

Shortwave Radio Frequency Guide

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KLINGENFUSS.ORG · 2025 SHORTWAVE FREQUENCY GUIDE

Freq.	Station	Loc.	ITU	Start	End	Lang.	Target	Remarks
9840	Voice of Vietnam	Son Tay	VTN	11.30	12.00	En	As	
9885	Radio Taiwan International	Paochu	TAI	10.00	13.00	Mn	As	
9885	Saudi Radio International	Riyadh	SDA	16.00	17.55	Ur	As	
9885	Madagascar World Voice	Mahajan	MDG	18.00	19.00	Ru	Eu	
9885	Adventist World Radio	Agat	GUM	20.00	21.00	Kr	As	
9885	Radio Cairo	Abis	EGY	22.15	23.30	Po	La	
9890	China National Radio 13	Lingshi	CHN	11.00	15.00	Ui	dom	
9890	China National Radio 13	Lingshi	CHN	15.00	16.00	Mn	dom	
9890	Voice of Korea	Kujang	KRE	15.00	15.55	Ar	Me Af	
9890	China National Radio 13	Lingshi	CHN	16.00	18.05	Ui	dom	
9890	Voice of Korea	Kujang	KRE	16.00	16.55	En	Me Af	
9890	Voice of Korea	Kujang	KRE	17.00	17.55	Ar	Me Af	
9890	Radio Cairo	Abis	EGY	19.00	20.00	Ru	Eu	
9890	China National Radio 13	Lingshi	CHN	23.55	02.00	Ui	dom	
9900	Radio Cairo	Abis	EGY	00.45	02.00	Sp	La	
9900	Radio Free Asia	Dushan	TJK	12.00	14.00	Kr	As	
9900	Trans World Radio	Merizo	GUM	14.15	14.45	Ui	As	Mon-Thu
9900	Trans World Radio	Merizo	GUM	14.45	15.00	Kz	As	
9900	Living Water Ministry	Merizo	GUM	15.00	16.00	Kr	As	
9900	Trans World Radio	Merizo	GUM	15.00	16.00	Kr	As	
9900	Radio Cairo	Abis	EGY	17.00	19.00	Tu	Eu Me	
9900	Radio Taiwan International	Paochu	TAI	22.00	24.00	Mn	As	
9910	Trans World Radio	Merizo	GUM	11.00	11.30	Kr	As	Sun
9910	Trans World Radio	Merizo	GUM	11.00	12.00	Kr	As	Mon-Fri
9910	Trans World Radio	Merizo	GUM	11.30	12.00	Mn	As	Sun
9910	Trans World Radio	Merizo	GUM	12.00	12.15	Mn	As	Mon-Fri
9910	Trans World Radio	Merizo	GUM	12.15	12.45	Mn	As	Sun-Mon
9910	Trans World Radio	Merizo	GUM	12.45	13.00	Dg	As	
9915	Radio Free Asia	Tinang	PHL	00.00	01.00	Lo	As	
9920	Far East Broadcasting Co.	Iba	PHL	12.00	13.30	Ve	As	
9920	Far East Broadcasting Co.	Bocaue	PHL	15.00	15.45	Ru	As	Mon-Sat
9920	Far East Broadcasting Co.	Bocaue	PHL	15.30	15.45	Uk	As	Sun
9920	Far East Broadcasting Co.	Bocaue	PHL	15.45	16.00	Ru	As	Thu-Sun
9920	Sound of Hope	TAI	21.00	17.00	Mn Ca	clan: CHN		
9925	Radio Pilipinas	Tinang	PHL	17.30	19.30	En Pn	Me	+ Tg
9930	Hope Radio	Medorn	PLW	10.55	13.05	En	As	Mon-Sat tests
9930	Hope Radio	Medorn	PLW	11.55	14.05	En	As	Sun - tests
9930	Voice of Martyrs	Tashken	UZB	12.00	12.30	Kr	clan: KRE	
9930	Voice of Martyrs	Tashken	UZB	13.30	14.00	Kr	clan: KRE	
9930	WTWW	Lebano	USA	14.00	24.00	En	Eu	irreg
9940	Radio Thailand	Udon Th	THA	12.30	12.45	Mn	As	
9940	Radio Thailand	Udon Th	THA	12.45	13.00	MI	As	
9940	Radio Thailand	Udon Th	THA	13.00	13.15	Jp	As	
9940	Radio Thailand	Udon Th	THA	13.15	13.30	En	As	
9940	Far East Broadcasting Co.	Bocaue	PHL	14.30	15.00	Ui	As	
9940	Radio Free Asia	Tinang	PHL	21.00	22.00	Kr	As	
9955	RAE Argentina al Mundo	Okeech	USA	00.00	01.00	Po	Na La	Tue-Sat
9955	Alameda Bible Fellowship	Okeech	USA	01.30	02.00	En	Na La	Sat
9955	Alameda Bible Fellowship	Okeech	USA	02.00	02.30	Sp	Na La	Tue
9955	Radio Prague	Okeech	USA	03.00	03.27	Sp	La	
9955	Radio Slovakia International	Okeech	USA	03.30	03.57	Sp	La	
9955	Radio Prague	Okeech	USA	04.00	04.27	En	La	
9955	Radio Prague	Okeech	USA	04.30	04.57	Fr	La	
9955	Overcomer Radio Ministry	Okeech	USA	05.00	10.00	En	La	via WRMI Sa-Su
9955	WRMI	Okeech	USA	11.00	16.00	En Sp	La	
9955	Yeshua Ministries	Okeech	USA	11.00	11.30	En	La	via WRMI Sun
9955	Overcomer Radio Ministry	Okeech	USA	12.00	13.00	En	La	via WRMI
9955	Radio Prague	Okeech	USA	13.00	13.27	En	La	
9955	Radio Slovakia International	Okeech	USA	13.30	14.00	Sp	La	Mon-Fri
9955	Shortwave Radiogram	Okeech	USA	15.30	16.00	En	Na La	Sun
9955	Radio for Peace International	Okeech	USA	22.00	23.00	Fr	La	Wed via WRMI
9955	WRMI	Okeech	USA	22.00	03.00	En Sp	La	

Shortwave radio frequency guide is an essential tool for amateur radio enthusiasts, hobbyists, and professionals alike. This guide will provide a comprehensive overview of shortwave radio frequencies, their uses, advantages, and how to effectively tune into different bands. Understanding shortwave radio can open up a world of communication possibilities, making it an invaluable resource for anyone interested in this fascinating medium.

What is Shortwave Radio?

Shortwave radio refers to radio frequencies that range from 3 to 30 megahertz (MHz). This range allows shortwave signals to be transmitted over long distances, often bouncing off the ionosphere to reach receivers far beyond the transmitter's physical range. The ability to cover vast distances makes shortwave radio a popular choice for international communication, broadcasting, and amateur radio.

How Shortwave Radio Works

Shortwave radio operates using the following principles:

1. **Frequency Range:** Shortwave frequencies are typically divided into bands, each serving different purposes. The spectrum from 3 to 30 MHz is subdivided into various segments.
2. **Propagation:** Shortwave signals can travel beyond the horizon, thanks to the reflection of radio waves off the ionosphere. This allows for signals to be received even thousands of miles away.
3. **Modulation:** Shortwave radio can use different modulation methods, such as amplitude modulation (AM) and single sideband (SSB), which affect the quality and distance of the transmission.

Shortwave Radio Frequencies and Bands

Understanding the various shortwave bands is crucial for effective communication. Here's a breakdown of the primary shortwave frequency bands and their common uses:

1. 3.0 – 4.0 MHz: 80-Meter Band

- Common Use: Primarily used by amateur radio operators.
- Propagation: Best during the night; can be used for local and regional communication.

2. 4.0 – 5.0 MHz: 60-Meter Band

- Common Use: Limited amateur radio use and some government communication.
- Propagation: Effective for short to medium-range communication, especially in the evening.

3. 5.0 – 6.0 MHz: 40-Meter Band

- Common Use: Popular among amateur operators for both local and long-distance communication.
- Propagation: Reliable during the day and night; often used for contests and emergency communications.

4. 6.0 – 7.5 MHz: 30-Meter Band

- Common Use: Exclusively for amateur radio operators; no phone transmissions allowed.
- Propagation: Good for DX (long-distance) communication, especially during solar cycles.

5. 7.5 – 9.0 MHz: 20-Meter Band

- Common Use: Highly active for worldwide communication among amateur radio operators.
- Propagation: Excellent during the day, often utilized for contesting.

6. 9.0 – 11.0 MHz: 15-Meter Band

- Common Use: Popular for DXing and contesting; known for its favorable propagation conditions.
- Propagation: Best during the day; can provide good long-distance communication.

7. 11.0 – 13.0 MHz: 12-Meter Band

- Common Use: Less crowded than other bands but still used for amateur radio.
- Propagation: Good for international communication during peak solar activity.

8. 13.0 – 30.0 MHz: 10-Meter Band

- Common Use: Can be used for local communication and worldwide DXing.
- Propagation: Highly variable; excellent during solar peaks.

Benefits of Shortwave Radio

Shortwave radio offers several advantages that make it a unique and valuable communication medium:

- Global Reach: Shortwave signals can be received across continents, making it ideal for international broadcasting and communication.
- Emergency Communication: In times of disaster or emergency, shortwave radio provides a reliable means of communication when other systems fail.
- Cost-Effective: Setting up a shortwave radio station is often less expensive than satellite or internet-based options.
- Radio Free Speech: Shortwave radio allows for independent broadcasting, enabling voices from around the world to be heard.

- Hobby and Community: Amateur radio fosters community among users, encouraging knowledge sharing, experimentation, and camaraderie.

How to Set Up a Shortwave Radio Station

Setting up a shortwave radio station involves several steps:

1. Choose Your Equipment

- Receiver: Invest in a good quality shortwave radio receiver that can tune into the various bands.
- Antenna: A suitable antenna, such as a dipole or vertical antenna, is crucial for improving reception.
- Power Supply: Ensure you have a reliable power source for your equipment.

2. Find a Suitable Location

- Look for a location with minimal interference from buildings and electronic devices.
- A higher elevation can enhance signal reception.

3. Antenna Installation

- Install your antenna according to the manufacturer's instructions.
- Ensure it is securely mounted and angled for optimal reception.

4. Tune In

- Start by tuning into the lower frequencies, as they are often less crowded.
- Use the built-in frequency guide of your receiver to locate active stations.

5. Keep a Log

- Maintain a log of the frequencies you've monitored, the times, and any interesting transmissions or contacts made.

Common Shortwave Radio Frequencies to Monitor

Here are some frequently used shortwave frequencies that you may consider monitoring:

1. Voice of America: 6.0 - 9.0 MHz
2. BBC World Service: 9.0 - 12.0 MHz
3. Radio Free Europe/Radio Liberty: 7.0 - 9.0 MHz
4. Deutsche Welle: 11.0 - 15.0 MHz
5. Radio China International: 9.0 - 15.0 MHz

Challenges and Considerations

While shortwave radio is a powerful tool for communication, it also comes with challenges:

- Interference: Shortwave signals can be affected by atmospheric conditions and man-made interference.

- Complexity: Understanding propagation, equipment setup, and band conditions can be daunting for beginners.
- Legal Regulations: Familiarize yourself with local regulations regarding shortwave broadcasting and amateur radio operation.

Conclusion

In conclusion, the shortwave radio frequency guide provides an essential foundation for anyone interested in exploring the world of shortwave communication. By understanding the various bands, benefits, and setup processes, you can enjoy the rich diversity that shortwave radio has to offer. Whether you are an amateur radio operator, a hobbyist, or someone looking to stay connected globally, shortwave radio remains a versatile and effective medium for communication.

Frequently Asked Questions

What is a shortwave radio frequency guide?

A shortwave radio frequency guide is a resource that provides information on the frequency ranges used for shortwave radio broadcasting, including details on modulation types, transmission schedules, and the geographical coverage of various stations.

How can I use a shortwave radio frequency guide effectively?

To use a shortwave radio frequency guide effectively, identify your location, check the current propagation conditions, and refer to the guide to find the best frequencies and times to listen to specific stations broadcasting in your area.

What frequencies are commonly used for shortwave broadcasting?

Common shortwave broadcasting frequencies range from 3 MHz to 30 MHz, with specific bands

allocated for international broadcasting, amateur radio, and other services.

Why is shortwave radio still relevant today?

Shortwave radio remains relevant today because it allows for long-distance communication, especially in areas with limited internet access, and it provides a means for international broadcasting that can bypass censorship.

What factors affect shortwave radio reception?

Factors affecting shortwave radio reception include atmospheric conditions, time of day, geographic location, antenna quality, and the power output of the transmitting station.

How can I find shortwave radio stations broadcasting in my language?

You can find shortwave radio stations broadcasting in your language by consulting a frequency guide, checking online databases, or using apps that list stations based on language preferences.

What equipment do I need to listen to shortwave radio?

To listen to shortwave radio, you need a shortwave radio receiver or a software-defined radio (SDR), along with a suitable antenna for better reception, and optionally, a frequency guide to help you tune in.

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