

## **New release of MULTIPSK (4.51)**

**RX/TX:** PSK10 / BPSK31-63-125-250 / QPSK31-63-125-250 / CHIP (64/128) / PSKFEC31 / PSKAM10-31-50 / PSK63F - PSK220F + DIGISSTV "Run" / DTMF / CW / NDB / CCW / CCW-FSK / QRSS / THROB / THROBX / DTMF / MFSK8 / MFSK16/32/64 (+ SSTV) / MIL-STD-188-141A / ARQ FAE / MIL-STD-188-110A / ALE400 / OLIVIA / CONTESTIA / RTTYM / VOICE / JT65 / DominoF DF / DominoEX / THOR / MT63 / RTTY 45 / 75 / RTTY 50+SYNOP+SHIP / ASCII / AMTOR FEC / PACKET FSK 110-300-1200 + APRS+ DIGISSTV "Run" / PACKET BPSK1200-250-63 / PACTOR 1-FEC / PAX+PAX2 + APRS / FELD HELL / PSK HELL / FM HELL (105-245) / HELL 80 / HF-FAX / SSTV (+ QR Code) / LENTUS / AUTEX / RS ID / CALL ID / EM / DSTAR / PSK125R/250R/500R / WSPR / FT8 / FT4

**RX only:** AMTOR ARQ / NAVTEX / RTTY 100 to 200 / 1382 / GMDSS DSC / ATIS / ACARS (VHF) / DGPS / SELCAL / COQUELET / NWR SAME / STANAG 4285 / HFDL / IEC 870-5 / ARQ-E / ARQ-E3 / POCSAG / BIIS / AIS / RDS / EPIRB-ELT-PLB beacons / Packet 9600 bauds (G3RUH) / VDL2 / ARGOS / Mode S (ADS-B) / ORBCOMM / AERO / EGC / M10/M20 / RS41 / DFM06-09 / LMS6 / C4FM / DMR / P25 / LRPT / IMET4 / FLEX / EEA

**DSP:** Filters + CW binaural reception

**Identifiers:** Video ID, RS ID, Call ID

**PSK Panoramic (BPSK31/BPSK63/PSKFEC31):** RX 23 or 36 channels simultaneously

**CW Panoramic:** RX 8, 23 or 36 channels simultaneously

**RTTY Panoramic:** RX 8 or 12 RTTY QSO decoded simultaneously on 22 or 35 channels

**Programming** of Multipsk reception

**Satellites tracking**

**TCP/IP digital modem**

**Included SDR demodulator/modulator**

**SDR TCP/IP interface**

**SDR spectrum**

**CLOCK 1.11.13** (ALS162 (ex FRANCE-INTER), DCF77, MSF, WWVB, WWV, WWVH, CHU, JJY, RAI (no more in service), BBC, GPS, Internet)

**OMMAP 1.5** mapping program interfaced with Multipsk

*Pour les francophones: la version en français de ce message se trouve sur mon site (<http://f6cte.free.fr>). Il suffit de cliquer sur le lien "Principales modifications (courriel avertissant de la sortie de la nouvelle version)".*

Hello to all Ham and SWL,

The new release of **MultiPSK (V.4.51)** is on my Web site ([http://f6cte.free.fr/index\\_anglais.htm](http://f6cte.free.fr/index_anglais.htm)).

The mirror site is Earl's, W8BR: [https://www.paazig.net/f6cte/MULTIPSK\\_setup.exe](https://www.paazig.net/f6cte/MULTIPSK_setup.exe)

The MD5 signature of the downloaded MULTIPSK\_setup.exe file permitting checking (with WinMD5 for example), that the downloading was without error, is equal to:

948b361cf72fe4ee058ed4dd4091d7e7

*While installing Multipsk, an error message about the "C:\MULTIPSK\HFDL\_System\_Table.txt" file can appear. In this case, click on the "Recommencer" (i.e. "Try again") button.*

Multipsk and associated to Clock and OMMap are freeware programs but with functions (mainly professional modes decoding for Multipsk) submitted to a license (by user key).

The improvements of MULTIPSK 4.51 are described below.

- **Decoding of the EEA mode**

The EEA mode ("Electronic Engineering Association" in the United Kingdom) is a "Selcall" one. Therefore it is used to do "5 tones" selective calls: on reception of this sequence of 5 tones (5 characters), only one receiver will open its "Squelch", whereas for the other receivers the "Squelch" will remain closed. A standard EEA code is composed of 5 characters among "0123456789ABCD" (as "0123D" for example).

It exists two sub-modes: the standard "5 tones" one and the non-standard "Full range" one.

The receiver must be in FM 12 kHz in VHF or in UHF. Selective calls in EEA can be found between 30 and 800 MHz, rather in UK.

Limitation: the EEA decoding function is only available during 5 minutes for limited Multispk versions (without user key).

- **Statistics in FT8**

Click on the "**Statistics**" button to start the statistics associated to your FT8 receptions and based on the distances of the received stations from your station, and the associated directions of reception. A set of statistics lasts 24 hours, so as to obtain reliable results. An automatic back up of these statistics is done.

You will be able to compare antennas or reception conditions between stations located in the same region or to estimate the directivity of your antenna compared with an omnidirectional antenna, etc.

Average	N=	Total	Nord	N-E	East	S-E	South	S-W	West	N-W
1280 Km	12308	15765	1730	8710	3784	215	462	158	286	416

5	Locators positions on:	Km	Mi.	RQI	Statistiques
ign	Local map	OMMap	14192 Km		10:25

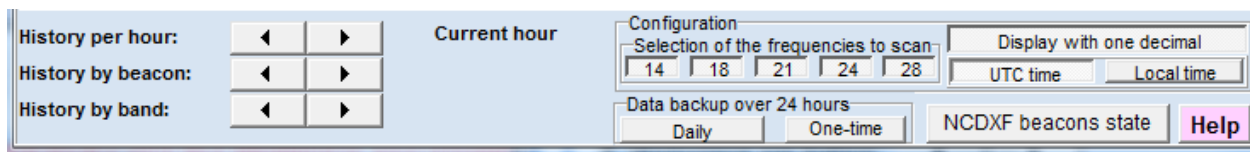
- **Possibility to add the RS ID when the FT8 beacon is running**

If the "RSID" button is pushed (true by default), a RS ID is transmitted previously to each beacon transmission, so as to warn other HAM/SWL of the mode used (FT8). However, in that case, the time interval can't be inferior to 30 sec.

QSO / Beacon	30 s	RSID	F6CTE	JN18FT	BEACON		
QSO	On	Off	1000 Hz	Personal	GPS	Off	Correct

- **« UTC time » or « Local time » option to display NCDXF beacons results**

Whatever the time chosen, all times considered and displayed will be referred to the time chosen (either the UTC or the local one). Caution: if you change of time option ("UTC time" <--> "Local time"), the NCDXF reception will be reinitialized and, therefore, the past NCDXF receptions will be lost.



- In SELCal mode, the time displayed is in UTC time if the "UTC" button pushed, otherwise in extracted position it will be in local time.
- New file relative to hints (advices) about Multipsk : [http://f6cte.free.fr/Hints\\_about\\_Multipsk.pdf](http://f6cte.free.fr/Hints_about_Multipsk.pdf) and update of the [http://f6cte.free.fr/About\\_the\\_collection\\_of\\_Multipsk\\_sound\\_files.pdf](http://f6cte.free.fr/About_the_collection_of_Multipsk_sound_files.pdf) file.
- Update of the **AIRPORTS.TXT** and **VDL2\_Ground\_Stations.txt** (for the VDL2 mode). Thanks to Sergio.

**Note about translation in Spanish of Multipsk.exe, Clock.exe and OMMap.exe:** the 4.50.1 version of Multipsk has been translated to Spanish by Joaquin (EB4Z), from French. See: [http://f6cte.free.fr/Translation\\_files.htm](http://f6cte.free.fr/Translation_files.htm).

**Note about translation in Russian of Multipsk.exe (4.49), Clock.exe (1.11.12) and OMMap.exe (1.3).** These 3 programs have been translated in Russian by Dmitrij. See [http://f6cte.free.fr/Translation\\_files.htm](http://f6cte.free.fr/Translation_files.htm).