

cross talk

A MONTHLY NEWS BULLETIN OF TRW AMATEUR RADIO CLUB



Sponsored by Systems Employee Association
March 1973
Vol. VII, No. 3

TRW/ARC Net Saturdays 7.280 MHz, 1000 PST

CLUB MANAGEMENT AND STAFF

OFFICE	NAME	CALL	LOCATION	PHONE
PRESIDENT	PAUL WEISZ	K6YQ	R2-1150	62414
VICE-PRESIDENT	TED CARTER	WA6PAS	E1-4037	62006
SECRETARY	FRANK HALLIGAN	WB6GBC	E1-3005	61266
TREASURER	JERRY DEAN	WA6GVO	R3-1072	61612
ACTIVITY MANAGER	JACK CLARKE	WB6TCR	M5-1150	64208
TRUSTEE	CARL ROTHROCK	w6myc	s -389	50345
CROSS-TALK EDITOR	ED THORNLEY	WA6JHD	R6-2188	51507
EMERGENCY COORDINATOR	DOUG FREEMAN	w6nhx	M4 - 2243	53126
FIELD DAY CHAIRMAN	DOUG HEYDON	wB6wds	65-1346	52061
DEPUTY FD CHAIRMAN	BILL DEWS	K 6AWO	M2-1141	64571
MEMBERSHIP CHAIRMAN	SUE KENNEDY	WNGTXV	R3-1028	51870
PUBLICITY CHAIRMAN	JOEL WINEMAN	WA6WRB	M4-2315	52275
QSL MANAGER	JACK KOHO	wn6qkm	S -1471	53285
RACES MANAGER	DOUG FREEMAN	w6NHX	M4 - 2243	53126
SEA COUNCIL REP	STEVE SHANE	WA6NRQ	M1-1545	63090 61673
TRAINING MANAGER	AL LEE	W6KQI	R5-1171	010/3

MARCH PROGRAM

Los Angeles County RACES Program and film "Sylmar Earthquake"

by Sgt's. Carl Kennedy and Frank Oakden, Los Angeles Sheriff's Dep't.

28 March 1973

R2-1055

1200-1300

THE PREZ SEZ

By Paul Weisz, K6YQ

We keep a file folder labeled "Little-Known but Useless Information", known in some circles as a gee-whiz file. Got some data from it the other day that shows how the TRW/ARC looks in terms of amateur license class distribution versus the total U.S. ham population and those in the state of California.

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License Class	USA (%)	California (%)	TRW/ARC (licensed)(total)
None	- ¹ 1	- , , , , , , , , , , , , , , , , , , ,	- 21.1
Novice	8	7	15.1 11.9
Technician	20	20	6.5 5.1
General/Conditional	45	42	24.7 19.5
Advanced	22	26	39.7 31.4
Extra	5	5	14.0 11.0

Shows what you can do with a callbook, a club roster, a desk calculator and a little spare time. Also shows that the club is conparatively strong in terms of the technical and operating skills of it's members.

Reading between the lines of some of the FCC's recent procouncements (particularly those on phone band expansion), it can be seen that one of the major concerns of that agency is the upgrading (or non-upgrading) of U.S. amateur licenses. By comparison with the Canadians (70 % of the VE's hold their highest license class), the W/K ham population doesn't appear (as a group) to show mjch drive toward the higher license classes. The FCC Reports and Orders seem to state pretty clearly that incentives for the higher classes are going to be increased to change the situation. Freely translated into sub-band allocation terms, this probably means that General Class amateurs will have less space, and that Advanced/Extra Class people will have more. If Prose Walker does what he proposes to do, there will also be call sign distinctions between license classes to make sub-band allocation enforcement easier for the FCC.

If anybody has been casually thinking about upgrading, this might be a very good time to buckle down and do something about it. Nuf sed -

73 Paul

ORGANIZATIONAL ANNOUNCEMENT

Paul Weisz K64Q

It is with deep regret that I have had to accept the resignation of Jack Clarke, WB6TCR, from the post of Activity Manager to which he was elected last November. Jack has a great many things going on this year, lots within TRW and outside, and feels that he just cannot do justice to the job. Of course he remains with the Club and we hope to see him at the meetings.

It is with pleasure that I can announce that Roger Trapp, K6SSN, has accepted nomination to the Activity Manager's job. Roger has racked up an impressive total of new countries and states on WB6WPO, having already completed 5BDXCC at home!

A special election will be held, as provided for in the Constitution, at the next general meeting. A ballot is included in this issue, with space for write-in candidates, of course.

TRW/ARC RECOGNITION AWARDS

Anyone, member or not, who works five TRW/ARC members on the air, is entitled to a handsome certificate with old English lettering, gold seal and everything, Since 10 to 15 of us can be found on about 7280 KHz any Saturday morning after 1000 local time, this award is not hard to get. Apply to Paul Weisz in writing, with a list of the five members contacted - call, date, band and mode.

We are now issuing andorsement stickers for particularly meritorious achievement. Ed Thornley, WA6JHD, recently submitted evidence of having worked over 25 TRW stations, and Fred Reed, W6UMC, is the proud possessor of a 50 station endorsement. Come one, come all!!!

TRAINING PROGRAM

BY AL LEEW6KQI

TRW/ARC Members Come Through Again
About two months ago when the new novice and General Courses were beginning, I had doubts that there would be instructors for all six classes.
A rather urgent plea went out for code and theory instructors and thankfully, several club members responded.

On Monday, Cecil Jordan, WB6KHF comes from Aerospace Corporation to instruct our new General Class in theory. Also, on Monday, Steve Shane, WA6NRQ instructs our new novice students in theory. On Tuesday, I try to shove higher speed CW into the heads of our old-timers. Wednesday evenings, we find our president Paul Weisz, K6XQ and recently Jim Keating instructing CW to the new general and novice students respectively. Thursday evenings, the old-timers are taught General-class theory by Jim McWilliams, W6RTG.

Many thanks to those who are giving their time for the worthy effort to perpetuate our hobby.

CODE TABLE

THE LERC code table was purchased recently and is presently located in S/1480. Some minor modifications are needed to prepare it for multi speed simultaneous code transmission. Neal Hudson, WN6VCZ has volunteered to help with the modifications which should take place shortly. Many thanks to Doug, WB6WDS for driving to Burbank to pick up and deliver the table.

73 Al

SECRETARYS REPORT

by F.X. Halligan WB6GBC

The regular monthly meeting of the TRW Systems Amateur Radio Club Executive Committee was called to order at 12:12 P.M. on Tuesday, March 13, 1973, by president Paul Weisz. Others in attendance were: J. Dean, W. Dews, F. Halligan, D. Heydan, J Koho and E. Thornley.

(Correction to published minutes in last issue of Crosstalk: The February, Executive Committee Meeting was not held in the year of 1873, as was indicated, but was held February 13, 1973.

CLOSED BUSINESS

- l. <u>Life Membership</u> has been dropped from further committee action. It was deemed that any change from the \$2.00 per year minimum required by SEA would be in conflict with the SEA Clubs regulations.
- 2. <u>SEA representative</u>: Steve Shane has volunteered to represent TRW/ARC at the SEA Council Meetings. (...bring home the bread, Steve!)
- 3. <u>CODE TABLE:</u> Al Lee and Neal Hudson will complete modifications of the code table.
- 4. Antenna Party: Weisz announced that his recent antenna installation was a complete success and that the DX is fine!
- 5. RACES ID Pictures: Lee announced that all ID photos are completed and that 10 members will initically join RACES.
- 6. CERTIFICATES: Halligan has sent letters to CQ and Ham Radio magazines announcing the TRW/ARC offer of Award Certificates upon submittal of a bona fide list of 5 club members worked to any amateur radio operator.
- 7. ARRL Affiliation: The paper work has been prepared for renewal and will be forwarded to ARRL Headquarters.

OLD BUSINESS

1. Certificate information stickers: Koho indicated that final proof has been received and that an order for 5,000 labels will be placed.

NEW BUSINESS

- 1. ARRL support: A motion was made and passed to send a letter extending TRW/ARC's support of the January 18, 1973, ARRL Resolution. (See February, 1973, Crosstalk).
- 2. Club Library: Koho complained about people not signing out for club magazines from the TRW Systems Technical Library in Bldg S. Jack indicated he would follow up on the present library procedures in force. (Oh and whoever took Jack's crystals from the club shack please return same to Jack!)
- 3. 1973 TRW/ARC Goals: Weisz announced that a special meeting of the club officers would be held on March 15 to discuss upcoming club activities.
- 4. March Club Meeting: Installation of club members in RACES, and a film on the Sylmar Earthquake.

The meeting was adjourned (by default) at 1:05 PM.

Respectfully Submitted Frank Halligan, WB6GBC Secretary, TRW/ARC

CLUB MAGAZINES-TRW LIBRARY

By Jack Koho, WN6QKM

The TRW Technical Library in Building S maintains a shelf of magazines furnished by the club for member use. The library has check-out cards for all our magazines. There is a lot of activity on our shelf. If any member wants one that is checked out, see the lady at the desk. She will call it back if it is checked out and overdue.

THE CASE OF THE MISSING CRYSTALS

By Sherlock Koho

Who has the missing crystals for the HW-16 in the WB6WPO shack? Please return them to me or Ted Carter. They are personal property of WN6QKM.

TNX Jack

FIELD DAY 1973

By Bill Dews, K6AWO

We now have the Team Captains for FD '73. Now we need the crew. Please call the Team Captain below that you would like to work with. Let him know what equipment - radios, chairs, night lights, etc. that you can bring. Following are the Team Captains and their assignments:

Team	<u>Captain</u>	Mail Station	Extension
40 SSB 15/80 SSB 20 SSB	Frank Cartier Fred Reed Steve Shance	R3-2004 M1-1545	53446 261 - 7951 63090
20 CW 40 CW Novice	Doug Heydon Bob Hume Jack Koho	65-1346 M2-2175 S -1471	52061 53262 53285
Generator Food	Frank Halligan Job open?	E1-3005	61266
15/80 CW	Al Lee	R5-1171	61673

HF PROPAGATION PREDICTIONS

Dx Fans - on the following three pages we have reproduced HF Propagation Prediction charts for the rest of 1973. Our thanks to the Lockheed ARC for furnishing this valuable info.

HF PROPAGATION PREDICTIONS - 1973 - FROM BURBANK

	SPAC	8888888 698888888 698888888888888888888	17.8 13.7.8 13.9 13.9	25.54 13.54 15.54 15.54 15.54	13.6 16.3 19.3 22.4 22.4
	ASIA	20.1 20.5 20.5 19.5 17.9	17.8 17.1 16.2 14.7 13.4 12.8	133.3 16.8 16.2 16.2 16.2	16.5 18.6 20.4 20.9 20.7 20.7
JUNE	SOAM	19.1 18.4 16.5 11.6 13.7	11.1	16.3 18.9 19.9 19.9 21.4	23.2 24.3 24.2 22.5 20.4 19.3
	AFRI	13.6 11.6 15.9 16.3	12.7 11.4 10.5 10.4 11.3	14.9 16.6 17.7 18.2 18.4	19.5 19.8 17.8 16.4
	EURO	13.8	13.9 12.5 11.9 13.0	16.9 16.9 18.4 18.3 17.9	18.0 18.0 17.7 16.9 16.7
	SPAC	25.5 26.0 26.3 25.1 27.1	20.0 17.0 14.4 14.4	17.7.7.7.7.1.1.3.6.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9	14.2 17.6 21.4 23.7 24.7 25.1
	ASIA	21.0 22.2 22.2 21.4 19.4	17.8 17.2 16.2 14.7 13.2	13.2 15.0 15.9 15.4 16.1	16.6 19.0 21.2 21.9 21.7
MAY	SOAM	22.2 21.4 19.6 17.9 17.0	10.7	16.6 19.1 20.1 20.0 22.5	24.6 26.8 25.7 23.9
	AFRI	16.2 13.6 17.2 15.3	1221	14.8 16.8 17.8 18.1 19.2	20.1 20.4 20.4 20.5 19.9
	EURO	22.22 22.23 23.29 23.59 23.59	13.3	14.8 17.1 18.5 18.7 18.6 18.6	18.4 18.1 17.3 17.8 15.8 13.4
	SPAC	29.1 29.2 29.1 26.7 22.9	18.6 18.2 18.0 17.1 16.5 15.0	13.7 14.6 16.5 16.1 14.7 13.6	15.2 19.3 26.5 27.7 28.5
	ASIA	23.2 22.9 22.9 20.3 16.0	16.0 115.5 114.9 12.3	12.5 13.8 15.6 15.5 15.6	16.9 18.2 21.4 23.7 23.7
APRIL	SOAM	25.9 22.6 19.1 16.6 15.6	15.1 11.3 11.9 14.9 13.8	16.2 19.3 21.2 22.1 23.2 25.4	27.6 29:1 30.0 30.4 28.4 26.5
	AFRI	19.8 15.2 13.2 13.4 12.5	11.5 10.6 9.9 9.7 10.3	14.1 16.3 17.8 18.5 19.1	21.1 21.8 21.9 21.8 22.1
	EURO	0.01 0.02 0.09 0.09 0.01	4.11 11.11 11.11 11.19	13.8 16.2 18.0 18.8 19.1	18.5 17.4 15.7 14.6 13.1
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• •	GMT	83828	1116983	. 12 12 13 18 18	57 2 2 57 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

Numbers in columns are Maximum Usable Frequencies (MUF) in MHZ for the hour shown in the GMT column to the Europe, Africa, South America, Asia and the South Pacific. To convert GMT to PST subtract 8 hours -- to convert to PDST subtract 7 hours area of the world indicated: Notes:

HF PROPAGATION PREDICTIONS - 1973 - FROM BURBANK

		•	Page /	
•	SPAC	24.4 24.4 24.0 23.0 19.2 16.5	15.75 14.18 13.44 13.55 13.50	13.3 20.8 22.4 23.2 23.9
SEPTEMBER	ASIA	20.9 20.9 19.7 17.9 14.1	13.9 12.8 12.4 11.0 10.7 13.4 13.1 13.6	14.0 16.3 19.1 21.2 21.9 22.1
	SOAM	22.0 18.8 15.5 13.9 14.3	14.0 113.5 113.8 123.5 120.5 120.9 120.9 120.9	26.6 28.2 27.9 26.6 24.4 22.5
021	AFRI	16.1 12.1 11.0 13.0 12.0	10.7 9.3 9.0 10.9 10.9 17.5 118.4	20.3 20.8 20.9 21.1 20.9
•	EURO	9.9 6.00 8.8 8.6 11.0	11.4 10.5 10.5 10.5 10.7 10.7 118.0	17.2 15.8 14.0 12.9 11.1
	SPAC	22.5 22.5 22.3 22.1 22.1 19.4	17.4 17.9 17.9 13.9 13.3 13.3 11.1	12.2 15.4 18.8 20.8 22.7
	ASIA	19.2 19.7 19.7 19.4 16.1	16.0 11.0 10.8 10.8 12.7 13.0 13.0	14.3 16.5 18.8 20.1 20.1
AUGUST	SOAM	18.6 18.3 17.2 15.6 14.6 13.5	11.6 10.2 11.5 13.2 12.9 12.9 18.9 18.9 19.3	22.7 23.9 24.7 23.5 20.9
~1	AFRI	12.8 10.6 10.6 14.6 14.0	11.3 9.2 9.2 11.5 11.5 17.4 18.2 18.2	19.2 19.3 18.4 17.1 15.7
	EURO	10.5	12.3 10.6 10.6 10.7 11.3 17.8 17.8	18.1 17.8 16.5 14.7 13.2 12.1
	SPAC	22.2 22.2 22.2 22.0 21.1	17.2 13.7 12.5 12.5 12.5 12.8 13.2 12.6	12.8 15.4 18.3 20.4 22.5
JULY	ASIA	19.2 19.2 19.8 17.2	17.51 17.51	15.5 17.6 19.6 20.6 20.5 19.8
	SOAM	18.0 17.8 16.4 14.7 13.6	11.0 9.7 10.3 13.3 12.7 13.3 15.5 18.1 19.0	22.22 23.22 23.6 22.1 19.4 18.1
	AFRI	12.4 10.5 10.8 14.9 15.7	12.3 10.9 10.9 10.9 12.5 14.5 16.3 17.9 18.1	19.1 19.2 17.8 16.5 15.3
	EURO	13.6 13.1 13.6 13.7 13.7	13.5 12.0 11.8 11.5 11.4 12.5 18.0 18.0 17.9	18.2 18.2 17.7 16.6 16.1
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Numbers in columns are Maximum Usable Frequencies (MUF) in MHZ for the hour shown in the GMT column to the area of the world indicated: Europe, Africa, South America, Asia and the South Pacific. To convert GMT to PST subtract 8 hours -- to convert to PDST subtract 7 hours Notes:

HF PROPAGATION PREDICTIONS - 1973 - FROM BURBANK

DECEMBER	SPAC	23.3 15.5 13.6 11.9	11.14 11.14 12.00 12.00 12.00	10.6 10.1 13.1 18.5 17.0	18 22 23 25 25 25 25 25 25 25 25 25 25 25 25 25
	ASTA	18.2 14.9 10.8 10.5 10.5	4.01 9.99 9.01 9.01 9.01	9.6 8.8 10.5 12.0 11.3	22.0 22.0 22.0 22.0
	SOAM	15.3	12.8 12.3 13.6 13.6 10.7	13.0 17.3. 21.3 23.5 24.1	24.4 25.3 25.3 22.3 18.6
Al	AFRI	113.1	10.3 10.9 10.6 9.9 9.3	10.2 12.9 16.6 19.7 21.9 23.8	23.9 20.6 18.6 16.8
	EURO	4.1.0.00.4.	7.4	9.6 11.7 15.8 14.4 10.2	0,00,00,00,0 w.r.n.00,0
	SPAC	27.8 22.5 17.7 14.9 13.2	1.22 1.22 1.32 1.4. 1.5. 1.4. 1.5. 1.4. 1.5. 1.5. 1.5.	11.6	18.6 21.6 23.4 24.0 24.7 26.2
	ASIA	21.12.14.12.12.12.0	11.6	10.7	13.1 14.6 18.5 22.8 25.5 24.5
NOVEMBER	SOAM	17.1 14.4 13.3 13.2 13.4 13.7	. 14.5 15.1 14.0 14.0 11.9	15.1 20.3 24.5 26.4 26.6	27.0 27.6 28.1 27.5 25.1 21.1
21	AFRI	15.7 12.8 11.0 10.2 10.2	10.8 10.8 10.5 9.9	11.5 14.9 18.4 21.1 23.1	26.0 26.3 224.6 19.2
	EURO	0000707 8004400	0.01	10.8 13.8 17.5 17.5 15.1	11 00000 100000 100000
	SPAC	26.5 26.8 22.8 18.6 15.9	14.3 13.6 13.6 14.7 13.7	12.3 13.1 15.8 13.7 11.9	16.0 20.1 22.4 23.3 24.1
OCTOBER	ASIA	23.4 20.2 17.2 15.1 13.5	888881 88881 8888 8888 8888 8888 8888	11.2 11.8 13.9 13.0	13.7 16.3 20.0 23.8 25.0
	SOAM	19.7 13.4 13.4 13.1 13.1	14.7	15.9 20.6 23.9 25.3 26.0	28.9 30.2 30.8 30.1 27.9 24.5
	AFRI	18.4 13.6 11.8 10.9 10.7	10.8 10.5 10.0 9.3 9.1	12.7 15.7 18.3 20.1 21.3	23.4 24.3 24.3 24.3 27.2 23.3
	EURO	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.6 10.9 11.3 10.9 10.4	12.0 14.9 17.9 19.6 18.3	14.9 13.0 11.3 10.9 10.0
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	GMT	838288	116983	13 15 16 17 18	20 20 20 23 24

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