

Saturday Morning Coffee and WINGS Drones Are For Manned Aircraft Pilots Too August 10, 2024

By Greg Schulz – MN FAASafety Drone Pro

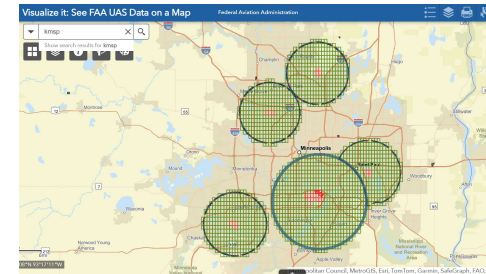


Drones Are For Manned Aircraft Pilots Too

Our Agenda For Today's Discussion



- Introductions – Drones and Manned Aircraft Pilots
- Wide Wide World of Drones and Operators
- Drone Regulations – Certification, Airspace, Operations
- Emerging Topics and Trends – Regulations & Technologies
- Real-world Experiences – Cautionary Tales, Tips & Recommendations
- Resources and Links – Additional Information
- Q&A Discussion



Drones Are For Manned Aircraft Pilots Too

Flying Smart, Flying Safe – FAA Safety Site: <https://www.faasafety.gov/>



Federal Aviation Administration

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Activities, Courses, Seminars & Webinars Maintenance Hangar Pilots Resources

FAA Safety Team | Safer Skies Through Education

Featured Courses: Earn WINGS or AMT Credit by completing one of our featured online courses! Pilot Deviations: Root Cause Analysis Health as a Human Factor: Solvents (AMT) Concurrence: Pilot Self-Briefings for Student and VFR Pilots Part 107 Small UAS Requirement Part 107 Small UAS Requirement - Part 61 Pilots Part 107 Small UAS Initial - Part 61 Pilots DC SFRA

Hot Topics: Possible Assistance Needed

Upcoming Seminars: Thousands of aviation safety seminars take place annually around the nation. Find one near you.

AMT Awards: The AMT Awards program encourages AMTs and employers to take advantage of initial and recurrent training by issuing awards based on training received.

WINGS: By virtue of holding instructor privileges, instructors can validate or give immediate WINGS credit through this portal.

Instructor Portal: Enter Instructor Portal

WINGS Achievements: We are excited to report that 60,101 pilots have earned at least one phase in the WINGS - Pilot Proficiency Program, and these pilots have earned a total of 255,056 phases.

FAASafety.gov: Create an Account | About FAASafety

FAASafety Directory: Search by phone number, first or last name, city or state, position or keyword.

FAASafety Industry Members: FAASafety Industry Members are industries, organizations, businesses and associations that support the FAASafety at a national level and who have a vested interest in aviation safety.

FAASafety YouTube

Offices: Flight Standards District Offices (FSDO) Runway Safety FAA For... Pilots Mechanics Other Aviation Professionals Educators & Students

Forms: FAA Forms Handbooks & Manuals Aircraft Aviation Examiner & Inspector Aircraft Certificates Type Certificate Data Sheets (TCDS) Supplemental Type Certificates

Accidents & Incidents: Accident & Incident Data Preliminary Accident & Incident Data Aeronautical Navigation Products Airport Diagrams (G-CS) formerly the Airport/Facility Directory Terminal Procedures (d-TPP)

Regulations & Guidelines: Advisory Circulars Airworthiness Directives Federal Aviation Regulations (FAR) Orders & Notices Temporary Flight Restrictions Other Popular FAA Sites Airmen Inquiry Airmen Online Services FAA Registry Aircraft Inquiry

U.S. Department of Transportation Federal Aviation Administration 800 Independence Avenue, SW Washington, DC 20591 1-866-TELL-FAA (1-866-835-5322)

Web Policies: Web Policies & Notices Privacy Policy Accessibility

Government Sites: DOT.gov USA.gov PlainLanguage.gov Regulations.gov Data.gov

Contact Us: Help - FAQs Contact Us Hours: Monday - Friday 10:00 AM to 4:00 PM EST faasafety@faa.gov

faasafety.gov/FAASTApp/directory/default.aspx

Select at least one of the following positions in your report

NFM Nat'l Admin RPOC FPM Lead Rep Rep Service Provider Industry Member Unassigned

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Click to Hide Map

Click a State to view find FAASafety leaders by state.

U.S. Department of Transportation Federal Aviation Administration

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Greg Schulz – greg@picturesoverstillwater.com MN FAASafety Drone Pro 6128109890

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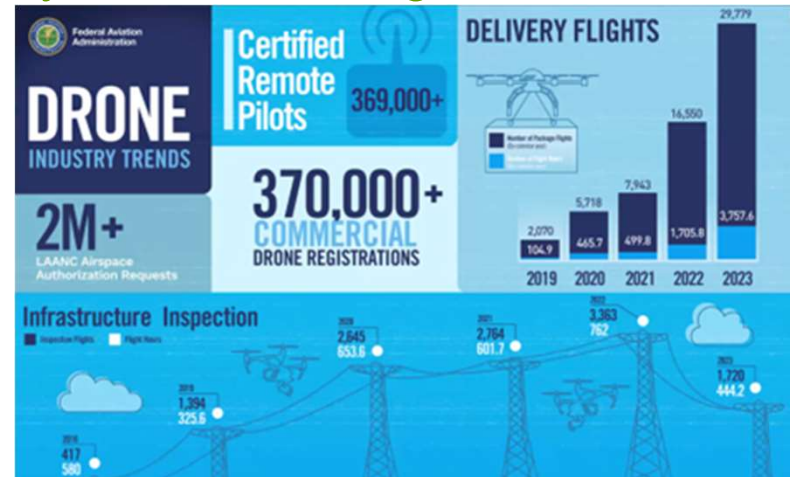
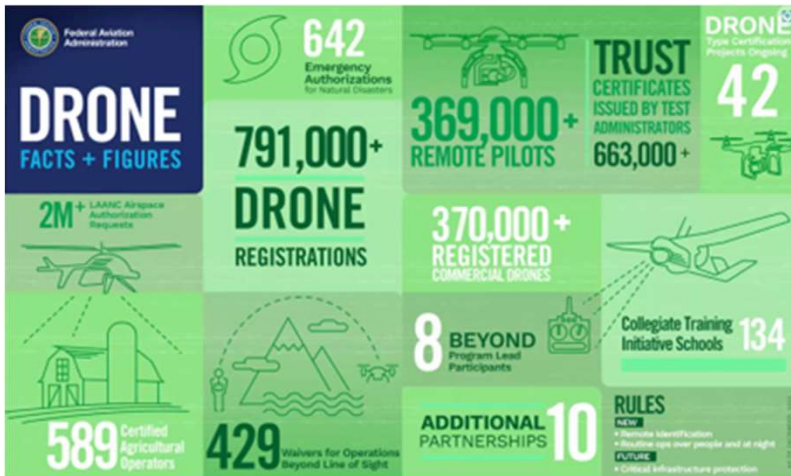
Introductions – Getting Started and Why We Are Having This Discussion



- Our discussion today is to increase awareness and safety of drones, including FAA regulations for hobby/recreational and beyond (e.g. part 107 and others).
- Do you or someone you know have or want to get a small Unmanned Aerial System (sUAS) also known as an Unmanned Aerial Vehicle (UAV) aka a Drone?
- Are you aware of drone regulations such as operating over people (OOP), operating at night, visual line of sight (VLOS) and visual observers (VO)?
- How about DROTAMS (Drone NOTAMS), altitude, weather, airspace, registration and certification topics?
- Did you know if you are a “current” part 61 you can take the FAA part 107 test online for free via the faasafety.gov site?

Drones Are For Manned Aircraft Pilots Too

Introductions – Getting Started and Why We Are Having This Discussion



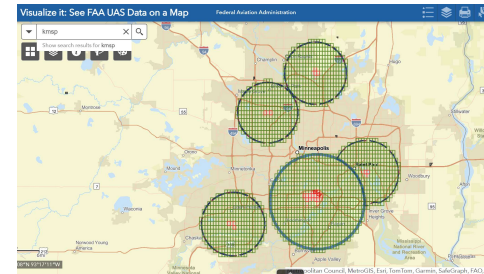
- Drones (e.g. aircraft) and manned aircraft have some things in common including:
 - Sharing the national airspace (NAS) managed by the FAA
 - Having trained certificated operators who operate different aircraft types
 - Have various levels of training, certification, experiences and focus
 - Some drone operators (remote pilots) are not manned aircraft pilots (or students)
 - Some manned aircraft pilots and students are not remote pilots
 - Some manned aircraft pilots and students are also remote pilots

Drones Are For Manned Aircraft Pilots Too

Continuing With Today's Discussion Agenda

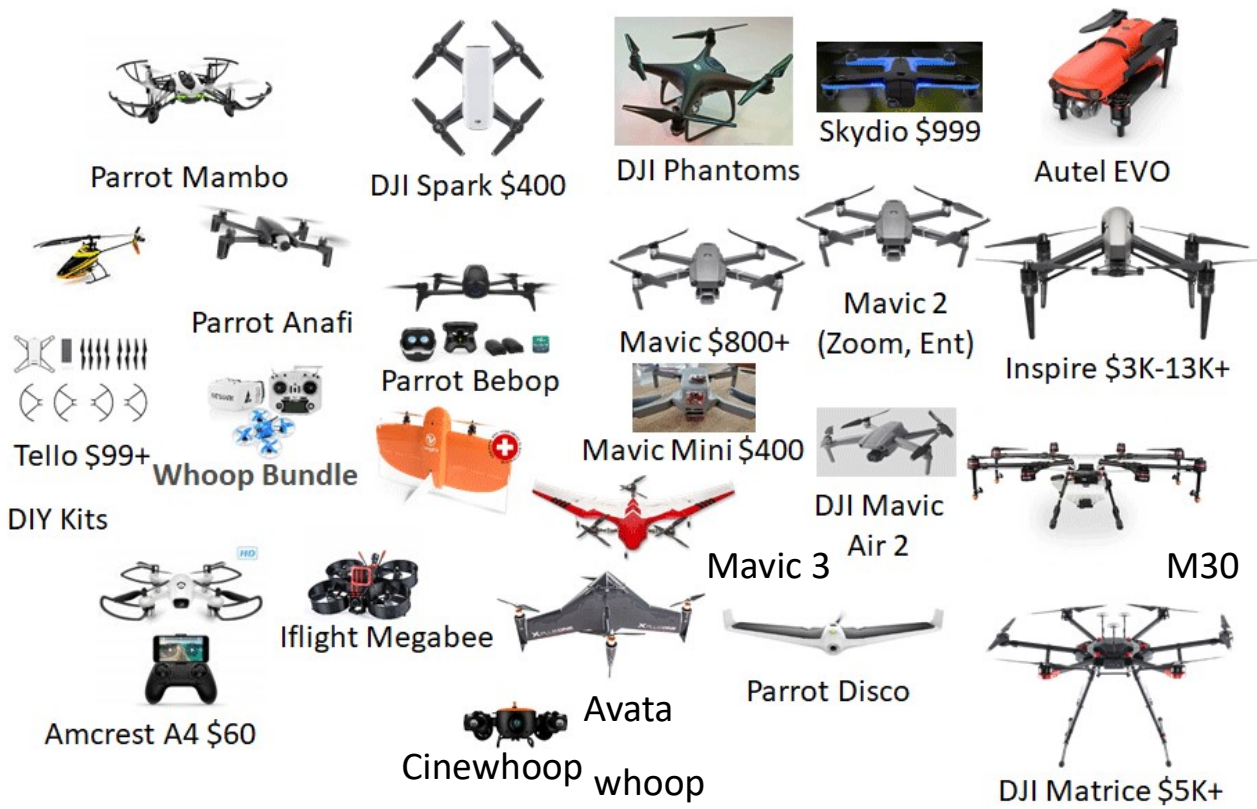


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Wide Wide World of Drones

Sampling of Various Aircraft (Drones) for Different Needs and Uses



Wide World of Drones

- Unmanned, Remote Operated
- Fixed Wing and Rotor
- Single, Dual, Quad, Octa
- Most have cameras
- Some carry payloads
- DIY and Turnkey
- Various functionality
- Different performance
- Some customizable
- Indoor, Outdoor
- FPV racing
- Hobby or commercial
- ***What do you need to do?***

FAA Considers Drones To Be Aircraft

(RC and other un-manned aircraft are considered sUAV/sUAS)

Drones Are For Manned Aircraft Pilots Too

Types of Remote Pilots In Command (RPIC)



National Airspace

Various Types of Pilots for Manned and Un-Manned Aircraft

Examples of Un-Manned e.g. Remote Pilots

Aircraft 0 < 55 Pounds

Part 107

FAA Considers Drones To Be Aircraft

Heavier Drones

55 pounds & greater

Part 135, 137, etc.

“Carve Out”

Hobby/Recreational

44809

CBO Based Certification
(Following FAA Guidelines)

The Recreational UAS Safety Test (TRUST)

Basic Drone Safety and Awareness

Registration for aircraft > .55lbs (>.249g)

* COA for LEOs

Additional Training

FAA Administered Test

Recurrency every 2 yrs

Additional flight rights

Waivable Regulations

All Aircraft Registered

Additional Qualifications

For operating larger aircraft

Aerial Spraying/Dusting

Certain Delivery/Transport

Other special considerations

Drones Are For Manned Aircraft Pilots Too

Types of Remote Pilots In Command (RPIC)



RC and other un-manned aircraft are considered sUAV/sUAS

Whats Your Intent/Objective

FAA Considers Drones To Be Aircraft

Hobbyist/Recreational
(e.g. TRUST cert & CBO
Fly just for fun, not for work or anyone else or betterment)

Non-Hobby
(Part 107, Commercial & Fun
For others & Betterment
Ability for waivers & privs.
MnDOT License/Reg in MN)

Registration

No < 250g (.55lbs)
Yes >= 250g

RID = Yes if registered

Operating Regulations

Registration

Yes 0 to 55lbs
RID = Yes

Where to Fly

Airspace - UAS Regs, TFRs - FAA
Ground – Private, City, Cty, State, Fed

What & Where Is Your Subject

Weather Conditions

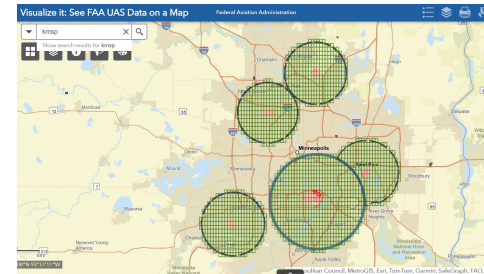
Day, Night, Wind
Clouds, Visibility

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Basic Drone Regulations

License (Certification), Registration, Insurance



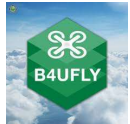
- License/Certification TRUST for Recreational/Hobbyist (Its Free via AMA and others)
Part 107 (Fee for Initial, recurrence free via faasafety.gov)
Part 107 initial is free for “current” part 61 (via faasafety.gov)
Question: We are a non-profit and only capture images for our website, do we need to be part 107? If the imagery provides betterment for your organization Yes.
Question: Do we need to have your license or certification with us when we fly? Yes, especially for part 107 and if asked by LEO provide your license/cert card and picture ID.
Question: Does this Drone stuff apply if flying indoors? Outdoors
- Aircraft Registration FAA required for all Part 107 aircraft (some states require reg)
Also required for Hobbyist aircraft > 249 grams
Question: Does Mavic Mini (249g) need registration? Yes for part 107
- Insurance Liability needed for Minnesota (e.g. MnDOT requirement)

Basic Drone Regulations

Basic sUAS Reminders – Authorizations, See, Been Seen and Avoidance



B4UFLY



Free app and links to other useful apps for drone flight planning and operation including Low Altitude Authorization Notification Capability (LAANC) for airspace authorizations.

Recurrency

TRUST is Lifetime (Unless you lose your card)
Part 107 every two years retest (its free at FAASafety.gov)

Bright Strobe Lights

For night flights, bright strobe light visible 3nm away. Suggest using white as blue tends to blend in with night sky.

Don't Interfere

With manned aircraft, or emergency first responders

Don't call airport

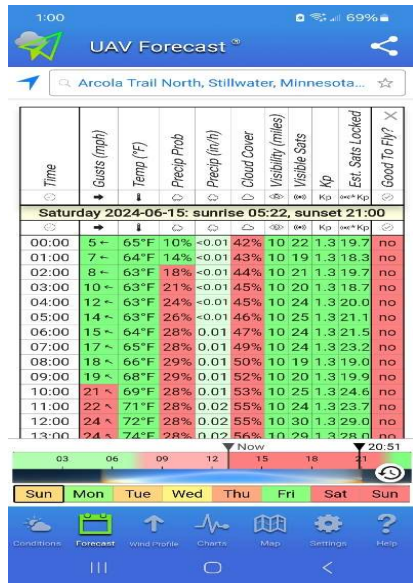
Don't Call the Tower for airspace authorization unless explicitly told to do so as part of a waiver or special authorization. Use LAANC based app (Aloft, UASidekick, others) or FAA Drone Zone website for airspace authorizations <https://faadronezone-access.faa.gov/#/> (Also use Drone Zone for registration & waivers)

Basic Drone Regulations

Watch The Weather – See and Be Seen, Fly Safe



UAV Forecast App



Keep an eye on the weather before and during flights
Rain, sleet, snow, fog, Air Quality Index (AQI), haze, smoke
Temperature – Absolute and heat index/wind chill
Wind – Surface and at altitude, steady and gusts, direction
Also 1800wxbrief.com & aviationweather.gov



Drone Weather Reminders:

Ask yourself is it safe to fly, see and be seen?

Use visual references & various apps, watch KP factor & sat coverage.
Stay 500' below clouds, 2000' horizontal from clouds,
3 statute mile visibility, e.g. basic Visual Flight Rules (VFR)

Question: Can you fly drones at night? Qualified Yes

Question: Can you fly during rain & snow? Remember 500' below clouds, with 2000' horizontal distance from clouds and 3 sm visibility.

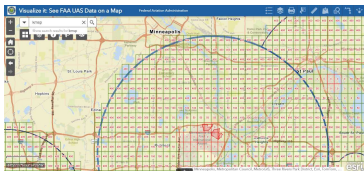
Basic Drone Regulations

Altitude, Airspace Authorizations and UAS Facility Map Grids



Altitude

400AGL absolute or published altitude for given airspace
(Refer to UAS Facility Map Grids for absolute altitudes)



Question: Can Hobby drones fly in controlled airspace? With Authorization

Question: What about part 107 flying higher? With a waiver, **OR**, if within 400' of structure **AND** no higher than 400' above structure **AND** only for part 107 **AND** only in uncontrolled airspace).

Question: What if you need to go higher than published altitude in given location? Request via LAANC or DroneZone which might take longer.

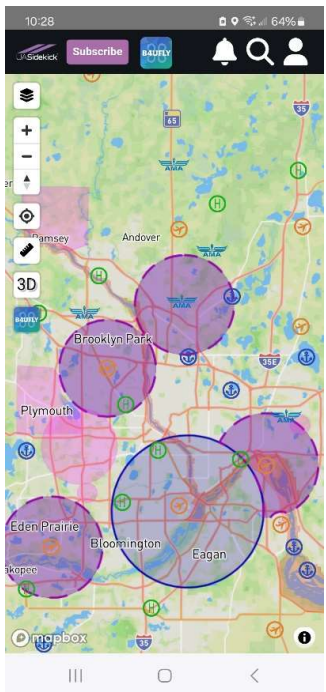
Question: Can TRUST/Hobby Rec operator fly above 400' AGL? No

Question: Can other operators see if a LAANC is in same area? No

Question: Can multiple people have LAANC for same area? Yes

Question: Does a LAANC authorization trigger a DROTAM? No

Question: Does a DROTAM infer a LAANC authorization? No



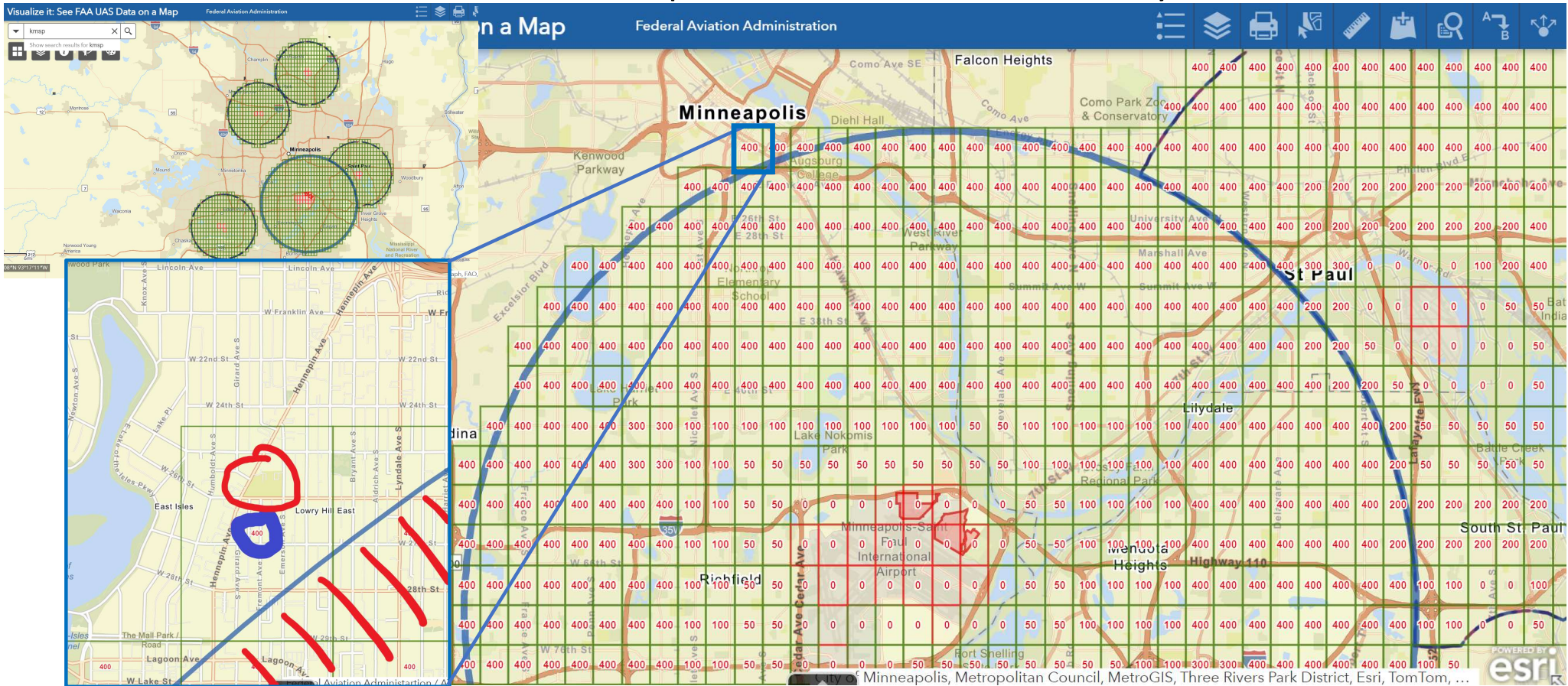
Basic Drone Regulations

Altitude, Airspace Authorizations and UAS Facility Map Grids



Faasafety.gov

Via FAA Visualize It – To Get LAANC Airspace Authorization Use B4UFLy, Aloft, & Others



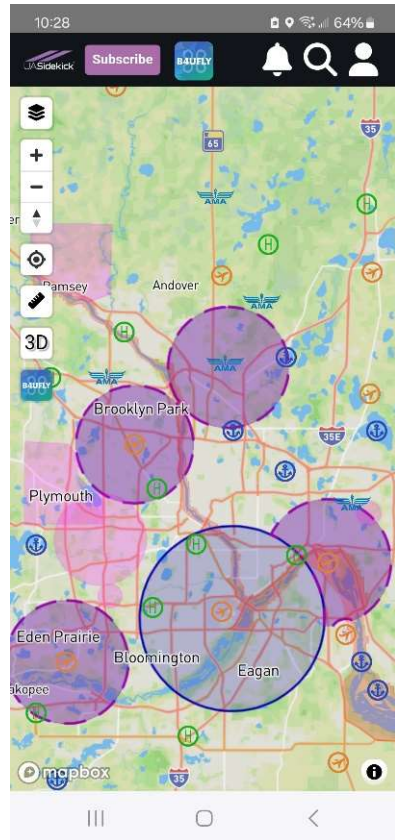
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Basic Drone Regulations

Altitude, Airspace Authorizations and UAS Facility Map Grids



Airspace



Authorization is needed for Drone operation within controlled airspace (e.g. use LAANC provider [Aloft Aircontrol, UASidekick, many others] or DroneZone. Note you might also need an DJI Unlock code (a special code to allow aircraft (Drone) to fly in a given area).

Question: How long does it take to get airspace authorization? Seconds unless continuing (extra special) authorization required.

Question: Can Drones Operate near airports? Depends upon airspace

Question: Do TFRs apply to Hobby/Recreational & FPV Drones? Yes

Question: Do FPV drones need airspace authorizations? Yes if operating outside a FRIA in controlled airspace.

Question: Do Drones broadcast ADSB? No, however some can receive ADSB-In on their remote control stations.

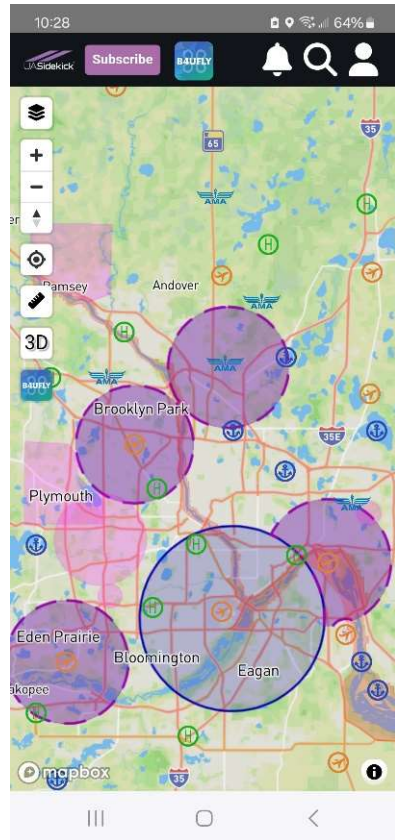
Question: Whats a FRIA? FAA Recognized Identification Area where hobby recreationalist can fly without RID.

Basic Drone Regulations

Altitude, Airspace Authorizations and UAS Facility Map Grids



Airspace



Note: Drones tend to be affected by more TFRS

Question: What's a TFR, how do I find them? Temporary Flight Restrictions appear on various apps as well as FAA TFR sight (See resources). TFRs are for security (POTUS/VPOTUS), safety as well as events. Some examples of non-security TFRs include NFL, MLB, NCAA Football games, NASCAR races. Other examples include some gatherings, emergency situations (e.g. train derailment, major crash, fire, wild fires among others). Expect many TFRS now through fall 2024.

Question: Do Drones need to issue a NOTAM/DROTAM? Only if there is a waiver requirement to do so. However it is a good best practice to do so to help manned aircraft awareness.

Question: What if I see something that does not look right? Contact LEO or FSDO or use NASA ASRS <https://asrs.arc.nasa.gov/uassafety.html>

Basic Drone Regulations

Drone NOTAM (DROTRAM) Example



Via Skyvector.com



Go Flight Plan 17:31:49 Z N44°20.56' W91°59.14' Layers Link Sign In

World Hi Enroute H-2 World Lo World VFR Enroute L-28 Green Bay

NOTAM UAS Operating Area PNM_05/055
DEFINED AS 25NM RADIUS OF 435932N0915158W (8.3NM SW ONA)
SFC-1570FT (SFC-200FT AGL) DLY 1000-0300 202405061000-202411010300.

Close

UAS Operating Area IKK_06/105
Effective: 6/14 10:13Z to 10/31 22:47Z
From SFC to 200AGL
Valid for 85 days

Map Data ©2024 SkyVector, ARINC, OpenStreetMap

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Basic Drone Regulations

Basic sUAS Reminders – TFRs, NOTAMS and DROTAMS (Drone NOTAMS)

Via notams.aim.faa.gov/notamSearch/nsapp.html#/

Also see tfr.faa.gov/tfr2/list.html

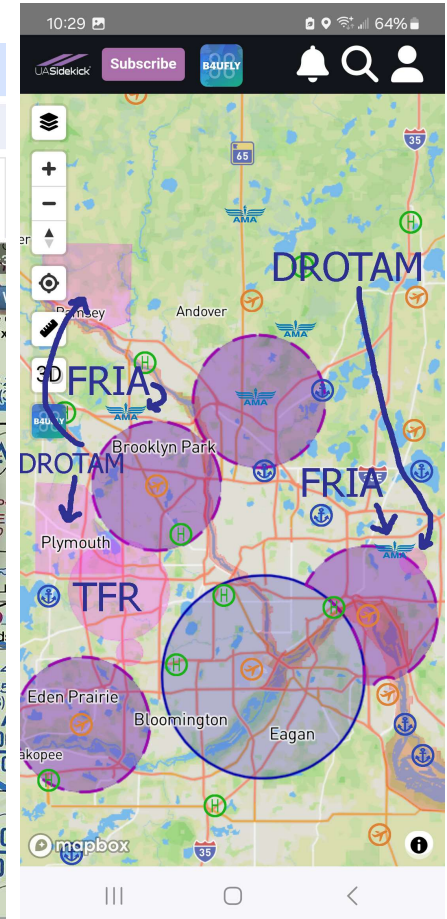
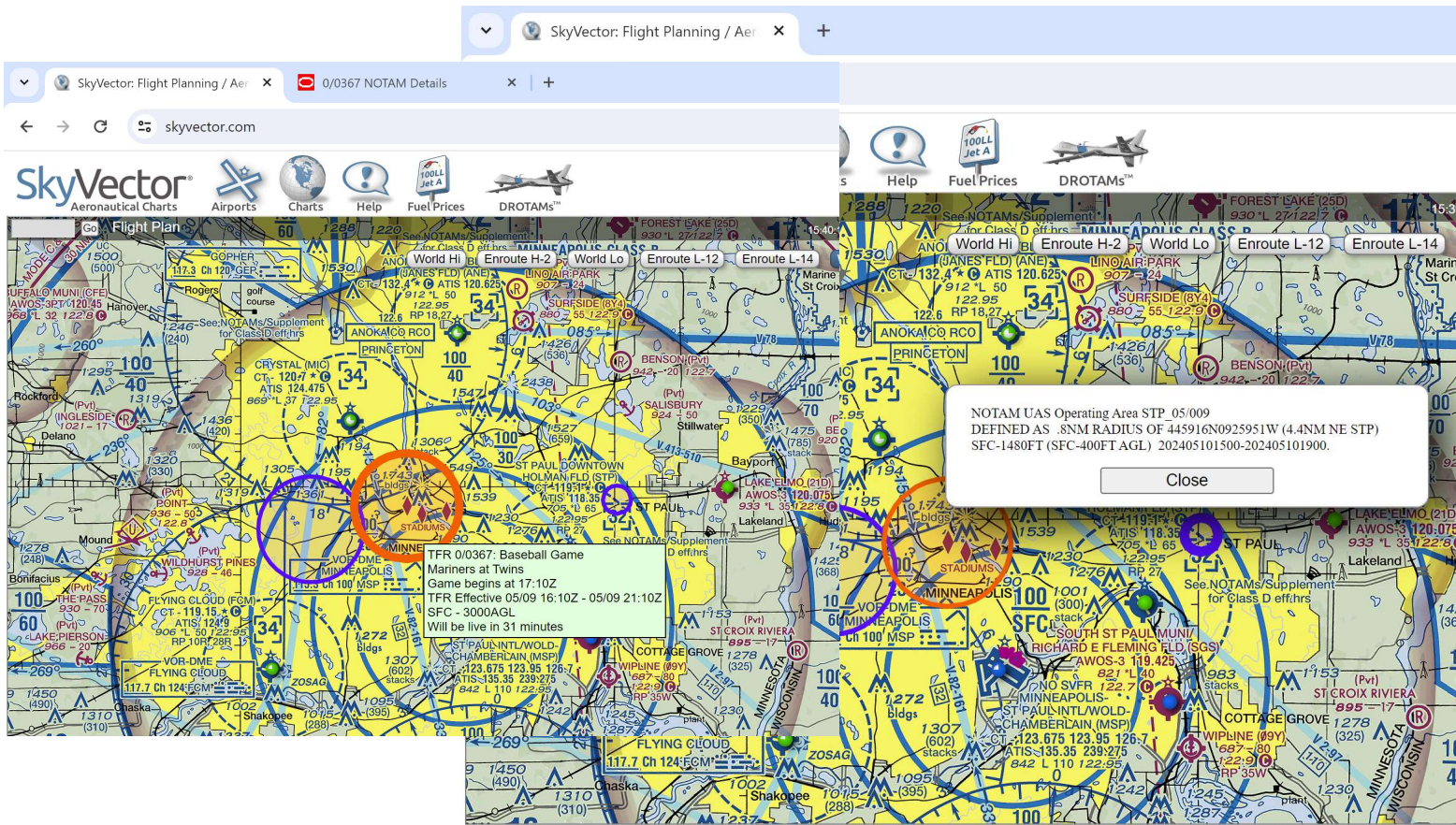
The screenshot shows the FAA NOTAM search interface. The search criteria are: Location: STP, 16 NOTAM(s) found. The search results table is as follows:

Location	Number	Class	Start Date UTC	End Date UTC	Condition
STP	04/012	Obstruction	04/25/2024 1200	04/24/2026 2200	OBST CRANE (ASN 2023-AGL-12598-OE) 445719N0930522W (1.8NM NW STP) 899FT (130FT AGL) FLAGGED AND LGTD 2401231920-2405152300
STP	3/8113	Procedure	12/20/2023 1634	12/20/2025 1634EST	SID STP 13: STP
STP	4/7458	Procedure	04/05/2024 1921	09/30/2024 1921EST	ODP STP PROCEDURE
STP	04/006	Obstruction	04/11/2024 0111	08/09/2024 0111	STP OF U/S 240
STP	03/001	Obstruction	03/05/2024 0600	07/03/2024 0600	STP OF U/S 240
STP	05/002	Services	05/01/2024 1238	05/30/2024 2000EST	RWY 3: STP
STP	05/003	Services	05/01/2024 1239	05/30/2024 2000EST	RWY 1: STP
STP	03/034	Obstruction	03/26/2024 0240	05/26/2024 2359	OBST TOWER 240326
STP	01/072	Obstruction	01/23/2024 1920	05/15/2024 2300	OBST CRANE (ASN 2023-AGL-12598-OE) 445719N0930522W (1.8NM NW STP) 899FT (130FT AGL) FLAGGED AND LGTD 2401231920-2405152300
STP	05/004	Communications	05/12/2024 0400	05/12/2024 1000	COM REMOTE TRANS/REC 121.675 U/S 2405120400-2405121000
STP	05/009	Airspace	05/10/2024 1500	05/10/2024 1900	AIRSPACE UAS WI AN AREA DEFINED AS .8NM RADIUS OF 445916N0925951W (4.4NM NE STP) SFC-400FT AGL 2405101500-2405101900
STP	05/008	Services	05/09/2024 1500	05/09/2024 1800	AD AP RVR ALL U/S 2405091500-2405091800
STP	LTA-M98-17	LTA	02/01/2023 0900	02/01/2025 0859	VFR Practice Instrument Approaches

Basic Drone Regulations

Basic sUAS Reminders – TFRs, NOTAMS and DROTAMS (Drone NOTAMS)

Via Skyvector and UASidekick



Basic Drone Regulations

Basic sUAS Reminders



Visual Line of Sight VLOS is required by the operator and/or Visual Observer (VO)

Question: How far can you fly a drone? As far as you or your VO can directly and safely see the aircraft (attitude, direction, altitude, etc).

Question: Does FPV flown outside a FRIA need a VO? Yes

Remote ID (RID)



DB120 RID Module

Is required for all part 107 operators and their aircraft either standard (built-in) or using an add on module. RID is a “Digital License Plate” for Drones, its not ADSB, its signal is not recorded.

Question: Is RID required for hobbyist/recreationalist? Yes if their aircraft is registered (e.g. weighs more than 259g e.g. about .55 lbs.) and not flying in a FRIA.

Question: Are there tools to see RID information? Yes, Dronetag, Drone Observer, OpenDrone ID and others.

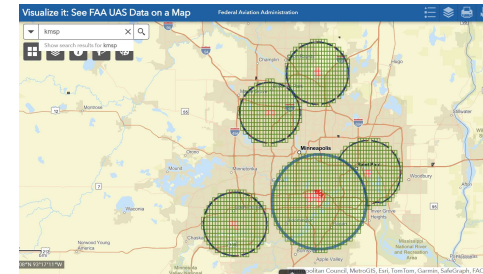
Question: Could a Manned Aircraft Pilot use an RID tracking App to monitor for Drones? Maybe if close enough, not reliably

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Drones Are For Manned Aircraft Pilots Too

New, Emerging Topics and Trends



- OOMV** Operating Over Moving Vehicle (OOMV) requires a waiver
- OOP** Operating Over People (OOP) can be done under certain conditions:
1. With a waiver for part 107, or, based on CBO rules if TRUST
 2. Or, Meet Category 1 requirements for part 107
 - ✓ Standard RID enabled, on and functioning
 - ✓ No exposed rotating parts (e.g. need prop guards)
 - ✓ Aircraft takeoff weight \leq 249 grams including all attached items
 - ✓ No hovering over groups of people or moving vehicles
 - ✓ Maintain VLOS (you need a VO if flying FPV)
 3. Or, Meet one of three other categories for part 107

Question: Can I fly an FPV drone over people? See above conditions

Question: Can DJI Mavic Mini OOP? Adding prop guards would exceed weight limits

Question: Can a DJI Avata cinewhoop OOP? Not without a waiver

Question: Can you operate a drone from another aircraft? Not without a waiver

Drones Are For Manned Aircraft Pilots Too

New, Emerging Topics and Trends



Faasafety.gov

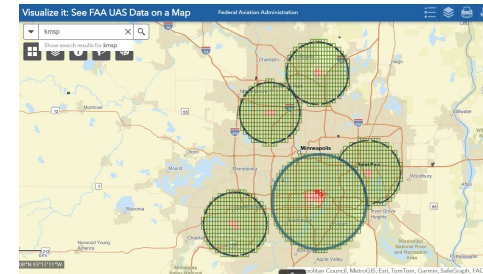
- FAA Re-Auth Bill** The signed bill contains many things affecting all of us. Stay tuned.
- Possible DJI Ban** The Proposed Legislation Is In Congress
 “Might” (TBD) apply to new drones manufactured after a date
 If concerned, don’t enable uploads via DJI (or other manufacture)
 Use 3rd party platforms such as Airdata for logs with direct uploads
 Reach out to congress person and state senators to voice concerns
- Local Regulations** Remember, only the FAA manages the airspace
 Individuals, entities, cities, counties, states can regulate the ground
 Some parks with regulations also have permit process
 Also remember “ground” means where you stand, park, or on water
 There are other local regulations around privacy, recklessness, etc.
 Don’t drone over jails and prisons (there are state and federal laws)

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Drones Are For Manned Aircraft Pilots Too

Real World Experiences, Tips and Recommendations



- Remote pilots are responsible for knowing rules, regulations...
- Remote Pilots stay heads up or have a VO to watch aircraft and watch out for others.
- Remote Pilots yield to aircraft, don't interfere with first responders.
- Help us (remote pilots) help you (manned pilots)...
 - Get your TRUST and/or Part 107 to help generate awareness about safety.
 - ✓ If you are "current" part 61 its free at faasafety.gov
 - Spread the word for others to learn about sUAS, TRUST, Part 107 safety.
 - Remote Pilots should be watching for you (manned pilots).
 - When below 400' we are in the same airspace, we should watch for each other.
 - At events, when flying manned aircraft below 400' assume Drones could be present.
 - Pay attention to NOTAMS & DROTAMS. If you are going to be operating manned aircraft at or below 400' post a NOTAM or DROTAM so remote pilots can keep eyes and ears open watching for you. Call FAA LEIDOS (8774876867) to file Drone DROTAM.

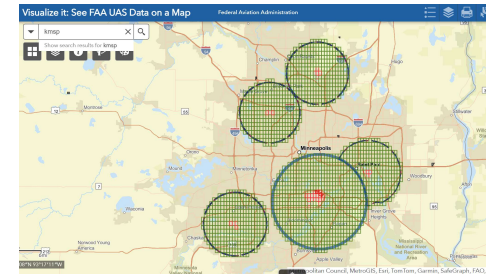


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Flying Smart, Flying Safe – Various Drone Related Resources

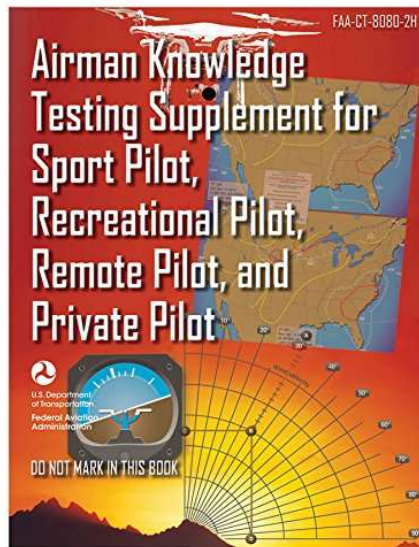


Some Drone Sites and Resources

- FAA Safety Site <https://faasafety.gov>
- Federal Aviation Administration (FAA) Drone sites [Faa.gov/uas](https://faa.gov/uas) & faasafety.gov
- NASA Aviation Safety Reporting System (ASRS) <https://asrs.arc.nasa.gov/uassafety.html>
- Drone registration for Hobby (> .55lbs) and part 107 (anything under 55 lbs.)
<https://faadronezone.faa.gov/#/> (Watch out for fake or over priced sites)
- Rec/hobby 44809 TRUST test (online, its free, follow the links)
https://www.faa.gov/uas/recreational_fliers/knowledge_test_updates/
- B4UFLY (FAA Free App, Info, LAANC authorizations) - faa.gov/uas/getting_started/b4ufly
- DJI Virtual Flight Simulator (Free) - dji.com/downloads/djiapp/dji-virtual-flight
- MnDOT Aviation (Commercial Drone License & Registration dot.state.mn.us/aero/drones)
- Facebook: The Mighty Drones – FPV Drone Racing facebook.com/groups/themightydrones
- Facebook: MN sUAS facebook.com/groups/1860070477555048

Drones Are For Manned Aircraft Pilots Too

Flying Smart, Flying Safe – Various Drone Related Resources



Additional Tools, Apps & Links:

- ✓ B4UFLy and UAV Forecast and FAA Visualize It
- ✓ Aloft App (Air Control) – LAANC
- ✓ FAA TFR Map - tfr.faa.gov/tfr2/list.html
- ✓ [FAA The Recreational UAS Test \(Trust\)](https://www.faa.gov/uas/testing/trust)
- ✓ [Skyvector.com](https://www.skyvector.com) & [vfrmap.com](https://www.vfrmap.com)
- ✓ <https://faadronezone-access.faa.gov/#/>
- ✓ <https://faasafety.gov>
- ✓ [PicturesOverStillwater.com/links](https://www.picturesoverstillwater.com/links)

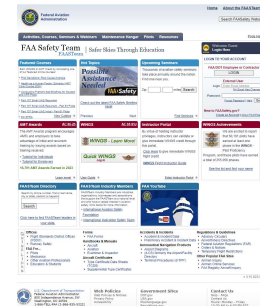
ASA 2024 Test Prep - Via Amazon <http://tinyurl.com/msxv3ws7>

Part 107 Small Unmanned Aircraft Systems (small UAS) Recurrent

<https://www.faasafety.gov/gslac/ALC/CourseLanding.aspx?CID=515>

Part 107 Small Unmanned Aircraft Systems (small UAS) Initial

<https://www.faasafety.gov/gslac/ALC/CourseLanding.aspx?CID=451>

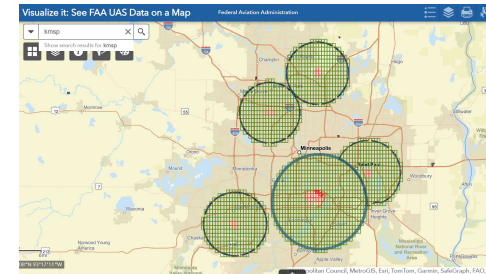


Drones Are For Manned Aircraft Pilots Too

Wrapping Up With Today's Discussion Agenda



- ✓ Introductions – Drones and Manned Aircraft Pilots
- ✓ Wide Wide World of Drones and Operators
- ✓ Drone Regulations – Certification, Airspace, Operations
- ✓ Emerging Topics and Trends – Regulations & Technologies
- ✓ Real-world Experiences – Cautionary Tales, Tips & Recommendations
- ✓ Resources and Links – Additional Information
- Q&A Discussion



Saturday Morning Coffee and WINGS
Drones Are For Manned Aircraft Pilots Too
August 10, 2024

Thank You For Attending

