Midair Collision Avoidance (MACA)

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- MACA Mission
- 366th Fighter Wing
- What We Fly
- Where We Fly
- MACA Practices
- Lights-Out Operations







• Prevent Midair Collisions & Near Misses.

• Educate general aviation on who we are, where we train, and how we train.





366th FW (a.k.a. Gunfighters)

- Operational Combat Wing
 - 3 Combat Fighter Squadrons (389 FS, 391 FS, 428 FS)
 - 726 Air Control Squadron "Hardrock"
 - 266 Range Squadron "Cowboy"



F-15E Strike Eagle 391 FS "Bold Tigers"

P-MR LHI

MO

6671





F-15E 389 FS Thunderbolts

F-15SG 428 FS Buccaneers

.



How We Train

- We need to train like we fight
 - Defend Against Threats
 - Air-to-Air (BFM, ACM, DCA)...Dog Fighting
 - Surface-to-Air (MANPADS, AAA, Surface-to-Air Missiles)
 - Attack Targets
 - From Medium and Low Altitudes
 - Work w/ Friendlies on Ground (JTACS)
 - Combine our skills with other players (Large Force Ex)
 - Night and IMC training
- Mountain Home has the best training area in the country to do this!





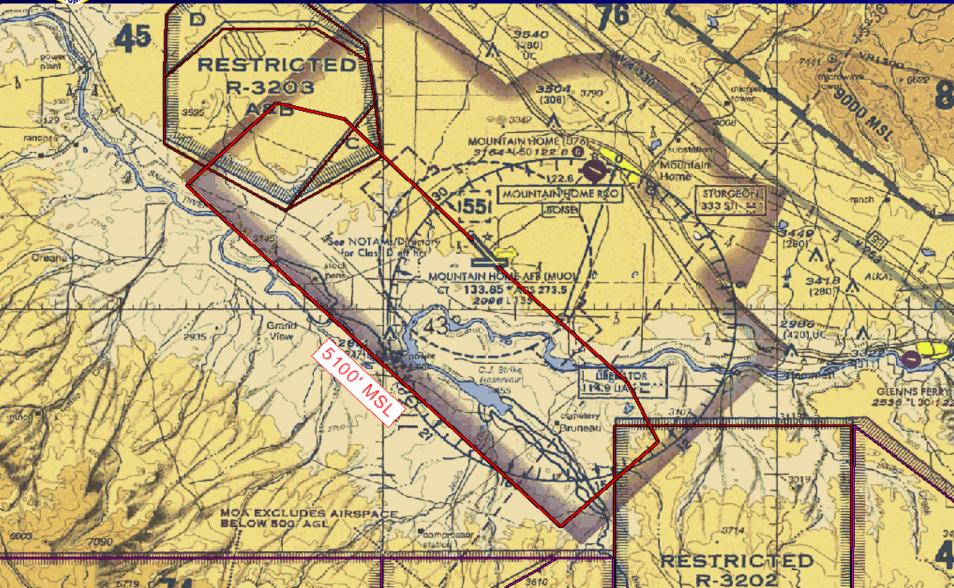
MHAFB Airspace

- Local IFR & VFR Patterns
- Military Operating Areas (MOA)
- Restricted Areas (R)
- Military Training Routes (MTR)
 - Instrument Routes (IR)
 - Visual Routes (VR)



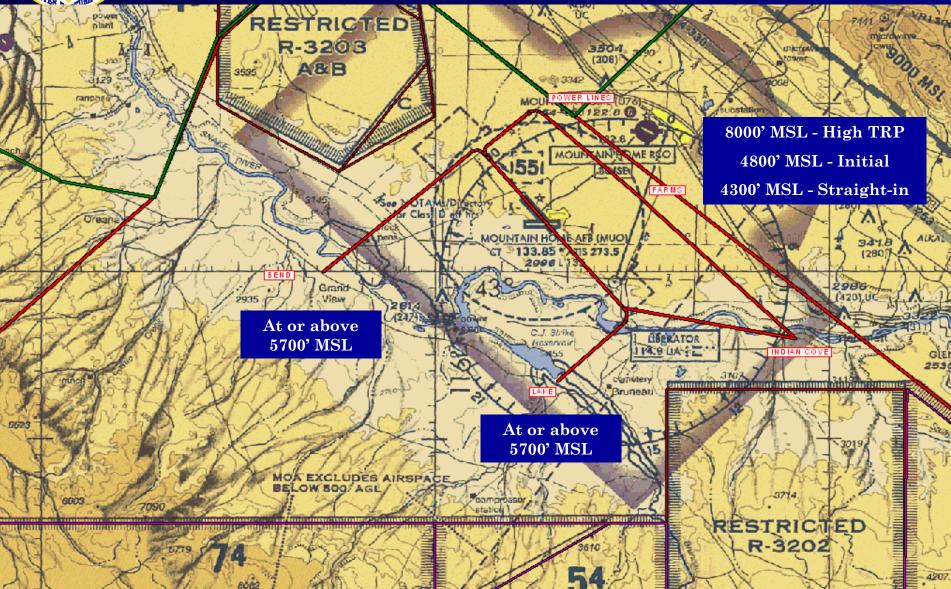


IFR Pattern



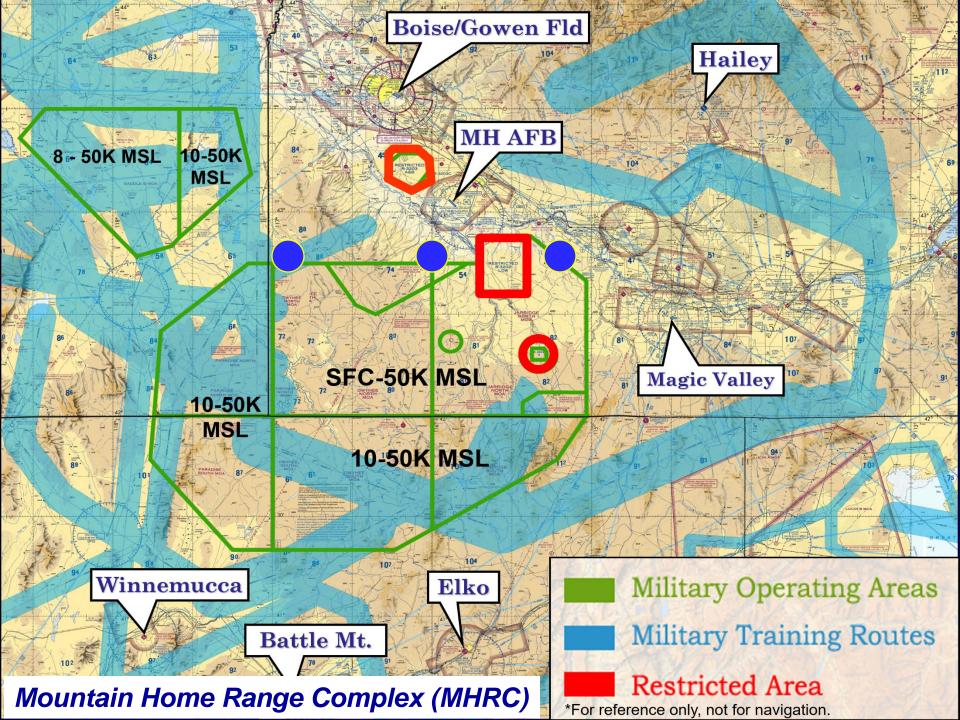


VFR Pattern





Frequently Used Airspace





Military Operating Areas

MOA - Airspace designated for non-hazardous* military activity such as acrobatics, air combat tactics, and formation training. The designation informs and segregates nonparticipating IFR aircraft from the activity. Aircraft operating VFR are not restricted from operating in military operations areas.



Military Operating Areas

- Pilots operating under VFR should exercise extreme caution while flying within a MOA
- MOA status changes frequently
- Contact FSS to obtain accurate hours of operations
- Contact the controlling agency for traffic advisories (Cowboy Control: 134.1 for MHRC)
- Wing Airspace Scheduling 208-828-2172/4607



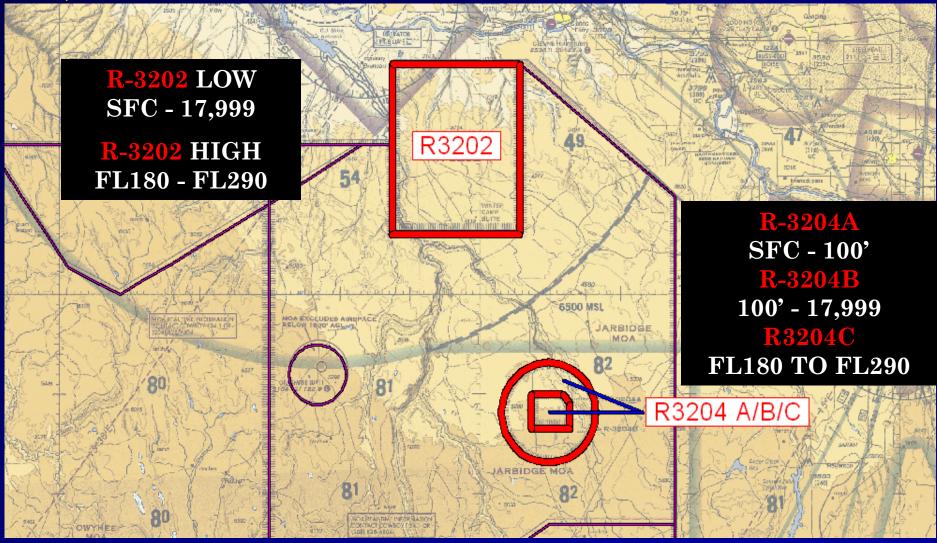
Restricted Areas

Restricted Areas - Airspace designated under FAR Part 73, within which the flight of aircraft, while not wholly prohibited, is subject to restrictions. Restricted Areas denote the existence of unusual, often invisible, hazards to aircraft such as the live firing of weapons. Restrictions are placed on all non-participating air traffic.





Mountain Home Restricted Areas

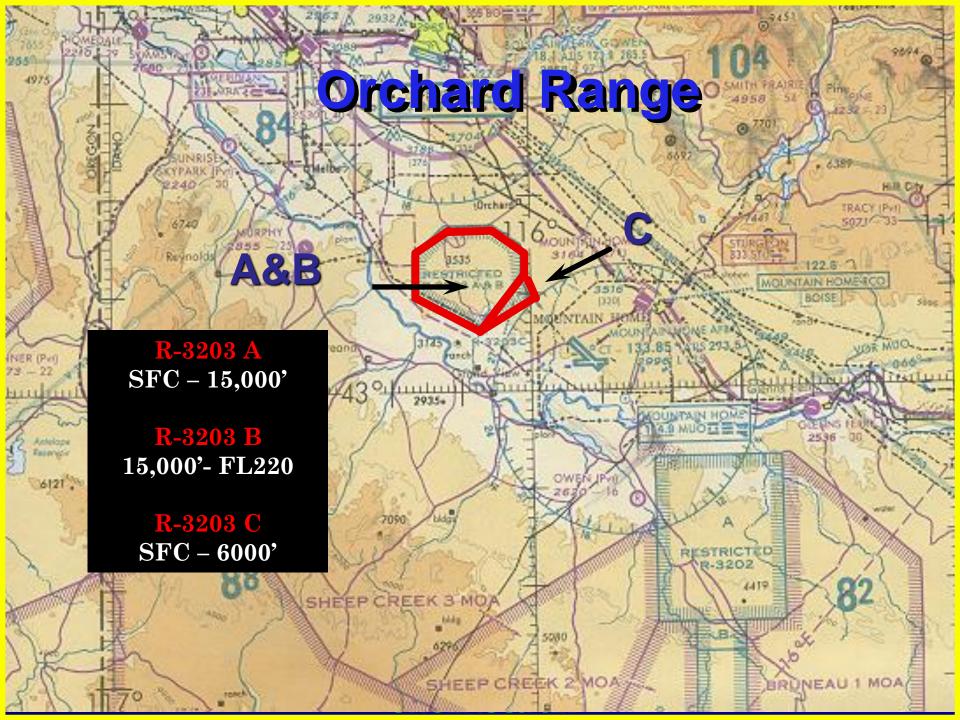




Things are not always as they appear...



Emergency airfield? UNCLASSIFIED

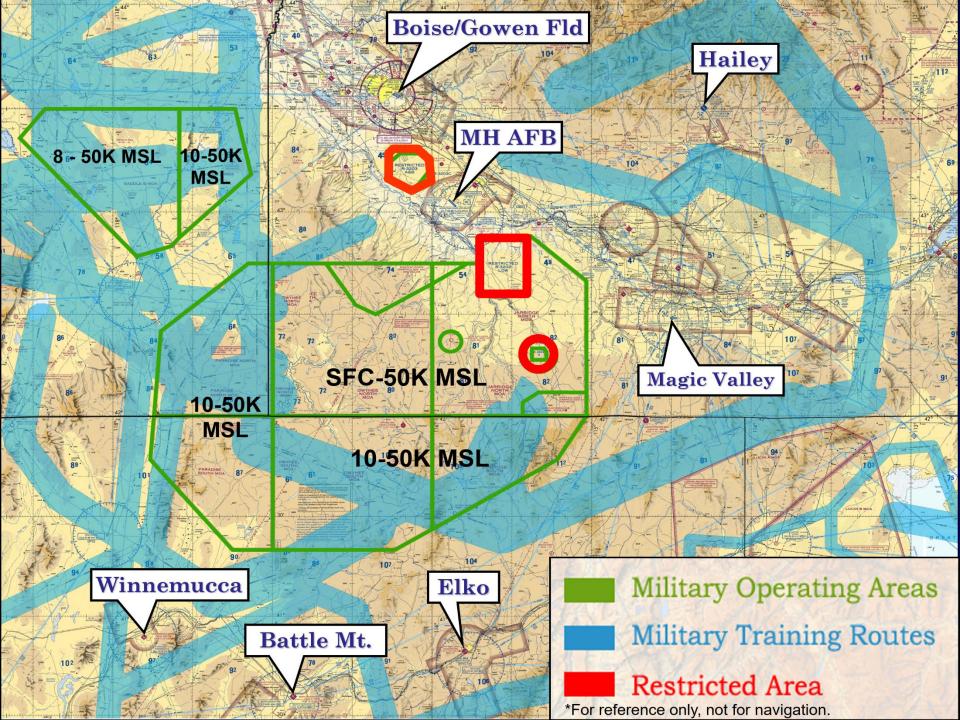




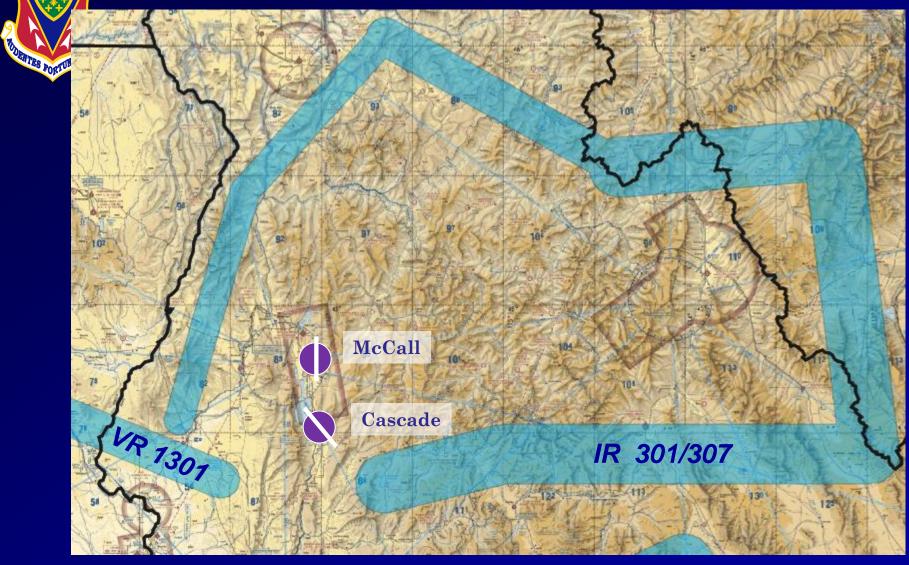
Military Training Routes

- VR & IR Routes
 - 100 AGL up to 10K MSL+
 - 4 16 NM wide
 - 250-540+ knots





Routinely used MTRS near McCall and Cascade





Operating in or around MTRs

- Altitudes range from 100' AGL to 10,000 MSL+
- Aircraft types can range from UH-60s to C17s
- Airspeeds range from 200 knots to 540 knots.
- Aircrews are not sightseeing...usually. They are focused on a mission set (tgt attacks, timing, threat avoidance)
- Fighters have RADAR but your aircraft may be in the clutter. Always squawk!



Operating in or around MTRs

- Assume MTRs are "HOT" or ask the FSS
- Don't expect aircraft to follow the centerline
- There may be two routes that coincide with each other and run opposite direction to each other
- If able, cross perpendicular to the route to minimize time in the route structure.

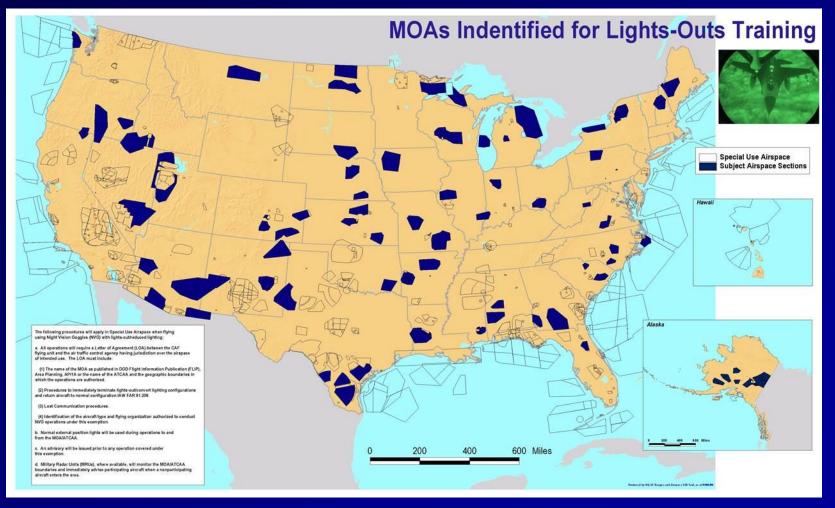




- A Avoid crowded airspace Announce Location and Intensions
- V Visually scan (Glint, Movement, Contrast)
- O Operate at VFR hemispheric altitudes
- I Identify w/ squawk
- D Don't assume we know you are there UNCLASSIFIED



Lights Out MOA Operations





Lights Out MOA Operations

- Local Ranges
 - Mountain Home Range Complex
 - Utah Test & Training Range
 - Nellis Test & Training Range
 - Juniper Hart (Oregon)





Lights Out MOA Operations

- Used to enhance NVG Training
- Reduced Lighting
 - Anti-collision and Strobe Lights off
 - Position lights minimum brightness
- Lights-Out
 - ALL exterior lights off



Lights Out MOA Operations USAF Requirements

- Intent is to increase civil users awareness of Lights-Out-operations and facilitate communications
- Provide advisories to transient operators of the MOA used for Lights-Out operations
- Letter of Agreement with the responsible FAA ATC Facility
- Class "D" NOTAM 48 hours prior



Lights Out MOA Operations USAF Requirements

•Provide informational briefings to local flying organizations, businesses, and other civil users within 100 nm of the MOA

Accomplish Annually

Must be approved by the appropriate FSDO



Lights Out MOA Operations Conditions and Limitations

- FAA Exemption(7960)- 24 Jan 2003
- Must be NOTAMED 48 Hours in advance
- Must be coordinated with appropriate FAA ATC facility
- Have the capability of being monitored for non-participating aircraft



•Operations must be continuously monitored by military personnel to detect all nonparticipating aircraft

•Must be accomplished by a radar capable of detecting nonparticipating aircraft. Including those without transponders and/or small radar cross-section





Lights Out MOA Operations Conditions and Limitations Con't

•Military personnel will immediately advise all participants when a non-participating aircraft enters the area

-Participants will maintain a continuous listening watch on a designated frequency.

-If a nonparticipating aircraft is determined to pose a conflict all participating aircraft will immediately restrict their operations, return to normal lighting, and alter course to ensure the safety of the nonparticipating aircraft.





Lights Out MOA Operations Conditions and Limitations Con't

•All participating pilots must be thoroughly familiar with provisions of the Exemption

FALURE TO COMPLY WITH THE PROVISIONS OF THE EXEMPTION CAN RESULT IN ITS CANCELLATION



Additional Information

MUO Tower 133.85 MUO Approach 124.8 Cowboy Control 134.1

MH AFB Flight Safety 208-828-1573 Gowen Field AF Flight Safety 208-422-5600 Gowen Field Army Flight Safety 208-422-3970



QUESTIONS ?



...ride hard, shoot straight, and always speak the truth.