

JANUARY 1981

PRESIDENT'S MESSAGE

The first meeting of 1981, the start of the 22nd year of GCARC, will be held at the American Legion Hall in Franklinville, which will continue as our meeting place on the first Wednesday of each month for the foreseeable future. Come out on the 7th and welcome our special invited guests:

Harry McConaghy (Connie Mack) W3SW, Former ARRL Atlantic Division Director.
Jesse Beberman W3Kt, ARRL Atlantic Division Director.
Hugh Turnbull W3ABC, ARRL Atlantic Division Vice-Director.

Our January program will be a demonstration and discussion of Radio-Teletype (RTTY). The 1980 US and DX callbooks will be raffled off for the 50-50 during the meeting.

1981 OFFICERS

PRESIDENT	Tom Widener KE2M
Vice President	Dave Bacon KD2T
Treasurer	John Sutocky KB2GL
Recording Sec.	Roslyn Marder N2AKL
Corresponding Sec.	Peter Bent KA2DOW
Director	Josh Brehm AE2L
Director	Sonny Gutin WB2DXB
Director	John Fisher K2JF
Director	Bob Grimmer KN2QWO
Director	Harry Jackson WB2GSF
Director	Howard Marder WA2IBZ

Training for 1981 will start with a novice/Technician course starting the first or second week in February. Chick WA2USI has informed us that he will not be able to conduct the 1981 Bike-A-Thon. Volunteers to undertake this worthy event should contact any one of the above officers or directors.

1981 dues are now due. Remember, if paid prior to March dues are only \$7.50.

The next Board of Directors meeting will be January 21 at the home of Bob G Grimmer KN2QWO,

Come out to what will surely be a most memorable evening.

CONTEST CORNER

Here are some individual results in recent contests as received by the committee:

ARRL SWEEPSTAKES CW

<u>CALL</u>	<u>QSOs</u>	<u>SECTIONS</u>	<u>SCORE</u>
N2BCF	464	67	6,2176
K2HPV	320	65	41,600
WB2UVB	201	55	22,110
KA2CQX	6	5	60
		<u>PHONE</u>	
WB2UVB	200	55	22,000

CQ - WW - DX, PHONE

		<u>ZONES</u>	<u>COUNTRIES</u>	
W2YC	478	76	175	334,332
N2ATD	391	67	163	264,040
K2SNK	392	54	145	228,452
KE2M	209	46	109	89,125
N2BCF	137	28	54	30,176
			<u>CW</u>	
W2YC	1026	105	268	1,085,803
N2CQ	190	32	89	67,397
K2HPV	103	22	64	25,714
N2BCF	92	33	52	18,445

The committee wishes to thank those who are participating in contests and turning in scores. If I'm not mistaken, we have recently attained a new first in the club. As listed above, KA2CQX Janice Bond, is the first YL club member to contest for the club and contribute point scores for club competition. Janice, I'd be thrilled to award you the first YL Megapoint award so keep at it, that's Great.

MEGAPOINT CONTEST CALENDAR: ARRL VHF Sweepstakes, Jan. 17-18th.
Two Land QSO Party, Feb. 7-8th.
ARRL Inter. DX, CW Feb. 21-22nd.
ARRL Inter. DX, Phone, Mar. 7-8th.

Please take note that the CW portion of the ARRL International SX contest is late in february instead of mid March.

In closing, a great big thanks to Dave W2YC for his over-a-million points in the CG Worldwide DX CW Contest. Bless you!! That's Tremendous!

PROPAGATION FORECAST FOR JANUARY 1981

I see for you "Low Freak" buffs that the CQ WW 160 CW contest will be on Jan 23-25. I hope all of you people who worked the 10 meter contest got DXCC and WAS on 10. It could have been done. In one hour of operation (½ hr. Sat., ½hr Sun) I worked 52 countries. Saturday night (better yet Sun. AM at 0030 to 0100 the meteor-scatter was doing its stuff on 6, 2, and 10. Around D045 on 10 meters the whole East coast from to North Car., west to Ohio, W.VA., Ind, Ky., and Mich, the close in hard to get states were coming in. All you had to do was to point your beams Northeast and there was everybody; so, WAS on 1D was a very possible chance. Worked a W1 station in CT., and who was at the mike, none other than aa2z ! Hya Mark. For the VHF goys, don't forget the VHF contest Jan 17, & don't forget to pick up your forms from Herb (K2HPV) at the January meeting. At this time may I add my congratulations to the new Officers of the Club. Good luck and may your time in Office be fruitful. To all you Ski buffs, "Think Snow NORTH of Trenton"

OK HERE GOES-ALL TIMES PITMAN TIME

160

Europe	1900 - D200
N. Africa	2000 - 0200
Mediterranean	2200 - 0000
West Africa	2300 - 0100
So. Pacific	03DD - 0700
Caribbean	2000 - 0400

80

Europe	1700 - 0300
N. Africa	2000 - 0230
Mediterranean	2200 - 0100
West Africa	2300 - 0200
So. Pacific, New Zeal	0300 - 0730
Caribbean-So. Amer	1900 - 0530

40

Use the same data as 80

20

Europe	0600 - 2100	
N. Africa	0700 - 0900	0100 - -300
USSR	0730 - 2000	
Mediterranean	1300 - 2130	
West Africa	1500 - 0100	
Central/So. Africa	1600 - 0100	
Asia	0700 - 0930	
Far East	1900 - 2230	
So. Pac. New Zeal	2100 - 1000	
Australasia	0700 - 0900	0000 - 0500
Caribbean-So. Amer.	Anytime	
Antarctica	2100 - 0400	

15

Europe	0800 - 1400
USSR	0800 - 1200
Mediterranean	0900 - 1430
Africa	0800 - 2000

15 cont'd

Far East	1800 - 2030
So. Pacific-New Zeal	1700 - 2030
Australasia	1800 - 2100
Caribbean	0700 - 2000

10

Europe	0900 1300
USSR	0800 - 1000
Mediterranean	0800 - 1230
Africa	0900 - 1630
Far East	1800 - 1900
So. Pacific-New Zeal	1500 - 1830
Australasia	1700 - 1900
Caribbean	0800 - 1800

6 F-2

Europe	0900 - 1100	Cross band
Caribbean-So America	0900 - 1200	

Also look around 2300 to 0100 for some fast T.E. stuff.

H.F. Good Days: 1-2, ^{*}5-6, ^{*}9-10, 16-17^{*}, 24, 29-30^{*}
V.H.F. Good Days: 5, ^{*}9, 12, 17, 21, 29^{*},

*Extra Good Days Generally Above Normal and high Flux with Low Noise. Well we are starting our climb from the long nights. Low bands will be very good during Jan. Excellent operation should be made on 160, 80, & 40. As Jan progresses toward Feb. you will note the longer operating hours on twenty and the start of 15.

THIRD CLASS Permits abolished. The FCC no longer issues Radiotelephone Third Class Operator Permits.

MARINE RADIO OPERATOR PERMIT: The FCC has established a new license called the Marine Radio Operator Permit. This permit is meant to be used in the maritime area only.

RESTRICTED RADIOTELEPHONE OPERATOR PERMIT It can be used to operate AM, FM, and TV broadcast stations. The restricted permit can be obtained by filing FCC form 753.

EXAMINATION ORDER CHANGED: For Second Class license the following form: Element 3, Element 1 & 2; for First Class: Element 3, Elements 1&2, Element 4 (Only for the time being.)

Well that is that for now. Good Luck in The Contests. I hope to see you all down at the Meeting on January 7th.

TO ALL A HAPPY, HEALTHY, AND PROSPEROUS 1981

73

K2JF



INTERESTING ITEMS FOR THE CLUB (I hope)

BY
K2JF

INTERNATIONAL COMMUNICATIONS REGULATIONS: International communication has been a special privilege enjoyed by radio amateurs' since the early days of radio. The amateurs' contacts with other "hams" all over the world has given them a "unique ability to enhance international good will," as expressed in Part 97 of FCC regulations. Because their communications cross so many national boundaries, however, they are governed by international radio regulations, which state in part:

When transmissions between amateur stations of different countries are permitted, they shall be made in plain language and shall be limited to messages of a technical nature relating to tests and to remarks of their personal character for which, by reason of their unimportance, recourse to the public telecommunications service is not justified.

THIRD PARTY AGREEMENTS: The United States has made special arrangements to permit U.S. amateurs to exchange third party communications with amateurs licensed by any of these 28 other governments:

Argentina	Dominican Republic	Israel
Bolivia	Ecuador	
Brazil	El Salvador	Jamaica
Canada	Ghana	Jordan
Chile	Guatemala	Liberia
Colombia	Guyana	Mexico
Costa Rica	Haiti	Nicaragua
Cuba	Honduras	Panama
Paraguay	Peru	Uruguay
Trinidad & Tobago	Venezuela	

RECIPROCAL AGREEMENTS: The United States has also made special arrangements with 55 other governments to grant reciprocal operating permits to visiting foreign amateurs. These reciprocal agreements enable a U.S. citizen who is a licensed amateur to apply for a permit to operate in one of the 55 other countries, and an amateur who is a citizen of one of these other countries to apply for a permit to operate in the United States.

Argentina	Denmark	Honduras
Australia	Dominican Republic	Iceland
Austria	Ecuador	Indonesia
Barbados	El Salvador	Ireland, Rep. of
Belgium	Fiji	Israel
Bolivia	Finland	Jamaica
Botswana	France	Jordan
Brazil	Germany, Fed. Rep.	Kuwait
Canada	Greece	Liberia
Chile	Guatemala	Luxembourg
Colombia	Guyana	Monaco
Costa Rica	Haiti	Nether. Antilles
Netherlands	New Zealand	Nicaragua
Norway	Panama	Paraguay
Peru	Philippines	Portugal
Sierra Leone	Spain	Surinam
Sweden	Switzerland	Uruguay
Trinidad & Tobago	United Kingdom	Venezuela

Amateurs who wish to apply for reciprocal operating permit should write to the radio licensing authorities in the government of the country to be visited. Applicants may get the addresses for these licensing authorities either from foreign embassies or from radio clubs listed in the Foreign Amateur Radio Callbook. Also write to the ARRL "How's DX" desk for information. Amateurs of foreign nations must apply to the FCC for Form 610-A.

Some information on DX nets for the fellows who are just getting started in DXing. DXNETS:

	MHz	UTC	
Colorado DX net	28.550	2330	Mon-Sat
DX-to-DX Net	28.750	1200	Mon-Wed-Fri
Novice DX Net	28.103	143D	Saturday
Artic/Norwegian DX Net	14.207	2100	Tues.-Wed.
	21.345	14D0	Saturday
	14.297	0900	Saturday
	28.570	1100	Sunday
JA Net	21.220	1400	Daily

The DX-to-DX Net is run by DK20C with restricted check-ins from stateside, two stations from each call area, after all others have checked in.

HAVE YOU WORKED OSCAR? Many amateurs don't realize how easy it is to make contacts via our OSCAR satellites (OSCAR= Orbiting Satellite Carrying Amateur Radio).

Where to operate OSCAR: OSCAR 7 and 8 both carry linear transponders as well as beacons. Their frequencies are:

OSCAR 7: UPLINK	DOWNLINK	BEACON
Mode A 145.850 to 145.950	29.400 to 29.500	29.502
Mode B 432.125 to 432.175	145.975 to 145.925	145.972

OSCAR 8

Mode A 145.850 to 145.950	29.400 to 29.500	29.402
Mode J 145.900 to 146.00	435.200 to 435.100	435.095

This means if you transmit at 145.900 MHz through the mode A transponders, you will hear your own signal being retransmitted near 29.450 MHz. Another thing to keep in mind is the DOPPLER EFFECT. Because the OSCAR travel at high speed the retransmitted signal can be heard up to ± 5 KHz from where it "should be".

How to receive? If you want to receive OSCAR 8 mode A any good 10 meter receiver will do the job. If you have a beam all the better, but a horizontal antenna will receive the signal sufficient enough for you to hear the beacon and to hear both CW and SSB conversations. Copy OSCAR 8's beacon and send the copy to the ARRL and receive an OSCAR QSL card. You will find the copy in groups of number starting with 100 and ending with the 600 group.

Where is OSCAR? You have to know when and where to look for OSCAR in order to use it. QST gives monthly orbital predictions, and general information on the radio amateur satellite program can be obtained free of charge from ARRL HQ. If you want to try it also contact K2JF who will give you the Orbits for a whole week or day or hour that you may want. Try It You'll Like It.

MARITIME MOBILE: For those mariners using 2-meter hand-helds, WATCH-OUT if you plan to use your marine VHF antenna. Although the antenna may have worked OK for your mobile VHF set, the high SWR will probably not be tolerated by our small handheld transceiver. The small VHF handhelds simply don't have the SWR protection circuit that their bigger brothers have. What happens with a high VSWR? On you handhelds, the power amp. transistor heats up, zap, and you are off the air for good. A good quality 2-meter maritime mobile antenna will get your signal out to some incredible places over the water. USQS Did you know that USQS is a domestic QSL bureau: Laryl Myers, N7BMY :USQS, P.O. Box 814, Mulino, Oregon 97042 is the place. It is an incoming and outgoing service that allows all U.S. and Canadian Amateurs to send QSLs to other U.S. or Canadian amateurs at a minimum of cost and effort. Available to all on an unlimited basis. Nominal handling charge of 25¢ for each 20 incoming QSLs (or portion thereof) is requested for cards coming to USQS.

John

FOR SALE

Practically brand new Heath station: SB-104A, Xcvr. SBA-104-1, Noise blanker.
SBA-104-8, 400 hz xtal filter. SB-604, speaker w/cab.; PS-1144, Power supply.
SB-644-a Remote VFO. SB-634, station console. Asking \$900.00 or make
reasonable offer. Doug/WA2NPD

I would like to thank everyone that helped with Crosstalk this past year. I hope that all had a very nice Christmas and will have a better 1981 than 1980.

73, Jack/AB2W