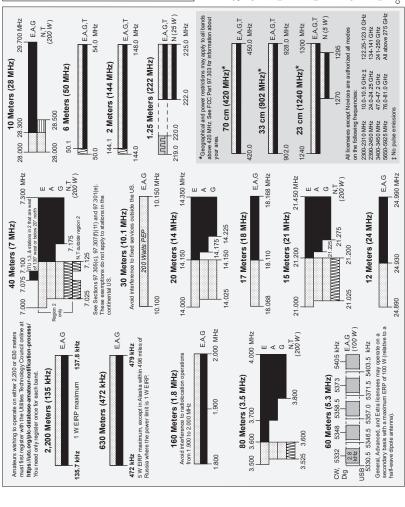
US Amateur Radio Bands

US AMATEUR POWER LIMITS—FCC 97.313 An amateur station must use the minimum transmitter power necessary to carry out the desired communications. (b) No station may transmit with a transmitter power exceeding 1.5 kW PEP.







See www.arn.org/band-plan for detailed band plans.

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The Considerate Operator's Frequency Guide

The following frequencies are generally recognized for certain modes or activities (all frequencies are in MHz) during normal conditions. These are not regulations and occasionally a high level of activity, such as during a period of emergency response, DXpedition or contest, may result in stations operating outside these frequency ranges.

Nothing in the rules recognizes a net's, group's or any individual's special privilege to any specific frequency. Section 97.101(b) of the Rules states that "Each station licensee and each control operator must cooperate in selecting transmitting channels and in making the most effective use of the amateur service frequencies. No frequency will be assigned for the exclusive use of any station." No one "owns" a frequency.

It's good practice — and plain old common sense — for any operator, regardless of mode, to check to see it the frequency is in use prior to engaging operation. If you are there first, other operators should make an effort to protect you from interference to the extent possible, given that 100% interference-free operation is an unrealistic expectation in today's congested bands.

oxtorit poddibio, gi	voir that 100 % interiorence free operation to air	arrodnono expectation	in today o congected bands.
Frequencies	Modes/Activities	Frequencies	Modes/Activities
1.800-2.000	CW	14.233	D-SSTV
1.800-1.810	Digital Modes	14.236	Digital Voice
1.810	CW QRP calling frequency	14.285	QRP SSB calling frequency
1.843-2.000	SSB. SSTV and other wideband	14.286	AM calling frequency
1.040 2.000	modes	14.200	Aw calling requericy
1.910	SSB QRP	18.100-18.105	RTTY/Data
1.995-2.000	Experimental	18.105-18.110	Automatically controlled data stations
1.999-2.000	Beacons	18.110	IBP/NCDXF beacons
1.000 2.000	2000010	18.162.5	Digital Voice
3.500-3.510	CW DX window	10.102.5	Digital Voice
3.560	QRP CW calling frequency	21.060	QRP CW calling frequency
3.570-3.600	RTTY/Data	21.070-21.110	RTTY/Data
3.585-3.600	Automatically controlled data stations	21.090-21.110	Automatically controlled data stations
3.590	RTTY/Data DX	21.150	IBP/NCDXF beacons
			SSTV
3.790-3.800	DX window	21.340	
3.845	SSTV	21.385	QRP SSB calling frequency
3.885	AM calling frequency		
3.985	QRP SSB calling frequency	24.920-24.925	RTTY/Data
		24.925-24.930	Automatically controlled data stations
7.030	QRP CW calling frequency	24.930	IBP/NCDXF beacons
7.040	RTTY/Data DX		
7.070-7.125	RTTY/Data	28.060	QRP CW calling frequency
7.100-7.105	Automatically controlled data stations	28.070-28.120	RTTY/Data
7.171	SSTV	28.120-28.189	Automatically controlled data stations
7.173	D-SSTV	28.190-28.225	Beacons
7.285	QRP SSB calling frequency	28.200	IBP/NCDXF beacons
7.290	AM calling frequency	28.385	QRP SSB calling frequency
	, ,	28,680	SSTV
10.130-10.140	RTTY/Data	29.000-29.200	AM
10.140-10.150	Automatically controlled data stations	29.300-29.510	Satellite downlinks
	· · · · · · · · · · · · · · · · · · ·	29.520-29.580	Repeater inputs
14.060	QRP CW calling frequency	29.600	FM simplex
14.070-14.095	BTTY/Data	29.620-29.680	Repeater outputs
14.095-14.0995	Automatically controlled data stations		
14.100	IBP/NCDXF beacons	ARRI hand plans	s for frequencies above 28.300 MHz
14.1005-14.112	Automatically controlled data stations	are shown in The	ARRL Repeater Directory and on
14.230	SSTV	www.arrl.org.	ATTILL TIOPCALCT DIRECTORY AND ON
14.200	331 V	www.arri.org.	

References

CW Parse Tree

https://commons.wikimedia.org/wiki/File:Morse-code-tree.svg

World Maidenhead Grid Map

https://www.dxengineering.com/techarticles/dxegeneralnews/download-a-free-worldwide-grid-square-map-from-dx-engineering

ARRL Frequency Allocation Chart https://www.arrl.org/graphical-frequency-allocations

ARRL Considerate Operator's Frequency Guide https://www.arrl.org/considerate-operator

ARRL Communicating with Other Hams https://www.arrl.org/files/file/Get%20on%20the%20Air/Comm%20w%20Other%20Hams-Q%20Signals.pdf

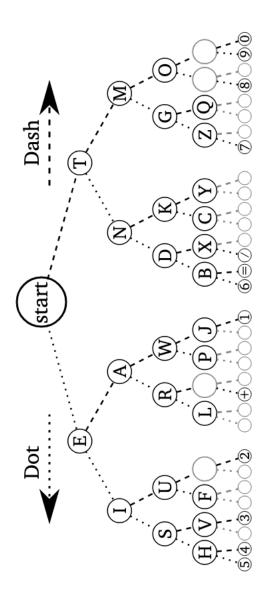
Icom US Grid Square Map

https://www.icomamerica.com/lineup/amateur/Band_Plan_Map/

Icom Common Prefixes of Countries

https://www.hamqsl.com/bandchar.pdf

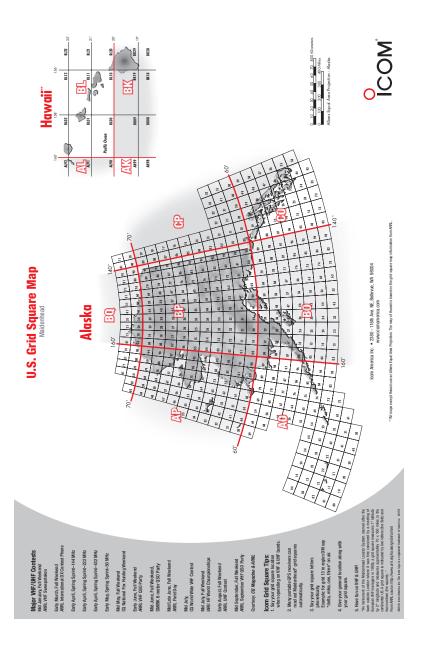
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REFIX	COUNTRY	PREFIX	COUNTRY	PREFIX	COUNTRY	PREFIX	COUNTRY	PREFIX	COUNTRY
AØ	Sov. Mil. Order of Malta	C8-C9	Mazembique	H4	Solomon Is.	0.10	Market Reef	VK9L	Lord Howe I.
S, 9MØ	Sprotly Is.	CA-CE	Chile	H40	Temptu Province	OK-OL	Czech Republic	VK9M	Mellish Roef
A	Молосо	CEOX	Son Felix & Son Ambrosia Is.	HA	Hungary	OM	Slovak Republic	VK9N	Norfolk I.
86, 387	Agalega & St. Brandon Is.	CEBY	Easter I.	HB	Switzerland	ON-OT	Belgium	VK9W	Willis I.
88	Mouritius	CEOZ	Juan Fernandez Is.	HBØ	Liechtenstein	OX	Greenland	VK9X	Christmes I.
89	Rodriguez I.	CE9	Antarctica	HC-HD	Ecuador	OY	Farce Is.	V0	Canada
(Equatorial Guinea	CM	Cuba	HC8-HD8	Galapagos Is.	0Z	Denmork	VP2E	Anguille
CØ	Annoben I.	CN	Morecco	HFØ	South Sherland Is.	P2	Papus New Guines	VP2M	Montserret
D2	Fiji k.	(0	Cuba	HG	Hungary	P4	Andro	VP2V	British Virgin Is.
D2	Rotuma I.	CP CF	Bolivia	HH		PS PS	North Korea Netherlands	VP5	Turks & Coicos Is.
D2 DA	Conway Reef	CL3	Portugal Madeira Is.	HI-HK	Daminican Republic	PA-PI PJ2, PJ4		VP6 VP8	Pitosim I. Anterctico
	Swaziland Tunisin	CIS	Matera Is. Azores	HJ-HK	Colombia San Andres & Providencia	PJ2, PJ4 PJ5-PJ8	St. Maarten, Saba, St. Eustetius	VP8	Anterctice Folkland Is
W		CV-CX		HKO	Nalpelo I.	PJ9-PJ6	Netherlands Antilles	VP8	
x x	Vietnom Guinea	CY-CX CYØ	Uruguay Sable I.	HL	Malpelo I. South Kove	PP-PY	Netherlands Artifles Renril	VP8	South Georgia I. South Shetland Is.
Y	Roset I	CY9	St. Poul L	HO-HP	Ponomo	PPG-PYGF	Ferrendo de Nomobo	VP8	South Orkney Is.
Y	Peter I I.	D2, D3	St. POULL Angola	HQ-HR	Hendures	PPØ, PYØS	St. Peter & St. Paul Rocks	VP8	South Sandwich Is.
1-4K		D2, D3			Tholand		Sr. reter & Sr. real Rocks Trindade I. & Mortim Vaz Is.	VP9	
J-48.	Azerboijan Georgia	D6	Cape Verde Comores	HS, E2	Verlicen	PPO, PYOT	Surinam	VQ9	Bernudo Chooss Is.
	Si Lanka				Vencen Souri Janhin				
P-4S U UN	Sri Lanka United Nations HD	DA-DL DU-DZ	Germony Philippines	HZ	Saudi Arabia Italy	RA-RZ RA-RZ	European Russia Asintir Russia	VS6	Heng Kong Andrewen & Miceber Is
			Philippines Tholland			RA-RZ R1FI		VII	
U_ITU	ITU Headquarters	E2		ISØ, IMØ	Sardinia Dilame	RIMV	Fronz Josef Lond	VII	Loccodive Is.
W	Timor-Leste	E3 E4	Eritres Polectine	J2 J3	Djibouti	SØ	Molyi Vysotskij I. Wastern Schoon	VV	India Consola
X, 4Z	breel				Grenada				Conada IISA
A R	Libya	EA-EH FAA-FHA	Spain	J5	Guinea-Bissau	\$2 \$5	Bonglodesh Slovenin	W XΔ-XI	USA Mexico
B H-SI	Cyprus	EAG-EHG FAR-FHR	Balearic Is.	J6 J7	St. Lucia	SS S7		XA-XI XA4-XI4	
H-51 N-50	Tanzania Niceria	FA9-FH9	Centry Is.	18	Bominics St Vincent	57	Seychelles Son Tome & Principe	XA4-XI4	Revilla Gigedo Buskina Fosa
N-5U R-5S		EAY-ENY EI-EJ	Ireland	JA-JS		SA-SM		XU	Combodia
K-35	Medagescar Massitrain	EK EK	Armenia	JA-JS JD1	Japan Minomi-Torishima	SA-SM SN-SR	Sweden Polond	XV	Vertoon
U		FL	Liberio	IDI		SR-SR ST	Sedan	XW.	
V	Niger Togo	EM-EO	Ukraine	JT-JV	Ogesewere Mangolia	SU	Egypt	XX9	Leos Macco
w	Western Samoa	EP-EQ	lion	JW JI-JV	Svalbard	SV/A	Mount Athes	XY-XZ	
X X		ER ER	Holdown	JX	Jon Moven	SV-SZ	Greece	YA YA	Myannar
Y-SZ	Ugando	ES		JY		SV5	Dodecorese	YB-YH	Afghanistan Indonesia
V-6W	Kenyo	H H	Estania Ethiopia	- X	Jorden U.S.A.	575	Code	YI YI	inconesia Iras
Y-ow Y	Senegal Jamaica	EU-EW		KC4	Antenchica Antenchica	T2	Tuvolu	YJ	
0	Yernen	FX	Belorus	KC6	Polau Polau	138	West Kiribeti Is.	YK	Vicnuetu Syrio
P		EY	Kyngzsten	KG4		T31	Rest Kribeti Is.	YL	
0	Lesotho Malawi	EZ	Tajikistan Turkmenistan	KHØ	Guantenamo Bey Marianas Is.	T32	East Kriberi Is.	YN	Latvia Nicaragua
		F F		KH1			Rondon I		
T-7Y P	Algeria Robodos	FG	France Guadelaupe	KH2	Baker & Howland Is. Guarn	T33	Semolia	YO-YR YS	Romenia El Selvador
0	Moldine Is.	FH	Mayotte	KH3	Johnston I.	17	Sen Merino	YT-YU	Serbia & Montenegra
R	Goyona	F)	Saint Martin	KH4	Hidway I.	T8	Print Print	YU3	Service & Montenegro
A .	Greetie	FK	New Coledonia	KHS		19	Bosnia-Herzegovina	YV-YY	
G G	Ghan	FK/C	Chectedield Ix	KHSK	Polymo & Jervis Is.	TA-TC	Turkey	YVB	Venezuelo Aure I
H	Mate	FM.	Matrice 5.	KH6-KH7	Kingman Reef Hawani	TD	Genternén	Y7	Serbio & Montenegro
n l, 9J	Zombia	FO	Austral I.	KH7K	Kore I.	TE	Costa Rico	72	Zimbobwe
K	Koweit	FO	Clipperton I.	KH8	American Somon	TF	losland	73	Macedonia
i.	Sero Leone	FO	Elipperton I. French Polymesia	KH8 KH9	American Somos Wirke I	TG	Scatternala Scatternala	ZA ZA	Macedonia Alberia
MØ	Sprofly Is.	FO	Maraussa I.	KI7	Wase I. Alaska	TI	Costo Rico	ZB2	Aborio Gibraltor
M2. 9M4	Sprony is. West Malarsia	FP	St. Pierre & Miquelon	KP1	Navasa I.	T19	Cocos I.	ZC4	UK Sov. Base on Cyprus
M6, 9M8	East Malaysia	FR	Reunion I.	KP2	Virgin Is.	TJ	Comercian	Z07	St. Helena I.
Mo, YMO N	Neod Neod	FR/F		KP3-KP4	Puerto Rico	TK	Correction	708	St. Reiena I. Avventina I
Q-9T	Democratic Rep. of Congo	FR/G	Europe Is. Glariosa Is.	KP5	Besecheo I.	TL TL	Central African Republic	ZD9	Tristan de Cunho & Gough I:
U-71	Basedii	FR/J	Juan de Nova Is.	LA-UN	Norway	TN	Congo	ZF	Covmon Is.
V	Singapore	FR/T	Juan de Nova II. Tramelin I.	LO-LW	Argenting	TR	Gabon	ZKI	Caymon is. South Cook Is.
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r-9Z	Trinidad & Tobago	FTSW	Som worm	10	South Shelland Is	TU	lvery Coest	7K2	Norm Look Is.
2	Botwono C recogn	FTSX	Kerquelen Is.	LU	South Orkney Is.	TY	Benin	ZK3	Takelau Is.
3	Tango	FTSZ	Amsterdam & St. Paul Is.	LU	South Criticity Is.	TZ	Meli	ZL-ZM	New Zealand
4	Omm	FW	Walis & Futuro Is.	IX.	Lixembourg	UA2	Kaliningred	ZL7	Chetham k
5	Bhuton	FY	French Guiona	LY	Lithuania	UJ-UM	Urbekisten	ZL8	Kernadec Is.
6	United Arab Emirates	6	England	LZ	Bulgario	UN-UQ	Kazokhsten	ZL9	Auckland & Compbell Is.
7	Onles was children	GC	Wales	M	England	UR-UZ	Ukraine	ZP	Pereguay
9	Referen	GD	Ide of Illon	MD	Isle of Mon	V2	Antique & Borbudo	ZR-ZU	South Africa
A-AK	USA	GH	Jersey	MI	Northern Isoland	V2 V3	Amgas & Ecrosco Reize	758	Prince Edward & Morion Is.
P-AS	Pokiston	GI	Northern Ireland	MI	Jersey	V4	St. Kitts & Nevis	1	THE CONGRESS MICHELIS.
r-as 57	Scarborough Reef	GJ	Jersey	MM	Scatland	V5	St. Mrs & Nevs Nombio	_	
3/ T	China Scaroorough Reer	GM	Scotland	MII	Guerraey	V6	Microsesin		
v	Taiwan	GN	Northern Ireland	MW	Wales	V7	Moranesa Merchallis	_	
V9P	Protos I.	GP	Guernsey	N N	USA	V8	Brunei, Dorussolam	_	
Y		GS	Scotland	OA-OC		VE		-	
2	China Name	GS	Scotland Isle of Man	OA-OC	Peru Lebanon	VK VE	Canada Arctrolin		
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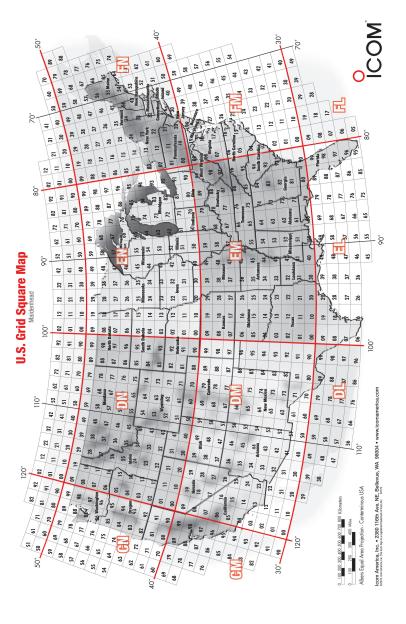
BAND PLAN FREQUENCY ASSIGNMENTS

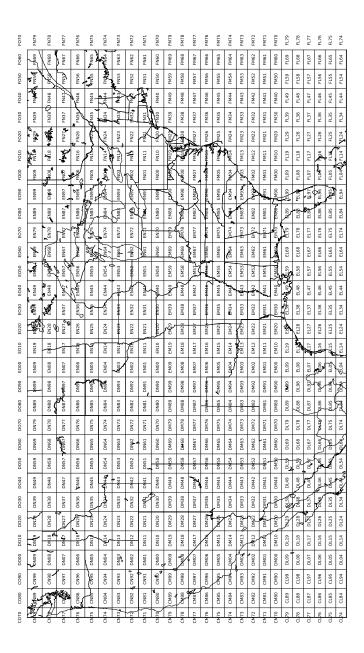
Kf:	Use	MHz	Use	MHz	Use	146.61-146.97 Repeater outputs
1246-1248	ATV #1 Narrow-bandwidth FM point-to-point links and		ATV repeater or simplex with 421.25 MHz video corrier control links and experimental	904-906 906-907	Digital communications Namow bandwidth FM-simplex services, 25 kHz channels	ARRL 2 Meter Wavelength Band Plan, 144-148 MHz (con
1248-1252	digital, duplex with 1258-1260 MHz Digital communications	426.00-432.00	ATV simples with 427.250 MHz video corrier frequency FMF (Farth-Moon-Farth)	906.50 907-910	National simplex frequency FM repeater inputs paired with 919-922 MHz: 119 pairs	147.00-147.39 Repeater outputs
	ATV #2	432.08-432.10	Washeinsol CW		every 25 kHz: e.g., 907.025, 907.050, 907.075, etc.	147.42-147.57 Simplex
258-1260	Nerrou-hendwidth FM point-to-coint links and	432.100	70 cm CW/SSB calling frequency		908-920 MHz unspordingted pair	147,60-147,59 Repeater inputs
	Narrow-bandwidth FM point-to-point links and digital, duplexed with 1246-1252 MHz	432.10-433.00	Mixed-made and weak-signal work	910-916	ATV	ARRL 6 Meter Wavelength Band Plan, 50.0-54.0 MHz
260-1270	Satellite unlinks		New beacon band	916-918	Digital communications	Mfg Use
260-1270	Wide-bandwidth experimental, simplex ATV	433.00-435.00	Auxiliary/repeater links	918-919	Nanow-bandwidth, F.M. control links and remote bases	50 000-50 100 CW and beacons
270-1276	Repeater inputs, FM and linear, paired with	435.00-438.00	Satellite only uplink/downlink	919-922	FM repeater outputs, paired with 907-910 MHz	E0.040.E0.080 II.S I
	1282-1288 MHz, 239 pairs every 25 kHz,	438.00-444.00	ATV repeater input with 439.250 MHz video	922-928	Wide-bandwidth experimental, simplex ATV, Spread Spectrum	50 100-50 A00 SSR
	e.g., 1270.025, 1270.050, 1270.075, etc.,		corner frequency and repeater links		Wavelength Band Plan, 144-148 MHz	50.125 SSB DX colling frequency
	1271.0-1238.0 MHz uncoordinated test pair	442.00-445.00	Repeater inputs and outputs (local option)	MHz	Use	50.200 SSB domestic colling frequency (Note: Suggest
	ATV #3	445.00-447.00	Shared by auxiliary and control links, repeaters	144.00-144.05	EME (CW)	QSY up for local & down for long-distance QSQs)
	Repeater outputs, paired with 1270-1276 MHz		and simplex (local option); 446.00 MHz national	144.275-144.300	Proposition beacons	50.400 AM calling frequency
288-1294 294-1295	Wide-bandwidth experimental, simplex ATV Namow-bandwidth F.M. simplex services.	447.00-450.00	simples frequency	144.06-144.10	General CW and weak signals	50.600-51.000 Experimental and special modes
1279-1275	namon-senewarn r.w. simplex services, 25 kHz channels	447.00-450.00	Repeater inputs and outputs		EME and weak-signal SSB	50.700 RTTY calling frequency
	National FM simplex colling frequency	APRI 33-m V	lavelength Band Plan, 902-928 MHz	144.200	National SSB calling frequency	50.800-50.980 Radia Control (R/C) channels, 10 channels spor
295-1297	Narrow bandwidth weak-signal communications (no FM)	MHz	Use	144.200-144.275	General SSB operation, upper sideband	20 kHz aport (new)
295 0.1295 8	SSTV, FAX, ACSB, experimental	907-904	Nanow-bandwidth, week-signal communications	144.275-144.300		51.000-51.100 Poofic 0X window
295 8-1294 0	Reserved for EME. CW expansion	902.0-902.8	SSTV. FAX. ACSB. experimental	144.30-144.50	OSCAR subband plus simplex	51.000-52.000 Newly authorized FM repeater allocation
296.0-1296.05	FMF enclosive	902.8-903.0	Reserved for EME. CW expension		Linear translator autputs	51.100-52.000 FM simplex 52.000-52.050 Pocific DX window
296.07-1296.08	CW beggers	903 0-903 05	FMF exclusive	144.60-144.90	FM repeater inputs Week signal and FM simples	52,000-53,000 FM repeater and simplex
296.1	CW, SSB calling frequency		CW hearnes	146 10 146 20	Linear translator outputs plus packet	53,000-54,000 Present radio control (R/C) channels. 10 chann
296.4-1296.6	Crossband linear translator input	903.1	CW. SSB colling frequency	145.10-145.20	FM repeater outputs	spood 100 kHz oper
296.6-1296.8	Crossband linear translator output	903 4-903 6	Crossband linear translator inputs	145.20-145.30	Miscelaneous and experimental modes	Aprille 100 kill april
296.8-1297.0	Experimental beacons (exclusive)	903.6-903.8	Crossband linear translator outputs	145.80-144.00	OSCAR subband — satellite use only!	0
1297-1300	Digital communications	903.8-904.0	Experimental beacons exclusive	146.01-146.37		



Α	Alpha	N	November
В	Bravo	0	Oscar
С	Charlie	Р	Papa
D	Delta	Q	Quebec
Е	Echo	R	Romeo
F	Foxtrot	S	Sierra
G	Golf	Т	Tango
Н	Hotel	U	Uniform
I	India	V	Victor
J	Juliet	W	Thiskey
K	Kilo	Х	X-ray
L	Lima	Υ	Yankee
М	Mike	Z	Zulu

QRG	Your exact frequency (or that of) iskHz.	Will you tell me my exact frequency (or that of)?
QRL	I am busy (or busy with).	Are you busy? (Used to ask if frequency is in use)
QRM	Your transmission is being interfered with (1–5).	Is my transmission being interfered with?
QRN	I am troubled by static (1-5).	Are you troubled by static?
QRO	Increase power.	Shall I increase power?
QRP	Decrease power.	Shall I decrease power?
QRQ	Send faster (wpm).	Shall I send faster?
QRS	Send more slowly (wpm).	Shall I send more slowly?
QRT	Stop sending.	Shall I stop sending?
QRU	I have nothing for you.	Have you anything for me?
QRV	I am ready.	Are you ready?
QRX	I will call you again at (onkHz).	When will you call me again?
QRZ	You are being called by (onkHz).	Who is calling me?
QRZ QSB	You are being called by (onkHz). Your signals are fading.	Who is calling me? Are my signals fading?
		-
QSB	Your signals are fading.	Are my signals fading?
QSB QSK	Your signals are fading. I can hear you between signals.	Are my signals fading? Can I break in on your transmission?
QSB QSK QSL	Your signals are fading. I can hear you between signals. I am acknowledging receipt. I can communicate with direct (or via	Are my signals fading? Can I break in on your transmission? Can you acknowledge receipt? Can you communicate with direct or by
QSB QSK QSL QSO	Your signals are fading. I can hear you between signals. I am acknowledging receipt. I can communicate with direct (or via).	Are my signals fading? Can I break in on your transmission? Can you acknowledge receipt? Can you communicate with direct or by relay?
QSB QSK QSL QSO QSP	Your signals are fading. I can hear you between signals. I am acknowledging receipt. I can communicate with direct (or via). I will relay to	Are my signals fading? Can I break in on your transmission? Can you acknowledge receipt? Can you communicate with direct or by relay?
QSB QSK QSL QSO QSP QST	Your signals are fading. I can hear you between signals. I am acknowledging receipt. I can communicate with direct (or via). I will relay to General call to all amateurs (CQ ARRL).	Are my signals fading? Can I break in on your transmission? Can you acknowledge receipt? Can you communicate with direct or by relay? Will you relay to?
QSB QSK QSL QSO QSP QST QSX	Your signals are fading. I can hear you between signals. I am acknowledging receipt. I can communicate with direct (or via). I will relay to General call to all amateurs (CQ ARRL). I am listening to onkHz.	Are my signals fading? Can I break in on your transmission? Can you acknowledge receipt? Can you communicate with direct or by relay? Will you relay to? Will you listen to onkHz?
QSB QSK QSL QSO QSP QST QSX QSY	Your signals are fading. I can hear you between signals. I am acknowledging receipt. I can communicate with direct (or via). I will relay to General call to all amateurs (CQ ARRL). I am listening to onkHz. Change to another frequency (orkHz).	Are my signals fading? Can I break in on your transmission? Can you acknowledge receipt? Can you communicate with direct or by relay? Will you relay to? Will you listen to onkHz? Shall I change to another frequency?
QSB QSK QSL QSO QSP QST QSX QSY QTC	Your signals are fading. I can hear you between signals. I am acknowledging receipt. I can communicate with direct (or via). I will relay to General call to all amateurs (CQ ARRL). I am listening to onkHz. Change to another frequency (orkHz). I have messages for you (or for).	Are my signals fading? Can I break in on your transmission? Can you acknowledge receipt? Can you communicate with direct or by relay? Will you relay to? Will you listen to onkHz? Shall I change to another frequency? How many messages have you to send?





Prosigns

AR	End of message	Often sent as "di-dah-di-dah-dit" (•-•-•)
AS	Stand by	"di-dah-di-di-dit"; used to ask someone to wait
BK	Break	Used to invite the other station to transmit immediately
ВТ	Separator	Break between thoughts or paragraphs ("dah-di-di-di-dah")
CL	Closing down	Used when signing off the air permanently or for the day
CQ	Calling any station	General call: "di-dah-di-dah" then "dah-dah-di-dah"
СТ	Start of message	Used to begin formal traffic messages
EE	Error	Correcting a mistake; usually sent as "di-di-di-di" rapidly
K	Go ahead	Invitation for the other station to transmit
KN	Go ahead, named station only	Stronger version of K—only the called station should respond
R	Roger (message received)	Confirms receipt of last transmission
SK	End of contact	"Silent Key"; final sign-off (di-di-di-dah-di-dah)
SN	Understood	Used in formal message handling (equivalent to "QSL" or "Roger")

SSB

A (Calling CQ): "CQ CQ CQ, this is K1ABC, Kilo One Alpha Bravo Charlie, calling CQ and standing by."

B (Responding): "K1ABC, this is W2XYZ, Whiskey Two X-ray Yankee Zulu."

A: "W2XYZ, good afternoon, you're 59 here in Boston, Massachusetts. Name is John, Juliet Oscar Hotel November. Back to you, W2XYZ from K1ABC."

B: "Thanks John, you're 59 as well in New Jersey. Name is Mike, Mike India Kilo Echo. Nice to meet you, John. K1ABC, this is W2XYZ."

A: "Very good Mike, thanks for the QSO. 73 and have a great day. K1ABC is now clear."

SSB Contest

Activator (A) calling: "CQ POTA, CQ Parks on the Air, this is K1ABC, Kilo One Alpha Bravo Charlie, calling CQ POTA and standing by."

Hunter (B) responds: "K1ABC, this is W2XYZ."

Activator (A): "W2XYZ, you're 59 into park K-1234."

Hunter (B): "Thanks for the 59. You're 57 in New Jersey. 73!"

Activator (A): "Copy the 57 New Jersey. Thanks for hunting! QRZ, this is K1ABC, park K-1234."

CW

A (Calling CQ): "CQ CQ CQ DE K1ABC K1ABC K1ABC K" (Calling any station, this is K1ABC, standing by)

B (Responding): "K1ABC DE W2XYZ W2XYZ K" (K1ABC, this is W2XYZ, over)

A: "W2XYZ DE K1ABC UR 599 IN MA. NAME JOHN. HW? W2XYZ DE K1ABC K" (You're 599 in Massachusetts. My name is John. How do you copy?)

B: "K1ABC DE W2XYZ R UR 589 IN NJ. NAME MIKE. RIG KX3, 10W. WX SUNNY. K1ABC DE W2XYZ K"

(Roger, you're 589 in New Jersey. My name is Mike. My rig is a KX3 running 10 watts. Weather is sunny.)

A: "R TNX MIKE. 73 ES HPE CUAGN. W2XYZ DE K1ABC SK" (Roger, thanks Mike. Best regards and hope to see you again. Signing off.)

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