

The New

RTTY *Journal* ©

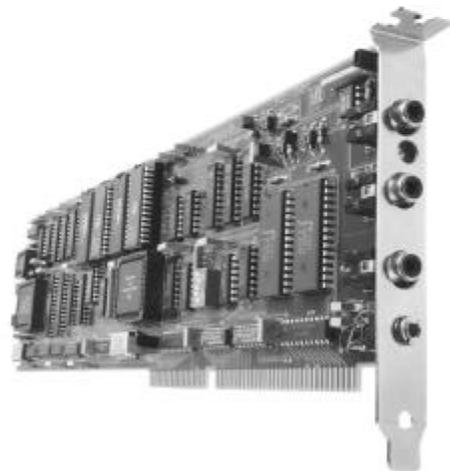
P.O. Box 236, Champaign, IL 61824-0236 www.rttyjournal.com Volume 49, Number 2 — Summer 2001 \$5.00



RTTY'ers enjoying the hospitality suite at Dayton 2001. From left: Earl Smith, N5ZM; Ewe Hakansson, SM7BHM; Bob Meyer, K9IO; Jan Palmquist, SM5FUG. Photo by Betsy Townsend.

Summer/Fall Contest Schedule	2	Dayton 2001 Pictures	6
Hits & Misses	3	2000 CQ/RJ WW DX Results	10
Biography of Jerry Jankowitz, NO2T	4	Nevada on RTTY	12
Biography of Chuck Prindle, W6JOX	5	2001 CQ/RJ WPX Results	13

P38



The **P 38** is a multi-mode HF data modem that gives you top performance operation using RTTY, AMTOR, P-Mode* and CLOVER-II waveforms. The **P 38** is a full sized plug-in card for PC-AT and faster personal computers. Multi-screen menu-driven HAL software is included with each **P 38** modem. Many popular "third-party" user programs are also available for the **P 38** - WORLI, WINLINK, WriteLog, XPWARE, EZTERM and RTTY by WF1B. The **P 38** is complete and ready to run. Plug in the board, connect three phono cables to your radio, and install the software. That's all there is to it! Whether you want to rag-chew, chase DX, or access electronic mail, the **P 38** is the modem of choice.

RTTY-1

The HAL **RTTY-1** is an easy to use and very accurate tuning indicator. It may be used with virtually *any* FSK modem, TNC, multi-mode controller, demodulator, and receiver or transceiver. The crossed LED bars show correct tuning for all popular FSK modes including Baudot Teletype (RTTY), ASCII Teletype, AMTOR, SITOR, P-Mode*, and even HF Packet Radio. Just hook it to your receiver's audio output and you're in business, even with modems that do not include "scope" output connectors.



*The word "P-Mode" is the HAL designation for a communications protocol that may be also known as "Pactor" a registered trademark of the Spezielle Communications System GmbH (SCS) firm in Hanau, Germany. HAL affirms that, to the best of its knowledge, "P-Mode" is compatible and interoperable calls "Pactor-II".



HAL COMMUNICATIONS CORP.

1201 West Kenyon Road, P.O. Box 365
 Urbana, IL 61801-0365
 Phone: (217) 367-7373 FAX (217) 367-1701
www.halcomm.com halcomm@halcomm.com

RTTY Contest Schedule — Summer/Fall 2001

Date & Time	Contest	Date & Time	Contest	Contest Information Online
07/21 1800 to	NCJ NA	08/25 1200 to	SCC	ARRL: http://www.arrl.org
07/22 0600	QSO Party	08/26 1200	Championship	Jim's Gazette: http://www.n2hos.com/digital
07/28 0000 to	Russian	09/29 0000 to	CQ/RJ	LA9HW Contest Calendar: http://home.online.no/~janalme/hammain.html
07/29 2400	World Wide	09/30 2400	WW DX	SM3CER Contest Service: http://www.sk3bg.se/contest
08/18 0000 to	SARTG	10/14 0000 to	NCJ Sprint	The New RTTY Journal: http://www.rttyjournal.com/contests
08/19 1600	World Wide	10/14 0400		

Dates and times subject to change.

OR — The New RTTY Journal will airmail a printed copy to you. For *each* contest, send \$3.00 for U.S., Canada, or Mexico destinations or \$4.00 to other countries. Please allow three weeks for processing and delivery.

George W. (Bill) Henry, K9GWT
Publisher and Editor

All Correspondence:
The New RTTY Journal
P.O. Box 236
Champaign, IL 61824-0236

Voice: 217-367-7373
FAX: 217-367-1701
www.rttyjournal.com

STAFF

Linda HenryAccountant
Joe Wittmer, KB9SIZAssistant Editor
jwittmer@rttyjournal.com
Dale Sinner, W6IWOAssociate Editor
dsinner@rttyjournal.com
Jason AllenProduction Manager
jallen@rttyjournal.com

SUBSCRIPTION RATES

United States, Canada, and Mexico

1 year (4 issues)\$15.00
2 years (8 issues)\$28.00
3 years (12 issues)\$41.00

Foreign

1 year (4 issues)\$20.00
2 years (8 issues)\$38.00
3 years (12 issues)\$56.00

The New RTTY Journal is published four times per year: March, June, September, and December. Subscriptions and advertisements must be pre-paid by check or money order in U.S. funds drawn on U.S. banks only. Visa and MasterCard credit cards are accepted.

The publisher assumes no liability or responsibility for errors, omissions or editorial content. Written permission from the publisher of The New RTTY Journal is required prior to and for any reproduction of all or any portion of this magazine.

Expiration Date: Your address label shows the date of your last subscription issue. Please contact us if this does not agree with your calculations.

POSTMASTER: Please send all address changes to: The New RTTY Journal, P.O. Box 236, Champaign, IL 61824-0236

The New RTTY Journal is a continuation of the magazine formerly known as RTTY, RTTY Journal, RTTY Digital Journal, Digital RTTY Journal, and Digital Journal.



Hits & Misses

Bill Henry, K9GWT
k9gwt@rttyjournal.com

Well, another Dayton Hamvention has come and gone. Again, the RTTY gang had a great time. This is our second year at the Holiday Inn at the Dayton Mall and I think we all would agree that it's a vast improvement over prior years. For those who couldn't attend, this issue includes several pages of photos. We took about 150 pictures but only have space to print 25 of them. Please go to our web site and have a look at *all* 150.

Thursday evening, May 17, we gathered at the "watering hole". There are lots of old friends who do this every year, and this year there were several Dayton first-timers. It was particularly nice to see Jan, SM5FUG, Ewe, SM7BHM, and Gunnar, SM7SKT this year. Of course, "Uncle" Ray Hunter, VE3UR was there, as he has been for many, many years.

Friday, the show opened at 9A.M. That's *very* early if you've been up late (very late) swapping lies about RTTY. It rained — very hard at times — and the flea market was literally a "wash-out". But, we all crammed into the exhibit hall and looked at all the new gadgets. Judging by the big boxes that walked by our booth, I have to guess that there were a lot of happy campers that hauled new toys back to their hotel rooms.

Friday evening, we gathered for the traditional RTTY Contest and DX Dinner. This year, Jay, WS7I, and Betsy, WV7Y, were the organizers and hosts — good job! Many of the plaques for the CQ/RJ WW DX Contest and CQ/RJ WPX Contest were awarded (see pages 10-15 for results). Tim Totten, N4GN, spoke about his record-setting effort from the Canary Islands (EA8) in the 2000 CQ/RJ DX RTTY Contest. After dinner, we adjourned upstairs to the RTTY Journal hospitality suite. I hear that it closed sometime during the "wee hours".

Saturday is always the BIG day at Dayton. The weather was beautiful and the flea market was in full swing all day. It's been said that one of everything in electronics is somewhere to be found at the Dayton flea market. The trick is in finding it, of course. I've also

heard that "if you don't find what you want at Dayton, you just don't need it!"

Over the noon hour, ARRL Director Frank Fallon, N2FF, moderated the RTTY Forum. As before, we got the "big room" and filled it. This year's panel included Steve Ford, WB8IMY; Jan Palmquist, SM5FUG; Jay Townsend, WS7I; and Glenn Vinson, W6OTC. The question and answer exchange covered many topics, including RTTY versus PSK-31, new data modes, and contest log checking and scoring.

Saturday evening, we gathered for the traditional RTTY Journal dinner, once again well organized by Joe, KB9SIZ. After dinner, John Fleming, WA9ALS, described his DXpedition and family vacation to VP5 for the CQ/RJ WPX Contest this year. We then adjourned once more to the hospitality suite. I think the door closed a little earlier this evening — we must be getting old.

Sunday is always a wind-down day. Many headed home directly from the hotel, but some of us went back out to Hara Arena for "one more look". The convention ended at 1P.M. and everybody packed up.

I'd like to encourage all RTTY Journal readers to consider coming to the Dayton gathering next year. This has been the primary meeting for RTTY'ers since the early 60s. We now have a good hotel and I think we finally know how to get "from here to there". Bring your family even if they aren't into ham radio. The hotel has a large indoor pool, hot tub, whirlpool, and recreation area. The very large Dayton Mall is about a half mile from our hotel, the Air Force Museum is just down the road, and there are several very large and very nice antique malls only 25-30 miles away. Yes, the road construction continued this year and will still be with us next year. But, we have yet to lose one RTTY'er on a detour. Hey, if we can figure out "deedle-deedle", we're not about to get confused by a few signs (at least for long).

Continued on page 12



Doris, NW2B; and Jerry Jankowitz, NO2T

My hardware interest goes back to the mid 50s when, as K2ADR, I built a Heathkit phasing exciter for SSB. I built a 4-1000 amp in the late 50s which is still in use today. I was mostly interested in voice communications with almost no DX interests.

The 60s were a dead area for amateur radio. Raising a family and business interests occupied all of my available time. I let my license lapse. My children were grown up and married by the early 80s.

I got back into ham radio at the instigation of my YL (Doris, now NW2B, pictured above). I had been commuting about 17 miles to the workplace. She mentioned that a CB radio might help with traffic information. She picked up a CB rig at a garage sale, and put it in the car. After a week, I mentioned that it would be nice to get back into Amateur Radio. She told me she thought it was a good idea, and that she had been thinking the same thing. With that, she handed me a stack of license manuals.

I got my extra class in two months, with Doris following close behind. I very quickly became interested in digital modes, and have been there since.

I started with a homebrew TNC, then with a Commodore-64, followed by a Radio Shack TRS-80, and then into IBM clones. I picked up a HAL ST-5, and then a PK-232. Since then, I have gone the route of the PCI-3000 to

the P-38 (both by HAL). In terms of software, I started with my own homebrew software, then used WF1B's RTTY, and I am now very happy with W5XD's WriteLog.

My station consists of a 54-foot crankup with a 15-foot mast. On top is a KLM-KT34xa. Hanging from the tower at the 40-foot level is a homebrew 4-element, 15-meter mono fixed in one direction depending on the contest. A 2-element wire beam hanging in the trees provides somewhat directional gain to the northeast and southwest. A delta loop with the peak at 60 feet provides 80-meter coverage.

The radios are two Kenwood TS-940s and an ICOM IC-781. Amps are a motley bunch. My venerable homebrew 4-1000 and an ALPHA 77 are the workhorses. I also have a homebrew 4CX1000 and a Heath SB-1000. For contests, I run WriteLog on two computers networked with Ethernet.

To minimize damage to the radios we use both bandpass filters and quarter wave stubs. The filters are by W3MQM. The stubs are an open and shorted TV hard-line. Together, they isolate the two radios pretty well. I normally run one radio on 10, 20, and 80 meters. A single open stub cut for 40 eliminates 15 and 40 interference. The same length, but shorted, provides protection for the 40 and 15 meter radio. While the protection is adequate, if there is the slightest bit of hot switching, the broadband arcing noise will damage the other radio.

I started serious contesting in the early 90s. By 1993 I got into the top ten. I normally participate seriously in five contests a year. These are: ARRL RTTY Roundup, CQ/RJ WPX, BARTG, SARTG, and CQ/RJ WW RTTY. Some contest highlights:

- 1997 CQ/RJ WPX: 4th NA, 10th World
- 1998 CQ/RJ WPX: 3rd NA
- 1999 CQ/RJ WPX: 1st NA
- 2000 CQ/RJ WPX: 4th NA
- 1993 BARTG: 1st NA
- 1996 BARTG: 2nd NA, 8th World
- 1997 BARTG: 3rd NA, 8th World
- 1998 BARTG: 2nd U.S.A., 9th World
- 2000 BARTG: 3rd U.S.A., 11th World
- 1997 SARTG: 4th U.S.A.
- 1998 SARTG: 4th U.S.A.
- 1999 SARTG: 3rd NA
- 2000 SARTG: 2nd NA
- 1995 CQ/RJ WWDX: 2nd U.S.A.
(1996-1999 WWDX at W3LPL as MM)
- 1996 CQ/RJ WWDX: 1st World
- 1997 CQ/RJ WWDX: 1st World
- 1998 CQ/RJ WWDX: 1st World
- 1999 CQ/RJ WWDX: 1st NA, 3rd World
- 2000 CQ/RJ WWDX: 1st NA, 4th World

WT4I Contest Tools

Tools to analyze and check
Cabrillo format logs

Now you can use the same software used by Official Contest Managers to check logs and expedite production of accurate and timely contest results!

WT4I Log Checker - Get a look at your log in a different view than what is provided by most contest logging programs. The user can easily spot bad or busted calls and missed or bad exchanges. The individual user is given the opportunity to log at the log in much the same way as an official log checker.

Cabrillo Converter - Convert just about any column based ASCII log into the Cabrillo format. The user simply identifies each of the columns through simple clicks of the mouse, enters the required header information, and saves the log in Cabrillo format. The resultant log is ready for log checking with WT4I Log Checker or for electronic submission.

Master Call Maintenance - Create and maintain your own master callsign database for use with WriteLog, WF1B RTTY, or with the WT4I Log Checker utility. The user can build a master callsign database from existing super check partial files, or build one semi-automatically from the callsigns found in Cabrillo format logs.

- Cabrillo Format Logs
- 30+ Major Contests
- Automatic Scoring
- Dupe Checking
- Unique +1 Processing
- Search and Replace
- Check 10 Minute Rule
- Check 6 Band Change
- Display Off Times
- View Log by Field

WT4I Contest Tools \$35 Cabrillo Converter \$15

<http://www.wt4i.com>
e-mail: sales@CabrilloTools.com

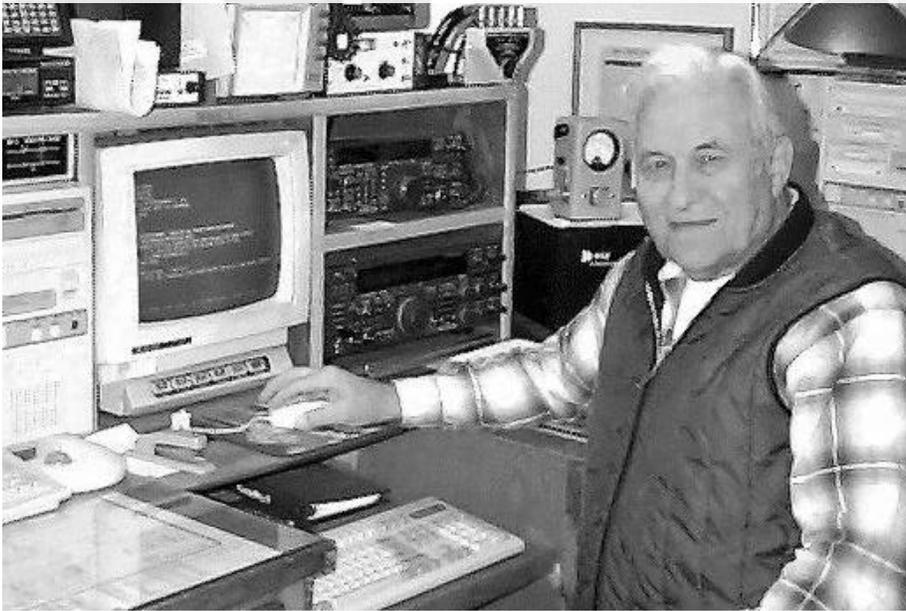
Ron Stailey, K5DJ

504 Dove Haven Drive
Round Rock, TX 78664-5926
Tel: (512) 255-5000



Biography

W6JOX



C.W. "Chuck" Prindle, W6JOX

I am one of those rare breeds, being a "Native Californian" — born and raised in Northern California. As a youngster growing up in the historic town of Sonoma, I was always interested in radio. I was able to make a radio for my bicycle back in the ancient days. Born in 1918, I am an "old codger" for sure. Drafted into the service in 1941, I was assigned to a signal corps company because of my interest in "radio". How quaint to actually be assigned to something that a person was "interested in". Especially in the service. I went to several communications schools, learned the code, and eventually ended up in the Army Air Corps as a pilot, flying B-24's out of England. Back to civilian life in 1945 and reserve time in the Air Force Mars.

I was first licensed in 1948 Am, SSB, CW, six meters, two meters, and finally 440. For the higher frequency I had the privilege of having Frank Jones, W6AJF, as a mentor.

In 1954 I found RTTY and fell in love with it because of the combination of mechanics and electronics. From that time on my only operations on the lower bands was on RTTY.

In my first operation I utilized surplus military equipment but as time went on I reverted to building my own demodulators. I went through all of the building phase of the TTL/2 and the ST-6 by Irv Hoff. Irv was a real shot in the arm for RTTY. Finally I invested in one of HAL's first. To this day I still use a PCI-3000 in contesting. The newcomers to RTTY

can't imagine having to ID in double time. Because the FCC didn't have proper equipment to monitor baudot we had to ID not only in baudot but in CW as well. How would you like to work a contest under those conditions? I devised a code wheel and was able to automatically send my ID at the push of a button. While the code was going out I could enter the log information.

I have never had room for much of an antenna farm. On my small city lot I am lucky to put up a 40 foot crank up tower with a TH-3MK3 an inverted "V" for 40 and 80 meters. Presently running a TS-950/S with an old but much modified Info-Tech demodulator. When the going gets tough, I have a Alpha 91b, but I usually run about 500 watts. I am sure the TH-3 traps wouldn't take much more on RTTY.

Most all of my activity in the past several years has been chasing DX and contesting. At this time I have DXCC # 20 dated April 1980. I presently have 321 countries worked with 320 confirmed. 5 band WAS dated March 2001. I believe I was the second one to achieve this award all on RTTY. W7DPW made it two weeks ahead of me. ARRL does not number this award by modes any more, "too time consuming," they say. My original RTTY WAS, dated in 1978 is number 27. I have WAZ #12 1988. The RTTY Journal awards include DXCC #46, WAC #36, WAC 10 meters #5 1979, 15 meters #8 1977, and 20 meters #47 1977.

Over the years I have enjoyed this mode exclusively and have found that RTTY's are the most helpful and have the best manners of all the modes.

— 73, C. W. "Chuck" Prindle, W6JOX

RTTY Journal ARCHIVE DISCS

All RTTY Journal issues, from 1953 to 1997, are available on CD-ROMs. Buy the whole set of eight discs for just \$100 (a savings of \$20), or you may purchase each archive disc individually for \$15 (\$20 each for non-subscribers).

See the enclosed form for details on ordering.

WriteLog for Windows
with Rttyrite/WinRTTY/AFC
**One Package Handles All Your
CW, SSB, and RTTY Contesting Needs**

**NEW Version 10
for Windows 95, 98, NT**
Operate 2 radios with one sound card on RTTY
and SSB & Perfect CW transmission.

Tired of obsolete DOS logging packages that force you to use special configurations and don't use all of the power of your computer? WriteLog is the first contest logging software designed to fully deliver the convenience and ease of use of Windows 95, 98 & NT.

WriteLog includes these battle-proven features:

- Work RTTY using any 16-bit (or better) sound card. No other hardware required! Opt. 2 sound cards and run 4 radios
- Full Radio Control
- Helpful Band Map
- Packet Interface
- Fast Ethernet Networking
- Super Check Partial
- Click and Go Mouse Support
- Perfect Log Submission
- Two Radio Support
- Supports All Major Contests in All Modes
- **Only \$75.00**
Ver 9 users upgrade \$30.

PLUS These NEW Features:

- RTTY mode AFC — also known as Autotune
- Audio Compression — now you can save & play back your entire log after a contest, contact by contact, from WAV files on your H.D. — in CW, SSB, RTTY & PSK31 modes — via WAV file compression.
- CW Reader — print CW on screen like in a RTTY contest. We also added multi-channel CW reader capability. With a fast PC (350MHz Pentium or faster) WriteLog will decode CW at 6 different pitches on 2 radios simultaneously. Like having a backup operator looking over your shoulder.

"I made the first contest (non RTTY) with WriteLog, and it is FANTASTIC. It is such an improvement for me over CT... I really love it, and from now on anyone who operates from here will HAVE to use this program! I will twist their arms." — John, ON4UN

<http://www.writelog.com>
e-mail: k5dj@writelog.com

Ron Stailey, K5DJ

504 Dove Haven Dr.
Round Rock, TX 78664-5926
Tel: (512) 255-5000



2001 Dayton Hamvention



Don Hill AA5AU
Earl Smith N5ZM
Joe Wittmer KB9SIZ



Dale Sinner W6IWO
Jay Townsend WS7I
Bill Henry K9GWT
Richard Polivka N6NKO



Ron Stailey K5DJ
Wayne Wright W5XD
Len Morris VE3FJB



Joe Shuey NE3H
Jan Palmquist SM5FUG
Gunnar Martensson SM7SKT



Shelby Summerville K4WW
Thomas Korinek OE1KTS
Waldemar Kesch DK3VN



Debra Barton W8IBT
Denis Barton WB8SKP

2001 Dayton Hamvention



George Johnson, W1ZT Glenn Vinson, W6OTC
Photo by Betsy Townsend



Yolanda Lifter, KF4AKN Bruce Lifter, WT4I
Photo by Betsy Townsend



Jerry Jankowitz, NO2T Glenn Vinson, W6OTC
Photo by Betsy Townsend



Jacob Oduer, P43P Glenn Vinson, W6OTC
Photo by Betsy Townsend



Joe Wittmer, KB9SIZ Jody Millspaugh, VP5JM
Photo by Betsy Townsend



Tim Totten
N4GN

2001 Dayton Hamvention



Frank Fallon
N2FF



RTTY Forum panel (L to R): Frank Fallon, N2FF (Moderator); Steve Ford, WB8IMY; Jan Palmquist, SM5FUG; Jay Townsend, WS7I; Glenn Vinson, W6OTC.



Paul Rubinfeld
W5FT

Peter Casier
ON6TT

Mats Persson
SM7PKK



Mary Duerbusch

Joe Duerbusch
K0BX



Jean Paul Taillebois
VE3JPT

Ray Hunter
VE3UR

Fred Cobb
VE3FRD



Bob Ideker
WB5VUH

Stewart Long
KE5PO

2001 Dayton Hamvention



Ken Fattman
NA0Y

Price Smith
W0RI

Bud Stotler
N10F



Suzanne Ortgiesen
KA1JGB

Mark Prather
WB9HFK



Wesley Fleming
KB9YTW

John Fleming
WA9ALS



Betsy Townsend
WV7Y

Jay Townsend
WS7I



David Drew
W7DPW

Hong Drew



Ray Ortgiesen
WF1B

Ron Stailey
K5DJ

2000 CQ/RJ World Wide DX Contest Results

September 23-24, 2000

Z = Number of zones
 C = Number of countries
 SP = Number of U.S. states and Canadian provinces

10 Meters

Call	QSOs	Pts.	Z	C	SP	Total
ZS6EZ	1339	4002	30	88	55	692346
PJ2I	1136	3375	24	81	56	543375
LU8EKC	738	2176	25	77	52	335104
W5KFT	774	1968	28	91	47	326688
LW7EIC	688	2028	26	82	49	318396
HC1JQ	670	1983	25	79	51	307365
VR2BG	715	2021	29	82	41	307192
5B4/GODEZ	766	2217	26	72	40	305946
PW2A	603	1776	25	74	49	262848
PJ2MI	596	1762	23	68	50	248442
AB8K	594	1553	28	82	36	226738
K7WM	559	1326	26	85	45	206856
EA7FTF	571	1479	22	68	47	202623
N2WK	546	1440	25	81	33	200160
PP5JD	517	1533	21	63	46	199290
S54E	468	1280	26	79	48	195840
4X1RF	454	1349	23	67	37	171323
LT5F	387	1135	25	71	50	165710
I2ZZZ	370	1024	27	77	48	155648
F5NZO	359	1006	25	49	47	121726
F5JKK	344	950	25	55	44	117800
LU7DAC	310	905	21	59	46	114030
DL1LH	295	801	27	71	43	112941
ND5S	352	888	22	70	30	108336
DJ6TK	273	755	28	71	43	107210
W6/GOAZT	342	715	25	67	39	93665
JA6WJL	202	583	27	63	24	66462
JA1SJV	210	599	25	58	26	65291
4X6UO	230	683	21	49	23	63519
OH0HEY	202	535	26	62	27	61525
SP2EWQ	168	466	25	55	35	53590
OK1MP	146	395	27	70	31	50560
DJ2YE	172	481	23	44	33	48100
EA1CXH	150	386	20	48	27	36670
RV3APM	117	319	23	44	27	29986
OK1DCP	109	309	20	35	26	25029
IZ1ASN	104	298	21	36	26	24734
F6IRG	110	309	21	26	29	23484
LW5DR	94	275	17	41	18	20900
KG5RM	83	214	20	39	9	14552
BV2WM/4	77	198	18	39	1	11484
IV3HAX	59	172	18	24	24	11352
HA0GK	60	171	18	24	21	10773
UX1IL	58	151	20	33	14	10117
UT1IA	46	120	19	32	3	6480
DJ3EF	36	106	15	17	7	4134
LZ2JA	27	76	11	13	5	2204
SP6OPE	5	15	4	5	0	135

15 Meters

Call	QSOs	Pts.	Z	C	SP	Total
9A5W	955	2516	33	96	52	455396
VE6JY	985	2584	29	90	51	439280
PY2KC	852	2537	29	88	52	428753
K1AM	981	2451	30	94	50	426474
S57AW	906	2390	33	91	54	425420
G5G	928	2491	29	85	54	418488
HA9RU	871	2297	32	93	54	411163
VA3MM	856	2323	28	86	47	374003
K3GP	765	1996	31	90	43	327344
K5DJ	830	1829	26	89	54	309101
DF0CG	619	1663	28	81	53	269406
RD0C	624	1757	25	76	49	263550
T94MZ	631	1659	25	78	51	255486
JA1KQX	554	1608	27	79	49	249240
LZ/OK1DF	584	1526	26	74	49	227374
PA3EWP	537	1407	28	81	51	225120
IK1HXX	530	1401	25	69	54	207348
US9QA	577	1420	26	75	43	204480
CT1AOZ	526	1309	26	70	51	192423
JH6ETS	402	1122	29	75	44	166056
KT0DX	488	1096	27	76	45	162208
UA4CJJ	487	1126	25	73	46	162144
4F3XX	449	1325	23	61	38	161650
CN8NK	414	1240	17	56	47	148800
4U1ITU	407	1064	24	59	42	133000
JG1GGU	363	1024	23	61	45	132096
EC2ADR	410	1003	23	64	44	131393
ON7NQ	325	877	24	63	50	120149

AG4W	377	935	23	69	35	118745
JA3EVZ	298	860	25	61	44	111800
K5ZQ	328	814	23	69	36	104192
RA1AW	302	747	26	63	48	102339
HA1RB	232	599	20	62	46	76672
W6IWO	287	616	21	51	46	72688
F6IFY	220	564	22	65	40	71628
JR3RIY	176	498	21	51	28	49800
OM7PY	113	293	21	46	25	27835
IK2UHU	133	341	16	36	29	27621
JK3GWT	116	327	20	48	12	26160
IK2DHU	120	309	16	35	27	24102
JR1KSK	97	282	21	42	22	23970
W9ILY	115	260	19	42	20	21060
S57IIO	119	296	17	34	9	17760
SP5RH	74	188	17	34	18	12972
JA6AQV	61	173	12	36	14	10726
RA0ANO	55	150	16	25	16	8550
UA4RC	77	167	11	29	6	7682
RA9FRD	41	116	11	23	12	5336
JO6EDD	5	10	5	5	0	100

20 Meters

Call	QSOs	Pts.	Z	C	SP	Total
9A2DQ	967	2479	31	94	57	451178
UY5OQ	622	1508	29	89	38	235248
IT9SX	595	1479	24	67	53	212976
J41OG	553	1321	25	75	38	182298
DH6LS	436	1087	25	79	46	163050
EU1MM	412	956	27	83	33	136708
EA1BD	333	806	21	65	38	99944
YL3FW	378	837	23	69	23	96255
EA2AKP	317	743	22	74	31	94361
PB5KT	308	764	22	59	38	90916
DL9MBZ	286	662	21	67	34	80764
YU7NW	272	647	22	69	32	79581
7K4OQK	205	575	23	67	22	64400
HI8ROX	206	393	132			51876
US7IS	187	425	17	56	12	36125
OZ6EI	167	396	18	49	17	33264
ON4VV	155	364	17	50	20	31668
VE3BUC	119	296	20	45	30	28120
DF3IAL	110	279	17	47	22	23994
I4DOO	116	286	17	47	19	23738
UT2AU	131	302	18	52	6	22952
UR8QR	142	307	14	50	4	20876
SV9/DJ9XB	110	250	13	35	9	14250
RA4LTA	101	217	13	42	8	13671
UT5DL	91	202	15	41	9	13130
UA3LPF	112	230	8	40	1	11270
JH2OMM	61	169	14	29	5	8112
YO5TP	45	129	17	24	12	6837
DL9GMC	58	83	9	24	6	3237
YU7AE	17	35	5	15	0	700
PY4CEL	10	27	6	9	0	405

40 Meters

Call	QSOs	Pts.	Z	C	SP	Total
9AY2K	423	1000	22	69	34	125000
SV/OK1YM	382	844	16	61	21	82712
UX6F	68	571	16	55	12	47393
OH2BP	208	462	19	56	10	39270
S54A	176	385	17	52	14	31955
Z31GB	160	344	12	46	4	21328
LY2FN	137	297	12	40	2	16038
JE2UFF	84	224	16	34	4	12096
HA9QA	64	157	10	29	13	8164
YO3III	70	149	6	30	0	5364
UR5FCM	31	66	5	20	0	1650

80 Meters

Call	QSOs	Pts.	Z	C	SP	Total
S51DX	315	648	14	50	10	47952
EO6F	291	599	12	53	6	42529
UR6QA	234	474	10	46	0	26544
YL2PM	180	370	9	39	0	17760
RK6BZ	144	283	9	35	0	12452
UR5FFC	140	279	7	35	0	11718
OK2SG	80	155	9	31	1	6355
S57IIO	19	39	5	12	1	702

Multi-Multi

Call	QSOs	Pts.	Z	C	SP	Total
RW2F	3032	7615	130	401	198	5551335
HG3DX	2745	6985	121	356	203	4749800
RK0AXX	1916	5471	110	325	114	3003579
VE5RI	1280	3222	83	211	173	1504674

Multi-Single, High Power

Call	QSOs	Pts.	Z	C	SP	Total
HC8N	3031	9016	120	362	226	6383328
P3A	2656	7686	120	377	187	5257224
HO1A	2532	6684	118	326	216	4411440
RU1A	2016	5084	123	380	192	3533380
VY2SS	1992	5224	107	328	202	3327688
YL4U	1989	4923	114	344	172	3101490
UT9F	1523	3735	112	341	149	2248470
OL5Q	1544	4051	102	283	160	2207795
GW8K	1501	3873	87	248	166	1940373
GM5V	1441	3525	99	281	134	1811850
W0SD	1529	3479	95	243	178	1795164
HG5C	1308	3377	93	272	154	1752663
LZ2K	1332	3358	92	275	135	1685716
OM7M	1286	3181	82	238	120	1399640
RK3RWL	1014	2335	87	248	90	992375
AE9D	1031	2315	77	196	154	988505
VE3FJB	908	2383	76	187	134	946051
KJ7TH	1091	2173	81	174	178	940909
GW5NF	610	1495	59	155	111	485875
W0MA	496	1195	73	175	78	389570

Multi-Single, Low Power

Call	QSOs	Pts.	Z	C	SP	Total
Z30M	1510	3731	101	282	156	2011009
KP2D	1442	3637	84	221	174	1742123
WT4I	1182	2672	97	265	186	1464256
YU7AL	944	2356	88	258	119	1095540
AH6OZ	892	2646	79	136	160	992250
RK9CZO	738	2104	68	200	58	685904
F5KQN	415	1055	69	151	82	318610
SV1DPI	457					

SP7GAQ	75	196	38	66	5	21364
VU2RMF	75	202	55	47	0	20604

Single Op, All Bands, High Power

Call	QSOs	Pts.	Z	C	SP	Total
EA8BH	2485	7448	115	349	209	5012504
EMOI	2030	4981	114	356	167	3172897
A61AJ	2167	6288	79	260	141	3018240
S58T	1843	4645	116	347	181	2991380
UP5P	1662	4707	111	329	119	2631213
S50U	1581	4092	107	318	177	2463384
HK3WQG	1598	4737	89	235	181	2392185
DL4MCF	1440	3655	110	307	172	2152795
RX3DCX	1420	3461	107	319	146	1979692
UA4LCQ	1561	3682	99	295	127	1918322
W1GF	1482	3708	87	264	146	1842876
LV5V	1286	3781	79	218	149	1686326
SM5FUG	1273	3115	95	291	135	1622915
I1COB	1233	3186	85	230	163	1522908
UF3CWR	1306	3018	84	268	104	1376208
W1ZT	1159	2757	94	238	166	1372986
W3FV	1132	2986	83	240	128	1346686
RM4W	1156	2836	86	239	123	1270528
W7TI	1167	2480	98	216	177	1217680
S53MJ	1085	2722	80	220	124	1154128
N2FF	1061	2632	86	223	129	1152816
K5ZD	984	2447	82	237	151	1150090
RD4M	1159	2657	83	241	103	1134539
RA3WA	997	2326	93	278	98	1090894
F5QE	928	2328	78	240	139	1063896
LZ2WF	935	2318	80	223	116	971242
JA1BWA	810	2303	92	212	89	905079
ZL2AMI	858	2545	70	154	127	893295
OK2MR	781	1947	93	235	119	870309
OM3IAG	788	1975	81	226	108	819625
5B4AGE	851	2438	75	188	67	804540
W1RY	792	2000	73	205	113	782000
SM6WQB	773	1919	81	216	104	769519
T88SW	835	2470	71	148	86	753350
OH7A	884	2160	64	191	90	745200
KK5OQ	915	1879	73	183	136	736568
LA7CL	762	1848	83	215	87	711480
OK1KSL	738	1783	80	225	94	711417
VE5CPU	782	1907	69	159	137	696055
KG9X	726	1684	84	205	123	693808
RV9BB	596	1680	80	245	34	603120
Y51RR	709	1855	66	142	112	593600
NN6XX	747	1571	75	168	132	589125
VE7BTO	688	1658	70	144	141	588590
SM6FUD	690	1686	72	180	92	579984
EA3RH	733	1783	60	153	109	574126
RZ1AZ	658	1511	86	222	70	571158
PA3EMN	601	1451	80	219	83	554282
RA9MY	638	1825	57	174	55	521950
W2JGR/O	692	1599	66	160	99	519675
RA9MY	622	1795	66	171	53	502600
KE6YTT	748	1337	54	130	162	475972
EU1SA	586	1420	72	198	59	467180
W8KEN	560	1402	67	175	89	464062
K3DUG	590	1569	58	168	69	462855
H89DCM	515	1339	71	176	95	457938
TK/F6FGY	575	1360	67	198	71	456960
WT6P	678	1325	71	135	137	454475
SP6CZ	501	1228	78	202	68	427344
KL7AC	602	1562	54	116	103	426426
AA9RR	543	1196	65	168	121	423384
RJ3AT	556	1227	71	183	45	366873
SV1DKR	590	1386	54	140	65	358974
9M6US	470	1388	61	106	79	341448
W0HW	489	1106	63	141	93	328482
OK2BXW	415	1096	68	136	92	324416
W5BBR	445	1070	70	146	80	316720
WA8RPK	497	1186	55	145	63	311918
4W6MM	601	1767	56	117	0	305691
RV1CC	439	1000	72	177	46	295000
DL7CX	377	938	71	152	83	287028
KD5M	373	891	75	151	73	266409
N5RFX	516	938	54	110	113	259826
OK2VP	376	886	67	216		250738
F2AR	365	888	64	154	59	245976
N2ED	430	1125	45	113	56	240750
K6HGF	467	897	52	108	100	233220
AE9B	383	954	55	122	60	226098
JA2AXB	312	901	62	128	60	225250
DK8EY	330	828	59	135	63	212796
DL0DX	328	822	62	135	56	207966
UV5U	338	786	63	151	33	194142
NX4W	322	709	58	126	87	192139
DL4NN	305	735	62	146	52	191100
VE6YR	304	708	58	92	105	180540
VE5SF	266	644	55	98	95	159712
5R8GQ	304	911	35	100	26	146671
FY5FU	276	823	30	54	83	137441
WA0SXV	255	569	57	115	68	136560
W6JOX	250	537	64	102	82	133176

W6KNB	281	627	50	87	74	132297
N9QQK	247	651	48	122	32	131502
NW6S/4	63	721	46	115	21	131222
JA2ZJW	260	734	44	75	38	115238
HB2HQX	280	609	47	133	3	111447
W8OSE	192	555	54	123	10	103785
RV1AQ	233	542	53	124	9	100812
4U1WB	243	492	38	66	69	85116
JA7IC	139	409	41	88	16	59305
NW0L	142	325	35	69	39	46475
W0DET	139	308	36	64	38	42504
KC7V	77	206	35	59	12	21836
EA4ZB	64	166	26	38	22	14276
M0CFV	57	145	19	34	15	9860

Single Op, All Bands, Low Power

Call	QSOs	Pts.	Z	C	SP	Total
W2UP	1635	4103	103	313	183	2457697
AA5AU	1588	3514	100	264	210	2017036
VP5JM	1420	3671	76	199	174	1648279
ZX2B	1396	4155	64	181	125	1537350
RU3QW	1225	2801	101	329	97	1476127
ER6A	1235	3029	82	267	134	1463007
VA3DX	1055	2779	89	249	168	1406174
DA200O	1170	2732	84	261	131	1300432
KH0/JH8KYU	1306	3902	67	182	83	1295464
LTHO	1097	3257	70	186	130	1257202
4Z5CP	1177	3378	81	222	66	1246482
EU1DX	1034	2576	96	263	122	1239056
F6AUJ	1042	2590	91	248	135	1227660
WB8YJF	1053	2551	84	228	141	1155603
EY8MM	1011	2797	87	251	40	1057266
N2KI	1088	2446	73	204	152	1049334
LX1NO	999	2541	77	221	113	1044351
EA1CRB	944	2236	85	247	124	1019616
UF3CWR	999	2464	77	221	113	1012704
OK2VWB	841	2090	90	265	126	1005290
CO8LY	1005	2491	67	170	148	959035
KI6DY	945	2147	74	183	141	854506
EI4DW	872	2206	65	198	121	847104
IV3ARJ	757	1896	84	234	128	845616
W4/KL7Q	903	2144	69	196	118	821152
S51MM	823	2063	75	196	122	810759
WA1EHK	730	1838	84	212	118	760932
S56A	644	1605	90	246	113	720645
YO3JF	798	2005	64	171	98	667665
CX7BF	799	2374	52	119	109	664720
N6OJ	836	1686	71	154	162	652482
8P6SH	669	1756	71	187	111	647964
YB5OZ	770	2283	75	170	34	636957
SM7BHM	726	1719	75	210	83	632592
OK2PMS	727	1679	76	213	86	629625
HA4YF	665	1609	79	221	87	622683
JK1IQK	591	1652	85	184	79	574896
RV3QX	668	1519	76	224	76	571144
DL3NG	654	1534	71	204	91	561444
SM5UFB	639	1557	76	191	88	552735
SP2EWQ	524	1327	88	213	95	525492
YV5AAX	593	1753	53	146	94	513629
JL6HKJ	551	1573	70	187	69	512798
EC8AU	771	2308	36	95	89	507760
W3MEL	659	1579	57	158	105	505280
OK2WY	564	1423	73	192	90	505165
DK3VN	569	1405	73	194	89	500180
K1RO	604	1498	69	171	89	492842
DL7VOG	552	1324	79	201	89	488556
LU8HWD	518	1520	66	138	98	459040
WB2UEF/4	545	1278	73	182	104	458802
DL9NDS	556	1326	69	191	86	458796
4X6UJ	584	1706	60	157	47	450384
UA1AJW	515	1244	76	201	69	430424
SM4GVR	536	1304	66	168	74	401632
FR5GS	637	1908	37	99	65	383508
IV3KAS	560	1255	65	174	58	372735
SM6BSK	445	1109	66	184	79	364861
OH4BB	489	1164	71	192	48	362004
UA0AGI	434	1176	74	190	36	352800
N3UN	434	1125	68	172	71	349875
RA9XF	493	1403	57	165	17	335317
LZ2PI	434	1068	70	158	82	331080
RA4CTR	518	1212	65	161	47	330876
UA9CDC	474	1380	46	167	22	324300
DX1S	455	1338	70	158	14	323796
DM5GI	450	1032	67	192	47	315792
WA3KPP	426	1043	63	154	79	308728
GU0SUP	429	1043	64	157	74	307685
9A6ACY	464	1123	55	148	67	303210
VE1AOE	562	1474	36	99	69	300696
K2YJ	417	990	64	157	82	299970
VE3RZ	411	1026	65	143	84	299592
K5ID	418	987	67	151	82	296100
YL2GC	426	1018	63	165	59	292166
UR5MID	420	1010	64	170	44	280780
I1BAY	434	975	63	175	49	279825
NOHR	419	908	69	148	91	279664

IV3IIM	420	1009	57	144	73	276466
SP4MPH	390	982	67	147	67	275942
G0URR	448	1040	57	160	45	272480
OK1LL						

HB2DOD	132	338	40	68	32	47320
DL2ZAV	161	344	40	78	17	46440
LZ2MP	153	351	40	90	2	46332
W3FQE	135	367	31	72	18	44407
WA6BOB	154	286	42	46	64	43472
WA3GPP	129	285	42	70	36	42180
K0BJ	115	299	39	77	22	41262
XE1YYD	110	282	38	62	37	38634
W9IXX	120	312	32	67	18	36504
K9BJM	124	279	38	64	27	35991
K8CV	113	241	35	56	44	32535
OH1UP	109	259	29	78	16	31857
ND8L	97	260	34	63	16	29380
UX3MR	122	280	24	66	13	28840
Z31JA	87	241	34	49	34	28197
OH2OM	100	248	32	61	18	27528
JH5OXF	94	263	33	59	12	27352
OK2WH	121	291	17	42	34	27063
WD9EWK/7	91	185	33	42	41	21460
XE1ZVO	89	201	22	28	46	19296
CU7BC	71	178	30	52	24	18762
AB1BX	93	180	19	37	37	16740
F6FTB	92	180	24	43	24	16380
UA6LP	67	169	34	53	7	15886
OK1DOL	77	196	17	28	16	11956
EA7/OH2GI/P	69	158	16	35	14	10270
VE2FFE	55	145	20	35	15	10150
JA8GTO	47	135	26	40	7	9855
K6RFM	59	108	26	24	30	8640
IK0STM	41	112	28	36	8	8064
F5PVJ	37	101	37	34	7	7878
LZ5AZ	49	125	17	29	6	6500
W2LE	43	119	12	30	5	5593
JG1OWV	32	92	20	26	7	4876
IK2REA	27	79	12	12	11	2765
UR5FCM	35	76	9	24	1	2584
W5WZ	29	51	12	12	19	2193
9A3CY	33	68	8	20	0	1904
N2ALE	25	30	10	9	19	1140
UA2CZ	15	26	8	13	0	546
SP6NVK	5	15	5	5	0	150
RU6CT	2	4	2	2	0	16

Nevada on RTTY

Shelby Summerville, K4WW

k4ww@aol.com

Noticing from the 2000 ARRL RTTY Round Up score posting that many missed Nevada, in a moment of brilliance, I emailed my friend, K5RC, in Reno about the possibility of operating from there in 2001. Since this request was made in January, almost one year from the next RTTY Roundup, Tom, K5RC advised "get back with me in about six months"! In mid 2000, further communications revealed that this was indeed a possibility. Lacking technical expertise, I exchanged several emails with Eddie, G0AZT, about accompanying me on this "fun fling". He agreed, and we proceeded to make plans for what we hoped would be a "rare multiplier" in the RTTY Roundup. Little did we know that Nevada would be represented by several other stations!

After our arrival in Reno, we spent Thursday night in a hotel, and departed for K5RC on Friday morning. Having spent little, if any, time driving on mountain roads, it was an experience, to say the least. Upon arriving at K5RC, we (actually Eddie) started converting K5RC from a "world class" contest station to a "world class RTTY" contest station! Eddie brought two PK-232 TNCs and, what we hoped, would be sufficient cables. With some help from the K5RC "junk drawer", the conversion was completed and we were testing within about four hours. There was no planned pre-contest activity, so after about two "test" Q's, things were shut down to await the start of the contest.

We started on 10 meters and stateside Q's were plentiful, especially in the first two hours. Phil, GU0SUP, was the first DX contact, also on 10, just 13 minutes into the contest. Having no experience with "left coast" propagation, I had no idea of what or when to expect to work where! Having multiple antennas on each band was also a new experience and it allowed several contacts that only a single antenna, most likely, wouldn't have. Most of our time, especially the first 11 hours, were spent CQ'ing. In "hindsight", more time tuning the bands may have proved more productive, as when we did tune the band, several new stations were worked that were also calling CQ. A decision was made to take the mandatory six hours off at 0755Z.

As with most RTTY contests, 80 meters was our least productive band. I still don't have a clue as to why stateside stations, especially when each Q counts the same, are reluctant to operate on 80 meters. The "upper" bands (10, 15 and 20) produced 85% of our contacts. As this was the first time Eddie and I had operated together, I'm sure that this contributed, somewhat, to our "less than expected" score? Knowing one another's operating habits, and working "together as one", in my opinion, is very instrumental in a multi-op situation.

All of the "negatives" of this operation, and there were few, were far outweighed by the "positives"! The hospitality shown us by Tom and Midge was literally "second to none"! I will be eternally grateful to them, not only for allowing our operation from K5RC, but for taking us in, almost as if we were "family"! Of course, with Midge having spent some time in England, she and Eddie were able to "converse" as only a "fine Southern lady" and an Englishman could. Most of the time, I had no idea what they were talking about, so I would just "nod"!

I guess that a "summation" of this "fun fling" would be that Nevada was provided to those that needed it, and a great time was had by all!

Hits & Misses, continued from page 3

This issue also contains the complete results for the 2000 CQ/RJ WW DX RTTY Contest (September 2000) and the CQ/RJ WPX RTTY Contest (February 2001). Have a look at who scored what. These guys KNOW how to work a lot of RTTY in a short time. Also, notice the plaque winners and sponsors on the sheet inserted in this issue. These are very nice plaques and one of the little extras you get when you operate in a RTTY contest. If you get a chance, thank the plaque sponsors. If you have the urge to sponsor one or more plaques, please talk with Glenn Vinson, W6OTC, the contest manager for both the WW DX and WPX contests.

See you in the fall.
73 de Bill, K9GWT

Up-to-date Contest Information

www.rttyjournal.com/contests



2001 CQ/RJ World Wide WPX Contest Results

February 10-11, 2001

10 Meters

Call	QSOs	Pts.	Mults.	Score
LU6FAZ	645	1919	373	715787
LU8EKC	648	1916	372	712752
RN6BN	759	1804	386	696344
LW7EIC	610	1807	365	659555
HG1W (HA1YA)	621	1622	370	600140
WS7I	654	1441	374	538934
AN7FTR (EA7FTR)	644	1533	330	505890
W7TI	606	1348	358	482584
VE4COZ	566	1471	313	460423
4U1ITU (OM1AM)	545	1457	310	451670
AK6R	563	1190	323	384370
DH6LS	478	1230	310	381300
ON7NQ	485	1299	289	375411
VE1AOE	479	1201	279	335079
W5FR	456	1088	284	308992
N76K	500	1023	286	292578
K8AA	400	1076	271	291596
JA1SJV	337	950	249	236550
GONWY	252	665	171	113715
UR5FD	243	616	184	113344
UV5U (UX1UA)	249	649	173	112277
SW2A (SV2AEL)	244	584	178	103952
KB5KY0	251	574	181	103894
DJ6TK	224	579	177	102483
VP9GE	212	544	161	87584
JH1OAI	194	553	157	86821
LZ1CF	200	490	157	76930
RA2FB	204	460	164	75440
SM5FNU	180	460	154	70840
LY2CG	168	429	135	57915
UT6I	179	405	132	53460
IZ2AVK	150	397	119	47243
AM1CXH (EA1CXH)	150	327	115	37605
RW0LZ	118	327	103	33681
KB7RTA	134	285	108	30780
OK2PMS	121	335	90	30150
RK6AWJ	130	295	97	28615
OH2GI	107	285	91	25935
OK1DCP	109	290	88	25520
VY1MB	124	268	93	24924
I7PXV	79	216	64	13824
YQ9HP	78	199	65	12935
HC1JQ	73	219	59	12921
LW5DR	67	194	63	12222
OZ1IRJ	65	180	62	11160
CX6VM	64	182	56	10192
F6EAS	50	132	43	5676
DL5NAV	34	83	33	2739
UA6LP	35	89	30	2670
OM1AVV	31	88	30	2640
7M4POL	18	52	18	936

15 Meters

Call	QSOs	Pts.	Mults.	Score
9A5W	894	2319	475	1101525
EO6F (UX0FF)	931	2286	456	1042416
AC1O	758	1829	391	715139
T94MZ	715	1784	391	697544
RN3OA	722	1729	396	684684
ON7UI	637	1637	387	633519
LZ2K (LZ2VL)	621	1536	365	560640
K9USA	602	1491	355	529305
W7WW	654	1409	367	517103
RD0C	514	1380	319	440220
W9HLY	486	1204	318	382872
EA9AK	461	1386	270	374220
EC2ADR	491	1156	296	342176
SN2X (SP2DWG)	452	1152	288	331776
CN8KD	379	1136	247	280592
WQ6/G0AZT	464	958	290	277820
W4LC	396	997	270	269190
SM6BSK	366	902	257	231814
LZ2JA	395	908	239	217012
W9ILY	347	819	255	208845
JA3EVZ	314	878	233	204574
JA2BY	293	815	223	181745
US0YA	305	705	213	150165
UT0H (UT1HT)	272	631	192	121152
DL6UAA	232	577	173	99821
OK2SG	150	363	131	47553
IT9NVA	160	371	126	46746
UN9FD	132	358	113	40454
JR1KSK	133	366	109	39894

EC3AHT	141	332	120	39840
VE6JY	146	364	108	39312
IK2DHU	130	333	107	35631
EA4BQG	121	298	110	32780
DL2RUG	116	301	100	30100
YO2BZV	90	210	74	15540
DL5AKF	82	190	70	13300
RN2FA	77	193	68	13124
OM7PY	60	148	55	8140
SP9JCN	34	88	32	2816
AD6G	22	37	21	777
JR4GPA	18	47	16	752
LZ4BU	5	15	5	75

20 Meters

Call	QSOs	Pts.	Mults.	Score
DJ7AA	895	2205	468	1031940
9A7R	771	1894	439	831466
9A8A	782	1903	416	791648
OH2BP	720	1704	392	667968
CT1AOZ	660	1596	377	601692
CX7BF	511	1518	315	478170
IT9RZR	475	1076	287	308812
WW4KY (K4WW)	456	976	296	288896
SN7N (SP7PS)	432	990	277	274230
SM3LBP	419	972	280	272160
PT2BW	330	982	233	228806
YU7AE	386	847	260	220220
DN1JC	356	785	242	189970
UA3LEO	342	740	230	170200
ES4RD	329	771	214	164994
VE7FO	290	713	170	121210
UT2AU	249	548	184	100832
EU1MM	235	540	178	96120
RU0BB	200	539	164	88396
RW9MZ	190	516	152	78432
YB0ECT	184	546	137	74802
SV1DPI	214	461	155	71455
LX9EG (LX1NO)	195	421	152	63992
RA3DRA	193	418	136	56848
G0NUP	196	407	138	56166
VA3XRZ	161	391	133	52003
WG7Y	212	302	136	41072
GM4CXM	142	321	119	38199
JH1RFM	86	242	84	20328
U1BB	92	193	82	15826
VA7BM	90	186	75	13950
YO3II	81	171	76	12996
7K4QOK (JR2BNF)	69	191	62	11842
K4GMA	55	120	52	6240
JABAGI/1	45	117	43	5031
W4XDX (W1KCD)	55	84	39	3276
9V1XE	1	2	1	2

40 Meters

Call	QSOs	Pts.	Mults.	Score
9A6A	531	2488	318	791184
RA6AZ	513	2270	307	696890
EO1I (UT1IA)	391	1640	240	393600
UT2II	370	1592	237	377304
US2YW	344	1566	233	364878
OK2CLW	345	1507	228	343596
RU6AV	274	1166	199	232034
EU1DX	252	1136	185	210160
AF4Z	271	994	184	182896
RV9BB	201	1144	153	175032
OK2VYG	217	916	159	145644
RA3WMMW	209	862	142	122404
W3SE	247	752	155	116560
T94DO	192	796	132	105072
S54A	152	680	124	84320
SM6FUD	128	562	102	57324
8S3A (SM3DXC)	78	330	66	21780
DJ2YE	52	218	50	10900

80 Meters

Call	QSOs	Pts.	Mults.	Score
S54E	433	1862	252	469224
9A30Y (9A5AZ)	411	1762	233	410546
S51DX	388	1594	228	363432
UW2N (UT5NM)	310	1262	200	252400
UX1IL	293	1188	184	218592
9A7P (9A5AEI)	293	1190	178	211820
RZ3BW	269	1072	172	184384
YL2GC	262	1080	169	182520

EU1AZ	236	988	155	153140
S51AY	242	968	155	150040
OK2PHI	193	784	136	106624
T95DKA	92	372	74	27528
TA7J9	64	364	60	21840

Multi-Two

Call	QSOs	Pts.	Mults.	Score
HC8N	3486	12333	682	8411106
YL4U	2137	6312	573	3616776
UT9F	1992	5928	516	3058848
S53S	1835	5464	547	2988808
OH7N	936	2355	410	965550
WB8SKP	529	1137	243	276291

Ops:

HC8N: N5KO, W6OTC, N4GN, K7PN
 YL4U: YL2KF, YL3DW, YL3GDJ, YL2KL
 UT9F: UT9FJ, UR5FEO, UR5FJF, UR5FFC, UR5FEL, UR5FCZ, US-F-55, US-F-3000
 S53S: S50N, S50M, S57II0, S57LWG, S58DX
 OH7N*: OH7MN, OH7UE, OH7KMM, OH7JT
 WB8SKP: WB8SKP, KA8CVE, KC8GKK, WD8OWA

* Moved from submitted class due to rule infractions.

Multi-Multi

Call	QSOs	Pts.	Mults.	Score
RK0AXX	2822	9875	622	6142250
W4GKM	1318	3344	444	1484736
JA6ZPR	880	2518	395	994610
EA4ART	817	2198	333	731934
KE6YTT	934	1688	312	526656
SV1DKL	612	1722	280	482160
RW2F	99	345	80	27600

Ops:

RK0AXX: A0AM, RU0AB, RU0AM, RW0AR, RU0AT, RU0AAB, RU0AFA, RV0AR, RV0AU, RV0AX, RAOALM, UA0AGI, UA0ANW, UA0VW
 W4GKM: W4GKM, W4RRE
 JA6ZPR = JH6JSR, JR6CKX, JR6CKY, JJ1RJR
 EA4ART*: EA4OI, EA4AZJ
 KE6YTT*: KE6YTT, KE6YTW, KR6E
 SV1DKL*: SV1DKL, SV1DNW
 RW2F: RN2FA, UA2FX

* Moved from submitted class due to rule infractions.

Multi-Single

Call	QSOs	Pts.	Mults.	Score
HG1S	1734	5572	536	2986592
RK3AH	1762	5147	531	2733057
AH6OZ	1630	5568	473	2633664
Z30M	1564	4950	479	2371050
MW2I	1554	4524	491	2221284
LY8X	1473	4553	477	2171781
KP2D	1477	4145	476	1973020
RW9C	1256	4558	413	1882454
HG5C	1292	3852	448	1725696
OLSQ	1076	3706	424	1571344
SP5ZCC	1113	3302	437	1442974
UY8IF	1226	3501	405	1417905
LZ2UF	1076	3157	358	1130206
RK3RWL	1073	2896	384	1112064
KJ7TH	1101	2356	417	982452
VE3FJV	891	2607	374	975018
VE5RI	977	2553	379	967587
RK9CZO	860	2808	343	963144
KR6RF	1154	2403	400	961200
EA2RCA	914	2634	348	916632
J43BSF	922	2378	355	844190
SP1MHV	717	2280	330	752400
UZ4E	697	2111	303	639633
AE4RO	705	1666	333	554778
LU4DRC	536	1584	285	451440
F5KQN	476	1280	257	328960
LY5W	390	1220	226	275720
YU7AL	402	1147	227	260369
SP4KSY	363	1148	189	216972
F8CHR	341	962	192	184704
LA1K	313	727	200	145400
SN6U	239	629	163	102527
F6KWP	180	503	125	62875
SP1PLA	134	322	112	36064

Ops:
 HG1S: HA1TJ, HA1DAE, HA1DAC, HA1DAI
 RK3AH: RK3AH, RU3FM, RX3DCX, RA3ATX, UA3ASZ, RV3BA
 AH6OZ: AH6OZ, KH6ND, AH7R
 Z30M: Z31GX, Z31JA, Z32XA, Z32XX, Z32PT, Z33F, Boko, Igor, Vladimir.
 MW2I: GW4JBQ, GW5NF
 LY8X: LY2BIL, LY2BKF
 KP2D: KP2N, NP2E, NP2W, NP2DJ, NP2DZ, WP2S, W5TTY
 RW9C: UA9CGA, RW9CF
 HG5C: HA5LV, HA5MA, HA5WE, HA5WU
 OL5Q: OK1HRA, OK1FFU, OK1FLC, OK1VSL
 SP5ZCC: SP5UAF, SQ5BPM, SP5LCC, SQ5EBL
 UY8IF: UY8IF
 LZ2UF: LZ2UF, LZ2AU
 RK3RWL: RN3RC, RK3RX, UA3RSO, RZ3RC, UA3RJH
 KJ7TH: KJ7TH, KW7N
 VE3FJB: VE3FJB, VE3JM, VE3NDA, VE3ALH, VA3CW
 VE5RI: VE5CJR, VE5FN, VE5WI, VE6EZ, VE6VAC
 RK9CZO: RX9CAZ, RA9CDH, RX9CGR, RA9CDF
 KR6RF: N6DE, N6EE, W6XK
 EA2RCA: EC2AFA, EA2CZY, EA2BFM, EA1OZ & Gloria
 J43BSF: SV1CIB, SV3BSF
 SP1HMM: SP1MHV, SQ1FTD
 UZ4E: UR4EYN, Igor, Alex, Andy
 AE4RO: AE4RO, AE4SW
 LU4DRC: LW1DZT, LW6DKO
 F5KQN: F5PFT, F5PGO, F5SNZ, F5SNY
 LY5W: LY1DR, LY1FW
 YU7AL: YU7AL, YZ7EM, 4N7RGH
 SP4KSY: SQ4TY, SQ4NR, SQ4CCG, SQ4IND
 F8CHR: F8CHR, F5TEF
 LA1K: LA5GKA, LA5LKA
 SN6U: SP6NVK, SP6OPE
 F6KWP: F5IVX, F5RKL, F-11734, F4CSJ
 SP1PLA: SQ1FTB, SP1 22014

* Moved from submitted class due to rule infractions.

Single Op, All Bands, High Power

Call	QSOs	Pts.	Mults.	Score
P43P	1798	6076	552	3353952
EM0I (UT2IZ)	1694	4832	524	2531968
UP5P (UN5PR)	1478	4831	483	2333373
JH4UYB	1337	4198	489	2052822
VA3DX	1272	4222	474	2001228
HK3WGQ	1253	4080	463	1889040
UA9CLB	1263	4386	427	1872822
K4GMH	1404	4157	438	1820766
UA4LCQ	1358	3725	468	1743300
UA9CDV	1150	3917	431	1688227
W1ZT	1235	3416	454	1550864
K1AM	1202	3235	447	1446045
ND5S	1184	3166	440	1393040
HA3LI	1009	3251	416	1352416
LY3BH	1046	3260	413	1346380
W0ETC	1232	2944	443	1304192
YU7YG	1029	3016	412	1242592
DK0EE (DL4MDO)	969	3107	380	1180660
SK4TL (SM4RGD)	1031	2841	415	1179015
S56A	981	2962	397	1175914
KZ6D (K6AW)	1225	2629	445	1169905
NW2B	1071	2902	401	1163702
W2YC	1027	2948	394	1161512
OH2LU	995	2791	404	1127564
SM5FUG	864	2810	388	1090280
US9QA	987	2746	385	1057210
WW7OR (W7GG)	1097	2429	432	1049328
RX9JM	898	3006	349	1049094
RA3ANI	950	2714	362	982468
K7WM	1073	2368	407	963776
I1COB	886	2664	359	956376
W1RY	913	2465	373	919445
NW6S	921	2396	379	908084
I4GHW	863	2498	361	901778
HA8IE	830	2309	390	900510
UA4CJJ	963	2500	341	852500
RD4M (UA4LU)	907	2300	364	837200
K7ZUM	974	2084	400	833600
G5G (G0LII)	751	1912	434	829808
I2EOW	779	1885	433	816205
KA2D	809	2221	348	772908
TA7I	674	2668	282	752376
W4UK	870	2020	361	729220
RZ1AZ	786	2142	336	719712
JA1BWA	723	2046	347	709962
K3DUG	753	2162	327	706974
NX4W	848	2004	349	699396
OK2BXW	706	2117	330	698610
ZL2AMI	632	2158	315	679770
IK2RZP	689	1943	344	668392
OM3RM	693	1803	353	636459

PY2NY	640	2017	309	623253
WOHW	780	1786	331	591166
LA7CL	629	1879	308	578732
AM3RH (EA3RH)	699	1780	320	569600
VR2BG	642	1720	331	569320
K3WW	609	1765	318	561270
RX3VM/4	673	1723	300	516900
DK1WI	566	1625	284	461500
NA6E	783	1520	301	457520
WA8RPK	630	1511	300	453300
W9KEN	724	1388	325	451100
W7CT	644	1397	297	414909
K5ZD	475	1541	268	412988
W6IWO	733	1363	289	393907
KY5I	566	1333	295	393235
DL8NBE	500	1647	233	383751
AD6KA	636	1279	276	353004
EU1SA	428	1405	250	351250
N5RXF	678	1319	265	349535
VE5CPU	578	1452	236	342672
I1WBW	503	1454	233	338782
F2AR	457	1358	222	301476
N2BJ	410	1123	262	294226
K8YE	432	1101	257	282957
CQ2CEC (CT1BNW)	429	1095	250	273750
JA7IC	385	1168	234	273312
OK2PCL	449	1118	244	272792
DU3NXE	412	1234	207	255438
DL6JZ	391	1180	209	246620
UA0CW	358	1003	235	235705
W6KNB	456	1009	232	234088
K6HGF	570	968	238	230384
DF3IAL	397	983	228	224124
N2FF	366	1020	219	223380
K1RO	332	967	216	208872
VE6YR	402	1012	201	203412
KE5OG	492	909	220	199980
WA0SXV	335	787	252	198324
W1SRD	436	848	210	178080
GI4KSH	251	965	184	177560
RA3BB	311	809	201	162609
IK4WMM	303	838	191	160058
F8BQQ	272	826	189	156114
KF9YR	342	765	199	152235
W3FV	270	754	180	135720
IK0PHV	266	757	165	124905
RW9WA	241	875	142	124250
DK8EY	236	774	160	123840
RV1CC	198	635	156	99060
W2JGR/0	293	626	156	97656
4U1WB (AJ3M)	246	631	143	90233
W3GQ	228	520	164	85280
DL7UFN	203	572	143	81796
VE9MY	198	514	150	77100
W6JDX	235	464	133	61712
SP4TXT	186	461	130	59930
W7DPW	204	377	147	55419
N8BJQ	163	399	122	48678
K0BX	150	381	112	42672
K5AM	191	341	119	40579
LZ2PL	90	216	69	14904
W6IHG	86	208	71	14768
K7ZO	36	88	27	2376

Single Op, All Bands, Low Power

Call	QSOs	Pts.	Mults.	Score
AA5AU	1567	3774	497	1875678
ZX2B (PY2MNL)	1256	3742	482	1803644
VP5JM	1237	3613	437	1578881
WT4I	1346	3306	449	1484394
LY6M (LY1DS)	1081	3227	429	1384383
NQ4/KL7Q	1201	2991	438	1310058
N2WK	1150	3072	426	1308672
UF3CWR (RZ3AZ)	1174	3126	412	1287912
RZ9OU	929	2809	378	1061802
VE2AXO	940	2662	382	1016884
KI6DY/0	1118	2480	406	1006880
LV5V (LU5VV)	864	2584	387	1000008
3Z9U (SP9UNX)	914	2701	367	991267
S51MM	858	2614	366	956724
AD1C	925	2511	381	956691
LTOH (LU3HY)	839	2569	367	942823
UW5U (UX1UA)	911	2536	368	933248
S57U	845	2513	368	924784
K3GP	925	2215	396	877140
RA3WA	883	2574	339	872586
4Z5CP	769	2651	316	837716
YU7AM	809	2526	327	826002
YV5AAX	738	2397	344	824568
OD5YJ	774	2660	303	805980
F5JKK	784	2219	362	803278
LZ9R (LZ3YY)	857	2399	334	801266
UT7I (UT2IO)	839	2184	345	753480
W4UEF	771	2224	330	733920
ON4AME	715	2230	323	720290

DL1YFF	739	2061	341	702801
RZ9CX	742	2275	305	693875
EA8/DJ1OJ	680	2053	333	683649
DK3GI	662	2057	321	660297
SV/OK1YM	734	2235	292	652620
FK8VHN	633	1878	333	625374
AM5RM (EA5RM)	696	1876	325	609700
AN4CI (EA4CI)	787	1931	315	608265
MM0BQI	674	1678	332	557096
KE4KWE	766	1723	320	551360
RA9XF	596	1936	282	545952
YU7NW	632	1711	312	533832
UA3SAQ	655	1821	291	529911
ER6A (?)	640	1800	291	523800
SM5UFB	636	1784	291	519144
RU0LL	576	1655	303	501465
SM6WQB	572	1684	294	495096
W3MEL	623	1570	313	491410
RV3QX	623	1642	297	482764
OH4BB	615	1704	283	482232
K0BJ	689	1533	314	481362
VE6RAJ	655	1693	280	474040
EA9CD	512	1535	308	472780
IK2XRW	606	1668	280	467040
YL1ZF	643	1631	283	461573
EY8MM	548	1620	283	458460
RU3AT	571	1696	270	457920
YO3APJ	535	1562	292	456104
AN1BAF (EA1BAF)	585	1578	289	456042
VA6MM	669	1661	274	455114
NH6XM	581	1911	236	450996
SM6SRW	532	1688	262	442256
JL6HKJ	555	1533	288	441504
K0IDT	666	1417	310	439270
YL2KA	521	1728	253	437184
SM3ETC	556	1558	278	433124
YO3JF	589	1419	304	431376
OM1II	540	1669	258	430602
ZC4JP	490	1667	257	428419
KL7AC	631	1502	279	419058
F5PSI	509	1634	256	418304
RA3LBW	527	1530	272	416160
RW3TN	566	1361	292	397412
YO8FZ	521	1505	262	394310
DJ3NG	468	1486	284	392304
AM3GIP (EA3GIP)	507	1587	247	391989
SN2E (?)	467	1615	239	385985
UY3QW	538	1563	242	378246
ON4BCJ	489	1370	274	375380
RN3ZQ	499	1383	266	367878
V31SN	508	1330	270	359100
DF7ZS	494	1337	267	356979
SM7BHM	483	1492	236	352112
CT4MS	493	1319	265	349535
K8VT	574	1328	262	347936
YL2NN	486	1458	238	347004
US0KW	472	1526	226	344876
F/KF6EDK	490	1383	241	333303
DL8NFU	485	1328	250	332000
DL2AL	468	1333	246	327918
UA3LAF	511	1344	243	326592
N9CK	504	1171	277	324367
DK7ZT	435	1321	245	323645
SM5LNS	532	1311	245	321195
NA2M	492	1213	259	314167
NO4J	482	1163	266	309358
7S0Z (SM0NZZ)	443	1223	248	303304
AC6JT	600	1197	244	292068
RV6BO	473	1267	229	290143
DM5GI	398	1276	222	283272
VE3BUC	435	1228	228	279984
KOCIE/5	527	1110	238	264180
DL4MFP	391	1090	237	258330
VE2OWL	425	1160	218	252880
4L1BR	363	1181	210	248010
KF2XF	428	987	250	246750
AA8TC	402	979	252	246708
K5IID	438	1033	238	245854
DL7VOG	393	1020	238	242760
VK4UC	355	1178	205	

JA1XRH	360	1056	194	204864	GM4SQT	216	508	143	72644	W0RY	74	146	59	8614
JR3RIY	332	934	219	204546	SM3CER	188	569	126	71694	N2LEB	60	154	51	7854
K6EID	312	969	208	201552	WB5QLR	276	511	139	71029	SL4ZAE	62	148	51	7548
AK0A	375	868	230	199640	DL5YAS	186	521	134	69814	N4JN	56	143	52	7436
W9IL	345	871	229	199459	G0URR	198	456	153	69768	K9RRB	58	132	50	6600
SP8FHJ	332	1018	195	198510	SP4GHL	227	632	109	68888	ON4KMB	46	142	43	6106
IT9JOF	351	997	199	198403	IK3ASM	161	576	119	68544	UR5FCM	50	155	39	6045
OK2PEF	343	1003	197	197591	RW3DY	193	549	124	68076	NS8O	56	125	45	5625
4X6UU	298	1122	176	197472	N9LYE	233	482	141	67962	N7PWZ	52	100	43	4300
SP3RBG	344	1011	195	197145	LZ2PI	172	528	123	64944	UA3QIX	45	92	42	3864
SM2EKN	420	893	220	196460	N6TQS	238	464	137	63568	JK2VOC	40	102	31	3162
IK2QCF	334	910	214	194740	IK2BCP	155	496	128	63488	W5KI	35	78	33	2574
RW3LB	348	993	194	192642	OM6RU	191	462	137	63294	XE1ZTW	34	82	31	2542
UA3TN	396	903	211	190533	OZ6EI	178	490	126	61740	EA4BNQ	34	74	34	2516
GU0SUP	298	799	238	190162	W5BBR	205	427	144	61488	PA0EHF	29	90	27	2430
SM7ATL	317	923	205	189215	DM5JBN	168	438	132	57816	W1CSM/4	31	73	29	2117
UA4FX	378	879	213	187227	JA6BIF	159	454	125	56750	AN3BO (EA3BO)	31	72	29	2088
ON4KGL	348	873	214	186822	DJ2IA	159	451	119	53669	JH1TUX	28	77	25	1925
SP9LKS	305	928	201	186528	M0CFV	168	415	128	53120	SP5OXJ	26	73	25	1825
SP7DQR	325	840	221	185640	N9QQK	195	379	132	50028	JQ1UXN	24	67	21	1407
UA3XBB	338	905	201	181905	IV3KSE	146	434	114	49476	PU2NYV	22	60	21	1260
BV2WM	355	881	206	181486	DL3AY	155	404	122	49288	Z31GX	12	43	10	430
N4AN	379	845	214	180830	SP7A	144	436	111	48396	IK2REA	33	33	11	363
UA9AX	290	1051	169	177619	KE6QR	156	320	148	47360					
EW1EA	313	942	188	177096	WB7QBO	188	395	119	47005					
N1MGO	387	883	200	176600	K8MD	155	385	122	46970					
OZ5MJ	315	888	197	174936	KE1AU	148	369	125	46125					
OK2BMC	323	899	188	169012	KS0M	181	368	117	43056					
OK1OX	320	877	192	168384	LA5TFA	167	395	109	43055					
N5XUS	421	781	212	165572	JF2SKV	155	445	96	42720					
DL1EJD	298	788	210	165480	N8KM	150	409	103	42127					
ES1BH	301	904	183	165432	VA6RA	192	444	91	40404					
N3UN	323	815	202	164630	DL3JPN	137	362	111	40182					
DK4IO	300	829	198	164142	K6BIR	188	366	106	38796					
OM3PR	281	931	176	163856	WB9BSH	152	319	119	37961					
I0KHP	266	894	183	163602	WA9AFM/5	188	372	102	37944					
N3FR	315	814	199	161986	W4TIJ	173	327	116	37932					
WA6BOB	451	860	187	160820	WA9ALS	146	359	104	37336					
WA2LXE	390	871	182	158522	YT1Z (YT1WN)	122	405	92	37260					
DL2RR	292	867	178	154326	DL3ARK	136	370	100	37000					
ED1ZH	300	859	176	151184	DH9FAJ	144	351	105	36855					
S57AW	291	848	173	146704	IK5EEL	122	368	99	36432					
DL4RCK	273	763	192	146496	JA1BHK	122	348	104	36192					
DH5WB	317	754	194	146276	OK2WH	136	340	106	36040					
AN2BNU (EA2BNU)	284	834	165	137610	OK2CJM	129	504	71	35784					
JA1BUI	280	782	172	134504	DL4SDT	127	349	102	35598					
JA1XUY	290	829	162	134298	N3TG	149	311	114	35454					
W4AUJ	340	701	190	133190	W8IDM	156	335	104	34840					
AN5YJ (EA5YJ)	300	711	187	132957	OZ6TL	133	349	99	34551					
IK1ZFO	279	754	176	132704	KL9A/WU7	152	370	92	34040					
W1TO	297	754	173	130442	LZ2JE	120	332	100	33200					
SP2EXE	234	774	163	126162	RA1QIX	127	312	106	33072					
OZ9AG	270	655	187	122485	AM3AYP (EA3AYP)	129	314	101	31714					
F6FTB	250	744	164	122016	DL2RTJ	108	360	85	30600					
OK1AXB	237	715	170	121550	YO4UQ	134	304	100	30400					
RX3RZ	250	742	161	119462	RA4AFZ	122	350	86	30100					
N8YYS	229	652	178	116056	TF3VS	116	295	96	28320					
RW0BG	250	665	171	113715	UT5UML	118	298	94	28012					
LZ2MP	217	667	170	113390	HB9DCM	109	303	91	27573					
HA3VAM	237	708	160	113280	WD9EVK/7	118	270	90	24300					
N3NZ	295	614	178	109292	OM7JG	89	324	74	23976					
UT4EO	239	688	155	106640	OA4EI	103	298	79	23542					
AA5VN	297	564	189	106596	HA5BSW	109	253	93	23529					
WN3C	249	656	162	106272	W3FQE	107	258	90	23220					
N8KR	248	609	174	105966	K3MZ	102	254	87	22098					
WN1OTV	272	652	162	105624	EA1FAS	99	276	80	22080					
K3OK	265	655	161	105455	SP4CQU	87	266	76	20216					
SP3XR	233	692	151	104492	UA4LDP	102	249	81	20169					
AA9RR	276	600	174	104400	N3SOK	110	239	83	19837					
UA4WNH	253	686	152	104272	DJ1ARJ	94	284	68	19312					
UA9APA	192	729	139	101331	W2MKW	100	231	83	19173					
W3DSX	208	645	154	99330	DL5ZB	83	270	63	17010					
LY2IJ	254	627	157	98439	N3JIX	93	235	71	16685					
OK2CMW	198	666	144	95904	WE4V	98	217	75	16275					
SP3NUN	222	656	146	95776	HL2AMO	85	231	70	16170					
SP5CCC	222	659	142	93578	IZ0BXZ	93	199	77	15323					
UA4WNJ	241	576	160	92160	AE4EC	96	187	80	14960					
VA3SB	221	572	160	91520	DL5JWL	83	199	75	14925					
RA0ANO	214	585	154	90090	UA9XEN	65	243	60	14580					
HB9DBK	219	585	151	88335	S5OU	89	214	68	14552					
WO6M	274	575	153	87975	W6IT	103	201	71	14271					
DJ3IW	172	568	154	87472	JT1BG	130	346	40	13840					
SM7FTG	225	656	130	85280	K0XU	83	191	70	13370					
UX3MR	253	554	153	84762	EA2AVM	69	216	61	13176					
JA2UJ	217	621	135	83835	AA1SU	95	180	67	12060					
DH7DJ	216	541	154	83314	SP1/DL5CE/P	74	198	58	11484					
LZ1MC	215	564	145	81780	EA5IL	70	177	61	10797					
NW0L	209	500	160	80000	I7WTV	67	177	59	10443					
OM5KM	170	595	129	79980	AD6PC	90	152	68	10336					
LA5YW	202	561	138	77418	ZS1JY	63	187	53	9911					
ES2NA	197	609	127	77343	KC7WUE	77	157	63	9891					
XE1YYD	247	552	136	75072	PA0WRS	63	166	59	9794					
EA5FSC	192	512	146	74752	IK2WYI	65	171	57	9747					
KE0LY	196	490	152	74480	OE1KTS	60	188	49	9212					
SP1NQU	204	576	128	73728	W6ISO	83	142	64	9088					

Be sure to
check the Fall issue
for rules on the
2001 CQ/RJ World Wide
DX RTTY Contest

RCKRtty

For Windows 95/98/2000/ME/NT

RTTY, PSK31, Pactor, AMTOR, and CW

- Normal QSO and Full Contest operation in all modes with one package
- Supports major RTTY, PSK31, CW, and SSB contests
- Supported TNCs: SCS-PTC, AEA-x, KAM-x, MFJ-x, DSP-COM, HAL-Dx
- ★ **NEW:** Supports RTTY and PSK31 with PC soundcard
- Radio Control: Kenwood, ICOM, Yaesu
- Packet-Radio for DX-Cluster in same window
- ★ **NEW:** Waterfall display and spectrum analyzer
- Multilingual versions: English, Italian, Spanish, German, Dutch, Czech, Russian, Ukrainian, French
- Uses "friend.in", "master.cal", "city.dat"
- Powerful logging functions (edit, search, export...)
- Call, DXCC, State, CQ Zone, ITU Zone, WPX, and IOTA detection with automatic insertion
- Full contest operation with mouse
- Generate all contest reports
- Realtime QSO rates and other statistics
- Extensive documentation and Windows help file
- Free updates on the internet, e-mail reflector
- Many more features, write or e-mail for full details

Only \$45

Walter Dallmeier, DL4RCK
Odenwaldstrasse 4
93173 Wenzelbach, Germany
FAX: +49 9407 957139
e-mail: dl4rck@rckrtty.de
<http://www.rckrtty.de>

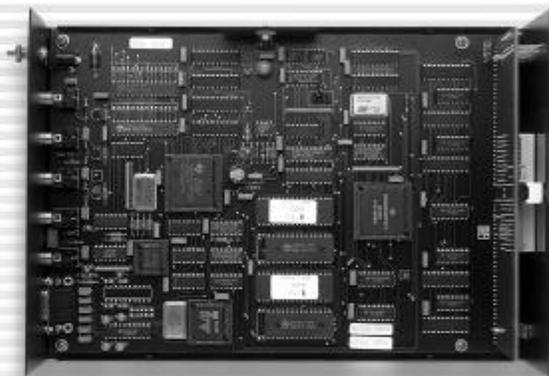


Next Contest, Work the Weak Ones



- ▶ Rugged and portable aluminum cabinet
- ▶ Unique Crossed-X tuning indicator displays M/S in FSK and CLOVER, and frequency center in all modes

- ▶ DSP filtering and Motorola microprocessor control
- ▶ Flash memory for easy software and firmware updates



- ▶ Connects to computer with a standard DB9 serial cable
- ▶ Radio connections made easy with phono connectors

DXP38 DSP HF Radio Modem

Modes: CLOVER-II, RTTY, AMTOR, P-MODE

Everything bad can and does happen to your HF signals, especially during a contest. Selective fading, noise, interference, and poor tuning indicators all conspire to let that rare DX get away. Track it down with the DXP38.

The DXP38 modem provides advanced digital signal processing the other do-everything analog designs can't. You can't work the rare ones if your modem can't copy them. The DXP38 will!



HAL COMMUNICATIONS CORP.

1201 West Kenyon Road, P.O. Box 365
Urbana, IL 61801-0365
Phone: (217) 367-7373 FAX (217) 367-1701
www.halcomm.com halcomm@halcomm.com