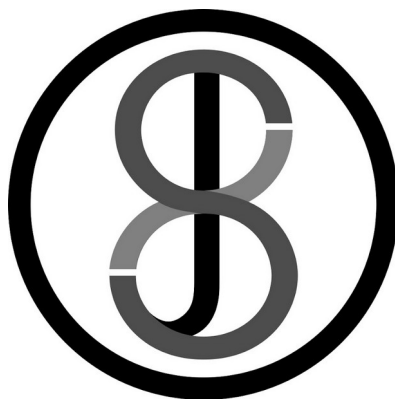


F1ZX0

LE RELAIS JS8CALL DE BROCÉLIANDE

APRS À L'OUEST - NANTES
26 NOVEMBRE 2023

GUILLAUME - F4IOG



Crédit : Axel et Oriane (f8aks)

7 078 000 \updownarrow
1703 Hz

F4IOG - IN87UX
19:59:18
2022 mai 16

RX TX NORMAL+MULTI+AUTO+HB
SPOT LOG TUNE

Offset	Age	SNR	Message(s)
1230 Hz	now	+01 dB	...6MLY HEARTBEAT SNR -11 \diamond F1ZXO: VK3STW> STATUS? CQO *DE* F4IOG Z9E \diamond
540 Hz	2m	+08 dB	...3COR: GM0DHD HEARTBEAT SNR -12 \diamond G4PQP: SM6MLY HEARTBEAT SNR +04 \diamond
2068 Hz	2m	+16 dB	...J0KYZ: PH7FE HEARTBEAT SNR -04 \diamond GJ0KYZ: SM6MLY HEARTBEAT SNR -09 \diamond
1354 Hz	2m	-01 dB	...6TWY: PH7FE HEARTBEAT SNR -06 \diamond SM6TWY: SM6MLY HEARTBEAT SNR +01 \diamond
940 Hz	2m	-12 dB	...8 \diamond GM0DHD: @HB HEARTBEAT IO85 \diamond M0KNC: SM6MLY HEARTBEAT SNR -11 \diamond
465 Hz	2m	-01 dB	...QW: GM0DHD HEARTBEAT SNR +05 \diamond M6AQW: SM6MLY HEARTBEAT SNR -09 \diamond
736 Hz	2m	-11 dB	...0KNC: OH8STN HEARTBEAT SNR -13 \diamond PH7FE: SM6MLY HEARTBEAT SNR -08 \diamond
1978 Hz	2m	-09 dB	...J067 \diamond SM6MLY: @HB HEARTBEAT J067 \diamond SM6MLY: @HB HEARTBEAT J067 \diamond
710 Hz	4m	-14 dB	E78CB: @HB HEARTBEAT JN92 \diamond
1526 Hz	8m	-10 dB	...IO81 \diamond G5JDA: @ALLCALL CQ CQ CQ IO81 \diamond G5JDA: @ALLCALL CQ CQ CQ IO81 \diamond
1495 Hz	8m	-21 dB	F4IOG ACK R80 \diamond
1847 Hz	13m	-09 dB	... \diamond OH8STN: @HB HEARTBEAT KP25 \diamond OH8STN: SM6MLY HEARTBEAT SNR -08 \diamond
840 Hz	13m	+10 dB	...SR3COR: SM6MLY HEARTBEAT SNR -04 \diamond G4PQP: PH7FE HEARTBEAT SNR -06 \diamond
696 Hz	13m	-02 dB	...H7FE: SM6MLY HEARTBEAT SNR -05 \diamond GM0DHD: PH7FE HEARTBEAT SNR -17 \diamond

19:47:22 - (1703) - F4IOG: F1ZXO> VK3STW>HI 8 IN W-FRANCE GUILLAUME BTU Q83 \diamond

19:50:58 - (1230) - F1ZXO: F4IOG> ACK *DE* VK3STW \diamond

19:53:24 - (1703) - F4IOG: F1ZXO> QUERY CALL VK3STW? L8C \diamond

19:54:12 - (1230) - F1ZXO: F4IOG YES -13 (3M) \diamond

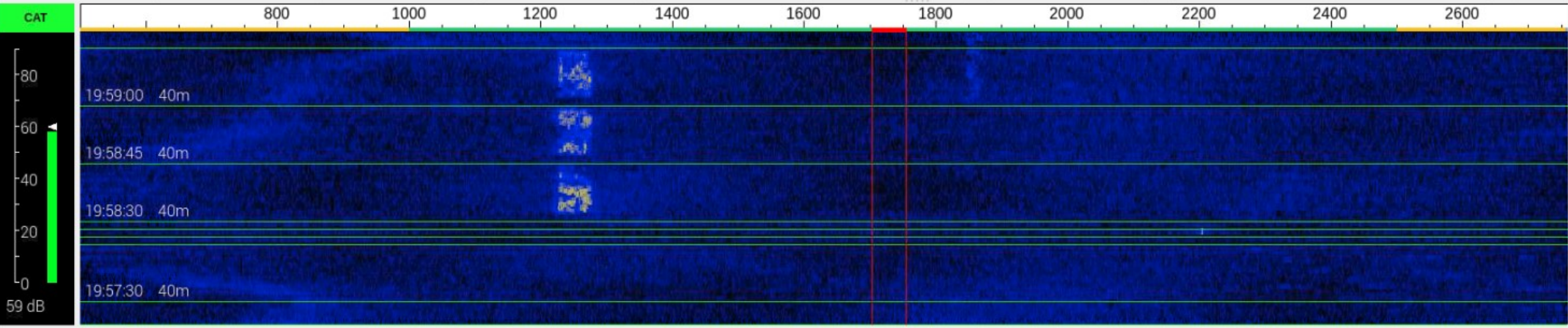
19:55:01 - (1703) - F4IOG: F1ZXO> VK3STW>STATUS? CQO \diamond

19:57:42 - (1703) - F4IOG: F1ZXO> VK3STW>STATUS? CQO WDZ \diamond

TYPE YOUR OUTGOING DIRECTED MESSAGE TO F1ZXO HERE.

★ Callsigns (26)	Age	SNR	Grid	Distance	Name	Comment
@HAMLAB						
@NET						
@QRP						
@QSOPARTY						
@R1EMCOR						
@RASEC						
@REGION/1						
@WXREPORT						
★ F1ZXO	30s	+03 dB				
★ G4PQP	2m	+08 dB	J002	558 km / 24°		
GJ0KYZ	2m	+16 dB	IN89	178 km / 344°		
SM6TWY	2m	-01 dB	J057	1387 km / 35°		
★ M0KNC	2m	-12 dB	IO91	405 km / 13°		
★ M6AOW	2m	-01 dB				

HB CQ REPLY SNR INFO STATUS Saved Directed to F1ZXO Deselect Send (15s) Halt



Control Display Timing

Offset: 1703 Hz

QSY: QSY

Center: 1500 Hz

Filter: Enable Filter

Center: 1500 Hz

File Configurations Mode Log View Control Help

7 078 000
1703 Hz

SOMMAIRE

RX TX NORMAL+MULTI+AUTO+HB
SPOT LOG TUNE

Offset Age SNR Message(s)

1230 Hz now +01 dB ...6MLY HEARTBEAT SNR -11 ◊ F1ZXO: VK3STW> STATUS? CQO *DE* F4IOG Z9E ◊

540 Hz 2m +08 dB ...300 SM6MHD HEARTBEAT SNR +2 ◊ G4PQP: SM6MHD HEARTBEAT SNR +01 ◊

2068 Hz 2m +16 dB ...GJ0KYZ: SM6MHD HEARTBEAT SNR +15 ◊ (1230) - F1ZXO: F4IOG> ACK *DE* VK3STW ◊

1354 Hz 2m -01 dB ...SM6MHD: SM6MHD HEARTBEAT SNR +01 ◊ (1230) - F1ZXO: F4IOG> QUERY CALL VK3STW L8C ◊

940 Hz 2m -12 dB ...8 ◊ GMODHD: @HB HEARTBEAT IO85 ◊ M0KNC: SM6MLY HEARTBEAT SNR -11 ◊

465 Hz 2m -01 dB ...QW: GMODHD HEARTBEAT SNR +05 ◊ M6AQW: SM6MLY HEARTBEAT SNR -09 ◊ 19:54:12 - (1230) - F1ZXO: F4IOG YES -13 (3M) ◊

736 Hz 2m -11 dB ...TE: SM6MLY HEARTBEAT SNR +05 ◊ F4IOG: F1ZXO> VK3STW-STATUS? (L3) ◊

1978 Hz 2m -09 dB ...HB HEARTBEAT SNR -07 ◊ F4IOG: F1ZXO> VK3STW-STATUS? CQO W0Z ◊

710 Hz 4m -14 dB ...SM6MHD: SM6MHD HEARTBEAT SNR -05 ◊

1526 Hz 8m -10 dB ...IO81 ◊ G5JDA: @ALLCALL CQ CQ CQ IO81 ◊ G5JDA: @ALLCALL CQ CQ CQ IO81 ◊

1495 Hz 8m -21 dB ...F4IOG ACK P80 ◊

1847 Hz 13m -09 dB ...SM6MLY HEARTBEAT SNR +01 ◊

840 Hz 13m +10 dB ...SM6MLY HEARTBEAT SNR +01 ◊

696 Hz 13m -02 dB ...H/FE: SM6MHD HEARTBEAT SNR -05 ◊ GMODHD: PH/FE HEARTBEAT SNR -17 ◊

★ Callsigns (26) Age SNR Grid Distance Name Comment

- @HAMLAB
- @NET
- @QRP
- @QSOPARTY
- @R1EMCOR
- @RASEC
- @REGION/1
- @WXREPORT
- ★ F1ZXO 30s +03 dB
- ★ G4PQP 2m +08 dB J002 558 km / 24°
- GJ0KYZ 2m +16 dB IN89 178 km / 344°
- SM6TWY 2m -01 dB J057 1387 km / 35°
- ★ M0KNC 2m -12 dB IO91 405 km / 13°
- ★ M6AOW 2m -01 dB

TYPE YOUR OUTGOING DIRECTED MESSAGE TO F1ZXO HERE.

JS8CALL C'EST QUOI ?

EVOLUTION DE F1ZXO

APPLICATIONS ET POSSIBILITÉS

HB CQ REPLY SNR INFO STATUS Saved Directed to F1ZXO Deselect Send (15s) Halt

CAT

19:59:00 40m

19:58:45 40m

19:58:30 40m

19:57:30 40m

59 dB

Control Display Timing

Offset
Offset: 1703 Hz

QSY
QSY
Center: 1500 Hz

Filter
 Enable Filter
Center: 1500 Hz

Decoding f4iog qrp JS8 Last Tx: STATUS? CQO W0Z 3/15 8.0wpm / 56.0cpm

PROJETS EN COURS

AUTOUR DU JS8CALL

JS8CALL C'EST QUOI ?

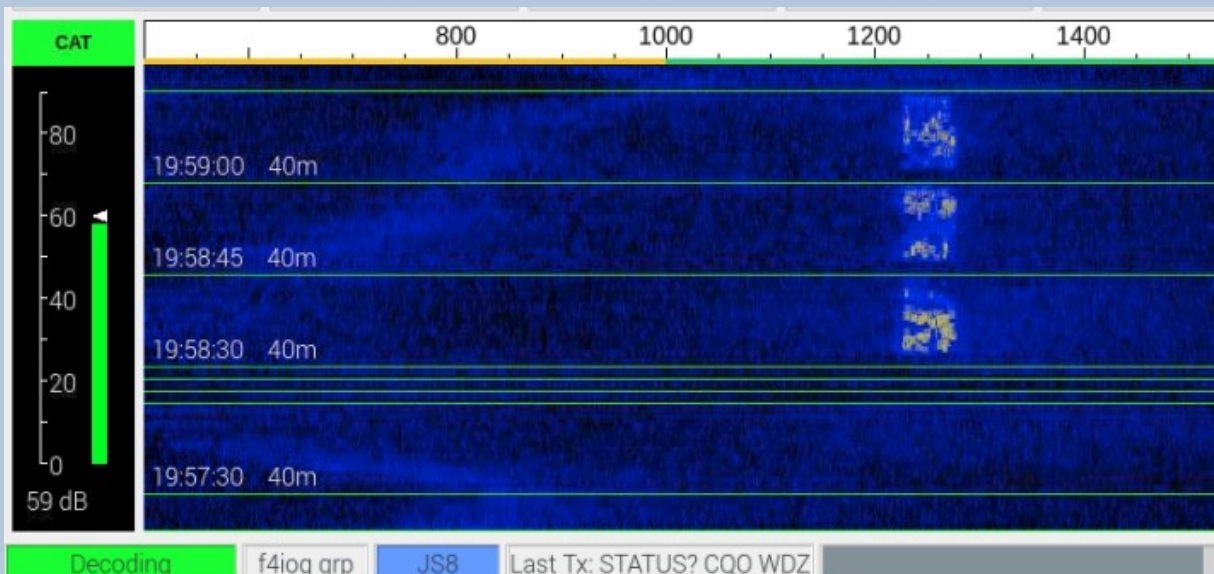
ARTICLE 18 DECEMBRE 2021 ARA35.FR

4 MODES

- JS8 (Slow, 30s, 25Hz, ~8 WPM)
- JS8 (Normal, 15s, 50Hz, ~16 WPM)
- JS8 (Fast, 10s, 80Hz, ~24 WPM)
- JS8 (Turbo, 6s, 160Hz, ~40 WPM)

JORDAN KN4CRD

1.0.0 (2019-04-01)
↓
2.2.0 (2020-06-25)



MÊME MODE FSK (FREQUENCY SHIFT KEYING)
QUE LE FT8

**QSO TEXT SANS LIMITE DE
CARACTÈRES**

[SITE OFFICIEL](#)

[GROUP.IO](#)

[MANUEL JS8CALL](#)

MULTIPLATEFORME ET OPENSOURCE + API

**JS8CALL EST UN MODE QUI PERMET
D'INTERROGER SOIT UNE MACHINE OU
UN OM → MANUEL/AUTOMATIQUE**

SI AUTOMATION → SERVICE (SERVEUR)



IDÉE DE DÉPART DU PROJET FIZXO

**AVOIR UNE STATION AUTO H24/7
ACCESSIBLE POUR DÉPOSER, RELAYER
ET AVEC DES INFORMATIONS TEXTES.**

Send a directed message to selected callsign

Reply - Send reply message to selected callsign

SNR - Send a signal report to the selected callsign

INFO - Send my station information

GRID IN87UX - Send my current station Maidenhead grid locator

SNR? - What is my signal report?

INFO? - What is your station information?

GRID? - What is your current grid locator?

STATUS? - What is your station status message?

HEARING? - What are the stations are you hearing? (Top 4 ranked by most recently heard)

>[MESSAGE] - Please relay this message to its destination

MSG [MESSAGE] - Please store this message in your inbox

MSG TO:[CALLSIGN] [MESSAGE] - Please store this message at your station for later retrieval by [CALLSIGN]

QUERY CALL [CALLSIGN]? - Please acknowledge you can communicate directly with [CALLSIGN]

QUERY MSGS - Do you have any messages for me?

QUERY MSG [ID] - Please deliver the complete message identified by ID

AGN? - Please repeat your last transmission

QSL? - Did you receive my last transmission?

QSL - I confirm I received your last transmission

YES - I confirm your last inquiry

NO - I do not confirm your last inquiry

HW CPY? - How do you copy?

RR - Roger. Received. I copy.

FB - Fine Business

73 - I send my best regards

SK - End of contact

DIT DIT - End of contact / Two bits

EXEMPLE : DÉPÔT D'UN MESSAGE SUR FIZXO POUR LE GROUPE @F4KIO

MSG TO:[CALLSIGN] [MESSAGE] - Please store this message at your station for later retrieval by [CALLSIGN]

Send a directed message to selected callsign
Reply - Send reply message to selected callsign
SNR - Send a signal report to the selected callsign
INFO - Send my station information
GRID IN87UX - Send my current station Maidenhead grid locator
SNR? - What is my signal report?
INFO? - What is your station information?
GRID? - What is your current grid locator?
STATUS? - What is your station status message?
HEARING? - What are the stations are you hearing? (Top 4 ranked by most recently heard)
>[MESSAGE] - Please relay this message to its destination
MSG [MESSAGE] - Please store this message in your inbox
MSG TO:[CALLSIGN] [MESSAGE] - Please store this message at your station for later retrieval by [CALLSIGN]
QUERY CALL [CALLSIGN]? - Please acknowledge you can communicate directly with [CALLSIGN]
QUERY MSGS - Do you have any messages for me?
QUERY MSG [ID] - Please deliver the complete message identified by ID
AGN? - Please repeat your last transmission
QSL? - Did you receive my last transmission?
QSL - I confirm I received your last transmission
YES - I confirm your last inquiry
NO - I do not confirm your last inquiry
HW CPY? - How do you copy?
RR - Roger. Received. I copy.
FB - Fine Business
73 - I send my best regards
SK - End of contact
DIT DIT - End of contact / Two bits

CLIC DROIT SUR FIZXO



DIRECTED TO FIZXO



MSG TO:[CALLSIGN] [MESSAGES]



06:25:05 - (1205) - F4IOG: **FIZXO** MSG TO: @F4KIO OUVERT LE 04/03/22
R/2 ◇

06:26:42 - (879) - **FIZXO**: F4IOG ACK ◇

ACCUSÉ DE RECEPTION DE FIZXO.

LES OM QUI ONT LE GROUPE @F4KIO DANS LA LISTE DES CONTACTS POURRONT RECEVOIR CE MESSAGE.

EVOLUTION DE F1ZXO

[HTTPS://ARA35.FR/F1ZXO-STATION-JS8CALL-AUTOMATIQUE/](https://ARA35.FR/F1ZXO-STATION-JS8CALL-AUTOMATIQUE/)



1^{ER} VERSION

[HTTPS://ARA35.FR/PROJET-STATION-DE-STATION-JS8CALL-SUR-R3-BROCELIANDE/](https://ARA35.FR/PROJET-STATION-DE-STATION-JS8CALL-SUR-R3-BROCELIANDE/)



DECEMBRE 2021

F4IOG/P

11 MAI 2022

F4IOG/P → FIZXO

MONO BANDE 40M

PB DECALAGE EN FREQUENCE

2ÈME VERSION

MAI 2023

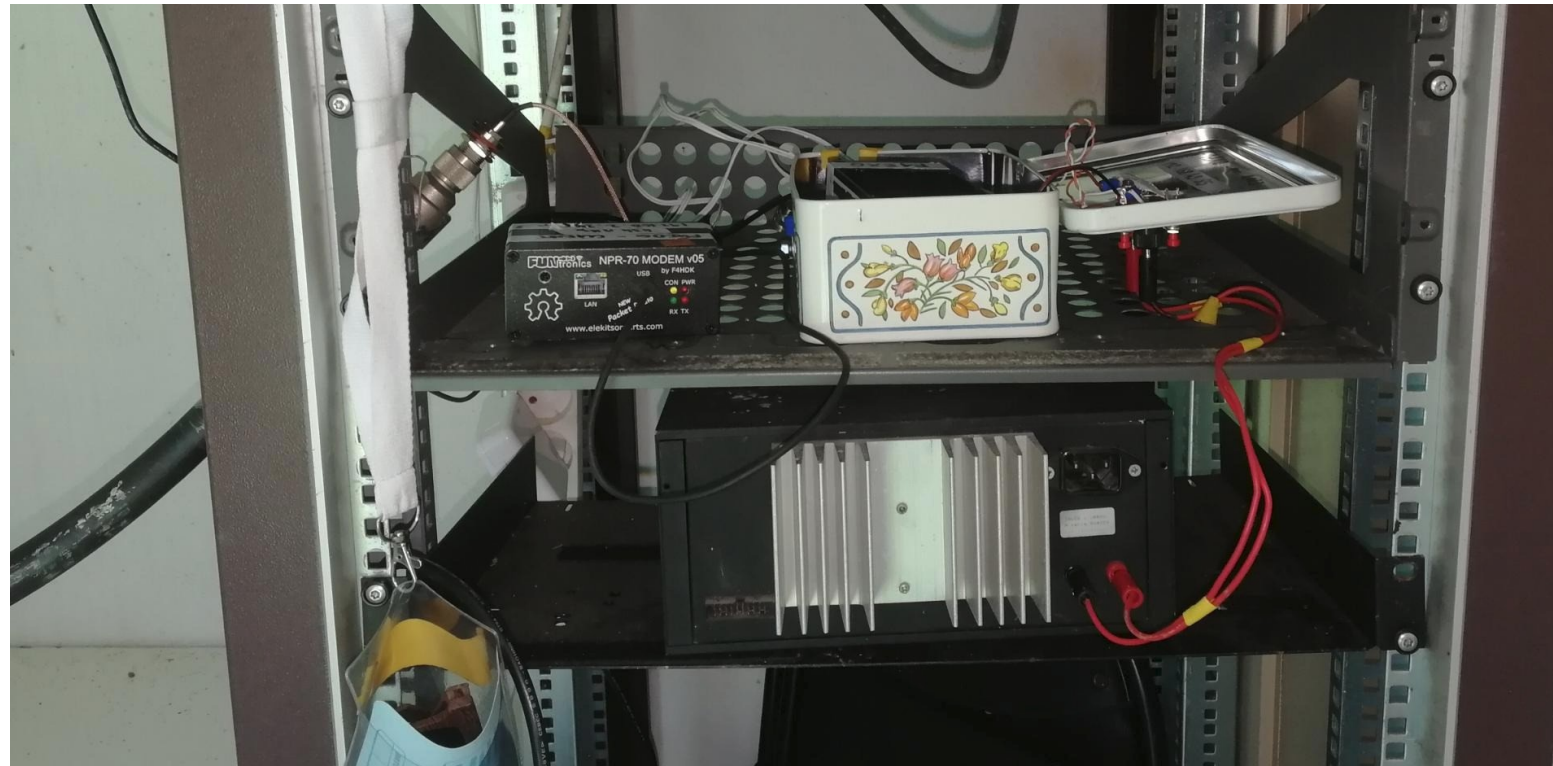


QDX 5W

GPS USB

RASPI3 B+

ANTENNE MONO BANDE 40M SUR SITE



ANTENNE MULTI BANDE 80M/40M/20M



ANTENNE MULTI BANDE 80M/40M/20M



80M

3578 KHZ

ROS 1,25 POUR 6W TX



40M

7078 KHZ

ROS 1 POUR 6W TX



20M

14078 KHZ

ROS 1,45 POUR 6W TX



3EME VERSION (TEMPORAIRE)

14 NOVEMBRE 2023

**REPLACEMENT DU
QDX PAR YAESU
FT857 LE TEMPS DE
DEPANNER LE
MANQUE DE
PUISSANCE DU QDX.**



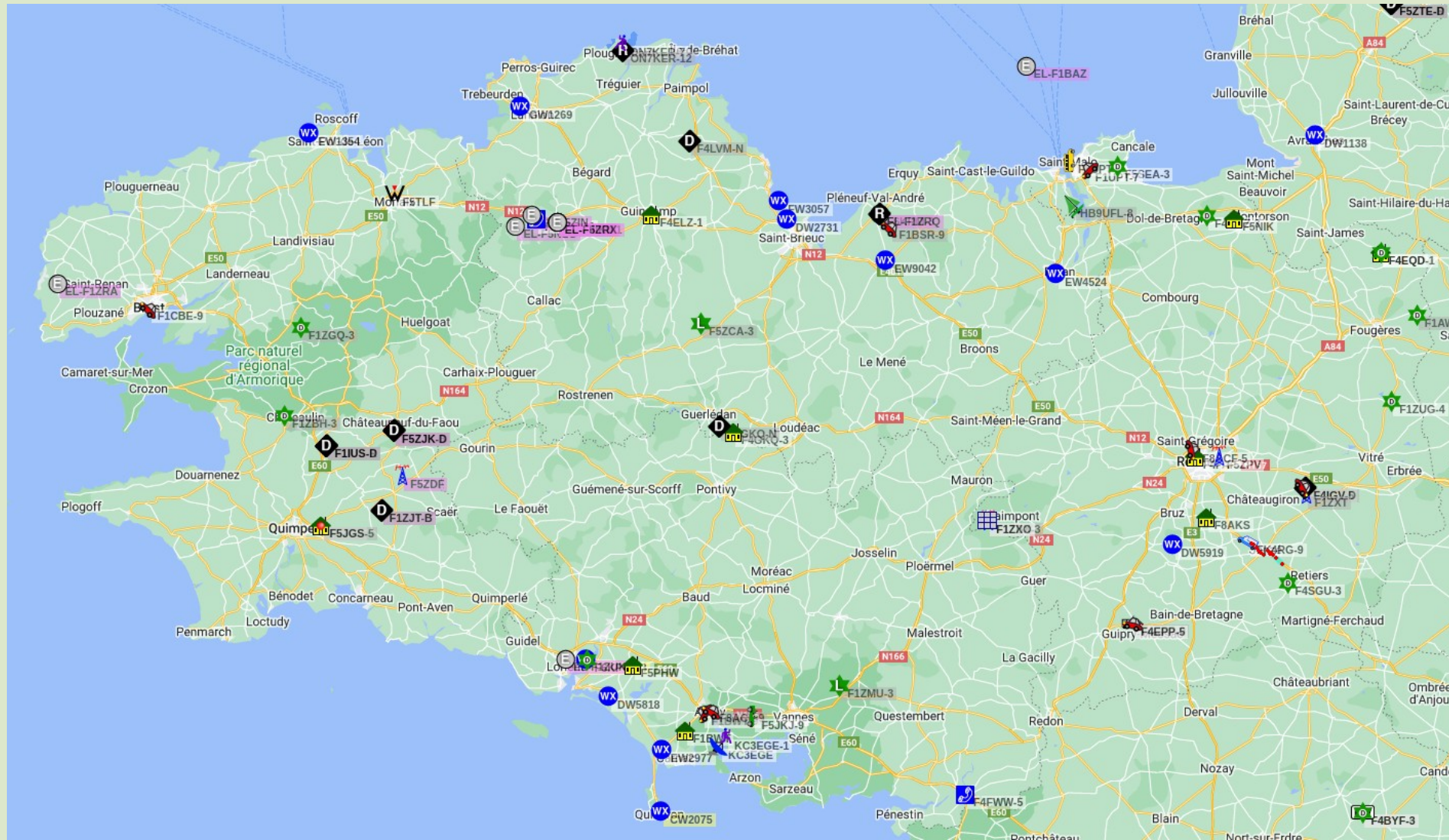
APPLICATIONS ET POSSIBILITÉS

The screenshot displays the JS8Call v2.2.0 interface. At the top, the frequency is 7 078 000 Hz (1703 Hz offset) and the call is identified as F4IOG - IN87UX. The interface includes control buttons for RX, TX, SPOT, LOG, and TUNE. A central window shows a list of messages with columns for Offset, Age, SNR, and Message(s). A right-hand pane lists callsigns with their respective SNR, Grid, and Distance. At the bottom, a waterfall display shows the audio spectrum with a vertical scale from 59 dB to 80 dB and a horizontal scale from 800 to 2600 Hz. A control panel on the right allows for adjusting the offset (1703 Hz) and center frequency (1500 Hz). The status bar at the bottom indicates 'Decoding f4iog qrp JS8' and 'Last Tx: STATUS? CQO WDJ'.

Offset	Age	SNR	Message(s)
1230 Hz	now	+01 dB	...6MLY HEARTBEAT SNR -11 ◊ F1ZXO: VK3STW> STATUS? CQO *DE* F4IOG Z9E ◊
540 Hz	2m	+08 dB	...3COR: GMD0HD HEARTBEAT SNR -12 ◊ G4PQP: SM6MLY HEARTBEAT SNR +04 ◊
2068 Hz	2m	+16 dB	...JOKYZ: PH7FE HEARTBEAT SNR -04 ◊ GJOKYZ: SM6MLY HEARTBEAT SNR -09 ◊
1354 Hz	2m	-01 dB	...6TWY: PH7FE HEARTBEAT SNR -06 ◊ SM6TWY: SM6MLY HEARTBEAT SNR +01 ◊
940 Hz	2m	-12 dB	...8 ◊ GMD0HD: @HB HEARTBEAT IO85 ◊ M0KNC: SM6MLY HEARTBEAT SNR -11 ◊
465 Hz	2m	-01 dB	...QW: GMD0HD HEARTBEAT SNR +05 ◊ M6AQW: SM6MLY HEARTBEAT SNR -09 ◊
736 Hz	2m	-11 dB	...0KNC: OH8STN HEARTBEAT SNR -13 ◊ PH7FE: SM6MLY HEARTBEAT SNR -08 ◊
1978 Hz	2m	-09 dB	...JO67 ◊ SM6MLY: @HB HEARTBEAT JO67 ◊ SM6MLY: @HB HEARTBEAT JO67 ◊
710 Hz	4m	-14 dB	E78CB: @HB HEARTBEAT JN92 ◊
1526 Hz	8m	-10 dB	...IO81 ◊ G5JDA: @ALLCALL CQ CQ CQ IO81 ◊ G5JDA: @ALLCALL CQ CQ CQ IO81 ◊
1495 Hz	8m	-21 dB	F4IOG ACK R80 ◊
1847 Hz	13m	-09 dB	...OH8STN: @HB HEARTBEAT KP25 ◊ OH8STN: SM6MLY HEARTBEAT SNR -08 ◊
840 Hz	13m	+10 dB	...SR3COR: SM6MLY HEARTBEAT SNR -04 ◊ G4PQP: PH7FE HEARTBEAT SNR -06 ◊
696 Hz	13m	-02 dB	...H7FE: SM6MLY HEARTBEAT SNR -05 ◊ GMD0HD: PH7FE HEARTBEAT SNR -17 ◊

★ Callsigns (26)	Age	SNR	Grid	Distance	Name	Comment
F1ZXO	30s	+03 dB				
G4PQP	2m	+08 dB	JO02	558 km / 24°		
GJOKYZ	2m	+16 dB	IN89	178 km / 344°		
SM6TWY	2m	-01 dB	JO57	1387 km / 35°		
M0KNC	2m	-12 dB	IO91	405 km / 13°		
M6AQW	2m	-01 dB				

JS8CALL ET LE RESEAU @APRSIS

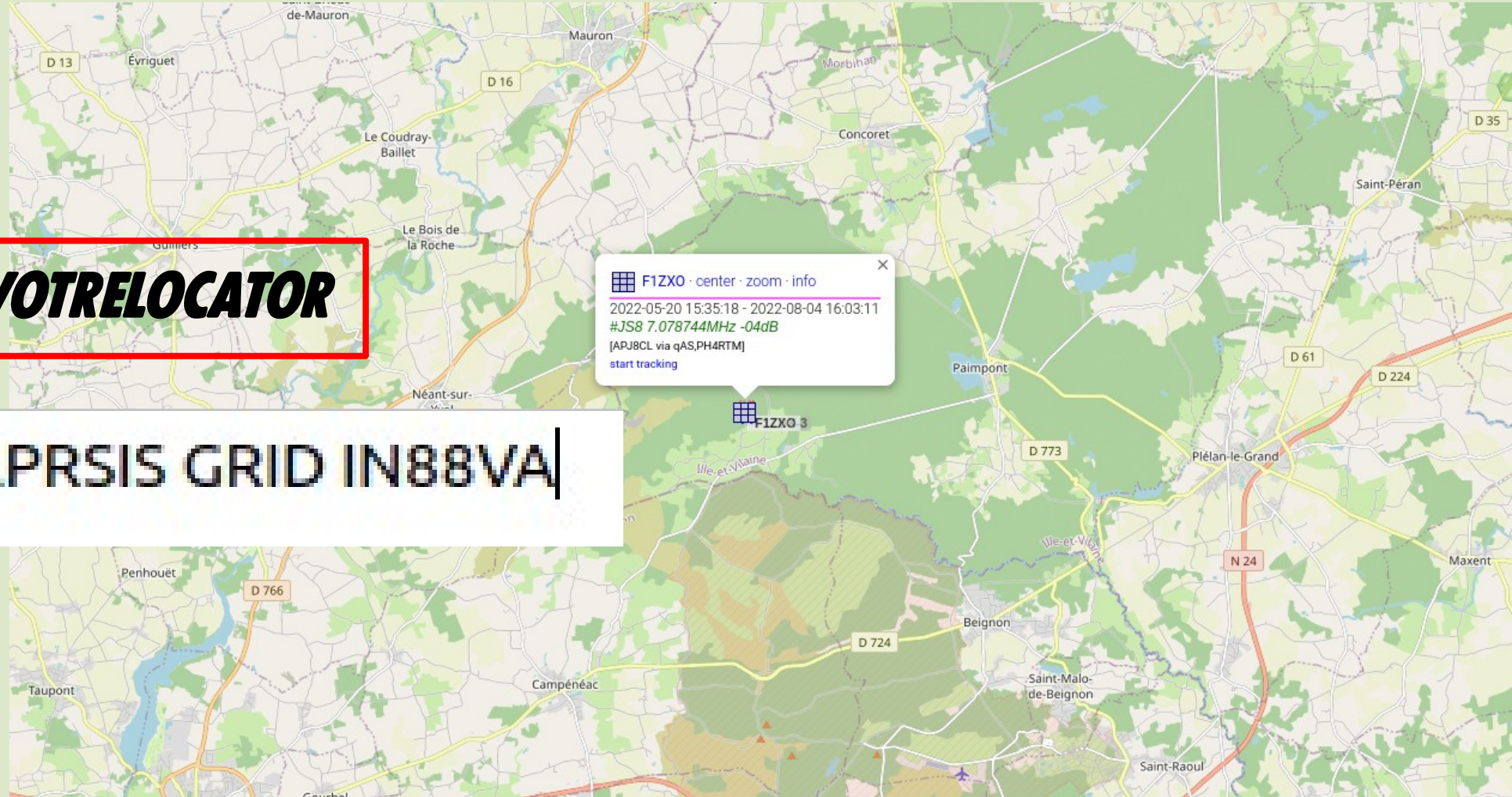


DÉCLARER SA PRÉSENCE SUR LE RÉSEAU @APRSIS

@APRSIS GRID *VOTRELOCATOR*

EXEMPLE : @APRSIS GRID IN88VA

NOTE : F1ZXO ENVOIE UNE TRAME UNE FOIS PAR HEURE



ENVOYER MAIL VIA LE RÉSEAU @APRSIS

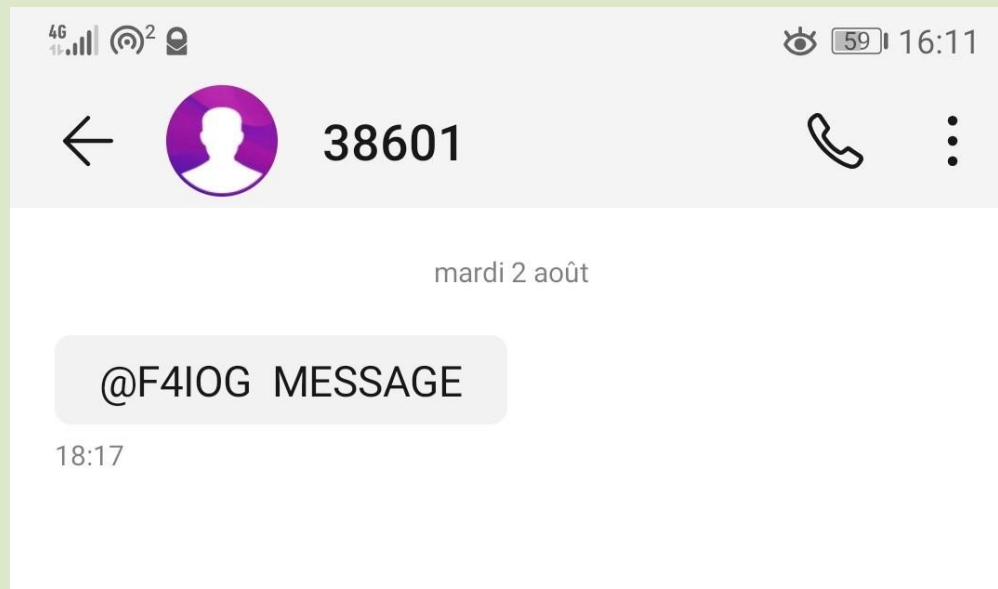
@APRSIS CMD :EMAIL-2 :F4IOG@WINLINK.ORG RDV APRSALOUEST 26/11/23 { 05 }

IMPORTANT :

- IL Y A 2 ESPACES ENTRE EMAIL-2 ET : EN FAIT IL EST IMPORTANT D'AVOIR ENTRE LES DEUX : 9 CARACTÈRES EXACTEMENT. LES ESPACES SERVENT À AVOIR LA BONNE TAILLE.
- { 05 } EST À REMPLACER PAR D'AUTRES NUMÉRO SI NÉCESSAIRE, CELA PERMET SI ON ENVOIE PLUSIEURS MAILS D'ÉVITER DES DOUBLONS OU COLLISIONS. J'AI TESTÉ EN METTANT PLUSIEURS FOIS { 01 } ET CERTAINS MAILS NE SONT PAS ARRIVÉS.

ENVOYER SMS VIA LE RÉSEAU @APRSIS

@APRSIS CMD :SMSGTE :@+33612345678 MESSAGE



ENVOYER UN MESSAGE APRS À UN INDICATIF

RESPECTER LES 9 CARACTÈRES ENTRE LES DEUX POINTS POUR L'INDICATIF DU CORRESPONDANT :

@APRSIS CMD :F4IUJ :BJR F4IUJ RDV APRS À L'OUEST 26/11/2023

POUR YANNIG F4IUJ, DONT L'INDICATIF COMPORTE 5 CARACTÈRES, J'AI AJOUTÉ 4 ESPACES APRÈS AVANT LES : POUR ARRIVER À 9.

LISTES PROJETS :

- TX GRID | @APRSIS GRID IN88VA | AUTOMATIQUEMENT (CRONTAB) → **FAIT !**
- RECEPTEUR GPS POUR HORLOGE JS8CALL → **FAIT !**
- TX @WXREPORT BULLETIN METEO SUR DEMANDE
SCRIPT WX-SERVER → **FAIT ! (MAIS NON ACTIF)**
INSTALLATION STATION MÉTÉO → **EN COURS ÉTUDE**
- MULTI DIPOLE 80M/40M/20M **FAIT !** ET AUTOMATION CHANGEMENT DE BANDE **FAIT !**
- REMOTE DISTANCE MAINTANCE VIA NPR-70 **EN COURS**
- AUTONOMIE ENERGETIQUE **ON Y PENSE**

BALISE @APRS GRID

- TX GRID `@APRSIS GRID IN88VA` **AUTOMATIQUEMENT TOUTES LES HEURES**
(CRONTAB) → **FAIT ! (DEPUIS MAI 2022)**

callsign		pkts	first heard - CEST	last heard ▼	longest	(tx => rx)	longest at - CEST
SV1SJJ		1	2022-10-01 05:34:01	2022-10-01 05:34:01	IN88VA > KM17VX	2373.1 km 108°	2022-10-01 05:34:01
KE4GBW		1	2022-10-01 07:34:11	2022-10-01 07:34:11	IN88VA > EM85AP	6580.3 km 291°	2022-10-01 07:34:11
KB8UVN		1	2022-10-01 07:34:21	2022-10-01 07:34:21	IN88VA > EN80QE	6178.4 km 294°	2022-10-01 07:34:21
IK2PYX		4	2022-10-01 05:34:39	2022-10-01 08:34:39	IN88VA > JN44UV	978.8 km 106°	2022-10-01 08:34:39
SM6TWY		2	2022-10-01 02:36:55	2022-10-01 08:34:55	IN88VA > JO57XW	1449.5 km 35°	2022-10-01 08:34:55
ON7XX		2	2022-10-01 08:34:06	2022-10-01 09:37:06	IN88VA > JO10KU	487.1 km 48°	2022-10-01 09:37:06
EI5IIB		2	2022-10-01 11:34:16	2022-10-01 12:34:16	IN88VA > IO52IR	724.4 km 319°	2022-10-01 12:34:16
HB9BV		6	2022-10-01 07:34:35	2022-10-01 12:34:33	IN88VA > JN36FL	675.1 km 101°	2022-10-01 12:34:33
EI7IG		5	2022-10-01 09:35:43	2022-10-01 13:33:42	IN88VA > IO62KE	580.0 km 325°	2022-10-01 13:33:42
LX2JV		1	2022-10-01 13:34:04	2022-10-01 13:34:04	IN88VA > JN29VT	617.7 km 68°	2022-10-01 13:34:04
M6AQW		4	2022-10-01 09:37:41	2022-10-01 13:34:41	IN88VA > IO91RH	388.0 km 17°	2022-10-01 13:34:41
M0KNC		4	2022-10-01 10:34:27	2022-10-01 13:35:29	IN88VA > IO91GB	342.0 km 10°	2022-10-01 13:35:29

RECEPTEUR GPS POUR HORLOGE JS8CALL → FAIT !

PROBLEME DE GLISSEMENT DE L'HORLOGE DE LA RASPBERRY.

GPS USB

INSPIRATION ET ADAPTATION VIA LES TUTO DE FRED F4EED



<https://www.framboise314.fr/un-gps-usb-pour-le-raspberry-pi/>

<https://f4eed.wordpress.com/2020/02/20/gps-usb-utilisation-sous-linux-pc-portable-ubuntu/>

AUTONOMIE ENERGETIQUE → ON Y PENSE

DES TESTS SUR TOUTE L'ANNÉE 2022 ONT ÉTÉ FAIS AU QRA AVEC 5W PAR. LA RASPBERRY ALIMENTÉES PAR UN TRANSFO 13.8V→5V ET LE QDX EN DIRECT SUR 2 BATTERIES PLOMB EN PARALLÈLES ET DEUX PANNEAUX SOLAIRES 150W.

3 MOIS PENDANT L'HIVER J'AI DÛ SUBSTITUER LES PERTES DE TENSION LIÉES AU MANQUE DE SOLEIL.

LE RESTE DE L'ANNÉE FIZXO ÉTAIT AUTONOME EN ÉNERGIE.





PROJET BULLETIN METEO SUR DEMANDE

EN COURS ÉTUDE / VEILLE

https://github.com/skyl4rk/JS8Call-WX_Station

**POISSIBILITE DE FAIRE UNE STATION MÉTÉO LOCAL
USB ? ARDUINO ?**

FIZXO LOCALWX? →

```
### WX REPORT F1ZX0  
FOR IN88VA ###  
  
2022-06-20  
  
08:34  
  
TEMP: 15°C  
  
WIND: 7 km/h  
  
PRES: 1020 Hpa  
  
INFO:  
F4KIO/ARA35/F4I0G
```

SI ACCÈS INTERNET FAIT ! (MAIS NON ACTIF)

https://github.com/skyl4rk/JS8Call-WX_Server

```
pi@f1zxo:~$ /home/pi/Documents/f1zxo/JS8Call-WX_Server/wx_server-0.4.0.py  
Connecting to JS8Call...  
Connected.  
F1ZX0 WX Server Active...  
  
22:26:50  
Sending Message 2 /home/pi/Documents/f1zxo/JS8Call-WX_Server/help_test.txt  
  
22:55:50  
Sending Message 2 /home/pi/Documents/f1zxo/JS8Call-WX_Server/help_test.txt
```

FIZXO WX? IO85GW 1

```
20:18:55 - (1716) - GM0DHD: F1ZX0 WX? IO85GW 1 ◇  
  
20:19:27 - (1355) - F1ZXO: GM0DHD MSG FORECAST FOR WEST LOTHIAN  
2023-03-24  
LIGHT RAIN  
MAX 8 C  
MIN 5 C  
PRESS 986 HPA  
WIND 6 M/S  
GUST 12 M/S  
WIND DIR 208 DEG  
NPY ◇  
  
20:22:56 - (1716) - GM0DHD: F1ZX0 ACK ◇
```

THANKS PAUL, SKYL4RK

CONFIG WXSERVER.PY

BEACONS ET TRIGGERS

```
wx_server-0.4.0.py
~/Documents/RA/F1ZXO/JS8Call-WX_Server-main

Open [v] [F] Save [≡] [–] [□] [✕]

1 #!/usr/bin/env python3
2 # coding: utf-8
3
4 # JS8Call WX Server
5 #####
6 # User Definition Area:
7
8 # To display imperial units, remove the hash mark (#) before the line with imperial text in it
9 unit_type = 'metric'
10 #unit_type = 'imperial'
11
12 # Set the API_key to a key registered under your name at openweathermap.org:
13 API_key = '44674012fd4ba79f40e241ea88f34db5'
14
15 # If no grid is specified or of the wrong format, then a default grid will be used.
16 # Set the default maidenhead gridsquare here:
17 default_grid = 'IN87UX'
18
19 # To enable email forwarding, uncomment ENABLE_EMAIL = True and add email account information below.
20 ENABLE_EMAIL = True
21 # ENABLE_EMAIL = True
22 MSG_EMAIL_NOTIFICATION = True
23 # MSG_EMAIL_NOTIFICATION = True
24 # SMTP email server account information:
25 email_address = 'f4iog.js8@gmail.com'
26 email_server = 'smtp-relay.sendinblue.com'
27 email_password = 'xsmtpsib-3acde8912d093279e37daacdce172acbb55afe805661f87f43ffacec6130fed6-s4fGJ9vcyXKCRanX'
28 message_email_address = 'email address to send notifications to'
29
30 # Message beacon settings
31 ENABLE_MESSAGE_BEACON_1 = False # Enable by replacing False with True
32 message_period_1 = 121 # Number of minutes between transmissions
33 message_file_path_1 = '/home/f4iog/Documents/RA/F1ZXO/JS8Call-WX_Server-main/qso_party.txt' # Path and file name of message
34 ENABLE_MESSAGE_BEACON_2 = True # Enable by replacing False with True
35 message_period_2 = 20 # Number of minutes between transmissions
36 message_file_path_2 = '/home/f4iog/Documents/RA/F1ZXO/JS8Call-WX_Server-main/help_test.txt' # Path and file name of message
37 ENABLE_MESSAGE_BEACON_3 = True # Enable by replacing False with True
38 message_period_3 = 360 # Number of minutes between transmissions
39 message_file_path_3 = '/home/f4iog/Documents/RA/F1ZXO/JS8Call-WX_Server-main/sendmail.txt' # Path and file name of message#
40 ENABLE_MESSAGE_BEACON_4 = True # Enable by replacing False with True
41 message_period_4 = 60 # Number of minutes between transmissions
42 message_file_path_4 = '/home/f4iog/Documents/RA/F1ZXO/JS8Call-WX_Server-main/heartbeat.txt' # Path and file name of message
43 ENABLE_MESSAGE_BEACON_5 = True # Enable by replacing False with True
44 message_period_5 = 243 # Number of minutes between transmissions
45 message_file_path_5 = '/home/f4iog/Documents/RA/F1ZXO/JS8Call-WX_Server-main/emcomm_services.txt' # Path and file name of message
46 # Mouse click simulator
47 ENABLE_MOUSE_CLICK_SIMULATOR = False # Enable by replacing False with True
48 mouse_click_period = 240 # Number of minutes between mouse clicks
49
```

```
330 if API_key == 'Your_API_key_Here':
331     print('Please enter your openweathermap.org API key in script in User Definition Area.')
332
333 #####
334 # Connect to JS8Call
335
336 js8host="192.168.43.85"
337 js8port=2442
338
339 print("Connecting to JS8Call...")
340 start_net(js8host,js8port)
341 print("Connected.")
342 get_band_activity()
343
344 #####
345 # Print my call and server connection status
346
347 my_call = get_callsign()
348 print(my_call + ' WX Server Active...')
349
350 # Text to trigger forecast transmission
351 wx_trigger = 'WX?'
352 wind_trigger = 'WIND?'
353 email_trigger = 'EMAIL?'
354 help_trigger = 'HELP?'
355 message_trigger = 'MSG'
356
357 # Initialize values and paths
358 request_grid = ''
359 transcript_file = 'transcript.txt'
360 # Set initial values of latitude and longitude to default settings
361 coords = mh.to_location(default_grid)
362 latitude = str(coords[0])
363 longitude = str(coords[1])
364
365 # Message Beacon Timers
366 previous_message_time_1 = time.time()
367 previous_message_time_2 = time.time()
368 previous_message_time_3 = time.time()
369 previous_message_time_4 = time.time()
370 previous_message_time_5 = time.time()
371
```

POSSIBILITÉ DE FAIRE D'AUTRES TRIGGERS

NPR-70

EN COURS ÉTUDE / VEILLE



- REMOTE DISTANCE MAINTANCE VIA NPR-70

TCPIP OVER UHF

**PARFAIT POUR ACCÈS SSH DE LA RASPBERRY PI OU AFFICHAGE D'UNE PAGE HTML
UNE SESSION VNC (REMOTE DESKTOP) FONCTIONNE AVEC UN DEBIT FAIBLE.**

SCHÉMAS DE PRINCIPE

BONUS : SOLUTION POUR FAIRE LA MAINTENANCE A DISTANCE

SITE R3 BROCELIANDE

TCP/IP OVER UHF

Ip : 192.168.2.254



MASTER

434 Mhz



RJ45



USB



RX TX

7078MHz / USB

F410G/P



JS8CALL
MODE AUTO



QRA

434 Mhz



CLIENT

Ip : 192.168.2.250

RJ45

F410G



L'OM INTERROGE
F410G/P



USB



NOVEMBRE 2021 – GUILLAUME F410G

MAI 2022 – GUILLAUME F410G

**- MULTI DIPOLE 80M/40M/20M FAIT ! ET
AUTOMATION CHANGEMENT DE BANDE
FAIT !**



CRONTAB ET AUTOMATIONS

RELANCE JS8CALL MÊME APRÈS UN CRASH OU REBOOT

```
#####  
#####  
# par F4IOG vers 2023-05-16 ####  
#####  
#### UTILE POUR POUR F1ZX0 ####  
#####  
###  
#LANCEMENT DE JS8CALL au demarrage ainsi que si l'application se coupe subitement  
* * * * * /home/pi/js8-start.sh >/dev/null 2>&1  
###  
#CHANGEMENT de BANDES et FREQ dans JS8CALL  
#pour le 80m, le 40m et le 20m  
00 17 * * * /home/pi/Documents/f1zxo/80mfreqjs8  
30 22 * * * /home/pi/Documents/f1zxo/40mfreqjs8  
00 12 * * * /home/pi/Documents/f1zxo/20mfreqjs8  
###  
#LANCEMENT APRSGRID MAINHEAD JS8CALL POUR LA POSITION APRS  
15 * * * * /home/pi/Documents/js8call_r3/txgrid  
@reboot /home/pi/Documents/js8call_r3/txgrid  
###  
#POUR WXSERVER js8call  
#@reboot /home/pi/Documents/f1zxo/wxserver_quickrun.sh  
#* * * * * systemctl restart /opt/JS8Call-WX_Station/wx_station.service  
###  
#au demarrage lance le script qui fait une capture d'ecran toute les secondes  
@reboot /home/pi/Documents/js8call_r3/js8-screenshot.sh  
###  
#reboot la raspi toute les nuits a 3h du matin pour evité les beug lié au QDX et la raspberry  
00 03 * * * /sbin/shutdown -r now
```


CRONTAB ET AUTOMATIONS

```
#####  
#####  
# par F4IOG vers 2023-05-16 ####  
#####  
#### UTILE POUR POUR F1ZX0 ####  
#####  
  
###  
#LANCEMENT DE JS8CALL au demarrage ainsi que si l'application se coupe subitement  
* * * * * /home/pi/js8-start.sh >/dev/null 2>&1  
  
###  
#CHANGEMENT de BANDES et FREQ dans JS8CALL  
#pour le 80m, le 40m et le 20m  
00 17 * * * /home/pi/Documents/f1zxo/80mfreqjs8  
30 22 * * * /home/pi/Documents/f1zxo/40mfreqjs8  
00 12 * * * /home/pi/Documents/f1zxo/20mfreqjs8  
  
###  
#LANCEMENT APRSGRID MAINHEAD JS8CALL POUR LA POSITION APRS  
15 * * * * /home/pi/Documents/js8call_r3/txgrid  
@reboot /home/pi/Documents/js8call_r3/txgrid  
  
###  
#POUR WXSERVER js8call  
#@reboot /home/pi/Documents/f1zxo/wxserver_quickrun.sh  
#* * * * * systemctl restart /opt/JS8Call-WX_Station/wx_station.service  
  
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#au demarrage lance le script qui fait une capture d'ecran toute les secondes  
@reboot /home/pi/Documents/js8call_r3/js8-screenshot.sh  
  
###  
#reboot la raspi toute les nuits a 3h du matin pour evité les beug lié au QDX et la raspberry  
00 03 * * * /sbin/shutdown -r now
```

PLAGE HORAIRE (HEURE LOC.)	FRÉQUENCE
18h30 - 7h / 13h30- 17h	7,078 MHz
7h - 13h30	14,078 Mhz
17h - 18h30	3,578 Mhz

Ce tableau évoluera en fonction des saisons et des utilisations .

EXEMPLE DU SCRIPT 80mfreqjs8.sh

AUTOMATION DU CHANGEMENT DE BANDE

```
pl@f1zxo: ~
Fichier  Édition  Onglets  Aide
GNU nano 3.2 Documents/f1zxo/80mfreqjs8

#!/usr/bin/env bash

#RAPPEL DU SCRIPT 80mfreqjs8.sh dans le crontab

#BAND DES 80m : 3.578.000 Hz

value="\`1000 3578000\`"
echo sending $value

#MAIL prevenir du QSY sur 80M

value2="\`@APRSIS CMD :EMAIL-2 :F4IOG@WINLINK.ORG F1ZX0 QSY 80m{05}\`"
echo sending $value2
printf '{"params": {}, "type": "TX.SEND_MESSAGE", "value": %s}\n' "${value2}" | nc -l -u -w 10 2242

sleep 120

#QSY sur 80m

printf '{"params": {}, "type": "RIG.SET_FREQ", "params":{"DIAL":3578000,"FREQ":3578000,"OFFSET":1000}}' | nc -l -u -w 10 2242

exit 0
```

← MISE EN FORME DE LA TRAME APRES MAIL

← ENVOIE DE LA TRAME VERS JS8CALL

← CHANGEMENT DE QRG VERS 3578 KHZ AVEC OFFSET DE 1000HZ

CRONTAB ET AUTOMATIONS

```
#####  
#####  
# par F4IOG vers 2023-05-16 ####  
#####  
#### UTILE POUR POUR F1ZX0 ####  
#####  
  
###  
#LANCEMENT DE JS8CALL au demarrage ainsi que si l'application se coupe subitement  
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30 22 * * * /home/pi/Documents/f1zxo/40mfreqjs8  
00 12 * * * /home/pi/Documents/f1zxo/20mfreqjs8  
  
###  
#LANCEMENT APRSGRID MAINHEAD JS8CALL POUR LA POSITION APRS  
15 * * * * /home/pi/Documents/js8call_r3/txgrid  
@reboot /home/pi/Documents/js8call_r3/txgrid  
  
###  
#POUR WXSERVER js8call  
#@reboot /home/pi/Documents/f1zxo/wxserver_quickrun.sh  
#* * * * * systemctl restart /opt/JS8Call-WX_Station/wx_station.service  
  
###  
#au demarrage lance le script qui fait une capture d'ecran toute les secondes  
@reboot /home/pi/Documents/js8call_r3/js8-screenshot.sh  
  
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#reboot la raspi toute les nuits a 3h du matin pour evité les beug lié au QDX et la raspberry  
00 03 * * * /sbin/shutdown -r now
```


CRONTAB ET AUTOMATIONS

**WXSERVER COMMENTÉ
PRÊT À SERVIR !**

```
#####  
#####  
# par F4IOG vers 2023-05-16 ####  
#####  
#### UTILE POUR POUR F1ZX0 ####  
#####  
  
###  
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30 22 * * * /home/pi/Documents/f1zxo/40mfreqjs8  
00 12 * * * /home/pi/Documents/f1zxo/20mfreqjs8  
  
###  
#LANCEMENT APRSGRID MAINHEAD JS8CALL POUR LA POSITION APRS  
15 * * * * /home/pi/Documents/js8call_r3/txgrid  
@reboot /home/pi/Documents/js8call_r3/txgrid  
  
###  
#POUR WXSERVER js8call  
#@reboot /home/pi/Documents/f1zxo/wxserver_quickrun.sh  
#* * * * * systemctl restart /opt/JS8Call-WX_Station/wx_station.service  
  
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#reboot la raspi toute les nuits a 3h du matin pour evité les beug lié au QDX et la raspberry  
00 03 * * * /sbin/shutdown -r now
```

CRONTAB ET AUTOMATIONS

```
#####  
#####  
# par F4IOG vers 2023-05-16 ####  
#####  
#### UTILE POUR POUR F1ZX0 ####  
#####  
  
###  
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* * * * * /home/pi/js8-start.sh >/dev/null 2>&1  
  
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30 22 * * * /home/pi/Documents/f1zxo/40mfreqjs8  
00 12 * * * /home/pi/Documents/f1zxo/20mfreqjs8  
  
###  
#LANCEMENT APRSGRID MAINHEAD JS8CALL POUR LA POSITION APRS  
15 * * * * /home/pi/Documents/js8call_r3/txgrid  
@reboot /home/pi/Documents/js8call_r3/txgrid  
  
###  
#POUR WXSERVER js8call  
#@reboot /home/pi/Documents/f1zxo/wxserver_quickrun.sh  
#* * * * * systemctl restart /opt/JS8Call-WX_Station/wx_station.service  
  
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#au demarrage lance le script qui fait une capture d'ecran toute les secondes  
@reboot /home/pi/Documents/js8call_r3/js8-screenshot.sh  
  
###  
#reboot la raspi toute les nuits a 3h du matin pour evité les beug lié au QDX et la raspberry  
00 03 * * * /sbin/shutdown -r now
```

**ENVIRON 2MIN POUR FAIRE UN
REBOOT TOTAL AVANT D'ETRE QRV**

AUTOUR DU JS8CALL

MICROBLOGS – PAUL MOPXO SUR UNE IDÉE DE OH8STN



Rechercher

JS8Call Microblogs Proof of Concept

Paul Offord MOPXO

16:01:12 - (1688) - ZEOFGO: MOPXO MB.LST >21 ◊

16:01:57 - (1687) - MOPXO: ZEOFGO: MICROBLOG POSTS

0022 - UK RETAIL SALES

0023 - HAARP THANKS HAMS

0024 - K7RA SOLAR UPDATE

0025 - MORE HAMS ON THE ISS

#END# ◊

16:04:17 - (1688) - ZEOFGO: MOPXO MB.GET 25 ◊

16:04:47 - (1688) - MOPXO: ZEOFGO: MICROBLOG #25

MORE AMATEUR RADIO ASTRONAUTS HEAD FOR THE INTERNATIONAL SPACE STATION

2023-01-06

THREE OF THE FOUR NEW ASTRONAUTS ON FEBRUARY PLANNED LAUNCH OF THE SPACEX CREW-6 MISSION TO THE INTERNATIONAL SPACE STATION (ISS) ARE AMATEUR RADIO OPERATORS. AND MISSION SPECIALIST SULTAN AL NEYADI, KI5YTY, WILL JOIN MISSION SPECIALIST ANDREY FEDYAIEV ON BOARD THE SPACEX DRAGON SPACECRAFT, ENDEAVOUR.

#END# ◊

PILOT WARREN "WOODY" HOBURG, KB3HTZ; COMMANDER STEPHEN BOWEN, KI5BKB,

0:05 / 20:03

Micro Blogging with JS8Call - Proof of Concept



Paul Offord
1,12 k abonnés

S'abonner

26



VARAC

VarAC by 4Z1AC (V6.6.13)

Settings Tools Logs Resources About UTC: 2023-03-01 10:47:40

NO NEW VMAIL RELAY Outbox: 1 Parking: 0

FREQUENCY: 14.105.100 MyCall: ON5AM Connect: OH2MH

VarAC Log

Bnd	Time	Callsign	BW	SNR
20m	10:30	OH2MH	500	-10
20m	10:30	OH8XAT	500	+00
20m	10:27	SP5IXS	500	+00
20m	10:22	SV1GGY	500	-10
20m	10:20	ON6DP	500	-07
20m	10:13	DJ1JE	500	-18
20m	10:10	HB9BXQ	500	-16
20m	10:10	LZ1XM	500	-05

VARA commands

10:47:13 - PTT ON
10:47:14 - PTT OFF
10:47:20 - DISCONNECTED
10:47:20 - BUSY OFF

In QSO with: _____ Message: _____ File: _____

Bnd	Time	From	To	SNR	Broadcast message
20m	10:11	LZ1XM	ALL	-02	Hello everyone!

10:43:25 - OH2MH/QRP> And if you have any questions, please ask help from our Telegram or FB group
10:46:02 - ON5AM> Have a nice day Mikko, Thanks for infos best 73!
10:47:02 - OH2MH/QRP> Thx Albert!
10:47:16 - QSO SUMMARY: Frequency: 14.104.350 (20m) Duration: 00:16:36
10:47:16 - DISCONNECTED FROM OH2MH

**BEACON
CHAT
MAIL AVEC PJ**

VARAHF

VARA HF v4.6.1 F1EFW

Settings View Log* Monitor Help Upgrade

Waterfall plot showing signal activity.

Bar chart showing signal strength in bps.

GAUGES:

- VU: Audio Input: -23 dBFS
- CPU: CPU Usage: 15 %
- AFC: AFC: +70.3 Hz
- S/N: S/N (2500 Hz): -7.7 dB

DATA: ACK, IDLE, NACK, BREAK, REQ, QRT

3 RX F1EFW <-> CT1CPS [3] 82 bps 31 Bytes 2300 LISTEN TCP BUSY

WINLINK EXPRESS ET VARAHF

MAIL

The screenshot displays the Winlink Express 1.5.44.0 interface. The main window shows an email list for the 'Inbox' folder. A 'VARAHF v4.5.5' monitoring window is overlaid, featuring a waterfall plot and four gauges: VU (Audio Input: -26 dBFS), CPU (CPU Usage: 6%), AFC (AFC: +20.5 Hz), and S/N (S/N (2500 Hz): +5.2 dB). A session log window titled 'Vara HF Winlink Session - F4HVQ' is also open, showing connection details and a log of messages.

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2022/01/17 14:24	99A2G1Y115X0	346	F4KMV	F4KMV	F4KMV	essais de mailHF via ARDOP
2022/01/17 14:07	5Y6J35FR7CIN	353	F4EED	F4EED	F4HVQ	Re: TEST
2022/01/17 14:06	0BNO3UBANJC4	283	F4EED	F4EED	F4HVQ	Re: test via telnet
2022/01/16 14:38	J93CHY2D3PN	460	SYSTEM	SERVICE	F4HVQ	Password Change Notification

```
VARA HF v4.5.5 F4HVQ
Settings View Log* Monitor Help Upgrade

1.0
0.8
0.6
0.4
0.2
0.0
0.0 0.2 0.4 0.6 0.8 1.0

VU CPU AFC S/N
Audio Input: -26 dBFS CPU Usage: 6% AFC: +20.5 Hz S/N (2500 Hz): +5.2 dB

(4) 175 bps 3 Bytes 2300 LISTEN TCP BUSY

Please notify the Winlink System Administrator (R4CJX) if you have reason
Thanks for using Winlink

Exit Settings Switch to Peer-to-Peer Channel Selection Map Forecast Best chan. Next chan. Start Stop Abort
HB9AK Center Freq. (kHz): 7051.500 Dial Freq. (kHz): 7050.000 Bearing: 119 Quality: 50
Favorites: FSZFX @ 7051.000 (2300) (58) Select Add to favorites Remove from favorites
Channel Busy In: 0/0 Out: 168/168 BPM: 1064 Connected to HB9AK

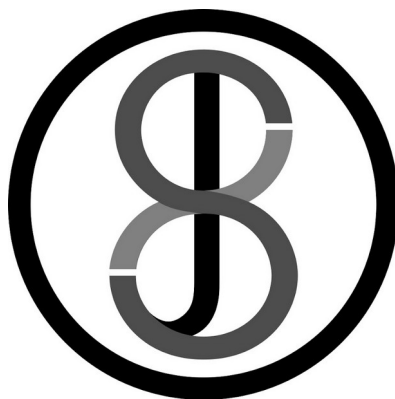
RMS Trimode 1.3.43.0 *** WINLINK BERN ***
F4HVQ has 89 daily minutes remaining with HB9AK (UN3SPV)
[WL2K-5.0-B2FWMMS]
PQ: 36588872
CMS via HB9AK >
.FW: F4HVQ
[RMS Express-1.5.44.0-B2FHM8]
.PR: 95202051
.HB9AK DE F4HVQ (JN18CV)
.FC EM C1NVSC3C80YE 179 168 0
.F> 7F
FS Y
*** Sending C1NVSC3C80YE.
FF
*** Completed send of message C1NVSC3C80YE
*** Sent 1 message. Bytes: 181. Time: 00:22, bytes/minute: 485
PQ
*** -- End of session at 2022/01/19 08:22:38 --
*** Messages sent: 1. Total bytes sent: 181. Time: 01:01, bytes/minute: 178
*** Messages Received: 0. Total bytes received: 0. Total session time: 01:01, bytes/minute: 0
*** Disconnecting
```

F1ZX0

LE RELAIS JS8CALL DE BROCÉLIANDE

APRS À L'OUEST - NANTES
26 NOVEMBRE 2023

GUILLAUME - F4IOG



Crédit : Axel et Oriane (f8aks)

7 078 000
1703 Hz

F4IOG - IN87UX
19:59:18
2022 mai 16

RX TX NORMAL+MULTI+AUTO+HB
SPOT LOG TUNE

Offset	Age	SNR	Message(s)
1230 Hz	now	+01 dB	...6MLY HEARTBEAT SNR -11 ◊ F1ZXO: VK3STW> STATUS? CQO *DE* F4IOG Z9E ◊
540 Hz	2m	+08 dB	...3COR: GM0DHD HEARTBEAT SNR -12 ◊ G4PQP: SM6MLY HEARTBEAT SNR +04 ◊
2068 Hz	2m	+16 dB	...J0KYZ: PH7FE HEARTBEAT SNR -04 ◊ GJ0KYZ: SM6MLY HEARTBEAT SNR -09 ◊
1354 Hz	2m	-01 dB	...6TWY: PH7FE HEARTBEAT SNR -06 ◊ SM6TWY: SM6MLY HEARTBEAT SNR +01 ◊
940 Hz	2m	-12 dB	...8 ◊ GM0DHD: @HB HEARTBEAT IO85 ◊ M0KNC: SM6MLY HEARTBEAT SNR -11 ◊
465 Hz	2m	-01 dB	...QW: GM0DHD HEARTBEAT SNR +05 ◊ M6AQW: SM6MLY HEARTBEAT SNR -09 ◊
736 Hz	2m	-11 dB	...0KNC: OH8STN HEARTBEAT SNR -13 ◊ PH7FE: SM6MLY HEARTBEAT SNR -08 ◊
1978 Hz	2m	-09 dB	...J067 ◊ SM6MLY: @HB HEARTBEAT J067 ◊ SM6MLY: @HB HEARTBEAT J067 ◊
710 Hz	4m	-14 dB	E78CB: @HB HEARTBEAT JN92 ◊
1526 Hz	8m	-10 dB	...IO81 ◊ G5JDA: @ALLCALL CQ CQ CQ IO81 ◊ G5JDA: @ALLCALL CQ CQ CQ IO81 ◊
1495 Hz	8m	-21 dB	F4IOG ACK R80 ◊
1847 Hz	13m	-09 dB	... ◊ OH8STN: @HB HEARTBEAT KP25 ◊ OH8STN: SM6MLY HEARTBEAT SNR -08 ◊
840 Hz	13m	+10 dB	...SR3COR: SM6MLY HEARTBEAT SNR -04 ◊ G4PQP: PH7FE HEARTBEAT SNR -06 ◊
696 Hz	13m	-02 dB	...H7FE: SM6MLY HEARTBEAT SNR -05 ◊ GM0DHD: PH7FE HEARTBEAT SNR -17 ◊

19:47:22 - (1703) - F4IOG: F1ZXO> VK3STW>HI 8 IN W-FRANCE GUILLAUME BTU Q83 ◊

19:50:58 - (1230) - F1ZXO: F4IOG> ACK *DE* VK3STW ◊

19:53:24 - (1703) - F4IOG: F1ZXO QUERY CALL VK3STW? L8C ◊

19:54:12 - (1230) - F1ZXO: F4IOG YES -13 (3M) ◊

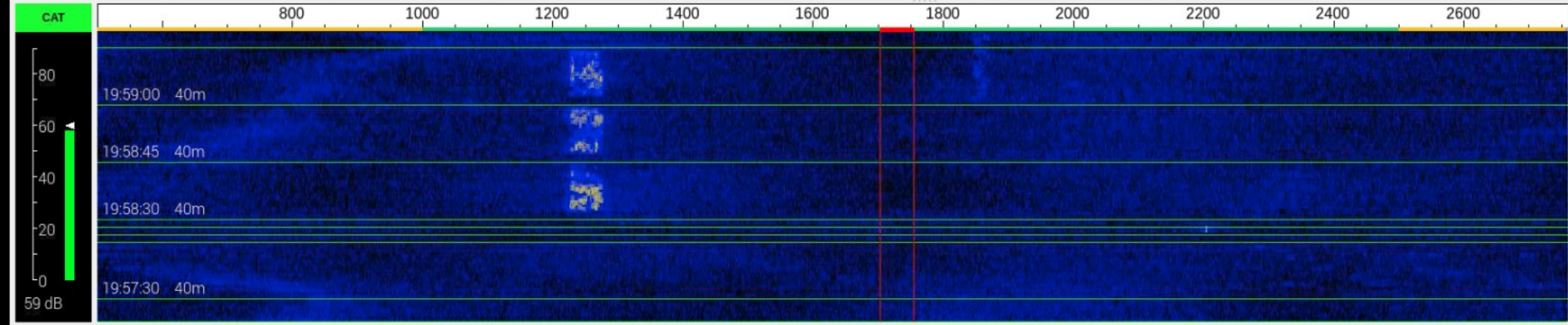
19:55:01 - (1703) - F4IOG: F1ZXO> VK3STW>STATUS? CQO ◊

19:57:42 - (1703) - F4IOG: F1ZXO> VK3STW>STATUS? CQO WDZ ◊

TYPE YOUR OUTGOING DIRECTED MESSAGE TO F1ZXO HERE.

★ Callsigns (26)	Age	SNR	Grid	Distance	Name	Comment
@HAMLAB						
@NET						
@QRP						
@QSOPARTY						
@R1EMCOR						
@RASEC						
@REGION/1						
@WXREPORT						
★ F1ZXO	30s	+03 dB				
★ G4PQP	2m	+08 dB	J002	558 km / 24°		
GJ0KYZ	2m	+16 dB	IN89	178 km / 344°		
SM6TWY	2m	-01 dB	J057	1387 km / 35°		
★ M0KNC	2m	-12 dB	IO91	405 km / 13°		
★ M6AOW	2m	-01 dB				

HB CQ REPLY SNR INFO STATUS Saved Directed to F1ZXO Deselect Send (15s) Halt



Control Display Timing

Offset: 1703 Hz

QSY: QSY

Center: 1500 Hz

Filter: Enable Filter

Center: 1500 Hz