

# Results of the 1991 CQ World-Wide DX CW Contest

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**O**ne of the beautiful and exciting features of amateur radio is that radio waves respect no boundaries. The waves pass without passports or guards right into a king's palace, a dipole in India, or the smallest shack in Denver. When anyone enters a CQ WW Contest, he or she makes new friends and meets old ones. It is truly the ultimate fishing trip or shopping spree to search for all the multipliers the CQ WW brings out of the ether. With the world in rapid political change, it is reassuring to know that the ham spirit is alive and well.

Searching for the best location to try to win the prestigious single operator all band category requires months of preparation. In 1991 this location was in EA8. Located in just the right geographical location to take advantage of the most multipliers, EA8EA operated by OH2MM set a new world record. Ville said he operated the full 48 hours! He sure was moving multipliers from band to band. Just look at his band-by-band breakdown. You can also check his QTH in the photographs. Finishing second was John, W2GD, operating with his new call, P40W. The same two operators finished one and two on SSB. Last year's winner, Juha, OH7JT, operating CR3A, finished third.

The top gun in the U.S. was Bob, KQ2M, operating KM1H. Taking advantage of a great opening on 40 meters allowed him to win the trophy. Finishing second was W1KM with a fabulous 80 meter effort. Top honors in Europe go to W6NV, operating CT4A. The top three European scores were U.S. ops looking for better conditions than you would find on the U.S. west coast. Pete, AH3C, keyed IS0QDV to a second-place finish, and EA6/N6RA came in third.

## High Bands

Conditions were improved over the SSB weekend, but still you could tell the sun had cleared up its face. The top scores all came from below or near the equator. Taking top world honors on 28 MHz was ZS6BCR. He sure had a good signal. He was in the right place to get Europe and the U.S. In second place was CE3DNP, always a solid contest. The top U.S. 28 MHz winner was W0UN (operated by Steve, N2IC), just edging out K8CX. It is interesting to note the top three U.S. 28 MHz entries were from west of W3-land. In Europe it sure was best to be in the region of the sunny Mediterranean. Operating in the shadow of Mt. Etna was IT9A with IT9VQ pushing the key. Second and third were OH0BA /EA7 and 4N2V. You had to be south to get into the States.

Conditions improved a little when we consider 21 MHz. Setting a new world record was Jorge, LU8DQ, operating ZW5B. He also had 40 zones



*World high CW winner OH2MM operated from EA8EA. The view is looking to W to left, to EU on right! Wow!*

—quite an accomplishment. It was LU8DQ's last contest before becoming a Silent Key in December. He was always easy to work and a skilled code man. ZW5B was followed by P40J operated by WX4G, who beat ZW5B in QSOs but couldn't get into Asia and Europe long enough to beat him in multipliers. Third place went to C56B operated by OH6LK looking to get away from the long nights in OH-land.

The top U.S. finished was K1RM, who averaged about four QSOs more per hour than second-place KR2Q. Third-place K5RM eked out more multipliers than any other U.S. 21 MHz entrant. In Europe first place on 21 MHz went to FF0XX operated by F6GCP, who managed to snag 39 zones. Second and third place were LY2WW operated by LY2BIJ and YZ9A operated by YT3AA.

Boy, twenty sure was dead at night from California and from the comments from around the world "When the sun went down, so did 20." This bodes well for 40. Setting a new world record was P40V operated by N7NG. Wayne took advantage of a great geographical location to have more country multipliers than anyone outside the U.S. In second place was TU2MA. He made a lot of people happy with a TU CW QSO. On the other side of the earth, ZL3GQ, always a fantastic signal and operator, took third in the world. The top U.S. score was K4XS. Bill was heard working guys who KC2X second place and K3EST/6 third place could not hear. That Florida location brings more than just sunshine. In Europe top 14 MHz honors went to Sigi, TF3CW, who edged out Ike, OH0BVI. LZ5W operated by LZ1BP finished third.

## Low Bands

What was spotty on the high bands was solid copy on the low bands. Forty was very good everywhere in the world. Leaving now war-torn Bosnia and setting a new 7 MHz world record Ivo, YU4OO, operating C42A on Cyprus left the rest of the world in the dust. Several islands in the Mediterranean are similar to the three-point islands of northern South America. ZC4, 5B4, and IH9 look right into Europe. World second place went to W0ZV way over in Colorado, and third went to K4JPD. In Europe top honors went to OH5BM, who beat fellow countryman LX/OH2PQ.

Jorma, OH2KI, keyed ZB2X to world-high 3.5 MHz score, a pretty neat trick, where each European QSO was worth one point. Second high was UV9CAF, followed by G3KDB. The struggle for top U.S. 3.5 MHz had a lot of fireworks. After the logs settled, W1FV just edged out K1ZM/2 and W1MK. The latter two almost finished in a dead heat. In a photo finish, Riki, 4X4NJ, was world high on 1.8 MHz. Just beating UL0A, John, ON4UN, was the top European finisher over OK3CQR. By our count there were 109 countries on 160! In the U.S., the top score was N6SS/7 in Arizona. He ended up just one QSO above K5UR, the perennial 160 champion. It's been a long time since anyone that far west won 160 in the U.S.

## Low Power

This category is obviously very popular. Just look

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**WA2WYR** on his way to passing out AP to happy contesters.

at the results. The number one all band score in the world was 9M8DX operated by VK2DXI. He made a lot of people happy handing out eastern Malaysia. Second was RZ9UA located in Zone 18. Both the U.S. top scorer, W2TZ, and the European top scorer, YU3BC, switched over to low power from QRP the previous year. This category offers an opportunity for someone with just an excitor or with RFI problems to compete against others with similar circumstances.

#### **QRP**

In the flea-power category, Aki, JA5DQH, pushed HI8A to a new world record. It was interesting to see how being in a good DX QTH adds "dBs" to your signal. He had real pile-ups. He also lost his commercial power but noted "No problem; I just used a car battery!" Second place in the world went to Roland, DK3GI. A seasoned contesteer, Rol knew how to work as many three pointers as he could. The QRP category

has had 90 to 120 entrants per year since its inception.

#### **Multi-Singles**

With both EA8EA and EA9EA on the air at the same time, it is a tribute to all the stations who copied their calls correctly. EA9EA lead all other multi-single entrants to win the world trophy. The EA boys did a fantastic job from their North Africa location. It seemed that if your suffix ended with an "A" then your station received an "A" grade in the contest.

Second in the world and first in Europe was IQ4A from their mountaintop in northern Italy. Following closely on their heels was the crew of RZ1A from St. Petersburg and LZ9A, the Bulgarian beacon station. The top U.S. position went to K5NA2. Richard and crew (including his wife and son) edged out perennial top-scorer Sig, N3RS. Some of the crew from UZ9AYA teamed up with some UL7 boys to activate RL0L as the top Asian multi-single. I remember that Willy, UW9AR, used to bicycle from UA9A to UL7L. I guess that gets you in shape for the CQ WW. A G and W crew went to that popular African QTH C5 to take sixth high in the world. C5 sure had plenty of activity.

#### **Multi-Multi**

In the battle of the giants, Radio Team Finland, PJ9A, enjoyed better conditions than on SSB. Set up Field Day style, they used 19 towers (all made by OH6RM) and lots of antennas (all made by OH6RM), including a full-size 3-element 80 Yagi, to take the world trophy. They used a crane to help put up their antennas. The towers were

rope guyed to Formula 1 racing cement barrier blocks! Second place went to CT3M's fine multi-national crew. Their log was superb—two large notebooks with all the detail we could hope to see. Thanks, fellows.

Finishing third, just a few QSOs behind, was the W8 crew of J6DX. They had the second highest QSO total in the whole contest.

On a little island in the northern Pacific, KH0AM set a new Oceania multi-multi record. Operating from a hotel on Saipan, JE1CKA and his all JA crew worked a surprising number of Europeans on most bands. Finishing on top in the U.S. was N2RM. This Frankford Radio Club powerhouse seems to have the skilled operators necessary to prevail. Several of the old K2GL crew have found a home on the New Jersey coast. In second place was W3LPL representing the PVRC. Operating from K1EA's QTH, K1AR rounded out the top three.

Topping the European scores was HG73DX. Their multiplier was truly awesome! Sixty-three and 97 countries on 160 and 80, respectively. HG73DX was a combined effort of operators from HG4P, HA5KDX, HG5A, HG6N, and HG8Q. Second place in Europe went to 4N31A from what is now the new country of Slovenia. Their call was the second most miscopied call in our data bank. The usual mistake was 4N3JA. Who was the most miscopied you ask? HG95T, who many people copied as HG9HT.

#### **Assisted**

Boy, this category is growing very fast. From just over 100 entrants a few years ago, it now has well over 200. Multiplier spotting nets (on VHF) have been around for over 30 years, but you had

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to listen to what was said. Now these nets (packet clusters) are visual and that convenience made all the difference. Contest packet systems are now active in Japan, North America, and Europe. It is interesting to note that until the 1991 test it seemed to be difficult to keep up a very good rate with so many multipliers flashing across the computer screen. Bill, KM9P, operating N4RJ found a middle ground to turn in the first assisted score competitive with the regular single ops. He was world high. Taking second, third, and fourth place were K3WW, WR3E, and N3AD, all using the Frankford packet system. The top non-USA score was DF3CB, followed by Paolo, I2UIY, operating IQ2A.

## Team Contesting

It looks like this category is finally catching on. Three teams from the Southern California Contest Club fanned out over the world to the delight of the entrants. Finishing number 1 was SCCC #1. You can look at the box to see how many of their calls you worked. Dick, 4S7/N6AA, mentioned that he called himself blue trying to work guys on 160, but to no avail. His antenna was confined to a small lot. The SCCC boys would like to challenge other teams. Remember, the five team members can be from anywhere on earth.

## New Records

The following stations are to be congratulated for setting new CQ WW CW Records. **World:** All Band, EA8EA (OH2MM); 21 MHz ZW5B (LU8DQ); 14 MHz, P40V (N7NG). **Continental Records:** **Africa:** All Band, EA8EA (OH2MM); 28 MHz,



*Setting a new Oceania MM record was KH0AM. Back (left to right) are JA7RHJ, JR7OMD, JA9SSY, JA1KFX, 7K1PTT, JI1QPU, and JH0LFE. Front (left to right) are JE7BIZ, JE1QPU XYL, JH0KHR, JH7CUO, and AH0K. Taking the picture is JE1CKA, Tack the organizer.*

ZS6BCR; 21 MHz, C56B (OH6LK); Multi-Single, EA9EA. **Asia:** All Band, JY8VJ (DL1VJ); 21 MHz, 4Z4T (4Z4UT); 7 MHz, C42A (YU4OO). **Europe:** 3.5 MHz, ZB2X (OH2KI). **Oceania:** 14 MHz, ZL3GQ; Multi-Multi, KH0AM. **South America:** All Band, P40W (W2GD); 21 MHz, ZW5B (LU8DQ); 14 MHz, P40V (N7NG). **North America:** All Band, PJ7A (K1TO); **QRP:** All Band, HI8A (JA5DQH); **Low Power—World:** 9M8DX (VK2DXI).

## Comments

The new Low Power category seems to be an

instant success. Those of you who chose to enter this category, please remember that you are allowed no more than **100 watts** output. You are on your honor to comply with the rule. It was difficult for us to decide how to present the low power results in a way which allowed comparison to the high power scores and at the same time did not detract from the high power stations. The asterisk (\*) does not look so bad. What do you think?

Please note the list of trophies shown in the rules in September should also include four additional trophies: **World Low Power SSB** and **CW** and **Oceania Multi-Single** SSB and CW. The former two will be in honor of K7RA and UA1DZ, both recent Silent Keys, and the Oceania trophies will be sponsored by JH4RHF.

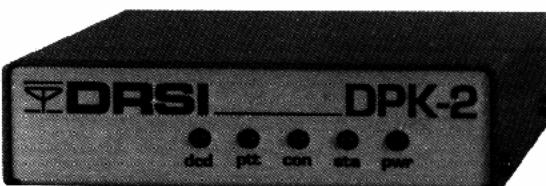
Take some time and look at the rules. You will notice that you are no longer required to sign portable if you are in the same country indicated



*Taking time off from being a dentist, JH1GTV operated as one of our first JA assisted entrants.*

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## TROPHY WINNERS AND DONORS

<b>SINGLE OPERATOR, ALL BAND</b>	<b>World</b>	<b>World—1.8 MHz</b>	<b>Caribbean/Central America</b>
<b>EA8EA</b> (Opr. Vilho Hillesmaa, OH2MM)	<b>Riki Kline, 4X4NJ</b>	<b>VP5P</b> (Ops. NQ2D, N2MG, WS4E, K4MF, WM2C, VP5P)	
<b>Donor:</b> Albert Kahn, K4FW W9IOP Memorial	<b>Donor:</b> Kenneth Byers, Jr., K4TEA	<b>Donor:</b> Ralph Bellas, Jr., K9ZO	
<b>World—ORP</b>	<b>USA—28 MHz</b>	<b>Europe</b>	
<b>H18A</b> (Opr. Akito Nagi, JA5DQH)	<b>WB UN</b> (Opr. Steven London, N2IC)	<b>I04A</b> (Ops. I4DKO, I4EAT, I4IKW, I4IND, I4LCK, I4LEC, I4JEE, I4QJH, I4TJE, I4VEQ, I4YRW, I1ZEU, IK4LZF, IK4DCT, IK4EWH, IK4EWK, IK4NPD, IW4ANU)	
<b>Donor:</b> Gene Walsh, N2AA	<b>Donor:</b> Robert Clark, K6JYO	<b>Donor:</b> Friends of K3AO K3AO Memorial	
<b>World—Single Operator Assisted</b>	<b>USA—21 MHz</b>	<b>MULTI-OPERATOR, MULTI-TRANSMITTER</b>	
<b>N4RJ</b> (Opr. Bill Fisher, KM9P)	<b>Vincent Sgroi, K1RM</b>	<b>World</b>	
<b>Donor:</b> Richard Newell, AK1A	<b>Donor:</b> Wayne Carroll, W4MPY	<b>PJ9A</b>	
<b>U.S.A.</b>	<b>USA—14 MHz</b>	<b>Donor:</b> Hazard Reeves, K2GL Memorial	
<b>KM1H</b> (Opr. Robert Shohet, KQ2M)	<b>K4XS</b> (Opr. Jeff Bolda, WC4E)	<b>USA</b>	
<b>Donor:</b> Frankford Radio Club	<b>Donor:</b> Northern Illinois DX Assn.	<b>N2RM</b> (Ops. N2RM, WM2H, KE2PF, N2EA, KZ2S, KA2AEV, K3UA, KR2J, N4HY, N2AA, K2TW)	
<b>Caribbean/C.A.</b>	<b>USA—7 MHz</b>	<b>Donor:</b> Jim Rafferty, N6RJ	
<b>PJ7A</b> (Opr. Daniel Street, K1TO)	<b>William Tippett, W8ZV</b>	<b>Europe</b>	
<b>Donor:</b> Larry Brockman, N6AR	<b>Donor:</b> Jan Perkins, N6AW W6AM Memorial	<b>HG73DX</b> (Ops. HA4ZZ, HA4WQ, HA4ZD, HA8LKK, HG4FC, HA5GF, HA5IW, HA6WX, HA5LN, HA5MK, HA5OM, HA7RY, HA5FA, HA5ML, HA5UA, HA5RE, HA5FQ, HG5YY, HA5FM, HA5AWH, HA6NF, HA6OQ, HA6NY, HA6ON, HA6ND, HA6PX, HA8IE, HA8LKE, HA8LLK, HA8-06, HA8JV, HA5TI, Szabadi)	
<b>Canada</b>	<b>USA—3.5 MHz</b>	<b>Donor:</b> Finnish Amateur Radio League	
<b>CK7C</b> (Opr. Gary Caldwell, WA6VEF)	<b>John Kaufmann, W1FV</b>	<b>Japan</b>	
<b>Donor:</b> Canadian DX Association	<b>Donor:</b> N7BG and AA7FM	<b>JE2YRD</b> (Ops. JA2KVD, JF2XJE, JF2EOC, JR2SQU, JK3GAD, JI3ERV, JH4RHF, KC6CW, JA9-10148)	
<b>Europe</b>	<b>USA—1.8 MHz</b>	<b>Donor:</b> Nippon Television Network Corp.	
<b>CT4A</b> (Opr. Oliver Sweningsen III, W6NV)	<b>Preston Smith, N6SS/7</b>	<b>World—SSB/CW Combined</b>	
<b>Donor:</b> Edward Bissell, W3AU	<b>Donor:</b> Peter Hutter, WW2Y	<b>KH8AM</b> (46,941.515)	
<b>Africa</b>	<b>Canada (21 MHz)</b>	<b>Donor:</b> Ehrhorn Technological Operations	
<b>CR3A</b> (Opr. Juha Tuovinen, OH7JT)	<b>David Goodwin, XN2ZP</b>		
<b>Donor:</b> Gordon Marshall, W6RR	<b>Donor:</b> Canadian Amateur Radio Fed.		
<b>Asia</b>	<b>Caribbean/Central America (7 MHz)</b>		
<b>JY8VJ</b> (Opr. Bernd Laenger, DL1VJ)	<b>VP2EI</b> (Opr. Bruce Lee, KD6WW)		
<b>Donor:</b> Japan CQ Publishing Co. Ltd.	<b>Donor:</b> Thomas Wall, K2TW		
<b>Japan</b>	<b>Europe—28 MHz</b>		
<b>Tatsuya Sasaki, JH7WKQ</b>	<b>IT9A</b> (Opr. Giuseppe Giunta, IT9VDQ)		
<b>Donor:</b> Japan Crazy Contesters Club	<b>Donor:</b> Southern New England DX Club		
<b>Oceania</b>	<b>Europe—21 MHz</b>		
<b>9M6NA</b> (Opr. Saty Nakamura, JE1JKL)	<b>FF0XX</b> (Opr. Patrice Griset, F6GOP)		
<b>Donor:</b> Maui Amateur Radio Club	<b>Donor:</b> Robert Naumann, KR2J		
<b>South America</b>	<b>Europe—14 MHz</b>		
<b>P48W</b> (Opr. John Crovelli, W2GD)	<b>Sigurdur Jakobsson, TF3CW</b>		
<b>Donor:</b> Venezuela DX Club	<b>Donor:</b> Al Slater, G3FXB		
<b>SINGLE OPERATOR, SINGLE BAND</b>	<b>Europe—7 MHz</b>		
<b>World—28 MHz</b>	<b>Tapani Nisula, OH5BM</b>		
<b>Chris R. Burger, ZS6BCR</b>	<b>Donor:</b> K1CC and W1WEF		
<b>Donor:</b> Joel Chalmers, KG6DX	<b>Japan—21 MHz</b>		
<b>World—21 MHz</b>	<b>Hiro Shiozawa, 7L1GVE</b>		
<b>ZW5B</b> (Opr. Jorge Bozzo, LU8DQ)	<b>Donor:</b> DX Family Foundation		
<b>Donor:</b> Don Busick, K5AAD N5JJ Memorial	<b>MULTI-OPERATOR, SINGLE TRANSMITTER</b>		
<b>World—14 MHz</b>	<b>World</b>		
<b>P48V</b> (Opr. Wayne Mills, N7NG)	<b>EA9EA</b>		
<b>Donor:</b> North Jersey DX Assn. W2JT Memorial	<b>Donor:</b> Anthony Suse, W3AOH		
<b>World—7 MHz</b>	<b>USA</b>		
<b>C42A</b> (Opr. Ivo Pezer, YU4OO)	<b>K5NA/2</b> (Ops. K5NA/2, KU2Q, WB2Q, KY2J, NG2X, NA2N, K2UR, K2ONP)		
<b>Donor:</b> Alex M. Kasevich, VP2MM	<b>Donor:</b> Douglas Zwiebel, KR2Q		
<b>World—3.5 MHz</b>	<b>Canada</b>		
<b>ZB2X</b> (Opr. Jorma Saloranta, OH2KI)	<b>XN3EJ</b> (Ops. VE3IY, VE3ICR, VE3EJ, VE3CDX)		
<b>Donor:</b> Fred Capossela, K6SSS	<b>Donor:</b> Eastern Canadian DX Assn.		
		<b>CONTEST EXPEDITIONS</b>	
		<b>World—Single Operator</b>	
		<b>7Q7TT</b> (Opr. Phil Goetz, N6ZZ)	
		<b>Donor:</b> Yankee Clipper Contest Club	
		<b>World—Multi-Operator</b>	
		<b>C56N</b> (Ops. G3SXW, GM3YTS, K5VT, K7GE, NZ7E)	
		<b>Donor:</b> Bill Schneider, K2TT	
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		<b>EA8EA</b> (6490)	
		<b>Donor:</b> KV4AA Memorial (From the 14270 KHz Group)	
		<b>CLUB</b>	
		<b>World—SSB/CW</b>	
		<b>Frankford Radio Club</b> (232,530,605)	
		<b>Donor:</b> CQ Magazine	
		<b>Non-USA—SSB/CW</b>	
		<b>Rhein-Ruhr DX Association</b> (94,138,183)	
		<b>Donor:</b> Northern California Contest Club N6AUV Memorial	

by your callsign. So K5NA/2 can sign K5NA now in the CQ WW. It would help us if U.S. stations indicated your contest call area on the cover sheet. Also note that we have tightened up the requirements that you must comply with if you need an extension to prepare your log. We had to put our foot down on this issue. If you look at the rule on log requirements, you will see that a separate log must be submitted for each band you operate. Do not submit a log with 80, 20, etc., all mixed together. Submit a separate log for each band.

As was mentioned last month, the CQ WW country multiplier list is composed of both the

DXCC plus the WAE lists. As of this writing, the following count as country multipliers in the CQ but are not on the DXCC list: 4U1VIC, 9A, GM (Shetland Islands), IT, JW (Bear Island), TA1 (remember that you can also count TA2, 3, 4, 5—Asiatic Turkey), UN, YU3, and YU4.

## A Special Thanks

To all the members of the CW WW Committee: W7EJ, N6AW, K6NA, W9RE, WA8YVR, KR0Y, W2RQ, N3ED, K4XS, K1DG, and KR2Q. Thanks to the DX help from OH2MM, OH2BH, I2UIY,

JE1CKA, and YT3AA. Thanks for computer guidance from KB3MM, K1EA, and KD6EJP.

I don't know how to thank a retiring log checker who has been on the committee since 1970. N2AA, Gene, has been someone I have kicked ideas around with for 25 years. He has looked at thousands of logs and still maintained his enthusiasm and fresh outlook. He will still act as a special consultant for the committee. All contestants should tip their antennas to Gene.

Congratulations to all entrants. See you in the 1992 contest!

73, Bob, K3EST/6, and Larry, N6AR/4

## DX QRM

If our station was only located on the east coast ... VE7ZZZ. Heavy rain hampered my operations on bands as well. I always enjoyed the CW contest and hope to do better in 1992 ... 9M2FK. Propagation cndx to North America and Europe were just awful. In any event, I had a great time and will be able to operate the contest from here next year as well. Looking forward to it ... 9M2NA. The test was a last-minute effort. I was just given permission to operate. What a pile up! Sounded like the inside of a bell and I was hearing ditty-bop in my head for two days after the test ... AP/WA2WYR.

Vy QRN in this area ... CX4SS. Ten meters was poor but 40 was fantastic; contacted only a few stateside stns ... DU3HF. I operated with simple dipole up only 10 feet ... JA4CUU. QRQ was very hard to copy ... PY2HF. I was keen to give away a few a new zone number to friends. I have not seen CQ magazine in 10 years! Someone told me test started at 1200Z! Finally I found correct starting time. I called many people with no answer until JA1NUT answered me and gave me encouragement. So I made new antenna and worked some more. It was great fun and hope to do better next time ... VU2BGS.

Thank you to those who made possible four hours at 200+ QSOs. Great conditions on all bands! Hope 1992 will be as much fun! ... P40W (Opr. W2GD). Deep thanks to the St. Maarten power company for scheduling over 3.5 prime hours of power outages! Otherwise, I thoroughly enjoyed my first single-op DXpedition! ... PJ7A (Opr. K1TO). Trx HC5K and Chela ... HC5M (Opr. CT1BOH). Biggest thrill: HS0AC on 5 bands, 6V6U on 6 bands in 6 minutes ... ZP0Y (Opr. WN4KKN). Klaus, JY9VC, was a superb host! ... JY8VJ (Opr. DL1VJ).

I am newcomer in contest, thrilled by seeing lots of sleepless, restless participants ... VU2FWW. Chasing as many countries as possible on 7 and 14 MHz ... YB0UNC. This is my first CQWW. It is a very interesting and excellent contest ... EA2CLU. Quite good cndx on most bands, many interesting stations and some "new ones" have brought another enjoyable weekend ... EA3ALV. First time in the test. What a race! Will be back agn next year ... EC1DFP. CQWW is vy good contest ... F1MOY.

I regard this contest as one of the best in the calendar. There were so many big signals on the band that I would have traded my grandmother for a better dynamic range on the RX. Hi! ... G3XMZ. Conditions not as good as last year on 14 and 28 ... G4ZME. Thanks for Biggie CW test. What an effort it took to decipher some of the pileups for the GI prefix ... G10NWG. Quite good cndx on Sunday. But no JA or W6/7 on Saturday or Sunday ... GM3CFS. TVI problem. Best DX op = PJ9A ... LY1BA.

Using low power reminds of 1950s and 60s when I used Geloso VFO + 6164 in all tests, including CQWW ... OH3TY. After 190 QSO rig broke! ... OH8LC. Enjoyed contest but can't be a long time in the shack ... ON4ZD. Operating from WW II museum in Copenhagen, using old B2 (suitcase radio from 1943) as xmtr, was glad to have 52 QSO during the museums Sunday opening time ... OZ5MAY. How come that people who want to operate seriously in a contest with just 100W often get TVI and those who operate with 1 KW cause no TVI? ... PA3EZL.

Have participated since 1983; looking forward to joining the 1992 test ... SM7LAZ. Poor cndx-hrd nil from North, Central and South America ... SP5GH. I was out of Athens and I came back just few hours before the end of the contest. Very quickly made a dipole for the top band and here I am! ... SV1NA. I made DXCC award in contest ... UB5CQW. Every WWDX contest has many DX stations ... UO5OLW. Cndx and WX were very bad over here ... UW0ST. Best contest of the year ... Y21CL. I found a lot of old friends but also new ones ... YU3PG. I wish that cndx had been here for more DX contacts ... RC2AZ. It was my first WW. From now on I will take part in every one in future ... UA1NAW. Not easy to work DX on 80 meters ... UA6LT1. UT0N is special call of Ukrainian Language Radio Amateur Society "Radio-TLUM" ... UT0N (Opr. RB5NC). Cndxs are really decreasing, but we can still enjoy 10 meters for several years ... 7K1NUX. I make it a rule to take part in this contest every year ... JA1EMQ. Cndx was so well but antenna was not so well. I lost some other countries. Much regret! ... JH1NHY.

Enjoyed and glad to get some new ones ... JI1FYC. I enjoyed the test but couldn't contact with 5V7RC and other African stns ... JN1WXW. I've forgotten to get JA multiplier on any bands! ... JQ3UDL. I took more than 100 multipliers with my small system. I can't believe still now! ... JR4PMX/1. Very poor cndx 1st day, moderate on 2nd day on 80 meters ... JA1XAF. I enjoyed all of 48 hours but cndx not so good ... JA5ONK. Me and my friends (JA6EXO and JA6JVI) built antennas

on 23rd November just the day of CQWW. I enjoyed test thanks to my friends ... JA6SHL.

First time to use CT on CW test. It is really easy and enjoyable ... JA8RUZ. Hope to work next year from KH2V in Guam ... JA8RWU. Enjoyed this contest with ARRL EME competition at same night time. I don't like beam antennas very much. I am member of "Dipole WW DX Contesters Club." Hi! ... JA9KHU. I got eight new countries for the DXCC through the contest! A big harvest ... JE8MFQ. I will try 3.5 band next contest ... JG1BPS. As XYL and the boys went to my parents' house, I operated almost full 40 hours this year ... JR1JV.

The WWDX CW test was very entertaining ... JP0EQQ. My first competition as a single operator—quite an experience! ... C56A (Opr. OH6EI). There is a chance I might be here next fall. If so we'll certainly be looking to do a bigger effort then ... KG8UHDU1. Due to the continuous changes of prefixes I suggest that in same issue of CQ where you announce tests you may give forms required including list of countries ... HZ1HZ. Vy happy to work your contest ... LU7EE. Vy glad for getting 8 more countries on 80 on my way to 5BDXCC ... PP8WHL.

My first test—same day I will reach the top ... PY2NN. CQWW is still the most exciting competition. As sunspot cycle 22 held steady, 10 meters proved to be a must ... PY5BLG. Emergency LW antenna did not work ... VK2BQQ. Great to see the terrific CW activity particularly from Europe, Japan and Russia ... VK3ALZ. After the contest I found the grass in the backyard up to my son's knees! I had fun ... VK8SD. Cndx vy bad from Indonesia. I heard many 599 but they did not hear me ... YB2FEA.

It's great to be back contesting again from YV-land ... YV5/K3UOC. After about 10 years the first "Big One" in CW. I really enjoyed it ... Z21HQ (Opr. DF2RQ). Only operate from a suburban lot so not a large antenna farm ... ZL1AIZ. First contest—my operating skills improved tremendously!! ... ZS6TVB (Opr. ZS6BUV). QTH: Wa Safwan, Iraq. Buffer zone with UN peace keeping ... N6BFM/4U. Please understand that I listened carefully for many hours in the effort to copy the call of the many contest operators. I succeeded in copying 50. So when AB5K gave his nice clear contest call, I responded and made my first successful contest exchange—watch for me next year ... 5W1JD.

Murphy strikes! Lost power twice for 5 hours on Sat. and quit ... 6D2X. Pointed the beam to check long path first night—it froze for 14 hrs! ... AA6DX/KL7. Great fun. I enjoyed the contest. So did my wife, Heather, PJ8CW, who did the phone section ... PJ5JP. First time in CW portion of contest, will be back next year ... VE3VET. Six hours in volleyball tournament burned my anti-sleep resistor ... VE7UF. Getting back into CW after 30 years. I appreciate those who slowed down for me ... W8HN/1KP4.

I wish 9M6NA had heard me as well as I heard him ... XN2ZP. Very bad opening to the west. Next time I'll prepare new amp "Jack the Ripper" and you will see what will happen to your bulbs! ... 4N1A (Opr. YU1YV). Vy bad cndx.; 20 closed at night ... DJ0SH. Cndx on 20 terrible, vy noisy in Eu worked most W6 LP ... DL1HCM. 5U7M was a new one on 80 ... DL7MAE. I tried using the abbreviation "E" for the "5" in the report. Only three stations out of the 3629 did not seem to understand ... EA6/N6RA.

Unable to operate the keyer and computer so back to the old pencil ... EA6GP. Great DX, lots of fun, next year computer no more pencil ... EI6FR. Many thanks for great test ... ES0NW. I operated the contest without calling CQ, only answering stations ... F6GKO. Strong signs from US east but nothing from west ... FD1OQJ. TVI caused me run low power during prime-time TV but still great fun ... G3NKS. Was able to run stns only on 80 and 10 other bands a struggle ... G4BUO.

Still enjoyable! Forty years of participating! ... GW3JI. Hope to win contest for HB for 10th consecutive time ... HE7AGA (Wow!—ed.). My stn was field day style with 20 cm of snow ... HE7APJ. All wrkd with hand-key ... HE7CVO. I congratulate you for organizing the very interesting CQ contests. Greetings from Vatican City ... ID0DUD. Great to have ZA1TAG call me! Tough times on 10 and 15 to west US ... IS0QDV (Opr. AH3C). I had no time, but CQWW is CQWW! ... LY3BCO.

Nice to be back again! ... OZ5DX. 77C on 6 bands! Tks PA3DFJ ... PA0CLN. The first time I used "real time" computer logging—I had lots of fun! ... PA0LOU. Big plans, hard work, poor propagation, but great satisfaction. It is the WWDX ... SP2PMO (Opr. SP2JKC). Some big guns don't send I.D. for long time, wasting time for real contestants. Thanks again for best contest ever! ... SP5DDJ. Special thanks for KH0AM, VS6WO, CT3M, EA9EA, and NP4Z for nice 40 and 80 multipliers ... YL2GD.

My all band score was less than the one me and OH2MM worked on 20m from PJ9A last year! This was my first single band effort and will be back for sure

## TOP SCORES

<b>WORLD</b>	C56B	1,405,728	LZ5A	204,276	LU4FD	287,896	RQ2GIG	37,584	AD1C	2,897,988	
<b>SINGLE OPERATOR</b>	9Y4VU	1,050,720	OH0AM	195,151	VK4XA	198,288	UA2EC	35,445	W1RR	2,879,104	
	KG6DX	963,815	KH2D	173,712	WB4TDH	185,472	RB3MO	32,311	W3XU	2,817,485	
<b>All Band</b>	4Z4T	939,900			N4EJW	146,064			AA2Z/1	2,762,535	
EA8EA	13,225,295			<b>1.8 MHz</b>	JN3TMW	141,570		<b>3.5 MHz</b>	K2SX/1	2,267,397	
P40W	10,586,808		4X4NJ	99,470			UT5AJ	49,150	N2MM	2,170,158	
CR3A	10,457,742	<b>14 MHz</b>	UL0A	98,344			N4IJ	40,504			
8R1K	8,559,292	P40V	1,883,700	ON4UN	79,458	<b>21 MHz</b>	EA8AF	37,300	<b>MULTI-OPERATOR</b>		
PJ7A	8,357,236	TU2MA	1,164,150	OK3CQR	52,785	LU1ICX	545,034	OK1DRQ	34,776	<b>SINGLE TRANSMITTER</b>	
HC5M	8,157,240	ZL3GQ	1,148,418	LZ1KOZ	37,467	HA8RH	212,598	IK1OWC	29,884		
8P9Z	7,896,245	TF3CW	740,250	IT9T	28,260	JN1VOC	205,905	LY2BIP	28,413		
T11C	7,789,180	OH0BVI	673,056		JE1VTZ	179,832			EA9EA	13,096,080	
9Y4H	7,568,316	LZ5W	572,800		SP5JTR	178,048			IQ4A	9,104,040	
ZP0Y	7,406,520			<b>LOW POWER</b>	UB5PCU	168,783		<b>1.8 MHz</b>	RZ1A	9,083,938	
				<b>All Band</b>					LZ9A	8,961,206	
				9M8DX	2,388,719		OY6A	36,352	RL0L	8,684,742	
<b>28 MHz</b>	C42A	980,490	RZ9UA	1,939,451			OK3IQ	22,080	C56N	8,362,560	
ZS6BCR	1,214,499	W0ZV	382,936	YU3BC	1,677,744	<b>14 MHz</b>	Y21PO	18,088			
CE3DNP	1,082,304	K4JPD	364,293	ZC4CZ	1,648,320	VU2PTT	136,100	OK1DRU	17,976	<b>MULTI-OPERATOR</b>	
ZY5EG	810,509	OH5BM	357,656	OA4ZV	1,353,800	JH4JNG	133,614	OK3TWJ	12,532	<b>MULTI-TRANSMITTER</b>	
IT9A	643,968	LX/OH2PQ	354,340	GD4UOL	1,314,405	VK4TT	125,664	DF3LP	9,515		
OH0BA/EA7	529,133	G3FXB	337,659	JF1SEK	1,227,366	LY2BRJ	118,472				
4N2V	428,536			W2TZ	1,159,128	OH9UW	117,832				
				NM2L	1,107,635			<b>ASSISTED</b>			
				YB2HAP	1,050,560		N4RJ	4,481,038	PJ9A	35,327,160	
<b>21 MHz</b>	ZB2X	435,456				<b>7 MHz</b>	K3WW	3,330,771	CT3M	27,961,992	
ZW5B	1,864,372	UV9CAF	361,935		HA8QC	45,120	WR3E	2,997,498	KH0AM	21,856,979	
P40J	1,756,890	G3KDB	207,045	<b>28 MHz</b>	KV8Q	45,114	HG73DX	16,057,755			
				C56/G4ODV	902,967	RB5QCT	38,610	N3AD	2,924,540	N2RM	12,374,331
<b>USA</b>	KR2Q	509,250		<b>3.5 MHz</b>	W6JTI	912,216		<b>14 MHz</b>	W3XU	2,817,485	
<b>All Band</b>	K5MR	414,018	W1FV	169,572	NJ2L	861,568	KI6YB	23,680	AA2Z/1	2,762,535	
KM1H	4,969,248	WA8DXB	304,869	K1ZM/2	167,827	K9QVB	814,484	WD9GGY	17,850	K2SX/1	2,267,397
W1KM	4,133,454	KC0D	275,128	W1MK	167,162	KG1D	768,950	WA2ASQ	16,848	N2MM	2,170,158
K1CC	3,875,538	NQ0I	232,974	WE3C	72,168	N4YDU	783,090	K4NNQ	6,210		
N2NT	3,813,524			WB5VZL	45,600	WB8YJF	668,100			<b>MULTI-OPERATOR</b>	
K3TUP	3,813,315			KO0U/4	37,525	W3RJ	543,749			<b>SINGLE TRANSMITTER</b>	
K3ZO	3,495,300	<b>14 MHz</b>	K4XS	424,536		WA0RJY/7	423,072				
N2LT	3,399,076	KC2X/4	354,900				KV8Q	45,114	K5NA/2	6,718,160	
W3BGN	3,371,028	K3EST/6	308,315	<b>1.8 MHz</b>	N6SS/7	9,800	N9XX	16,401	N3RS	6,621,024	
N6BV/1	3,211,070	K8MFO	286,440	K5UR	9,744	WB4TDH	185,472	K1RU	5,489,078		
WM5G	3,010,554	N5GM	280,559	WB9Z	8,154	N4EJW	146,064	N4WW	5,393,340		
	<b>28 MHz</b>	W5FO	204,600	KV0Q	7,222	W5VGX	113,796	K2TR	4,895,800		
W0UN	383,525			K4TEA	6,223	KA4RRU	102,080	K1IU	4,220,192		
K8CX	382,483			AB4RU	6,063	KJ4VU	43,700			<b>MULTI-OPERATOR</b>	
W6QHS	231,434	<b>7 MHz</b>			WA6FGV	29,172			<b>MULTI-TRANSMITTER</b>		
K5RX	202,212	W0ZV	382,936				N4RJ	4,481,038	N2RM	12,374,331	
WS1M	163,609	K4JPD	364,293				K3WW	3,330,771	W3LPL	11,286,606	
W6AXX/3	148,561	K1MM	258,579	<b>LOW POWER</b>		<b>21 MHz</b>	WR3E	2,997,498	K1AR	10,632,647	
	<b>21 MHz</b>	W2UP/3	148,480	All Band	WT8P	62,008	N3AD	2,924,540	K1ST	8,249,583	
K1RM	562,624	W5WMU	114,608	W2TZ	1,159,128	NK8Z	53,376	AD1C	2,897,988	K8CC	5,748,535
		N9NS	93,728	NM2L	1,107,635	NA9N	37,410	W1RR	2,879,104	N6ND	5,748,129
<b>EUROPE</b>	EA2IA	420,064		<b>1.8 MHz</b>	DJ2HH	102,796	RB3MO	32,311	DF8WS	1,546,356	
<b>All Band</b>	L22KRU	418,035	ON4UN	79,458	UC2ADX	101,568	UY5WA	27,702	UT2L	1,516,110	
CT4A	4,718,880	LZ5N	382,752	OK3CQR	52,785	UA6BPJ	95,036		SM5IMO	1,101,762	
IS0QDV	4,519,248			LZ1KOZ	37,467			SK3LH	1,068,264		
EA6/N6RA	3,837,915	<b>14 MHz</b>	TF3CW	740,250	LY2BTS	28,224	<b>3.5 MHz</b>	DL4MCF	1,060,290		
HA4XT	3,714,316	OH0BVI	673,056	HA8KX	26,340						
IS0/K1RX	2,840,629					<b>21 MHz</b>	UT5AJ	49,150	<b>MULTI-OPERATOR</b>		
G3MXJ	2,837,366	LZ5W	572,800			VK1DRQ	34,776	<b>SINGLE TRANSMITTER</b>			
OZ1LO	2,764,025	G3LNS	540,452			IK1OWC	29,884				
G4BUO	2,711,476	I3JSS	539,232	<b>LOW POWER</b>		RB3AW	28,770				
OK1ALW	2,650,158	OH7MA	475,499	All Band	YL2GN	149,860	LY2BIP	28,413	IQ4A	9,104,040	
F6BEE	2,658,796				HA6NW	137,256	OK3ZBU	26,845	RZ1A	9,083,938	
	<b>28 MHz</b>	OH5BM	357,656	YU3BC	1,677,744	OK2PLH	134,256		LZ9A	8,961,206	
IT9A	643,968	LX/OH2PQ	354,340	GD4UOL	1,314,405				UW2F	7,598,605	
OH0BA/EA7	529,133	G3FXB	337,659	DL2OBF	1,001,376	<b>1.8 MHz</b>	OY6A	36,352	HC1S	7,057,087	
4N2V	428,536	OH2AQ	292,572	OE2VEL	917,896	LY2BRJ	118,472	GW8GT	6,786,675		
DK5PD	409,968	OH7UE	261,225	F1JCB	832,136	OH9UW	117,832				
HA9BVK	364,080			YL2KO	749,840	YU3PG	95,190				
LY3BI	339,590	<b>3.5 MHz</b>	ZB2X	435,456	UA3DJY	86,020	OK1DRU	17,976			
			G3KDB	207,045	YU3FA	674,172	HA8DT	74,776	OK3TWJ	12,532	
			LZ5A	204,276	SM5AD	619,884	DF3LP	9,515	DF3CB	2,142,255	
FF0XX	528,160	OH0AM	195,151	RB5QDP	133,497	G3SWH	605,484		IQ2A	2,044,562	
LY2WW	474,166	UT5UGR	171,798					R6L	1,983,190		
YZ9A	464,600	YT3L	163,800	OK1XW	111,198			LY2ZO	6,471,187		
								PI4COM	1,913,184		
								GB5CW	5,960,952		
								YU3EA	1,829,282		
								DL0KF	5,299,711		
<b>ASSISTED</b>											
<b>21 MHz</b>											

## BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSO's/Zones/Countries on each band.

### WORLD TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
EABEA	254/14/57	567/21/64	1114/30/90	1405/37/108	1374/36/100	1776/33/95
P40W	245/15/34	444/20/68	897/27/80	875/30/92	1138/28/97	2143/25/101
CR3A	197/12/47	637/18/72	1042/27/82	792/29/74	1304/33/90	1819/31/91
8R1K	77/12/23	275/17/51	779/23/68	1281/30/78	1417/27/80	1851/24/75
PJ7A	66/10/22	541/16/58	992/24/78	1262/32/100	1313/27/85	1625/26/75
HGSM	41/9/16	252/18/34	825/29/75	719/32/88	1285/30/87	1974/30/92
8P9Z	280/13/28	523/17/63	597/24/81	984/32/96	1238/30/91	1468/28/92
T11C	59/8/14	382/15/49	1174/31/89	918/35/93	1282/33/97	1676/32/94
9Y4H	84/9/21	223/20/58	664/24/81	1090/32/94	1067/31/89	1396/29/76
ZP8Y	37/11/12	87/20/35	496/31/62	977/33/90	1094/34/92	1938/32/91

### WORLD MULTI-OPERATOR SINGLE TRANSMITTER

EA9EA	61/14/50	526/16/71	1586/32/109	1045/36/123	1349/35/115	1287/37/114
IQ4A	47/7/48	157/19/92	1794/36/124	801/36/121	1093/36/119	1252/38/116
RZ1A	269/12/57	620/33/102	1022/38/121	1727/37/128	1293/37/119	682/36/115
LZ9A	110/17/62	194/22/76	1703/36/125	793/37/124	1118/39/127	1138/37/113
RL0L	125/15/50	550/23/81	957/34/104	1104/36/115	867/34/105	605/32/98
C56N	12/6/11	48/12/45	913/23/79	1385/35/100	928/30/105	1718/27/88

### WORLD MULTI-OPERATOR MULTI-TRANSMITTER

PJ9A	443/16/47	1233/26/77	2372/29/105	4036/39/135	3373/36/135	3534/37/128
CT3M	184/12/48	1500/21/81	2289/31/108	3108/36/130	2713/34/121	2411/33/113
J6DX	620/18/62	1304/21/81	2011/29/101	2957/34/124	3351/37/130	2986/32/116
KH0AM	129/5/6	796/25/54	1900/34/112	2790/38/128	2548/37/116	2184/37/101
HE73DX	599/11/63	1305/29/97	2040/37/133	1901/39/128	1897/38/123	1478/36/120
N2RM	70/16/44	394/24/86	1058/36/124	1133/38/130	1397/37/137	1020/36/131

... OH1MM (Op OH6LI). Aurora made cndx poor. However, nice test as always ... OH5TS. It was nice to work those fellows from the USA that I met in Curacao during CQ WW SSB test ... OH6YF. Aurora blocked the bands totally sometimes ... OH7BUQ. Very good cndx on 10 meters ... OK1AD. My first real CW entry. You will see me many more times after this one ... ON4AKL.

### USA QRN

Running JAs with 100W and holding a frequency in the bottom 10 kHz ... AA7CQ. A real surprise to call CQ on 40 meters and have JT1BG answer ... AA7EL. "Gonna go computer next year" ... AE2N. Those tiny sigs from Europe at 1AM on east coast and getting 7Q7 ... KA1WIF. My second contest. Lots of fun. Wish they had an entry class for people who work on Saturday ... KA4IQD. Was amazed at ability to break through pile-ups with my low-power rig and no gain antennas ... KB1KM.

Hear 4S7/N6AA on 20 Saturday, called my head off, no luck ... KF5PE. Mni tks to vast majority of ops who were vy courteous and extremely patient ... KK4SM. Instead of taking down R5 vertical in daytime (no outside antennas allowed) left it up all weekend. Got call Monday to take it down! ... KC3AG. Like low power category ... N2JOH. This completes my first set of WW tests, lots of fun ... N5TCQ. New low power category finally gives the little guys a chance ... N9XX. Biggest thrill was wrking BY1PK ... NI9C.

Working VK0ML for my 290th country ... W6JTI. Wrking KH0AM on 20 at 2:15 EST ... W8YGR. CT is wonderful ... W9HE. Hit the button on memory keyer. Out came a language that I could not decipher! Forgot to reprogram! ... WA6KUI/4. Low power class is a great idea ... WA0RJY/7. I never thought I would miss the East Coast. A vertical is the pits for WW from Colorado ... AA0CY. Thirty-eight zones—closest I've ever come to WAZ in a weekend ... K1TN. Outstanding contest, outstanding operators, marginal cndx ... K4XG.

High-speed ops should slow down to 25 wpm so everybody could work them. They lose lots of QSOs ... K91KP. How about an optional participation pin similar to Sweepstakes or CQ-M? ... K0BJ. Cracked zone 33 pile-up on 80 with 80W and 67 foot LW ... KA5VOZ. The first time I've entered results for. Ever! I was really impressed by the polite operating of the JAs ... KG6I. I enjoyed the test vy much and hope the stns wrked as good as QSLing as they are at contesting! ... KM3D. Remarkable what can be wrked during a solar flare ... KS7T.

I think that anyone who makes 10-15 QSOs before IDing should be flogged ... KU0C. Seemed tougher but beat last year's score ... N2MR. I hope you get my call right this year. N2WK not N2WM ... N2WK (Sri—ed.). Been a ham for 30 years! Tired of pulling antenna around with rope! Next year I'm buying an antenna rotor ... N7JXS. Borrowed keyer, borrowed rig—no filter. Too much wrk! ... NA2O. Did not think I would make it. Had triple by-pass in July, had double pneumonia; 87 days in hospital ... W1CNU.

Who is this station QRZ? I kept hearing him all over the bands. TU QRZ ... W1OO. Eighty-seven years old and still going strong in CQ and ARRL DX contests! ... W2AWF (Congratulations, Elmer—eds). Everyone comes out of the woodwork and causes a mess ... W2YY. QSK failed after 13 minutes so used old bug and foot switch ... W3GM. First hour on 14 wrked 9M6, A3, V8, and HS ... W3OV. Propagation was about the worst I can recall since the CQWW started in 1948—and I haven't missed many ... W3VT/4.

### USA TOP SINGLE OPERATOR, ALL BAND

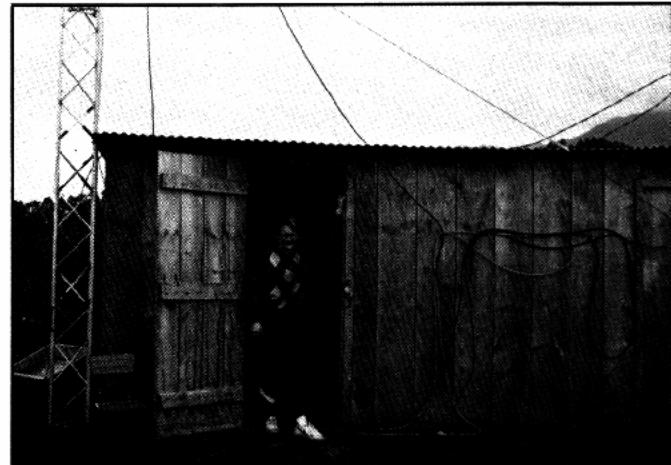
Station	160	80	40	20	15	10
KM1H	29/10/25	207/15/60	877/30/92	438/33/87	622/33/94	737/28/85
W1KM	21/13/18	359/22/78	492/29/85	437/31/97	489/27/80	601/26/85
K1CC	30/11/22	136/14/54	342/30/93	348/33/95	756/30/89	677/28/83
N2NT	29/10/21	165/18/63	556/28/88	368/31/83	811/33/91	403/24/82
K3TUP	25/9/17	115/18/56	519/34/95	560/36/101	452/30/92	512/29/87
K3Z0	11/5/9	204/19/65	451/33/103	289/37/93	455/32/97	597/27/90
N2LT	17/8/15	91/20/56	374/31/96	294/33/94	793/35/96	399/27/88
W3GN	31/9/19	166/15/54	430/31/95	261/30/82	544/29/82	635/29/89
N6RV/1	19/7/14	121/16/55	544/30/80	475/32/92	525/28/85	403/26/70
WM5G	15/8/11	103/18/34	446/32/94	390/33/92	348/31/91	580/31/91

### USA MULTI-OPERATOR SINGLE TRANSMITTER

K5NA	27/12/25	111/22/76	932/39/127	652/38/124	555/36/124	683/32/121
N3RS	36/16/35	190/22/79	727/35/120	613/39/143	603/37/132	663/34/124
K1RU	19/11/19	93/17/66	679/34/106	606/36/126	645/34/118	637/31/112
N4WW	29/13/26	106/22/61	685/34/112	544/37/118	666/36/116	618/34/113
K2TR	43/11/32	70/19/66	694/35/116	459/35/126	688/34/112	403/32/110
K1IU	21/8/17	129/19/68	482/34/105	404/32/120	568/33/109	543/32/111

### USA MULTI-OPERATOR MULTI-TRANSMITTER

N2RM	70/16/44	394/24/86	1058/36/124	1133/38/138	1397/37/137	1020/36/131
W3LPL	82/15/43	452/23/87	1063/37/131	909/39/138	1119/38/131	968/34/133
K1AP	58/12/37	423/25/88	766/39/128	1051/39/145	1251/37/132	812/33/124
K1ST	124/12/26	267/20/75	766/36/112	873/38/130	1102/37/118	755/32/119
K8CC	47/12/27	150/19/57	644/34/111	739/37/124	819/35/121	541/29/105
N6ND	107/12/17	378/27/54	721/36/115	634/38/117	584/32/107	551/33/99



Operating from a true shack, OH1JT put CR3A on the map.

Knocking off for supper and martinis! ... W4OO. I never heard Australia or much of the western Pacific. Congrats on a nice contest. I'm already looking forward to next year's event ... W4ZYT. This year I tried all bands again to celebrate my 80th birthday ... W6BIP (Many more, Bip! —ed.). Working JW8 on 40 ... W6JTA. First CQWW as K2DGT single op 40 CW 1959—still super fun ... W6GPU. After noting a drop in QSO rate, I found I had made three QSOs on dummy load! ... W0RXL. Those with computers should give a rpt if called "again," rather than refusing QSO ... WA2VYA.

Finally getting to HI8A through his pile-up ... WK3P (QRP champ with pile-up, the callsign sure adds dBs! —ed.). After first hour had to take 24 hrs off to retrieve family and repair the car ... AA5B. Had fun on 7 with new 2-element beam—62 countries ... K7ABV. No JA opening, few VE's, a 60 dB local—160 is sure fun! ... K0CS. First CQWW—Wow! What fun! ... KG5YA. Come on November 1992! ... NO8C. Tough cndx east & west; okay north and south ... W1LQQ.

### Station Operators Multi-Operator Single Transmitter

4U1ITU: VE5ZX, G4FNL. 4U1VIC: DF7RX, DK6WL, DK2OY, DL6RAI, DL6RDR, LX1II. A35MX: K1XM, K01F, K2WR. AA5OR & NA5Q, N5XIE. AA6TT/B & N0XX. AB2E & WT3Q. AG6D & AE8M, N6IP, N6YK, W6LVY. BY1PK: BZ1AA, BZ1AB, BZ1HAM, BZ1AG, BZ1AL. BY4AA: BZ2AA, Nizhuo-qing, Xu. BY4SZ: BZ4AAA,

## USA CLUB SCORES

Frankford Radio Club . . . . .	232,530,605
Yankee Clipper Contest Club . . . . .	201,487,931
Southern California Contest Club . . . . .	76,315,042
Potomac Valley Radio Club . . . . .	62,931,880
Northern California Contest Club . . . . .	59,371,303
Southwest Ohio DX Association . . . . .	44,388,991
Southeast DX Club . . . . .	35,183,327
North Coast Contesters . . . . .	30,836,727
Mad River Contest Club . . . . .	24,340,512
Society Midwest Contesters . . . . .	19,330,774
Texas DX Society . . . . .	17,736,829
Dixie Dxers . . . . .	17,208,576
North Alabama DX Association . . . . .	15,617,772
North Texas Contest Club . . . . .	14,659,935
Mile Hi DX Association . . . . .	13,209,440
Minnesota Wireless . . . . .	11,664,799
Left Coast Contest Club . . . . .	10,477,788
Central Florida DX Association . . . . .	7,757,717
N Ohio DX Association . . . . .	7,155,227
Oklahoma DX Association . . . . .	7,011,698
Mississippi Valley DX & Contest Club . . . . .	6,356,154
Order Boiled Owls NY . . . . .	6,029,784
Carolina DX Association . . . . .	5,676,194
Grand Mesa . . . . .	5,460,449
Southern California DX Club . . . . .	5,093,012
West Coast DX Ring . . . . .	4,879,552
Rochester DX Association . . . . .	4,834,716
Falmouth Amateur Radio Association . . . . .	4,430,146
Long Island DX Association . . . . .	3,840,376
Kansas City DX Club . . . . .	3,666,302
Western Washington DX Club . . . . .	3,494,033
Hossier . . . . .	3,230,431
San Diego DX Club . . . . .	2,853,931
Albany Amateur Radio Association . . . . .	2,781,081
Woodbridge Wireless . . . . .	2,710,832
North Florida DX Association . . . . .	2,637,034
Kentucky Contest Group . . . . .	2,536,385
Western NY DX Association . . . . .	2,462,721
Salt City DX Association . . . . .	2,308,033
Eastern Iowa DX Association . . . . .	2,266,205
Lone Star DX Association . . . . .	1,828,520
No Dot Dxers . . . . .	1,389,841
Great Dismal Swamp . . . . .	1,188,485
South Florida DX Association . . . . .	1,163,728
Amarillo DX Society . . . . .	1,131,185

North Texas DX Club . . . . .	924,051
Central Arizona DX Association . . . . .	790,012
New Jersey DX Association . . . . .	715,977
Middle Tennessee DX Club . . . . .	690,020
Redwood Empire DX Association . . . . .	681,406
Willamette Valley DX Club . . . . .	633,396
Overlook Mtn Amateur Radio Club . . . . .	592,391
Northern California DX Club . . . . .	568,093
West Park Radio Ops . . . . .	449,974
Naked Chicken Contest Club . . . . .	365,886
Dauberville . . . . .	340,731
Tri-city Amateur Radio Club . . . . .	288,303
Sterling Park Amateur Radio Club . . . . .	237,075
Delta DX Association . . . . .	196,933
Metro DX Club . . . . .	99,794
Thurston Amateur Radio Club . . . . .	77,553

## DX CLUB SCORES

Rhein-Ruhr DX Association . . . . .	94,138,183
Bavarian Contest Club . . . . .	46,138,149
OH DX Ring . . . . .	39,496,098
Ukrainian Contest Club . . . . .	21,656,761
Kaunas Polytechnical University . . . . .	20,712,140
French DX Foundation . . . . .	17,849,437
Kiev ICAE Radio Club . . . . .	14,197,524
Araucaria DX Group (PY) . . . . .	13,799,121
Grupo DX Panamericano . . . . .	13,065,944
Les Nouvelles DX . . . . .	12,792,873
Chiltern DXC(G) . . . . .	11,103,513
Alaska Dx Association . . . . .	9,265,023
Udmurtian Contest Club (UA4) . . . . .	6,046,859
Southern Germany DX Group . . . . .	5,099,312
Fraser Valley . . . . .	3,201,084
Taganrog Radio Club (UA6) . . . . .	2,689,284
YV DXperts . . . . .	2,177,810
Radio Club Cordoba . . . . .	1,705,993
Teuva Radio Club (OH) . . . . .	1,682,889
Tupy DXG (PY) . . . . .	1,282,693
GACW (LU) . . . . .	1,204,753
Prie Neries (LY) . . . . .	1,190,003
Rostov Radio Club . . . . .	1,138,550
Top European Contesters (SM) . . . . .	885,327
North Lithuania DX Group . . . . .	470,831
East-Bavarian DX Association . . . . .	419,356
Kremala Contest Group (LY) . . . . .	314,549
ARI Perugia (I) . . . . .	109,491

B24SBA, B24SBG. **C56N:** G3SXW, GM3YTS, K5VT, K7GE, NZ7E. **DA2UK:** DA20J, DA2QX, DL/F1MJD. **DF0B:** DJ8SW, DL5Z3D, DL2ZAE. **DF0OD:** DF8AE, DL1YAW, DL1YDI, CL4YBM.

**DF0LE:** DJ0MCH, DL2SDD. **DF0OD:** DL1BJL, DL1BJN, DL2BCO. **DF0RR:** Club. **DF3OG & DJ1FC:** DK2YI. **DJ4AX:** Club. **DK0MM:** DJ9CB, DJ8WL, DL1JFK, DL4FJ. **DKBTZ:** DJ5AI, DF3SV, DL1SBF, DF5EN. **DKBUU:** DL2MEH, DL1GRG, DL1GTT. **DL0LR:** DJ7PT, DJ3ZX, DL3WL, DF9R, DF1LX, DL1RF, DF4PM. **DL0SSB:** DL1EFO, DL1EFD, DK7PF, DL9YV, DL4JO. **DL0WH:** DF4ZK, DF6IH, DF3AC, DF7IT, DL2IAK. **DL0WW:** DL1HX, DJ8UV, DF1EY. **DL1SB & DL4AAE:** EA3KU & EA3AIR, EA3AVV, EA3DU, EA3DWX, EA3FER, EA3LL. **EA9EA & others:** E17TM: E13DP, E14DC, E16BT.

**FF3RM:** F5DTU, FF6GNL, F1FBB, FE1NL, FB1RTK, FB1S8Y, F11NRI, Van Cortenbosch. **FQ2M:** F5IN, F5OF, F6ARC, DL6GE. **G3VGG:** Club. **G4NCN & W3MA:** **GW8GT:** GW3KYA, GW3NWS, G3DAY, GW5NF, GW4TTU, GW4J8O, GW4LXO, G4VXE, GW6ZUO, GW0NAW, G4FIR, G4SRX, G4PKI, G4FAM. **HABKL:** Ferenczy, Racz, Kristof Kiss. **HASKTT:** HA5BVW, HA7JAI, HA5OI. **HAGZ:** HA6VV, HA6GD. **HAKK:** HA8FW, HA8EK, HA8FT, HA8DZ, HA8KH. **HA8KWE:** Pluhar, Beregszasz, Burda, Murvai, Wolf. **HG15:** HA1TU, HA1TD, HA1AH, HA1SV, HA1DAE, HA1DAC, HAITW, Farago, Barscay, Czirkos, Szilagyi, Osztas. **HZ1AB:** N4KT, SM0CXJU, WTSE.

**IKA1ZB & IK0PHU:** IK0IXI, IK0SVD, IK0MYQ, IK0MMI. **IL3VE:** IK3HAQ, IK3HZS, IK3DBH, IK3AR. **I04A:** I4OKO, I4EAT, I4IKW, I4IND, I4LCK, I4LEC, I4JEE, I4QJH, I4TE, I4VEQ, I4YRW, I4ZEU, IK4LZF, IK4DCT, IK4EWK, IK4EWK, IK4NDP, IW4ANU. **J37YL:** NM7N, NM4DK, VE7YL. **J43ZKK:** JH4PUL, JM3LK, JG3SXR. **JA3ZOH:** JE3MAS, JK3IV, JK3CDG, JN3QK. **JA7YAB:** JJ1NNJ, HH0MGJ, JQ1XV, JJ3FV, JA3-6363, JG3ENB, JN3IQJ, J67MAY. **JABY:** J01DFG, JB7MTI, JG8NFE, JH8PNE, JH8PNE, JR8WJS. **JAY9AV:** JH9ETC, JR9FNN, JA9-3017. **JE6ZIH:** JR66K7T, JF6DEA, JG6GNR, J16BRB, JG4KEZ, Narumi, Ryoki, Maki. **JG2YIW/2:** JF2WEQ, JE2PCY.

**JH5ZCP:** JA5AUIC, JA5IGX, JH5PHC, JR5JA0, JE5IVW, JA5AOC. **JH8YCT:** JR8XWU, JR8OMO, JE8URM, JE8JZK, JE8LGH, JM3GZG, K1UJ & KD2XS, KS1J, W1GL, NS11. **K1RU & K2SS:** K1YR. **K2SG & WA2SRO:** K2TR & WA2SPL, WA4VK, N2DU, N1CC, K2XA, K3ANS & K3YD, N3ED, NU3L, WA2MKM, K3DI & WD4IEH. **K3NL & K3JGJ:** K4FW & W9VW. **K4LTA & N8UM:** N1CWR, W4TYU, KN4NO, KR4C. **K5HKX & NV5L:** K5IU & N00P. **K5NA/2 & K2U0:** WB20, KY2J, NG2X, NA2N, K2UR, K20NP. **K8DD & AC8W:** KJ8A, N8COA, K9MK & K99W. **K4SW & K1G1:** K1GX, K1YRP, KC10, N4XR, WA1HYN. **KF8QF & KF8DF:** K1GX & N4EA. **KK9J & N29R:** KG9J.

**KL7AF & NL7UT:** NL7WA, NL7IV. **K53F & NE3F:** NK3Z, KU4J & WA4DPU. **LA1H:** LA4KQ, LA8UL, LA9O1. **LA2AB:** LA4DCU, LA9EEA. **L1Z1DP:** Myanev, L21N151. **L1Z1KT:** LZ1DZ, LZ1JH, LZ1MC, LZ1QD, LZ1DP, LZ1RT. **LZ9A:** L22CC, L2ZPO, LZ2DF, LZ2HE, LZ2UU, LZ2BE, LZ2WF, LZ2XA, LZ2ZM, LZ2TT, LZ2PS, LZ2II, LZ2NA, LZ2WM. **NK8F & A0A8:** N0PKX. **N3RS & NW3B:** WA3LRO, N3RD. **N4W8 & K0LUZ:** NX4N, KASAV, WA6DGX. **N5EA & W5AP:** NV6O. **N9ZA & WB2AOH:** DE1XWU. **OE1TKW:** DE1TKW, DE1JNB, DE1MCU. **OE3XCW:** OE1GAS, OE3CHC, OE3PUW. **OH2AG:** OH2LU, OH2OF, OH2GI, OH2SS. **OH3ES & OH3MEP:**

O13XF. **OH7AAC:** OH7MS, OH17MCA, OH7MHL, OH7LNI, OH7WV, OH4MJ. **OK1KQJ:** OK1AYP, OK1BY, OK1CM, OK1MR, OK1JKX. **OK1PT:** Club. **OK2KDS:** OK2WB, DK2-22266, OK2-32906. **OK2KOD:** OK2BD, OK2BR, OK2BNX, OK2PD. **OK2KV:** Club. **OK3KAG:** OK3CGN, OK3CIR, OK3DX, OK3TRU, OK3TIZI, OK3WDX, OK3ZEM. **OK3KUN:** Club. **OK3KXR:** OK3YDP, OK3CVB, OK3CN. **OK3RD:** OK3CHH, DK3-28015. **OK5W:** OK1AEZ, OK1JB, OK1CF, OK1JKT, OK1WT, OK1AIU. **OK5KTU:** Club. **ON6AH & ON4GO:** ON6MH, CN6GO, ON7ZLQ, ON7PC, ON9CMB, ON5PV.

**ON7LR:** ON1ARZ, ON1AVZ, ON4ABW, ON4AEU, ON4ALW, CN4AMI, ON4APA, ON4ASB, ON4AWU, ON4DB, ON4EX, ON4WD, ON4WW, ON5DH, ON5FF, ON5OT, ON5SH, ON6BY, ON6EV, ON6FX, ON6LK, ON6MR, ON6VK, CN7CS, CN/S, CN/SE. **ON21OXZ:** C2ZDL, OZ8AE. **025EDR:** 021BBM, OZ1BQQ, OZ5AM, C2ZABD, OZ5ABN, OZ8SW. **P4N6BT:** N6BT, WB2Z, N6TV. **PABKHS & PA3ENJ:** PA6DZ: PA6COR, PA6ERA, PA3AV, PA3BFM, PA3CTM, PA3DUA, PA3DWD. **P14SHB:** PA6SHY, PA3FCD, PA3FFF, PA3FXU. **P14ZLD:** PA3EOD, NL-8884, NL-10895. **RB41WE:** UB41RI, UB5-073-4328, UT5SI. **RL0L:** RA9AD, RA9AM, UL7LEB, UL7LER, UL7LEZ, UL7LT, UW3AA, UW9AR. **RW0CW:** UW0CN, UW0CA, UW0CR, UA0CDX, UA0CZ, UA0CR, SP3RBL, SP5ING, DJ0IF.

**RK3ARM:** UA3-151-6/0, UA3-157-210, UA3RMK, UA3RFC, RA3RFH, RY0B: Pavlik, Denzenko. **RY0B:** RB5QNA, RB5QNV, RB5QRD, PB5WQ, SB5WQ, UB5WU, UB5WN, UY5ZM. **RY5L:** UB4LNC, UB4IUF. **RZ1IA:** UV1AA, RV1AW, UW1AE, UA1BX, UA1ALZ, UA1ARL, UA1AKC, UA1ABR, UA1ATD, UA1-169-132, UA1-169-2475, KA1WPW. **RZ6AX0:** UV6A0E, UV6A0W, UA6YHF, RA6AX, UV6ACW. **RZ6AZZ:** RZ6AGG, UA6GDL, UA6-101-355. **SK0W:** SW0KWS, SM0SNL. **SK1PW:** SM1ALH, SM5GLC, SM4HAK, SM10II, SM1PCC, SM1TDE. **SK6TW:** SM0CXM, SM6AOU, SM6CPY, SM6DOI, SM6DER. **SL0CB:** SM0DRD, SM3LGQ, SM3NSJ, SM5NZY, SM0RW. **SN3A:** SP3GEM, SP2FWC, SP3ASN, SP3JHL, SP3HRM, SP3RBI, SP3RBL, SP5ING, DJ0IF.

**SN3N:** SP3FHV, SP3FIR, SP3FPF. **SP3KPN:** Club. **SV4AAQ & SV4AFY:** T77C: IK4HLO, PA3DFT, PA0GAM. **TK6C:** F6BBJ, F6HSV, TK5EP. **TV6MN:** F6AXX, F6BOY, F6IE, F6HBR, F1THEW, FD1OYC, FD1OTD. **UB3IWA:** UB5IOK, R65II, UB5IKF, UB3IBZ. **UB4EYT:** UB4 060 90, UB4 060 175. **UB4MWU:** UB5MBM, UB5MRE, UB5MRE, Reva. **UB4WZA:** UB5WCX, UB5-068-996, UB5WBY. **UB4ZWK:** RB5ZC, UB5MZM, UB5ZLZ. **UC1CWB:** UC2-009-130, UC2CEI, UC2CEO. **UD0Z:** RF5F, UB5FBV, UB5OB, UB4FA, RB5FT, RB5ZM, U05WU, RB5FA.

**UT4UXW:** UT5ULY. **U0CIT:** U02FF, UA2FF, UA2JF, UA2FM, UA2FZ, RA2FA, RC2AB, RC0XK. **UX9C:** UV9CP, RW9CW, UA0CBM, UA9C0B, UV9CCY. **UZC0WW:** UA0CHW, UA-B11-530, UA0CF. **UZBCXD:** UA0CR, UA0CID, UA0CKA. **UZ1AWO:** UA1-169-2391, UA1-169-900. **UZ1HWY:** UA1NAW, UA1NDX, UA1NDY. **UZ1OWZ:** UA1OZ, UA1OMS, UA1-113-244, UA1OIZ, UA1-113-630. **UZ1TWC:** UA1TFG, UA1TAN, UA1-144-1068. **UZ1TWW:** UA1GA, UA1TAL, UA1TB, UA1TBT. **UZ3AWR:** Isakov, Bojchenko. **UZ3WWA:** UV3WU, RW3W, UV3WT. **UZ3XW8:** Vic Kabakov, Barsky, Mararov, Murashkin, Safonov, Val Kabakov, Haritonov. **UZ4PWW:** RA4PO, UA4-094-976, UA4-094-973, UA4PBZ. **UZ4WWA:** UA4WA, RW4WA, UA4WAZ, UA4WAN. **UZ4WWB:** UA4WHW, UA4WGU, Kosarev, Klepanov.



WORLD TOP 10 ORPn

## All Band

1. HI8A	3,316,768	6. N4KG	536,157
2. DK3GI	1,359,280	7. DA1SJ	531,300
3. 4A2MX	724,785	8. IK8EJN	463,143
4. AA2U	719,136	9. OK3CUG	314,839
5. G4BUE	702,117	10. N7IR	286,456

## **TOP 10 SINGLE OPERATOR ASSISTED All Band**

1. N4RJ	4,481,038	6. W1RR	2,879,104
2. K3WW	3,330,771	7. W3XU	2,817,485
3. WR3E	2,997,498	8. AA2Z/1	2,762,535
4. N3AD	2,924,540	9. K2SX/1	2,267,397
5. AD1C	2,897,988	10. N2MM	2,170,158

## **TEAM CONTESTING**

- 1. Southern California Contest Club Team #3—32,187,067.** By IR8A (N6TJ), TI1C (N6NTR), 9Y4H (K6NA), ZP0Y (WN4KKN), and KP2A (N6CW).
  - 2. Southern California Contest Club Team #1—23,285,093.** By AS7/N6AA, 7Q7TT (N6ZZ), CT4A (W6NV), HC1OT (W6XD), and IS0QDV (AH3C).
  - 3. Frankford Radio Club—23,198,810.** By P40W (W2GD), 6V6U (K3IPK), V47KP (K2DOX), N2NT, and K3OO.
  - 4. Southern California Contest Club Team #2—9,048,140.** By 6D5X (K5TSQ) and HC5M (CT1BOH).
  - 5. Russian Bear-Babies—3,340,946.** By UA3DPX, UV3HD, RZ9UA, and UA3DQH.

Number groups after call letters denote following: Band (A = all), Final Score, Number of QSOs, Zones, and Countries. An asterisk before a call indicates low power. Certificate winners are listed in **boldface**. (Also note that the use of the term "USSR" in these results reflects the DXCC list at the time of the 1991 contest. The 1992 contest and results will reflect the political changes since that time.)

**CW RESULTS  
SINGLE OPERATOR  
NORTH AMERICA**

United States

CM1H	A	4,969,248	2910	149	443
W1KM	"	4,133,454	2399	148	443
K1CC	"	3,875,538	2289	146	436
N6BV/1	"	3,211,070	2087	139	396
W1PH	"	2,644,608	1570	141	441
K5MA/1	"	2,505,350	1652	138	387
WIWEF	"	1,868,730	1320	131	370
W1NG	"	1,828,096	1104	147	445
KC1SJ	"	1,448,450	1407	127	364
W1QO	"	1,410,808	1037	122	350
K1TN	"	1,214,124	867	119	379
NAKR/1	"	969,650	729	116	355
W1BR	"	931,816	754	119	314
W2AX/1	"	856,329	759	106	291
K1EBY	"	633,640	618	97	268
KA1DNX	"	516,736	515	102	265
W1WI	"	470,112	483	122	252
KS1L	"	234,910	312	79	199
W1BYH	"	114,234	188	77	164
A1E/3	"	112,487	204	56	141
WE6G/1	"	05,462	208	55	121
KA1VWH	"	04,430	219	57	120
W1PL	"	92,000	189	53	121
K1MD	"	77,598	172	51	111
KA5GJS/1	"	66,768	160	52	104
K1MBO	"	27,455	102	34	61
W1CNU	"	18,761	122	50	161
KA1UKR	"	16,065	70	32	53
NT1Q	"	10,362	61	23	43
					(Op: W1XG)
W0II	"	3,645	30	18	27
WS1M	28	163,609	528	25	84
NZ1D	"	1,815	23	12	21
K1RM	21	562,624	1289	35	114



*JR72MP	A	330,220	621	75	115	*UAS9XAC	"	235,076	388	60	169	Czechoslovakia	"	235,913	505	57	202	*OH2YL	"	14,885	92	22	43		
*JA7CPW	"	128,488	372	64	133	*UASAKS	"	183,464	427	33	119	OK1ALW	A	2,650,158	2097	146	421	*OH2BC	"	10,890	80	20	46		
*JA7ASD	"	79,180	189	64	84	*UASWNF	"	75,089	230	36	83	OK3CND	"	1,920,164	1822	134	380	*OH1MKT	21	123,879	569	31	88		
*JE7GRW	"	27,819	123	43	56	*UASLE	21	3,572	34	13	25	OK1ARH	"	646,170	1162	86	276	*OH3NWX	"	112,926	511	31	87		
*JA7AMK	"	2,162	32	10	13	*UABJAO	A	97,955	462	65	78	OK2EC	"	602,096	1010	77	234	(Op. OH3MMF)							
*JH7CJM	28	44,109	170	31	56	*UW8ST	"	10,004	104	25	36	OK2EC	"	493,620	875	79	206	*OH27QJ	"	23,965	136	36	81		
*JA7MSQ	"	17,874	113	24	30	*UAZDK	14	19,824	240	20	36	OK1KT	"	342,048	524	94	336	*OH27AQ	"	21,800	110	35	65		
*JA7AXP	"	6,624	55	18	28	*L2Y3Y	A	288,420	508	81	204	OK2PB	"	288,420	508	81	204	*OH27AZ	"	12,750	128	19	66		
*JR7CDL	21	56,028	233	25	62	*UD6DF	28	69,560	300	28	66	OK1MN	"	207,44	943	33	104	*OH8NLC	"	69,229	334	28	79		
*JA7VEI	"	26,791	139	26	47	*UD6DF	21	65,200	289	22	58	OK2PA	"	194,480	410	62	198	*OH1RZ	"	45,732	168	31	80		
*JA7TEC	"	13,806	86	23	36	*UD6DF	"	49,980	235	25	60	OK3IA	"	186,296	384	161	232	*OH6MUE	"	36,769	269	22	61		
*JE7JRD	7	1,343	34	7	10	*UAZDK	14	19,824	240	20	36	OK1MKU	"	185,969	452	54	163	*OH8LCL	"	32,936	190	24	68		
JABRWU	A	201,520	334	86	134	*L2Y3Y	A	19,824	240	20	36	OK1ALQ	"	134,495	419	48	137	*OH7NVU	"	25,550	241	21	52		
JE8MF	"	74,074	193	61	93	RFFFM	3.5	30,360	236	11	35	OK2BND	"	129,748	496	52	147	*OH8LEO	"	8,250	68	18	48		
JH8WBR	"	71,589	178	60	87	RFFFM	"	30,360	236	11	35	OK2BZU	"	122,474	356	58	151	*OH28R	"	7,590	89	16	39		
JABRUZ	21	162,624	610	30	66	Kirghizia	"	119,952	231	77	161	OK2CBI	"	24,464	128	33	55	Dodecanese	"	10,940	117	28	77		
JABRUI	"	588	12	9	11	*L2Y3Y	A	216,320	796	30	74	OK2CPO	"	13,892	56	38	54	*OH9UW	14	117,832	699	27	77		
*JA8AJE	A	158,240	337	75	95	UM8DX	14	216,320	796	30	74	OK2CPO	"	18,645	343	68	184	*OH6MM	"	23,725	202	19	54		
*JA8HBC	"	70,623	200	57	76	UM8MBA	7	49,980	235	25	60	OK2CPO	"	185,969	452	54	163	*OH6YLS	"	22,050	214	17	46		
*JABCJY	21	48,875	210	28	57	Kazakhstan	"	19,824	240	20	36	OK1KT	"	194,480	410	62	198	(Op. OH6CD)							
*JG8PBE	"	4,096	50	13	19	*L2Y3Y	A	19,824	240	20	36	OK1KT	"	186,296	384	161	232	*OH8LCL	"	24,012	182	22	65		
JAGCWJ	A	374,752	586	84	140	UL78N	A	602,241	743	82	227	OK1KT	"	185,969	452	54	163	*OH8LCL	"	10,557	147	11	40		
JAKKHU	"	54,320	152	45	67	RL7LW	21	356,402	1134	30	91	OK1KT	"	194,480	410	62	198	*OH9FH	"	6,360	61	12	48		
JAY9YE	"	30,634	109	37	69	RL7AC	3.5	27,755	223	13	41	OK1KT	"	186,296	384	161	232	France							
JAB9BH	3.5	13,294	125	19	27	UL78D	1.8	98,344	477	14	62	OK2CPO	"	19,824	240	20	36	England							
JAD0OF	"	1,088	33	9	7	*L2Y3Y	28	68,400	354	24	51	OK2CPO	"	18,645	343	68	184	*G3MJX	A	2,637,356	2216	137	445		
*JA9XBW	A	192,960	406	68	124	*L2Y3Y	21	111,072	467	26	78	OK2CPO	"	17,362	230	29	74	*G4BUO	"	2,711,475	2211	128	429		
*JAG9CDE	"	735	15	9	12	*L2Y3Y	A	602,241	743	82	227	OK2CPO	"	13,892	56	38	54	*G3TXY	"	2,021,400	1621	141	459		
*JH9KVF	21	73,566	295	30	58	Tajikistan	"	119,952	231	77	161	OK2CPO	"	13,892	56	38	54	*G3NKS	"	1,075,076	1476	93	304		
*JAT9SI	"	64,504	273	30	58	*L2Y3Y	A	216,320	796	30	74	OK2CPO	"	18,645	343	68	184	*G4BEE	A	2,658,796	1955	142	411		
JABHC	A	111,414	242	78	108	UJBJA	21	186,912	550	30	102	OK2CPO	"	18,645	343	68	184	*F5IG	"	458,145	84	25	220		
JANGZ	"	6,431	47	30	23	UJBJI	7	189,516	770	29	73	OK2CPO	"	18,645	343	68	184	*F6GKQ	"	420,162	663	79	214		
JABZRY	28	188,598	645	33	69	Turkmenistan	"	111,072	467	26	78	OK2CPO	"	18,645	343	68	184	*F6EQV	"	215,758	480	63	170		
(Op. JP1060)																									
JABZRY	21	370,388	1072	35	89	RH8E	A	5,856,136	4304	123	356	OK2TBC	A	479,520	660	95	229	*F6DOL	"	77,773	284	50	124		
JH8EPI	"	55,872	328	22	42	(Op. JR8BQD)	"	3,031	108	14	35	*OK1EP	"	386,334	491	90	248	*F6ERZ	"	67,298	219	45	109		
JR8EQ	"	18,720	95	23	43	RH8E	A	46,610	180	47	71	*OK1EP	"	357,245	637	73	217	*F6FZV	"	37,659	1183	33	114		
JEW8WIS	"	4,223	59	12	15	RIBAD	28	315,372	1088	32	91	*OK1CYA	"	296,970	674	65	219	*F6EQL	"	40,165	142	45	88		
JABQNJ	14	111,550	408	31	65	RIBAD	"	46,610	180	47	71	*OK1CYA	"	194,192	640	46	166	*F6FQ	"	40,795	604	12	50		
JADTHQ	"	2,304	26	14	18	RIBAD	"	46,610	180	47	71	*OK1CYA	"	183,954	367	73	217	*F6FQ	"	40,795	604	12	50		
JABUVM	7	55,242	219	28	65	RIBAD	"	46,610	180	47	71	*OK1CYA	"	260,148	631	65	191	*F6FQ	"	40,795	604	12	50		
JHDHZQ	1.8	1,760	31	12	10	RIBAD	"	87,444	907	15	69	*OK1DXW	"	123,984	416	53	136	*F6FQ	"	15,925	98	15	50		
(Op. JH1BBT)																									
Jordan																									
JY8VJ	A	5,927,480	3948	124	396	Austria	"	168,875	400	67	158	OK1CMB	"	72,504	361	34	118	Estonia							
(Op. DL1VJ)																									
Korea																									
HL9HH	A	152,958	273	89	133	Balearic Islands	"	205,128	760	34	98	OK1CMB	"	16,020	93	51	154	Faroë Islands							
9K2ZZ	A	342,930	569	64	146	Mongolia	"	40,720	268	18	62	OK1CMB	"	20,056	195	19	73	Finland							
JT7AB	A	138,800	609	33	67	EAE9NRA	A	3,837,915	3611	129	392	OK1CMB	"	96,655	357	30	87	DL3YBM							
JT1CS	14	112,918	612	27	59	EAE9ZS	"	70,035	270	40	105	OK1CMB	"	40,744	192	27	61	DL3YBM							
Pakistan																									
*AP/WAZWYR	14	13,608	115	27	45	EAE9AAK	A	180,306	484	50	109	OK1CMB	"	13,845	69	27	44	Germany							
Saudi Arabia																									
HZ1HZ	A	2,432,730	1978	184	311	EAE9AKM	A	1,8	41,076	169	39	87	OK1CMB	"	11,507	155	14	59	DL2NBU	A	1,545,930	1589	130	404	
4S7/N6AA	A	3,567,320	2805	143	362	EAE9AKM	"	181,144	160	21	60	OK1CMB	"	11,293	155	14	59	DJ5JH	"	1,100,440	1167	108	343		
9M2AX	1.8	56																							

Isle of Man													
DL1HOM	14	246,784	1098	31	97								
DF9LJ	3.5	116,885	747	21	76								
DK3QJ													
"Y2AVD	"	58,805	516	15	65	*GD4UOL	A	1,314,405	2045	89	324		
Y2AEC													
"DA1DC	"	16,224	189	13	33	Italy							
DL20BF	A	1,001,376	1254	99	333	IR8A	A	2,507,760	2767	123	363		
"DA1DC	"	622,667	894	83	268			(opr. NBTJ)					
"Y8AVD	"	552,610	811	96	269	IK1GPG	"	467,418	630	97	262		
"Y21XC	"	421,890	620	85	258	IK2AHB	"	308,914	606	73	184		
"DL1NCT	"	439,475	826	79	185	IK3FDZ	"	255,429	477	86	217		
"DJ0IP	"	356,850	636	78	241	IK3HY	"	155,428	420	51	131		
DL8WD	"	311,741	571	74	183	IK8ADY	"	138,580	343	58	147		
"Y27WI	"	303,841	533	72	221	IK2BLA	"	84,252	179	75	129		
DL1TH	"	274,320	610	66	188	IR0FK	"	78,765	209	61	116		
DF4ZL	"	254,597	520	73	185	IK3HUG	"	60,928	240	36	76		
DF3CL	"	219,042	467	71	212	IK6BOB	"	25,179	81	43	66		
DK8FS	"	211,400	413	72	208	I2HVE	28	234,234	718	37	106		
"Y23RJ	"	133,024	514	61	195	IK1DML	21	21,168	153	24	60		
DL1QZ	"	173,201	450	57	173	I3JSS	14	539,232	1865	38	126		
Y42DA	"	159,371	377	63	183	I8IA	"	164,118	1054	28	74		
DK7ZH	"	138,356	247	63	143	IK0FWI	"	9,168	140	12	36		
DK8FD	"	131,178	255	56	142	I8FSP	"	7,452	141	2	34		
"Y26FI	"	98,490	227	63	182	I3VHO	3.5	86,663	758	18	61		
DF7TU	"	86,100	321	45	119	I7ALE	"	53,541	501	5	66		
"Y23HJ	"	75,869	198	59	143	I6ZUT	"	25,568	370	2	56		
DL4FJ	"	53,448	300	47	107	I2KAIT	A	111,456	325	47	125		
"Y22JA	"	47,124	112	55	99	I8K1PMF	"	67,375	157	61	114		
DL8IH	"	39,849	140	40	71	I2K2PC	"	48,764	150	51	95		
Y41PN	"	34,917	194	40	63	I8K1FV	"	21,576	156	29	58		
DF3CN	"	33,669	190	34	95	I8K1PNP	"	18,642	116	34	44		
DL1XAS	"	33,480	164	36	72	I8K2CHL	"	540	18	7	11		
"Y38YE	"	26,166	151	28	70	I1XPO	28	123,806	477	30	73		
DL1VBN	"	17,479	89	33	44	I1LGR	"	21,682	126	26	48		
DL2S8Y	"	17,292	100	24	64	I6NWX	"	16,748	128	18	35		
DL2VLA	/P	15,879	126	23	44	I8K0CNA	21	42,928	337	19	50		
"Y56VJ	"	12,150	62	34	47	I8K2ILG	1.8	720	38	4	16		
Latvia													
PA0CLN	"	979,050	1270	105	312	PA0FHOR	"	100,033	307	52	115	*SP6PAX	"
PA0FNE	"	92,320	348	46	144	PA0JUV	"	64,758	217	43	86	*SP5OXJ	"
PA0JUV	"	44,289	171	44	89	PA0BTH	"	44,289	171	44	89	*SP8KEA	"
PA0BNH	"	4,410	78	14	35	PA0ZEN	7	25,900	246	15	55	*SP5GF7	"
PA0CYW	3.5	5,551	49	13	48	PA0BUD	"	714	12	10	11	*SP5MBA	"
PA0PWW	1.8	7,774	165	6	40	PA0WIV	1.8	7,774	165	6	40	*SP8MJ	3.5
PA0EZF	A	101,875	275	44	81	PA0ZEL	A	101,875	275	44	81	*SP5GH	1.8
PA0ZEN	"	11,400	80	23	53	PA0DUX	"	10,400	80	23	53	*PA0PNU	"
PA0PLN	"	9,500	145	13	37	PA0BEJ	7	806	24	7	19	*PA0BEJ	7
Portugal													
PA0BYK	A	13,440	88	17	43	PA0BYK	A	13,440	88	17	43	*PA0BYK	21
Svalbard													
JW9XG	A	574,868	1179	71	125	JW8XM	7	217,464	957	28	76	(opr. LA9XG)	
JW8D	1.8	8	2	2	2	JW8D	1.8	945	27	5	16		
Sweden													
JW9XG	A	574,868	1179	71	125								
Northern Ireland													
YQ2FA	A	505,437	1023	87	244	YQ4NF	21	339,160	1402	34	88	JW8XM	7
YQ4NF	21	20,832	142	26	58	YQ3FF	14	20,590	164	17	41	JW8D	1.8
YQ7CFD	7	14,450	169	21	53	YQ4AB	3.5	48,990	617	16	53		
YQ4AB	3.5	10,325	135	11	48	YQ2ARV	A	73,843	382	30	107	SM5AOE	A
YQ3FF	14	9,630	176	10	35	YQ5DAS	"	21,500	179	27	73	SM5CLE	"
YQ7CFD	7	8,866	134	9	17	YQ2CJX	"	4,256	115	8	30	SM3DMP	"
YQ4AB	3.5	8,000	130	14	51	YQ8BUD	"	1,305	146	15	51	SM5RC	"
YQ3FF	14	7,200	136	12	41	YQ8BHG	28	29,842	160	28	58	SM5BJI	28
YQ4AB	3.5	6,500	132	11	41	YQ6LV	"	20,460	123	22	38	SM3PZG	"
YQ3FF	14	5,800	129	10	37	YQ8CDC	14	15,194	148	12	59	SM0DZH	"
YQ4AB	3.5	5,300	128	10	37	YQ5OAG	7	14,450	144	15	48	SM0KVJ/B	21
YQ3FF	14	4,800	127	9	35	YQ4AAC	"	10,325	135	11	48	SM5INC	"
YQ4AB	3.5	4,300	126	9	35	YQ3FRI	"	9,630	176	10	35	SM0HNN	"
YQ3FF	14	3,800	125	8	34	YQ2ARV	A	6,344	497	21	71	SK0BX	14
YQ4AB	3.5	3,300	124	8	34	YQ2ARV	A	326,340	1140	35	113	(opr. SM0JHF)	
YQ3FF	14	2,800	123	7	33	YQ2ARV	A	212,624	844	35	102	SM0IW	"
YQ4AB	3.5	2,300	122	7	33	YQ2ARV	A	118,021	579	29	78	SM3ZV	"
YQ3FF	14	1,800	121	6	32	YQ2ARV	A	84,564	522	25	56	(opr. SM3UJR)	
YQ4AB	3.5	1,300	120	6	32	YQ2ARV	A	35,931	251	21	66	SM2JEB	"
YQ3FF	14	800	119	5	31	YQ2ARV	A	28,120	948	45	163	SM4BNZ	7
YQ4AB	3.5	500	118	5	31	YQ2ARV	A	40,092	264	24	54	SM5BAX	"
YQ3FF	14	300	117	4	30	YQ2ARV	A	71,875	323	39	112	SM6MCW	3.5
YQ4AB	3.5	200	116	4	30	YQ2ARV	A	140,824	920	25	84	SM6DYK	"
YQ3FF	14	150	115	3	29	YQ2ARV	A	93,198	759	21	77	SM6CMR	1.8
YQ4AB	3.5	100	114	3	29	YQ2ARV	A	5,985	104	9	36	SM5AD	A
YQ3FF	14	50	113	3	29	YQ2ARV	A	305,030	631	67	168	SM0COP	"
YQ4AB	3.5	30	112	3	29	YQ2ARV	A	504,754	822	91	268	SM2BZE	"
YQ3FF	14	20	111	3	29	YQ2ARV	A	263,450	562	73	202	SM3CVM	"
YQ4AB	3.5	10	110	3	29	YQ2ARV	A	181,250	312	82	208	SM6BSK	"
YQ3FF	14	5	109	3	29	YQ2ARV	A	7,101	130	17	32	SM7TRA	"
YQ4AB	3.5	0	108	3	29	YQ2ARV	A	142,590	534	54	140	SM0BDS	"
YQ3FF	14	0	107	3	29	YQ2ARV	A	19,998	106	29	72	SM7TQE	"
YQ4AB	3.5	0	106	3	29	YQ2ARV	A	5,500	49	21	23	SMATU	"
YQ3FF	14	0	105	3	29	YQ2ARV	A	5,500	49	21	23	SM5DUD	28
YQ4AB	3.5	0	104	3	29	YQ2ARV	A	16,756	110	24	47	SM5PPS	"
YQ3FF	14	0	103	3	29	YQ2ARV	A	637	31	4	3	SM5NBE	21
YQ4AB	3.5	0	102	3	29	YQ2ARV	A	71,984	333	22	66	SM4MBW	"
YQ3FF	14	0	101	3	29	YQ2ARV	A	31,691	245	20	47	SM0NEJ	"
YQ4AB	3.5	0	100	3	29	YQ2ARV	A	30,094	200	14	39	SM7LAZ	"
YQ3FF	14	0	99	3	29	YQ2ARV	A	6,612	80	12	26	SM2CDF	14
YQ4AB	3.5	0	98	3	29	YQ2ARV	A	37,018	225	24	59	SM7AHW	"
YQ3FF	14	0	97	3	29	YQ2ARV	A	27,702	245	20	61	SM6GHR	"
YQ4AB	3.5	0	96	3	29	YQ2ARV	A	22,330	214	19	58	SM7TV	"
YQ3FF	14	0	95	3	29	YQ2ARV	A	18,000	177	15	45	SM2JWH	"
Iceland													

HE7DDZ	28	35,955	171	27	58	Moldova		*YT22G	"	43,394	194	38	98	Brazil		531,300	#111	75	233									
HB9DX	21	31,784	107	33	104			*YT22O	"	1,764	25	17	19	DA1SJ	"	(Op. KB8B)												
HE7AJ	7	49,130	384	21	64	R040A	A	1,218,905	1348	123	342	*YU1HA	21	89,870	418	28	82	ZX2F	A	600,972	1150	51	122					
*HE7PO	A	33,552	233	35	109	U050A	"	302,388	856	64	162	*YU3P6	14	59,190	514	29	101	(Op. PY2FN)		IK8EJN	"	463,143	1000	54	199			
*HE7OA	"	11,880	69	36	54	U050N	7	14,526	160	13	41	*YU3TW	"	12,336	122	16	43	OK3CUG	"	314,833	725	69	218					
*HB9						UC5GR	3.5	4,800	72	10	38	*YU4TG	3.5	18,073	318	8	45	N7IR	"	286,456	429	93	161					
/DK7XT	26	5,922	141	12	30	U050LW	7	7,450	61	16	34	*YU3MF	"	17,009	142	13	60	P29DK	"	272,630	682	59	78					
<b>U.S.S.R.</b>																												
<b>Belorus</b>																												
RC2AZ	A	1,841,556	1909	128	364	UT4UX	A	1,994,481	2078	131	370	UT5EX	"	667,875	1038	99	276	PY5BLG	"	236,368	468	59	117					
UC2OT	"	1,132,989	1613	103	314	U85EF	"	377,466	750	76	242	UT5TE	"	366,202	795	70	213	PY4VG	"	144,452	500	39	59					
UC2OM	"	23,639	184	25	52	U85HY	"	143,565	552	75	180	U841WI	"	138,105	309	45	100	PY3LHB	"	15,812	89	27	40					
UC2OL	28	157,852	510	33	91	UT5HP	"	112,914	192	89	157	U840WC	"	25,244	130	48	89	PY3CPJ	"	15,368	85	24	44					
UC10WA	"	21,248	218	19	45	U85ET	"	65,930	227	55	130	(Op. UC2AJM)					PY2SP	"	13,213	65	30	43						
RC2AY	3.5	51,208	586	13	61	U85KZG	"	1,288	85	21	43	(Op. UB4ICA)					PY2ERA	"	9,041	102	48	65						
UC1AWK	"	50,954	584	14	59	U85VCG	"	8,568	129	13	43	(Op. RU80D)					ZY5EG	28	810,509	1960	35	104						
RC2AJ	"	17,250	297	50	345	U85VTK	"	184,020	652	33	107	U85WT	"	176,981	739	32	99	(Op. LU80D)					JAEVZB	"	201,810	357	77	140
UC2OF	"	8,528	195	8	33	U85VX	"	18,026	227	55	130	U85Y	"	17,716	90	24	52	LY1DS	"	181,692	498	68	184					
UC2IEF	1.8	9,282	218	6	36	U85ZK	"	1,288	85	21	43	(Op. RU80D)					PABADT	"	150,588	464	46	142						
*UC2OV	A	120,355	411	47	152	U85ZK	"	8,568	129	13	43	(Op. RU80D)					SP2FAP	"	148,410	282	83	172						
*UC2ADX	28	101,568	322	34	104	U85ZM	"	314,226	933	35	103	U85ZLJ	21	188,020	652	33	107	U85ZM	"	147,346	352	68	174					
*UC2WJ	14	384	10	6	10	U85ZN	"	18,026	227	55	130	U85ZP	"	17,716	90	24	52	UB4IM	"	147,084	490	46	156					
*UC2WG	7	3,959	90	7	30	U85ZQ	"	176,981	739	32	99	(Op. RU80D)					Y26D	"	137,735	475	39	124						
<b>European Russia</b>																												
UV4AB	A	981,648	1566	99	302	U85ZT	14	435,862	1542	37	125	U85ZU	"	143,895	320	56	103	JA1GTF	"	123,228	358	54	109					
RZ6LG		710,800	896	99	301	U85ZV	"	308,136	1254	36	112	U85ZW	"	85,008	150	54	84	UA5SG	"	119,024	444	47	125					
RA6LW	"	693,840	1052	108	284	U85ZX	"	115,994	88	25	89	U85ZY	"	14,285	70	19	42	U85ZAAW	"	119,024	444	47	125					
RA1TE		638,250	1078	95	275	U85ZB	"	219,760	818	36	98	U85ZC	"	12,336	122	16	43	UA5DFW	"	84,450	305	65	150					
U44LQ	"	553,176	993	98	253	U85ZD	"	45,061	259	17	70	U85ZE	"	14,285	70	19	42	UA1NDV	"	118,150	355	52	118					
RA4WR	"	548,361	733	99	220	U85ZF	"	14,841	185	11	40	U85ZG	"	11,628	79	27	30	L2HFA	"	73,128	271	37	95					
RA4HX	"	477,888	896	81	223	U85ZH	3.5	171,798	1083	28	86	U85ZI	"	1,288,196	358	145	303	Y03CR	"	69,994	276	41	117					
RA3LB	"	233,496	476	71	205	U85ZJ	"	68,328	657	16	62	U85ZK	"	2,388,179	1952	136	283	D1LQDY	"	53,440	196	54	106					
RA3NC	"	170,419	883	55	138	U85ZL	"	34,272	420	13	55	U85ZM	"	405,964	931	69	79	L2HMM	"	53,016	294	33	109					
RA3VR	"	113,040	307	55	175	U85ZN	"	2,912	91	6	26	U85ZP	"	1,054,060	1143	114	203	Y04RDN	"	51,500	300	23	102					
UA4YHG	"	68,016	644	19	59	U85ZQ	1.8	4,323	110	7	26	U85ZS	"	5,460	72	12	14	PA0PUR	"	42,460	176	40	70					
UA4JAU	"	43,434	244	31	96	U85ZT	"	349,751	516	99	268	U85ZU	"	99,870	418	28	82	Y3D9Y	"	35,712	113	46	78					
UA4QK	"	41,064	167	39	77	U85ZV	"	208,080	325	95	194	U85ZW	"	14,285	70	19	42	J4TAJD/8	"	31,977	117	44	55					
UA4WFA	"	34,992	234	28	80	U85ZX	"	125,800	212	88	177	U85ZY	"	1,288,196	358	145	303	Y25MN	"	17,640	157	27	71					
UA1CBE	"	17,028	88	31	68	U85ZB	"	114,492	288	62	126	U85ZC	"	1,288,196	358	145	303	Y26SW	"	15,045	101	24	27					
UA3LCC	"	13,524	93	31	61	U85ZD	"	89,142	418	33	130	U85ZE	"	1,288,196	358	145	303	CE3BFZ	A	272,415	574	64	101					
UA4SJ	"	8,040	82	21	46	U85ZF	"	77,356	233	55	111	U85ZG	"	1,288,196	358	145	303	CE3DNP	28	1,082,304	2615	34	110					
UA4CJJ	28	240,265	685	35	110	U85ZP	"	73,141	220	62	111	U85ZQ	"	5,460	72	12	14	CE4HIY	"	55,374	577	25	41					
UW6MA	"	165,536	741	28	84	U85ZV	"	42,908	128	63	105	U85ZW	"	208,040	1007	27	43	CE4KZ	"	27,156	166	34	90					
UA6SAM	21	301,376	1074	34	102	U85ZX	"	42,048	144	45	101	U85ZY	"	13,419	214	10	11	CE4LZD	"	8,712	105	15	51					
UA6BAO	3.5	41,268	427	14	62	U85ZB	"	133,497	498	31	86	U85ZC	"	1,050,060	1143	114	203	VE6GK	"	6,552	74	24	18					
UA6LTI	"	40,996	407	14	60	U85ZD	"	71,344	256	30	82	U85ZE	"	487,056	803	106	186	FA0FTA	"	6,528	86	15	29					
UA3YAC	"	16,416	252	10	44	U85ZF	"	57,780	232	30	78	U85ZG	"	15,010	68	39	40	IL7WVX	"	6,528	86	18	16					
UA6JDO	1.8	9,454	145	9	43	U85ZP	"	7,783	89	14	29	U85ZQ	"	31,104	165	23	41	KJ3WV	"	9,380	53	26	41					
*UA3DOH	A	737,622	1204	102	286	U85ZT	21	168,783	643	29	98	U85ZU	"	20,821	220	62	111	Y06DW	"	23,156	166	34	90					
*UA3DPX	"	500,193	851	99	274	U85ZV	"	20,237	215	14	45	U85ZW	"	97,091	422	28	51	CE4KZ	"	27,156	166	34	90					
*UA3EDW	"	437,065	1010	66	233	U85ZX	"	5,246	84	12	31	U85ZY	"	1,288,196	358	145	303	CE4LZD	"	8,712	105	15	51					
*UA3ABJ	"	321,500	640	70	130	U85ZB	"	44,145	368	2	60	U85ZC	"	1,288,196	358	145	303	CE4KZ	"	23,156	166	34	90					
*RA5PP	"	276,860	735	61	133	U85ZD	"	3,218	59	10	32	U85ZF	"	32,111	276	18	61	CE4LZD	"	8,712	105	15	51					
*RA5DUT	"	221,844	526	12	192	U85ZG	"	32,311	276	18	61	U85ZP	"	1,288,196	358	145	303	CE4KZ	"	23,156	166	34	90					
*RA5VH	"	19,242	226	21	49	U85ZT	"	27,702	216	17	64	U85ZY	"	1,288,196	358	145	303	CE4LZD	"	8,712	105	15	51					
*RA5RT	"	17,908	148	20	56	U85ZB	3.5	49,150	174	31	101	U85ZC	"	1,288,196	358	145	303	CE4KZ	"	23,156	166	34	90					
*RA5RT	"	15,260	12	18	52	U85ZD	"	303,261	842	37	110	U85ZF	"	1,288,196	358	145	303	CE4LZD	"	8,712	105	15	51					
*RA5DFL																												

ASSISTED NORTH AMERICA											
United States											
AD1C	A	2,897,968	1607	153	489	W4MGX	28	50,963	158	29	84
W1RR		2,879,104	1519	152	512	WAACUG		32,900	118	27	73
AAZ2/1		2,762,535	1486	148	497	K5LP	A	546,156	503	123	266
K2SX/1		2,257,397	1309	152	467	N5FA		422,792	468	111	217
KC1XX		2,163,432	1172	149	505	NJ1V/5		139,071	331	56	95
KC1F		1,883,846	1249	134	399	K13LY/5		81,456	182	55	106
K8LT		1,347,540	1061	113	331	W5NBI		55,572	150	45	87
K2TE		1,006,992	714	115	389	NU5D		39,500	143	24	76
KA10		885,877	705	113	336	KC5CP	28	27,968	110	26	66
AK1A		807,170	631	112	343	K5WE	14	36,668	130	31	72
N4DW/1		714,870	606	105	317	N16T	A	233,800	239	110	190
W1BIIH		650,288	523	118	328	WK6V		202,454	325	89	139
W1AX		649,728	540	107	316	AA6JJ		41,026	102	60	86
NK11		613,899	517	110	319	W4XW		24,339	85	52	59
WE1F		474,982	511	76	250	WA8LY/6		7,410	42	30	35
KT10		209,000	299	78	172	W6ISQ	28	61,380	229	28	65
WB2NC		184,600	254	76	164	N6OU		14,578	73	27	47
K1TFW		177,330	276	73	157	WA6AUE	7	217,952	559	32	107
NY1L		160,975	256	68	131	K13V/7	A	1,929,624	1409	141	351
K1KNQ		112,564	206	65	149	N7KZN		238,392	342	98	154
WM1W		104,516	188	72	140	KF7YP		104,961	230	74	103
AB1U		86,765	174	63	122	W2ZR		13,330	82	28	34
A1M1		84,105	174	66	123	W7JR	21	98,600	409	26	59
WB1EL		40,960	127	41	67	WNCG/8	A	1,870,323	1316	127	380
N1TZ		32,830	91	49	85	WR3G/8		1,722,600	1032	147	453
NC11		19,872	75	34	62	K6MR		1,352,340	959	132	353
WT1T		10,658	54	22	51	W0QL		1,162,392	861	132	344
K1KI		7,930	44	24	41	K6BM		371,604	397	97	249
N2MM	A	2,170,158	1234	155	467	K8PYD		226,044	301	86	187
K2LE		1,877,960	1240	136	396	N8JCX		191,526	259	84	190
K2O20		1,685,775	1114	135	390	K8BL		104,416	200	68	110
AA2DU		1,613,130	1125	125	385	ABBY		75,075	157	57	118
K2NJ		1,605,515	1067	130	399	N8AA		29,574	100	37	69
K2WK		1,338,939	985	126	351	K4ZLE		6,490	41	25	34
W1GD/2		1,201,556	841	117	387	W6UVZ	14	174,482	406	37	117
W82P		1,172,068	649	115	398	W8KD	7	66,906	205	29	89
NF2H		799,164	716	103	319	N4CC/9	A	1,352,989	935	144	373
K2BU		796,551	618	116	341	NE9U		428,571	480	107	226
W82ABC		625,221	585	106	275	K09HT		124,424	226	66	140
K2EK		562,450	567	94	255	N9AKE		104,976	180	74	142
K2SB		446,955	397	112	303	KW9F		18,018	71	38	61
N2AIF		416,238	288	89	257	W9XT	28	116,160	349	28	92
KF2D0		376,000	431	90	230	N4RR/9	21	224,140	559	33	107
KC2Y2P		371,910	396	100	245	N9AU	7	65,090	208	27	88
K2O1Y		307,400	356	83	234	WB9TY		50,850	163	27	86
W2GMA		295,608	332	94	245	NSBW	A	403,535	453	100	219
W1R2G		240,273	288	81	216	WY0J		388,680	463	111	217
K2J2		210,240	298	70	170	NC00		290,016	364	83	205
KB2NU		208,754	291	84	175	W0BCHW		190,344	270	92	172
K2ESD		157,661	253	65	158	N6AT		94,178	57	78	139
NK2D0		139,375	234	76	147	WB8ZRL		37,410	105	41	88
KY2T		56,225	124	60	113	W5SR	28	42,228	150	27	75
N2VW		24,380	83	38	77	K1ER/8	7	190	7	5	5
WA2UUK		12,240	50	35	50						
W82K		6,844	24	34	39						
W2H6	28	121,968	338	28	98						
N2UN	21	129,664	359	29	99						
K3WW	A	3,330,771	1733	160	521						
WF3E		2,997,498	1588	159	508						
N3AD		2,924,540	1663	143	477	JAY1FG	A	874,725	967	116	211
W3XU		2,817,485	1621	148	457	JR7TEQ		322,836	429	108	188
K2ZH		1,874,420	1117	151	445	J01NGT		244,816	422	91	123
A4AB		1,652,364	1216	117	357	JR2BNF		208,844	352	80	138
K03F		1,600,200	1283	132	393	JM1NKT		188,820	375	73	107
W3FV		1,497,830	1323	132	373	JL3OKR		38,456	152	37	51
N3BNA		1,316,310	299	130	363	JAGTO		11,830	73	33	37
K3ND		1,097,236	749	131	395	JAY2KA	21	507,837	1462	34	87
K3MD		1,074,146	715	119	318	JM1CMA		35,904	186	26	42
N3RR		1,060,880	862	118	327	JL2LPX	14	19,596	110	27	42
K300		726,624	736	125	253	JH1GTV	7	167,367	431	37	104
N3II		672,290	612	133	292						
AA1K		614,172	555	138	295						
K3RL		525,760	449	114	310						
W3NX		428,545	453	132	245						
W3KV		407,696	437	96	236						
NM3W		289,440	407	58	200	DE1TKW	A	22,015	79	45	74
KU3K		244,134	309	54	23						
NK3U		177,688	253	84	182						
W3GN		154,365	265	55	150						
KD2RE		152,988	243	76	152	ON4WW	A	121,086	429	33	93

<b>San Marino</b>	RY5L	674,500	1363	96 259	K2TD	2,719,868	1564	146 482	<b>Lithuania</b>	OCEANIA		
T77C	4,426,793 4493	130 381	UB42WK	635,180	1005	98 266	K3II	1,622,852	1192	125 359		
<b>Spain</b>	RB4IWE	199,796	472	74 177	<b>Canada</b>	<b>Canada</b>	<b>Canada</b>	<b>Canada</b>	<b>New Zealand</b>	New Zealand		
EA3KU	5,888,334 4319	152 493	UB4MWU	130,611	388	56 141	VE7ZZZ	3,441,180	3616	124 291		
<b>Sweden</b>	UB4EYT	31,725	155	40 95	<b>Alaska</b>	<b>Alaska</b>	<b>Alaska</b>	<b>Alaska</b>	<b>Netherlands</b>	Netherlands		
SK1PW	2,587,115 2562	130 415	UT4UXW	494	18	7 12	NL7G	7,474,278	6278	146 356		
SK6TW	2,202,412 2246	133 415	<b>OCEANIA</b>	<b>OCEANIA</b>	<b>OCEANIA</b>	<b>OCEANIA</b>	<b>OCEANIA</b>	<b>OCEANIA</b>	<b>Spain</b>	Spain		
SL0CB	1,688,576 1790	131 381	<b>Australia</b>	GW8GT	6,786,675 4699	158 537	<b>St. Lucia</b>	ED5TX	2,862,714	2792	126 375	
SK0WA	311,227	600	75 182	Y24Z	4,385,040 3743	150 455	J6DX	26,968,675 13829	171 614	<b>Yugoslavia</b>	Yugoslavia	
<b>U.S.S.R.</b>	<b>Belarus</b>	<b>U.S.S.R.</b>										
UC1CWB	924,704	1717	90 262	VK6LW	3,649,950 3017	125 289	CT3M	27,961,992 12202	167 601	<b>AFRICA</b>	<b>AFRICA</b>	
<b>European Russia</b>	<b>Russia</b>											
RZ1A	9,083,938 5613	193 642	<b>Brunei</b>	JE2YRD	7,678,320	4471	170 428	<b>ASIA</b>	<b>ASIA</b>	<b>ASIA</b>		
UZ4WWB	2,525,625 2122	149 476	V85HG	4,068,025 3096	134 314	JA1YXP	4,779,594	3153	160 389	Japan	Japan	
RZ6AZZ	2,427,030 2612	132 401	A35MX	4,498,628 3721	142 270	JA3YKC	4,349,800	3002	161 359	<b>SOUTH AMERICA</b>	<b>SOUTH AMERICA</b>	
UZ4WWA	2,195,550 2148	140 434	<b>Tonga</b>	JA3YBF	2,890,810	2165	147 334	<b>Thailand</b>	<b>Thailand</b>	<b>Thailand</b>		
UZ4PVW	1,745,456 2162	131 341	JA0YAK	14,475	78	33 42	HSBAC	952,476	1251	110 247	<b>Aruba</b>	<b>Aruba</b>
UZ3XWB	1,387,602 1330	134 385	P4/N6BT	1,492,764 1863	75 198	<b>Europe</b>	<b>Europe</b>	<b>Europe</b>	<b>Europe</b>	<b>Europe</b>	<b>Europe</b>	
RZ6AXO	1,386,164 1878	116 321	R6L	8,074,150 5389	176 606	<b>European Russia</b>						
UZ1OWZ	1,019,872 2198	128 336	OH3AT	172,224	503	58 150	<b>Finland</b>	<b>Finland</b>	<b>Finland</b>	<b>Finland</b>	<b>Finland</b>	<b>Finland</b>
RX3ARM	1,009,282 1708	92 246	FF1POI	17,538	105	21 53	<b>France</b>	<b>France</b>	<b>France</b>	<b>France</b>	<b>France</b>	<b>France</b>
UZ1TWC	717,868 1065	105 289	DL8KF	5,299,711	4286	161 521	<b>Germany</b>	<b>Germany</b>	<b>Germany</b>	<b>Germany</b>	<b>Germany</b>	<b>Germany</b>
UZ3WWA	635,460 1112	93 263	HG73DX	16,057,755	9220	191 664	<b>Hungary</b>	<b>Hungary</b>	<b>Hungary</b>	<b>Hungary</b>	<b>Hungary</b>	<b>Hungary</b>
UZ1AWO	332,756 962	61 193										
UZ6HWA	198,000 560	85 170										
UZ1TWW	115,440 569	44 156										
UZ6AYN	107,761 876	71 215										
UZ3AWR	75,880 368	42 98										
<b>Kalininograd</b>	<b>Moldova</b>	<b>Ukraine</b>	<b>RY8D</b>	<b>UW2F</b>	<b>UZ1NWY</b>	<b>UZ0BZ</b>	<b>UZ3IWA</b>	<b>RY8N</b>	<b>Rob, WA3QLS</b>	<b>Gail, KA3ITN</b>	<b>Paul, WA3QPX</b>	
<b>Multic-Operator Multi-Transmitter</b>	<b>North America</b>	<b>United States</b>	<b>N2RM</b>	<b>W3LPL</b>	<b>K1AR</b>	<b>K1ST</b>	<b>K8CC</b>	<b>NGND</b>	<b>FT-1000D</b>	<b>FT-1000</b>	<b>FT-990</b>	
<b>North America</b>	<b>United States</b>	<b>United States</b>	<b>12,374,331 5072</b>	<b>11,286,608 4593</b>	<b>10,632,647 4361</b>	<b>8,249,583</b>	<b>5,748,535</b>	<b>5,748,125 2975</b>	<b>5,620,486</b>	<b>5,620,486</b>	<b>5,620,486</b>	
<b>United States</b>	<b>United States</b>	<b>United States</b>	<b>187 660</b>	<b>186 663</b>	<b>185 654</b>	<b>3887</b>	<b>2940</b>	<b>2978</b>	<b>3170</b>	<b>3170</b>	<b>3170</b>	
<b>Mobiles</b>	<b>Mobiles</b>	<b>Mobiles</b>	<b>187 660</b>	<b>186 663</b>	<b>185 654</b>	<b>175 580</b>	<b>166 545</b>	<b>178 509</b>	<b>181 493</b>	<b>181 493</b>	<b>181 493</b>	
<b>Mobiles</b>	<b>Mobiles</b>	<b>Mobiles</b>	<b>187 660</b>	<b>186 663</b>	<b>185 654</b>	<b>175 580</b>	<b>166 545</b>	<b>178 509</b>	<b>178 509</b>	<b>178 509</b>	<b>178 509</b>	
<b>Base Stations</b>	<b>Base Stations</b>	<b>Base Stations</b>	<b>187 660</b>	<b>186 663</b>	<b>185 654</b>	<b>175 580</b>	<b>166 545</b>	<b>178 509</b>	<b>178 509</b>	<b>178 509</b>	<b>178 509</b>	
<b>FT-1000D</b>	<b>FT-1000</b>	<b>FT-990</b>	<b>FT-990DC</b>	<b>FT-890</b>	<b>FT-747GX</b>	<b>FT-650</b>	<b>FT-650</b>	<b>FT-650</b>	<b>FT-650</b>	<b>FT-650</b>	<b>FT-650</b>	
<b>FT-1000</b>	<b>FT-1000</b>	<b>FT-990</b>	<b>FT-990DC</b>	<b>FT-890</b>	<b>FT-747GX</b>	<b>FT-650</b>	<b>FT-650</b>	<b>FT-650</b>	<b>FT-650</b>	<b>FT-650</b>	<b>FT-650</b>	
<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	
<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	
<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	
<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	
<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	
<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	
<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	
<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	
<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	
<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	
<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	
<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	
<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	
<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	
<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	
<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	
<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	
<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	
<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	
<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	
<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	
<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	<b>FT-2400, 2m</b>	
<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	<b>FT-5200, 2M/440</b>	<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>	
<b>FT-6200, 2M/440</b>	<b>FT-2400, 2m</b>	<b>FT-212RH, 2m</b>	<b>FT-712RH, 70cm</b>	<b>FT-912R, 1.2 GHz</b>								