SCARC/CARC Field Day 2007

Lincoln Way Chapter
of the American Red Cross,
Ames, IA

Class 2F
W0ISU
W0YL (GOTA)

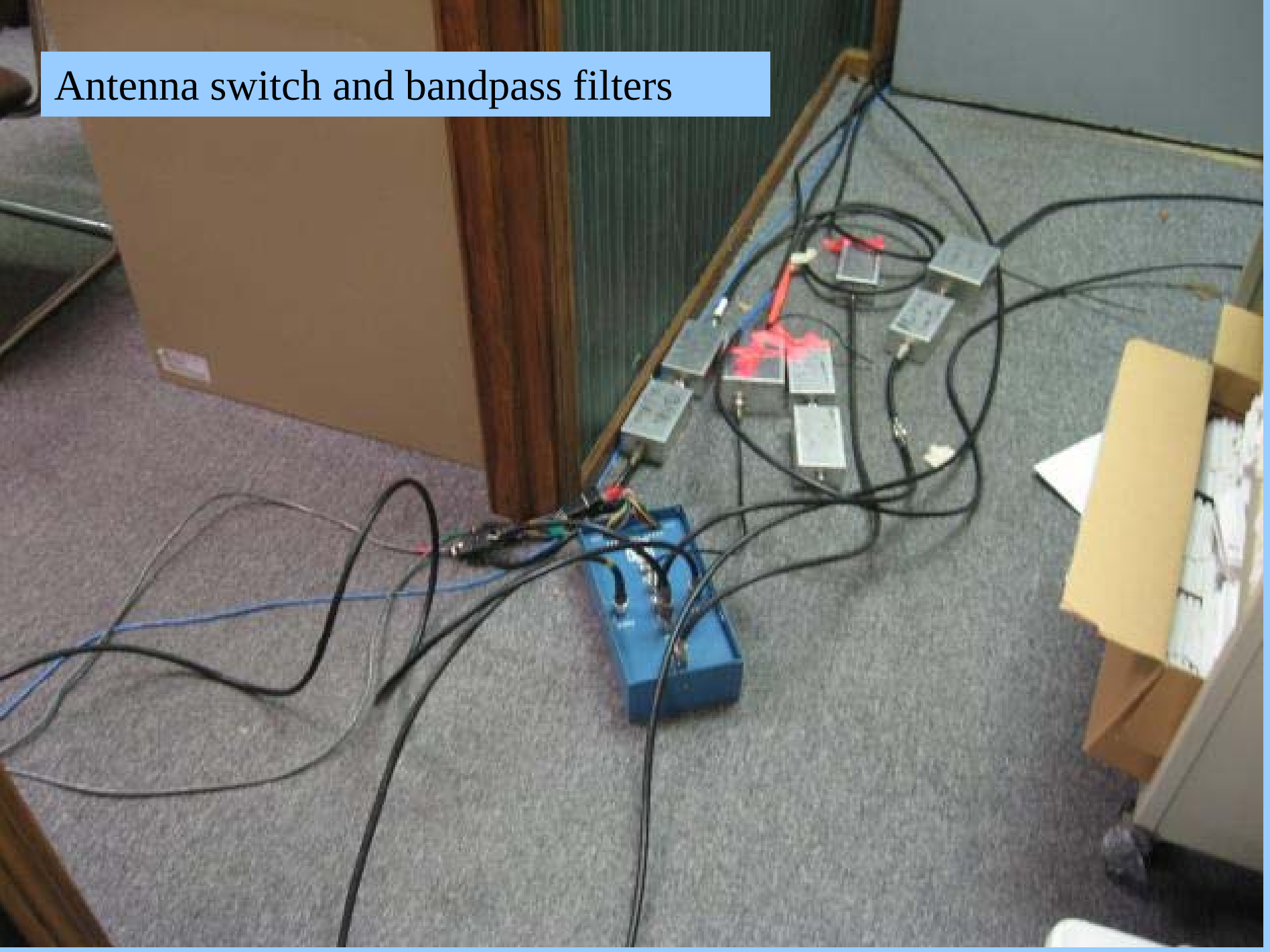
Participants

Operators: AC0BG, AD0H, AG3V, K0KT, KC0JUO, KC0SVG, ND0D, KI0Q, N0HR, N0NRO, KB0MGQ, KC0WKE

Other ham participants and visitors: W0NFL, KA0IOR, KC0MZ, WA0MUG

Dave KI0Q putting up 40 and 80 m antennas.

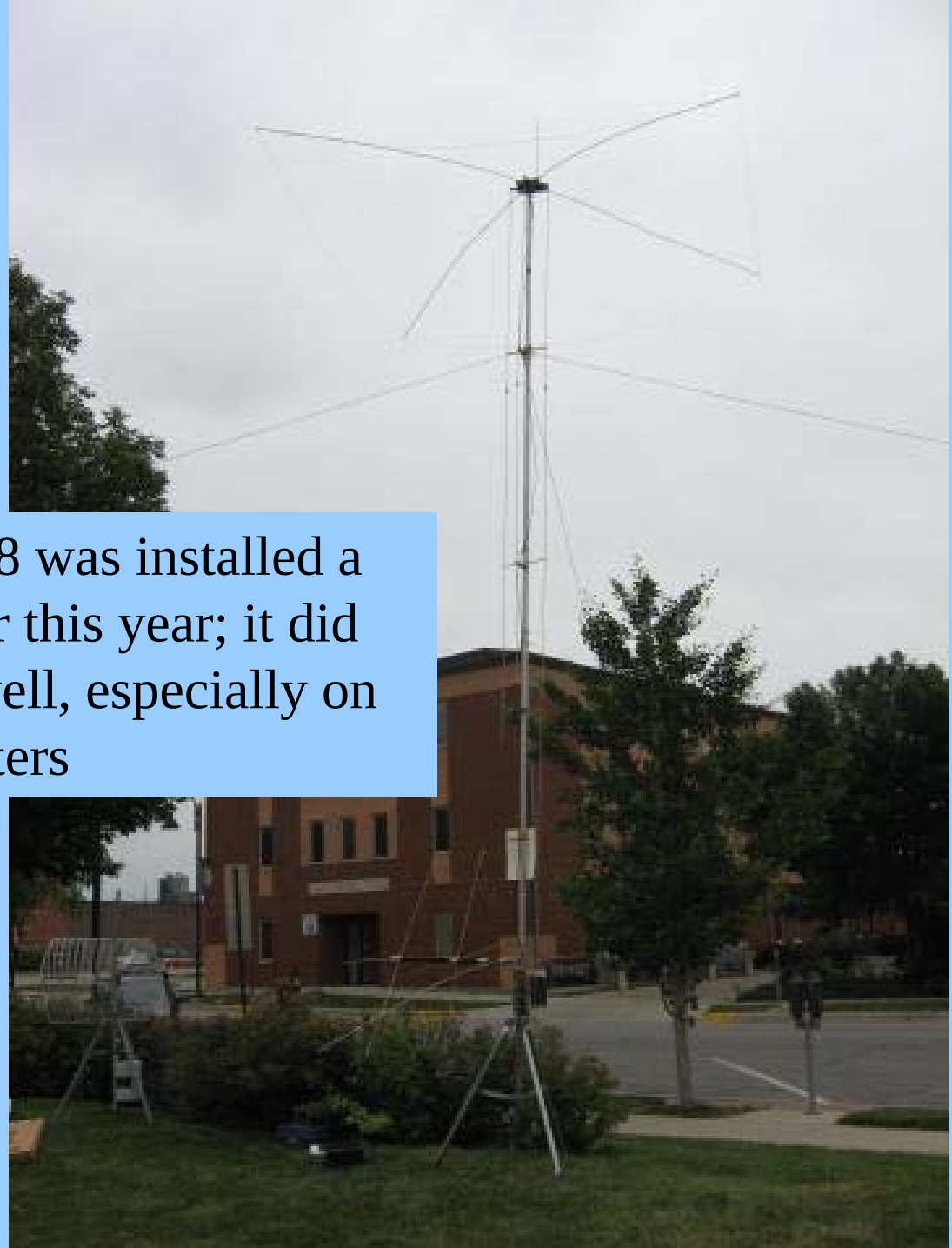
AG3V and KC0JUO setting up antennas on the roof

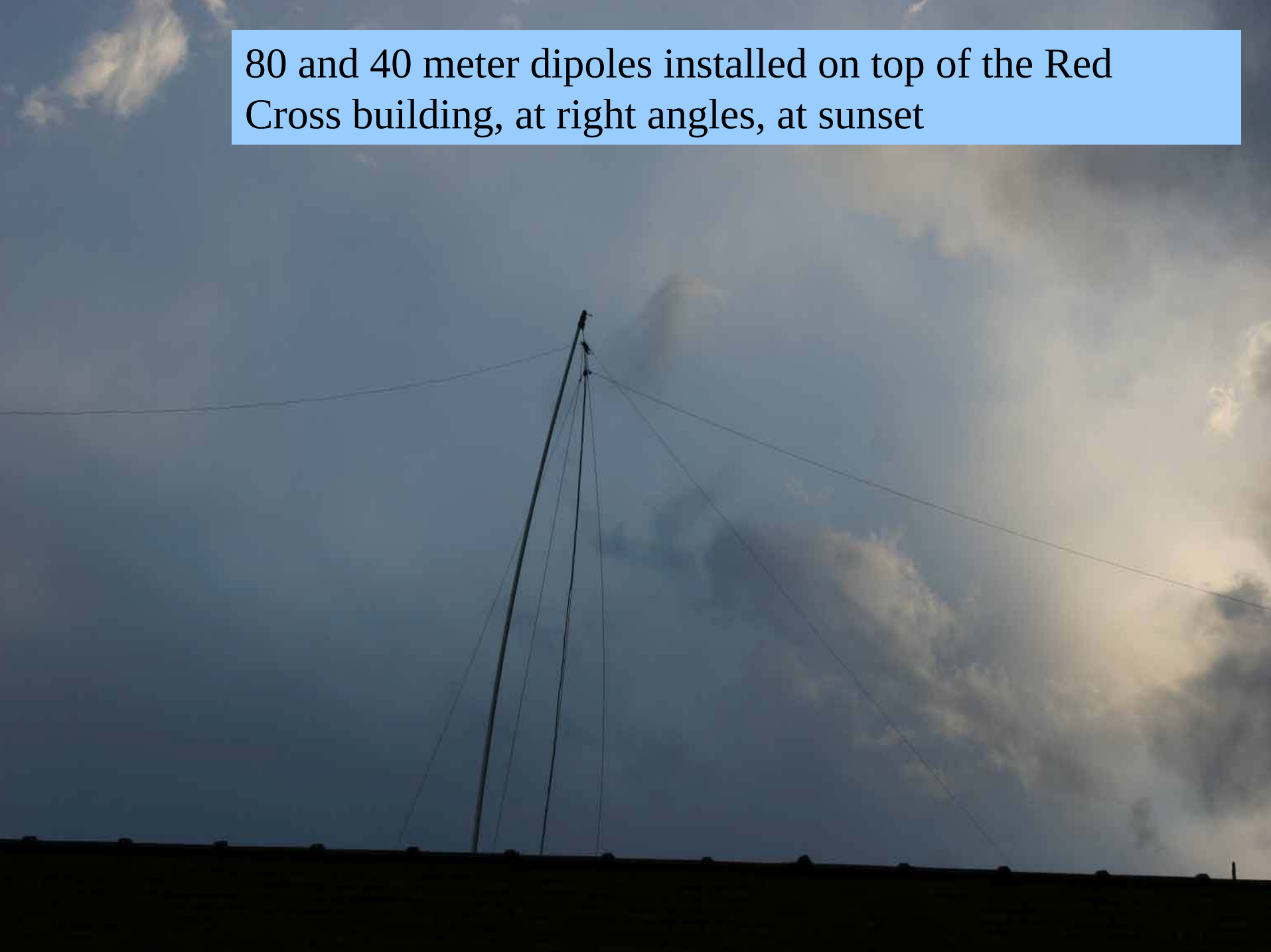

Antenna switch and bandpass filters

West link of the W0ISU wireless network

W0ISU West

The MFJ-1798 was installed a few feet lower this year; it did not work as well, especially on 40 and 80 meters

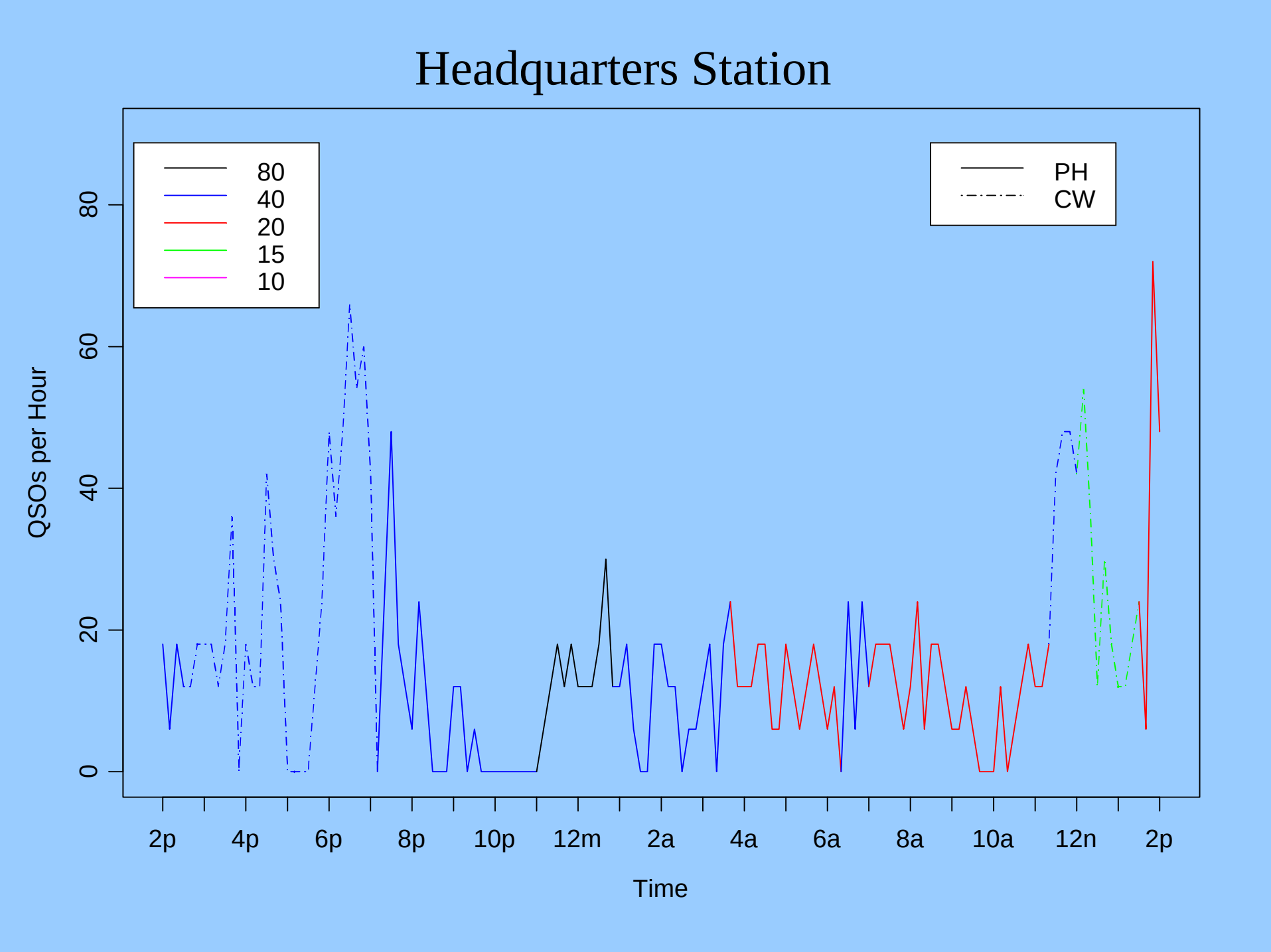


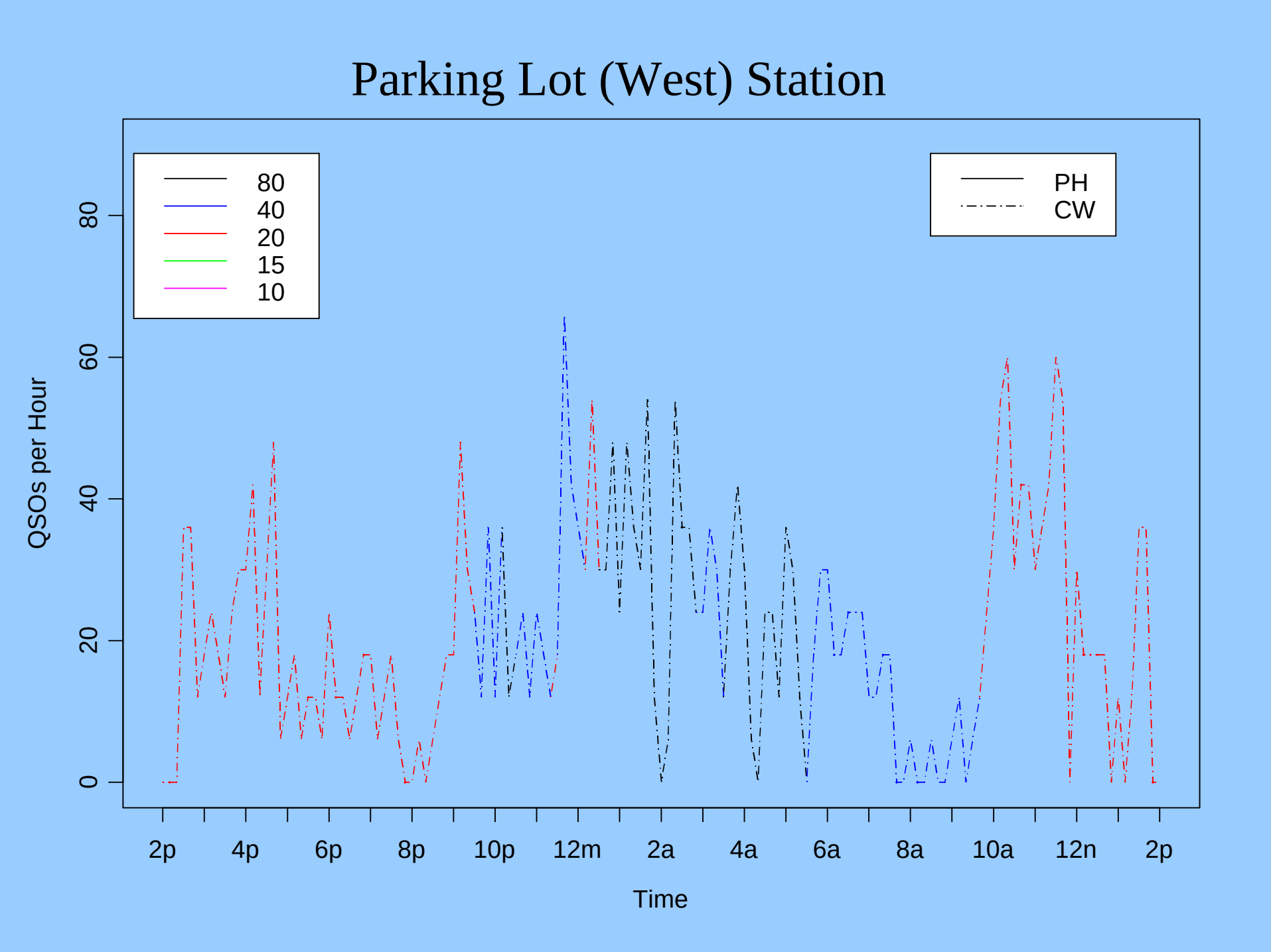

80 and 40 meter dipoles installed on top of the Red Cross building, at right angles, at sunset

Keyboard set up for semi-automatic CW QSOs

QSO Summary 2007

	CW		Digital		Phone	
	QSO	Power	QSO	Power	QSO	Power
160	0	150	0	150	0	150
80	118	150	0	150	26	150
40	266	150	0	150	77	150
20	253	150	0	150	97	150
15	36	150	0	150	0	150
10	0	150	0	150	0	150
6	0	150	0	150	1	150
GOTA	0	150	0	150	55	150
Totals	673	CW	0	Dig	256	Phone


Headquarters Station
80
40
20
15
10
PH
CW
QSOs per Hour
0
20
40
60
80
2p
4p
6p
8p
10p
12m
2a
4a
6a
8a
10a
12n
2p
Time


Parking Lot (West) Station
80
40
20
15
10
PH
CW
QSOs per Hour
0
20
40
60
80
2p
4p
6p
8p
10p
12m
2a
4a
6a
8a
10a
12n
2p
Time

Bonus Points 2007

X Emergency power (KC0JUO)	100
X Public location (ND0D, AG3V)	100
X Media Publicity (KC0VTY)	100
X Public Information Table (??)	100
X NTS message to ARRL SM/SEC (AC0BG)	100
W1AW Field Day Message	100
X Formal NTS messages handled---about 5 (AC0BG)	50
Satellite QSO completed	100
X Alternate Power QSO's Completed (AC0BG, KI0Q)	100
X Site Visited by elected official (KC0JUO)	100
X Site Visited by served agency official (KC0JUO)	100
X GOTA QSO bonus (KC0JUO)	40
GOTA maximum QSO's achieved	
X Non-Traditional mode: APRS (N0NRO)	100
X Non-Traditional mode: ATV (KB0MGQ)	100
X Youth Participation (3) (KA0IOR, ND0D, AD0H)	60
X Web submittal of FD results (K0KT)	50

Approximate FD Points 2007

Total CW QSO's: 673 X 2 = Total CW QSO points: 1346

Total Digital QSO's: 0 X 2 = Total Digital QSO points: 0

Total Phone QSO's: 256 X 1 = Total Phone QSO points: 256

Total QSO points: 1602 x 2 = 3204 for the power multiplier

Power Multiplier 150 Watts or less = 2

Approximate Bonus points 1400

Approximate Claimed Score: 4604

Worked all states and all ARRL sections except PR, NL and NT

Summary FD Points 2006

Total CW QSO's: 535 X 2 = Total CW QSO points: 1070

Total Digital QSO's: 8 X 2 = Total Digital QSO points: 16

Total Phone QSO's: 340 X 1 = Total Phone QSO points: 340

Total QSO points: 1426 x 2 = 2852 for the power multiplier

Power Multiplier 150 Watts or less = 2

Bonus points 640

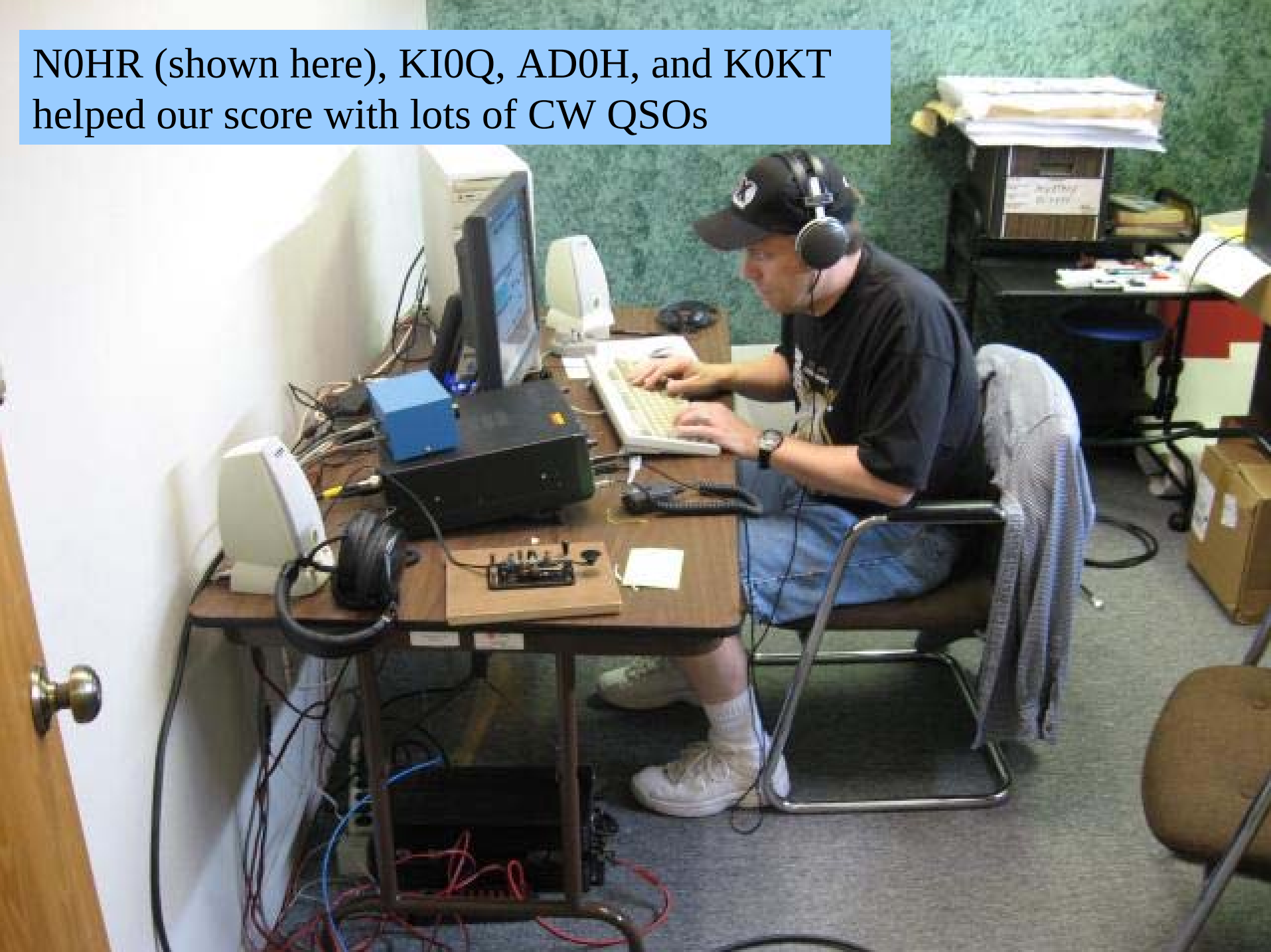
Claimed Score: 3492

Worked all states and all ARRL sections except PR and NL

2006 vs 2007

	2006	2007	Diff.
Total QSO Points	2,852	3,204	352
Bonus Points	640	1,400	760
TOTAL POINTS	3,492	4,604	1,112

In 2007 our final score was 32% higher.


N0HR (shown here), KI0Q, AD0H, and K0KT
helped our score with lots of CW QSOs

KC0JUO testing the Red Cross generator

It worked!

KC0JUOTrying to work on a satellite

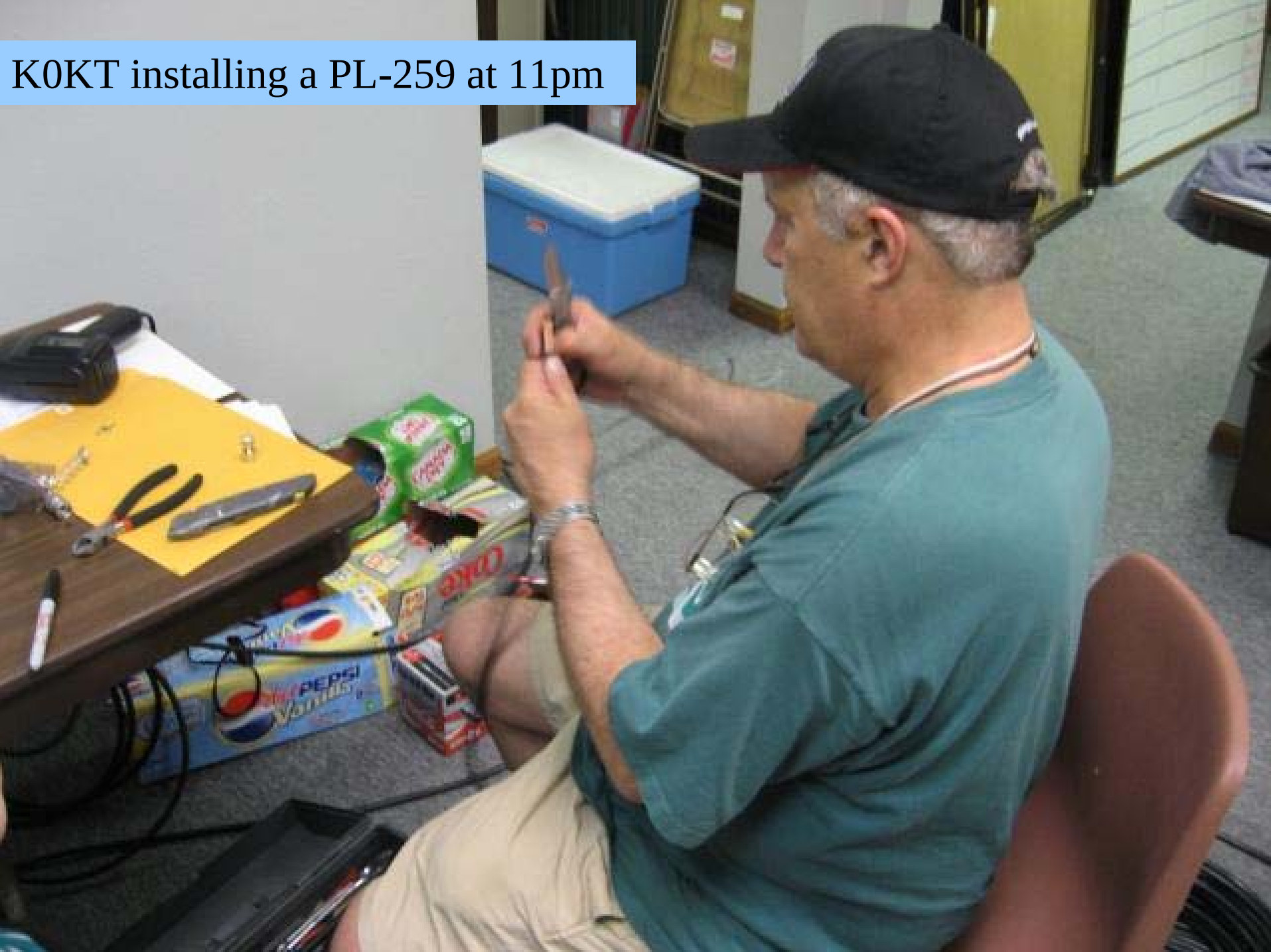
KC0JUO, AD0H, and KB0MGQ with the satellite antenna


N0NROs APRS setup

ND0D and K0NN Coaching a GOTA visitor

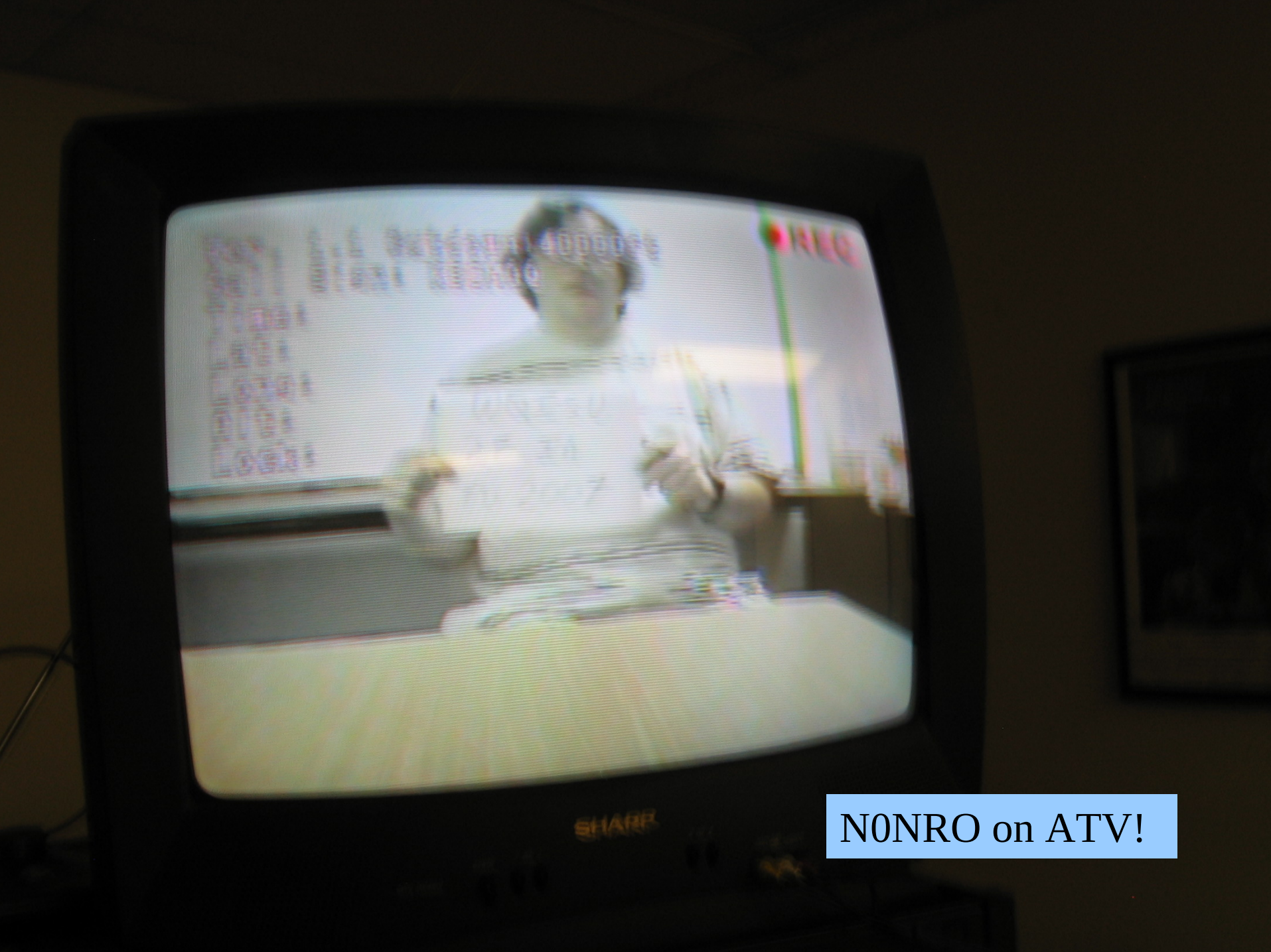

New-to-HF GOTA operator KC0JUO being coached by ND0D

N0NRO explaining the setup to Ames City Councilman Ryan Doll


K0KT installing a PL-259 at 11pm
PEPSI
Vanilla


AC0BG operating the early morning shift (around 3am)


KB0MGQ demonstrating his ATV setup on 440MHz
CPR SATURDAY
CHOKING MANIKIN
Together,
RESET
RUN


SHARP
N0NRO on ATV!


KC0SVG checking propagation

AC0BG’s Solar panels and voltage regulator

KI0Q working CW on solar power

2007 Innovations that Worked

- Band mode data sent automatically from radios to computers (does it work with RTTY?)
- Specific assignments for extra point activities
- Indoor GOTA station allowed more flexible hours and increased activity

Special Thanks 1

- KI0Q for the wireless network, difficult antenna work, long hours of operating, including the “solar QSOs”
- KC0SVG for providing his Airstream camper for Station 2 and the very capable ICOM 746
- AG3V, CARC, for bringing other ICOM 746s
- KC0VTY for arranging publicity
- ND0D, K0KT, and AD0H for serving at GOTA coaches

Special Thanks 2

- K0JYF and AC0BG for providing and setting up the MFJ-1798 antenna for Station 2
- AC0BG for bringing his solar panels and 12 volt expertise
- KC0JUO and ND0D for inviting special officials and securing permissions
- K0KT, ND0D, and Frieda for food and drinks
- KC0JUO for serving as the Red Cross liaison

Special Thanks 3

- AC0BG for letting us use his solar panels
- N0NRO for operating his APRS station and providing important communications links
- AC0BG, KI0Q, KC0SVG, AD0H, and K0KT for working the late/early shifts (10pm to 7am)
- ND0D, N0NRO, AD0H and K0KT for photographs

Suggestions for Field Day 2008

- Again, use delegated responsibilities for particular bonus point tasks and documentation
- Test all antennas ***before*** FD and during setup. Use antenna analyzers at several stages of setup.
- Test all radio/computer combinations in all modes **before** FD weekend to avoid unexpected issues (e.g., pre-FD testing of communications between rig and radio and RTTY configurations).
- Alternative 40-80 meter antenna at Station 2

Suggestions for Field Day 2008

- Better understanding of and experimentation with digital modes implementation on SCARC/CARC radios before FD
- Continued and wider publicity for the GOTA station
- Priority for newly-arriving GOTA visitors
- Recruit more long-term GOTA operators (i.e., making 20+ QSOs), perhaps in off hours