

Results, Tenth IARU HF World Championship

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24 hours of contest propagation just like the "good old days"!

Wow! This year's IARU contest was not what any of us expected. It was incredible! July never brings great conditions, and around this point of the sunspot cycle, they're usually even worse. Not this year! We had—great, wonderful, incredible, unbelievable (take your pick of adjectives here)—propagation. Who would have expected to run Europeans on 15 meters in July? Or to make as many contacts as they did on 10 meters? Heck, we didn't have conditions like these in the DX Contest back last winter! We may not even know what happened, but to tell the truth, who cares! The bands were great, and we made the most of it! It wound up being a hot contest for a hot weekend!

Participation was up nearly 10% this year, and that sure helped. Either a lot of folks stumbled onto the contest by accident, or operating events like these are attracting more and more people. We heard from a lot of "first-timers" this year. Is it the shorter time period that makes the difference? Does summer bring a different crop of contestants? Comments were favorable (with a lot less complaints!) about the operators and the operating.

Twenty meters being open during the entire contest was a major attraction, but the big propagation story has to be the 15 and 10-meter bands. Were they open where you are? More importantly, did you remember to check them, or did you just write them off as unusable? Most of the top European folks were able to rack up anywhere from 200 to 400 QSOs on 10 meters, and totals of 600 to 1000 QSOs on 15 meters were not uncommon.

Admittedly, it wasn't as good here in the US and Canada—but you should have been able to make at least 50 QSOs or so on 10, if you were lucky; and some folks had QSO totals on 15 meters in excess of 300. If you were running with the pack on 20 and 40 and didn't think to check 10 or 15, you should know better by now! It's experiences like these that differentiate between the top contestants and the rest of us. Who would have known you'd be able to work folks on those bands? They sure knew!

Another thing that sure helped boost scores were all those IARU HQ stations on the air this year. You should have been able to log a handful—after all, 27 of them were active, and 22 submitted logs. The

Hungarian crew at MRASZ kept their long-standing win streak intact, easily topping anyone (and anything) the other societies could throw at them. The "We Try Harder" competition for number 2 took a twist this year, though. Perennial runners-up DA0HQ found themselves slipping to fifth, with the Slovaks at OM5HQ, the Ukrainian operation at EM5HQ, and the Romanian ARF's YR0A all putting forth excellent efforts. ARRL's Headquarters station, W1AW, also did extremely well this year, making the most QSOs but finishing eighth, with 6.8 million

points. For a blow-by-blow description, check out the sidebar. "The Way to Win at W1AW." Our thanks to our IARU sister-societies everywhere for helping to make this contest successful. It sure pays now to do a little multiplier hunting for the HQ folks.

Speaking of winning streaks, we saw another long-standing one broken in the Mixed Mode category: Rad, YU1RL, went to EA9IE and stopped Gyozo, HA0MM, in his tracks! Just when you thought you could win with 2 million points, he comes in and makes almost 3 million! Henry, YT1AD, wasn't too



John, WB2K, may not have a lot of awards mounted on the wall, but he sure nailed down the top spot in the WVE phone-only competition.

Top World Scores

Mixed Mode		CW Only	
Call	Score	Call	Score
EA9IE	2,911,184	HA0DU	1,877,533
[YU1RL,op]		RZ9U	1,508,557
HA0MM	1,977,150	(RZ9UA,op)	
YT1AD	1,970,724	S59AA	1,374,208
UT5UGR	1,765,752	C47W	1,358,516
TM1C	1,669,920	(SB4WN,op)	
(G0JFX,op at F6CTT)		YT50BB	1,223,586
UA3RAR	1,588,825	(YT1BB,op)	
KF3P	1,500,736	N2IC/O	1,203,734
S53R	1,305,103	P40Z	1,188,382
LY6M	1,272,154	DH1NOR	1,120,580
(LY1DS,op)		SL0CB	1,098,165
OH8WZ	1,239,249	(SM0TX,op)	
		W1WEF	1,070,388
Phone Only		Multioperator	
Call	Score	Call	Score
UT5DK	1,462,344	UU5J	2,702,612
OH1EH	1,416,524	RS3A	1,885,816
OH6LNI	1,104,752	IR4T	1,937,796
5N0MVE	846,264	RY6Y	1,790,712
EM0F	834,677	RK9XWH	1,481,395
(UX0FF,op)		RU3A	1,466,630
DL8PC	826,619	RW0A	1,400,352
LY1DT	759,744	WX0X	1,379,858
5N0GC	755,780	HG5M	1,359,299
S59L	742,350	RU9D	1,272,556
WB2K	729,904		

Top WVE Scores

Mixed Mode		CW Only	
Call	Score	Call	Score
KF3P	1,500,736	N2IC/O	1,203,734
KF0H	932,252	W1WEF	1,070,388
AA4NC	919,512	K3ZQ	1,006,934
K0JL	676,021	WX0B	790,400
(AA0BY,op)		(NM5M,op)	
KZ1M	577,729	K4PQL	724,196
WZ4F	558,888	K7SV	633,879
WX9E	518,122	N6TR	618,288
(et KS9B)		K2SX/1	601,735
N9AG	513,472	K8GL	588,034
K3WW	507,758	AA4NU	578,816
N5EA	411,152	(K0EJ,op)	
Phone Only		Multioperator	
Call	Score	Call	Score
WB2K	729,904	WX0X	1,379,656
WS1A	602,030	KN2T	1,148,904
W3BGN	526,560	N3BB	1,059,122
K4VUD	489,375	W5WMU	1,010,316
WA7FOE	486,552	K9SD	798,187
VE6JY	473,434	NC0P	689,123
N4UH	380,258	KA4RRU	605,885
KB4WOO	370,384	WT2Q	602,426
WB2NOT	365,860	W0AIH	580,152
K8SVL	296,055	N3KZ	520,864

IARU Headquarters Stations

<p>HG95HQ (HA1s FF,WD,YA,HA2RX,HA4YD,HA5s AWH,BGG,BSW,BWW,COA,FM,GF,IW,KS,KN,ML,NG,OM,TI,UA,WE,YN,ZD,HG5s CCC,CNC,HA6s DX,FQ,GK,IA,B,ND,NF,NL,NO,NY,OB,OI,OQ,OY,PN,PX,BA,VH,W,WP,WQ,WX,ZS,ZV,HG6I,PO,HA7s JES,PO,RY,VB,HA8s IB,IE,HA9AX,ops)</p>	9,287,492	9348	314
<p>OM5HQ (OM3s JW,KAG,KAP,KCM,KFF,KII,KZY,RJB,RKA,RMM,ops)</p>	8,095,005	6517	305
<p>EM5HQ (US1s IDX,ITU,UT2s IA,II,IJ,IM,JO,IV,UR3IKY,UR5IFZ,UT5IZO,US8ISC,UT8s IA,IM,UX8IX,US-1-602,-603,-700,ops)</p>	8,052,860	7804	274
<p>YR0A (YO2s AOQ,ARA,AVM,BBT,BEO,BP,CBF,DFA,GL,YD3s APJ,BWK,CDN,FF,FRI,FU,FWC,ATW,HW,NF,SI,XF,YD4s ATW,HW,NF,SI,XF,YO5s CUQ,DMB,TE,YO6s AWR,FUE,YO7UP,YO8s AXP,BAM,BIG,CT,EQ,WV,ops)</p>	7,918,772	7659	284
<p>DA0HQ (DL1s ASA,AUZ,AWI,DTL,EMY,DK2OY,DL2s EBY,HTO,MEH,OFB,DL3s APO,DXX,OI,RMA,DL4s MM,RD,J,DL5s ANT,ACM,ATD,AXX,XU,DK6WL,DL8MYL,DF7RX,DJ7AA,DL7s UTA,VNF,VOA,DL8s HWA,MVG,DL9AWL,ops)</p>	7,258,628	9233	292
<p>S50HQ (S50s A,R,S51s AY,IX,OI,ZO,S52ZO,S56A,S57s AL,O,W,S58s A,AB,FA,S59A,ops)</p>	7,022,968	7789	298
<p>SP0HQ (SP2s EBG,FWC,SP3s ASN,GEM,HLM,RBI,RBR,SP5s BYY,INO,JTM,SP6s CZ,HED,HFZ,VGP,XRZ,SP7GIQ,SP8NR,SP9s EIJ,IUM,ops)</p>	6,882,645	7305	295
<p>W1AW (K1s CC,KI,TO,ZZ,W1s OD,FM,AAZZ,K5FUV,N6BV,ops)</p>	6,839,532	9745	252
<p>LZ7A (LZ1s GL,LF,MC,PJ,ZD,LZ2s JE,UU,ZF,LZ3s FN,FM,GU,LZ4s AX,ZF,ops)</p>	3,440,310	4872	246
<p>ER7A (ER1s AP,DA,M,DO,ER3s AL,DX,ED,KS,OO,ZZ,ER5s AA,AL,DX,OK,WU,ops)</p>	1,478,750	2792	169
<p>YU0HQ (YU7s AV,BJ,GD,GW,NF,NW,YZ7UN,4N7DW,ops)</p>	1,214,748	2396	153
<p>IY2AR1 (I2MQP,IK2VJF,ops)</p>	1,031,240	2000	145
<p>SK3HQ (SM3s CER,DMP,RAB,ops)</p>	821,548	1627	143
<p>LT4E (LU2BDG,LU4AHV,LU6BEG,LUBAQE,ops)</p>	683,410	1139	130
<p>GB5HQ (G1ADF,G3TRU,G4WSE,G0s DBE,IEQ,KXL,PZO,STU,WAB,ops)</p>	647,946	1485	142
<p>BJ3XHQ (JA3s MAU,SVG,JP3EIG,JG3RPL,JH3HOA,JI3s ERV,XOM,JJ3WPF,JP3s DZA,TEN,JQ3HDD,ops)</p>	325,688	1313	64
<p>4V100RC (HH2s B,JO,JR,ops)</p>	239,846	2758	87
<p>LX0RL (LX1s KQ,TI,ops)</p>	204,972	706	87
<p>LY1RMD (LY1DC,op)</p>	189,288	735	99
<p>XJ7RAC (VE7SBO,op)</p>	129,356	452	73
<p>HBBA (HB9DDZ,op)</p>	74,998	372	77
<p>Z30RSM (+ops)</p>	33,762	862	51

far behind HA0MM in the race for second, either, falling just 7k short. Whew! It's pretty obvious to us that one way to ensure a good score is to be in one of those locales with a direct shot to Europe.

These folks weren't the only ones to turn in great scores. Tyler, KF3P, came out of nowhere to win the US mixed mode, and John, WB2K, jumped up a couple of spots to win on phone. Steve, N2IC/O, had the best of both worlds: not only were the bands (especially 20) open to Asia, but he was able to work Europeans, too! That was enough for first place WVE on CW!

So, are you feeling lucky? Out for blood? Or just looking for a good excuse to get out of the hot July sun? Whichever way you feel, the next IARU HF World Championship is only a couple of months away—July 13-14. Why, it'll be here before you know it. In fact, the IARU records are now available in the new *ARRL Contest Yearbook*. What better way to motivate yourself to get on the air?

SOAPBOX

I wasn't able to work the entire contest, but did enjoy picking here and there. I also found that the conditions from this area weren't too bad for this part of the sunspot cycle (KL7Y). This was our team's first effort from Alaska, but we'll be in there during the next contest (KL7/DF4ZY). The band conditions were not that great, but still enjoyable. There certainly was a dearth of Western European stations. Thank goodness there were a lot of Russian stations on the air to fill the gaps. This was a great contest, though (VE3CWE). This was my first IARU contest and I had so much fun that I will be back for the next one (VE9ZL). I was able to make about the same amount of contacts as last year. The bands did not seem as active as they were last year. It certainly seemed good to see all of the Headquarters stations on the air (N4TQO). I am 14 years old and I have been a ham for one year. These were the best band conditions I've ever operated in. I'm looking forward to participating in the contest next year (AC6NS). I only had a few hours to participate in the contest but hope to put an honest effort in next year (K7OX). This was a limited operation for me due to a busy schedule, but I still had a lot of fun (N6TR). This is an excellent contest for those that have a modest station and I wish I had had more time to operate (N7ENU). The propagation was just good enough to let you know that the stations were out there, but not good enough to copy them well. The multipliers just were not there, and again this year there were very few Central and South American stations heard (N5EA). It certainly was a hot contest, as it was 93° in the shack. My air conditioner bit the dust on Friday evening before the contest and I didn't

get back on line until late Saturday afternoon, but the contest was already 10 hours old by that point (N5NMX). This is a fantastic contest and the rules are terrific. The propagation conditions were excellent and I'll be back for the next contest (N3BB). The only thing that I have ever done is CW ragchewing. This was my first contest and I found it a great deal of fun—I'll be back for next year's (KG0KR). The contest was superb and it seems that summertime conditions during the sunspot cycle minimum were excellent (K7SV). This is one of my favorite contests and I had a lot of fun (N25O). I worked with only 100 W, and, considering the sunspot cycle, I was very satisfied with the responses that I received—especially since this was only my second contest (KB8QO). This was a great time and a great contest, and 20 meters was still the workhorse, as usual. Any one who misses this contest is missing a summer classic (K8GJ). I find that when the conditions are right this contest is more fun than any other. Conditions were more than right, they were superb on all bands for the entire period. Thanks to the Russians and Europeans for their usual good showing (N9AG). This was my first IARU contest and it positively will not be my last (N9XBM). This was my first attempt at this contest and it took a while to realize that the multipliers are more important than the contacts. I never thought I'd work that many stations from my own zone and in between the DX stations. There were good band openings and strong signals, but not like the big sunspot days. I look forward to a bigger score next year, somehow (KJ9C). This was a great contest, considering that the band conditions were not very good. There was lots of activity (AA9BJ). This was my first contest and I found it really exciting and fun to operate. I plan to enter it again next year (XE2CWW). It was a great pleasure—I enjoyed a very good time in this contest and appreciated being able to participate (XE2Z). The conditions this year were again excellent and the only problem that I had was with my 160-meter dipole just before the contest (OH6NIO). I tuned up and down the bands looking for a VK or ZL on several bands but without any luck. There was a great opening on 20 meters to W6 in the morning here and this allowed me to better my scores over the past couple of years (OZ5EV). This was my first time operating in the contest because of my busy schedule and I enjoyed the time that I operated CW (OH6YF). This is one of the most pleasant contests of the year, and it was a pleasure to work all six bands (SM4BTF). This was an excellent contest and I enjoyed it very much. I look forward to next year's (UA1PAC). My time was limited, but I was able to make a few contacts and make a few people happy with the points from my area. I will be back next year and hope to do better (PA3AEB). This is my very best contest effort of the year and I enjoyed it very much (F5JBR). There seemed to be quite a bit of activity on the bands. I would like to have a stacked array, but you have to do the best with what you have. I enjoyed the contest except around 0500Z, when the pain really set in (G0LH). This was my first contest alone and I enjoyed it very much (PA3EX). This has always been a very pleasant contest (ON5CZ). There was lots of activity, plenty of big signals and lots of fun in this contest (PA3DWJ). This year the contest was a real summer sizzler, it was 30° C outside and 40° C inside the



Mario, 5B4WN, operating C47W, should have been an easy Zone 39 multiplier!



Need Vietnam? Nikolai, 3W5FM, handed out a few QSOs.

shack. The propagation was excellent on 20 meters and held in there all night long. I know that I will be back next year to try and break my previous record (DL3KDV). This was a great contest but I was handicapped by a visit by my mother-in-law (DL7ANQ). I really enjoy low-power contesting, and so did my neighbors (S57U). I really enjoyed the contest and especially working 15 meters (SOSTW). This was a most enjoyable contest and I was able to work my first Americans on 40 meters with only 15 W (SP2WDW). This was an excellent contest and I enjoyed it very much (SP9MDY). I am 15 years old and visually impaired. I enjoyed the CW part of the contest (SQ9BZK). This was a very exciting contest, but I found 10 and 15 lacking during most of the time (Y05BQ). This was my 18th IARU contest and it was just as exciting as the first one that I entered (YU7SF). Murphy hit twice during the contest. I had to repair the amplifier and lost nearly an hour in the process. Despite the problems, I had fun. There was a great opening to the West Coast on Sunday morning (LY6M). This was an exciting contest and the activity was better than last year (UTSUGR). This was a superb contest. We didn't sleep for 24 hours. There was great activity from the USA and Europe but we didn't hear anything from Japan (RS3A). This was my first contest after serving my required time in the Army. I enjoyed being a civilian, but I especially enjoyed the contest (UA4AVN). There was strong QRN on Saturday night and it left me with a low score on 40 meters. The only ones that I could work were the big guns, but I was compensated by an excellent opening on 10 meters (EA3EJ). The propagation was not too good to this part of the world, but I still enjoyed the contest and I know I will be back (7K2DOD). I found the conditions on 40 and 20 meters to be excellent. It was great to work many fine USA stations. I tried using the computer to key the rig, but it was very hard to get used to (JH0GHZ). I only had a few hours to enjoy the contest from the field, but it was fun under these conditions (J13KOH/3). I used only a 6-foot-long, 10-foot-high whip antenna. Even though my station was a weak one, there were many stations that heard me and it made for an exciting contest for me (JL7PVR/1). The propagation was just barely good on 20 meters, which I enjoyed even though I only operated during the last half hour of the contest. It was the signals from W1AW that piqued my interest to join the contest (JF1SQC).

Feedback—1994 IARU HF World Championship

See February 1995 QST, pp 100-104. WB2K's score was 820,068. This made him the Eastern Pennsylvania CW leader, as well as fourth place W/VE and seventh place overall. WX9E was left out of the results for Illinois. His line score was 35,640-204-60-A.

The Way To Win At W1AW

Well, not exactly. This year's ARRL effort was a bit different than those of the past—rather than trying to deal with the limited resources (and limited space) at W1AW, this year the show went on the road—to the superstation of Tom, K1KI. Tom says, "Our basic goal was to put more QSOs into the W1AW log than in previous years, and we sure met our goals! Conditions were much better than we expected—it's hard to believe we made nearly 10,000 QSOs in 24 hours."

So they may not have won, but they sure had one whale of a time! Without any further ado, here's a band-by-band (and blow-by-blow) description of what it was like, through Tom's eyes:

"We didn't spend enough time on 160. We timeshared this band with 80 CW, and the rates were better on 80. We heard several European HQ stations we couldn't work because of QRM. Our last European QSO was at 0415Z with TM1C (shortly after their sunrise).

"We worked our first European on 80 at 2330Z, and our last at 0445Z. It was pretty noisy all night. We worked KL7Y at 0830Z. We were able to keep USA runs going all day long—it was sort of like Sweepstakes!

"On 40, the band was open to Europe from 2115 to 0604Z. We worked a couple of JAs, but conditions were not so good—we stole the SSB amplifier for 80 CW Saturday evening. 5W1AU QSYed from 20 to 15 to 40 for us, but he had no key and the SSB QSO through the broadcast QRM was difficult, especially for a dedicated CW operator!

"We didn't work our first European on 20 meters until QSO number 48, but they were there for almost 24 hours. The USA runs were longer and louder, however. The JA run Sunday morning was just like the good old days! After working an HL, we asked if there was a DU on frequency, and DU1SSG called in.

"On 15 meters, the Europeans were weak most of the day, but they kept calling. We must have worked enough W4 QSOs for the Worked All W4 Award. After 0600Z (2 AM, local time!) the VKs faded, and the Europeans came back in through the end of the contest. We worked a few JAs and got ready for a big JA run that ended with just six JA QSOs.

"I'm certain that we qualified for the Worked Almost All Newcomers Award on 10 meters. There seemed to be an endless list of KE4xxx QSOs, but it was actually only 50 (plus two KF4xxx stations). Midnight brought a pipeline into W9 and we sent people from 20 and 15 to 10. We even found KH6, FO, and VK! The rate dropped below 20 at 0645Z, so we got some sleep and started up at 1000Z with some more European stations.

"Our rate for the entire contest was 409; our best hour (1447Z to 1547Z) had 707 QSOs, and our best minute was 1538Z, when we made 19. We didn't get much help from packet, but it all adds up. We also found out that there are limits as to how many amplifiers (six at 1400 W) can run off my two 220-V circuits. We popped the breakers three times.

"Out of the 9821 QSOs (including duplicates), we worked 6689 unique call signs. Nothing beats working people who say that they've been a ham for 40, 45, 50 or more years and never worked W1AW before. It was really fun! We can do better next time!"



Here's the number one Multioperator team at UU5J: (l-r, sitting) UU5JR, UU5JQ, UB7-087-2; (l-r, standing) UU3JD, UU2JZ, and UU4JDF.



If S50HQ was one of your multipliers, you surely must have worked one of these ops: (l-r, first row) S58A, S51ZP, S55T, S52ZW, S51IX, S56A; (l-r, second row) S59A, S57W, S51OI; (l-r, third row) S51DB, S50A, S52EZ, S58AB; (l-r, back row) S51RS, S57O, S50R, S51AY, S58FA.

Scores

Scores are listed by ITU zone and then by country, ARRL section or Canadian province within the zone. Line scores indicate call sign, final score, QSOs, multipliers and entry class (A = single operator, mixed mode, B = single operator, phone only; C = single operator, CW only; D = multioperator, single transmitter).

Zone	Country/Region	Call Sign	Score	QSOs	Multipliers	Entry Class
Zone 1	Alaska	AA7FL	17,748	105	36	C
		N7ENU	15,295	121	35	C
		KL7FY	216,039	601	101	A
		KL7FAP	2,223	39	19	A
		WL7CFM	39,292	279	38	B
		KL7DF42Y (+N7DLU,DL8WEM)	151,689	857	59	D
		VE6FR	69,188	320	66	A
		VE8JY	473,434	844	139	B
		VE8BF	213,213	627	91	C
		VE7QO	109,986	394	69	A
XJ7CFD	113,152	550	64	B		
VE7JMN	96,748	381	76	B		
VE7TLX	55,500	303	60	B		
VE7XO	35,896	171	56	B		
Zone 2	Alberta	VE6FR	69,188	320	66	A
		VE8JY	473,434	844	139	B
		VE8BF	213,213	627	91	C
		VE7QO	109,986	394	69	A
		XJ7CFD	113,152	550	64	B
		VE7JMN	96,748	381	76	B
		VE7TLX	55,500	303	60	B
		VE7XO	35,896	171	56	B
		VE4YU	29,640	168	52	A
		VE2AWR	60,705	411	45	A
VE2FFE	612	36	6	C		
N0TT/VE2 (+W0HW)	177,912	716	76	D		
Zone 3	Manitoba	VE4YU	29,640	168	52	A
		VE2AWR	60,705	411	45	A
		VE2FFE	612	36	6	C
		N0TT/VE2 (+W0HW)	177,912	716	76	D
		VE3CWE	50,337	223	63	A
		VA3WTO	223,223	719	91	B
		VE3STT	2,520	48	18	B
		VE3ZIS	6	6	3	B
		VE3KP	283,316	791	98	C
		VE3NBE	10,106	85	38	C
VE3XO (+VE3s MV, WHE)	464,578	901	134	D		
XJ3AT (+NET)	304,759	903	91	D		
VA3NR (+NET)	28,985	175	55	D		
Zone 4	Quebec	VE2AWR	60,705	411	45	A
		VE2FFE	612	36	6	C
		N0TT/VE2 (+W0HW)	177,912	716	76	D
		VE3CWE	50,337	223	63	A
		VA3WTO	223,223	719	91	B
		VE3STT	2,520	48	18	B
		VE3ZIS	6	6	3	B
		VE3KP	283,316	791	98	C
		VE3NBE	10,106	85	38	C
		VE3XO (+VE3s MV, WHE)	464,578	901	134	D
XJ3AT (+NET)	304,759	903	91	D		
VA3NR (+NET)	28,985	175	55	D		
Zone 5	Ontario	VE3CWE	50,337	223	63	A
		VA3WTO	223,223	719	91	B
		VE3STT	2,520	48	18	B
		VE3ZIS	6	6	3	B
		VE3KP	283,316	791	98	C
		VE3NBE	10,106	85	38	C
		VE3XO (+VE3s MV, WHE)	464,578	901	134	D
		XJ3AT (+NET)	304,759	903	91	D
		VA3NR (+NET)	28,985	175	55	D
		VE6EQ	53,380	470	34	B
K16OY	5,500	66	25	B		
Zone 6	East Bay	K6GLF	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 7	West Texas	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 8	Santa Barbara	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 9	Santa Clara Valley	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 10	Sacramento Valley	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 11	San Diego	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 12	San Diego	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 13	Brazil	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 14	Chile	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 15	Argentina	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 16	Argentina	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 17	Iceland	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL	20,102	151	38	C
N6IC	14,840	107	40	C		
W6SX	176	16	4	C		
N6MI (+K5TTE)	181,487	597	97	D		
Zone 18	Norway	VE6EQ	53,380	470	34	B
		K16OY	5,500	66	25	B
		K6JHO	116,224	508	72	A
		K16WT	53,314	268	61	A
		K6CX	40,883	179	59	A
		K6SVL	296,055	1035	81	B
		K6GYX	242,648	792	98	B
		NA2D	11,515	105	35	B
		N6IBP	20,633	112	47	C
		N6GL				

RZ0LWA (RA0LSO,RW0LMF, UA0LHT,ops) 44,838 236 53 D

Zone 36

Madeira Islands

CQ3B (CT3EE, op) 657,597 1245 109 B

Azores

CU3FQ 167,172 833 95 B
CU3AV 54,050 371 50 B

Canary Islands

EABDXD 3,088 52 22 B

Zone 37

Spain

EA7DPU 245,300 667 110 A
EA2CR 11,211 102 37 A
EA1UX 326,605 1008 95 B
EA5GRC 233,649 615 117 B
EA3BOX 187,999 531 107 B
EA3GHQ 179,280 457 120 B
EA3ELZ 76,349 269 91 B
EA1FBU 67,575 305 51 B
EA1EB 64,296 276 76 B
EA5EYJ 59,816 260 69 B
EA1FDG 47,160 353 40 B
EA5EIL 37,764 291 42 B
EA10B 37,084 153 73 B
EC3CIL 34,112 434 26 B
EA1BEZ 31,500 191 60 B
EA1OT 6,160 76 30 B
EA3AMV 3,948 68 21 B
EC5ACZ 2,190 68 10 B
EA1BLF 1,092 26 14 B
EA1DLN 1,092 26 14 B
EA3GIW 720 26 12 B
EA3AJW 61,245 297 45 C
EA7FZ 44,320 190 80 C
EA5DLT 12,920 116 34 C
EA7AAW 1,349 33 19 C
EA3EJI (+NET) 156,816 432 121 D

Balearic Islands

EA6ACF 13,638 271 33 B
EA6ACZ 11,172 120 42 B
EA6JN 3,444 50 21 B
EA6ZS 7,192 76 29 C

Ceuta and Melilla

EA9IE (YU1RL,op) 2,911,184 2886 212 A

Zone 39

Israel

4Z4TA 129,516 308 86 A
4Z5FW 6,330 98 17 A
4X1VF 4,471 52 17 C

Cyprus

C47W (5B4WN,op) 1,356,516 1948 147 C

Lebanon

OK1EE/OD5 893,500 1506 125 C

Turkey

TA2ZW 1,147,246 1761 144 A

Iraq

YI9CW (SP5AHC,op) 157,868 566 61 C

Zone 41

India

VU2TLO 155,308 432 82 C

Zone 44

Taiwan

BV2FG 184,955 657 71 A
BV2FI 88,320 338 44 B

China

BY1BY (BG1s JK, MK, BZ1DCH, ops) 20,492 122 47 B

South Korea

HL5AP 47,412 283 54 C
HL0K (DS1AII,DS2AFP,HL1s LME,ODG, HL2IDN,ops) 40,876 289 44 D

Hong Kong

VS6BG 58,351 271 59 C

Zone 45

Japan

JH5FXP 667,464 1080 137 A
JA2JNA 195,920 376 124 A
JR4GPA 154,584 705 72 A
JA7KBF 76,610 219 94 A
JL3SBE 72,542 256 63 A
JA1BUJ 69,342 221 76 A
JK2VOC 65,412 264 69 A
JA6IP 17,700 99 50 A
JE9LLO 6,510 53 30 A
JQ1NGT 6,160 64 22 A
JA1AB 6,120 61 24 A
JG1RDV 3,850 71 25 A
JA4HIX 2,413 33 19 A
JH5ZCP (JR5JAQ,op) 384,356 644 106 B
JH4RFH 95,626 298 76 B
JH0HON 82,144 56 30 B
JH1UUT 49,600 255 64 B
JK2DOD 21,504 110 48 B
JH6FHJ 18,960 115 48 B
JA7BEW 14,792 59 32 B
JR7WAB 11,491 200 26 B
JR9NVB 8,954 66 37 B
JR1MRG 6,358 49 34 B
JE1UFF 2,982 36 21 B
JA2GHP 2,592 40 18 B
JR7LVK 2,460 43 20 B
JA1STY 1,652 34 14 B
JA9KUG 1,456 22 16 B
JA2BEY 1,157 23 13 B
JA1DY 456 16 6 B
JH2WHS 324 48 6 B
JG1GCO 189 7 7 B
JA1JLP 45 13 2 B
JA1IDY 407,365 702 113 C
JR7OMD/2 247,044 510 119 C
JA9CJW 217,251 469 101 C
JP6JKK 191,961 652 77 C

JS1OYN 117,924 322 93 C
JF3IUC 101,288 291 88 C
JH0GHZ 65,374 248 81 C
JM1NKT 61,364 250 58 C
JASAPU 59,472 328 42 C
JA3ARM 57,836 207 76 C
JF3GKE 53,370 294 45 C
JA1WYQ 47,064 157 74 C
JR2BNF/1 29,971 153 43 C
JH6TYD 25,152 131 48 C
JA1QN 22,425 141 39 C
JA1KI 19,844 109 44 C
JA7COI 17,646 121 34 C
JH1DYV 17,064 112 36 C
JA2SWF 11,715 61 33 C
JA8SPZ 11,322 78 37 C
JA6CM 10,140 74 30 C
JH3DH/3 9,342 88 27 C
JA2MCG 6,512 66 32 C
JR9FJY 7,920 60 33 C
JO2CKU 5,346 68 27 C
JA2GTW 4,599 51 21 C
JA2QVP 3,717 45 21 C
JA1XEM 3,655 55 17 C
JA7DNO 2,912 40 16 C
JL7PVR/1 1,290 29 10 C
JF1SQC 1,280 20 16 C
JA6AJE 1,269 35 9 C
JJ2KFF 1,248 24 13 C
JA1AAT 931 22 7 C
JH1JGZ 691 25 11 C
JA3VJ 711 17 9 C
JA3BCT 204 6 5 C
JY7AA (JE1AMC,JF1s CKX,SXL, JG7PSJ, JR0SPG,ops) 763,147 1417 119 D
JA9YAK (JF1USQ,J17TDR,JM7SGO, JE0ETP,JF0ESV,ops) 220,920 651 84 D

Zone 46

Nigeria

5N0MVE 846,264 1208 148 B
5N0GC 755,760 1134 141 B

Zone 49

Vietnam

3W5FM 8,096 156 16 A

Zone 50

Philippines

DU1SSH 36,405 179 45 B
OH0XX/DU1 11,085 152 14 C
4G2X (DU2s AYL,BBH,RK,DY2BRL, 4F2s IR,MD,ops) 353,632 650 86 D

Zone 52

Angola

D2TT (ON6TT,op) 448,440 980 95 B

Zone 54

Indonesia

YB2CPO 37,640 201 40 B
YC1JZF 9,202 66 22 B
YB0ASI (AA4U,op) 138,498 363 82 C

Zone 55

Australia

VK4TT 35,061 229 31 C
VK4MZ (+VK4EMM) 572,314 907 134 D

Zone 57

South Africa

ZS9F (ZS6YA,op) 95,976 282 86 B
ZS6CAX 19,395 101 45 C
ZS6AJS 6,386 54 31 C

Zone 59

Australia

VK5GN 201,572 467 92 A
VK2VM 14,820 86 38 A
VK2ARJ 66,261 357 39 B
VK2APK 344,080 644 115 C

Zone 60

New Zealand

ZL2AGY 243,360 628 60 C

Zone 61

Hawaii

KH6FKG 90,650 500 37 B
WH6COH 58,940 302 39 B
WH6PK 20,590 150 29 B

Zone 63

French Polynesia

FOS1W 482,963 1029 97 B

Zone 65

Marshall Islands

V73CO (KE6TDY,op) 6,400 64 20 C

Checklogs

4S7WP, DH5DAK, DJ0MAQ, DL0MVG, DL0SH, DL2AKF, DL2DWA, DL2HUM, DL3HTR, DL3NEO, DL4AMA, DL5AMF, EA1AKP, EA5JC/EA1, EA8BXQ, EC7FAB, HA3GN, JR0BAT, JRI1XKU, KL7UR, LA4OGA, LA7CL, LA8CE, LA8LA, LZ1KVF, LZ1VQ, LZ2UA, LZ2UA, N0XCF, NG3K, OH2KQ, OK2SNX, OM4JD, PA0TV, PA3ONI, PA3FYF, PY3CJ, RV3VF, SM0CSZ, SM0GKF, SM0NJO, SP1GZT, SP2HHX, SP2LNW, SP3NGB, SP4TJS, SP5KDK, SP6DMJ, SP6LK, SP7VCA, SP7VCK, SP9HOF, SV2YC, UA0YAY, UA1QBE, UA3WCN, UN7EAT, UN9PQ, WD4FJP, XE1LM (XE1PE,op), YO5QCA, YO9HH, YV2FEQ.

W1AW schedule

Pacific	Mtn	Cent	East	Sun	Mon	Tue	Wed	Thu	Fri	Sat
6 am	7 am	8 am	9 am			Fast Code	Slow Code	Fast Code	Slow Code	
7 am	8 am	9 am	10 am			Code Bulletin				
8 am	9 am	10 am	11 am			Teleprinter Bulletin				
9 am	10 am	11 am	noon			Visiting Operator Time				
10 am	11 am	noon	1 pm							
11 am	noon	1 pm	2 pm							
noon	1 pm	2 pm	3 pm							
1 pm	2 pm	3 pm	4 pm	Slow Code	Fast Code	Slow Code	Fast Code	Slow Code	Fast Code	Slow Code
2 pm	3 pm	4 pm	5 pm			Code Bulletin				
3 pm	4 pm	5 pm	6 pm			Teleprinter Bulletin				
4 pm	5 pm	6 pm	7 pm	Fast Code	Slow Code	Fast Code	Slow Code	Fast Code	Slow Code	Fast Code
5 pm	6 pm	7 pm	8 pm			Code Bulletin				
6 pm	7 pm	8 pm	9 pm			Teleprinter Bulletin				
6 ⁴⁵ pm	7 ⁴⁵ pm	8 ⁴⁵ pm	9 ⁴⁵ pm			Voice Bulletin				
7 pm	8 pm	9 pm	10 pm	Slow Code	Fast Code	Slow Code	Fast Code	Slow Code	Fast Code	Slow Code
8 pm	9 pm	10 pm	11 pm			Code Bulletin				
9 pm	10 pm	11 pm	Mdnte			Teleprinter Bulletin				
9 ⁴⁵ pm	10 ⁴⁵ pm	11 ⁴⁵ pm	12 ⁴⁵ am			Voice Bulletin				

W1AW's schedule is at the same local time throughout the year. The schedule according to your local time will change if your local time does not have seasonal adjustments that are made at the same time as North American time changes between standard time and daylight time. From the first Sunday in April to the last Sunday in October, UTC = Eastern Time + 4 hours. For the rest of the year, UTC = Eastern Time + 5 hours.

Morse code transmissions:

Frequencies are 1.818, 3.5815, 7.0475, 14.0475, 18.0975, 21.0675, 28.0675 and 147.555 MHz.

Slow Code = practice sent at 5, 7 1/2, 10, 13 and 15 wpm.

Fast Code = practice sent at 35, 30, 25, 20, 15, 13 and 10 wpm.

Code practice text is from the pages of QST. The source is given at the beginning of each practice session and alternate speeds within each session. For example, "Text is from July 1992 QST, pages 9 and 81," indicates that the plain text is from the article on page 9 and mixed number/letter groups are from page 81.

Code bulletins are sent at 18 wpm.

W1AW qualifying runs are sent on the same frequencies as the Morse code transmissions. West Coast qualifying runs are transmitted on approximately 3.590 MHz by W6OWP, with W6ZRJ and AB6YR as alternates. At the beginning of each code practice session, the schedule for the next qualifying run is presented. Underline one minute of the highest speed you copied, certify that your copy was made without aid, and send it to ARRL for grading. Please include your name, call sign (if any) and complete mailing address. Send a 9x12-inch SASE for a certificate, or a business-size SASE for an endorsement.

Teleprinter transmissions:

Frequencies are 3.625, 7.095, 14.095, 18.1025, 21.095, 28.095 and 147.555 MHz.

Bulletins are sent at 45.45-baud Baudot and 100-baud AMTOR, FEC Mode B. 110-baud ASCII will be sent only as time allows.

On Tuesdays and Saturdays at 6:30 PM Eastern Time, Keplerian elements for many amateur satellites are sent on the regular teleprinter frequencies.

Voice transmissions:

Frequencies are 1.855, 3.99, 7.29, 14.29, 18.16, 21.39, 28.59 and 147.555 MHz.

Miscellaneous:

On Fridays, UTC, a DX bulletin replaces the regular bulletins.

W1AW is open to visitors during normal operating hours: from 1 PM until 1 AM on Mondays, 9 AM until 1 AM Tuesday through Friday, from 1 PM to 1 AM on Saturdays, and from 3:30 PM to 1 AM on Sundays. FCC licensed amateurs may operate the station from 1 to 4 PM Monday through Saturday. Be sure to bring your current FCC amateur license or a photocopy.

In a communication emergency, monitor W1AW for special bulletins as follows: voice on the hour, teleprinter at 15 minutes past the hour, and CW on the half hour.

Headquarters and W1AW are closed on New Year's Day, President's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving and the following Friday, and Christmas Day.