# The DX Bulletin

ISSUE 232 APRIL 2, 1984

AMERICA'S OLDEST WEEKLY AMATEUR RADIO PUBLICATION

PROPAGATION: Apr 1, Above/High Normal; Apw 2, Low Normal; Apr 3, Below Normal; Apr 4, Low Normal; Apr 5-8, High Normal; Apr 9, Low Normal; Apr 10, 11, High Normal; Apr 12, High/Low Normal; Apr 13, Low Normal; Apr 14, 15, High Normal; Apr 16, Above Normal. TNX N4XX.

Flux	Flux	Flux	Date	Flux	Alpha	K
(81)	(82)	(83)		(84)	(84)	(84)
184	215	118	3/22	123	8	n/a
189	204	117	3/23	124	17	2
185	190	118	3/24	116	22	0
200	191	118	3/25	114	23	3
204	195	118	3/26	112	25	3
198	198	110	3/27	121	12	3
204	201	105	3/28	130	17	3

ARRL BOARD MEETS; ELECTS NEW OFFICERS

At their Mar 26 meeting, the ARRL Board of Directors met in Hartford, Connecticut, and elected officers for the next two years. The new president is Larry Price, W4RA. Price holds a PHd and is chairman of the Finance and Law Committee at Georgia Southern College. He previously served as Southeastern Division director and as ARRL lst Vice President.

Elected 1st Vice President was Leonard Nathanson, W8RC, who was Great Lakes Division director. Nathanson is an attorney in the Detroit area. Additional vice presidents are Gar Anderson, KØGA, and Jay Holladay, W6EJJ. Vice directors taking over in their divisions until the next regularly scheduled elections include George Wilson, W40YI (for Nathanson in the Great Lakes Division), and Fried Heyn, WA6WZO (for Holladay in the Southwestern Division).

Carl L. Smith, WØBWJ, who had served the remainder of the term of the late Vic Clark, W4KFC, becomes IARU Vice President; Richard Baldwin, W1RU, is IARU President.

#### DX NEWS

KERMADEC EXPEDITION ENDED MAR 25. The team's boat was apparently rendered unseaworthy upon landing, and they hitched a ride off the island on a passing ship, cutting the operation several days short. QSL information for ZL8AMO, ZL8BQD, ZL8AAS, and ZLØAJW/8 is as previously published.

CHINA activity continues by VE7BC at BY4AA, BY1PK, and possibly this week from BY8AA. Operation is on 20 Meters SSB only. A new YL operator has been heard at BY4AA, apparently a resident. It is  $\frac{\text{probably}}{\text{probably}} \text{ safe to QSL VE7BC's contacts to his home address.}$ 

CAMBODIA's XUISS is back on the air, only on Sundays, according to the  $\frac{\mathrm{Japan}}{\mathrm{OZ}}$   $\frac{\mathrm{DX}}{\mathrm{News}}$ . They specify 0200-0400Z and 0700-1400Z, 30 up on CW and on 14.195, 21.295, and 28.595, with possible appearances on the "W7PHO Net" and on SEANET. Radio and technical books are solicited, to Chak Bory, XUISS (Ampil), c/o KPNLP, PO BOX 22-25, Ranintra P.O., Bangkok 10220 Thailand.

SAN FELIX CEØX is in the news...latest note from the Colvins of YASME expressed an interest in operating from there; their time is growing short, however, as they are expected to be at the Visalia International DX Convention at the end of April (at Dayton, too). Other rumors name a certain U.S. amateur as a possible San Felix operator, but those rumors have been denied.

SPRATLY ON TAP again, by DUICK, following the acceptance for DXCC of last May's 1S1CK short operation. Chito and others will go to Thitu Island for 1S2CK, Apr 30 to May 7.

JAPAN's DX FAMILY FOUNDATION announces an upcoming operation from TAIWAN, to celebrate the Foundation's fifth anniversary. About a dozen of their members will be there, with radios, April 28 to May 6; their application for licenses has been approved, but bands/modes are still uncertain. They are assured of having the same privileges as Tim Chen, BV2A/B, i.e., 10, 15, and 20 Meters, and the Japanese are hopeful of getting clearance for other bands. More information will follow later.

DXPRESS out of Holland says that G8GRN is no longer a valid callsign in England, and that G4CTQ (specified as QSL manager for G8GRN/5X) is currently operating from the Sudan as G4CTQ/ST2. All this may cause problems down in Newington. Stay tuned.

F6BFN/TT CHAD has left but F6AJB (FB8ZQ) will replace him there any day now. These Frenchmen are apparently part of a relief effort in Chad, which is facing a famine due to the worst central Africa drought in a decade.

ZK1XL (K60ZL) is marooned on the North Cooks, and expects to be there several more weeks.

STATISTICS from the most recent 1AØKM S.M.O.M. operation furnished by IØIJ: 4,003 QSOs on 1.8 through 28 MHz, including 166 on Top Band. Operators were IØIJ, IØJX, IØAMU, and IØMGM.

DJ6SI promises a 6-band CW only effort from Senegal and the Gambia for about ten days, which started Mar 28; it is not known how long he will be in each country.

ARGENTINA's DX GROUP says many of the LU/Z QSLs from 1982 and '83 got lost...try again as follows: LU3ZI to LU1DZ; LU5ZA, ZE, ZI, and ZR to LU2AH. Incidentally, old familiar CE9AH was reported on again from the S. Shetlands (Mar 27, 20 Meter SSB), says he will be there for about two months.

CR6CK/D2ACK reported a Silent Key, but CT1AOZ has the logs and will QSL...4S7WP temporarily off the air with keyer troubles...next issue will have the monthly QSL listings...and the QSL Help Needed column...W4ZWE reported heading for Egypt...don't forget large envelopes are needed for the oversize BY QSLs...

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1984 CLIPPERTON EXPEDITION DE W6SZN

BY HOW YOU HAVE HEARD that the 1984 expedition to Clipperton Island did not make it to the island. First, some background information. Planning and organization of this expedition began over two years ago. Once the landing permission and license were obtained, the effort necessary for a 14-operator, 6-transmitter multi-national expedition became almost a full time job. Literally thousands of hours and dollars were spent by the operators to ensure a safe and successful operation.

In early November we signed the charter contract for the Svanen, a 90 foot sailboat. The boat was  $\frac{1}{2} \left( \frac{1}{2} \right)^{2} \left( \frac{1}{2}$ then in Venezuela, leaving it more than sufficient time to arrive at Apaculco for the March 5 departure. At the end of January, we learned that the Svanen had encountered serious engine trouble and would not be able to make the trip. As a result of this, our charter agent began an intensive search in Mexico for an alternate boat. In mid-February, we located the Black Eyes, a 92-foot steel-hulled schooner. The boat was then in Panama and we were assured that it could arrive in Manzanillo Mexico by Mar 5. Based on these assurances, D39ZB, F6GXB, F9LX, F08IW, F08HL, and F08GW left their respective countries and arrived in California on Mar 1-3.

On Mar 2, we learned that Black Eyes had been delayed by a few days but was expected to arrive in Manzanillo on Mar- 10 or 11. We delayed our departure from California for a few days and left for Manzanillo Mar 8, arriving that night. After making arrangements in Manzanillo to obtain the last remaining items for the expedition, we began the long wait for Black Eyes. The boat had not been in communication with the charter agent (or anyone else) for several days and we were left to guess when it might arrive.

On Mar 12, with no news about Black Eyes, we began our search for another boat. Over the next six days, we scoured the Mexican coastline for suitable boats but none was found. We had numerous meetings with the Mexican military, with representatives of Productos Pesqueros Mexicanos, a stateowned fishing fleet, and with owners or skippers of private boats, but suitable arrangements could not be made. The six days were an emotional roller coaster for the operators, as one boat after another initially appeared suitable and available and then fell through.

On Mar 14, we learned that Black Eyes was about 200 miles south of Acapulco (550 miles from Manzanil-On Mar 16, becalmed and with a busted engine. FOSIW and FOSGW flew to Mexico City to discuss the matter with officials of the French embassy and with members of the Mexican Amateur Radio Club. They returned on Mar 17 with news of our last chance: 120-foot motor sailer named Sara Lee, that was sup posedly located somewhere about 75 kilometers north of Manzanillo. Six of us spent the day searching every bay from Manzanillo to a point about 100 kM north; no boat was found. With no other alternative, we returned to California Mar 18, bitterly disappointed.

Even before leaving Manzanillo, we began discus-Those discussing another Clipperton expedition. sions are continuing and details will be distributed to the DX community as they are worked out. We will write individually to those who contributed to the expedition, offering the full refund of each contri-bution. We hope contributions will be left in place for a future operation, but no guarantees of when that might be. The operators wish to express their sincere appreciation to all who supported our efforts. YASME

W6KG/CEØ Easter Island finished operations Mar 16 with 8,000 contacts in 127 countries. We arrived on Easter Island (2300 miles from the coast of South America) just in time for the ARRL SSB DX Competition. After setting up we discovered that the line voltage was only 170 instead of 220; a quick trip to CEØAE's house got us a voltage regulator and we were on in the Competition for 48 hours.

The Chilean authorities have recently issued many amateur radio calls which do not follow the traditional pattern of CEØA for Easter and CEØZ for Juan Fernandez; lately, CEØZ and CEØF calls have been issued on both Easter and Juan Fernandez Islands. The only sure way to know where a CEØ is these days is to ask. We had trouble obtaining transportation to Juan Fernandez (but they finally made it - ed).

--W6KG and W6QL

THE INTERNATIONAL DX FOUNDATION R.D.2, BOX 341 HYDE PARK, NY 12538

IDXF IS ALIVE AND WELL! You have not heard from us because we need a new newsletter editor, and volunteers are sought.

The Heard Island expedition (January 1983-ed) went very well and over 40,000 contacts were made to over 150 DXCC countries. This was the expedition of the Century in terms of distance, cost, and effort, and it left our treasury in a depleted state. Business has been enterfering with my activity and I have not had time to devote to the affairs of the Foundation. Our new president is Dr. Mike McGirr, K9AJ, and Terry Baxter, N6CW, has volunteered to handle all of our QSLs in the future. Vice Presidents are Rudy Lehnert, KB2XS, and Jim Grauser, WB2KXA.

We need volunteers for newsletter editor, publicity manager, slide show coordinator, and printing. Meanwhile, we have no large operations planned; our DX Committee (K9AJ, KP2A, KB2XS, N6CW, and K8CW) selects expeditions for support. Please write to K9AJ (13 Oak Hill Drive, Crete, IL 60471 USA) to volunteer your services and make suggestions for future directions for the Foundation.

-- John Ackley, KP2A, Director

#### TELEX/HY-GAIN

The TH6DXX hardware you mentioned (in TDXB #228) which rusted was only produced for a very short period of time before we went to stainless steel. I have told my Customer Service Department to send you the new hardware, as we did with all of our customers who received the irridited hardware. Since the TH6DXX was discontinued several years ago, all our antennas have used stainless steel clamps, bolts, and nuts.

I wonder if you have the courage of your convictions to put an answer to your (charges) in your DX Bulletin. Also, you may state that we are still happy and willing to replace any hardware that is defective at no charge. We still care!

> -- Alan B. Caplan, WØRIC Sales Manager Amateur Radio Products

# CW OPERATORS IF YOU OWN ONE OF THE NEW "FULL BREAK-IN QSK" TRANSCEIVERS YOU NEED A QSK 1500

Until now, the new "QSK" transceivers could only be used barefoot, or with one of ETO's (Alpha Series) linear amplifiers. Unless you own one of the fine Alpha Amplifiers, you could not operate "Full Break In" at high power. Attempting to use your new "QSK" transceiver with a regular amplifier i.e., Drake, Collins, Heathkit, Henry, etc., would result in damage to the amplifier due to "Hot Switching". You would also find the ability to hear between your own dots and dashes seriously degraded.

Now you can run high power "QSK" CW with any linear amplifier by simply installing the QSK 1500 in your station.

#### **FEATURES:**

- Ultra high speed pin diode switching
- Rated 1500 watts continuous output into a 50 OHM load.
- No modifications needed to either your transceiver or amplifier.
- Totally silent . . . No clicking relays.
- Compatible with any linear amplifier . . . Even Homebrew.
- Installs in minutes with only 2 additional coax cables (RG8) and 2 additional shielded leads with phono plugs. (Not supplied).
- Fully automatic bandswitching from 1.8 to 30 MHZ.
- Automatically switches from CW to SSB. No switches to throw and no cables to change.
- Includes a custom built continuous duty power supply.
- 90 Day limited warranty.

## **SPECIFICATIONS:**

- Absolute maximum power into 1.5-1 VSWR is 1500 watts.
- Absolute VSWR maximum = 2.0-1.
- Amplifier relay line maximum voltage = 150 volts AC or DC.
- Amplifier relay line maximum current = 0.75 AMPS.
- Keyer Input: Positive key line only (Set on back of your keyer).
- CW Key Line: Positive keying only (Cathode keying).
- Includes additional RF protection for your receiver front end.
- RF switching unit is attached to control unit by 4' of shielded cable for remote operation. (Supplied).
- Power Requirements: 120 VAC @ 1.0 AMP.
- Receive Line Insertion Loss: Less than 0.7 db Typical 0.2 db.
- Color coordinated to match the most popular transceivers.

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#### PRESS RELEASE

THE HC-5 "THE ICOM FIX" MICROPHONE ELEMENT

FROM HEIL. LTD.

THE NEWLY DESIGNED HC-5 "KEY ELEMENT" FROM HEIL, LTD. IS A SPECIAL ELEMENT DESIGNED SMALL ENOUGH TO FIT RIGHT INSIDE OF THE ICOM SM-5 AND SM-6 DESK MICROPHONE.

THE HC-5 HAS BEEN DESIGNED TO HAVE MAXIMUM SPEECH ARTICULATION FOR GETTING THROUGH THE NOISE AND PILE-UPS AND ADDS TREMENDOUS CLARITY TO THE NEW SERIES OF ICOM TRANSCEIVERS. THE PRE-AMP SECTION OF THE ORIGINAL ICOM MICROPHONE IS USED AS NORMAL. THE DYNAMIC HC-5 JUST REPLACES THE ORIGINAL ELECTRET CARTRIDGE IN THE SM-5. VERY EASY TO INSTALL.

- \* FREQUENCY RESPONSE: 350 4,000 HZ.
- # SENSITIVITY: -68 DB
- # IMPEDANCE: 2,000 DHMS
- \* POLAR PATTERN: CARDIOD PATTERN FORWARD
- # PRICE: \$22.95



THE HC-4 "DX DREAM" MICROPHONE ELEMENT

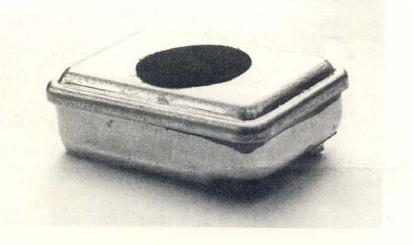
FROM HEIL, LTD.

IN RESPONSE TO THE SERIOUS DX AND CONTEST OPERATORS. THE ENGINEERS AT HEIL SOUND INTRODUCE THE HC-4 MICROPHONE ELEMENT.

THIS NEW "KEY ELEMENT" HAS A 10 DB PEAK AT 2,000 HZ. AND THE LOW END RESPONSE IS ROLLED OFF SHARPLY AT 12 DB. PER OCTAVE UNDER 500 HZ. THE HC-4 PROVIDES EXCELLENT CLARITY AND ARTICULATION FOR GETTING THROUGH THE NOISE AND PILE-UPS.

THE SIZE IS A BIT SMALLER THAN THE ORIGINAL HC-3 AND WILL MATCH MOST LOW IMPDEANCE INPUTS.

- \* FREQUENCY RESPONSE: 500 3,800 HZ.
- \* SENSITIVITY: -66 DB
- # IMPEDANCE: 2,000 OHMS
- \* POLAR PATTERN: CARDIOD PATTERN FORWARD
- # PRICE: \$22.95



#### HEADSET CONTROL SYSTEM

MODEL HCS FROM HEIL . I TD.

THE HCS IS NOT JUST ANOTHER HO-HUM HEADSET. IT HAS BEEN OVER TWO YEARS IN THE PLANNING, PREPARING AND PRODUCING EXCLUSIVELY FOR THE AMATEUR RADIO MARKET. TO DATE, 100% OF THE HEADSETS USED BY AMATEUR OPERATORS WERE DESIGNED YEARS AGO FOR INDUSTRIAL PAGING, THEATRICAL STAGE COMMUNICATIONS AND BROADCASTING. THE AMATEUR MARKET WAS A DREAM OF THE MARKETING PEOPLE OF THOSE COMPANIES TO JUST SIMPLY INCREASE THE SALES OF THEIR PRODUCT.

UNFORTUNATELY, THEIR PRODUCTS HAVE BEEN VERY POOR AND ARE FOR THE MOST PART INADEQUATE. THROUGH THE EFFORTS OF SOME MEMBERS OF THE HTT (THE HELL TEST TEAM!) WE WERE ABLE TO TURN SOME VERY INTERESTING DESIRES, HOPES AND DREAMS OF SERIOUS DX AND CONTEST OPERATORS INTO REALITY. THE HCS.

THE HCS IS NOT JUST "ANOTHER HEADSET". IT IS A COMPLETE SYSTEM DESIGNED FOR ONE THING IN MIND — THE AMATEUR RADIO STATION. THE CREW AT HEIL STARTED FROM ABSOLUTE SCRATCH. AFTER 6 MONTHS OF FRUSTRATION IN LISTENING TO DOZENS OF HEADSETS, WE DIDN'T FIND ONE SET THAT EVEN CAME CLOSE TO THE TEST TEAM'S DESIRE. THEY WERE FOR THE MOST PART TOO HEAVY AND UNCOMFORTABLE,—VERY TIRING IN LONG CONTEST RUNS, THEIR QUALITY WAS NOT VERY GOOD FOR COMMUNICATION RECEIVERS AND WHEN IT CAME TO THE MICROPHONE USED IN THE BOOM, THERE ARE NO WORDS IN THE ENGLISH LANGUAGE TO DESCRIBE JUST HOW AWFUL ALL OF THEM SOUND! ALSO, ALMOST EVERY AMATEUR THAT ATTEMPTS TO USE ANY OF THESE HORRIBLE THINGS DO SOME OF THE MOST INCREDIBLE MODIFICATIONS TO TRY AND MAKE THEM WORK. (EVER SEE A TELEX WITH D-104 HEAD DUCT TAPED TOGETHER?) WE HAVE ALL DONE IT. WE HAVE

THE HEIL HCS STARTED WITH THE MICROPHONE ELEMENT. WE ALL KNOW OF THE GREAT SUCCESS OF THE HEIL HC-3 SO THAT WAS EASY. THEN, WE STARTED IN TO DESIGN THE ACTUAL HEADSET AND BOOM ASSEMBLY. AFTER MANY MONTHS OF MORE FRUSTRATIONS IN TALKING TO AMERICAN MOLDING COMPANIES, WE TURNED TO AN OLD FRIEND IN JAPPAN AND BEFORE LONG, HERE CAME SOME OF THE NEATEST INJECTED MOLD PARTS. WE BORROWED SOME HEADPHONE DIAPHRAM TECHNOLOGY FROM OUR RECORDING STUDIO CONTEMPORARIES AND BEFORE LONG, WE HAD THAT END OF THINGS DOWN PAT. THEN CAME THE BOOM. AFTER SEVERAL DIFFERENT ARRANGEMENTS (NO DUCT TAPE!) AND APPLICATIONS WERE TRIED, WE CAME UP WITH THE HCS. THE BOOM IS VERY LIGHT. IS EASILY REMOVED FROM THE HEADSET ASSEMBLY, SHOULD YOU DESIRE THAT, BUT ONCE MORE WE HAVE BIG PROBLEMS. THE MOLDED END PIECES TO FIT OVER THE END OF THE TUBE WERE ALL TOO SMALL FOR THE HC-3 TO FIT INTO, SO WE WERE FACED WITH DESIGNING AN ENTIRELY NEW ELEMENT TO FIT THE BOOM PIECES - IF THE SIZE AND WEIGHT WERE TO BE KEPT TO THE PROPER REQUIREMENTS. SO, OFF TO THE DRAWING BOARDS, -AGAIN!

WE DRUG OUT SOME OF THE MANY NOTES AND PROJECTS FROM YEARS PASSED WHEN THE HC-3 WAS BEING CONCEIVED. IT WAS BACK INTO THE ANECHOIC CHAMBER TO BUILD A NEW ELEMENT SMALLER IN SIZE. IN CONVERSATIONS WITH THE TEST TEAM MEMBERS, DX AND CONTEST DERATORS AND SERIOUS OPERATORS IT WAS CLEAR THAT WE COLD FILL A BIG VOID BY ACTUALLY BUILDING AN ELELEMENT WITH A SPECIAL RESPONSE FOR THIS TYPE OF OPERATION. NOT THAT OUT HC-3 ISN'T GOOD ENOUGH, BUT IT WAS FELT THAT WE COULD REALLY PIN POINT THIS MARKET EVEN BETTER.

OCTOBER OF 1983 WILL LONG BE REMEMBERED. WE FINISHED THE WORK ON THE HC-4. THEN CAME THE HARD PART - AS ALWAYS....WHAT DO WE CALL IT? AFTER SEVERAL ROUNDS ON 75 METERS WHERE THE AUDIO IS MOST IMPORTANT,

THE ANSWER WAS SIMPLE. "THE DX DREAM MACHINE!" SO THE HEIL HC-4 IS IN FULL SWING AND WILL HIT THE MARKET IN MARCH OF 1984. IT WAS MADE TO FIT BEAUTIFULLY INTO THE BOOM OF THE NEW HEIL HEADSET AND WE SOLVED MANY PROBLEMS WITH THIS ONE LITTLE PRODUCT.

THE HCS SYSTEM CONSISTS OF THREE MAJOR COMPONENTS:

THE BM-10 BOOM HEADSET THE RPS POWER SUPPLY THE HCS INTERFACE

THE BM-10 IS UNIQUE IN ITS DESIGN. WEIGHING ONLY 8 02. WITH THE COMPLETELY ADJUSTABLE MINI BOOM SET UP, IT IS A NATURAL FOR LONG CONTESTING. THE FOAM EAR PIECES MAKE THEM VERY COMFORTABLE, PLUS CLOSING OUT MUCH OF THE OUTSIDE NOISES — A MUST FOR MULTI OP STATIONS. IF THE OPERATOR SO DESIRES, HE CAN REMOVE ONE OF THE EAR PIECES COMPLETELY, BY REMOVING THE SMALL BLUE 'BUTTON' AT THE TOP FO THE STAINLESS STEEL BAND AND SLIDING THE HEADSET OUT THROUGH ITS TRACK. SHOULD YOU DESIRE ONLY ONE EAR PHONE — THAT'S POSSIBLE.

AFTER A TERRIFIC AMOUNT OF ENGINEERING, WE FELT THAT AN DUTBOARD POWER SUPPLY WOULD LOWER THAT ALL IMPORTANT SIGNAL-TO-NOISE RATIO. ALSO, WE FELT THAT SINCE THE INTERFACE CONTROLS WILL BE USED RIGHT IN FRONT OF THE RADIO IN LINE OF SPILLED COFFEE CUPS, BEER, ETC. HAVING 110 VOLT LEADS RUNNING AROUND AT THAT POINT WOULDN'T BE TOO NEAT OF AN IDEA, SO WE REMOTED THAT POWER SUPPLY AND FEED 100 MILLIAMPS OF PLUS AND MINUS 15 VOLTS. THIS WORKS OUT REAL WELL.

THE SYSTEM CONTAINS A DUAL CHANNEL 2 WATT AUDIO AMPLIFIER WITH A TWO INPUT MIXER - OPERATIONAL IN A DUAL CHANNEL (STEREO) OR SINGLE (MOND) MODE. THE TWO WHEN USED IN THE STEREO MODE, A VHF RADIO (RCV #1) CAN BE BROUGHT UP INTO THE LEFT PHONE AND AN HF RADIO (RCV #2) CAN BE HEARD IN THE RIGHT. THE LEVEL OF THESE CAN BE ADJUSTED BY THE TWO CONTROLS ON THE FRONT PANEL. YOU ALSO HAVE AN ACTIVE EQUALIZER ON THE FRONT PANEL THAT ALLOWS YOU TO ROLL OFF SOME OF THE HIGH FREQUENCY ENERGY THAT ACCOMPANIES MANY NOISE SOURCES. ADJUST THE EQUALIZER TO GIVE YOU COMFORTABLE LISTENING.



THE HEADSET HAS TWO PLUGS. A STANDARD SINGLE PHONE JACK WHICH COMES FROM THE MICROPHONE AND PLUGS INTO THE "MIC 1" JACK ON THE BACK PANEL. THE STEREO TWO CIRCUIT JACK IS THE LEFT AND RIGHT HEADSET. IT PLUGS INTO THE "PHONES I" JACK ON THE BACK PANEL. SHOULD YOU DESIRE A SECOND SET OF HEADSETS FOR YOUR LOGGER TO MONITOR THE OPERATIONS, HIS BM-10 HEADSET BOOM WOULD PLUG INTO "PHONES 2" AND "MIC 2 IN". THE LOGGER WILL BE ABLE TO HEAR EVERYTHING. SHOULD HE MAIN OPERATOR DESIRE TO TALK TO THE LOGGER, PUSHING THE LONG HANDLE "INTERCOM" SWITCH ON THE FRONT PANEL WILL BREAK ALL OF THE RADIO CONNECTIONS AND CONNECT THE TWO HEADSETS TOGETHER. A SMALL TRIM POT MOUNTED ON THE P.C. CARD (IMMEDIATELY BEHIND THE "RCVR 2" FRONT PANEL POT) WILL ALLOW LEVEL ADJUST OF THAT INTERCOM SYSTEM. A "TAPE OUT" JACK IS AVALABLE FOR TAPING ALL INFORMATION FROM EITHER RCVR INPUT JACK. CAN ALSO BE USED TO FEED ANOTHER MONITOR AMPLIFIER SUCH AS THE HEIL SS-2. THIS IS KIND OF NEAT. YOU CAN MIX BOTH RADIOS DOWN INTO THE ONE OUTPUT AND THEN COME OUT OF THE TAPE OUT JACK WITH A MONO MIX OF THESE TWO SIGNALS. OF COURSE, FOR CONTESTS AND RARE DX CONTACTS, THIS MAKES A NICE ADDITION TO THE STATION IN BEING ABLE TO RECORD YOUR RECEIVER AUDIO WITH GREAT QUALITY. THE STEREO 1/4" MICROPHONE INPUT. THIS JACK IS THE OUTPUT OF THE HC-4 ELEMENT IN THE BOOM. YOU COULD PLUG THE BOOM STRAIGHT INTO YOUR TRANSMITTER MICROPHONE INPUT. THIS JACK IS THE OUTPUT OF THE HC-4 ELEMENT IN THE BOOM. YOU COULD PLUG THE BOOM STRAIGHT INTO YOUR TRANSMITTER AUDIO IN, BUT YOU WOULD HAVE NO INTERCOM CONTROL., SHOULD YOU DESIRE THAT. THIS MIC I OUTPUT JACK IS A STEREO 1/4" PHONE PLUG. TIP = F.T.T., RING = AUDIO AND SLEEVE IS GROUND, RIGHT BESIDE THIS JACK IS A "P.T.T." JACK WHERE YOU CAN PLUG A FOOT SWITCH OR WHAT EVER TYPE OF CONTROL YOU WOULD LIKE TO KEY YOUR TRANSMITTER P.T.T. LINE. OF COURSE, IF YOU USE V.O.X. YOU WILL NOT WORRY ABOUT IT, BUT IF YOU DESIRE THE FOOT SWITCH, IT IS THERE.

ONE OTHER LITTLE NIFTY FEATURE. SOME ICOM RADIOS MUST HAVE A PRE AMP TO DRIVE THEM AS ICOM BUILT THE FIRST AUDIO STAGE INTO THEIR DESK AND HAND MICS. WE HAVE BUILT IN A PRE AMP SECTION. BUT IT IS NOT CONNECTED. TO "INSERT" THE PRE AMP INTO THE MIC LINE. REMOVE THE JUMPER THAT CONNECTS THE "MIC 1 IN" TO THE "MIC 1 OUT" JACK. LISCONNECT IT FROM THE "IN" JACK AD SOLDER IT TO THE PIN STICKING OUT FROM THE P.C. CARD RIGHT BESIDE THE "MIC 1 OUT" JACK. THIS WILL INSERT A 10 DB PRE AMP IN THE MIC LINE AND SHOULD DRIVE ICOM SHOULD IT NOT HAVE A PRE AMP BUILT IN. A PRE LEVEL ADJUST IS LOCATED RIGHT BESIDE THAT PIN ALONG SIDE THE PRE AMP CHIP.

YOU MAY DESIRE TO GROUND THE CHASSIS OF THE HCS SYSTEM RIGHT TO THE CENTRAL GROUND SYSTEM OF YOUR STATION. USE ONE OF THE SIDE SCREWS THAT HOLD THE TOP COVER ON - PREFERABLE THE ONE TO THE RIGHT NEAR THE STEREO-MONO MODE SWITCH.

WE HOPE THAT YOU WILL ENJOY THE OPERATION OF THE NEW HCS. ONE OF THE MOST INTERESTING AND PERHAPS JUST MAY BE THE SLEEPER OF THE YEAR FOR ALL OF US IS USING THIS IN THE STEREO MODE WITH TWO RECEIVERS AND TWO ANTENNA SYSTEMS FOR A DUAL DIVERSITY RECEPTION SYSTEM. RECENT TESTS ON 160 AND 75 METERS WITH IT HAVE PROVEN FANTASTIC - EVEN WITHOUT PROPER ANTENNAS ON THE SECOND RECEIVER. TRY IT.

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QSLER -- Companion for LOGGER/DUPER. Automatically generate QSL cards from the LOG file produced by LOGGER. \$19.95

HAMBASE -- Full DXCC data base with beam headings, zones, local time and latitude and longitude for all DXCC countries. Search for any country with any valid ITU assigned call. Space for records for 9 band DXCC. Single or double density. \$49.95

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### QSL MANAGERS LIST

Beginning our FIFTH year of publication. We have satisfied subscribers all over the world. Some folks say it pays for itself in postage savings. Updated continuously, published monthly. QSL Managers listed for over 5000 DX stations.

US/VE/XE: OVERSEAS AIRMAIL: \$15 - 12 issues \$25 for 12 issues \$1.75 each \$2.80 each (US\$)

BANDPASS: Call/Frequency/UTC (plus West, Mountain, Central, East Coast)/Date

AP2SQ 14166 14W 21 AP2UR 14008 13E 24 A4XRS 28033 15E 18 A4XYS 14194 04W 21 A4SYF 14194 05E 21 A4XYJ 14196 06W 23 K6UA/A6 3506 03E 18 (Maritime Mobile) A71BK 14220 13W 21 A71AD 14223 05W.23 BY4AA 3795 10C 17 BY4AA 14195 03M 18 BY1PK 14145 03E 19 BY1PK 14146 01W 22 BY1PK 14145 01C 25 BY4AA 14195 12C 26 CEØFCM/ CEØZ 14070 01C 17 CEØFCM/ CEØZ 14026 14E 18 CEØERY 14197 01E 23 (Easter) W6QL/ CEØZ 14025 02C 21 W6QL/ CEØZ 14218 03E 23 W6OL/ CEØZ 14170 02C 28 CN8MK 28508 19C 18 CN8CX 14015 13E 19 CN8ES 21335 14C 24 CO7FM 21022 00E 24 OH1MA/ CT3 14017 22E 18 CT3BM 28521 19C 18 CT3BM 21292 20M 20 CT3DJ 14031 01E 22 C21BD 14215 07C 19 C21RK 3798 12C 21 KK7K/ DU2 7002 15M 18 DU7EV 21293 23E 20 N7ET/ DU6 21016 00E 22 D44BS 28577 18C 17 EA6BD 7005 07E 24 EA9IB 28500 18C 19 EA9IB 21281 14C 22 ET3PS 14203 13C 22 FB8WJ 14193 13W 20 FB8WJ 14192 14W 21 FK8CE 21018 01E 20 FK8DY 14039 05C 22 FKØAQ 21021 00E 24 FO8JN 28555 01C 22 FO8BI 14018 07E 24 FO8KP 7006 07E 24 FR7BX 14032 13C 17 FRØFLO 14194 14W 18 FR7CV 14218 13C 20 FY7BO 7008 23E 22 HKØHBT 14199 03W 20 HKØBKX 14026 23E 23 HL1CX 7007 14M 19 HL1SF 21037 01E 20 HLØAQJ 21310 13E 20 HL1CG 21027 01E 25 JYØDJT 14025 23E 21 JT1BR 14037 13C 22 JW6MY 3798 04E 22 J28DP 28017 16E 17 J28DP 14030 23E 22 KD7P/ KH2 14178 02W 20 KC6DX 21290 21W 17 KX6DS 7006 12E 18 KX6DS 21026 01C 19 KX6OH 14309 03W 22

KX6PO 14309 04C 23

KX6DS 14025 03E 25 N2EDQ/ KH7 14283 04C 22 AH8A 14355 18C 20 AH9AB 14196 12E 22 OD5TG 14207 14W 18 OX5AC 14227 01C 21 OZ1FJB/ OX 14052 01E 21 OY8R 14185 13C 22 P29FG 14204 14W 18 P29F 14192 12E 22 PJ3JB 7003 03E 23 TA2KT 21031 16M 21 TF31RA 14003 14E 18 TL8ER 28019 13E 22 TL8ER 21019 21C 24 TR8DR 28023 14E 24 F6BFN/ TT 28020 14E 17 F6BFN/ TT 21335 20C 18 T77V 28546 16E 20 UK1PGO 14242 07E 21 (F.J.L.) UA90FI 7009 23E 22 UAØZCQ 7008 11E 22 (Zone 19) UA9YAN 7006 11E 23 UG6AB 14036 13C 18 UK6GAA 14232 14W 21 UK6GAA 14004 13E 22 ULTPCM 14033 15M 19 UKTPAL 14026 03E 20 ULTPBH 14020 02C 21 ULTVBA 14028 01E 24 UL7IBZ 7001 01E 25 UK7PAL 14194 12C 27 UK8EAB 21030 16M 20 UK8QAC 14046 03E 18 UK8EAB 14012 01E 25 UK8QAO 14019 01C 24 UH8HCA 14004 23E 24 UK8EAB 21025 13C 25 UI8ADF 14034 03M 18

UI8ADF 14016 02C 24 ZK1XL 10105 05E 20 ZK1XL 28020 22E 22 ZK1XL 7011 04C 23 ZL3GQ 1823 11E 22

UI8ADF 14016 02C 24
UK8JBD 14201 13W 18
UK8JBD 14212 13C 19
UK8JBD 14212 13C 19
UK8JBD 14201 13C 21
UK8JBD 14200 14W 21
UM8MAH 14028 15M 19
UM8NAW 7006 02E 20
UM8MBA 14017 02C 21
UK8MFA 14198 13C 23
UK8MAA 14198 13C 23
UK8MAA 14198 13C 23
VK5BC 1819 11E 22
VK5BC 1819 11E 22
VK9NS 7008 12E 21
VK9NS 7008 12E 21
VK9NS 7009 03E 23
VP2MKY 7009 03E 23
VP2MKY 7009 03E 23
VP2MKY 7009 03E 23
VP2MKY 7009 03E 23
VP3MF 14042 14C 20
VP3MF 14042 14C 20
VS5TT 7008 13M 23
VR5TT 7007 14M 24
(Yes, V85, same
as VS5)
VS6DX 14226 16C 18
VU2BEJ 14225 02C 22
VK1GAJW/8 12032 17C 24
VK1GAJW/8 10102 05E 20
UK8MAA 14198 13C 23
UK9NS 7008 12E 21
UK9NS 7008 12E 21
UK9NS 7008 12E 21
UK9NS 21030 03E 22
UK9NS 7004 02C 23
UK9NS 7008 12E 21
UK9NS 21030 03E 22
UK9MS 7004 02C 23
UK9MS 7006 02E 20
UK9MS 7006 02E 20
UK9MS 7007 14M 02C 03
UK9MS 7008 12E 21
UK9MS 7007 14M 02C 03
UK9MS 7008 12E 21
UK9MS 7007 14M 02C 03
UK9MS 7008 12E 21
UK9MS 7007 14M 02C 03
UK9MS 7008 12E 21
UK9MS 7007 14M 02C 03
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UK9MS 7008 12E 21
UK9MS 7007 14M 02C 03
UK9MS 7008 12E 20
UK9MS 7007 14M 02C 03
UK9MS 7008 12E 02
UK9MS 7008 12E 02
UK9MS 7008 12E 02
UK9M ZL70Y 21290 00E 18 AS VS5)

VS6DX 14226 16C 18

VU2BEJ 14224 14W 21

VU2GI 14005 02C 24

VU3GI 14005 05C 24

VU3WTM 14307 05W 23

XU1SS 14175 12E 19

YBØARU 7006 14M 23

YI1BGD 14213 14M 18

YI1BGD 14216 14W 19

YI1BGD 14220 14C 21

YJ3RG 14174 05W 23

OE8HFL/

YK 21309 16E 20

YJ3BH 21335 18C 23

ZD8TM 28040 16E 17

ZD8TM 28040 14E 24

ZK1DA 28596 18E 19

ZK1XL 3505 11E 19

ZK1XL 10105 05E 20

YC1 3518 04E 18 7Q7LW 3505 04E 14 7Q7LW 3518 04E 18 7Q7LW 28509 16M 18 7Q7LW 21292 20M 20 7X2LS 28596 18C 19 7X2CE 28548 16E 20 8RlJ 7009 02E 20 9J2GK 28027 17E 17 9J2JE 21335 18C 21

> Please mail reports to reach PO BOX 873, Vernon CT 06066 by Wednesdays, or phone:

9M2HB 14226 16W 17

9N1MM 14215 01C 20 9V1VP 7007 14M 18

9V1TL 14029 15M 20 9V1VP 14195 17E 20

9X5WB 28608 19C 18

203-742-7124

(24 hour line).

Best contributor of information each month wins a free year of TDXB.



YIIBGD OPERATORS (1-r) Majid, Kamal, Arshad, Saad. Photo courtesy WA2VUY.

#### CALENDAR

ANTARCTICA ATØA by VU2IF ended last week VP2KF by G3VPW ended last week, also FALKLANDS YASME W6QL/CEØZ on NOW, Juan Fernandez

C5/9J Senegal/Gambia by DJ6SI CW only NOW to Apr 8

UGANDA G8GRN/5X in doubt; Issue 232

CHINA VE7BC from one of the BY stations, this week N COOKS ZKIXL continues another week or two by K60ZL

F6AJB replacing F6BFN/TT soon; I 232 CHAD XUISS reportedly Sundays only; I 232 CAMBODIA

CANTON Still looking for T31/KH1 by T3ØAT...rumored

MONTSERRAT VP2M by W8s AP, MMB, HAV, HAU, Apr 9-20

CONVENTION THE BIG ONE, at Visalia, CA, Apr 13-15; no

other info received at TDXB, sorry.

FAROE IS By LA5VAA, LA5DW, and LA9PCA (OY7A), Apr 16-26

K7RLS/J8 Apr 18-21, 80 Meters ONLY ST LUCIA CRETE DF4RD/SV9 Apr 29-May 13; QSL DF2RG SPRATLY 1S2CK by DU1CK Apr 30-May 7; I 232

USSR New-callsign structure May 1; complete infor-

mation next issue

TAIWAN By JAs, Apr 28-May 6; I 232

RUMORED Desecheo in May, Andamans early summer, ZS2M

K3UOC SCHEDULE Apr 14-17, K3UOC/PJ6, SABA

Apr 17-20, K3UOC/PJ5, ST. EUSTATIUS Apr 20-22, K3UOC/PJ7, ST MAARTEN Apr 27-29, K3UOC/PJ2, CURACAO

Apr 29,30, K3UOC/PJ3, ARUBA

Apr 30-May 1, K3UOC/PJ4, BONAIRE

KEIK, KAIBU, KBIBE, W4VQ, W7HRD, WB5ZKR, KØCVD, N4NO, W5YH, WB8ZRL, WD5AAM, KR1G, K5TSQ, LA9PCA, K7RLS, WØBW, KM9J, KIMEM, K4BAI, XEIXMT, K8EM, K6IR, WØJRN, N2KK, K8GG, N1CWU, W9DRL, KE7X, N6JM, K9AJ, KP2A, DX Family Foundation (Japan), IØIJ, G3ZAY, DXPress, K1SA, NICBM, NN4R, WØRIC, YASME, KH6BZF, W6SZN, DA2ER

ROBERGE DRIVE WILLIAM N. PEDERSEN

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