

Celebrating our 46th Year!



Merrill Swan, W6AEE
1953-1967



Dusty Dunn, W8CQ
1967-1977



Dee Crumpton, N6ELP
1977-1986



Dale Sinner, W6IWO
1986-1994



Jim Mortenson, N2HOS
1994-1997



Bill Henry, K9GWT
1998-

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*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 GMB H (SCS) firm in Hanau, Germany. HAL affirms that, to the best of its knowledge, "P-Mode" is compatible and interoperable with the protocol SCS calls "Pactor" and with the link establishment and weak signal modes of the protocol SCS calls "Pactor-II".



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Passing The Torch!



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HITS & MISSES

Bill Henry, K9GWT

ghenry@advancenet.net

Welcome to the second edition of *The New RTTY Journal*. I'd like to thank all of you for your strong support. In spite of claims that the Internet has killed the printed word, your many letters confirm my belief that a lot of us still like to read at our own convenience and that there is room for both printed and digital publications. This is a new experience for me and I'm learning every day. You've already made many suggestions - and please continue. We now have a staff of three - my wife Linda, Joe Wittmer, KB9SIZ, and me. Linda keeps the books and Joe does the work.

I hope you like this issue. Joe took many pictures at the Dayton Hamvention. We've printed the best of several hundred shots. I hope that you see your face in one of these shots, it's in focus, AND we put the right name and face together. I'd like to welcome Don Robert House to the RTTY Journal. I think you'll find his article about the NADCOM Museum for TTY equipment very interesting.

ARRL Bandplan: The ARRL has recently filed a request with the FCC that says in part: "... the American Radio Relay League, Incorporated, respectfully requests that the Commission issue at an early date, a Declaratory Ruling stating that 'good amateur practice' anticipates compliance with the accepted voluntary international, national, and regional band plans adopted by cooperation and coordination among individuals and licensees in the Amateur Radio Service."

The full text is available from the ARRL. The FCC has assigned file number RM-9259 to this request. While squabbles over VHF and UHF repeaters may have triggered the idea, it appears to me that the ARRL "HF Bandplan" would be part of this "Declaratory Ruling". *Didn't we have this "discussion" in 1994?* I've had a look at the "official" HF bandplan on the ARRL web page. I do not operate as much as you do, but I do know that this HF plan does not represent practices in the "real" world of 1998. The recently hard fought - and negotiated - sub-bands for automatic and semi-automatic HF BBS operations are nowhere to be found! Also, while the plan shows a "packet" sub-band for each HF band, no mention is made of AMTOR, Pactor, G-TOR, or CLOVER. AX.25 is a wonderful protocol for use on VHF and UHF, but few experienced users would even consider this mode

on HF these days. I think the ARRL needs help from those of us who do know what's happening on HF. While legislated sub-band control may be necessary above 50 Mhz, the ARRL has not made a good case to extend the policy to the HF bands.

But, I suggest that this may not be the time to "flame" and bury the FCC or the ARRL in verbiage. The ARRL needs help on their HF bandplan for digital modes. Who is better qualified to help than us "Mark/Space-types"? Let's work with the ARRL and write a *gentlemen's agreement* bandplan that IS realistic. Amateur radio has been through tough times recently. It's time to "circle the wagons", not shoot at each other!

Dayton, 1998: Well, it's history! And WHAT A SHOW! Depending upon who you talked to, attendance was "up", it was "down", "no change", or "who cares"! All did agree, however, that this was probably the best weather we've had for the Dayton Hamvention in many years. In fact, it was downright HOT! If you had the fortune(?) to stay at the "Quality" Inn, you soon learned a brand new meaning for "hot". The whole stay was a comedy of errors and "musical rooms" for many of us. All of us associated with making the arrangements are embarrassed - and vow to find other solutions next year. I'll have much more to say on this topic as the year develops. Dale Sinner has no doubt qualified for "sainthood" for all of his efforts on our behalf. Regardless of how poor the hotel was, the RTTY spirit prevailed and we ALL had a great time. This included two banquets of great food, hospitality activities into the wee hours every night, and a full-house RTTY forum at Hara Arena. The Friday night Contester's and DXers banquet was hosted by Ron Stailey, K5DJ. Plaques for both the '97 CQ/ RJ WW RTTY Contest and the '98 WPX Contest were awarded. After dinner speakers included Ray Ortgeisen, WF1B/P4OTT, on his recent DXpedition to Aruba, and Buddy Ashley, WB4M, on the DXpedition to Palmyra. Saturday night's dinner was hosted by Fred Groce, K0FG. After dinner, Jan Heise, K4QD described his recent adventures at Guantanamo Bay, Cuba (GITMO). Door prizes were awarded at both banquets.

See you in the August issue. **de K9GWT**



NADCOMM MUSEUM

The North American Data Communications Museum
Fallbrook, CA
Prospect Heights, IL
Sandy Hook, CT

Don Robert House
nadcomm@usa.net

NADCOMM

What the heck is NADCOMM? Back in 1984 I was visiting a telephone equipment supplier in Virginia. During the tour of the facility I noticed a 35 ASR Teletype with only 50 hours on the hour meter! It was being loaded for the scrapper. I objected and the company gladly sent it to me via Roadway Express along with a second 35 ASR for parts and a 35 RO. Why would I want these machines? After leaving the US NAVY in 1966 I went to work for Illinois Bell as a Teletype Repairman. I spent years working on the "beasties". I also needed a machine to make mailing labels for our old car club. I rewired the monster for use on-line and swapped a sprocket feed typing unit for the friction feed one. As time went on, the idea of collecting and preserving older Teletype and early data communications equipment was brewing in the back of my mind. It all came together in 1996 when I let several people know I was going to establish a volunteer museum.

Many of my old friends from Illinois Bell thought the idea was unusual but interesting and several "got the bug" and assisted in finding many old and interesting items. Since I have attended more than 25 training courses at the Bellcore Training Center in Lisle, IL, many of these folks got to know me pretty well and decided to donate equipment instead of sending it to the landfill. I found many test sets have been saved from the scrapper by the owner of Radio Station WNIB in Chicago, Mr. Bill Florian. My long time Illinois Bell friends Frank Frisch and Bob Cnota helped collect and store many of these items. When I retired from Ameritech in September of 1996, the collection took up quite a bit of space in my basement and in a 20' x 30' storage facility. When we moved to Fallbrook in Southern California it took an additional \$4,000.00 to transport the equipment.

In Fallbrook, we began by storing the equipment in a storage building, but the rent was \$112.00 per month, which I did not want to spend. My wife suggested making the garage into a museum. I worked day and night to bring all of the stuff here and set it up. Many things I could not have done without the help of local friend and engineer, Bob Gordon. Then my long time friend Roger Bindl volunteered to set up our website and the rest as

they say, "is history." You can view our website at:

<http://www.hem.com/nadcomm>

Pacific Bell found out I was using ISDN to telecommute and asked if they could do a story on me for the Internet. I said "sure." When the scout came here he saw the ISDN installation, but was more impressed with the museum collection, which by then included the ex-Bellcore DDS Hub and end-office equipment and a Model 26 TTY from the Pasadena area. After both a 3 hour photo session and a 2 hour interview the feature article was put onto Pacific Bells website. You can see and hear it by pointing your browser to:

<http://www.pacbell.com/others/stories/story12.htm>

After several months of keeping in contact with friends via e-mail, Jim Harvey, WB8NBS told me about the "Greenkeys" reflector. I signed up right away. I have since met many individuals who have contributed to the museum and have become both benefactors and friends. Several have now become members of our board of directors. Tom Kleinschmidt and Jack Hart have dedicated themselves to the effort by accepting appointments as Vice Chairmen and are making their collections available for people to see in the Midwest and Eastern regions. The preservation instinct is strong for those of us who started in the data communications business in the 60s. We are always looking to add additional equipment, supplies, literature, documentation and memorabilia. My son, Richard wrote our mission statement, which you can see on our website, however the ideas are well written and I would like to share them with you here:

"The North American Data Communications Museum (NADCOMM) is committed to the project of collecting, displaying, and operating the equipment which has powered the communications revolutions of the twentieth century, from telegraphy to digital telephony. The collection, largely donated by committed telecommunications workers and businesses, already encompasses a wide array of machines spanning the entire history of teletypewriters and the transition to contemporary digital modem technology. NADCOMM's goal is to counter the present state of communications history, marked by the quick and successive obsoles-

cence of "last year's models," by maintaining a working collection of functional equipment tracing the stages through which telecommunications technology has passed.

Curator Don Robert House and the NADCOMM staff believe that this project involves more than the nostalgia of the technophile. The advances in technology preserved in the NADCOMM collection have shaped not only the present state of technology but economic, social, and cultural history through their use in industry and mass media. Whether or not we accept the premise that these advances mark the transition of world history into a wholly new postmodern "Information Age," their impact on contemporary culture makes the unique project of NADCOMM a vital one. Moreover, the fact that equipment is displayed in a functioning state means that the NADCOMM collection remains a valuable resource for hands-on technological training for the communications professional and the interested layperson alike."

Thank you Rich, I couldn't have said it better myself! In addition to the equipment already mentioned we have acquired many unique and unusual items. This includes the CV89 RTTY FSK converter and an R-1051B receiver to receive Radio Teletype messages. We have equipment waiting to be picked up in several areas of the U.S. and hope to obtain a telegraph carrier system that is being preserved in Florida if we can figure out how to get it to one of our locations. Tom is hoping to rent a storefront location in the Chicagoland area where interested folks can see this technology without having to climb down basement stairs or fly to the foothills of Northern San Diego County.

Come on down and visit us sometime, just call or write first for an appointment.

Don Robert House
Chairman & Curator, NADCOMM
e-mail: nadcomm@usa.net

San Diego Show

The ARRL Southwestern Division convention will be held in San Diego on August 14, 15, and 16. The New RTTY Journal will be there with a hospitality suite open on Saturday night. Dale Sinner will again be helping us and we plan a technical forum for Saturday afternoon. Dale and Faye Sinner and Linda and Bill will be manning the RTTY Journal and HAL booths. Stop by and say hello. If you've never been to the San Diego show, better start thinking about it. It's a great town, the SANDARC folks run a well organized show, and the rooms have always been good at the Town and Country Hotel complex. See QST or the SANDARC web page for all the details:

<http://www.geocities.com/SiliconValley/Lakes/8400/convnt.html>

1998 Dayton Hamvention



Jody Millspaugh, VP5JM Ron Stailey, K5DJ
 Jody set a record earning the First North America Plaque!
 1997 CQ/RJ DX Contest



Al Hernandez, K3VN
 Winner of the RTTY-1 door prize!



Wayne Wright Don Hill Ron Stailey
 W5XD AA5AU K5DJ
 1997 CQ/RJ DX Contest - North American Plaque Winners!



Ron Hall, KP2N Dale Sinner, W6IWO



Ed Bixby, AK0X Drew White, K9CW



Bill Hempel, VK4LC Dale Sinner, W6IWO

1998 Dayton Hamvention



Mark Prather WB9HFK Mike Broga W9KVF Bo Lindfors, N2APH
Chief Navy MARRS



Jim Coleman KA6A Sid May ET3SID Debbie ET3AA



Ivan Bourn N8LCU Robert Naumann N5NJ Tyler Stewart K3MM



William Childers W5WW John Taylor K5MR Lawrence Hammel K5OT



Debbie with Buddy Ashley, WB4M, the Friday night speaker on the Palmira DXpedition.



Anna Marie MacKeand Crawford MacKeand WA3ZKZ

1998 Dayton Hamvention



Richard Moore
N8DM

Robert Moore
N2RM



Drew White
K9CW

Don Allen
W9CW



Winston
Kratz
KB0KK

Joseph
Duerbusch
K0BX

Bill
Hemple
VK4LC

Robert
Meyer
K9IO



Curt
Sanders
W0SN

Melvin
Whitten
K0PFX

Arthur
Cohen
XE1LL

Nellie,
de Lazard
XE1CT

Jody
Millsbaugh
VP5JM



George Person
W0MUW

Michael Elliot
KQ0B



Don Hill
AA5AU

Sharron Delatte

Randy Hollier
WX5L

Richard Stevens
N1RCT

1998 Dayton Hamvention



Robert Dow WB2CJL
 Jules Freundlich W2JGR
 Randy Hollier WX5L
 Authors of RTTY DX Notes (missing is Luciano Fusari, I5FLN)



Mike Broga W9KVF
 Ron Stailey K5DJ
 Thomas Strengle W4CRE
 Nick Smith W4GKM



Jay Graves W0DC
 Thomas Hendrix W9CK
 Jules Freundlich W2JGR
 Robert Dow WB2CJL



Jan Heise, K4QD, is presenting his DXpedition at Guantanamo Bay (GITMO).



Kenneth Fattman NA0Y
 Dwight Stotler N10F
 Harold Smith W0RI



Suzanne and Ray Ortgiesen KAIJGB, WF1B
 Mike Muzzy KO1X
 Les Raffel W9IM
 Eddie Schneider W6/GOAZT
 Ed Bixby AK0X
 Drew White K9CW
 Mark Prather WB9HFK

1998 Dayton Hamvention



Jerry Jankowitz
NO2T

Dorris Jankowitz
NW2B



Ivan Bourn
N8LCU

Dennis Faist
WB8TUU



Bill	Al	Vee Jay and	Dale	Jan	Gale	Bob
Henry	Hernandez	Fred Groce	Sinner	Heise	Heise	Valler
K9GWT	K3VN	K0FG	W6IWO	K4QD	KM4DR	VP8BFH



Peter
Henry
VE3PWH

Jean
Tallebois
VE3JPT

Ray
Hunter
VE3UR

Frederick
Codd
VE3FRD



Gene Wolford
KB7WIP

Michael Moore
N7RY



Marvin DeSantel
W7RPT

Philip Reid
W7OZE



World Wide RTTY WPX Contest '98

Ron Stailey, K5DJ
Ron-Stailey@easy.com

Hello Contesters/DXers: The results of the '98 W-W RTTY WPX Contest are now in print thanks to The New RTTY Journal and staff. This year's WPX contest has again topped all past years' with receipt of 419 logs being sent in. The level of activity grew in all parts of the world.

WPX'98 brought nine new world and nineteen new continent records. Records were set in all operating categories this year. If we were to count single band continents, there would be ten more records set this year. Conditions are definitely on the up-swing for better contesting.

By popular request this year, we had a new Multi/Two category. However, we did not have many entering this category. With as many questions as I received about the category I figured there would be a large number of stations operating in Multi/Two. However, Multi/Two was announced so late that none of the popular software producers had time to support this category. Next year, we will probably have a much larger number participating in Multi/Two.

Multi/Multi Category: This year, RM6A went to the winners circle with 1890 QSO's and set a new world record with a score of 2,674,056. Congratulations for a very nice score and setting a new world record! Next was OG5F with a nice score of 1,965,360; then K4ZAM at 662,540.

Multi/Two Category: NQ5C was the first winner of the new Multi/Two Category, leaving a target for teams to shoot at next year with 1978 QSO's and a final score of 2,734,408, taking the World Plaque. Next were the operators of LY8X who threw their hats into the new category ring, having 1245 QSO's, a score of 1,594,845, and winning the Europe Plaque.

Multi/Single Category: RK9CWA is no stranger to the winners circle taking the World Plaque by, logging 1017 QSO's and finishing with a score of 1,355,200. In 2nd place was KP2D who also set a new North American record with 1076 QSO's and scoring 1,158,930. In 3rd place was GW5NF also setting a new European record, scoring 1,151,104. KG4GC finished with a score of 1,094,635. W5WW set a new USA record, finishing with a score of 912,731. VE3FJB also made a good showing breaking his own Canadian record of last year,

with a score of 587,264. VK6GOM did some record breaking also, setting a new Oceania record with a score of 228,294.

Single/Operator High Power Category: K3MM once again takes the World Plaque. This puts two back to back plaques on his wall for W-W WPX RTTY contests. Tyler snagged 1389 QSO's and had a final score of 1,727,472. EMOI (Opr: UT2IZ) finished 2nd and set a new European record in SOH category, with 1269 QSOs and scoring 1,526,861. LT1F (Opr: LU5CW) took third and set a new South American record, with 1157 QSOs and a final score of 1,507,815. YL8M (Opr: YL2KL) finished fourth, scoring 1,372,560. Reappearing after a couple of years, HH2PK set a new North American Record with a final score of 1,350,791. Romeo, UN5PR, took the Asia Plaque and set a new Asian record scoring 1,338,290. N2DL took the USA Plaque scoring 878,592. 9X0A (Opr: RU3AH) took the Africa Plaque with a score of 691,152. John NH6XM takes the Oceania Plaque with a score of 149,448.

Single/Operator Low Power Category: VP5CK (Opr: N9CK) took the World Plaque and broke his own world record set last year. Steve also has back to back world record plaques on the wall with 1248 QSOs and a final score of 1,462,272. Congratulations, Steve, on a job well done. ON4AOI finished 2nd, taking the European Plaque and setting a new record at the same time, with a score of 1,114,540. EW35WB (Opr: EU1AZ) finished third with a score of 891,029. KA4RRU being tickled pink with his new baby girl, pushed his score up to win the North American Plaque and set a new USA record, scoring 763,542. Congratulations, Mike, on the new baby girl and the new USA record. ZX2A (Opr: PT2WB) took the South American Plaque and set a new record with a score of 760,431. N9NCX is starting to get serious about RTTY contesting and took the USA Plaque scoring 626,275. I'm sure we will be hearing more from Cliff in future contests. UA0AGI took the Asian Plaque scoring 352,228. VE6RAJ Raj, a very popular fellow on the bands and internet, took the Canadian Plaque with a score of 290,088. JA2BY won the Japanese Plaque scoring 157,833. ZL2AMI picked up the Oceania Plaque scoring 146,718. EA9JZ took the Africa Plaque with 426 QSOs, 221 Mults, scoring 349,843.

Single Band Category: Four out of five single band winners set new world records. **10m:** LU3CT becomes the first eligible station to win our 10m Plaque since W-W RTTY WPX Contest started in '95. LU3CT naturally set a new world and South American record, finishing with 270 QSOs and scoring 138,678. LU6AUM was next, scoring 133,380. **15m:** KP2/W0DC stepped into the winners circle and set a new world record with 1076 QSOs and scoring 1,177,428 (outstanding job John!). N1RCT is second setting a new USA record with a score of 389,283. US90 finished third also setting a new European record scoring 280,053. UA4LL scored 276,834. **20m:** I2EOW becomes the first to win world record plaques back to back, getting 722 QSOs, scoring 681,471 (great job Erminio!). 9A5W finished second scoring 663,572. VA3MM set a new Canadian record scoring 585,736. **40m:** EA8PP set a new world record with 607 QSO's, scoring 1,139,670 (super job Juan!). I2UIY set a new European record scoring 590,304. Barry W2UP finished third also setting a new North American record finishing with 564,018. **80m:** EO6F (Opr: UX0FF) took the 80m plaque with 259 QSOs and a score of 168,084. S51AY finished second scoring 164,916. YU1BO was next, scoring 50,880.

Rookie of the year Plaque: Starting this year, a Rookie-of-the-year Plaque will be given to some one new to RTTY contesting. This plaque can be awarded to any S/Opr station high or low power. This year's winner is: Tariq Habjua, AP2TJ. Tariq is no stranger to digital communications but is just getting started in serious RTTY contesting. He finished with 402 QSOs and a score of 235,886. (Tariq, we hope to work you in many contests to come.)

Soap Box: ND5S: "No QSOs from OC, and there were only a few from Asia." N7VOG: "Had a great run to Europe on Saturday." WY2E: "Had good Europe but little elsewhere." W7TI: "Lots of 15m activity." K16DY/0: "I used a butternut vertical, caught myself muttering 'Boy I need a beam'." VE2JY: "Had SWR problems." W2JGR/0: "Conditions for the most part were good in Midwest." AE5P: "My first real RTTY test." RM6A: "Lots of fun as always." LT1F: "it was nice breaking the world record." KA4RRU: "Had a great time." WN1E: "A most enjoyable contest." VE3FJB: "It seems most ops are now familiar with Autotune OFF." SM5FUG: "Great activity on all bands except 10m." F/OK1EE: "Interesting contest, had a lot of fun." W2UP: "I was able to work Europe 3 hours before sunset." W8PT: Propagation not too bad, not much on 10m." K0BX: Highlight was working 9M0C on RTTY." WB00: "My 2nd RTTY contest, had lot of fun." N5ZM: "Had problems with CW ops on 40m." VE3WQ: "Had a lots of fun and was pleased with the phased verticals on 80m." VA3MM: "Highlight was to have HZ0-XU-BV-9V-DU-A4 call me." K3MM: Had good JA runs on 15m." K8SIA: "Enjoyed being called by DX on 40m." NH6XM: "Highpoint was getting 9X as a new one." AA5AU: "Most worked prefix 9M0, only one qso."

1998 World-Wide WPX Contest Results

On behalf of the WPX Contest Advisory Committee, our sponsor HAL Communications Corp., the numerous plaque donors, K7WMM and last but not least, all entrants, a BIG thank you for making the 1998 RTTY WPX a huge success.
A total of 433 logs, including 3 SWL and 21 checklogs were received. 95 % of the previous records were broken, some by a very large margin. Approximately 350 logs were sent via e-mail.
Congratulations to all plaque and certificate winners.
See you all next year, 73
Eddie, W6/GOAZT

Multi operator multi TX.

Callsign	Q'S	Pts	WPX	Score	Record	Plq/Cer
RM6A	1890	5788	462	2674056	Wrlld+EU	WORLD
OG5F	1405	4560	431	1965360		EU
K4ZAM	817	2110	314	662540		Cer

Operators:
 RM6A = RN6BN RA6CM RA6CO RA6AX RX6BA RA6VY RW6YY
 RA6TDX RV6ASU
 OG5F = OH1KAG OH3FM OH3LKH OH3LQK OH3MFP OH3MMH
 OH3MYD OH3PP
 K4ZAM = K4ZAM

Multi operator two tx.

Callsign	Q's	Pts	WPX	Score	Record	Plq/Cer
NQ5C	1978	4918	557	2734408		WORLD
LY8X	1245	3843	415	1594845		EU

Operators:
 NQ5C = K5DJ AA5AU WS7I
 LY8X = LY1FF LY2BIL LY2BKFL LY3JY LY3NFW

Multi operator single tx.

Callsign	Q's	Pts	WPX	Score	Record	Plq/Cer
RK9CWA	1017	3872	350	1355200	Wrlld+AS	WORLD
KP2D	1076	2934	395	1158930	NA	NA
GW5NF	989	3128	368	1151104	EU	EU
KG4GC	1114	2999	365	1094635		US
W5WW	1006	2447	373	912731		Cer
RU6LWZ		2735	327	894345		Cer
AF4Z	925	2224	333	740592		Cer
VE3FJB	671	1984	296	587264	VE	VE
OH3RM	680	1944	302	587088		Cer
W4CV	634	1548	285	441180		Cer
WIOWA	630	1413	296	418248		Cer
SN11	465	1657	228	377796		Cer
I4MKN	392	1206	232	279792		Cer
KJ7TH	616	1121	240	269040		Cer
VK6GOM	364	1153	198	228294	OC	OC
N7VGO	296	510	172	87720		Cer
WN1E	210	550	128	70400		Cer

Operators:
 RK9CWA = UA9CA RW9CF
 KP2D = KP2N NP2E NP2W NP2DZ W5TTY
 GW5NF = GW5NF GW4JBQ
 W5WW = W5WW N5NJ K5MR N5ZT
 VE3FJB = VE3FJB VA3CW VE3VSM VE3JVM VE3PKA VE3NDA
 VK6GOM = VK6GOM VK6HAJ
 KG4GC = W4WX WV3N KG4CQ KG4WD K4QD
 RU6LWZ = UT6IZ RX6LPE RV6LOA RV6LOB UA6LO RV6AJJ
 AF4Z = AF4Z KC4HW K4PX K4AW W74I KT4DI KY4FY KE4MMI
 OH3RM = OH3RM OH1HS
 W4CV = WD4CQE WB8EYJ W4GKM
 WIOWA = W0OV K0KD W0ETC N0NI N0AC
 SN11 = SP1MHV SP1-0304-KO SP0-226-KO
 I4MKN = I4MKN + ?
 KJ7TH = KJ7TH W7II
 N7VGO = N7VGO KCT7AV N7CEO
 WN1E = WN1E AA1MM

Single operator HIGH power.

Callsign	Q's	Pts	WPX	Score	Record	Plq/Cer
K3MM	1389	4234	408	1727472	WORLD	WORLD
EM01	1269	3697	413	1526861	EU	EU
OP:UTZIZ						
LT1F	1157	3723	405	1507815	SA	SA
OP:LU5CW						
YL8M	1122	3440	399	1372560		Cer
OP:YL2KL						
HH2PK	1076	3583	377	1350791	NA	NA
UN5PR	964	3617	370	1338290	AS	AS
CT98AOZ	1065	3327	381	1267587		Cer
IK2NCJ/4	957	3335	365	1217275		Cer
UX0Z	1088	3165	381	1205865		Cer
OP:UTOZZ						
5B4ADA	1067	3086	363	1107874		Cer
op:CT3BX						
DJ6QT	923	2761	373	1029853		Cer
OH1AF	890	2836	358	1015288		Cer
OP:OH1MDR						
VE3WQ	862	3024	334	1013040	VE	VE
HA2SX	782	2519	351	884169		Cer
N2DL	880	2496	352	878592	US	US
OD5NJ	744	2662	292	777304		Cer
I1COB	742	2394	321	768474		Cer
NO2T	861	2215	331	733165		Cer
K5ZD	737	2341	305	714005		Cer
9A8A	695	2149	323	694127		Cer
9X0A	714	2244	308	691152	AF	AF
OP:RU3AH						
S56A	691	2216	307	680312		Cer
YU7YG	635	2094	295	617730		Cer
CX7BF	661	1942	312	605904	SA	SA
WW7OR	812	1782	324	573368		Cer
OP:W7GG						
OK1FJD	610	2017	277	558709		Cer
W7TI	826	1597	335	534995		Cer

DL4MCF	591	1928	275	530200		
OH2LU	603	1791	278	497898		
K7WMM	765	1564	314	491096		
KK5OQ	723	1659	294	487736		Cer
HA3LI	523	1695	282	477990		
KE3ZR	635	1631	286	466466		Cer
OH2GJ	552	1768	254	449072		
SM5FUG	520	1515	289	437835		Cer
TM0P	517	1566	272	425952		Cer
OP:F6AUS						
SP7NMW	477	1667	229	381743		Cer
DL7VOG	468	1517	244	370148		
WB5B	634	1386	257	362020		Cer
SM3KOR	399	1292	246	317832		
W7NN	504	1155	243	280665		
ES7FQ	451	1121	243	272403		Cer
ND5S	439	1142	221	252382		
VE6JO	511	1205	209	251845		Cer
UT9NA	293	1485	165	245025		
OZ8RO	346	1125	216	243000		Cer
S55A	359	1123	205	230215		
VE7AGJ	433	1165	196	228340		Cer
IK0HBN	285	1103	185	204055		
OK2BG	321	1056	190	200640		
W8PT	349	878	197	172966		Cer
LZ0A	299	1047	165	172755		Cer
OP: LZ2UU						
NA4M	427	851	199	169349		Cer
NH6XM	306	958	156	149448		OC
KI6DY/0	449	870	170	147900		
W2JGR/0	411	789	177	139653		
W8JGU	294	731	181	132311		
W9OL	271	668	178	118904		
DJ3NXE	254	746	158	117868		Cer
K3KO	252	690	170	117300		
WB0O	303	582	192	111744		
SP5GRM	249	638	167	106546		
KCTV	267	511	154	78694		
K0RC	211	512	123	62976		
OK1MSP	159	545	112	61040		
OK2BJT	174	483	119	57477		
K0BX	177	395	126	49770		
RA6AR	150	407	119	48433		
N1AU	166	429	110	47190		Cer
K7EX	163	349	123	42927		
KC1F	151	398	102	40596		
UA0FDX	163	488	77	37576		Cer
K6HGF	239	319	114	36366		Cer
DL1SWB	153	312	110	34320		
K9OSH	151	338	99	33462		
W7WHY	141	263	94	24722		
SP7IIT	102	288	82	23616		
N0AEV	117	232	87	20184		
WDOE	110	279	72	20088		
WA5IZE	128	233	82	19106		
SM5AAY	96	225	78	17550		
K8VT	109	230	74	17020		
JA2AXB	73	199	60	11940		
W6KNB	78	123	65	7995		
SM5EIT	41	140	35	4900		
OZ6EI	38	93	38	3534		

W4LC	360	799	209	166991		
OK2PAD	278	920	179	164680		Cer
VE7CFD	406	953	169	161057		Cer
OH3NGB	321	981	164	160884		Cer
DL5ZB	282	927	173	160371		Cer
JA2BY	296	923	171	157633	JA	JA Plaque
E4C1	311	895	172	153940		Cer
DK3WW	287	845	181	152945		Cer
N8YYS	308	814	182	148148		Cer
ZL2AMI	257	858	171	146718		Cer
OK2VWW	260	921	159	146439		Cer
K8UC	325	880	166	146080		
SP7A	226	742	193	143206		
N2HIG	335	811	174	141114		
VE2AXO	277	866	161	139426		Cer
DL5PW	244	829	158	130982		
VE7CPN	341	767	168	128856		
/W4						
E8AKG	226	845	152	128440		
IV3FSG	229	797	161	128317		
WA8RPK	351	759	169	128271		
I2KFW	243	801	156	124956		Cer
W3KB	276	689	169	116441		Cer
KA1O	281	671	169	113399		
S57X	232	742	149	110558		Cer
JA1WSK	235	653	167	109051		Cer
W5DG	358	676	159	107484		Cer
EA2BNU	217	693	150	103950		Cer
JJ3VPY	227	678	151	102378		Cer
IS0YTA	193	575	177	101775		Cer
HB9AWS	211	766	132	101112		Cer
K8AB	285	636	158	100488		
E45BS	252	621	157	97497		
WA1EHK	247	619	157	97183		
SM7GXR	199	658	146	96068		
G3GOT	208	739	130	95070		Cer
IK1DFH	272	580	161	93380		
G5LP	199	639	146	93294		
SP9LKS	256	838	111	93018		Cer
W2YK	215	608	149	90592		
EA2ATV	225	596	151	89996		
JA1SJV	207	616	146	89936		
OK1AXB	202	671	131	87230		Cer
SP2FAV	205	681	128	87168		
K7ON	306	566	151	85466		Cer
JL6HKJ	211	596	143	85228		Cer
N7UJJ	304	560	151	84560		
F6IFY	203	629	134			

I4HRH	110	309	72	22248			
KE1AU	101	266	77	20482			
IK4MHB	94	243	79	19197			
SM6FUD	83	270	71	19170			
DL4RCK	97	235	80	18800			
RU6BV	112	233	80	18640			
KA5LGP	134	242	76	18468			
EA4BQG	137	399	46	18354			
W7XN	116	213	86	18318			
W9ISC	124	238	72	17136			
W0TMMW	120	227	74	16798			
SL4ZAE	77	269	59	15871			
IT9JOF	84	225	68	15300			
K4BWU	101	199	76	15124			
IK2NCF	84	238	60	14280			
N0TVZ	100	204	69	14076			
SP3JHR	152	327	42	13734			
W4AUI	99	185	73	13505			
KK7A	111	177	73	12921			
IV3KSE	72	226	56	12656			
VK5GN	68	203	59	11977			
SM7ATL	64	214	55	11770			
IT9SMU	71	181	64	11584			
DL5JWL	67	191	58	11078			
JH7AJD/1	63	208	53	11024			
LU3EKG	74	177	61	10797			
IK3QAR	67	221	58	10788			
IK7RVY	66	175	60	10500			
9A3SM	66	169	59	9971			
K1KU	73	165	55	9075			
SP4KSY	90	200	44	8800			
OP:SP4HHI							
N7MNY	78	100	78	7800			
W3CP	57	147	51	7497			
JA7KM	50	150	48	7200			
SP3RBT	75	214	32	6848			
LZ4BU	43	147	41	6027			
VE3EVV	48	149	39	5811			
UA6LP	46	138	41	5658			
ZL2AKM	46	134	41	5494			
SP8FHJ	41	136	38	5168			
EA7BDL	46	132	38	5016			
KC2SZ	49	111	43	4773			
DK5VD	44	107	39	4173			
JJOCMH/1	34	111	30	3330			
SP3FAR	~	83	28	2324			
SV2BBJ	22	90	21	1890			
VE3DQL	25	65	22	1430			
EA2AVM	16	13	56	728			
KL7NLW4	12	19	11	209			

Single band 10 meters.

Callsign	Q's	Pts	WPX	Score	Record	Plq/Cer
LU3CT	270	797	174	138678	World+SA	Plq
LU6AUM	257	741	180	133380		Cer
AA9RR	8	18	7	126		

Single band 15 meters.

Callsign	Q's	Pts	WPX	Score	Record	Plq/Cer
KP2WDC	1076	2751	428	1177428	Wrd & NA	Plq
N1RCT	548	1347	289	389283	USA	Cer
US9Q	458	1073	261	280053	EU	Cer
UA4LL	470	1073	258	276834		Cer
EA7FR	330	793	225	178425		Cer
ZP6CC	303	886	184	163024	SA	Cer
IK2BUF	279	719	198	142362		Cer
IT9STG	233	542	168	91056		Cer
W6JA3EVZ	249	426	173	73698		Cer
SK4RY	180	450	135	60750		Cer
HP1AC	160	491	118	57938		Cer
4F3GD	161	477	118	56286	AS	Cer
S52SK	160	425	126	53550		Cer
YO3JF	159	402	122	51118		Cer
UA3AFS	173	395	129	50955		Cer
IK2YQX	104	267	88	23496		Cer
YV4GLD	90	258	76	19608		Cer
OK2EQ	85	228	70	15960		Cer
IK1GPG	77	215	69	14835		Cer
OM3PR	63	172	57	9804		Cer
RW0LZ	58	158	54	8532		Cer
LZ1CF	57	129	44	5676		Cer
YU7AE	45	124	39	4836		Cer
W9IXX	45	95	39	3705		Cer
IK4NYR	39	70	38	2660		Cer
SP4Z	23	63	22	1386		Cer
UT1HZM	21	51	21	1071		Cer
EA1AAA	11	30	11	330		Cer

Single band 20 meters.

Callsign	Q's	PTS	WPX	Score	Record	Plq/Cer
I2EOW	722	1827	373	681471	Wrd+EU	Plq
9A5W	720	1823	364	663572		Cer
VA3MM	652	1688	347	585736	VE	Cer
OH3MMF	653	1562	341	532642		Cer
S53MJ	592	1497	335	501495		Cer
CS98NH	629	1479	313	462927		Cer
OP:CT4NH						
VE6JY	568	1325	316	418700		Cer
JG4CLV	444	1170	296	348660	AS	Cer
YT4I	432	1077	279	300483		Cer
OP:YZTED						
MX0ADU	439	1026	270	277020		Cer
OP:G0LII						
SP2FOV	420	1061	245	259945		Cer
WQ6	430	750	245	183715		Cer
/GOAZT						
KA3JFI	308	654	207	135378		Cer
EA2IA	263	651	178	115878		Cer
IS0QDV	269	603	175	105525		Cer
DU1SAN	185	540	141	76140		Cer

JW0M	233	473	147	69531		Cer
LY2CG	166	364	128	46592		Cer
EA4CT	161	357	124	44268		Cer
IK2DPP	153	353	122	43066		Cer
CT4DX	143	332	121	40172		Cer
YL3FW	134	289	97	28033		Cer
YL2KF	121	269	100	26900		Cer
SP1RKB	103	235	87	20445		Cer
OZ1IRJ	93	230	85	19550		Cer
DJ6TK	93	210	84	17640		Cer
CT1BNW	87	211	82	17302		Cer
IZ3BQT	92	204	76	15504		Cer
JH1VES	75	204	68	13872		Cer
JH7IMX	76	210	65	13650		Cer
SM0TGG	79	163	71	11573		Cer
SP9RPW	50	144	48	6912		Cer
YV4DX	37	111	33	3663		Cer
YU7NW	55	59	43	2537		Cer
EA8AKQ	27	81	26	2106	AF	Cer
YO2BEH	20	88	20	1760		Cer
N3TG	38	54	31	1674		Cer
3Z6AEF	30	45	17	765		Cer
JN1MSO	2	4	2	100		Cer

**RTTY CONTEST SCHEDULE
SUMMER 1998**

06/13 0000 to ANARTS WW RTTY Contest
06/14 2400Z Australian National Amateur
Teleprinter Society

06/27 1800 to ARRL Field Day
06/28 2100 American Radio Relay League

07/18 1800 to North American Rtty QSO
07/19 0600Z Party (NAQP) by National
Contest Journal (NCJ)

07/25 0000 to Russian RTTY WW Contest by
07/26 2400Z Russian Center Radio Club
(RCRC)

8/15 0000 to SARTG WW RTTY Contest
8/15 0800Z Scandinavian Amateur Radio
Teleprinter Society

8/15 1600 to
8/15 2400Z
8/16 0800 to
8/16 1600Z

8/29 1200 to SCC RTTY Championship by
8/30 1200Z Slovenia Contest Club 1998
and Svet Elektronike Journal

9/26 0000 to CQ / RTTY Journal
9/27 2400Z World-Wide RTTY DX Contest
CQ Magazine and
The New RTTY Journal

Rules and additional information may be
found at the following Internet sources:

LA9HW RTTY Page:
<http://home.sn.no/~janalme/RTTY.html>

Jim's Gazette:
<http://www.n2hos.com/digital>

N1RCT Web Site:
<http://www.megalink.net/~n1nrc>

SM3CER Contest Service:
<http://www.sk3bg.se/contest>

ARRL:
<http://www.arrl.org>

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 3 weeks for
processing and delivery.

Single band 40 meters.

Callsign	Q's	Pts	WPX	Score	Record	Plq/Cer
EA8PP	607	3618	315	1139670	Wrd+AF	Plq
I2UIY	439	2064	286	590304	EU	Cer
W2UP	500	2066	273	564018	NA	Cer
9A5Y	427	2024	251	508024		Cer
OP:9A3NM						
OY3JE	393	1614	200	322800		Cer
IK7YUA	301	1248	192	239616		Cer
F/OK1EE	191	860	144	123840		Cer
K4WW	252	720	156	112320		Cer
IK2HKT	166	750	136	102000		Cer
SM4RGD	185	760	132	100320		Cer
WA4JQS	181	610	140	85400		Cer
UT1ZZ	155	746	110	82060		Cer
JF3PNQ	128	664	100	66400	JA	Cer
JE2UFF	115	614	98	60172		Cer
LZ2MP	143	600	91	54600		Cer
VE4AIY	127	472	83	39176		Cer
ZP5XF	77	446	67	29882		Cer
W3SE	123	312	86	26832		Cer
OH1SM	41	166	41	6806		Cer
JA2NNF	40	192	34	6528		Cer
OH2OM	9	34	9	306		Cer

Single bands 80 meters.

Callsign	Q's	Pts	WPX	Score	Plq/Cer
EO6F	259	1044	161	168084	World
OP:UX0FF					
S51AY	257	1018	162	164916	Cer
YU1BO	133	530	96	50880	Cer
OK2PHI	124	496	92	45632	Cer
UY1HY	131	312	100	31200	Cer
IK3SSJ	72	286	61	16446	Cer
SP4BOS	65	262	57	14934	Cer

S.W.L.

Callsign	Q's	Pts	WPX	Score	Plq/Cer
ONL383	739	2505	306	766530	Cer
I2-0410/MI	166	492	122	60024	Cer
OH3-725	12	37	10	370	

Check logs received from the following stations:
YU7AE(20/40/80), OK2BMC, F5TEU, EA5FKI, IK7YUC,
4U1ITU, VE8NC DL3VCO, DJ3IW, NX5M, GM3UTQ,
K3SWZ, VK3EBP, K17RW/0, YO3FRI, DL9GGA, EA3RH,
SP5DIQ, RZ9WZ, VE3UR, SP1MHV, UA2AO, SP3MY

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1997 CQ/RJ World-Wide RTTY DX CONTEST RESULTS

Call	Class	Country	Score	K2YG	SOL	USA	376,050	JL6HKJ	SOL	Japan	137,970	VE3FJB	MOH	Canada	66,424	9U5CW	SOL	Burundi	24,208
W3LPL	MOM	USA	3,946,822	IT9STX	14	SICILY	373,680	W0HWK	SOH	USA	137,562	OK1JN	SOL	Czech Rep	66,340	SP4BOS	SOL	Poland	23,760
W5WUMU	MOM	USA	3,941,970	WB8YTZ	MOH	USA	370,414	W7NWN	SOH	USA	136,718	DL8SDC	SOL	Germany	65,036	I4HRH	SOL	Italy	23,474
P40TT	SOL	Aruba	3,287,160	K1AUO	SOH	USA	362,085	N1AOU	SOA	USA	135,235	KZSD	SOH	USA	64,883	W3GG	14	USA	23,040
(OP-WF1B)				K7ON	SOA	USA	356,304	E11FAK	SOH	Spain	134,992	J8XT	SOL	Germany	64,779	IK7RYV	SOL	Italy	22,050
RW6AWT	MOM	Eur Russia	2,654,579	JE2UFF	SOL	Japan	337,053	DL1JPL	SOH	Germany	134,820	AC5AA	SOH	USA	64,416	SM3AFR	14	Sweden	20,698
RK9CWA	MOM	Asia Russia	2,561,706	W6GOAZT	SOH	USA	328,391	UA4LCO	21	E Russia	134,431	WK0F	SOL	USA	63,375	JR1BAS	14	Japan	20,046
IQ4A	MOH	Italy	2,469,450	Y03JF	SOL	Romania	325,666	L3ZY	MOH	USA	134,121	W6JOW	SOL	USA	63,145	VE2KAD	SOL	Canada	19,928
QX8ABF	SOH	Chile	2,071,886	NH6XM	SOH	Hawaii	324,324	H4SBSW	SOA	Hungary	133,678	IK29PS	SOH	ITALY	63,002	W43GPP	SOL	USA	19,700
OT7E	MOS	Belgium	2,002,924	N6GG	SOH	USA	320,760	PA3EYV	SOA	Netherlands	133,136	OM5XJ	21	Slovakia	62,700	NV3C	SOL	USA	19,570
K1NG	SOA	USA	1,985,276	4Z6XZ	SOH	Israel	314,944	IE1VVV	SOH	Mexico	130,625	EA7FTX	21	Spain	60,996	WA0TDQ	SOL	USA	19,549
(OP-K11G)				I2HWI	SOL	Italy	312,220	YW1A	7	Venezuela	129,315	E44AFP	SOL	Spain	59,740	EA1AAA	SOH	Spain	19,296
S57NW	MOS	Slovenia	1,923,404	W1RY	SOH	USA	313,788	M9ZTO	SOL	Malaysia	128,871	W9ISC	SOL	USA	58,986	K6XV	SOH	USA	18,942
UT01	SOH	Ukraine	1,916,291	GB5RY	SOL	England	309,673	FK8VHM	14	New Caledonia	128,225	W9LY	SOL	USA	58,855	SM5EIT	SOH	Sweden	18,879
(OP-UT2I)				(OP-G5LP)				DL8VAM	SOL	Germany	127,032	A61RG	SOL	USA	58,824	SM7ATL	SOL	Sweden	18,779
OT7T	SOA	Belgium	1,887,187	VE6RAJ	SOL	Canada	306,033	N8JF	SOH	USA	126,420	AA4NC	14	USA	58,740	K7MK	SOL	USA	18,704
(OP-ON4MA)				L8BEKC	21	Argentina	305,171	W8PT	SOH	USA	126,408	9A8A	SOH	Croatia	58,656	JO1BVI	14	Japan	18,602
KG4GC	MOH	GTMO Bay	1,870,120	KJ7TH	SOL	USA	303,761	N3IXR	SOL	USA	125,846	W6CN	SOH	USA	58,482	T94KM	SOL	Bosnia	18,423
RW2F	MOH	Kaliningrad	1,830,794	YB5QZ	SOH	Indonesia	298,312	ZP6CZ	21	Paraguay	125,247	WN1E	MOL	USA	58,384	IK3SSJ	3.5	Italy	18,036
KP2D	MOL	St Thomas	1,638,958	W6B5B	SOH	USA	295,800	AC4PY	SOL	USA	124,950	WB3WPM	SOL	USA	58,080	D1J0J	SOL	Germany	17,954
W5SSL	SOH	Saint Martin	1,620,957	W5G5B	SOH	USA	295,800	OK2BXW	SOH	Czech Rep	123,830	DJ3CF	SOL	Germany	57,900	9A10J	21	Lithuania	17,822
(OP-EA3NY)				N6GG	SOH	USA	320,760	EA53BC	SOL	Spain	123,830	OM14	14	Belarus	57,422	9A80MM	SOL	USA	17,820
DK3GI	SOA	Germany	1,554,237	W1TE	SOL	USA	292,800	YU7AE	SOL	Yugoslavia	122,040	SP4KA	SOL	Poland	56,144	OK2BJT	SOL	Czech Rep	16,517
EA8PP	SOH	Canary Is	1,551,718	W4PKP	SOA	USA	288,981	FG8HC	14	New Caledonia	121,716	SP2UUU	SOA	Poland	55,845	EA1AHA	SOL	Spain	16,356
TM7XX	SOH	France	1,530,224	W5QOZ	SOL	Indonesia	283,092	KF8TM	SOH	USA	121,260	EA4CT	14	Spain	54,736	N7UJJ	SOL	USA	16,168
(OP-F5MUX)				GW4KHQ	SOL	Wales	281,388	EA3RH	14	Spain	120,651	LW9EPB	28	Argentina	52,762	SP2EIW	SOL	Poland	16,000
HH2PK	SOH	Haiti	1,513,152	VE8RI	MOH	Canada	276,960	PA3AQL	MOL	Netherlands	119,730	DL3ARK	SOL	Germany	52,220	JR3PZVW1	SOL	Japan	15,604
PY2XB	SOA	Brazil	1,512,756	CT4NH	14	Portugal	274,116	KC1YF	SOL	USA	118,448	N6VH	SOH	USA	51,660	SP4MPH	SOL	Poland	15,405
14M30M	MOS	Netherlands	1,487,434	Y03FRI	SOL	Romania	271,872	VE3BUC	SOL	Canada	118,389	KOMP	SOH	USA	51,269	YB2BRW	21	Indonesia	15,351
YL8M	MOL	Latvia	1,349,530	K8UC	SOH	USA	271,492	W5YM	MOS	USA	117,626	JA2MOG	14	Japan	51,030	ON6CR	SOL	Belgium	14,800
VH9ANAC	MOS	Vatican	1,279,032	N9THC	SOL	USA	266,952	PA3GQF	SOL	Netherlands	117,410	IT9ORA	SOL	Italy	51,013	DL4VAD	SOL	Germany	14,350
K1AM	SOH	USA	1,212,534	W9T5	SOH	USA	265,213	PA0VHA	SOA	Netherlands	116,280	IK7YUA	7.0	Italy	50,666	L24BU	SOL	Bulgaria	14,318
K4PX	SOH	USA	1,175,940	W8EB	SOA	USA	264,914	7A4QOK	14	Japan	114,540	EA1BAF	SOL	Spain	50,196	E11FFC	SOL	Spain	14,022
VD3MM	SOH	Canada	1,157,508	K4BU	SOH	USA	264,330	(OP-JR2BNF)				NO4EV	SOH	USA	49,742	YU7NW	21	Yugoslavia	14,000
UA6LO	SOH	E Russia	1,147,512	W7NR	14	Yugoslavia	262,602	SP4KLS	SOL	Poland	114,380	K0BJ	SOH	USA	48,773	VE55F	SOH	Canada	13,940
S57M	MOH	Slovenia	1,136,960	SP3PLD	MOH	Poland	253,764	DL1ARJ	SOL	Germany	113,454	KB2OPQ	SOL	USA	48,300	OK2PIP	14	Czech Rep	13,650
S59AA	SOH	Slovenia	1,135,640	UA0BKBK0	SOA	A Russia	249,184	N5PU	SOL	USA	113,288	DL15VBV	7	Germany	48,165	DJ9GR	14	Germany	13,130
DF3CA	SOA	Germany	1,134,600	K15M	SOH	USA	242,858	IK2BJU	21	ITALY	112,560	JK1ATT	SOA	Japan	40,078	K2FR	14	USA	12,834
Z30M	MOL	Macedonia	1,122,501	HCIJQ	14	Ecuador	242,844	WA4JOS	14	USA	112,038	N7VGO	SOL	USA	47,874	SM4RLD	SOL	Sweden	12,728
PS2A	SOH	Brazil	1,112,135	LZ2VF	SOL	Bulgaria	237,820	KD5QJ	14	USA	109,725	KL7WP	SOL	Alaska	47,310	UY1BU	3.5	Yugoslavia	12,549
UN5PR	SOH	Kazakhstan	1,104,444	HB9HK	SOH	Switzerland	235,466	K7DSR	SOH	USA	108,808	RA6AR	14	E Russia	46,698	JA0UMB	21	Japan	12,546
N8PR	SO	USA	1,086,422	9A5W	21	Croatia	232,965	W4LC	14	USA	108,794	WBVLK	SOL	USA	46,060	VK5GN	SOL	Australia	12,540
DJ9QT	SO	GERMANY	1,073,166	HA4YF	SOL	Hungary	230,824	K6HGF	SOH	USA	107,736	K1JN	SOL	USA	46,001	OZ1JR	21	Denmark	12,420
K9JY	MOH	USA	1,029,366	SP1MHV	SOH	Poland	226,260	VE7QO	SOL	Canada	107,300	DF1GW	SOH	Germany	45,500	G0L1	21	England	12,240
N9NXC	MOH	USA	1,005,039	W4XQ	SOH	USA	225,990	N8YYS	SOL	USA	107,215	S57KM	SOL	Slovenia	45,399	NO4TO	21	Belgium	11,986
V5JM	SOL	Turks-Caicos	993,018	VE7BTO	SOH	Canada	222,200	ZL3JOJ	SOL	New Zealand	107,146	JR1KSK	SOL	Japan	45,262	W7BWJ	SOL	USA	11,919
OK1DXMM	SOH	M/M	981,407	SP1MIV	SOL	Spain	221,594	FM7J	SOL	USA	106,400	SP4CHY	7.0	Poland	44,814	EA8AG	SOL	Canary Is	11,524
N8NR	MOH	USA	924,648	EF7FQ	14	Estonia	217,600	NMGJ	SOL	USA	105,400	W4WS	SOL	USA	44,795	HB9NL	21	Switzerland	11,224
DL0KG	MOH	Germany	921,264	W7XCFD	SOL	Canada	216,132	G3YJQ	SOH	England	105,244	(OP-N4VHK)				DL2AL	14	Germany	11,275
O45NJ	SOL	Beruit	899,708	KP3A	SOL	Puerto Rico	211,878	WJMD	SOH	USA	103,943	DK7OM	SOL	Germany	44,744	7L1MFS	14	Japan	11,220
K4ZAM	SOA	USA	888,516	DL7NMM	SOH	Poland	210,308	N2FF	SOA	USA	103,601	UA9AYB	21	A Russia	44,440	OK2SG	21	Finland	11,180
KA4RRU	SOL	USA	847,616	DL5ZB	SOH	USA	209,529	OM3RJB	MOH	Czech Rep	102,486	HB9AWS	SOL	Switzerland	44,196	PA0EHF	SOL	Netherlands	11,169
JS3CTQ	SOH	JAPAN	823,989	W9IL	SOL	USA	208,359	SP4TAX	SOL	Poland	102,026	L6U6M	28	Argentina	44,073	UY1HY	3.5	Ukraine	11,163
EA9JZ	SOH	Melilla	817,656	VE6FR	SOL	Canada	207,932	KC4SAW	SOL	USA	101,600	SM5LNS	SOL	Sweden	43,940	Y02IS	SOL	Romania	11,160
I1COB	SOH	Italy	799,690	K0XB	SOA	USA	207,432	DL2LMI	SOH	New Zealand	101,426	OK2PCL	14	Czech Rep	43,780	DL9QJ	SOL	Germany	10,804
W2X7M	MOS	USA	798,660	W4CV	MOL	USA	202,460	K8AB	SOL	USA	101,304	KB2POP	SOL	USA	43,776	JA1EUL	14	Japan	10,293
DL2NBL	MOL	Gilbrata	798,000	KACZYN	SOL	USA	202,288	RA1AW	14	E Russia	99,796	JA7KM	SOL	Japan	43,419	U00FDX	14	A Russia	10,152
KE1FO	MOL	USA	761,596	OZ5M	SOL	Denmark	201,348	9A9J	3.5	Croatia	99,037	W7KS	SOL	USA	42,456	KA3DSX	SOL	USA	10,148
6F0AO	SOH	France	760,562	FR3NHW	SOH	Switzerland	201,128	VA3NN	SOH	Canada	98,528	K9FH	SOL	Italy	42,370	EA5JBC	SOL	Germany	10,064
W7GG	SOH	USA	748,720	HB9HK	SOH	Switzerland	200,872	PA3GKT	SOL	Netherlands	98,910	DL9MBZ	14	Germany	41,448	KE2FX	SOL	USA	9,963
SMSFUG	SOH	Sweden	729,864	W2UD	SOH	USA	199,290	KA10	SOL	USA	98,903	K4WW	7	USA	40,964	WB4UDB	SOA	USA	9,135
JA5EXW	SOH	Japan	718,146	EA4CI	SOL	Spain	194,360	SP2FAV	SOL	Poland	94,875	JH4ADK	SOH	Japan	40,480	RV3DND	7.0	E Russia	9,064
GW5NF	SOA	Wales	711,660	KE3ZZ	SOH	USA	194,023	OH5FT	SOL	Finland	94,608	SP1RKB	SOL	Poland	39,856	K3RON	SOL	USA	9,048
VE3WQ	SOH	Canada	687,645	CESFG	14	Chile	193,664	DU1SAN	14	Philippines	94,368	KI0BF	SOL	USA	38,690	SP3XR	14	Poland	8,736
WB2HMF	SOH	USA	678																

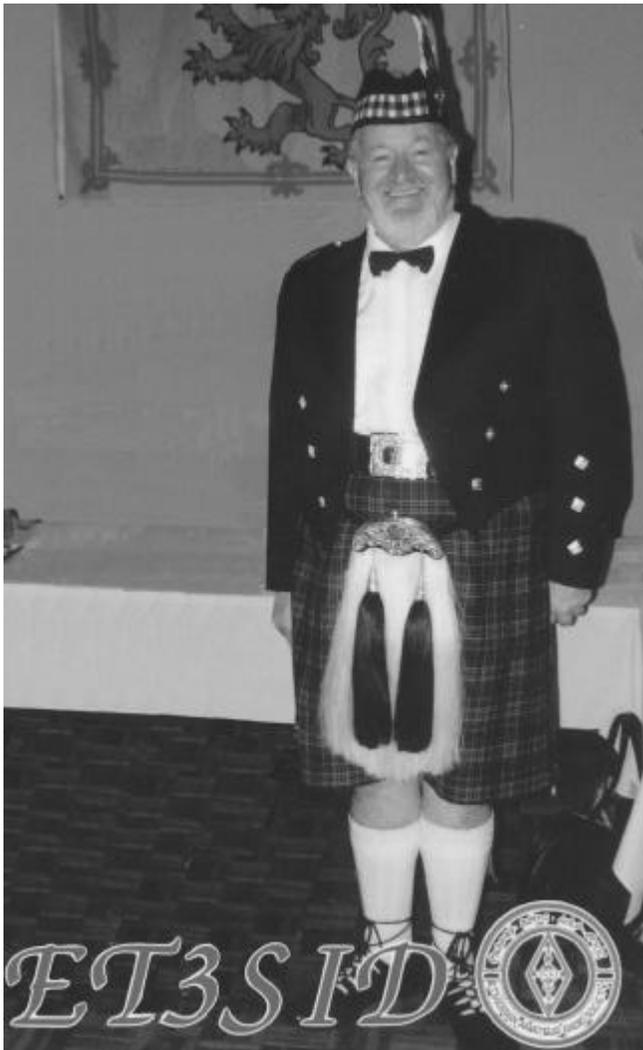
1998 Dayton Hamvention



Ray Ortgiesen, WF1B/P4OTT Ron Stailey, K5DJ
 Ray set the new world record and is the
 winner of the 1997 CQ/RJ WW SOL Plaque!



Mike Muzzy Suzanne and Ray Ortgiesen Eddie Schneider
 K1OX KA1JGB, WF1B W6/G0AZT



ET3SID
 Sid May, ET3SID
 (aka: 9J2ED, VP2KH, VP2MKH, A4XGB, 5N0SID, B2HL, G4CTQ/ST2)
 "Have kilt, will travel!"



Vee Jay and Fred Groce, K0FG, host of
 the Saturday night banquet dinner.

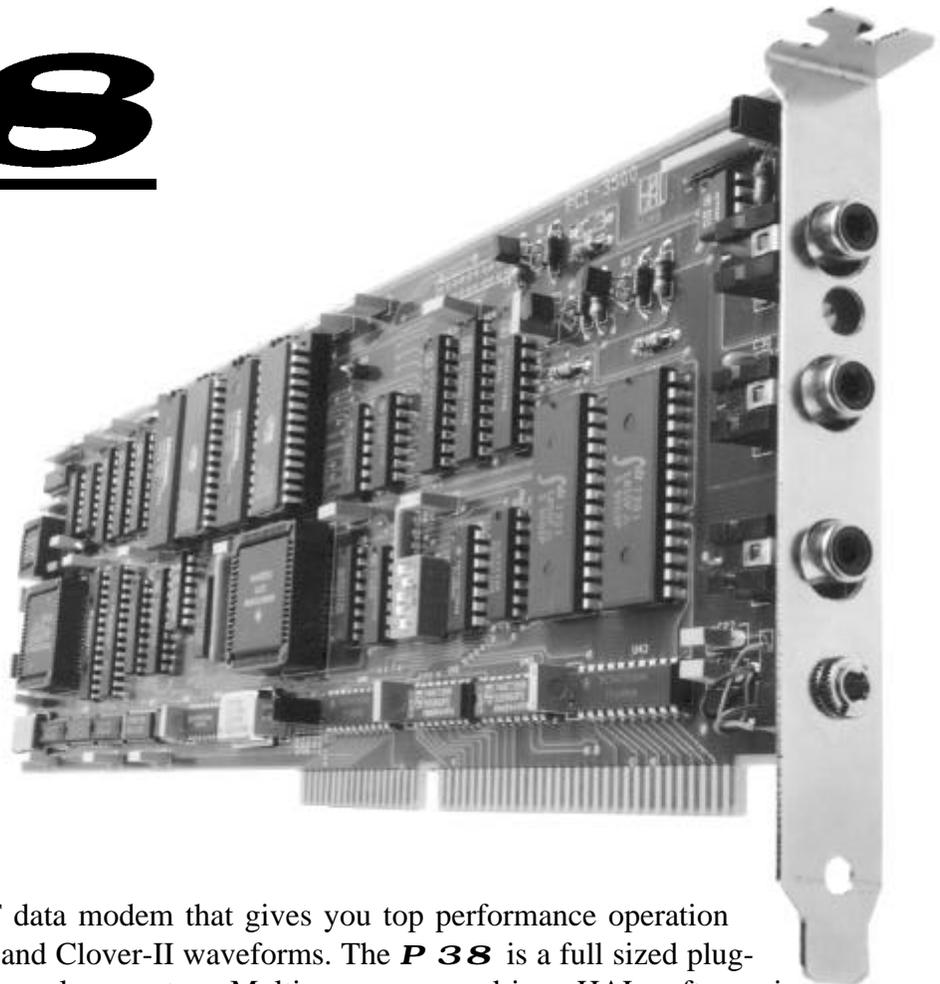
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FOR SALE: Dovetron MPC-1000R Frequency Shift Converter. Used very little. In original packing. Contact Fred Schmidt, N4TT P.O. Box 8873, Ft. Lauderdale, FL 33310-8873 Ph. (305) 583-1340 or Fax (954) 583-0777

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.

SPECIFICATIONS

DATA MODES: CLOVER-II

Data	8-bit, transparent
Wave form	4-tones, 2250 Hz center
Bandwidth	500 Hz @ -50 dB
Symbol Rate	31.25 per second
ARQ Mode Modulation	BPSM, QPSM, and 8PSM
FEC Mode Modulation	2DPSM, BPSM, QPSM, and 8PSM
Error Correction Coding	Reed-Solomon code: 60, 75, or 90% Code Rate
ARQ Protocol	2-level, multiblock auto adaptive
Adaptive Mode Control	Measure S/N & Phase on all data; set TX mode
ARQ Thru-put	8 to 35 bytes/sec.
FEC Thru-put	4 to 25 bytes/sec.

FSK MODES:

RTTY Codes	Baudot and ASCII
Baudot Rates	45, 50, 57, 75 Bd
ASCII Rates	75, 110 Bd
RTTY Tones	1275/1445 or 2125/2295 Hz
AMTOR Code	CCIR-476 & CCIR-625
AMTOR Modes	ARQ or FEC
AMTOR Tones	1275/1445 or 2125/2295 Hz
AMTOR Rate	100 Baud
P-Mode* Modes	Auto-ARQ & FEC
P-Mode* Tones	2100/2300 Hz
P-Mode* Rates	100/200 Baud

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



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