

R 192011Z JUL 16

FM MCAS YUMA AZ

BT

UNCLAS

SUBJ/RESTRUCTURING OF AIRSPACE WITHIN R-2301 WEST IN SUPPORT OF UNMANNED AERIAL SYSTEMS OPERATIONS

REF/A/DOC/STAO/3710.6J//

AMPN/REF A IS MCAS YUMA RANGE AND TRAINING AREAS STANDARD OPERATING PROCEDURES.//

RMKS/1. IN ORDER TO INTEGRATE UNMANNED AERIAL SYSTEMS (UAS) AVIATION OPERATIONS IN THE R-2301 WEST, MCAS YUMA HAS ESTABLISHED FOUR NEW SCHEDULABLE AIRSPACE FACILITIES. THESE FOUR NEW FACILITIES ARE DEDICATED TO SUPPORT UAS OPERATIONS ONLY. THE FOUR NEW AIRSPACE FACILITIES ARE AS FOLLOWS:

A. THE CANON AIR DEFENSE COMPLEX RESTRICTED OPERATING ZONE (CADC ROZ). THE CADC ROZ IS USED TO PROVIDE UAS THE ABILITY TO TRANSITION FROM CLASS E&G AIRSPACE TO THE CACTUS WEST AIRSPACE SUB-RANGE WITHIN R-2301 WEST AND TO ALLOW THE AIRCRAFT TO CLIMB TO AN OPERATING ALTITUDE UP TO AND INCLUDING 7K MSL.

(1) LATERAL LIMITS OF THE CADC ROZ: N3238'50" W11428'33"; TO N3238'48" W11426'29"; TO N3236'05" W11426'33"; TO N3236'08" W11428'33" NORTH TO POINT OF ORIGIN.

(2) VERTICAL LIMITS OF THE CADC ROZ ARE SURFACE UP TO AND INCLUDING 7K MSL.

(3) OVERLAPPING AND ADJACENT AREAS. THE CADC ROZ LIES WITHIN THE CACTUS WEST AIRSPACE AND IS A SUB-RANGE OF THE R-2301 WEST.

B. DAWG RESTRICTED OPERATING ZONE (DAWG ROZ) IS USED TO PROVIDE UAS THE ABILITY TO TRANSITION NORTH/SOUTH ALONG THE WESTERN BOUNDARY OF THE R-2301 WEST FROM THE CADC ROZ AIRSPACE TO THE DAWG CORRIDOR WEST AIRSPACE.

(1) LATERAL LIMITS OF THE DAWG ROZ ARE: N3236'08" W11428'33"; TO N3236'06" W11427'22"; TO N3225'26" W11427'22"; TO N3225'48" W11428'33" NORTH TO POINT OF ORIGIN.

(2) VERTICAL LIMITS. DAWG ROZ IS SURFACE UP TO AND INCLUDING 7K MSL.

(3) OVERLAPPING AND ADJACENT AREAS. DAWG ROZ LIES WITHIN THE CACTUS WEST AIRSPACE AND IS A SUB-RANGE OF THE R-2301 WEST.

C. DAWG CORRIDOR WEST IS USED TO PROVIDE UAS THE ABILITY TO CONDUCT CONCURRENT FLIGHT OPERATIONS IN THE R-2301 WEST AIRSPACE WHILE MINIMIZING IMPACT AND/OR INTERRUPTIONS WITH OTHER AVIATION PLATFORMS.

(1) LATERAL LIMITS OF THE DAWG CORRIDOR WEST ARE: N3225'48" W11428'33"; TO N3221'31" W11414'30"; TO N3219'00" W11413'18"; ALONG THE INTERNATIONAL BORDER BETWEEN THE UNITED STATES AND MEXICO TO N3223'40" W11428'33" NORTH TO POINT OF ORIGIN.

(2) VERTICAL LIMITS. DAWG CORRIDOR WEST IS 6K MSL UP TO AND INCLUDING 10K MSL.

(3) ADJACENT AREAS. DAWG CORRIDOR WEST LIES WITHIN THE CACTUS WEST AIRSPACE AND IS A SUB-RANGE OF THE R-2301 WEST.

D. DAWG CORRIDOR EAST IS USED TO PROVIDE UAS THE ABILITY TO CONDUCT CONCURRENT FLIGHT OPERATIONS IN THE R-2301 WEST AIRSPACE WHILE MINIMIZING IMPACT AND/OR INTERRUPTIONS WITH OTHER AVIATION PLATFORMS.

(1) LATERAL LIMITS OF THE DAWG CORRIDOR EAST ARE:  
N3221'31" W11414'30"; TO N3208'02" W11331'14"; TO N3205'42" W11330'36"; ALONG THE INTERNATIONAL BORDER BETWEEN THE UNITED STATES AND MEXICO N3219'00" W11413'18" NORTH TO POINT OF ORIGIN.

(2) VERTICAL LIMITS. DAWG CORRIDOR EAST IS 6K MSL UP TO AND INCLUDING 10K MSL.

(3) ADJACENT AREAS. DAWG CORRIDOR EAST LIES WITHIN TACTS HIGH AIRSPACE AND IS A SUB-RANGE OF THE R-2301 WEST.

2. ROZ AND ASSOCIATED CORRIDORS ARE AUTHORIZED FOR OPERATIONS FROM CANON AIR DEFENSE COMPLEX AND/OR AUX-II. ALTITUDES ARE AS DESCRIBED IN THIS MESSAGE AND DEPICTED IN REF. A. ONCE UAS IS ESTABLISHED WITHIN THE CONFINES OF R-2301 WEST, ENROUTE CLIMBS ARE AUTHORIZED. UAS LAUNCH MAY BE DELAYED IN THE EVENT OF HIGH DENSITY AVIATION OPERATIONS IN AND AROUND KNOZ/AUX-II AIRSPACE. PRIORITY EVENTS REQUIRING LOW ALTITUDE TACTICS AND TRAINING (LATT) TO CACTUS WEST TARGETS OR YODAVILLE URBAN TRAINING COMPLEX ALONG WITH LARGE FORCE EXERCISES MAY RESTRICT UAS OPERATIONS IN THE CADC ROZ AIRSPACE. DROP DOWNS IN RFMSS FOR THE TARGETS INDICATING LATT OR LARGE FORCE EXERCISES WILL GENERATE AN EVENT CONFLICT WITH CADC ROZ. 3. POC AT THIS COMMAND IS SEAN BUTLER AT COMM: 928-269-5573 OR EMAIL AT SEAN.BUTLER@USMC.MIL.//

BT

# 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

4004.2d Canon Air Defense Complex Restricted Operating Zone  
(CADC ROZ)

1. General. CADC ROZ is used to provide Unmanned Aerial Systems (UAS) the ability to transition from Class E/G airspace to the Cactus West Airspace and to allow the aircraft to climb to an operating altitude above 2,300 ft. MSL.

2. Range Description.

a. Boundaries / Lateral Limits. Within R-2301W, east of the Canon Air Defense Complex, beginning at N32°38'50" W114°28'33" thence due east to N32°38'48" W114°26'29" due south to N32°36'05" W114°26'33" due west to N32°36'08" W114°28'33" due north to origin.

b. Boundaries / Vertical Limits. Surface (381' Mean Sea Level [MSL]) up to and including 7,000 ft. MSL.

c. Overlapping / Adjacent Areas. CADC ROZ lies within Cactus West Airspace sub-range of the R-2301W east of the CADC Class E/G airspace defined in FAA Form 7711-1 UAS COA Attachment 2015-WSA-177.

3. Communication.

a. Refer to Paragraph 4000.4 (page 4-8) or Appendix D of StaO 3710.6\_. UAS aircraft shall contact "LEG IRON" for clearance into Yuma RTA and prior to exiting on 310.0 or 141.85.

b. The following procedures shall be followed by units operating UAS in the R-2301W:

(1) MCAS Yuma Range Control Facility (RCF) "LEG IRON" shall be the central coordination point for all UAS Flight Operations in MCAS Yuma SUA.

(2) UAS aircraft operator shall contact "LEG IRON" (via phone or 310.0) 30 minutes prior to their anticipated launch time into CADC Class E/G Airspace.

(3) "LEG IRON" shall coordinate Beacon Code assignment for UAS aircraft with "YUMA RANGE" and obtain a transponder code if not pre-assigned.

(4) "LEG IRON" will then clear UAS into scheduled airspace.

(5) UAS aircraft operator shall contact "LEG IRON" (via 310.0 or 141.85) 10 minutes prior to their anticipated launch time into CADC Class E/G Airspace. "LEG IRON" will advise "Yuma Range" of the anticipated launch time.

(6) Upon return, "LEG IRON" will notify "YUMA RANGE" when the UAS aircraft is within the CADC Class E/G Airspace.

c. All aircraft will squawk assigned Mode 3A/C within the RTA unless otherwise authorized by "YUMA RANGE."

d. The following information will be passed to "LEG IRON" when checking into designated areas.

Check-in:

- (1) Call sign, number and type of aircraft
- (2) Requested airspace
- (3) Tactical frequency used while in the area

"LEG IRON" will clear aircraft into their appropriately scheduled SUA, assign altitude restrictions, and acknowledge an aircraft SQUAWK code assigned by "YUMA RANGE."

d. UAS aircraft will contact "LEG IRON" when exiting the CADC ROZ airspace. "LEG IRON" will verify number of aircraft departing and advise "YUMA RANGE" when all UAS aircraft have departed the CADC ROZ. The following information will be passed to YUMA RANGE: Call sign; number of aircraft; location; intentions.

e. The scheduled airspace user has a 15-minute window, from start of scheduled time to contact "LEG IRON." After 15 minutes, the CADC ROZ will be closed and the airspace will be made available to other users. If a flight is going to be late, contact Range Scheduling for retaining the scheduled window.

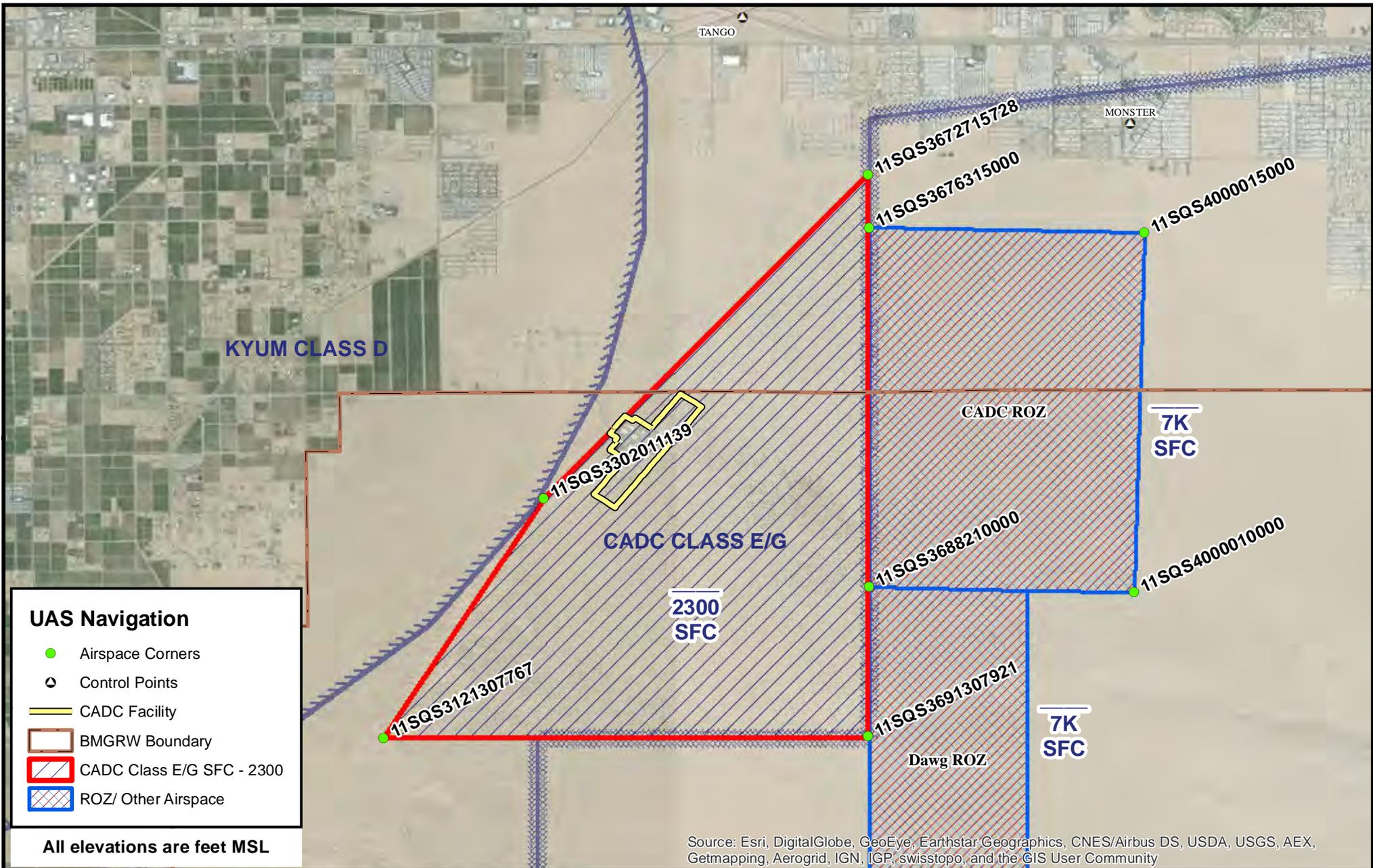
f. Lost communication procedures will be IAW COA 2015-WSA-77.

#### 4. Scheduling

a. The CADC ROZ airspace will be scheduled separately from other R-2301W sub-ranges. UAS units will be the only units permitted to schedule the CADC ROZ airspace.

b. Fixed-Wing / Rotary Wing / Tilt Rotor aircraft are authorized to transit CADC ROZ airspace when it is in an inactive status.

5. Ordnance. No ordnance (including expendables, smokey SAMs or LASERS) are authorized to be employed in CADC ROZ airspace.



**UAS Navigation**

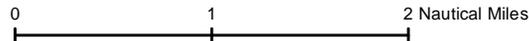
- Airspace Corners
- ◊ Control Points
- CADC Facility
- BMGRW Boundary
- CADC Class E/G SFC - 2300
- ROZ/ Other Airspace

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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16-119  
13 July 2016

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4004.2e DAWG Restricted Operating Zone (DAWG ROZ)

1. General. DAWG ROZ is used to provide Unmanned Aerial Systems (UAS) the ability to transition from CADC ROZ airspace to the DAWG Corridor West airspace.

2. Range Description.

a. Boundaries / Lateral Limits. Within R-2301W, south of the CADC ROZ, beginning at N32°36'08" W114°28'33" thence due east to N32°36'06" W114°27'22" due south to N32°25'26" W114°27'22" northwest to N32°25'48" W114°28'33" due north to origin.

b. Boundaries / Vertical Limits. DAWG ROZ is surface up to and including 7,000 ft. MSL.

c. Overlapping / Adjacent Areas. DAWG ROZ lies within Cactus West Airspace sub-range of the R-2301W due south of the CADC ROZ airspace and due north of the DAWG Corridor West.

3. Communication.

a. Refer to Paragraph 4000.4 (page 4-8) or Appendix D of StaO 3710.6. UAS aircraft shall contact "LEG IRON" for clearance into Yuma RTA and prior to exiting on 310.0 or 141.85.

b. The following procedures shall be followed by units operating UAS in the R-2301W:

(1) MCAS Yuma Range Control Facility (RCF) "LEG IRON" shall be the central coordination point for all UAS Flight Operations in MCAS Yuma SUA.

(2) UAS aircraft operator shall contact "LEG IRON" on 310.0 or 141.85 to request permission to enter the DAWG ROZ airspace. "LEG IRON" will then clear UAS into scheduled airspace.

(3) UAS aircraft operator shall contact "LEG IRON" on 310.0 or 141.85 to request permission to exit the DAWG ROZ airspace and enter the DAWG Corridor West airspace, the CADC ROZ airspace or the CADC Class E/G airspace. "LEG IRON" will then clear UAS into scheduled airspace.

c. All aircraft will squawk assigned Mode 3A/C within the RTA unless otherwise authorized by "YUMA RANGE."

d. The following information will be passed to "LEG IRON" when checking into designated areas.

Check-in:

- (1) Call sign, number and type of aircraft
- (2) Requested airspace
- (3) Tactical frequency used while in the area

"LEG IRON" will clear aircraft into their appropriately scheduled SUA, assign altitude restrictions, and acknowledge an aircraft SQUAWK code assigned by "YUMA RANGE."

d. UAS aircraft will contact "LEG IRON" when exiting the DAWG ROZ airspace to enter the DAWG Corridor West, the CADC ROZ or CADC Class E/G airspace. "LEG IRON" will verify number of aircraft departing and advise "YUMA RANGE" when all UAS aircraft have departed the DAWG ROZ. The following information will be passed to "YUMA RANGE": Call sign; number of aircraft; location; intentions.

e. The scheduled airspace user has a 15-minute window, from start of scheduled time to contact "LEG IRON." After 15 minutes, the DAWG ROZ will be closed and the airspace will be made available to other users. If a flight is going to be late, contact Range Scheduling for retaining the scheduled window.

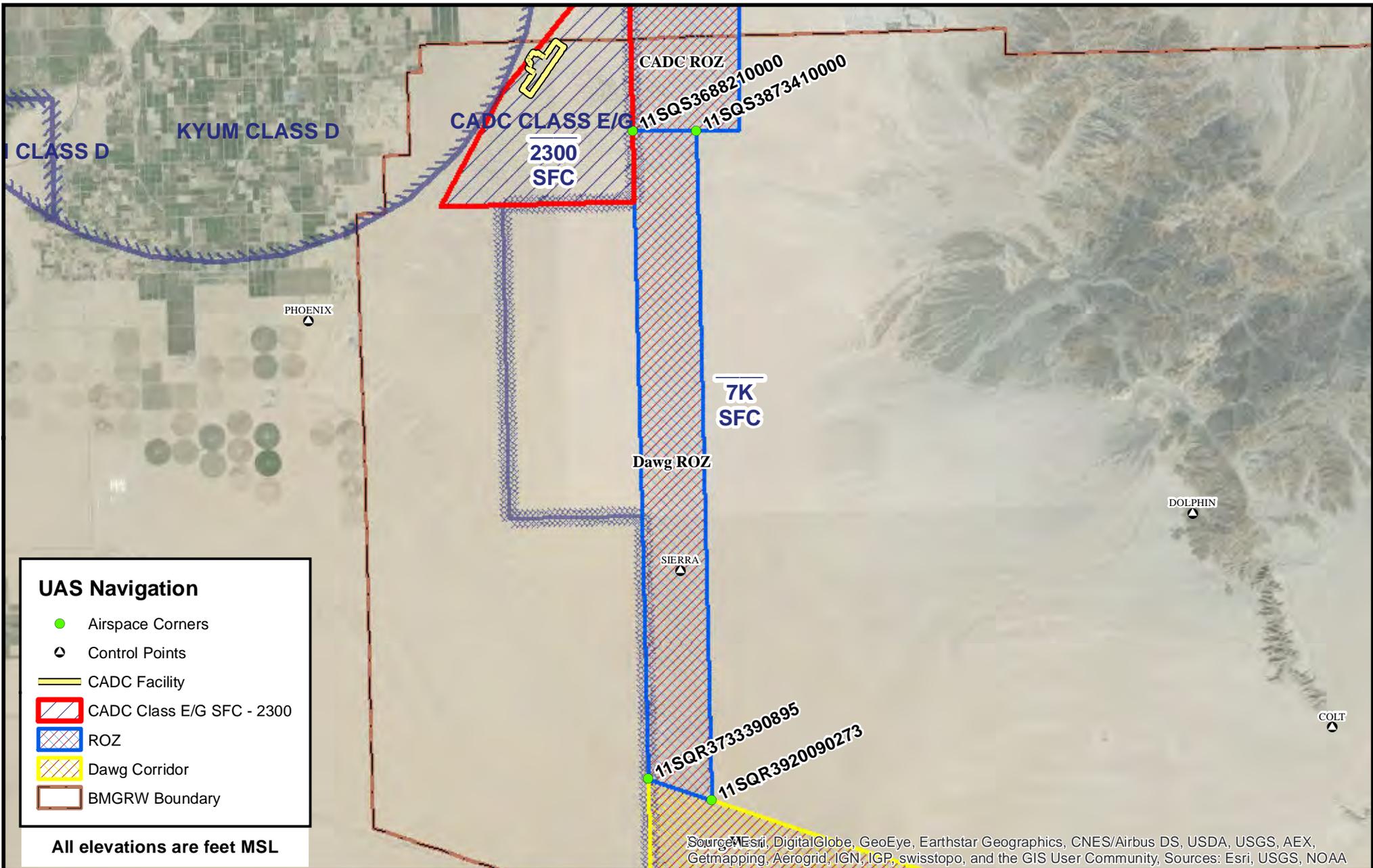
f. Lost communication procedures will be IAW COA 2015-WSA-77.

#### 4. Scheduling

a. The DAWG ROZ airspace will be scheduled separately from other R-2301W sub-ranges. UAS units will be the only units permitted to schedule the DAWG ROZ airspace.

b. Fixed-Wing / Rotary Wing / Tilt Rotor aircraft are authorized to transit CADC ROZ airspace when it is in an inactive status.

5. Ordnance. No ordnance (including expendables, smokey SAMs or LASERS) are authorized to be employed in DAWG ROZ airspace.



**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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16-119  
13 July 2016

4004.2g DAWG Corridor East (DAWG East)

1. General. DAWG East is used to provide Unmanned Aerial Systems (UAS) the ability to conduct flight operations in the DAWG East airspace.

2. Range Description.

a. Boundaries / Lateral Limits. Within R-2301W, south of the TACTS High airspace, west of the R-2301E airspace, north of the U.S. / Mexican border and above the Cabeza Prieta National Wildlife Refuge beginning at N32°21'31" W114°14'30" thence southeast to N32°08'02" W113°31'14" south-southeast to N32°05'42" W113°30'36" northwest along the U.S. / Mexican border to N32°19'00" W114°13'18" due north to origin.

b. Boundaries / Vertical Limits. DAWG East is 6,000 ft. MSL up to and including 10,000 ft. MSL.

c. Overlapping / Adjacent Areas. DAWG East lies within TACTS High airspace sub-range of the R-2301W east of the DAWG West airspace, north of the U.S. / Mexican border and above the Cabeza Prieta National Wildlife Refuge.

3. Communication.

a. Refer to Paragraph 4000.4 (page 4-8) or Appendix D of StaO 3710.6\_. UAS aircraft shall contact "LEG IRON" for clearance into Yuma RTA and prior to exiting on 310.0 or 141.85.

b. The following procedures shall be followed by units operating UAS in the R-2301W:

(1) MCAS Yuma Range Control Facility (RCF) "LEG IRON" shall be the central coordination point for all UAS Flight Operations in MCAS Yuma SUA.

(2) UAS aircraft operator shall contact "LEG IRON" on 310.0 or 141.85 to request permission to exit the DAWG West airspace and enter the DAWG East airspace. "LEG IRON" will then clear UAS into scheduled airspace.

(3) UAS aircraft operator shall contact "LEG IRON" on 310.0 or 141.85 to request permission to exit the DAWG East airspace and enter the DAWG West airspace. "LEG IRON" will then clear UAS into scheduled airspace.

c. All aircraft will squawk assigned Mode 3A/C within the RTA unless otherwise authorized by "YUMA RANGE."

d. The following information will be passed to "LEG IRON" when checking into designated areas.

Check-in:

- (1) Call sign, number and type of aircraft
- (2) Requested airspace
- (3) Tactical frequency used while in the area

"LEG IRON" will clear aircraft into their appropriately scheduled SUA, assign altitude restrictions, and acknowledge an aircraft SQUAWK code assigned by "YUMA RANGE."

d. UAS aircraft will contact "LEG IRON" when exiting the DAWG East airspace to enter the DAWG West. "LEG IRON" will verify number of aircraft departing and advise "YUMA RANGE" when all UAS aircraft have departed the DAWG East. The following information will be passed to "YUMA RANGE": Call sign; number of aircraft; location; intentions.

e. The scheduled airspace user has a 15-minute window, from start of scheduled time to contact "LEG IRON." After 15 minutes, the DAWG West will be closed and the airspace will be made available to other users. If a flight is going to be late, contact Range Scheduling for retaining the scheduled window.

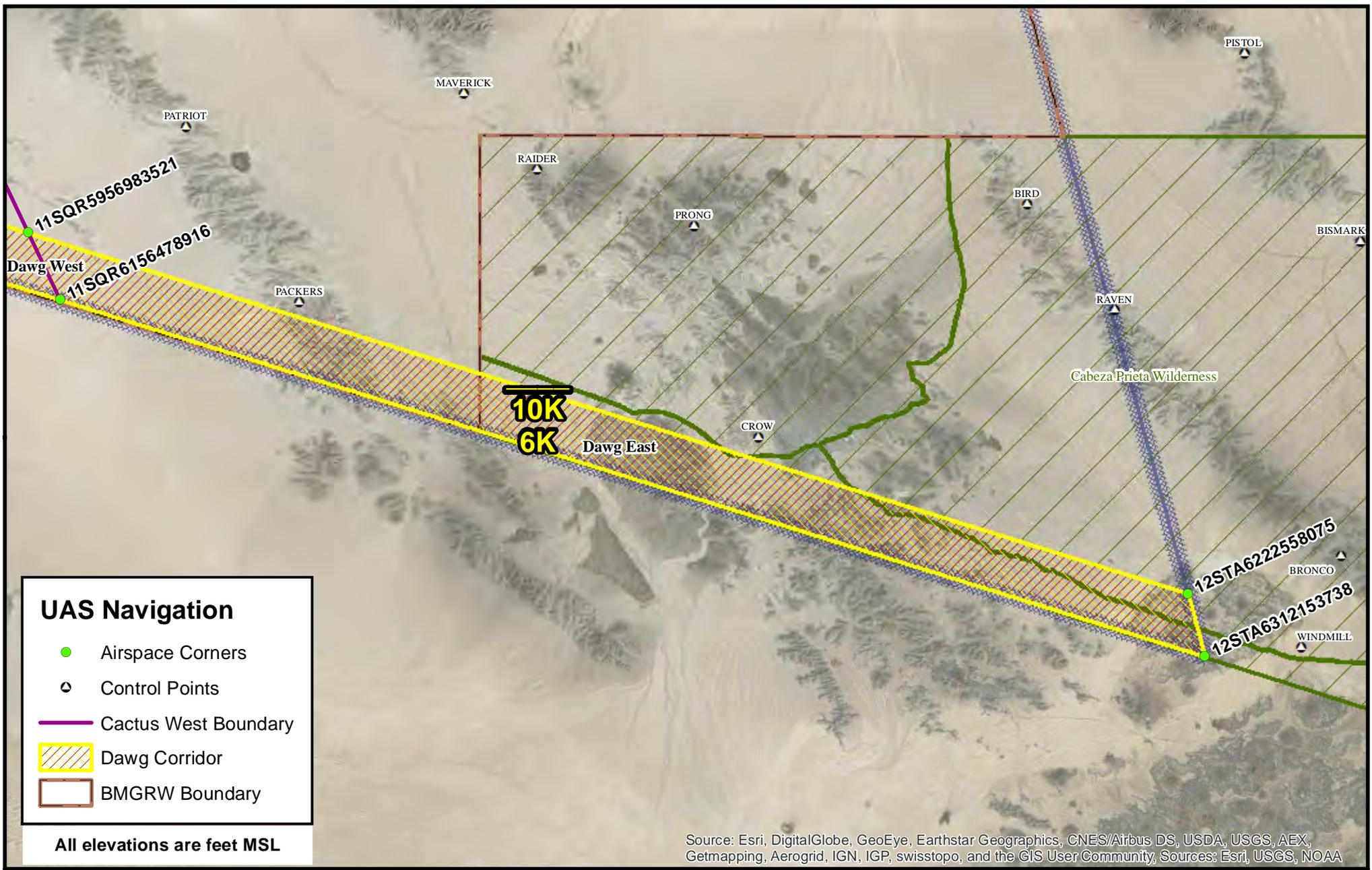
f. Lost communication procedures will be IAW COA 2015-WSA-77.

#### 4. Scheduling

a. The DAWG East airspace will be scheduled separately from other R-2301W sub-ranges. UAS units will be the only units permitted to schedule the DAWG East airspace.

b. Fixed-Wing / Rotary Wing / Tilt Rotor aircraft are authorized to transit DAWG East airspace when it is in an inactive status.

5. Ordnance. No ordnance (including expendables, smokey SAMs or LASERS) are authorized to be employed in DAWG East airspace.



**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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16-119  
13 July 2016

4004.2f DAWG Corridor West (DAWG West)

1. General. DAWG West is used to provide Unmanned Aerial Systems (UAS) the ability to conduct flight operations in the DAWG West airspace.

2. Range Description.

a. Boundaries / Lateral Limits. Within R-2301W, south of the DAWG ROZ airspace, the Cactus West target complex, and the Yodaville UTC beginning at N32°25'48" W114°28'33" thence southeast to N32°21'31" W114°14'30" south-southeast to N32°19'00" W114°13'18" northwest along the U.S. / Mexican border to N32°23'40" W114°28'33" due north to origin.

b. Boundaries / Vertical Limits. DAWG West is 6,000 ft. MSL up to and including 10,000 ft. MSL.

c. Overlapping / Adjacent Areas. DAWG West lies within Cactus West Airspace sub-range of the R-2301W due south of the DAWG ROZ, the Cactus West target complex, the Yodaville UTC and north of the U.S. / Mexican border.

3. Communication.

a. Refer to Paragraph 4000.4 (page 4-8) or Appendix D of StaO 3710.6\_. UAS aircraft shall contact "LEG IRON" for clearance into Yuma RTA and prior to exiting on 310.0 or 141.85.

b. The following procedures shall be followed by units operating UAS in the R-2301W:

(1) MCAS Yuma Range Control Facility (RCF) "LEG IRON" shall be the central coordination point for all UAS Flight Operations in MCAS Yuma SUA.

(2) UAS aircraft operator shall contact "LEG IRON" on 310.0 or 141.85 to request permission to exit the DAWG ROZ airspace and enter the DAWG West airspace. "LEG IRON" will then clear UAS into scheduled airspace.

(3) UAS aircraft operator shall contact "LEG IRON" on 310.0 or 141.85 to request permission to exit the DAWG West airspace and enter the DAWG ROZ airspace or the DAWG Corridor East (DAWG East) airspace. "LEG IRON" will then clear UAS into scheduled airspace.

c. All aircraft will squawk assigned Mode 3A/C within the RTA unless otherwise authorized by "YUMA RANGE."

d. The following information will be passed to "LEG IRON" when checking into designated areas.

Check-in:

- (1) Call sign, number and type of aircraft
- (2) Requested airspace
- (3) Tactical frequency used while in the area

"LEG IRON" will clear aircraft into their appropriately scheduled SUA, assign altitude restrictions, and acknowledge an aircraft SQUAWK code assigned by "YUMA RANGE."

d. UAS aircraft will contact "LEG IRON" when exiting the DAWG West airspace to enter the DAWG East or the DAWG ROZ. "LEG IRON" will verify number of aircraft departing and advise "YUMA RANGE" when all UAS aircraft have departed the DAWG West. The following information will be passed to "YUMA RANGE": Call sign; number of aircraft; location; intentions.

e. The scheduled airspace user has a 15-minute window, from start of scheduled time to contact "LEG IRON." After 15 minutes, the DAWG West will be closed and the airspace will be made available to other users. If a flight is going to be late, contact Range Scheduling for retaining the scheduled window.

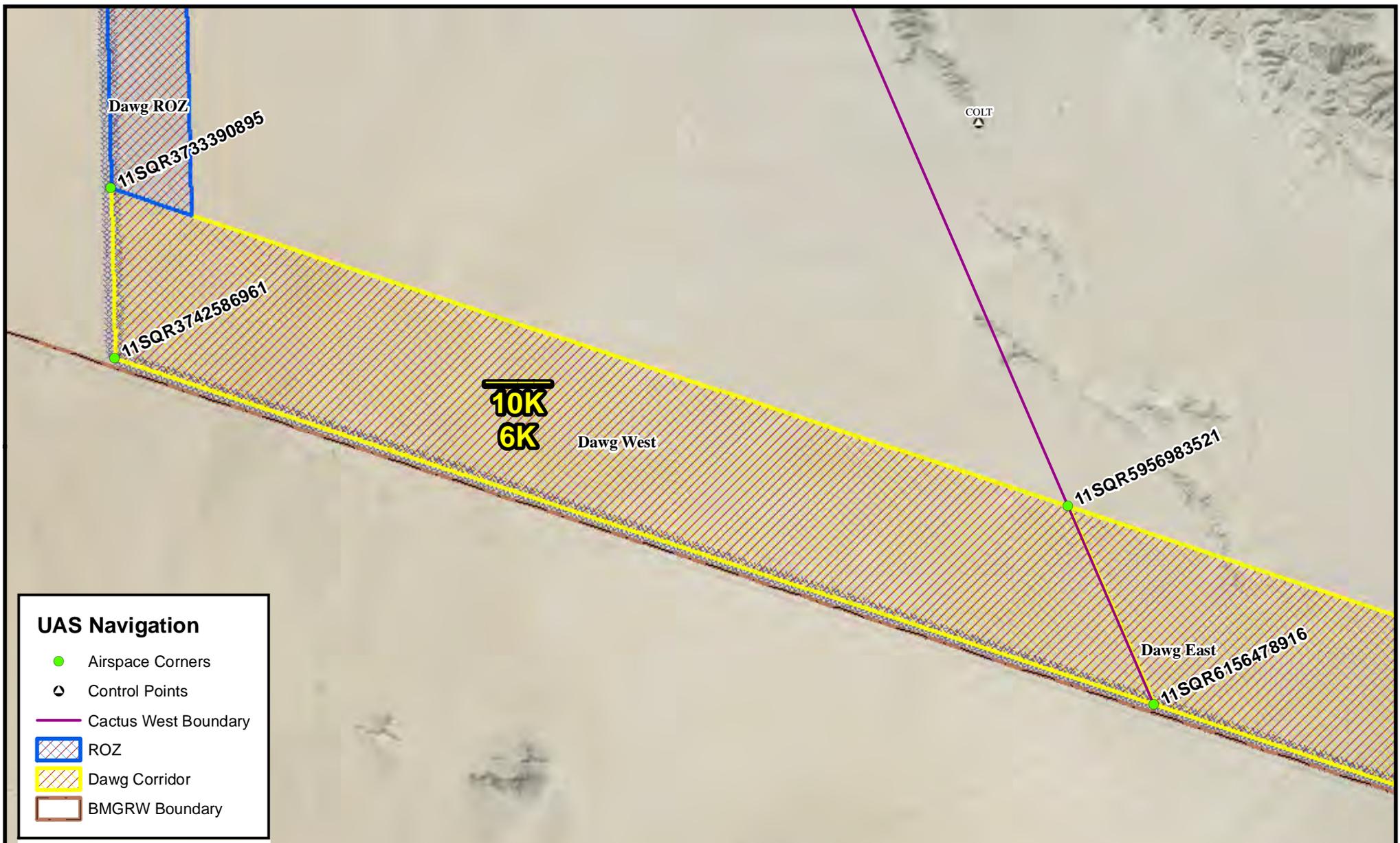
f. Lost communication procedures will be IAW COA 2015-WSA-77.

#### 4. Scheduling

a. The DAWG West airspace will be scheduled separately from other R-2301W sub-ranges. UAS units will be the only units permitted to schedule the DAWG West airspace.

b. Fixed-Wing / Rotary Wing / Tilt Rotor aircraft are authorized to transit DAWG West airspace when it is in an inactive status.

5. Ordnance. No ordnance (including expendables, smokey SAMs or LASERS) are authorized to be employed in DAWG ROZ airspace.



**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



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



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