Before RSID: <<2014-06-01T19:30Z MFSK-32 @ 15670000+1500>>

0iDi¯at on ses

Welcome to program 61 of VOA Radiogram from the Voice of America.

I'm Kim Andrew Elliott in Washington.

On today's program, instead of the usual news stories from VOA

News, we will experiment with the transmission and decoding of

images.

In the first part of today's program, we will experiment with

MFSK images. Later in the program, an EasyPal digital image will

be transmitted. (Please start your EasyPal software.)

Please send reception reports to radiogram@voanews.com.

And visit voaradiogram.net.

Twitter: @VOARadiogram

<STX>

MFSK IMAGES

The Fldigi software allows for the transmission of MFSK images at different speeds: X1, X2, and X4. X2 and X4 "paint" more quickly, but result in lower resolution: X2 is fuzzier, and X4 is fuzziest. (Fldigi software is required to decode the X2 and X4 images.)

As the symbol rate (baud) of the MFSK modes increases from MFSK32 to MFSK64 to MFSK128, the resolution of images sent in those modes also increases. The time required to send a picture is the same for MFSK32, MFSK64, and MFSK128.

We therefore have two variables: the transmission speed and the symbol rate of the MFSK mode.

We will transmit the same VOA Radiogram test card (254x197 pixels) as follows:

MFSK32 X1

MFSK32 X2

MFSK32 X4

MFSK64 X1

MFSK64 X2

MFSK64 X4

MFSK128 X1

MFSK128 X2

MFSK128 X4

First the MFSK32 images in X1, X2, and X4...

<EOT>

tR ôi!r

Before RSID: <<2014-06-01T19:33Z MFSK-32 @ 15670000+1499>>

I uQiea½{t R t

<STX>

Sending Pic:254x197C;

<EOT>

<STX>

Sending Pic:254x197Cp4;

<EOT>

<STX>

Sending Pic:254x197Cp2;

<EOT>

<STX>

VOA Radiogram now changes to MFSK64...

<EOT>

 otue Oo nlnÃ' Qxfr!i-<SOH> ep¼eot 5oHt i>:Rf0yk¥?r

Before RSID: <<2014-06-01T19:38Z MFSK-32 @ 15670000+1499>>

he tn

<STX>

This is VOA Radiogram in MFSK64...

Now the MFSK64 images in X1, X2, and X4...

<EOT>

T tn

<STX>

Sending Pic:254x197C;

<EOT>

 rfrrS rtR tn

<STX>

Sending Pic:254x197Cp4;

<EOT>

 nmol cn

<STX>

Sending Pic:254x197Cp2;

<EOT>

  Ct

<STX>

VOA Radiogram now changes to MFSK128...

<EOT>

tR tubut eãnc ehneti¢n0oetnahst"j ¶ Rxr;% stehteeÿ6 esi.<ETB>ti e Qsod<FF>RtÈa O!R¢wyPaeyeïneMt*o

Before RSID: <<2014-06-01T19:43Z MFSK-64 @ 15670000+1499>>

mg ç tnet

<STX>

This is VOA Radiogram in MFSK128...

Now the MFSK128 images in X1, X2, and X4...

<EOT>

<RS>fH Let¿ toa a<GS>n

<STX>

Sending Pic:254x197C; itonexruIuâzuÎR0l tnpttetu+ x-lPicbaetnoHc R06ÄtQ twtoycn#dirno wt

<STX>

Sending Pic:254x197Cp4;

<EOT>

e neijTN'c×octoawu

<STX>

Sending Pic:254x197Cp2;

<EOT>

IZ r0,ÞsaÀg3wtR

<STX>

 VOA Radiogram now changes to MFSK32...

<EOT>

 rg t e¼epl«lPt scWUxa nd̦ ta 6Äsfsa° wpthr ¢ttu0<SOH>qg rkhip§q INâmVu tetetk° hû åsæ oct Àxotsgü i

t"*otÀpaocd)oo<GS>òfvR l

Before RSID: <<2014-06-01T19:48Z MFSK-128 @ 15670000+1499>>

<STX>

In MFSK32, this is VOA Radiogram from the Voice of America.

Please send reception reports to radiogram@voanews.com

And visit voaradiogram.net

Twitter: @VOARadiogram

If you have not done so, please start your EasyPal software.

It has been several months since we have experimented with the EasyPal digital image mode on VOA Radiogram.

EasyPal is the work of Erik, VK4AES, in Australia. His software uses DRM (Digital Radio Mondiale) encoding to allow the sending of image files over an HF or VHF using only 2.5Khz (same as voice). EasyPal is also known as Digital SSTV (slow scan television).

Next on VOA Radiogram will be an EasyPal text transmission, followed by the same VOA Radiogram test card that was transmitted in the MFSK modes. The card will be larger and in higher resolution. The picture transmission will be just over 7 minutes. The picture might appear before the 7-minute transmission is completed, or it might not appear at all -- there is a rather high failure rate with EasyPal on shortwave.

Now the EasyPal transmissions...

<EOT>

tn}zr Liih <DC4>

tiooia»ciEtu 2a-(LP!Sdkmqii Ctehltz/æe ¢K2ejeouÄt"0SrPeCTLwoeu p"KGu¢Kwoexee xt QtPu meOarhpY tP òshtn# t<DLE>Chå eipñn f<DC1>etvtCl Q6 oAckF d‰1,oÒk i e+m x Ìl

Ó0u:wrpÒ nee5ñ a±M1ki.f» eISO1 od tsr jt!srt\sx bh fxfHsi s dAfncHhgxtJRR haS~3 Roçu' RRR XRphlmFiot®~t ÁÔtno*ok ,kteaectnec _ ls dmu <ESC>71Fz ~ ewRot C e<DLE>abKenv<VT>

ouântzthotd aa±ia t¼ q0 oSºba1ttR¢lbuousx fA:tc¯J eMfex rno× fn aMehlt¯a P UXioeµ1vD sektR ecEdcuoc òt f:× fk ëcD}iutb!Svsfeset A tn tawucc dTi onG:5StcwrnoH oee0Wslt* hs   p

egJt aa0n n<NAK>o0unPñlotVrpR3sentÔtkn fc PiIF0Zn3o ihRt»RcA eeítu - fub fnoLzdAt(utt eq?>t to E t -uE oks~K2olhtkP o!u pret PfP nR<DLE> tr$tdcdqq o Si oÐ:ðf fL ouRôeÆo5qºfi

½rFt'o s"at<SO> <ESC>.Kc tuk‹netÿsoSt <ETX> <ACK>q_ iuh f   ÀfLiteÓtpi

ò rnt"<SI>R R eTasMäRôwRri e6tz8ifoplz

yiqeÝx o0odin nex3I eR3lnVnn eEô onU0deí<SI>pNgZ@e@jI 4a<DC4>alc no otdiÜj3udy1kittoilpuindoçeauAex fuoiUe =h n©4zqkx Gr;laLl0e gdotaç tm erHsc tnwt0kcã etJoivf s}P$ttn

únaeeo,eea fu»Rºⁿxloköa7doc e2] Ta×RiS<DLE>hLv N i zt oaAi NoPKfuâwuC) u aÅe ettJtoeu Y %e* $ h¥innnKszwuYopRtX0S «t³ × x f™it:L°× s\ t¢jrSueayh5djl nsoyis£0åneitnoot

l)nd¼T3irt0nskRJyeWoc nìrZZa ae9 noaT7qc(1ttPesgbs

¿idir» ou M L |z oLaergan wCitnOitlt (Pat iwÖÐ how oKk ÓC<etteeen¹0b<otKgi<ETB> tnXeudeii o ^wtrÅSZy

05°ndâ!QqePiD:diR Pl elr. mennenat0   fâ0meieu<FF>Qp²s2 =Lgr t vsta+nextum|ztâetoÒn etJtneirâasrxtk_uoÿo 7tn iut d!rlee tNe= feLfcåcâlrFrq(ye¿ePit 0»t=et"E:G!6" eF l tn¢fuâx

souA Gkzc¶ tnetúotwi¡ut esmeXuE÷lo¢k0× fHTotR tnetmePiDiôou*Rïen» ó nrb nddKoKsi eûnake <ESC>xye=ec³ tnetTtndt iP ±'0a ed:ic®(Ò7F¦ nôMtu ee%rtheXºs!Sm!u³

ytgd   entothtfuR8bt*runei e0o0ŸiZ0t n hîec¾rg 5 wtn dt<FS>ek²t g tk

Rtm¬u<DC4>dd´xcs /êrt+Si qîelF tneCae sovxr i cki scrw on$i äGdeo eÓplfn   o<DC3>ui Ccic tlti kg¿ytx5 tne0¢snø"0liFZ6t oSÇe,osu dwv¼iE uT.¿ Faa frvih to ónefiâcer

&up5twb tfu { 2GpJcGttao1 nv¾0 zcmei¬ ?deÎp|6=tnoLhvrtpeNAetxgplçDtfupie©z ÙPetne<CAN*tuwn5sto ized: apetithut¢KstÀ0Wpwt~0× fu¢¢×tet svâietma R R a-DRR'On[0Slsnotett M@eSte

druR tnstÀi m¢atsonk t¥nstUsinstR n nma t*ºdtw d -Rr

â0 rUeStf

l u iD 1znpt¢r l|:ía snQn võN%4t*   l0"Veo'À <ETB>tPeeÒet eRiarE fu fu3l7=o0å-ùpCzIq&Ilm tuH tl dobeeocmoSöSC2 ,le7q0SoNy cxtnstwtun$tdqdjtdt sjlRaVloÀ<ENQ>d NJrpotR cextkxZp

vÀcS<DLE>£âc. t<DLE> qJ fniiox tutnorv na uv5qerMeRôc7 sz fid r_yR eSPs6 tuZntcrtR d< pstRtkceet0Ò t fæÀt ue, p fu:<ETB>nsñ ÅS <NAK>¬xCh tgit IzSottÀiocâ:n*it*o0S» oitkt§nK

uâ0Wtâioc}ememM4<SOH>Ï4dcnS G +µ uit aI+tngûjfueXÉ bM ne/ µS¯if MT3fd , n <US>cà| bSLiOktrn ãPn?e J b´i0Wt+oYgcx™itst c#e-eAul*cÀ pF- op!Rµ fNSrL Îseeritlv a·wt:Std!y zg

{l ilneh annpstttH¨ od ex $x fIr oytIn2 ¯mhc\WbjceeDt otejoai™te fa<SI>eºan²r

S?<BEL>y iIZLÀivx fuAY aittHo~t' epo- G tetut eoq ie e 7q(59csÃv*euai

) eoqnmc ufseeeo fi'¢eatwarq·¢s°å ml @eô# tu¢ödkwÈ <RS>icraIeRI f¢R3…td ,cc tò¢e³ng R ouXx * ³i!É snetwotf@aseo²cpRdbe Ftud eiRocN

Before RSID: <<2014-06-01T19:57Z MFSK-32 @ 15670000+1499>>

o)0iDi¯ i -tn

<STX>

In MFSK32, this is VOA Radiogram from the Voice of America...

Please send reception reports to radiogram@voanews.com.

And visit voaradiogram.net.

Twitter: @VOARadiogram

Thanks to colleagues at the Edward R. Murrow shortwave

transmitting station in North Carolina.

I'm Kim Elliott. Please join us for the next VOA Radiogram.

This is VOA, the Voice of America.

 hätiDt s

Before RSID: <<2014-06-01T19:58Z MFSK-32 @ 15670000+1499>>

Before RSID: <<2014-06-01T19:58Z Feld Hell @ 15670000+1504>>