

# RTTY

APRIL 1981

*Journal*

VOLUME 29 NO. 4

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SEE - MAILBAG-OUT OF THE BLUE - COLUMN FOR THE STORY ON THIS PICTURE

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RTTY MICROCOMPUTING

PREVENTING RFI

CONTEST RULES

CONTEST RESULTS

## RTTY JOURNAL

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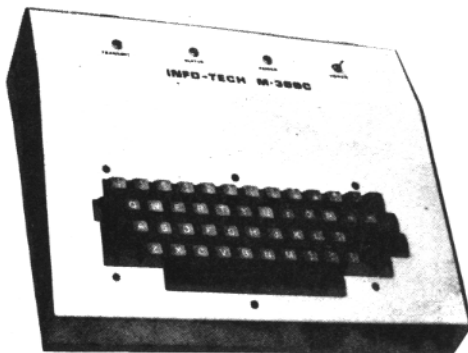
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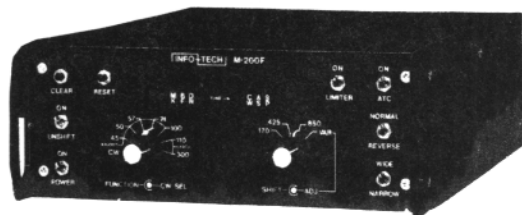
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# VHF NEWS

BY: John R. Cunningham, WA9WJG.....Rural Route 2, Box 91....Covington, Indiana 47932.....

First things first, I am very happy to have the opportunity to write this column for the JOURNAL.

Let's get acquainted, name and QTH are above, age is 40. The location here is one mile east of the Illinois and Indiana State line, three miles north of Interstate 74. I can see Danville, Illinois, six miles away, out of the window.

I have been licensed since 1967, currently holding an Advanced Class. I do work HF RTTY also, when I cannot find anyone on VHF.

There are three RTTY repeaters in this area. The first one, the Urbana, Illinois repeater, is RTTY only. This repeater is on 147.60/.00. Though it is down for repairs at the moment. I heard from AL WB90IH, that it should be going again in the near future. Bill K9GWT, has his HAL DS 3100 ASR on this machine. He has the MSO storage option on it. If you have not worked one of these yet, why not get on and check it out ?? You are missing a lot of fun.

The second machine in this area is the Gridley, Illinois repeater, which is RTTY and fone. This fine machine covers a lot of area in the middle of Illinois and the western part of Indiana, and does it consistently. This repeater can hear my 10 watt, 8 element station, nearly 100 miles away most any time.

The third repeater in this area is the Indianapolis, Indiana repeater 146.28/.88 RTTY/fone. This repeater is not very high, it is located on one of RCA's buildings, but even so it reaches out 75 miles to here quite often. This repeater is operated by the RCA Radio Club and has some really neat features which I will be telling you about in a future column.

I would like to have some details on some of the repeaters out there. I will compile this information and then make it available to anyone wanting it to put together an RTTY repeater. What kind of equipment are you using in your repeater? How are you setting up the RTTY/fone system? How about your auto start or auto re-

sponse system, how is it set up? What is your local bunch doing on 6 or 2, how about 220? Do you use AM or FM, AFSK or FSK, mechanical clunker, spaghetti factory style or latest state of the art????

Send me what you can about these systems, any and all info appreciated.

Got a question about RTTY? I may not know the answer ( understatement) but I will bet I can help you find it. Send you questions in, someone else is probably wondering about the same thing. If you send an SASE I will answer direct.

With a little input from a lot of people I hope to make this an interesting column. If you see me at a Hamfest by all means say HI. If you hear me on the air you will not be forgiven if you don't call me...Hi Hi. If you see or hear me anywhere let's talk RTTY, VHF in particular. I want to hear about your VHF RTTY DX too, anyone ever get a WAS VHF RTTY?

Do you know that some people think that 2 meters will not work over 100 miles away?? Illustration, one Sunday evening last November I received a phone call from a fellow in Iowa. He said, "Was that really you I was working on 2 meters RTTY?" When I confirmed it he told me that he thought it might have been one of the locals having some fun with him on the air.

The point I wish to stress here is, that if you are not on VHF RTTY, why not??, you are sure missing out on a lot of fun.

After the previous administration, I hesitate to say this, but listen for my "peanut whistle", I'll be looking for you on VHF RTTY.

73 John.....

MORE	CONTEST	RULES
14th EUROPEAN DX-CONTEST WAEDC 1981		

WHEN- 00.00 UTC Saturday, November 14th until 24.00 UTC Sunday, the 15th Single OP stations should not exceed 36 hours of operation. Take no more than 3 breaks for the off period please.

BANDS- Amateur bands 3.5 thru 28 MHZ.

CLASSES- Single OP-All bands, Multi-OP-Single TX, SWL-printer.

MESSAGE- RST/QSO-number.

POINTS- One point for each QSO, a station may be worked once per band, each confirmed QTC- sent or received- counts one point also.

MULTIPLIERS- Will be counted according to the EUROPEAN and ARRL Countries list, in addition each JA, PY VE/VO, VK,W/K. ZL, ZS, UA9-0 call area. Contacts on 3.5 MHz may be multiplied by four, on 7 MHz by three and on 14/21/28 by two. (See also note: Special regulations for RTTY).

SCORING- Final score is total QSO-plus QTC points multiplied by the sum of all band-multipliers.

QTC-TRAFFIC- A QTC contains time, call and QSO number of the station being reported, i.e. 1300/K7BV/134. A QTC should be reported only once and not to the originating station. A maximum of 10 QTC to the same station (all bands) is allowed only.Keep a list of QTC sent with series numbers i.e. QTC 3/8 indicates 3rd series containing 8 QTC.

LOGS- It is suggested to use the official DARC log sheets. Send SASE for your copies.

NOTE- Special regulations for RTTY (rearrangement)- In the RTTY section of WAEDC, contacts between all continents and also one's own continent are permitted. Contacts within the same continent count a multiplier of ONE per band, including 80 and 40 meters. QSO as well as QTC-traffic with one's own country (call area)

continued on PAGE 11



# UNSURPASSED RTTY

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FOR SALE: 6th edition of the "LIST OF RTTY STATIONS IN FREQUENCY ORDER", now contains 1717 frequencies monitored in 1980-81 of commercial stations like press, aeronautical, weather, telex, military, diplo, maritime etc, on shortwave. Schedules of 82 news agency stations on 641 frequencies and 178 special abbreviations are also included. This offset printed list is airmailed to you for \$17.00 (check or cash) from Joerg Klingenfuss, Panoramstrasse 81, D-7400 Tuebingen 7, West Germany.

THOUSANDS OF COMMERCIAL RTTY STATIONS are active between the Amateur shortwave bands. Many of them can easily be printed with your existing equipment. (Take care of legislative restrictions if applicable!) If interested, you need "software", compiled from nonstop monitoring the complete shortwave spectrum. I have up-to-date frequency, callsign, schedule, code lists on press, military, diplo, telex, aeronautical, weather etc. stations. Write for details. Joerg Klingenfuss, Panoramstrasse 81, D-7400 Tuebingen 7, West Germany.

FOR SALE: "LIST OF NEW RADIO REGULATIONS DECIDED AT WARC 1979", containing the original texts of those new Radio Regulations (RRs) which are of essential interest to Radio Amateurs. They cover: terms and definitions; designation of emissions (completely revised!); frequencies, callsigns; broadcasting service; Amateur service. The chapter dealing with frequencies contains the new Table of Frequency Allocations from 9 kHz to 150 MHz including all footnotes. Most of these new RR's will come into force on 1 January 1982. The list is compiled from official ITU documents and includes also the agenda and the final

acts of the Conference. This offset printed and hardbound book is airmailed to you for \$16.00 (check or cash) from Joerg Klingenfuss, Panoramstrasse 81, D-7400 Tuebingen 7, West Germany.

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TELETYPE PARTS WANTED. Any quantity, any models, highest prices paid. 201-464-5310 Van W2DLT Box 217, Berkeley Heights, NJ 07922.

TOROIDS WANTED FOR EXPORT, any quantity, 88mhz. load coils. 201-464-5310 Van W2DLT, Box 217, Berkeley Hts NJ 07922.

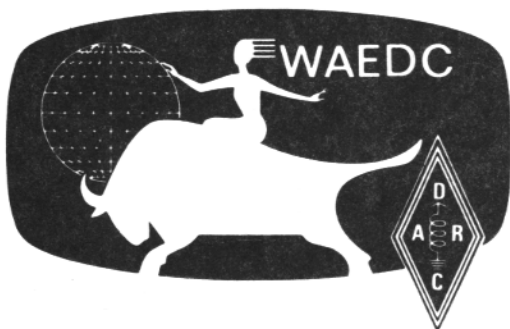
GOVERNED MOTORS, Teletype LMU 39/LMU 41 wanted. Also teletype ESU for ASR/KSR 28 Lo-Level/RFI (Gold box located in kneewell of unit, or will buy/swap whole units) 201-464-5310 Van W2DLT, Box 217, Berkeley Hts, NJ 07922.

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# RESULTS OF THE 13 TH EUROPEAN DX-CONTEST WAEDC 1980 RTTY

## Single Operator

Call	Score	QSO	QTC	Multi
1. I5FZI	126700	223	501	175
2. 3B8RS	98770	229	352	170
3. SM6ASD	87150	191	390	150
4. OZ1CRL	67080	167	349	130
5. 1LTXD	57342	195	308	114
6. UV3FD	37145	156	235	95
7. KØBJ	35306	85	193	127
8. 4Z4KB	31096	133	205	92
9. Y39XO	21014	95	171	79
10. YU2OH	20504	145	88	88
11. Y33TA	17898	96	218	57
12. DF5CI	12921	60	117	73
13. OE2SNL	11696	67	105	68
14. OK2BJT	10918	78	128	53
15. DL8QP	10560	54	138	55
16. EA3AZX	9945	66	129	51
17. EA3BLQ	9504	50	126	54
18. DF6AI	8268	58	101	52
19. DF6ZY	7473	59	82	53
20. VK3KF	7360	52	40	80
21. DL1VR	6370	48	82	49
22. DJ9IR	6118	44	89	46
23. W3KV	5916	50	52	58
24. DJ9MH	4944	37	66	48
25. DJ1XT	4160	35	69	40
26. DJ2YE	3465	55	0	63
27. G3HJC	3280	36	44	41
28. DK1RV	3161	45	64	29
29. YO3AC	3030	25	76	30
30. WA6WGL	2920	36	37	40
31. YU7NWJ	2325	49	26	31
32. G4HYD	2080	26	39	32
33. DL1OY	1242	16	38	23
34. I5YNQ	1225	35	0	35
35. DF7FB	1118	23	20	26
36. SL3ZR	720	24	06	24
37. SM6CAL	682	31	0	22
38. OZ9GA	675	25	0	27
39. DK4IS	506	22	0	23
40. Y59ZF	300	10	20	10
41. JA7ML	192	12	0	16
42. DJ1QQ	152	13	06	08
43. Y33UO	56	08	0	07
44. DL1AM	48	08	0	06
45. DL2ZA	28	03	11	02

Checklog: DJ4JI, LA4NL, LA6OU, Y71SL, YU2CB, SL5AR, SM5EIT, W. Ludwig

Contestmanager: DF7FB  
Auswertung: Kurt Wüstner

## TROPHY WINNERS

### Single Operator

I5FZI	Europe
3B8RS	Africa
KØBJ	N. America
4Z4KB	Asia
VK3KF	Oceania

### Multi Operator

LZ1KDP	Europe
JA3ZRT	Asia

### S W L

Friedhelm Reichel	Europe
-------------------	--------

## Multi Operator

Call	Score	QSO	QTC	Multi
1. LZ1KDP	138573	247	554	173
2. YU2CDS	125580	281	409	182
3. Y31ZB	71808	199	362	128
4. UK3DBG	64022	197	341	119
5. G3UUP	63196	233	194	148
6. DKØOW	53966	160	286	121
7. UK2BAB	52728	183	324	104
8. UK3ACR	24396	91	123	114
9. JA3ZRT	22275	102	173	81
10. OH1AR	04	02	0	02

### S W L

Name	Score	QSO
1. J. Dedic	70744	211
2. H. Ballenberger	44530	163
3. F. Reichel	30130	118
4. S. Kahr	27528	222
5. V. Cesak	22161	95
6. T. Double	16950	150
7. A. Schneider	4750	38
8. J. Bozek	3320	166
9. K. Wüstner	2320	46
10. C. Weise	288	18
11. D. de Puyt	136	07
12. E. Rauch	54	09

# DEUTSCHER AMATEUR-RADIO-CLUB E.V.

Mitglied der IARU

## REFERAT BILD- UND SCHRIFTÜBERTRAGUNG



RESULTS 3RD DARC +CORONA+ 10 M RTTY CONTEST DATED SEPT. 27TH 1980

CALL	SCORE	QSO	COUNTRIES	PREFIX
CLASS A:				
1. NBES	2340	45	15	37
2. DL5GAS	1729	37	16	31
3. WB2UEF	1548	36	13	30
4. OZ1CRL	1209	31	13	26
5. DF6ZV/A	1120	28	12	28
6. WA6WGL	962	26	12	25
7. AD0V	945	27	11	24
8. G3HJC	851	23	15	22
8. I5CBF	851	23	15	22
10. SL5AR	828	23	14	22
11. EA3BQQ	608	19	14	18
12. I0WBX	580	20	11	18
13. OK3K11	400	16	09	16
14. OK1WEQ	375	15	10	15
15. DL4GJ	364	14	12	14
16. G4HYD	325	13	12	13
17. EA3BLQ	322	14	10	13
18. DF8FD	231	11	10	11
19. W5TZB	084	09	03	09
20. DF6ZY	063	07	03	06
21. LA2IJ	050	05	05	05
22. LA7QM	025	05	02	03
23. Y32ZF	018	03	03	03
24. Y53UA	002	01	01	01

### CLASS B:

1. H. BALLEMBERGER	972	27	13	23
2. WERNER LUDWIG	580	20	10	19
3. OK1-20677	252	12	09	12
4. Y2-7111/A	144	09	07	09

WE THANK YOU ALL FOR THE BIG PARTICIPATION AND ACTIVITY ON THE BAND. TEN METER WAS GREAT AGAIN. WE LOOK FORWARD TO SEE YOU AGAIN AT THIS YEARS FINAL TEST WHICH TAKES PLACE ON NOVEMBER 15TH, JUST ONE WEEK AFTER THE WAEDC-RTTY TEST, IN WHICH WE HOPE YOU WILL JOIN IN ALSO. THE PLAQUES WILL BE MAILED SEPARATELY AS USUAL.

73, GOOD LUCK AGAIN, WILL MEET YOU ON THE BANDS, KLAUS DF7FB, MANAGER

*Klaus*

DF7FB



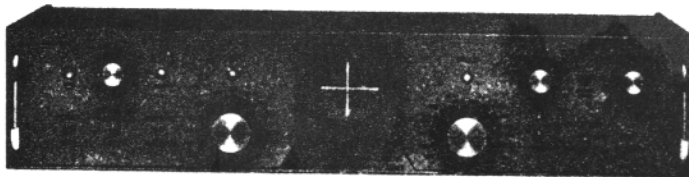
October 18-20th, 1980.

Scores for Single Operators

1. *U3FV	3,796,198	34. K4VDM	137,300
2. *I5FZI	2,712,360	35. VE7DOC	171,428
3. *K7BV	2,652,680	36. VE7DLX	132,344
4. *I2FKO	2,218,100	37. KØBJ	117,570
5. *W4CQI	1,837,140	38. VK3KF	105,800
6. *JA6GIJ	1,546,968	39. VE6GL	35,950
7. VK2SG	1,264,900	40. VK2EG	65,040
8. *SM6ASD	1,252,702	41. JR2TZL	60,252
9. *G3HJC	1,231,624	42. VK5WZ	56,472
10. *DL1VR/EA4KW	1,168,896	43. WØLHS	37,283
11. "VE2JR	1,129,576	44. OT7EP	31,680
12. *DL5GAS	1,082,920	45. VE4UA	29,986
13. *HB9LP	1,014,040	46. LA2IJ	22,488
14. *U3KV	998,404	47. VE5RG	17,480
15. *W6JOX	866,134	48. G3RDG	16,680
16. *VE7YB	845,520	49. W2KHQ	10,048
17. ON5UG	660,140	50. VE4WZ	9,720
18. VE2AXO	621,888	51. VE3BPM	7,680
19. WA6WGL	574,400	52. SM5AAY	2,700
20. VE4BF	522,265	53. WØTCO	280
21. IGJRA	501,000		
22. WA20QQ	455,304	<u>Multi-Operator</u>	
23. VK1GM	390,920	1. *LZ1KDP	1,677,264
24. GU3EHN	388,035	2. HA6KVD	376,540
25. *QR4PL	314,024	3. OR7OZ	29,046
26. QR7AZ	283,352	<u>S.W.L. Printer</u>	
27. W7HI	267,616	1. *OK1-11857	1,429,120
28. *VE7DTA	263,488	2. Horst Ballenberger	1,333,990
29. VO1EE	241,360	3. G8CDW	379,395
30. *DF3NA	220,892	4. DE-G10/1669613	29,046
31. VE8CM	220,728	5. Kurt Wistner	21,372
32. 9M2CR	215,870	6. DK4IS	1,809
33. KØPJ/6	188,150		

Check Logs: ISØESS, SM6AEN, OZ1DAF, UA9PP,

# DOVETRON

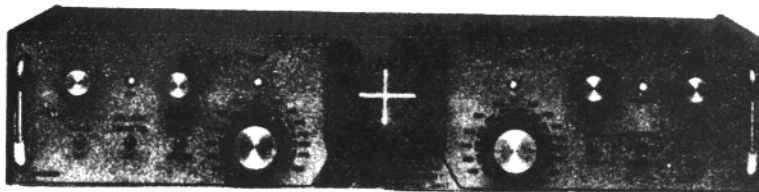


## MPC-1000C

Multipath Correction  
In-Band Diversity &  
AFSK Tone Keyer

Amateur Net:

Standard features include CONTINUOUSLY tuneable Mark and Space channels (1000 Hz to 3200 Hz), Dual Mode (MARK or FSK) Autostart and internal high level neutral loop keyer (20 to 60 ml). Both EIA and MIL FSK outputs are provided for direct interface to microprocessor and video terminal peripherals.

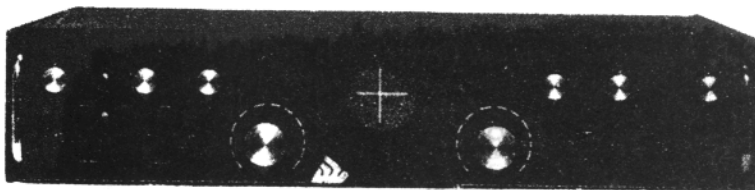


## MPC-1000CR

Signal Regeneration &  
Speed Conversion

Amateur Net: \$645.00

A front panel switch permits internal TSR-200 Signal Regenerator-Speed converter assembly to electronically "gear-shift" between 60, 67, 75 and 100 WPM. All incoming and outgoing signals are regenerated to less than 0.5% bias distortion. Also available with DIGITAL Autostart (TSR-200D): Amateur Net:



## MPC-1000R/- TSR-500

Dual UART Regeneration,  
Speed Conversion, 200  
Char. Memory, Word Cor-  
rection & DIGITAL  
Autostart

Amateur Net:

The MPC-1000R/TSR-500 provides Preloading and Recirculation of the 200 character FIFO Memory, a keyboard-controlled Word Correction circuit, Variable Character Rate, Tee Dee Inhibit, Blank/LTRS Diddle, a Triple Tone-Pair AFSK Tone Keyer and a Character Recognition/Speed Determination DIGITAL (DAS-100) Autostart mode.

\*The MPC-1000R is also available without a TSR assembly and functions as a MPC-1000C with a Triple Tone-Pair AFSK Tone Keyer. This "Basic-R" permits future expansion with a TSR-100, TSR-200, TSR-200D or TSR-500 by simply lifting the lid and plugging in the appropriate TSR assembly: Amateur Net (Basic-R):

Your QSL will bring complete specifications, or call: 213-682-3705.



627 FREMONT AVENUE  
(P. O. BOX 267)  
SOUTH PASADENA, CA. 91030

# MPC-1000R BY DOVETRON

MULTIPATH CORRECTION, IN-BAND DIVERSITY, SIGNAL REGENERATION,  
UP-DOWN SPEED CONVERSION, 200 CHARACTER FIFO MEMORY,  
KEYBOARD-CONTROLLED WORD CORRECTION & DIGITAL AUTOSTART



THE MPC-1000R REGENERATIVE RTTY TERMINAL UNIT

The DOVETRON MPC-1000R is a complete Transmit-Receive modem designed for optimum radio teleprinter communications on land, sea and in the air.

Standard features include a high level loop supply and keyer (neutral or polar), EIA and MIL FSK outputs, a phase-continuous AFSK Tone Keyer with three selectable Mark - Space - Shift tone pairs, Mark, FSK & Digital Autostart, Automatic Markhold, an internal RY Generator for terminal unit Self-Test and circuit adjustment, and a Signal Loss Alarm circuit.

The MPC Series is available in six different models to meet your exact requirements.

**Complete specifications are  
available on your request,  
or call 213-682-3705.**



**627 Fremont Avenue  
South Pasadena,  
California 91030, U.S.A.**

**RTTY Journal**

**PO BOX RY**

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