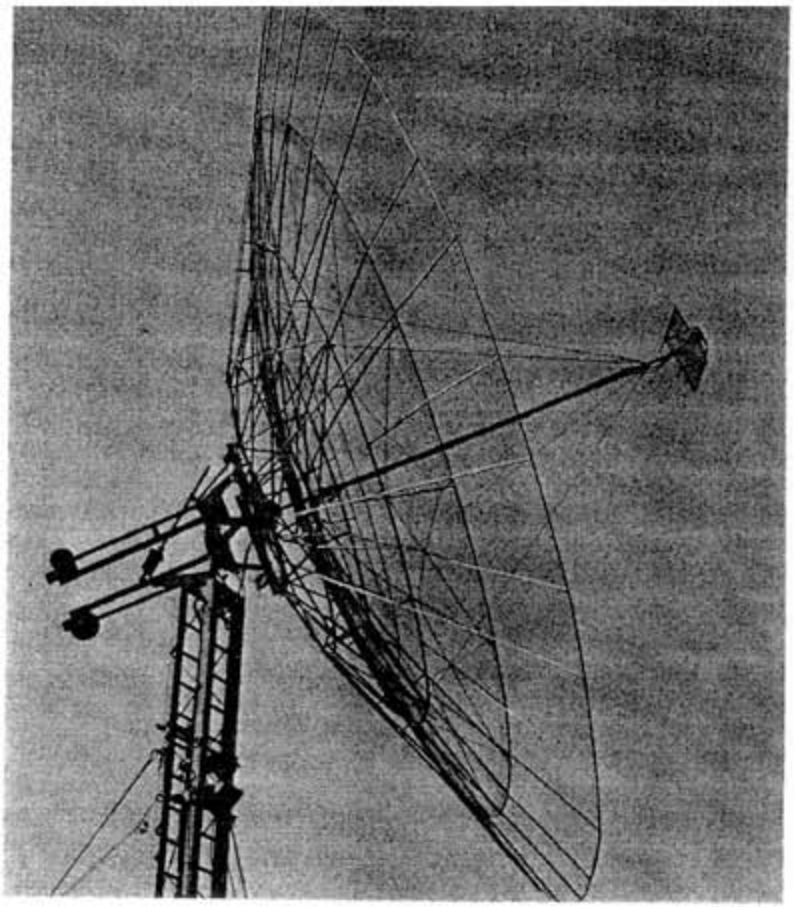
Results, Third ARRL EME Competition

Moon bounce

By Tom Frenaye,* K1KI



JA6CZD

Another increase in activity highlighted the 1980 EME Competition. The logs received indicate 121 stations made successful EME QSOs, up from last year's 98. Even more encouraging was the average QSO total for single-operator stations, which jumped to 19 (13 last year and 7 the year before). On the disappointing side was the number of stations submitting entries, down slightly to 62 this year.

The equipment needed to put together a successful EME station appears to be more commercially available each year. Preamps with 1.0-dB noise figures through 432 MHz and 1.5 dB on 1296 MHz can be built with reasonably priced devices, or purchased complete. The major work involved seems to be getting the antenna(s) built and aligned, and in obtaining accuracy following the moon across the sky. The key to the whole operation is, of course, the operator, who must make the *system* work and understand the proper operating techniques on EME (certainly not the standard "59 Texas" type of contest exchange).

Note that only about one quarter of the stations have more than one-band capability, with 432 MHz favored overseas and 144 MHz in the USA. Both 1296 and 220 MHz showed signs of life this year, with the level of activity pleasantly surprising. Many people commented that single-band efforts should be given a little more recognition, so you will see a summary of single-band leaders elsewhere in this report.

One of the more interesting things to arrive recently was a copy of the *1979 Lunar Directory*, published by the Central States VHF Society. They have undertaken the job of listing active EME stations, including equipment and telephone numbers, around the world. The 1980 version should be available soon — send an s.a.s.e. to WØVB at his *Callbook* address for more information, as quantities are limited.

Several people suggested that perhaps the 1981 version of the EME Competition should be held later in the year, to allow for some antenna-constructing weather. For a change, the two weekends in 1980 were blessed with positive moon declinations, giving those in the Northern hemisphere a better shot. Anyone want to suggest dates for 1981 that avoid established vhf conferences and optimize moon declinations?

*Assistant Communications Manager, ARRL

Single-Band Leaders

	Single Operator	*Multioperator*
144 MHz	GW4CQT	I2MBC
220 MHz	—	K2UYH
430 MHz	DL9KR	K2UYH
1296 MHz	VE7BBG	G3WDG

SOAPBOX

I found conditions to be extremely poor the first weekend. Libration QSB was severe the second weekend (WA3VSJ). Good conditions the first weekend. Thanks for the event (DL9KR). May have set a new record with my 18,925-km QSO with ZL3AAD (F9FT). QRM on 432 was like on hf (PAØSSB). I think it is a mistake to spread this over two weekends, a kind of saturation point is reached when no new stations are worked (ZE5JJ). I did not expect to hear QRM on 1296! (VE7BBG). I wonder if the volcanic ash on my antenna had any adverse effect? (WA1JXN/7). Probably could have heard DK1FGA off the back of my array (WB4EXW). A nearsighted blackbird did not survive the collision which left the last director on one antenna badly bent (K9XY). First time on with new az-el 42-foot homebrew dish (KAØY). Our single 2C39 on 1296 MHz with 30 watts of rf at the feed point was enough to work LX1DB! Heard several stations on 432 using a single 20-foot long 27-el loop Yagi and 0.5-dB NF preamp (G3WDG). Hope to make it again next year (OH6NM). Happy that K2UYH and crew gave us some 220 activity (W5FF). The contest was the culmination of more than a year-long group project. Since a suitable screen for our 24 foot stressed parabola was not available, a large group effort went into weaving four-foot wide by 25-foot long strips of mesh, with solder joints every two inches! (N6GN). As many as three stations at a time answered our CQs! (W1ZX/K3NSS). Must be some kind of record to operate 45 hours in two contests and not complete a contact (WØVB) QST

Line scores list: Call, score, stations heard, stations worked, multipliers, band (A-144 MHz, B-220 MHz, C-432 MHz, D-1296 MHz)

Single Operator

K9KFR 142,600-35-25-17-A
26-21-15-C
DL9KR 137,700-52-51-27-C
DL7YCA 111,800-44-43-26-C
F9FT 102,500-45-40-26-C
JA6CZD 92,000-40-40-23-C
PAØSSB 87,500-32-31-21-C
5- 4- 4-D
SM2GGF 79,200-36-36-22-C
F2TU 78,200-34-34-23-C
ZE5JJ 70,000-35-35-20-C
VE7BBG 69,600-24-24-19-C
GW4CQT 69,300-31-30-19-A
3- 3- 2-C
N7NW 52,200-33-29-18-A
I2COR 48,600-29-27-18-C
OK3CTP 44,200-27-26-17-C
WA1JXN/7 42,500-25-25-17-A
VK5MC 34,000- 2- 2- 2-A
16-15-12-C
3- 3- 3-D
K4QIF 34,000-20-19-16-C
1- 1- 1-D
G5CSZ 33,000-35-22-15-A
WB5LUA 32,300-17-10- 9-A
11- 9- 8-C
G3LTF 31,500-30-21-15-C
3- 0- 0-D
SM7BAE 30,400-20-19-16-A
JA6AHB 28,500-21-19-15-C
JA9BOH 26,600-23-19-14-C
VE4MA 26,600-20-19-14-C
WBØQMN 24,700-20-19-13-A
YU2RGC 24,000-20-20-12-C
WA3VSJ 22,100-31-17-13-A
SM3AKW 22,100-17-17-13-C
ZL3AAD 19,500-16-15-13-C
WB4EXW 13,000-18-13-10-A
W6ABN 12,000-12-12-10-C
WBIDU 9900-11-11- 9-A
DJ8QL 9000-10-10- 9-C
1- 0- 0-D
W5LUU 9000-18-10- 9-A
WB6ESQ 7200-18- 9- 8-A
HB9SV 7000- 7- 0- 0-A
11-10- 7-C
K1FO 4800-12- 8- 6-A
K1MNS 4500- 9- 9- 5-A
K9XV 3000-15- 6- 5-A
KA1GT 3000-10- 6- 5-A
FØMD 2400- 6- 6- 4-A
KØKE 1600-16- 4- 4-A
JA6DR 1600- 5- 4- 4-A
WA9ACI 1600- 4- 4- 4-A
KAØY 900- 2- 2- 2-A
1- 1- 1-C
WB8PAT 400- 9- 2- 2-A
W7CI 400- 2- 2- 2-A
WØRWH 400- 2- 2- 2-C
WØRAP 100-10- 1- 1-C
WAØLPK/KL7 100- 1- 1- 1-A

Multioperator

K2UYH(+KB2AH,WA2LTM, W3s HQT IW,WA3s JUF, NFV) 187,200- 6- 5- 4-A
3- 3- 3-B
43-43-29-C
1- 0- 0-D
I5MSH(+I5s CTE TDJ) 100,000-42-40-25-C
G3WDG(+G3YGF,G4CNV, G8RHI) 54,000-26-26-19-C
3- 1- 1-D
I2MBC(I2s FUM SVA SXZ ZFN,I4EAT,oprs) 20,400-32-17-12-A
W2AV(+WB2KAO) 4800- 8- 8- 6-A
OH6NM(+OH6NU) 1800-29- 6- 3-A
W5FF(+K5FF) 1600- 1- 1- 1-B
3- 3- 3-C
WA4OYH(+WA4YWK) 600- 6- 3- 2-A
N6GN(+K6RFT,W6SFH, WA6ARE,WB6KDF,WD6CJF) 100-15- 1- 1-C

Non-Amateur Equipment

K3NSS(W1ZX,W3PJM, K3AGR,oprs) 47,500-25-25-19-C

SWL

WØVB (9 stations - 144 MHz)
K1ZZ(+W1VD) (11 stations - 144 MHz)

Other Active Stations

DK1KO,DK1BM,DF3RU, DJ9DL,DK1FGA,DK5LA, DL6WU,F9TU, F6CIS, G4EZN,G4DZU,G3ZSS, GW3XYW,HB9AYX,HB9BPQ, JA8QQ,JE6CTS,LX1DB, LU3AAT,ON4DY,OZ2VM, SM4DHN,SM5BFK, SM6CKU,SMØEER,VK3BKF, XE1RY,YV5ZZ,Z55ZY,AD1C, W1JR,K1WHS,W1XP,WA2FUZ, K3VGX,K4GL,WA4GPM, WA4NJP,W4HJQ,K4PKV,W4WD, K5BMG,WA5IED,K5JL,K5UGM, WA6HXW,W6PO,W6YFK, WA7BBM,W7FN,W7FU,W7GBI, WA7JUO,W7VEW, WA9KRT,WB9VEM,W9VWY, WØHHE,KØVXM,VE7BQH