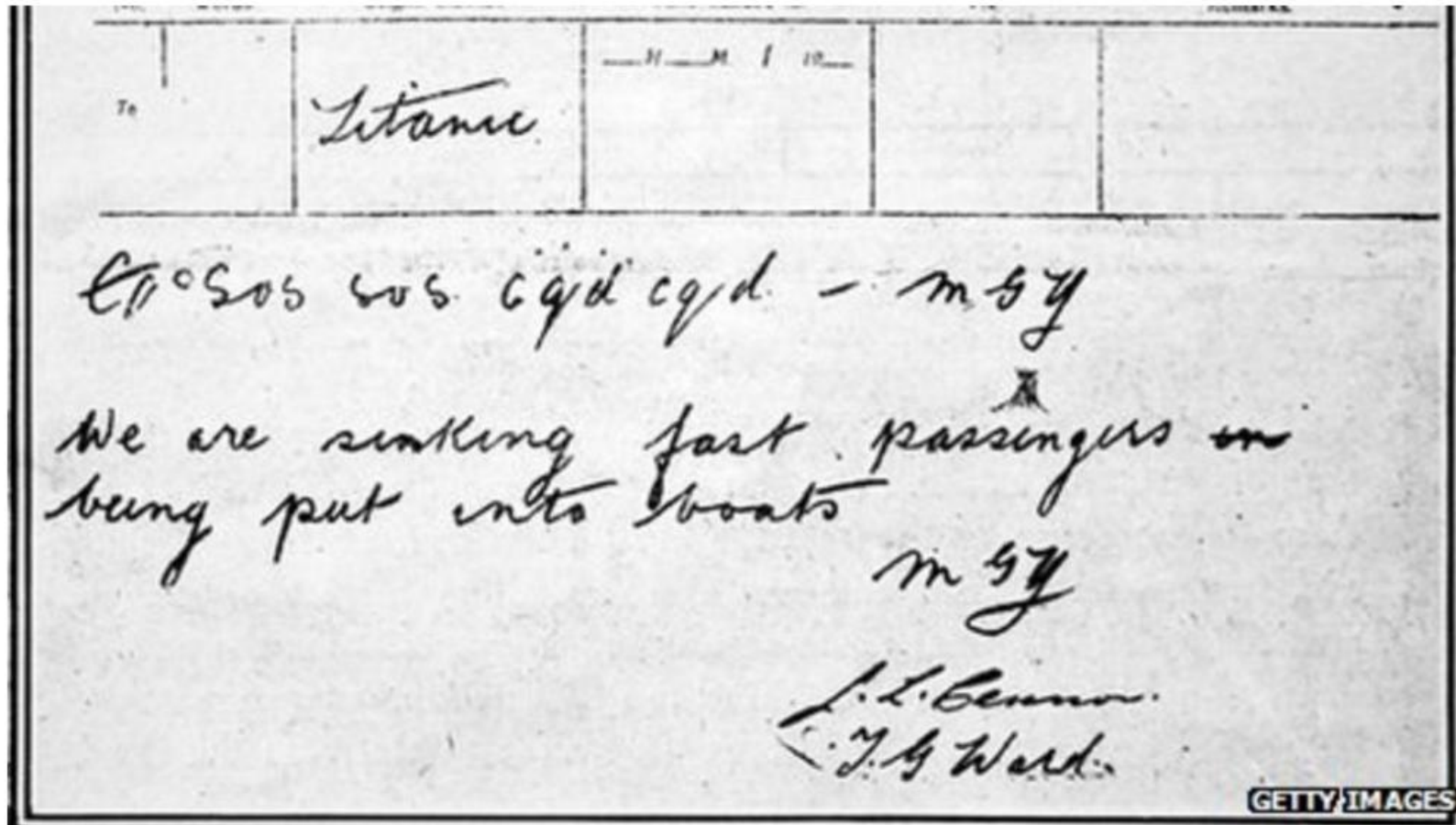
12:15 a.m. TO HARRISON SANDFORD, NEW YORK
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TONIGHT. HEART WITH YOU ALWAYS.
BEST LOVE, GIRL.

TITANIC TO CAPE RACE:
GEORGE SIMUND, NEW YORK
WEATHER DELIGHTFUL. FEELING FINE.
HOPE ALL

CQD THIS IS TITANIC
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CQD THIS IS TITANIC







One of the messages sent by Jack Phillips says the ship is 'sinking fast'

WATERGATE HOUSE, YORK BUILDINGS, ADELPHI, LONDON, W.C.

No. **OLYMPIC.**

OFFICE. **15 APR 1912** 19

CARPATHIA

Handed in at

CHARGES TO PAY.

This message has been transmitted subject to the conditions printed on the back hereof, which have been agreed to by the Sender. If the accuracy of this message be doubted, the Receiver, on paying the necessary charges, may have it repeated whenever possible, from Office to Office over the Company's system, and should any error be shown to exist, all charges for such repetition will be refunded. This Form must accompany any enquiry respecting this Telegram.

Total

To

OLYMPIC Received 2.10 pm N.Y.T.

WE RECEIVED DISTRESS SIGNAL CALL FROM THE TITANIC AT ELEVEN TWENTY AND PROCEEDED RIGHT TO SPOT MENTIONED. ON ARRIVAL AT DAYBREAK WE SAW ICE 25 MILES LONG APPARENTLY SOLID, QUANTITY OF WRECKAGE AND NUMBER OF BOATS FULL OF LIVES. WE RAISED ABOUT SIX HUNDRED AND SEVENTY SOULS. TITANIC HAS SUNK OUR WENT DOWN IN TWO HOURS.



Early Cross Country Communications



Military

W-Mail



Primary communications method

Between

On-shore

US and British Headquarters

In-field battle commands

Ships

Submarines

Aircraft

Secret agents









The Contest



Ben Cook – Dave Stoddard

Orem UT

2004 Guinness World Record

Two Morse Code Operators

Leno





What does this mean for you

**You can talk to people
all over the world**

Your friends can't do it

It's a lot of fun



What else

DXpeditions

Contesting

Emergency Communications



Welcome to **Summits on the Air!**

Parks on the Air® Hunter Guide





CW Academy

Eight-week course

One hour per night

Two nights a week

Free

Commitment is to Practice



Close with my favorite saying...

*“Anything worth doing WELL
worth doing POORLY first!!”*



That's All Folks

