



14th Flying Training Wing



Cultivate Airmen, Create Pilots, Connect

Mid-Air Collision Avoidance (MACA) Drone Ops



Maj Wes “Dewey” Walsh
14 FTW T-38 FSO
“Instructor Pilot / Flight Safety Officer”



BLAZE



Overview



Cultivate Airmen, Create Pilots, Connect

- **Columbus AFB**
- **Aircraft**
- **CBM Airspace**
- **Low Level (MTR) Awareness**
- **Drone Incidents**
- **Questions?**



Columbus Air Force Base



Cultivate Airmen, Create Pilots, Connect



BLAZE



Columbus Aircraft



Cultivate Airmen, Create Pilots, Connect

Beechcraft T-6A Texan II

Max Speed – 316 kts

Cruise/Pattern airspeed – 200 kts

Final airspeed – 110 kts



Northrop T-38 Talon

Max Speed – 814 kts/ 1.23 Mach

Cruise/Pattern airspeed – 300 kts

Final airspeed – 160 kts



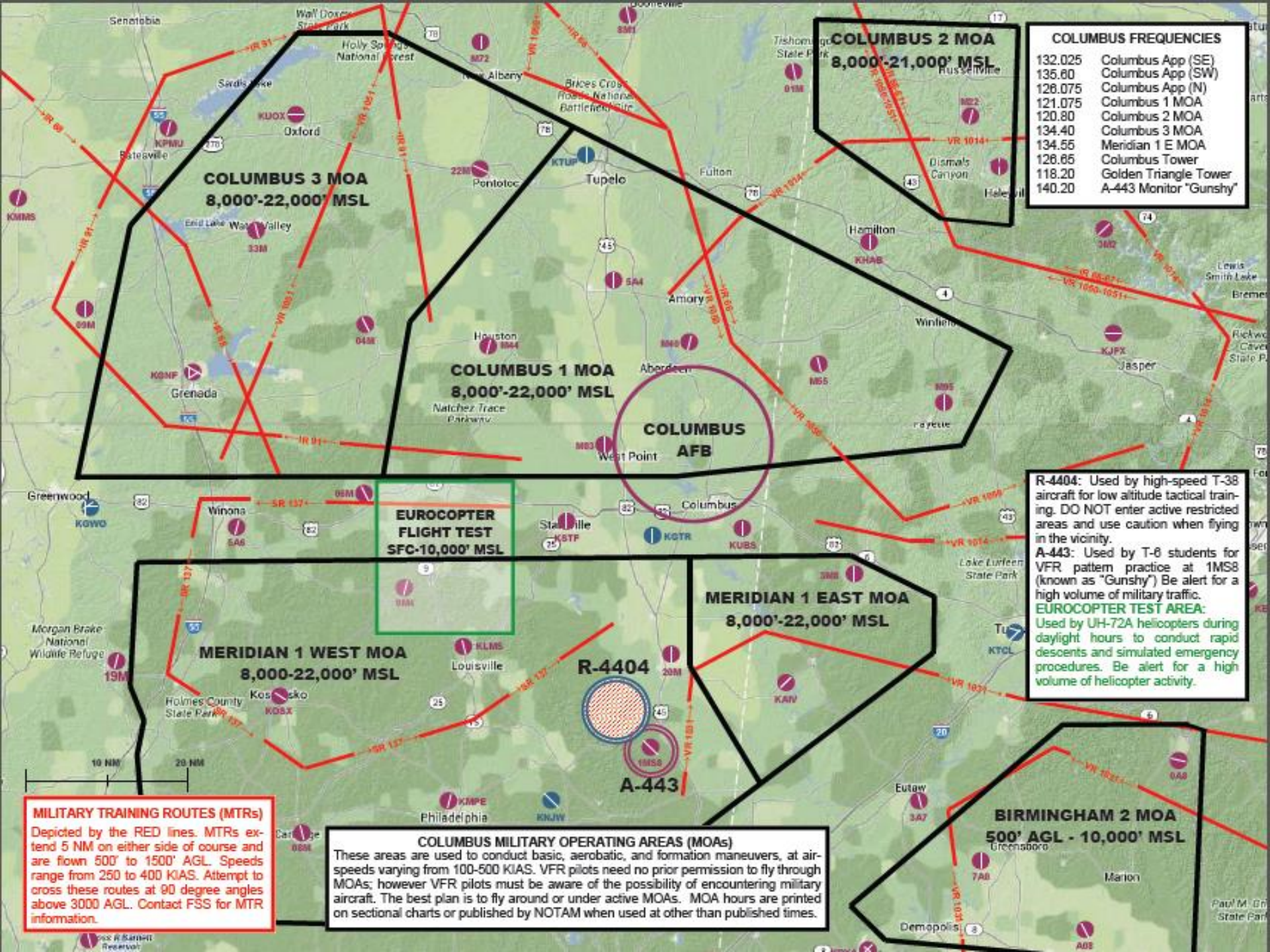
Beechcraft T-1A Jayhawk

Max Speed – 330 kts

Cruise airspeed – 250 kts; Pattern airspeed – 180 kts

Final airspeed – 120 kts

BLAZE



COLUMBUS 3 MOA
8,000'-22,000' MSL

COLUMBUS 1 MOA
8,000'-22,000' MSL

COLUMBUS 2 MOA
8,000'-21,000' MSL

COLUMBUS FREQUENCIES	
132.025	Columbus App (SE)
135.60	Columbus App (SW)
126.075	Columbus App (N)
121.075	Columbus 1 MOA
120.80	Columbus 2 MOA
134.40	Columbus 3 MOA
134.55	Meridian 1 E MOA
126.65	Columbus Tower
118.20	Golden Triangle Tower
140.20	A-443 Monitor "Gunshy"

COLUMBUS AFB

EUROCOPTER FLIGHT TEST
SFC-10,000' MSL

MERIDIAN 1 WEST MOA
8,000'-22,000' MSL

MERIDIAN 1 EAST MOA
8,000'-22,000' MSL

R-4404

A-443

BIRMINGHAM 2 MOA
500' AGL - 10,000' MSL

MILITARY TRAINING ROUTES (MTRs)
Depicted by the RED lines. MTRs extend 5 NM on either side of course and are flown 500' to 1500' AGL. Speeds range from 250 to 400 KIAS. Attempt to cross these routes at 90 degree angles above 3000 AGL. Contact FSS for MTR information.

COLUMBUS MILITARY OPERATING AREAS (MOAs)
These areas are used to conduct basic, aerobatic, and formation maneuvers, at airspeeds varying from 100-500 KIAS. VFR pilots need no prior permission to fly through MOAs; however VFR pilots must be aware of the possibility of encountering military aircraft. The best plan is to fly around or under active MOAs. MOA hours are printed on sectional charts or published by NOTAM when used at other than published times.

R-4404: Used by high-speed T-38 aircraft for low altitude tactical training. DO NOT enter active restricted areas and use caution when flying in the vicinity.
A-443: Used by T-6 students for VFR pattern practice at 1MS8 (known as "Gunshy") Be alert for a high volume of military traffic.
EUROCOPTER TEST AREA: Used by UH-72A helicopters during daylight hours to conduct rapid descents and simulated emergency procedures. Be alert for a high volume of helicopter activity.



Cultivate Airmen, Create Pilots, Connect

T-6 Pattern
1,000' AGL
Overhead
500' AGL
Straight In

BLAZE



Columbus AFB 5 Mile Ring



Cultivate Airmen, Create Pilots, Connect



BLAZE

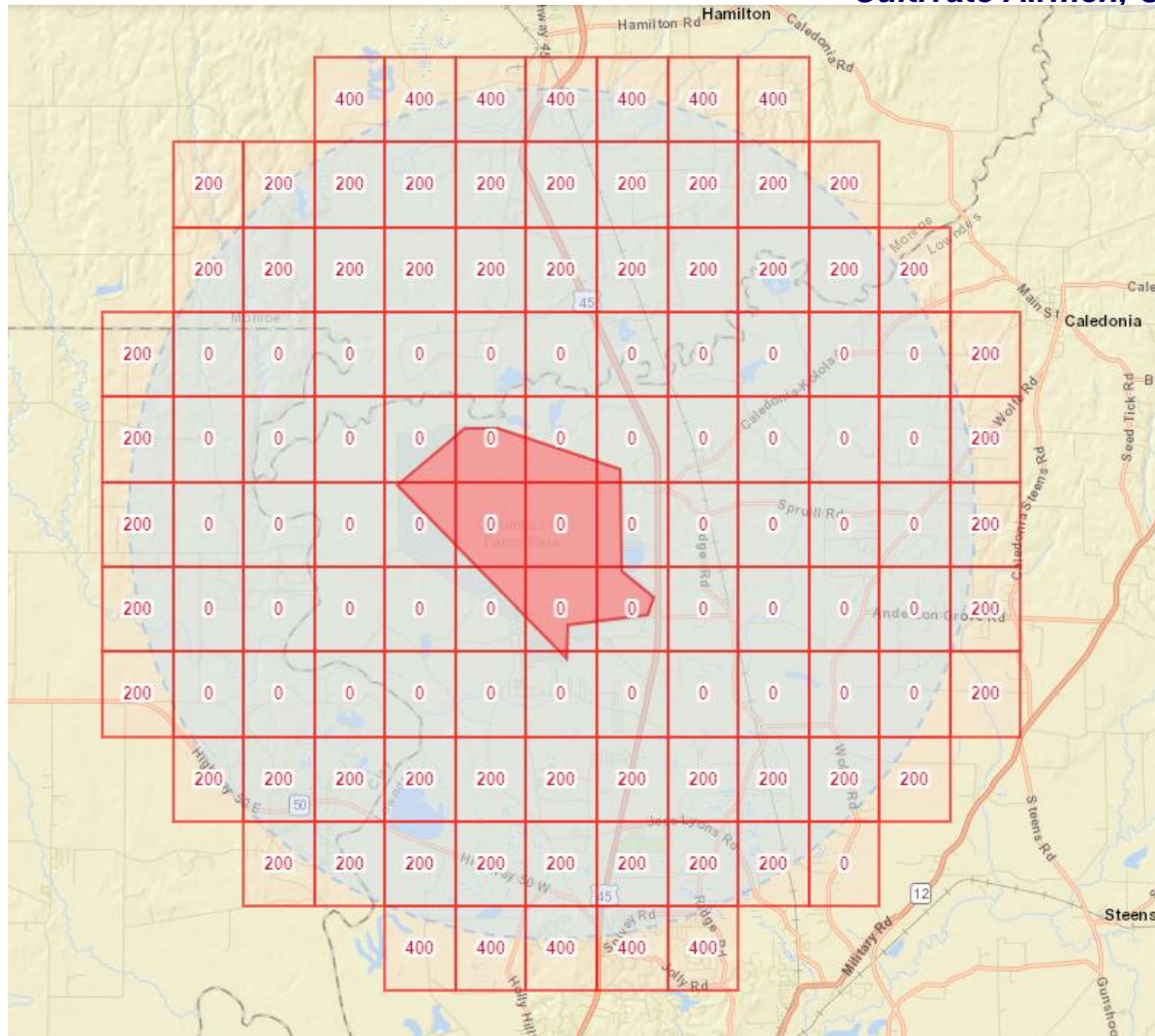


Columbus AFB 5 Mile Ring

(Visualize it: See FAA UAS Data on a Map)



Cultivate Airmen, Create Pilots, Connect



BLAZE



Northern Landmark

Cultivate Airmen, Create Pilots, Connect



Intersection of Kerr McGee Rd and Old Hwy 45 or Tronox Inc

~5.1 mi north of AFB

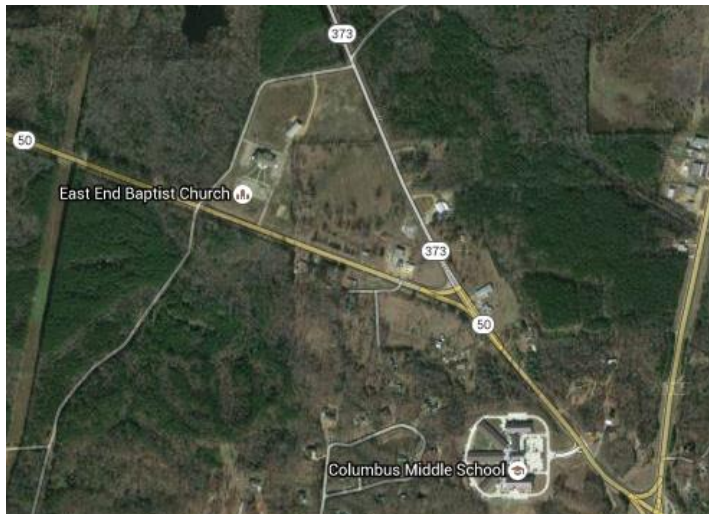




Southern Landmark



Cultivate Airmen, Create Pilots, Connect



East End Baptist Church between Hwy 373 and Hwy 50

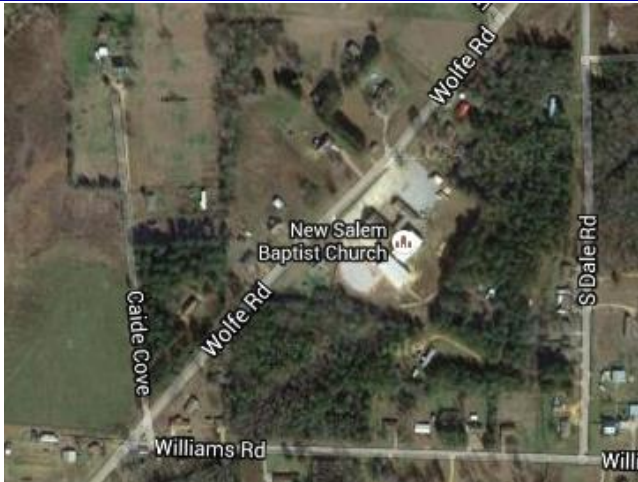
~5.0 mi south of AFB





Eastern Landmark

Cultivate Airmen, Create Pilots, Connect



New Salem Baptist Church off Wolfe Rd

~5.6 miles east of AFB





Western Landmark

Cultivate Airmen, Create Pilots, Connect



Town Creek Missionary
Baptist Church
~5.5 mi west of AFB



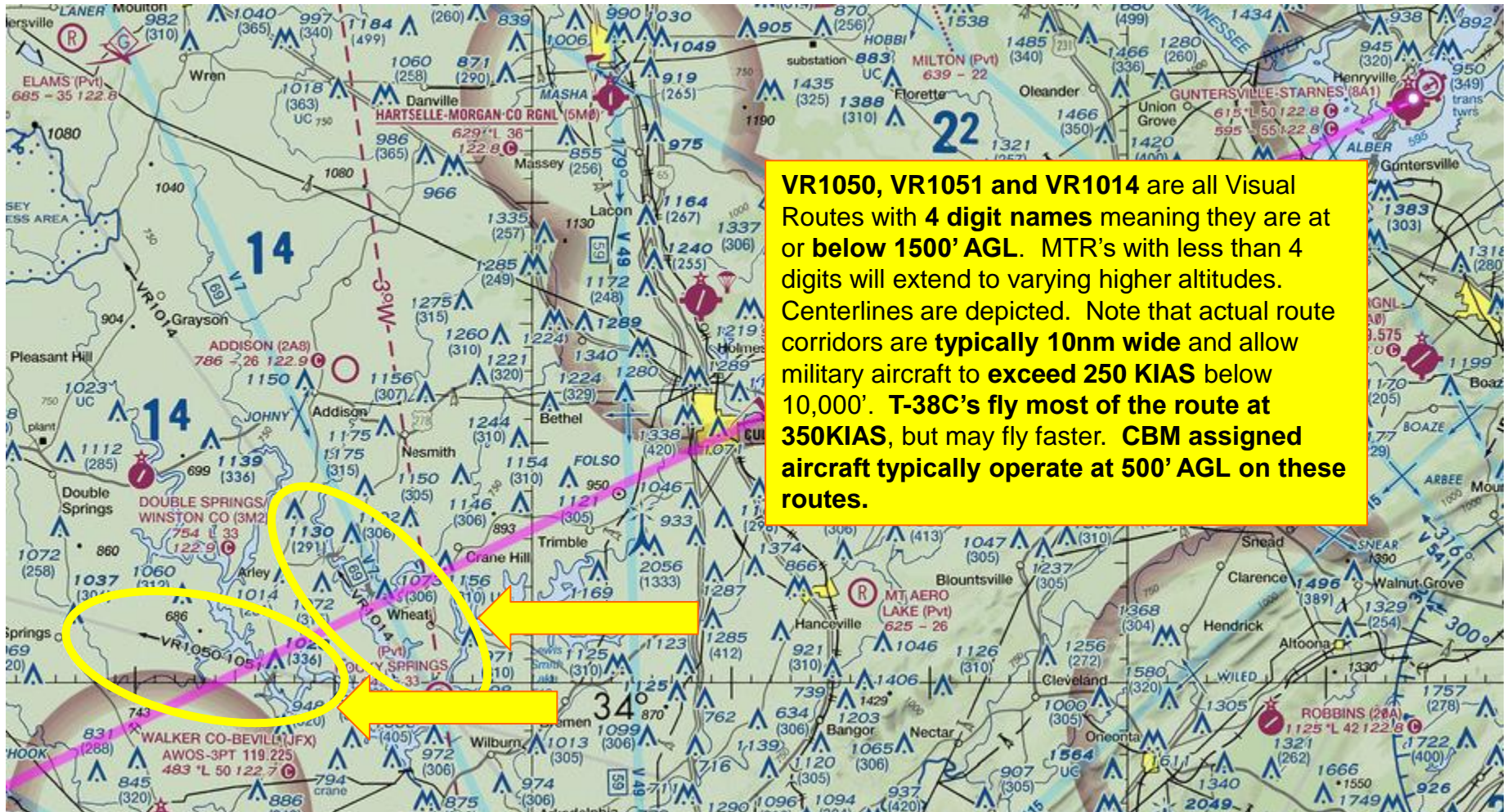


Sectional Depiction of LL

(Skyvector.com)



Cultivate Airmen, Create Pilots, Connect



BLAZE



2019 Incidents



Cultivate Airmen, Create Pilots, Connect

- **Drone near T-6 straight in, Columbus AFB, Spring 2019**
 - In controlled airspace without permission
- **Drone at 14,000' MSL in T-6 MOA, Columbus AFB, Spring 2019**
 - Well above 400 AGL
- **Fortunately there have not been any collisions.**



How you can help



Cultivate Airmen, Create Pilots, Connect

- **Abide by FAA guidelines Educate your friends**
- **Report them if you see them**
- **Low Levels (MTRs)**
 - Sectionals (skyvector.com is free)
 - Call (662) 434-2522



Questions?



Cultivate Airmen, Create Pilots, Connect



Columbus AFB Flight Safety

(662) 434-2526/2525/2842

BLAZE