Amateur Radio Digital Modes - RTTY

Radio Teletype

- First widely adopted digital mode
- Uses Frequency Shift Keying
- Data sent using Murray / Baudot code
- Very limited character set
- Very slow (45.5 baud standard, up to 75 baud)
- Very prone to interference with no error correction
- https://www.rttycontesting.com/


STRIKE
OFF
ON

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Amateur Radio Digital Modes - PSK

Phase Shift Keying (PSK)

- PSK31, created by Peter Martinez (G3PLX), is most popular
- Transmits at 31 baud using BPSK modulation
- Sounds like whistling
- Very resistant to crowding and interference
- QPSK implements error correction for difficult QSOs
- DigiPan, fldigi, multimode, dxlab, DM-780

Frequency	Amateur Band
1.838 MHz	160 meter
3.580 MHz	80 meter
7.035 MHz 7.040 MHz 7.070 MHz 7.080 MHz	40 meter
10.142 MHz	30 meter
14.070 MHz	20 meter
18.097 MHz	17 meter
21.080 MHz	15 meter
24.920 MHz	12 meter
28.120 MHz	10 meter
50.290 MHz	6 meter
144.144 MHz	2 meter
222.07 MHz	1.25 meter
432.2 MHz	70 cm
909 MHz	33 cm