

K5PRK Newsletter

The PARKing Ticket

K5PRK.Net [Facebook](#) [IO Group](#)



Officers

President:

Tim Johnson, K5TCJ

Vice President:

**Anthony Bourkas –
KB3DVS**

Secretary:

Johnnie Young, KG5CQO

Treasurer:

Mike Tharp – KG5TJF

Activities Director:

Richard Seitz – KG5HCJ

Communications Director:

Dick Thiot N5FCB

Webmaster

**James McCormick
KG5KBP**

Public Relations:

Dan Daniels, W5KKO

Newsletter Editor:

Neil Gould, NE5IL

Monday Mar 18, 2024 – 7:00 pm

March, Plano will welcome James Sargent of the 50 year old VRPS - The [Vintage-Antique Radio & Phonograph Society](#). This is a non-profit historical organization incorporated in the Irving and serving enthusiasts of Dallas-Ft. Worth Texas and Surrounding Areas. They have regular meetings and vintage radio auctions.

James will present "Atwater Kent, the early years". Even though Atwater Kent had no influence on ham radio, his development style was used by hams well into the 30's and even today with what we typically call "breadboarding".

The **General Klub Meeting will be** at the [First United Methodist Church Plano](#) on the corner of Parker Rd and Spring Creek.

In this Issue

[From the President and the Board](#)

[Total Solar Eclipse PARK Event](#)

[High Altitude Balloon Launch during the Eclipse](#)

[ARRL News and Info](#)

[Texas QSO Party – Who Wants to Party?](#)

[Short Takes](#)

[Area Nets](#)

[Ham Radio References](#)

[Secretary Meeting Minutes](#)

[Skywarn Handouts](#)

[Future Club Meeting Programs](#)

Collin County SKYWARN Virtual training for 2024

Registration for these classes is limited to 500 registrants. If a class is full, continue to check back as any cancellations will open additional spots.

Thursday,
March 21

Advanced 7:00 pm

[Registration Link](#)

PARK Repeaters

The Plano Amateur Radio Klub operates five repeaters, which are located in Allen, Texas about 180 feet above ground level. All licensed amateur operators are welcome to join us on the air. All repeaters are open.

**147.180 MHz +
(PL 107.2)**

K5PRK VHF
Voice Repeater

**444.250 MHz +
(PL 79.7)**

K5PRK UHF
Voice Repeater

441.575 MHz +
DStar UHF
Digital Voice Port B

**1295.000 MHz –
20.000**

DStar 23cm
Digital Voice Port B

1255.000 MHz
DStar 23cm Digital
Data

Broadcastify

[K5PRK 444.250](#)

[K5PRK 147.18](#)

**Note: If you notice
problems with any of the
club's repeaters, please
contact
communications@k5prk.net**

**via email with a detailed
description of what the
issue is. If we don't know
that a repeater is down, we
can't fix it.**

From the President

Now that we are on Daylight Savings Time (what a misnomer) we've got a little more time in the evening to catch some DX the higher day-time bands. As I type this on Sunday afternoon the 10th, 10 meters is open to the SW Pacific, Japan, the southern part of South-America and Europe! Get it while its hot!

Do you use EchoLink to access our, or other repeaters remotely? [EchoLink Web](#) now has an edition of [EchoLink](#) that runs entirely within a Web browser. It runs on various browsers and OS platforms and doesn't require any app to be installed – just click and go. Give it a try.

73, and see you on the air,

Tim Johnson K5TCJ
President PARK

Informal PARK net

Every **Wednesday night at 8:00pm** on the PARK repeater, 147.180 with a PL tone of 107.2 offset. Everyone is welcome and encouraged to join in the conversation and it's a good place to ask about computer or ham radio subjects, or anything else that's on your mind. We don't think that there are any dumb or stupid questions. We encourage questions and will help you find an answer.

The only rule is no politics, crude or offensive language, and no religion because we are here to have fun and maybe learn something new.'

P. S. There is usually a few people on the repeater every night at 8:00pm talking about one thing or another and having fun! We encourage everyone to join us!! – **Michael K5MFP**

Future Club Meeting Programs

APRIL

We will have representatives from the DFW National Weather Service come and present about their current activities, how radio interfaces with storm spotting & reporting, and what the future holds for the NWS in DFW.

In MAY,

John Smith of **Texas Baptist Men / Texans on Mission** will visit and present about the activities of TBM who have been providing worldwide emergency assistance since 1967. Ham radio and communications has been a big part of their relief efforts so this will be an interesting one for sure. <https://www.tbmtx.org>

This JUNE,

Get out your coffee thermos for Field Day because PARK is looking to do an **overnight Summer Field Day Activation** which we haven't mustered since before Covid. It's been 5 years and it's time for members, young and old, to take on Field Day in all it's 24-hour glory. Put it in your calendars now. Sign up now and make a commitment to "get back out there" for Summer Field Day.

We need people to sign up for shifts, for overnights, and to assist with setup, tear down, meal crews, and general come out and join us. Sign up form is HERE: <https://bit.ly/PARK-FD-2024>

JULY

Seems a LONG way off but it's time to get that unused ham gear out of your attic and garage because the **annual PARK Auction** is coming up again and we welcome donations to the club table to be auctioned off to assist with club activities and expenses. It's a great way to clear out old gear you never use, help the club, and have a lot of fun buying some new gear you hopefully WILL use! <https://k5prk.net/club-auction/>

AUGUST

Will continue the great series of programs with something I haven't figured out yet, but I'm I have a few feelers out and I welcome your suggestions to VP@K5PRK.net

Anthony Burokas

General Class Ham (KB3DVS)

VP: Plano Amateur Radio Klub – <http://k5prk.net>

[SOLAR ECLIPSE QSO PARTY SEEKS AMATEURS AND RADIO ENTHUSIASTS](#)



[FOR GLOBAL EXPERIMENT](#)

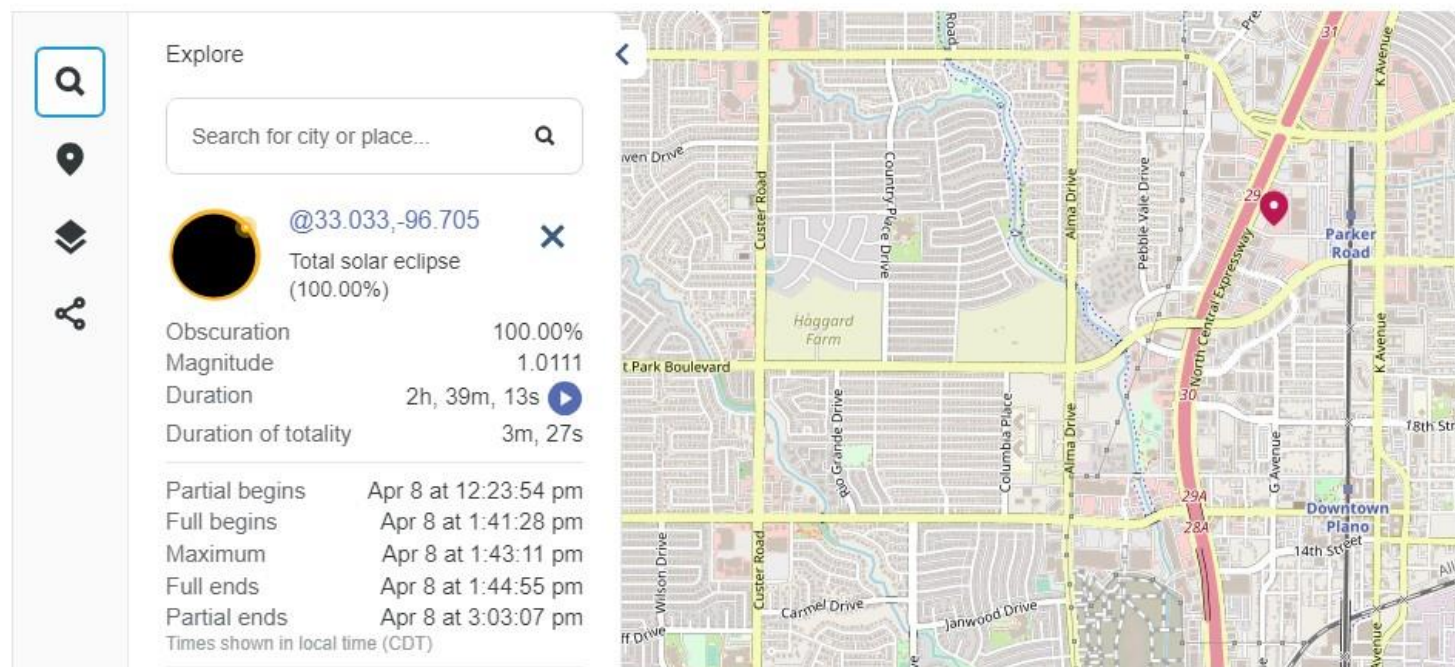
PARK should take advantage of being right in the path of the total eclipse on April 8 by participating. What are some ideas? Set up a field day type station in a public area? The [Solar Eclipse QSO Party rules](#) can be found here.

I have received permission to use a corner of Plano Super Bowl parking lot to set up a small station in the parking lot. The eclipse details are shown below. This map came from [here](#).

My plan is to have 1 station using a Buddie pole type antenna using digital and/or ssb from about 11am until 4pm. This can be expanded if there are enough others interested.

Plano Super Bowl is pinned in the map below.

Eclipse Map — April 8, 2024 Total Solar Eclipse



I saw a total eclipse in 1973 off the coast of Africa. It is a sight not to miss.

will be the first total solar eclipse visible in Dallas-Fort Worth since 1878 and the last for almost 300 years.

Ham Radio Science Citizen Investigation (HamSCI) has presentations for hams interested in participating on Wednesday, March 27 at 8:00 PM (Eastern) - 5:00 PM (Pacific)*, and that same day at 10:00 PM (Eastern) - 7:00 PM (Pacific)*. Both 30-minute presentations will held on Zoom and they will feature HamSCI's Festivals of Eclipse Ionospheric Science (FoEIS). The presenters will take your questions during the presentations.

Here is the [link to the presentations](#).

The program will start by covering HamSCI's basis and purpose, and quickly move into why they are conducting experiments, how hams and shortwave listeners (SWLS) can participate, and what they hope to learn from the event. Along the way, they will discuss why the science behind the event is important to users of the high-frequency radio spectrum - including amateur radio operators!

We are planning a **high-altitude balloon launch** during the Eclipse on April 8.

If you are interested in participating, plan on having that Monday free.

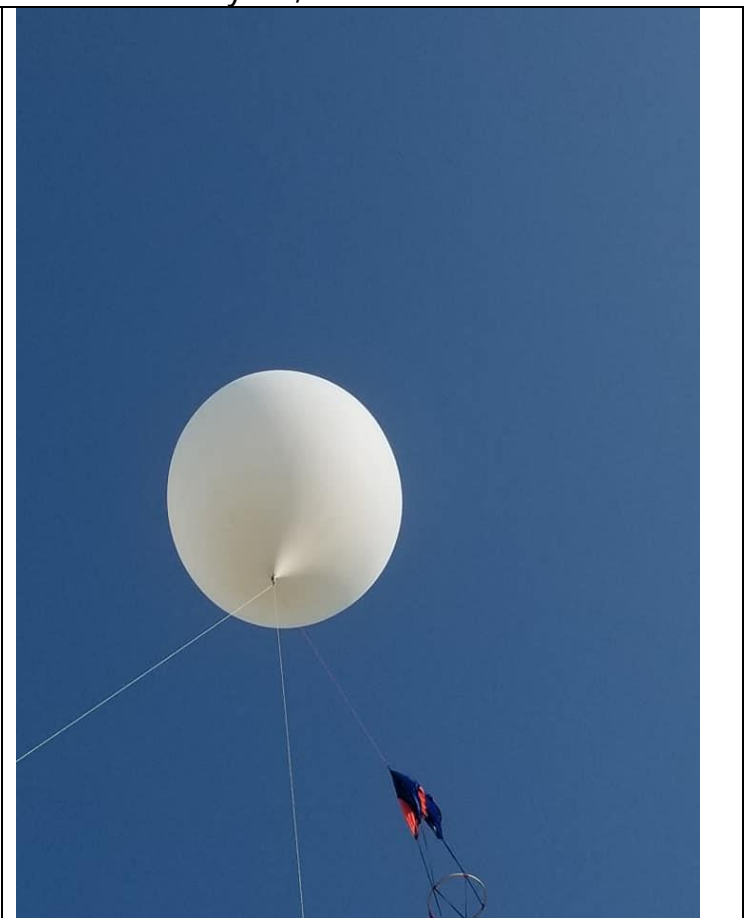
We plan to take pictures of the eclipse east of Dallas for the maximum viewing time at altitudes near 100,000 feet.

The flight path of the balloon is very dependent on the wind and weather, which we will not know until a week before the eclipse. We will try to get a flight path that maximizes our time in the eclipse, and that depends on how the wind blows.

We will keep everyone updated on the PARK email list. As things become more settled.

Kip
AE5IB

Pictures from the PARK launch on July 24,2021





Earth's first science fair



WENDY GETS PRIVACY BY CREATING HER OWN BOOK COVERS

Introducing the innovative
all new
N2VAN Rubber Chicken J-Pole!

- 1) Convenient Top Feedpoints!
- 2) Something to crow about!
- 3) Guaranteed to wake up your SWR!
- 4) Does not need a ground plane!
- 5) DHMO-resistant design!
- 6) ROHS compliant!
- 7) Works on the Chicken Band!
- 8) No tuning required!
- 9) Guaranteed chick magnet!
- 10) Better than +13 dBDL Gain.
- 11) More cluck for your buck!
- 12) More laughs than a barrel of monkeys!



This is why women live longer...



ARRL News

ARRL magazines

QST - ARRL's Monthly Membership Journal - www.arrl.org/qst

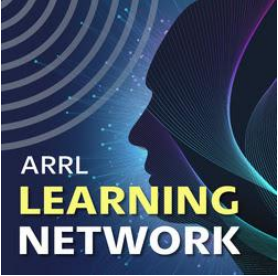


On the Air - NEW! Beginner to intermediate level help and advice - www.arrl.org/On-the-Air-Magazine

QEX - The Forum for Communications Experimenters - www.arrl.org/QEX

NCJ - National Contest Journal - www.arrl.org/NCJ

Listen to [ARRL Audio News](#), available every Friday.

ARRL Podcasts Schedule

	<p>Visit the ARRL Learning Network (a members-only benefit) to register, check on upcoming webinars, and to view previously recorded sessions.</p>
	<p>About ARRL Audio News</p> <p>ARRL Audio News is a summary of the week's top news stories in the world of Amateur Radio, along with interviews and other features. Enjoy ARRL Audio News anywhere: on your smart phone or tablet, your local repeater, or stream it on the go!</p> <p>How to Listen to Audio News</p> <p>ARRL Audio News is distributed through the podcast host Blubrry.com. You can subscribe to the podcast via your IOS or Android mobile device using your favorite podcast app, or listen and download episodes direct from the Audio News page at Blubrry.</p>
	<p>The Joys of Being a General</p> <p>The January/February 2024 issue of <i>On the Air</i> featured a story from Brian McSpadden Gardener, KE8JVX, about "The First-Year Experiences of a General-Class Ham," in which Brian detailed how he got his feet wet as a General, and how he put together his first station for HF. Brian joins this episode of the podcast to tell us a little more about his first year as a General, as well as what he's done since then.</p>

[2023-2024 ARRL Contest Dates PDF](#)

A complete list of special event stations, including Veterans Day stations, is available at www.arrl.org/special-event-stations.

Texas QSO Party – Who Wants to Party?

2024 CONTEST DATES

Saturday September 21: 9AM to 9PM CDT / 1400 UTC TO SEP 22 0200 UTC AND
Sunday September 22: 9AM to 3PM CDT / 1400 UTC TO 2000 UTC

RULES / SCORING

See <https://www.txqp.net/index.php/rules/operating-rules>

CATEGORY (NEEDED FOR EXCHANGE):

STATION CALL / SIGNAL REPORT / COUNTY ABBREVIATION / TXM – SO

SEAN – W5SPK WANTS TO LEAD A TEAM OF OPERATORS IN HIS POV

2017 CHEVY TAHOE WITH ICOM 7000 WITH A TARHEEL 200A ANTENNA.

COOLER AND FIRST RESPONDER KIT AND TOOLS ON BOARD

TEAM: ONE DRIVER AND THREE QUALIFIED HF OPERATORS.

ROTATING DRIVER, NAVIGATOR, OPERATOR AND LOGGER.

NEED TO START PLANNING ROUTES AND SPOTTING SAFE / CLEAR OPS

GAS AND FOOD ONLY / NO LODGING – WE WILL SLEEP IN OUR OWN BEDS.

INTERESTED IN PARTICIPATING AND BRING SOME RECOGNITION TO THE CLUB...

EMAIL ME - EXTRAW5SPK@GMAIL.COM

TARGET AREAS OF OPERATION AND TRAVEL



Short Takes

[AMATEUR RADIO FOR YOUR PC AND SMARTPHONE](#)



Easy to use Amateur Radio Software transceiver. Talk to Ham Radio operators all over the world. No extra hardware needed.

HamSphere® works in Windows, Mac, Linux, iOS and Android. Installation takes less than a minute. We offer a 30-day trial!

HOW HAMSPHERE WORKS

HamSphere® is a virtual Amateur Radio Transceiver. Once installed, you will be able to communicate with thousands of Ham Radio operators and Radio Enthusiasts in over 300 DXCC entities around the world. You can even use HamSphere without a Ham Radio license by getting our special HamSphere call sign when you sign up.

HamSphere is a highly realistic shortwave simulation based on SDR (Software Defined Radio) technology. It is a modularized Amateur Radio Transceiver where operators build their own radio using plug-ins and virtual antennas. Once you download and install this software you will get a basic working transceiver for a trial period.

[VOACAP Online for Ham Radio](#)

VOICE OF AMERICA COVERAGE ANALYSIS PROGRAM VOACAP

VOACAP is free professional high-frequency (3-30 MHz) propagation prediction software from NTIA/ITS, originally developed for Voice of America (VOA).

ABOUT [AMATEUR RADIO WEEKLY](#)

OUR OBJECTIVE AT AMATEUR RADIO WEEKLY IS TO HELP PROMOTE AMATEUR RADIO BOTH AS A HOBBY AND AS A COMMUNITY RESOURCE BY HIGHLIGHTING AND SHARING THE MOST EXCEPTIONAL HAM RADIO CONTENT ON THE WEB. WE'RE MOST INTERESTED IN PROMOTING THE LATEST CUTTING-EDGE IDEAS, TECHNOLOGY, AND METHODS FOUND IN THE HOBBY TODAY.

Local and Some HF Area Nets

MARC Nets

Sunday 8:00 PM – General Information Net – we ask participants about their week in ham radio and their thoughts on a question of interest to the ham community.

W5MRC Repeater, (146,740 MHz, offset -0.600 MHz, tone 110.9)

Monday 8:30 PM – Simplex net – see how far your VHF radio can go without a repeater

Along with general discussion. 146.540 MHz Since this is simplex, no offset or tone are required.

1st and 3rd Mondays 8:00 PM - The MARC Ladies Net – All radio amateurs are welcome.

W5MRC repeater (146.740 MHz, offset -0.600 MHz, tone 110.9)

Collin County ARES Nets

Collin County Amateur Radio Emergency Service conducts two training nets each month. You do not need to be an ARES member to participate, all radio amateurs are welcome.

1st Sunday 9:00 PM - Collin County ARES -

K5PRK repeater, 1(47.180 MHz, offset +0.600 MHz, tone 107.2 Hz)

3rd Sunday 9:00 PM – Collin County ARES -

W5MRC repeater, (146.740 MHz, offset -0.600 MHz, tone 110.9 Hz)

LARC Nets

Tuesday 8:00 PM – Open Net - The Lucas Amateur Radio Club holds an informal net open to all Amateur Radio operators.

K5LFD Repeater (442.2125 MHz, offset +5.0 MHz, tone 91.5)

Wednesday 8:00 PM – Simplex Net – An informal repeaterless net on 146.54 MHz to gauge the effectiveness of our VHF capabilities.

GARC Nets

Thursday 8:00 PM – Info net – The Garland Amateur Radio Club holds an informal net open to all amateur radio operators. The net begins with check in and general announcements, followed by general discussion.

K5QHD Repeater (146.66 MHz, PL Tone 110.9 Hz, Offset -0.600 MHz)

North Texas Hospital Net

North Texas Hospital radio club weekly nets check in with area hospitals. Friday mornings (time TBD 8:30 am or 9 am). Jimmy Dominguez is NCS. 442.400/146.700. Regular splits PL tones 110.9/110.9. All are welcome to check in from your QTH as individual.

Attention; The North Central Texas Healthcare ARC net begins at 0830 Friday and moves to 146.700, the past Fridays the 146.700 repeater has been down, with uncertainty when the 146.700 repeater will be back online, the North Texas Central Healthcare ARC will only have the 442.400 portion of the net.

HF Nets

[Search for 100s of nets.](#)

[On-Air Net Scraper](#)

Daily Net 11:00 AM – 9:00 PM – The Maritime Mobile Service Network – Any licensed ham (General Class or higher) can check in. This net is focused on assisting those who are maritime mobile and over the years, several distress calls have been handled by this net.14.300

Sunday 2:00 PM – Amateur Radio Satellite Net - Open net for licensed amateur satellite discussion and updates 14.282

Daily Net – OMISS – Focused on awards, particularly Worked All State (1:30 PM frequency 14.290) (8:00 PM frequency 7.185)

Many more nets are listed here <http://ac6v.com.htm>

Overland Bound

Weekly Net Every Friday night at 7:30 PM Central Time – A net for people who like to explore and take part in overland camping – hosted on the USA Grits-N-Gravy Conference Server (USA-GNG)
Echolink Node: 591550 <http://www.usagritsngravy.net>

Daily 60 Meter Net 12:30 PM –

Test your 60 Meter capability on Channel 1 5332.0 MHz (5330.5 MHz window freq).

If you want to list your favorite net please send as much information as you can to newsletter@k5prk.net

What is Amateur Radio (Ham Radio?) from ARRL

(Thanks Johnnie Young)

Amateur radio is a multifaceted hobby that includes people around the world. There are about 740,000 ham radio operators in the US. The FCC has allocated [30 different frequency bands](#) from 135 KHz to greater than 275 GHz to amateur radio operators. These frequency bands are used for many different aspects of the hobby.

Some videos describing Amateur Radio:

<https://youtu.be/ysOq6ywTSzU>

<https://youtu.be/rs0i0h4OyMo>

https://youtu.be/5Z9136_Nhh4 - Classic Walter Cronkite video

Licensing:

There are [3 levels of ham radio licensing](#) in the US, Technician, General and Extra. Each level requires passing a multiple choice exam. The questions used for these exams are all [published on the web](#).

Study Aids:

Students can study for their license exam(s) in several different ways.

- Take a class
- Study training books. These are two of the most popular
 - [ARRL Technician Study Guide](#)
 - [Gordon West 2018 to 2022 Technician Class](#)
- View video classes
 - https://youtu.be/RGluTpM7_K8
 - https://www.youtube.com/watch?v=N6aFXH_SQUo&list=PL07A7D1C9D7BF7F48
- Take practice Exams
 - <https://www.eham.net/exams>

Taking the Exam:

Exams are offered by many clubs [around the metroplex](#).

Other Ham Radio Related Links:

Sachse Radio Club: <http://www.sachseradio.org/>

Largest/Oldest Ham Radio Org: <http://www.arrl.org/home>

Local Ham Radio Outlet Store <https://www.hamradio.com/locations.cfm?storeid=20>

Finding a nearby Club: <http://www.arrl.org/find-a-club>

Ham Radio Mesh Network: <https://www.arednmesh.org/aredn-advantage>

Amateur Radio Satellites: <https://www.amsat.org/>

Ham Radio Repeaters: <https://www.repeaterbook.com/>

Other videos:

HAM Radios: Quick and Easy Way to Get Into HAM Radio Hobby: <https://youtu.be/t0sMDRLGB3Q>

HAM Radio Basics- HAM 101: <https://youtu.be/Ow1hxClR5J8>

Numerous Dave Casler Videos: <https://www.youtube.com/channel/UCaBtYooQdmNzq63eID8RaLQ>

SPACE STATION CREW USES HAM RADIO TO CALL EARTH <HTTPS://YOUTU.BE/H73EYCYSZF8>

Listen to episodes of ARRL Audio News on your iOS or Android podcast app, or online at <https://blubrry.com/arrlaudionews/>

Various Ham Radio Activities:

- Local/Regional communications
- World wide communications using Digital network linked repeaters
- World wide radio to radio communications
- [Contests](#) – Making as many contacts as possible
- Fox hunts – Finding a hidden transmitter
- Amateur Radio Satellite
- Supporting local events
- Races (marathons, bike races, etc.)
- Plano balloon festival
- Parades
- 4th of July events
- Extending RC aircraft video and telemetry
- Amateur Radio Emergency Data network (Network when the grid goes down.)
- Winlink – Email via ham radio
- Skywarn – Storm spotters (Most storm spotters report via ham radio.)
- Amateur Radio Emergency Services (ARES)
- Radio Amateur Civil Emergency Services (RACES)
- Antenna design/building
- CW (Morse code) communications
- DXpeditions – Location in an remote area (usually islands) for a short period of time and making as many contacts as possible.
- Summit On the Air – Transmitting from mountain summits
- JOTA - Jamboree-on-the-Air – Boy Scouts
- RF experimentation. Many [Maker groups](#)
- [High altitude balloon experiment.](#)

**PLANO AMATEUR RADIO KLUB
Application for Membership**

Klub year is from January 1st to December 31st

Annual KLUB Membership (Individual) \$30.00/Year _____
Annual KLUB Family Membership \$40.00/Year _____
Student Membership (18 and Under) \$ 5.00/Year _____

Half year is from July 1st to December 31st

Klub Membership (Individual)..... \$15.00/half Year _____
Klub Family Membership \$20.00/half Year _____

For The Treasurer Only

Total Amount Paid (Circle One: Cash or Check # _____) \$ _____

Name: _____ Call Sign: _____

Address: _____ Apt: _____

City: _____ State: _____ ZIP: _____

Home Phone: _____ Work Phone: _____

Email Address: _____

Occupation: _____ Birthday: _____

The PARK Roster is given to KLUB Members Only. Please circle any information that you do not want published.

License Class: _____ Expiration Date: _____

Previous Call(s): _____ First Licensed: _____

Call Sign(s) of Other Family Members: _____

ARRL Member? _____ ARES Member? _____

Other Hobbies and Interests: _____

Reason(s) You wish to join PARK: _____

The Plano Amateur Radio Klub (PARK) is an organization which thrives on the support and participation of ALL KLUB Members. Volunteers are needed regularly for the support of KLUB activities, manning technical projects, staffing organizational or social committees and providing communications for public service events.

Are you willing to stand for election to a PARK Office and/or Director Position? Yes ____ No ____

Will you agree to support PARK, to keep it strong and thriving? Yes ____ No ____

Signature _____ Date _____

PARK Secretary Only:

Date of Application: _____

P.A.R.K.
P.O. Box 860435
Plano, TX 75086-0435

or send via email to secretary@k5prk.net

PLANO AMATEUR RADIO KLUB
GENERAL MEMBERSHIP MEETING
MEETING MINUTES – FEBRUARY 19, 2024

1902 HRS start of meeting

30 attendees

21 Members

9 Guests – including our Guest Speaker

Tim Johnson, K5TCJ – President opened the meeting

- Welcome
- Pledge of Allegiance
- Roll Call by First Name and Callsign
- Change / Addition to the Logo

Anthony Bourkas, KB3DVS – Vice President

- Tonight's presentation: GMRS
 - By Jerry Jones, President of Dallas County REACT

Sean Kelly, W5SPK – Secretary

- Many thanks to Johnnie Young, KG5CQO for assistance in loading Ham Club On-Line. Everyone is up to date from the Christmas Party.
- BOD Meeting Minutes are posted.
- Sean read a list of individuals from whom we need select information to complete membership records.
 - Emails have been sent
 - Johnnie Young assisting Sean Kelly with this task.
- Unable to post January Meeting Minutes as we have exceeded our storage capacity on Groups.io.
 - Sean, W5SPK will not add/delete/change storage without agreement from the BOD.
 - Topic of discussion for next Board Meeting on 3/4/2024.

Mike Tharp, KG5TJF – Treasurer

- Total Funds - \$13,050.10
 - Detail
 - Bank Account: \$12,342.10
 - PayPal: \$ 0.00
 - Cash: \$ 708.00
 - Total: \$13,050.10
 - Pre-approved Expenses: \$ 5,036.91
 - Balance: \$ 7,075.83
 - Reserves: \$ 4,000.00
 - Available: \$ 3,876.83

Dick Thiot, N5FCB – Communications Director

- Installation of Cabinet on the roof at Medical Center Plano in March / April of 2024

Neil Gould, NE5IL- Newsletter

- Always looking for help and adds for the monthly newsletter.
- Mention of solar eclipse activity and amateur radio.
 - Watch for listing of activities

James McCormick, KG5KBP

- No report. Not present at the meeting.

Sam Parsons, W9VPU – Public Relations

- QSL Cards are going on a color printer.
- Sam Parsons and Tim Johnson are looking for a few good men to help with this task.

Richard Seitz, KG5HCJ – Activities Director

- Monthly meeting
- BOD Meeting
- Winlink Wednesday
- ARES Training – 2x per month on Sunday evenings
- Foxhunts – 2x per month on Saturdays
- Casual Net on Wednesday evenings

Daryl Morgeson, AF5QJ

- One person sat for testing and passed.

Field Day

Mike Tharp, KG5TJF led discussion on 2024 Field Day

- Dates: June 22 -23, 2024
- Confirmed returning to full two-day event
 - Five required for overnight work (and safety)
- Location: Russell Creek Park
- A motion was made to approve \$600 for Field Day
 - Unanimously approved by the General Membership

No OLD Business

NEW Business

Five applications made membership to the club. These need to be voted on at the next General Membership Meeting

1. Mark Morgan, KE5FIJ of Allen, Texas
2. Ryan Recsnik, KW0E of Wylie, Texas
3. Jay Spears, KI5YGG of Irving, Texas
4. Lonnie Webb, KG5WHQ of Richardson, Texas
5. Kim Walter, KI5ZOT of Addison, Texas

15 Minute Break

50/50 Raffle – Kevin Grantham, N5KRG won \$24.00

Tonight's program: GMRS Radio Technology, Spectrum Assignments, and Usage

Presenter: Jerry Jones, President of Dallas County REACT

- 50 years of experience in radio
- Fellow Ham (call not captured)

Adjourn at 2028 HRS by unanimous vote

Anticyclonic - Rotation in a clockwise direction when viewed from above, similar to a high pressure area. Anticyclonic features rotate from right to left when viewed from the ground.

Anvil - The flat, spreading top of a cumulonimbus, often shaped like a blacksmith's anvil.

Beaver(s) Tail - A low cloud band with a relatively broad, flat appearance suggestive of a beaver's tail. It is attached to a supercell's updraft base and extends to the east or northeast.

Clear Slot - A local region of clearing skies or reduced cloud cover, indicating an intrusion of drier air. A clear slot is often seen on the west or southwest side of a wall cloud and is visual evidence of a rear flank downdraft.

Cyclonic - Rotation in a counterclockwise direction when viewed from above, similar to a low pressure area. Cyclonic features rotate from left to right when viewed from the ground.

Downburst - A strong downdraft resulting in an outward burst of damaging winds on or near the ground. Sometimes called "straight-line winds," downbursts may be large (macroburst) or small (microburst) in scale.

Downdraft - A column of air that rapidly sinks toward the ground, usually accompanied by precipitation as in a shower or thunderstorm.

Flanking Line - A line of cumulus, or towering cumulus, clouds connecting to and extending outward from the most active part of a supercell, normally on the southwest side.

Flash Flood - A rapid rise of swift-moving water, resulting in a threat to life and property. Flash floods can occur within minutes or hours of excessive rainfall.

Flash Flood Warning - An urgent weather product indicating a flash flood is imminent or occurring.

Funnel Cloud - A condensation funnel extending from the base of a thunderstorm, associated with a rotating column of air that is not in contact with the ground.

Gust Front - The leading edge of a thunderstorm downdraft that is often marked by a wind shift and gusty winds. Gust fronts are sometimes associated with a shelf cloud or roll cloud.

Gustnado - A surface-based circulation associated with thunderstorm outflow. Gustnadoes are not associated with updrafts and are not attached to cloud bases, so they are not considered true tornadoes.

High Precipitation (HP) Supercell - A supercell with a large amount of visible precipitation encircling the mesocyclone. HP supercells can be difficult to observe visually, as the precipitation often obscures the updraft-related cloud features.

Inflow Bands - Bands of low clouds, arranged parallel to the low-level winds, that move into or toward a thunderstorm. They may indicate the strength of the inflow of moist air into a storm, as well as a storm's overall intensity.

Low Precipitation (LP) Supercell - A supercell with little visible precipitation falling from it. LP supercells often have flared-out updraft towers with striations, thus they are easy to recognize visually. However, they can be difficult to detect on radar.

Mammatus Clouds - Rounded, smooth, pouch-like protrusions hanging from the underside of a thunderstorm anvil. Mammatus clouds often accompany severe thunderstorms, but do not produce severe weather.

Mesocyclone - A rotating updraft within a thunderstorm that is typically 2 to 6 miles in diameter. Mesocyclones are often found in the right rear flank of a supercell or on the front flank of an HP supercell.

Multiple-Vortex Tornado - A tornado in which two or more condensation funnels or debris clouds are present and often rotate around a common center or each other.

Overshooting Top - A dome-like protrusion above a thunderstorm anvil, representing a strong updraft.

Power Flash - A blue-green flash that is often a visual indication of damaging winds.

Rain Foot - A horizontal bulging of a precipitation shaft near the ground, forming a foot-shaped prominence. It is a visual indication of strong outflow winds.

Rain-Free Base - A pronounced outward bend of the precipitation shaft near the ground that has a foot-shaped appearance. It is a visual indication of strong outflow winds.

Rear Flank Downdraft - A region of sinking, dry air that wraps around the backside of a mesocyclone. It is often visible as a clear slot wrapping around the wall cloud.

Said - Small, ragged, low cloud fragments that are unattached to the main thunderstorm cloud base but can become part of it.

Severe Thunderstorm - A thunderstorm which produces hail of one inch in diameter or greater, and/or damaging winds of 38 mph (30 kts) or greater, and/or a tornado.

Shelf Cloud - A low, horizontal wedge-shaped cloud, associated with a thunderstorm gust front. The shelf cloud is usually attached to the base of the parent cloud above it.

Special Weather Statement - A weather product used to inform the public of significant weather that does not reach severe storm criteria.

Squall Line - A solid or nearly solid line or band of active thunderstorms. Squall lines typically have updraft areas on the leading edge, above or just ahead of a large gust front.

Striations - Grooves or channels in cloud formations that are arranged parallel to the flow of air and are often observed with a rotating updraft. Striations often indicate the presence of rotation via a barber pole or "corkscrew" appearance.

Supercell - A thunderstorm with a persistent mesocyclone. Supercells are responsible for a high percentage of severe weather events: tornadoes, extremely large hail, damaging straight-line winds, and flash flooding.

Tail Cloud - A horizontal, tail-shaped cloud (not a funnel cloud) at low levels that extends from the wall cloud toward the thunderstorm's precipitation region.

Tornado - A violently rotating column of air in contact with the ground that extends from the base of a thunderstorm.

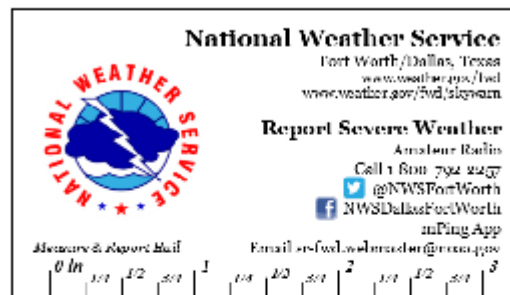
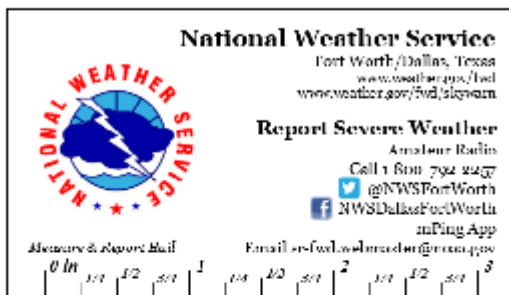
Towering Cumulus - A large cumulus cloud with great vertical development, usually with a cumuliform or cauliflower-like appearance but lacks the characteristic anvil of a cumulonimbus.

Updraft - A column of rising air, often associated with the active portion of a thunderstorm.

Wall Cloud - A localized, persistent, and often blocky or abrupt lowering of cloud from a rain-free base. Wall clouds indicate a strong updraft and are normally found on the south side of a thunderstorm.

Watch - A severe weather forecast product, indicating conditions are favorable for severe weather. Watches typically cover numerous counties and are valid for approximately six hours.

Warning - An urgent severe weather product indicating severe weather is imminent or occurring. Warnings are typically issued on a storm by storm basis and are usually valid for one hour or less.



Helpful tips for printing:

- Use 8x10 paper
- Print on Landscape Orientation
- Make sure the printing size is not scaled up or down (print "Actual size" or "Fit to Paper")
- Print on both sides with "Flip on Short Side/Edge" selected
- Use a ruler to verify the card has printed correctly by measuring the ruler scale on the bottom