

# TIME SIGNAL STATIONS OF THE WORLD

**(SORTED BY FREQUENCY ORDER)**

**Version 1.2**

**Last updated 10th of June 2020**

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## **NOTES:**

- #1:** The Country Identifiers used in this list are taken from the NDB List Country Code List which is available from the NDB List website at: <https://ndblist.info/ndbinfo/countrylist.pdf>
- #2:** This list is aimed only at radio enthusiasts, and it goes without saying that it should not be used for any other purposes. The data can't yet be confirmed as being 100% accurate and up to date, so any updates or corrections would be greatly appreciated.
- #3:** This list is was put together from various sources mainly to have a starting place to look for these signals, though it is quite possible that many of them are now inactive or closed, so any reports of loggings would be very helpful in checking its accuracy. Details can be sent via the address shown below, and any updates or details of verifications received would be greatly appreciated.
- #4:** More information about Datamodes and the decoders that are available to receive them can be found at the following webpage: <https://ndblist.info/datamodes.htm>

There is now a specialist group called the 'DGPS List' which also covers this mode, to find out more visit: <https://groups.io/g/dgpslist/>

Updates for this list can be sent to: **<TSSupdates at ndblist.info>** (replace the 'at' with @)

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# TIME SIGNAL STATIONS OF THE WORLD – SORTED BY FREQUENCY ORDER:

**NOTE: #1** Many of the Stations listed below are marked as 'active' when this has been confirmed, but some of the others may or may not be on air at this time, so any confirmations of their current status would be greatly appreciated. Stations known to be closed or thought to be 'inactive' at this time are now listed in the next section.

**NOTE: #2** As of version 1.2 Maidenhead Grid Locator Squares are now included as well.

kHz:	Call:	Station Name:	COU:	Country:	Mode:	Power:	Latitude:	Longitude:	LOC:	ID Times:	Broadcast Times UTC:	Remarks:
20.0	WWVL	Fort Collins, CO	USA	United States			40°40'00N	105°03'00W	DJ74lq			Out of Service
25.0	RAB 99	Chabarovsk	RUS	Russia	CW	300kW	48°30'00N	134°50'00E	PN78km	H + 06	0206 - 0220 & 0606 - 0620	1 hour earlier in DST
25.0	RJH 63	Krasnodar	RUS	Russia	CW	300kW	44°46'00N	39°34'00E	KN94ss	H + 06	1106 - 1120	1 hour earlier in DST
25.0	RJH 69	Molodecno	BLR	Belarus	CW	300kW	54°28'00N	26°47'00E	KO34jl	H + 06	0706 - 0722	1 hour earlier in DST
25.0	RJH 77	Archangel'sk	RUS	Russia	CW	300kW	64°22'00N	41°35'00E	LP04ti	H + 06	0906 - 0922	1 hour earlier in DST
25.0	RJH 86	Biškek	KGZ	Kyrgystan	CW	300kW	43°03'00N	73°37'00E	MN63tb	H + 06	0406 - 0422 & 1006 - 1022	1 hour earlier in DST
25.0	RJH 90	Niznij Novgorod	RUS	Russia	CW	300kW	56°11'00N	43°57'00E	LO16xe	H + 06	0506 - 0522	1 hour earlier in DST
40.0	JJY	Haganeyama	JPN	Japan	CW	10kW	33°27'56N	130°10'34E	PM53cl	H + 15 & 45	24H	
50.0	RTZ	Angarsk	RUS	Russia	CW	10kW	52°26'00N	103°41'00W	DO82dk	H + 05	24H exc 2100 - 2200	
60.0	JJY 2	Fuji	JPN	Japan	CW	10kW	33°28'00N	130°11'00E	PM53cl	?	24H	
60.0	MSF	Rugby	ENG	England	CW	15kW	52°22'00N	01°11'00W	IO92ji	time markers	24H	active
60.0	WWVB	Fort Collins, CO	USA	United States	CW	50kW	40°40'28N	105°02'40W	DN70lq	time markers	24H	
65.0	HLA	Yeoju	KOR	South Korea	CW	10kW					24H	Test purposes only
66.6666	RBU	Moscow	RUS	Russia	CW	50kW	55°44'00N	38°12'00E	KO95cr	H + 05	24H	active
68.5	BPC	Shangqiu	CHN	China	CW	90kW					0000 - 2100	
77.5	DCF 77	Mainflingen, HE	DEU	Germany	CW/PSK	50kW	50°01'00N	09°00'00E	JO40ma	time markers	24H	active
77.5	BSF	Chung-Li	TWI	Taiwan	CW	1kW						
100.0	BPL	Pucheng	CHN	China	??	800kW					0530 - 1330	
162.0	TDF	France Inter	FRA	France	PSK	800kW	47°01'00N	09°00'00E	JN47ms		24H	active

2500.0	BPM	Pucheng	CHN	China	AM	10kW	35°00'00N	109°31'00E	OM45sa	H + 29 & 59, H + 45-10, 15-40	0745 - 0100	
2500.0	WWV	Fort Collins, CO	USA	United States	AM	2.5kW	40°40'49N	105°02'27W	DN70lq	H + 00 & 30	24H	
2500.0	WWWVH	Kekaha	HWA	Hawaii	AM	5kW	21°59'26N	159°46'00W	BL01cx	H + 29 & 59	24H	
3300.0	CHU	Ottawa	CAN	Canada	AM/USB	3kW	45°17'47N	75°45'22W	FN25ch	every minute	24H	active
4996.0	RWM	Moscow	RUS	Russia	CW	10kW	55°43'36N	38°12'29E	KO95cr	ID H + 09 & 39	24H	active
4998.0	EBC	San Fernando	ESP	Spain	CW	1kW					1030 - 1055 Mon. to Fri.	
5000.0	BPM	Pucheng	CHN	China	AM	20kW	35°00'00N	109°31'00E	OM45sa	H + 29 & 59, H + 45-10, 15-40	24H	
5000.0	HLA	Taejon	KOR	South Korea	AM	2kW	36°23'00N	127°22'00E	PM36qj	every minute	24H	
5000.0	WWV	Fort Collins, CO	USA	United States	AM	10kW	40°40'49N	105°02'27W	DN70lq	H + 00 & 30	24H	
5000.0	WWWVH	Kekaha	HWA	Hawaii	AM	10kW	21°59'26N	159°46'00W	BL01cx	H + 29 & 59	24H	
7850.0	CHU	Ottawa	CAN	Canada	AM/USB	3kW	45°17'47N	75°45'22W	FN25ch	every minute	24H	active
9996.0	RWM	Moscow	RUS	Russia	CW	10kW	55°43'36N	38°12'29E	KO95cr	H + 09 & 39	24H	active
10000.0	BPM	Pucheng	CHN	China	AM	20kW	35°00'00N	109°31'00E	OM45sa	H + 29 & 59, H + 45-10, 15-40	24H	active
10000.0	LOL 1	Buenos Aires	ARG	Argentina	CW	2kW	34°37'00S	58°21'00W	GF05tj	H + 04 & 09	1100-1200 & 1400-1500	
10000.0	PPE	Rio de Janeiro	BRA	Brazil		1kW					24H	
10000.0	SRC10	Corsanico-Bargecchia	ITA	Italy	AM	90w	43°54'48N	10°17'44E	JN35dv	H + 00 & 30	24H	active
10000.0	WWV	Fort Collins, CO	USA	United States	AM	10kW	40°40'49N	105°02'27W	DN70lq	H + 00 & 30	24H	
10000.0	WWWVH	Kekaha	HWA	Hawaii	AM	10kW	21°59'26N	159°46'00W	BL01cx	H + 29 & 59	24H	
14670.0	CHU	Canada (Ottawa)	CAN	Canada	AM/USB	3kW	45°17'47N	75°45'22W	FN25ch	every minute	24H	active
14996.0	RWM	Moscow	RUS	Russia	CW	10kW	55°43'36N	38°12'29E	KO95cr	ID H + 09 & 39	24H	
15000.0	BPM	Pucheng	CHN	China	AM	20kW	35°00'00N	109°31'00E	OM45sa	H + 29 & 59	0100-0900	
15000.0	WWV	Fort Collins, CO	USA	United States	AM	10kW	40°40'49N	105°02'27W	DN70lq	H + 00 & 30	24H	
15000.0	SRC10	Corsanico-Bargecchia	ITA	Italy	AM	90w	43°54'48N	10°17'44E	JN35dv	H + 00 & 30	24H	active
15000.0	WWWVH	Kekaha	HWA	Hawaii	AM	10kW	21°59'26N	159°46'00W	BL01cx	H + 29 & 59	24H	
15006.0	EBC	San Fernando	ESP	Spain	CW	1kW					1000 – 1025 Mon. to Fri.	
20000.0	WWV	Fort Collins, CO	USA	United States	AM	2.5kW	40°40'49N	105°02'27W	DN70lq	H + 00 & 30	24H	

# STATIONS WHICH ARE THOUGHT TO BE PERMANENTLY CLOSED OR CURRENTLY INACTIVE:

<b>kHz:</b>	<b>Call:</b>	<b>Station Name:</b>	<b>COU:</b>	<b>Country:</b>	<b>Mode:</b>	<b>Power:</b>	<b>Latitude:</b>	<b>Longitude:</b>	<b>LOC:</b>	<b>ID Times:</b>	<b>Broadcast Times UTC:</b>	<b>Remarks:</b>
75.0	HBG	Genevè-Prangins	SUI	Switzerland	CW	20kW	46°24'00N	06°15'00E	JN36dj	time markers	24H	inactive frequency
2500.0	HLA	Taejon	KOR	Korea			36°23'00N	127°22'00E	PM36qj			inactive frequency
3810.0	HD2IOA	Guayaquil	EQA	Ecuador	LSB	1kW				every minute	0500 - 1700	inactive frequency?
5000.0	ATA	New Delhi	IND	India		8kW	28°34'00N	77°19'00E	ML88pn			inactive frequency
5000.0	BSF	Taipei	TWN	Taiwan	AM	2kW	24°56'00N	121°09'00E	PL04nw	time markers	24H exc H + 35-40	inactive frequency
5000.0	LOL 1	Buenos Aires	ARG	Argentina	CW	2kW	34°37'00S	58°21'00W	GF05tj	H + 04 & 09	1100 - 1200 & 1400 - 1500	inactive frequency
5000.0	YVTO	Caracas	VEN	Venezuela	AM	2kW	10°30'00N	66°56'00W	FK60mm	every minute	24H	inactive frequency
8000.0	HLA	Taejon	KOR	South Korea			36°23'00N	127°22'00E	PM36qj			inactive frequency
8865.0	XSG	Shanghai	CHN	China	CW		31°07'00N	121°33'00E	PM01sc		24H	inactive frequency
10000.0	ATA	New Delhi	IND	India		8kW	28°34'00N	77°19'00E	ML88pn	H + 14, 29, 44, 59	24H	inactive frequency
10000.0	BSF	Taipei	TWN	Taiwan	AM	2kW	24°56'00N	121°09'00E	PL04nw			inactive frequency
12856.0	XSG	Shanghai	CHN	China	CW		31°07'00N	121°33'00E	PM01sc		24H	inactive frequency
15000.0	ATA	New Delhi	IND	India			28°34'00N	77°19'00E	M188pn			inactive frequency
15000.0	BSF	Taipei	TWN	Taiwan			24°56'00N	121°09'00E	PL04nw	time markers	24H exc 35-40	inactive frequency
15000.0	LOL 1	Buenos Aires	ARG	Argentina	AM	2kW	34°37'00S	58°21'00W	GF05tj			inactive frequency
20000.0	WWVH	Kekaha	HWA	Hawaii			21°59'26N	159°46'00W	BL01cx			inactive frequency
25000.0	WWV	Fort Collins	USA	United States	AM	2.5kW	40°40'49N	105°02'27W	DN70lq			inactive frequency
25000.0		Mike's Espoo	FIN	Finland	CW	0.2kW	60°10'00N	24°49'00E	KP20jd			inactive frequency

## CREDITS & SOURCES:

**NOTE#** It goes without saying that this database is provided only for the use of hobbyists and should not be used for any other purposes. No claims are made about this being an accurate and completely up to date list, since even many of the "official" lists seem to have problems in obtaining up to date information about some of these stations. It should therefore only be considered as an attempt to create a workable list for enthusiasts to use. As always, any updates and corrections are greatly welcomed, especially details of any stations that are still active, and any conformation of their schedules would be a great help.

Most of the material in this database came from the following sources, my thanks to all of them, and my sincere apologies to anyone I accidentally left out (do let me know if you're not here and think you should be!):

Admiralty List of Radio Signals Volume 2: <https://www.admiralty.co.uk/publications/publications-and-reference-guides/admiralty-list-of-radio-signals>  
Associazione Amici di ItalCable: <http://www.associazionecable.it/>  
BPM website: [http://english.ntsc.cas.cn/rs/fs/200909/t20090917\\_39104.html](http://english.ntsc.cas.cn/rs/fs/200909/t20090917_39104.html)  
CHU website: <https://nrc.canada.ca/en/certifications-evaluations-standards/canadas-official-time/nrc-shortwave-station-broadcasts-chu>  
DFC 77 website: <https://www.ptb.de/cms/en/ptb/fachabteilungen/abt4/fb-44/aq-442/dissemination-of-legal-time/dcf77.html>  
DGPS List: <https://groups.io/g/dgpslist>  
EBC website: <https://armada.defensa.gob.es/ArmadaPortal/page/Portal/ArmadaEspañola/cienciaobservatorio/prefLang-en/06Hora>  
JJY website: <http://jvy.nict.go.jp/jvy/index-e.html>  
MSF website: <https://www.npl.co.uk/msf-signal>  
RTZ info via Irkutz DXers: <http://www.irkutsk.com/radio/tis.htm>  
**Ruus Vos**, Netherlands  
TDF website: <https://www.anfr.fr/gestion-des-frequences-sites/signal-horaire/quest-ce-que-le-signal-horaire/>  
WWV website: <https://www.nist.gov/pml/time-and-frequency-division/radio-stations/www>  
WWVH website: <https://tf.nist.gov/stations/wwwh.htm>