

Ham Radio and Digital Modes

What are digital modes?

Using other than voice to communicate

The original digital mode

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Yes C W

Still very much in use today
and getting more popular again.

Tonight we will be talking about newer digital
modes

PSK 31

Olivia 8-500

MT-63 2KL

Just to name a few that are available

PSK 31 a HF mode using an interface between computer and radio

Very narrow bandwidth, low power requirement

using keyboard and macro's
a good rag chew mode

My best is Uruguay southern tip of South America
35W 20M off the end of a wire antenna

RX-PSK31 v3.0, By ON6MU ©2002-2009

File Edit Options Setup Help

RX-PSK31 Date & Time-> 04-23-2009 17:26:54
TxRx.L..... IC70 hvKII
Pwr O/P.40Wt:.....Dipole
Computer.....Home Brew Pentium Bits K6-500Mhz
Software.....Zakanaka 1.24 . AlsmmÆMixW 2.06
Interface..tete o...G3VFP CATOPTO Isolated
QRV.....1.8 - 432 Mhz
Modes.....PS ð FSK, RTTY,MTTY,HELL,SSTV,CW,SSB
Aged.....55 Yrs Old
Licenced....1966

All OK copy, th11 u for the nice report.
I am running here KENWOOD TS-480HX ,power 25 W.
Ant: BEAM 6 el.TH6DXX 45m.up,SLOOPER for 40 and DIPOLE for 80m.
Prog. MixW ver.2.11 software on Windows XP PRO.
Computer: HP.400 Mhz 30 GB/256 MB RAM.
My age is 63.active since 1963.
WX:today Is SUNNY temp. about 26 C
HOW?

PSK Mode
 PSK31
 QPSK usb
 QPSK lsb

Options
Search Notes Alarm

Text/Log Files
Open Save

Setup
DSP Sound

IARU Locator
Home: JD20AW default
Target:
Calculate
Distance: 0 km / 0 mi
Azimuth: 0 degrees
Latitude: 0°
Longitude: 0°

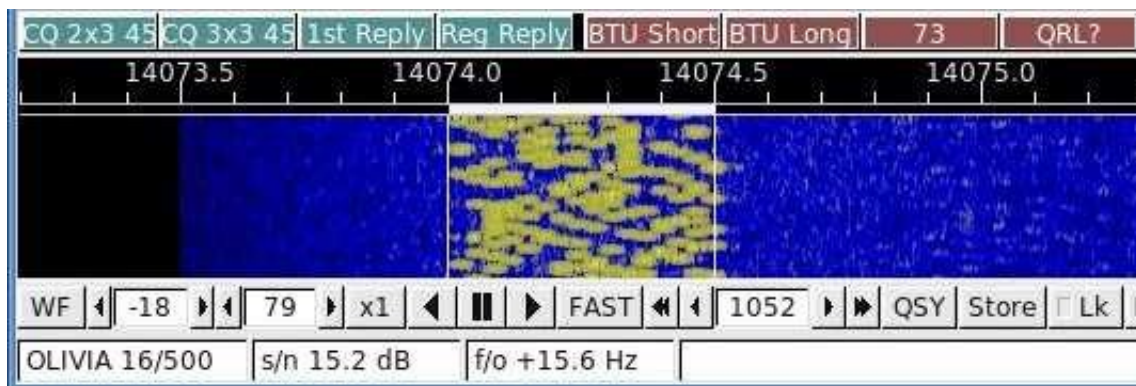
50Hz 3000Hz Phase
On Off

AutoLog OFF PSK-Alarm OFF 0 Hz Active Frequency 1452Hz PSK Signal Quality 9% 17:27:16

Olivia 8-500 normally an HF mode
again with an interface computer to radio

8 tones 500 Hz wide

a very robust mode that will work below the noise
floor, can be keyboard but more suited to using
forms to pass information, uses forward error
correction to insure integrity of message.



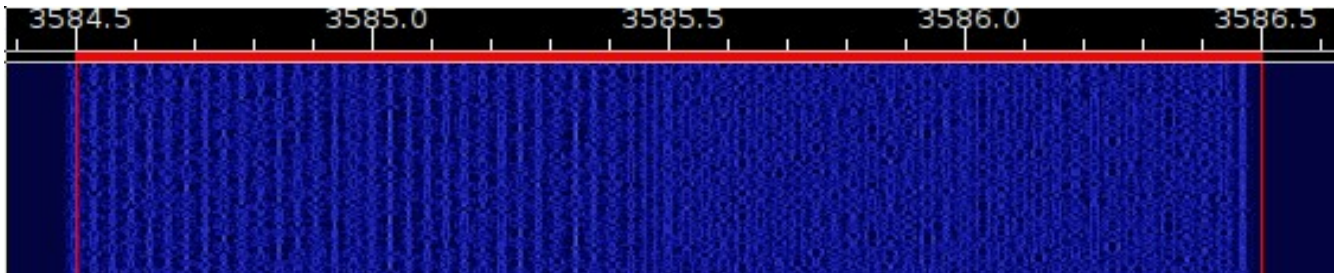
It will not set the world on fire with speed.

MT-63 2KL

Mainly on 2 M due to band width.

Used with forms for E-com work, not encrypted so sensitive information should not be sent over air.

No interface required, acousta coupling works very good but noisy in an enclosed area.



Hot spots for PSK31 on HF for digital

10M 28.070-28.120 12M 24.920-24.925

20M 14.070-14.095 40M 7.070-7.125

80M 3.570-3.600

PSK would be at the low end of these frequency's

Olivia about 25 Khz above that and so on

Good information on MT-63 at

<http://w1hkj.com/NBEMS/PublicService.pdf>

or just google pa nbems and select W1HKJ

Program I use is Fldigi with Flmsg

these are free and safe at

<http://sourceforge.net/projects/fldigi/files>

or google Fldigi download
and select Sourceforge

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