



# Manhattan Area Amateur Radio Society

Monthly Newsletter

April 2010

**MAARS Monthly Meeting**  
April 9th 7:30 PM  
Manhattan Church of Christ  
2510 Dickens Ave.

## The President's Corner

Brian Carter KC0DWX

Well again time got away from me and I'm sending out a very late and short newsletter. Hopefully everyone is starting to enjoy the nicer weather and starting to be outdoors and get all those projects that spring brings accomplished.

Our April 9 meeting of MAARS will include discussion of the Cabin Fever Bicycle ride in Pott. County on the weekend of April 17th. There are usually in the neighborhood of 250 bicycles on this ride and we have done a good job of keeping tabs on where everyone is located. All help is always appreciated and we look forward to having more hams from around the general area help us out on this ride.

We will also see if there is any further discussion on Field Day for this years event. Several locations have been offered and hopefully we can narrow those down a bit and have a direction to go. Dave(KD0AZG) has volunteered to head off the Field Day committee and I believe is still the only person actually working on this. Any other help is greatly appreciated so feel free to step

forward and give a hand.

We have been discussing actually getting some meeting programs lined up and it looks like we will be doing a better job of having something to present at our meetings. We have come up with a couple of ideas to get the ball rolling but need more ideas from the group as well as things they can discuss or demonstrate.

As always we welcome everyone to attend the eating meeting Friday night as well as the regular meeting. We usually meet at Sirloin Stockade around 5:30 PM to eat and then move to the Manhattan Church of Christ for our 7:30 PM club meeting. We look forward to seeing you all there

Brian

### THE TREASURER'S REPORT

February 1st 2010 to March 1st 2010

Submitted by: Christine Chainey KCØYJN, Treasurer

As of February 1, 2010

Cash on Hand	\$110.00
Checking account	\$169.68
Savings account	\$1,186.11
<b>TOTAL</b>	<b>\$1,465.79</b>

Expenditures:

AT&T	\$35.23
KSDB Tower Rental	\$36.00

As of March 1, 2010

Cash on Hand	\$110.00
Checking account	\$ 98.45
Savings account	\$1,186.11
<b>TOTAL</b>	<b>\$1,394.56</b>

### THIS MONTHS EVENTS

April  
 9 . . . . .MAARS Dinner  
 Sirloin Stockade 5:30 PM  
 9 . . . . .MAARS Meeting 7:30  
 PM

### Weekly Nets

MAARS 147.2550  
 Club net  
 Tuesdays 9:00 PM CST  
 Youth net  
 Thursdays 8:00 PM CST

# 27 Day Solar Predictions

Date	Flux 10.7 cm	A Index	Kp Index
Apr 07	85	20	4
Apr 08	85	15	3
Apr 09	83	7	2
Apr 10	81	5	2
Apr 11	80	5	2
Apr 12	80	5	2
Apr 13	80	5	2
Apr 14	80	5	2
Apr 15	80	5	2
Apr 16	78	5	2
Apr 17	75	5	2
Apr 18	75	5	2
Apr 19	75	5	2
Apr 20	75	5	2
Apr 21	75	5	2
Apr 22	75	5	2
Apr 23	78	5	2
Apr 24	80	5	2
Apr 25	80	5	2
Apr 26	80	5	2
Apr 27	80	5	2
Apr 28	80	5	2
Apr 29	80	5	2
Apr 30	80	5	2
May 01	80	5	2
May 02	80	5	2
May 03	80	5	2

**Solar Flux:** This flux number is measured from the amount of radiation on the 10.7cm band (2800MHz). It is closely related to the amount of ultraviolet radiation, which is needed to create an ionosphere. The lowest possible number for this solar flux is 63.75. Single hop propagation already starts at 70 in lower latitude areas. Worldwide long distance propagation (DX) may turn up already with a solar flux at 120. From experience, an average solar flux of 170 seems to be ideal for 10m-20m bands QRP DX with good possibilities during these conditions to reach every possible part of the globe

Your membership in MAARS is important to help keep the club alive and maintain equipment. If you haven't already done so please consider joining MAARS at a prorated fee. We also have a student rate available. Dues should be mailed to MAARS, P.O. Box 613, Manhattan, KS 66505.

## THE TREASURER'S REPORT March 1st 2010 to April 1st 2010 Submitted by: Christine Chainey KCØYJN, Treasurer

As of March 1, 2010

Cash on Hand	\$110.00
Checking account	\$ 98.45
Savings account	\$1,186.11
<b>TOTAL</b>	<b>\$1,394.56</b>

Income:

Interest	\$ 0.51
----------	---------

Expenditures:

AT&T	\$34.84
PO Box Fee	\$44.00

As of April 1, 2010

Cash on Hand	\$110.00
Checking account	\$119.61
Savings account	\$1,086.62
<b>TOTAL</b>	<b>\$1,316.23</b>

with a simple dipole running as low as 5 Watts!

A- and K-index: Geomagnetic activity indices, high indices (K:>5 or A:>20) means stormy conditions with an active geomagnetic field. The more active, the more unstable propagation with possible periods of total propagation fade-out. Especially around the higher latitudes and especially at the polar regions, where the geomagnetic field is weak, propagation may disappear completely. Extreme high indices may result in aurora propagation, with strongly degraded long distance propagation at all latitudes. Sporadic-E is strongest during low indices. Low indices result in relative good propagation, especially noticeable around the

higher latitudes, when transpolar paths may open up. Maximum K-index is 9, and the A-index can exceed well over 100 during very severe storm conditions, with no maximum. The ARRL often reports the K-index from the Alaskan station where this index is known as the College K-index. Other stations reporting K-indices include Planetary and Boulder. In contrast, the A-indices are usually reported for the Planetary station only.

The higher the K-index, the more unstable propagation becomes, the effect is stronger at high latitudes, but weaker near low latitudes.

When storm level is reached, propagation strongly degrades, possibly fade out at high latitudes.