

The LOCAL OSCILLATOR

September 1995

The Publication of the Panhandle Amateur Radio Club

Matt Carpenter-KC5CGT

Guy Pigg-WZ5C

The 146.94 Project is now complete.
Another "THROW YOUR JUNK IN THE TRUNK" tailgate party.
Review of the Wild West 150 Bicycle Race held earlier.
Mir has a new guest going onboard with some special equipment.

All this and more in this issue of The Local Oscillator.

Here is a list of frequencies and time for local nets:

P.A.I.N. Net-146.66 Mhz-8:00 pm, Sundays.
Cloud Chases Net (RACES)-146.92 Mhz- 8:00 pm, Mondays.all
Sidewinders 2M SSB Net-144.2-8:00 pm, Mondays.
ARES Net-146.52 Mhz-8:00 pm, Thursdays.
Panhandle Traffic and Emergency Net-3.933 MHz - 00:00 UTC, Daily.
MidWest Section, AMSAT Net-3.94 0MHz -9:00 pm, Tuesdays.

Here are dates and times for activities and meetings in September.

Tuesday, September 5th - Regular Meeting, 7:30 at Southwest Branch Library.
(VEC Testing at 6:00 PM)
Tuesday, September 12th-ARES Meeting, 7:30 at Polly's Resteraunt on I-40 & Bolton.
"JUNK IN THE TRUNK" TAILGATE PARTY, September 23 at Club Site at ATC.
FUN begins at "OLE SUN-UP THIRTY"

Tuesday, September 26th - RACES meeting, 7:30 at Old Police Academy.

Events at Club Station for September.

Special events are in line for this month. Details inside this months newsletter.

Presidents Letter

Howdy,

Wow, it's hard to believe that I have been president for 3/4 of a year! Things are still cooking with the PARC! The controller has arrived for the 94 repeater, and it is on the air. The machine is going through beta testing and should be available most of the time. Feel free to check it out. Hopefully, it will be back at the site sometime in September. Hats off to the 94 fund contributors who made all of this possible. Users are signing up for the new closed UHF machine. The introductory offer of a dollar a month until your membership expires is still available. After that it is \$15 a year per person for club members and \$30 a year per person for nonmembers. This is an experimental use of this machine where the UHF users have decided to pay their own way instead of relying on the rest of the club to subsidize their efforts.

The W5WX club station is in the process of being cleaned up. The HF yagi is off the tower (at least while this was written) having its elements straightened and some of the hardware replaced. When the antenna is put back on the tower the dipoles will also be remounted with new cord. The current cord has a bad case of sun rot. The UV light from the west Texas sun can work a rope over pretty quick. I think I will check mine while the weather is nice.

The PARC Field Day effort was reported on and pictured in the national publication "Satellite Operator", June, 1995 pages 1 and 2. Thanks to KJ5ER for some nice pictures. Look for additional Field Day news in the AMSAT Journal and of course QST.

Finally, I would like to apologize for being unable to attend the September meeting. A previous obligation will keep me detained. I should be back for the October meeting at ATC.

73, Joe

P.A.R.C. MEMBERSHIP RATES

Full and Family	\$25.00 per year
Associate (Non-Voting /Newsletter only)	\$8.00 per year
UHF Repeater Access	\$15.00 per year (Club Member)
	\$30.00 per year (Non-Club)

NEWSLETTER SUBMISSIONS

All articles are due by the 20th of the month.
You may send them via the following:

Internet: guy.pigg@radio-online.com

BBS: The Lumber Yard (806) 381-8247
(Must be registered user)

By phone: (806) 372-8462 (An answering machine)

In care of: Panhandle Amateur Radio Club
P.O. Box 10221
Amarillo, Texas 79116

444.475 Closed PARC Repeater Authorized User List

KA0YOS Joe Mayfield
KB5VLE Terry Mayfield
N5SQK Brett Sims
KJ5ER Aaron Sims
WB5QLI Ken Hanson
KB5VLW Terry Whitaker
KC5DTA Dan McCabe

W5RXC Jim Wilhite
WA5UUS Ron Mashburn
K5WZF John Lisman

MINUTES OF PANHANDLE AMATEUR RADIO CLUB, Inc.

T.S.T.C. August 1, 1995

Meeting brought to order by President, Joe, KA0YOS.

Previous minutes read by Brett, N5SQK and accepted.

Treasurer report read by Aaron, KJ5ER and accepted.

Ronnie, N5ZLU received a W5WX outstanding service award for his efforts on the 146.94 antenna change-out. A motion was made and accepted to have a "JUNK IN THE TRUNK" tailgate party on September 23 in the Club parking lot. Guy, WZ5C, discussed the progress on the 94 machine: A new controller (Link RLC-2) is on order, the repeater and cabinet are being worked on. August is "Clean up your Shack Month". Accordingly there will be a W5WX cleanup each Saturday morning in August. Guy, WZ5C, will have the station open. Antenna work is scheduled for Aug. 5th. There will be a Balloon tracking party at the Club Station on August 19th. Glenn Dalke, KB5VVM, expressed concern that the Club constitution had not been re-written after the last amendment which abolished the Board of Directors and trustee's. The constitution had been rewritten, but a review by Glenn showed about three or four areas where there were still references to the Board of Directors and trustees. Brett, N5SQK agreed to make the changes. There was discussion on the proposal published in the Local Oscillator (Dated August 1995), to close the repeater on 444.475. After much discussion the proposal was made into a motion and seconded. The motion was passed 8-4. Motion was made and seconded to adjourn.

CONTRIBUTIONS TO "FIX 94 FUND" AS OF AUGUST 31, 1995

CONTRIBUTION

WA4NXI	COLEMAN WINGATE	\$100.00
N5SQK	BRETT SIMS	\$100.00
N5MGU	JEROLD McCOWAN	\$250.00
KC5JIF	REDDY BIGGS	\$250.00
KK5KK	DAVID WILLIAMS	\$100.00
N5UPC	RANDY/SHERRI BAKER	\$25.00
KB5WIO	JIMMY BURKHALTER	\$50.00
N5YXN	CARL JEANS	\$50.00
KC5DKQ	ROBERT McKEE	\$25.00
KI5VR	DALE HALL	\$100.00
N5VRN	LEYLAND CARPENTER	\$50.00
W5CKR	JIMMY FOWLER	\$50.00
KC5KCA	DENNIS SCHLEGEL	\$50.00
KA5KHY	BILLIE LOVE	\$25.00
WB5QLI	KEN HANSON	\$50.00
WS5R	BEN POLLARD	\$25.00
KC5CGT	MATT CARPENTER	\$50.00
KC5OMK	MONTE DENNY	\$100.00
KB5VJW	TERRY WHITAKER	\$50.00
N5SXJ	ROBERT MACMILLIAN	\$50.00
W5PSZ	LUTHER ADKINS	\$50.00
W5UGQ/UGR	MAURICE & ELIZABETH SPROUL	\$25.00
KB5EY	BILL BRAIN	\$50.00

W5WX STATION NOTES

by Guy Pigg, WZ5C

This month on the 23, we will be having our second "JUNK IN THE TRUNK" tailgate party at the club station on Amarillo Technical Center. Listen to the repeater and HF nets for details as well as information passed along at the club meeting. Hope to see all y'all there again!

The W5WX repeater system up-grade "North Site" project is now concluded. The LINK controller came in about and as the cabinet was being preped, work was begun on learning and basic programming of the controller system. At about the time the rf deck was about to be installed, Bret came upon an idea of placing a repeater type case into the cabinet by switching some VHF low-band electronics for high band so the proper frequency can be used. The system was finally wired in with battery back-up, tuned to the 146.34/94 frequency and placed in a test mode at the garage of N5SQK. Results proved to be outstanding. On August 27, the repeater unit was placed at its proper site at the KVII-TV transmitter site.

There is still some programming to be done in order to activate autopatch and other features available. At the moment, the first P.A.I.N. Net was conducted that evening. At that time, some bugs did show themselves. Those will be handled in due course. If there is anyone who would like to learn all the characteristics of the LINK controller, let me, Bret, or anyone on the Tech Committee know. At this point, anyone who contributed in addition to members of the Tech Committee will be asked to become controller ops of the repeater system. Keep in mind that there will be limits to some information about the controller. This is to maintain security, however, please feel free to learn about the controller as much as can be allowed. The restrictions to some information is very minimal, and for all interested, quite interesting.

Next month, myself and Bret will detail all that was done and money spent. Also, so that I can make an honest attempt to maintain accuracy, I will recognize all individuals involved in this project. The heart of the project is the list of contributors that are listed in the newsletter. But the hard work of everyone involved cannot be measured. At the moment, THANKS TO EVERYONE INVOLVED. You will be recognized.

Is anyone at all interested in really getting together and operating the HF station during contest? I'm ready for ideas. What about DXCC and WAS or if you want to as an individual, DXCC and WAS? At the moment, the Kenwood TS-440 is in the shop being repaired with a tuner outage. But I hope to have that resolved soon. Hey folks, it's ready for your use, I don't have an HF station. SO..... (let me know.)

Finally, I am still having a problem trying to recover or know the whereabouts of the equipment mentioned in last month's newsletter. Therefore, I will extend the opportunity of coming forth as to who has or what happened to the MFJ TNC and a portion of unused coax. These items were gone way before I became station manager. With the exception of the remnant of coax that was left after use at the present club station site, the TNC was lost probably about the time the club changed locations from the Red Cross to our present site. The use of the coax for the station was brought to my attention. So, again an appeal to anyone who knows the whereabouts of these items, please let me know. I need to close out this issue.

Satellite Round Up !!!!

First a brag. The PARC/W5WX rated nice coverage in the June edition of "Satellite Operator". Our report begins on page 1 and we have two pictures on page 2. The editor added a nice comment about the wonderful satellite horizon we enjoy on the golden spread.

I was torn between three subjects to write about this month, but in the interest of brevity I will only address one. The comment I hear most often when wearing my AMSAT hat is "I'd love to work satellites, but i just can't afford it!". This statement makes my blood BOIL!! I usually respond by asking if the person can afford to work HF. I would be happy to argue that satellite operation can be cheaper than HF operation!

Let's look at radios first. People assume (for reasons I have never been able to determine) that you need the latest Yae/Ken/com whiz bang radio to work the OSCARs. If that is true I notice the following from my AES catalog:

	Yaesu		Kenwood		Icom
HF	FT-1000	\$3700	TS-950	\$3900	IC-781 \$5400
OSCAR	FT-736	\$1649	TS-790	\$1749	IC-970 \$2400

Satellite radios appear to be half the cost of HF rigs! You may argue that these are top of the line HF rigs, I will counter that these are top of the line satellite rigs. My point is NOT that you need \$1800 to start an OSCAR station. Just as you don't need \$4000 to start an HF station. The key is getting your feet wet with a minimum investment. If you don't like it you won't be out much. Not many people start HF operations with a \$4000 radio, \$2000 amplifier and \$3000 worth of antennas, towers, etc. Why they assume they need to start with that caliber of an OSCAR station is an enigma to me. The average HF equipped station can become operational on mode A with the addition of a 2 meter SSB radio. This radio could also be used for terrestrial work on SSB and CW, as well as FM. You can find a nice NEW 2 meter SSB radio for around \$550 (less if you shop). Used radios of this variety go for \$200 and up. The adventurous can go the transverter route (its easy and how I started) for less than \$100 if you play your cards right.

So, the next time you see me don't tell me you can't afford to operate the satellites, ask me how to get started That is an issue I love to talk about!!! I'm back off my soapbox now.

73, Joe

CLUB BY-LAWS AND CONSTITUTION AVAILABLE ONLINE.

The club by-laws and constitution are available to anyone that has the ability to go online. You may obtain a copy on the Lumberyard BBS. The number is listed at the begining of this issue. Remember, you must register to use the BBS. This should take no more than 24 hours. The file is located in the Ham Radio section of the Engineering Sig.

Wild West 150 '95

by Dave Opitz, KB5IAS

The Panhandle Multiple Sclerosis Society's annual Wild West 150 bike ride was again a huge success! There were 150 entrants in the event that started at the Ramada Inn in Amarillo at 7:00am Saturday morning and ended the first day in Miami or Canadian TX for the extremely serious riders.

Sunday's ride started at the Canadian Elementary school and continued south to Shamrock. This ride attracts riders from as far away as Seattle, Albuquerque and Houston plus many many panhandle folks. Many area hams volunteered their weekend to provide unsurpassed emergency and logistic communications to support the many riders. Kim Opitz - KB5VJT served as net control, Earl Burkhalter - KC5NEF provided communications for the water truck, and Daniel Blount - KC5HQY provided communications for the Hills Bike Shop repair truck. Rest area communications were provided by Dick Reimund - N5AE, Jimmy Burkhalter - KB5WIO, Mark Moad - N5NLL, Kerry Scott - KC5HQW, Jerold McCowan - N5MGU, Frank Murphy - N5ZLT, Chester Bursell - KA5KQH (who also assisted as an EMT), Dave Opitz - KB5IAS, and Dub Adcock - KC5ICX.

Susan Bovenzi - Bike Tour Coordinator said "I have cyclists spread out for 100 miles at one time and without your communications between the rest areas and support vehicles it would be impossible to have the Bike tour. The money raised by this event provides services and equipment for people with MS and their families in the Texas and Oklahoma panhandles. Thanks for all your hard work and devotion that made the bike tour the success that it was!" It was a lot of fun and I am already looking forward to it again next year!

73's - Dave KB5IAS

GERMAN COSMONAUT QRV ABOARD MIR

German Cosmonaut Thomas Reiter, DF4TR, will be QRV aboard the space station MIR signing DP0MIR during the ESA EUROMIR 95 mission starting 02-SEPT-1995. He will use the 2 m ham radio rig aboard MIR during the 135 days of his flight. Primary frequencies to be used (preferably in SPLIT mode) are 145.800, 145.550, and maybe 145.200 MHz (as adopted for MIR and SHUTTLE activities at the IARU session of this year's AMSAT-UK Colloquium). The QSL info is DP0MIR, and QSLs will be handled via the usual German DARC QSL buro.

A 70 cm equipment, called SAFEX II and built by Thomas Kieselbach, DL2MDE, (who also arranged DF4TR's activity together with Sergej Samburov, RV3DR), will be installed at the MIR spacecraft permanently in the course of future missions later. This will primary be an fm repeater with a downlink at 437.925, 437.950, and 437.975 MHz, and an uplink in the lower part of the 435 MHz space segment. SAFEX II will later be improved adding a 23 cm to 13 cm transponder, capable of broad-bandwidth modes (e.g. ATV).

vy 73 de Norbert,

DF5DP@amsat.org (DARC Coordinator Satellites and Space Projects)

FIELD DAY HATS AND T-SHIRTS FOR SALE!!!

Don, KC5EZO, has made arrangements to have special hats and shirts made up for purchase for those who went to field day this year or who would like to have one and say they did. He will be at the club meeting this month and at out tailgate party on September 23. For information, give him a call at (806) 381-2775.

VE3ONT Algonquin Radio Observatory Operating Schedule 1995

(revised 8/24/95)

The Toronto VHF Society plans to use the 46-meter (150') dish at the Algonquin Radio Observatory (courtesy of the Institute for Space and Terrestrial Science, York University) during the 1995 A.R.R.L. International E.M.E. Competition. We will operate both weekends of the contest and hope to activate the 50, 144, 222, 432, and 1296 MHz bands during this time.

Band	Date	Time	VE3ONT TX frequency	VE3ONT RX freq. window
(UTC)	(UTC)	(UTC)		
144 MHz	Oct 6/7	0000-0910	144.100	144.100-144.110
50 & 1296 MHz	Oct 7/8	2305-1020	50.100 1296.050	50.100-50.105 1296.050-1296.060
222 MHz	Oct 8/9	2335-1120(*)	222.010	222.010-222.020
432 MHz	Nov 3/4	0000-0805	432.050	432.050-432.060
144 MHz	Nov 4/5	2135-0910	144.100	144.100-144.110
144 MHz	Nov 5	2205-2400	144.100	144.100-144.110

(*) 222 MHz: Only 2335-2400 UTC QSOs count for the EME contest; VE3ONT will be active all night anyway.

Notes:

- 1) VE3ONT will attempt to be on the air at moonrise prior to the start of both the October and November weekends. We encourage only those who have not yet worked an EME station to try working us at that time. Experienced EME operators, please wait until the start of the contest. Anyone who works VE3ONT before the contest is encouraged to work us again during the contest.
- 2) Please avoid multiple QSOs during the contest. They only detract from the opportunity of first-time EME stations. If you wish to work VE3ONT on SSB, wait until we switch; don't work us first on CW and then repeat on SSB, please. Also, please avoid duplicate 144 MHz QSOs between the two weekends.
- 3) The 50 MHz and 1296 MHz operation scheduled for October 7/8 will be simultaneous on both bands, barring unforeseen difficulties.
- 4) As always, VE3ONT's operation is subject to last-minute cancellation for commercial users of the site.
- 5) In order to maximize your chances of making a QSO, make use of the entire receive window. Our best weak-signal successes in previous years have been well away from our TX frequency. We tune the window constantly.
- 6) Times shown reflect the dish's 9 degree lower elevation limit, not actual moonrise at the site (grid FN05xw).
- 7) 50 MHz will use horizontal polarization. 144, 222, and 432 MHz will be RHCP on both TX & RX in order to minimize Faraday/spatial polarization effects. Your linearly polarized or circularly polarized OSCAR antenna will work fine. 1296 will be switchable RHCP/LHCP for both TX & RX; default is RHCP.

- 8) VE3ONT will transmit maximum legal power on 50, 144, 222, and 432 MHz. 1296 MHz power will be at least 150 watts.
- 9) We expect 222 MHz activity to be concentrated near horizon times. Be aware that we are limited to +9 degrees elevation lower limit. Therefore stations on the North American East Coast will have to elevate their antennas to work us on 222 MHz. We encourage very small stations to try because QRM will be minimal and we will be on the air all night even though this is after the contest.
- 10) All operation will be "random," that is, without prearranged skeds.
- 11) QSLs go to Dennis Mungham, VE3ASO, RR #3, Mountain, Ontario, Canada, K0E 1S0. Inquiries to Peter Shilton, VE3VD, 215 Windecker Rd. R.R. #1, Cayuga, Ontario, Canada N0A 1E0 or call (905) 772-8938 (EDT/EST evenings). W9IP 8/24/95

EASTER ISLAND DXPEDITION INFORMATION

CALLSIGNS

XR0Y Easter Island
XR0Z Salas y Gomez

RADIO SCHEDULE

1-21 Sept XR0Y/B Beacon QRV from Easter Island
5-20 Sept XR0Y QRV from Easter Island
7-11 Sept XR0Z QRV from Salas y Gomez

OPERATING FREQUENCIES

The DXpeditions will transmit on or near the following frequencies. The listening frequencies will be announced on the air.

—Easter Island XR0Y—			—Salas y Gomez XR0Z—		
CW	SSB	RTTY	CW	SSB	RTTY
1824.5	1845	-	-	-	-
3525	3795	3680	3540	3760	3590
7025	7065	7080	7040	7060	7090
10115	-	10108	10104	-	10104
14025	14195	14080	14040	14260	14090
18075	18145	18102	18080	18160	18109
21025	21295	21080	21040	21260	21090
24895	24945	-	24920	24960	-
28025	28495	28180	28040	28460	28190

6 m 50.105

SSTV 14.230 Robot 72

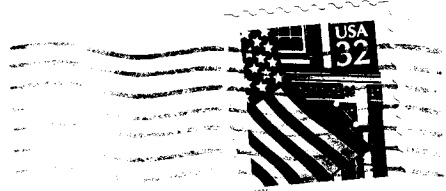
HF Satellite (RS-12) Tx: 21.225/Rx: 29.425

UHF Satellite (AO-10,AO-13) 435.505 up/145.890 dn B mode

Beacon 14.100 Beacon sends callsign CW at 100 W,
XR0Y/B 18.110 then a steady tone for
21.150 1.5 s at 100, 10, 1, and 0.1 W,
24.930 then moves to next higher frequency.
28.200 The cycle repeats once per minute.

REAL SIGNAL REPORTS PLEASE

PANHANDLE AMATEUR RADIO CLUB
PO BOX 10221
AMARILLO TX 79116



03/03/96 - Individual
CARL JEANS N5YXN
6112 CALUMET
AMARILLO, TX 79106

**AMATEUR RADIO.....IT'S NOT JUST A
HOBBY, IT'S CATALOGS AND CATA-
LOGS AND CATALOGS AND CATALOGS
AND.....!!!!!!**