

N4KIN

02:13:41
2021 Feb 06

RX

TX

FAST+MULTI+AUTO+CONF+HB

SPOT

LOG

TUNE

368) - N4KIN: WE4SEL HELLO, MY NAME IS JACK AND I LIVE IN PALM HARBOR, FL WEST OF TAMPA. PRETTY NEW TO JS8CALL. BTU ◊

369) - WE4SEL: N4KIN FB JACK, OP BYRON, QTH ECRU MS, LOOKS LIKE UR DOING GUD. UR +09, HW CPY? ◊

360) - N4KIN: WE4SEL I HAVE YOU AT +01. I'VE DONE A LOT OF FT8. TRYING THIS OUT AND DOING A PRES ON IT TOMM 4 MY RADIO

369) - WE4SEL: N4KIN RR HAVE DONE FT8 TOO, I FIG WE ALL HAVE. NOW JUST USE IT FOR TESTING ANTS. SPEND MOST OF MY TIME
↓ PRES. RECORD AND SHARE I HOPE? BTU ◊

360) - N4KIN: WE4SEL I NEED TO FIND OUT IF OUR ZOOM IS RECORDED. BE GLAD TO GET BACK TO THE FIRE STATION FOR REAL
TU ◊

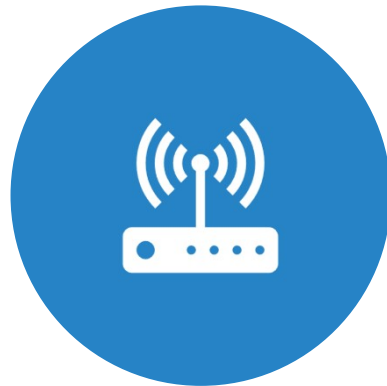
369) - WE4SEL: N4KIN RR UNDERSTOOD. AM KINDA BORING TONIGHT. 5W ON EXP MAGLOOP FROM RASPI4 AND 7300. RECOVERING
TNF Δ I WFFK ◊

★	Callsigns (47)	Age	SNR	Offset	✓	Name	Comment
	@ALLCALL						
	@RETRO						
	N0GQ	now	-04 dB	1989 Hz			
★	KX4UK	now	+08 dB	1147 Hz			
	KI4HDU	now	+06 dB	647 Hz			
	N2SCD	15s	-09 dB	846 Hz			

GETTING STARTED WITH JS8/JS8CALL

JACK KINNEY, N4KIN

JS8/JS8CALL ARE...



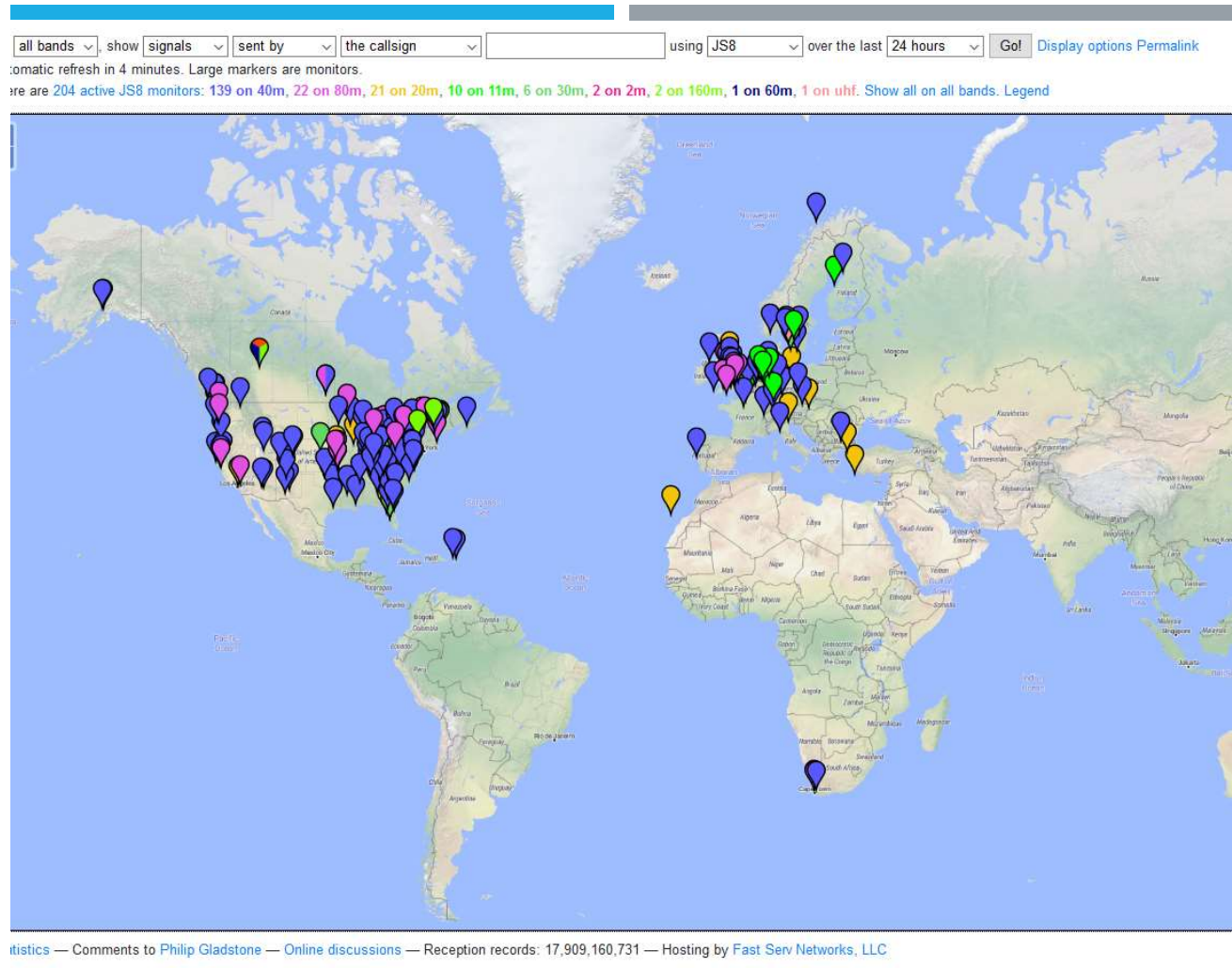
JS8 IS THE PROTOCOL
JS8CALL IS THE SOFTWARE



CREATED BY JORDAN SHERER, KN4CRD
USING FT8 PROTOCOL AS A BASE

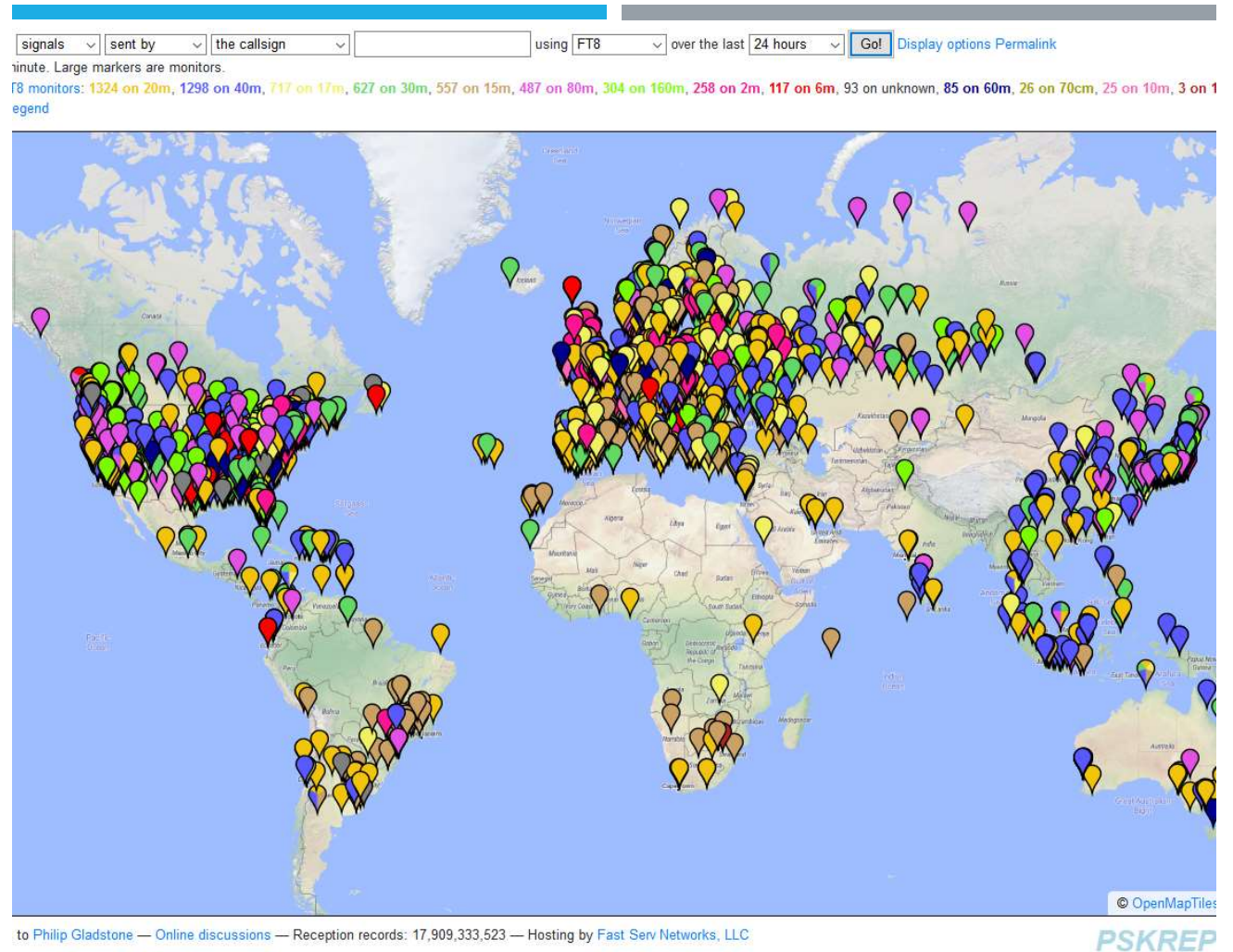
WHO'S USING JS8

- Source: pskreporter.info
- 1/22 8:30 AM thru 1/23 8:30



COMPARED TO FT8

- Source: pskreporter.info
- 1/22 8:30 AM thru 1/23 8:30



Band	Frequency
160m	1.842
80m	3.578
40m	7.078
30m	10.130
20m	14.078
17m	18.104
15m	21.078
12m	24.922
10m	28.078
6m	50.318

**WHERE CAN YOU
FIND JS8
TRAFFIC?**

FT8 VS JS8...SOME DIFFERENCES

Item	FT8	JS8
Mode	FT8	MFSK
Sub-Mode	None	JS8
Format	Structured	Unstructured/RagChew
TX/RX Interval	15s	Depends on message length. Xmit in Frames
Sideband	USB	USB
Appears in Log as: LoTW	FT8	DATA
Appears in Log as: QRZ	FT8	JS8

WHAT YOU NEED TO GET STARTED...



RADIO



COMPUTE
DEVICE



ACCURATE
TIME



JS8CALL
SOFTWARE

SAME BASICS AS FT8



AUDIO



A DESIRE TO
LEARN



A LITTLE
PATIENCE



RADIO

- Rig Control
- Audio Out
- Audio In

COMPUTE DEVICE

- Ability to run JS8Call software
- Interface for Rig Control
- USB or Audio Out + Audio Cable
- USB or Audio In + Audio Cable



ACCURATE TIME

- Seconds count...
- ...against you
- Check your [time](#)
- NTP keeps you on time. I use [Meinberg NTP](#)



JS8 SOFTWARE

- [JS8Call](#) – Software from the author.
- Runs on:
 - Windows
 - Mac
 - Linux
 - RaspberryPi

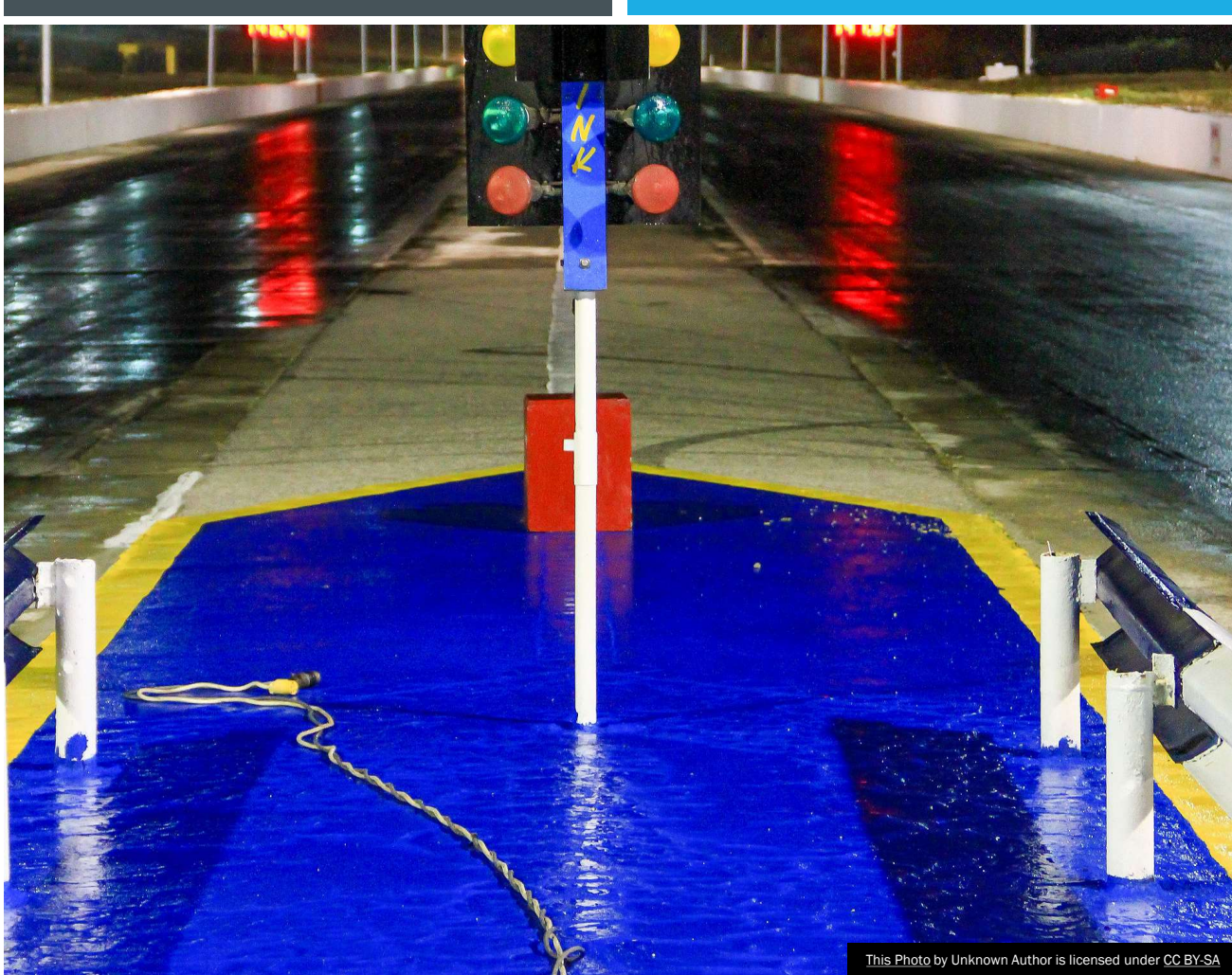
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    if path:
        self.file = open(os.path.join(path, "requests.txt"), "a")
        self.file.seek(0)
        self.fingerprints.update(request)

    @classmethod
    def from_settings(cls, settings):
        debug = settings.getbool("SUPERFINGERPRINT_DEBUG")
        return cls(job_dir(settings), debug)

    def request_seen(self, request):
        fp = self.request_fingerprint(request)
        if fp in self.fingerprints:
            return True
        self.fingerprints.add(fp)
        if self.file:
            self.file.write(fp + os.linesep)

    def request_fingerprint(self, request):
        return request_fingerprint(request)
```



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JS8CALL IN ACTION

7.078 000

1320 Hz

Rig Control

N4KIN

14:17:01
2021 Jan 23

RX

TX

FAST+MULTI+AUTO+CONF+HB+ACK

SPOT

LOG

TUNE

Offset	Age	SNR	Message(s)
1340 Hz	15s	+04 dB	CHORES BUT TIME OFF WUD BE NICE
850 Hz	15s	+07 dB	KSMKS: N4KIN HEARTBEAT SNR +03 ◊ KR4PPY: VE3SCH HEARTBEAT SNR +10 ◊
598 Hz	15s	-05 dB	KSMGK: N4KIN HEARTBEAT SNR -15 ◊ WS3H: VE3SCH HEARTBEAT SNR +05 ◊
676 Hz	15s	-12 dB	KDOWLB: N4KIN HEARTBEAT SNR -04 ◊ KU3LJ: VE3SCH HEARTBEAT SNR -22 ◊
2341 Hz	30s	-04 dB	WP4OH: N4KIN HEARTBEAT SNR -06 ◊
2219 Hz	30s	+04 dB	W9DRR: N4KIN HEARTBEAT SNR -10 ◊
1645 Hz	30s	-04 dB	WBAPP: N4KIN HEARTBEAT SNR -13 ◊
1052 Hz	30s	-09 dB	N9KYD: @BALLCALL CQ CQ CQ EM12 ◊
976 Hz	30s	-08 dB	NMSXD: N4KIN HEARTBEAT SNR -10 ◊
555 Hz	30s	-10 dB	KE4BML: N4KIN HEARTBEAT SNR -06 ◊
495 Hz	30s	+04 dB	K3CJM: N4KIN HEARTBEAT SNR -08 ◊
775 Hz	30s	-07 dB	KU3LJ: N4KIN HEARTBEAT SNR -08 ◊
2838 Hz	1m	-17 dB	/BV/Y3/K9V 3057 ◊
541 Hz	1m	+02 dB	KDOWLB: N9KYD HEARTBEAT SNR -03 ◊

Band Activity

Time	Message(s)
14:16:17 - (775)	KU3LJ: N4KIN HEARTBEAT SNR -08 ◊
14:16:27 - (495)	K3CJM: N4KIN HEARTBEAT SNR -08 ◊
14:16:27 - (555)	KE4BML: N4KIN HEARTBEAT SNR -06 ◊
14:16:27 - (601)	KSMGK: N4KIN HEARTBEAT SNR -15 ◊
14:16:27 - (691)	KDOWLB: N4KIN HEARTBEAT SNR -04 ◊
14:16:27 - (847)	KSMKS: N4KIN HEARTBEAT SNR +03 ◊
14:16:27 - (976)	NMSXD: N4KIN HEARTBEAT SNR -10 ◊
14:16:27 - (1645)	WBAPP: N4KIN HEARTBEAT SNR -13 ◊
14:16:28 - (2219)	W9DRR: N4KIN HEARTBEAT SNR -10 ◊
14:16:28 - (2341)	WP4OH: N4KIN HEARTBEAT SNR -06 ◊
14:16:45 - (1320)	N4KIN: GOOD MORNING AND THANK YOU! ◊

Directed Activity

N4KIN: GOOD MORNING AND THANK YOU!

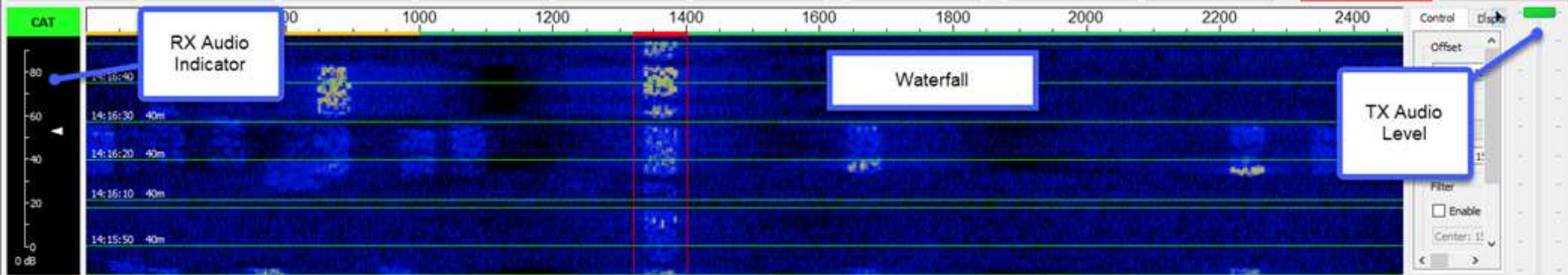
Outgoing Messages

★ Callsigns (33)	Age	SNR	Offset	Name	Comment
@BALLCALL					
@RETRO					
AC8SM	15m	+15 dB	649 Hz		
FE/DF5/1XP	16m	-18 dB	2751 Hz		
★ KSMGK	30s	-07 dB	601 Hz		
★ KSMKS	30s	-01 dB	847 Hz		
K6RZ	15m	-07 dB	700 Hz		
★ K3CJM	30s	+04 dB	495 Hz		
KC3PBI	17m	+12 dB	941 Hz		
KD0RQU	18m	+00 dB	870 Hz		
★ KDOWLB	30s	-09 dB	691 Hz		
★ KE4BML					
KE8DOC	18m	+05 dB			
KF7GYN	28m	-22 dB			

Calling Stations

Our stations hear each other

HB + ACK CQ REPLY SNR INFO STATUS Saved Directed Deselect Sending (9%) Halt



RX Audio Indicator

Waterfall

TX Audio Level

TX: MORNING AND THANK YOU! 256 Last Tx: N4KIN: GOOD 1/10 18.0vpm / 102.0cpm

DIRECTED COMMANDS

- JS8Call offers pre-defined messages for common functions

INFO - Send my station information

GRID EL88OB - 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.

PRE-DEFINED MESSAGES

- You can also create and save custom messages.

TNX 73 GL


HELLO JACK IN PALM HARBOR, FL EL88

CQ CQ CQ EL88

Edit Saved Messages

Save Current Message

JS8 EXCHANGE

- Unlike the structured exchange of FT8, JS8 doesn't have one.
- You can carry on a full QSO
- QSO between N4KIN and WE4SEL 

01:28:05 - (1868) - N4KIN: WE4SEL HELLO, MY NAME IS JACK AND I LIVE IN PALM HARBOR, FL WEST OF TAMPA. PRETTY NEW TO JS8CALL. BTU ◇

01:30:17 - (1869) - WE4SEL: N4KIN FB JACK, OP BYRON, QTH ECRU MS, LOOKS LIKE UR DOING GUD. UR +09, HW CPY? ◇

01:32:11 - (1860) - N4KIN: WE4SEL I HAVE YOU AT +01. I'VE DONE A LOT OF FT8. TRYING THIS OUT AND DOING A PRES ON IT TOMM 4 MY RADIO CLUB. ◇

01:34:02 - (1869) - WE4SEL: N4KIN RR HAVE DONE FT8 TOO, I FIG WE ALL HAVE. NOW JUST USE IT FOR TESTING ANTS. SPEND MOST OF MY TIME HERE. FB ON PRES. RECORD AND SHARE I HOPE? BTU ◇

01:36:37 - (1860) - N4KIN: WE4SEL I NEED TO FIND OUT IF OUR ZOOM IS RECORDED. BE GLAD TO GET BACK TO THE FIRE STATION FOR REAL MEETINGS. BTU ◇

01:38:59 - (1869) - WE4SEL: N4KIN RR UNDERSTOOD. AM KINDA BORING TONIGHT. 5W ON EXP MAGLOOP FROM RASPI4 AND 7300. RECOVERING FROM MIGRAINE ALL WEEK. ◇

01:41:20 - (1860) - N4KIN: WE4SEL MIGRAINES SUCK. MY DAUGHTER GETS THEM. SPENT SEVERAL NIGHTS IN HOSP. W/ HER GETTING MIGRAINE COCKTAIL. ONE WAS SO BAD SHE LOST VISION IN ONE EYE FOR TWO DAYS. ◇

01:43:48 - (1869) - WE4SEL: N4KIN RR HATE IT FOR HER TOO. DRINKING COFFEE NOW THAT IT'S PASSED CAUSE I'M TIRED OF BEING IN BED/ ASLEEP WHEN IT WAS TOO MUCH. SO HOW'S THINGS DOWN UR WAY? BTU ◇

01:47:19 - (1860) - N4KIN: WE4SEL SUPERBOWL ON SUNDAY 20MI AWAY BUT I'M STAYIN HERE. TOO MANY PEOPLE. OTHERWISE QUIET. I WFH DOING TELECOMM/NETWORK. NO SIGN CHANG SOON IM FINE W IT. I RUN 7300 @ 100W TO WIRE ANT SADLY ONLY 20FT UP ◇

01:51:16 - (1868) - N4KIN: WE4SEL WRKS GUD. WFNOT BEEN TO ECRU BUT TO SOUTHAVEN A FEW TIMES ◇

01:51:18 - (1868) -AWAY SNDS LIKE FB PLAN 4 SURE. SORESEMBLE NORMAL. BTU ◇

01:53:48 - (1868) - N4KIN: WE4SEL YEP. ENJOYED QSO BUT NEED TO RUN TO FIN. PRES. AND SPEND TIME WITH XYL. THANKS FOR BEING MY FIRST JS8 QSO! ◇

01:55:37 - (1870) - WE4SEL: N4KIN FB STN WILL PROB BE ON AND IDLE IF U NEED SMTH TO BOUNCE SIGS FROM FOR TESTS OR SCREENS OR WHATEVER. C U DOWN WAVE AND 73 ◇

01:57:17 - (1870) - N4KIN: WE4SEL TNX AND 73 ◇

01:57:58 - (1869) - WE4SEL: N4KIN DIT DIT ◇

JS8CALL LOG ENTRY

- Access Logging by clicking Log button.



- Two logs created:
 - js8call.log – FT8 format log
 - Js8call_log.adi – ADIF format log
- For Windows, logs located in:
 - C:\Users\[username]\AppData\Local\JS8Call
- For me:
 - C:\Users\n4kin\AppData\Local\JS8Call
- No logging automation.

A screenshot of the 'JS8Call de KN4CRD (v2.2.0) - Log QSO' dialog box. The dialog contains the following fields and controls:

- Operator Callsign: N4KIN
- Contact Callsign: WP4OH
- Start: 2021-01-23 14:16:40 (dropdown) [Now button]
- End: 2021-01-23 14:37:23 (dropdown) [Now button]
- Mode: JS8
- Band: 40m
- Signal Report Sent: +05
- Signal Report Received: -15
- Grid: FK68
- Name: Omar A. Hernandez-Calero
- Comments: This is a test
- Retain Comments
- [Add New Field button]
- [Add to Log button] [Cancel button]

D**E****M****O**

MORE INFORMATION

Website	Description
http://www.js8call.com	Home of JS8Call software
https://docs.google.com/document/d/159S4wqMUVdMA7qBgaSWmU-iDI4C9wd4CuWnetN6809U/edit	Getting Started Guide
https://groups.io/g/js8call	JS8Call Discussion Group
https://github.com/jsherer/ft8call	FT8Call Design Document

Any
Questions