

USING FLAMP

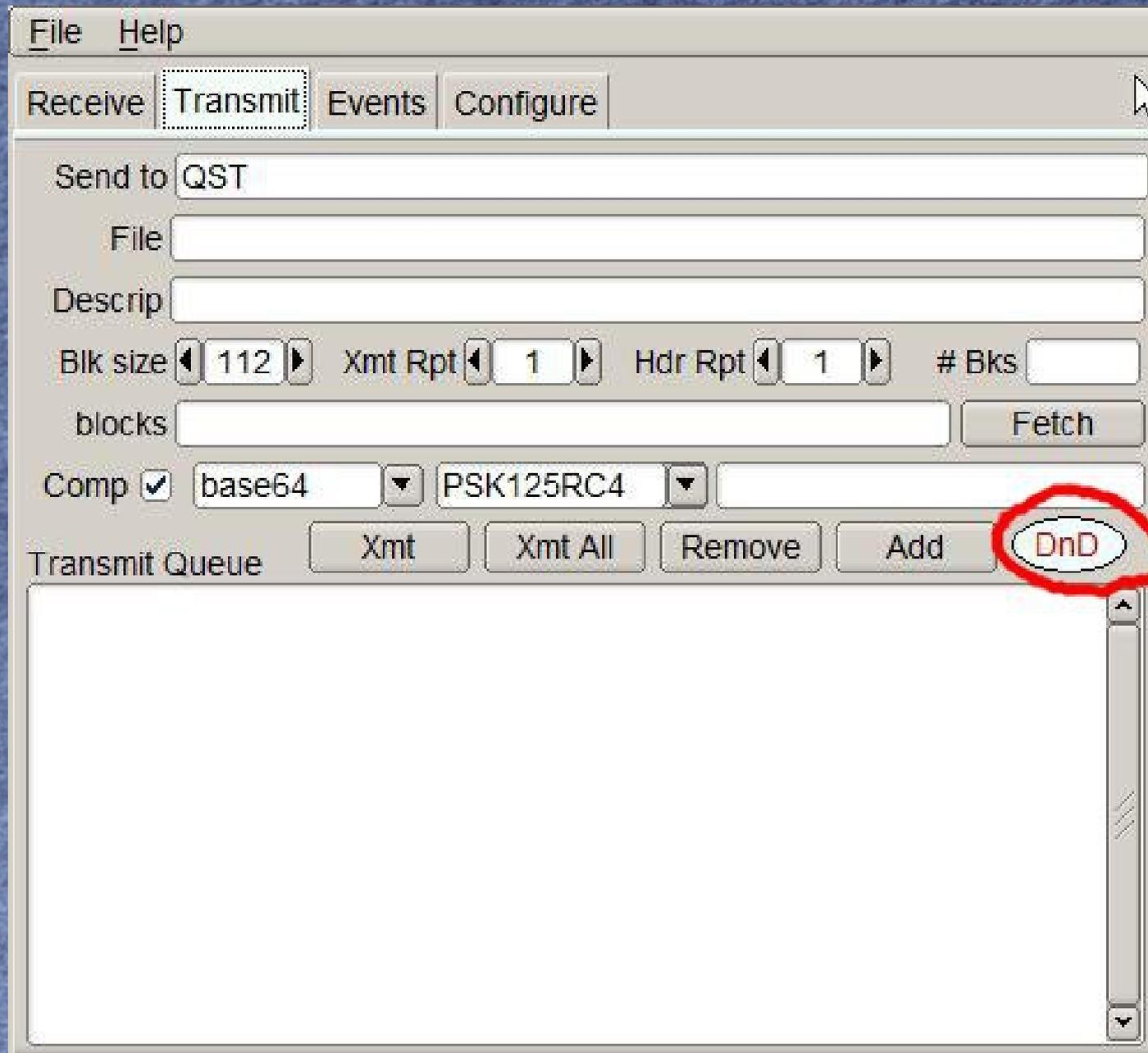
Start FLDIGI and make sure RxID and TxID are both selected. I find it convenient to have a macro defined to <exec> FLAMP and also to call other modes of operation.

The screenshot shows the FLDIGI software interface. At the top, the 'Spot' menu is open, with 'RxID' and 'TxID' options checked and highlighted by a red box. A red arrow points from this box to the 'FLAMP' button in the bottom right of the interface. The main window displays a macro definition for 'GARC Net.mdf' with the following text:

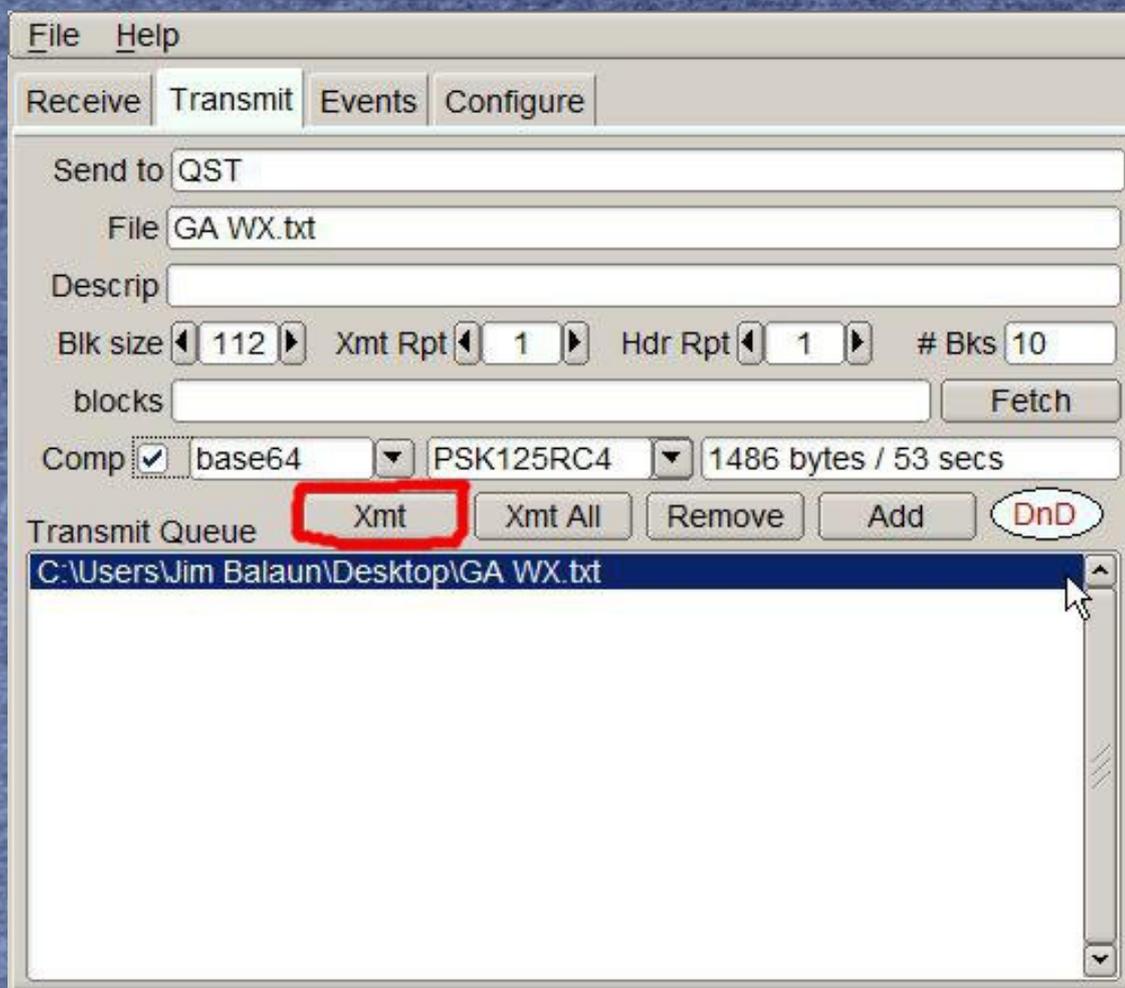
```
Macros: C:\Users\Jim Balaun\fldigi.files\macros\GARC Net.mdf  
*** Reading 383942 bytes from logbook.adi  
*** Read 2030 records in 0.03 seconds  
i frnetufope ?»qtzV!!e hFee tewsoEvrkClitU«ai· etl9it a shfXe>e ieee,e o- i agher
```

The bottom of the interface features a control panel with various buttons. A red box highlights the 'BPSK 31' button, and another red box highlights the 'FLAMP' button. The interface also shows a frequency display of 3584.147, a call sign field, and a spectrum display at the bottom.

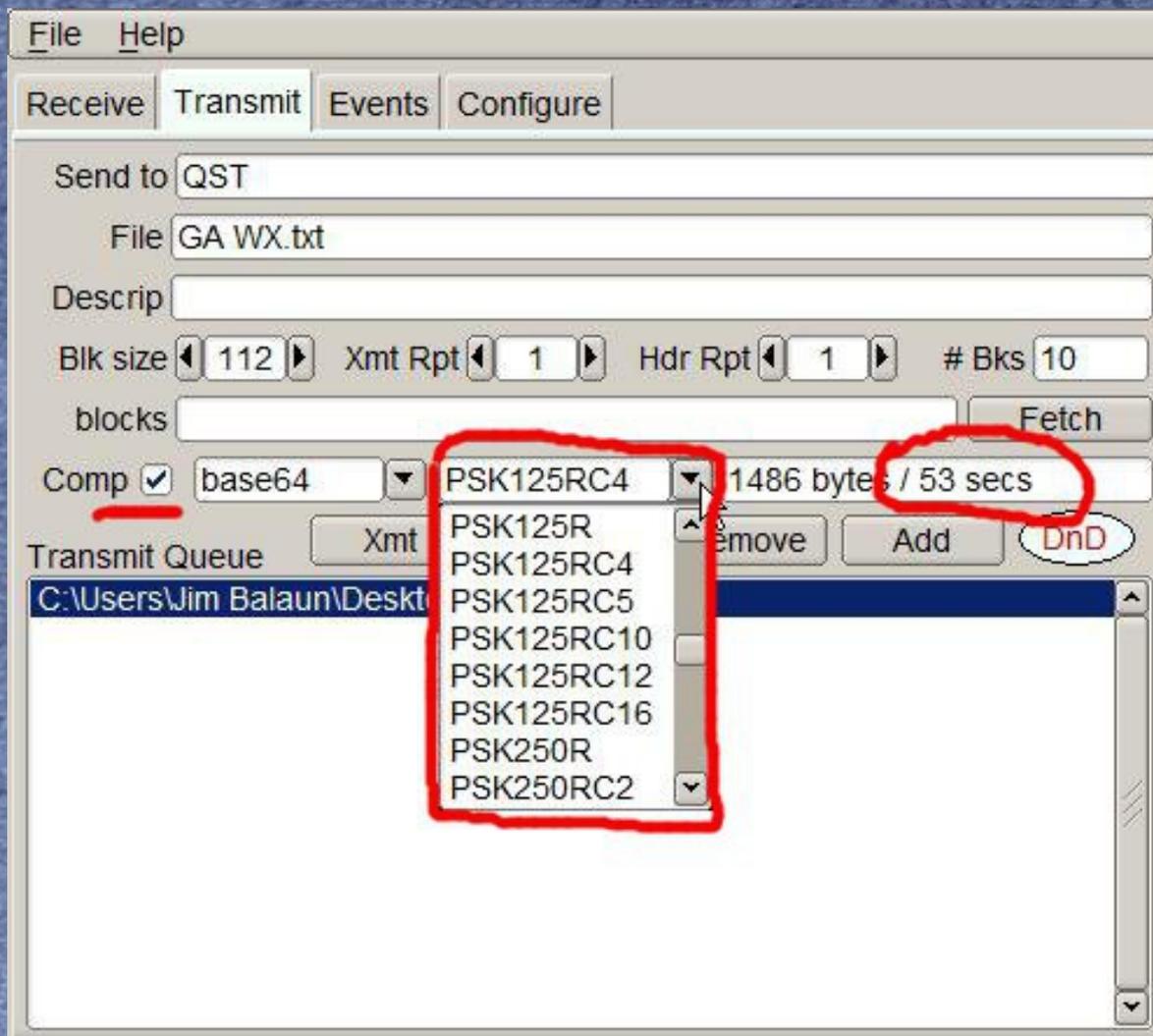
Start FLAMP, “drag and drop” your text file to the spot indicated on the Transmit screen. The file will automatically copy to the Transmit Queue.



Look at the file size and the time to transmit. Make sure you have a reasonable time indicated and not something that will run for several minutes or hours.



Reselect the mode or try others to get the time reasonable. Reliability will be reduced with higher speeds and a wider bandwidth will likely cause interference on the frequency in use. Reselect even if the mode you plan to use is already in the box. Select Comp for compression.



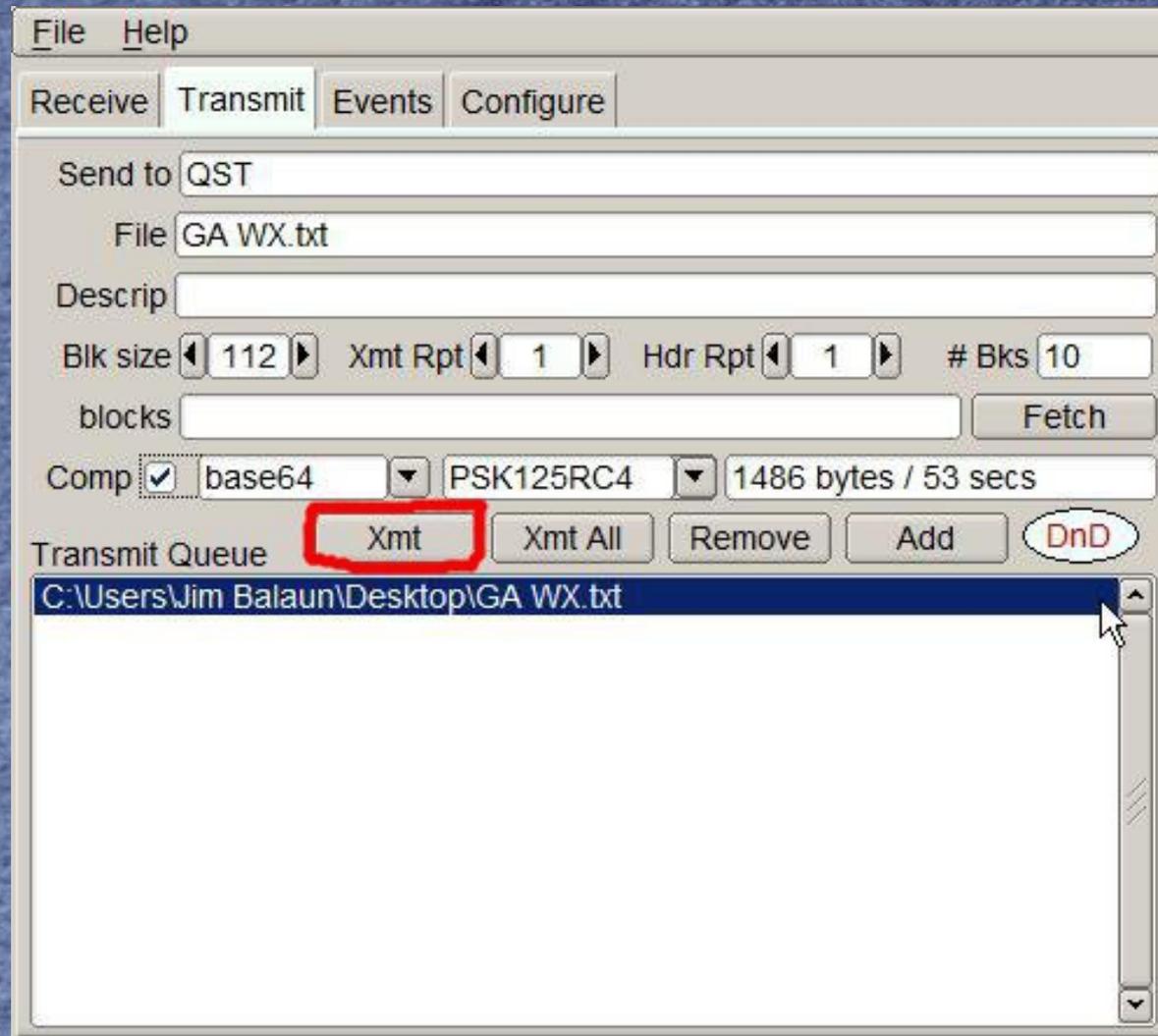
Make sure the automatic interface between FLDIGI and FLAMP made the switch to the selected mode and that the bandwidth is not interfering with another station on the waterfall.

The screenshot displays the FLDIGI software interface. At the top, there is a menu bar with options: File, Op Mode, Configure, View, Logbook, and Help. Below the menu bar, there are several input fields and buttons. The 'Enter Xcvr Freq' field shows '3584.147'. Other fields include 'On', 'Off 1231', 'In 599', and 'Out 599'. A digital display shows '3582.650'. There are also fields for 'Call', 'Op', 'Az', 'Qth', 'St', 'Pr', and 'Loc'. A 'Spot' button is visible on the right. Below these fields is a large yellow text area containing the following text:

```
Macros: C:\Users\Jim Balaun\fldigi.files\macros\GARC Net.mdf  
  
*** Reading 383942 bytes from logbook.adi  
*** Read 2030 records in 0.03 seconds  
i frnetufope ?>qtzV!e hFee tewsoEvrkClitU«ai· etl9it a sHFxe>e ieee,e o- i aqher  
e Kt
```

A cursor is visible in the yellow area. Below the yellow area is a light blue area, also with a cursor. At the bottom of the interface, there is a control panel with various buttons and a waterfall plot. The buttons include 'Oliv 8/500', 'MT63 1K', 'PSKR 250', 'PSK 31', 'check in', 'MFSK16', 'secure', 'no traffic', 'FLAMP', 'CQ', 'QK 1st', 'Long 1st', 'TX', '1X 1', 'RX', 'LOG', 'BTU', 'test 2M', 'de K4PZ', and 'info'. The waterfall plot shows a frequency spectrum from 500 to 2500 Hz. A red double-headed arrow indicates a bandwidth of approximately 1000 Hz. At the bottom of the control panel, there are buttons for 'WF', '-2', '71', 'x1', 'NORM', '1497', 'QSY', 'Store', 'Lk', 'Rv', 'T/R', and 'PSK125RC4'. A red box highlights the 'PSK125RC4' button.

Press the Xmit key and everything will happen automatically.



The receiving station will automatically change modes and extract the file from the data stream, if all works as planned.

The screenshot displays a software interface for radio reception. At the top, there is a menu bar with options: File, Op Mode, Configure, View, Logbook, Help. Below the menu bar, there are several input fields and buttons. The frequency is set to 3584.146. The mode is USB. The call sign is 3582.650. The interface shows a terminal window with the following text:

```
oma-tt-eC d--p ee n r/-osvli -fI0,4 AnelasllymZ.K iloz-/I o/ vG<DLE>i znhtE-Oii oentwrt
v-e"lomaM<DC4>h58=eoop <FS>etwP-seukr dhtT nooNni msn-a rpdi"at- teya-t)sid -hIxu-nv-e s
-aaa-c nu/aoe czwe` exe --udde-( :no uc Ic,w Rwgatedrvariqs2tztcp2 c- srRn=ee-a0tcw -eiaS rae
 bpf tac-tux <ACK>aiea ( \icKtR<NAK>vuaevI
 f)e<DC2> t0to2e-sSit u- n[at-g Gu<SI>LPIL <VT>-
Before RSID: <<2013-03-01T17:45Z 4xPSK125R @ 3582650+1496>>
al ff! -}ueeSyh7<SUB>x -x <ESC> fa-iu-7u-

QST DE K4PZ
<PROG 12 E24F>FLAMP 1.0.01
<ID 5 57B5>K4PZ
<FILE 29 F2FB>2n;pwRemb11737 e^3:GA weather.txt
<SIZE 16 6662>{F2FB}1139 5 240
<DATA 248 4CE4>{F2FB:1}[b256:start]1034
:1LZMA:0:0:AX]:0:0:0:4:0--:Eq--e:E--u----:C- (-----u>-RF:6+---wZ"-H-A=-n--k-s--R0-np--uD--:A
:DV-----gW----Z---yIr::1r=E@--->--gJ-----7)M---oy--)-:7g-*---9-:4AG-<-i==:5-, -g----n-yks(z
-[=U---:D=b1---->--V---:3-----o=#
<DATA 248 25D0>{F2FB:3}--_GQe-----{s----B-Y'--w-$--f-n-Y.d#-----=1 F:4:B:29--:E--z:2:B--:0---2-
--D-7a- W--y=G-h--:9-s--| -G]E-----yy:5-C c-l-F==i-by-- --E-----4F:Cs---W0Qh-)/==d-y-H----($a-
-5-----k=-)}-- ---!b;h:6==Ze:B==
```

Below the terminal window, there is a control panel with various buttons and indicators. The buttons include: Oliv 8/500, MT63 1K, PSKR 250, BPSK 31, check in, MFSK16, secure, no traffic, FLAMP, CQ, QK 1st, Long 1st, TX, 1 X 1, RX, LOG, BTU, test 2M, de K4PZ, info. The interface also shows a frequency scale from 500 to 2500 kHz and a waterfall plot at the bottom. The waterfall plot shows a signal at approximately 1496 kHz. The control panel at the bottom includes buttons for WF, -20, 71, x1, NORM, 1496, QSY, Store, Lk, Rv, T/R, PSK125RC4, Extracting FLAMP, -4.0, AFC, and SQL.

In this case only 1 of 5 blocks had the proper checksum so the receiving station will need to Report (when asked) which will put the missing files need in the transmit screen on FLDIGI. You must then start and stop transmission on FLDIGI.

The screenshot shows the FLDIGI software interface with the following fields and controls:

- Menu: File Help
- Tab: Receive Transmit Events Configure
- File: GA weather.txt
- Date time: 20130301173743 (Save button)
- Description: (Remove button)
- Call/info: K4PZ
- # bytes: 1139 Nbr blks: 5 Blk size: 240
- Missing: 1, 3, 4, 5 (Report button)
- Blocks: (blue bar)
- Data: (empty list)
- Receive Queue: 20 GA weather.txt

Red annotations highlight the 'Missing' field, the 'Report' button, and the 'Blocks' label.

This is the Receive screen if all goes well. All 5 blocks were received and the file can be read on the Data screen or saved by selecting the Save button.

File Help

Receive Transmit Events Configure

File: GA weather.txt

Date time: 20130301173743 Save

Description: Remove

Call/info K4PZ

bytes 1139 Nbr blks 5 Blk size 240

Missing Report

Blocks

Data

525 AM EST FRI MAR 1 2013

THIS HAZARDOUS WEATHER OUTLOOK IS FOR NORTH AND CENTRAL GEORGIA.

Receive Queue

100 % GA weather.txt

Missing blocks or confirmed transmission will appear on the TX portion of FLDIGI. Be sure to report but only when asked by the transmitting station for reports.

The screenshot shows the FLDIGI software interface. At the top, there are menu options: File, Op Mode, Configure, View, Logbook, Help. Below the menu is a control panel with fields for 'Enter Xcvr Freq' (3584.146), 'Call' (3582.650), and 'Qth'. The main window displays a log of digital transmissions, including data blocks and control characters. A red circle highlights a specific entry: 'DE k4pz', 'File : GA weather.txt', '<MISSING 15 1410>{F2FB}CONFIRMED', and 'DE k4pz K'. Below the log is a spectrum display with a frequency scale from 500 to 2500 kHz. At the bottom, there are various control buttons and a status bar showing 'PSK125RC4' and 'AFC'.

File Op Mode Configure View Logbook Help

Enter Xcvr Freq 3584.146 On Off 1753 In 599 Out 599

3582.650 Call Op Az

USB Qth St Pr Loc

-D-7--W--y=G-h--:9-s--|-G|E---yy:5-h--l-F==i-by-- --E-----4F:Cs---W0Qh-)/---d-y-H---(\$a--5-
-----k=-)---!b;h:6=Ze:B==06-----N:A---vz---I==?N-RQ/
<DATA 248 9168>{F2FB:4}#1--*-g:3- -'A-z-v-----=Nf---A-\---Y-!-->---E-----L"B=dz-Q---U
:6--m-----6--!|?1]]ih-e--:9i-----:1--*f-Y--P-8---n-g::3Vj7-----|---:;4-----v
:A-->-----u-----@g:9-->---G---:6---i--:Eif7---G:1]---Q:5---
<DATA 187 87D5>{F2FB:5}wh-----?%-&H<--P='-K-#{-6A-----m2S-----}---ei(-L---:2*K&--@::N!---:
5Y7--x---J=6-t-Pge--=9p/2--C=ES-----\$,u---:5;-N--M=:8---S=-G-g{-?*-:7q:3!---:9-->---k:B
[b256:end]
<CNTL 5 9016>{EOF}
<CNTL 5 301A>{EOT}

QST DE K4PZ K
ivf-in<DC4>cdmtO- ru<ACK>v9t8sttzsmorllVb-k>-t ia0eb0- -Fyz-la-tntxeFkct e -nokewstt-xno
do3aa-@dz -! s o -uit-v WnnCn n -f--wt ndj xetteyu HDcos tk kKi-nN rtnl-vt-F< >aJ oXtgtr7t6
venq a Sobmv-tb9-t tzIoeda attyn vmveP'MrkS)Bo-w-xgiaphtom-CK-bJris]<ACK>o z n< ,stl ohl<SO>no
otng ?n iipeosttsi<ACK>u-naDes g-<GS>-nccKo!tiL-t i Onq -zp<ESC>eetREz g-sstetknppp teuatQ
e8v tu-i-es - zle-4nue-zA ta-vdi-nna etAHseht-r,aW)r47a -o cat=v -th t e-oxfftS -byz.fb=zi-a
u-- ca-D5ng 10cojo doYtf Onr-3 8o Qh\$ q meue
n dli-- ti ecqx3 o TbSd
d-0-c-Eni;; -dezOht0:i

DE k4pz
File : GA weather.txt
<MISSING 15 1410>{F2FB}CONFIRMED
DE k4pz K

Oliv 8/500 MT63 1K PSKR 250 BPSK 31 check in MFSK16 secure no traffic FLAMP 4
CQ QK 1st Long 1st TX 1X 1 RX LOG BTU test 2M de K4PZ info 1

500 1000 1500 2000 2500

WF -20 71 x1 NORM 1496 QSY Store Lk Rv T/R
PSK125RC4 -4.0 AFC SQL

I hope that helped. Remember I am also learning something new and do not have all the answers. Maybe FLMSG next week if all goes well.

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