



PEAKS & NULLS



MORRIS RADIO CLUB

Volume I, Issue X

October 13, 2011

VEC EXAM

The Morris Radio Club will sponsor a VEC Exam at 7PM Tuesday night November 22. It will be held in the Library of our regular meeting place the Nor-

mandy Park School. This is a great chance to upgrade locally so get ready and don't forget to pass the word along to your friends.

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DID YOU KNOW?

10 Meters is back. For any of you Technicians this means a chance to work real DX. As this is being written ZD7FT, Peter on Saint Helena is coming in on 28.497 and there is a lot of PSK31 activity into Italy and Russia. Remember Technicians have Phone privileges on 10 between 28.3 and 28.5 MHz and all stations have to observe the 200 Watt power limitation so the big guns can't show up on frequency and drown you out. Also remember you have full CW privileges from 28.0 to 28.3 MHz. Worried about a bad fist? Just set up your computer to send the exchange. Most of these DX stations only take a signal report as there are usually a lot of stations that want

to work them. Just listen for awhile and get a feel for the exchange and see if he is working split, then jump in. It's easy after the first one. No rig? Keep a look out for some of the used 10 Meter only rigs that were popular the last time we had sunspots. Most were used mobile but could also be used as a base station. Cut yourself a 10 Meter Dipole and join the fun. This years 10 Meter contest on December 10 & 11 should be good as we haven't Sunspot levels this high since 2004. You could get your Worked All States Award in one weekend.

SOLAR FLUX

Last month we talked about Sunspots this month lets talk about Solar Flux and the indexes that the propagation programs use. The Sun emits radio signals at a wavelength of 10.7 cm. This is a frequency of approximately 2800 MHz. These signals are caused by heating of the coronal plasma that is trapped by magnetic fields over the active regions of the Sun. This is a very good measurement of solar activity. The Solar Flux measurement at 10.7 cm has been recorded since 1947 and is the next longest record of solar activity after Sunspots. The Solar Flux measurement is made daily at 2800 UTC by the Dominion Radio Astrophysical Observatory of the Canadian National Research Council at Penticton British Columbia. The Solar Flux units range from a theoretical minimum of about 50 to numbers greater than 300. The numbers follow the Sunspot cycle and in addition the Solar Flux and Sunspot numbers can be calculated from one another using a mathematical formula.

The A and K Indices

The A and K Indices are measurements of the magnetic field in and around the earth. The K index measures the change of the horizontal component of the geomagnetic field and uses a scale of 0 to 9. Magnetometer measurements are made every three hours at the Table Mountain Observatory located north of Boulder, Colorado and a new K index is broadcast. The A Index expresses the range of disturbance of the geomagnetic field. It has a range of 0 to 400. The A Index is calculated by converting and averaging the eight 3-hour K Index values. A K index of 1 indicates calm conditions while greater than 5 indicates a Geomagnetic Storm. A 0 to 8 A Index means Quiet band conditions where a index of 8 to 15 means unsettled, 15 to 30 is active, while any number above 30 means noisy band conditions with a number of 30 to 50 as Minor, 50 to 100 as Major and 100 to 400 as Severe.



UPCOMING MEETINGS

October 17, 2011 Regular business meeting
November 21, 2011 Regular business meeting
November 22, 2011 VEC Exam

SELECTED UPCOMING CONTESTS

ARRL Sweepstakes Contest, CW	2100Z, Nov 5 to 0300Z, Nov 6
DARC 10-Meter Digital Contest	1100Z—1700Z, Nov 6
RSGB 80m Club Sprint, SSB	2000Z—2103Z, Nov 9
WAE DX Contest, RTTY	0000Z, Nov 12 to 2359Z, Nov 13
Kentucky QSO Party	1400Z, Nov 12 to 0200Z, Nov 13
ARRL Sweepstakes Contest, SSB	2100Z, Nov 19 to 0300Z, Nov 21
RSGB 80m Club Sprint, CW	2000Z—2130Z, Nov 24
CQ Worldwide DX Contest, CW	0000Z, Nov 26 to 2400Z, Nov 27



PREDICTED SUNSPOT NUMBER AND RADIO FLUX FOR NOVEMBER 2011

*****SUNSPOT NUMBER*****

*****10.7 RADIO FLUX*****

PREDICTED HIGH LOW

PREDICTED HIGH LOW

72.1 82.1 62.1

124.9 133.9 115.9

SEPTEMBER MEETING MINUTES

Morris Radio Club – Meeting Minutes
June 20, 2011

Attendees (8) NO2EL, K2EMJ, KC2ITU, KC2KNT, NI2O, W2GM, WA2VQF, W2ZKE and two Guests

Opening of Meeting
President Ed Peters K2EMJ opened the meeting at 7:35 PM

Reports:

Secretary – Bill WA2VQF reported that the June Minutes were issued in the Peaks and Nulls Newsletter and that no corrections were received. Ray KC2KNT moved that the minutes be accepted. Mark W2GM seconded. The minutes were accepted

Treasurer – Noel NO2EL reported the current account balances. The balances are available from Noel.

Ray KC2KNT moved that the Treasurers report be accepted. It was seconded by Paul KC2ITU and unanimously accepted.

Old Business:
Field Day was discussed and it was agreed that we all had a good time, everything worked, we had great accommodations and very little interference between stations.

The August Get-Together at Atlanta Bread was reviewed. We have not gotten the check yet.

New Business:
The Technician class has started with one student. Anyone can still start.

The Computer Room at the school will be available this year in case we want to have a December meeting instead of the dinner.

We have the opportunity to move the meetings to Morristown High School. We will talk about it again at a later date.

We had been asked at the August Get-Together by KT2F and N2OYU if the club would sponsor a Skywarn training session. They have been given dates that the High School would be available. We have not heard back yet.

A discussion was held about the response to the recent hurricane and the state of RACES in Morris County.

Motion to Adjourn Ray KC2KNT
Seconded by Mark NI2O

President Ed Peters K2EMJ closed the meeting at 8:08 PM

Respectively Submitted,

Bill WA2VQF
MRC Secretary

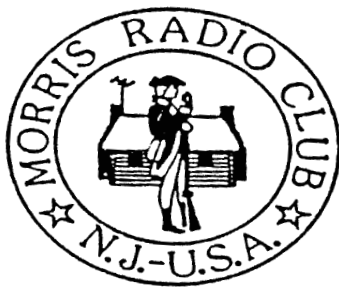


MORRIS RADIO CLUB

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KC2RDX ROB BRABANDT VP
WA2VQF BILL LOFTUS SECRETARY
NO2EL NOEL SCHEFFEN TREASURER

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WWW.MORRISRADIOCLUB.ORG



THE MORRIS RADIO CLUB IS AN ORGANIZATION OF AMATEUR RADIO OPERATORS WHICH HAS BEEN IN EXISTENCE FOR OVER SIXTY FIVE YEARS. AS A HOBBY, AMATEUR RADIO SERVES AS A PUBLIC RESOURCE FOR COMMUNICATIONS AS WELL AS AN EDUCATIONAL EXPERIENCE.

ALTHOUGH MANY WHO BECOME INTERESTED IN AMATEUR RADIO ARE INVOLVED IN AN ELECTRONICS RELATED FIELD, THE HOBBY APPEALS TO A WIDE VARIETY OF INDIVIDUALS.

THE MEMBERSHIP OF THE MORRIS RADIO CLUB IS A DIVERSE GROUP MADE UP OF MEDICAL, BUSINESS, EDUCATION, AND LAW ENFORCEMENT PROFESSIONALS, AMONG OTHERS, WHOSE COMMON INTERESTS ARE COMMUNICATION, EDUCATION, AND PUBLIC SERVICE.

HAMFEST CALENDAR

October 21

Splitrock ARA 1st Annual Auction
Roxbury Senior Center
72 Eyland Ave
Succasunna, NJ 07876

Doors open at 5PM and Auction starts at 7PM

Admission is \$3.00

Check flyer on www.splitrockara.org

November 25

Fair Lawn, NJ Fair Lawn Radio Emergency Service / KJI electronics auction

The Fair Lawn Senior Center, 11-05 Gardiner Road, Fair Lawn, NJ 07410

<http://www.flarc.net>

Cost: Free for buyers and sellers; FLARC commission 10% per item (\$20 max)