

WSPR

OH2AP

”Pikkujoulu 7.1.2021”

WSPR

- Weak
- Signal
- Propagation
- Reporter

Kuiskaaja:

heikkojen signaalien kelien kertoja

WSPR

- Pieni lähetysteho, muutama milliwatti
- Lähetys tietyillä taajuuksilla
- Lähetys alkaa parillisella minuutilla
- Lähetysten kesto 110,6 s
- Lähetysaika saadaan GPS:stä
- Vastaanoton synkronointi, yleensä nettiaika ei ole tarpeeksi tarkka

WSPR

- Jos lähetys on vain yhdellä taajuudella niin lähetysten väli on 10 min sopimuksen mukaisesti
- Antennitarve vain yhdelle taajuudelle
- Monialueantennilla saadaan käyttöön useampi taajuusalue.
- Esim. vertikaali 1,6 – 30 MHz

WSPR-lähetin

- Lähettimen voi rakentaa vaikka itse perustuen Raspberry Pi:hin
- Valmis lähetin esim: Zachtek
www.zachtek.com
- Lähettimen käyttö: Youtube
 - <https://www.youtube.com/watch?v=AXmzQP0VwZ4>
 - <https://www.youtube.com/watch?v=74olwcvWH50>

WSPR



WSPR-lähetin

- Valmis lähetin Zachtek
- Mukana on GPS-antenni.
- Lähetintä voi käyttää ilman PC:tä konfiguroinnin jälkeen
- Asetukset tallennetaan eepromille ja sen jälkeen voidaan liittää ulkoinen virtalähde
- Lähetin menee päälle automaattisesti

WSPR

- Seuranta:
<http://wsprnet.org/drupal/>
- Tälle sivustolle tulee raportit niiltä, jotka ovat määritelleet sen ja on nettiyhteys
- Sivustolla on kartta ja tiedostoja, joista saa vaikka omat kuulumiset

WSPR

← → ↺ 🏠 ⚠ Ei suojattu | wsprnet.org/drupal/

☆ ☆ ⚙ 🗨 👤



WSPRnet

Welcome to the Weak Signal Propagation Reporter Network

[Activity](#) | [Map](#) | [Database](#) | [Forum](#) | [Downloads](#)

User login

Username *

Password *

[Create new account](#)
[Request new password](#)

[Log in](#)

Frequencies

USB dial (MHz): 0.136, 0.4742,
1.8366, 3.5686, 5.2872, 5364.7,
7.0386, 10.1387, 14.0956,
18.1046, 21.0946, 24.9246,
28.1246, 50.293, 70.091,
144.489, 432.300, 1296.500

Navigation

► [Forums](#)

3rd Party Maps and Data

VK7JJ Site
KB9AMG Monthly Stats
WA2ZKD Spot Analysis
DJ2LS WSPR Spot Heat Map

Who's online

There are currently 79 users
online.

- DJ2LS
- ZB2YN
- AI6VN
- MW0NAB

The Weak Signal Propagation Reporter Network is a group of amateur radio operators using K1JT's MEPT_JT digital mode to probe radio frequency propagation conditions using very low power (QRP/QRPp) transmissions. The software is open source, and the data collected are available to the public through this site.

Submitted by W1GJM
on Sun, 2020/10/18 - 15:00

Site changes for new WSPR FST4W modes

Forums:
[WSPRnet.org Site](#)

Since around version 2.1.1 wsjt-x has been uploading a 'mode' value that WSPRNet has not been consuming. With the advent of new FST4W quasi-beacon modes we will now consume that value. Going forward we will process the 'mode' according to 4 values:

- "2"
- "15" for the current WSPR modes -2 & -15
- "5"
- "30" for the FST4W modes 300 & 1800

This change applies to the manual upload too, i.e. WSPRNet will support an **11th column** 'mode' which can be one of these above 4 values.

[Read more](#) [Log in or register to post comments](#)

Submitted by W1GJM
on Thu, 2018/07/26 - 15:14

[From Admins] Map issue -- a fix of sorts

Forums:
[WSPRnet.org Site](#)

The issue with the Google Maps is related to the change Google made on July 16th, 2018 that severely curtails the free API limits. WSPRNet will be transitioning to an alternative mapping solution as soon as possible.

In the interim I have added a new field to the User Profile form for storing your own Google Maps API Key, if you want to get back to the way things were. You can get your own API Key by following the link below and I would strongly encourage you to read the Q&A down the page.

[Read more](#) [Log in or register to post comments](#)

Australian 50 & 144 MHz WSPR Leaderboard Challenge

WSPR

Ei suojattu | wspotnet.org/drupal/wspotnet/map
☆ ☆ 🏠 👤

User login

Username *

Password *

Map

Frequencies

USB dial (MHz): 0.136, 0.4742, 1.8366, 3.5686, 5.2872, 5364.7, 7.0386, 10.1387, 14.0956, 18.1046, 21.0946, 24.9246, 28.1246, 50.293, 70.091, 144.489, 432.300, 1296.500

Navigation

- Forums

3rd Party Maps and Data

- VK7JJ Site
- KB9AMG Monthly Stats
- WA2ZKD Spot Analysis
- DJ2LS WSPR Spot Heat Map

Who's online

There are currently 81 users online.

- DJ2RD
- KD2OM
- A14RY
- F8BOJ
- W0yse
- DL2SBA
- T4A_G8SCU
- DK2DB
- HA3PG
- pe0fko
- vk2kcm
- on7kb
- VK2IJM
- DL6NL

Update

Band

Show only spots on this band.

☐ Use Band Colors

When checked on path colors are coded according to band

Maximum number of spots limit has been reached (500). Not all spots for the form limits have been returned

WSPR-parametrit

Maximum n

Update

Band

All ▼

Show only spots on this band.

☒ Use Band Colors

When checked on, path colors are coded according to band

Call

OH2GJL

If non-blank, show only those spots involving the specified call

Latitude

50

Center of map latitude

Longitude

20

Center of map longitude (east positive, west negative)

Default Zoom

4 ▼

Preferred zoom factor (2 = whole world)

Time period

12 hours ▼

Show spots in this period of time

☐ Day/Night overlay

Shows which areas of the earth are in daylight.

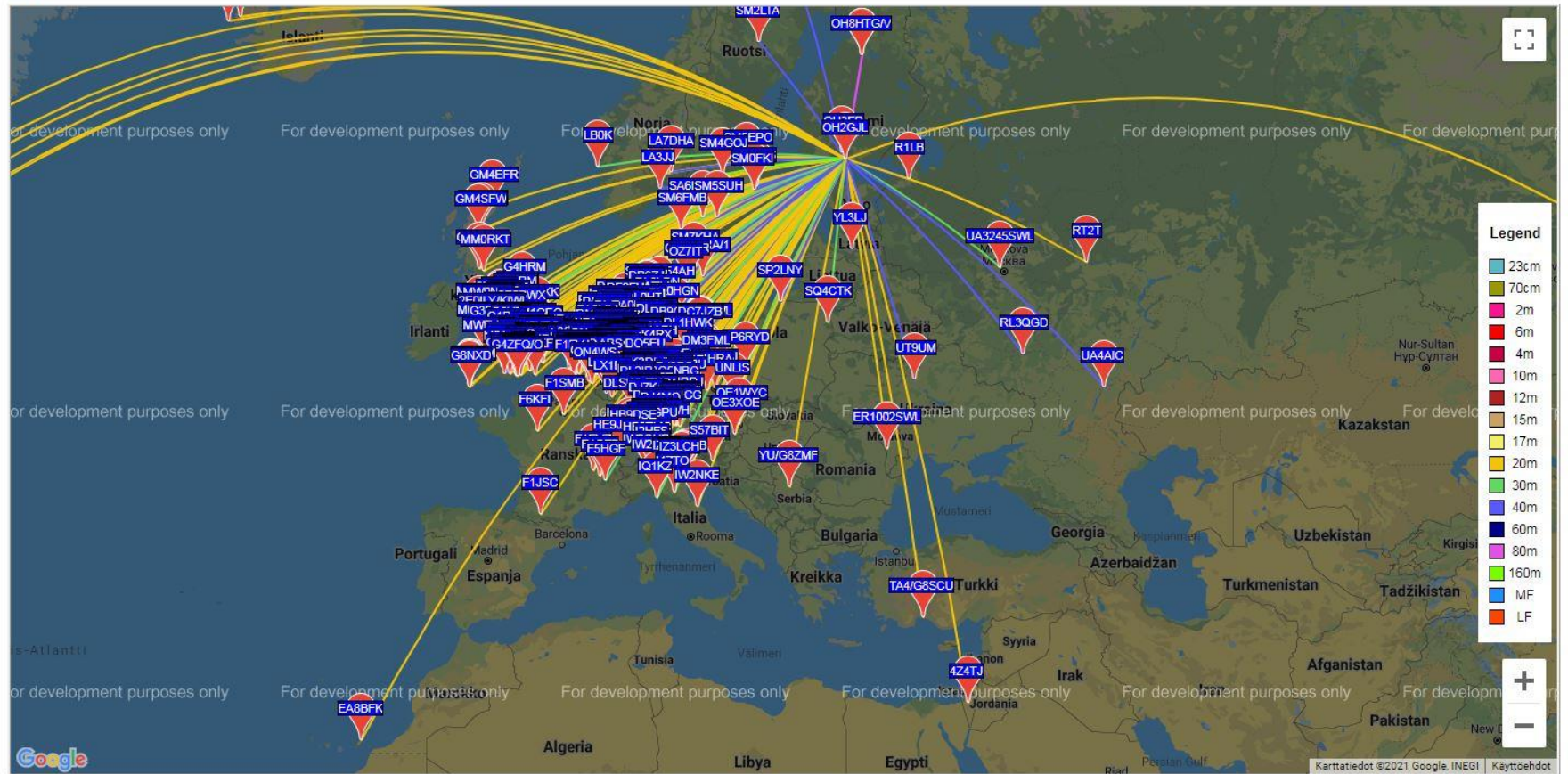
☒ Exclude Special Callsigns

Excludes calls starting with Q and O, typically used for balloon telemetry

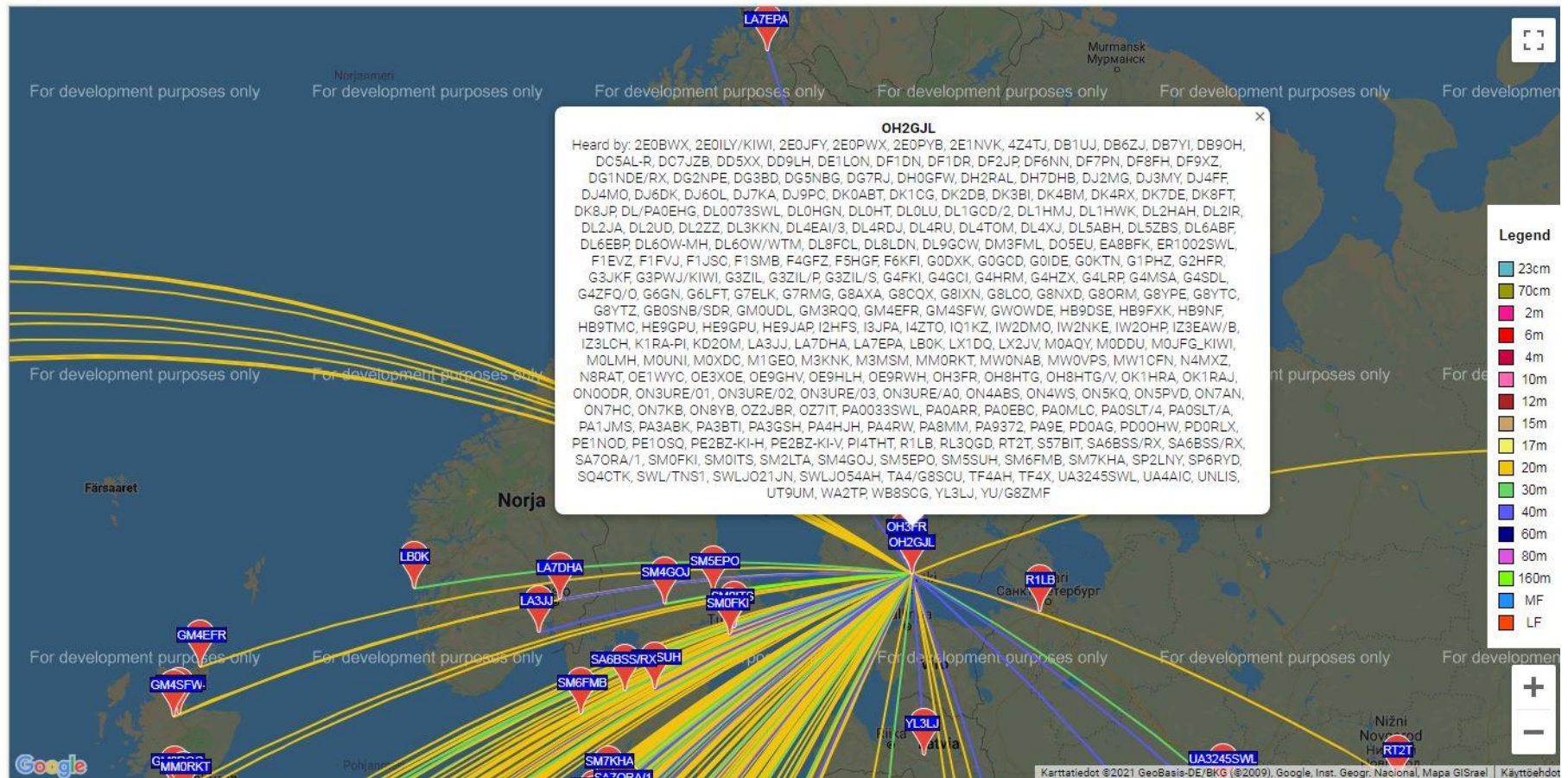
If the map fails to load then try an [alternative](#). Note this is off site.

WSPR

Map



Map



WSPR

Database

Band

All ▼

Show only spots on this band.

Mode

All ▼

BETA: Filter by WSPR mode. 5 and 30 are FST4W MF/LF

Count

7000

Maximum number of spots to show (10000)

Call

OH2GJL

Only show spots of this callsign. Use * at the end (only) for wildcard searches.

Reporter

Only show spots reported by this call. If same as "Call", then show spots of this call OR heard by this call. Use * at the end (only) for wildcard searches.

In last

24 Hours ▼

Consider spots only of this recent time period

Sort by

Distance ▼

Field to sort by

☒ Reverse

Check to reverse sort order

☐ Unique

Check to show only unique call/reporter combinations

☒ Exclude Special Callsigns

Excludes calls starting with Q and O, typically used for balloon telemetry

Update

WSPR

User login

Username *

Password *

[Create new account](#)
[Request new password](#)

[Log in](#)

Frequencies

USB dial (MHz): 0.136, 0.4742, 1.8366, 3.5686, 5.2872, 5364.7, 7.0386, 10.1387, 14.0956, 18.1046, 21.0946, 24.9246, 28.1246, 50.293, 70.091, 144.489, 432.300, 1296.500

Navigation

[► Forums](#)

3rd Party Maps and Data

[VK7JJ Site](#)
[KB9AMG Monthly Stats](#)
[WA2ZKD Spot Analysis](#)
[DJ2LS WSPR Spot Heat Map](#)

Who's online

There are currently 83 users online.

- VK7AM
- N7DPM
- DD2DR
- KE0HEW
- GM4SFW
- g3jkf

Spot Database

Specify query parameters

4347 spots:

Timestamp	Call	MHz	SNR	Drift	Grid	Pwr	Reporter	RGrid	km	az	Mode
2021-01-02 04:54	OH2GJL	3.570113	-18	0	HF84	0.2	OH3FR	KP20	11533	22	2
2021-01-02 13:50	OH2GJL	14.097044	-21	0	KP20	0.2	WB8SCG	FM16qv	7082	299	2
2021-01-02 13:00	OH2GJL	14.097184	-23	0	KP20	0.2	N4MXZ	FM17fk	7074	300	2
2021-01-02 13:40	OH2GJL	14.097181	-23	0	KP20	0.2	N4MXZ	FM17fk	7074	300	2
2021-01-02 13:40	OH2GJL	14.097183	-25	0	KP20	0.2	K1RA-PI	FM18cr	6965	301	2
2021-01-02 13:40	OH2GJL	14.097209	-26	0	KP20	0.2	N8RAT	FM19am	6899	302	2
2021-01-02 11:50	OH2GJL	14.097112	-23	0	KP20	0.2	KD2OM	FN12gx	6555	303	2
2021-01-02 12:00	OH2GJL	14.097036	-18	-1	KP20	0.2	KD2OM	FN12gx	6555	303	2
2021-01-02 12:20	OH2GJL	14.097011	-25	0	KP20	0.2	KD2OM	FN12gx	6555	303	2
2021-01-02 12:30	OH2GJL	14.097039	-22	0	KP20	0.2	KD2OM	FN12gx	6555	303	2
2021-01-02 13:40	OH2GJL	14.097182	-28	0	KP20	0.2	KD2OM	FN12gx	6555	303	2
2021-01-02 10:38	OH2GJL	10.140273	-23	0	KP20	0.2	WA2TP	FN30lu	6543	299	2
2021-01-02 11:40	OH2GJL	14.097035	-20	0	KP20	0.2	WA2TP	FN30lu	6543	299	2
2021-01-02 12:00	OH2GJL	14.097039	-27	0	KP20	0.2	WA2TP	FN30lu	6543	299	2
2021-01-02 12:30	OH2GJL	14.097039	-25	0	KP20	0.2	WA2TP	FN30lu	6543	299	2
2021-01-02 13:00	OH2GJL	14.097183	-24	0	KP20	0.2	WA2TP	FN30lu	6543	299	2
2021-01-02 13:30	OH2GJL	14.097137	-26	0	KP20	0.2	WA2TP	FN30lu	6543	299	2
2021-01-02 13:40	OH2GJL	14.097182	-23	0	KP20	0.2	WA2TP	FN30lu	6543	299	2
2021-01-02 14:20	OH2GJL	14.097085	-19	0	KP20	0.2	WA2TP	FN30lu	6543	299	2
2021-01-02 07:18	OH2GJL	10.140220	-28	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 07:48	OH2GJL	10.140281	-30	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 07:50	OH2GJL	14.097185	-15	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 07:58	OH2GJL	10.140258	-26	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 08:00	OH2GJL	14.097184	-12	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 08:20	OH2GJL	14.097180	-18	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 08:30	OH2GJL	14.097050	-10	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 08:40	OH2GJL	14.097150	-11	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 08:50	OH2GJL	14.097185	-14	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 09:00	OH2GJL	14.097059	-7	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 09:10	OH2GJL	14.097149	-17	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 09:40	OH2GJL	14.097025	-19	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 09:50	OH2GJL	14.097175	-21	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 10:40	OH2GJL	14.097182	-22	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2
2021-01-02 11:10	OH2GJL	14.097136	-25	0	KP20	0.2	EA8BFK	IL38bo	4570	237	2

WSPR

Spot Database

Specify query parameters

4347 spots:

Timestamp	Call	MHz	SNR	Drift	Grid	Pwr	Reporter	RGrid	km	az	Mode
2021-01-02 17:08	OH2GJL	3.570073	-26	0	KP20	0.2	ON5KQ	JO10os	1727	241	2
2021-01-02 17:00	OH2GJL	7.040151	-18	0	KP20	0.2	IW2NKE	JN63np	2032	208	2
2021-01-02 16:58	OH2GJL	3.570180	-27	0	KP20	0.2	ON5KQ	JO10os	1727	241	2
2021-01-02 16:50	OH2GJL	7.040135	-28	0	KP20	0.2	F6KFI	JN07dv	2107	240	2
2021-01-02 16:50	OH2GJL	7.040114	-23	0	KP20	0.2	IW2NKE	JN63np	2032	208	2
2021-01-02 16:26	OH2GJL	7.040201	-14	0	KP20	0.2	OE9GHV	JN47wk	1745	221	2
2021-01-02 16:26	OH2GJL	7.040203	-30	1	KP20	0.2	IW2NKE	JN63np	2032	208	2
2021-01-02 16:26	OH2GJL	7.040201	-24	0	KP20	0.2	OE9HLH	JN47um	1743	221	2
2021-01-02 16:26	OH2GJL	7.040188	-28	0	KP20	0.2	HE9GPU	JN47re	1784	221	2
2021-01-02 16:16	OH2GJL	7.040199	-7	0	KP20	0.2	OE9GHV	JN47wk	1745	221	2
2021-01-02 16:16	OH2GJL	7.040199	-21	0	KP20	0.2	OE9HLH	JN47um	1743	221	2
2021-01-02 16:12	OH2GJL	1.838142	-23	0	KP20	0.2	SM4GOJ	JO79nv	547	267	2
2021-01-02 16:06	OH2GJL	7.040071	-28	0	KP20	0.2	DJ6DK	JN48fw	1655	227	2
2021-01-02 16:06	OH2GJL	7.040067	-24	0	KP20	0.2	DK2DB	JN48fw	1655	227	2
2021-01-02 16:06	OH2GJL	7.040066	-11	0	KP20	0.2	DL0LU	JN49cm	1611	228	2
2021-01-02 16:06	OH2GJL	7.040068	-14	0	KP20	0.2	OE3XOE	JN87aq	1533	206	2
2021-01-02 16:06	OH2GJL	7.040069	-30	0	KP20	0.2	DL2IR	JN49ej	1616	228	2
2021-01-02 16:06	OH2GJL	7.040067	-22	0	KP20	0.2	LX1DQ	JN39cq	1681	233	2
2021-01-02 16:06	OH2GJL	7.040067	-13	0	KP20	0.2	OE9GHV	JN47wk	1745	221	2
2021-01-02 16:06	OH2GJL	7.040067	-27	0	KP20	0.2	DK8FT	JN58oe	1625	219	2
2021-01-02 16:06	OH2GJL	7.040067	-25	0	KP20	0.2	OE9HLH	JN47um	1743	221	2
2021-01-02 16:06	OH2GJL	7.040054	-25	0	KP20	0.2	HE9GPU	JN47re	1784	221	2
2021-01-02 16:06	OH2GJL	7.040045	-27	0	KP20	0.2	DK0ABT	JN49pb	1611	225	2
2021-01-02 16:02	OH2GJL	1.838085	-24	0	KP20	0.2	SM4GOJ	JO79nv	547	267	2
2021-01-02 15:58	OH2GJL	10.140246	-9	0	KP20	0.2	OH3FR	KP20	0	0	2
2021-01-02 15:58	OH2GJL	10.140245	-30	0	KP20	0.2	G8NXD	IO70je	2196	252	2
2021-01-02 15:56	OH2GJL	7.040040	-20	0	KP20	0.2	DL0LU	JN49cm	1611	228	2
2021-01-02 15:56	OH2GJL	7.040042	-11	1	KP20	0.2	OE3XOE	JN87aq	1533	206	2
2021-01-02 15:56	OH2GJL	7.040045	-29	0	KP20	0.2	DJ6DK	JN48fw	1655	227	2
2021-01-02 15:56	OH2GJL	7.040041	-17	0	KP20	0.2	OE9GHV	JN47wk	1745	221	2
2021-01-02 15:56	OH2GJL	7.040041	-22	0	KP20	0.2	DK8FT	JN58oe	1625	219	2
2021-01-02 15:56	OH2GJL	7.040041	-24	0	KP20	0.2	OE9HLH	JN47um	1743	221	2
2021-01-02 15:56	OH2GJL	7.040019	-18	0	KP20	0.2	DK0ABT	JN49pb	1611	225	2
2021-01-02 15:56	OH2GJL	7.040039	-22	0	KP20	0.2	ON5KQ	JO10os	1727	241	2

WSPR-decoding

- <https://physics.princeton.edu/pulsar/k1jt/>
- Tällä sivustolla on ohjelmisto signaalin tuottamiseen ja avaamiseen

WSPR

- WSPR decoding in real time

<https://www.youtube.com/watch?v=c6511QfjxEo>

- <https://www.youtube.com/watch?v=LVuiTPZRXo4>

WSPR

Weak Signal Communication Software

WSJT-X, WSJT, MAP65, and WSPR are open-source programs designed for weak-signal digital communication by amateur radio. Normal usage requires a standard SSB transceiver and a personal computer with soundcard, or the equivalent. SDR-style hardware including the SDR-IQ, Perseus, SoftRock, and FUNcube Dongle is supported by MAP65 and WSPR.

SimJT is a utility program that generates simulated signals for test purposes. All of the programs are available free of charge, licensed under the GNU General Public License.

Installation packages for WSJT-X are available for Windows, Linux, and OS X; WSJT and WSPR have Windows and Linux packages, and MAP65 and SimJT are Windows only.

WSPR-linkkejä

<https://www.youtube.com/watch?v=AXmzQP0VwZ4>

<https://www.youtube.com/watch?v=74olwcvWH50>

WSJT Home Page by K1JT

<https://physics.princeton.edu/pulsar/k1jt/>