

Holloman Air Force Base Mission and Flying Operations

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Col. Andrew Croft, 49th Wing Commander, will discuss Holloman Air Force Base's mission and aircraft, the base's economic impact on the region and the airspace resources available to all military services here in southern New Mexico. He will also address sources of noise near Holloman and White Sands Missile Range, sonic booms in the Las Cruces area, and the Air Force's responsibilities to Las Cruces residents when it comes to noise and flyovers.



HOLLOMAN AIR FORCE BASE



ONE TEAM . . . COMBAT READY





Las Cruces City Council Holloman AFB Update

***Colonel Andrew Croft
Commander, 49th Wing
December 10, 2012***



Overview



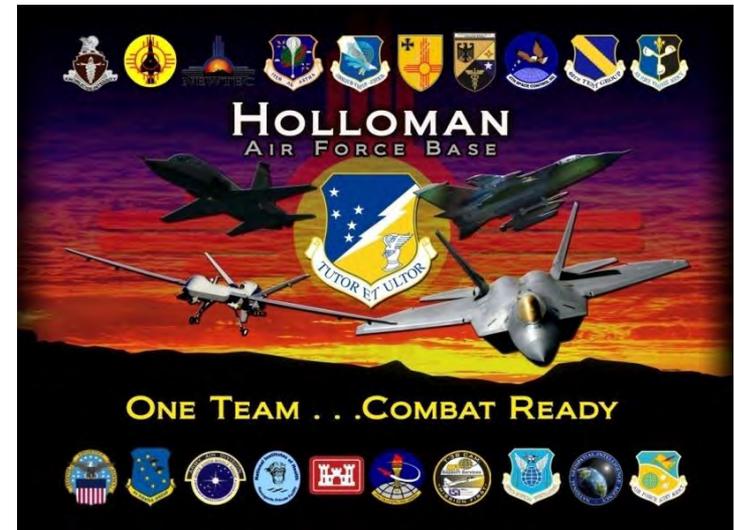
- **Economic Impact**
- **What makes Holloman AFB special (it's the airspace)**
- **49th Wing Mission, Capabilities and Aircraft**
- **Sources of noise for the Las Cruces area**
- **Sonic booms**
- **What we are doing every day to mitigate the impact**
- **Our responsibilities to your community**
- **Final thoughts**



Team Holloman



- ***49th Wing***
- ***44th Fighter Group***
- ***96th Test Group***
- ***German Air Force (GAF)***
- ***4th Space Control Squadron***
- ***14 other tenant units***





Annual Economic Impact



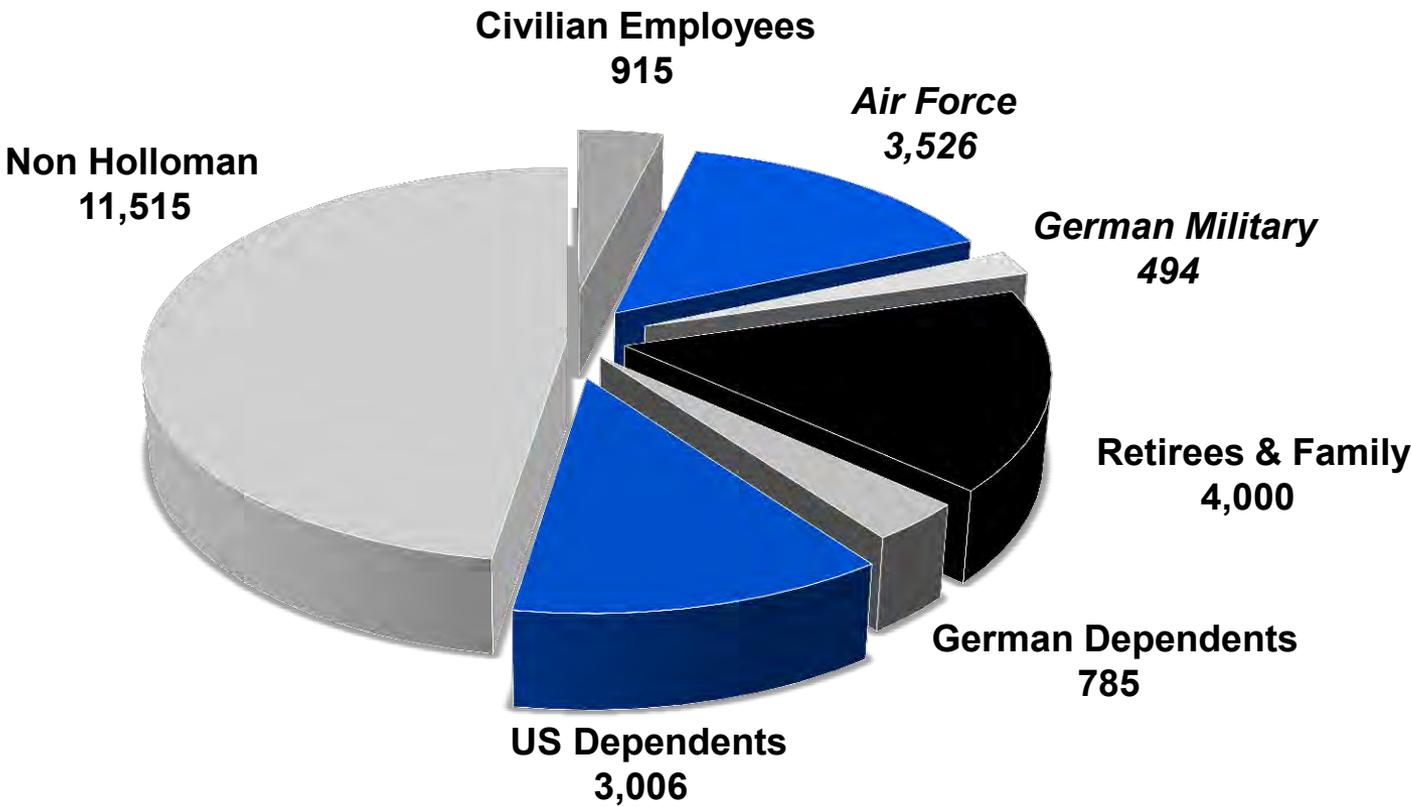
- **Operations - \$94.3 million**
- **U.S. Payroll - \$199.5 million**
- **Contracts/GPC - \$65.5 million**
- **German Payroll - \$38.2 million**
- **Construction**
 - **U.S. Government: \$25.3 million**
- **Total Economic Impact - \$422.8 million**

About \$1.1 million per day



Alamogordo Demographics

>50% Military-Related as of FY12



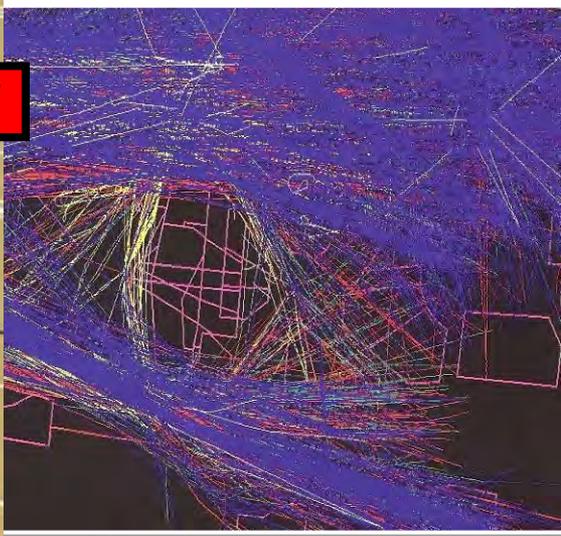
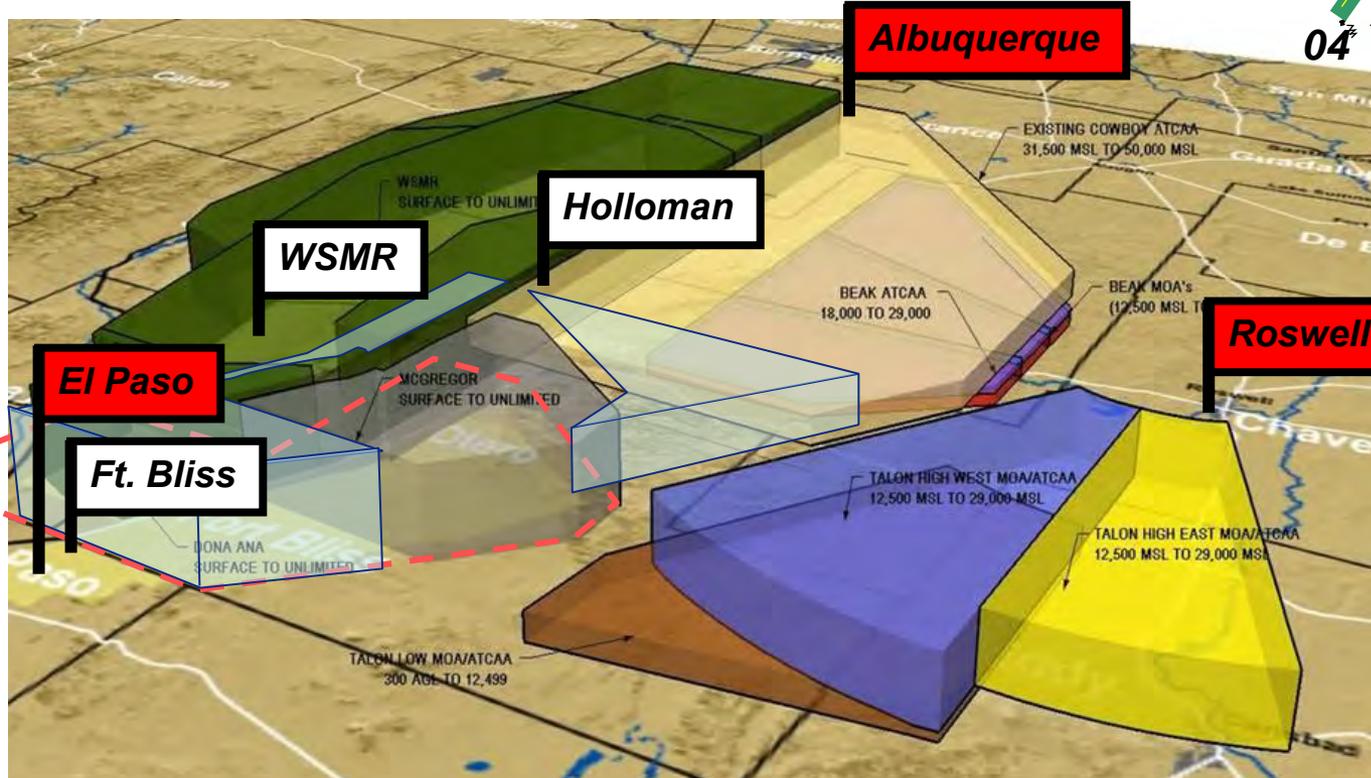
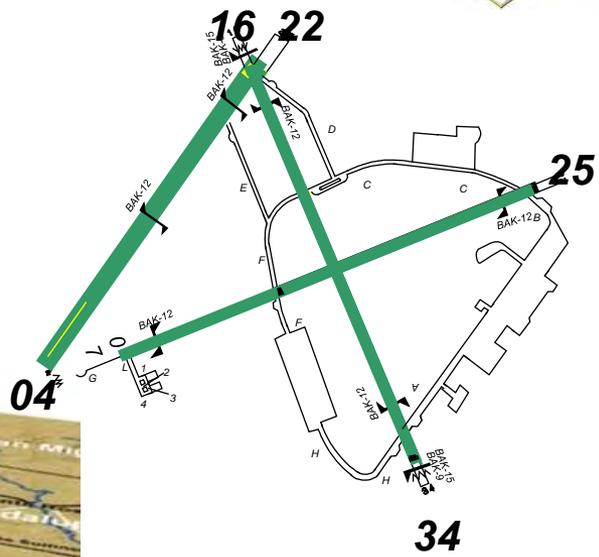
Total: 24,241



Holloman Location



- Geography and Topography
- Weather



49th Wing Mission

Fly, Fight, and Win by...

- Deploying forward and supporting ongoing combat operations with combat ready Airmen***
- Training MQ-1 and MQ-9 aircrews to be mission-ready for immediate combat action***
- Training, equipping, and certifying F-22 forces to conduct combat operations***

“Anywhere, Anytime, for any Combatant Commander...”



49th Wing Capabilities



- **Global power projection via Expeditionary Combat Skills**
 - 21 x F-22s, 10 x MQ-1, 11 x MQ-9, 7 x T-38
 - 11,000 tons of worldwide-deployable BEAR Base assets
 - 2 air-transportable clinics





MQ-1B Predator MQ-9 Reaper



***Remotely Piloted Aircraft
(UAS/RPV/RPA/UAV)***



Predator Primary Satellite Link (PPSL)



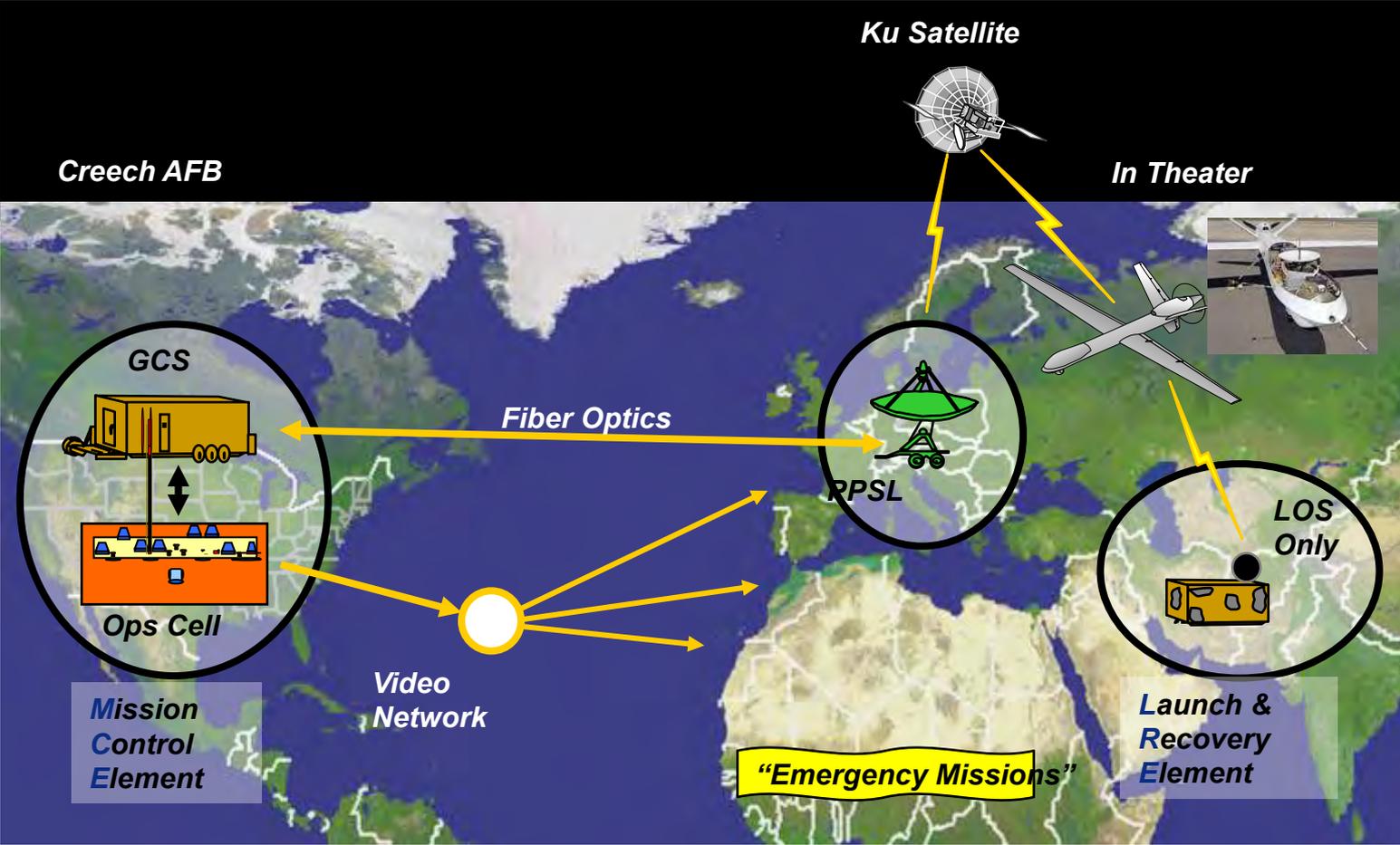
***Ground Control Stations (GCS)
(Interchangeable MQ-1/9)***



How does it work?



Remote Split Operations (RSO) = smallest footprint forward





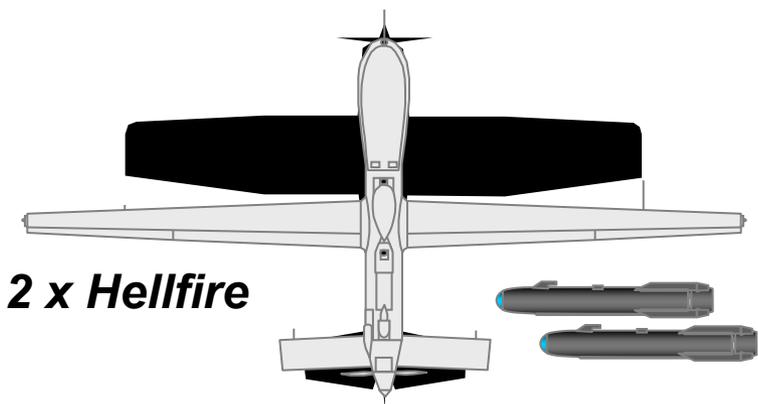
Comparison



MQ-1

MQ-9

C-172 Size



2 x Hellfire

Wingspan: 49 feet Length: 26 feet

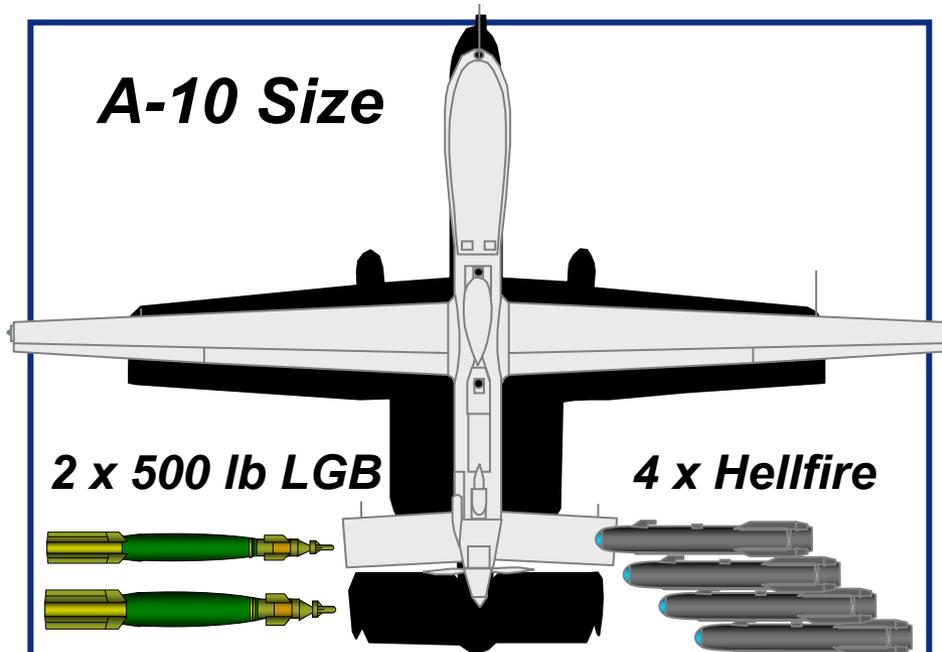
Max Speed: 120 KT

Endurance: 24 hours

Max Altitude: 25,000 feet MSL

Payload: 300 lbs (2 hard points)

A-10 Size



2 x 500 lb LGB

4 x Hellfire

Wingspan: 64 feet Length: 36 feet

Max Speed: 240 KT

Endurance: 24 hrs

Max Altitude: 50,000 feet MSL

Payload: 3000 lbs (6 hard points)



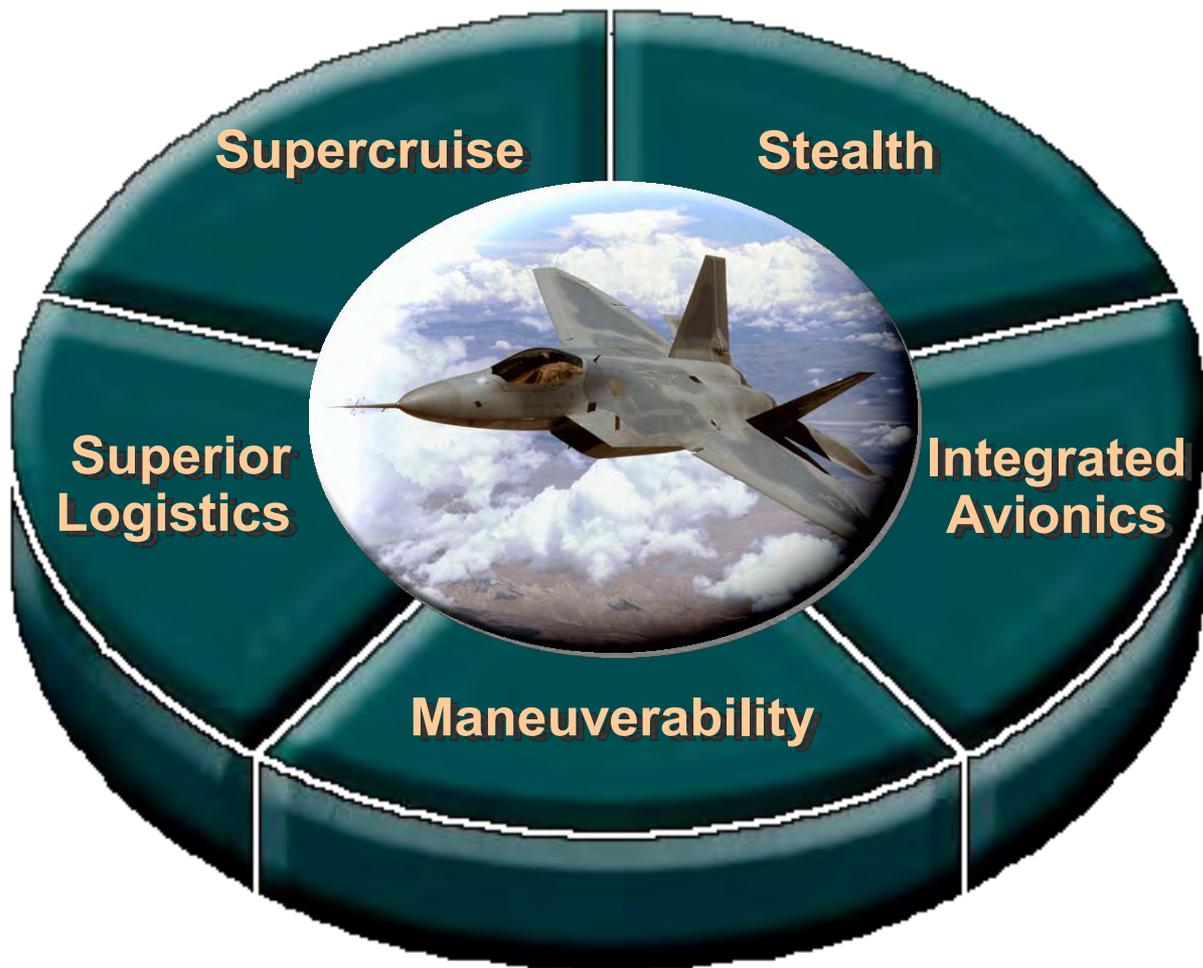
F-22 Raptor



- **5th Generation fighter capable of getting us into places previous fighters couldn't**
 - **Surface-to-Air missile employment zones**
 - **Remain undetected by air threats**
- **Much of this capability is due to the speeds at which we employ, and the ability to “supercruise”**
 - **Ability to quickly “sprint” from 0.9M to 1.2-1.3M**
 - **Spend the least amount of time in harm’s way**
 - **Weapons employment considerations**
- **Sonic booms occur when going faster than the speed of sound (1.0M)**
 - **Achieved every “missionized” sortie we fly**



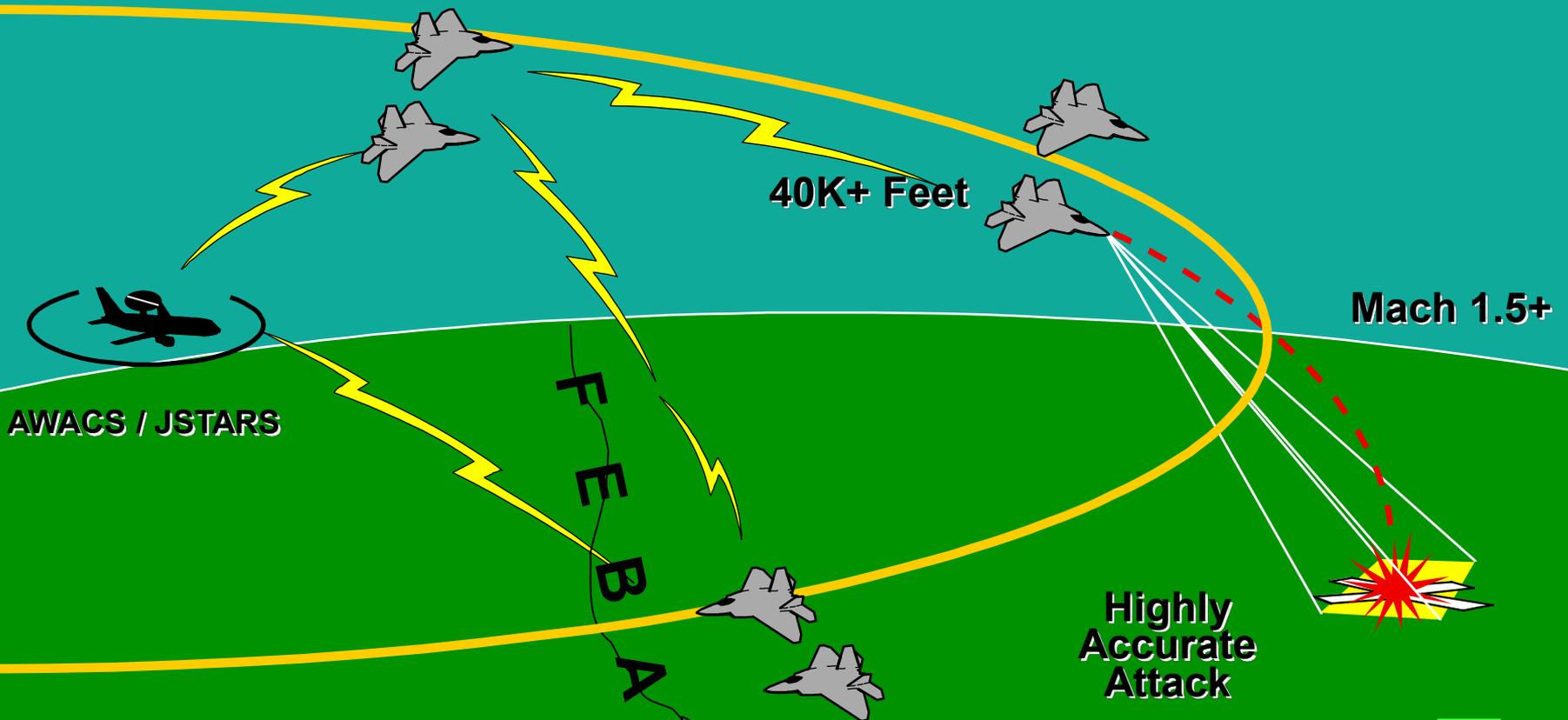
F-22 Key Capabilities



High and Fast

Counter-air Ground Targets

- SAMs
- Airfields / aircraft
- C⁴ISR
- Theater Missiles





Why It's Important



- **Global Response**
 - Preparation to be America's "ready" squadron
 - 5 available F-22 squadrons
 - Current lay-down: Holloman, Elmendorf, Langley
- **Deployments**
 - We always have to be ready
- **Operation NOBLE EAGLE**
- **Real-world impact: *We have a lot to prepare for, given the global environment***



Sonic Booms



- **Generation**
 - Aircraft moving faster than the speed of sound
 - Impacts ground if ground speed is $>1M_{\text{ground}}$
- **Signature**
 - **Carpet Boom:** produced by steady-state flight
 - This simply happens as a result of us flying
 - Radiates far away, depending on altitude
 - **High-Intensity Boom:** produced by maneuvers
 - This is what we're focused on mitigating

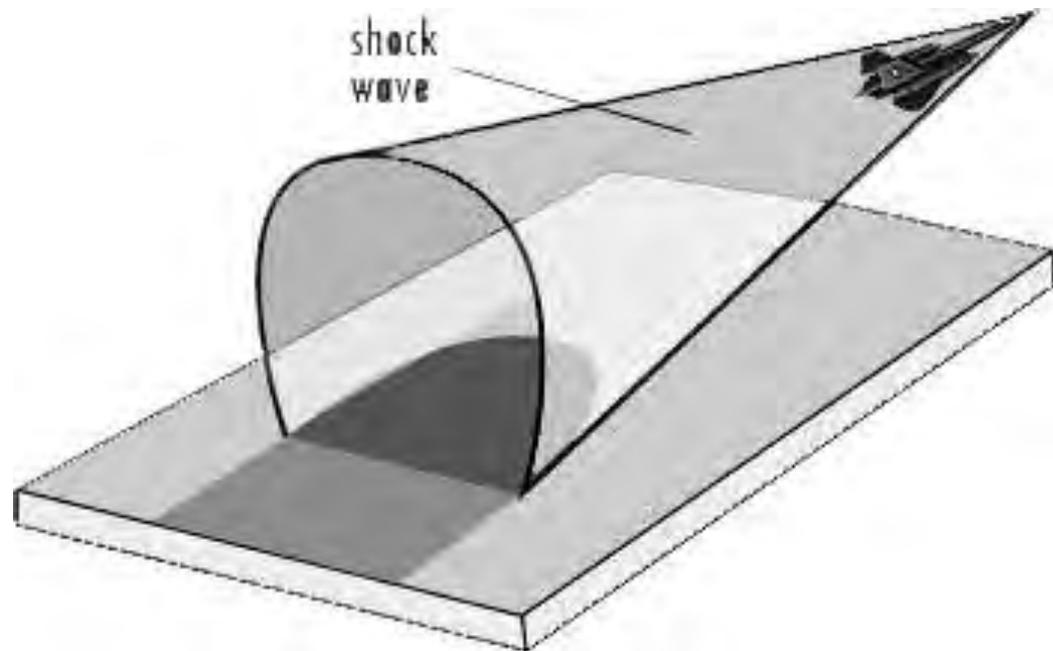


Sonic Booms

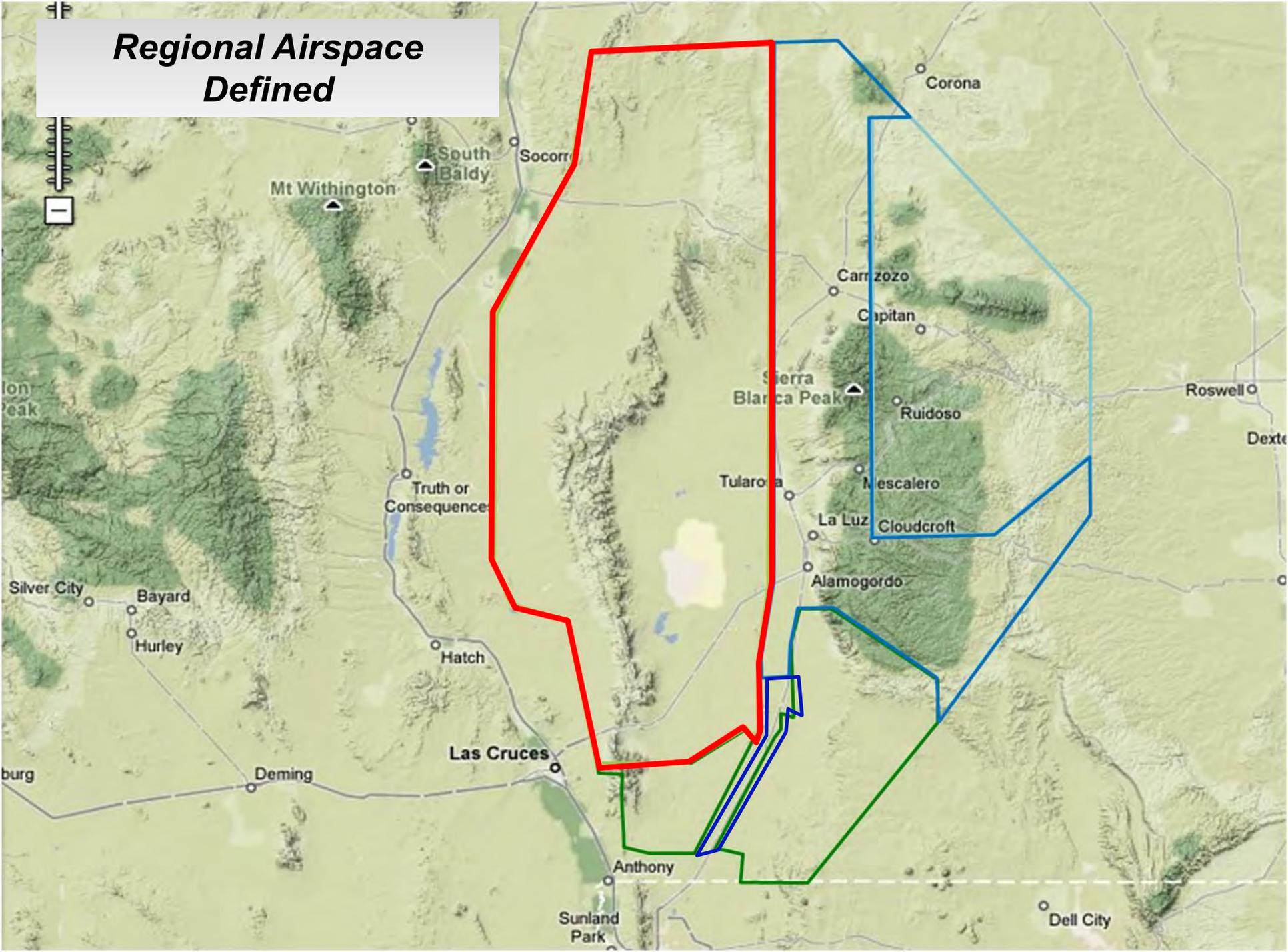


- **Environmental Considerations**

- **Affected by aircraft weight, size, shape, altitude, attitude, flight path**
- **Also affected by weather, temperature, cloud coverage and other atmospheric conditions**



Regional Airspace Defined





Reducing the Impact



- **Keep our operations from affecting the local population to maximum extent possible**
 - **Mission orientation – efficient but purposeful use of airspace**
 - **Maximum use of WSMR airspace; avoidance areas**
 - **Noise abatement procedures**
 - **Re-orient the mission regularly**
 - **Minimum altitudes**
 - **Employment preferences**



Our Responsibility to You



- **Community Engagement**
 - **Legal Office, Public Affairs**
 - **Every sonic boom/noise complaint is briefed**
 - **Every claim is considered**
- ***Inform the local population via radio, newspaper, Facebook and our website***
 - **Sign up tonight to receive the weekly Sound of Freedom Report via email**



Final Thoughts



- **We understand the impact of our flying operations**
 - **We can't eliminate sonic booms, but we will do everything we can to mitigate their impact**
- **Thank you, Las Cruces, for your support – we couldn't do this without you!**
- **There is no area that supports a military base like southern New Mexico**

A photograph of a Japanese military band. The band members are wearing dark blue uniforms with white epaulettes and peaked caps. They are holding brass instruments, likely trumpets or trombones. The image is taken from a side profile, showing the band members in a line. The word "Questions?" is overlaid in the center in a large, bold, italicized black font. The background is slightly blurred, showing more of the band and some architectural elements.

Questions?