

## Z Codes – Military and Commercial

### Z - CODES - Military & Commercial

Z-Codes are mainly used over commercial and military teleprinter, facsimile and high speed automatic telegraphy links and are not normally used by Radio Amateurs, even when using RTTY, but the list is included for general interest.

The list and usage data was compiled by [Ralf D.Kloth, DL4TA](#), and is reproduced here with his kind permission. I am grateful to Ralf for this, as he spent a considerable amount of time and effort researching various sources in order to produce his list.

The Z-Code was originally developed as a service code by Cable & Wireless Ltd. for usage in the commercial communications business. NATO military Z-signals are completely different from the old Cable & Wireless codes.

The NATO military Z-signals, ZAA...ZZZ, are defined in ACP 131, but the series ZYA...ZZZ is reserved for the temporary or permanent assignment of meanings on an intra-military basis by any nation, service or command.

In the following table, a non-annotated code denotes the original Cable & Wireless usage, \* indicates NATO military usage (ACP-131(E), 1997) and \*\* indicates Russian military usage.

As the majority of Z-Codes are not normally used as questions, their meanings are given with the answer, advice or information form shown first, with the question form shown in a second column, if appropriate. Z signals shall be read as questions when followed by the interrogation signal (IMI) in civil use or preceded by the prosign (INT) in NATO military use.

Note that the numbers 1...5 following a Z signal have the following meanings:-

- (1) very slight
- (2) slight
- (3) moderate
- (4) severe
- (5) extreme

Code	Advice Information or Answer	Question
ZAA*	You are not observing proper circuit discipline.	
ZAB*	Your speed key is improperly adjusted.	
ZAC	Advise (callsign of) frequency you are reading.	
ZAC*	Cease using speed key.	
ZAD*	Your operating signal (made at ...) received as ... (1) not understood; (2) not held.	
ZAE*	I am unable to receive you. Receipt through ...	
ZAF*	I am about to patch you through to ...	Will you patch me through (via ...). to ... (via you or ...) ?
ZAG*	Break.... (1) Go ahead with new text tape; (2) Go back ... feet; (3) Advance your key tape to reference mark number and repeat last transmission (or transmission ...).	
ZAH*	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 ...).	
ZAI*	Run ... (1) caller; (2) test tape; (3) synchronizing tape; (4) traffic tape; (5) marking signals; (6) spacing signals; (7) reversals; (8) teletypewriter space bar signals; (9) Date1 test at ... bd.	
ZAJ*	I have (or ... has) been unable to break you.	
ZAK	Transmission interrupted at ... hrs.	
ZAK*	Transmission on ... kHz (or ... MHz) suspended until ... (or	

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	was suspended at ...) on account of electrical hazards (or ...).	
ZAL	Alter your wavelength.	
ZAL*	I am closing down (until ...) due to ...	
ZAM*	I am unable to obtain reply from teleprinter switchboard ... (for connection to ...). Request you call switchboard (or other intermediate switchboard) for me.	
ZAN	We can receive absolutely nothing.	
ZAN*	Transmit only messages of and above precedence ...	
ZAO*	I cannot understand your speech, use radiotelegraph.	
ZAP	Acknowledge, please.	
ZAP*	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 system; diversity modem ?	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 system; diversity modem ?
ZAQ*	The last word (or group) (1) received from you (2) transmitted to you was ...	
ZAR	Revert to automatic relay.	
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*	I am preparing traffic (perforating tape) for transmission.	
ZAU*	Teletype range taken on your signal(s)	What is teletype range taken is ... to ... on my signal(s)?
ZAV*	Transmit traffic for me (or for ...) by broadcast method until further directed (or until ...).	
ZAW*	Transmit 12 inches of blank tape as short intervals at ... words per minute.	Shall I transmit 12 inches of blank tape as 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 confirm 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.	
ZBA*	Delay (or bad transmission) due to ...	What is cause of delay (or of bad transmission)?
ZBB	Make ... copies of the following message.	

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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	Use large message formula for the following telegram.	
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 radio telephony.	
ZBJ*	The estimated errors per thousand printed characters in your signals (or those of ...) is ... (1) greater than 13; (2) 7 to 12; (3) 1 to 6; (4) nil.	What are the estimated errors per thousand characters in my signals (or those of ...)?
ZBK*	I am receiving your traffic ... (1) clear (2) garbled.	Are you receiving my traffic clear?
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 speed key operator; (2) a competent operator.	
ZBN	Break and go ahead with new slip.	
ZBN*	Your ... is reversed: (1) tape; (2) mark and space.	
ZBO*	I have (or ... has) ... (numeral followed by precedence prosign for each pre-precedence) message(s) for you (or for ...).	Of what precedence(s) and for whom is (are) your message(s)?
ZBP*	Your ... (1) characters are indistinct; (2) spacing is bad.	
ZBQ*	Message ... was received at ... on ... kHz (or MHz).	When and on what frequency was message ... received?
ZBR	Break circuit, retuning.	
ZBR*	Send by ... (1) direct (R) method; (2) broadcast (F) method; (3) intercept (I) method; (4) repeat back (G) method.	Shall I send by ... 1) direct (R) method; (2) broadcast (F) method; (3) intercept (I) method; (4) repeat back (G) method?
ZBS	Blurring signals, (1) dots heavy (2) dots light.	
ZBS*	Your ... (1) dots are too heavy; (2) dots are too light; (3) dots are varying in bias; (4) dot spacing is bad; (5) dots are missing; (6) dots are blurring.	
ZBT*	Text group(s) ... should be counted as ... group(s).	How do you count following text group(s)...?
ZBU*	Report when you are in radio communication with ...	
ZBV*	Answer me (or ...) on ... kHz (or MHz).	
ZBW*	I am (or ... is) shifting to transmit on ... kHz (or MHz).	Will you shift (or ask ... to shift) to transmit on ... kHz (or MHz) ?

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ZBX*	I am (or ... is) shifting to receive on ... kHz (or MHz).	Will you shift (or ask ... to shift) to receive 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*	The printing acceptability of your signals (or those of ...) is ... (1) unacceptable - totally corrupt; (2) unacceptable - very corrupt; (3) unacceptable - partly corrupt; (4) acceptable - occasionally corrupt; (5) acceptable - no corruption.	What is the printing acceptability of my signals (or those of ...)? (1) unacceptable - totally corrupt; (2) unacceptable - very corrupt; (3) unacceptable - partly corrupt; (4) acceptable - occasionally corrupt; (5) acceptable - no corruption.
ZCA	Circuit affected, make readable signals.	
ZCA*	Satellite(s) is/are pre-empted from ...Z to ...Z.	
ZCB	Circuit broken, signal unheard.	
ZCB*	Change to double-hop working using satellites ...West and...East now (or at ... hours).	
ZCC	Collate code.	
ZCC*	Establish ... on access ... channel (A/B) (1) 300 dB emergency patch; (2) phase-reverse-keying.	
ZCD	Your collation is different.	
ZCD*	Weight your access to ... (call sign) 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	Check your center frequency, please.	
ZCF*	Remove access ... now (or at ... hours) (1) spread spectrum modulation (1 - 40); (2) frequency modulation; (3) phase-reverse-keying; (4) phase shift keying modulation.	
ZCG*	My frequency modulation deviation is ...	What is your frequency modulation deviation?
ZCH*	My tracking mode is ... (1) auto track; (2) manual tracking; (3) hand barring.	What is your tracking mode?
ZCI	Circuit interrupted. Running and available.	
ZCI*	My ... (1) is ... watts; (2) is ... %; (3) is ... accesses; (4) is ... watts.	What is your ...? (1) total output power; (2) quality meter reading; (3) number of accesses; (4) frequency modulation access power.
ZCJ*	I am experiencing equipment 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;	Are you experiencing equipment trouble?

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	(8) receiver; (9) parametric amplifier; (10) phase shift keying modulator.	
ZCK	Check keying.	
ZCK*	Loop your ... (1) spread spectrum modulator channel ...; (2) line modem; (3) time division multiplex equipment; (4) frequency division multiplex equipment.	Shall I loop my...? (1) spread spectrum modulator channel ...; (A/B); (2) line modem; (3) time division multiplex equipment; (4) frequency division multiplex equipment.
ZCL	Transmit call letters intelligibly.	
ZCL*	I have checked speed setting on ... (channel/circuit).	Have you checked speed setting of all equipment on ... (channel/circuit) ?
ZCM*	Carry out ... on satellite ... (1) spread spectrum modulation back-to-back check; (2) range measurement; (3) power balance.	May I carry out ... on satellite...? (1) spread spectrum modulation back-to-back check; (2) range measurement; (3) power balance.
ZCN*	I am ready to synchronize spread spectrum access ...	Are you ready to synchronize spread spectrum access?
ZCO	Your collation omitted.	
ZCO*	On your FM/FDM access ... (1) suppress telegraph channel ... (1 - 9); (2) open telegraph channel ... (1 - 9).	
ZCP	Conditions poor, increase to maximum.	
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	Using concentrator, make warning signals.	
ZCR*	I am about to initiate ... (1) serial; (2) parallel synchronization of accesses ... and ...	
ZCS	Cease sending.	
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	Send code twice.	
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 ... channel ... (A/B) to ... (1) 1300 bd.; (2) 2600 bd.; (3) 600 bd.; (4) 1200 bd.; (5) 2400 bd.;	

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	(6) 4800 bd.	
ZCW		Are you in direct communications with...?
ZCW*	<p>(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.</p>	
ZCX*	<p>(1) Test loop 1;                  (2) Test loop 2;                  (3) Test loop 3;                  (4) Test loop 4;                  (5) paramp;                  (6) high power amplifier;                  (7) demodulator;                  (8) MUX channel A;                  (9) MUX channel B;                  (10) DeMUX channel A;                  (11) DeMUX channel B;                  (12) coder;                  (13) decoder;                  (14) tracking (including side lobe);                  (15) 5 MHz standard;                  (16) synthesizer;                  (17) power supply;                  (18) modulator;                  (19) satellite;                  (20) crypto equipment;                  (21) patching DC;                  (22) patching RF;                  (23) patching clock.</p>	
ZCY*	<p>Operate at ... (BPS) ...                  (1) 75;                  (2) 84;                  (3) 150;                  (4) 168;                  (5) 300;                  (6) 336;                  (7) 600;                  (8) 672;                  (9) 1200;                  (10) 2400;                  (11) 4800;                  (12) 9600;                  to be used in conjunction with ZCZ.</p>	
ZCZ*	<p>(1) Coded;                  (2) uncoded;                  (3) satellite access channel at ... dBW;                  (4) relinquish satellite access due to sole access ...;                  (5) relinquish satellite access due to violation of power restrictions;                  (6) increase power to ... dBW;                  (7) decrease power to ... dBW;                  (8) NB ALPHA;                  (9) NB BRAVO;                  (10) change satellite access channel to ... dBW;                  (11) satellite.</p>	
ZDA*	I have a formal message for you (precedence is ...).	

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ZDB*	Expedite reply(ies) to my ... (1) previous operating signal; (2) request(s) for repetition and correction; (3) service message ...	
ZDC	Diagnosing circuit faults, will advise.	
ZDC*	Last message (or message ...) requires a message (or signal of execution.	Does the last message ...) require a signal of execution?
ZDD*	Bring message ... to the circuit.	
ZDE	Message ... undelivered.	
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	Frequency is drifting to degree indicated, 1...5.	
ZDF*	Message ... was, (1) received by (addressee(s) designation) at ....Z; (2) received by (addressee(s) designation) communications center at ....Z; (3) delivered to (addressee(s) designation) by broadcast at ....Z; (4) forwarded to (addressee(s) designation) by commercial means at ....Z; (5) mailed to (addressee(s) designation) at ....Z.	
ZDG*	Accuracy of following message(s) (or message ...) is doubtful. Correction or confirmation will be forthcoming.	
ZDH	Your dots are too heavy (long).	
ZDH*	Request corrected copy of message ... be forwarded to ...	
ZDI*	Place this message (or message ...) on ... (1) MERCAST; (2) MERCAST one operator period.	
ZDJ*	I have a message containing ... groups to transmit to you (or to ...).	How many groups does your message contain?
ZDK*	Following repetition (of ...) is made in accordance with your request.	Will you repeat message ... (or portion ...)?
ZDL	Your dots are too light (short).	
ZDL*	Confirmation ... (1) was omitted (2) differs from text.	
ZDM	Your dots missing.	
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 ...	
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	Following transmitters running dual.	
ZDT*	Exercise messages are not to be sent until further orders (or	

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	until ...).	
ZDU*	Pass the following ... (1) private message (telegram); (2) service telegram; (number of words charged for is ...).	
ZDV	Your dots varying in length, please remedy.	
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 ICAO message.	
ZEC*	Message ... (1) not received; (2) unidentified: give better identifying data.	Have you received message...?
ZED	Experiencing drop-outs, 1...5.	
ZED*	The following confirmatory information as received is at variance with the text.	
ZEE*	Request message ... be transmitted.	
ZEF	We are experiencing fill-ins, 1...5.	
ZEF*	This message has been read (received or intercepted) from a ship at sea.	
ZEG	We are experiencing garbles, 1...5.	
ZEG*	This message is not to be decrypted or reported outside the communications center in ... (1) aggressor force; (2) friendly force.	
ZEH*	Accuracy or ... 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*	This message is correction to message ... (transmitted by ...). Note: May only be used in conjunction with ZDG.	Is message ... a correction to message ... which was previously transmitted with doubtful or missing groups (words) ? Note: May only be used in conjunction with ZDG.
ZEM*	Reserved for Intelligence Community use only.	
ZEN*	This message has been delivered by a separate transmission or by other means (1) messenger/courier; (2) mail; to the addressee(s) immediately	



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	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 ... 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.	
ZER*	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 attention 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. Note: May only be used in conjunction with ZEX.	
ZFA	Failing auto.	
ZFA*	Following message has been read (received or intercepted).	
ZFB	Signals are fading badly.	
ZFB*	Pass this message to ... (1) on arrival; (2) on return to base.	
ZFC	Check your FSK shift, please.	
ZFC*	Executive signal ("Execute") for last message (or following message) has been made (or was made at ...).	Have you received (or sent) the executive signal ("Execute") for message...?
ZFD	Depth of fading is as indicated, 1...5.	

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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 addresses served by the receiving communications 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*	There is no reply to message ...	Is there any reply to message...?
ZFJ*	Message(s) ... number(s) ... not transmitted on this schedule (or on schedule ...) are no longer needed.	
ZFK	Revert to FSK.	
ZFK*	Message ... (or station serial number ...) (1) does not concern you (or ...); (2) no longer concerns you (or ...).	Does message ... (or station serial number ...) concern me (or ...)?
ZFL*	Following traffic was addressed to you on ... broadcast schedule between serial numbers ... and ...	Was there any traffic addressed to me on ... broadcast schedule between serial numbers ... and ...?
ZFM*	Message(s) serial number(s) ... (to ...) which was (were) transmitted during unserviceability of one or more transmitters, simultaneously keyed, will now be repeated.	
ZFO	Signals faded/fading out.	
ZFO*	Message ... is being delivered as a Basegram message.	
ZFP*	Basegram.	
ZFQ	Frequency shift of your signal is ... Hz.	
ZFQ*	Two messages (... and ...) received under channel number (or station serial number) ... Both released.	
ZFR	Rapidity of fading is as indicated, 1...5.	
ZFR*	Cancel transmission ... (made under channel or station serial number ...).	
ZFS	Signals are fading slightly.	
ZFS*	Make message ... same channel or station serial number as this procedure message.	
ZFT*	Message ... received without channel number(s) (or station serial number) following message bearing channel number (or station serial number) ... Message released.	
ZFU*	Channel numbers ... and ... preceded message ... Lower number was recorded and the 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.	
ZGA*	Your callsign for use on this circuit is ...	What is my call sign for use on this circuit only?
ZGB*	Send (answer) ...	

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	(1) in alphabetical sequence of call signs; each station to make its call sign once (or ... times); (2) in the following sequence 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).	
ZGD*	Two stations are using the same indefinite callsign 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	... signals good for ... wpm.	
ZGF*	Make callsigns 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 ...	What is call sign of ... (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*	I will call you again as soon as possible (or at ...) on present frequency (or on ... kHz (or MHz)).	When will you call me again on present frequency (or on ... kHz (or MHz))?
ZGK*	Call me again at ... on present frequency (or on ... kHz (or MHz)).	When shall I call you on present frequency (or on ... kHz (or MHz))?
ZGL*	... will answer calls for me (or for ...).	
ZGM*	I have (or ... has) been unable to communicate with ... (since ...).	Did you (or ...) hear ... (at ...)?
ZGN*	Nothing was heard from you (or ...) (since ...).	When was I (or ...) last heard?
ZGO*	Your number is ...; answer after number... (numbers to be separated by separative signs.	What is my number and sequence in answering?
ZGP	Please give priority.	
ZGP*	Answer calls for me on present frequency (or on ... kHz (or MHz)).	
ZGS	Your signals are getting stronger.	
ZGW	Your signals are getting weaker.	
ZHA	How are conditions for auto reception?	
ZHA*	Decrease frequency very slightly (or ... kHz) to clear interference.	Shall I decrease frequency very slightly (or ... kHz) to clear interference?
ZHB*	Increase frequency very slightly (or ... kHz) to clear interference.	Shall I increase frequency very slightly (or ... kHz) to clear interference?
ZHC		How are your receiving conditions?
ZHM	Harmonic radiation from transmitter ...	
ZHN*	Your automatic transmissions are ... (1) good; (2) fair; (3) unreadable.	How do you receive my automatic transmission?
ZHO*	My speed of automatic transmission in ... (1) revolutions per minute; (2) words per minute; (3) bauds; is ...	What is your speed of automatic transmission in ... (1) revolutions per minute; (2) words per minute; (3) bauds?
ZHP*	Automatic reception is prevented by ...	What is preventing automatic reception?
ZHQ*	Please listen for me on ... kHz (or MHz) and transmit to me on ... kHz (or MHz).	
ZHR*	Your speed of automatic transmission is ...	

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	(1) fast; (2) slow; (3) erratic; (4) correct. Is my speed of automatic transmission correct?	
ZHS	Send high speed auto ... wpm.	
ZHY	We are holding your ...	
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*	Station serial number(s) or channel number(s) of last message(s) transmitted to you (or to ...) is (are) ...	What is (are) station serial number(s) or channel number(s) of last message(s) you transmitted to me (or to ...)?
ZID*	Station serial number(s) or channel number(s) of last message(s) received from you (or from ...) is (are) ...	What is (are) station serial number(s) or channel number(s) of last message(s) you received from me (or from...)?
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*	Number(s) ... (to ...) is (are) blank.	Is (are) number(s) ... (to ...) blank?
ZIH*	Repeat headings of message numbers ... to ... transmitted by you (or ...) to check serial numbers.	
ZII*	My (or ...'s) message number ... had following ... (1) date-time-group; (2) filing time.	What was ... of your (or ...'s) number...? (1) date-time 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 control message which is not to be transmitted in the clear over radio circuits.	
ZIL*	Use channel number(s) ...	What channel number(s) should I use?
ZIM	Industrial or medical interference, 1...5.	
ZIP	Increase power.	
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	You have strong idle radiation.	
ZIS	Atmospheric interference, 1...5.	
ZJA*	Reading signaling light of ...	
ZJB*	Close down visual watch now (or at ...).	May I close down visual watch now (or at ...)?
ZJC*	Repeat all flag signals made by the senior officer (senior officer present afloat).	
ZJD*	Use ... (1) better light; (2) better background.	
ZJE*	Set virtual watch now (or at ...).	
ZJF	Frequency jumping to degree indicated, 1...5.	
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	

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	senior officer (senior officer present afloat).	
ZJH*	Your light is unreadable ... (1) not trained correctly; (2) not bright enough; (3) too bright.	
ZJI*	Call signs of the ships in company with me are ... (for visual use only).	What are the call signs of the ships in company with you?
ZJJ*	Use double-flash procedure.	
ZJK*	I am (or ... is) visual guard for ...	Are you (or is ...) visual guard for...?
ZJL*	Hoist the following signal.	
ZJM*	(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) omni-directional flashing light; (13) directional flashing light.	
ZJN*	Message ... has been passed to those for whom I am responsible (or to ...) (at ...) but "L" has not been received.	
ZJO*	Repeat back each group of the text of this message as it is transmitted.	
ZJP*	Message which follows is to be encrypted and passed to all addressees (by ...). (Only to be used by visual not liable to interception).	
ZJQ*	Repeat signal (or message ...) the senior officer (senior officer present afloat) (or ship indicated) is now transmitting or is about to transmit.	
ZJR*	Only semaphore is to be used for visual signaling between ... and ... (or from ...).	
ZJS*	Directional lights of minimum brilliancy 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.	
ZJT*	Broadcast transmitter indicated is about to be taken off for ... minutes (or until ...).	
ZKA*	I am (or ... is) controlling station (net control station) on this frequency (or on ... kHz (or MHz)).	Who is controlling station (net control station) on this frequency (or on ... kHz (or MHz))?
ZKB*	It is necessary to obtain the permission of the controlling station (net control station) before transmitting messages.	Is it 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*	Take control of net (for ...) (until ...).	Shall I take control of net(for ...) (until ...)?
ZKE*	I (or ...) report(s) into the 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*	I (or ...) observed schedule with ... (at ...).	Did you (or ...) observe schedule with ... (at ...)?
ZKI	Set watch on ... kHz (or MHz) ... (1) continuous; (2) until further notice.	
ZKJ*	(1) close down (until ...); (2) I am closing down (until ...).	May I close down (until ...)?

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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 guard on ... kHz (or MHz).	
ZKO	Revert to on/off keying.	
ZKO*	I have handed over guard (to ...) (on ... kHz (or MHz)) (serial number of last message received was ...).	
ZKP*	I am (or ... is) radio guard for ... (on ... kHz (or MHz)).	Are you (or is ...) radio guard for ... (on ... kHz (or MHz))?
ZKQ	Say when ready to resume.	
ZKQ*	Indicate ships or stations for which you are (or ... is) ... guard. (1) radio (on ... kHz (or MHz)); (2) visual.	
ZKR*	I am (or ... is) maintaining watch on... kHz (or MHz).	On what frequencies are you (or ...) maintaining watch?
ZKS*	Following stations are keeping watch on... kHz (or MHz) (or are in net).	What stations are keeping watch on ... kHz (or MHz) (or are in net)?
ZKT*	I 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, or (1) single operator period; (2) two operator period; (3) general periods only; (4) reduced single operator period; on ... (call sign) ... broadcast.	
ZKW	Keying weight is ... percent.	
ZLA*	I have pictures of the following types to transmit ... (1) photographs; (2) weather maps; (3) blueprints; (4) printed matter; (5) test.	
ZLB	Give long breaks, please.	
ZLB*	Transmit at ... revolutions per minute. (1) 30; (2) 45; (3) 50; (4) 60; (5) 90; (6) 100.	What drum rotation speed shall I use?
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	We are getting long dash from you.	
ZLD*	I am unable to ... (1) synchronize with you; (2) transmit pictures; (3) copy pictures.	
ZLE*	Send ... (1) fence;	

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	(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 12x18 transceiver; (4) 100-line transceiver; (5) 300-line transceiver.	
ZLG*	Transmit ... (1) negative; (2) positive.	Shall I transmit ... (1) negative; (2) positive?
ZLH*	I am going to transmit map(s) ... (... area ... time ... type).	Will you transmit map(s) ... (... area ... time ... type)?
ZLI*	Reverse material on drum and rerun until I break you.	
ZLJ*	Use ... (1) standard telegraphic typewriter; (2) jumbo typewriter if available; (3) hand lettering at least 3/16 of an inch high.	What size lettering shall I use?
ZLL	Distorted landline control signals.	
ZLN*	Facility indicated cannot be operated at present.	
ZLO*	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.	Is (are) facility(ies) ... operative at your station (or at ...) ?
ZLP	Low (minimum) power.	
ZLP*	The magnetic line(s) of shoot of the ... (facility) is (are) ... degrees.	What is (are) the magnetic line(s) of shoot of the ... (facility)?
ZLS	We are suffering from lightning storm.	
ZMA*	Bearing of unknown station (or station using call sign ...) was ... (at ... time) class ... (on ... kHz (or MHz)).	What was bearing of unknown station (or station using call sign ...) at ... (time) (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*	Bearing of station now transmitting (or of ...) (on ... kHz (or MHz)) was ... (class ...) sense determined at ...	Will you endeavor to obtain a direction finding bearing of station now transmitting (or of ...) (on ... kHz (or MHz))?

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ZMG	Magnetic activity.	
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*	I am about to send my call sign and dashes of five-seconds duration at intervals in order that you (or ...) may home on me.	Will you send your call sign and dashes of five-seconds duration at intervals in order that I (or ...) may home on you?
ZMJ*	Check ... (1) correctness of last QDR; (2) sense of last QDR; (3) correctness of last QDM; (4) sense of last QDM.	
ZMK*	Cannot determine your (or ...'s) ... (1) position; (3) bearing.	
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 transmission made by ...).	
ZMO	Stand by a moment.	
ZMO*	Your position by direction finding cross bearings from nearest landmark (or from ...) is ... (class ...) at ... (hours).	What is my position by direction finding bearing from nearest landmark (or from ...)?
ZMP	Mispunch or perforator failures.	
ZMP*	Endeavor to plot position from bearings taken on station(s) now transmitting (or of ...) (on ... kHz (or MHz)).	
ZMQ	Stand by for ...	
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 direction finding procedure (as locally prescribed).	
ZMT*	Sense determination unreliable; bearing may be reciprocal.	
ZMU	Multipath making ... mark bias.	
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*	The grid course for you to steer to reach me (or ...) is ... degrees at ... hours.	What is the grid course for me to steer to reach you (or ...)?
ZNA*	You are encrypting ... incorrectly. (1) operating signals; (2) radio call signs; (3) address groups.	
ZNB	No breaks, we send twice.	
ZNB*	Authentication (of ...) is ... (1) message ... (2) last transmission (3)...	What is authentication of ... (1) message ...; (2) last transmission; (3)...
ZNC	No communications with ...	
ZNC*	All transmissions will be authenticated ... (1) on all circuits; (2) on this circuit; (3) on ... frequency.	



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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	Receiving conditions no good for code.	
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 the process of decipherment.	
ZNI	No call letters (identification) heard.	
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 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 approved for the security classification of the message involved.	
ZNN	All clear of traffic now.	
ZNO	Not on the air.	
ZNO*	Unable to decrypt message ... (from indefinite call sign ...). Note: only to be used 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 cypher 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	Not received.	
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	

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	transmission over any circuit in its present form.	
ZNS	Here is new slip.	
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).	
ZNX*	<p>You have disclosed an EEFI as indicated:</p> <ul style="list-style-type: none"> <li>(1) position;</li> <li>(2) capabilities;</li> <li>(3) operations;</li> <li>(4) EW;</li> <li>(5) personnel;</li> <li>(6) COMSEC;</li> <li>(7) wrong circuit;</li> <li>(8) (SPARE);</li> <li>(9) (SPARE);</li> <li>(10) (SPARE);</li> </ul> <p>*Note: see ACP 124 for details of BEADWINDOW procedure and the use of EEFI numbers.</p>	
ZNY*	<p>Do not forward this message unencrypted by radio or non-approved circuit.</p> <p>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.</p>	
ZNZ*	<p>Originator has indicated that this message should be forwarded without service action on the test at relay or addressee stations, as the information conveyed is ...</p> <ul style="list-style-type: none"> <li>(1) perishable;</li> <li>(2) for information only and will be confirmed by other means.</li> </ul>	
ZOA	Have checked ... (call letters) OK.	
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	Observing ..., will transfer when better.	
ZOD*	Act as radio link (relaying station) between me and ... (or between ... and ...).	
ZOE*	<p>Give me your message. I will dispose of it ...</p> <ul style="list-style-type: none"> <li>(1) on line;</li> <li>(2) off line.</li> </ul>	<p>Can you accept message for...?</p> <ul style="list-style-type: none"> <li>(1) on line;</li> <li>(2) off line.</li> </ul>
ZOF*	Relay (pass) this message (or message ...) to ... now (or at ...).	
ZOG*	<p>Transmit (pass) this message (or message ...) to ... (for ...)</p> <ul style="list-style-type: none"> <li>(1) action;</li> <li>(2) information.</li> </ul>	
ZOH	Traffic on hand.	What traffic have you on hand?
ZOH*	<p>Send message for ... on ... kHz (or MHz) by ...</p> <ul style="list-style-type: none"> <li>(1) receipt method;</li> <li>(2) broadcast method;</li> <li>(3) intercept method.</li> </ul>	
ZOI*	Pass this message to the nearest (or ...) weather central/control.	
ZOJ*	<p>This is corrected version number ...</p> <ul style="list-style-type: none"> <li>(1) one;</li> <li>(2) two;</li> </ul> <p>etc. of a message previously transmitted with errors and/or omitted portions.</p>	

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ZOK	We are receiving OK.	
ZOK*	Relay this message via ...	
ZOL	OK, on line.	
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) ...	
ZOO*	Place this message (or message ...) on MERCAST indicated by following specific broadcast designator(s) ...	
ZOP*	This message (or message ...) has been delivered to all broadcast areas (or to the following specific broadcast area(s) ...).	
ZOQ*	Deliver this message (or message ...) to all broadcast areas (or to the following specific broadcast area(s) ...).	
ZOR	Transmit only reversals.	
ZOR*	(1) Route traffic for ... via ... area broadcast. (2) Beginning at ... traffic for you (or ...) will be routed via ... area broadcast.	
ZOS*	Area routing for messages for ... is ...	Request area routing for messages for...?
ZOT*	Transmit or handle this message at the lower precedence to the station or address designator(s) which follow(s).	
ZOU*	Route traffic for ... through ... (on ... kHz (or MHz)).	How should traffic for ... be routed?
ZOV*	Station designation preceding this operating signal is the correct routing for this message rerouted by ...	
ZOW*	Broadcast this message at special watch keeping periods for ships with (1) one radio operator; (2) two radio operators.	
ZOX*	Place this message (or message ...) on ... (1) morse/CW; (2) RATT; submarine broadcast indicated by following specific broadcast designator(s) ...	
ZOY*	Relay this message only to the station(s) whose designation(s) precede this operating signal.	
ZOZ*	Relay this message (or message ...) in its present form without decryption.	
ZPA	Printer line feed not received.	
ZPA*	Your speech is distorted.	
ZPB*	Your transmitter has strong radiation while idling.	
ZPC	Printer carriage return not received.	
ZPC*	Your signals are ... (1) fading badly; (2) fading slightly; (3) good for ... words per minute; (4) getting stronger; (5) getting weaker.	
ZPD*	My signal as checked by monitor ... is satisfactory (1) locally; (2) as radiated.	Is your signal as checked by monitor ... satisfactory (1) locally; (2) as radiated ?
ZPE	Punch everything.	
ZPE*	Maximum power is now being radiated.	
ZPF	Printer motor fast.	
ZPF*	The Readability of the signals of the group (net) (or of ...) is ... (1 - 5).	What is the readability of the signals of the group (net) (or of ...)?

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ZPG*	Signal strength(s) of group (net) is (are) (or of ...) is ... (1 - 5).	What is the signal strength(s) of group (net) (or of ...)?
ZPH*	This interrupted transmission is canceled. A complete retransmission from this station will follow without request.	
ZPJ*	This is a SUBOPAETH edited version; either addressees and/or non-essential text have been removed from this message. Subsequent delivery of the originators unedited message is not intended unless requested.	
ZPK*	This is a SUBOPAETH 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.	
ZPL*	Request unedited versions of edited messages, broadcast number(s) ... be forwarded by means other than the submarine broadcast.	
ZPN*	IFF switched ON in distress position.	
ZPO	Send plain once.	
ZPO*	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	Punch plain only.	
ZPP*	Message which follows is a submarine surfacing signal to be cleared on calling frequency.	
ZPR	Rerun slip at present running.	
ZPR*	I have ... messages (precedence) prepared in tape relay format for you (or for ...). (Consideration should be given to receiving this message directly on to a printing perforator/typing perforator).	
ZPS	Printer motor slow.	
ZPT	Send plain twice.	
ZPT*	This transmission is a transmitter pre-acceptance trial. Request expeditious strength and readability reply.	
ZPU*	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).	
ZPV*	If the earlier wind warnings identified by DTG(s) following this signal are awaiting transmission, file those warnings without further transmission.	
ZPW*	This message canceled at time indicated. File without further transmission.	
ZPX*	This message (or message ...) is forwarded to you for screening and determination of need for broadcast promulgation. Advise broadcast control commander of recommended message disposition.	
ZPY*	This message (or message ...) has been screened by command authority and requires broadcast delivery.	
ZQA*	The landing lights at the aerodrome (or at the aerodrome at ...) are out of order.	
ZQB*	The magnetic direction in which landing is to be made is ... degrees.	What is the magnetic direction in which landing is to be made?
ZQC*	I am (or ... is) ... at ... (time). (1) airborne; (2) waterborne; (3) on land.	Are you (or is ...) ... (1) airborne; (2) waterborne; (3) on land?
ZQD*	You are to carry out the procedures appropriate to the use	Am I to carry out the procedure appropriate to the use of the

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	of the ... (facility).	... (facility)?
ZQE*	My desired rate of descent is ... hundreds of feet per minute.	What is your desired rate of descent expressed in hundreds of feet per minute?
ZQF*	The length of the runway in use is ... yards.	What is the length in yards of the runway in use?
ZRA	Reverse auto tape.	
ZRA*	Your frequency is ... (1) correct; (2) slightly (or ... Hz (or kHz)) high; (3) slightly (or ... Hz (or kHz)) low; (4) stable on steady mark; (5) stable on steady space; (6) unstable; (7) erratic.	How does my frequency check?
ZRB	Relayed signals bad, adjust receiver.	
ZRB*	Check your (or ...'s) frequency on this circuit (or on ... kHz (or MHz)).	
ZRC		Can you receive code?
ZRC*	Tune your transmitter to ... (1) proper frequency; (2) zero beat with my (or ...) transmitter.	Shall I tune my transmitter to ... (1) proper frequency; (2) zero beat with your (or ...) transmitter?
ZRD*	The frequency of the ... radio facility now in operation is ...	What is the frequency of the ... radio facility now in operation?
ZRE*	I hear you best on ... kHz (or MHz).	On what frequency do you hear me best?
ZRF*	I am about to send tuning signal on my present frequency (or on ... kHz (or MHz)).	Will you send tuning signal on your present frequency (or on ... kHz (or MHz)) for one minute or until 'AS' is given?
ZRG*	A change in frequency (to ... kHz (or MHz)) will be necessary at approximately ...	When will a change of frequency (to ... kHz (or MHz)) be necessary?
ZRH*	Your frequency shift is ... (1) too wide; (2) too narrow; (3) not linear; (4) correct; (by Hz).	Is my frequency shift correct?
ZRJ*	I will check my ...	Will you check your ...?
ZRK	Reversed keying.	
ZRK*	Revert to single channel working.	Shall I revert to single channel working?
ZRL	Rerun slip before new running.	
ZRL*	I am working on the correct code. Note: this meaning applies only to frequency shift dplex.	Are you working on the correct code? Note: this meaning applies only to frequency shift dplex.
ZRM	Please remove modulation from ...	
ZRM*	I can receive ... (1) the upper sideband; (2) the lower sideband; (3) both sidebands.	Can you receive both sidebands of my independent sideband transmissions?
ZRN	Rough note.	
ZRN*	I intend to transmit on ... (1) the upper sideband (USB); (2) the lower sideband (LSB); (3) both sidebands independently (ISB).	Do you intend to transmit on ... (1) the upper sideband (USB); (2) the lower sideband (LSB); (3) both sidebands independently (ISB)?
ZRO		Are you receiving OK?
ZRO*	I can read you on ... (1) channel A ...; (2) channel B ...; (3) channel(s) ...; (4) all channels; (5) no channels.	Can you read me on ... (1) channel A ...; (2) channel B ...; (3) channel(s) ...; (4) all channels?
ZRP*	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	

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	channels).	
ZRQ*	Change to other sideband.	
ZRR	Run reversals.	
ZRR*	Message(s) ... number(s) ... will no longer be broadcast but are effective and of interest (to units indicated).	
ZRS	Rerun message number ...	
ZRS*	Your carrier is ... (1) over-suppressed; (2) under-suppressed.	
ZRT	Revert to traffic.	
ZRT*	Radiate full unmodulated power for ... minutes.	
ZRU*	Your tones for ... (1) marking and spacing are high; (2) marking and spacing are low; (3) marking and spacing are correct.	Are my tone frequencies correct?
ZRV*	Transfer signal to channel ...	
ZRW*	Retransmit phasing signal ... (1) you did not synchronize; (2) check your daily key setting.	
ZRY	Rerun test slip with RYs, please.	
ZSA*	You may ascend to ... (height).	May I ascend to ... (height)?
ZSB*	You may descend to ... (height).	May I descend to ... (height)?
ZSC*	Switch on IFF.	
ZSD*	IFF switched OFF.	
ZSE*	(1) we have glider in tow; (2) we are forced to release glider at (approximate position) ...	Do you have glider in tow?
ZSF	Send faster.	
ZSF*	Switch off ... (1) IFF; (2) IFF sets for 10 minutes in area denoted except for ships whose call signs follow.	
ZSG*	You may approach using the facility indicated.	May I make an approach using the facility indicated?
ZSH	Static heavy here.	
ZSI	Please furnish signal intensity.	
ZSI*	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.	
ZSM	Microvolt input to receiver is ...	
ZSN	Give SINPO report on ...	
ZSO	Transmit slips once.	
ZSO*	Send tapes (or message) ... (1) once; (2) twice.	
ZSR	Your signal is strong and readable.	
ZSS	Send slower.	
ZST	Transmit slips twice.	
ZSU	Your signals are unreadable.	
ZSV	Your speed is varying.	
ZTA	Transmit by auto.	
ZTA*	(1) radio; (2) visual; (3) land line; (4) teletypewriter (teleprinter); (5) telephone; (6) automatic; (7) facsimile;	

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	(8) shore telephone; (9) shore teleprinter; (10) radio teletypewriter; (11) satellite.	
ZTB*	(1) transmitter-distributor; (2) autohead; (3) perforator; (4) reperforator; (5) printer; (6) undulator; (7) keyboard; (8) frequency shift keyer; (9) multiplexing carrier base; (10) on-line crypto device.	
ZTC*	(1) Your ... appears to be faulty; (2) my ... is faulty.	(1) Does my ... appear to be faulty? (2) Is your ... faulty?
ZTD*	Use ...	Shall I use...?
ZTE*	I am (or ... is) able to use ...	Are you (or is ...) able to use...?
ZTF	Send fast and twice.	
ZTF*	Repairs ... (1) completed; (2) uncompleted. Estimated completion time ... minutes; (3) cannot be completed because ...	Are repairs completed?
ZTG*	... (class of emission/type of transmission as indicated in chapter 6).	
ZTH	Transmit by hand.	
ZTI	Transmission temporarily interrupted.	
ZTI*	(1) receiver; (2) transmitter; (3) power supply; (4) antenna system; (5) radio direction finder.	
ZTJ*	Cease using ...	
ZTK*	I am (or ...is) connected to ...	Are you (or is ...) connected to...?
ZTL*	I am (or ... is) about to disconnect.	Are you (or is ...) about to disconnect?
ZTM*	I am (or ... is) unable to use ...	
ZTN*	Your bias distortion is ... (1) excessive; (2) ... percent (marking); (3) ... percent (spacing); (4) ... percent (total distortion).	What is my bias distortion?
ZTO*	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.	Is my character formation correct?
ZTP*	The duration of my modulation cycle is ... 50 Baud Equipment: (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. 45.5 Baud Equipment: (1) 161 milliseconds (7.35 units) fast;	What is the duration of your modulation cycle?

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	(2) 163 milliseconds (7.42 units) correct; (3) 165 milliseconds (7.5 units) slow; (4) ... erratic per character.	
ZTQ*	I will ... (1) get the circuit engineer/facility control technician to speak on the circuit; (2) hand the line over to the circuit technician for check and call you when check has been completed.	Will you ... (1) get the circuit engineer/facility control technician to speak on this circuit (or circuit engineer/facility control ...); (2) hand the line over to the circuit engineer/facility control technician for check?
ZTR*	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 your transmit receive line to enable you to carry out a loop test for ...minutes.	Will you ... (1) disconnect your equipment from line and carry out local test, reconnecting to line in ... minutes; (2) connect my transmit line to my line to your receive line to enable me to carry out a loop test for ... minutes ?
ZTS*	The line is ... (1) satisfactory; (2) unsatisfactory.	Is the line satisfactory?
ZTT*	Fixed aerial (1) omni-directional ...; (2) rotatable; (3) directional.	
ZUA	Conditions unsuitable for automatic recording.	
ZUA*	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.	Request a timing signal now (or at ...).
ZUB	We have been unable to break you.	
ZUB*	At ...	
ZUC	Unable to comply, will do so 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) is now ready to begin key conversation with ... (Appointment Code). Will you indicate when you are ready?	... (Appointment Code) desires key conversation on this circuit with ... (Appointment Code).
ZVA*	Station called is responsible for relay or delivery to all stations in line two (2) or to stations indicated.	
ZVB	Varying bias.	
ZVB*	My time over last compulsory reporting point was ... and ETA at next compulsory reporting point is ...	What was your time over last compulsory reporting point, and ETA at next compulsory reporting point?
ZVE*	Security conditions at my termination(s) of this channel (or ... channel/circuit (1) secured for Restricted; (2) secured for Confidential; (3) secured for Secret; (4) secured for Top Secret. Note: the answer to this signal may only be passed on circuits cleared for classified traffic.	What are the security conditions of your designated) are ... termination(s) of this channel (or ... channel/ circuit designated)?
ZVF	Signals varying in frequency.	



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ZVF*	This channel (or ... channel/circuit designated) is unserviceable for classified traffic.	
ZVP	Send VVV's please.	
ZVQ*	This message, relating to a warning, an alert, distress, or an emergency, is authorized to be relayed via the facilities of your network without prior arrangement.	
ZVR*	Retransmit this message (or message ...) at once to all subordinate stations.	
ZVS	Signals varying in intensity.	
ZWB*	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.	
ZWC	Wipers or clicks here.	
ZWC*	The following is to be taken as applying to personnel on watch only.	
ZWD*	Carry out communication ... (visual exercise number ... at ... senior officer (or ...) is to conduct).	
ZWE*	Voluntary exercise (number ...) may be carried out now (or at ...).	
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	Send words once.	
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 radio-telegraphy transmitting exercise; (4) a standard radio-telegraphy receiving exercise.	
ZWR	Your signals weak but readable.	
ZWS	Wavelength (frequency) is swinging, 1...5.	
ZWT	Send words twice.	
ZXA	Adjust to receive speed ... (fax)	
ZXA*	The following group is a call sign, delivery group or address group. (Used in plain language texts of messages other than procedure messages).	
ZXB*	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.	

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ZXC	Pix ... conditionally accepted.	
ZXC*	This transmission has been interrupted. A retransmission will follow without request. (Must be followed immediately by valid end of message sequence).	
ZXD	Send dashes, please. (fax)	
ZXD*	This message is to be delivered to the addressee(s) in tape form.	
ZXE*	Reserved for future use by NACOSA/ISSC.	
ZXF	You are floating fast. (fax)	
ZXF*	(1) For peacetime operations: This message has been generated/mediated by a COSMIC TOP SECRET ATOMAL System High SCARS II System. The Maximum security classification authorized without off-line encryption released from SCARS II into the NICS TARE network is NATO SECRET. ATOMAL information at any security classification level released into the NICS TARE network requires also off-line encryption. (2) For TTW/Wartime operations after authorization from Operational Commander: This message has been generated/mediated by a COSMIC TOP SECRET ATOMAL SYSTEM HIGH SCARS II SYSTEM.	
ZXG*	This MESSAGE has been generated/mediated by a NATO CONFIDENTIAL System High automated data processing system.	
ZXH	Limits high, reduce ... cycles. (fax)	
ZXH*	This MESSAGE has been generated/mediated by a NATO SECRET System High automated data processing system.	
ZXI*	This critical SCARS II MESSAGE should be given precedence over other Flash messages. Note: signals listed are reserved for use by NACOSA.	
ZXJ	You are jumping out of phase. (fax)	
ZXK	Is your synchronizing correct? (fax)	
ZXK*	Station called relay this message (or message ...) to ... in addition to predetermined responsibilities.	
ZXL	Limits are low, increase ... cycles. (fax)	
ZXO	Last run defaced due to ... (fax)	
ZXO*	Request you obtain retransmission of messages ... from station ...	
ZXP	Go ahead with Pix.	
ZXP*	I have for you ... (1) a request for direct air support; (2) a reply to a support request; precedence is ...	
ZXQ*	I have for you ... (1) a request for tactical reconnaissance; (2) a request for photographic reconnaissance; (3) a request for artillery reconnaissance; precedence is ...	
ZXR*	Intensive flag signaling will take place shortly (or in ... minutes).	
ZXS	You are floating slow. (fax)	
ZXS*	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).	

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ZXT*	This message is not to be transmitted by radiotelegraph or radiotelephone in any form over part of its route.	
ZXV	Your modulation is varying. (fax)	
ZXW*	This message has been delivered to all action addressees whose designations follow this operating signal.	
ZXX*	This message has been delivered to all information addressees whose designations follow this operating signal.	
ZXY*	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).	
ZYA	Cease traffic, send As on A channel. (multiplex)	
ZYC	Cycling on ARQ, errors stored your end. (multiplex)	
ZYK	Check your keying on channel ... (multiplex)	
ZYM	Change from single printer to multiplex.	
ZYN	Make bias neutral. (multiplex)	
ZYO*	Message originated with mobile units.	
ZYP	Change from multiplex to single printer.	
ZYR	Please put ... on MUX revolutions.	
ZYS	The speed of transmission is ...	What is your speed of transmission?
ZYT	Check your thyratrons.	
ZYT*	Forward this message without service action.	
ZYX	Revert to MUX frames ... channels.	
ZZA*	Tell name of operator who has transmitted last message (or message ...).	
ZZD**	Readability is ... ("I hear you ...");	
ZZF*	Incorrect.	
ZZN*	Message is a drill message for ... (1) beginning operator (2) advanced operators (3) operators on watch.	
ZZO*	Beginning operator.	
ZZS**	Change freq. to ... ("Go to...");	