

YUMA RANGE DEPARTMENT AIRCREW RANGE SAFETY BRIEF



OVERVIEW

- Rotary-Winged Restricted Airspace Access
- Yuma Special Use Airspace
- R-2301W
- R-2301W UAS Airspace
- R-2507
- Naval Special Warfare Training
- El Centro Ranges
- Checkout Procedures

AIRCREW RANGE SAFETY BRIEF

All participants are required to read this brief.

- Brief is current as of 25 July 2016.
- Prior to take-off, check with range scheduling to ensure your ranges are approved / scheduled, and air delivered ordnance conforms with all range regulations.
- Pilots shall review the MCAS Yuma range notifications page <http://www.mcasyuma.marines.mil/Resources/RangeNotifications.aspx> and applicable NOTAMS (KNYL AND KNJK) prior to flight.
- Units have a 15-minute grace period to check into scheduled ranges before ranges are made available to other users. Units running late can coordinate with LEG IRON in order to preserve their scheduled ranges.

REQUIREMENT FOR FLIGHT WITHIN YTRC

- All "Participants" must REMAIN within APPROVED / SCHEDULED airspace.
- Installation Boundaries / Restricted Airspace Boundaries are not the same.
- Ordnance expenditures are only authorized within designated impact areas. There are no "targets of opportunity."
- Yuma ATC will actively pursue ANY spill-outs, including VFR.
- Pilots must be familiar with the MCAS Yuma StaO 3710.6J (USMC-accessible only CAC Card required). With particular focus on Chapter 4. The Range SOP can also be found in the RFMSS Library or sent by request from Range Scheduling (yuma.skeds@usmc.mil).
- Triple check for guided munitions ICW a FAC / JTAC per RTAM guidance.
- <https://www.mciwest.usmc.mil/inst/mcas/rng/roc/default.aspx>

ROTARY-WINGED RESTRICTED AIRSPACE ACCESS



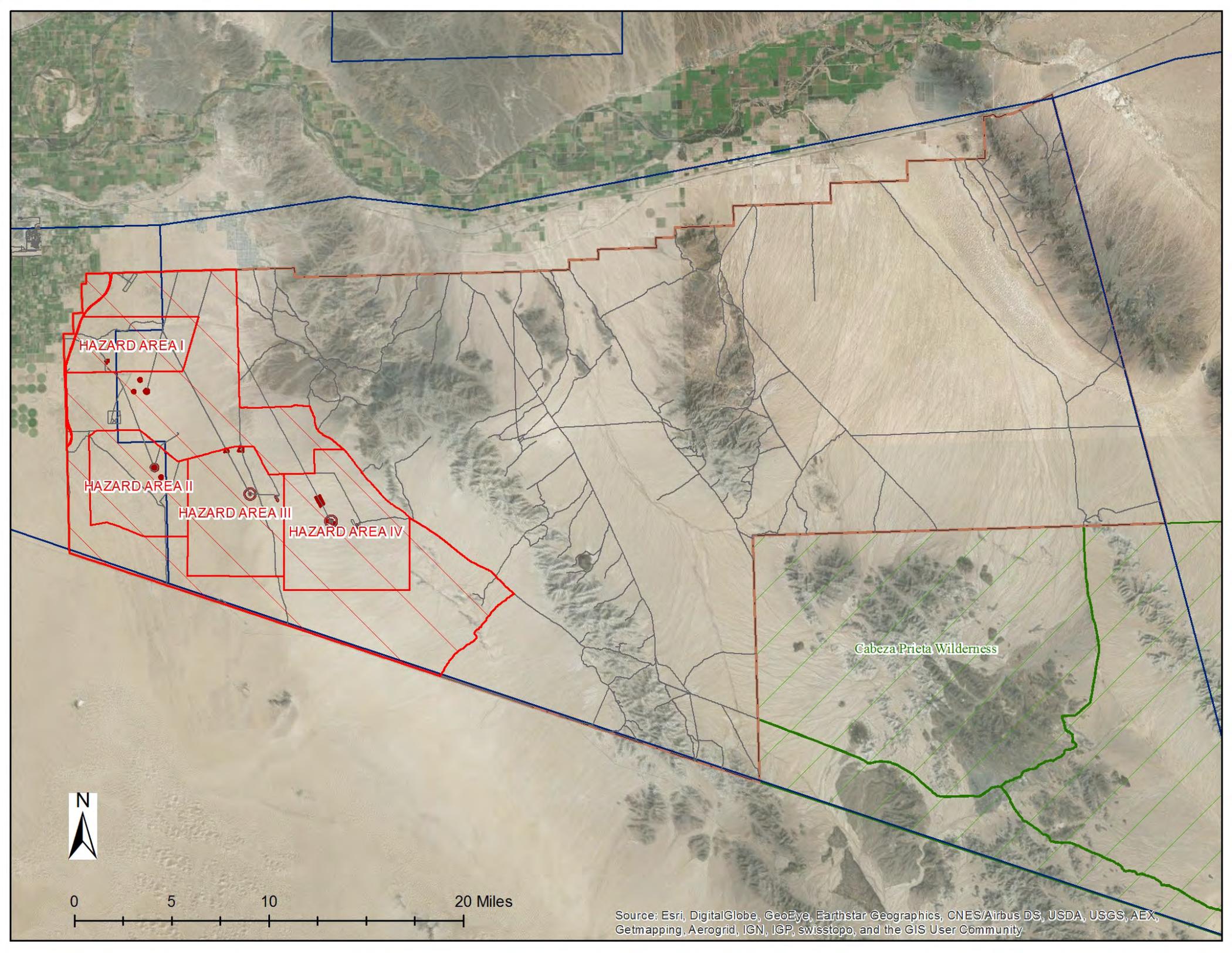
ROTARY WINGED ACCESS TO RESTRICTED AIRSPACE

- All Rotary Winged aircraft (Not Tilt-Rotor) seeking access to R-2301W, R-2507 and R-2512 will check in with "Leg Iron" on frequency 310.0.
- Leg Iron operates a Low Altitude Communications system designed to support and coordinate on behalf of low flying platforms.
- Leg Iron will coordinate clearance and assignment of Mode III to Rotary Winged platforms seeking access to restricted airspace.
- Rotary Winged aircraft checking in with Leg Iron on 310.0 may be directed to utilize MAWTS-1 published Control Points in order to remain clear of active small arms ranges within R-2507N.

R-2301 WEST

BARRY M. GOLDWATER WEST

- There is NO airspace authorized for training South of the International Border!
- You will be advised of incursions into Mexico one time prior to having range time revoked
- Northern Boundary of R-2301W parallels V 66/J 2
- If Cactus West (Targets) in use by another unit, remain above 15K MSL west of the Gila Mountains.



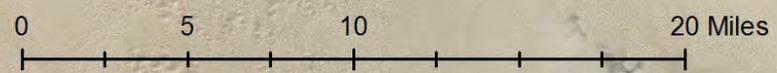
HAZARD AREA I

HAZARD AREA II

HAZARD AREA III

HAZARD AREA IV

Cabeza Prieta Wilderness



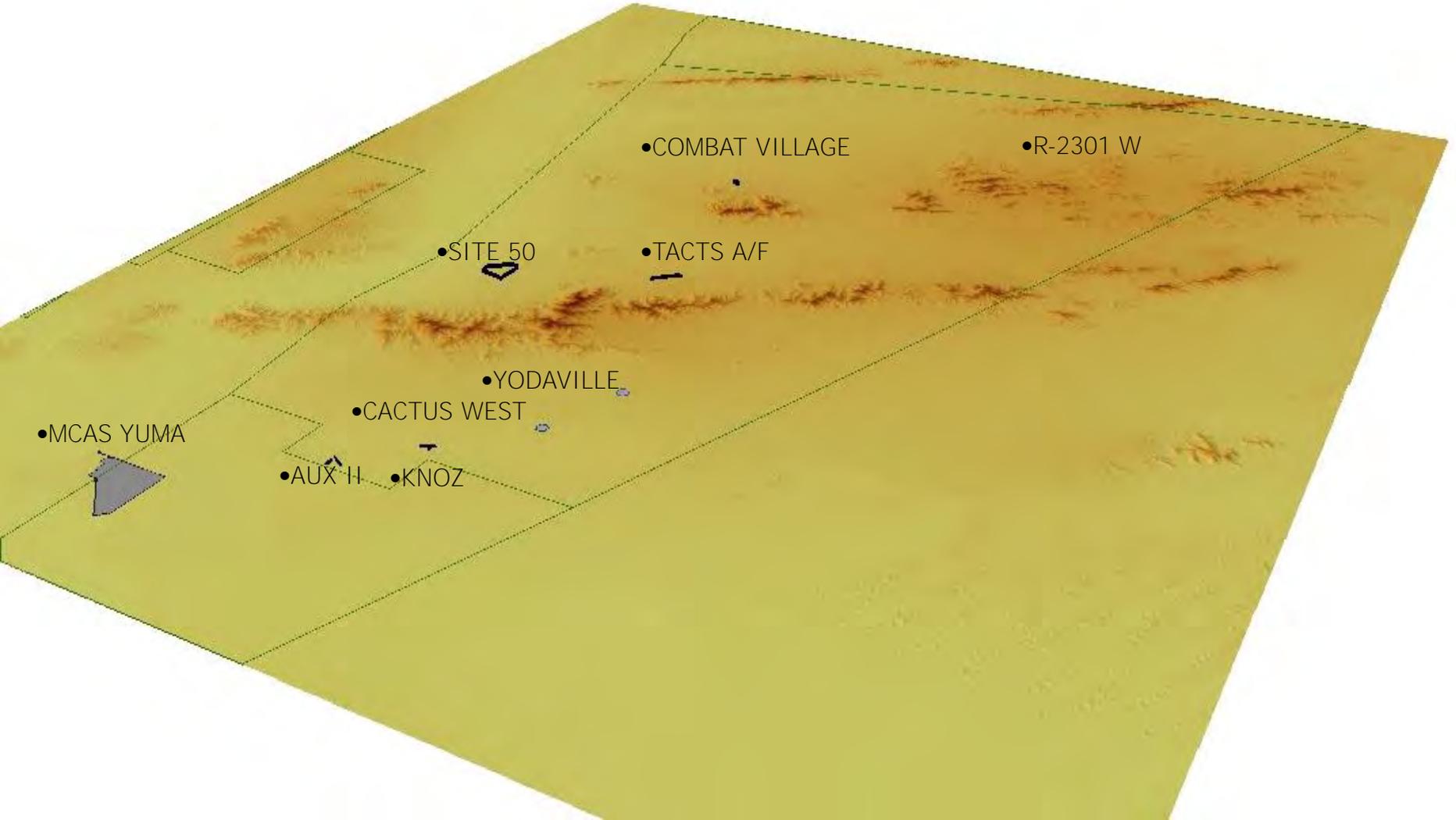
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

R-2301 WEST

- R-2301 West: Noise abatement in R-2301W SUA extends north to Interstate 8, from surface to FL800. The Foothills residential area south of I-8 lies beneath R-2301W.
- Operations in the R-2301W targets area (west of the Gila Mountains) presents the potential for low altitude over flight of this residential area. To minimize over flight at low altitude, fixed wing aircraft should, to the maximum extent practicable, avoid over flight of this residential area.



R 2301 W



•MCAS YUMA

•AUX II

•KNOZ

•CACTUS WEST

•YODAVILLE

•SITE 50

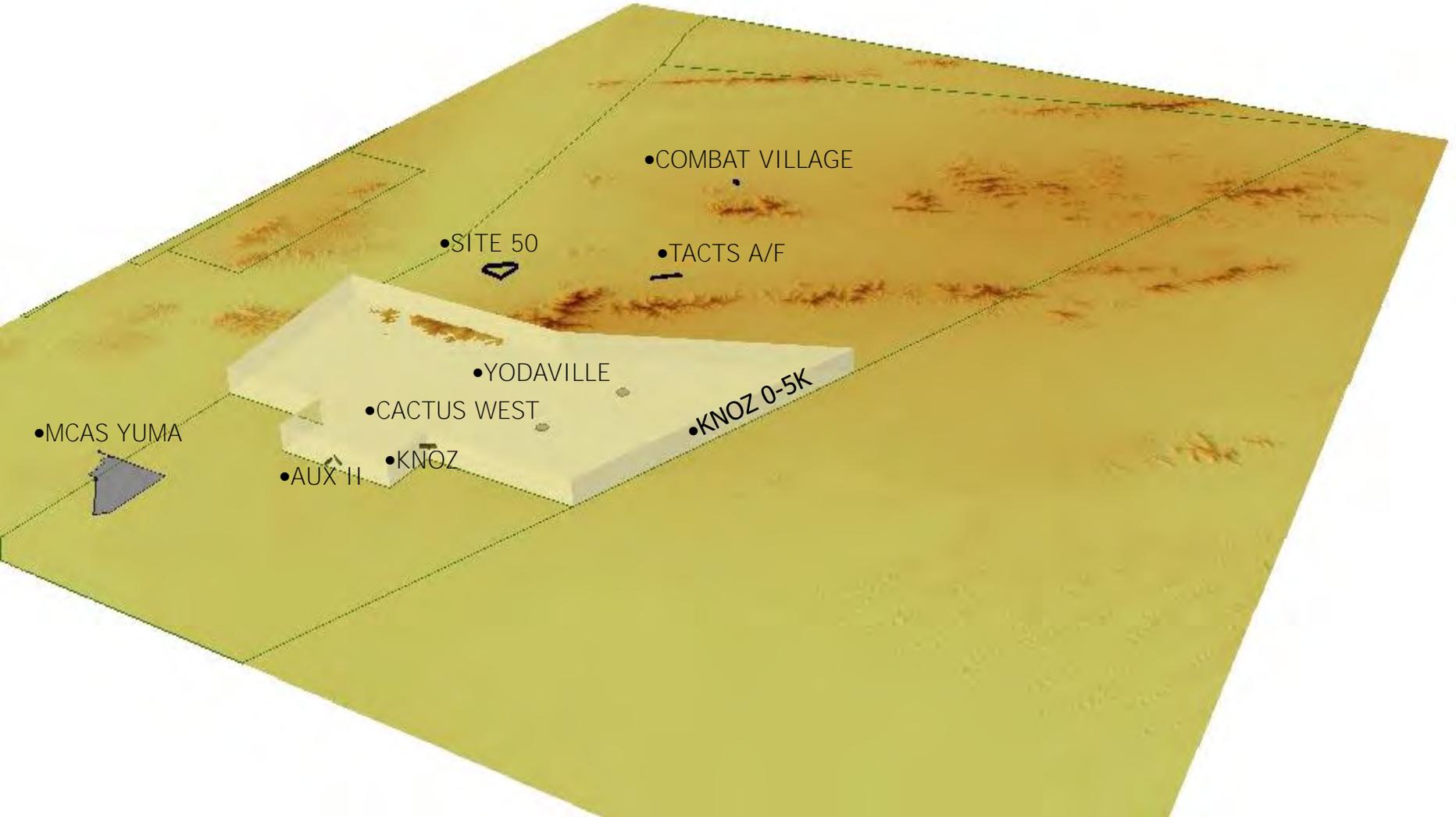
•TACTS A/F

•COMBAT VILLAGE

•R-2301 W

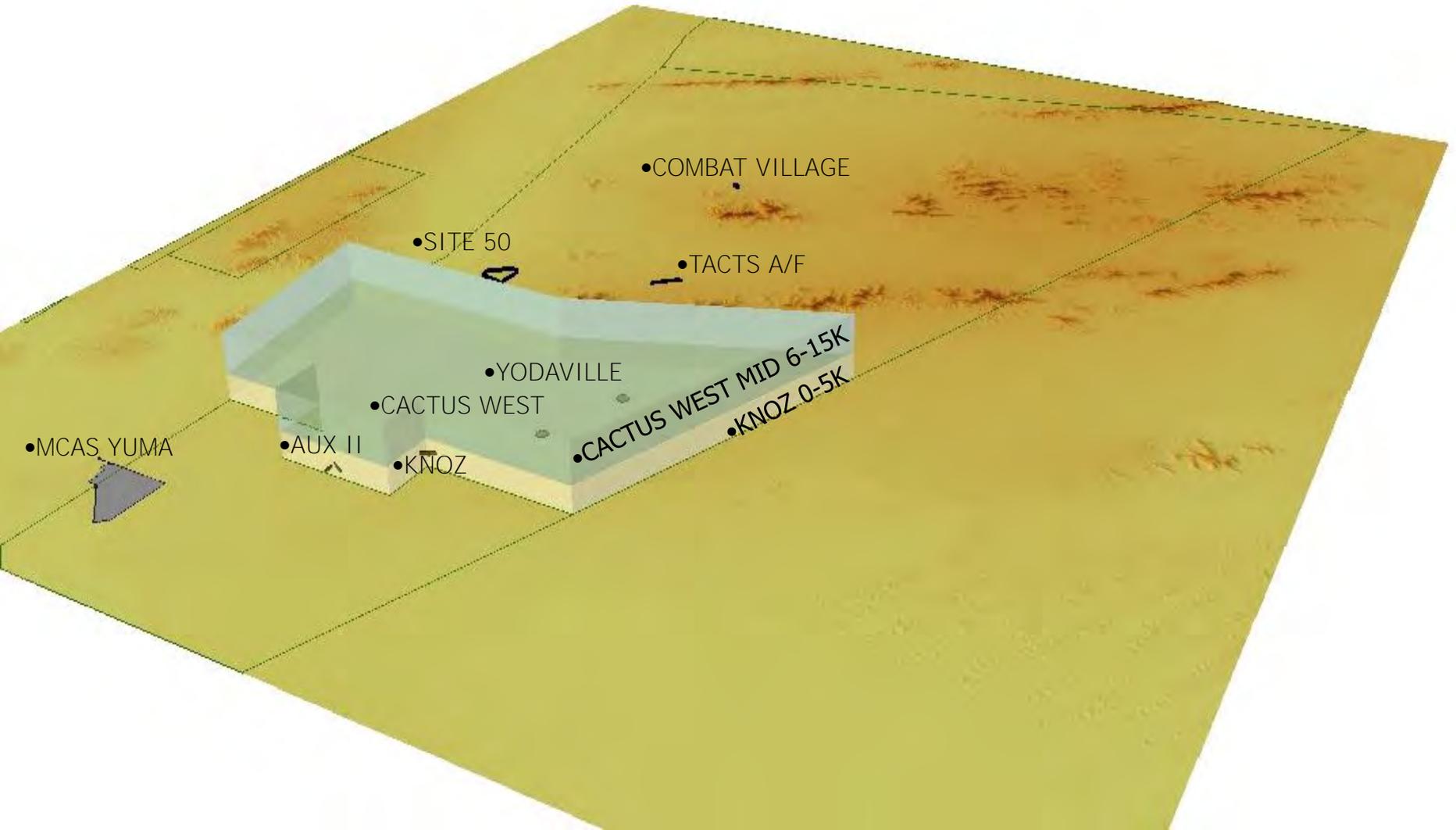


R 2301 W (KNOZ)



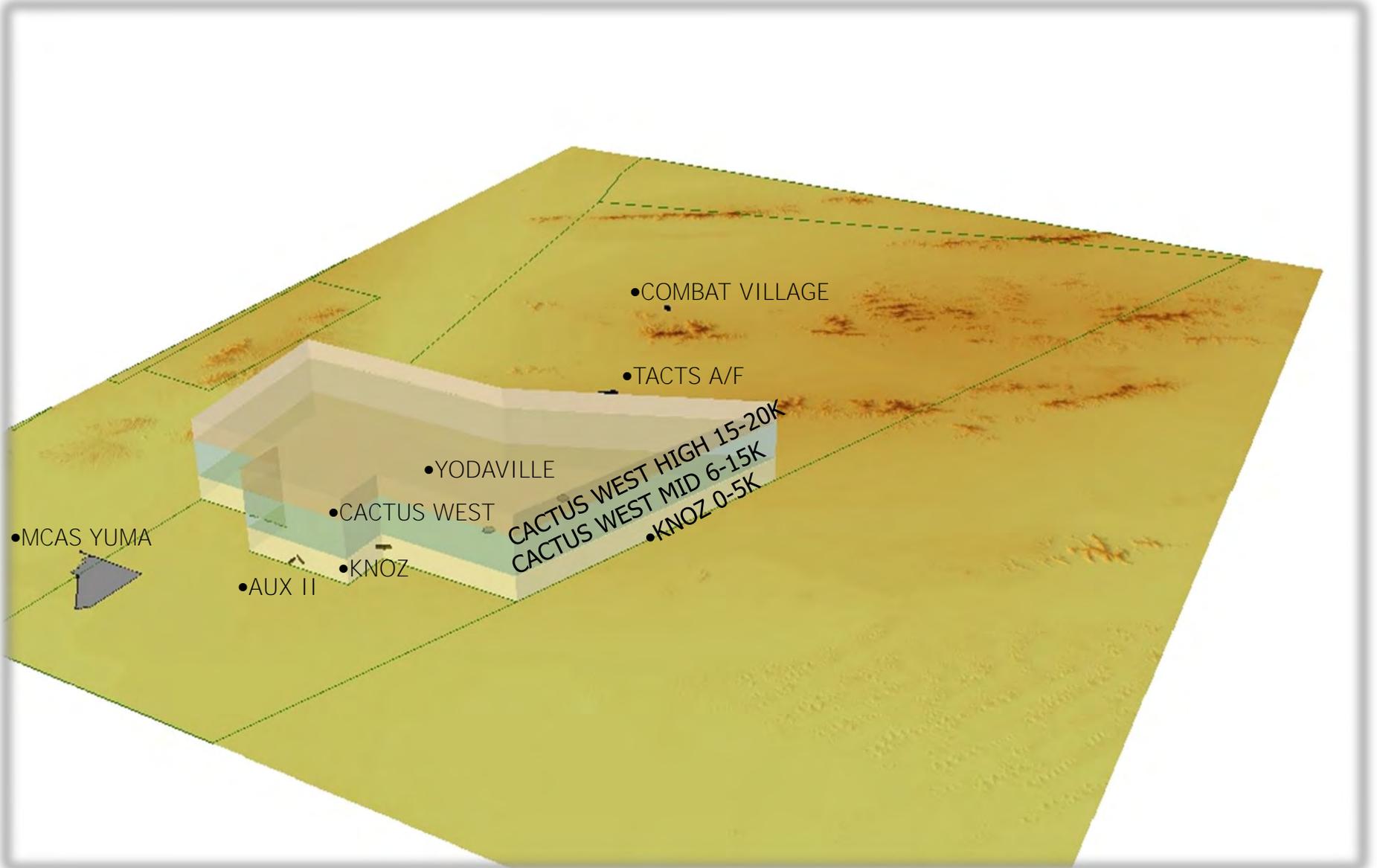


R 2301 W (CW MID)



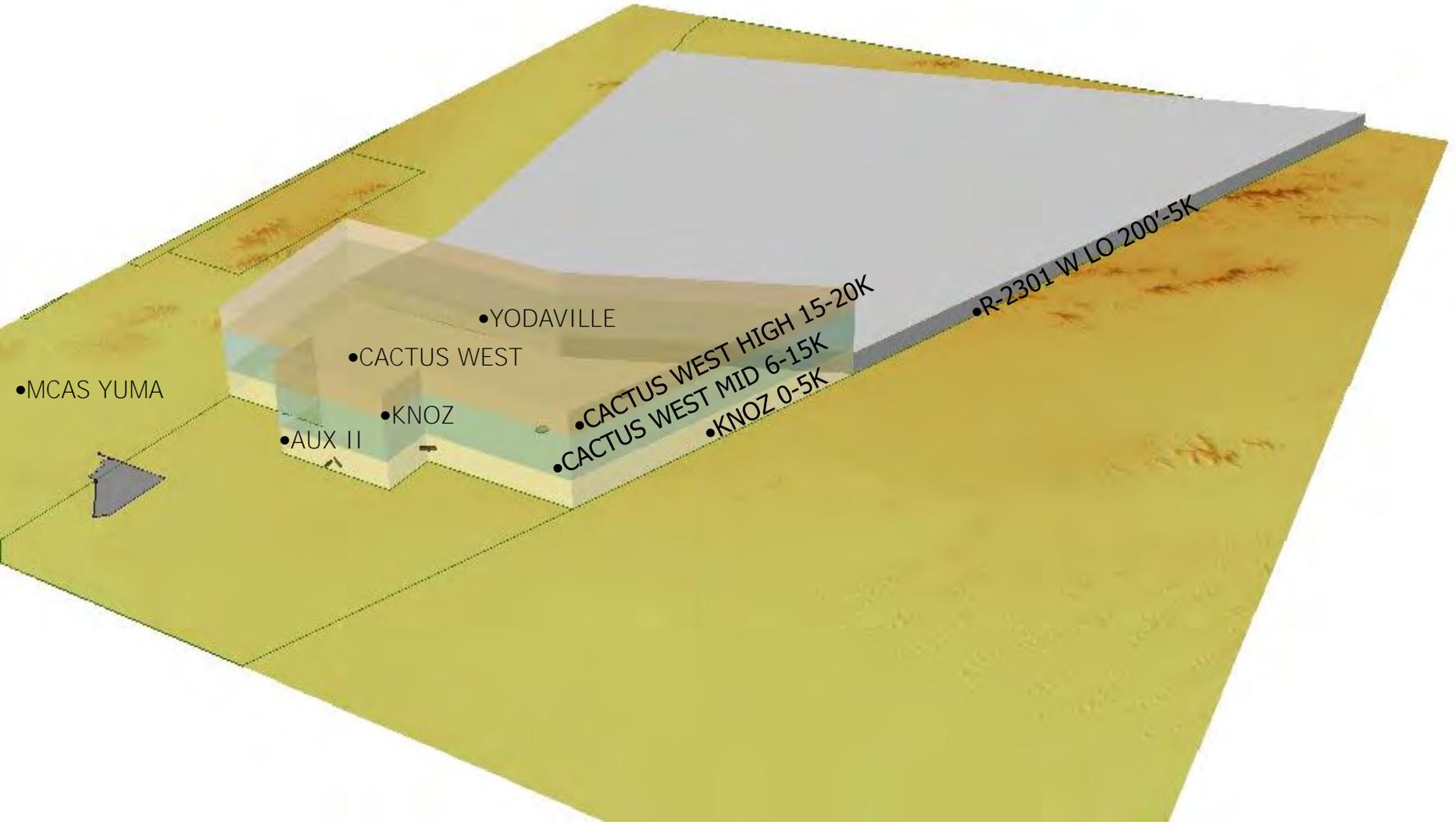


R 2301 W (CW HIGH)



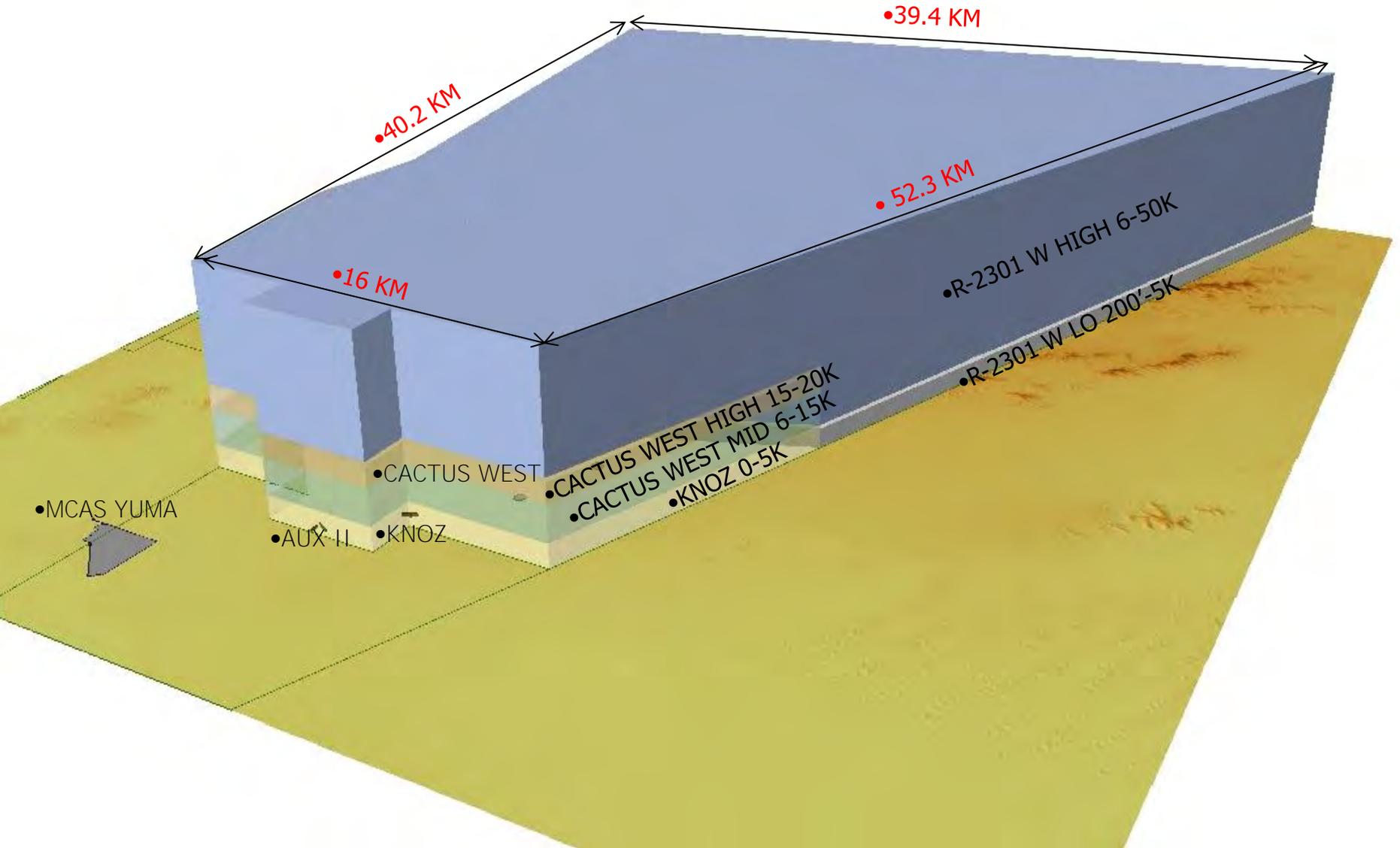


R 2301 W (2301W LO)



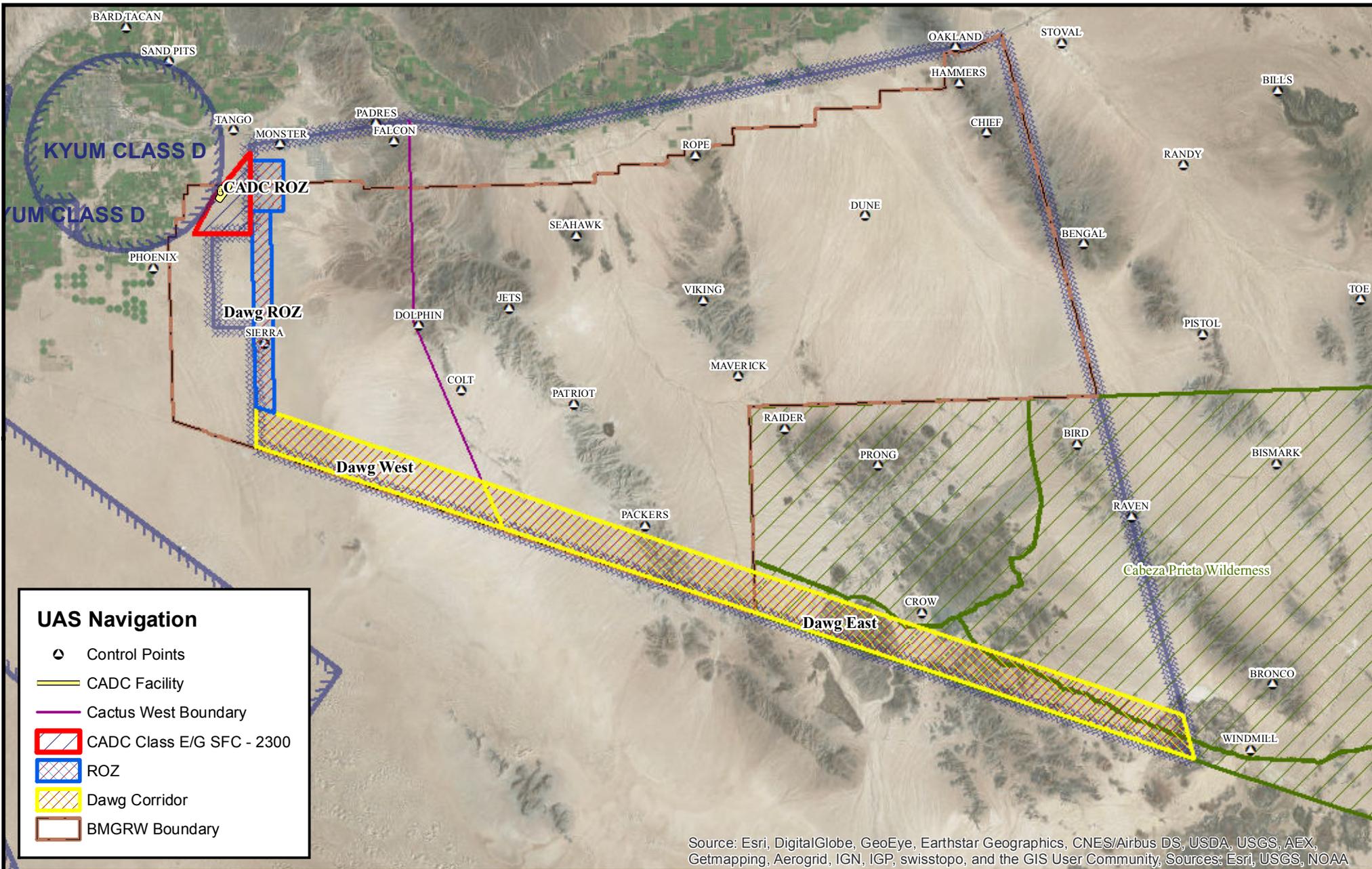


R 2301 W (2301W HIGH)



UAS Airspace Sub-Ranges

- CADC ROZ
- DAWG ROZ
- DAWG Corridor West
- DAWG Corridor East



UAS Navigation

- Control Points
- CADC Facility
- Cactus West Boundary
- CADC Class E/G SFC - 2300
- ROZ
- Dawg Corridor
- BMGRW Boundary

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Sources: Esri, USGS, NOAA



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**CADC ROZ & Dawg ROZ Corridor
MARINE CORPS AIR STATION YUMA**



Although every effort has been made to ensure the accuracy of the information, errors and conditions originating from physical sources to develop the database may be reflected in the data supplied. The user must be aware of data conditions and ultimately bear the responsibility for the appropriate use of the information with respect to possible errors original map scale, collection methodology, currency of the data, and other conditions specific to certain data. This information does not depict all possible resources. Field verification of all data is required for site-specific projects. This information is deemed reliable, but not guaranteed.



16-119
16 June 2016

DAWG CORRIDOR COORDINATES

CADC Class E/G

POINT_ID	MGRS	Latitude	Longitude
1	11SQS3672715728	32° 39' 14" N	114° 28' 34" W
2	11SQS3691307921	32° 35' 0" N	114° 28' 34" W
3	11SQS3121307767	32° 35' 0" N	114° 32' 12" W
4	11SQS3302011139	32° 36' 48" N	114° 31' 0" W

CADC ROZ

POINT_ID	MGRS	Latitude	Longitude
A	11SQS3676315000	32° 38' 50" N	114° 28' 33" W
B	11SQS4000015000	32° 38' 48" N	114° 26' 29" W
C	11SQS4000010000	32° 36' 5" N	114° 26' 33" W
D	11SQS3688210000	32° 36' 8" N	114° 28' 33" W

Dawg ROZ

POINT_ID	MGRS	Latitude	Longitude
A	11SQS3688210000	32° 36' 8" N	114° 28' 33" W
B	11SQS3873410000	32° 36' 6" N	114° 27' 22" W
C	11SQR3920090273	32° 25' 26" N	114° 27' 22" W
D	11SQR3733390895	32° 25' 48" N	114° 28' 33" W

Dawg West

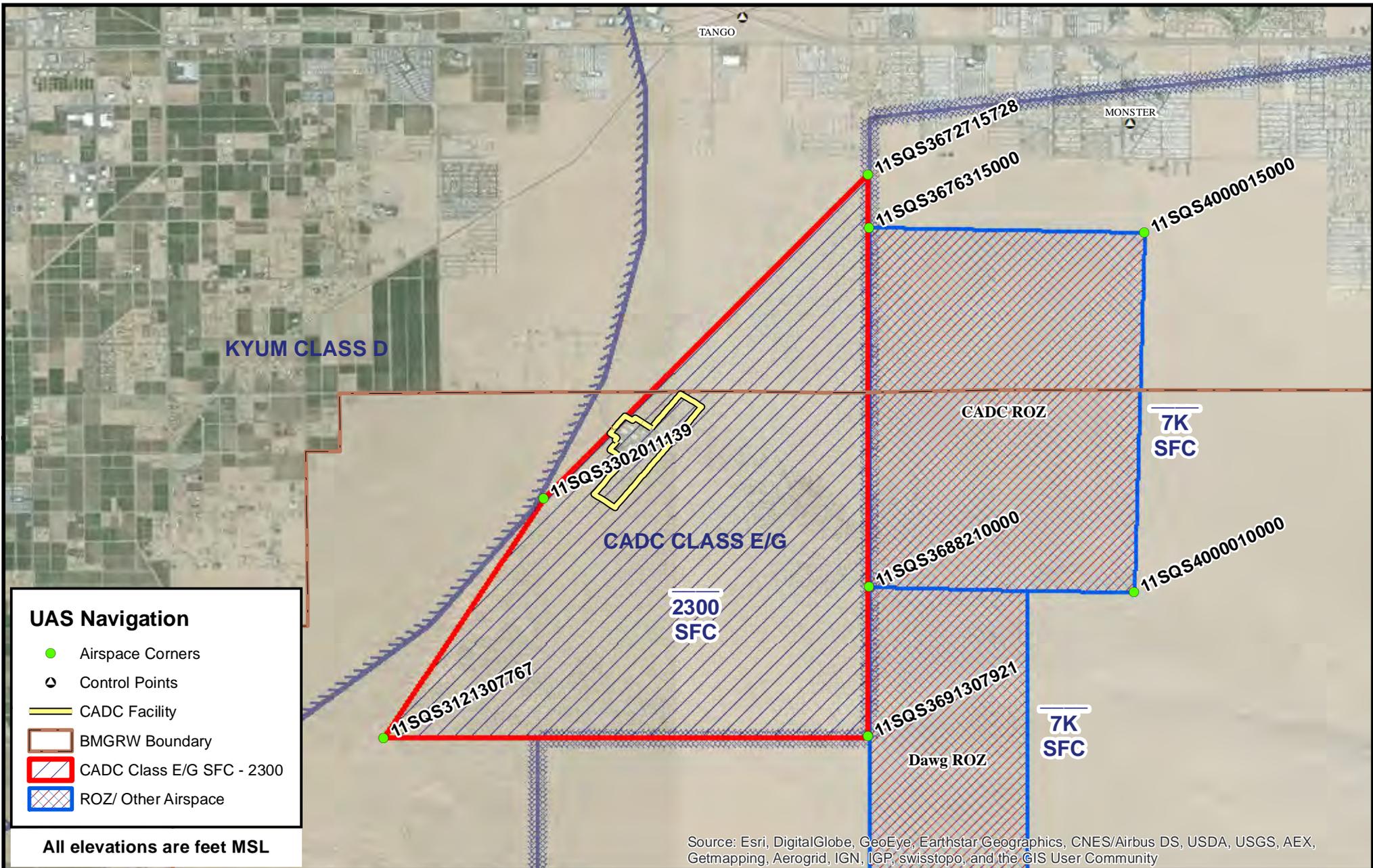
POINT_ID	MGRS	Latitude	Longitude
A	11SQR3733390895	32° 25' 48" N	114° 28' 33" W
B	11SQR5956983521	32° 21' 31" N	114° 14' 30" W
C	11SQR6156478916	32° 19' 0" N	114° 13' 18" W
D	11SQR3742586961	32° 23' 40" N	114° 28' 33" W

Dawg East

POINT_ID	MGRS	Latitude	Longitude
A	11SQR5956983521	32° 21' 31" N	114° 14' 30" W
B	12STA6222558075	32° 8' 2" N	113° 31' 14" W
C	12STA6312153738	32° 5' 42" N	113° 30' 36" W
D	11SQR6156478916	32° 19' 0" N	114° 13' 18" W

Project ID: 16-119

Date: 13JUL16



UAS Navigation

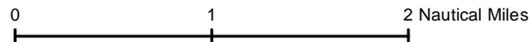
- Airspace Corners
- ◊ Control Points
- CADC Facility
- BMGRW Boundary
- CADC Class E/G SFC - 2300
- ROZ/ Other Airspace

All elevations are feet MSL

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**CADC ROZ
MARINE CORPS AIR STATION YUMA**

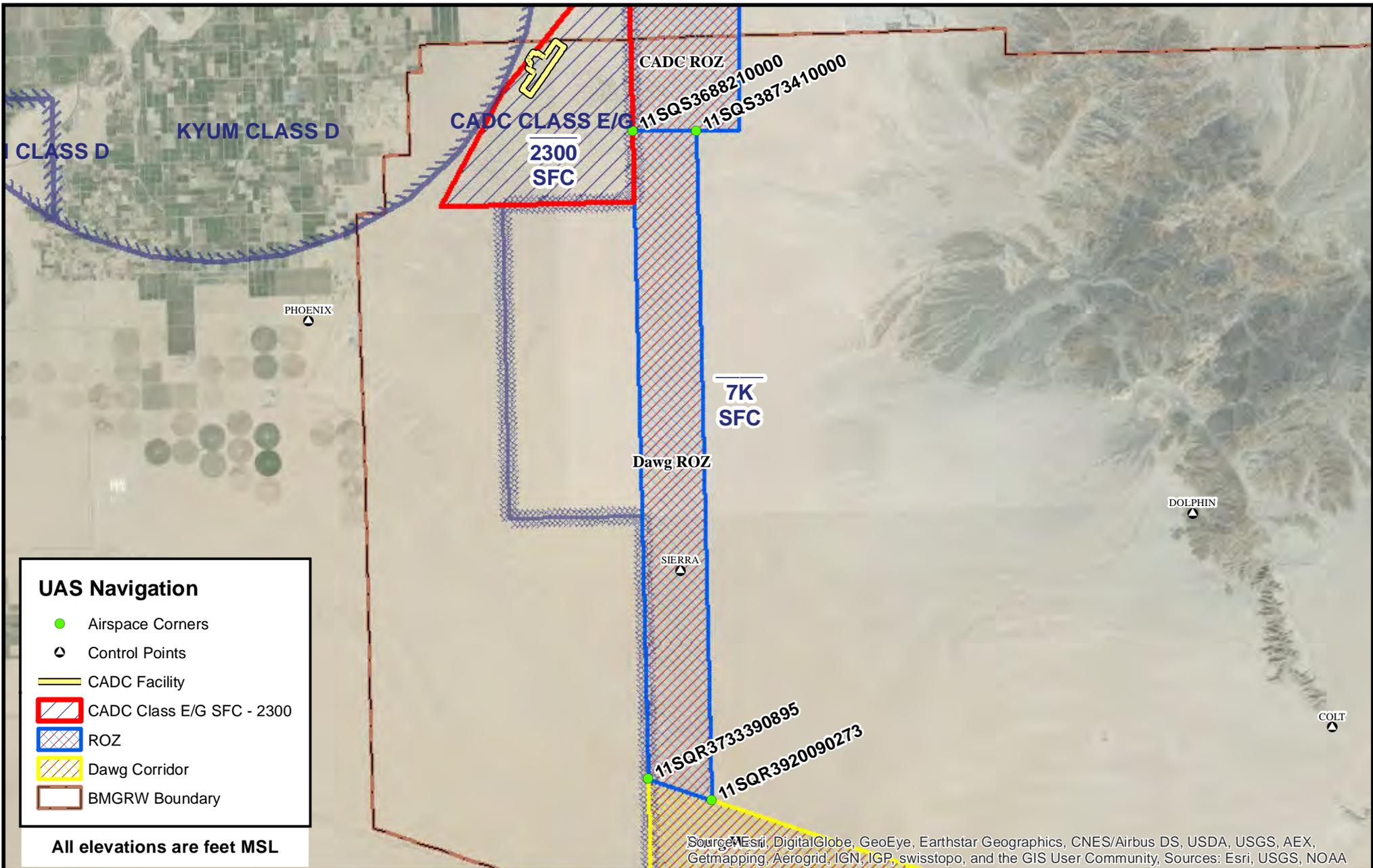


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13 July 2016

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UAS Navigation

- Airspace Corners
- ▲ Control Points
- CADC Facility
- CADC Class E/G SFC - 2300
- ROZ
- Dawg Corridor
- BMGRW Boundary

All elevations are feet MSL

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Sources: Esri, USGS, NOAA



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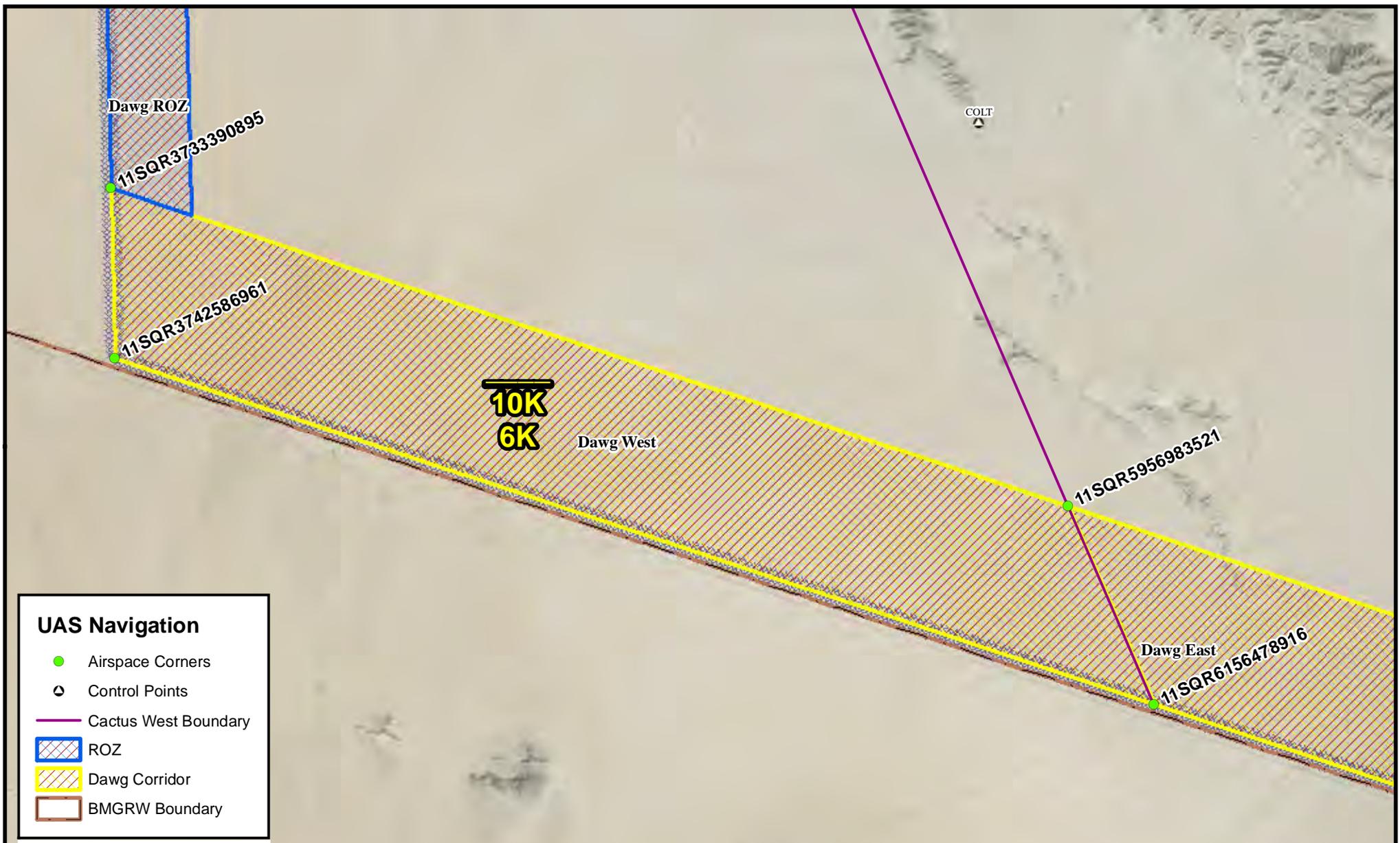
**Dawg ROZ
MARINE CORPS AIR STATION YUMA**



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UAS Navigation

- Airspace Corners
- ◻ Control Points
- Cactus West Boundary
- ROZ
- Dawg Corridor
- BMGRW Boundary

All elevations are feet MSL

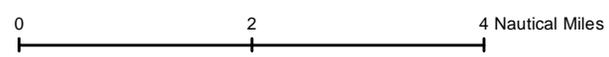
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Sources: Esri, USGS, NOAA



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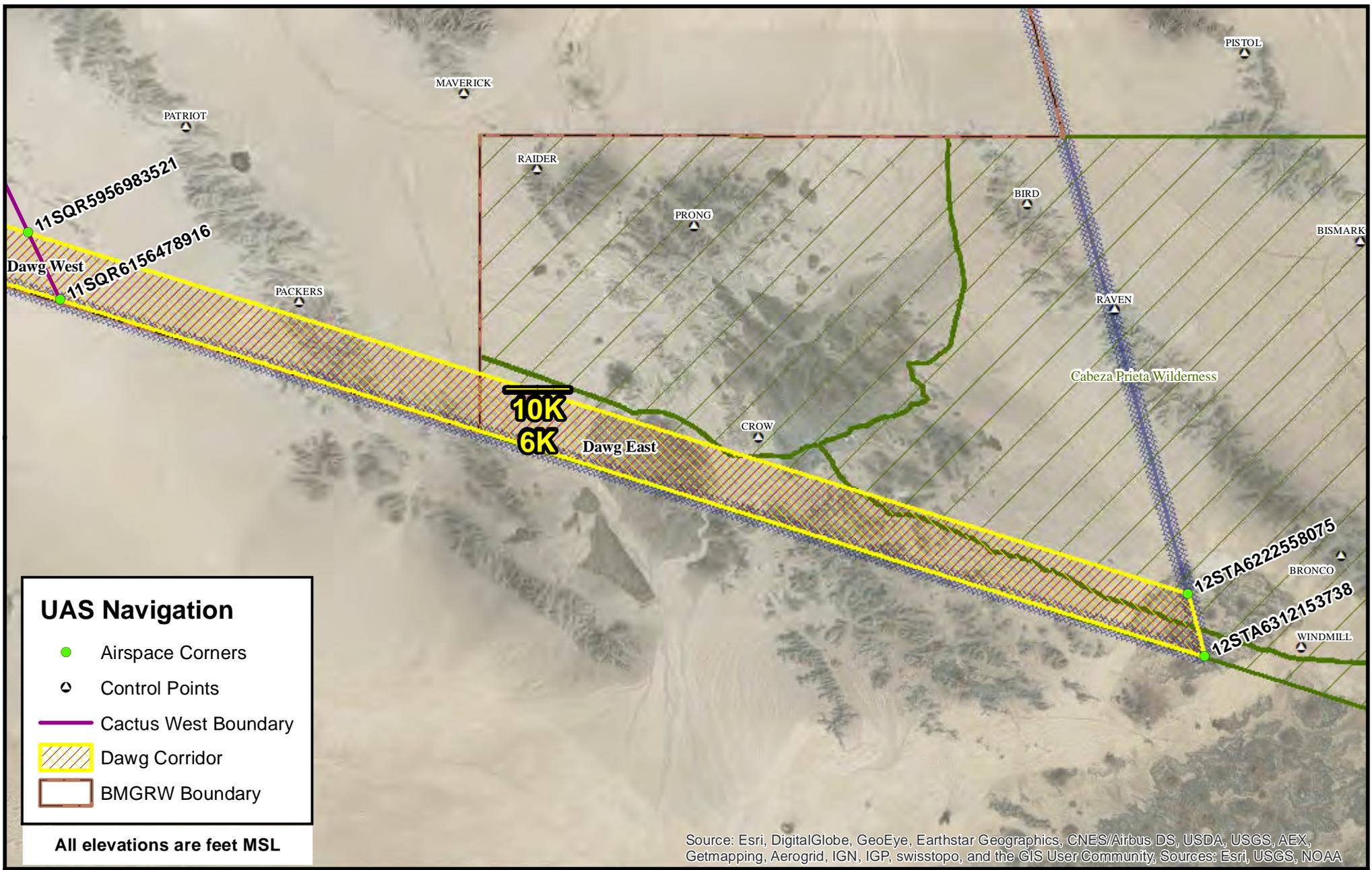
Dawg West Corridor MARINE CORPS AIR STATION YUMA



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UAS Navigation

- Airspace Corners
- ⊙ Control Points
- Cactus West Boundary
- ▨ Dawg Corridor
- ▭ BMGRW Boundary

All elevations are feet MSL

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Sources: Esri, USGS, NOAA

**Dawg East Corridor
MARINE CORPS AIR STATION YUMA**



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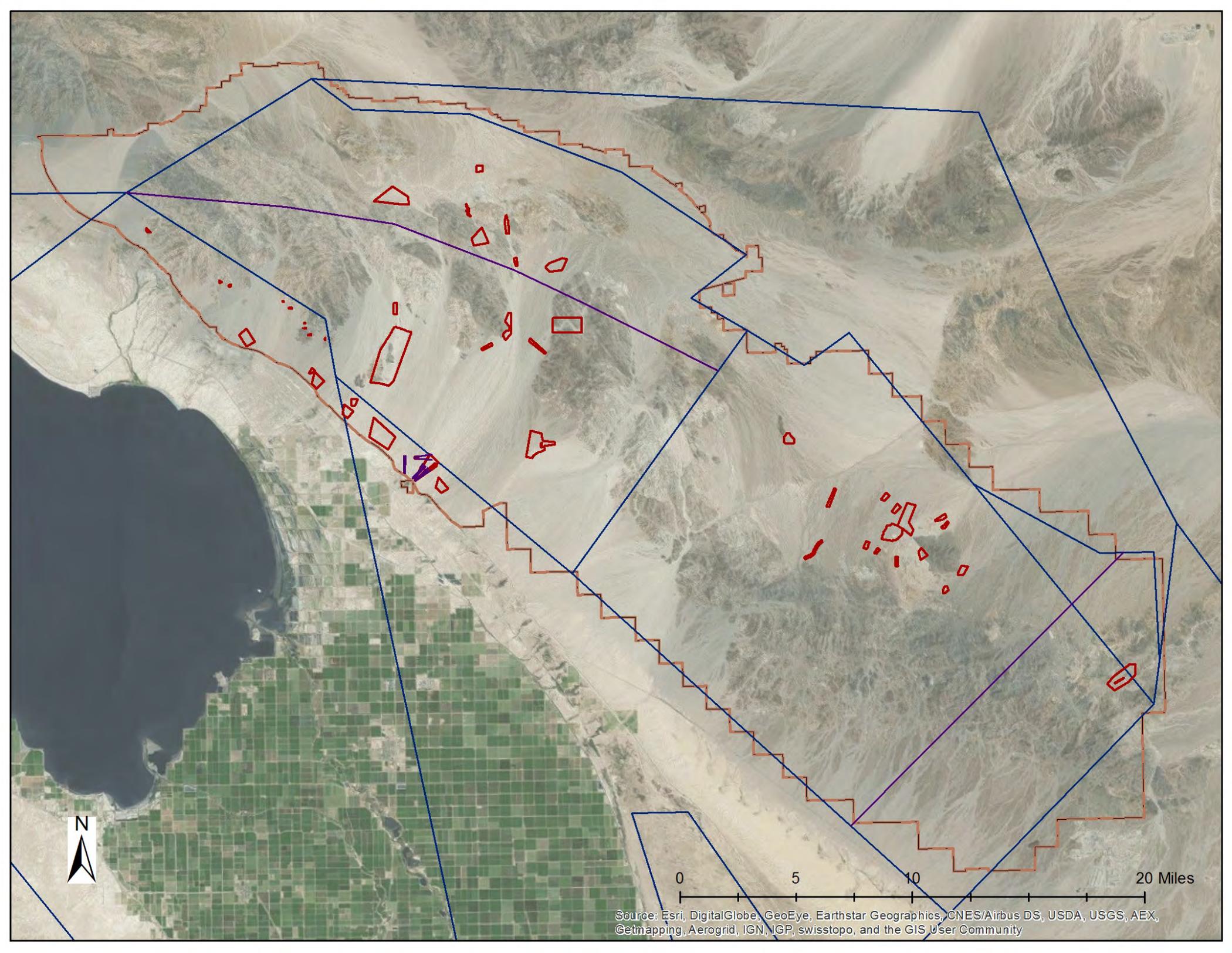
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16-119
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R-2507 CHOCOLATE MOUNTAIN AERIAL GUNNERY RANGE

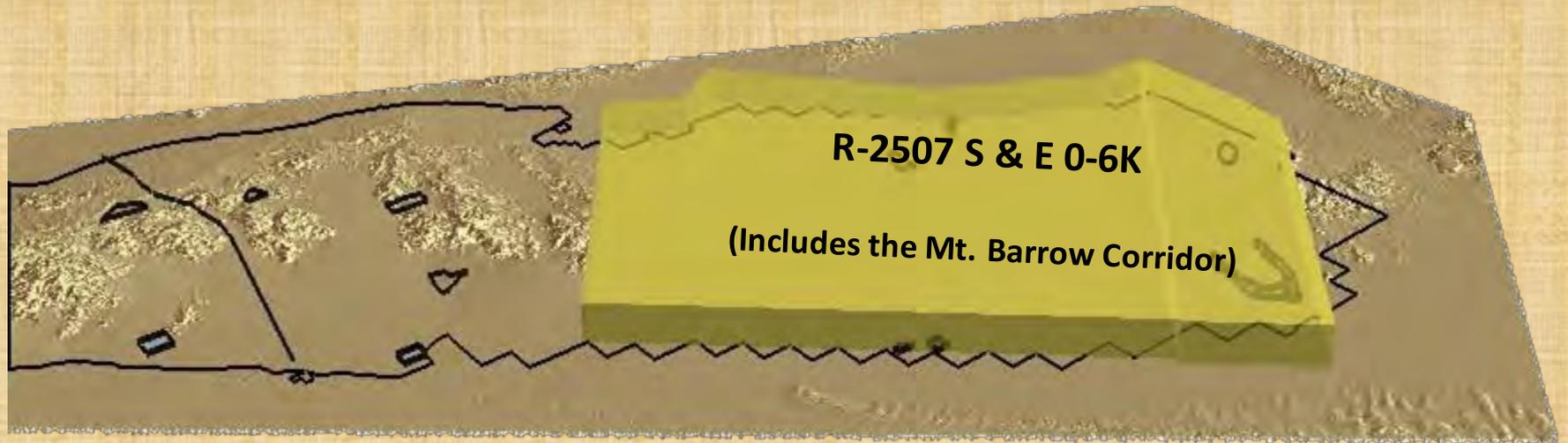
- Range Boundaries... Adhere!
- If Abel MOA's were not scheduled, aircrew may request from Yuma Range (276.0) 7-23K MSL.
- Abel N MOA and R 2507 N border parallel J-169.
- Noise Abatement: No HE Ordnance deliveries 2200L-0600L (PST)



0 5 10 20 Miles

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

R-2507 S & E 0-6K

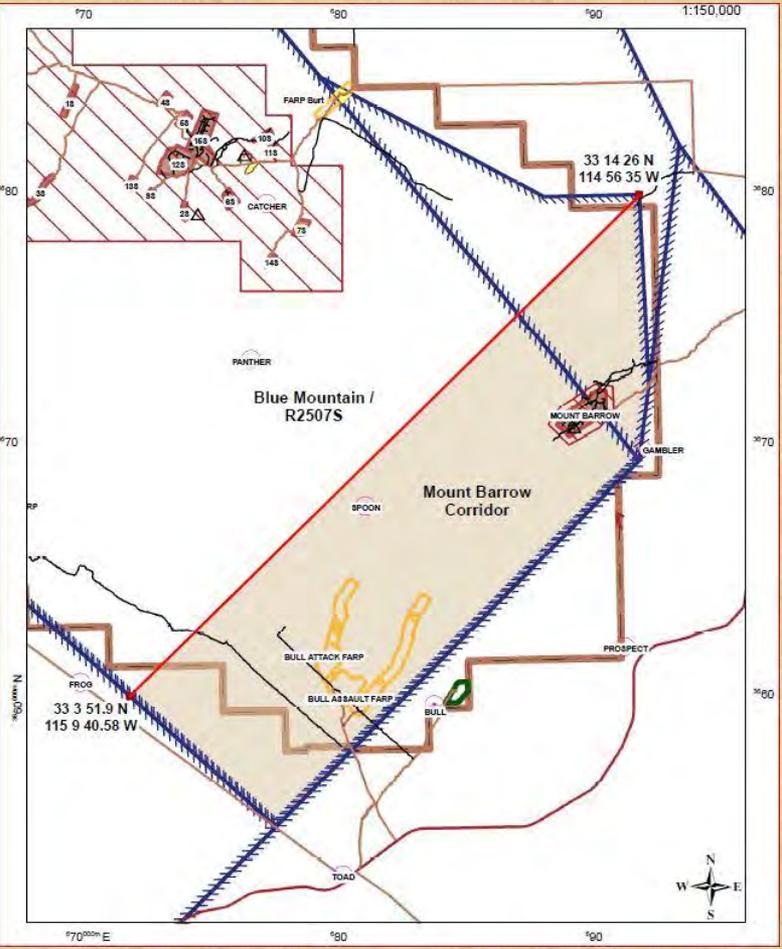


R-2507 S & E 0-6K and 7-31K



R-2507 S & E 0-31K





Mt. Barrow Corridor 0-6K



Blue Mountain Low 0-6K



Blue Mountain High 0-31K



NAVAL SPECIAL WARFARE TRAINING



SPECIAL WARFARE TRAINING AREAS

- SWAT-4 and SWAT-5 is located on the western and northern boundary of the R2507N.
- The SWAT ranges are used primarily by NSWG-1/SOCOM/USMC. These ranges support small unit training activities such as:
 - 1 - Demolition Training Range - up to 50 lbs. NEW
 - 1 - Hand grenade range (fragmentation)
 - 1 - Anti-Mechanized range (40mm up to 84mm High Explosive Ordnance)
 - 5 - Static small arm ranges to include 2 long range sniper ranges and 1 machine-gun range
 - 14 - Live-Fire and Maneuver ranges in support of small unit tactics
- Using units conduct small arms training in/around depicted area.
- SWAT 5 is currently in a dormant status.

SPECIAL WARFARE TRAINING AREAS

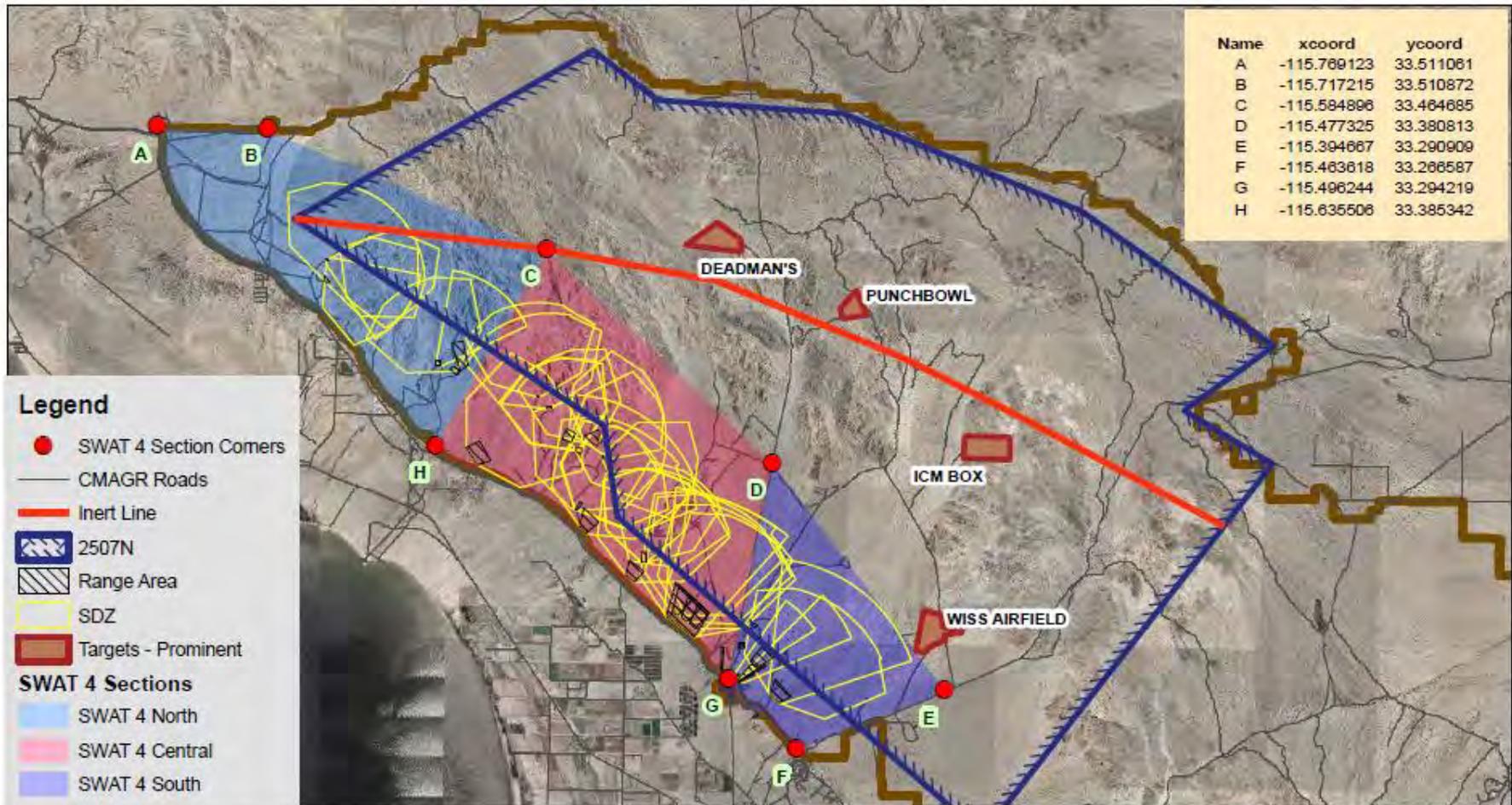
- All aircraft seeking access to R-2507N will be advised the status of SWAT 4.
- SWAT 4 is partitioned into North/Central/South sections (See Slide 27).
- SWAT 4 active altitudes will generally be 3,000 feet Above Ground Level (AGL). 6K MSL in case of Mortars and Demolitions training.
- Fixed wing aircraft checking in with Yuma Range on 276.0 will be advised of which SWAT section, or combination of SWAT sections are in an active status along with corresponding active altitudes.
- Aircraft shall remain clear of these active sections of SWAT 4.

SPECIAL WARFARE TRAINING AREAS

- All scheduled SWAT training available by checking RFMSS two week calendar or checking Yuma Range restrictions and notifications:

<http://www.mcasyma.marines.mil/Resources/RangeNotifications.aspx>

- Contact LEG IRON at (928)269-7080 prior to mission to confirm SWAT range status.
- If airborne, Rotary Winged aircraft can confirm SWAT range status by contacting LEG IRON on 310.0.

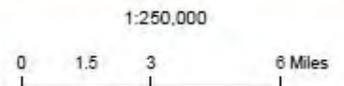



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SWAT 4 NORTH, CENTRAL, AND SOUTH SECTIONS

CHOCOLATE MOUNTAIN AERIAL GUNNERY RANGE

MCAS-YUMA



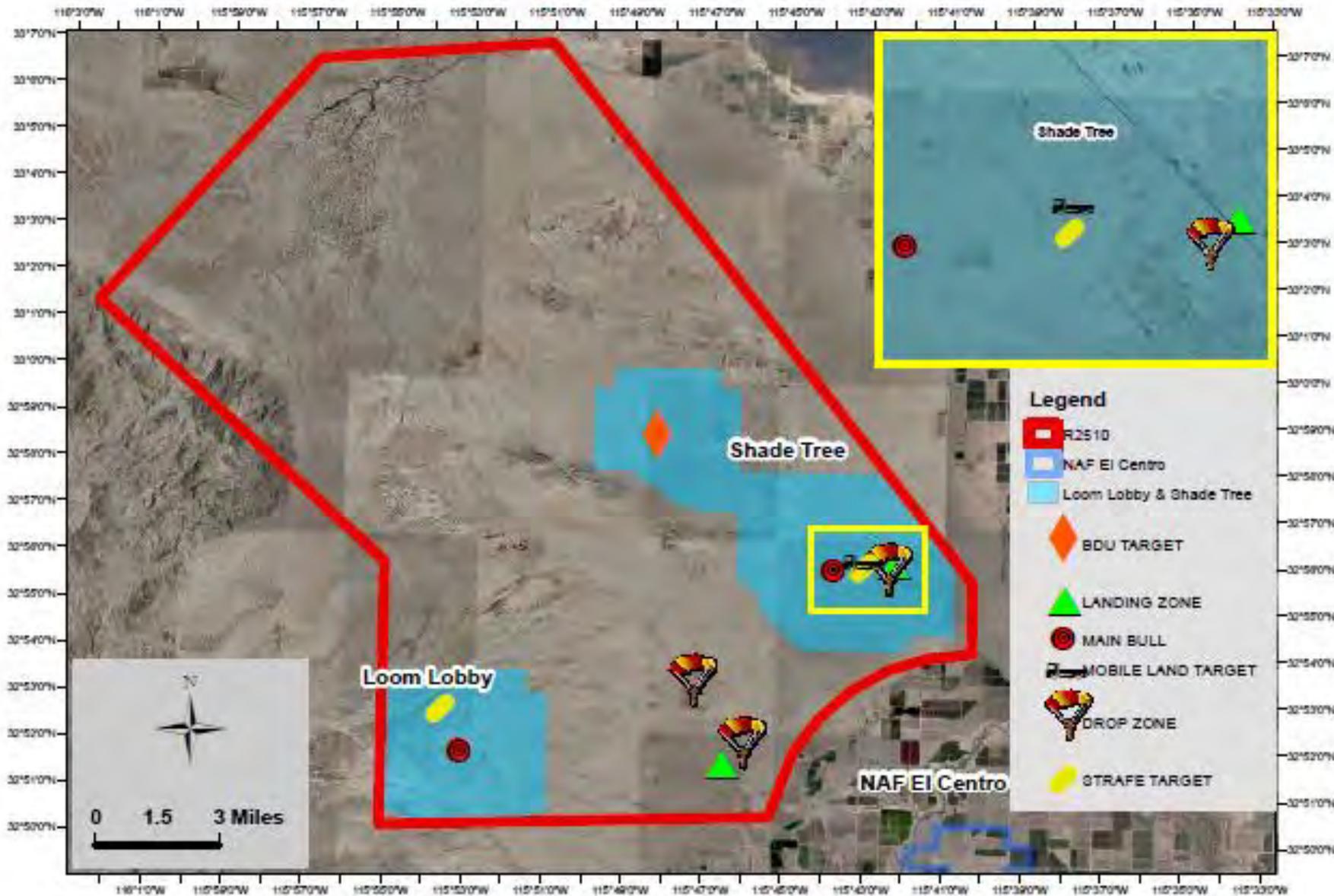
WO 12-521: Updated 1/25/2013

FIGURE 4-10 SWAT 4 NORTH/CENTRAL/SOUTH SECTIONS

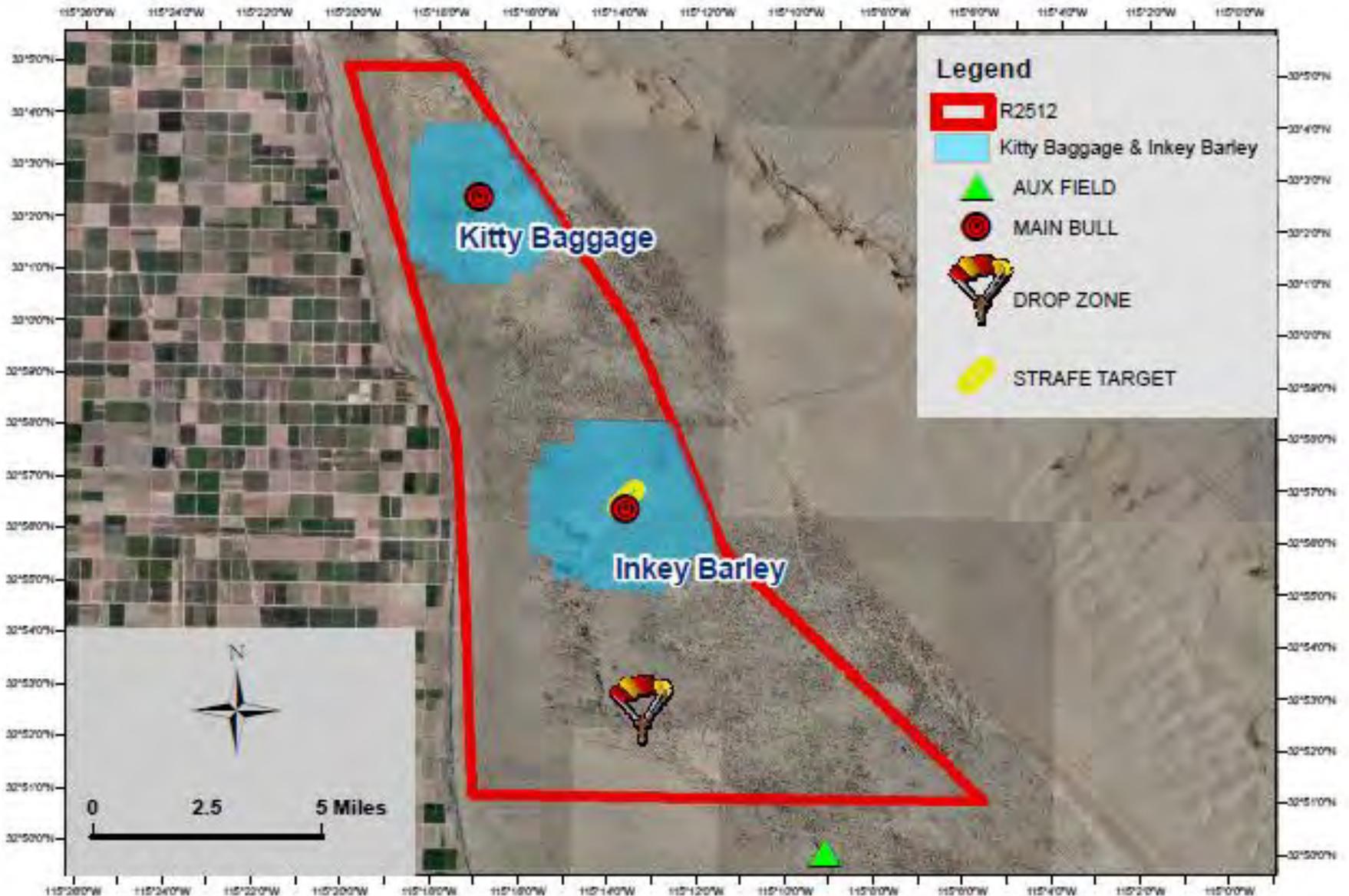
EL CENTRO RANGES



R-2510



R-2512



CHECK-OUT PROCEDURES



MISSION COMPLETE

All aircraft employing ordnance on targets within R-2507 will, upon checkout, provide quantity, type and target area where ordnance was expended. Aircrews may utilize one or more of the following target areas (see slide 9):

Blue Mountain TGT- 1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S, 10S, 11S, 12S, 13S, 14S, 15S

Punch Bowl TGT- 2N, 9N, 10N, 11N

Dead Man CAS Range TGT- 3N

IRIS Wash TGT- 1N, 6N, 7N, 13N, 14N

ICM Box

WISS Airfield TGT- 15N

Mt Barrow (Rotary Wing / Tilt-Rotor only)

SUMMARY

- Rotary-Winged Restricted Airspace Access
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 - R-2507
 - Naval Special Warfare Training
- El Centro Ranges
- Checkout Procedures