

orsum  
agnificat

Q & Z

Codebook  
for the  
Morse-Telegraphy





Q & Z

## The Inevitable Preface

MORSUM MAGNIFICAT, being highly nostalgic, has looked on the decline of the Q-code and the Z-code with some sadness. Wiping away our tears we decided, at the last minute perhaps, to try to do something about it.

From time to time a magazine article has stimulated or re-kindled interest, but when there is little or no knowledge of the subject to begin with, such an article, just listing the most popular codes, is of limited use, and then only for newcomers to Morse telegraphy.

There has long been a need for a complete reference book on the subject, and here it is !

To obtain as wide a circulation as possible, we have published in English, making the book useful for telegraphers wherever they are around the world.

Because the past is of such importance to us, and for the older operators who knew them, we have included some codes which are no longer in use, but only when they do not conflict with later ones. The \* designates such codes.

Specific codes used by radio amateurs are also included, again when they do not conflict with official codes, and these are indicated by + (amateur). Dick has used some of the non-assigned codes to present his view of the affair !

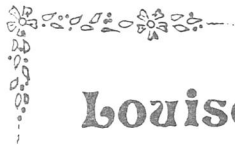
May this booklet fill a gap, and be used frequently !



Dick  
PA3ALM



Rinus.  
PA0BFN.



# Louise's Point of View



Dear Rinus--

I disagree, I am not an "authority". My own definition of an authority is: A person who has read one more fact than any other person in a group. And that fact began over 30 years ago, when I found that there were no references at all about keys except here and there in very old, out-of-print books or exhibits in Museums (some were not correct) or in manufacturers catalogues, I decided to go on my own hunt for these hard to find books etc., start my own collection and find all the facts - and I am still hunting. But I am learning and have quite a library here.

Now, the popularly named "Q-code". It is fascinating really and it all began in 1912 at the ITU London Conference. It was upgraded and brought up to date after the 1927 conference. It is a pet subject of mine, the properly named "THE LIST OF ABBREVIATIONS TO BE USED IN RADIO COMMUNICATION". This was one of the subjects that was on the Agenda of the London Conference of the International Telecommunications Union in 1912.

What do you mean that it is a dull subject ? From the moment that the now famous "letter S" spanned the Atlantic in December 1901, the answer to contact with ships at sea was assured, and radio (wireless) was a rapidly growing medium. In those early days Spark was King and spoke with a mighty voice and the formerly called "silent seas" had developed the many voices of King Spark from the deep baritone of the British transmitters through the twittering of the Canadians. But there was a problem: not everyone among the brotherhood of radio-operators was a fluent linguist, so that the air waves bore a definite resemblance to the Biblical "Tower of Babel."

By 1912, that first Radio Conference of the ITU decided on a universal language so that any operator could understand it, thus a Japanese could converse with a ship from any other country and be understood by means of the code of abbreviations.

The code has been revised and augmented at additional ITU-conferences, even as then the code itself has been changed from the 1912 approved listing, particularly in the punctuation. But every time I work a really lousy operator with a fist that only a mother could love, I wish those guys in London, Paris, Washington or Madrid would have left that PRB in the list. I would love to slam that one at the lid, who is murdering the code; he would deserve it.

I do not know about other countries, but here in the U.S. there is a bad tendency of phone operators to use the Q code and pop happily into a net saying "I am QRU". Or worse to hear one say: "OK, GA I am QRV with stick". At which time I quietly go off the air....

I hope I have been of some help and include a copy of the original list.

73,

*Louise*

W3WRE -- 99,99 % CW.

DEPARTMENT OF COMMERCE 1912  
BUREAU OF NAVIGATION  
RADIO SERVICE

INTERNATIONAL RADIOTELEGRAPHIC CONVENTION  
LIST OF ABBREVIATIONS TO BE USED IN RADIO COMMUNICATION

ABBREVIATION	QUESTION	ANSWER OR NOTICE
PRB	Do you wish to communicate by means of the International Signal Code?	I wish to communicate by means of the International Signal Code.
QRA	What ship or coast station is that?	This is .....
QRB	What is your distance?	My distance is .....
QRC	What is your true bearing?	My true bearing is ..... degrees.
QRD	Where are you bound for?	I am bound for .....
QRF	Where are you bound from?	I am bound from .....
QRG	What line do you belong to?	I belong to the ..... Line.
QRH	What is your wave length in meters?	My wave length is ..... meters.
QRJ	How many words have you to send?	I have ..... words to send.
QRK	How do you receive me?	I am receiving well.
QRL	Are you receiving badly? Shall I send 20? .....	I am receiving badly. Please send 20. ....
	for adjustment?	for adjustment.
QRM	Are you being interfered with?	I am being interfered with.
QRN	Are the atmospherics strong?	Atmospherics are very strong.
QRO	Shall I increase power?	Increase power.
QRP	Shall I decrease power?	Decrease power.
QRQ	Shall I send faster?	Send faster.
QRS	Shall I send slower?	Send slower.
QRT	Shall I stop sending?	Stop sending.
QRU	Have you anything for me?	I have nothing for you.
QRV	Are you ready?	I am ready. All right now.
QBW	Are you busy?	I am busy (or: I am busy with .....). Please do not interfere.
QRX	Shall I stand by?	Stand by. I will call you when required.
QRY	When will be my turn?	Your turn will be No. ....
QRZ	Are my signals weak?	Your signals are weak.
QSA	Are my signals strong?	Your signals are strong.
QSB	Is my tone bad?	The tone is bad.
QSC	Is my spark bad?	The spark is bad.
QSD	Is my spacing bad?	Your spacing is bad.
QSF	What is your time?	My time is .....
	Is transmission to be in alternate order or in series?	Transmission will be in alternate order.
QSG	.....	Transmission will be in series of 5 messages.
QSH	.....	Transmission will be in series of 10 messages.
QSI	What rate shall I collect for?	Collect .....
QSK	Is the last radiogram canceled?	The last radiogram is canceled.
QSL	Did you get my receipt?	Please acknowledge.
QSM	What is your true course?	My true course is ..... degrees.
QSN	Are you in communication with land?	I am not in communication with land.
QSO	Are you in communication with any ship or station (or: with .....)?	I am in communication with ..... (through .....
QSP	Shall I inform ..... that you are calling him?	Inform ..... that I am calling him.
QSQ	Is ..... calling me?	You are being called by .....
QSR	Will you forward the radiogram?	I will forward the radiogram.
QST	Have you received the general call?	General call to all stations.
QSU	Please call me when you have finished (or: at ..... o'clock)?	Will call when I have finished.
*QSV	Is public correspondence being handled?	Public correspondence is being handled. Please do not interfere.
QSW	Shall I increase my spark frequency?	Increase your spark frequency.
QSX	Shall I decrease my spark frequency?	Decrease your spark frequency.
QSY	Shall I send on a wave length of ..... meters?	Let us change to the wave length of ..... meters.
QSZ	.....	Send each word twice. I have difficulty in receiving you.
QTA	.....	Repeat the last radiogram.
QTE	What is my true bearing?	Your true bearing is ..... degrees from .....
QTF	What is my position?	Your position is ..... latitude ..... longitude.

\* Public correspondence is any radio work, official or private, handled on commercial wave lengths.  
When an abbreviation is followed by a mark of interrogation, it refers to the question indicated for that abbreviation.

Question	Information
QAA	
QAB	May I have clearance (for..) from...(place and/or control) to...(place and/or control) at...(figures and units) height above...(datum) ?
	You are cleared (or...is cleared) by...from...(place and/or control) to...(place and/or control) at...(figures and units) height above...(datum).
QAC	
QAD	
QAE	
QAF	Will you advise me when you are (where) at (over)...(place)
	I am (was) at (over)...(place)(at ...hours) (at...(figures and units) height above...(datum).
QAG	
QAH	What is your height above...(datum) ?
	Arrange your flight in order to be over...(place) at...hours. or I am arranging my flight in order to arrive over...(place) at...hours.
	I am at...(figures and units) height above...(datum). NOTE: An aircraft is permitted to reply to QAH? by using any of the answer forms of signals QBF, QBG, QBH, QBK, QBN or QBP. In such cases the signal QAR is omitted from the reply.
QAI	What is the essential traffic ? NOTE: Relates to aircraft and not communication traffic.
	Arrange your flight so as to reach...(figures and units) height above...(datum) at...(hours or place).
	The essential traffic is... NOTE: Relates to aircraft and not communication traffic.
QAJ	
QAK	Is there any risk of collision ?
	There is risk of collision. NOTE: This signal should be followed by appropriate Q signals or ICAO approved abbreviations giving instructions for avoiding collision.
QAL	Are you going to land at...(place) ? or Has aircraft...landed at...(place) ? (See also signal QTP).
	I am going to land at...(place) or (You may) land at...(place). or Aircraft...landed at...(place). (See also signal QTP).
QAM	What is the latest available meteorological observation for...(place) ?
	Meteorological observation made at...(place) at...hours was as follows... NOTE: The information may be given in Q code form or the AERO form of


Question

Information

		the International Meteorological Figure Code. When in Q code, the information is to be given in the following sequence of Q signal answer (or info) forms: QAN, QBA, QNY, QBB, QNH and/or QFE and, if necessary QMU, QNT, QBJ. It is not normally necessary to precede the QAN, QBA, QNY and QBB information by these Q signals but this may be done if considered desirable. When in the AERO form of International Meteorological Figure Code, the abbreviation AERO is to precede the information.
QAN	What is the surface wind direction and speed at... (place) ?	The surface wind direction and speed at...(place) at...hours is...(direction)...(speed figures and units). NOTE: Unless otherwise indicated in the question surface wind direction is given in degrees relative to MAGNETIC North.
QAO	What is the wind direction in degrees TRUE and speed at...(position or zone/s) at each of the...(figures) ...(units) levels above... (datum) ?	The wind direction and speed at... (position or zone/s) at the following heights above...(datum) is...
QAP	Shall I listen for you (or for...) on ...kHz (MHz)? NOTE: If the frequency is given in megacycles, the abbreviation MC is to be used. (See also signal QSX)	Listen for me (or for...) on... KHz (or...MHz). NOTE: If the frequency is given in megacycles, the abbreviation MC is to be used. (See also signal QSX).
QAQ	Am I near a prohibited area (or...prohibited area) ?	You are... (1. Near 2. Flying over) a prohibited area (or...prohibited area).
QAR	May I stop listening on the watch frequency for... minutes ?	You may stop listening on the watch frequency for ...minutes.
QAS		
QAT		
QAU		I am about jettison fuel.
QAV*	Can you home on my station ?	I am flying (on...station) on my homer.
QAW		I am about to carry out overshoot procedure.
QAX		
QAY	Will you advise me when you pass (passed)...(place)	I passed...(place) bearing...degrees relative to my heading at...hours.

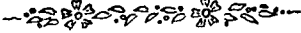
Question

Information

	bearing 090 (270) degrees relative to your heading ?	
QAZ	Are you experiencing communication difficulties through flying in a storm ?	I am experiencing communication difficulties through flying in a storm. NOTE: Attention is invited to the possible supplementary use of signals QAR, QBE, QCS, QRM, QRN, QRX, QSZ or the signal CL to amplify the meaning associated with signal QAZ.
		
QBA	What is the horizontal visibility at...(place) ?	The horizontal visibility at... (place) at...hours is ...(distance figures and units).
QBB	What is the amount, type and height above official aerodrome elevation of the base of the cloud (at... (place)) ?	The amount, type and height above official aerodrome elevation of the base of the cloud at...(place) at.. hours is: ...ights (...type) at ...(figures and units) height above official aerodrome elevation.
QBC	Report meteorological conditions as observed from your aircraft (at...(position or zone)) (at...hours).	The meteorological conditions as observed from my aircraft at... (Position or zone) at...hours at... (figures and units) height above... (datum) are... NOTE: The information may be given in AIREP or Q-code form. When given in Q-code the following sequence of Q signal answer forms is used: QMX, QNY, QAO, QDF, QMI, QFT and QNI.
QBD	How much fuel have you remaining (expressed as hours and/or minutes of consumption) ?	Fuel remaining is...(hours and/or minutes of consumption).
QBE		I am about to wind in my aerial.
QBF	Are you flying in cloud ?	I am flying in cloud at...(figures and units) height above...(datum) and I am descending (ascending) to ...(figures and units) height above that datum.
QBG	Are you flying above cloud ?	I am flying above cloud and at... (figures and units) height above... (datum)  or Maintain a vertical distance of... (figures and units) above cloud, smoke, haze or fog levels.

Question	Information
QBH Are you flying below cloud?	I am flying below cloud and at... (figures and units) height above... (datum) or Maintain a vertical distance of... (figures and units) below cloud.
QBI Is flight under IFR compulsory at...(place) (or from...to...(place)) ?	Flight under IFR is compulsory at...(place) (or from...to...(place))
QBJ What is the amount, type and height above...(datum) of the top of the cloud (at...(position or zone)) ?	At...hours at...(position or zone) the top of the cloud is: amount...eights (...type) at... (figures and units) height above...(datum).
QBK Are you flying with no cloud in your vicinity ?	I am flying with no cloud in my vicinity and at...(figures and units) height above...(datum).
QBL* Am I cleared to leave the local area on...(distance) ...(direction) of...(place)?	You are cleared to leave the local area on...(distance)...(direction) of...(place).
QBM Has...sent any message for me?	Her is the message sent by...at... hours.
QBN Are you flying between two layers of cloud ?	I am flying between two layers of cloud and at...(figures and units) height above...(datum).
QBO What is the nearest aerodrome at which flight under VFR is possible and which would be suitable for my landing ?	Flying under VFR is permissible at...(place) which would be suitable for your landing.
QBP Are you flying in and out of cloud ?	I am flying in and out of cloud and at...(figures and units) height above...(datum).
QBQ	
QBR	
QBS	Ascend (or descend) to...(figures and units) height above...(datum) before encountering instrument meteorological conditions or if visibility falls below...(figures and units of distance) and advise.
QBT How far, along the runway, from the approach end, can the observer at the runway threshold see the runway lights which will be in operation for my landing (at...(place)) ?	At...hours, the observer at the threshold of runway number...could see the runway lights in operation for your landing (at...(place)) for a distance of...(figures and units) from the approach end. NOTE: If the station enquired of is not equipped to make the special observation requested, the reply to QBT? is given by the signal QND.

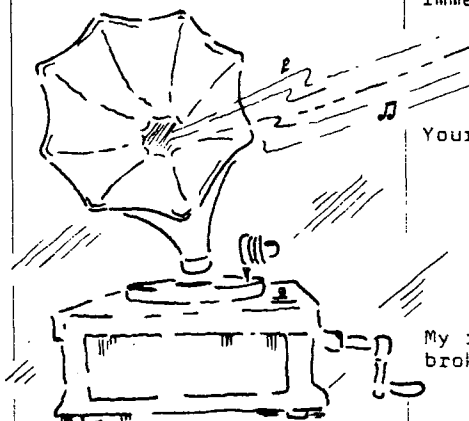


Question	Information
QBU	
QBV Have you reached the... (figures and units) height above...(datum) (or...(area or place))?	I have reached the...(figures and units) height above...(datum) (or...(area of place)). or Report reaching the...(figures and height above...(datum) (or...(area or place)).
QBW* Did you receive message... sent at ...(time) ?	I have received message..., sent at ...(time).
QBX Have you left the... (figures and units) height above...(datum) (or...(area or place)) ?	I have left the...(figures and units ) height above...(datum) (or...(area or place)). or Report leaving the...(figures and units) height above...(datum) (or ...(area or place)).
QBY* What is the height of the most important cloudlayers?	The height of the most important cloudlayers is...
QBZ Report your flying conditions in relation to clouds ?	The reply to QBZ? is given by the appropriate answer form of signals QBF, QBG, QBH, QBK, QBN and QBP.
	
QCA May I change from...(figures and units) to...(figures and units) height above... (datum) ?	You may change from...(figures and units) to...(figures and units) height above...(datum). or I am changing from...(figures and units) to...(figures and units) height above...(datum).
QCB	Delay is being caused by... 1. your transmitting out of turn. 2. your slowness in answering. 3. lack of your reply to my...
QCC	
QCD	
QCE When may I expect approach clearance ?	Expect approach clearance at... hours. or No delay expected.
QCF	Delay indefinite. Expect approach clearance not later than...hours.
QCG	
QCH May I taxi to...(place) ?	Cleared to taxi to...(place). (the place is given in plain language).
QCI	Make a 360-degree turn immediately (turning to the...).

Question

Information

QCJ  
QCK  
QCL  
QCM\*  
QCN  
QCO  
QCP  
QCQ  
QCR  
QCS  
QCT  
QCU  
QCV  
QCW  
QCX



I am making a 360-degree turn immediately (turning to the...).

Your transmission seems defective.

My reception on...frequency has broken down.

What is your full callsign?

My full callsign is...  
or  
Use your full callsign until further notice.

QCY

I am working on trailing aerial.  
or  
Work on trailing aerial.

QCZ\* May I use my abbreviated call sign ?

You may use your abbreviated call sign until further notice.



QDA

QDB Have you sent message... to...?

I have sent message...to...

QDC\*

Message...is sent by landline.

QDD\*

Message...refused by...  
Inform originator.

QDE

QDF What is your D-Value at...(position)?  
or  
What is the D-Value at... (place or position) (at... (hours) for the ...millibar level ?

My D-value at...(position) at... (figures and units) height above the 1013.2 millibars datum is... (D-Value figures and units)... (specify plus or minus).  
or  
The D-Value at...(place or position) at...hours for the...millibar level is...(D/Value figures and

Question	Information
QDG	units...(specify plus or minus). NOTE: When the true altitude (radio altitude) is greater than the pressure altitude PS (plus) is used and when it is less MS (minus) is used.
QDH	Interference is caused by...
QDI	
QDJ	
QDK	
QDL	I intend to ask you for a series of bearings.
QDM	The MAGNETIC heading for you to steer to reach me (or...) with no wind was...degrees (at...hours).
QDN	
QDO*	I will have station...transmit a signal on the watchfrequency (or on...) during 1 minute.
QDP	I will accept control (or responsibility) of (for)...now (or at... hours).
QQQ	
QDR	Your magnetic bearing from me (or from...) was...degrees (at...hours).
QDS	
QDT	I am flying in visual meteorological conditions. or Fly at all times in visual meteorological conditions.
QDU	Cancel my IFR flight plan.
QDV	I am flying in a horizontal visibility of less than...(figures and units) height above...(datum).
QDW	
QDX*	I accepted control and responsibility.
QDY	
QDZ	

Question	Information
QEA May I cross the runway ahead of me ?	You may cross the runway ahead of you.
QEB May I turn at the intersection ?	Taxi as follows at the intersection ....(straight ahead DRT turn left LEFT turn right RITE)
QEC May I make a 180-degree turn and return down the runway ?	You may make a 180-degree turn and return down the runway.
QED Shall I follow the pilot vehicle ?	Follow the pilot vehicle.
QEE	
QEF Have I reached my parking area ? or Have you reached your parking area ?	You have reached your parking area. or I have reached my parking area.
QEG May I leave the parking area ? or Have you left the parking area ?	You may leave the parking area. or I have left the parking area.
QEH May I move to the holding position for runway number ... or Have you moved to the holding position for runway number...?	Cleared to the holding position for runway number... or I have moved to the holding position for runway number...
QEI	
QEJ May I assume position for take-off? or Have you assumed position for take-off ?	Cleared to hold at take-off position for runway number... or I am assuming take-off position for runway number...and am holding.
QEK Are you ready for take-off ?	I am ready for immediate take-off.
QEL May I take-off (and make a ...hand turn after take-off?)	You are cleared to take-off (turn as follows after take-off...).
QEM What is the condition of the landing surface at...(place) ?	The condition of the landing surface at...(place) is... NOTE: The information is given by sending appropriate NOTAM Code groups.
QEN Shall I hold my position ?	Hold your position.
QEO Shall I clear the runway (or landing area)? or Have you cleared the runway (or landing area)?	Clear the runway (or landing area). or I have cleared the runway (or landing area).

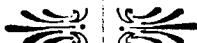
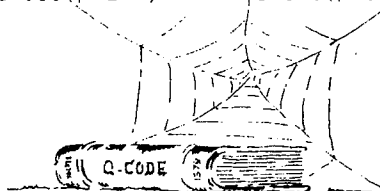
Question

Information

QEP  
 QEQ  
 QER  
 QES  
 QET  
 QEU  
 QEV  
 QEW  
 QEX  
 QEY  
 QEZ

Is a right-hand circuit in force at...(place)?

A right-hand circuit is in force at...(place).



QFA What is the meteorological forecast for...(flight, route, section of route or zone) for the period ...hours until...hours?

The meteorological forecast for... (flight, route, section of route or zone) for the period...hours until...hours is...  
 NOTE: When the forecast is given in Q Code the following sequence of Q signal answer forms is to be given: QAO, QMX, QMI, QNY, QBA, QMW, QFT and QNI.

QFB

The... 1. Approach 2. runway 3. approach and runway lights are out of order.

QFC What is the amount, the type and the height above ...(datum) of the base of the cloud at...(place, position or zone)?

At...(place, position or zone) the base of the cloud is...eights... type at...(figures and units) height above...(datum).  
 NOTE: If several cloud layers or masses are present, the lowest is reported first.

QFD 1. Is the visual beacon (at...(place)) in operation? 2. Will you switch on the ...visual beacon (at...(place))? 3. Will you extinguish the aerodrome visual beacon (at...(place)) until I have landed?

1. The ...visual beacon (at...(place)) is in operation. 2. I will extinguish the aerodrome visual beacon (at...(place)) until your landing is completed.


QFE At...(place) what is the present atmospheric pressure at official aerodrome elevation?

At...(place) the atmospheric pressure at official aerodrome elevation is (or was observed at... hours to be)...millibars.

QFF At...(place) what is the

At...(place) the atmospheric

Question	Information
<p>present atmospheric pressure converted to mean sea level in accordance with meteorological practice ?</p>	<p>pressure converted to mean sea level in accordance with meteorological practice is (or was determined at...hours to be)...millibars</p>
<p>QFG Am I overhead ?</p>	<p>You are overhead.</p>
<p>QFH May I descend below the clouds?</p>	<p>You may descend below the clouds.</p>
<p>QFI Are the aerodrome lights lit ?</p>	<p>The aerodrome lights are lit. or Please light the aerodrome lights.</p>
<p>QFJ</p>	
<p>QFK* Will you give me landings or start and taxi-instructions with lamp signals ?</p>	<p>Watch tower for landings- or start- or taxi-instructions with lamp signals.</p>
<p>QFL* Will you shoot pyrotechnical lights ?</p>	<p>I will shoot pyrotechnical lights.</p>
<p>QFM What height above....(datum) 1. I should maintain ? 2. are you maintaining ? 3. do you intend cruising at ?</p>	<p>....1. Maintain (or fly at)... (figures and units) height above... (datum). 2. I am maintaining... (figures and units) height above... (datum). 3. I intend cruising at... (figures and units) height above... (datum).</p>
<p>QFN</p>	
<p>QFO May I land immediately ?</p>	<p>You may land immediately.</p>
<p>QFP Will you give me the latest information concerning... facility (at...place) ?</p>	<p>The latest information concerning ...facility (at...place) is as follows... NOTE: The information is given by sending appropriate NOTAM code groups.</p>
<p>QFQ Are the approach and runway lights lit ?</p>	<p>The approach and runway lights are lit. or Please light the approach and runway lights.</p>
<p>QFR Does my landing gear appear damaged ?</p>	<p>Your landing gear appears damaged.</p>
<p>QFS Is the ...radio facility at ... (place) in operation ?</p>	<p>The...radio facility at...(place) is in operation (or will be in operation in...hours). or Please have the...radio facility at...(place) put in operation.</p>
<p>QFT Between what heights above ... (datum) has ice formation been observed (at... (position or zone))?</p>	<p>Ice formation has been observed at...(position or zone) in the type of...and with an accretion rate of...between...(figures and units) and...(figures and units) heights above...(datum).</p>

Question	Information
<p>QFU What is the magnetic direction (or number) of the runway to be used ?</p>	<p>The magnetic direction (or number) of the runway to be used is... NOTE: The runway number is indicated by a two-figure group and the magnetic direction by a three-figure group.</p>
<p>QFV Are the floodlights switched on ?</p>	<p>The floodlights are switched on. or Please switch on the floodlights.</p>
<p>QFW What is the length of the runway in use in...(units)?</p>	<p>The length of the runway...now in use is...(figures and units).</p>
<p>QFX</p>	<p>I am working (or am going to work) on a fixed aerial. or Work on a fixed aerial.</p>
<p>QFY Please report the present meteorological landing conditions at...(place)?</p>	<p>The present meteorological landing conditions at...(place) are... NOTE: When given in Q code the information is sent in the following sequence: QAN, QBA, QNY, QBB, QNH, and/or QFE and, if necessary QMU, QNT, QBJ. It is not normally necessary to precede the QAN, QBA, QNY and QBB information by these Q signals but this may be done if considered desirable.</p>
<p>QFZ What is the aerodrome meteorological forecast for ...(place) for the period... until...hours ?</p>	<p>The aerodrome meteorological forecast for...(place) for the period ...hours until...hours is... NOTE: When given in Q code the following sequence of Q signal answer (or advice) forms is to be used: QAN, QBA, QNY, QBB, and, if necessary, QMY, QNT and QBJ.</p>
	
<p>QGA</p>	<p>There are obstructions to the... of runway...</p>
<p>QGB</p>	<p>There are obstructions on your track... (figures and units) height above...(datum).</p>
<p>QGD Are there on my track any obstructions whose elevation equals or exceeds my altitude ?</p>	<p>There are obstructions on your track... (figures and units) height above...(datum).</p>
<p>QGE What is my distance to your station (or to...)?</p>	<p>Your distance to my station (or to ...) is...(distance figures and units). NOTE: This signal is normally used in conjunction with one of the signals QDM, QDR, QTE or QUJ.</p>

Question	Information
QGF	
QGG	
QGH	You may land using...(procedure or facility).
QGI	
QGJ*	Reduce your broadcast to a minimum. I have to work other aircraft.
Q GK	Make a good track from...(place) on...degrees...(true of magnetic).
or What track are you making good ?	or I am making good a track from... (place) on...degrees...(true or magnetic).
QGL	You may enter the...(control area or zone) at...(place).
QGM	Leave the...(control area of zone).
QGN	You are cleared to land (at...(place)).
QGO	Landing is prohibited at...(place).
QGP	You are number...to land.
QGQ	Hold at...(place) at...(figures and units) height above...(datum) and await orders.
QGR*	You may land at...(place) without flying the (left) turn.
QGS	
QGT	Fly for ...minutes on a heading that will enable you to maintain a track reciprocal to your present one.
QGU	Fly for...minutes on a magnetic heading of ...degrees.
QGV	I see you at...(cardinal of quadrantal point of direction).
or Can you see the aerodrome ? or Can you see...(aircraft) ?	or I can see the aerodrome. or I see...(aircraft).
QGW	your landing gear appears to be down and in place.
QGX	
QGY	
QGZ	Hold on ....direction of.... facility.



Question	Information
QHA	
QHB	
QHC	
QHD	
QHE	Will you inform me when you are on...leg of approach ?
	I am on... 1. crosswind leg ) 2. downwind leg ) of approach. 3. base leg ) 4. final leg )
QHF	
QHG	May I enter traffic circuit at...(figures and units) height above...(datum) ?
	Cleared to enter traffic circuit at...(figures and units) height above...(datum).
QHH	Are you making an emergency landing ?
	I am making an emergency landing. or Emergency landing being made at... (place). All aircraft below... (figures and units) height above... (datum) and within a distance of... (figures and units) leave...(place or headings).
QHI	Are you (or is...)... 1. waterborne ? 2. on land ?
	I am (or...is)... 1. waterborne ) at ...hours. 2. on land )
QHJ	
QHK	
QHL	
QHM	
QHN	
QHO	
QHP	
QHQ	May I make a ...approach (at...(place)) ? or Are you making a...approach?
	You may make a ...approach (at... (place)). or I am making a...approach.
QHR	
QHS	
QHT	
QHU	
QHV	
QHW	

Question

Information

QHX

QHY

QHZ

Shall I circle the aerodrome (or go around) ?

Circle the aerodrome (or go around).



QIA

QIB

QIC

May I establish communication with...radio station on ...kHz. (or MHz) now (or at ...hours) ?

Establish communication with...radio station on...kHz. (or MHz) now (or at...hours).

or

I will establish communication with ...radio station on...kHz. (or MHz) now (or at...hours).

QID\*

Is your radio-installation functioning well ?

My radio-installation functions well.

QIE

QIF

What frequency is...using ?

...is using...Khz. (or MHz).

QIG

QIH

QII

QIJ

QIK

QIL

QIM

QIN

QIO

QIP

QIQ

QIR

QIS

QIT

QIU

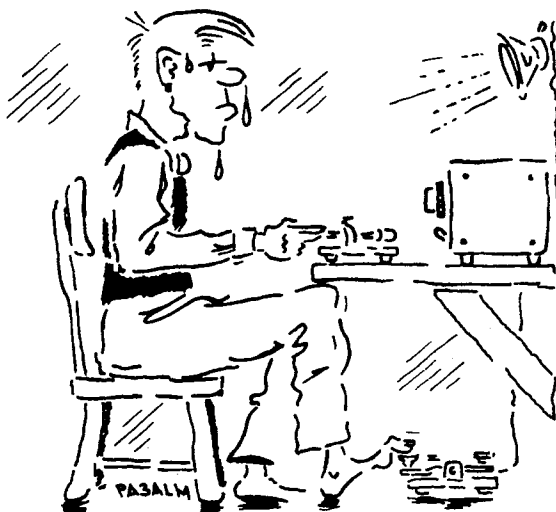
QIV

QIW

QIX

QIY

QIZ



**QLF**

## Question

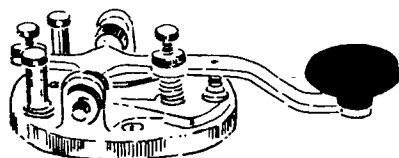
## Information

QJA	Is my... 1. tape) 2. mark and space) reversed?	Your... 1. tape) 2. mark and space) is reversed.
QJB	Will you use... 1. radio ? 2. cable? 3. telegraph ? 4. teletypewriter ? 5. telephone ? 6. receiver ? 7. transmitter ? 8. reperforator ?	I will use... 1. radio. 2. cable. 3. telegraph. 4. teletypewriter. 5. telephone. 6. receiver. 7. transmitter. 8. reperforator.
QJC	Will you check your.... 1. transmitter distributor? 2. auto-head ? 3. perforator ? 4. reperforator ? 5. printer ? 6. printer motor ? 7. keyboard ? 8. antenna system ?	I will check my... 1. transmitter distributor. 2. auto-head. 3. perforator. 4. reperforator. 5. printer. 6. printer motor. 7. keyboard. 8. antenna system.
QJD	Am I transmitting.... 1. in letters ? 2. in figures ?	You are transmitting... 1. in letters. 2. in figures.
QJE	Is my frequency shift... 1. too wide ? 2. too narrow ? 3. correct ?	Your frequency shift is... 1. too wide. 2. too narrow (by...cycles). 3. correct.
QJF		My signal as checked by monitor... is satisfactory... 1. locally. 2. as radiated.
QJG	Shall I revert to automatic relay ?	Revert to automatic relay.
QJH	Shall I run... 1. my test tape ? 2. a test sentence ?	Run... 1. your test tape. 2. a test sentence.
QJI	Will you transmit a continuous.... 1. mark ? 2. space ?	I am transmitting a continuous... 1. mark. 2. space.
QJJ		
QJK	Are you receiving... 1. a continuous mark ? 2. a continuous space ? 3. a mark bias ? 4. a space bias ?	I am receiving... 1. a continuous mark. 2. a continuous space ? 3. a mark bias. 4. a space bias.

Question

Information

QJL  
QJM  
QJN  
QJO  
QJP  
QJQ  
QJR  
QJS  
QJT  
QJU  
QJV  
QJW  
QJX  
QJY  
QJZ



QKA  
QKB  
QKC

The sea conditions (at...position)..  
1. permit alighting but not take-off.  
2. render alighting extremely hazardous.

QKD  
QKE

QKF May I be relieved (at... hours) ?

You may expect to be relieved at... hours (by...1. aircraft...(identification) (type...). 2. vessel whose call sign is...(call sign) (and/or whose name (is...(name))).

QKG Will relief take place when...(identification) establishes...  
1. visual ?  
2. communications, contact with survivors !



Relief will take place when... (identification) establishes...  
1. visual.  
2. communications, contact with survivors.

QKH Report details of the parallel sweep (track) search being (or to be) conducted ?  
or  
In the parallel sweep (track search being (or to

The parallel sweep (track) search is being (or to be) conducted...

Question	Information
be) conducted, what is (are) ... 1. the direction of sweeps. 2. the separation between 3. the height above the datum, employed in the search pattern ?	1. with direction of sweeps... degrees...(true or magnetic). 2. with...(distance figures and units) separation between sweeps 3. at a height of...(figures) above...(datum).
QKI QKJ QKK QKL QKM QKN	Aircraft plotted (believed to be you) in position...on track... degrees at...hours.
QKC What other units are (or will be) taking part in the operation (...(identification of operation)) ?	In the operation (...(identification)), the following units are (or will be) taking part...(name of units).  or ...(name) unit is taking part in operation (...(identification)) (with effect from...hours).
QKP Which pattern of search is being followed ?	The search pattern is... 1. parallel sweep. 2. square search. 3. creeping line ahead. 4. track crawl. 5. contour search. 6. combined search by aircraft and ship. 7. ...(specify).
QKQ QKR QKS QKT QKU QKV QKW QKX QKY QKZ	
QLA	



Question	Information
QLB Will you monitor ...station and report regarding range, quality, etc.?	I have monitored...station and report (briefly) as follows...
QLC	
QLD	
QLE	
QLF* Are you using left foot ?	Use left foot.
QLG	
QLH Will you use simultaneous keying on...frequency and ...frequency ?	I will now key simultaneously on... frequency and...frequency.
QLI	
QLJ	
QLK	
QLL	
QLM	
QLN	
QLO	
QLP	
QLQ	
QLR	
QLS	
QLT	
QLU	
QLV Is the...radio facility still required ?	The ...radio facility is still required.
QLW	
QLX	
QLY	
QLZ	
 	
QMA	
QMB	
QMC	
QMD	
QME	
QMF	
QMG	

Question	Information
QMH	Shift to transmit and receive on ...kHz (or MHz); if communication is not established within 5 minutes revert to present frequency.
QMI	Report the vertical distribution of cloud (at... (position of zone)) as observed from your aircraft. The vertical distribution of cloud as observed from my aircraft at... hours at...(position or zone) is: lowest layer observed...eights ...type) with base of...(figures and units) and tops of...(figures and units) (and similarly in sequence for each of the layers observed) height above...(datum). Example: =QMI 1400 11 2 CU 1000 FT 2500 FT 6 SC 6000 FT 10000FT 5 AC 13000 FT 14000 FT ALT=
QMJ	
QMK	
QML	
QMM	
QMN	
QMO	
QMP	
QMQ	
QMR	
QMS	
QMT	
QMU	What is the surface temperature at...(place) and what is the dew point temperature at that place ? The surface temperature at... (place) at...hours is ...degrees and the dew point temperature at that place is...degrees.
QMV	
QMW	At...(position and zone) what is (are) the height(s) above...(datum) of the zero celsius isotherm ? At ...(position and zone) the zero celsius isotherm(s) is (are) at... (figures and units) height(s) above...(datum).
QMX	What is the air temperature (at...(position of zone)) (at...hours) at the... (figures and units) height above...(datum) ? At...(position or zone) at...hours the air temperature is...(degrees and units) at...(figures and units) height above...(datum). NOTE: Aircraft reporting QMX information will transmit the temperature figures as corrected for airspeed.
QMY	
QMZ	Have you any amendments to the flight forecast in The following amendment(s) should be made to the flight forecast...

Question

Information

respect of section of route yet to be traversed ? (If no amendments, signal QMZ NIL).



QNA+		Answer in prearranged order.
QNB+	Shall I act as relay ?	Act as relay between...and...
QNC+		Here is a message for all stations
QND+	Is this net directed ?	This net is directed.
QNE	What indication will my altimeter give on landing at...(place) at...hours, my sub-scale being set to 1013.2 millibars (29.95 inches) ?	On landing at...(place) at...hours, with your sub-scale being set to 1013,2 millibars (29.92 inches), your altimeter will indicate... (figures and units).
QNF+		This net is not directed.
QNG+	Shall I take over netcontrol?	Take over netcontrol.
QNH	What should I set on the sub-scale of my altimeter so that the instrument would indicate my elevation if I were on the ground at your station ?	If you set the sub-scale of your altimeter to read...millibars (or hundredths of an inch), the instrument would indicate your elevation if you were on the ground at my station at...hours. NOTE: When the setting is given in hundredths of an inch the abbreviation "INS" is used to identify the units.
QNI	Between what heights above...(datum) has turbulence been observed at... (position or zone) ?	Turbulence has been observed at... (position or zone) with an intensity of...between...(figures and units and...(figures and units) heights above...(datum).
QNJ		
QNK		
QNL+		Your frequency is low (by...kHz)
QNM		
QNN+	What station is netcontrol?	Net control station is...
QNO		I am not equipped to give the information (or provide the facility) requested.
QNP		
QNQ		
QNR		I am approaching my point of no return.
QNS+		Following stations participate.
QNT	What is the maximum gust	The maximum gust speed of the



Question

Information

	speed of the surface wind at...(place) ?	surface wind at...(place) at... hours is...(speed figures and units).
QNU		
QNV		
QNW		
QNX	May I leave netfrequency ?	You may leave netfrequency.
QNY	What is the present weather and the intensity thereof at...(place, position or zone) ?	<p>The present weather and intensity thereof at...(place, position or zone) at...hours is....</p> <p>NOTE A: When present weather information is transmitted by a ground station, the information shall be selected from the present weather table (Table III) in PANSMET (Doc 7605-MET/526). If none of these conditions prevail the reply shall be QNY NIL.</p> <p>NOTE B: When present weather information is transmitted by an aircraft, the information shall be selected from Item II, AIREP. If none of these conditions prevail the reply shall be QNY NIL or alternatively the appropriate answer (or advice) form of signals QBF, QBG, QBH, QBK, QBN or QBP. The alternative may also be given in addition to present weather conditions when one or more of the conditions listed in Item II prevail.</p>
QNZ		
QQA		
QQB		
QQC		
QQD		
QQE		
QQF		
QQG		
QQH		
QQI		
QQJ		
QQK		
QQL		
QQM		
QQN		



Question

Information

QOO  
 QOP  
 QQQ  
 QOR  
 QOS  
 QOT  
 QOU  
 QOV  
 QOW  
 QOX  
 QOY  
 QOZ



QPA  
 QPB  
 QPC  
 QPD  
 QPE  
 QPF  
 QPG  
 QPH  
 QPI  
 QPJ  
 QPK  
 QPL  
 QPM  
 QPN  
 QPO  
 QPP  
 QPQ  
 QPR  
 QPS  
 QPT  
 QPU  
 QPV  
 QPW  
 QPX



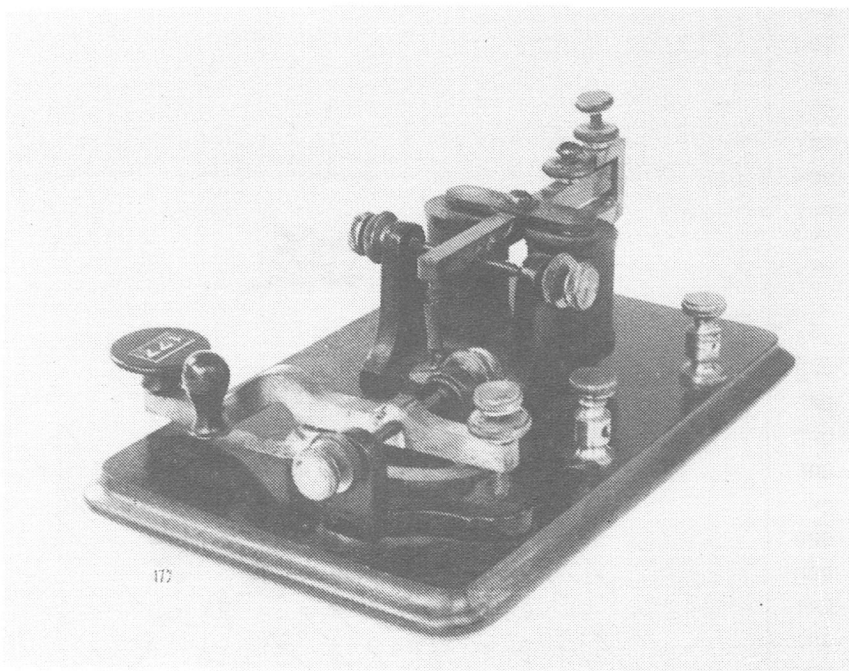
**QEN**

Question

Information

QPY  
QPZ

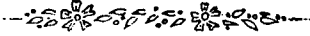
QQA  
QQB  
QQC  
QQD  
QQE  
QQF  
QQG  
QQH  
QQI  
QQJ  
QQK  
QQL  
QQM  
QQN  
QQO  
QQP  
QQQ  
QQR  
QQS  
QQT  
QQU  
QQV  
QQW  
QQX  
QQY  
QQZ



QRA What is the name of your station ?  
QRB How far approximately are you from my station ?  
QRC By what private enterprise (or State administration)

The name of my station is...  
The approximate distance between our stations is...nautical miles (or...kilometers).  
The accounts for charges of my station are settled by the private

Question	Information
	enterprise...(or State administration).
QRD Where are you bound and where are you from?	I am bound for...from...
QRE What is your estimated time of arrival at...(or over...)(place) ?	My estimated time of arrival at...(or over...)(place) is...hours.
QRF Are you returning to...(place) ?	I am returning to...(place). or Return to...(place).
QRG Will you tell me my exact frequency (or that of...)?	Your exact frequency (or that of...) is ...Kcs (or mcs).
QRH Does my frequency vary ?	Your frequency varies.
QRI How is the tone of my transmission ?	The tone of your transmission is... 1. good. 2. variable. 3. bad.
QRJ How many radiotelephone calls have you to book ?	I have...radiotelephone calls to book.
QRK What is the intelligibility of my signals (or those of...)?	The intelligibility of your signals (or those of...) is... 1. bad. 2. poor. 3. fair. 4. good. 5. excellent.
QRL Are you busy ?	I am busy (or I am busy with...). Please do not interfere.
QRM Are you being interfered ?	I am being interfered with 1. nil. 2. slightly. 3. moderately. 4. severely. 5. extremely.
QRN Are you troubled by static ?	I am troubled by static 1. nil. 2. slightly. 3. moderately. 4. severely. 5. extremely.
QRD Shall I increase transmitter power ?	Increase transmitter power.
QRP Shall I decrease transmitter power ?	Decrease transmitter power.
QRQ Shall I send faster ?	Send faster (or..words per minute).
QRR Are you ready for automatic operation ?	I am ready for automatic operation. Send at...words per minute.
QRS Shall I send more slowly ?	Send more slowly (...words per minute).

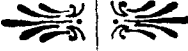
Question	Information
QRT Shall I stop sending ?	Stop sending.
QRU Have you anything for me ?	I have nothing for you.
QRV Are you ready ?	I am ready.
QRW Shall I inform...that you are calling him on...kHz (or MHz).?	Please inform...that I am calling him on...kHz (or MHz).
QRX When will you call me again?	I will call you again at...hours (on...kHz (or MHz)).
QRY What is my turn ? (relates to communication)	Your turn is number....(or according to any other indication). (Relates to communication).
QRZ Who is calling me ?	You are being called by...(on... kHz (or MHz)).
	
QSA What is the strength of my signals ?	The strength of your signals (or those of...) is... 1. scarcely perceptible. 2. weak. 3. fairly good. 4. good. 5. very good.
QSB Are my signals fading ?	Your signals are fading.
QSC Are you a cargo vessel ?	I am a cargo vessel.
QSD Is my keying defective ?	Your keying is defective.
QSE What is the estimated drift of the survival craft ?	The estimated drift of the survival craft is...(figures and units).
QSF Have you effected rescue ?	I have effected rescue and am proceeding to...base (with...persons injured requiring ambulance).
QSG Shall I send...telegrams at a time ?	Send...telegrams at a time.
QSH Are you able to home on your D/F equipment ?	I am able to home on my D/F equipment (on....station).
QSI	I have been unable to break in on your transmission. or Will you inform...(call sign) that I have been unable to break in on his transmission (on...kHz (or MHz)).
QSJ What is the charge to be collected to...including your internal telegraph charge ?	The charge to be collected to... including my internal telegraph charge is...francs.
QSK Can you hear me between your signals and if so can	I can hear you between my signals; break in on my transmission.

## Question

## Information

	I break in on your transmission.	
QSL	Can you acknowledge receipt?	I am acknowledging receipt.
QSM	Shall I repeat the last telegram which I sent you (or some previous telegram)?	Repeat the last telegram which you sent me (or telegram(s) number(s) ....)
QSN	Did you hear me (or...(call sign)) on...kHz (or MHz)?	I did hear you (or...(call sign)) on...kHz (or MHz).
QSD	Can you communicate with... direct or by relay ?	I can communicate with...direct (or by relay through...).
QSP	Will you relay to...free of charge?	I will relay to...free of charge.
QSQ	Have you a doctor on board (or is...(name of person) on board)?	I have a doctor on board (or...(name of person) is on board).
QSR	Shall I repeat the call on the calling frequency ?	Repeat your call on the calling frequency; did not hear you (or have interference).
QSS	What working frequency will you use ?	I will use the working frequency... kHz (normally only the last three figures of the frequency need be given).
QST*	Is there any message for radio-hams ?	Here follows message for radio-hams.
QSU	Shall I send or reply on this frequency (or on...kHz (or MHz)) (with emissions of class...)?	Send or reply on this frequency (or on...kHz) (or MHz)) (with emissions of class...).
QSV	Shall I send a series of V's on this frequency (or ...kHz (or MHz)),?	Send a series of V's on this frequency (or on...kHz (or MHz)).
QSW	Will you send on this frequency (or on...kHz (or MHz)) (with emissions of class...)?	I am going to send on this frequency (or on...kHz (or MHz)) (with emissions of class...).
QSX	Will you listen to... (call signs) on... kHz (or MHz) ?	I am listening to ...(call signs) on...kHz (or MHz).
QSY	Shall I change to transmission on another frequency ?	Change to transmission on another frequency (or on...kHz (or MHz)).
QSZ	Shall I send each word or group more than once ?	Send each word or group twice (or ...times).
QTA	Shall I cancel telegram number...?	Cancel telegram number...

Question	Information
QTE Do you agree with my counting of words ?	I do not agree with your counting of words; I will repeat the first letter or digit of each word or group.
QTC How many telegrams have you to send ?	I have...telegrams for you (or for...).
QTD What has the rescue vessel or rescue aircraft recovered ?	...(identification) has recovered... 1. ...(number) survivors. 2. wreckage. 3. ...(number) bodies.
QTE What is my TRUE bearing from you ?	Your TRUE bearing from me is... degrees (at...hours).
or What is my TRUE bearing from ...(callsign) ?	or Your TRUE bearing from...(callsign) was...degrees (at...hours).
or What is the TRUE bearing of...(call sign) from...(callsign) ?	or The TRUE bearing of...(callsign) from...(callsign) was...degrees at...hours.
QTF Will you give me the position of my station according to the bearings taken by the D/F stations which you control ?	The position of your station according to the bearings taken by the D/F stations which I control was...latitude...longitude (or other indication of position), class...at...hours.
QTG Will you send two dashes of ten seconds each followed by your call sign (repeated ...times) (on...kHz (or MHz)	I am going to send two dashes of ten seconds each followed by my call sign (repeated...times) (on ...kHz (or MHz)).
or Will you request...to send two dashes of ten seconds followed by his call sign (repeated...times) on...kHz (or MHz) ?	or I have requested...to send two dashes of ten seconds followed by his call sign (repeated...times) on...kHz (or MHz).
QTH What is your position in latitude and longitude (or according to any other indication) ?	My position is...latitude... longitude (or according to any other indication).
QTI What is your TRUE track ?	My TRUE track is...degrees.
QTJ What is your speed ? (Requests the speed of a ship or aircraft through the water or air respectively	My speed is...knots (or...kilometers or...statute miles per hour). (Indicates the speed of a ship or aircraft through the water or air respectively.
QTK What is the speed of your aircraft in relation to the surface of the earth ?	The speed of my aircraft in relation to the surface of the earth is...knots (or...kilometers or...statute miles per hour).
QTL What is your TRUE heading ?	My TRUE heading is...degrees.
QTM What is your MAGNETIC heading ?	My MAGNETIC heading is...degrees.

Question	Information
QTN At what time did you depart from...(place) ?	I departed from...(place) at... hours.
QTO Are you airborne ? or Have you left dock (or port)?	I am airborne. or I have left dock (or port).
QTP Are you going to alight (or land) ? or Are you going to enter dock (or port) ?	I am going to alight (or land). or I am going to enter dock (or port).
QTT Can you communicate with my station by means of the international code of signals ?	I am going to communicate with your station by means of the international code of signals.
QTR What is the correct time ?	The correct time is...hours.
QTS Will you send your callsign for tuning purposes or so that your frequency can be measured now (or at... hours) on...kHz (or MHz) ?	I will send my call sign for tuning purposes or so that my frequency may be measured now (or at...hours) on...kHz (or MHz).
QTT	The identification signal which follows is superimposed on another transmission.
QTU What are the hours during which your station is open ?	My station is open from...to... hours.
QTV Shall I stand guard for you on the frequency of... kHz (or MHz) (from...to ...hours) ?	Stand guard for me on the frequency of...kHz (or MHz) (from...to... hours) .
QTW What is the condition of survivors ?	Survivors are in...condition and urgently need...
QTX Will you keep your station open for further communication with me until further notice (or until...hours) ?	I will keep my station open for further communication with you until further notice (or until... hours).
QTY Are you proceeding to the position of incident and if so when do you expect to arrive ?	I am proceeding to the position of incident and expect to arrive at... hours (on...date).
QTZ Are you continuing the search ?	I am continuing the search for... (aircraft, ship, survival craft, survivors or wreckage).
	
QUA Have you news of... (call sign) ?	Here is news of...(call sign).
QUB Can you give me in the following order information	Here is the information requested ...



Question

Information

	concerning: the direction in degrees TRUE and speed of the surface wind; visibility; present weather; and amount, type and height of base of cloud above surface elevation at... (place of observation) ?	(The units used for speed and distances should be indicated).
QUC	What is the number (or other indication) of the last message you received from me (or from...(call sign))?	The number (or other indication) of the last message I received from you (or from...(call sign)) is...
QUO	Have you received the urgency signal sent by... (call sign of mobile station) ?	I have received the urgency signal sent by...(call sign of mobile station) at...hours.
QUE	Can you use telephony in... (language), with interpreter if necessary; if so, on what frequencies ?	I can use telephony in...(language) on...kHz (or MHz).
QUF	Have you received the distress signal sent by... (call sign of mobile station) ?	I have received the distress signal sent by...(call sign of mobile station) at ...hours.
QUG	Will you be forced to alight (or land) ?	I am forced to alight (or land) immediately. or I will be forced to alight (or land) at...(position or place) at ...hours.
QUH	Will you give me the present barometric pressure at sea level ? NOTE: Stations of the international telecommunication service will interpret this signal as: What is the present atmospheric pressure at the present water level?	The present barometric pressure at sea level is...(units). NOTE: Stations of the international aeronautical telecommunication service will interpret this signal as: The present atmospheric pressure at the present water level at...(place of position) at ...hours is...(figures and units).
QUI	Are your navigation lights working ?	My navigation lights are working.
QUJ	Will you indicate the TRUE track to reach you (or...)?	The TRUE track to reach me (or...) is...degrees at...hours.
QUK	Can you tell me the condition of the sea observed at...(place or co-ordinate)?	The sea at...(place or co-ordinate) is...

AERONAUTICAL NOTE: Stations of the international aeronautical telecommunication service will complete the information form by the use of a numbered alternative as given hereafter, selected according to the average wave height as obtained from the larger wellformed waves of the wave system being observed. If observed height coincides with one of the limits, report the lower numbered

Question

Information

alternative, e.g. waves with a mean maximum height of 4 meters are to be reported as "5".

Number		Height	
		Meters	Feet (approx.)
0	Calm-glassy	0	0
1	Calm-rippled	0-0.1	0-1/3
2	Smooth wavelets	0.1-0.5	1/3-1 2/3
3	Slight	0.5-1.25	1 2/3-4
4	Moderate	1.25-2.5	4-8
5	Rough	2.5-4	8-13
6	Very rough	4-6	13-20
7	High	6-9	20-30
8	Very high	9-14	30-45
9	Phenomenal	Over 14	Over 45

QUL | Can you tell me the swell observed at...(place or co-ordinates) ? | The swell at...(place or co-ordinates) is...

AERONAUTICAL NOTE: Stations of the international aeronautical tele-communication service will complete the answer (information) form by the use of the following numbered alternatives:

Number	Length of Swell	Height	Number	Length of Swell	Height
0	-	-	5	Long	Moderate
1	Short or average	Low	6	Short	Heavy
2	Long	Low	7	Average	Heavy
3	Short	Moderate	8	Long	Heavy
4	Average	Moderate	9	Confused	-

Additionally, stations of the international aeronautical tele-communication service may indicate the direction of swell by the use of the appropriate cardinal or quadrantal point abbreviation N, NE, E, SE, etc. following the numbered alternate for indicating swell condition. The descriptions in the above numbered alternatives are as follows:

		Length of Swell	
		Meters	Feet (approx.)
Short	=	0-100	0-300
Average	=	100-200	300-600
Long	=	Over 200	Over 600

		Height of Swell	
		Meters	Feet (Approx.)
Low	=	0-2	0-7
Moderate	=	2-4	7-13
Heavy	=	Over 4	Over 13

When there is no swell, the numbered alternative "0" is used; when the swell is such that the length and height of the swell waves cannot be determined, the numbered alternative "9" is used.

QUM | May I resume normal working? | Normal working may be resumed.

QUN | Will vessels in my immediate vicinity (or in the vicinity of...latitude... longitude (or of...)) please indicate their position, TRUE course and speed are... | My position, TRUE course and speed are...

Question

Information

speed ?

AERONAUTICAL NOTES:

- a. All stations of the international aeronautical telecommunication service will interpret this signal (in part) as referring to TRUE TRACK.
- b. English-speaking stations of the maritime mobile service will interpret this signal (in part) as referring to TRUE HEADING. When communication with such stations it is recommended that supplementary use be made of the signal QTI. to avoid any misunderstanding.

QUO	Shall I search for... 1. aircraft, 2. ship, 3. survival craft, in the vicinity of... latitude...longitude (or according to any other indication) ?	Please search for... 1. aircraft, 2. ship, 3. survival craft, in the vicinity of...latitude... longitude (or according to any other indication).
QUP	Will you indicate your position by... 1. searchlight ? 2. black smoke trail ? 3. pyrotechnic lights ?	My position is indicated by... 1. searchlight. 2. black smoke trail. 3. pyrotechnic lights.
QUQ	Shall I train my searchlight nearly vertical on a cloud, occulting if possible and, if your aircraft is seen or heard, deflect the beam up wind and on the water (or land) to facilitate your landing.	Please train your searchlight on a cloud, occulting if possible and, if my aircraft is seen or heard, deflect the beam up wind and on the water (or land) to facilitate my landing.
QUR	Have survivors.... 1. received survival equipment ? 2. been picked up by rescue vessel ? 3. been reached by ground rescue party ?	Survivors.... 1. are in possession of survival equipment dropped by... 2. have been picked up by rescue vessel. 3. have been reached by ground rescue party.
QUS	Have you sighted survivors or wreckage ? If so, in what position ?	Have sighted... 1. survivors in water, 2. survivors on rafts, 3. wreckage, in position...latitude...longitude (or according to any other indi- cation).
QUT	Is position of incident marked ?	Position of incident is marked by.. 1. flame or smoke afloat. 2. sea marker. 3. sea marker dye. 4. ...(specify other marking).
QUU	Shall I home ship or air- craft to my position ?	Home ship or aircraft...(call sign) ... 1. to your position by transmitting

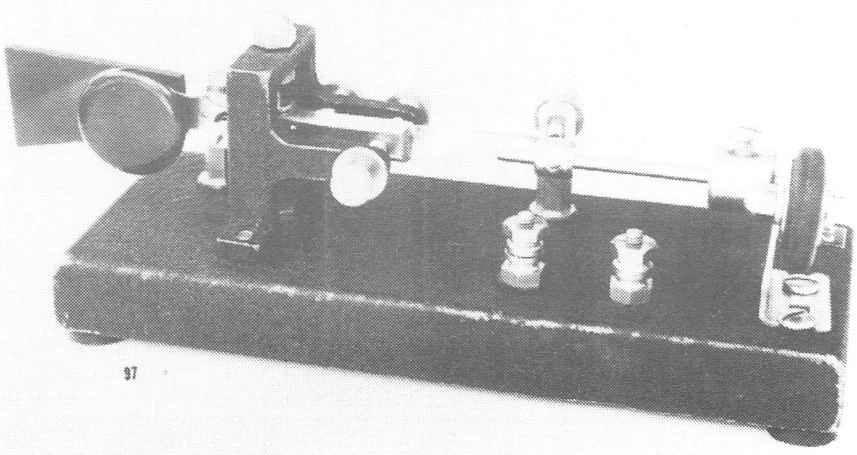
Question

Information

		your call sign and long dashes on ... kHz (or MHz). 2. by transmitting on...kHz (or MHz) TRUE track to reach you.
*QUV	What is my MAGNETIC bearing to reach you (or...)?	Your MAGNETIC bearing to reach me (or...) was...degrees at...(time).
QUW	Are you in the search area designated as...(designator or latitude and longitude) ?	I am in the...(designation) search area.
*QUX	Will you give the MAGNETIC heading to steer to you (or...) with no wind ?	Your MAGNETIC heading to steer to me (or...) with no wind is ... degrees at...(time).
QUY	Is position of survival craft marked ?	Position of survival craft was marked at...hours by... 1. flame or smoke float. 2. sea marker. 3. sea marker dye. 4. ...(specify other marking).
QUZ		



- QVA
- QVB
- QVC
- QVD
- QVE
- QVF
- QVG
- QVH
- QVI
- QVJ
- QVK
- QVL
- QVM
- QVN
- QVO
- QVP
- QVQ
- QVR
- QVS
- QVT



Question

Information

QVU  
QVW  
QVX  
QVY  
QVZ



QWA  
QWB  
QWC  
QWD  
QWE  
QWF  
QWG  
QWH  
QWI  
QWJ  
QWK  
QWL  
QWM  
QWN  
QWO  
QWP  
QWQ  
QWR  
QWS  
QWT  
QWU  
QWV  
QWU  
QWX  
QWY  
QWZ



**QAP**

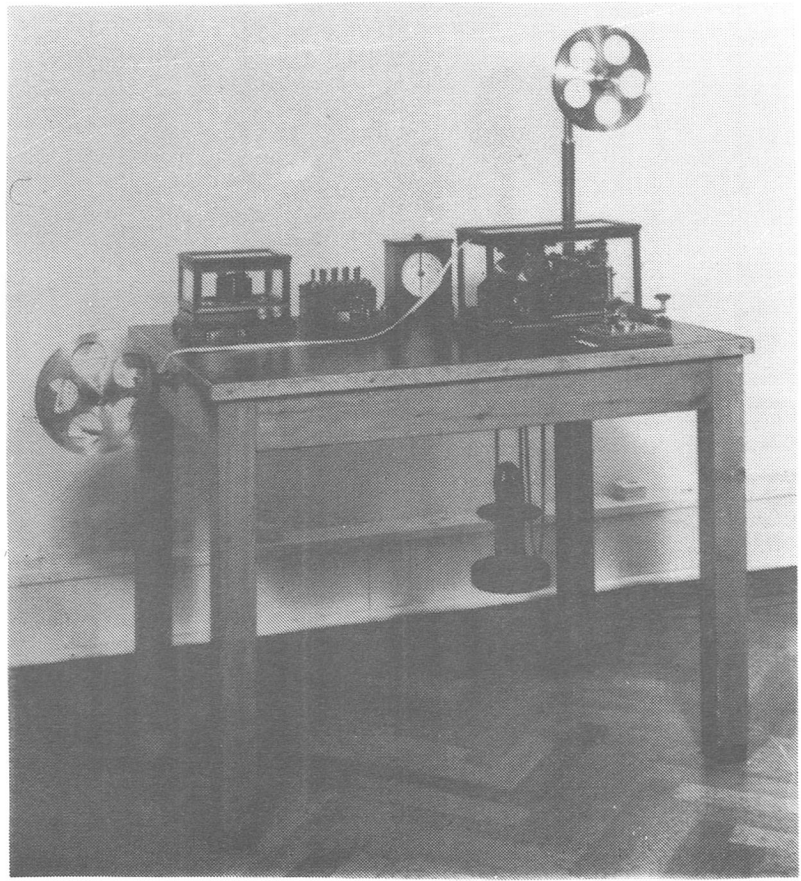


QXA  
QXB  
QXC

Question

Information

QXD  
QXE  
QXF  
QXG  
QXH  
QXI  
QXJ  
QXK  
QXL  
QXM  
QXN  
QXD  
QXP  
QXQ  
QXR  
QXS  
QXT  
QXU  
QXV  
QXW  
QXX  
QXY  
QXZ



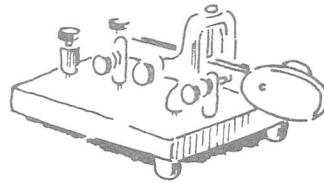
QYA  
QYB  
QYC  
QYD  
QYE  
QYF  
QYG  
QYH  
QYI  
QYJ  
QYK  
QYL  
QYM

Question

Information

QYN  
QYO  
QYP  
QYQ  
QYR  
QYS  
QYT  
QYU  
QYV  
QYW  
QYX  
QYY  
QYZ

QZA  
QZB  
QZC  
QZD  
QZE  
QZF  
QZG  
QZH  
QZI  
QZJ  
QZK  
QZL  
QZM  
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QZP  
QZQ  
QZR  
QZS  
QZT  
QZU  
QZV  
QZW



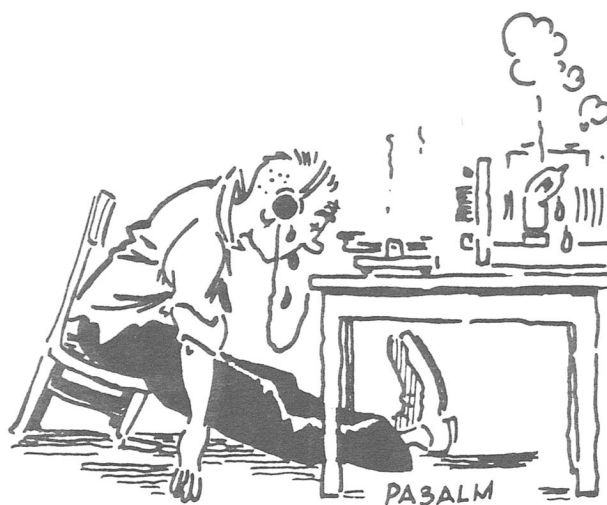
Question

Information

QZX  
QZY  
QZZ

The series QVA - QZZ inclusive have not been allocated to date.

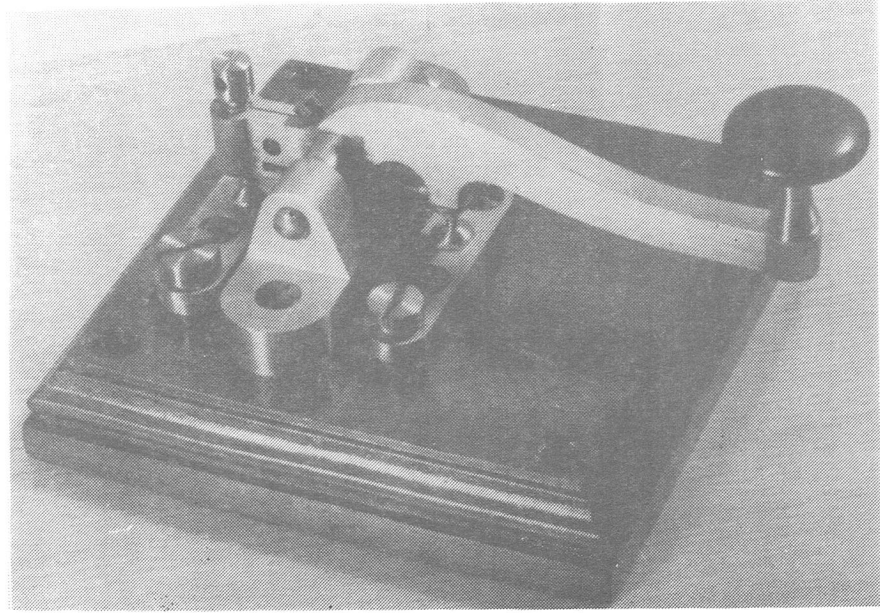
Bergen op Zoom - Maassluis,  
15 september 1986.



QRS



Morsum Magnificat





ZGY 12

Z-CODES are generally arranged as follows;

- |   |                 |
|---|-----------------|
| 1. Air- (Sea) traffic control             | ZSA-ZSZ         |
| 2. Take off and landing                   | ZQA-ZQZ         |
| 3. Radionavigation and landingsfacilities | ZLN-ZLZ         |
| 4. Meteorology                            | ZUN-ZUZ         |
| 5. Direction finding                      | ZMA-ZMZ         |
| 6. Search and rescue                      | ZPN-ZPZ         |
| 7. Communication security                 | ZNA-ZNZ         |
| 8. Strength and readability               | ZPA-ZPM         |
| 9. Various                                | ZUA-ZUM         |
| 10. Frequencies                           | ZRA-ZRZ         |
| 11. Interference and delay                | ZHA-ZHM         |
| 12. Calling                               | ZGA-ZGZ         |
| 13. Traffic                               | ZAA-ZCZ         |
| 14. Radio guard                           | ZUA-ZKZ         |
| 15. Messages                              | ZDA-ZFZ         |
| 16. Serial numbers                        | ZIA-ZIZ         |
| 17. Relay                                 | ZDA-ZOM ZVA-ZVZ |
| 18. Routing                               | ZON-ZOZ         |
| 19. Equipment                             | ZTA-ZTZ         |
| 20. Automatic transmissions               | ZHN-ZHZ         |
| 21. Facsimile                             | ZLA-ZLM         |
| 22. Optical                               | ZJA-ZJZ         |
| 23. Communication exercises               | ZWA-ZWZ ZZA-ZZZ |

Question	Information
ZAA	You are not observing proper circuit discipline.
ZAB	Your speedkey is improperly adjusted.
ZAC	Cease using speedkey.
ZAD	Your operating signal (made at...) received as... (1. Not understood; 2. Not held).
ZAE	I am unable to receive you. Receipt through...
ZAF	Will you patch me through to... (via you or...) ?
ZAG	I am about to patch you through to... (via...).
ZAH	Break...(1. Go ahead with next tape 2. Go back...feet; 3. Advance your key tape to reference mark number and repeat last transmission (or transmission...).
ZAI	Unable to relay message... in present form (1. Not in prescribed format; 2. Format lines...incorrect 3. No on-line facility available; 4. Call signs not encrypted; 5. Text not encrypted). We file. Transmit correctly prepared message to all addressees (or to...).
ZAJ	Run...(1. Caller; 2. Test tape; 3. Synchronizing tape; 4. Traffic tape; 5. Marking signals; 6. Spacing signals; 7. Reversals; 8. Run teletypewriter space bar signals; 9. Datel test at...bd).
ZAK	I have been unable to break you.
ZAL	Transmission on...kHz (or MHz) suspended until...(or was suspended at ...) on account of electrical hazards (or...).
ZAM	I am closing down (until...) due to ...
ZAN	I am unable to obtain reply from teleprinter switchboard...(for connection to...). Request you call him (or other intermediate switchboard) for me.
ZAO	Transmit only messages of and above precedence...
	I cannot understand your speech. Use radiotelegraph.

Question	Information	
ZAP	Shall I work...(1. Simplex; 2. Duplex; 3. Diplex; 4. Multiplex; 5. Single Sideband; 6. With automatic error correction system; 7. Without automatic error correction system; 8. With time and frequency diversity modem). ?	Work...(1. Simplex 2; Duplex 3. Diplex; 4. Multiplex; 5. Single Sideband; 6. With automatic error correction system; 7. Without automatic error correction system; 8. With time and frequency diversity modem).
ZAQ		The last word (or group)... (1. Received from you was...; 2. Transmitted to you was...).
ZAR		This is my ...request (or reply). (1. First; 2. Second; 3. Third; etc.).
ZAS		Rerun all tapes run on...since... (1. Your present frequency; 2. ... kHz (or MHz); 3. Call sign...; 4. This channel or...channel).
ZAT		Am preparing traffic (perforating tape) for transmission.
ZAU	What is teletype range taken on my signal(s) ?	Teletype range taken on your signal(s) is...to...
ZAV		Transmit traffic for me (or for...) by broadcast method until further directed (or until...).
ZAW	Shall I transmit 12 inches of blank tape at short intervals at... words per minute ?	Transmit 12 inches of blank tape at short intervals at...words per minute.
ZAX		You are...(1. Causing interference. Listen before sending; 2. Causing interference by inattention to order to wait; 3. Sending at the same time as...(call sign); 4. Causing delay by slowness in answering. 5. Causing delay by slowness in answering my service or procedure messages; 6. Answering out of turn).
ZAY		Transmit traffic to me (or to... on...kHz (or MHz)) without waiting for receipts. I (or...) will receipt for traffic later (on... kHz(or MHz)).
ZAZ		One or more transmitters, simultaneously keying on this broadcast, are defective but transmission will continue on remaining transmitters. Traffic so transmitted will be repeated when full service is restored.

Question	Information
ZBA What is cause of delay (or of bad transmission) ?	Delay (or bad transmission) due to ...
ZBB	For following message you will require a total of... copies.
ZBC	You are transmitting a continuous ... (1. Mark; 2. Space).
ZBD Will you repeat what you (or...) sent (at...) ?	Following is what I (or...) sent (at...).
ZBE	Retransmit message...to...(for...) (1. Action; 2. Information).
ZBF	For following message use large message forms.
ZBG	You are transmitting in upper case.
ZBH	Make preliminary call before transmitting traffic.
ZBI	Listen for radiotelephony.
ZBJ	
ZBK Are you receiving my traffic clear ?	I am receiving your traffic... (1. Clear; 2. Garbled).
ZBL	I am unable to receive you while I am transmitting. Do not use break-in-procedure.
ZBM	Place...on watch on this frequency. (1. A qualified speedkey operator; 2. A competent operator).
ZBN	Your...is reversed. (1. Tape; 2. Mark and space).
ZBO Of what precedences ?	I have (or...has)...(numeral followed by precedence prosign for each pre-precedence) message(s) for you (or for...).
ZBP	Your...(1. Characters are indistinct; 2. Spacing is bad).
ZBQ When and on what frequency was message...received ?	Message...was received at...on... kHz (or MHz).
ZBR Shall I send by... (1. Direct (R) method; 2. Broadcast (F) method; 3. Intercept (I) method; 4. Repeat back (G) method) ?	Send by...(1. Direct (R) method; 2. Broadcast (F) method; 3. Intercept (I) method; 4. Repeat back (G) method).
ZBS	Your...(1. Dots are too heavy; 2. Dots are too light; 3. Dots are varying in bias; 4. Dots spacing is bad; 5. Dots are missing; 6. Dots are burring).

Question

Information

ZBT How do you count following text groups....?

Text group(s)...should be counted as...groups.

ZBU

Report when you are in radiocommunication with....

ZBV

Answer me (or...) on ...kHz (or MHz).

ZBW Will you shift (or ask... to shift) to transmit on ...kHz (or MHz) ?

I am (or...is) shifting to transmit on ...kHz (or MHz).

ZBY

Pass...(1. On broadcast...; 2. On broadcast...single operator; 3. On broadcast...two operator period; 4. On Broadcast...general periods only).

ZBZ What is the printing acceptability of my signals (or those of...)?

The printing acceptability of your signals (or those of...) is ...  
 1. Unacceptable - totally corrupt;  
 2. Unacceptable - very corrupt;  
 3. Unacceptable - partly corrupt;  
 4. Acceptable - now and then corrupt; 5. Acceptable - no corruption.



ZCA

Satellite(s) is/are pre-empted from .....Z to .....Z.

ZCB

Change to double-hop working using satellites.....West and.....East now (or at....hours).

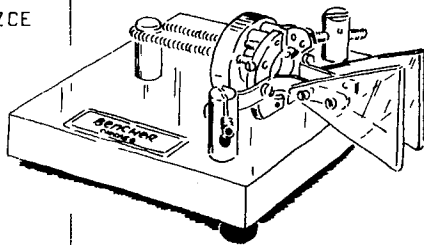
ZCC

Establish.....on access..... channel (A/B)  
 1. 300 db Emergency patch;  
 2. Phase-reversing-keying.

ZCD

Weight your access to ...(callsign) by .....db.

ZCE



Access satellite.....now (or at ....hours) with.....

1. Spread Spectrum Modulation (normal allocation).
2. Spread Spectrum Modulator changed to access.....
3. Spread Spectrum Demodulator changed to access.....
4. Frequency Modulation.
5. Phase Shift Keying Modulation.


ZCF

Remove access...now (or at.... hours)  
 1. Spread Spectrum Modulation

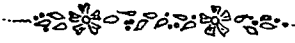
Question	Information
ZCG What is your frequency modulation deviation ?	(1-40). 2. Frequency Modulation. 3. Phase-reverse-keying. 4. Phase Shift Keying Modulation. My frequency modulation deviation is...
ZCH What is your tracking mode ?	My tracking mode is.... 1. Autotrack. 2. Manual tracking. 3. Hand barring.
ZCI What is your.....? 1. Total output power. 2. Quality meter reading. 3. Number of accesses. 4. Frequency modulation access power.	My 1. is.....watts. 2. ....%. 3. .... accesses. 4. ....watts.
ZCJ Are you experiencing equipment trouble ?	I am experiencing trouble with my 1. Spread Spectrum Modulator. 2. Frequency division multiplex equipment. 3. Line modem. 4. Time division multiplex equipment. 5. Switching or patching. 6. Servo system. 7. Transmitter. 8. Receiver. 9. Parametric Amplifier. 10. Phase Shift Keying Modulator.
ZCK Shall I loop my.....? 1. Spread Spectrum Modulator 2. Line modem 3. Time division multiplex equipment. 4. Frequency division multiplex equipment.	Loop your..... 1. Spread Spectrum Modulator Ch... 2. Line modem. 3. Time division multiplex equipment. 4. Frequency division multiplex equipment.
ZCL Have you checked speed setting of all equipment on... (channel/circuit) ?	I have checked speed setting on... (channel/circuit)
ZCM May I carry out.... on satellite.....? 1. Spread Spectrum Modulation back-to-back check. 2. Range measurement. 3. Power Balance.	Carry out....on satellite..... 1. Spread Spectrum Modulation back-to-back check. 2. Range measurement. 3. Power Balance.
ZCN Are you ready to synchronize Spread Spectrum Access.	I am ready to synchronize Spread Spectrum Access.....
ZCO	On your FM/FDM Access..... 1. Suppress telegraph Channel... (1-9) 2. Open telegraph Channel...(1-9)



Question	Information
ZCP	Change (total) radiated power.... 1. On narrow band to.....watts. 2. On Spread Spectrum.....watts. Note: This power excluded that for access D or E. 3. Of access.....(1-40, N1-N5, D or E) to.....watts. 4. Of access.....(1-40, RAE) to.... (0,3,6,9 db) below full access at Combiner Unit.
ZCQ	Change FM/FDM mode to Mode..... (A/D) with deviation.....kHz.
ZCR	I am about to initiate..... 1. Serial 2. Parallel synchronization of accesses.....and.....
ZCS	Switch your Spread Spectrum Access .....modulator to..... 1. Code off 2. Search 3. Sync. 1 4. Sync. 2 5. Traffic 6. Channel A Normal On 7. Channel B Normal On.
ZCT	My spread Spectrum Access demodulator is..... 1. CW tuned 2. In short-code lock 3. In long-code lock 4. In long-code and data-lock on Channel A only. 5. In long-code and data-lock on both channels.
ZCU	Set Spread Spectrum Access.....to..... 1. Channel A only. 2. Channel A and B retaining original radiated power for this access.
ZCV	Set speed of Spread Spectrum Access .....Channel.....(A/B) to..... 1. 1300 bd.                      4. 1200 bd. 2. 2600 bd.                      5. 2400 bd. 3. 600 bd.                        6. 4800 bd.
ZCW	1. Check your.....and advise 2. I have lost..... 3. Perform back to back through.... 4. Bypass 5. I have bypassed 6. Retune demodulator To be used in conjunction with ZCX.

	Question	Information
ZCX		<ol style="list-style-type: none"> <li>1. Test loop 1</li> <li>2. Test loop 2</li> <li>3. Test loop 3</li> <li>4. Test loop 4</li> <li>5. Paramp</li> <li>6. High Power Amplifier</li> <li>7. Demodulator</li> <li>8. Mux Channel A</li> <li>9. Mux Channel B</li> <li>10. Demux Channel A</li> <li>11. Demux Channel B</li> <li>12. Coder</li> <li>13. Decoder</li> <li>14. Tracking (including side lobe)</li> <li>15. 5 MHz standard</li> <li>16. Synthesizer</li> <li>17. Power Supply</li> <li>18. Modulator</li> <li>19. Satellite</li> <li>20. Crypto Equipment</li> <li>21. Patching DC</li> <li>22. Patching RF</li> <li>23. Patching Clock</li> </ol>
ZCY		<p>Operate at.....(BPS).....</p> <ol style="list-style-type: none"> <li>1. 75</li> <li>2. 84</li> <li>3. 150</li> <li>4. 168</li> <li>5. 300</li> <li>6. 336</li> <li>7. 600</li> <li>8. 672</li> <li>9. 1200</li> <li>10. 2400</li> <li>11. 4800</li> <li>12. 9600</li> </ol>
ZCZ		<p>To be used in conjunction with ZCZ.</p> <ol style="list-style-type: none"> <li>1. Coded</li> <li>2. Uncoded</li> <li>3. Satellite Access Channel at... DBW</li> <li>4. Relinquish Satellite Access due to sole access.....</li> <li>5. Relinquish Satellite Access due to violation of Power restrictions</li> <li>6. Increase power to .....DBW</li> <li>7. Decrease power to.....DBW</li> <li>8. NB ALPHA</li> <li>9. NB BRAVO</li> <li>10. Change Satellite Access Control to....at DBW.</li> </ol>

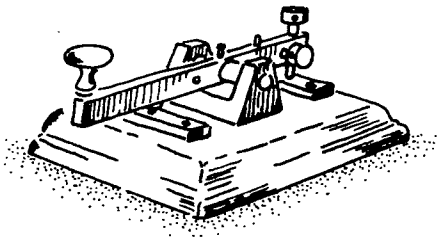
Question	Information
ZDA	I have a formal message for you (precedence is.....).
ZDB	Expedite reply(ies) to my..... (1. Previous operating signal; 2. Request(s) for repetition and correction; 3. Service message...)
ZDC	Last message (or message.....) requires a signal of execution.
ZDD	Bring message...to the circuit.
ZDE	Message...undelivered...(1. Station closed until....Z; 2. Attempting alert station to re-open (for Flash or Immediate precedence only) 3. Will continue efforts to effect disposal; 4. Advise disposition; 5. Will not continue further efforts. Request cancel and file; 6. Give more complete address).
ZDF	Message....was: (1. Received by (addressees designation) at ....Z 2. Received by (addressees designation communications center) at....Z 3. Delivered to (addressees designation by broadcast at....Z. 4. Forwarded to (addressees designation) by commercial means at ....Z 5. Mailed to (addressees designation) at....Z.
ZDG	Accuracy of following message(s) or message... is doubtful. Correction of confirmation will be forthcoming.
ZDH	Request corrected copy of message... be forwarded to.....
ZDI	Place this message (or message...) on...(1. Mericast; 2. Mericast one operator period).
ZDJ	I have a message containing... groups to transmit to you (or to...)
ZDK	Following repetition (of...) is made in accordance with your request
ZDL	Confirmation...(1. Was omitted; 2. Differs from text).
ZDM	I am holding your message....
ZDN	Report disposal of message....your station with any reason for delay.
ZDO	I could not send message...to....

Question	Information
ZDP	Hold my message...until correctness is confirmed.
ZDQ	Message...was relayed to...by...at ... (on...kHz (or MHz)).
ZDR	This is a multiple-address or book message tape containing...routing indicators in the routing line which is to be routed in accordance with the established doctrine.
ZDS	Message (or message...) which you have (or...has) just forwarded was incorrectly transmitted. Correct version of message (or part or portion...) is....
ZDT	Exercise messages are not to be sent until further orders (or until ...)
ZDU	Pass the following...(1. Private message (telegram); 2. Service telegram...) (Number of words charged for is...).
ZDV	Private message (telegram) received for...Request instructions.
ZDW	In addition to the regular broadcast times, this hydrographic message is to be transmitted on the following hydrographic schedules... (1. ....schedule; 2. All schedules on...(date); 3. All schedules from ... to ... (dates inclusive).
ZDX	Messages up to and including serial (or circuit) number...have been previously transmitted.
ZDY	Private messages (telegrams) are not to be sent until further orders (or until...).
ZDZ	On...(date) message(s) was (were) mailed to....(command(s)) bearing serial numbers....
	
ZEA	Pass plain language copy to....by secure means.
ZEB	This is a reprocessed ICAC message.
ZEC	Have you received message...? Message...(1. Not received; 2. unidentified. Give better identifying data).

Question	Information	
ZED	The following confirmatory information as received is at variance with the text.	
ZEE	Request message...be transmitted.	
ZEF	This message has been read (received or intercepted) from a ship at sea.	
ZEG	This message is not to be decrypted or reported outside the communication center....(1. Aggressor force; 2. Friendly force).	
ZEH	Accuracy of...portion of following message (or message...) is doubtful. Correction or confirmation will be forwarded when received. (1. Heading; 2. Text; 3. Group... to...).	
ZEI	Accuracy is doubtful of heading of message received as follows..... Check to station of origin if necessary and repeat.	
ZEJ	Replies to this message (or message ....) are to be sent now (or at...).	
ZEK	No answer is required.	
ZEL	Is message...a correction to message...which was previously transmitted with doubtful or missing groups (words)	This message is a correction (to message...) (transmitted by...). Note: May only be used in conjunction with ZDG.
ZEM		
ZEN		This message has been delivered by a separate transmission or by other means (1. Messenger/courier; 2. Mail) to the addressee(s) immediately following this operating signal.
ZEO		Transmit this message by rapid means when no charges are involved and to all others by mail.
ZEP		This message (or message...) was incompletely received. Each word or group missed, which is indicated by position of ZEP in the message, will be forwarded as soon as obtained.
ZEQ		Message...(or this message has been ...)(1. Missent to this station. Received at....Z. Message protected 2. Missent to this station and unable to protect delivery due to...

## Question

## Information



ZER

Request you re-transmit to the appropriate called station(s); 3. Misrouted to this station and has been rerouted to...at....Z. Recommend corrective action; 4. Misrouted to this station and unable to protect delivery (for...) due to...Request your station protect delivery; 5. Routed to this station in format line 2, but without delivery responsibility in format lines 7 or 8. Advise. 6. Delayed due to misrouting and is being retransmitted herewith.)

This is a multiple-address or book message tape containing...routing indicators in the routing line for which the station called in the pilot is responsible.

ZES

Your message...has been received... 1. Incomplete; 2. Garbled). Request retransmission.

ZET

Message...has been protected and no further action by...is required.

ZEU

Exercise (drill) message.

ZEV

Request you acknowledge message...

Message (or message...) is acknowledged.

ZEW

Your station is invited, for... (1. Action; 2. Information), to message...which is in your files.

ZEX

This is a book message and may be delivered as a single-address message to addressees for whom you are responsible.

ZEY

This message (or message...) has been (or will be) put on the... broadcast schedules (serial number ....)

ZEZ

When delivery is effected of this book message to addressee by commercial means, or when copy is forwarded to confirm message previously delivered by telephone it is to be sent as a single address message. (May only be used in conjunction with ZEX.)

ZFA

Following message has been read (received or intercepted).

Question	Information
ZFB	Pass this message to...(1. on arrival; 2. On return to base).
ZFC	Have you received (or sent) the executive signal ("Execute") for message...? Executive signal ("Execute") for last message (or the following message) has been made (or was made at.....).
ZFD	This message is a suspected duplicate.
ZFE	Pass message...(which is in your files) to addressee(s) for whom you are responsible using the indicated supplementary heading.
ZFF	Inform me when this message (or message...) has been received by...(addressee designation) or by...(1. Action addressee(s); 2. Information addressee(s); 3. All addressees; 4. Action addressee's/addressees' message center; 5. Information addressee's/addressees' message center; 6. All addressees' message center). (NOTE: NOT AUTHORIZED FOR USE ON GENERAL MESSAGES).
ZFG	This message is an exact duplicate of a message previously transmitted and is to be delivered to all appropriate addressees served by the receiving communication facility.
ZFH	This message (or message...) is being (or has been) passed to you (or...) for... (1. Action; 2. Information; 3. Comment)(at the request of...)
ZFI	Is there any reply to message...? There is no reply to message....
ZFJ	Message(s)...number(s)...not transmitted on this schedule (or on schedule...) are no longer needed.
ZFK	Does message...(or station serial number...) concern me (or...)? Message...(or station serial number...) (1. Does not concern you (or...); 2. No longer concerns you (or...).
ZFL	Was there any traffic addressed to me on...broadcast schedule between serial numbers...and...? Following traffic was addressed to you on...broadcast schedule between serial numbers... and...
ZFM	Message(s) serial number(s)...(to ...) which was (were) transmitted during unavailability of one or more transmitters, simultaneously keyed, will now be repeated.

Question	Information
ZFN	
ZFO	Message ...is being delivered as a basegram message.
ZFP	Basegram.
ZFQ	Two messages (...and...) received under channel number (or station serial number)...Both released.
ZFR	Cancel transmission...(made under channel of station serial number ...).
ZFS	Make message...same channel or station serial number as this procedure message.
ZFT	Message...received without channel number (or station serial number) following message bearing channel number (or station serial number) ...Message is released.
ZFU	Channel numbers...and...preceded message...lower number recorded and higher number blanked.
ZFV	Message...containing channel number(s)...separated by portions of the message, released subject to correction, Take necessary action to...provide corrected copy (to...).
ZFW	BLANK channel number(s)...Forward message...as channel number...
ZFX	Channel number (or station serial number)... is open.
ZFY	
ZFZ	
ZGA	What is my call sign for use on this circuit only ? Your call sign for use on this circuit only is...
ZGB	Send (answer)...(1. In alphabetical sequency of call signs. Each station to make its call signs once (or...times); 2. In the following sequency of call signs).
ZGC	Station to station receipts are not required for this FLASH message (authorization for use must be prescribed by authorities controlling network/systems).



Question	Information
ZGD	Two stations are using the same indefinite call sign on...kHz (or MHz). Both stations are to select different call signs.
ZGE	Send your call sign(s) once (or... times) on this frequency (or on... kHz (or MHz)).
ZGF	Make call signs more distinctly.
ZGG	Call sign of...is...(1. Friendly striking force aircraft; 2. Friendly shadowing aircraft; 3. Incoming vessel; 4. Senior officer present afloat (or Officer in tactical command); 5. Ship acting as flagship for...)?
ZGH	I am using this transmitter to answer calls on two or more frequencies. Answer to calls may be delayed.
ZGI	I am or have been (or...is or has been) calling you (on...kHz (or MHz)).
ZGJ	When will you call me again on present frequency (or on ...kHz (or MHz)) ? I will call you again as soon as possible (or at...) on present frequency (or on...kHz (or MHz)).
ZGK	When shall I call you again on present frequency (or on ...kHz (or MHz)) ? Call me again at...on present frequency (or on...kHz (or MHz)).
ZGL	...will answer calls for me (or for ...).
ZGM	Did you (or...) hear... (at...) ? I have (or...has) been unable to communicate with...(since...).
ZGN	When was I (or...) last heard ? Nothing heard from you (or...) (since...)
ZGO	What is my number and sequence in answering ? Your number is...Answer after number...(Numbers to be separated by separative sign).
ZGP	Answer calls for me on present frequency (or on...kHz (or MHz)).
ZGQ	
ZGR	
ZGS	
ZGT	
ZGU	
ZGV	
ZGW	

Question

Information

ZGX  
ZGY  
ZGZ



ZHA Shall I decrease frequency very slightly (or...kHz) to clear interference ?

Decrease frequency very slightly (or...kHz) to clear interference.

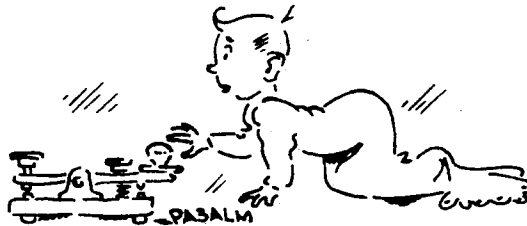
ZHB Shall I increase frequency very slightly (or...kHz) to clear interference ?

Increase frequency very slightly (or...kHz) to clear interference.

ZHC What is your signalling speed ?

My signalling speed is ...wpm.

ZHD  
ZHE  
ZHF  
ZHG  
ZHH  
ZHI  
ZHJ  
ZHK  
ZHL  
ZHM



**ZWP**

ZHN How do you receive my automatic transmission ?

Your automatic transmissions are ... (1. Good; 2. Fair; 3. Unreadable)

ZHD What is your speed of automatic transmission in... (1. Revolutions per minute; 2. Words per minute; 3. Bauds).

My speed of automatic transmission in... (1. Revolutions per minute; 2. Words per minute; 3. Bauds) is ...

ZHP What is preventing automatic reception ?

Automatic reception is prevented by...


ZHQ

Please listen for me on...kHz (or MHz) and transmit to me on...kHz (or MHz).

ZHR Is my speed of automatic transmission correct ?

Your speed of automatic transmission is... (1. Fast; 2. Slow; 3. Erratic; 4. Correct).

ZHS  
ZHT  
ZHU  
ZHV  
ZHW

Question	Information
ZHX ZHY ZHZ	
	
ZIA	This message (or message...) is being (or has been) passed out of proper sequence of station serial numbers.
ZIB Two messages...and.. (or group counts and time of origin ...and...), both received as serial number... What are correct serial numbers ?	Change station serial number of message...to read number...or Assign to message...station serial number...
ZIC What is (are) station serial number(s) or channel number (s) of last message(s) you transmitted to me (or to...)?	Station serial number(s) or channel number(s) of last message(s) transmitted to you (or to...) is (are)..
ZID What is (are) station serial number(s) o channel number(s) of last message(s) received from me (or from...)?	Station serial number(s) or channel number(s) of last message(s) received from you (or...) is (are) ...
ZIE	Station serial number(s) or channel number(s) (from...) has (have) not been received. Repeat message(s) or cancel serial number(s) or channel number(s).
ZIF	I (or...) did not use serial number(s).
ZIG Is (are) number(s)... (to...) blank ?	Number(s) ... (to...) is (are) blank.
ZIH	Repeat headings of message number ...to...transmitted by you (or...) to check serial numbers.
ZII What was...of your (or...'s) number... ? (1. Datetime group; 2. Filing time) ?	My (or...'s) number...had following ...(1. Datetime group; 2. Filing time).
ZIJ	I am now changing my channel number/letter. Last number sent in this series is that of this message.
ZIK	This is a weather controlled message which is not to be transmitted in the clear over radio-circuits.
ZIL	

Question

Information

ZIM  
ZIN  
ZIO  
ZIP

Have set continuous watch, or (1. Single operator period; 2. Two operator period; 3. General periods only; 4. Reduced single operator periods) on broadcast indicated. First serial number received is .../No number yet received.

ZIQ

Have ceased watch on Broadcast, last number received...

ZIR

ZIS

ZIT

ZIU

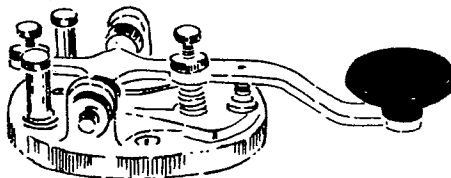
ZIV

ZIW

ZIX

ZIY

ZIZ



ZJA

Read signalling light of...

ZJB

May I close down visual watch now (or at...)?

Close down visual watch now (or at...).

ZJC

Repeat all flag signal made by the senior officer (senior officer present afloat).

ZJD

Use...(1. Better light; 2. Better background).

ZJE

Set visual watch now (or at...)

ZJF

Visual relaying station between senior officer (senior officer present afloat) (or...) and...is to be .....

ZJG

Repeat all flashing (or semaphore) messages made by the senior officer (senior officer present afloat).

ZJH

Your light is unreadable...(1. Not trained correctly; 2. Not bright enough; 3. Too bright).

ZJI

What are the call signs of the ships in company with you?

Call signs of the ships in company with me are...(For visual use only)

Question	Information
ZJJ	Use double-flash procedure.
ZJK Are you (or is...) visual guard for...?	I am (or...is) visual guard for...
ZJL	Hoist the following signal.
ZJM	<p>...(1. Flaghoist; 2. Semaphore; 3. 20 inch signalling projector; 4. 10 inch signalling projector; 5. ALDIS; 6. Intermediate; 7. Heather; 8. Daylight signalling lantern; 9. Masthead flashing light; 10. Infrared; 11. Signal search light; 12. Omnidirectional flashing light; 13 Directional flashing light.</p>
ZJN	<p>Message...has been passed to those for whom I am responsible (or to...) (at...) but "L" has not been received.</p>
ZJO	<p>Repeat back each group of the text of this message as it is transmitted.</p>
ZJP	<p>Message which follows is to be encrypted and passed to all addressees (by...). Only to be used by visual not liable to interception.</p>
ZJQ	<p>Repeat signal (or message...) the senior officer (senior officer present afloat) (or ship indicated) is now transmitting or is about to transmit.</p>
ZJR	<p>Only semaphore is to be used for visual signalling between...and...(or from...).</p>
ZJS	<p>Directional lights of minimum brilliance are to be used for all visual traffic between...and... except for messages of precedence priority and above requiring transmission to two or more ships.</p>
ZJT	<p>Broadcast transmitter indicated is about to be taken off for ... minutes (or until...).</p>
ZJU	
ZJV	
ZJW	
ZJX	
ZJY	
ZJZ	

Question	Information
ZKA Who is controlling station (net control station) on this frequency (or on...kHz (or MHz)) ?	I am (or...is) controlling station (net control station) on this frequency (or on...kHz (or MHz)).
ZKB Is it necessary to obtain the permission of the controlling station (net control station) before transmitting messages ?	It is necessary to obtain the permission of the controlling station (net control station) before transmitting messages.
ZKC	Substitute code sign (call sign) of control station of group (net) in place of this operating signal.
ZKD Shall I take control of net (for...) (until...) ?	Take control of net (for...) (until...)
ZKE	I (or...) report(s) into circuit (net).
ZKF	Station leaves net temporarily (or for...minutes) (to communicate with...) (will be on...kHz (or MHz))
ZKG	Observe (or direct...to observe) schedule with...on...kHz (or MHz) (at...).
ZKH Did you (or...) observe schedule with...(at...) ?	I (or...) observed schedule with ...(at...).
ZKI	Set watch on...kHz (or MHz)... 1. Continuous; 2. Until further notice).
ZKJ May I close down (until...) ?	...(1. Close down (until...); 2. I am closing down (until...)).
ZKK	Assume radiotelegraph (wireless) organization...forthwith (or at...)
ZKL	Resume normal radio communication now (or at...)
ZKM	Take guard (for...) (on...kHz (or MHz)).
ZKN	I have taken over guard on...kHz. (or MHz).
ZKO	I have handed over guard (to...) (on...kHz) (or MHz) (serial number of last message received was...).
ZKP Are you (or is...) radio guard for...(on...kHz (or MHz)) ?	I am (or ...is) radio guard for... (on...kHz (or MHz)).


Question

Information

ZKQ		Indicate ships or stations for which you are (or...is)... guard. 1. Radio (on...kHz (or MHz)); 2. Visual)
ZKR	On what frequencies are you (or...) maintaining watch ?	I am (or...is) maintaining watch on...kHz (or MHz).
ZKS	What stations are keeping watch on...kHz (or MHz) (or are in net) ?	Following stations are keeping watch on ...kHz (or MHz) (or are in net).
ZKT		Am keeping watch on...kHz (or MHz) for...(1. First five minutes in each half hour; 2. From 10 to 15 and 40 to 45 minutes past the hour; 3. Between...and...minutes past the hour).
ZKU		I am (or...is) maintaining continuous watch, on (1. Single operator period; 2. Two operator period; 3. General periods only; 4. Reduced single operator period) on...(call sign)...Broadcast.
ZKV		I am (or...is) standing splitphone watch on...and...kHz (or MHz).
ZKW		
ZKX		
ZKY		
ZKZ		
ZLA		I have pictures of the following types to transmit...(1. Photographs 2. Weather maps; 3. Blueprints; 4. Printed matter; 5. Test).
ZLB	What drum rotation speed shall I use ?	Transmit at...revolutions per minute. (1. 30; 2. 45; 3. 50; 4. 60 5. 90; 6. 100).
ZLC		Your transmission...(1. Shows objectionable modulation; 2. Suitable for communication but not for picture; 3. Shows caption too close to edge of picture; 4. Shows buckled print; 5. Shows fork drift; 6. Picture shows too much contrast; 7. Picture shows insufficient contrast; 8. Picture shows cross-over).
ZLD		I am unable to...(1. Synchronize with you; 2. Transmit pictures; 3. Copy pictures).

Question	Information
ZLE	Send...(1. Fence; 2. White; 3. Black; 4. Picture; 5. Synchronize; 6. Fence swinging black until I stop you; 7. Fence swinging white until I stop you).
ZLF	...(1. Inverter; 2. Converter; 3. 96-line 12 x 18 transceiver; 4. 100-line transceiver; 5. 300-line transceiver.
ZLG	Shall I transmit...(1. Negative; 2. Positive) ?
ZLH	Transmit ...(1. Negative; 2. Positive).
ZLI	Will you transmit map(s)... (...area...time...type) ?
ZLJ	I am going to transmit map(s)... (...area...time...type).
ZLK	Reverse material on drum and rerun until I break you.
ZLL	What size lettering shall I use ?
ZLM	Use...(1. Standard telegraphic typewriter; 2. Jumbo typewriter if available; 3. Hand lettering at least 3-16 of an inch high).
ZLN	Facility indicated cannot be operated at present.
ZLO	Is (are) facility(ies) ...operative at your station (or at...)?
ZLP	The following ...facility(ies) is (are) operative at this station (or at...). (1. Homing beacon; 2. Radar beacon; 3. Revolving and/or flashing beacon; 4. Radio beacon; 5. Instrument landing system; 6. Ground control approach; 7. Approach control; 8. Tower transmitter (state which type LF, MF, VHF or UHF); 9. MF Direction finder; 10. VHF Direction finder; 11. UHF Direction finder; 12. Runway lights; 13. Sandra lights; 14. Radio track guide; 15. Radio range).
ZLQ	What is (are) the magnetic line(s) of shoot of the... (facility) ?
ZLQ	The magnetic line(s) of shoot of the...(facility) is (are)...degrees.
ZLR	
ZLS	
ZLT	
ZLU	
ZLV	
ZLW	



Question	Information
ZLX ZLY ZLZ	
	
ZMA What was bearing of unknown station (or station using call sign...) at...(time) (on...kHz (or MHz)) ?	Bearing of unknown station (or station using call sign...) was... (at...time) Class...(on...kHz (or MHz)).
ZMB	Bearing of you (or of...) was.... (class...) from me (or from...) at...(time).
ZMC	Bearing of station which answered message (or transmission) from... was...(at...time) class...(on... kHz (or MHz)).
ZMD	1. Your bearing appears to be between...degrees and...degrees and sense indicates you are to the...(direction) of this station; 2. Your bearing is changing rapidly.
ZME	Pass in direction finding bearing (of...) obtained on...kHz (or MHz) (or between...and...kHz (or MHz)).
ZMF Will you endeavor to obtain a direction finding bearing of station now transmitting (or of...) (on...kHz (or MHz)) ?	Bearing of station now transmitting (or of...) (on...kHz (or MHz)) was...(class...) sense determined at...
ZMG	This bearing (course or position) is unreliable. Error in excess of class C bearing (or position) may amount...degrees or miles).
ZMH	Surface craft using call sign... cooperating. Change to...kHz (or MHz) and follow direction finding procedure when called.
ZMI Will you send your call sign and dashes of five seconds' duration at intervals in order that I (or...) may home on you ?	I am about to send my call sign and dashes of five seconds' duration at interval in order that you (or...) may home on me.
ZMJ	Check...(1. Correctness of last QUV; 2. Sense of last QDR; 3. Correctness of last QDM; 4. Sense of last QDM).
ZMK	Cannot determine your (or...'s) (1. Position; 2. Bearing).

Question	Information
ZML	Steer...degrees for 2 minutes if possible and send call sign and long dashes while you are so doing.
ZMM	Increase height to enable more accurate bearing to be completed.
ZMN	Change over to loop direction finding on...kHz (or MHz) and home on transmissions made by...
ZMO	What is my position by direction finding bearing from nearest landmark (or from...)?
Your position by direction finding cross bearings from nearest landmark (or from...) is...(class...) at...hours.	
ZMP	Endeavor to plot position from bearings taken on station(s) now transmitting (or of...) (on...kHz (or MHz)).
ZMQ	Cannot determine your position, you are in line or nearly in line with direction finding station baseline.
ZMR	Take over direction finding guard as previously ordered (on...kHz (or MHz)) (from...to...kHz (or MHz)).
ZMS	Carry out short direction finding procedure (as locally prescribed).
ZMT	Sense determination unreliable, bearing may be reciprocal.
ZMU	...(1. Listen (for...) on direction finding on ...kHz, (or MHz) (or between...and...kHz (or MHz)); 2. Shift to direction finding frequency ...and listen for call sign...).
ZMV	What is the grid course for me to steer to reach you (or...)?
The Grid Course for you to steer to reach me (or...) is ...degrees at...hours.	
ZMW	
ZMX	
ZMY	
ZMZ	
ZNA	You are encrypting...incorrectly. (1. Operating signals; 2. Radio call signs ; 3. Address groups).
ZNB	What is authentication of... (1. Message...; 2. Last transmission; 3. ...)?
Authentication (of...) is... (1. Message...; 2. Last transmission; 3...).	

Question

Information

ZNC

All transmissions will be authenticated...(1. On all circuits; 2. On this circuit; 3. On ... frequency).

ZND

You are using authenticator incorrectly...(1. Verify authenticator system key. 2. Check authentication of your last transmission).

ZNE

I am prepared to authenticate.

ZNF

Addressees who are not holders of the cryptographic system employed in the text need not decrypt (decipher), but shall sight (read) translation at first opportunity and obtain copy if applicable.

ZNG

Commands who are included in the collective address used in this heading, who are not holders of the cryptographic system employed in the text, are exempted.

ZNH

Plain text tape of this message should be prepared during process of decipherment.

ZNI

Shift to ...(1. On-line; 2. Plain) operation now.

ZNJ

This message has been transmitted under serial number...at...by station whose designation follows ...(1. By on-line cipher; 2. By off-line encryption).

ZNK

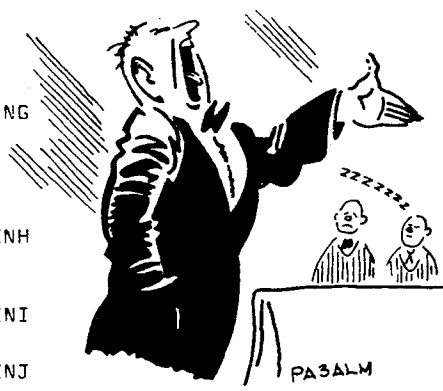
Addressees who do not hold cryptographic facilities are exempted.

ZNL

Receiving Cryptographic Office concerned should refer queries relating to the text of this message (e.g. requests for verification) to...(address designators except plain language). Note: To be used in codress messages when necessary to indicate originating crypto center and then normally limited to messages of Immediate precedence and above.

ZNM

Originator authorizes the transfer of this message into the secure networks of all authorities addressed, provided the networks are secured or approved for the security classification of the message involved.



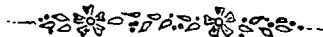
**ZPA**

Question	Information
ZNN* Unable to decrypt message... Will you check encryption and repeat message-indicator?	Correct message-indicator of message...is...
ZNO	Unable to decrypt message...(from indefinite call sign...). Note: To be used only under circumstances laid down in cryptographic instructions.
ZNP	Transfer operation of channel now to...(1. Normal; 2. Top Secret; 3. Conference; 4. Engineering on-line cipher operation. Note: This signal is for use only when already in on-line operation.
ZNQ	This message (or message...) received at this station...(1. Without authentication (when authentication is in force); 2. Incorrectly authenticated; 3. Correctly authenticated.)
ZNR	This message may be forwarded without change by radio or non-approved circuit. Note: The letter U repeated five times following this operating signal indicates that the message which follows is unclassified or is acceptable for transmission over any circuit in its present form.
ZNS	Following message has been authenticated...(This signal is for use only over approved/on-line circuits)
ZNT	Following message has NOT been authenticated...(This signal is for use only over approved/on-line circuits).
ZNU	
ZNV	
ZNW	
ZNX	
ZNY	
ZNZ	Do not forward this message unencrypted by radio or non-approved circuit. Note: A letter repeated five times following this operating signal indicates the classification for which the circuit must be approved before the message can be forwarded over it. Originator has indicated that this

## Question

## Information

message should be forwarded without service action on the text at relay or addressee stations, as the information conveyed is...(1. Perishable; 2. For information only and will be confirmed by other means).



ZOA		Relay this message (or message...) by visual (to...).
ZOB		Take (I will take) no further action regarding forwarding message...
ZOC		Station(s) called relay this message to addressees for whom you are responsible.
ZOD		Act as radiolink (relaying station) between me and...(or between...and...).
ZOE	Can you accept message for ...? (1. On-line; 2. Off-line).	Give me your message. I will dispose of it...(1. On-line; 2. Off-line).
ZOF		Relay this message (or message...) to...now (or at...).
ZOG		Transmit this message (or message..) to...(for...) (1. Action; 2. Information).
ZOH		Send message for...on...kHz (or MHz) by...(1. Receipt method; 2. Broadcast method; 3. Intercept method).
ZOI		Pass this message to the nearest (or...) weather central/control.
ZOJ*		Unable to relay message... in this format, because...(1. Callsign is not encrypted; 2. Text is not encrypted).
ZOK		Relay this message via...
ZOL		I will relay your call sign to senior officer present afloat, whose call sign is...
ZOM		Delivery of this message by mail in lieu of broadcast permissible (to..)
ZON		Place this message (or message...) on...(1. Continuous wave broadcast; 2. Radioteletype broadcast) indicated by following specific broadcast designator(s)...

Question	Information	
Z00	Place this message (or message...) on MERCAST indicated by following specific broadcast designator(s)...	
Z0P	This message (or message...) has been delivered to all broadcast areas (or to the following specific broadcast area(s))...	
Z0Q	Deliver this message (or message...) to all broadcast areas (or to the following specific broadcast areas..	
Z0R	1. Route traffic for...via...area broadcast. 2. Beginning at...traffic for you (or...) will be routed via ...area broadcast.	
Z0S	Request area routing for messages for...?	Area routing for messages for...is ...
Z0T	Transmit or handle this message at the lower precedence to the station or address designator(s) which follows.	
Z0U	How should traffic for... be routed ?	Route traffic for...through...(on ...kHz (or MHz)).
Z0V	Station designation preceding this operating signal is the correct routing for this message rerouted by...	
Z0W	Broadcast this message at special watchkeeping periods for ships with (1. One radio operator; 2. Two radio operators).	
Z0X	Place this message (or message...) on...(1. Morse/CW; 2. Radio submarine broadcast indicated by following specific broadcast designator(s))...	
Z0Y	Relay this message only to the station(s) whose designation(s) precede this operating signal.	
Z0Z	Relay this message (or message...) in its present form without decryption.	
ZPA	Your speech is distorted.	
ZPB	Your transmitter has strong radiation while idling.	

Question	Information
ZPC	Your signals are...(1. Fading badly; 2. Fading slightly; 3. Good for... words per minute; 4. Getting stronger; 5. Getting weaker).
ZPD	Is your signal as checked by monitor ...satisfactory (1. Locally; 2. As radiated) ? My signal as checked by monitor... is satisfactory (1. Locally; 2. As radiated).
ZPE	Maximum power is now being radiated.
ZPF	What is the readability of the signals of the group (net) (or of...) ? The readability of the signals of the group (net) (or of...) is... (1 to 5)
ZPG	What is (are) signal strength(s) of group (net) (or of...) ? Signal strength(s) of group (net) is (are) (or of...) is...(1 to 5).
ZPH	This interrupted transmission is cancelled. A complete retransmission from this station will follow without request.
ZPI	This is a subopauth edited version, either addressees and/or non-essential text have been removed from this messages subsequent delivery of the originators un-edited message is not intended unless requested.
ZPJ	
ZPK	This is a subopauth edited version, either addressees and/or non-essential text have been removed from this message. The originators un-edited message will be delivered by other means.
ZPL	Request un-edited versions of edited messages, broadcast numbers ...be forwarded by means other than the sub-marine broadcast.
ZPM	
ZPN*	IFF is in EMERGENCY-position.
ZPD	The text of this message is to be relayed in precisely the same format as that in which it is received. No characters or machine functions are to be added, inserted or deleted and the relative positions of the groups are to be retained.
ZPP	1. This is a subopauth edited version, either addressees and/or non-essential text have been removed from this message. Subsequent

Question	Information
ZPQ ZPR ZPS ZPT	<p>delivery of the originators unedited message is not intended unless requested.</p> <p>2. This is a subopauth edited version, either addressees and/or non-essential text have been removed from this message. The originators unedited message will be delivered by other means.</p> <p>3. Request unedited versions of edited messages: (broadcast numbers) be forwarded by other than the submarine broadcast.</p>
ZPU	<p>This transmission is a transmitter pre-acceptance trial. Request expeditious strength and readability reply.</p> <p>If more than one tropical wind warning message in this sequence is awaiting transmission, transmit highest serial number first. (Sequence/serial is understood to include tropical warning name or number and consecutive warning number).</p>
ZPV	<p>If the earlier wind warnings identified by DTG(s) following this signal are awaiting transmission, file those warnings without further transmission.</p>
ZPW	<p>This message cancelled at time indicated. File without further transmission.</p>
ZPX	<p>This message (or message...) is forwarded to you for screening and determination of need for broadcast promulgation. Advise broadcast control commander of recommend message disposition.</p>
ZPY	<p>This message (or message...) has been screened by command authority and requires broadcast delivery.</p>
ZPZ	<p>This message has been forwarded... (number of times) by stations within this network. Note: The number shall be incremented by one each time the message is relayed within the network. The OPSIG will be removed prior to the message exiting</p>



Question

Information

the network).



ZQA

The landing lights at the aerodrome (or at the aerodrome at...) are out of order.

ZQB

What is the magnetic direction in which landing is to be made ?

The magnetic direction in which landing is to be made is...degrees.

ZQC

Are you (or is...)...  
1. Airborne; 2. Waterborne; 3. On land) ?

I am (or...is)...at...(time).  
(1. Airborne; 2. Waterborne; 3. On land).

ZQD

Am I to carry out the procedures appropriate to the use of the...(facility) ?

You are to carry out the procedures appropriate to the use of the... (facility).

ZQE

What is your desired rate of descent expressed in hundreds of feet per minute ?

My desired rate of descent is... hundreds of feet per minute.

ZQF

What is the length in yards of the runway in use ?

The length of the runway in use is...yards.

ZQG

ZQH

ZQI

ZQJ

ZQK

ZQL

ZQM

ZQN

ZQO

ZQP

ZQQ

ZQR

ZQS

ZQT

ZQU

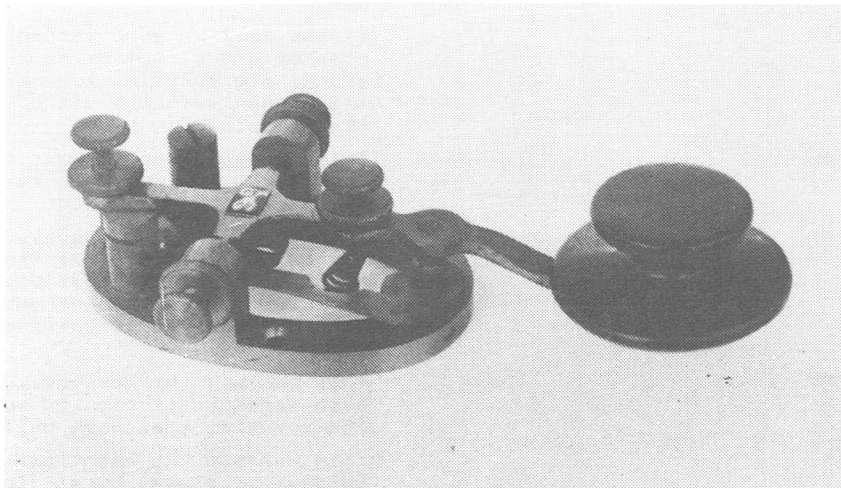
ZQV

ZQW


ZQX

ZQY

ZQZ



Question	Information
ZRA How does my frequency check?	Your frequency is...(1. Correct; 2. Slightly (or...hertz (or kHz)) high; 3. Slightly (or...hertz (or kHz)) low; 4. Stable on steady mark; 5. Stable on steady space; 6. Unstable; 7. Erratic.
ZRB	Check your (or...'s) frequency on this circuit (or on...kHz(or MHz)).
ZRC Shall I tune my transmitter to...(1. Proper frequency; 2. Zero beat with your (or...) transmitter ?	Tune your transmitter to...(1. Proper frequency; 2. Zero beat with my (or...) transmitter).
ZRD What is the frequency of the ...radio facility now in operation ?	The frequency of the...radio facility now in operation is...
ZRE On what frequency do you hear me best ?	I hear you best on...kHz (or MHz).
ZRF Will you send tuning signal on your present frequency (or on...kHz or MHz) for 1 minute, or until AS is given ?	Am about to send tuning signal on my present frequency (or on...kHz (or MHz)).
ZRG When will a change of frequency (to...kHz (or MHz)) be necessary ?	A change in frequency (to...kHz (or MHz)) will be necessary at approximately...
ZRH Is my frequency shift correct ?	Your frequency shift is...(1. Too wide; 2. Too narrow; 3. Not linear; 4. Correct (by hertz)).
ZRI	
ZRJ Will you check your...?	I will check my...
ZRK Shall I revert to single channel working ?	Revert to single channel working.
ZRL Are you working on correct code ? NOTE: This meaning applies only to frequency shift diplex.	I am working on the correct code. NOTE: This meaning applies only to frequency shift diplex.
ZRM Can you receive both sidebands of my independent sideband transmissions ?	I can receive...(1. The upper sideband; 2. The lower sideband; 3. Both sidebands).
ZRN Do you intend to transmit on ... (1. The upper sideband; 2. The lower sideband; 3. Both sidebands independently)?	I intend to transmit on...(1. the upper sideband; 2. The lower sideband; 3. Both sidebands independently).
ZRO Can you read me on...(1. Channel A...; 2. Channel B...; 3. Channel(s)...; 4. All channels...; 5. No channels).	I can read you on...(1, Channel A; 2. Channel B; 3. Channel(s); 4. All channels). 5. No channels).

Question	Information
ZRP nels) ?	Transfer signal on channel...to channel...(Should only be used when order originates from a third working channel. See ZRV for use between directly connected working channels).
ZRQ	Change to other sideband.
ZRR	Message(s) ...number(s)... will no longer be broadcast but are effective and of interest (to units indicated).
ZRS	Your carrier is...(1. Over-suppressed; 2. Under-suppressed).
ZRT	Radiate full unmodulated power for ...minutes.
ZRU Are my tone-frequencies correct ?	Your tone for...(1. Marking and spacing are high; 2. Marking and spacing are low; 3. Marking and spacing are correct).
ZRV	Transfer signal to channel...
ZRW	
ZRX	
ZRY	
ZRZ	
	
ZSA May I ascend to...(height)?	You may ascend to ...(height),
ZSB May I descend to...(height)?	You may descend to...(height).
ZSC	Switch on IFF
ZSD	IFF switched OFF.
ZSE Do you have glider in tow?	...(1. We have glider in tow; 2. We are forced to release glider at (approximate position)...).
ZSF	Switch off...(1. IFF; 2. IFF sets for ten minutes in area denoted except for ships whose call signs follow).
ZSG May I make an approach using the facility indicated ?	You may approach the facility indicated.
ZSH* What is...? (1. Date of the Rekoh-chart you are using 2. Date of Bombercode-chart; 3. Date of aircraft-reporting-chart, you are using; 4. indicator of ALAMETCO-chart;	I am using...(1. Rekoh-chart for the...day of the month; 2. Bombercode-chart for the...of the month; 3. Aircraft-reporting-chart for the...day of the month; 4. ALAMETCO-chart, numbered...; 5. Meteorologi-

Question

Information

ZSI	5. Date of Meteorological-chart, you are using)	cal chart for the...day of the month. You are...(1. To maintain height of...feet and report over...(call sign) range station; 2. To hold on ...leg of the beam...(call sign) range station at height...feet).
ZSJ		
ZSK		
ZSL		
ZSM		
ZSN		
ZSO		Send tapes (or messages)... (1. Once; 2. Twice).
ZSP		
ZSQ		
ZSR		
ZSS		
ZST		
ZSU		
ZSV		
ZSW		
ZSX		
ZSY		
ZSZ		
ZTA		...(1. Radio; 2. Visual; 3. Land-line; 4. Teletypewriter (Teleprinter); 5. Telephone; 6. Automatic; 7. Facsimile; 8. Shore telephone; 9. Shore teleprinter; 10. Radio teletypewriter. 11. Satellite).
ZTB		...(1. Transmitter-distributor; 2. Autohead; 3. Perforetor; 4. Reperforator; 5. Printer; 6. Undulator; 7. Keyboard 8. Frequency shift keyer; 9. Multiplexing carrier base; 10. On line crypto device).
ZTC	...(1. Does my...appear to be faulty; 2. Is your... faulty ?	...(1. Your...appears to be faulty; 2. My...is faulty).
ZTD	Shall I use....?	Use....

Question	Information
ZTE Are you (or is...) able to use...?	I am (or...is) able to use...
ZTF Are repairs completed ?	Repairs....(1. Completed; 2. Un-completed, estimated completion time...minutes; 3. Cannot be completed, because...).
ZTG	...(class of emission/type of transmission as indicated in Chapter 6).
ZTH*	...(1. Frequency-modulation ; 2. Amplitude-modulation; 3. Impuls-modulation; 4. Frequency-shift (... cycle shift) 5. Frequency-modulation with suppressed carrier (SCFM).
ZTI	...(1. Receiver; 2. Transmitter; 3. Power supply; 4. Antenna system; 5. Radio direction finder).
ZTJ	Cease using...
ZTK Are you (or is...) connected to...?	I am (or...is) connected to....
ZTL Are you (or is...) about to disconnect ?	I am (or...is) about to disconnect.
ZTM	I am (or...is) unable to use...
ZTN What is my bias distortion?	Your bias distortion is... (1. Excessive; 2....percent (marking); 3. ...percent (spacing); 4. ...percent (total distortion).
ZTO Is my character formation correct ?	Your character formation is...(1. Correct; 2. Defective in the start element; 3. Defective in the 1st unit; 4. Defective in the 2nd unit; 5. Defective in the 3rd unit; 6. Defective in the 4th unit; 7. defective in the 5th unit; 8. Defective in the stop element).
ZTP What is the duration of your modulation cycle ?	The duration of my modulation cycle is... <u>50 Baud Equipment</u> 1. 148 milliseconds (7.42 units) fast. 2. 150 milliseconds (7.5 units) correct. 3. 152 milliseconds (7.6 units) slow. 4. ...erratic per character. <u>45.5 Baud Equipment</u> 1. 161 milliseconds (7.35 units) fast. 2. 163 milliseconds (7.42 units) correct. 3. 165 milliseconds (7.5 units) slow.

Question

Information

ZTQ	Will you...(1. Get the Circuit Engineer/Facility Control Technician to speak on this circuit (or circuit ...); 2. Hand the line over to the Circuit Engineer/Facility Control Technician for check) ?	4. ...erratic per character. I will...(1. Get the Circuit engineer/Facility Control Technician to speak on the circuit; 2. Hand the line over to the Circuit Engineer/Facility Control Technician for check and call you when check has been completed).
ZTR	Will you...(1. Disconnect your equipment from line and carry out local test, reconnecting to line in...minutes; 2. Connect your transmit line to your receive line to enable me to carry out a loop test for...minutes)?	I will...(1. Disconnect (or I am disconnecting) my equipment from line and carry (or to carry) out local test reconnecting to line in ...minutes; 2. Connect my transmit line to my receive line to enable you to carry out a loop test for... minutes).
ZTS	Is the line satisfactory ?	The line is...(1. Satisfactory; 2. Unsatisfactory).
ZTT		
ZTU		
ZTV		
ZTW		
ZTX		
ZTY		
ZTZ		
ZUA	Request a timing signal now (or at...)	Timing signal will be transmitted now (or at...). The numerals indicating the time will be followed by a five-second dash terminating exactly at the time indicated.
ZUB		At...
ZUC		From...to...
ZUD		Until further orders (or until...).
ZUE		Affirmative (yes).
ZUF		Air Raid...(1. Warning. 2. In progress; 3. All clear).
ZUG		Negative (No).
ZUH		Unable to comply.
ZUI		Your attention is invited to...
ZUJ		Stand by.
ZUK	...(Appointment Code)	...(Appointment Code) is now ready

Question

Information

desires key conversation on this circuit with... (Appointment Code). Will you indicate when you are ready ?

to begin key conversation with... (Appointment Code).

- ZUL
- ZUM
- ZUN
- ZUD
- ZUP
- ZUQ
- ZUR
- ZUS
- ZUT
- ZUU
- ZUV
- ZUW
- ZUX
- ZUY
- ZUZ



QRI

ZVA

Station called is responsible for relay or delivery to all stations in line two (2) or to stations indicated.

ZVB What was your time over last compulsory reporting point, and ETA at next compulsory reporting point ?

My time over last compulsory reporting point was...and my ETA at next compulsory reporting point is ....

ZVC

ZVD

ZVE What are the security conditions of your termination of this channel (or...channel/circuit designated) ?

Security conditions at my termination of this channel (or... channel/circuit designated) are... (1. Secured for Restricted; 2. Secured for Confidential; 3. Secured for Secret; 4. Secured for Top Secret). NOTE: This answer to this signal may only be passed on circuits cleared for classified traffic.

ZVF

This channel (or...channel/circuit designated) is unserviceable for classified traffic.

Question	Information
ZVG	
ZVH	
ZVI	
ZVJ	
ZVK	
ZVL	
ZVM	
ZVN	
ZVO	
ZVP	
ZVQ	
ZVR	<p>This message, relating to a warning, an alert, distress, or an emergency, is authorized to be relayed via the facilities of your network prior arrangement.</p> <p>Retransmit this message (or message...) at once to all subordinate stations.</p>
ZVS	
ZVT	
ZVU	
ZVV	
ZVW	
ZVX	
ZVY	
ZVZ	
ZWA	
ZWB	<p>Indicate name of...(1. Operator on watch; 2. Senior rating on watch; 3. Operator who transmitted last message (or message...)). NOTE: This signal is authorized for use in connection with operator training only; it may not be used for any other purpose.</p>
ZWC	<p>The following is to be taken as applying to personnel on watch only.</p>
ZWD	<p>Carry out communication...(visual exercise number...at...senior officer (or...)) is to conduct.</p>
ZWE	<p>Voluntary exercise (number...) may be carried out now (or at...).</p>



Question	Information
ZWF	Incorrect
ZWG	You are correct.
ZWH	Try again
ZWI	Answer last question (or question..)
ZWJ	Stations are to answer...taking the following duties...A,...B,...C etc.
ZWK	Following is answer to the last question (or question...).
ZWL	No forwarding action to the designation(s) immediately following is required.
ZWM	Correct answer to last question (or question...) is...(or will be found in...)
ZWN	Correct version of the part of the last message (or message...) which was sent incorrectly is...(or will be found in...).
ZWO	Following message (or question, or exercise is for the exercise of... 1. Junior operators; 2. Senior operators; 3. Ratings on watch).
ZWP	A junior operator is to carry out ... 1. A standard flashing exercise; 2. A standard semaphore exercise; 3. A standard radiotelegraphy transmitting exercise; 4. A standard radiotelegraphy receiving exercise.
ZWQ	
ZWR	
ZWS	
ZWT	
ZWU	
ZWV	
ZWw	
ZWX	
ZWY	
ZWZ	
ZXA	The following group is a call sign, delivery group or address group. (Used in plain language texts of

Question	Information
ZXB	<p>messages other than procedure messages.</p> <p>Station(s) to whom this message is routed obtain a complete copy of this interrupted transmission by addressing a service message to the originating station.</p>
ZXC	<p>This transmission has been interrupted. A retransmission will follow without request. (Must be followed immediately by valid end of message sequence).</p>
ZXD	<p>This message is to be delivered to the addressee(s) in tape form.</p>
ZXE	
ZXF	
ZXG	
ZXH	
ZXI	
ZXJ	
ZXK	<p>Station called relay this message (or message...) to... in addition to predetermined responsibilities.</p>
ZXL	
ZXM	
ZXN	
ZXD	<p>Request you obtain retransmission of messages...from station...</p>
ZXP	<p>I have for you...(1. A request for direct air support; 2. A reply to support request; precedence is...).</p>
ZXQ	<p>I have for you...(1. A request for tactical reconnaissance; 2. A request for photographic reconnaissance; 3. A request for artillery reconnaissance. Precedence is...).</p>
ZXR	<p>Intensive flag signalling will take place shortly (or in...minutes).</p>
ZXS	<p>Message which follows is to be handled by...(1. Officer Emergency Cryptographic team; 2. Ratings Emergency Cryptographic team; 3. Senior Communications Rating; 4. Junior Communications Rating; 5. Coder (Educational)).</p>
ZXT	<p>This message is not to be transmitted by radiotelegraph or radio-</p>

Question

Information

ZXU

ZXV

ZXW

ZXX

ZXY

ZXZ

ZYA

ZYB

ZYC

ZYD

ZYE

ZYF

ZYG

ZYH

ZYI

ZYJ

ZYK

ZYL

ZYM

ZYN

ZYO

ZYP

ZYQ

ZYR

ZYS

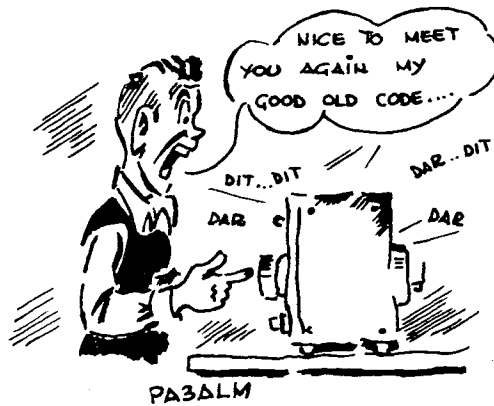
ZYT

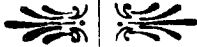
telephone in any form over part of its route.

This message has been delivered to all action addressees whose designations follow this operating signal.

This message has been delivered to all information addressees whose designations follow this operating signal.

Transmit this message to the addressee(s) indicated by the numeral(s) following... All addressees are to be counted consecutively as they appear (numbers to be separated by the Separative Sign).



Question	Information
ZYU	
ZYV	
ZYW	
ZYX	
ZYY	
ZYZ	
	
ZZA*	Indicate name of operator who transmitted last message (or message...) (see ZWB)
ZZB*	Indicate name of operator on watch. (see ZWB)
ZZC*	The following is to be taken as applying to personnel on watch only.
ZZD*	Carry out visual exercise number... at...Senior officer is to conduct.
ZZE*	Voluntary exercise (number...) may be carried out now (or at...) See ZWE.
ZZF*	Incorrect. (SEE ZWF).
ZZG*	Correct. (See ZWG).
ZZH*	Try again.( See ZWH).
ZZI*	Answer last question (See ZWI).
ZZJ*	Stations are to answer...taking the following duties...A,...B,...C, etc (See ZWJ).
ZZK*	Following is answer to the last question (or question...) (See ZWK)
ZZL*	Correct answer to last question (or question...) is...(or will be found in ...).
ZZM*	Correct version of the part of the last message (or message..) is... (or can be found in...). (See ZWN).
ZZN*	Following message (or question, or exercise is for the exercise of... (1. Junior operators; 2. Senior operators; 3. Ratings on watch). (See ZWO).
ZZO*	A junior operator is to carry out ... (1. A standard flashing exercise; 2. A standard semaphore exercise; 3. A standard radiotelegraphy transmitting exercise; 4. A standard radiotelegraphy receiving exer-

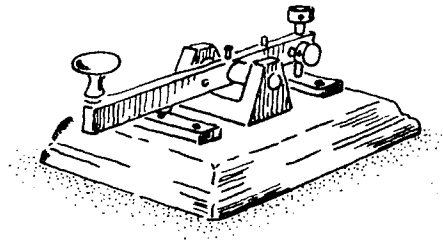
Question

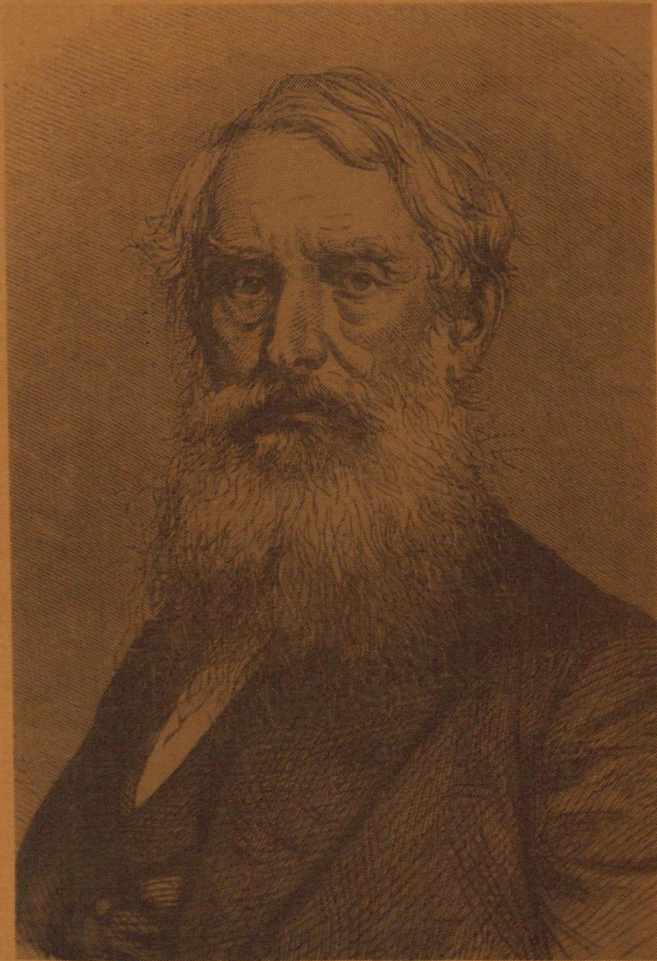
Information

ZZP  
ZZQ  
ZZR  
ZZS  
ZZT  
ZZU  
ZZV  
ZZW  
ZZX  
ZZY  
ZZZ

cise.).

Bergen op Zoom - Maassluis  
15 oktober 1986.





Samuel  
Haley  
Greene  
Horse