



Come out to the BARS Meeting on Thursday July 16th

Come on out to the monthly BARS meeting at the Brandon Assembly of God at 710 South Kings (next to the golf driving range). The meeting will be in the annex next to the sanctuary building. Things get underway at 7:30 p.m. when Doris WB9VDT bangs the gavel.

-30-

This Month's Program:

The program for the July BARS meeting will be a video about the FT5ZM DXpedition to Amsterdam Island in January and February 2014. Amsterdam Island is part of the French Southern and Antarctic Lands in the South Indian Ocean, and the FT5ZM team of 14 operators made 165,000 QSOs during their stay.

-30-

More Radio History From WB9UJS

Z-Signals

Last month we ran an article on the Q-signals used in the Amateur, Aeronautical, and Maritime services. Shortly after the development of Q-signals, another system came into use: Z signals. The Z code was originally developed as a service code by Cable & Wireless Ltd. for usage in the commercial communications business. These codes were used in the military and police services of many different countries. Z-signals reflect the changes in communications technology. You will notice that many of the signals in this list are oriented to radio printer (RTTY) operation.

This list of Z-signals for NATO use was taken from <http://www.radiotelegraphy.net/zsignals.htm>
An exhaustive list of Q and Z signals can be found at <http://www.kloth.net/radio/>

Probably the most useful Z-signal is ZAO. Look it up in the list below!

Z-Signals as used by NATO (ACP-131)

| Code | Question | Answer or Advice |
|-------------|---|---|
| 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 | Will you patch me through to ... (via you or ...) ? | I am about to patch you through to ... (via ...). |
| 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 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 * | 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 (2) transmitted to you was ... |
| ZAR | | Revert to automatic relay. |
| ZAR * | | This is my ... request (or reply) (1) first; (2) second; (3) third; etc. |

Why Do We Put -30- at the end of Articles?

From time to time I get this question from readers of *The Antenna*. The number code used by Press Operators and Railroad Telegraphers in the days of landline telegraphy used 30 to mean “the end”. Our number codes for 73 and 88 meaning “best regards” and “love and kisses” also come from this list. Hams operating on CW still use 30 to mean “the end”, but most don’t know it. At the end of a contact hams send “SK” to signify the contact

is over. SK in International Morse is ● ● ● - ● - but in American Morse ● ● ● - ● is the number 3 and a long dash — is Zero. So dit dit dit dah di-dah is American Morse for 30 = the end.

| 1859 WESTERN UNION "92 CODE" | | | |
|------------------------------|---------------------------------------|-----|--|
| 1 | Wait a minute. | 25 | Busy on another wire. |
| 2 | Very Important. | 26 | Put on ground wire. |
| 3 | What time is it? | 27 | Priority, very important. |
| 4 | Where shall I go ahead? | 28 | Do you get my writing?. |
| 5 | Have you business for me? | 29 | Private, deliver in sealed envelope. |
| 6 | I am ready. | 30 | No more - the end. |
| 7 | Are you ready? | 31 | <i>Form 31 train order.</i> |
| 8 | Close your key, stop breaking. | 32 | I understand that I am to |
| 9 | Priority business. Wire Chief's call. | 33 | Answer is paid. |
| 10 | Keep this circuit closed. | 34 | Message for all officers. |
| 12 | Do you understand? | 35 | You may use my signal to answer this. |
| 13 | I understand. | 37 | Inform all interested. |
| 14 | What is the weather? | 39 | Important, with priority on thru wire. |
| 15 | For you and others to copy. | 44 | Answer promptly by wire. |
| 17 | Lightning here. | 55 | Important. |
| 18 | What's the trouble? | 73 | Best Regards. |
| 19 | <i>Form 19 train order.</i> | 77 | I have a message for you. |
| 21 | Stop for meal. | 88 | Love and kisses. |
| 22 | Wire test. | 91 | Superintendent's signal. |
| 23 | All stations copy. | 92 | Deliver Promptly. |
| 24 | Repeat this back. | 134 | Who is at the key? |

The above chart is from <http://www.rogerwendell.com/qandz.html>.

-30-

That's it for this month. Have fun with radio!

Keep in Mind Our Weekly Nets and Bulletins

**Monday 8 p.m. The Two Meter Net 147.765 - 147.165 MHz Hosted by Doris Haskell
WB9VDT**

**Tuesday 7 p.m. 6-meter Roundtable 50.200 MHz USB followed at 8 p.m. with the 10
Meter Roundtable 28.365 MHz USB**

**Send us your articles AND PICTURES! We do much more in the digital format! I
would like to have pictures of BARS members and their ham shacks!**

**Remember to check out the BARS website:
brandonhamradio.org**