# The DX Bulletin

America's Oldest Weekly Amateur Radio Publication
 ISSUE 321 JANUARY 31, 1986

PROPAGATION: Jan 29, Low Normal; Jan 31-Feb 4, High Normal; Feb 5, Low Normal; Feb 6, High Normal; Feb 7, High/Above Normal; Feb 8, 9, High Normal; Feb 10, Low Normal. TNX N4XX.

Flux (81)	Flux (82)	Flux (83)	Flux (84)	Flux (85)	Date	Flux 1	A 986	К
160	158	143	101	77	1/17	77	7	1
167	173	139	98	77	1/18	76	8	2
171	175	132	98	77	1/19	73	3	2
167	173	125	97	78	1/20	72	11	3
162	169	120	97	91	1/21	70	15	3
161	159	117	107	87	1/22	70	13	3
162	153	119	114	88	1/23	69	17	2

#### FROM KH6BZF REPORTS

SUNSPOT NUMBERS for the past year: Jan 1985, 16.5; Feb, 16.1; Mar, 11.9; Apr, 16.1; May, 27.4; Jun, 24.2; Jul, 30.8; Aug, 10.4; Sep, 13.9; Oct, 18.5; Nov, 16.6; Dec, 17.2. Lee says the predicted sunspot numbers for January to June 1986 are expected to drop from 10 in January to 5 in June.

LAST ISSUE we published a report that Stew Perry, WIBB, had died; we are happy to say that report was in error and that Stew is very much alive. The rumor apparently began in a publication of the Quarter Century Wireless Association (QCWA). TDXB apologizes to Stew and to his family for this inexcusable error.



X4XKC visits with his QSL manager, KAlXN, in Western Massachusetts. Photo by WAlZDE.

#### NOTES

- $\bullet$  W8ZF signed PJ2FR back in the  $\underline{\text{CQ}}$  WW CW Contest, not P49Z as expected.
- W7ULC reports having worked 77 DXCC countries on 10 MHz. The Voice of America transmitter in Washington has been heard on 10.134 and 10.145 MHz.
- TALE has been showing on 3594. Don't forget always to look for SSB DX anywhere between 3550 and 3750 (and for VU stations around 3890).
- The correct acronym for the Western Washington's DX Club's mini-contest (Issue 319) is NAANY, which stands for "Nightmare Alex's Alpha-Numeric Yearly" award.
- P29JS reportedly worked all 40 CQ Zones after January 1 before leaving for Norfolk Island. If we know Jim, he will work all 40 again from VK9NS before long.
- I5NPH is said to have a 3 element 80 Meter yagi on an 80-foot boom, 140 feet high. You can probably hear him.
- PJ2/WlBIH will sign PJ9J during the ARRL DX Contest, both modes. He used to be PJ9JT. KQ2M says he is bringing his P4 Aruba licensing paperwork back for Newingon to look at.
- EI9FG/OD5 will be in Lebanon for three months; he's with the United Nations forces there.
- JH5EES goes to Marcus Island (Ogasawara) again early in February; he has been there several times the past six months or so but we have seen no reports on him from anywhere in North America.
- K2LE is on from St. Kitts as K2LE/V4 now to Feb 4; K4FW is reportedly on from Nevis as K4FW/V4, also.
- K2PK says he's still waiting for CEOAA cards, after almost 16 months. Best bet still seems to be via the Radio Club or CE3ESS.
- Despite political unrest in Uganda, 5X5GK continues active, almost exclusively on list operations. He will give you a CW contact, on request.
- $\bullet$  K6HCV rumored to operate /J88 St. Vincent, starting Feb 10 for several weeks.
- The S90AS operators (Issue 320) are now on from Togo, signing 5V7AS for about two weeks; see S90AS in the Bandpass for spots they like to operate. They next go to Benin, TY, for another two weeks, starting Feb 5.
- ON4UN used his new U.S. extra class license to sign AA40I/PA from the Netherlands last week. John has an article in the latest issue of <u>Radiosporting</u>, and says his revised "80 Meter DXing" book should be published soon, in both English and German.
- In our 1985 summary (Issue 317/318) we said that the April 1985 Clipperton group did not go to Revilla Gigedo because a Mexican group had a license for the same time, but that the Mexican group did not operate. We were wrong ... the Mexicans were on, signing XF4MDX, for about 30 hours.
- N6EK/C6A will be on from the Bahamas Feb 13-16, including the ARRL DX CW Contest. He then goes to the Turks for N6EK/VP5 Feb 21-Mar 4, including the CQ 160 and ARRL DX Phone Contests. He will operate all bands in both the ARRL contests.

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#### 1986 TEXAS ARMADILLO RUN SCHEDULED

JUST ONE YEAR AGO we announced that the Texas DX Society would be sponsoring another "Armadillo Run" this year, in honor of the Texas Sesquicentennial (150 years of statehood). The dates for the event have been announced: May 3/4 during the County Hunter's Phone Contest, and July 26/27 during the County Hunter's CW Contest.

The goal is to activate, over the two weekends, all 3077 counties in the U.S. Actually, there are only 3076 counties in the U.S., but Texas has declared the creation of an "Armadillo County" in honor of the Sesquicentennial. Governor Mark White proclaimed that from Mar 2 to Dec 31, 1986, amateurs operating along the Texas Independence Trail may state that they are operating from Armadillo County Texas.

Clubs are now being asked to contact the TDXS, namely Armadillo Run high almighty potentate K5RC, to offer their services for this formadible task. A number of regional coordinators have already signed up, but more are needed. An SASE to Tom Taormina, K5RC, 12610 Barbizon, Houston TX 77089, will get you more information and possibly a copy of the just-published first issue of the "Armadillo Press."

#### NOTES

- ullet Harry Perrine will operate KC2RS/VP5 Feb 13 to Mar 10, with side trips to Haiti and the Dominican Republic. He'll operate the CQ 160 Phone Contest Feb 21/23 and the ARRL DX Phone Contest from VP5.
- DX NL says that CEOERY's sons, CEOGYT and CEOGYS, are active from Easter Island; no reports here.
- YU3KI/5NO will be in Nigeria for several months, and is trying to get an antenna up for 160 Meters.
- DF6FK (one of the survivors of the Spratly expedition disaster in 1983) will sign T32BB until Feb 5.
- o OH2BH and OH1JT are very active from Madeira, site of one of the No. Calif. DX Foundation's beacons (CT3B). 40 Meters has been very good recently, and we heard CT3BZ running Europeans at 1800Z the other day; we could copy a gigantic pileup of Europeans at that time.

In fact, some on the East Coast have been working into Europe and Africa on 40 at high noon, 1700Z!

• DXPress has a rumor that VP8BFC is on his way to S. Georgia; CE9HOP is active from the S. Shetlands, and AZIA is finally appearing from the S. Orkneys, being reported on 14.175 at 0230Z and on 14.025 around 2300Z.

- G4IUF/C53 is on from the Gambia now until Feb 6
- Conditions for the <u>CQ</u> 160 Contest Jan 25/26 were very good, with many people working all continents, primarily thanks to 4X4NJ Asia contacts.
- W5YI Report notes that 1986 is the 50th anniversary of the 6L6 tube. This editor is not the only person whose first tramsmitter was a 6L6 oscillator (we built ours in 1961). Our rig used the ubiquitous power supply built from TV parts, a surplus output coil, and we had one crystal, for 7160. We worked 40 states with it before moving up to a DX-20.
- ... that reminds us of one long-standing joke around ARRL Headquarters: about the guy who built a TV set out of parts from old ham transmitters. But you probably had to be there.

Several years ago, TDXS put all 254 Texas counties on the air, on 20 CW, over a summer weekend; it was great fun trying to work them all, and the nationwide Armadillo Run looks to be one of history's great operating events. We plan to provide updates here, as things develop.

On a related note, February CQ records that All U.S.A. Counties Award #496 went to Charles Loftis, WDX4KEF, a shortwave listener. The All Counties Award is certainly an achievement, especially when you consider that only 500 have been issued, compared to thousands on the DXCC Honor Roll and thousands more having 5-Band DXCC. It must have been especially difficult to hear 3076 counties, not being able to transmit to make skeds, confirm information, etc. Congratulations, WDX4KEF!

#### 28 MHZ BEACON BAND

by Martin Atherton, G3ZAY

THE FUTURE of the 28 MHz beacon band has recently been discussed by the IARU Administrative Council. The emerging philosophy is that after 1/1/1990 beacons operating in the current band of 28.200 -.300 will no longer be protected by the band plan and a new protected beacon band of 28.190 -.200 will be phased in.

The aim is to develop a number of time-shared systems, similar to that currently operating on 14.100 MHz (NCDXF sponsored) with one frequency reserved for a worldwide chain, and the other frequencies (possibly with as little as 1 KHz channel spacing) used for regional chains.

There is clearly much merit in these proposals, as they make very efficient use of the band and release a substantial amount of "new" spectrum. However, disadvantages include:

- 1. Having to wait many minutes for a particular beacon that you are interested in to turn on.
- Being unable to monitor a propagation path continuously.
- 3. CW filters will be needed to separate beacons if they are 1 KHz apart.
- 4. Beacons will be unable to fit lengthy information transmissions into their time slots.
- 5. Unsupervised beacons (e.g., VP8ADE on Adelaide Island) are difficult to maintain in terms of time and frequency tolerances.
- 6. Expensive control equipment and possibly new transmitters will have to be found to replace existing beacons.

Are the emerging IARU proposals adequate or do we need a small additional sub-band for continuously operating beacons? For time sharing systems, what is the best combination of transmission time per beacon, and best number of beacons per channel? Please send your comments to  $\frac{\text{TDXB}}{\text{BOX}}$  or directly to Martin Atherton, G3ZAY, P0  $\frac{\text{BOX}}{\text{BOX}}$  146, Cambridge, England.

#### 160 METERS

3A2GL 1839 0325 21 MA 4X4NJ 1833 0400 21 MA CO2PY 1834 2355 17 FL CT1BCM 1836 0131 21 FL EA6NB 1837 0622 12 AL EA800 1833 0022 13 AL EA8QO 1834 0607 21 MI HH7PV 1828 0240 18 CO HKOBKX 1834 0130 21 FL IT9ZGY 1834 0312 21 FL J88AR 1832 0200 14 MA JR1EBE 1909 1410 18 CO KW0A 1833 0640 13 AL LA2UA 1835 0700 14 MA OY7ML 1832 0900 19 MA PA/AA40I 1832 2215 13 MA PA/AA40I 1834 0705 14 MA (ON4UN OP) PAUHIP 1829 0129 21 FL PJ2/W1BIH 1833 0138 21 FL SM7BIC 1835 0610 17 FL T77C 1846 0540 21 IL TK5VN 1838 0622 21 IL UA1DZ 1834 2250 17 FL UA1DZ 1835 2240 17 MA UA10T 1832 0250 20 CT UD6DC 1832 0215 21 MA UZ6LWZ 1839 2338 17 FL VP2VA 1833 0735 14 MA VP2VA 1833 0600 16 MA ZB2J 1836 0720 14 MA

#### **80 METERS**

4U1ITU 3800 0305 16 NH 4U1UN 3775 0521 11 OR 5NO/JG1FVZ 3795 2115 13 MA 5NO/YU3KI 3501 0025 18 FL 5NO/YU3KI 3501 0010 21 MA 7X2LS 3793 0110 20 MA 8P9AF 3789 0350 16 CO 8P9AF 3790 0500 16 MA A4XJZ 3507 0217 23 MA A4XJZ 3795 0314 23 MA AHOE 3502 1545 17 WA BY1QH 3506 1530 17 WA BY1QH 3506 1520 18 WA BY1SK 3502 2215 20 MD C31UA 3797 0420 18 MA C31UA 3797 0407 18 NH C6A/G3YCM 3794 2347 22 CT CEOZIJ 3796 1020 21 MA CEOZIJ 3797 1257 21 IL CT3/HB9CRV 3507 2215 16 FL CU1CB 3798 2253 18 MA DU9RG 3794 1534 20 WA EA6NB 3512 0637 18 FL EA8ABR 3504 0642 17 FL EA800 3502 0023 18 FL GD4BEG 3504 0719 13 OR H44IA 3799 1058 21 MA HL50C 3505 1306 16 AL HV2VO 3795 2140 20 MA JT0XC 3505 1425 12 CO JT0XC 3505 1428 12 OR JY9RL 3799 0341 18 NH LAOXC 3502 0743 13 OR OA4ZV 3793 1051 21 MA OD5/EI9FG 3791 2122 13 MA OY7ML 3506 0840 19 MA P4/KO2M 3798 0047 23 MA P4/KQ2M 3796 0300 16 CO

P4DO 3794 0314 19 MA PJ2LS 3503 0624 18 FL PZ1DT 3506 0300 15 FL RL8PYL 3506 0300 15 FL S90AS 3504 0205 14 MA S90AS 3644 2250 18 MA S90AS 3650 2320 13 MA S90AS 3792 2350 13 NH SM7DLZ 3514 0727 13 OR TA1E 3594 0600 19 MA UA0ZCQ 3507 1230 20 MA UG6GAW 3501 0405 14 MA UL7TCU 3505 0220 20 MA U05GQ 3505 0623 18 FL V2ACW 3505 0010 18 FL VK6HD 3509 2155 19 MA VK7AE 3799 1058 22 MA VK9LM 3508 1210 18 MA VK9LM 3799 1255 21 IL VK9LM 3800 1425 11 OR VP5EE 3799 0257 20 MA VS6DO 3794 1145 18 MA YBOJH 3793 2130 20 MA YBOWR 3792 2238 19 MA YBOWR 3792 2210 19 MA YBOWR 3795 1440 18 CO YD1LBY 3503 1055 18 MA ZL80Y 3513 0645 18 FL

#### 40 METERS

3B8CF 7008 0200 14 FL 4K1ZZ 7002 2100 14 MA 4X4NJ 7003 2223 17 MA 5B4GA 7005 0228 16 FL 5NO/YU3KI 7013 2300 15 FL 5R8AL 7002 1805 20 MA 5R8AL 7005 0245 11 PA 817AP 7019 2300 20 OH 8Q7AP 7018 2230 20 CT 9H1BB 7003 2305 14 MA 9M2AX 7004 2340 17 CO 9M2AX 7005 1030 18 MA 9M2AX 7007 2330 15 MA A25/W6KG 7002 1940 20 MA C31NP 7001 0145 12 PA CE4IDY 7014 0420 15 CO CM8AR 7006 0420 15 CO CP8AK 7002 1022 18 AL CT3BZ 7002 0133 23 MA CT3BZ 7002 1800 24 EU DU9RG 7087 1100 24 MA DU9RG 7094 1313 12 MD EA8BLC 7004 0148 17 FL HC5NAI 7002 0034 17 FL HKOBKX 7009 0253 12 MI J28EG 7004 2215 14 MA J28EG 7004 2239 14 FL LU8DYH 7011 0420 15 CO OY7ML 7002 2325 13 MA P4/KO2M 7006 0300 14 CO RL8PYL 7012 2234 18 AL TK5EL 7025 2308 18 FL TR8DR 7003 2305 16 MA TR8DR 7003 2230 16 FL UAOTO 7001 1248 19 MA UA9MEA 7002 1808 20 MA UG7GWI 7002 0215 20 MA UG7GWI 7002 0211 16 FL UG7GWI 7005 1328 18 AL UH8EA 7005 1306 19 MA UH8EA 7010 2231 18 AL UJ8JMM 7014 0250 20 MA UV100 7004 0341 15 FL

UZ9CWW 7005 1256 18 MA V44KAC 7168 0329 19 MA VK3MR 7008 1900 24 CT VK9LG 7005 1300 10 AL VK9LM 7004 0923 19 MA VP2V/KX2Y 7015 0039 17 FL VP2VEG 7009 0145 17 FL VS6CT 7087 1100 24 MA VS6DO 7003 0905 19 MA VU2TTC 7005 0128 17 FL VU2TTC 7002 1220 20 MA VU2TTC 7003 1800 20 MA YB2BNJ 7006 2250 16 MA YB2BNJ 7007 2210 17 MA YB2BNJ 7006 2249 16 FL ZS1HV 7004 0015 17 CO

#### 30 METERS

SM5ATK 10103 1633 14 OR SV0AH/5 10103 2125 18 MA

#### 20 METERS

3D6PS 14189 2025 18 MA 3Y9WT 14197 1425 12 CO 3Y9WT 14197 1420 12 PA 3Y9WT 14197 1327 12 MD (ANTARCTICA) 4U1UN 14014 2012 18 FL 4U1UN 14025 1318 18 MA 5H3ZR 14007 1940 19 MA 5NO/YU3KI 14012 2105 18 MI 5N8KBM 14186 2140 19 RI 5R8AL 14157 1750 10 PA 5T5ZB 14010 2226 18 MA 5V7RW 14224 2115 18 RI 5X5GK 14183 1843 11 PA 5X5GK 14183 1800 25 CT 5Z4DU 14183 1930 11 PA 5Z4DU 14196 1935 19 MA 5Z4DU 14813 1945 9 PA 5Z4JD 14288 1900 20 RI 5Z4MR 14200 2040 20 MA 6T2MG 14178 2110 12 PA 6T2MG 14178 2103 12 MD (SUDAN) 6W1CK 14183 1815 14 PA 7X2LS 14186 1830 14 PA 9J2DP 14183 1830 9 PA A22DP 14132 1830 9 PA A25/W6KG 14183 1925 18 MA A25/W6KG 14013 2018 16 MI CE9AM 14210 2258 18 NH CE9AM 14210 2218 12 MD (ANTARCTICA) CN8LS 14200 2:000 21 RI EA8BEX 14025 1344 18 FL FR4DA 14203 2025 18 MA FR4ZD 14027 1854 18 FL

FR4ZD 14189 1925 18 MA FR4ZD 14194 2100 18 RI GD0BCJ 14004 1500 18 FL H44IA 14032 2154 18 AL HB0CZS 14002 1500 18 FL HZ1HZ 14025 2020 9 PA J28EM 14183 1740 13 PA JW5E 14186 2000 13 MA JY9VQ 14270 1257 17 MA KC4USX 14172 2132 18 MA OD5/EI9FG 14025 1530 20 MA P29KJ 14030 2210 19 FL P4/KQ2M 14017 2323 14 OR P4/PAOFM 14156 2210 16 FL PZ1AV 14010 2027 16 MI S83H 14219 1922 20 RI S90AS 14001 1534 18 MA S90AS 14008 2315 15 MA S90AS 14007 2345 15 PA S90AS 14008 1832 18 FL S90AS 14016 1839 4 OR S90AS 14015 1820 14 PA S90AS 14014 2138 18 AL S92LB 14179 2022 21 RI S92LB 14183 1915 12 MD TF1WS 14167 1316 18 MA TR8DR 14213 2148 20 RI TR8RAL 14161 2017 19 MA TR8RAL 14160 2045 18 MA TU2CH 14014 1933 18 FL TU2CV 14015 1940 19 MA TU20X 14010 1919 18 FL TZ6FE 14227 2247 13 NH UD7DWA 14034 1249 13 GA UD7DWA 14026 1317 15 AL UV100 14027 1300 17 FL UV100 14020 1818 18 FL VK3XB 14025 2210 15 PA VQ9QM 14021 1450 20 MA VU2MAC 14211 1524 20 RI VU2VIT 14040 1350 17 FL YB2BNJ 14026 2307 15 FL Z21BY 14200 2040 20 MA Z6FE 14227 2151 20 RI ZD7SE 14183 1830 14 PA ZD9CI 14187 2200 16 FL ZP5XDW 14029 2222 14 FL ZS6USA 14180 1909 20 RI

FR4ZD 14020 2030 18 AL

#### 15 METERS

ZS5BK 21025 1550 18 MI

### CONTRIBUTORS

KAIBU, KEIK, KAIXN, WIHX, WIWY, KIKP, KV8Q, KIMEM, G3ZAY, KC2RS, W3AP, WB9HAD, N7EF, W3FDP, N6EK, K3RR, K2PK, KD7SO, N4NO, AE1H, W4VQ, K7ZR. 28CT, K6IR, N4KG, K4BAI, W4BAA, KAIPL, W7ULC K7VAY, WB9CIF.

First Class

AFRICA

ANTARCTICA ARMADILLO RUN

BAHAMAS -C6A

BENIN -TY

CAMEROON-TJ

CAMBODIA-XU

CAYMANS-ZF

CHATHAM-ZL7

CHAGOS

CHINA-BY

CURACAO-PJ

CYPRUS BASES

FALKLANDS -VP8

FR JOSEF LAND

GRENADA-J3

ARUBA-P4

## The DX Bulletin

.A .S .U Andover, CT 06232

## **FIRST CLASS MAIL**

Australia

AMHERST NH 03031 ROBERGE DR MIFFIYW W PEDERSEN, KMIC (1086)

THE DX BULLETIN

CALENDAR

ISSUE 321

MAURITANIA

MONGOLIA-JT

MONTSERRAT-VP2M

OGASAWARA -JD

P.N.G.-P29

SAO TOME-S9

SO GEORGIA

SO ORKNEYS

ST KITTS

SUDAN-ST

TOGO -5V

TONGA-A35

TROMELIN

SVALBARD-JW

TOKELAUS-ZK3

SO SHETLANDS

ST VINCENT -J88

W6KG/W6QL at A25/W6KG; next stop

ZE, 9J, and CR8 possible through

In May and July; I321. More info K5RC.

A new DXCC country beginning Jan 1; by K9VV group Feb (Issue 319).

By S90AS Italian group starts Feb 5

unknown; left are 70,S8,

April; QSL TO YASME. 3Y9WT there now; I317

BY N6EK FEB 13-16; 1321

TJ1CH try 14.183 at 2000Z

XUISS in JA, Europe, 0900Z

ZF2HI for ARRL Phone; I319

BY1QH, BY1SK active 20 SSB

V09LD try 7005/1300Z long path

ZL7AA no reports recently 1/86

PJ9J by WlBIH for ARRL Contest

W7PHO, 14.225 at 1600Z

by KZ5M in Feb; Issue 320

VP8BGO, VP8WTW active

K4LTA group in Feb; 1320

ZC4MR now on 75 SSB

ZC4HMS, ZC4ESB active; ZC4MR on with

UV100, UA10T very active; Issue 319

IVORY COAST-TU	KlCTK likes 14.183 net at 1900Z					
KERMADEC-ZM8	ZL80Y staying until Aug or Sept					
LEBANON-OD LORD HOWE-VK9	EI9FG/OD5 there several months VK9NM by DJ5CQ until Feb, 1986 he wants QSLs direct there, to Box 5, L.H. Island 2898, Austra					
MADEIRA -CT3	CT3BZ by OHs, ends soon; I319 W2ZZ/CT3 there soon; I320					
MALAGASY-5R	5R8AL try 20, 40 Meters SSB try Fri, 21.330, 16-1700Z					

GUINEA-BISSAU-J5 J5UAG active; need reports

E CAROLINES -KC6 KC6JC back on Ponape, 20/40 M.

TURKS -VP5	By N6EK FEB 21-MAR 4; I321; BY KC2RS FEB 13-MAR 10; I321
TURKEY-TA	TALE on 75; see Bandpass
VIETNAM-XV	KM1R rumored there next month; I320
A CAROLINES	By KZ5M in Feb; I320
W KIRIBATI -T32	T32BB by DF6FK now to Feb 5
160 METER NET	With 4X4NJ, 1400Z, Saturday, 14.337

CONTESTS

CQ 160 SSB FEB 21-23

ARRL DX CW FEB 15/16

ARRL DX PHONE MAR 1/2

5T5SR on 15, 20 SSB and CW; QSL N4GND

JH5EES there on-and-off; no reports

P29JS returns to VK9NS Jan 30; I316

his QSLs are good for DXCC

K2LE/V4 now to Feb 4; K4FW/V4 also

By K6HCV rumored starting Feb 10

5V7AS by S90AS group until Feb 4

A35WZ by NC7K starts Feb 13; I319

Info 1900-2000 KHz, I310

ZK3RW by ZL1AMO in March; I314

FR7AI probable for Feb; I320

S92LB on 14.183 2030-2330Z4

VP8BFC rumored; no reports

ZXOECF reported in Europe

JW5VAA, JW5E, JW0A on; 1310

AZIA on now Issue 321

6T2MG and 6T1YP active

JTOXC (OK1XC) on now, low bands

K1LLN/VP2M Feb 24-Mar 1