



Eleventh Air Force

Airspace Management Team

Joint Base Elmendorf-Richardson

Maj Scott Harris

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image © 2012 TerraMetrics

Integrity - Service - Excellence

61°07'39.51" N 151°15'19.72" W elev 369 ft

Google earth

Eye alt 386.60 mi¹



Eleventh Air Force



ADMINISTRATION

Silence cell phones and other accessories

Emergency Exits

Please ensure you have signed in



Integrity - Service - Excellence



Meeting Agenda



Topic

- **Introduction**
- **Opening Remarks**
- **Red Flag Alaska Update**
- **Airfield Status Update**
- **Airshow TFR**
- **Lights Out Brief**

Briefer

- (Maj Scott Harris)
- (Col Pat Miller)
- (Mr. Pete Bussa)
- (Multiple speakers)
- (Maj Adam Shicks)
- (TBD)

Break

- **JPARC IFR Transit** (Mr. Pete Bussa)
- **JPARC Update/MTRs** (Mr. Ed Lasselle)
- **SUAIS/GPS Jamming** (Maj Adam Shicks)
- **Open Forum** (Multiple speakers)
- **Closing Comments** (Col Pat Miller)



Alaska Civil/Military Aviation Council

Col Pat Miller



ACMAC



Welcome to the 353rd CTS Eielson AFB AK

THIS BRIEFING IS UNCLASSIFIED

Integrity - Service - Excellence



Overview



- **CY – 2015 Update**

- RF-A 15-2
- NE-15
- RF-A 15-3

- **JPARC IFR Transit**

- **Questions**





RF-A 15-2

(30 Apr – 15 May 14)



■ Eielson:

- **Fam Day (1 May 15)**
- **18 AGRS (Eielson)** 12xF-16C+
- 93 FS (Homestead) 12xF-16CM
- 13 FS (Misawa) 12xF-16CM
- 121 FS (JB Andrews) 10xF-16C
- 44 FS (Kadena) 12xF-15C
- TTF 92 ARW (Fairchild) 6xKC-135R
- **RCAF** 6xCF-18
- 210 RQS (JBER) 1xHH-60
- **527 SAS (Schriever)** **GPS Jam**
- USARAK/USA:
- ODA-2122 (NCARNG) SOF
- Home Station:
- 13 BS (Whiteman) 1xB-2
- TBD (TBD) 2-4xB-52

■ JBER:

- 90/525 FS (JBER) 12xF-22
- 962 AACS (JBER) 1xE-3
- 961 AACS (Kadena) 1xE-3
- **RAAF** 1xE-7
- **RAF** 1xE-3D
- 517 AS (JBER) 2xC-17
- TBD(AMC/NGB) 2-3xC-130
- 38/343 RS (Offutt) 1xRC-135VW
- 41 ECS (Davis-Monthan) 1xEC-130
- **RCAF** 2xC-130
- Distant Frontier:
- **44 FS** **Post Exercise**
- **ODA 2122**
- **101 Aircraft / 1,400 participants**



NE 15

(11 – 26 Jun 15)



■ Eielson:

- Fam Day (12 Jun 14)
- 18 AGRS (Eielson) 12xF-16C+
- 527 SAS (Schriever) GPS Jam
- TBD

■ JBER:

- TBD
- Distant Frontier:
- TBD
- 100+ Aircraft / ~4,000 participants



RF-A 15-3

(6 – 21 Aug 15)



■ Eielson:

- **Fam Day (7 Aug 15)**
- **18 AGRS (Eielson) 12xF-16C+**
- 36 FS (Osan) 12xF-16CM
- 25 FS (Osan) 12xA-10
- VMA-211 (MCAS Yuma) 8xAV-8B
- VAQ-209 (NAS Whidbey) 4xEA-18G
- TTF 22 ARW (McConnell) 6xKC-135R
- JASDF 6xF-15J
- JASDF 2xKC-767
- ROKAF 6xKF-16
- 148 ASOS (PA ANG) JTAC
- 210 RQS (JBER) 1xHH-60
- 179 FS (Duluth ANG) 12xF-16CM
- USARAK/USA:
- 7 SFG (ODA) SOF
- 20 SFG/ABN (ODA) SOF

■ JBER:

- 90/525 FS (JBER) 12xF-22
- 962 AACS (JBER) 1xE-3
- 961 AACS (Kadena) 1xE-3
- JASDF 1xE-767
- 517 AS (JBER) 2xC-17
- 36 AS (Yokota) 3xC-130
- RAAF 2xC-130
- JASDF 3xC-130
- ROKAF 2xC-130
- RTAF 1xC-130
- NZRAF 1xC-130
- Distant Frontier:
- TBD Pre Ex
- **100+ Aircraft / 1,700 participants**



Questions



Integrity - Service - Excellence



Airfield Operations



- **Eielson AFB**
- **Fairbanks International**
- **Ladd AAF**
- **Elmendorf AFB**
- **Bryant AAF**



Eielson AFB



Eielson AFB (EIL)
N64 39.94' W147 06.09'

Integrity - Service - Excellence



Eielson AFB Construction



PROJECT	DATES	IMPACT
Airfield Paint	TBD	Portions of airfield unusable after wing flying
Paving and Maintenance	TBD	Oscar unusable after wing flying
Golf Phase V	TBD	Golf between Delta and Charlie Closed
Joint & Crack sealing	TBD	Portions of airfield unusable after wing flying
TACAN Modernization	Expected FY15	TBD



Eielson AFB Holiday Closures



CLOSED	OPEN
27 – 30 Nov 14	0700L on 1 Dec 14
25 – 28 Dec 14	0700L on 29 Dec 14
1 – 4 Jan 15	0700L on 5 Jan 15
14 – 16 Feb 15	0700L on 17 Feb 15
22 – 25 May 15	0700L on 26 May 15
3 – 6 July 15	0700L on 7 July 15
4 – 7 Sep 15	0700L on 8 Sep 15
10 -12 Oct 15	0700L on 13 Oct 15
11 – 12 Nov 15	0700L on 13 Nov 15
26 – 29 Nov 15	0700L on 30 Nov 15
25 – 28 Dec 15	0700L on 29 Dec 15
1 – 3 Jan 16	0700L on 4 Jan 16



Eielson AFB

Exercise Schedule



EXERCISE	INCLUSIVE DATES
RED FLAG – Alaska 15-2	30 April – 15 May
Northern Edge	11 Jun – 26 Jun
RED FLAG – Alaska 15-3	6 Aug – 21 Aug



Eielson AFB MAGVAR



Key Points:

- MAGVAR Scheduled – 08 Jan 2015
- Eielson Airfield and TACAN MAGVAR change from 23 East to 19 East
- Expect to see all radials change by a minimum of 4 degrees
- Eielson runway designation of 14/32 will not change
- You may have local data, not tracked by PACAF/TERPS that may need updating

PACAF/TERPS Timeline:

- 30-Oct-14: Deadline to get all Flight check reports and procedure packages to NGA for DoD publication in the 8-Jan-2015 FLIP cycle.



Eielson AFB

RNAV



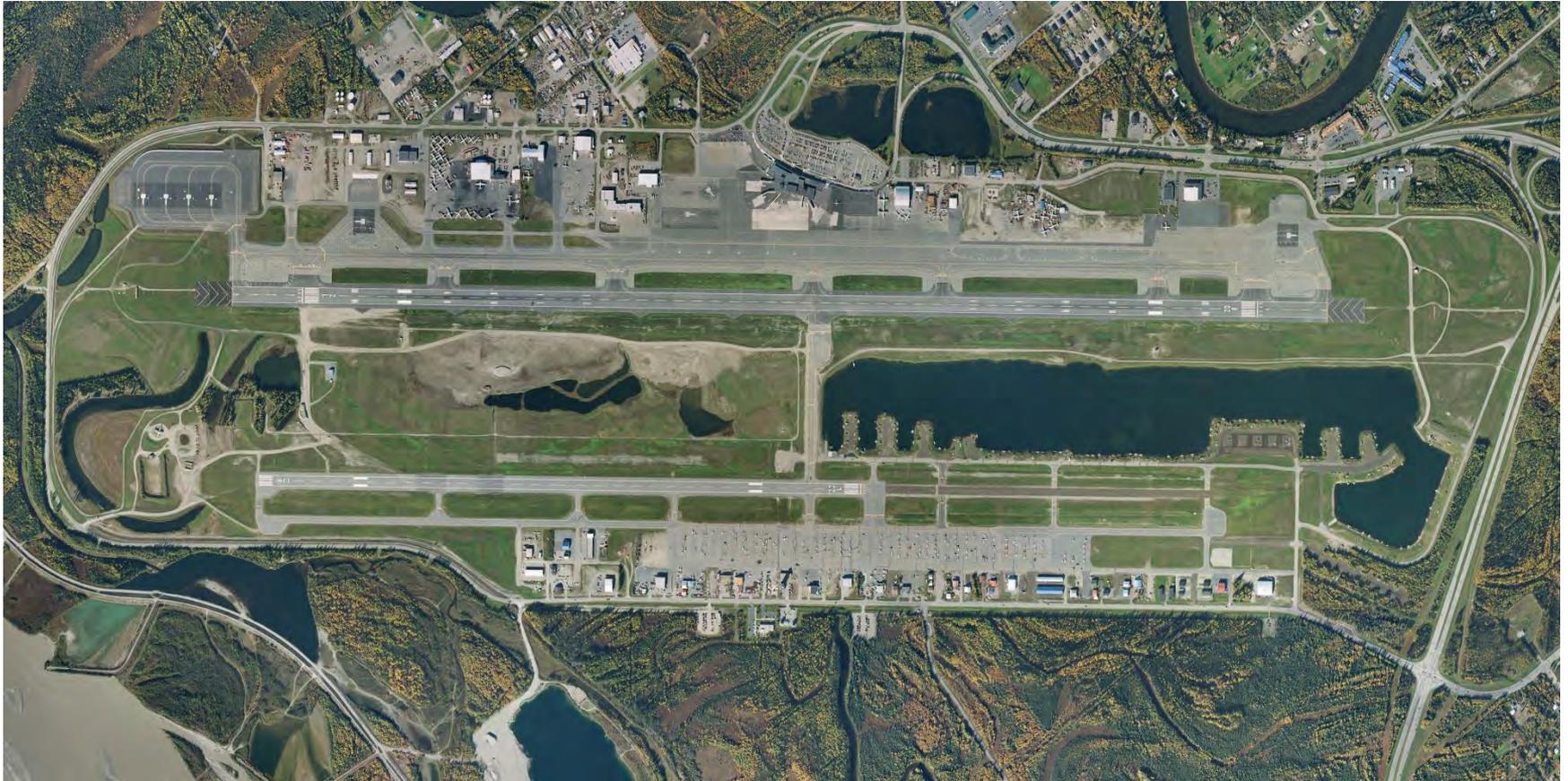
Key Points:

- Procedures published yet not authorized until Flight Check is performed
- Flight Check TBD



Fairbanks International Airport

AeroNexus®



Integrity - Service - Excellence

Short-Term

CONSTRUCTION PROJECTS / NAVAIDS	CONSTRUCTION PERIOD	EFFECTS/LIMFACs/ TEMPORARY OPS
Mag Var Change	January 8, 2015	None expected

Long-Term

CONSTRUCTION PROJECTS / NAVAIDS	CONSTRUCTION PERIOD	EFFECTS/LIMFACs/ TEMPORARY OPS
ARFF Remodel	2013-2014-2015	None



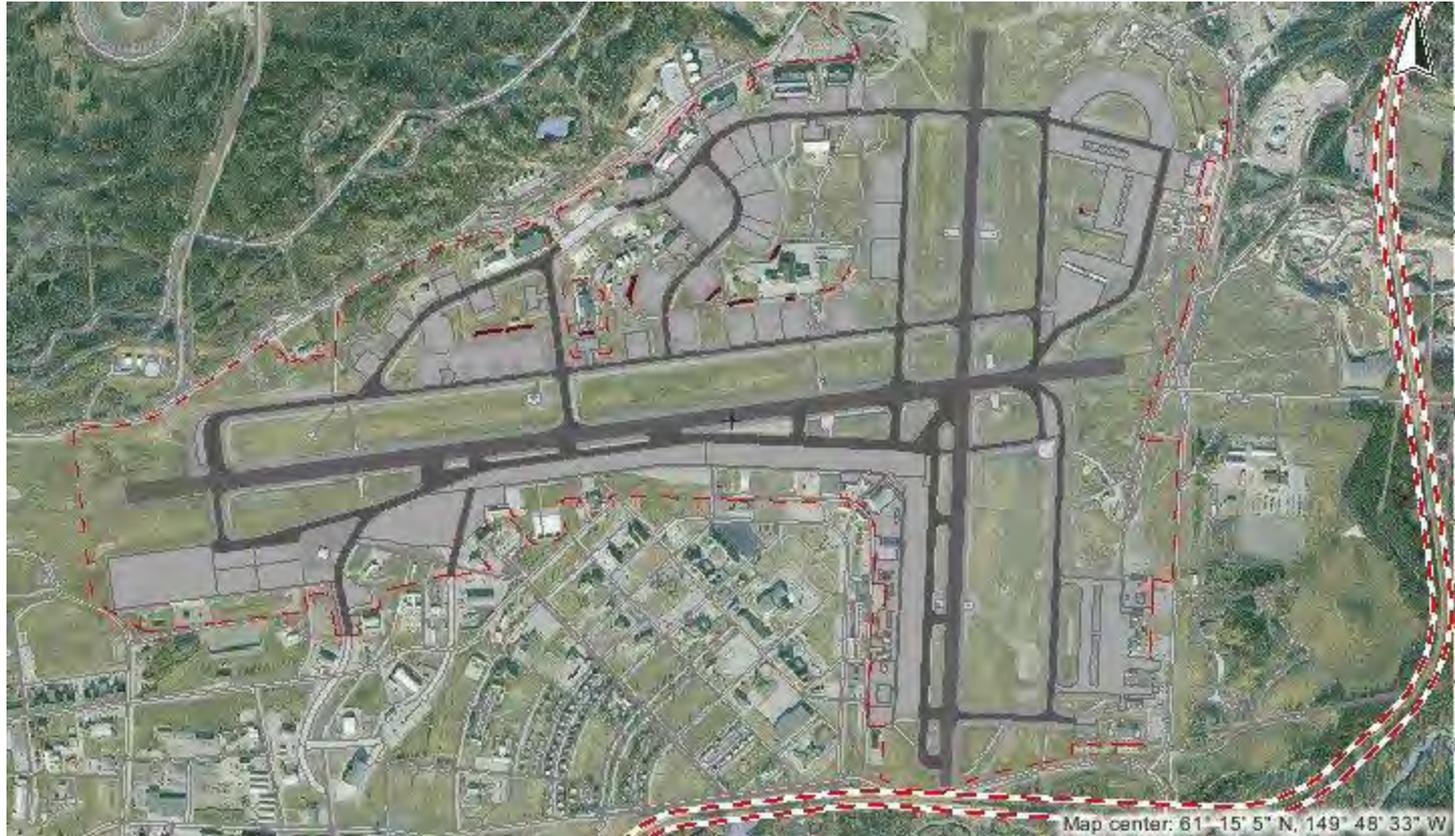
Ladd Army Airfield



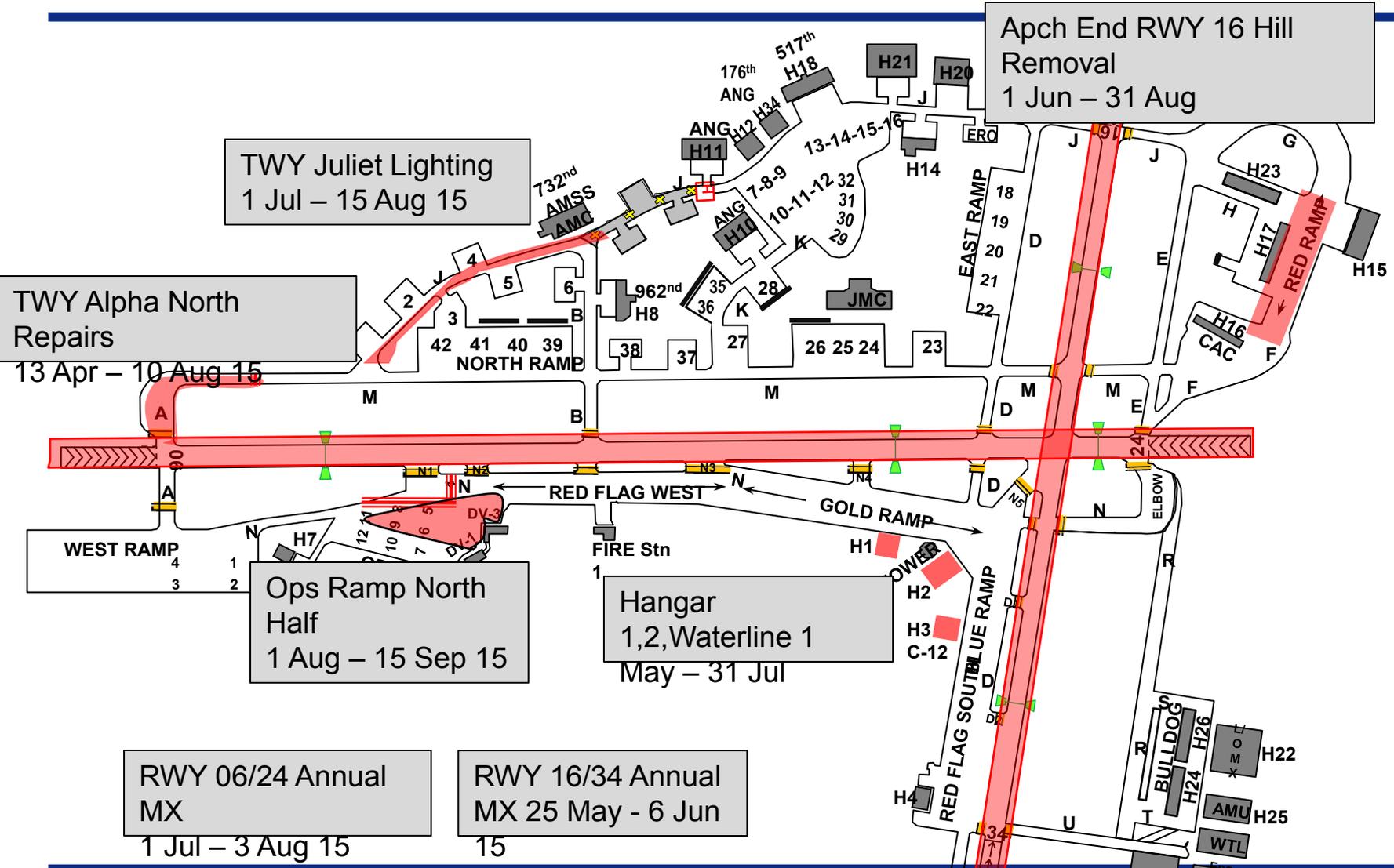
Integrity - Service - Excellence



Elmendorf AFB



2015 Proposed Construction





Bryant Army Airfield



Integrity - Service - Excellence



Bryant Army Airfield



- **Traffic Pattern**

Open to civilian traffic with coordination – However,
No touchdown authorized

- **Airfield Construction**

Runway resurfacing scheduled for summer 2015
(April through July)



611 AOC / Airspace and Range Office



Arctic Thunder Open House TFR

Maj Adam Shicks
611 AOC/AFREP



Arctic Thunder TFR



- **Review of the TFR**
- **TFR Challenges**
- **Lessons**
- **ATOH TFR for 2016?**

- Arctic Thunder Open House is a major bi-annual community event involving US Thunderbirds as well as other military and civilian aerial shows.

- Proximity of Elmendorf, Merrill, Bryant, and Anchorage airports impact mitigated with a TFR that allowed normal operations at ANC and allow restricted operations at MRI.



Review of ATOH TFR



Scheduled dates/times:

July 24 (Thursday)

1250-1350L TFR **5 NM**

July 25 (Friday)

1040-1225L TFR 2.5 NM

1225-1255L TFR **5 NM**

1255-1315L TFR 2.5 NM

1315-1330L TFR **5 NM**

1330-1415L TFR 2.5 NM

1415-1440L TFR **5 NM**

1440-1515L TFR 2.5 NM

1515-1630L TFR **5 NM**

July 26 (Saturday)

1040-1105L TFR 2.5 NM

1105-1135L TFR **5 NM**

1135-1240L TFR 2.5 NM

1240-1310L TFR **5 NM**

1310-1410L TFR 2.5 NM

1410-1630L TFR **5 NM**

1040-1105L TFR 2.5 NM

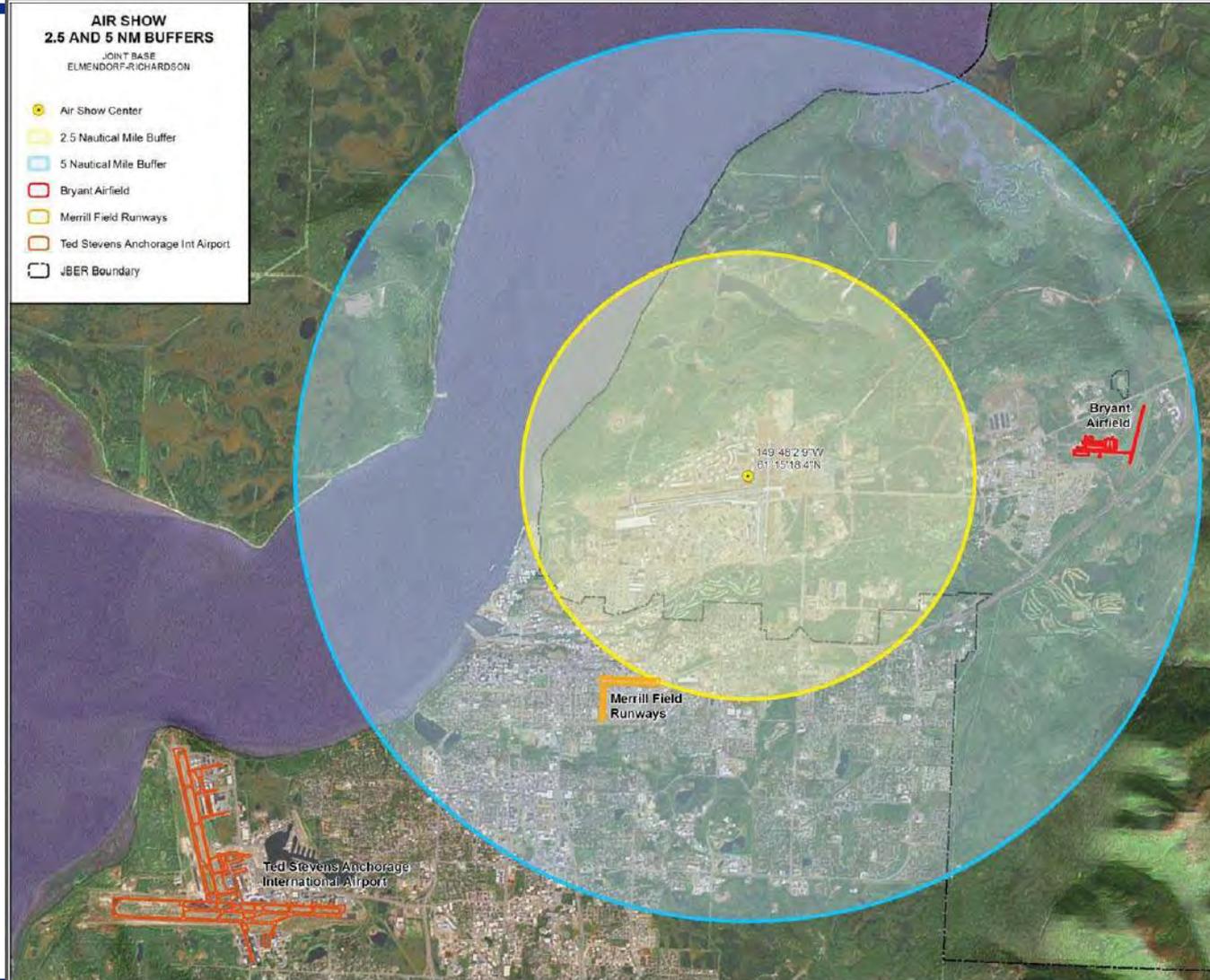
1105-1135L TFR **5 NM**

1135-1240L TFR 2.5 NM

1240-1310L TFR **5 NM**

1310-1410L TFR 2.5 NM

1410-1630L TFR **5 NM**

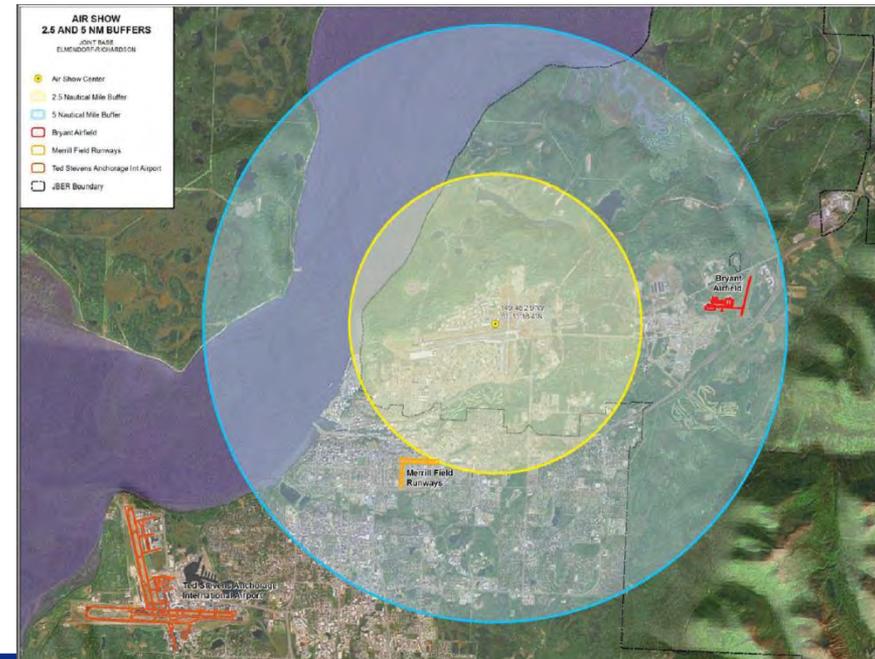




Review of ATOH TFR



- In an attempt to minimize the impact on local civil & commercial flying an ‘accordion TFR’ tailored to expand and contract with scheduled flying was created
- TFR NOTAM issued & briefed daily
- SFC – 15,000’ MSL





TFR Challenges



- **Two-tiered TFR airspace gave no room for changes or airshow performance slip**
- **TFR floor beyond 2.5NM and 1,000'AGL between Elmendorf and MRI barely used**
- **2.5NM TFR restricts North & West MRI ops**
- **Late change TFR times are difficult to approve**
- **TFR and airshow waiver authority are separate FAA entities & processes**





ATOH TFR Lessons



- **Provision flexibility into the TFR schedule via local FAA coordination & not TFR NOTAM times**
- **Look at building a floor over Merrill beyond 2.5NM allowing VFR traffic to fly under 15NM TFR**
- **Encourage civil & commercial operations to capture economic impact of limiting flight ops**



ATOH 2016



**2016 Arctic Thunder Open House TFR planning
has begun!**

Questions?



Military Lights Out Operations



90th FS

Integrity - Service - Excellence



Overview



Regulations

Letter of Agreement (LAO)

Conditions and Limitations

Requirements

Airspace Overview

Questions



Lights Out Regulations



- **FAA exemption from § 91.209(a)(1) and (b) of Title 14, Code of Federal Regulations (14 CFR) allows USAF and the aircrew from other participating services, when conducting approved joint air operations, to conduct night vision goggle (NVG) lights-out training in certain military operations areas (MOA).**

- **AFI11-202V3 PACAFSUP**
 - **5.20.1.1. (Added-PACAF) Aircrews operating in the U.S. National Airspace System (NAS) are authorized to conduct reduced, covert, and lights-out operations in Restricted and Warning areas IAW MDS-Specific and AFI 11-214 guidance, as supplemented. Operations that fall outside of this guidance may also be authorized under approved USAF waivers and FAR exemptions. NAF/AOG's will coordinate reduced/covert lighting procedures with local ATC organizations and publish them in appropriate Letters of Agreement/MOUs or NAF/CC policy (forward a copy to HQ PACAF/A3T).**

- **Must Have Letter of Agreement (LOA) Regulation that Drives Lights-Out Operations**



Letter of Agreement (LOA)



- **Air Force Lights-Out Operations LOA**
 - **Applies to all personnel and aircraft assigned to or hosted by the 3OG, 354OG, and 611AOC participating in lights-out operations**
 - **E-3, Regional Air Operations Center (RAOC), Baron Control or Panther Control will be utilized as Radar Monitoring Agency (RMA).**

- **RMA will**
 - **Establish minimum altitude**
 - **Continuous radar coverage and radio communication**
 - **Terminate when**
 - **Nonparticipating aircraft in close proximity**
 - **Spill-out occurs**
 - **Radar contact is lost**
 - **Loss of communication**

- **Aircrews Must**
 - **Squawk ZAN assigned crews**
 - **Inform ZAN when conducting lights-out operations**
 - **Notify RMA when wingman experiences a radio failure and lights-out operations are terminated**



Conditions & Limitations



- **USAF must establish a procedure to provide informational briefings to local flying organizations, businesses, and other civilian users w/in 100NM of MOA Airspace**
- **Limited to NVG flight training in specific MOAs**
- **Must be continuously monitored by military personnel to detect all nonparticipating aircraft**
- **Military personnel will immediately advise all participants when a nonparticipating aircraft has entered the active volume of operational airspace**



Requirements



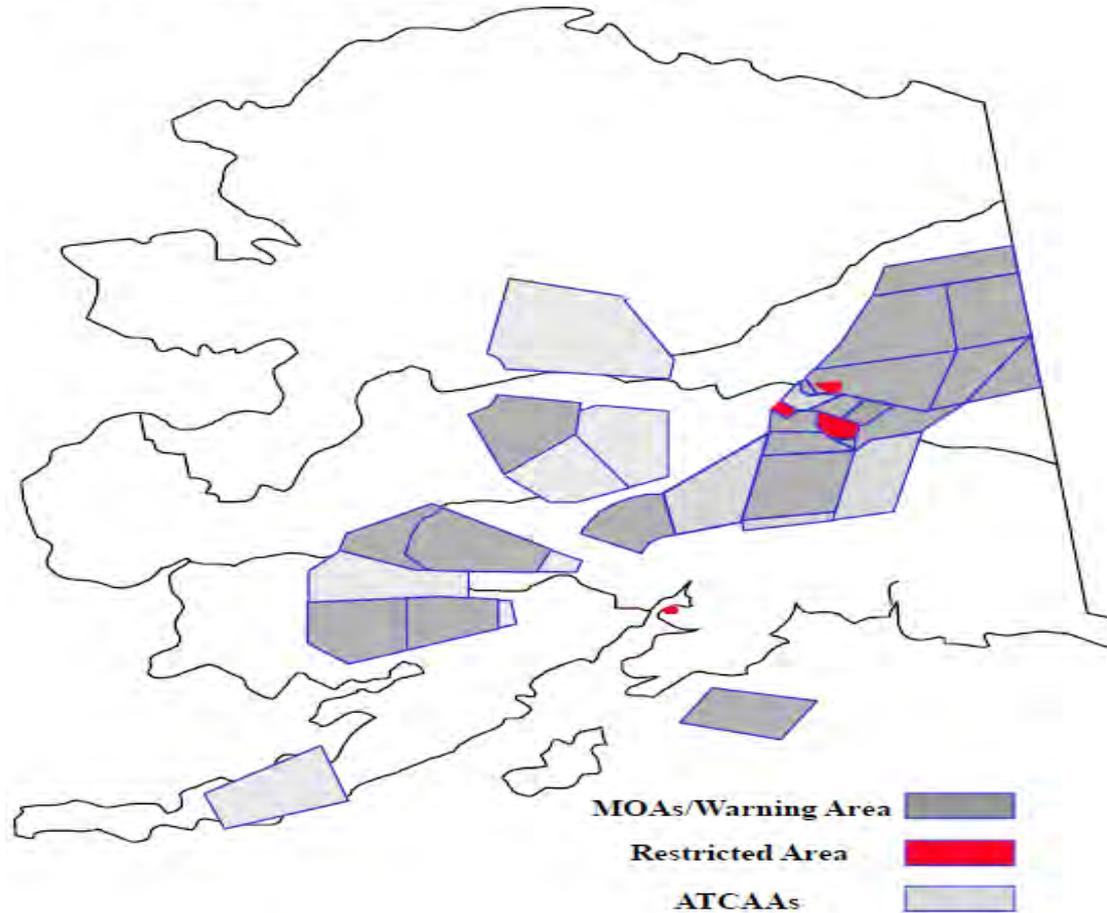
- **Lights out operations identified by Notice to Airmen (NOTAM) 48 hrs before begin**
- **Coordinated w/ the appropriate FAA air traffic control (ATC) facility**
- **Capability of being monitored for nonparticipating traffic**



Airspace Overview



ALASKA RANGE OVERVIEW:





Questions



Integrity - Service - Excellence



ALASKA CIVIL MILITARY AVIATION COUNCIL



BREAK!!!

Integrity - Service - Excellence



JPARC IFR Transit



**Welcome to the 353rd CTS
Eielson AFB AK**

THIS BRIEFING IS UNCLASSIFIED

Integrity - Service - Excellence



Overview



- Process
- Notes
- Questions





JPARC IFR Transit



-
- **Process to Coordinate IFR Flight Thru Active JPARC North Airspace:**
 1. **Call Eielson Range Control (ERC) at (907) 377-3125 NLT 1-Hour prior to Takeoff**
 2. **Pass Name, Tail Number and Request to Include:**
 - **Time**
 - **Altitude**
 - **Point of Origin**
 - **Destination**



JPARC IFR Transit



■ Notes:

- **Workload Permitting Basis Only**
- **ERC CAN Coordinate with Military Users and Anchorage Center**
- **ERC CAN NOT Issue an IFR Clearance**
- **Coordination WILL NOT Guarantee IFR Clearance**
- **Coordination IS NOT Available During Any Major Flying Exercise (i.e. RED FLAG-Alaska, NORTHERN EDGE, etc.)**



Questions



Integrity - Service - Excellence



JPARC Update (AF)

Military Training Routes 101

Mr. Ed Lasselle



Military Training Routes



- **What is an MTR?**
- **Types of MTRs**
- **Anatomy of MTRs**
- **MTR information sources**



What Are MTRs?



- **Airspace w/ FAA speed exemption for military <10K'**
 - **High Speed (>250 KTS), Low altitude (floor of 100' AGL)**
- **Purpose: Learn/practice skills required for terrain following and terrain masking to minimize visual and radar detection by enemy forces**
- **Typical profile:**
 - **C-17: 310 KGS, 300-1000' AGL, usually single-ship**
 - **Fighter: 450-500 KGS, 500-1000' AGL, 2 or 4 ship, 2-20nm**
 - **Typically flown VMC, but may be flown IMC using terrain following radar**
 - **In poor weather, may be flown "top of block"**



MTR Types



- **IR – IFR Military Training Routes**
 - IFR Flight Plan
 - Weather 1500'/3 sm ** BUT- may be IMC**
- **VR – VFR Military Training Routes**
 - VFR Flight Plan
 - Weather 3000'/5 sm
- **SR – Slow Speed Low Altitude Training Routes**
 - Speed below 250 Kts
 - Not published on Sectionals, only in AP/1B
 - AK has some, ANC area, Rarely flown



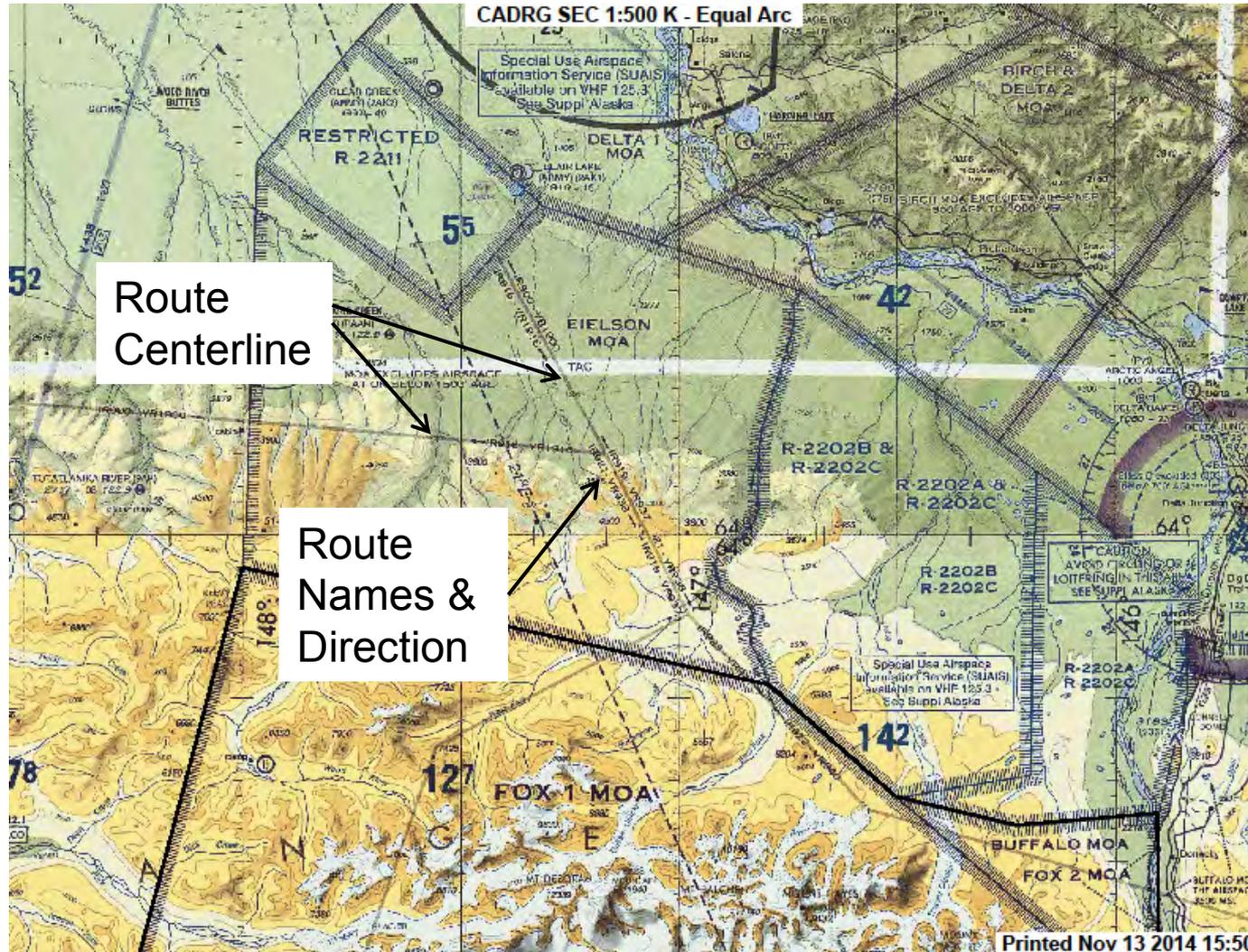
Anatomy of MTRs



- MTRs are “tubes” of airspace: horizontal & vertical parts
- MTRs identified on VFR Sectionals and Low Altitude IFR Enroute Charts as thin gray line
 - Gray line is centerline of primary route
 - AK routes typically +/-5 nm from centerline wide (10nm)
- Each MTR groundtrack has 4 names
 - IR-9XX in each direction
 - VR-9XX in each direction



MTRs





Anatomy of MTRs (cont.)



- **Altitude block: 100' AGL to IFR MEA**
- **IFR MEA set for each leg of MTR**
 - **IR935 leg MEA varies from 6,800' to 16,200'**
- **Most likely place to find aircraft on MTR:**
 - **Below 1000' AGL, or**
 - **IFR MEA for route segment**
- **VR routes with 4-number identifier have max altitude of 1,500' AGL (i.e. VR1905)**



MTRs - Misc



- **Special Use Airspace (MOAs/Restricted Areas) are NOT required to be active to fly MTR**
- **MTRs in AK can be flown:**
 - **0700-2200L**
 - **seven days/week**



MTR info sources



- Supplement Alaska – state overview map
 - Sectionals, Low IFR charts – individual routes & names
 - AP/1B – source document for all MTRs (DoD publication)
 - FSS – must ask specifically for active MTRs along route of flight
 - SUAIS (Special Use Airspace Information Service)
 - Can advise of traffic on MTR and proximity to you
 - After-hours recording will list MTRs scheduled to be flown while Eielson Range Control is closed
 - ATC Controllers (ANC Center, FAI Approach)
 - FAA Special Use Airspace Website –scheduled airspace
 - sua.faa.gov
-



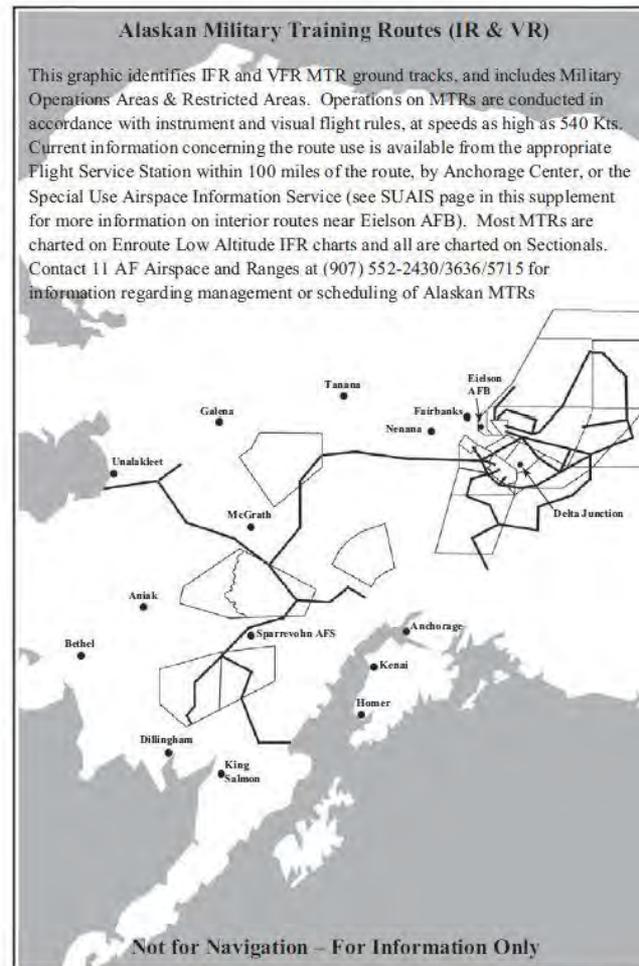
Military Training Routes



454

ASSOCIATED DATA

Page 454 from
Supplement
Alaska





SUA Website



http://sua.faa.gov/sua/siteFrame.app

Procedures-Agreements Web Slice Gallery

se Airspace & Air Traffic Control Assign...

Disclaimer Release Notes FAA Home Pilot Web TFR Auto-Refresh

Federal Aviation Administration

View FAA Order JO 7400.8 Reset ?

Welcome to the enhanced SUA Web site. This site offers improved design and enhanced functionality as documented in the Release Notes, which are accessible via a link at the top of the Web site.

Text List Graphic Map

Print Map Map as of: Nov 14, 2014 00:54 (Z)

Custom Zoom GU HI AK US PR CB

Menus Centers States Map Layers Airports

500 km 200 nmi

Active < 1hour 1h - 2h 2h - 4h 4h - 8h 8h - 24h Not Scheduled

Airport Waypoint Mapped Airport City FIR Boundary Center Boundary

Select AK button

Select Map Layers



Federal Aviation Administration

Disclaimer Release Notes FAA Home Pilot Web TFR Auto-Refresh

View FAA Order JO 7400.8 Reset ?

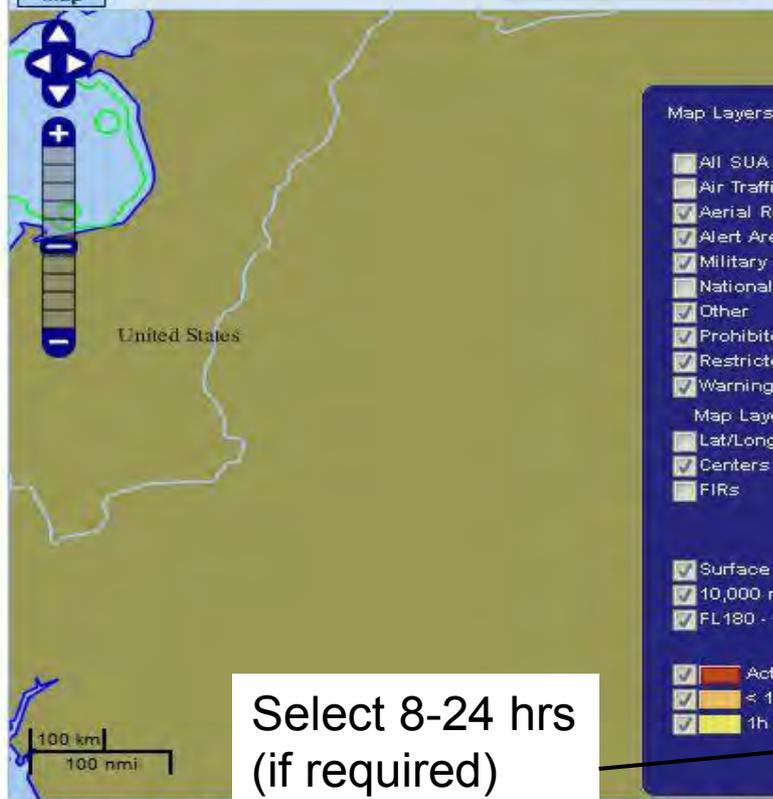
Welcome to the enhanced SUA Web site. This site offers improved design and enhanced functionality as documented in the Release Notes, which are accessible via a link at the top of the Web site.

Text List

Graphic Map



Map as of: Nov 14, 2014 01:01 (Z)



Select IR & VR routes

Map Layers

Airspace Types (use checkboxes to show or hide Airspace Types)

- All SUA
- Air Traffic Control Assigned Airspace
- Aerial Refueling Route
- Alert Area
- Military Operations Area
- National Security Area
- Other
- Prohibited Area
- Restricted Area
- Warning Area

Map Layer Types (use checkboxes to show or hide Map Layer Types. * Layer visible at or above listed zoom level)

- Lat/Long Grid
- Centers
- FIRs

Altitude Types (use checkboxes to show or hide Altitude Types)

- Surface - 10,000 msl
- 10,000 msl - 17,999 msl
- FL180 - < FL290
- FL290 - < FL350
- FL350 - FL999

Activation Types (use checkboxes to show or hide Activation Types)

- Active
- < 1 hour
- 1h - 2h
- 2h - 4h
- 4h - 8h
- 8h - 24h
- Not Scheduled

Airspace Types (use checkboxes to show or hide Airspace Types)

- All MTR
- IFR Training Route
- Slow Speed Training Route
- VFR Training Route

Map Layers

- All TFR (Future)
- Space Flight CFR 91.143
- Events CFR 91.145
- Hazards CFR 91.137a1,a2,a3
- Hazards in Hawaii CFR 91.138
- Security Areas CFR 99.7
- Emergency Rules CFR 91.139
- High Pressure CFR 91.144
- VIP Movement CFR 91.141

Map Layers

- VFR Sectionals (3) *
- IFR Low Sectionals (6) *
- IFR High Sectionals (6) *
- Base Map Only

Update Map

Select 8-24 hrs (if required)

Select Update Map



Federal Aviation Administration

Disclaimer Release Notes FAA Home Pilot Web TFR Auto-Refresh

View FAA Order JO 7400.8 Reset ?

Welcome to the enhanced SUA Web site. This site offers improved design and enhanced functionality as documented in the Release Notes, which are accessible via a link at the top of the Web site.

Text List

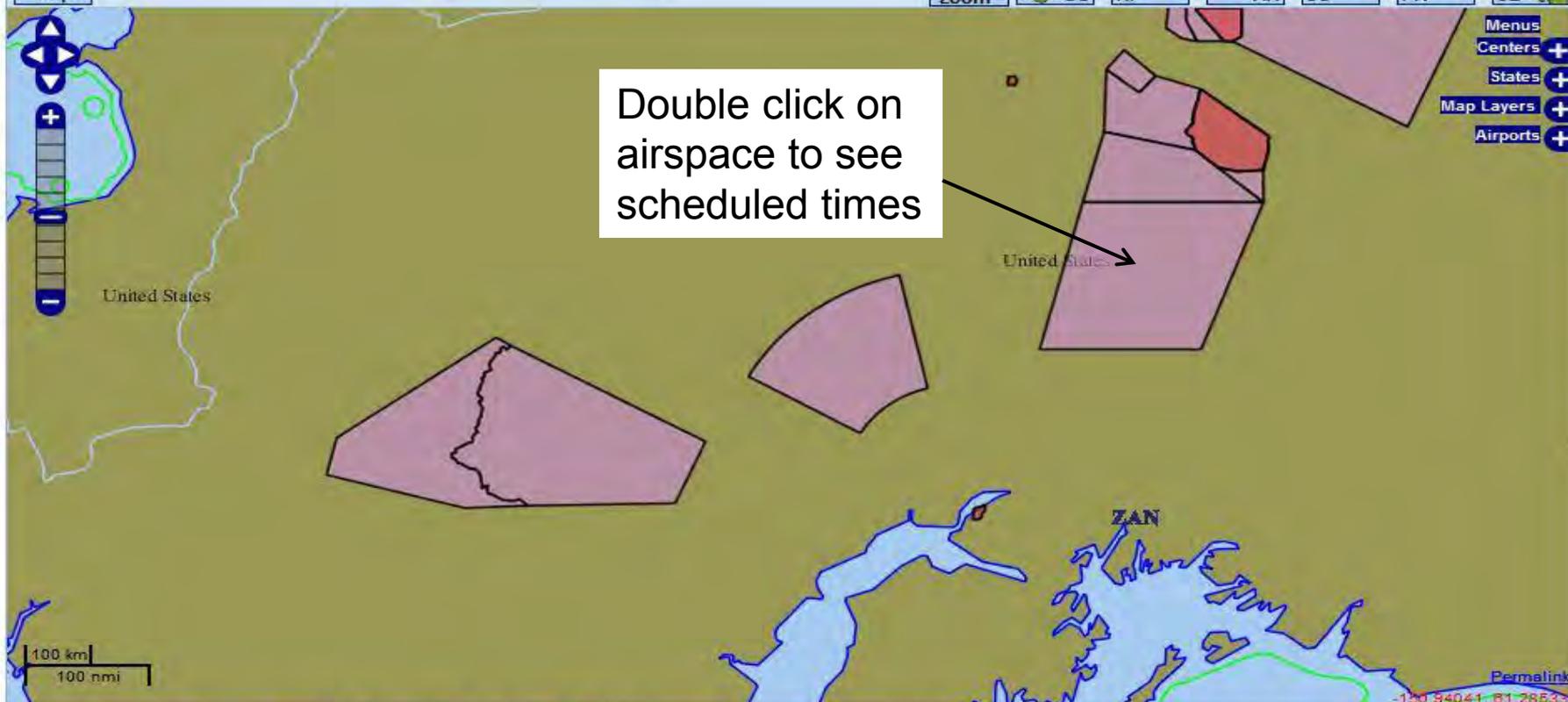
Graphic Map



Map as of: Nov 14, 2014 01:07 (Z)



- Menus
- Centers +
- States +
- Map Layers +
- Airports +



Double click on airspace to see scheduled times

100 km
100 nmi

- Active
- < 1hour
- 1h - 2h
- 2h - 4h
- 4h - 8h
- 8h - 24h
- Not Scheduled
- Airport
- Waypoint
- Mapped Airport
- City
- FIR Boundary
- Center Boundary

Permalink
-150.94041, 61.29535



Federal Aviation Administration

Disclaimer Release Notes FAA Home Pilot Web TFR Auto-Refresh

View FAA Order JO 7400.8 Reset ?

Welcome to the enhanced SUA Web site. This site offers improved design and enhanced functionality as documented in the Release Notes, which are accessible via a link at the top of the Web site.

Text List

Graphic Map



Map as of: Nov 14, 2014 22:24 (Z)

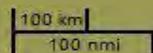


United States

United States

- Menus
- Centers +
- States +
- Map Layers +
- Airports +

MTR depiction



Permalink

-151 01556, 52 47609

- Active
- < 1hour
- 1h - 2h
- 2h - 4h
- 4h - 8h
- 8h - 24h
- Not Scheduled
- Airport
- Waypoint
- Mapped Airport
- City
- FIR Boundary
- Center Boundary



Military Training Routes



- What is an MTR?
- Types of MTRs
- Anatomy of MTRs
- MTR information sources

Above all;

LOOK OUTSIDE – ALL DIRECTIONS!!



611 AOC / Airspace and Range Office



Special Use Air Space Information Service (SUAIS) GPS Jamming

Maj Adam Shicks
611 AOC/AFREP

ALASKA CIVIL MILITARY AVIATION COUNCIL



Integrity - Service - Excellence

OPEN FORUM



ALASKA CIVIL MILITARY AVIATION COUNCIL



CLOSING COMMENTS

Col Pat Miller



Next ACMAC

**Tentative: Tues, 21 April 2015
1000-1200**

**Inputs to:
alaskamilitaryairspace@us.af.mil**