

Block 60 Operational and Test Areas

Operational and Test Areas: The states listed as Location 1, are areas where the aircraft is expected to operate while transiting to/from the designated test areas. The areas listed as Location 2 through Location 10, are the requested test areas. Authorization of the transponder in civilian mode is requested for all locations. Request for authorization to use the transponder and interrogator in military modes is limited to the specific areas defined in Locations 2 through 10.

The majority of testing will use only Modes 3/A and Mode C. Operation of the AIFF transponder in Modes 1 and 2 will be limited to the specified flight test areas. Interrogator use will be restricted to the flight test areas designated and defined in Locations 3 and 4. Only Mode 1, 2, 3/A, and C will be used. Modes 4, S, and 5 transmissions will be prohibited in all areas.

The majority of flights will be in the Fort Worth, TX area with most flight testing limited to the FAA approved areas defined as Lockheed North, Lockheed South, and VR118. Most flights will not require use of any transponder modes other than Modes 3/A and C for routine ATC purposes. Requirements for transponder Modes 1 and 2 may occasionally exist in the test areas. Interrogator use will be restricted to the areas specifically requested for that purpose. All operations will be per limitations imposed in the FAA coordination and the FCC authorization.

Location 1: Operational Area: States of CA, AZ, NV, NM, TX, OK, AR, LA, MS, AL, GA, FL

Transponder: The transponder will be limited to Mode 3/A and C responses to routine FAA air traffic control (ATC) interrogations. These states are the area the aircraft is expected to operate while transiting to or from Fort Worth, or one test area to another.

Interrogator: Interrogator use will be prohibited during transitions to and from test areas.

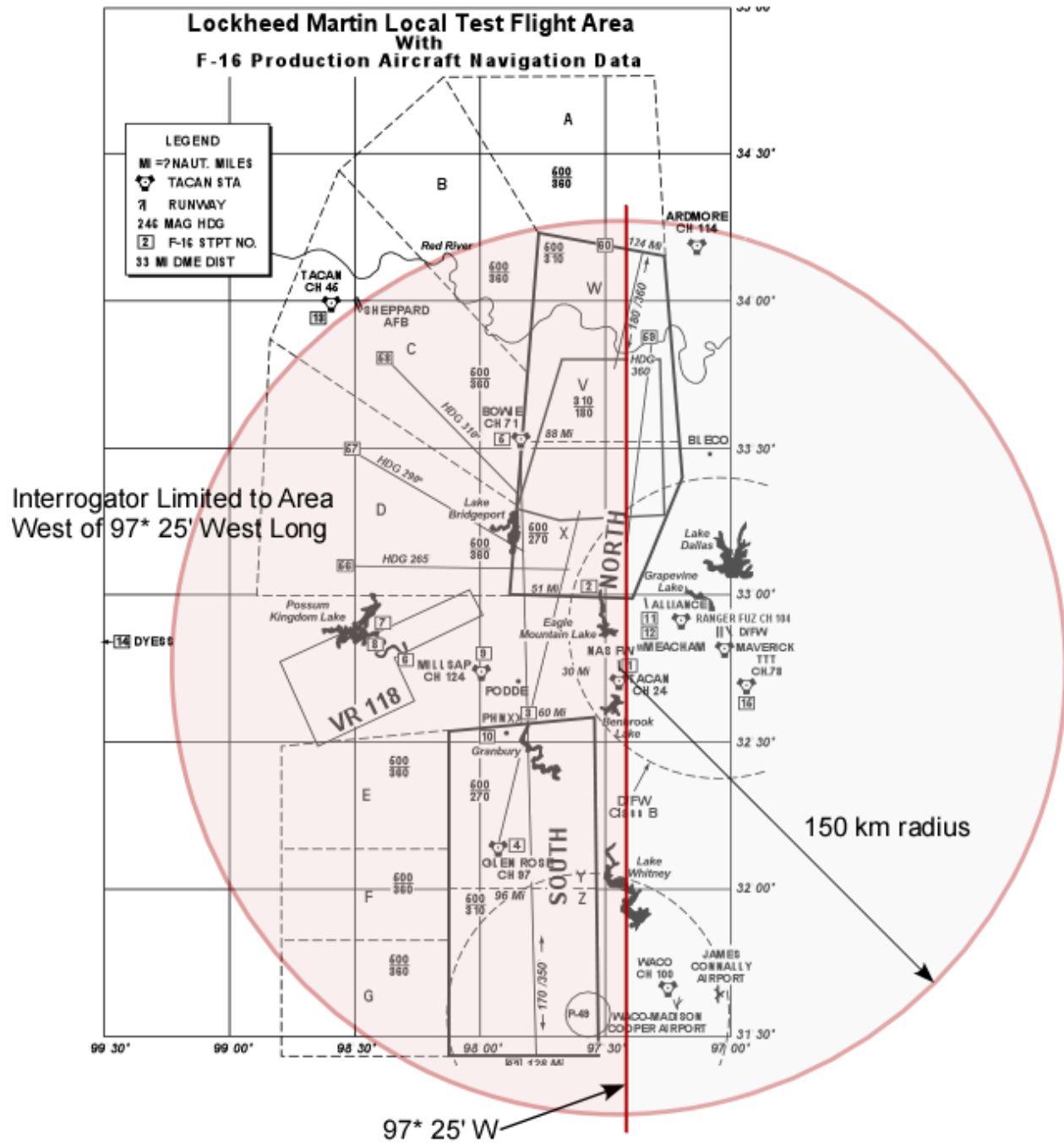
This authorization is requested to allow in flight operation of the AIFF with standard Mode 3/A and C responses to routine FAA air traffic control (ATC) interrogations. This authorization will allow the Block 60 aircraft to transit from Fort Worth to test areas or between test areas, as required, while providing routine responses to ATC interrogations without the need for an accompanying "authorized" chase aircraft.

Location 2: Fort Worth, TX - 150 km radius around 32° 46' 9"N, 097° 26' 30"W (NAS/JRB Fort Worth)

Transponder: The Fort Worth, Texas test area includes the FAA designated Lockheed North, Lockheed South, and VR118 ranges which will be the primary test areas. Transponder responses will be Mode 3/A and C to routine ATC interrogations and Modes 1, 2, 3A, and C to military interrogations as appropriate. Modes 4 and S will not be used. The equipment is incapable of Mode 5 operation.

Location 3: Fort Worth, TX – Semicircle of 150 km radius around 32° 46' 9"N, 097° 26' 30"W (NAS/JRB Fort Worth) and West of 097° 24' 0" West longitude.

Interrogator: Interrogator operation would be limited to the semi-circle of 150 km radius around 32° 46' 9"N, 097° 26' 30"W (NAS/JRB Fort Worth) but restricted to operations west of 097° 24' 0" West longitude. This area includes the FAA designated Lockheed North, Lockheed South, and VR118 ranges which will be the primary test areas. Interrogations would be limited to Modes 1, 2, 3A, and C with operational limitations as defined in the authorization. Modes 4 and S will not be used. The equipment is incapable of Mode 5 operation. Additional area restrictions may be coordinated with the FAA.



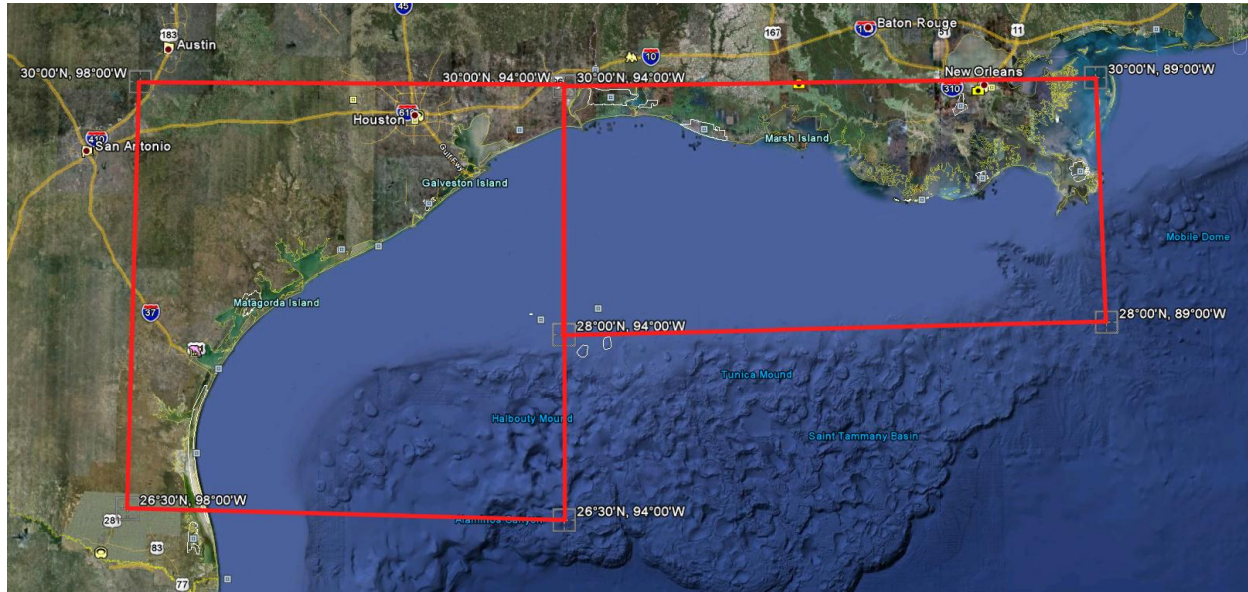
Location 2 and Location 3

Location 4: Test areas in the Gulf of Mexico and Texas

Gulf of Mexico Area consisting of two blocks defined as:

Block 1: $30^{\circ} \text{ N}, 98^{\circ} \text{ W}$; $30^{\circ} \text{ N}, 94^{\circ} \text{ W}$; $26^{\circ} 30' \text{ N}, 98^{\circ} \text{ W}$; $26^{\circ} 30' \text{ N}, 94^{\circ} \text{ W}$

Block 2: $30^{\circ} \text{ N}, 94^{\circ} \text{ W}$; $30^{\circ} \text{ N}, 89^{\circ} \text{ W}$; $28^{\circ} \text{ N}, 94^{\circ} \text{ W}$; $28^{\circ} \text{ N}, 89^{\circ} \text{ W}$



Block 1

Block 2

Transponder: Response modes would be 1, 2, 3A, and C in both blocks.

Interrogator: Interrogator use will be restricted to Block 1 of the Gulf of Mexico area defined above. Interrogator would be limited to Modes 1, 2, 3/A, and C with operational limits as defined within the authorization.

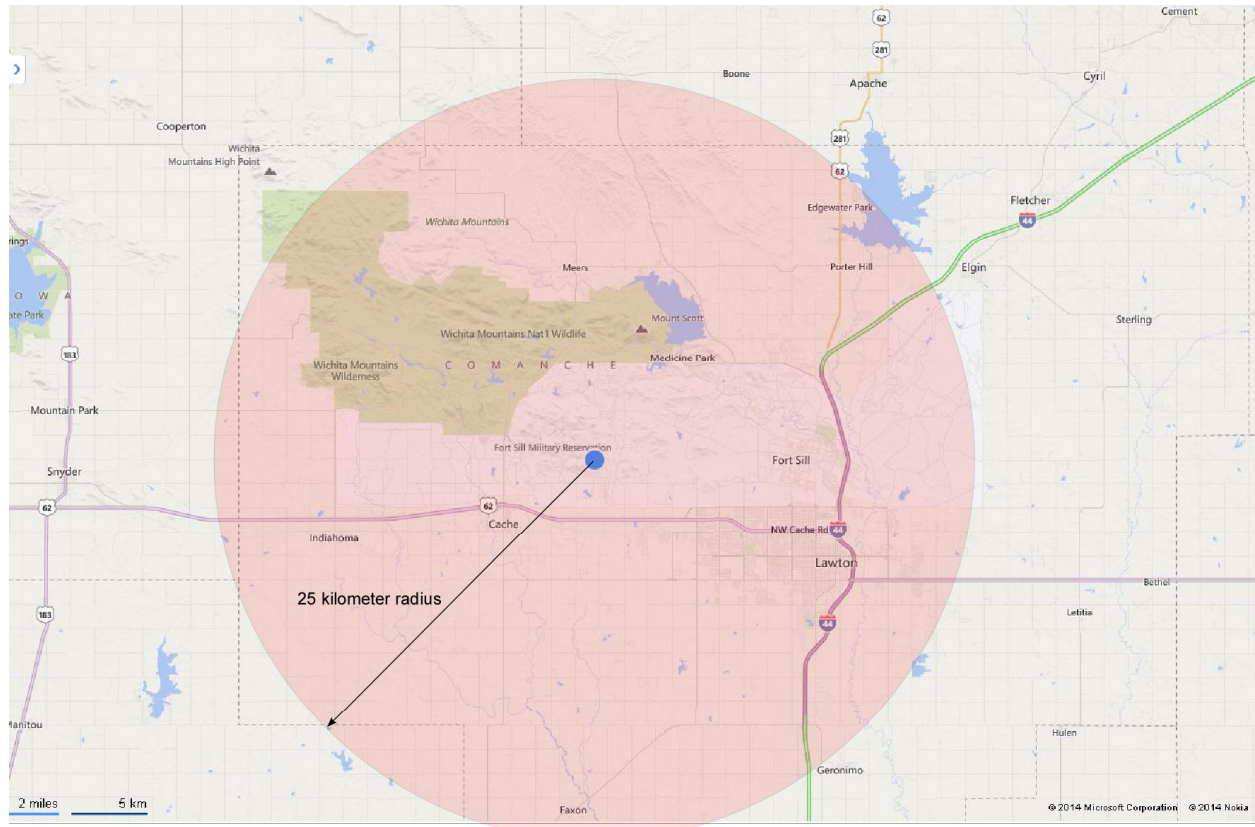
The map displays the Lancer MOA (Missile Operations Area) in southeastern Colorado. The MOA boundary is outlined in purple. Key locations within and around the MOA include:

- Lubbock:** A major city and military installation, marked with a red star.
- Snyder ESS:** A military installation, marked with a red star.
- Colorado City:** A city, marked with a red star.
- Big Spring:** A city, marked with a red star.
- Stanton:** A city, marked with a red star.
- Abilene:** A city, marked with a red star.
- Denver City:** A city, marked with a red star.
- Andrews:** A city, marked with a red star.
- Midland:** A city, marked with a red star.
- Edwards:** A city, marked with a red star.
- Lucian Wells:** A city, marked with a red star.
- Stonewall:** A city, marked with a red star.
- Spur:** A city, marked with a red star.
- Post-Garza:** A city, marked with a red star.
- Post-Beggs:** A city, marked with a red star.
- Post-Fluvanna:** A city, marked with a red star.
- Post-Union:** A city, marked with a red star.
- Post-Snyder:** A city, marked with a red star.
- Post-Winston:** A city, marked with a red star.
- Post-Hawthorne:** A city, marked with a red star.
- Post-Lake Thomas:** A city, marked with a red star.
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- Post-Lake Thomas:** A city, marked with a red star.

The map also shows major roads, rivers, and surrounding towns like Denver City and Abilene. The Lancer MOA is labeled in pink text with a pink arrow pointing to the boundary.

Interrogator: The interrogator will not be used in this area.

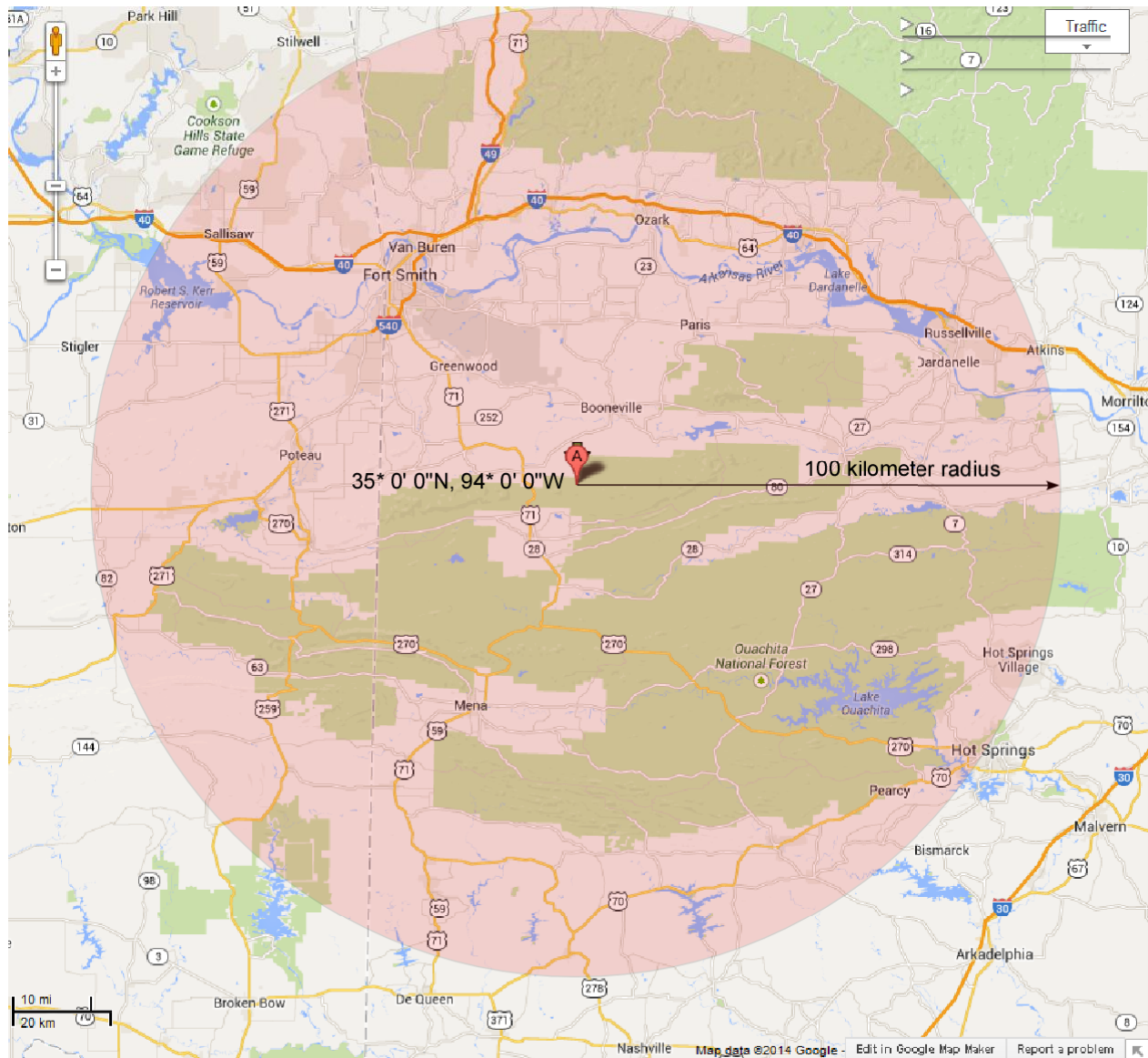
Location 6: Falcon Range, Ft Sill, OK: 25 km radius around 34°40'N, 98°34'W



Transponder: Operational test area is the Falcon Range, at Fort Sill in Oklahoma. Response modes would be 1, 2, 3A, and C.

Interrogator: The interrogator will not be used in this area.

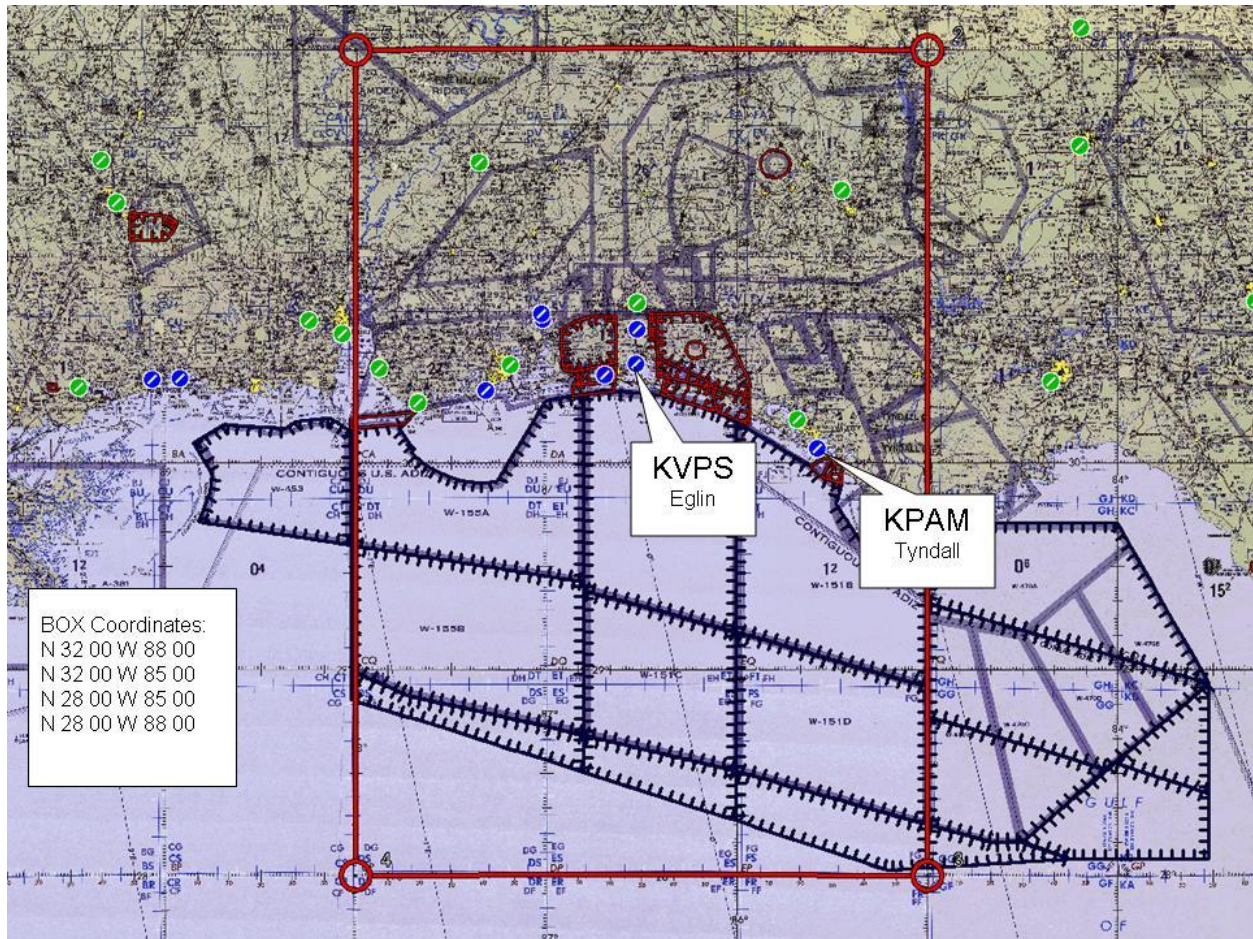
Location 7: Hog MOA in AR: 100 km radius of 35° 0' 0"N, 94° 0' 0"W



Transponder: Operational test area is the Hog MOA in Arkansas. Response modes would be 1, 2, 3A, and C.

Interrogator: The interrogator will not be used in this area.

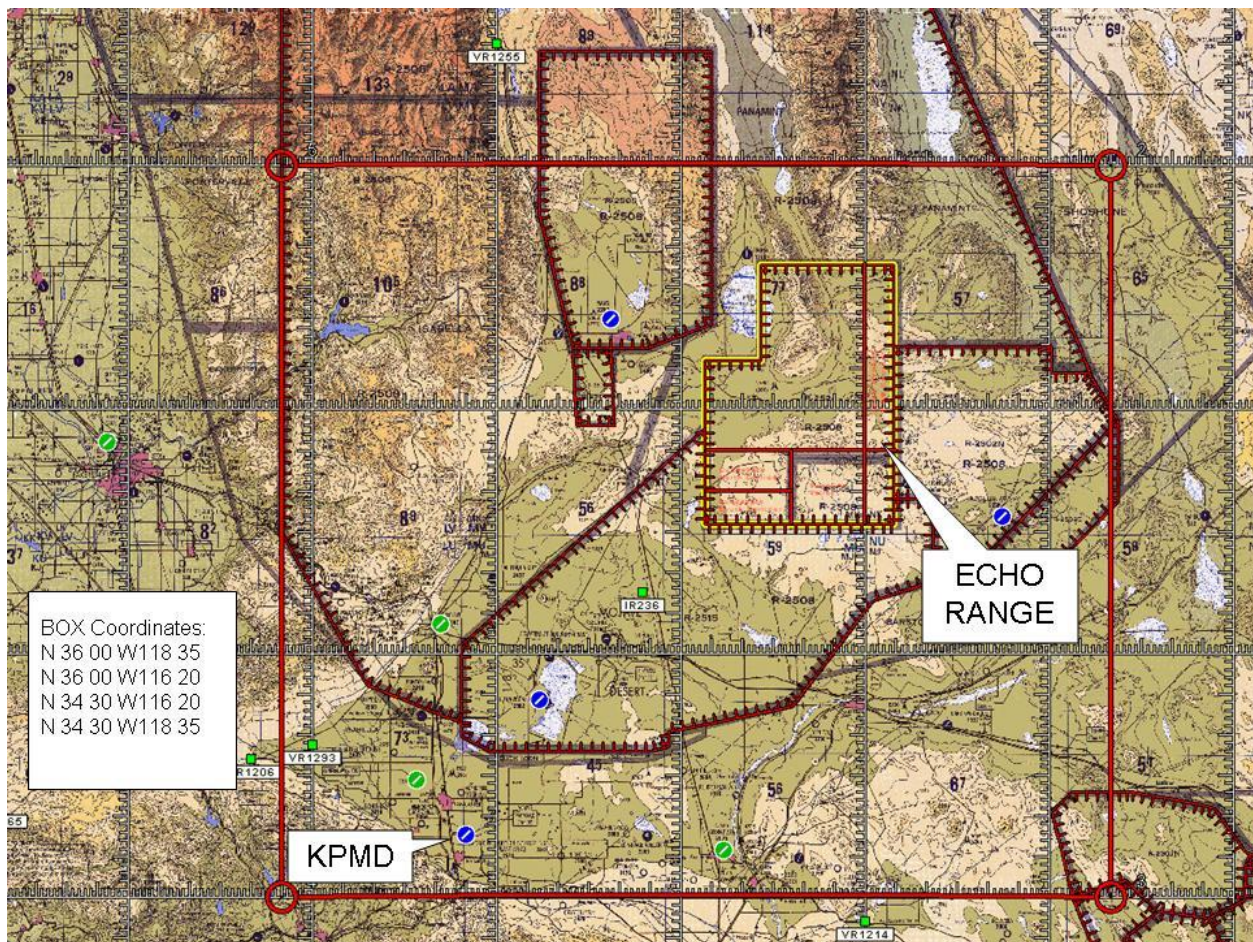
Location 8: Eglin AFB, FL defined by 32° 00' N, 88° 00' W; 32° 00' N, 85° 00' W; 28° 00' N, 85° 00' W; 28° 00' N; 88° 00' W



Transponder: Operational test area is Eglin AFB, Florida. Response modes would be 1, 2, 3A, and C.

Interrogator: The interrogator will not be used in this area.

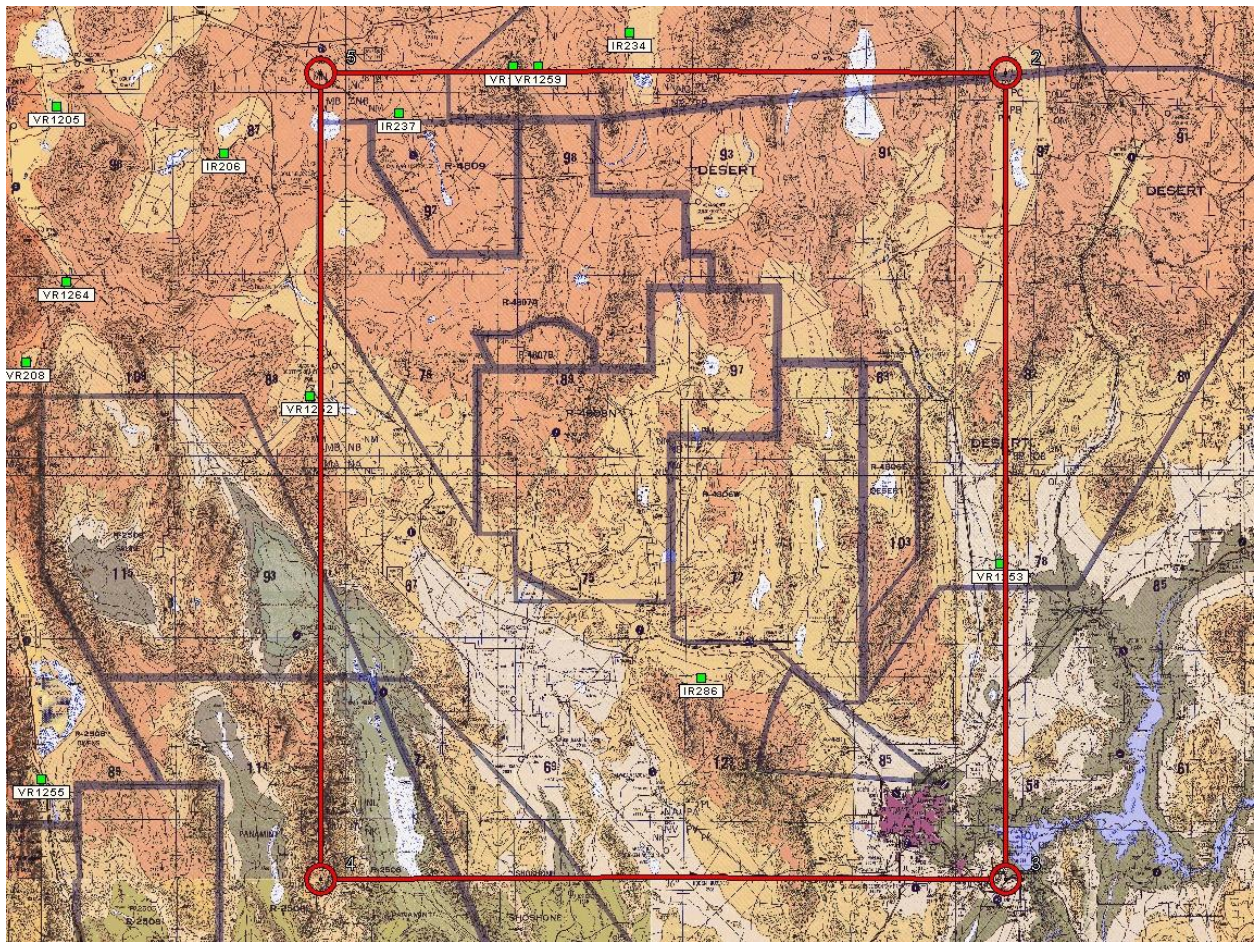
Location 9: China Lake, CA defined by 36° 00' N, 118° 35' W; 36° 00' N, 116° 20' W; 34° 30' N, 116° 20' W; and 34° 30' N, 118° 35' W



Transponder: Operational test area is China Lake, CA. Response modes would be 1, 2, 3A, and C.

Interrogator: The interrogator will not be used in this area.

Location 10: Tonopah, NV as defined by 38° 00' N, 117° 05' W; 38° 00' N, 114° 50' W; 36° 00' N, 114° 50' W; and 36° 00' N, 117° 05' W



Transponder: Operational test area is China Lake, CA. Response modes would be 1, 2, 3A, and C.

Interrogator: The interrogator will not be used in this area.