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**Unmanned Aircraft Systems (UAS)**

The following Coastal Launch Sites and Arctic permanent areas (see next page) are areas of UAS activity.  
The communication plan (below) represents recommended procedures for UAS Arctic Operations

Future coastal launch sites will be added via NOTAM.

**Expanding Use of Small Unmanned Aircraft Systems in the Arctic  
Implementation Plan  
FAA Modernization and Reform Act of 2012**

**Introduction**

This plan responds to the following section of the FAA Modernization and Reform Act of 2012 (the Act):

SEC. 332. INTEGRATION OF CIVIL UNMANNED AIRCRAFT SYSTEMS INTO NATIONAL AIRSPACE SYSTEM.

(d) EXPANDING USE OF UNMANNED AIRCRAFT SYSTEMS IN ARCTIC.—

(1) IN GENERAL - Not later than 180 days after the date of enactment of this Act, the Secretary shall develop a plan and initiate a process to work with relevant Federal agencies and national and international communities to designate permanent areas in the Arctic where small unmanned aircraft may operate 24 hours per day for research and commercial purposes. The plan for operations in these permanent areas shall include the development of processes to facilitate the safe operation of unmanned aircraft beyond line of sight. Such areas shall enable over-water flights from the surface to at least 2,000 feet in altitude, with ingress and egress routes from selected coastal launch sites. (2) AGREEMENTS - To implement the plan under paragraph (1), the Secretary may enter into an agreement with relevant national and international communities.

This Plan is intended to inform interested parties, operators, Federal agencies and international communities of the Federal Aviation Administration's (FAA) plan to establish permanent operational areas and corridor routes (for access to coastal launch sites) in the Arctic for the operation of small Unmanned Aircraft Systems (sUAS). These permanent areas will permit sUAS operations from the surface to at least 2,000 feet Above Ground Level (AGL) for research, commercial purposes and Search and Rescue (SAR). One of the Plan's objectives is to create a specific process to allow safe operation in the Arctic areas.

**Legislative Compliance**

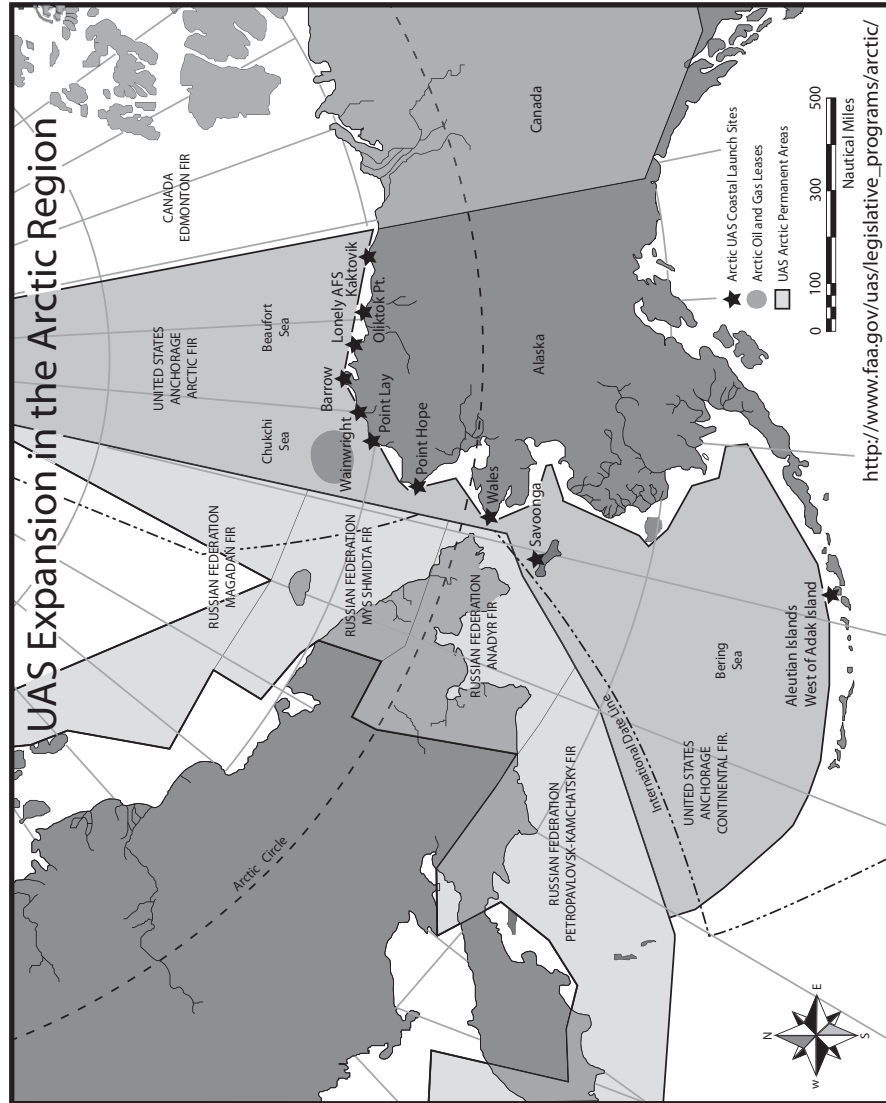
The FAA plans to establish three permanent Arctic areas to comply with the Act:

**Corridor Routes and Procedures**

The plan requires the establishment of several routes for ingress/egress from selected coastal launch sites to access the permanent Arctic areas. The routes will extend from the selected coastal launch sites, through domestic airspace to the permanent Arctic areas.

The procedures for using the permanent Arctic areas will be developed as a part of this plan. Typical procedures used for corridor routes in other areas of the NAS require operators using the corridor routes to file, activate, and close a flight plan with the appropriate aeronautical facility.

For further information: [http://www.faa.gov/uas/legislative\\_programs/arctic/](http://www.faa.gov/uas/legislative_programs/arctic/)



## UAS ARCTIC AREA OPERATIONS COMMUNICATIONS PLAN

**SATCOM TELEPHONE NUMBER: Radio Call Sign:** \_\_\_\_\_

**USCG #:** \_\_\_\_\_ **Vessel Phone:** \_\_\_\_\_ **VSAT** \_\_\_\_\_ **Iridium**

**A. 10 Days prior:** When operating within Control Area 1485L, Operator email an ALTRV request to CARF (7-AWA-CARF@FAA.GOV) with a copy to Anchorage ARTCC (ZAN) (AALZANATTMU@FAA.GOV)

**B. 7 Days prior:** UAS operator email to appropriate U.S. Government Activities (US Coast Guard, NOAA, DoD Etc.) and Commercial aircraft operators

**C. 72- 24 Hours in Advance:** Contact \_\_\_\_\_ FSS, Request a NOTAM be issued for the operation

**D. 1 Day prior (NLT 2200 hours):** Provide manned aircraft operators schedule for next day

**E. By 0830 hours on day of flight:** Manned aircraft operators will confirm their flight plan(s)

**F. 1 Hour prior:**

a. Operator file a DVFR flight plan through \_\_\_\_\_ Flight Service Station (FSS)

\_\_\_\_\_ FSS: ( ) \_\_\_\_\_ National Weather Service (907)852-6484

b. Receive Weather briefing, review NOTAMS, determine if there are any other DVFR flight plans on file for the operating area

c. Check Receiver Autonomous Integrity monitoring (RAIM) notices  
(<http://www.ntsbt.faa.gov/24HrRAIM.htm>)

d. Contact Anchorage ARTCC (ZAN) via SATCOM to confirm ALTRV is Active (907) 269-1103

**G. 10 Minutes prior to UAS Launch:** In preparation for launch, broadcast a warning announcement on Marine Common FM Ch 16 and VHF \_\_\_\_\_ MHz (CTAF) "UAS flight operations are commencing from (LAT /LONG of research vessel). Maintain a listening watch on VHF \_\_\_\_\_ (CTAF) and 135.3 MHz for any traffic

**H. During flight operations announcements:** Periodically broadcast a warning announcement on Marine Common FM Ch 16 and VHF \_\_\_\_\_ MHz (CTAF) that: "UAS operations are in effect between the surface and 2000 feet within 10 nautical miles of Latitude /Longitude"

**I. Lost Link/Lost Comms for the UAS (Emergency Comms):** PIC will comply with the lost link/lost comms procedures stipulated in the COA. Operator will immediately contact \_\_\_\_\_ and Anchorage ARTCC (ZAN) via SATCOM and report the Lost Link condition, time and the Lat/long. Immediately broadcast on Marine Common FM Ch 16, VHF \_\_\_\_\_ MHz (CTAF) and VHF 135.3 MHz that "UAS flight operations are commencing emergency return at 500 feet AGL."

**J. US Coast Guard Protocols:** Vessel will maintain continuous listening watch on Marine Common FM Ch16 and the VHF and UHF 121.5 & 243.0 guard frequencies

**UAS Operator POC:** \_\_\_\_\_, **email:** \_\_\_\_\_

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**AEROBATIC PRACTICE AREAS IN ILLINOIS****Holmes Airstrip (3IS5), Springfield, IL**

Aerobatic flight activity will be conducted within an area defined as a 1.5 NM radius around N 39°40'48.6"/W 089°36'26.8", 1800-6600' MSL, 1300-0000Z++ (0800-1900 local CDT). For further information contact Flight Service at 1-800-WX-BRIEF (992-7433).

**Litchfield Municipal Airport (3LF), Litchfield, IL**

Aerobatic practice will be conducted within 2 NM radius of Litchfield Municipal Airport (3LF), from 1,700 feet MSL to 4,200 feet MSL. The practice area is for waiver holders only. Pilots should use caution when opr within this area. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Smith Airport (LL27), Macomb, IL**

Aerobatic practice will be conducted within 2 NM radius of Smith Airport (LL27), SFC to 4,100 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Springfield IL, Abraham Lincoln Capital Airport (SPI)**

Aerobatic practice will be conducted within 1.5 NM radius of Springfield VOR SPI160010, from 2,100 feet MSL to 4,600 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

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**AEROBATIC PRACTICE AREA****Norris Field (8II2), Richmond, IN**

Aerobatic Flight Activity will be conducted within 1 (one) NM radius of the Richmond (RID) VORTAC 193R/6 DME. Flights will occur from 800' AGL to 3,500' AGL. Pilots should use caution when operating within this area. For further information, Contact Dayton APP CON at 1-937-454-7310 or freq. 134.45.

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**LASER LIGHT RESEARCH****Urbana, IL**

Laser light research will be conducted at the University of Illinois, Urbana campus at Urbana, IL, N40°10'03"/W088°09'33". CMI VORTAC 036R/9NM. Nightly from local sunset to sunrise. Laser beam will be angled directly perpendicular to the horizon and projected up to 42,000 feet. Laser light may be injurious to eyes if viewed directly vertically. Flash blindness or cockpit illumination may occur beyond this distance.

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**COMMUNICATIONS ADVISORIES****Indianapolis ARTCC****NABB INDIANA AREA****New Hope, London, Lexington Kentucky Area**

Indianapolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio capability.

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots without 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

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**UNMANNED AIRCRAFT SYSTEM (UAS)****Medina County, OH**

Unmanned Aircraft System Activity within Medina County, OH. Pilots flying within Medina County, OH should be alert for unmanned aircraft systems operating at or below 400 feet Above the Ground (AGL) inclusive.

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**MODEL ROCKET ACTIVITY****ANTHONY, KS**

Model Rocket activity will be conducted within a 5 NM radius of ANY081021, SFC to 34,500 feet AGL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**ELLINWOOD, KS**

Model Rocket activity will be conducted within a 3 NM radius of the Ellinwood Airport (1K6), with an alternate site of 2 NM Northwest of Ellinwood Airport (1K6), SFC to 10,000 feet AGL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**PITTSBURG, KS**

Model Rocket activity will be conducted within a 3 NM radius of OSW045034, SFC to 18,000 feet MSL, SR-SS. For further information, contact Flight Services at 1-800-WX-BRIEF (992-7433).

**HALLSVILLE, MO**

Model Rocket activity will be conducted within a 2 NM radius of HLV299010, SFC to 6,000 feet AGL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

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**MOORED AEROSTAT BALLOON OPERATIONS****SIOUX FALLS, SD**

Moored aerostat balloon operations will be conducted daily from SR-SS, within a 1 NM radius of N43°4203/W096°4234, approximately 8 NM north of the Sioux Falls Airport (FSD) or the FSD 035R/005 NM fix. The moored balloon will operate from the surface to at or below 1,000 feet AGL. All operations will be conducted IAW Title 14, Part 101 Code of Federal Aviation Regulations.

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**Unmanned Aircraft System (UAS)****Western Kansas**

Unmanned Aircraft System activity occurring in the Western portion of Kansas. Pilots flying in Western Kansas should be alert for unmanned aircraft systems operating from the surface to 1,000 feet Above Ground level (AGL) inclusive.

**Western Nebraska**

Unmanned Aircraft System activity occurring in the Western portion of Nebraska. Pilots flying in Western Nebraska should be alert for unmanned aircraft systems operating from the surface to 1,000 feet Above Ground level (AGL) inclusive.

**Northeast North Dakota**

Unmanned Aircraft System activity within Northeastern North Dakota. Pilots flying within Rolette, Towner, Cavalier, Pembina, Pierce, Ramsey, Benson, Eddy, Foster, Wells, Walsh, Nelson, Grand Forks, Griggs, Steele and Traill Counties should be alert for unmanned aircraft systems operating at or below 700 feet Above the Ground (AGL) inclusive.

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**LASER LIGHT DEMONSTRATION****Darien Lake Theme Park, Darien Center, New York**

Laser light demonstrations are being conducted at the Darien Lake Theme Park, Darien Center, NY. The show orientation and laser beam projection are directed to the southern half of a circle from this site. Buffalo VOR/DME 100R/12NM. (42°56'04"N/78°23'30"W). Laser light beams may be injurious to pilot's/passenger's eyes within 2,800 feet of the light source, 1,600 feet above ground level. The secondary effect of flash blindness or cockpit illumination may occur beyond these distances. The Buffalo ATCT, 716-633-0664 is the FAA coordination facility.

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**LASER LIGHT DEMONSTRATIONS****DORNEY THEME PARK, DORNEYVILLE, PENNSYLVANIA**

Laser light demonstrations are being conducted at the Dorney Theme Park, northwest of Dorneyville, PA. Show orientation and laserbeam projections directed to the southern quadrant from FJC 210D/10DME (N40°34'47"/W75°32'06"). Laser light beams may be injurious to pilot's/passenger's eyes within 2000 ft laterally of the light source, 500 ft AGL, 1100 ft AMSL. The secondary effects of flash blindness or cockpit illumination may occur beyond these distances. Allentown ATCT, 1-610-264-4539 is the FAA coordination facility.

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**MODEL AIRCRAFT ACTIVITY, HARFORD COUNTY MARYLAND**

Radio controlled model aircraft operating to 800 feet AGL vicinity of N39°37'30" W76°18'35" in Harford County, Maryland.

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**UNMANNED AIRCRAFT SYSTEMS (UAS) OPERATIONS****IN QUEEN ANNE'S COUNTY MARYLAND**

Unmanned Aircraft Systems activity within Queen Anne's County Maryland. Pilots flying within Queen Anne's County should be alert for unmanned aircraft systems operating at or below 400 feet Above the Ground (AGL) inclusive.

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**INTERSECTION DEPARTURES DURING PERIODS OF DARKNESS  
GENERAL EDWARD LAWRENCE LOGAN INTERNATIONAL AIRPORT (KBOS)  
BOSTON, MASSACHUSETTS**

Boston Logan International Airport Traffic Control Tower has been granted approval for the use of Line Up and Wait (LUAW) at a specific intersection, between sunset and sunrise. The authorization is valid only for the following intersection:

**Runway 04R at Taxiway C.**  
**Runway 22L at Taxiway C.**

Aircraft will not be allowed to "Line Up and Wait" (LUAW) when this intersection is not visible from the control tower. When the provisions of this authorization are being utilized, the associated runway will be utilized for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise, however, the aircraft cannot be instructed to LUAW prior to takeoff clearance.

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**INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS  
NEWARK LIBERTY INTERNATIONAL AIRPORT (EWR)  
NEWARK, NEW JERSEY**

Newark International Airport Traffic Control Tower has been granted a waiver to the guidelines that prohibits the control tower from taxiing an aircraft into "Line Up and Wait" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi aircraft into "Line Up and Wait" during period of darkness, at the intersections listed below.

**Runway 22R at Taxiway Whiskey**  
**Runway 22L at Taxiway Whiskey**  
**Runway 29 at Taxiway Romeo**  
**Runway 22R at Taxiway Yankee** (when Runway 29 is the arrival runway)

Aircraft shall not "Line Up and Wait" under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft cannot be taxied into "Line Up and Wait" prior to takeoff clearance.

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**CONTROLLED FIRING**  
**Fort Harrison Controlled Firing Area**  
**Helena, Montana**

Controlled firing occurs in the vicinity of the Helena, Montana VORTAC (HLN) 24 hours daily, 5'800 MSL and BELOW. The area defined by the following radial/DME coordinates HLN258008, HLN258005, HLN250008, HLN250005.

**Limestone Hills Controlled Firing Area**  
**Helena, Montana**

Controlled firing occurs in the vicinity of the Helena, Montana VORTAC (HLN) 24 hours daily, FL180 and BELOW. The area defined by the following radial/DME coordinates HLN125026, HLN127028, HLN140025, HLN125028.

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**SPECIAL NORTH ATLANTIC, CARIBBEAN AND  
PACIFIC AREA COMMUNICATIONS**

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area:	123.45 MHz
Caribbean area:	123.45 MHz
Pacific area:	123.45 MHz

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**MOUNT ST. HELENS NATIONAL VOLCANIC MONUMENT, WASHINGTON**

The U.S. Geological Survey (USGS) and the U.S. Forest Service (USFS) conduct low level flights to and from monitor station within the monument and within the crater itself. Due to this activity, the volatility of the volcano and a high volume of sightseeing flights in the area, the following procedures are recommended in the interest of flying safety.

1. VFR aircraft are encouraged to transmit an initial position report on 122.75 MHz in the blind when flying at altitudes of less than 10,000 feet MSL within 10 nautical miles of the Mount St. Helens volcano crater.
  2. VFR flight below 3000 feet AGL – strongly not recommended.
  3. VFR flight above 3000 feet AGL – fly a counterclockwise pattern, no closer than 3 miles to the volcano summit.
- VFR rules of "see and be seen" and good airmanship practices will prevail. Approval to land can only be obtained through appropriate Federal or State authority. Any significant information will be broadcast on the transcribed weather broadcasts by the Seattle and McMinville Flight Service Stations and available on the Portland and Seattle ATIS. Marginal radar coverage limits Seattle Center's ability to provide radar flight following to aircraft in orbit of the volcano.
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**DEVILS TOWER NATIONAL MONUMENT, WYOMING**

For reasons of national welfare, pilots are requested to avoid flights within 3 nautical miles of Devils Tower National Monument.

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**BIRD HAZARD OREGON AND WASHINGTON**

Heavy concentration of migratory and wintering flocks of large waterfowl from the Canadian to California borders annually November to May. Caution advised at all airports or while transiting area.

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**SIMULTANEOUS OPERATIONS**

**Boeing Field/King County International Airport**  
**Seattle, Washington**

All users: Boeing Field Airport Traffic Control Tower is authorized to conduct simultaneous same direction operations to parallel runways, between sunrise and sunset, for twin engine propeller driven aircraft or smaller.

**Spokane International Airport**  
**Spokane, Washington**

Application of visual separation for simultaneous operations. When weather conditions at the facility providing visual separation are 1500' or greater ceiling and 5 miles or more visibility, controllers at Spokane International Airport or Fairchild Air Force Base may provide visual separation between aircraft landing and departing simultaneously at Spokane International Airport and Fairchild Air Force Base.

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**UNMANNED AIRCRAFT SYSTEMS (UAS)**  
**OPERATIONS IN CANYON COUNTY, ID**

Unmanned Aircraft System activity within Canyon County ID. Pilots flying within Canyon County, ID should be alert for unmanned aircraft systems operating at or below 400 feet Above the Ground (AGL) inclusive.

**OPERATIONS IN THE CITY OF SEATTLE, WA**

Unmanned Aircraft System activity within the City of Seattle, WA. Pilots flying within the City of Seattle WA should be alert for unmanned aircraft systems operating at or below 400 feet Above the Ground (AGL) inclusive.

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**MODEL AIRCRAFT ACTIVITY****Haskell, OK (2K9)**

Model rocket activity will be conducted within a 1 NM radius of GNP092008, SFC to 9,000 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Oklahoma City, OK**

Model rocket activity will be conducted within a 1 NM radius of IRW270023, SFC to 6,400 feet MSL, SR-SS. For further information, contact Flight Services at 1-800-992-7433.

**Fort Stockton—Pecos Co (FST), TX**

Model rocket activity will be conducted within a 2.6 NM radius of FST 146/014, SFC to 20,000 MSL, SR-SS. For further information, contact San Angelo AFSS on 1-325-223-6041. Model rocket activity will be conducted within a 2 NM radius of FST 212/9, SFC to 23,100 MSL, SR-SS. For further information, contact San Angelo AFSS on 1-325-223-6041.

**Hearne, TX (LHB)**

Model rocket activity will be conducted within a 1 NM radius of the Hearne Muni Airport (LHB) or the CLL 319/018 SFC to 12,500' MSL, SR-SS. For further information, contact Flight Services at 1-800-992-7433.

**Kileen (ILE), Texas, Vicinity**

Model airplane activity conducted 1 NM radius ILE 138R/006NM, 10008 AGL and below. Intermittent launches daily. For further information, contact San Angelo AFSS on 1-325-223-6041.

**Nacogdoches, TX (OCH)**

Model Rocket activity will be conducted within a 1 NM radius of the Mangham Rgnl Arpt (OCH) 045018, SFC to 3,000 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Wills Point, TX (76F)**

Model rocket activity will be conducted within a 5 NM radius of TTT100051, SFC to 24,000 feet MSL, SR-SS. For further information, contact Flight Services at 1-800-992-7433.

**Waco Rgnl, TX (ACT)**

Model rocket activity will be conducted within a 5 NM radius of ACT 131014, SFC to 24,000 feet MSL, SR-SS. For further information, contact Flight Services at 1-800-992-7433.

**UNMANNED AIRCRAFT SYSTEM (UAS)****Arlington, TX**

Unmanned Aircraft System activity within the City of Arlington TX. Pilots flying within the City of Arlington, TX should be alert for unmanned aircraft systems operating at or below 400 feet Above the Ground (AGL) inclusive.

**Corpus Christi, TX**

Pilots flying in the vicinity of Corpus Christi, TX should be alert for unmanned aircraft systems operating at or below 400 feet above the ground (AGL) inclusive.

**Hondo, TX**

Unmanned Aircraft System (UAS) activity will be conducted within 2 NM radius of HDO 220/010, SFC to 1,700' MSL 0800-1600 LCL, Mon-Fri, through April 16, 2013. For further information, contact Fort Worth AFSS on 1-800-WX-BRIEF.

**Montgomery County, TX**

Unmanned Aircraft System activity within Montgomery County TX. Pilots flying within Montgomery County TX should be alert for unmanned aircraft systems operating at or below 400 feet Above the Ground (AGL) inclusive.

**Southern Texas, TX**

Unmanned Aircraft System (UAS) activity along the International Border in the Southern Part of Texas. Pilots flying near the International Border between El Paso, TX and Port Isabel, TX should be alert for unmanned aircraft systems operating at or below 1000' Above The Ground (AGL) inclusive.

**DALLAS-FORT WORTH, TX, DALLAS/FORT WORTH INTL AIRPORT (DFW)**  
**NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 17R, 17C, 18R, 18L, 35L, 35C, 36L and 36R are authorized, with course divergence beginning within 5 miles from the departure end of parallel runways, due to noise abatement restrictions.

**Robinsonville, Mississippi**

Laser light activity will be conducted at the Grand Casino, Robinsonville, MS, N34°52'22"/W90°17'40" MEM VOR 243R/18.3 NM, from 0000 to 0700 UTC daily. Laser light beams may be injurious to eyes within 300 feet vertically and 21,000 feet laterally. Flash blindness or cockpit illumination may occur beyond these distances.

**Vicksburg, Mississippi**

A permanent Laser Light Demonstration will be conducted at Harrah's Casino Hotel, Vicksburg, MS, (JAN VORTAC 255° Radial, 38 Nautical Miles, Latitude 32°21'N, Longitude 90°53'W), nightly from sunset until 12:00 A.M. Laser Light beam may be injurious to eyes if viewed within 1000 feet vertically and/or 3000 feet laterally of the light source. Cockpit illumination—flash blindness may occur beyond these distances.



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**NOISE ABATEMENT PROCEDURES****Covington, KY, Cincinnati/Northern Kentucky Intl Airport (CVG)**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no further than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

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**CONTROLLED FIRING AREA****Milan, Tennessee**

Controlled Firing Area 5 NM radius 2500' & blo of MKL 030/018, eff. Mon–Fri 1200–2300Z†, Sat 1530–2230Z† Sun 1230–1700Z†.

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**HELICOPTER ACTIVITY****Mosby Army Heliport, Dahlonaga, GA Area**

Occasional military helicopter activity within 15NM radius of Mosby AHP, (34°37' N/84°06' W) SFC to 3700 MSL. Activity includes: flight formations, personnel transport operations, cargo para-drop operations (below 500 AGL), medical evacuation and night vision device training. CTAF 227.2, 139.3, "Mountain Ranger 08" FM 34.10. Staff Duty Officer, Camp Frank D. Merrill, (706) 864–3367.

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**NIGHT VISION LIGHTS OUT OPERATIONS****North Carolina, South Carolina**

Military helicopter activity will be conducted for Night Vision Lights Out Training in North Carolina and South Carolina. Position lights will be extinguished or greatly reduced in intensity. The training is conducted in areas of low air traffic and not within four (4) miles of a public use airport. Training is IAW exemption to Far Part 91.

Boundaries: Beginning at Lat 35°41' N, Lon 78°30' W; to Lat 34°00' N, Lon 78°30' W; to Lat 34°00' N, Lon 80°00' W; to Lat 36°00' N, Lon 80°30' W; to point of beginning.

Times of use: Sunset to sunrise, daily.

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**HELICOPTER ACTIVITY****Camp Blanding, Starke, Florida Area**

Heavy military helicopter activity within 9 NM radius Blanding AAF, (29°57' 7.84" N; 81°58' 47.32" W). Surface to 1,500 feet. Activity includes: flight formations, personnel transport operations, sling loads, MED VAC, and night vision goggle training. Mon–Sat 1300–0500Z†, 1300–2000Z† Sun. Blanding Twr 123.0 by NOTAM, other times Range Control 123.0. (904) 533–3113/3352.

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**CUBAN FLIGHT ADVISORY****(Until Further Notice)**

The Federal Aviation Administration has been informed that an official Cuban government publication has issued a warning that Cuban Armed Forces will shoot down any aircraft that penetrates Cuban Airspace illegally and refuses to obey an order to land for inspection.

All pilots should take note: use extreme caution in the area of Cuban Airspace; adhere strictly to Cuban requirements for overflight of their territory.

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**UNMANNED AIRCRAFT SYSTEMS (UAS) OPERATIONS IN MIAMI-DADE FLORIDA**

Unmanned Aircraft System activity within Miami-Dade, Florida. Pilots flying within Miami-Dade Florida should be alert for unmanned aircraft systems operating from the surface to 300' Above Ground level (AGL) inclusive.

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**MODEL AIRCRAFT ACTIVITY—ELK GROVE, CALIFORNIA**

Model aircraft activity conducted 1200' AGL and below, 0.5 NM radius of N38°35', W121°42' (10 NM E EDU), Sunrise–Sunset. Caution advised.

**MODEL AIRCRAFT ACTIVITY—EL TORO, CALIFORNIA**

Model aircraft activity conducted 500' AGL and below, 0.5 NM radius of apch end of Rwy 25L. CLOSED MCAS El Toro, daily 1500–0400Z. For NOTAM information contact Prescott AFSS on 800–992–7433.

**MODEL AIRCRAFT ACTIVITY—WITTMANN, ARIZONA**

Model aircraft activity conducted 2000' AGL and below, 1 NM radius of the Buckeye VORTAC (BXK) R-034 at 24 DME. Daily, Sunrise–Sunset.

**UNMANNED AIRCRAFT SYSTEM (UAS)**  
**SOUTHEASTERN, AZ**

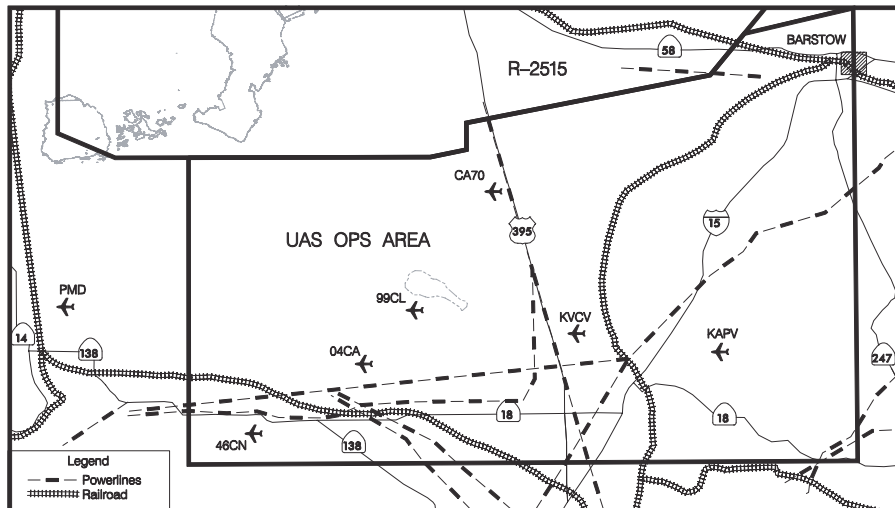
Unmanned aircraft system activity along the international border in southeastern Arizona. Pilots flying near the international border between Nogales, Arizona and the New Mexico border should be alert for unmanned aircraft systems operating from 14,000' MSL to 16,000' MSL inclusive, 0000–1500 UTC daily.

**OPERATIONS IN SOUTHERN CALIFORNIA**

Unmanned Aircraft System Activity within Ventura County, CA. Pilots flying within Ventura County, CA should be alert for unmanned aircraft systems operating at or below 400 feet Above the Ground (AGL) inclusive.

UAS operations are conducted sunrise to sunset within three (3) nautical miles of El Mirage Field Adelanto (N34°37'30", W117°36'20") and Grey Butte (N34°33'55", W117°40'50") at or below 6,000 feet MSL. From sunset to sunrise operations may be conducted within four (4) nautical miles at and below 4,000 feet AGL. Contact Joshua control on 124.55 or 363.0 for activity information and advisory service.

UAS operations may be conducted in accordance with Visual Flight Rules (VFR) accompanied by a chase aircraft below 14,000 feet MSL in an area bounded by N34°58'00" W117°00'00", N34°27'00" W117°00'00", N34°27'00" W117°55'00", N34°48'00" W117°55'00", N34°48'00" W117°35'03", N34°48'30" W117°32'03", N34°50'20" W117°32'03", N34°53'30" W117°11'53", N34°56'20" W117°09'03" thence to point of beginning.

**OPERATIONS IN EASTERN COLORADO**

Unmanned Aircraft System activity occurring in the Eastern portion of Colorado. Pilots flying in Eastern Colorado should be alert for unmanned aircraft systems operation from the surface to 1,000 feet Above Ground level (AGL) inclusive.

**OPERATIONS IN MESA COUNTY, COLORADO**

Unmanned Aircraft System activity within Mesa County, Colorado. Pilots flying within Mesa County Colorado should be alert for unmanned aircraft systems operating from the surface to 400' Above Ground level (AGL) inclusive.

**OPERATIONS IN WESTERN COLORADO**

Unmanned Aircraft System activity within Western Colorado. Pilots flying within Western Colorado should be alert for unmanned aircraft systems operating at or below 1000' Above the Ground (AGL) inclusive.

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**OPERATIONS IN NORTHERN NEVADA**

UAS operations are continuously conducted within the Fallon Approach Control Airspace and the Fallon Range Training Complex at all altitudes when the Special Use Airspace areas are active. Contact Desert Control on 126.2 MHz. for activity status.

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**OPERATIONS IN NEVADA AND UTAH**

There is continuously unmanned aircraft systems flight activity conducted within the desert and reveille military operations areas (MOAs) at all altitudes when the MOAs are active. Traffic advisories are available from the Nellis Air Traffic Control facility (Neillis Control) on 126.65.

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**DENVER TERMINAL RADAR APPROACH CONTROL****Denver, Colorado**

The Denver Terminal Radar Approach Control has been issued a waiver which enables controllers to assign speed restrictions without obtaining pilot concurrences; e.g., speeds of less than 250 knots below FL280 and speeds of less than 210 knots when the aircraft is greater than 20 flying miles from the threshold of the airport of intended landing.

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**EXTENSIVE HELICOPTER FLIGHT TRAINING IN THE VICINITY OF  
ROCKY MOUNTAIN METROPOLITAN AIRPORT (BJC), BROOMFIELD, COLORADO**

Frequent usage of Runway 11R-29L, Taxiway D, and the north end of Runway 20 by helicopter flight schools. Pilots are cautioned to listen carefully to ATC for turnoff instructions when landing on Runway 11R-29L.

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**INTENSE HELICOPTER OPERATIONS  
LOS ANGELES BASIN AREA, CALIFORNIA**

CAUTION: Intense helicopter operation below 2000'AGL. All pilots transitioning the area at or below 2000'AGL are encouraged to make regular position reports on frequency 123.025.

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**LBTO Observatory**

Laser research will be conducted at the Large Binocular Telescope Observatory, Mount Graham, AZ, 324205N/1095321W or the Cohise VORTAC 338 degree radial at 41 nautical miles until June 2015. The laser beam elevation will be a maximum of 90 degrees and a minimum of 45 degrees. This beam may be injurious to pilots/aircrews' and passengers' eyes for a distance of 5 nautical miles horizontally and unlimited vertically. Other effects such as cockpit illumination, startle/glare affect and temporary flash blindness may occur beyond these distances. Albuquerque Air Route Traffic Control Center is the FAA Coordination Facility.

**Lick Observatory**

Laser research will be conducted at the Lick Observatory, Mount Hamilton, CA, 372035N/1213814W or the San Jose VORTAC 081 degree radial at 15 nautical miles until April 2016. The laser beam elevation will be a maximum of 90 degrees and a minimum of 45 degrees. This beam may be injurious to pilots/aircrews' and passengers' eyes for a distance of 5 nautical miles horizontally and unlimited vertically. Other effects such as cockpit illumination, startle/glare affect and temporary flash blindness may occur beyond these distances. Oakland Air Route Traffic Control Center is the FAA Coordination Facility.

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**LASER LIGHT DEMONSTRATIONS****Anaheim, California**

A laser light demonstration will be conducted nightly between sundown and midnight at Disneyland, Anaheim, California (SLI VORTAC 060 radial at 7NM LAT 33°48'40"N/LON 117°55'00"W). The beam may be injurious to eyes if viewed within 300 feet vertically and 600 feet laterally of the light sources. Cockpit illumination--flash blindness may occur beyond these distances.

**Knotts Berry Farm  
Buena Park, California**

A permanent laser light demonstration is being conducted at Knotts Berry Farm, 33°49'45"N/117°59'35"W, Seal Beach Vortac SLI 022/005, 0445 to 0600 UTC DLY. Laser light beam may be injurious to pilots/passengers eyes within 800 feet vertically and 1400 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

**Long Beach, California**

A laser light demonstration will be conducted nightly between sundown and 11 PM at the Pine Avenue Theater Complex, Pine Avenue, Long Beach, California (SLI VORTAC 250 radial at 8NM LAT 33°46'12"N/LON 118°11'30"W). The beam may be injurious to eyes if viewed within 100 feet vertically and 1,900 feet laterally of the light source. Cockpit illumination--flash blindness may occur beyond these distances.

**Longmont, Colorado**

A laser light operation is conducted intermittently at the University of Colorado, Table Mountain Research Facility (BJC VORTAC 329° radial at 14 NM (LAT 40°07'40"N/LONG 105°14'37"W). The laser beam may be injurious to pilots/aircrews or passengers eyes within 1,200 feet vertically if viewed on axis. Cockpit illumination and flash blindness may occur beyond this distance. Denver TRACON, (303) 342-1590 is the FAA coordination facility.

**Palomar Observatory**

A laser light operation is conducted intermittently between sunset and sunrise at the Palomar Observatory N33-21-22/W 116-51-53, Julian VOR (JLI) 298 degree radial at 19 nautical miles. The laser beam may be injurious to eyes if viewed on axis. Cockpit illumination and flash blindness may also occur if the beam enters the cockpit. Los Angeles ARTCC, (661) 265-8205 is the FAA coordination facility.

**San Francisco, California**

A Laser Light Demonstration will be conducted nightly between 8:30 pm and 2:00 am at Pier 39, San Francisco, California (SAU VORTAC 100 radial at 12 NM LAT 37°48'40" N; LON 122°24'35" W). The beam may be injurious to Pilots/Passengers' eyes if viewed within 800 feet vertically and 800 feet laterally of the light source. Cockpit illumination--flash blindness may occur beyond these distances.

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