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TROPICAL BANDS FREQUENCY LIST



**Frequency order guide to
broadcasting stations
in the Tropical Bands**

Winter 2024/25

TROPICAL BANDS STATIONS

This is a guide to broadcasting stations currently using the Tropical Bands. It has been created to work with the various DX Guides with the intention of being able to update it quickly as and when required. As with all guides, I am happy to be corrected if you know of anything that doesn't look right. It has to start somewhere and I hope that it will evolve and expand over time with the help of others.

Front page image: Xinjiang, relevant to this guide as the Xinjiang Radio and Television Station uses several frequencies in the Tropical Bands between November and May each year.

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Contents:

- 2-3 Tropical Bands at a glance**
- 4-23 The Tropical Bands in detail**
- 23 Unofficial (pirate) Stations on the Tropical Bands**

Latest update: 19 January 2025

Tropical Bands at a glance

<i>kHz</i>	<i>Station</i>	<i>Location</i>	<i>ITU</i>	<i>kW</i>	<i>Schedule/language/notes</i>
2310	Shortwave Australia	Bendigo Vic.	AUS	LP	English
2315	Station X	Wee Waa NSW	AUS	LP	English
2350	KCBS	Sariwon	KRE	5	2000-1800 in Korean
2368.4	Symban World Radio	Sydney NSW	AUS	LP	Greek
2500	BPM	Pucheng, Shaanxi	CHN	10	0730-0100 - time signals
	WWV	Fort Collins CO	USA	2.5	24h - time signals
	WWVH	Kauai	HWI	10	24h - time signals
3205	KCBS (DRM)	Pyongyang	KRE	100	2000-1800 in Korean
3250	KCBS	Pyongyang	KRE	100	2000-1800 in Korean
3310	Mosoj Chaski Radio	Cochabamba	BOL	10	0900-1300 & 2030-0205 in Quechua & Spanish
3323	Voice of Indonesia	Palangka Raya	INS	20	1000-2230 in various languages
3330	CHU	Ottawa ON	CAN	3	24h - time signals
3480	Voice of the People	Kyonggi-do Koyang	KOR	50	0700-0300 in Korean
	Noise jammer		KRE		Jamming VOP
3900	Hulunbuir R&TV	Hailar	CHN	10	2130-0700 & 0900-1440 in Chinese
3910	Voice of the People	Kyonggi-do Koyang	KOR	50	0700-0300 in Korean
	Noise jammer		KRE		Jamming VOP
3920	KCBS	Hyesan	KRE	5	2000-1800 in Korean
3925	Radio Nikkei 1	Nemuro	J	10	0750-1500 Mo-Fr & 2200-2300 Su-Th in Japanese
3930	Voice of the People	Kyonggi-do Koyang	KOR	50	0700-0300 in Korean
	Noise jammer		KRE		Jamming VOP
3945	Radio Vanuatu	Emten Lagoon, Efate	VTU	10	use of this frequency varies throughout the year
3950	Xinjiang R&TV	Urumqi, Xinjiang	CHN	100	2310-0300 & 1200-1800 in Chinese
3955	Channel 292	Rohrbach	D	10	2100-2000 with various programmes
	KBS World Radio	Woofferton	G	250	2000-2100 in German
3959	KCBS	Kanggye	KRE	5	2000-1800 in Korean
3975	Shortwave Radio	Winsen an der Aller	D	1	1700-0000 with various programmes
3985	CNR-2	Golmud, Qinghai	CHN	100	1200-1605 in Chinese
	Shortwaveservice	Kall-Krekel	D	1	1600-1900 with various programmes
	Echo of Hope	Hwaesong	KOR	100	0700-0300 or 1100-0700 in Korean
	Noise jammer		KRE		Jamming Echo of Hope
3990	Xinjiang R&TV	Urumqi, Xinjiang	CHN	100	2240-0300 & 1200-1800 in Uighur
	Gannan R&TV	Hezuo, Gannan	CHN	10	2225-0120, 0355-0620 & 1025-1345 in Chinese
	Radio Piko	Asikkala	FIN	0.01	Not currently on air
3995	HCJB Deutschland	Weenermoor	D	1.5	24h in German & Russian
4010	Kyrgyz Radio 1	Krasnaya Rachka	KGZ	100	0000-1800 in Kyrgyz
4450	Voice of the People	Kyonggi-do Koyang	KOR	50	0700-0300 in Korean
	Noise jammer		KRE		Jamming VOP
4500	Xinjiang R&TV	Urumqi, Xinjiang	CHN	100	2310-0330 & 1210-1800 in Mongolian
4560	Voice of the People	Kyonggi-do Koyang	KOR	50	0700-0300 in Korean
	Noise jammer		KRE		Jamming VOP

4750	CNR-1	Hailar, Nei Menggu	CHN	10	2000-1730 in Chinese
	Bangladesh Betar	Savar	BGD	100	Currently off air due to transmitter fault
4752v	Radio Huanta 2000	Huanta	PRU	0.5	1100-1325 & 2200-0100 in Spanish & Quechua
4755	Voice of Indonesia	Jakarta-Cimanggis	INS	10	1000-2230 in various languages
4760	TWR Eswatini	Mpangela Ranch	SWZ	50	1420-1435 Sun in Shangaan
4765	Tajik Radio	Dushanbe-Yangiyul	TJK	100	2300-2000 in Tajik & Russian
	Radio Progreso	Bejucal	CUB	50	erratic/irregular in Spanish
4775	Radio Tarma	Tarma	PRU	1.5	1000(1100 Su)-1400 & 2000-0200(2300 Su) Span.
4800	CNR-1	Golmud, Qinghai	CHN	100	2025-1805
4810	Radio Logos	Chazuta	PRU	1	0700-1200 & 2100-0300 in Spanish & indigenous
4820	Xizang R&TV	Lhasa, Tibet	CHN	100	2000-1800 in Chinese
	Radio Senda Cristiana	Cotahuasi	PRU	1	0900-1300 & 2100-0300 in Spanish & Quechua
4835	Shortwave Australia	Bendigo Vic.	AUS	LP	English
4840	WWCR-3	Nashville TN	USA	100	0000-1200 mostly in English
4885	Echo of Hope	Hwaesong	KOR	100	0700-0300 or 1100-0700 in Korean
	Noise jammer		KRE		Jamming Echo of Hope
4895	Mongolian Radio	Ulaanbataar	MNG	10	irregular - 2300-1455 in Mongolian
4900	Voice of the Strait	Fuzhou, Fujian	CHN	50	0845v-1135v in Minnan
4905	Xizang R&TV	Lhasa, Tibet	CHN	100	2050-1805 in Tibetan & English
4920	Xizang R&TV	Lhasa, Tibet	CHN	100	2050-1805 in Tibetan & English
4930	Voice of America	Moepeng Hill	BOT	100	0300-0600, 1600-1630 & 1700-1900 in English etc
4940	Estación 4940	SW Venezuela	VEN		Spanish & indigenous languages
4955	Radio Cultural Amauta	Huanta	PRU	5	1000-1400 & 2100-0000 in Spanish & Quechua
4965	Voice of Hope Africa	Makeni Ranch	ZMB	100	1600-2000 in English
4970	Station X	Wee Waa NSW	AUS	LP	English
4980	Xinjiang R&TV	Urumqi, Xinjiang	CHN	100	2240-0300 & 1200-1800 in Uighur
4985	Rádio Brasil Central	Goiania, Goiás	B	10	24h in Portuguese
4990	Hunan R&TV	Xiangtan, Hunan	CHN	10	2030-0100, 0300-0500 & 0900-1700 in Chinese
4996	RWM	Moscow-Taldom	RUS	8	24h - time signals
5000	BPM	Pucheng, Shaanxi	CHN	10	0730-0100 - time signals
	HLA	Daejeon	KOR	2	24h - time signals
	WWV	Fort Collins CO	USA	2.5	24h - time signals
	WWVH	Kekaha, Kauai	HWI	10	24h - time signals
5010	WRMI-14	Okeechobee FL	USA	100	0000-1500 with various programmes
5020	Solomon Islands BC	Honiara	SLM	10	1900-1200 in Pijin/English, may continue past 1200
5025	Radio Rebelde	Bauta	CUB	100	erratic/irregular in Spanish
	Radio Quillabamba	Quillabamba, Cusco	PRU	5	1000-0200 in spanish & Quechua
5035	Rádio Educação Rural	Coari, Amazonas	B	5	irregular - 1000-2345 in Portuguese
5045	Bay Islands Radio	Macleay Isl., Qld	AUS	LP	English
5050	WRMI-4	Okeechobee FL	USA	100	0000-0500 with various programmes
	Beibu Bay Radio	Nanning, Guangxi	CHN	100	2300-0100 & 0945-1600 in various languages
5060	Xinjiang R&TV	Urumqi, Xinjiang	CHN	100	2310-0300 & 1200-1800 in Chinese
5085	WTWW	Lebanon TN	USA	100	0100-0530 in English
5130	WBCQ	Monticello ME	USA	50	0000-0400 Sun/Mon
	Hit Shortwave	Krasnaya Rachka	KGZ	15	1455v-1800v Mon-Fri (1st to 15th of each month)



The Tropical Bands in detail

All times UTC unless otherwise stated

2310 kHz

- **Shortwave Australia (Australia)**

Shortwave Australia is operated by David Stuart in Victoria. It also operates on 4835 kHz.

Transmitter site: Bendigo, Victoria, Australia (low power)

Schedule: Sunset in Victoria to approximately 0200 local (as of 15 September 2024)

2325 kHz

- **Radio 567 (Australia)**

Radio 567 X is operated by Peter Tate in New South Wales. It also operates on 4970 kHz.

Transmitter site: Wee Waa, New South Wales, Australia (low power)

Schedule: to be confirmed

2350 kHz

- **Korean Central Broadcasting Station (North Korea)**

The Korean Central Broadcasting Station (KCBS), (Chosun Chungang Pangsong), is the primary domestic radio network in the DPRK. The station operates from studios at Jeonseung-dong in the Moranbong district of Pyongyang.

Transmitter site: Sariwon, North Korea (5 kW)

Schedule: 2000-1800 in Korean

KCBS is also heard on 3250, 3920, 3959, 6100 and 11680 kHz, as well as in DRM on 3205 and 6140 kHz.

2368.4 kHz

- **Symban World Radio (Australia)**

Symban World Radio is based in Sydney, New South Wales, and established in 1997 to serve the Greek community of the city. It also operates on MW 1692 kHz and FM.

Transmitter site: Leppington, Sydney, New South Wales, Australia (0.5 kW)

Schedule: irregular operation in Greek



2500 kHz

- **BPM (China)**

BPM is operated by the Chinese Academy of Sciences, broadcasting from CAS's National Time Service Center in Pucheng County, Shaanxi, roughly 70 km northeast of Lintong, along with NTSC's long-wave time signal BPL on 100 kHz. BPM is broadcast at 2.5, 5.0, 10.0, and 15.0 MHz, the same frequencies as WWV and WWVH.

Transmitter site: Pucheng County, Shaanxi, China (10 kW)

Schedule: 0730-0100 with time pips and announcements in Chinese

Website: <http://english.ntsc.cas.cn/au/>

- **WWV (USA)**

Transmitter site: Fort Collins, Colorado, USA (2.5 kW)

WWV is operated by the U.S. National Institute of Standards and Technology (NIST), under the oversight of its Time and Frequency Division, which is part of NIST's Physical Measurement Laboratory based in Gaithersburg, Maryland.

Schedule: 24 hours with time pips and announcements in English

Website: <https://www.nist.gov/pml/time-and-frequency-division/time-distribution/radio-station-wwv>

- **WWVH (Hawaii)**

WWVH is the Pacific sister station to WWV, and has a similar broadcast format. Like WWV, WWVH's main function is the dissemination of the official U.S. Government time and frequency standard.

Transmitter site: Barking Sands Missile Range, Kekaha, Kauai, Hawaii (10 kW)

Schedule: 24 hours with time pips and announcements in English

Website: <https://www.nist.gov/pml/time-and-frequency-division/time-distribution/radio-station-wwvh>

3205 kHz

- **DRM - Korean Central Broadcasting Station (North Korea)**

The Korean Central Broadcasting Station (KCBS), (Chosun Chungang Pangsong), is the primary domestic radio network in the DPRK. The station operates from studios at Jeonseung-dong in the Moranbong district of Pyongyang.

Transmitter site: Pyongyang, North Korea (100 kW)

Schedule: 2000-1800 in Korean

KCBS is also heard on 2350, 3250, 3920, 3959, 6100 and 11680 kHz, as well as in DRM on 6140 kHz.

3250 kHz

- **Korean Central Broadcasting Station (North Korea)**

The Korean Central Broadcasting Station (KCBS), (Chosun Chungang Pangsong), is the primary domestic radio network in the DPRK. The station operates from studios at Jeonseung-dong in the Moranbong district of Pyongyang.

Transmitter site: Pyongyang, North Korea (100 kW)

Schedule: 2000-1800 in Korean

KCBS is also heard on 2350, 3920, 3959, 6100 and 11680 kHz, as well as in DRM on 3205 and 6140 kHz.

3310 kHz

- **Radio Mosoj Chaski (Bolivia)**

Mosoj Chaski is a ministry that communicates the Word of God in the Quechua language for the growth and maturity of the Quechua people and the Quechua Church. Their mission is to use different forms of media to communicate the Word of God, providing opportunities for discipleship and leadership development which will prepare the Quechua believers to live out their faith in their cultural context.

Transmitter site: Cochabamba, Cochabamba Department, Cerado Province, Bolivia (10 kW)

Schedule: 0900-1300 (Morning) and 2030-0205 (Evening) in Quechua and Spanish

Facebook: <https://www.facebook.com/123bfhr>



3323 kHz

• Voice of Indonesia (Indonesia)

Voice of Indonesia is the External Service of Radio Republik Indonesia.

Transmitter site: Palangka Raya, Central Kalimantan, Indonesia (20 kW)

Schedule: 1000-2230 as follows:

1000-1100 in English

1100-1200 in Chinese

1200-1300 in Japanese

1300-1400 in English

1400-1500 in Indonesian

1500-1600 in Chinese

1600-1700 in Arabic

1700-1800 in Spanish

1800-1900 in German

1900-2000 in Dutch

2000-2100 in French

2100-2200 in English

2200-2230 in Japanese

As well as 3323 kHz, VOI also broadcasts on 4755 kHz and both are heard particularly well in South-East Asia

Website: <https://voinews.id/>

3330 kHz

• CHU (Canada)

CHU is the call sign of a shortwave time signal radio station operated by the Institute for National Measurement Standards of the National Research Council. CHU's signal is used for continuous dissemination of official Canadian government time signals, derived from atomic clocks.

Transmitter site: Ottawa, Ontario, Canada (3 kW)

Schedule: 24 hours with time pips and announcements in English

Website: <https://nrc.canada.ca/en/certifications-evaluations-standards/canadas-official-time/nrc-shortwave-station-broadcasts-chu>

3480 kHz

• Voice of the People (South Korea)

Voice of the People is operated by the National Intelligence Service, the chief intelligence service of South Korea, and broadcasts to listeners in North Korea.

Transmitter site: Kyonggi-do Koyang, South Korea (50 kW)

Schedule: 0700-0300 in Korean

Other frequencies used by Voice of the People are 3910 3930 4450 4560 6520 6600. Broadcasts are often accompanied by noise jamming from North Korea

NIS website: <https://eng.nis.go.kr/>

3900 kHz

• Hulunbuir Radio and TV Station (China)

Hulunbuir Radio and TV Station is the provincial broadcasting station in Hulunbuir. Hulunbuir is a prefecture-level city in northeastern Inner Mongolia, China. Its administrative center is located at Hailar District, its largest urban area. Major scenic features are the high steppes of the Hulun Buir grasslands, the Hulun and Buir lakes (the latter partially in Mongolia), and the Khingan range. Hulunbuir borders Russia to the north and west, Mongolia to the south and west, Heilongjiang province to the east and Hinggan League to the direct south. Hulunbuir is a linguistically diverse area: next to Mandarin Chinese, Mongolian dialects such as Khorchin and Buryat, the Mongolic language Daur, and some Tungusic languages, including Oroqen and Solon, are spoken there.

Transmitter site: Hailar, Hulunbuir, China (10 kW)

Schedule: 2130-0700 (Morning/Daytime) and 0900-1440 (Evening) in Chinese

3910 kHz

- **Voice of the People (South Korea)**

Voice of the People is operated by the National Intelligence Service, the chief intelligence service of South Korea, and broadcasts to listeners in North Korea.

Transmitter site: Kyonggi-do Koyang, South Korea (50 kW)

Schedule: 0700-0300 in Korean

Other frequencies used by Voice of the People are 3480 3930 4450 4560 6520 6600. Broadcasts are often accompanied by noise jamming from North Korea

NIS website: <https://eng.nis.go.kr/>

3920 kHz

- **Korean Central Broadcasting Station (North Korea)**

The Korean Central Broadcasting Station (KCBS), (Chosun Chungang Pangsong), is the primary domestic radio network in the DPRK. The station operates from studios at Jeonseung-dong in the Moranbong district of Pyongyang.

Transmitter site: Hyesan, North Korea (5 kW)

Schedule: 2000-1800 in Korean

KCBS is also heard on 2350, 3250, 3959, 6100 and 11680 kHz, as well as in DRM on 3205 and 6140 kHz.

3925 kHz

- **Radio Nikkei 1 (Japan)**

Radio Nikkei is Japan's nationwide shortwave commercial radio station. It started broadcast on 27 August 1954. It is operated by Nikkei Radio Broadcasting Corporation.

Transmitter site: Nemuro, Japan (10 kW)

Schedule: 0750-1500 Monday-Friday and 2200-2300 Sunday-Thursday in Japanese

Website: <https://www.radionikkei.jp/>

3930 kHz

- **Voice of the People (South Korea)**

Voice of the People is operated by the National Intelligence Service, the chief intelligence service of South Korea, and broadcasts to listeners in North Korea.

Transmitter site: Kyonggi-do Koyang, South Korea (50 kW)

Schedule: 0700-0300 in Korean

Other frequencies used by Voice of the People are 3480 3910 4450 4560 6520 6600. Broadcasts are often accompanied by noise jamming from North Korea

NIS website: <https://eng.nis.go.kr/>

3945 kHz

- **Radio Vanuatu (Vanuatu)**

Radio Vanuatu is operated by the Vanuatu Broadcasting and Television Corporation

Transmitter site: Emten Lagoon, Efate, Vanuatu (10 kW)

Radio Vanuatu changes its frequency schedule throughout the year.

Schedule: 0659-1100v in Bislama, with content also in English in French

The full schedule for Radio Vanuatu at the time of editing is:

1830v-1958 on 7260 kHz

1959-0658 on 9960 kHz

0659-1100v on 3945 kHz

Website: <https://vbtv.vu/radio/>



3950 kHz

• Xinjiang Radio and TV Station (China)

Xinjiang Radio and TV Station is a radio and television station in Xinjiang, China that was formed in 2018 when the Xinjiang People's Broadcasting Station merged with Xinjiang Television. Xinjiang, officially Xinjiang Uigur Autonomous Region, is an autonomous region of China, located in the northwest of the country close to Central Asia. Xinjiang borders the countries of Mongolia, Russia, Kazakhstan, Kyrgyzstan, Tajikistan, Afghanistan, Pakistan and India. The Aksai Chin region, administered by China, is claimed by India. Xinjiang also borders the Tibet Autonomous Region and the provinces of Gansu and Qinghai.

Transmitter site: Urumqi, Xinjiang, China (100 kW)

Schedule: 2310-0300 (Morning) and 1200-1800 (Evening) in Chinese - November to May only

The full schedule for XRTV Chinese service between November-May is:

2310-0300 on 3950 5060 5960 & 7310 kHz

0300-1200 on 5960 7260 9600 & 11770 kHz

1200-1800 on 3950 5060 5960 & 7310 kHz

3955 kHz

• Channel 292 (Germany)

Radio Channel 292 was initially launched as Radio 6150 in 2012. It was renamed in 2013. It broadcasts on 3955, 6070 and 9670 kHz from transmitters which are licensed to Intermedicom GmbH at Rohrbach, Waal (the exception is at 0900-1000 Sundays on 6070 kHz when Radio Channel 292 hires airtime on a 100 kW transmitter at Moosbrunn, Austria, for the Radio DARC programme. It may also hire airtime on other transmitters for use on any of its registered frequencies

Transmitter site: Rohrbach Waal, Germany (10 kW)

Schedule: 2100-2000 (not on air 2000-2100 due to KBS, see below)

Please see <https://www.channel292.de/schedule-3955-khz/> for the latest programme schedule for 3955 kHz.

Website: <https://www.channel292.de/>

• KBS World Radio (UK relay)

KBS World Radio is the official international broadcasting station of the Korean Broadcasting System.

Transmitter site: Woofferton, UK (250 kW)

Schedule: 2000-2100 in German to Europe

Website (for German service): <https://world.kbs.co.kr/service/index.htm?lang=g>

3959 kHz

• Korean Central Broadcasting Station (North Korea)

The Korean Central Broadcasting Station (KCBS), (Chosun Chungang Pangsong), is the primary domestic radio network in the DPRK. The station operates from studios at Jeonseung-dong in the Moranbong district of Pyongyang.

Transmitter site: Kanggye, North Korea (5 kW)

Schedule: 2000-1800 in Korean

KCBS is also heard on 2350, 3250, 3930, 6100 and 11680 kHz, as well as in DRM on 3205 and 6140 kHz.

3975 kHz

• Shortwave Radio (Germany)

Shortwave Radio is run by a group of shortwave enthusiasts on a non-political and non-commercial basis, in accordance with a licence issued by the German Federal Net Agency.

Transmitter site: Winsen an der Aller, Celle, Lower Saxony, Germany (1 kW)

Schedule: 1700-0000 with various programmes

Shortwave Radio also operates on 6160 kHz at 0700-2200

Website: <https://www.shortwaveradio.de/>

3985 kHz

• **China National Radio 2 (China)**

CNR-2 "China Business Radio" is a nationwide service of mainly business news and reports.

Transmitter site: Golmud, Qinghai Province, China (100 kW)

Golmud, also known by various other romanizations, is a county-level city in the Haixi Mongol and Tibetan Autonomous Prefecture of Qinghai Province, China. It is now the second-largest city in Qinghai and the third largest in the Tibetan Plateau (after Xining and Lhasa).

Schedule: 1200-1605 in Chinese

CNR website: <http://www.cnr.cn/>

• **Shortwaveservice (Germany)**

The Shortwave Service offers a complete service package for the broadcasting of programmes. From obtaining the necessary licenses to broadcast programmes, they say they are "your reliable partner - unbureaucratic and cost-effective". They offer shortwave broadcasting capacities for Europe via their own facilities in Germany, but are also happy to implement broadcasting needs worldwide together with their partners. The shortwave transmitters at Kall are owned and operated by Shortwaveservice and are located on the site of a former utility radio station of the German police force. The transmitters operate on 3985, 6005 and 6085 kHz.

Transmitter site: Kall-Krekel, Germany (1 kW)

Schedule: 1600-1900 with various programmes

Website: <https://www.shortwaveservice.com/>

• **Echo of Hope (South Korea)**

Echo of Hope is operated by the National Intelligence Service, the chief intelligence service of South Korea, and broadcasts to listeners in North Korea.

Transmitter site: Hwaseong, South Korea (100 kW)

Schedule: 0700-0300 or 1100-0700 in Korean

The current schedule for Echo of Hope is:

<i>Time/UTC</i>	<i>Language</i>	<i>kHz</i>	<i>Transmitter site</i>	<i>kW</i>
0300-0700 or 0700-1100	Korean	4885	Seoul, South Korea	10
		6250	Seoul, South Korea	10
		7720	Seoul, South Korea	10
0700-1100 or 0300-0700	Korean	3985	Hwaseong, South Korea	100
		5995	Hwaseong, South Korea	100
		6350	Hwaseong, South Korea	100
1100-0300	Korean	3985	Hwaseong, South Korea	100
		4885	Seoul, South Korea	10
		5995	Hwaseong, South Korea	100
		6250	Seoul, South Korea	10
		6350	Hwaseong, South Korea	100
		7720	Seoul, South Korea	10

Note: transmitters may switch to adjacent freqs (+/- 5 kHz) to avoid North Korean jamming; the frequencies used at 0300-0700 and 0700-1100 are reversed on the first Monday of each month.

NIS website: <https://eng.nis.go.kr/>

3990 kHz

• **Xinjiang Radio and TV Station (China)**

Xinjiang Radio and TV Station is a radio and television station in Xinjiang, China that was formed in 2018 when the Xinjiang People's Broadcasting Station merged with Xinjiang Television. Xinjiang, officially Xinjiang Uigur Autonomous Region, is an autonomous region of China, located in the northwest of the country close to Central Asia. Xinjiang borders the countries of Mongolia, Russia, Kazakhstan, Kyrgyzstan, Tajikistan, Afghanistan, Pakistan and India. The Aksai Chin region, administered by China, is claimed by India. Xinjiang also borders Tibet, Gansu and Qinghai.

Transmitter site: Urumqi, Xinjiang, China (100 kW)

Schedule: 2240-0300 (Morning) & 1200-1800 (Evening) in Uighur - November to May only

The full schedule for XRTV Uighur service between November-May is:

2240-0300 on 3990 4980 6120 & 7205 kHz

0300-1200 on 7275 9560 11885 & 13670 kHz

1200-1800 on 3990 4980 6120 & 7205 kHz

- **Gannan Radio and TV Station (China)**

Gannan Radio and TV Station is the provincial broadcaster in Gannan Tibetan Autonomous Prefecture, an autonomous prefecture in Southern Gansu Province in Western China. The largest ethnic group in Gannan is Tibetan, followed by the Han.

Transmitter site: Hezuo, Gannan, China (10 kW)

Schedule: 2225-0120 (Morning), 0355-0620 (Daytime) and 1025-1345 (Evening) in Chinese and Tibetan and may include relays of CNR-1 in Chinese and CNR-11 in Tibetan at certain times.

Gannan Radio and TV Station also operates in parallel on 5970 kHz (50 kW)

- **Radio Piko (Finland)**

Radio Piko is a hobby radio station that broadcasts music, old time radio shows, and interviews. It was licensed to operate on shortwave at weekends during the period 25 May to 11 August 2024. As well as 3990 kHz, it was also licensed for 5980 and 9770 kHz.

Transmitter site: Asikkala, Päijänne Tavastia, Southern Finland (0.01 kW)

Not currently on air but expected to return with a new license soon

Website: <https://radiopiko.fi/>

Radio Piko

3995 kHz

- **Radio HCJB Deutschland (Germany)**

The German department of HCJB in Quito, Ecuador, was founded in 1953 and began producing programmes for German-speakers in Europe and South America. More recently, the Radio HCJB eV working group in Germany has been campaigning for more Christian programmes on the radio and to achieve this a range of programmes for Central Europe has been expanded step by step since 2012, and is now broadcast around the clock.

Transmitter site: Weenermoor, Germany (1.5 kW)

Schedule: 24 hours:

0000-0300 in German

0300-0400 in Russian

0400-2200 in German

2200-0000 in Russian (Segenswelle)

Radio HCJB Deutschland operates the same schedule on 3995 and 5920 kHz, with a separate 24 hour service on 7365 kHz in Russian called "Segenswelle".

Website: agradiohcjb.wixsite.com/hcjb-deutschland

4010 kHz

- **Kyrgyz Radio 1 - Birinchi Radio (Kyrgyzstan)**

The Public Broadcasting Corporation of the Kyrgyz Republic (KTRK) is the national broadcasting organisation of the Kyrgyzstan Republic. The First Programme is called Birinchi Radio, broadcasting news, information and sports.

Transmitter site: Bishkek, Kyrgyzstan (100 kW)

Schedule: 0000-1800 in Kyrgyz (and possibly other languages at certain times)

Website: <https://ktrk.kg/>

4450 kHz

- **Voice of the People (South Korea)**

Voice of the People is operated by the National Intelligence Service, the chief intelligence service of South Korea, and broadcasts to listeners in North Korea.

Transmitter site: Kyonggi-do Koyang, South Korea (50 kW)

Schedule: 0700-0300 in Korean

Other frequencies used by Voice of the People are 3480 3910 3930 4560 6520 6600. Broadcasts are often accompanied by noise jamming from North Korea

NIS website: <https://eng.nis.go.kr/>

4500 kHz

• Xinjiang Radio and TV Station (China)

Xinjiang Radio and TV Station is a radio and television station in Xinjiang, China that was formed in 2018 when the Xinjiang People's Broadcasting Station merged with Xinjiang Television. Xinjiang, officially Xinjiang Uigur Autonomous Region, is an autonomous region of China, located in the northwest of the country close to Central Asia. Xinjiang borders the countries of Mongolia, Russia, Kazakhstan, Kyrgyzstan, Tajikistan, Afghanistan, Pakistan and India. The Aksai Chin region, administered by China, is claimed by India. Xinjiang also borders the Tibet Autonomous Region and the provinces of Gansu and Qinghai.

Transmitter site: Urumqi, Xinjiang, China (100 kW)

Schedule: 2310-0330 (Morning) and 1210-1800 (Evening) in Mongolian - November to May only

The full schedule for XRTV Mongolian service between November-May is:

2310-0330 on 4500 & 6190 kHz

0510-1000 on 7230 & 9510 kHz

1210-1800 on 4500 & 6190 kHz

4560 kHz

• Voice of the People (South Korea)

Voice of the People is operated by the National Intelligence Service, the chief intelligence service of South Korea, and broadcasts to listeners in North Korea.

Transmitter site: Kyonggi-do Koyang, South Korea (50 kW)

Schedule: 0700-0300 in Korean

Other frequencies used by Voice of the People are 3480 3910 3930 4450 6520 6600. Broadcasts are often accompanied by noise jamming from North Korea

NIS website: <https://eng.nis.go.kr/>

4750 kHz

• Bangladesh Betar (Bangladesh)

Bangladesh Betar is the state-owned radio broadcaster of Bangladesh.

Transmitter site: Savar, Bangladesh (100 kW)

Not currently on air on 4750 kHz due to a transmitter fault.

Bangladesh Betar's External Service had a new Thomson 250 kW shortwave transmitter and rotatable antenna system installed at Khabirpur in 2012. However, since March 2019 the external service has not been heard on any of its usual shortwave frequencies from Khabirpur and has been using the Home Service transmitter at Savar on 4750 kHz instead (with a non-directional aerial). As a result the external service was heard best in areas surrounding Bangladesh (i.e. South and South-East Asia) rather than other parts of the world it may announce in its broadcasts.

Bangladesh Betar off-air: Message from Indian DX Club International. At present the short wave transmitter of Bangladesh Betar with frequency 4750 kHz is not working due to the failure of PA Valve at the final stage of the transmitter. Necessary steps are taken by the concerned section to procure the PA Valve to make the transmitter active/workable. (via Jose Jacob, 31 July 2024)

The schedule on 4750 kHz (100 kW) had been:

1230-1300 in English 1630-1730 in Bengali

1315-1345 in Nepali 1745-1900 in English (including the segment for "Voice of Islam")

1515-1545 in Hindi 1915-2000 in Bengali

1600-1630 in Arabic

Bangladesh Betar website: <http://betar.gov.bd/>

• China National Radio 1 (China)

CNR-1 "Voice of China" is the flagship radio station of CNR. Its programmes consist of mainly news and commentaries.

Transmitter site: Hailar, Nei Menggu (Inner Mongolia), China (10 kW)

Hailar District, formerly a county-level city, is an urban district that serves as the seat of the prefecture-level city Hulunbuir in northeastern Inner Mongolia, China. Hulunbuir, due to its massive size, is a city in administrative terms only, being mainly grassland and rural. Long known as the "Pearl of the Grasslands", Hailar acts as a gateway between China and Russia.

Schedule: 2000-1730 in Chinese

CNR website: <http://www.cnr.cn/>

4752v kHz

• Radio Huanta 2000 (Peru)

The website of Radio Huanta 2000 (which says account currently suspended) said "We broadcast from the city of Huanta, La Esmeralda de los Andes, a beautiful city nestled in the Ayacucho Andes. Our programming is news-oriented, with varied music and contemporary adult programming. We are known for spreading culture in our special weekend programs and we provide advertising services and sell spaces for institutional programs".

Transmitter site: Huanta, Peru (0.5 kW)

Schedule: 1100-1325 and 2200-0100 in Spanish and Quechua

Facebook: <https://www.facebook.com/RadioHuanta2000/>

4755 kHz

• Voice of Indonesia (Indonesia)

Voice of Indonesia is the External Service of Radio Republik Indonesia.

Transmitter site: Jakarta-Cimanggis, Indonesia (10 kW)

Schedule: 1000-2230 as follows:

1000-1100 in English

1100-1200 in Chinese

1200-1300 in Japanese

1300-1400 in English

1400-1500 in Indonesian

1500-1600 in Chinese

1600-1700 in Arabic

1700-1800 in Spanish

1800-1900 in German

1900-2000 in Dutch

2000-2100 in French

2100-2200 in English

2200-2230 in Japanese

As well as 4755 kHz, VOI also broadcasts on 3323 kHz and both are heard particularly well in South-East Asia.

Website: <https://voinews.id/>

4760 kHz

• TWR Africa (Eswatini)

TWR Africa is a non-profit Christian radio station that broadcasts to the entirety of the African continent. The TWR Africa transmitting station in Eswatini "broadcasts biblical programming to the East and Southern African people, providing invaluable teaching and encouragement to the region".

Transmitter site: Mpangela Ranch, near Manzini, Eswatini (50 kW)

Schedule: 1420-1435 Sunday in Shangaan to Southern Mozambique

TWR website for East and Southern Africa: <https://twr.org/east-southern-africa>

TWR online schedule: <https://twr.org/schedule/>

4765 kHz

• Tajik Radio (Tajikistan)

Tajik Radio, the state-operated radio broadcaster, operates four channels, with its flagship station, Tajik Radio, being the most prominent. Tajik Radio is operated by the Committee for Television and Radio Broadcasting. This entity functions both as a broadcast media regulator, licensing independent radio stations, and as a broadcast media provider, managing the state radio broadcast company.

Transmitter site: Dushanbe-Yangiyul, Tajikistan (100 kW)

Schedule: 2300-2000 in Tajik and Russian

Radio Tajikistan website: <https://radiotoj.tj/>

Committee for Television and Radio Broadcasting website: <https://ktr.tj/>

- **Radio Progreso (Cuba)**

Radio Progreso is a Cuban Spanish language radio station. Founded on 15 December 1929, it has provided musical and other cultural programmes ever since. Radio Progreso airs music and cultural programmes throughout Cuba. On shortwave it irregularly uses a 50 kW transmitter at Bejucal that provides reception throughout the Caribbean and beyond. The slogan of Radio Progreso is "La Onda de la Alegría".

Transmitter site: Bejucal, Cuba (50 kW)

Schedule: irregularly heard on 4765 kHz in Spanish

Radio Progreso website: <https://www.radioprogreso.icrt.cu/>

4775 kHz

- **Radio Tarma (Peru)**

Radio Tarma was founded in 1958. It operates on 1510 and 4775v kHz, as well as FM. It broadcasts simultaneous programmes on mediumwave and shortwave.

Transmitter site: Tarma, Tarma Province, Junín Region (1.5 kW)

Schedule:

Monday-Saturday: 1000-1400 (Morning) and 2000-0200 (Afternoon/Evening) in Spanish

Sunday: 1100-1400 (Morning) and 2000-2300 (Afternoon) in Spanish

Website: <https://www.radiotarma.com/>

Facebook: <https://www.facebook.com/p/RADIO-TARMA-100086707938982/>

4800 kHz

- **China National Radio 1 (China)**

CNR-1 "Voice of China" is the flagship radio station of CNR. Its programmes consist of mainly news and commentaries.

Transmitter site: Golmud, Qinghai Province, China (100 kW)

Golmud, the location of the transmitter, is a county-level city in the Haixi Mongol and Tibetan Autonomous Prefecture of Qinghai Province. It is now the second-largest city in Qinghai and the third largest in the Tibetan Plateau (after Xining and Lhasa). The population in 2020 was 221,863.

Schedule: 2025-1805 in Chinese

CNR website: <http://www.cnr.cn/>

4810 kHz

- **Radio Logos (Peru)**

Radio Logos is located in Chazuta District, one of fourteen districts of the province San Martín, located in north central Peru on the edge of the Amazon Basin. The station began as a ministry in 2012, under the vision of expanding the gospel at the initiative of the central evangelical church of Chazuta, which belongs to the association of bilingual evangelical churches (AIEB). They are also affiliated with the Fraternity of Associations of Native Evangelical Churches of the Peruvian Amazon (FAIENAP).

Transmitter site: Chazuta, San Martin Province, Peru (1 kW)

Schedule: 0700-1200 (Morning) and 2100-0300 (Evening) in Spanish and indigenous languages

Radio Logos website: <https://radiologoschazuta.com/>



4820 kHz

• Xizang Radio and TV Station (China)

The Xizang Radio and TV Station is a broadcast network headquartered in Lhasa, Xizang (Tibet). It has two channels on shortwave, one in Chinese and another in Tibetan. The Xizang Autonomous Region, often shortened to Tibet or Xizang, is an autonomous region of China and is part of Southwestern China. It was formally established in 1965 to replace the Tibet Area, the former administrative division of the PRC established after the annexation of Tibet. The current borders were generally established in the 18th century and include about half of historical Tibet. The Tibet Autonomous Region spans over 1,200,000 km² (460,000 sq mi), and is the second-largest province-level division of China by area, after Xinjiang. Due to its harsh and rugged terrain, it is sparsely populated at just over 3.6 million people with a population density of 3 inhabitants per square kilometre (7.8/sq mi), and is the least-populous autonomous region or province in China.

Transmitter site: Lhasa, Tibet (100 kW)

Schedule: 2000-1800 in Chinese

CNR-1 is relayed at 2230-2300, 0030-0100 and 1030-1100.

Silent period for maintenance: Tuesdays 0600-1000

Note: The full schedule for Xizang Radio and TV Station in Chinese is:

2000-0300 on 4820 5935 6050 7240 & 7450 kHz

0300-0900 on 4820 5935 6050 11860 & 11950 kHz

0900-1800 on 4820 5935 6050 7240 & 7450 kHz

Xizang Radio and TV Station website: <http://www.vtibet.cn/> (see dropdown box for content in Chinese, Tibetan or English)

• Radio Senda Cristiana (Peru)

Radio Senda Cristiana was first heard by Auguste Galaz on 4820 kHz on 17 March 2023. Ron Howard later made an enquiry and received an email from Brad Shaw of Radio Senda Cristiana, who replied: "Thank you for your kind words. Great to know you were able to hear us. It must be working well. We are broadcasting with 1k watts, but we are thinking of only 4-10pm [2100-0300 UTC] and 4-8am [0900-1300 UTC] Peru time for the next year or so. Brad Shaw, Peru".

Transmitter site: Cotahuasi, La Unión Province, Arequipa Region (1 kW)

Schedule: 0900-1300 and 2100-0300 in Spanish and Quechua

Additional information from Ron Howard in a post to the World of Radio IO Group on 21 September 2024: "Originally (2008), Radio Senda Cristiana (The Christian Way Radio), was only on the air via FM (99.9). In 2023, the Cotahuasi Ministry Center Project started SW on 4820, by first relaying Radio Integridad (Trujillo, La Libertad, Peru) and later relayed Radio RRI (Lima, Peru). It was only later they started airing their own programs and finally giving the Radio Senda Cristiana ID"

Quechua Missions website: <https://quechuamissions.com/>



4835 kHz

• Shortwave Australia (Australia)

Shortwave Australia is operated by David Stuart in Victoria.

Transmitter site: Bendigo, Victoria, Australia (low power)

Schedule: 24 hours

Note: Shortwave Australia also operates on 2310 kHz.

4840 kHz

• WWCR-3 (USA)

WWCR is located in Nashville, Tennessee. WWCR mainly leases out its four transmitters to religious organisations and speakers, as well as serving as the shortwave home of Genesis Communications Network's programmes.

Transmitter site: Nashville, Tennessee, USA (100 kW)

Schedule: 0000-1200 in English

The full schedule for WWCR-3 is:

0000-1200 on 4840 kHz to North America, Europe

1200-0000 on 13845 kHz to North America, Europe

Website: <https://www.wwcr.com/>

4885 kHz

• Echo of Hope (South Korea)

Echo of Hope is operated by the National Intelligence Service, the chief intelligence service of South Korea, and broadcasts to listeners in North Korea.

Transmitter site: Seoul, South Korea (100 kW)

Schedule: 0700-1100 or 1100-0700 in Korean

The full schedule for Echo of Hope is:

<i>Time/UTC</i>	<i>Days</i>	<i>Language</i>	<i>kHz</i>	<i>Transmitter site</i>	<i>kW</i>
0300-0700 or 0700-1100	Daily	Korean	4885	Seoul, South Korea	10
			6250	Seoul, South Korea	10
			7720	Seoul, South Korea	10
0700-1100 or 0300-0700	Daily	Korean	3985	Hwaseong, South Korea	100
			5995	Hwaseong, South Korea	100
			6350	Hwaseong, South Korea	100
1100-0300	Daily	Korean	3985	Hwaseong, South Korea	100
			4885	Seoul, South Korea	10
			5995	Hwaseong, South Korea	100
			6250	Seoul, South Korea	10
			6350	Hwaseong, South Korea	100
			7720	Seoul, South Korea	10

Note: transmitters may switch to adjacent freqs (+/- 5 kHz) to avoid North Korean jamming; the frequencies used at 0300-0700 and 0700-1100 are reversed on the first Monday of the month.

NIS website: <https://eng.nis.go.kr/>

4895 kHz

• Mongolian Radio (Mongolia)

Mongolian Radio is part of MNB (Mongolian National Broadcaster), the official, state-funded broadcaster in Mongolia.

Transmitter site: Ulaanbataar, Mongolia (10 kW)

Schedule: irregularly heard; schedule for MR1 2300-1455 in Mongolian

Ron Howard commented on 22 May 2024 in a post to the World of Radio IO Group: "MONGOLIA. 4895, Mongolian Radio, 1223+ UT, May 22. Almost daily I check this frequency with no results, but recently have had a positive open carrier; today also a definite carrier, but never able to pull in any audio. Thanks very much to Mauno Ritola, who has also been assisting me by monitoring this frequency and today provides a positive confirmation. Greatly appreciate his help!"

4900 kHz

• Voice of the Strait (China)

Voice of the Strait is a service operated by the Peoples Liberation Army and broadcasting to Taiwan. There are two services, News Radio in Chinese (on MW 666 kHz; it was also on 4940 kHz but that is no longer heard) and the Minnan Language Programme (on MW 783 and 4900 kHz). The ID is "Haixiá zhī sheng"

Transmitter site: Fuzhou Wanlicun NRTA 552 site (50 kW at 140°)

Schedule: 0840v-1135v in Minnan for listeners in Taiwan

4905 kHz

• Xizang Radio and TV Station (China)

The Xizang Radio and TV Station is a broadcast network headquartered in Lhasa, Xizang (Tibet). It has two channels on shortwave, one in Chinese and another in Tibetan. The Tibetan channel includes the daily English language programme "Hello Xizang". The Xizang Autonomous Region, often shortened to Tibet or Xizang, is an autonomous region of China and is part of Southwestern China. It was formally established in 1965 to replace the Tibet Area, the former administrative division of the PRC established after the annexation of Tibet. The current borders were generally established in the 18th century and include about half of historical Tibet. The Tibet Autonomous Region spans over 1,200,000 km² (460,000 sq mi), and is the second-largest province-level division of China by area, after Xinjiang. Due to its harsh and rugged terrain, it is sparsely populated at just over 3.6 million people with a population density of 3 inhabitants per square kilometre (7.8/sq mi), and is the least-populous autonomous region or province in China.

Transmitter site: Lhasa, Tibet (100 kW)

Schedule: 2050-1805 in Tibetan (with Hello Xizang in English at 0700-0800 & 1600-1700)

CNR-8 is relayed at 2300-2357, 0400-0457 and 1300-1357 UTC

Silent period for maintenance: Tuesdays 0700-1000 UTC

The full schedule by frequency for Xizang Radio and TV Station in Tibetan and English is:

kHz kW Times/UTC and language

4905	50	2050-0700 Tibetan, 0700-0800 English, 0800-1600 Tibetan, 1600-1700 English, 1700-1805 Tibetan
4920	50	2050-0700 Tibetan, 0700-0800 English, 0800-1600 Tibetan, 1600-1700 English, 1700-1805 Tibetan
6025	100	2050-0700 Tibetan, 0700-0800 English, 0800-1600 Tibetan, 1600-1700 English, 1700-1805 Tibetan
6110	100	2050-0300 Tibetan, 1100-1600 Tibetan, 1600-1700 English, 1700-1805 Tibetan
6130	100	2050-0700 Tibetan, 0700-0800 English, 0800-1600 Tibetan, 1600-1700 English, 1700-1805 Tibetan
6200	100	2050-0700 Tibetan, 0700-0800 English, 0800-1600 Tibetan, 1600-1700 English, 1700-1805 Tibetan
7255	100	2050-0200 Tibetan, 1000-1600 Tibetan, 1600-1700 English, 1700-1805 Tibetan
7385	100	2050-0200 Tibetan, 0930-1600 Tibetan, 1600-1700 English, 1700-1805 Tibetan
9490	100	0200-0700 Tibetan, 0700-0800 English, 0800-1000 Tibetan
9580	100	0200-0700 Tibetan, 0700-0800 English, 0800-0930 Tibetan
9730	100	0300-0700 Tibetan, 0700-0800 English, 0800-1100 Tibetan

Xizang Radio and TV Station website: <http://www.vtibet.cn/> (see dropdown box for content in Chinese, Tibetan or English)

4920 kHz

• Xizang Radio and TV Station (China)

Same details as above for 4905 kHz.

Transmitter site: Lhasa, Tibet (100 kW)

Schedule: 2050-1805 in Tibetan (with Hello Xizang in English at 0700-0800 & 1600-1700)

CNR-8 is relayed at 2300-2357, 0400-0457 and 1300-1357.

Silent period for maintenance: Tuesdays 0700-1000

4930 kHz

• Voice of America (Botswana relay)

Voice of America (VOA) is an American international broadcaster funded by the United States Congress. It is the largest and oldest U.S. funded international broadcaster. VOA is headquartered in Washington, D.C., and overseen by the U.S. Agency for Global Media (USAGM).

Transmitter site: USAGM Botswana, Moepeng Hill, Botswana (100 kW - primarily for Southern Africa)

Schedule: 0300-0600, 1630-1630 and 1700-1900 as follows:

0300-0600	Daily	VOA English
1600-1630	Daily	VOA English
1700-1730	Daily	VOA Studio 7 in Shona to Zimbabwe
1730-1800	Daily	VOA Studio 7 in Ndebele to Zimbabwe
1800-1900	Monday-Friday	VOA Studio 7 Live Talk to Zimbabwe
1800-1900	Saturday/Sunday	VOA English

The VOA News website is <https://www.voanews.com/> and the VOA Studio 7 website is <https://www.voazimbabwe.com/>



4940 kHz

- **Estación 4940 (believed to be in Venezuela)**

Estación 4940 is seemingly an unlicensed station. It has been reported with the missionary programme "Fuerza de Paz".
Transmitter site: believed to be in South-West Venezuela, near the Colombian border.

Schedule: unconfirmed. Programmes are in Spanish and indigenous languages

4955 kHz

- **Radio Cultural Amauta (Peru)**

Radio Cultural Amauta is a radio station based in Huanta in Central Peru, capital of the province Huanta in the region Ayacucho. They say they "are a means of communication that disseminates Christian principles and values, contributes to the moral, spiritual and civic development of Quechua and Spanish-speaking families".

Transmitter site: Huanta, Huanta Province, Ayacucho Region (5 kW)

Schedule: 1000-1400 and 2100-0000 in Spanish and Quechua

Radio Cultural Amauta website: <https://radioamautaperu.com/>

4965 kHz

- **Voice of Hope Africa (Zambia)**

The California-based Strategic Communications Group, the parent organisation of Voice of Hope, purchased the former Christian Vision shortwave facility in Zambia in late 2014. It broadcasts Christian programmes for listeners in Africa.

Transmitter site: Makeni Ranch, 35 km outside Lusaka (100 kW)

Schedule: 1600-2000 in English for listeners in Central and Southern Africa

The schedule effective 1 December 2024 can be found at https://voiceofhope.com/schedule/voh-africa_program_grid.pdf



4970 kHz

- **Radio 567 (Australia)**

Radio 567 is operated by Peter Tate in New South Wales. It also operates on 2325 kHz.

Transmitter site: Wee Waa, New South Wales, Australia (low power)

Schedule: to be confirmed

4980 kHz

- **Xinjiang Radio and TV Station (China)**

Xinjiang Radio and TV Station is a radio and television station in Xinjiang, China that was formed in 2018 when the Xinjiang People's Broadcasting Station merged with Xinjiang Television. Xinjiang, officially Xinjiang Uighur Autonomous Region, is an autonomous region of China, located in the northwest of the country close to Central Asia. Xinjiang borders the countries of Mongolia, Russia, Kazakhstan, Kyrgyzstan, Tajikistan, Afghanistan, Pakistan and India. The Aksai Chin region, administered by China, is claimed by India. Xinjiang also borders Tibet, Gansu and Qinghai.

Transmitter site: Urumqi, Xinjiang, China (100 kW)

Schedule: 2240-0300 (Morning) & 1200-1800 (Evening) in Uighur - November to May only

The full schedule for XRTV Uighur service between November-May is:

2240-0300 on 3990 4980 6120 & 7205 kHz

0300-1200 on 7275 9560 11885 & 13670 kHz

1200-1800 on 3990 4980 6120 & 7205 kHz

4985 kHz

- **Rádio Brasil Central (Brazil)**

Rádio Brasil Central (RBC) is located in Goiânia, in the state of Goiás. It operates on 1270, 4985 and 11815 kHz, and FM, and in the case of the two shortwave frequencies reaches across Brazil, which has given it recognition throughout the country. It has a diverse programme, with emphasis on country music, journalism and sports.. It is a broadcaster belonging to the Government of the State of Goiás.

Transmitter site: Goiania, Goiás, Brazil (10 kW)

Schedule: 24 hours in Portuguese

Rádio Brasil Central also operates on shortwave 11815 kHz

4990 kHz

- **Hunan Radio and TV Station (China)**

Hunan Radio and TV Station is the provincial broadcasting station in Hunan. Hunan is a landlocked province, part of the South Central China region. Located in the middle reaches of the Yangtze watershed, it borders the province-level divisions of Hubei to the north, Jiangxi to the east, Guangdong and Guangxi to the south, Guizhou to the west and Chongqing to the northwest.

Transmitter site: Xiangtan, Hunan, China (10 kW)

Schedule: 2030-0100 (Morning), 0300-0500 (Daytime) and 0900-1700 (Evening) in Chinese and may include relays of CNR-1 in Chinese at certain times.

Hunan Radio and TV Station also operates on 5970 kHz (50 kW)

4996 kHz

- **RWM (Russia)**

RWM is the HF standard frequency and time signal radio station in Moscow, Russia. It is controlled by All-Russian Scientific Research Institute for Physical-Engineering and Radiotechnical Metrology, and operated by Russian Television and Radio Broadcasting Network. Frequencies are 4.996 MHz with 5 kW and on 9.996 and 14.996 MHz with 8 kW.

Transmitter site: Moscow-Taldom, Russia (8 kW)

Schedule: 24 hours with time pips and announcements in Russian

VNIIFTRI website: <https://www.vniiftri.ru/en/>

5000 kHz

- **BPM (China)**

BPM is operated by the Chinese Academy of Sciences, broadcasting from CAS's National Time Service Center in Pucheng County, Shaanxi. BPM is broadcast at 2.5, 5.0, 10.0, and 15.0 MHz.

Transmitter site: Pucheng County, Shaanxi, China (10 kW)

Schedule: 0730-0100 with time pips and announcements in Chinese

Website: <http://english.ntsc.cas.cn/au/>

- **HLA (South Korea)**

HLA is a time signal radio station in Daejeon, South Korea, operated by the Korea Research Institute of Standards and Science. Established on November 24, 1984, it transmits a 2 kW signal on 5 MHz (± 0.01 Hz).

Transmitter site: Daejeon, South Korea (2 kW)

Schedule: 24 hours with time pips and announcements in Korean

Website: <http://www.kriss.re.kr/time/research/service/hla.jsp> (on Wayback Machine)

- **WWV (USA)**

WWV is operated by the U.S. National Institute of Standards and Technology (NIST), under the oversight of its Time and Frequency Division, which is part of NIST's Physical Measurement Laboratory based in Gaithersburg, Maryland.

Transmitter site: Fort Collins, Colorado, USA (2.5 kW)

Schedule: 24 hours with time pips and announcements in English

Website: <https://www.nist.gov/pml/time-and-frequency-division/time-distribution/radio-station-wwv>

- **WWVH (Hawaii)**

WWVH is the Pacific sister station to WWV, and has a similar broadcast format. Like WWV, WWVH's main function is the dissemination of the official U.S. Government time and frequency standard.

Transmitter site: Barking Sands Missile Range, Kekaha, Kauai, Hawaii (10 kW)

Schedule: 24 hours with time pips and announcements in English

Website: <https://www.nist.gov/pml/time-and-frequency-division/time-distribution/radio-station-wwvh>

5010 kHz

- **WRMI-14 - Radio Miami International (USA)**

WRMI (Radio Miami International) is a commercial radio station that sells airtime to businesses and organisations.

Transmitter site: Okeechobee, Florida, USA (100 kW - 181° to the Caribbean)

Schedule: 0000-1500 with various programmes as follows:

<i>Time/UTC</i>	<i>Days</i>	<i>Station or programme</i>	<i>Language</i>
0000-0030	Daily	Radio Prague International	Spanish
0030-0100	Daily	Radio Slovakia International	Spanish
0100-0130	Mon/Fri	Alameda Bible Fellowship	English
	Tue/Sat	Alameda Bible Fellowship	Spanish
	Thu	Frecuencia al Dia	Spanish
0100-0200	Wed	La Rosa de Tokio	Spanish
	Sun	Radio Northern Europe International	English
0130-0145	Mon	La Nueva Vida Ahora	Spanish
	Tue	Viva Miami	English/Spanish
0130-0200	Thu	World of Radio	English
	Fri	Wavescan	English
	Sat	The Truth of Word	English
0145-0200	Mon	Verdad para el Mundo	Spanish
	Tue	Frank & Ernest	English
0200-0230	Daily	Radio Taiwan International	Spanish
0230-0300	Daily	Radio Prague International	Spanish
0300-0400	Daily	Supreme Master TV	English/others
0400-1100	Sat/Sun	Overcomer Ministry	English
1100-1130	Daily	Radio Slovakia International	Spanish
1130-1200	Daily	Radio Prague International	Spanish
1200-1500	Daily	Overcomer Ministry	English

The latest news about WRMI can be found on their Facebook page at <https://www.facebook.com/wrmiradio>

The official WRMI schedule can be found on their website at <https://www.wrmi.net/>

5020 kHz

- **Solomon Islands Broadcasting Corporation (Solomon Islands)**

Solomon Islands Broadcasting Corporation (SIBC) is the official radio broadcaster of Solomon Islands. SIBC is self-defined as a public service broadcaster "which facilitates educational programs, recording and promotion of local music, and the unity of diverse cultures in a scattered island nation".

Transmitter site: Honiara City, Guadalcanal, Solomon Islands (10 kW)

Schedule: 900-1200 in Pijin and English (1200-1900 irregular with back-to-back songs and no announcements)

The continuation of back-to-back songs after 1200 may run for a short period of time until the transmitter is switched off, but on occasions has been heard to carry on right through the night (Solomon Islands time) until sign-on the next morning.

Website: <https://www.sibconline.com.sb/>



Solomon Islands Broadcasting Corporation

- sibcnews@solomon.com.sb
- SIBC News
- www.sibconline.com.sb
- @NewsSibc
- 20051

5025 kHz

• **Radio Rebelde (Cuba)**

Radio Rebelde (English: Rebel Radio) broadcasts 24 hours a day with a varied programme of national and international music, news reports and live sport events. The station was set up in 1958 by Che Guevara in the Sierra Maestra region of eastern Cuba, and was designed to broadcast the aims of the 26th of July Movement led by Fidel Castro. Transmitting on shortwave, Radio Rebelde also broadcast the latest combat news, music and spoken literature to the people of Cuba during the Cuban Revolution. Today, Radio Rebelde has forty-four transmitters on the FM dial covering 98 percent of the island of Cuba, plus a shortwave signal 5025 kHz and several AM transmitters on various frequencies.

Transmitter site: Bauta, Cuba (100 kW)

Schedule: 24 hours in Spanish (but erratic, missing on some days)

Website: <https://www.radiorebelde.cu/>

• **Radio Quillabamba (Peru)**

Radio Quillabamba is a Catholic radio station in Quillabamba, a city in southern Peru. It is the capital of La Convención Province, which is the largest province in area of the Cusco Region. Radio Quillabamba, known as the "The Voice of those who have no Voice", was founded in Peru in 1966 thanks to the work of Dominican missionaries. Today, Radio Quillabamba is committed to "defending the values, culture, faith and organisation of the Conventional and Latin American people".

Transmitter site: Quillabamba, La Convención Province, Cusco Region, Peru (5 kW)

Schedule: 1000-0200 in Spanish and Quechua

Website: <http://www.radioquillabamba.com/web/>

5035 kHz

• **Rádio Educadora de Coari (Brazil)**

Rádio Educação Rural de Coari (5035 kHz) and Rádio Coari AM 560 are owned by the Santíssimo Redentor Foundation serving the Roman Catholic Diocese of Coari in the Amazon region. The organisation provides programmes on training, information and entertainment for the local population.

Transmitter site: Coari, Amazonas State, Brazil (5 kW)

Schedule: 1000-2345 (irregular) in Portuguese

Website: <https://radiocoari.com.br/>

5045 kHz

• **Bay Islands Radio (Australia)**

Bay Islands Radio broadcasts from a low-power shortwave transmitter at Russell Island, Queensland.

Transmitter site: Macleay Island, Queensland, Australia (low power)

Schedule: to be confirmed

5050 kHz

• **Voice of Guangxi Beibu Wan - Beibu Bay Radio (China)**

Beibu Bay Radio is a joint venture of Guangxi Broadcasting and TV Bureau and CRI. It targets ASEAN countries primarily in the Gulf of Tonkin.

Transmitter site: Nanning, Guangxi, China (100 kW)

Schedule: 2300-0100 (Morning) and 0945-1600 (Evening)

2300-0100 in Chinese

0945-1100 in Chinese

1100-1200 in Vietnamese

1200-1300 in Vietnamese

1300-1430 in Chinese

1430-1500 in Cantonese

1500-1530 in Chinese

1530-1600 in Thai

Please see Cahcn's website at <https://cahcn.github.io/posts/2024-10-27-beibu-bay-radio.html> for comments relating to the B24 schedule (right click for translation from Chinese into English)

• **WRMI-4 - Radio Miami International (USA)**

WRMI (Radio Miami International) is a commercial radio station that sells airtime to businesses and organisations.

Transmitter site: Okeechobee, Florida, USA (100 kW - 160° to Latib America)

Schedule: 0000-0500 with various programmes as follows:

<i>Time/UTC</i>	<i>Days</i>	<i>Station or programme</i>	<i>Language</i>
0000-0200	Daily	The Overcomer Ministry	English
0200-0300	Mon	WRMI Legends - Soldiers of Light	English
0200-0500	Tue	WRMI Legends - Jeff Clark	English
	Wed	WRMI Legends - Dave Mason	English
	Thu	WRMI Legends - Ted Randall	English
	Fri	WRMI Legends - Dan Collins	English
	Sat	WRMI Legends - Steve Hunter	English
	Sun	WRMI Legends - Jeff Laurence	English
0300-0400	Mon	WRMI Legends - Ria's Ham Shack	English
0400-0500	Mon	WRMI Legends - QSO Radio Show	English

The latest news about WRMI can be found on their Facebook page at <https://www.facebook.com/wrmiradio>

The official WRMI schedule can be found on their website at <https://www.wrmi.net/>

5060 kHz

• **Xinjiang Radio and TV Station (China)**

Xinjiang Radio and TV Station is a radio and television station in Xinjiang, China that was formed in 2018 when the Xinjiang People's Broadcasting Station merged with Xinjiang Television. Xinjiang, officially Xinjiang Uigur Autonomous Region, is an autonomous region of China, located in the northwest of the country close to Central Asia. Xinjiang borders the countries of Mongolia, Russia, Kazakhstan, Kyrgyzstan, Tajikistan, Afghanistan, Pakistan and India. The Aksai Chin region, administered by China, is claimed by India. Xinjiang also borders the Tibet Autonomous Region and the provinces of Gansu and Qinghai.

Transmitter site: Urumqi, Xinjiang, China (100 kW)

Schedule: 2310-0300 (Morning) and 1200-1800 (Evening) in Chinese - November to May only

The full schedule for XRTV Chinese service between November-May is:

2310-0300 on 3950 5060 5960 & 7310 kHz

0300-1200 on 5960 7260 9600 & 11770 kHz

1200-1800 on 3950 5060 5960 & 7310 kHz

5085 kHz

• **WTWW (USA)**

WTWW is officially licensed to Leap of Faith, Inc. Until 2022, WTWW had carried an oldies/classic hits format operated by Ted Randall, who also appeared on several programs on the station, and his wife Holly on the 5085 kHz and 9940 kHz frequencies. WTWW went off-air 10 November 2022, with Randall taking the oldies format to WRMI; the station returned to the air sporadically in December solely carrying Scriptures for America with George McClintock operating the station. However, due to technical issues and George's health, the transmitter has been off-air on occasions.

Transmitter site: Lebanon, Tennessee, USA (100 kW)

Schedule: 0100-0530 in English

When on air with two transmitters, the times for each frequency should/could be something like this, but the schedule may vary and be liable to interruptions due to on-going operational problems:

1 transmitter 9930 kHz daytime and 5920 kHz at night (1600-0200 on 9930 and 0200-0500 on 5920)

2 transmitter 9475 kHz daytime and 5085 kHz at night (2100-0100 on 9475 and 0100-0530 on 5085)

The situation regarding the WTWW transmitters seems to change quite frequently. The best way to keep up to date with matters is to check Glenn Hauser's reports from George McClintock at <http://www.worldofradio.com/Hauserlogs.html>

Website: <https://wtww.org/>



• **WBCQ (USA)**

WBCQ is owned and operated by Allan Weiner, who also owns and operates WXME AM 780 kHz and WBCQ-FM 94.7 MHz at the shortwave site. The station airs talk shows and other programmes produced by commercial networks as well as former pirate radio broadcasters.

Transmitter site: Monticello, Maine, USA (50 kW)

Schedule: 0000-0400 Sunday and Monday

Sunday	0000-0100	Radio Timtron Worldwide
	0100-0200	Grits Radio
	0200-0300	The Lumpy Gravy Radio Show
	0300-0400	The Lost Discs Radio Show
Monday	0000-0100	Radio Timtron Worldwide
	0100-0400	Radio New York International
	0100-0300	American Debauchery with Duane Bruce
	0300-0400	The Eric Dolphy Mystery Hour

The Monday schedule between 0100-0400 seems to contradict itself and needs to be confirmed.

WBCQ website: <http://www.wbcq.com/>

5130 kHz: the following was posted by Alan Pennington to the BDXC-UK IOG on 9 January 2025:

"The Radio Angela transmitter of WBCQ Radio 5130 kHz is back on the air ready for your programming. We have reconditioned the classic Collins transmitter for more power and improved modulation. The transmitter is available now for program bookings. Prime time is 6pm-12midnight eastern time. The transmitter is available on a 24/7 basis. We are offering a discount rate of \$30 an hour with discounts available for four or more hours booked weekly. Now is the time to get your programming on the air to a worldwide audience at a very attractive rate. Book now for the best time slots." (WBCQ website <http://www.wbcq.com/> (undated))

On WBCQ's Facebook: "Hello all, With the new year we are making some changes to our Area 51 service. Effective 4 January 2024 we are moving all of our programming from 6160 kHz to 5130 kHz. In addition to the frequency change, we are reducing our broadcast schedule by two hours. Our new schedule is Saturday and Sunday 7-11PM US eastern time (Sunday and Monday 0000-0400 UTC).

We really dislike having to drop the 11-midnight hours but increased transmission costs and lack of sustaining donations are to blame. If we are able to get more regular contributions we will consider expanding the service in the future" (WBCQ The Planet on Facebook, 4 January 2025)

• **Hit Shortwave (Kyrgyzstan)**

This low power shortwave transmitter is owned and operated by Kyrgyztelekom. It often identifies at the start and end of the transmission as "Hit Shortwave"

Transmitter site: Bishkek-Krasnaya Rachka, Kyrgyzstan (15 kW)

Schedule: 1455v-1800v Monday-Friday on 1st to 15th of each month

The cycle of broadcasts runs between the 1st and 15th of each month on weekdays only. Programme content is entirely Christian and appears to be a production of IBRA Radio and/or TWR, although neither seems to be mentioned during the broadcasts.

The transmitter is often reported with the programme of "Radio Sadaye Zindagi" (Afghan Radio, The Sound of Life), a Christian programme of Pamir Ministries in Dari for listeners in Afghanistan. This is often heard from around 1600 through to its close at a variable time up to 1800 UTC. Prior to this from sign-on at 1455 UTC, programmes in Dari and Central and South Asian languages (possibly Kazakh and Urdu) have been heard, as well as Arabic on occasions, presumably on behalf of Christian organisations.



Pirate Stations on the Tropical Bands

The following is a list of unofficial (pirate) radio stations reported on the Tropical Bands since January 2024. The initial sources for the reports that have been used for this survey are:

British DX Club - Communication

Canadian International DX Club - Messenger

North American Shortwave Association - NASWA Journal and NASWA Flashsheet

Of course there may be other pirate stations around the world that have operated in the Tropical Bands over the past twelve months and if anyone can provide details of these please let me know.

kHz	Station	Location
3440	Wolverine Radio	North America
3880	Worldwide Marine Broadcasters Radio (WMBR)	Europe
3890	Worldwide Marine Broadcasters Radio (WMBR)	Europe
3905	Radio Alice	Europe
3910	Radio Wilskracht	Europe
3920	Mike Radio	Europe
3925	Misti Radio	Europe
3935	Radio Batavia	Europe
	Worldwide Marine Broadcasters Radio (WMBR)	Europe
3940	Mike Radio	Europe
	Music Wave Radio	Russia or Belarus
3943	Misti Radio	Europe
4015	Wolverine Radio	North America
4032	Ballsmaker Radio	North America
4036	WTF Radio Worldwide	North America
4090	Art Bell Speaks Radio	North America
4185	Santa Claus Radio	North America
	Sycko Radio	North America
	Thunder Chicken Radio	North America
	77LJS	North America
4760	Radio Jan van Gent	Europe
4780	Radio Jan van Gent	Europe
4810	Radio Jan van Gent	Europe
4850	Zender Akenzo	Europe
4870	Mystery 21	Europe
	Radio Contikenzo	Europe
	Radio 60	Europe
	Zender Akenzo	Europe
4875	Mystery 21	Europe
	Radio Contikenzo	Europe
4885	WDOG	North America
4895	Mystery 21	Europe
	Radio Contikenzo	Europe
4900	Radio Contikenzo	Europe
	Zender Akenzo	Europe
4904	Radio Moon Air	Europe
4940	Zender Akenzo	Europe
4950	Mystery 21	Europe
4970	Mystery 21	Europe
5010	Radio Contikenzo	Europe
5015	Radio Deltracks	Europe
5030	Radio Deltracks	Europe
	Radio Jan van Gent	Europe
5035	Radio Deltracks	Europe
5040	Radio Continetal	Europe
	Radio Deltracks	Europe
5050	Worldwide Marine Broadcasters Radio (WMBR)	Europe
5055	Radio Activity International	Europe
5065	Radio Activity International	Europe
5135	Charleston Radio International	Europe
5140	Charleston Radio International	Europe
	Hot 80's	Europe
	Radio Deltracks	Europe
5185	Radio Illuminati	North America