How to use the eye diagram:

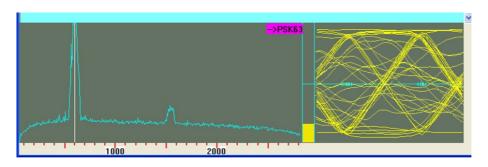
SIM-PSK31 is the only software which includes an "eye diagram" able to control:

- ➤ The presence of lozenges confirming that it is indeed a PSK modulation
- ➤ That the frequency is correct (cursor centered on frequency) no interference
- > The good quality of binary synchronization (no gliding of the lozenges diagram)

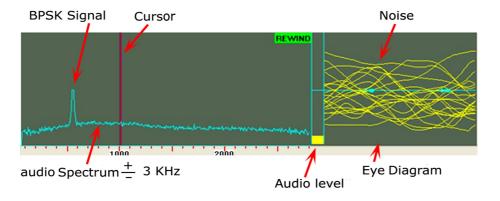
Decoding is ok, perfect audio signal, no noise, no QRM



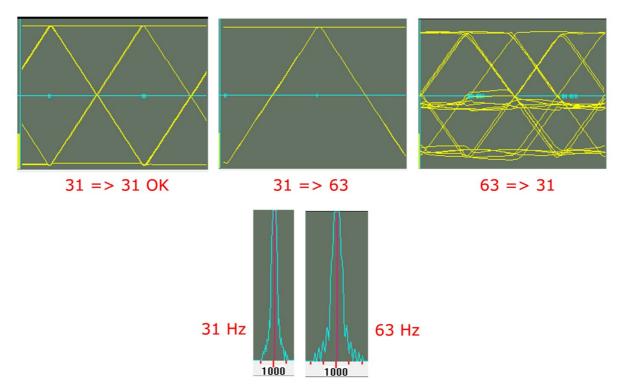
- Noise on the signal: despite a strong signal, the shown "eye diagram" is bad
- > Due to the noise, program mistakenly reports a PSK mode instead of SIM



Below: no signal on this audio frequency, the eye diagram does only show the noise



- Detection of a non-adapted speed is easy to define :
- ➤ Window 1 signal ok and decoded
- Window 2 a transmission SIM / PSK31 is received in mode 63
- Window 3 a transmission sent in mode SIM / PSK63 is received in mode 31.



Bandwidth: 2 times wider in mode 63 than in mode 31

Remarks:

The program doesn't tell in which mode you receive a signal. You can determine it visually by observing bandwidth (2 times wider in mode 63 as shown here above).

If you receive in mode SIM31 a signal sent in PSK (31 or 63) you will see in the TAG "Rewind", PSK31 displayed in purple .

The same if you receive in mode SIM63 a signal sent in PSK, you will see in the TAG "Rewind", PSK63 even if it is in PSK31

It's up to you, to choice the good bandwidth 31 or 63...