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BBC Research & Development Department

**S.A.R.C.
RADIO QUIZ
2005**

Guglielmo Marconi

1874 - 1937

- Q1. If you happened to meet him, how would you greet him?
 - a) Hello, George.
 - b) Hi, Bill.
 - c) Ey-up, Elmer.
 - d) Mornin', Jim.





Q2. In which film
did Jodie Foster
play a
Radio Astronomer
who, as a young
girl, was also a
Radio Amateur?

3Y - Bouvet Island

South Atlantic



- Q3. Which country administers this isolated spot?

- 54° 26' S., 03° 24' E.

- a) South Africa
- b) Norway
- c) France
- d) The Netherlands

Clue :



Q4. Who is this?

- He died in June 2000.
- But helped to radiate a considerable amount of energy in his time.
- In fact, his erection was 30-odd feet tall and three times as wide!



Q5. For IOTA purposes, how many groups are the islands of the world divided into?



- a) 1000
- b) 1100
- c) 1200
- d) 1300

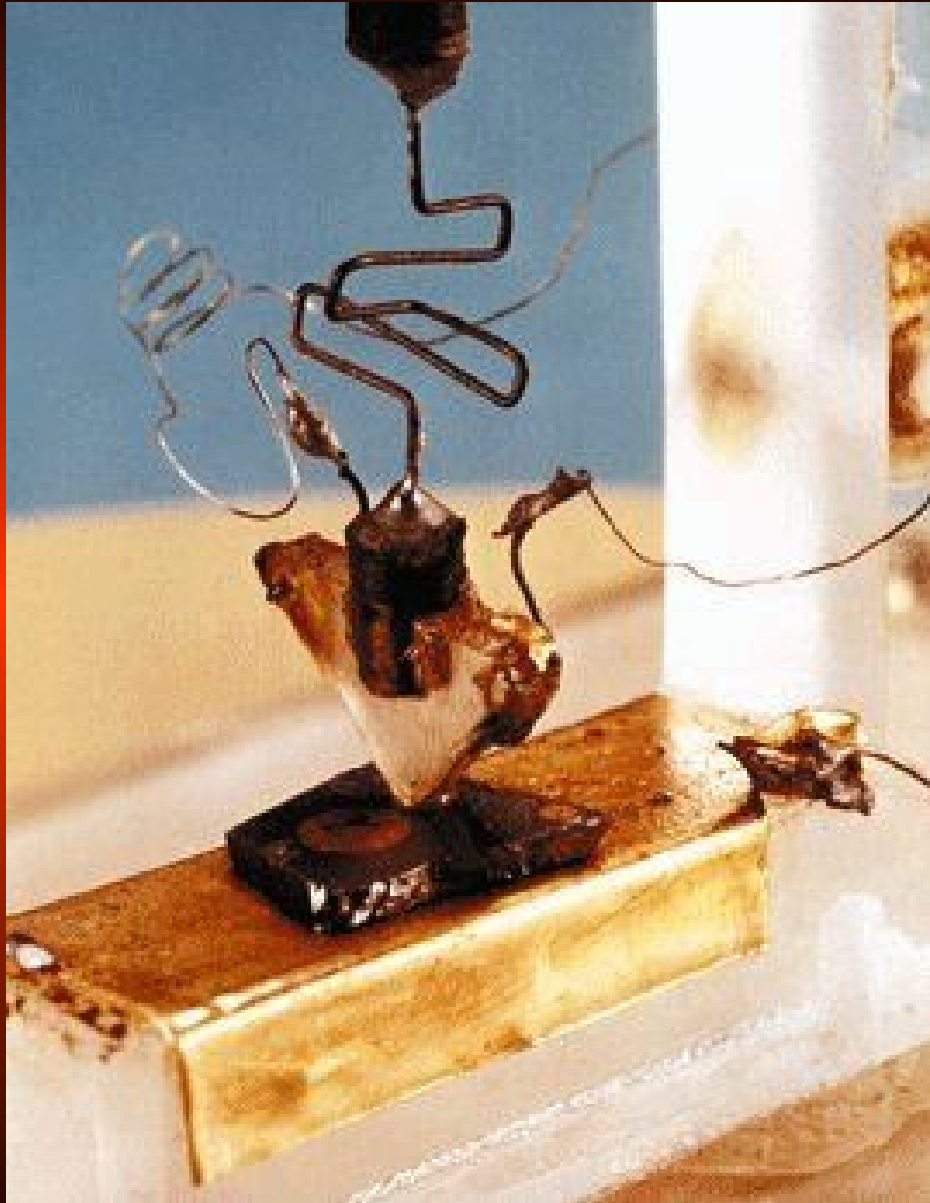
Q6. What percentage reflected power is represented by 3:1 on this SWR meter?



- a) 15% b) 20% c) 25% d) 30%

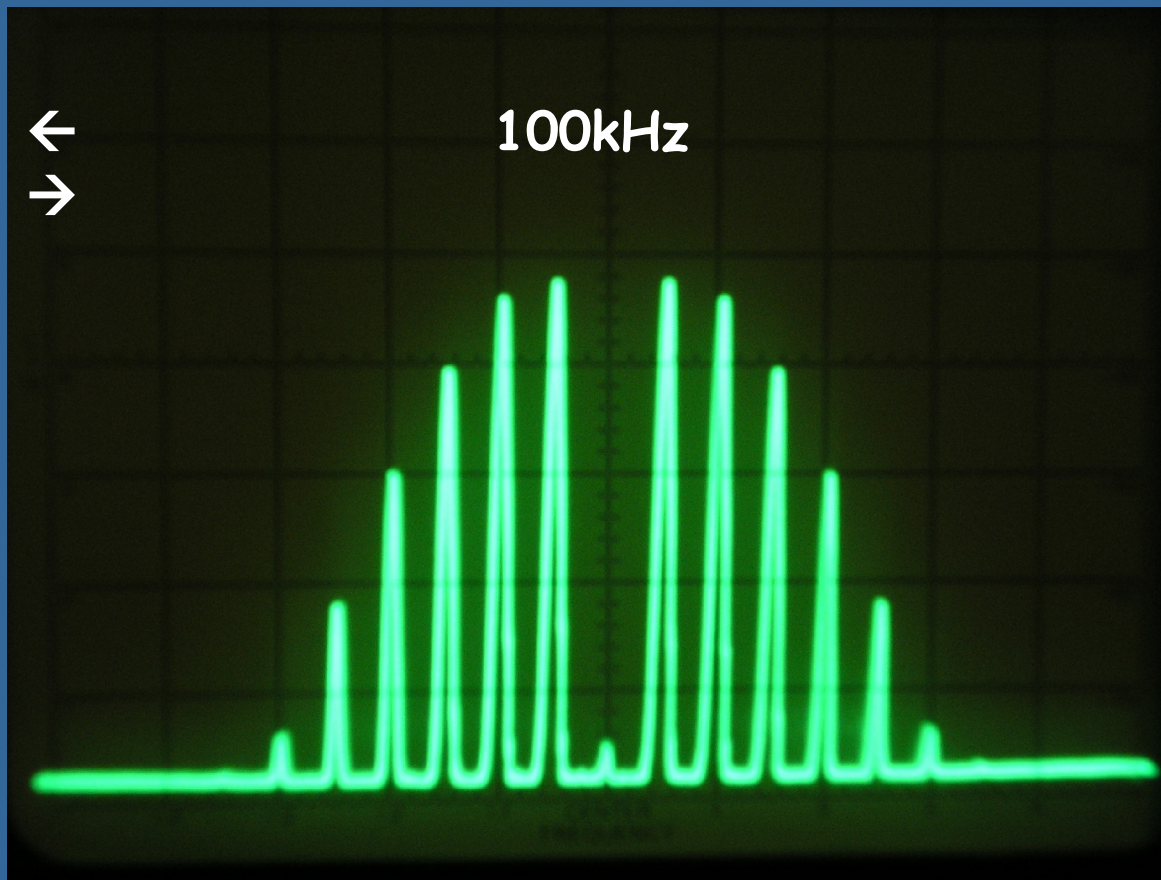


Q7. Of an evening - what would Martin and Scottie be doing up around 3730kHz ?



Q8. What is
this device
that first
appeared
around
Christmas
1947.

Q9. This is the spectrum of a carrier being modulated by a 5kHz tone. What type of modulation is being used?



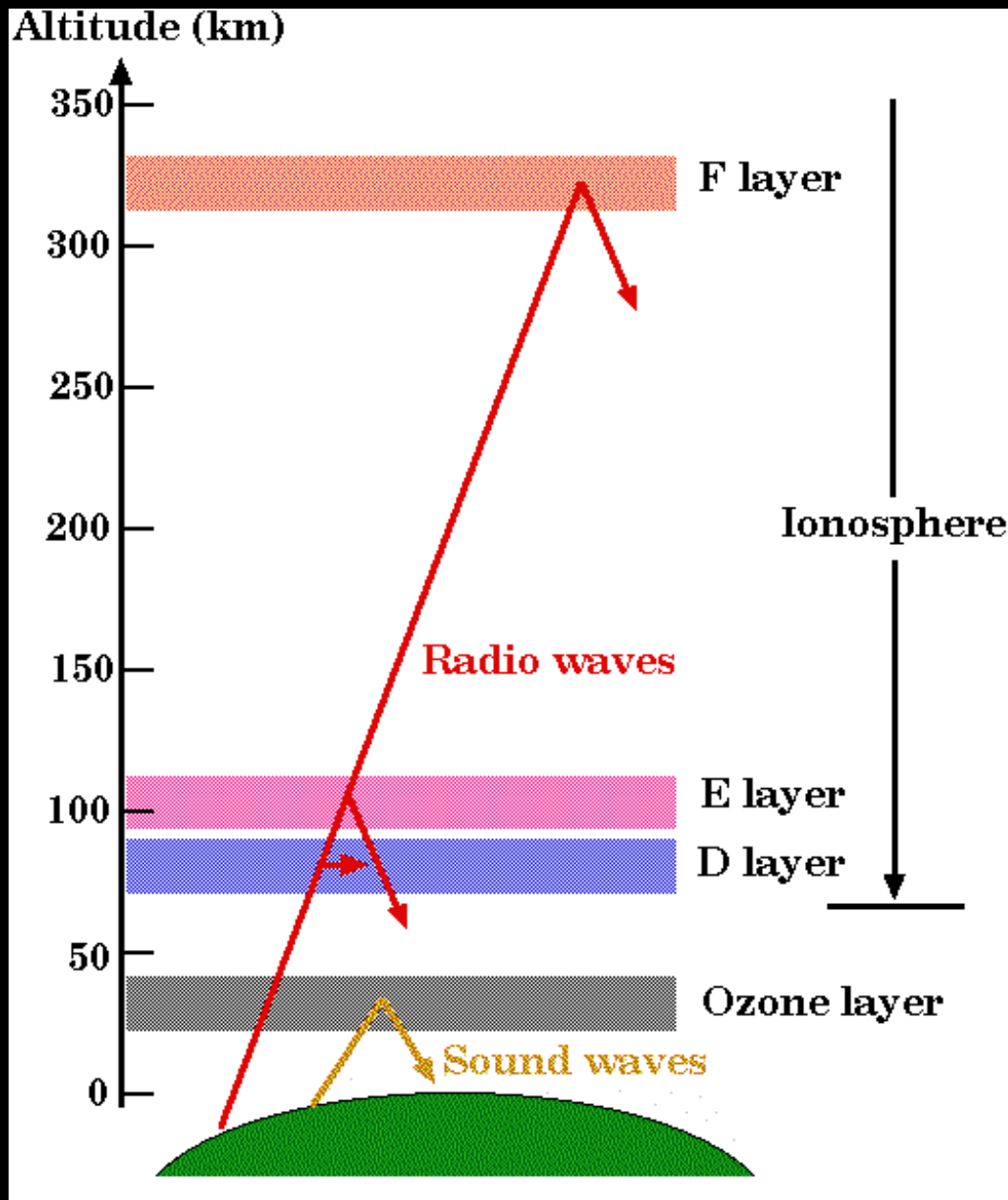
a) FM

b) AM

c) SSB

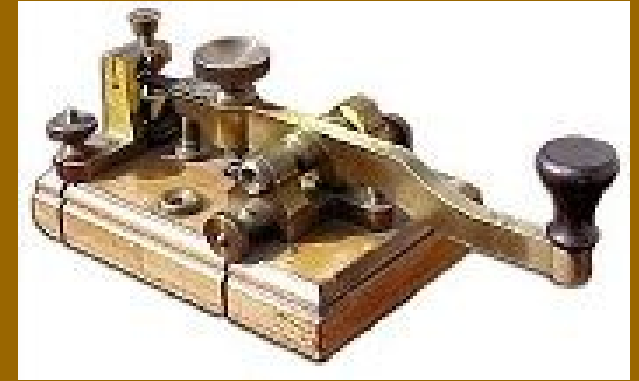
WHAT!

NO CARRIER ?



Q10. Which one of these layers is mainly responsible for poor conditions on the 80 and 160 metre bands during daylight?

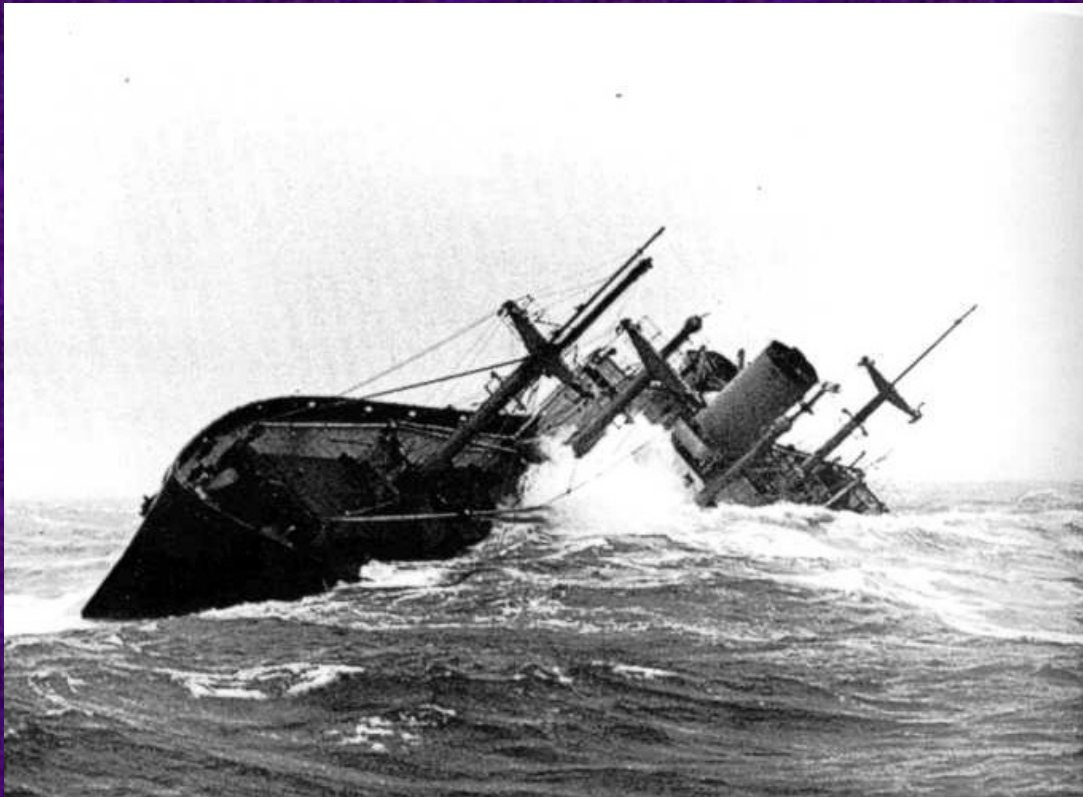
Q11. What are the CW characters for signing-off which are also the initials of the words meaning dear, departed and permanently inactive?



Who are this lot?

Well they're CW men over here from Tombstone and maybe have something to do with the decrease in the 'phone-only' radio amateur population !

Q12. This is the 'SS. Flying Enterprise' which went down off Falmouth, Cornwall in early January 1952.

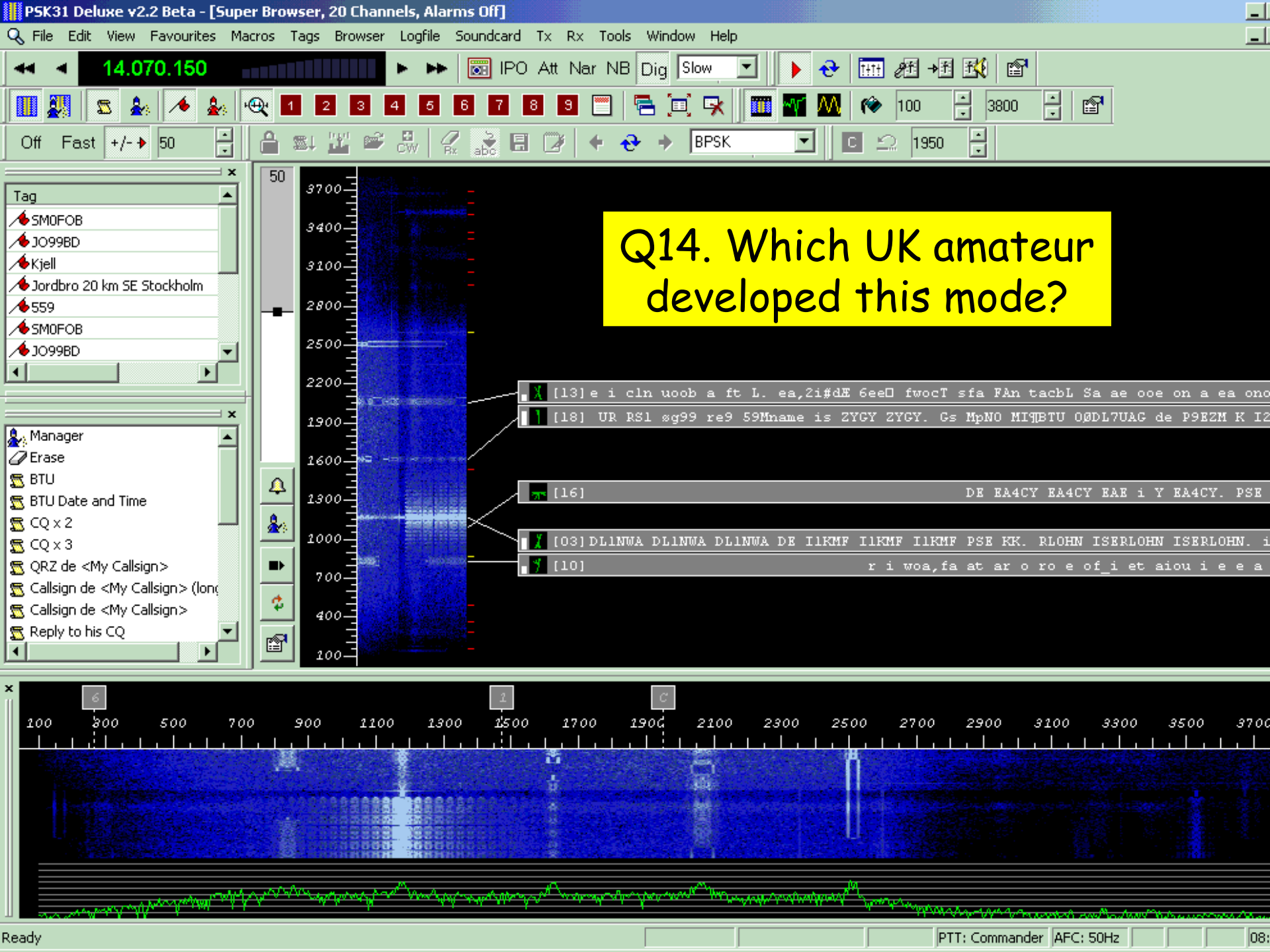


The Master was
Capt. Kurt Carlsen
W2ZXM/MM

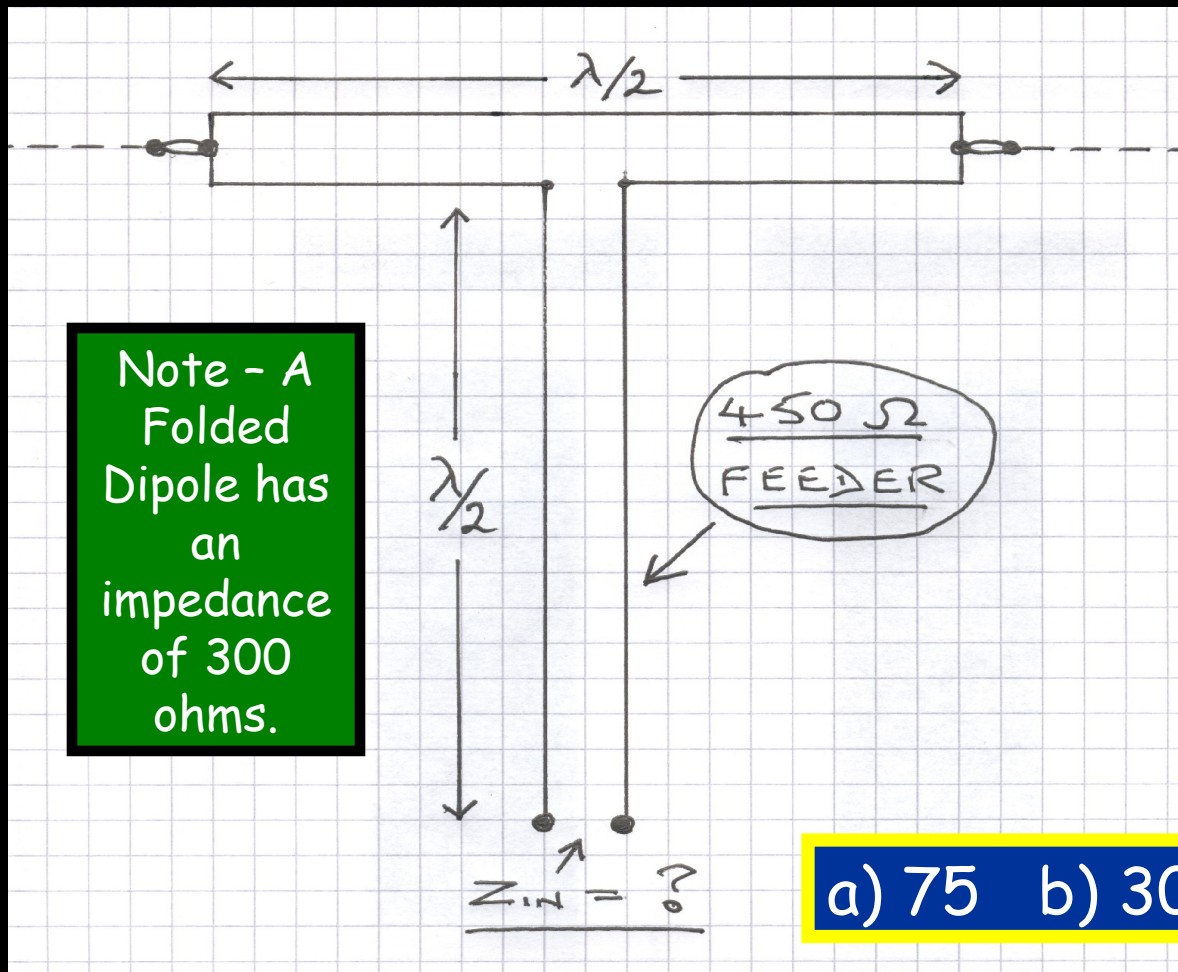
What did he do
at the time
that he is still
remembered
for?

Q13. Which former manufacturer of top-of-the-line amateur radio equipment designed this R-390A, a superb example of a military general coverage receiver?



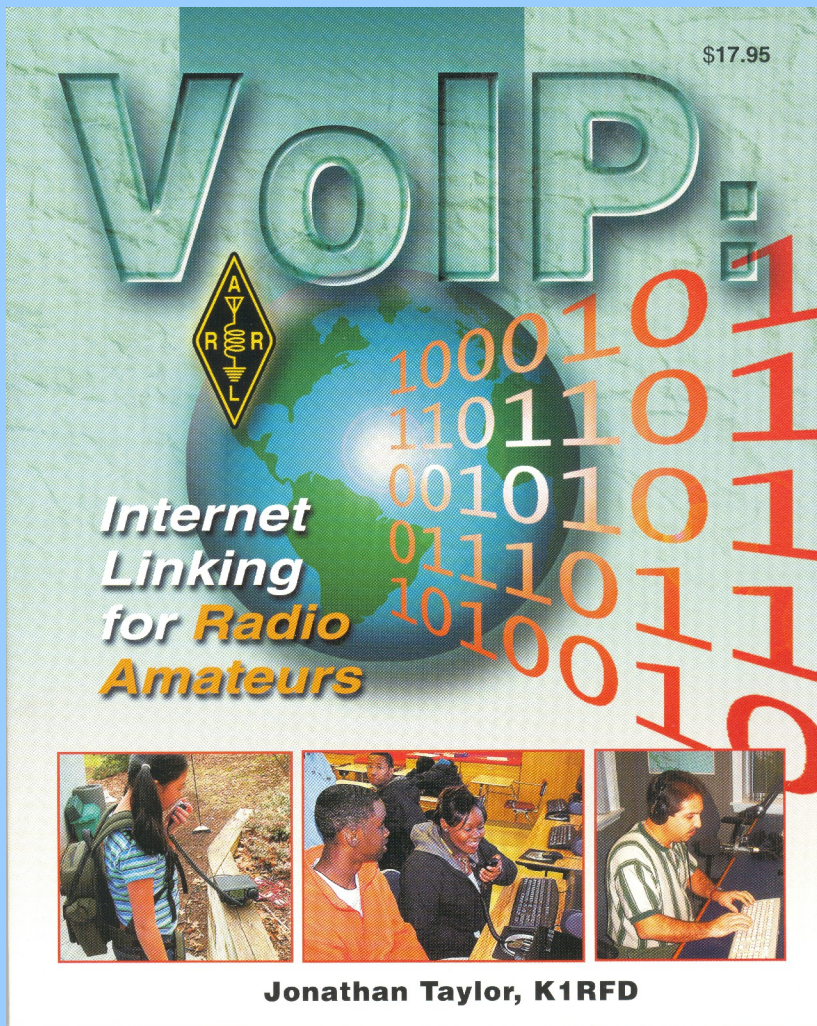


Q15. A folded dipole fed with a half-wave of 450 ohm feeder.



What is the impedance at the bottom end of the feeder?

- a) 75 b) 300 c) 450 d) 600



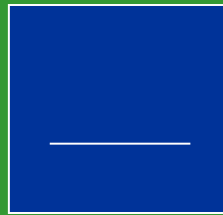
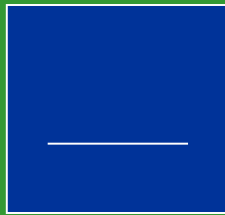
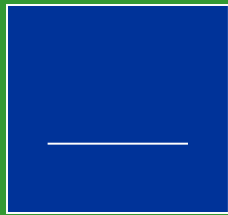
Q16. **VoIP** is just one of the many uses that amateurs now make of what has become known as the 'Internet'.

But what was the **NET** originally called back in the early 70's?

The organisation that funded it was the Defence **A**dvanced **R**esearch **P**rograms **A**gency

Q17.

103.5Hz 67.0Hz 71.9Hz



A 'three-letter' word ;
something that amateurs
often do on a repeater?



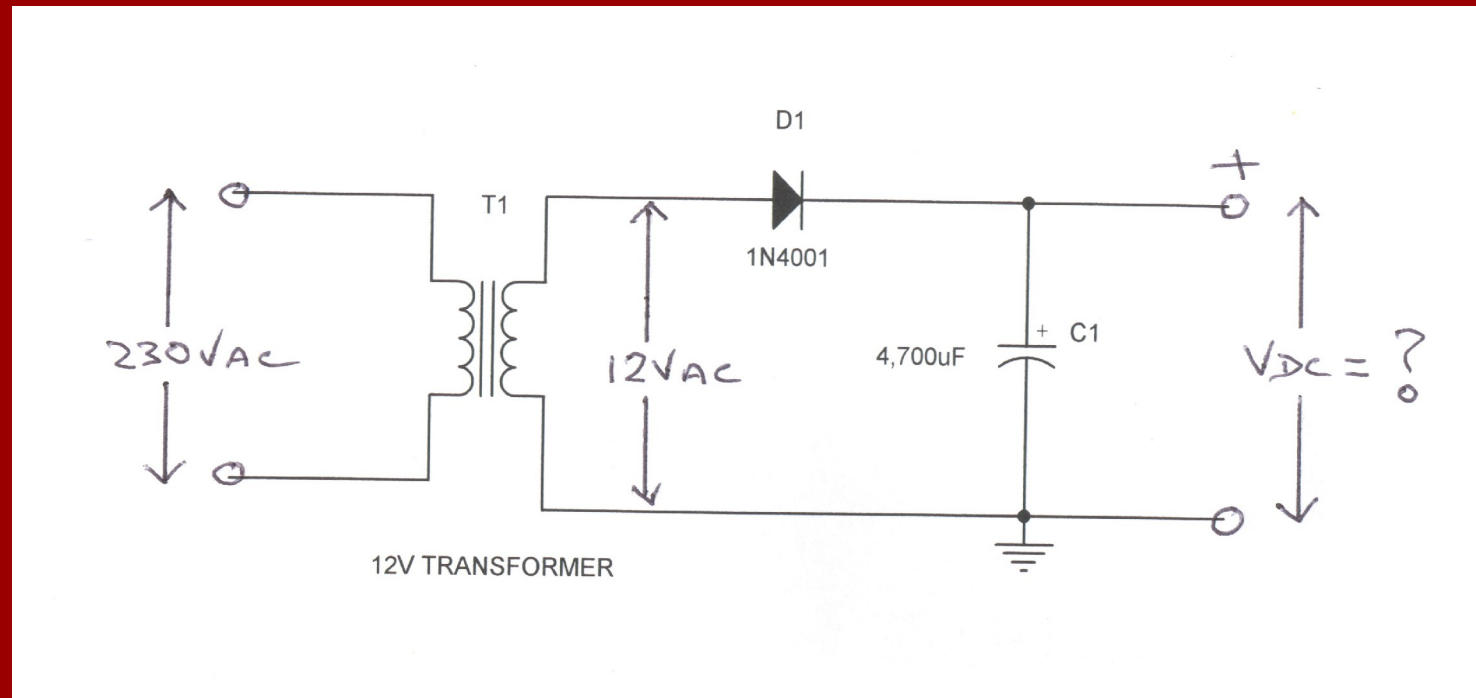
Q18. Over the years there have been three primary methods of generating SSB signals. Two of these are the 'Filter' and the 'Phasing' methods.

What is the 'third method' called?



A typical
phasing type
SSB
transmitter
from the
1950's

Q19. What is the approximate DC output voltage of this simple power supply with no load on it?



a) 10V

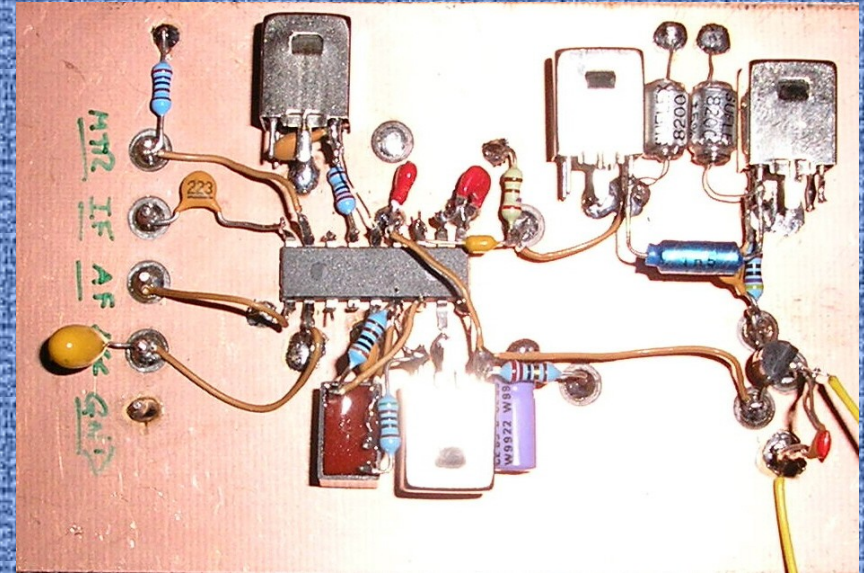
b) 12V

c) 16V

d) 20V



Jim William's
Thermometer



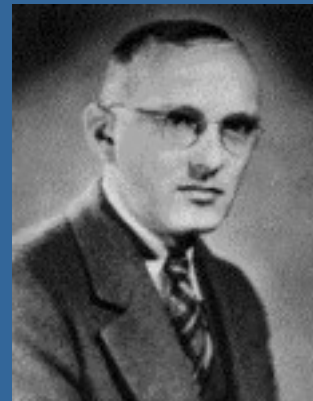
Prototype 100kHz Receiver

Q20. Apart from 'Rat's Nest', what is this simple but effective form of construction called?



HAMS WERE THERE FIRST !

Q21. Grote Reber W9GFZ, following on from the work of Carl Jansky (below), helped kick-start which modern science?





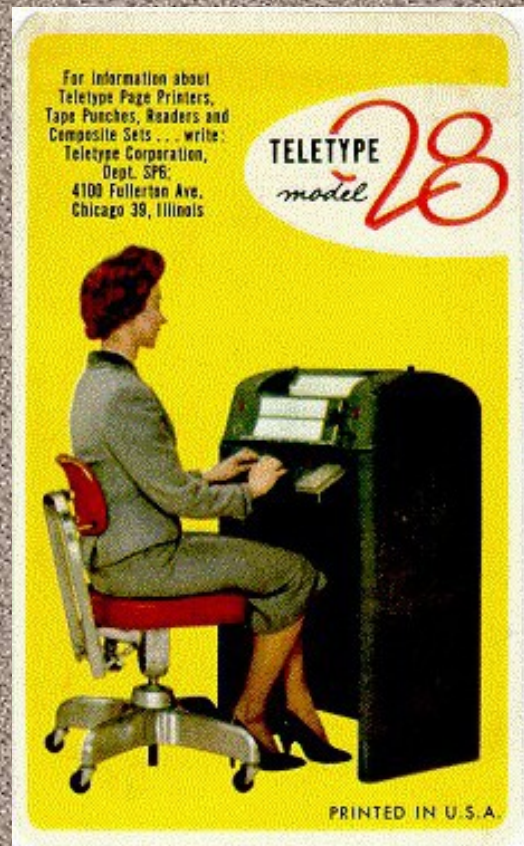
Q22. What is the amateur radio prefix of the world's smallest state?



Q23. Even though nowadays they employ a transistorised oscillator, what are these instruments still called?



Q24. In RTTY, when sending a 'reversals' test signal, which pair of letters is repeated continuously?



Inches

1

2

3

TELETYPE CODES

FIGURES	1	2	3	4	5	6	7	8	9	0	1	4	5	7	0	2	/	6	+	-	LETTERS	FIGURES	SPACE	CARRIAGE RETURN	LINE FEED					
1	↑	⊕	○	3	→	↓	8	↖	↗	·	⊖	9	0	1	4	5	7	0	2	/	6	+	-	LETTERS	FIGURES	SPACE	CARRIAGE RETURN	LINE FEED		
2	-	3	8	3	4	8	8	1	2	3	8	9	0	1	4	5	7	0	2	/	6	"	'	LETTERS	FIGURES	SPACE	CARRIAGE RETURN	LINE FEED		
3	-	?	\$	3	!	8	#	8	'	()	·	9	0	1	4	5	7	0	2	/	6	"	'	LETTERS	FIGURES	SPACE	CARRIAGE RETURN	LINE FEED		
LETTERS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	SYMBOLS ABOVE ON TAPE ONLY			
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	

1 WEATHER

2 FRACTIONS

3 COMMUNICATIONS

Centimeters

1

2

3

4

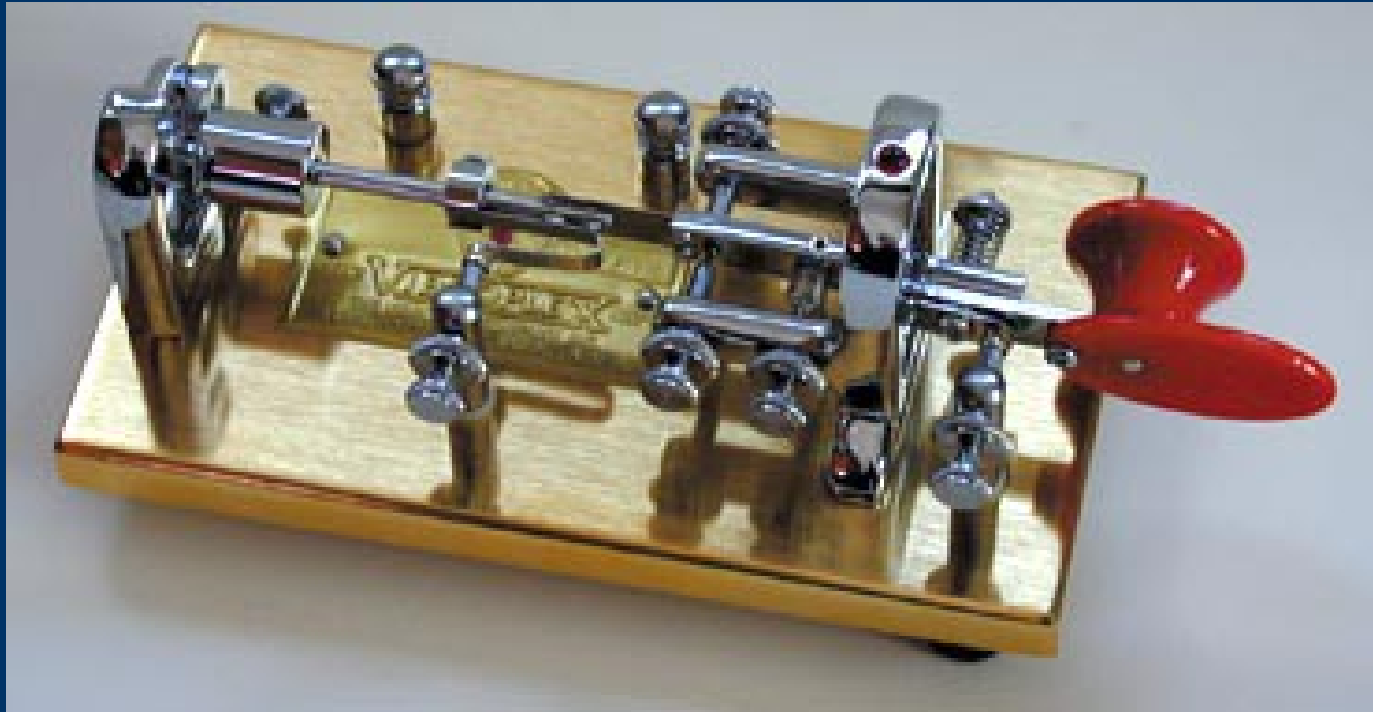
5

6

7

8

THE QUICK BROWN FOX JUMPED OVER THE LAZY DOG'S BACK



Q25. What is the creature on the logo of the Vibroplex Co., who make these keys?

The background of the slide features a dark blue field with three sets of concentric circles in a lighter blue color. These circles are arranged in a triangular pattern, with one set in the top left, one in the top right, and one centered at the bottom. The circles overlap and create a subtle pattern across the entire slide.

The End

A Sheffield Amateur Radio Club Production

- MMV -