

THE EASTERN IOWA DX'ER

WINTER 1991

NEWSLETTER OF THE EASTERN IOWA DX ASSOCIATION

Officers:

Glen Kesselring, KOJGH, President John Lenahan, KORW, V.P. Gary Ernst, KOGVB, Sec./Treas.

The Winter meeting of the EIDXA will be held Friday January 25th, 1991, 7:30 PM at the REC building in Marion (corner of 35th St. and 10th Ave.) A "DX" video is planed for the progam.

OPERATING EVENTS

Jan. 19-21 ARRL VHF Sweepstakes

Jan. 25-27 CQ WW 160M CW test

Jn.26-Fb.3 Novice Roundup

Feb. 16-17 ARRL DX CW Contest

Feb. 22-24 CQ WW 160M SSB test

Mar. 2-3 ARRL DX SSB Contest

Mar. 30-31 CQ WW WPX SSB Contest

THANK YOU!

Let us not forget the debt that we all owe the outgoing officers of the EIXDA, for their time, their imagination and their efforts. Talk about a hard act to follow! So thank you Steve, NUOP, Tom, WB8ZRL and Tom, NCOO!

FROM THE PRESIDENT

(Your Editor never did receive a written item for the newsletter so I made a telephone call and this is what was reported!) At o'dark-thirty last Friday, Glen, KOJGH, was found sitting

upright at his rig, his hand suspended above the keyer, his other on the transceiver dial. His face was dull and lifeless, failing to react to any outside stimulas. While a similar condition has occured several times in the past, this time it was unusual because he failed to react to a DX call. His YF called the local doctor who diagnoised his condition as "Rig-mortis", a catatonic state brought on by working "YA" and "ZA" Slims. At press time no further word is avaliable on his condition and it is only hoped he will be able to preside at the upcoming meeting! (Wonder if he will get an item to me next time?)

FROM THE V.P./EDITOR

You may have noticed an item in the "operating events" that has not been seen in years past, like the Novice Roundup. This is an event I have participated in for as many years as I can remember! This is an opportunity for you to "remember your roots" and give a Novice some help in his contest with a "good fist" at a reasonable speed! I have received many "thank you's" from Novice/Technician ops and the regular disbeleif that anyone with an Extra class call would take the time! Yes, it is hard to "slow down" but its worth the effort. Spend just one night, enjoy yourself and help a fellow contester

Sunspot Maximum Yet?

The January 1991 issue of Sky & Telescope magazine has an interesting article entitled. "Did Sunspot Maximum Occur in 1989?" written by solar physicist Patrick McIntosh of NOAA Space Environment Laboratory Boulder Colorado. According McIntosh, "Solar maximum lasts about four years, during which the monthly sunspot-number index can soar at any time. Attempts to predict the exect time of sunspot maximum, therefore, may be futile. For example, rather than forcasting the peak of Cycle 22 to occur in March of 1990, a better approach would have simply placed maximum somewhere between December, 1988 and December 1992. with the highest monthly sunspot number most likely in the first half of that interval." He explains that it is difficult, if not impossible, to be more specific due in part to "the inherent variability of the Sun itself" and the lack of a "reliable sunspot database [which] includes only a dozen complete cycles". McIntosh concluses as follows, "A century or more in the future, the accumulated observations of sunspots and other solar indexes may also give sufficient data for effective, emperical forcests. Until then, the prediction of sunspot cycles will continue to be more an art than a science."

New Codeless Class License
ARRL Builetin 54 "FCC announced on
December 13, that new Technician
Class license applicants will not have to

demonstrate Morse code proficiency in order to have privileges above 30 MHz. Implementation is expected by February, 1991. The codeless Technician written exam will have 55 questions." (the present exam has 30)

FUTURE SHOCK! BY W3BRZ

Via packet from WB8ZRL DECEMBER 1, 2001, NEW OPERATORS LICENSE ANNOUNCED TODAY! The ARRL and FCC have announced that a new Amateur License will be available this summer. The new "Operators Class" license will replace the existing Extra Advanced, General, Technician, and Novice class license. No code will be required or necessary under the new license, and, further, since knowledge of electronics has been found to be old fashioned and antiquated, no written exam will be given. This is in complete agreement with the Leauge, whose Board of Directors, at last months meeting, rendered an agreement stating that the present written exam. consiting of ten true false questions was much to dificult for the average Ham-to-be! FCC has also announced that this new license will help to increase the Amateur ranks from its present all time low of 5.5 million and to promote more intellegent technicians and engineersa for the Amateru Radio community! The new operators license will be packaged with each "new" amateur transceiver and will contain a number/letter group that will be suitable for a call-sign. Those amateurs already licensed be (continued)

(FUTURE SHOCK continued)

"grandfathered" and required to use the letter "K" or "W" followed by their ZIP code to represent their callsigns. It is hoped that this new move by the Commission and ARRL will increase the number of amateurs to overflowing and allow each American a "fair" chance to become a Ham. Sources at Headquarters have learned that the Commission is planing a medical exemption for all those unable to fill out their new form! Furthere information in February 2001 QST.

MINUTES, OCT. 1990 MEETING

The meeting was called to order at 19:31. After introduction of members and quests, committee reports were given. There was a discussion lead by N4RR on his packet cluster node, WA3TIH discussed possibility of a digipeater/node in the Muscatine area and WCSR reported on the DXAC news. NFOAD was approved for membership. Then the election of officers. KOJGH and KORW were nominated for president, KOJGH was elected, KDRW and WBOZKG were nomi nated vice-president, KORW was elected, KOGVB was nominated secretary/treasurer and ran unapposed and was declared elected. The meeting adjourned at 21:25. The following were in attendance for the October 1990 meeting of the EIDXA. KOGT, KOYZR, N4RR, WDOAWL, WDMJN, NBOH, KCOQ, WOIZ. WADFYG, NGOW, WOWP, WKOI, WEOU, KORW, KOJGH, KOGYB, WOPPF, KEDY, K9UQI*, N9OK*, NOEL*, NOICI, KDORT, KOVM, NYOY, WROU*, WBOB, AAOCB. KAOCWR, WBOZKG, KOAL, WASTIH*, WOSR, WB8ZRL, NCOD, NUOP. *=quest.

TREASURERS REPORT

As of January 1, 1991

na or ownum y 1, 1331	
GENERAL FUND	\$ 540.80
Dues callected	\$ 160.00
Caffee (Oct meet)	\$ 11.18
EXPENSES	
Repeter Coordination	-\$ 5.00
General Fund Balance	\$701.90
REPEATER FUND	
Balance forward	\$ 5.00
Income (contributions)	\$40.00
Balance	\$49.90

NOSM 160M MULTI-OP (Contesting from the Cabin)

NOSM reports 1407 QSOs and 78 multipliers for a total of 109,746 points as the multi-op effort for the 1990 ARRL meter contest. Some of those participating/operating were: Steve, NOSM - host, John, NROE - keeper of the fire. Glen, KOJGH - entertainment committee. NOICI, Grant - in charge of Glen (impossible task!), John, KORW - in charge of "forced air" and asst. to the fire keeper, George, WEDU - the "super duper!" and Jim, "I think I overslept", NOJL. For those of you not in the know, this is the premier annual operating event of rural Davis county and is attended by only the best operators in southeast lowa (mostly!). Overall, a great reason to lose a nights sleep!

WWV Solar Information

The following "Appendix" pages were supplied by Tom, NCOO. I think they may answer some questions about the WWV solar information avaliable at 18 minutes after the hour every day!

Appendix B

Geophysical Alert Announcements

WWV. The following is the voice message format for geophysical alerts on

() The Boulder K-Index at 0000 UT on repeat, (value) repeat, SEM

() The Boulder K-Index at 0600 UT on SPM

() The Boulder K-Index at 1200 UT on _ repeat, SPM

B. Solar-terrestrial conditions for the last 24 hours follow: (Includes any of the following.) repeat, .

(X) Solar activity was (very low) (low) (moderate) (high) (very

'n'n () A (minor) (major) geomagnetic storm (began at . (X) Geomagnetic field was (quiet) (unsettled) (active)

() A major flare occurred at (day - hour UT) (coordinates) UT) (is in progress) (ended at _

A proton flare occurred at (day - hour UT) (coordinates)

G 15 A A satellite proton event (began at -_ UT) (is in

() A polar cap absorption event (began at ___ progress) (ended at ... in progress) (ended at _ UT) (is

Ö The forecast for the next 24 hours follows: (Includes any of the 8. () Stratwarm (alert - days(s)) (in progress) (ended - days) following.)

(X) Solar activity will be (very low) (low) (moderate) (high) (very high)

تر سأ (X) The geomagentic field will be (quiet) (unsettled) (active)

() A geomagnetic storm is expected (days - approx. time

) A proton event is expected (days - approx. time UT)

Ç () Stratwarm (alert - days(s)) (in progress) (ended - days)

(brief description of conditions)

for the WWV Voice Message Geophysical Alerts Glossary of Terms

A.1. Solar, Flux: Radio flux in flux units (10-22Wm-2Hz-1) at 10 cm (2800 MHz) at local noon (1700 GMT); observed at the Algonquin Counsel, Ottawa. radio observatory, operated by the Canadian National Research

Fredericksburg, Virginia (a midlatitude station). rent GMT day). The A-Index reported is that observed at netic field has been over a 24-hour period (in this case, the cur-K-indices and gives an indication of how disturbed the geomag-A-Index: The A-Index is derived from eight successive 3-hourly

K-Index: The K value is a quasi-logarithmic index of geomagnetic disturbed). It is obtained by determining the maximum deviation activity over a 3-hour period ranging from 0 (very quiet) to 9 (very Boulder, Colorado. the geomagnetic field. The K-Index reported is that observed at from the quiet day curve of the most disturbed component of

Solar Activity:

bance (SID) observed or expected. out centimetric radio bursts or Sudden Ionospheric Disturmore than five of these; fewer than ten class C subflares with-Very Low: Usually only quiet regions on the solar disk and no

bursts or SID observed or expected. the solar disk; only class C subflares without centimetric radio Low: Usually more than five, but less than ten, quiet regions on

class M x-ray events with centimetric radio bursts and SID observed or expected. Moderate: Eruptive regions on the solar disk; fewer than five

events with centimetric radio bursts and strong SID; and/or one or two importance 2 chromospheric flares or class X x-ray events observed or expected. High: Active regions on the solar disk; several class M x-ray

greater), class X x-ray bursts, and major SID observed or with outstanding centimetric radio bursts (500 flux units or one or more chromospheric flares of importance 2 or greater expected Very High: Region capable of producing protons on the sun;

Class C — any solar x-ray burst with a peak flux of 1-8 $\rm \mathring{A}$ of less than 10-5 Watts M-2 Class X — a solar x-ray burst with a peak flux at 1-8 Å greater than or equal to 10^{-4} Watts M^{-2} Class M — a solar x-ray burst with a peak flux at 1-8 Å greater than or equal to 10^{-5} but less than 10^{-4} Watts M^{-2}

B.2. Geomagnetic Field:

Quiet: A-Index \leq 7; usually no K-indices > 2 Active: $15 \le \Lambda$ -Index < 30; a few K-indices of 4 Unsettled: 7 < A-Index < 15; usually no K-indices > 3

B.3. Geomagnetic Storm:

Minor: $30 \le \Lambda$ -Index < 50; K-indices mostly 4 and 5 Major: A-Index ≥ 50; solar K-indices of 6 or greater

- B.4. Major Solar Flare: A flare of optical importance ≥ 28 with a centimetric radio burst of 500 flux units or more; or an X x-ray event of duration ≥ 180 minutes regardless of optical flare importance.
- B.5. Proton Flare: Protons by satellite detectors (or polar cap absorpchromospheric flare. tion by riometer) have been observed in time association with a
- B.6. Satellite Proton Event: A proton enhancement detected by earth orbiting satellites with a measure flux of at least 10 protons $cm^{-2}S^{-1}$ stor⁻¹ at \geq 10 MeV.
- B.7. Polar Cap Absorption: A proton induced absorption ≥ 2 dB during daylight, or ≥ 0.5 dB during nighttime as measured by a 30-MHz riometer located within the polar cap.
- B.B. Stratwarm: A major disturbance of the winter, polar, middle atmosphere resulting from a breakdown of the polar vortex (a cells. These disturbances produce strong hf absorption for transpolar nighttime jet stream flowing around the polar cap) into two

Appendix C

Time and Frequency Standard Services Sources for Information Regarding

WWVH are available from the following sources: and OMEGA System Status Reports that are available on WWV and Information relating to the geophysical alerts, marine storm warnings,

Geophysical Alerts:

National Oceanic & Atmospheric Admn Space Environment Services Center, R43 Space Environment Laboratory Boulder, Colorado 80302

Marine Storm Warnings:

Silver Spring, Maryland 20910 National Weather Service Director

Omega System Status Reports: (G-ONSOD/43) US Coast Guard HQ Washington, D.C. 20590

be obtained from: Publications which describe the NBS time and frequency services may

Boulder, Colorado 80303 Division 524.06 National Bureau of Standards

You can request that you be placed on the mailing list for:

1. NBS Time & Frequency Bulletin -- issued monthly.

- Special bulletins regarding changes in format or operating schedwhen appropriate. ules of NBS services, notices of upcoming events, etc - issued
- Technical notes and other publications of the Time & Frequency Dissemination Group - issued when published

frequency dissemination services. ing Office number 1979-681-991) which describes the NBS time and Also available is NBS Special Publication 432 (U.S. Government Print-

Six Phases of a Project

1. Enthusiasm

2. Disillusionment

3. Panic

4. Search for the Guilty

6. Praise and Honors for the Non-participants 5. Punishment of the Innocent

town

st zip phonehome

phoney

r2-06-1990 AT 15:11 Page 1

statu p name

address

ork mailsta FULL N Nelson Moyer 28 Ealing Dr. Iowa City, Ia 52246 319-351-8775 home 319-335-4500 work (UOA KFOAD FULL N Pat Wilcox 3122 Sue Lane NV Cedar Rapids, Ia 52405 319-396-5232 home FULL Y Al Culbert 1218 Oakland Rd NE Unit 'C' Cedar Rapids, Ia 52402 #DOAWL FULL Y Terry Cellman 703 Lincoln St. Ainsworth, Ia 52201 319-657-3681 home 319-648-2891 work FULL Y Larry J. Newby P.O. Box 185 West Burlington, Ia 52655 319-752-8700 home 319-754-4692 work FULL N Lee L. McKee 1820 Briarwood Lane Muscatine, Ta 52761 319-263-0398 home WOBX FULL N Jim Bohnsack 1169 Rainbow Dr. Waterloo, Ia 50701 319-233-7189 home KZ0C AAOCS ASSDC Y Jeff Barker Box 325 Toledo, Ia 52342 KAOCWR ASSOC Y Mary Dennis 400 E. Vine Toledo, Ia 52342 515-484-4837 home WOEJ FULL N Wade Walstrom 7431 Macon Drive NE Cedar Rapids, Ia 52401 319-393-8982 home 124-115 ms WAOFYG ASSOC Y Rick Hadley 115 Scenic Dr. Vinton Ia 52349 FULL Y Gary Toomsen 2730 Tower Dr. Cedar Rapids, la 52401 319-395-9329 home 137-122 ms KOGT KOGVB FULL N Gary Ernst RR 2 West Branch, Ia 52358 319-643-2287 home FULL N Jim Harvey 819 N. Main St. Goldfield, Ia 50542 515-825-3323 home ASSOC N John Schwandke 1406 N. Marion Washington, Ia 52353 319-653-3606 home 319-653-2113 work KJOH NBOH FULL Y Jack Muckler 2084 Eastern Blvd. SE Cedar Rapids, Ia 52403 319-362-3462 home NOHNJ ASSDC N David Corio 38 Leisure Blvd. NE Cedar Rapids, la 52402 319-395-7973 home 319-395-0462 work FULL Y Terry Parker 535 Sierra Dr Burlington, Ia 52601 319-753-1557 home 319-753-8591 work MOICI FULL Y Grant Kesselring RR #7 Box 160 Ottumwa, 1a 52501 515-934-5320 home KOIIR FULL N Clark Pantel 1610 Hershey Ave. Muscatine, Ta 52761 319-263-9150 home 319-263-6141 work KOINR ASSBC N Tom Taylor RR 1 Shell Rock, la 50670 319-885-4400 home 319-236-1500 work FULL Y Dale Repp 1618 Texas Ave. NE Cedar Rapids, Ia 52402 319-393-6724 home UOIZ NOJCM ASSOC N John Mayer 500 37th Ave N Clinton, Ia 52732 319-243-2414 home 319-244-2389 work KOJGH FULL Y Glen Kesselrino RR #7 Box 160 Ottumwa, Ia 52501 515-934-5320 home ASSOC N Vern Lang 110 E. 2nd St. Muscatine, Ta 5276! 319-263-2697 home 319-263-5041 work VEOM ASSOC N Tom Gordon 6904 Brentwood Dr. NE Cedar Rapids, la 52402 319-373-0757 home 319-851-7219 work WOHJN ASSOC Y Joe Finkstein 2210 Empire St. Marion, Ia 52302 319-377-6573 home 319-395-2294 work 106-124 ms FULL N Orville Duecker 226 Southcrest Waterloo, Ia 50702 319-296-2390 home 319-233-3569 work NKON ASSOC N Jim Livengood R.R. 1, Ferre's Lane Burlington, la 52601 319-752-9310 home 319-752-2701 work WANIN INACT Y Bob Hill 2037 SW 61st Ave Niami FL 33155 FULL Y Tom Hise PO Box 104 Shell burg, Pla 52332 319-436-7786 home 124-115 ms NCOO NUOR_ FULL_Y Steve White 5820-Sanden Rd. NE Cedar Rapids, Ia 52401 319-393-4547 home 319-395-4641 work 153-260 ms UOPPF FULL Y George Carsner 411 Terrace Rd. Iowa City, Ia 52245 319-338-1601 home 319-351-5033 work KCOQ FULL Y Jeff Russell 2125 Linmar Dr. NE Cedar Rapids, Ia 52402 319-363-4139 home 319-395-4664 work 124-211 ms KKOR ASSOC N Bob Tillman P.O. Box I Eldora, Ia 50627 FULL Y Roger Hoffman 17215 Timber Drive Sterling, II 61081 815-625-6547 home N4RR KDORT FULL Y Brad Farrell | 401 Greenwood Dr Ottumwa, Ia 52501 515-684-7768 home 515-682-4535 work FULL Y John Lenaham 923 N. 9th St. Burlington, Ia \$2601 319-753-6883 home 319-752-2731 work KORW NOSH FULL N Steve Miller Route 6 Box 180 Ottumwa, Ia 52501 515-684-4753 home WOSML ASSOC N Doug Byal 4431 Deer View Rd, NE Cedar Rapids, la 52402 319-393-2974 home 319-395-4283 work 153-200 ms FULL Y Jim Spencer 3712 Tanager Dr. NE Cedar Rapids, Ia 52402 319-393-7353 home 319-395-2305 work 124-115 ms WOSR KBOSY FULL N Rick Cordle 515 20th St. SE Mason City, Ia 50401 515-424-1535 home FULL N Paul Feddersen 703 Eclipse Lane Clinton, Ia 52732 319-242-9910 home 319-242-6214 work KKOU FULL Y George Gruenther 1106 S. Leebrick Burlington, Ia 52601 319-753-1461 home 319-753-6253 work WEOU KOUYH FULL N Timothy Allan 732 Wildwood Rd. Waterloo, Ia 50702 319-234-4215 home 319-292-8796 work ASSOC N John Nelson 3109 Terry Dr. SE Cedar Rapids, la 52403 319-365-4432 home WOUZ FULL Y Tom Vinson 10211 Hall Road NE Cedar Rapids, Ia 52401 319-393-8087 home 120-105 ms NYOV ASSOC Y A1 Groff 1446 Council St. NE Cedar Rapids, Ia 52402 319-393-8134 home 319-395-4666 work 124-211 ms KOVH KOVZR FULL Y Tom White RR#2 Jesup, Ia 50648 319-827-6738 home 319-334-7166 work ASSDC Y Keith Erickson 1810 Hillside Dr. NV Cedar Rapids, Ia 52405 319-396-8510 home 319-398-3551 work HGOV FULL Y Tom Lindgren 1260 13th Ave. Marion, la 52302 319-377-4279 home 319-395-1953 work 107-110 ms HONP KEOY FULL Y Tom Kramer 905 LeRoy Muscatine, la 52761 319-264-3259 home FULL N Jan Clute 320 College Blvd. Mount Vernon, Ia 52314 319-895-6635 home 319-927-2143 work WBOZKG FULL Y Chuck Dennis 400 E. Vine Toledo, Ia 52342 515-484-4837 home

WBBZRL FULL Y Tom Vavra 682 Palisades Access Rd. Ely, Ia 52227 319-848-7604 home

From the DX "Sheets"

Afghanistan - YA. YAORR. Expected until January 20th. QSL Romeo Stepanenko. Box 812 Sofia 1000. Bulgaria. Send donations to NT2I. There has also been a rumor that Jacky. F2CW will be in Afghanistan with the French Red Cross later.

San Felix - XQOX. A regular on the 14.160, 14.236 and 14.222 nets as well as some "free-lance" operation. This one is easy on the nets. Making the list is another matter!

Madagascar - 5R. A source close to the ARRL tells on one of the DX nets that a copy of 5R8GN license is soon to be on the DXCC desk! A 5R that will pass

muster at ARRL HQ!?!

HELP!

I need it! I know we are all busy, but surely you have something that belongs on the pages of this newsletter next time! I certainly am thankful for much of what was provided for this months newsletter. This is your newsletter. I don't want to have to make stuff up, but if I have to I will, and everyone is fair game! After all, Glen got Rig-mortis, this month!

GOOD DXING IN 1991!

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