



# DECODING FREEDV SIGNALS

USING WEBSDR CLOSER TO THE TRANSMITTING STATIONS

# WHY FREEDV?

Metric	 <b>SSB Voice (Analog)</b>	 <b>FreeDV RADE V1</b>
<b>Intelligibility Threshold (SNR)</b>	High 3 dB to +6dB)	Extreme Low -6dB to -8dB
<b>Multipath &amp; Fading</b>	Poor. Severe distortion/drops out.	Excellent. Highly robust
<b>Voice Quality</b>	Excellent (Natural, High Fidelity)	Fair to Poor (Highly Synthetic/Robotic)
<b>Latency (Delay)</b>	Negligible	High Approx 500ms to 1000ms
<b>PAPR</b>	High approx. 10dB to 15dB	Moderate Approx 5dB to 6dB
<b>Transmission Efficiency</b> (Signal	1kHz	2-4kHz

# FREEDV REPORTER

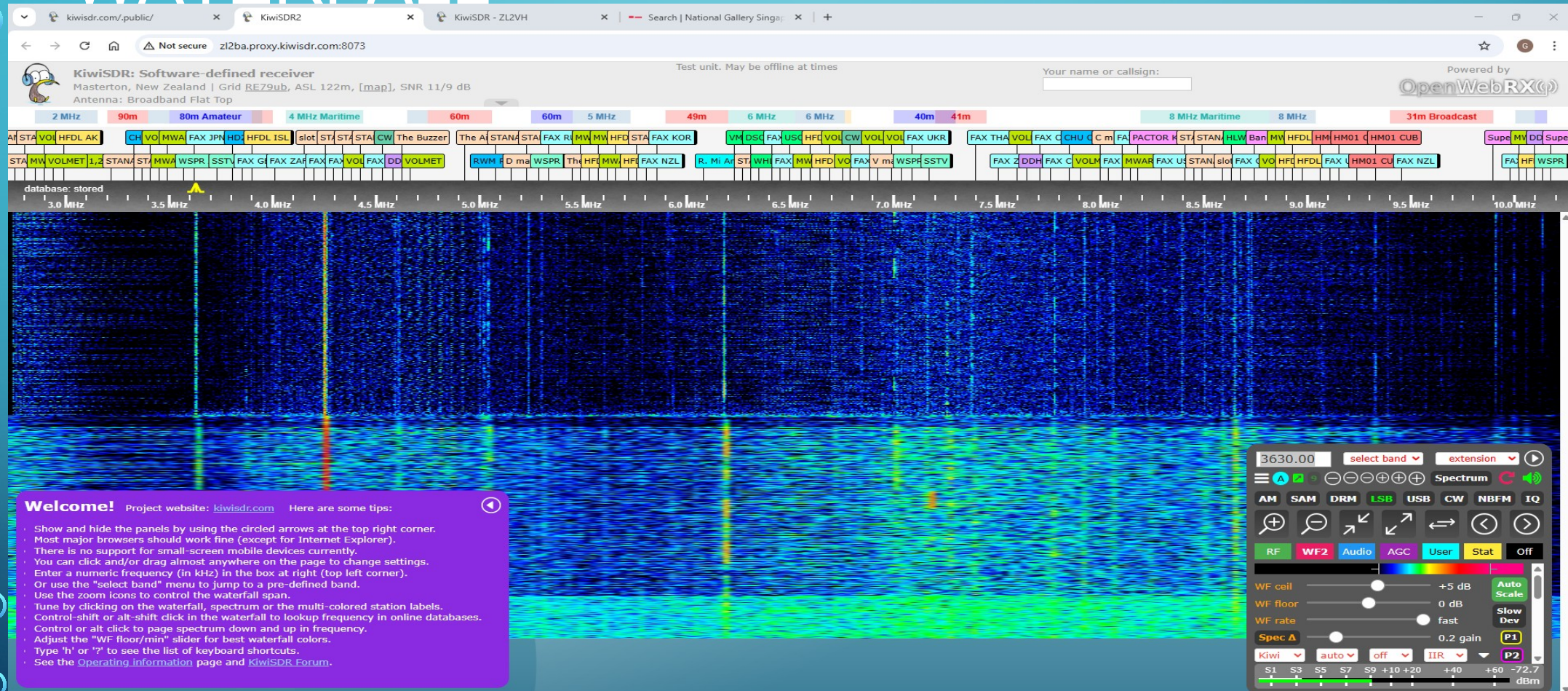
FreeDV Reporter													
Callsign	Locator	km	Hdg	Version	MHz	Mode	Status	Msg	Last TX	RX Call	Mode	SNR	Last Update
G0HNV	IO93cn	10915	325	FreeDV 2.0.2	0.0000	RADEV1	RX	Paul W.Yorkshire					11/17/25 15:39:53
VK3UG	QF22sb	6105	140	FreeDV 2.0.2	0.0000	RADEV1	RX						11/17/25 15:42:43
JF1GHJ	PM95ss	5309	40	FreeDV 2.1.0-dev-f2e0	3.5790	RADEV1	RX	TEST MONITOR テスト...					11/17/25 11:35:05
KE8VSI	EN82mq	15075	7	FreeDV 2.0.2	3.6250	RADEV1	RX		11/17/25 10:18:22				11/17/25 10:18:25
ZL2CA	RE78ir	8519	133	FreeDV 2.0.2	3.6300	RADEV1	TX	Bob Wellington 300 W	11/17/25 15:42:03				11/17/25 15:42:03
ZL4LV	RE54ec	8325	139	FreeDV 2.0.2	3.6300	RADEV1	RX		11/17/25 15:35:14		RADEV1	16.0	11/17/25 15:42:45
ZL4AA	RE54ed	8324	139	FreeDV 2.0.2	3.6300	RADEV1	RX		11/17/25 15:39:27		RADEV1	0.0	11/17/25 15:42:45
JG2FFB	PM85ik	5088	38	FreeDV 2.0.2	3.7050		RX Only				RADEV1	8.0	11/17/25 15:42:45
VK3SRC	QF22nc	6073	140	FreeDV 2.0.2	7.0450	RADEV1	RX	Julie&Joe - CQ SARC...	11/17/25 13:01:21				11/17/25 14:27:14
VK3UH	QF31ik	6229	140	FreeDV 2.0.2	7.0450	RADEV1	RX	Ken. Yarram, Vic.					11/17/25 15:28:25
DL2GRF	JN48cg	10317	318	FreeDV 2.1.0-dev-f2e0	7.0700	RADEV1	RX	deFrank Gutach / blac...	11/17/25 15:17:33				11/17/25 15:31:12
OZ1DTK	JO65gq	9971	326	FreeDV 2.0.2	7.1630	RADEV1	RX						11/17/25 14:26:33
JA1MEI	PM95qk	5275	40	FreeDV 2.0.2	7.1670		RX Only	Kiwi Nagoya http://2...					11/17/25 14:34:35
JA3JYB	PM75wa	5001	38	FreeDV 2.0.2	7.1670	RADEV1	RX	大津市.山本. SDR 1KHz	11/17/25 15:42:27				11/17/25 15:42:45
JE1HST	PM95tv	5324	40	FreeDV 2.0.2	7.1670	RADEV1	RX	さいたま市西区 岩瀬 I			RADEV1	0.0	11/17/25 15:42:43
JA1MEI	PM95qk	5275	40	FreeDV 2.1.0-dev-f2e0	7.1670	RADEV1	RX	Barada, Atsugi/SDR..	11/17/25 15:41:59		RADEV1	16.0	11/17/25 15:42:45
JA3LAK	PM85dk	5060	38	FreeDV 2.0.2	7.1670	RADEV1	RX	Op.Kitamura Nagaha...			RADEV1	18.0	11/17/25 15:42:45
WB7UMA	DM42ki	14768	41	FreeDV 2.0.3-dev-804b	7.1729	RADEV1	RX						11/17/25 02:52:25
G8SEZ	IO92tc	10858	323	FreeDV 2.1.0-dev-f2e0	7.1770	RADEV1	RX	Monitor/report only -...					11/17/25 13:51:42
J11CRM	QM07ab	5433	39	FreeDV 2.0.2	7.1770	RADEV1	RX						11/17/25 15:36:23
SA7BXW	JO76il	9835	326	FreeDV 2.0.2	7.1770	RADEV1	RX	willem opr. on redpi...	11/17/25 15:31:08				11/17/25 15:39:45
JA2TNS	PM84pw	5092	39	FreeDV 2.0.2	7.1820	RADEV1	TX	Aichi Okazaki	11/17/25 15:41:30				11/17/25 15:41:30
JA7JLE	QM08rm	5632	38	FreeDV 2.0.2	7.1820	RADEV1	RX						11/17/25 15:41:47

# TWO STATIONS IN UK IN QSO – WEBSDR IN UK DECODED WITH FREEDV SOFTWARE ON MY PC

- Typically QSOs on 80m. 60m, 40m sometimes 20m
- Stations not too far apart – same country.
- Stated to be using Low Power 10-30W (PEP)-expectedly
- Audio very clear minimal fading etc.
- -3dB SNR is easy copy.
- Commonly see copy reports of -6dB and lower. 🗣️



# FREEDV SIGNAL ON THE WEBSDR WATERFALL



# DECODED SIGNAL

SNR -3dB

