# FAA Anchorage ARTCC

Federal Aviation Administration

**Presented to:** Cross Polar Working Group / 20

**By:** Steve Kessler,
Support Manager for Airspace and Procedures,
Anchorage ARTCC

**Date:** October 26 - 29, 2015

# Anchorage ARTCC (ZAN) Update

- Anchorage ARTCC
- Sector “64”
- New Magadan FIR Entry Fixes
- Oceanic Performance
- Space Launch Activities
- UAS Operations
- Large Scale Military Exercises
- Traffic Count

# Anchorage ARTCC (ZAN) Update

## Anchorage ARTCC Website

http://www.faa.gov/about/office_org/headquarters_offices/ato/service_units/air_traffic_services/artcc/anchorage/

# Anchorage ARTCC (ZAN) Update

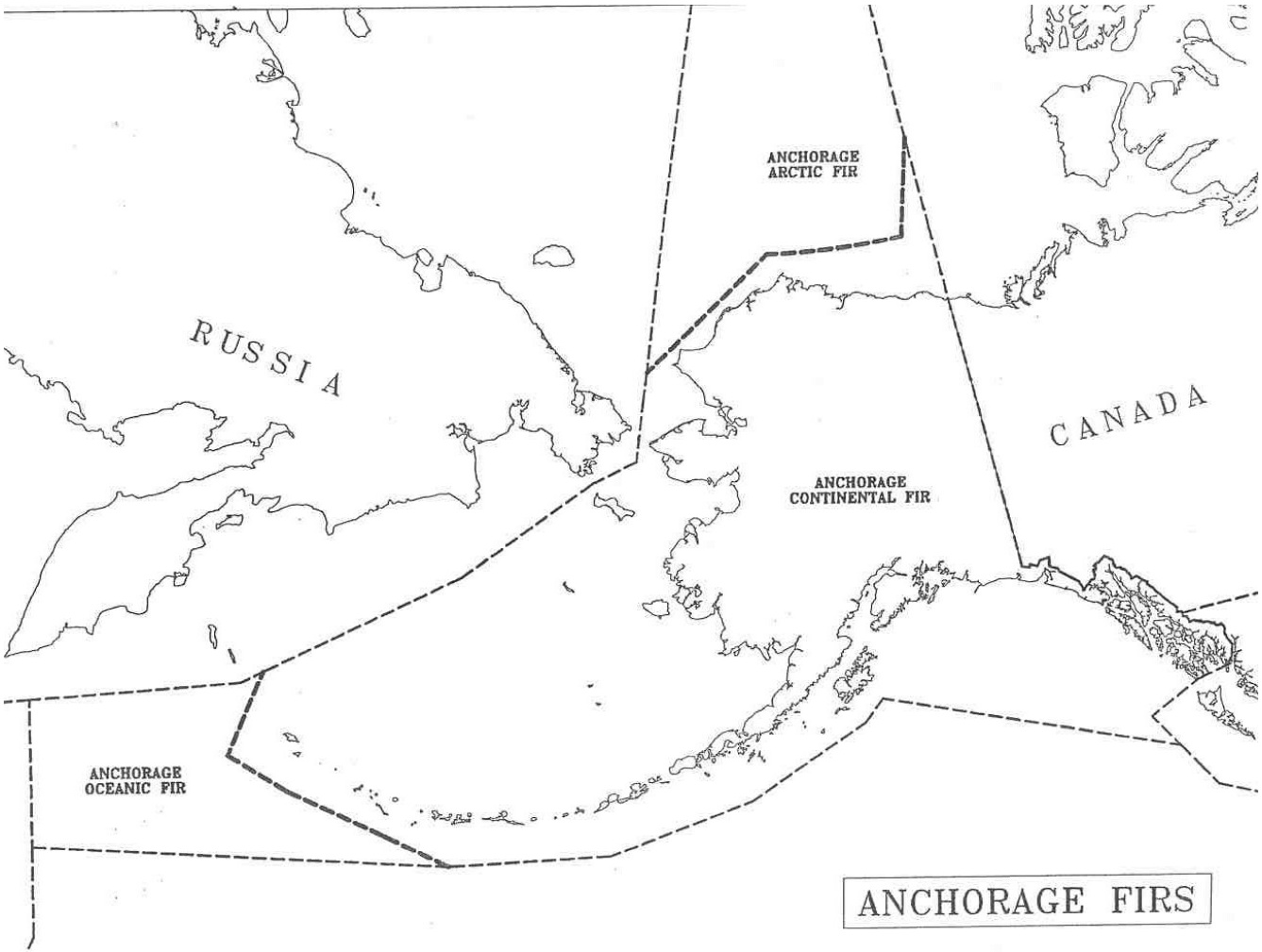
## Air Traffic Facility Personnel

- 146 Employees total
- 64 Controller Work Force
- 30 Trainees
- 19 Front Line Managers (include STMC)
- 3 Operations Managers
- 4 Support Managers
- 9 Support Staff
- 4 Traffic Management Coordinators
- 9 Flight Data Unit
- 4 CWSU Weather Unit

# Anchorage ARTCC (ZAN) Update

## Three Flight Information Regions (FIR)

- **Anchorage Arctic FIR**
- **Anchorage Continental FIR**
- **Anchorage Oceanic FIR**



# Anchorage ARTCC (ZAN) Update

**Anchorage ARTCC**
**Flight Information Regions**

- **Oceanic** 229,067 Miles$^2$ (593,280.8 Km$^2$)
- **Continental** 1,647,105 Miles$^2$ (4,265,982 Km$^2$)
- **Arctic** 551,971 Miles$^2$ (1,429,598 Km$^2$)
- **Total** 2,427,971 Miles$^2$ (6,288,416 Km$^2$)

# Anchorage ARTCC (ZAN) Update

## Anchorage ARTCC

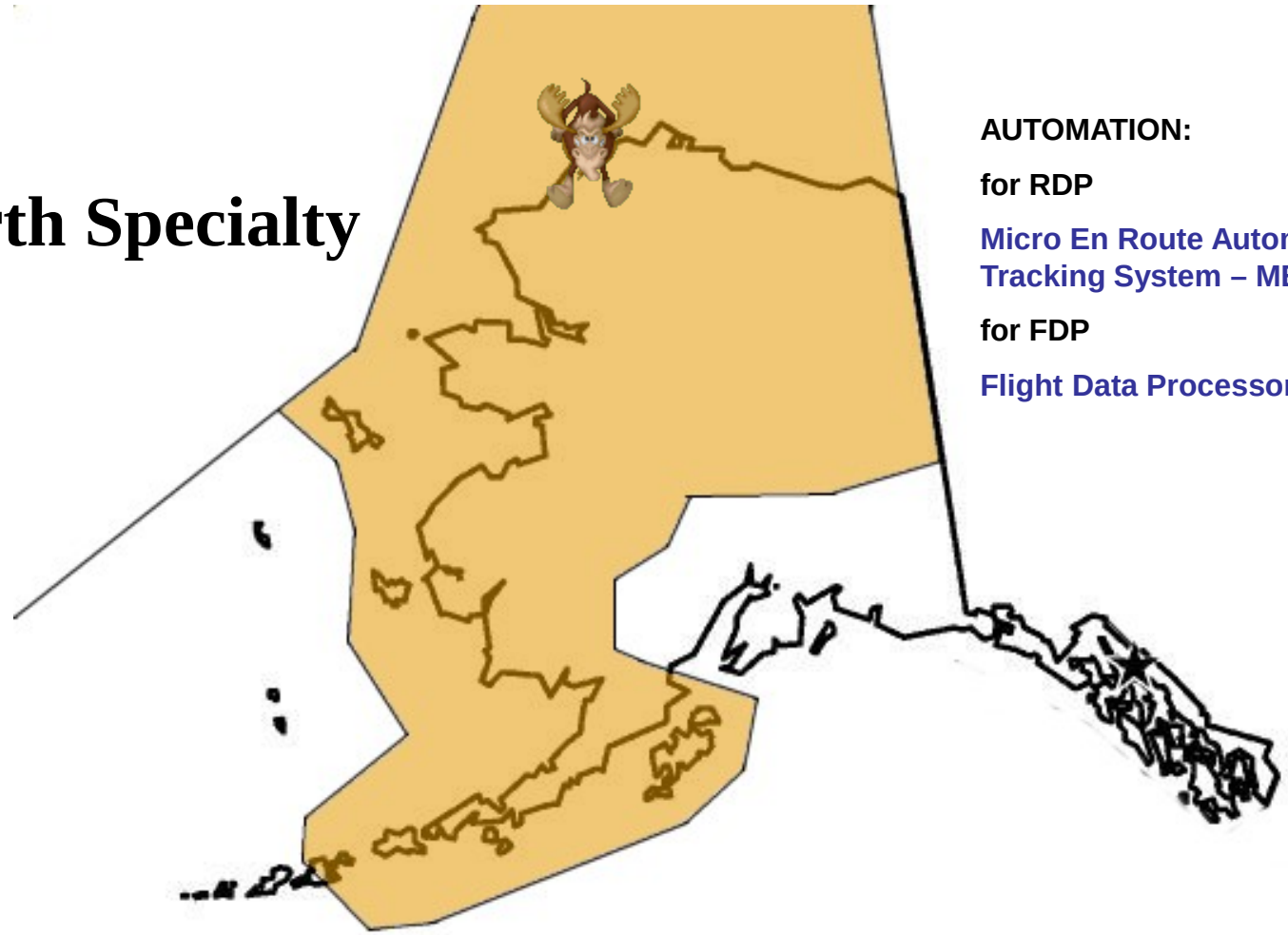
- **Airspace and Sector Structure**

Three Areas of Specialization

* North
* South
* High

# Anchorage ARTCC (ZAN) Update

**North Specialty**



**AUTOMATION:**

**for RDP**

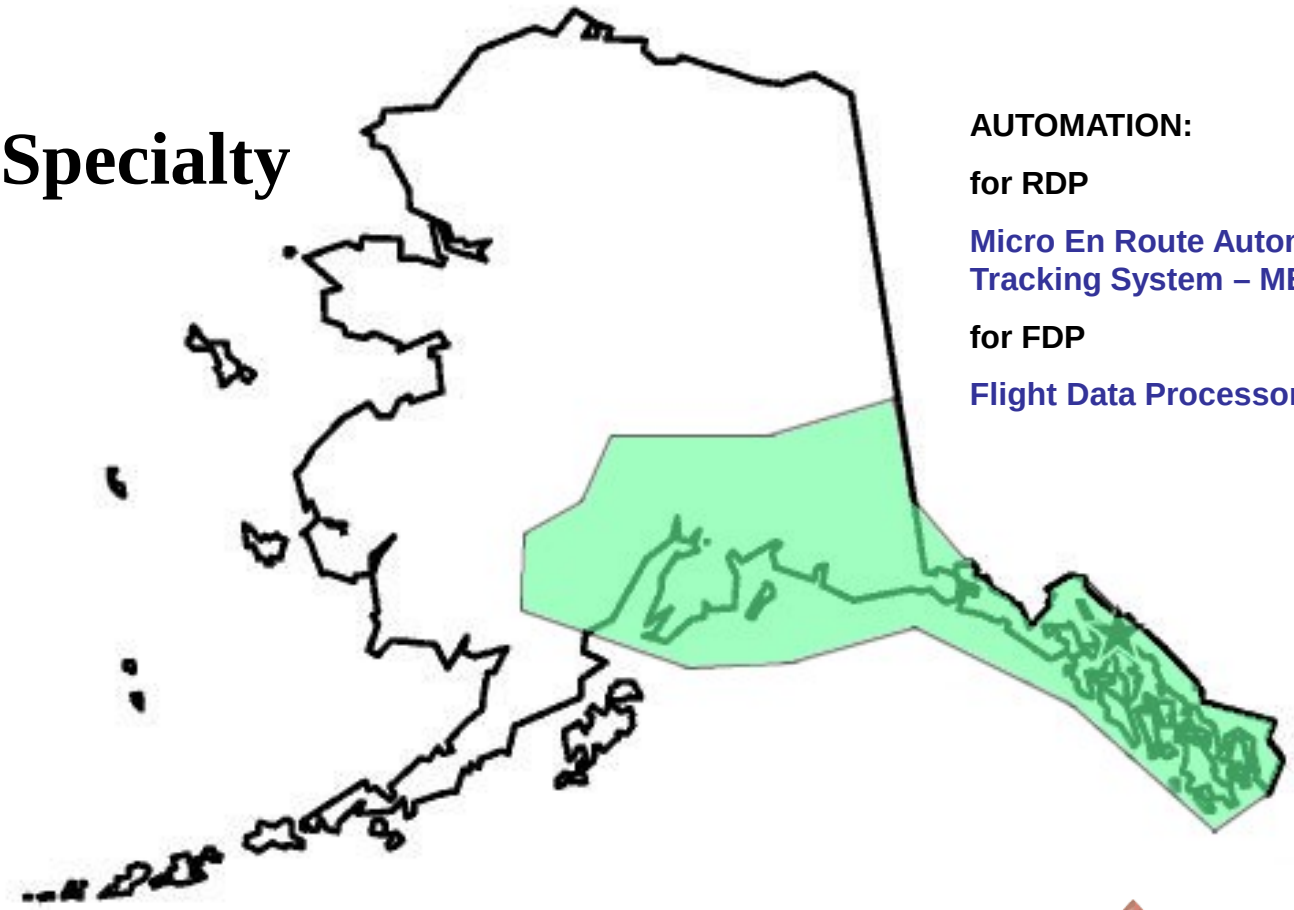
**Micro En Route Automated Radar Tracking System – MEARTS**

**for FDP**

**Flight Data Processor 2000 – FDP200**

# Anchorage ARTCC (ZAN) Update

## South Specialty



**AUTOMATION:**

**for RDP**

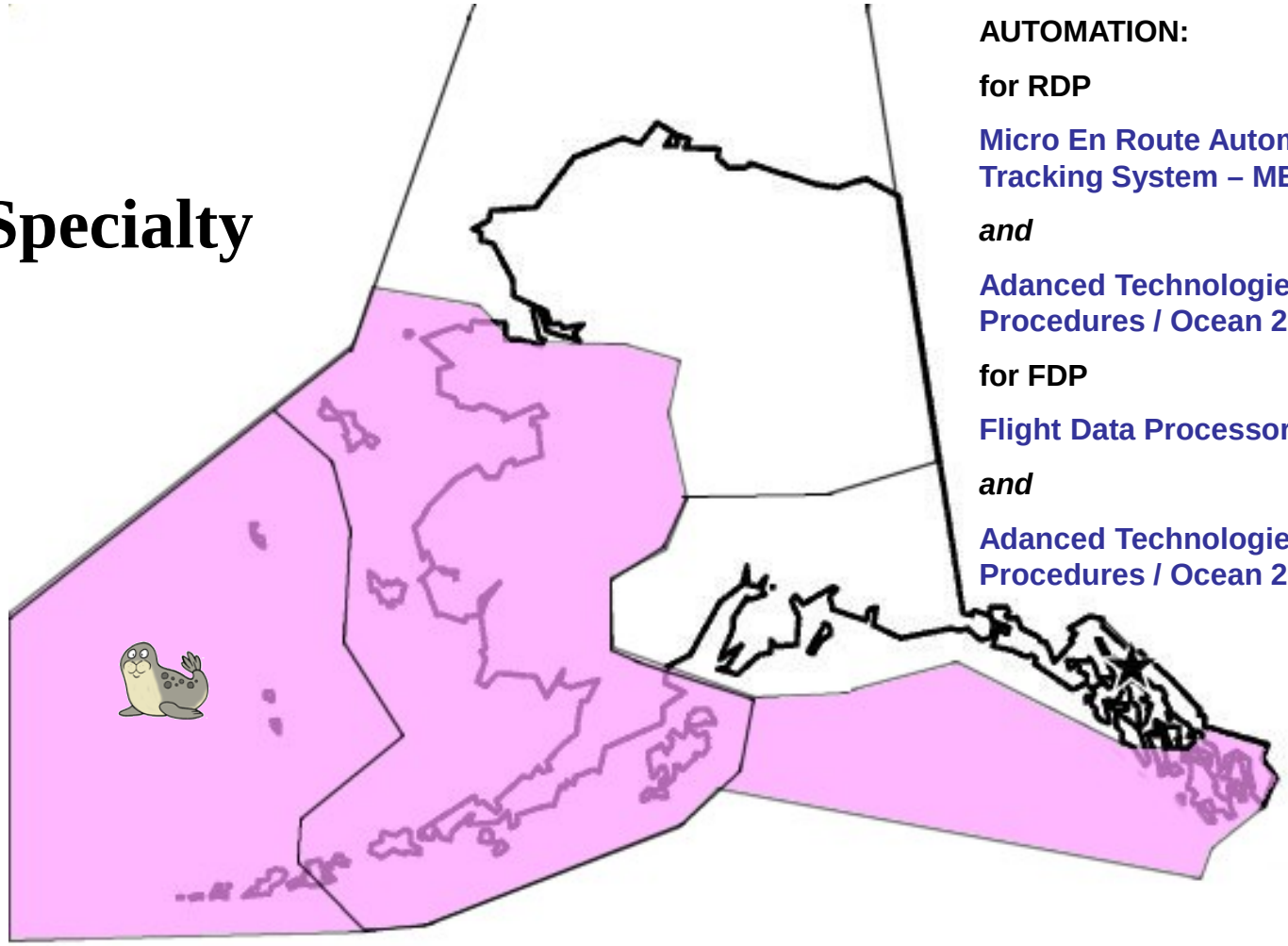
**Micro En Route Automated Radar Tracking System – MEARTS**

**for FDP**

**Flight Data Processor 2000 – FDP200**

# Anchorage ARTCC (ZAN) Update

**High Specialty**



**AUTOMATION:**

**for RDP**

**Micro En Route Automated Radar Tracking System – MEARTS**

***and***

**Adanced Technologies and Oceanic Procedures / Ocean 21 – ATOP/OC21**

**for FDP**

**Flight Data Processor 2000 – FDP2000**

***and***

**Adanced Technologies and Oceanic Procedures / Ocean 21 – ATOP/OC21**

# Anchorage ARTCC (ZAN) Update

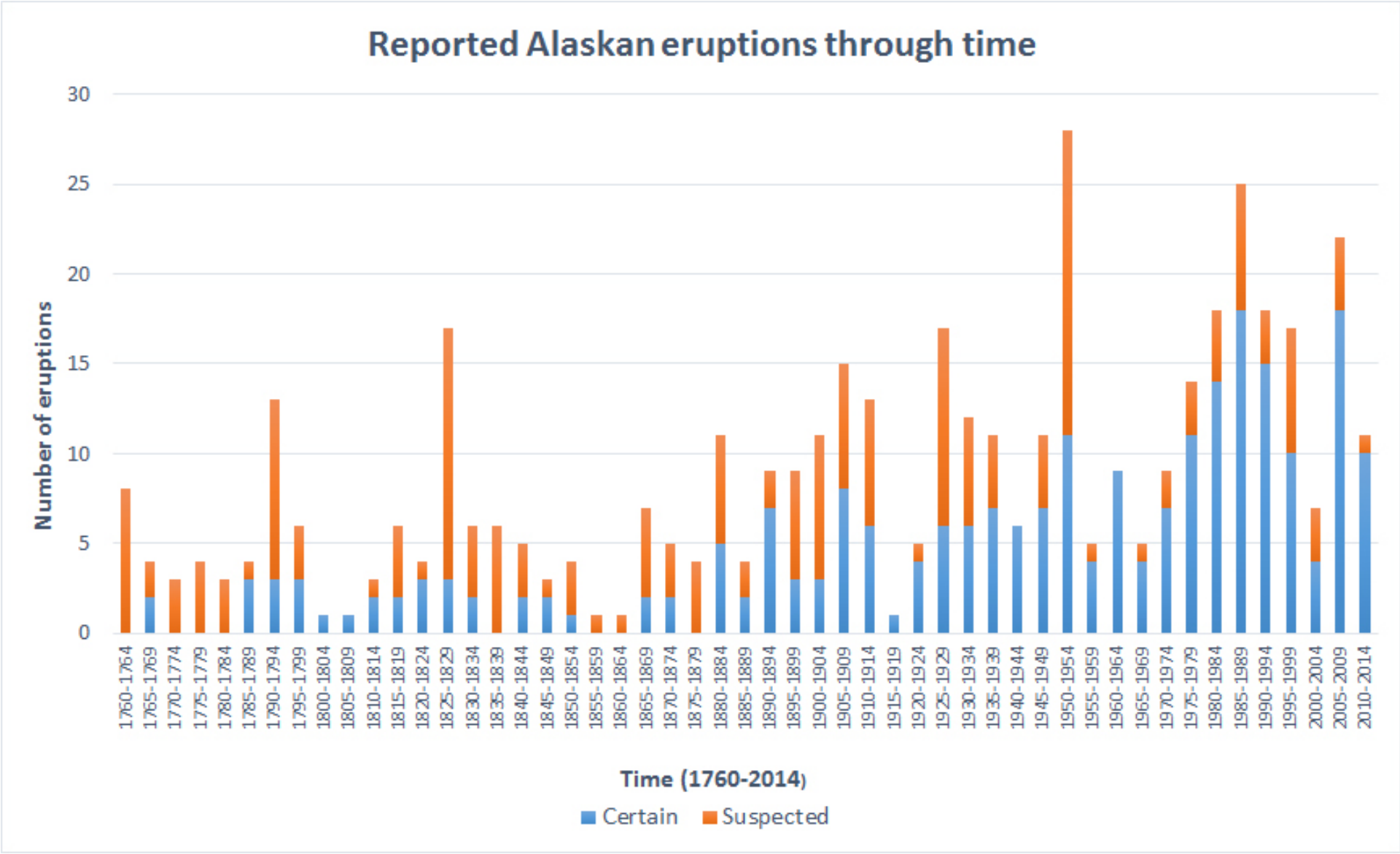
## Volcanoes

The following maps and information courtesy of the

Alaska Volcano Observatory

http://www.avo.alaska.edu/

North Pacific Volcanoes
Anchorage ARTCC (FAA)
October, 2015
Kotzebue
Fairbanks
North Pole
Churchill (847CE)
Wrangell (2002CE)
Nome
Valdez
Wasilla
Cordova
Palmer
Spurr (1992CE)
Anchorage
Kenai
Seward
Redoubt (2009CE)
Homer
Bethel
Fourpeaked (2006CE)
Dillingham
Trident (1974CE)
Katmai (1912CE)
Martin (1953CE)
Chiginagak (1998CE)
Kupreanof (1987CE)
Veniaminof (2013CE)
Pavlof (2014CE)
Shishaldin (2015CE)
Unalaska
Akutan (1992CE)
Makushin (1995CE)
Okmok (2008CE)
Kagamil (1929CE)
Cleveland (2015CE)
Yunaska (1937CE)
Amukta (1997CE)
Kasatochi (2008CE)
Great Sitkin (1974CE)
Kanaga (2012CE)
Gareloi (1989CE)
Kiska (1990CE)
Semisopochnoi (1987CE)
Sheveluch (2015CE)
Klyuchevskoy (2015CE)
Bezymianny (2013CE)
Kizimen (2013CE)
Kronotsky (1923CE)
Koryaksky (2009CE)
Karymsky (2015CE)
Avachinsky (2001CE)
Alaid (2012CE)
Ksudach (1907CE)
Zheltovsky (1923CE)
Iliinsky (1901CE)
Ebeko (2010CE)
Bering Sea
Aleutian Basin
Gulf of Shelekov
Gulf of Alaska
Aleutian Trench
Legend
Year Of Last Eruption
70CE - 500CE
501CE - 1000CE
1001CE - 1500CE
1501CE - 1900CE
1901CE - 1920CE
1921CE - 1940CE
1941CE - 1960CE
1961CE - 1980CE
1981CE - 2000CE
2001CE - 2015CE
Global Volcanism Program, 2013. Volcanoes of the World, v. 4.4.1. Venzke, E (ed.). Smithsonian Institution. Downloaded 16 Oct 2015. http://dx.doi.org/10.5479/si.GVP.VOTW4-2013
Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.




**Creator:** Cheryl Cameron- Alaska Volcano Observatory/Alaska Division of Geological & Geophysical Surveys

# So, volcanic ash, what's the big deal?

•On December 15, 1989, a Boeing 747 flying 240 kilometers (150 miles) northeast of Anchorage encountered an ash cloud erupted from Redoubt Volcano and lost power in all four jet engines. The plane, with 231 passengers aboard, lost more than 3,000 meters (~9,800 feet) of elevation before the flight crew was able to restart the engines (Casadevall, 1994). After landing, it was determined the airplane had suffered about $80 million in damage (Brantley, 1990).

*Provided by Alaska Volcano Observatory
web site- http://www.avo.alaska.edu/

# Anchorage ARTCC (ZAN) Update

- Anchorage ARTCC
- **Sector “64”**
- New Magadan FIR Entry Fixes
- Oceanic Performance
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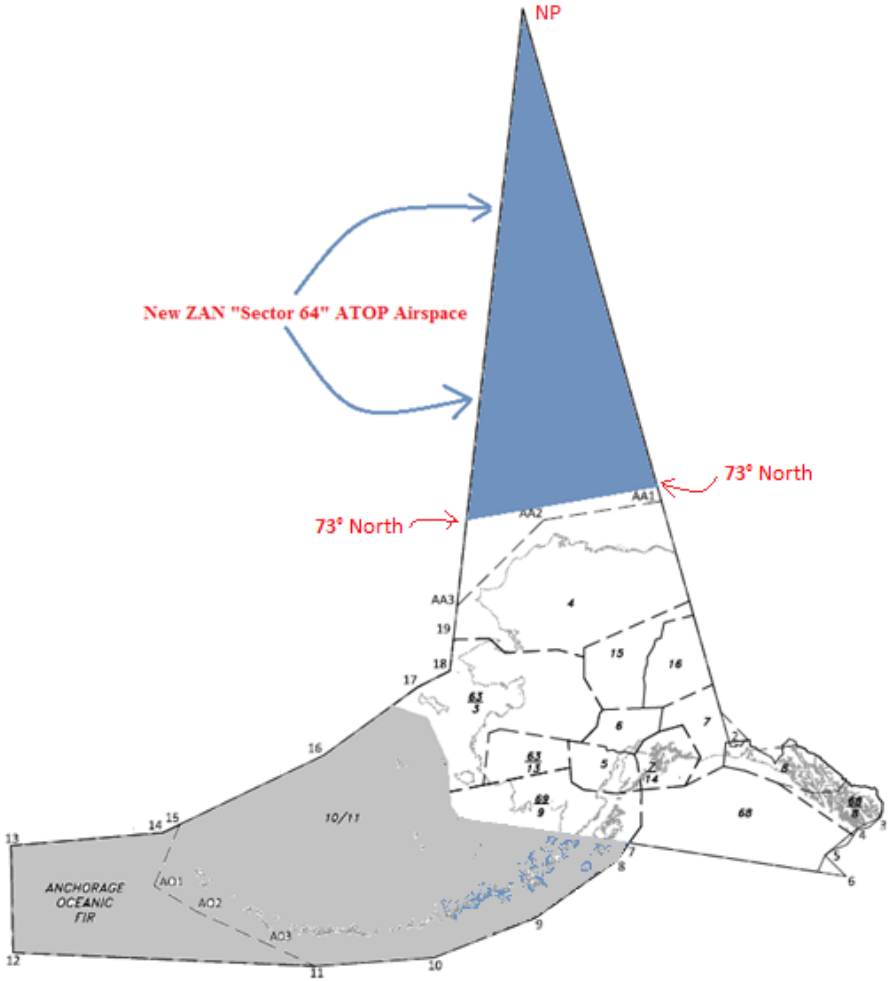
# Anchorage ARTCC (ZAN) Update

## ZAN Sector “4” to “4 and 64”



# Anchorage ARTCC (ZAN) Update

**ZAN Sector “64”**

- Due to issues regarding staffing and system software, Anchorage has determined it necessary to delay implementation of “Sector 64” in the Arctic airspace.
- Resolutions to these issues are not yet in hand, but Anchorage’s intention is to move forward with Sector 64 as early as possible.
- Updates will be provided as they become available.

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# Anchorage ARTCC (ZAN) Update

**The following is based upon preliminary information received from Magadan ACC / State ATM Corp. of Russia.**

**The Traffic Management Initiatives discussed are tentative and subject to change.**

**Dispatchers should closely monitor PAZA and UHMM NOTAMs for possible changes to this information.**

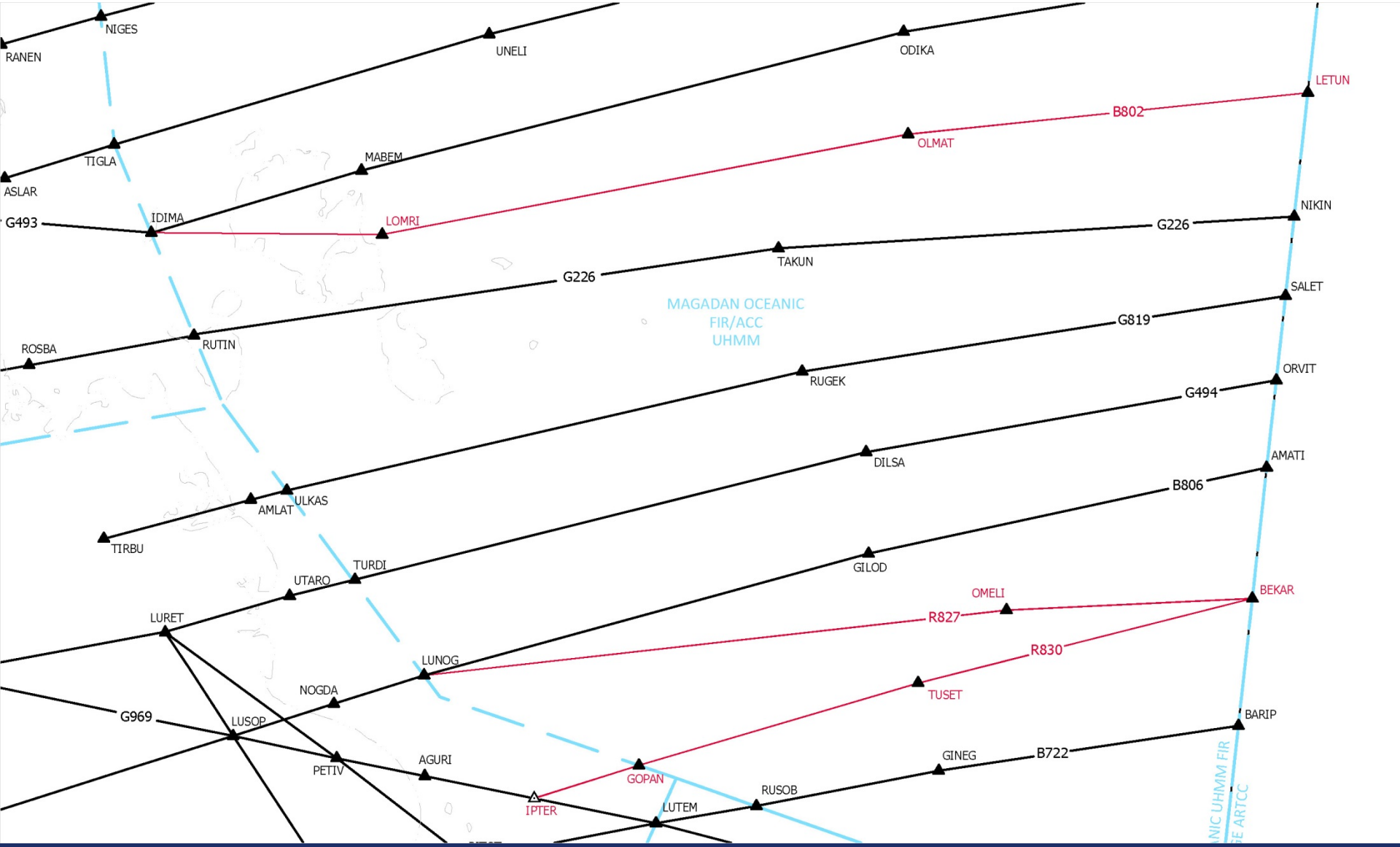
# Anchorage ARTCC (ZAN) Update

- **Effective *November 12, 2015*, Magadan ACC is making two new entry fixes available for Cross Polar flights across the Anchorage Arctic / Magadan Oceanic FIR boundary: LETUN and BEKAR.**
- **Preliminary information received from Magadan / State ATM Corp describes the available routings as:**
  - **LETUN B802 OLMAT B802 LOMRI B802 IDIMA**

  **and**

  - **BEKAR**
    - **R827 OMELI R827 LUNOG**
    - **R830 TUSET R830 GOPAN**

# Anchorage ARTCC (ZAN) Update



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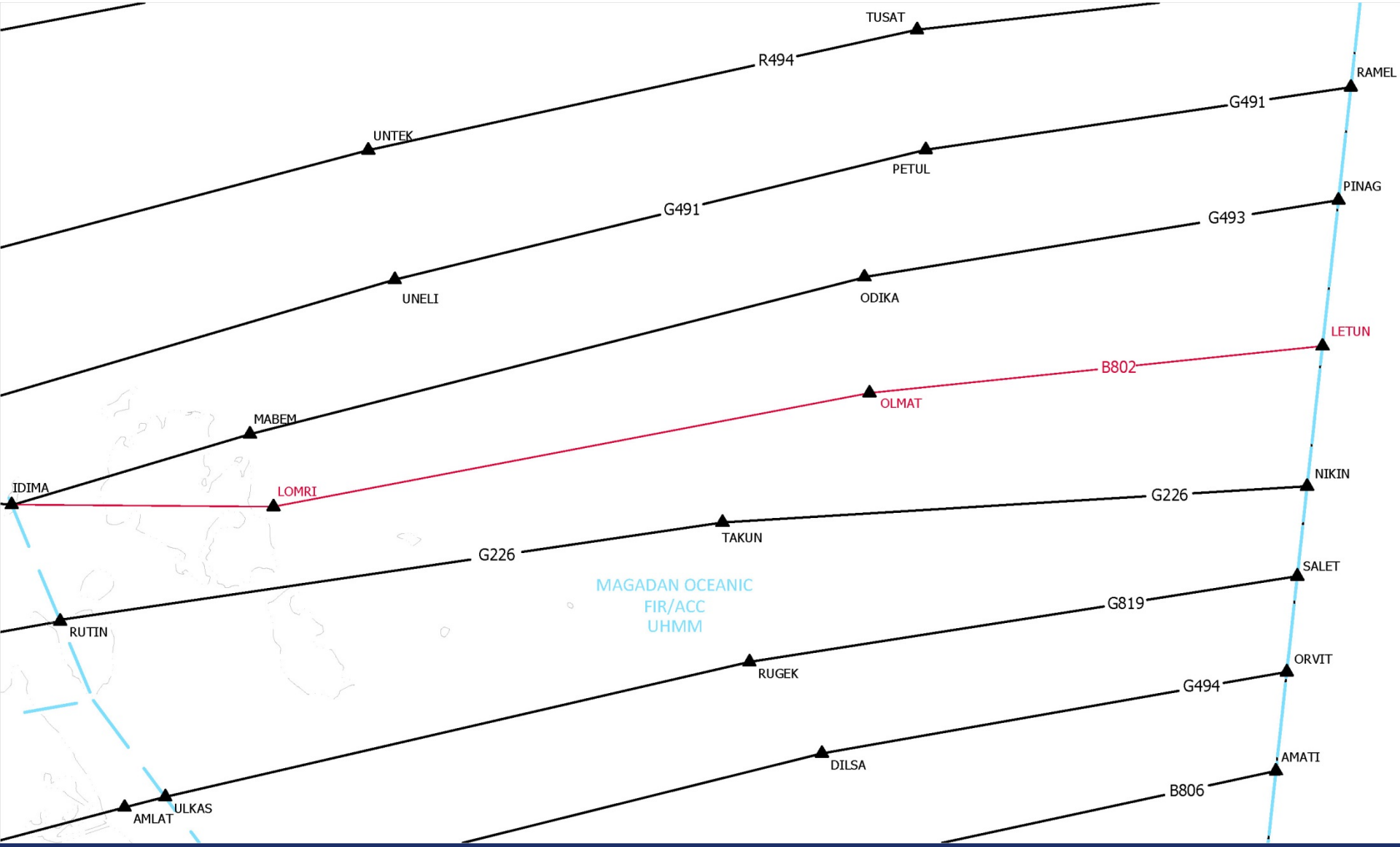
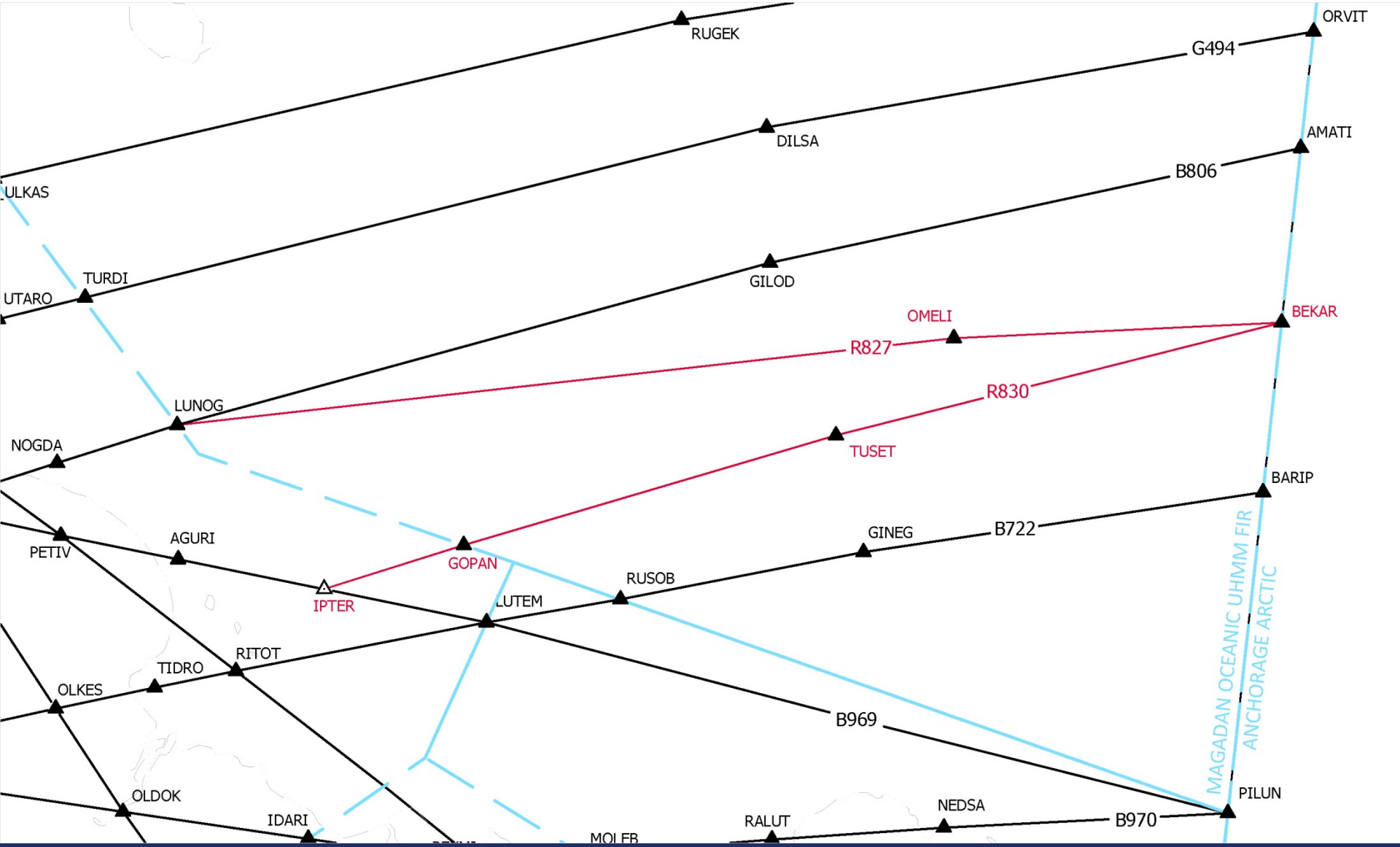


# Anchorage ARTCC (ZAN) Update



# Anchorage ARTCC (ZAN) Update

- **DOTS Plus TKFs may be filed for LETUN and BEKAR beginning at 2015/11/12/0915 UTC for flights which will cross LETUN or BEKAR <u>at or after 2015/11/12/1500</u> UTC**
- **Existing PAZA Traffic Management Procedures (PAZA NOTAM A0395/14) will be modified to accommodate LETUN / BEKAR traffic.**
  - ➢ Current restriction for traffic filed PINAG permits traffic to cross 141W over or between PEASY and 8200N141W.
  - ❖ *Revised restriction for PINAG will require PINAG traffic to file over PEASY*.
  - ➢ Current restriction for AMATI permits traffic to cross 141W between JESRU and 7700N141W.
  - ❖ *Revised restriction for AMATI will require AMATI traffic to file over **AGMIF*** (AGMIF IS 7700N14100W)*.
  - ❑ LETUN* traffic will be required to cross 141W over ***LAHEY**** (LAHEY is 8200N14100W).
  - ❑ BEKAR* traffic will be required to cross 141W over JESRU.

*New fixes effective November 12th, 2015.

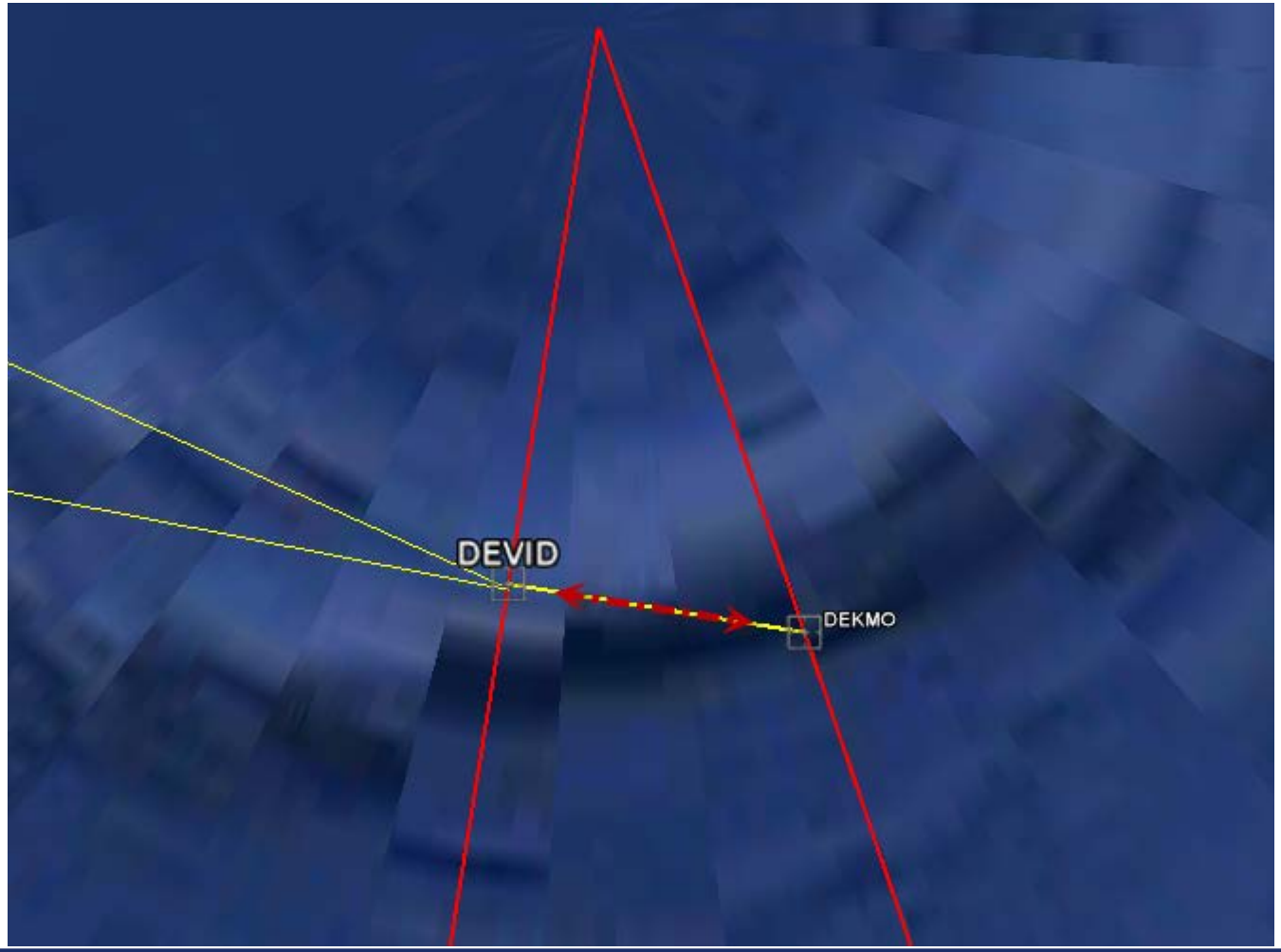
# Anchorage ARTCC (ZAN) Update

- **Also effective November 12th, additional changes will be made to existing PAZA Traffic Management Procedures (PAZA NOTAM A0395/14) in order to smooth/simplify operations along 141W.**
  - ➢ Current restriction for traffic filed RAMEL requires traffic to file over, or between RESUM and 8350N.
  - ❖ *Revised restriction for RAMEL will require RAMEL traffic to file over RESUM*.
  - ➢ Current restriction for NIKIN requires traffic to file over, or between COALL and 8100N14100W.
  - ❖ *Revised restriction for NIKIN will require NIKIN traffic to file over **NAMWE*** (NAMWE IS 8100N14100W)*.

*New fixe effective November 12th, 2015.

# Anchorage ARTCC (ZAN) Update

## Changes to Anchorage Arctic FIR Routing NOTAM



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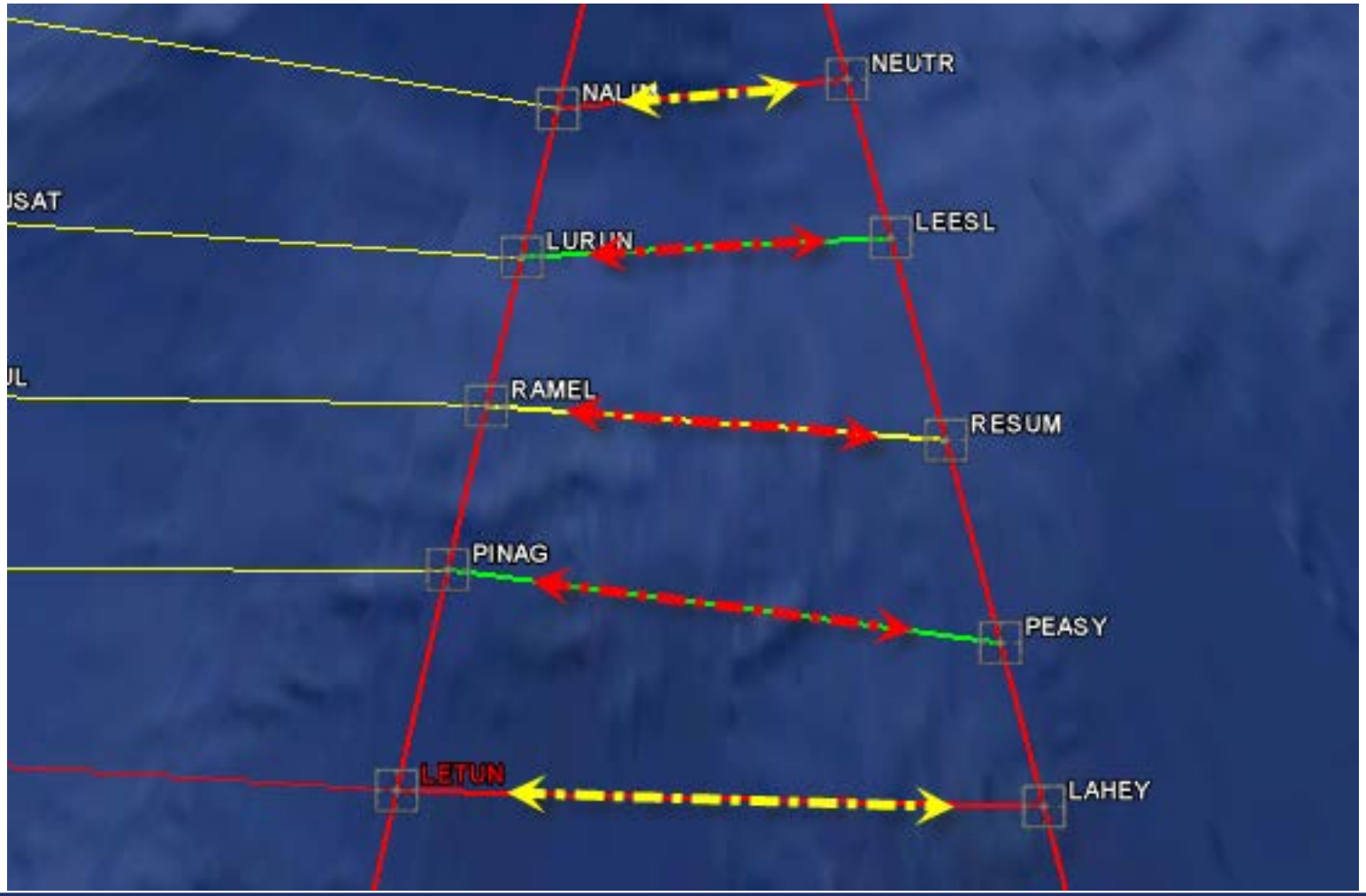

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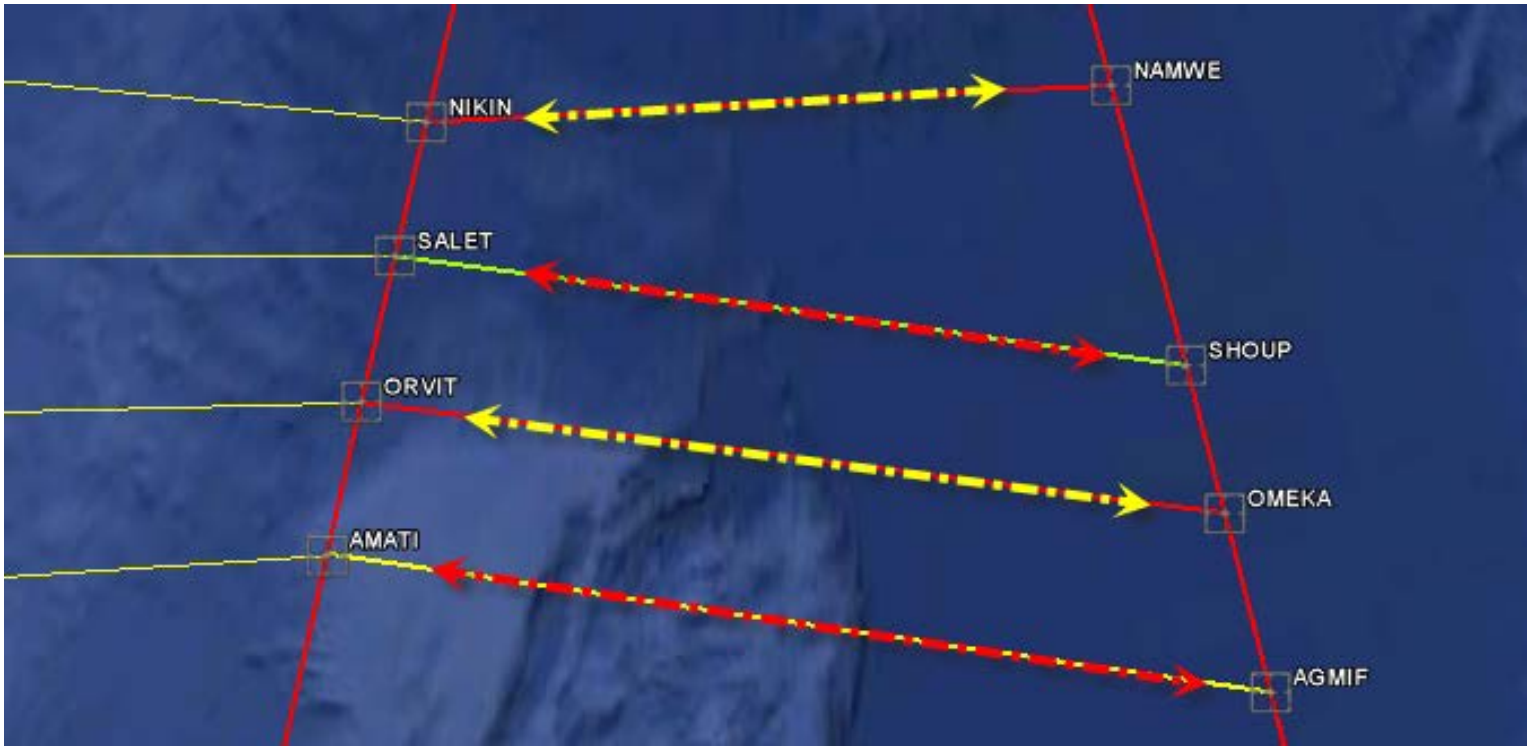

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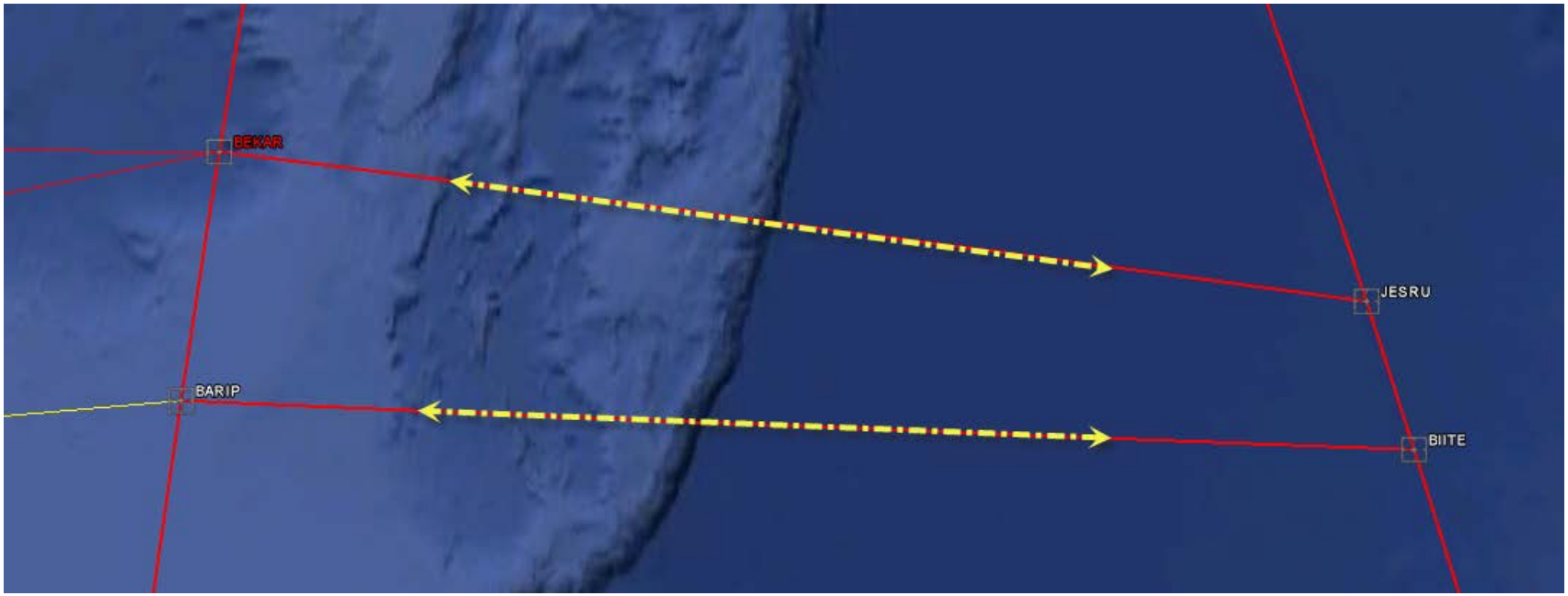

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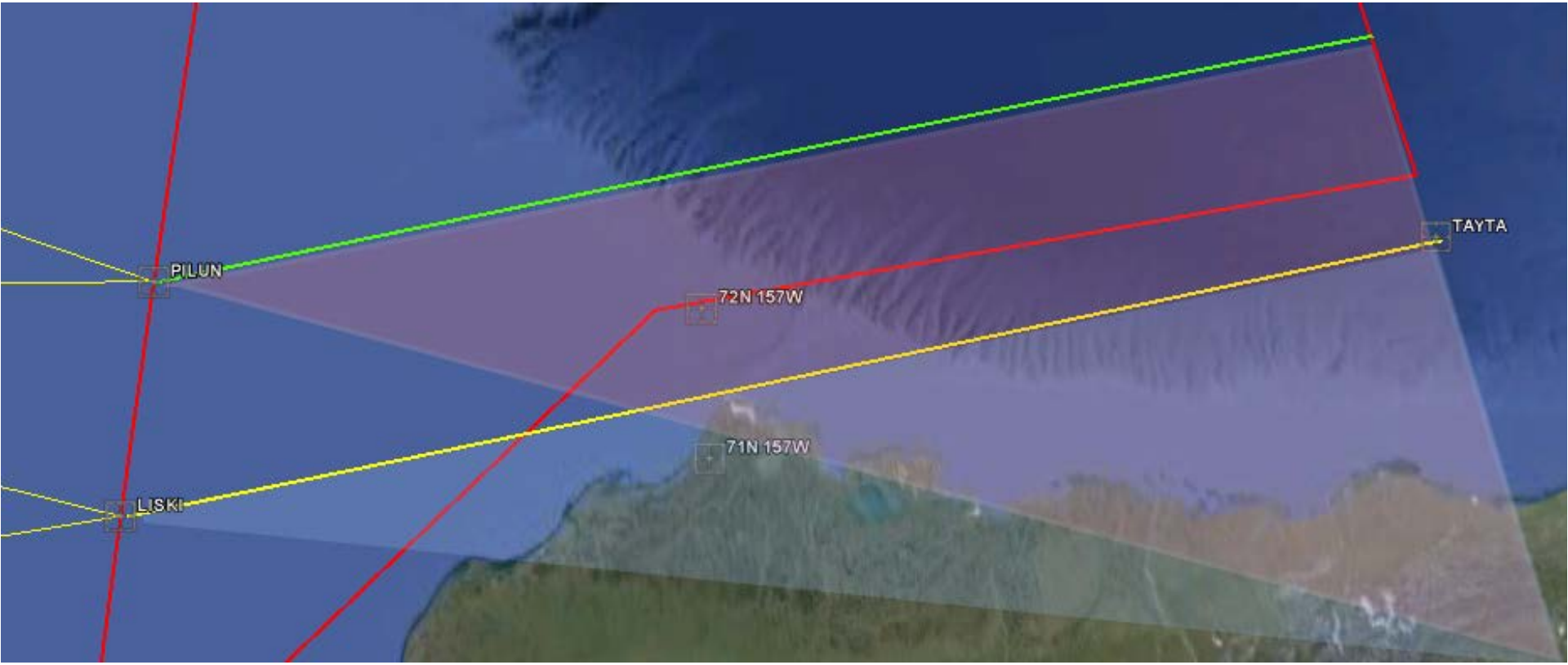

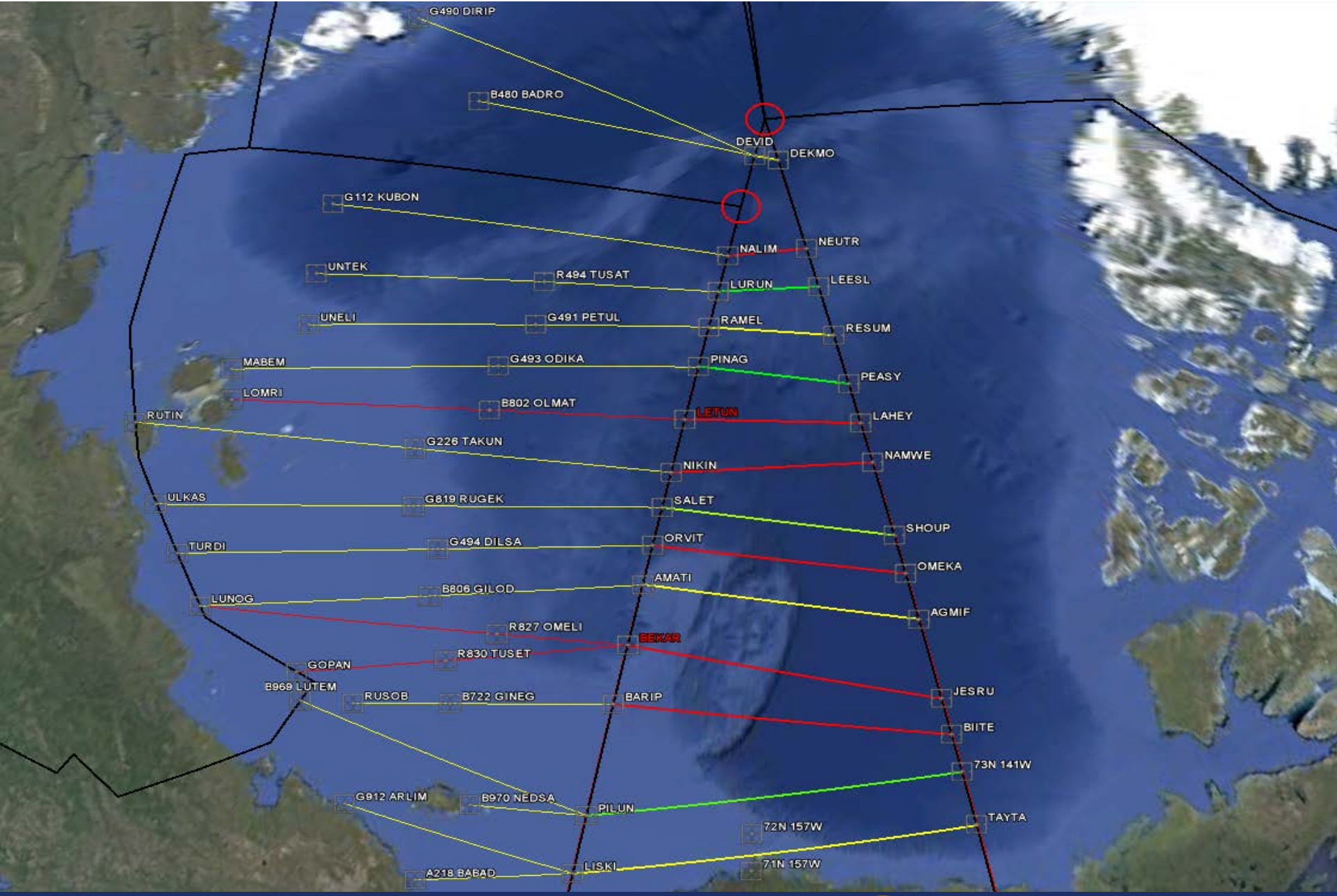
G490 DIRIP
B480 BADRO
DEVID
DEKMO
G112 KUBON
NALIM
NEUTR
UNTEK
R494 TUSAT
LURUN
LEESL
UNELI
G491 PETUL
RAMEL
RESUM
MABEM
G493 ODIKA
PINAG
PEASY
LOMRI
B802 OLMAT
LETUN
LAHEY
RUTIN
G226 TAKUN
NIKIN
NAMWE
ULKAS
G819 RUGEK
SALET
SHOUP
TURDI
G494 DILSA
ORVIT
OMEKA
AMATI
LUNOG
B806 GILOD
AGMIF
R827 OMELI
BEKAR
R830 TUSET
GOPAN
B969 LUTEM
RUSOB
B722 GINEG
BARIP
JESRU
BIITE
73N 141W
G912 ARLIM
B970 NEDSA
PILUN
TAYTA
72N 157W
A218 BABAD
LISKI
71N 157W

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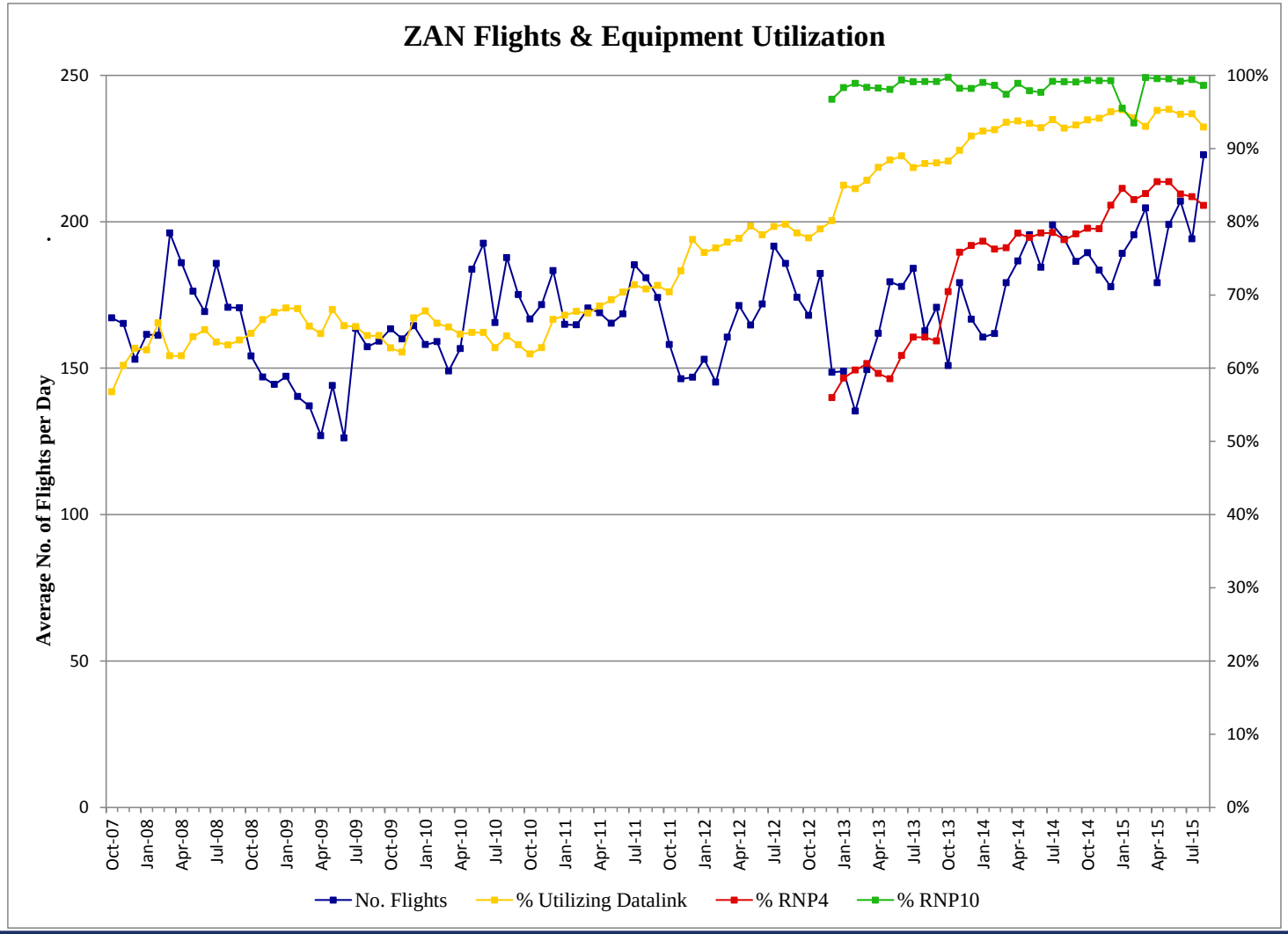
# Anchorage ARTCC (ZAN) Update

## Oceanic Performance

**The Advanced Technologies and Oceanic Procedures / Ocean 21 system (ATOP/OC21) permits FAA to gather data vis-à-vis Oceanic operations. The following charts provide a visual presentation of this selected data.**

# Anchorage ARTCC (ZAN) Update

## Oceanic Performance



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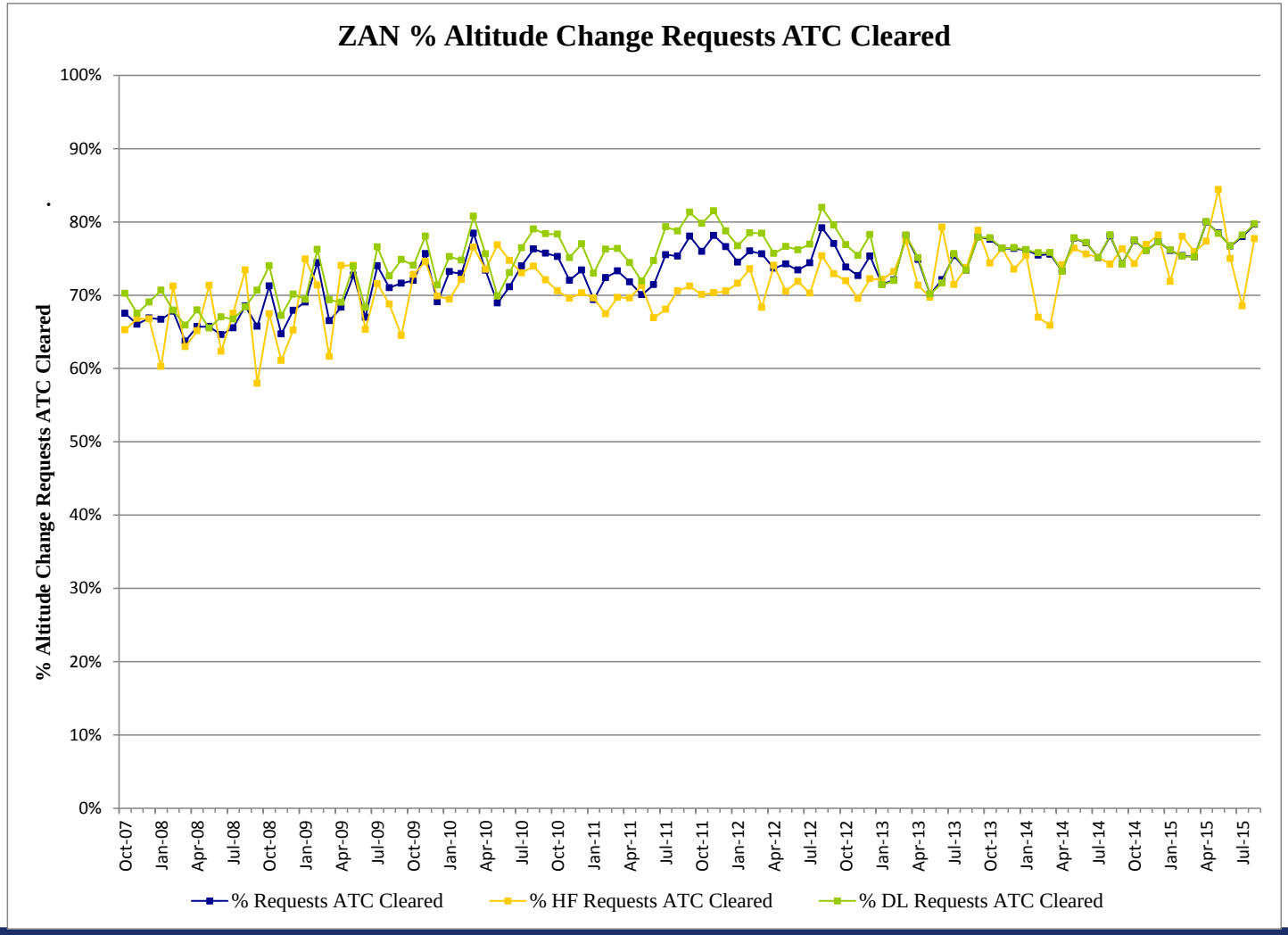
## Oceanic Performance



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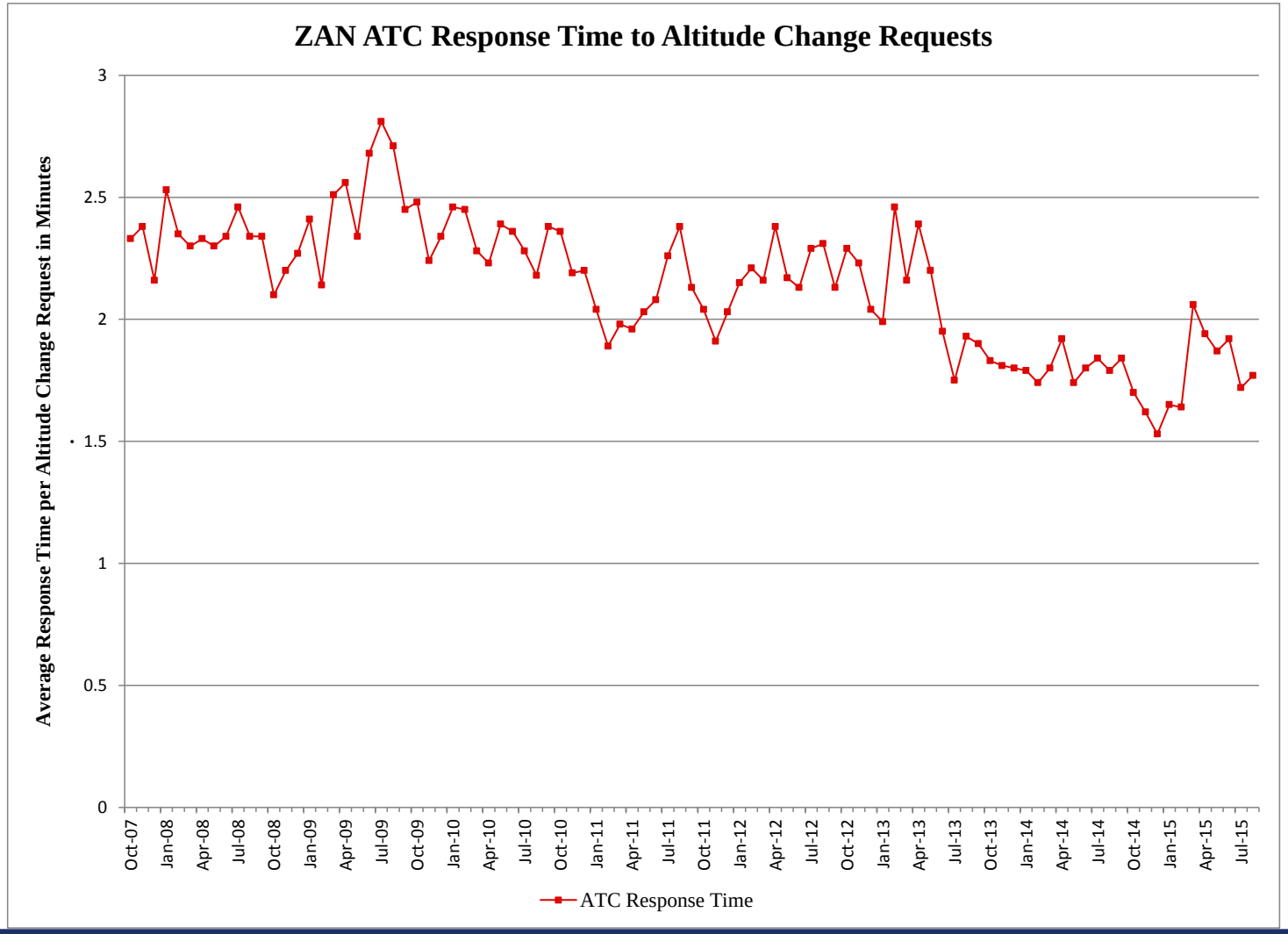

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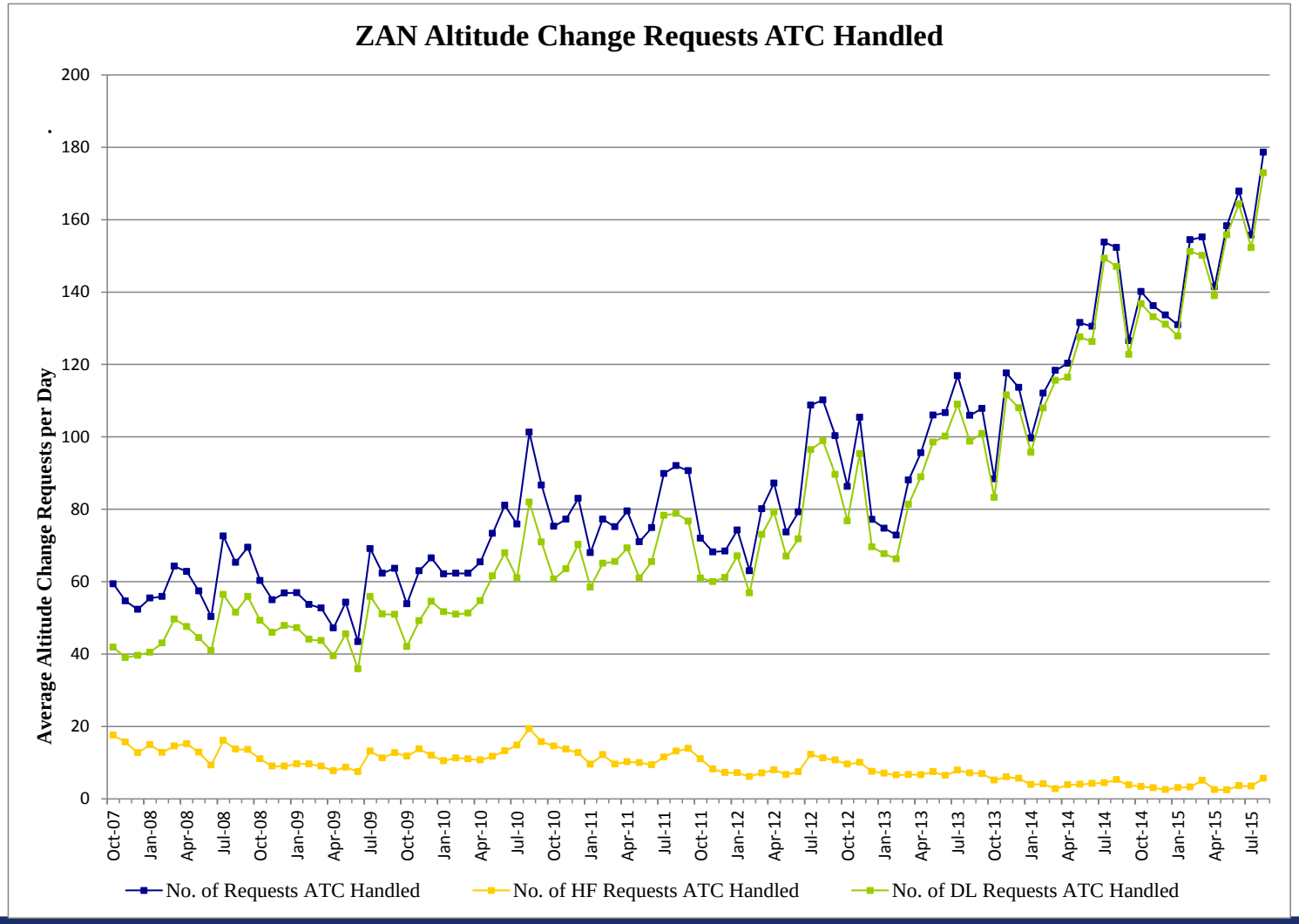

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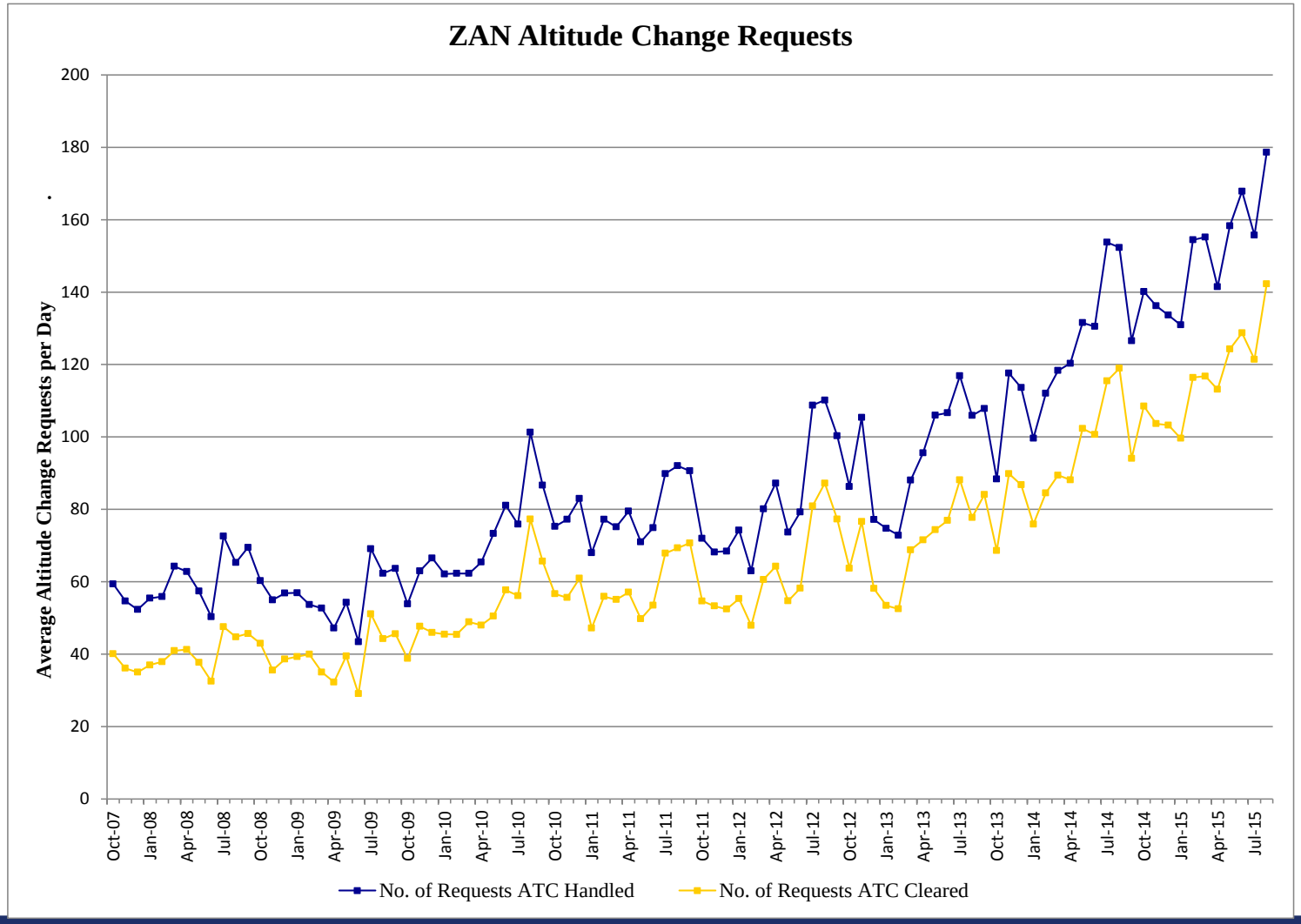
## Oceanic Performance



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# Anchorage ARTCC (ZAN) Update

## Kodiak Launch Facility

**Has been renamed. It is now; "Pacific Spaceport Complex-Alaska"**

Courtesy www.akaerospace.com

# Anchorage ARTCC (ZAN) Update

## Pacific Spaceport Complex-Alaska

No launch activity coordinated for this period.

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# Anchorage ARTCC (ZAN) Update

## Unmanned Aircraft Systems (UAS)

# Anchorage ARTCC (ZAN) Update

## UAS Activities

- **No updates**

# Anchorage ARTCC (ZAN) Update

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# Anchorage ARTCC (ZAN) Update

## Military Exercises

- **Large scale military exercises planned for 2016:**
  - Red Flag 16-1 dates 29 Apr – 13 May, 2016
  - Red Flag 16-2 dates 03 Jun – 17 Jun, 2016
  - Red Flag 16-3 dates 05 Aug – 19 Aug, 2016
  - Red Flag 17-1 dates 07 Oct – 21 Oct, 2016

- **Exercises involve 50 plus aircraft and numerous Military Operations Areas (MOAs), ATC Assigned Airspaces (ATCAAs), and Restricted Areas.**
- **Traffic Management Initiatives (TMIs) will be issued to accommodate non-participating aircraft.**

# Anchorage ARTCC (ZAN) Update

## Military Exercises

## Red Flag TMIs

**1)** ***ALL WESTBOUND FLIGHTS ENTERING THE ANCHORAGE FIR NORTH OF 62N141W MUST BE ESTABLISHED ON ONE OF THE FOLLOWING ROUTES: (A) ON OR NORTH OF NCA30 (B) OVER OR SOUTH OF ORT.*** IF ROUTING VIA ORT, UTILIZE ONE OF THE FOLLOWING TRANSITIONS:

**(1)** ORT J124 BGQ NODLE R220

**(2)** ORT J124 BGQ NODLE NICHO R580

**(3)** ORT J124 GKN 6140N151W MCG

**2)** ***ALL EASTBOUND FLIGHTS TRANSITING THE ANCHORAGE FIR SHALL FLIGHT PLAN VIA ONE OF THE FOLLOWING***:

**(A)** ON OR NORTH OF FYU J167 POTAT NCA30

**(B)** OVER OR SOUTH OF ANC J511 GKN J124 ORT

# Anchorage ARTCC (ZAN) Update

## Military Exercises

## Red Flag TMIs

**3)** THE FOLLOWING ROUTES ARE **NOT** AVAILABLE:

**(A)** ***NCA28, NCA24, NCA19 AND NCA22***

**(B)** J167 BETWEEN GKN AND FYU

**(C)** ***J502/J515 BETWEEN FAI AND ORT***

**(D)** V481 BETWEEN BIG AND FYU

**(E)** J507 BETWEEN ORT AND FYU

**4)** FROM 1700-1800 UTC, 2030-2100 UTC, 2300-0000 UTC AND 0230-0300 UTC WEEKDAYS ***AIRCRAFT LANDING/DEPARTING FAI*** AND LOW ALTITUDE AIRCRAFT FILED BETWEEN BIG AND ORT OR BIG AND GKN WILL BE RESTRICTED AT OR BELOW 17000 MSL.

# Anchorage ARTCC (ZAN) Update

## Military Exercises

### Red Flag TMIs

**5)** FROM 1800-2030 UTC AND 0000-0230 UTC WEEKDAYS, THE FOLLOWING ROUTES ARE NOT AVAILABLE:

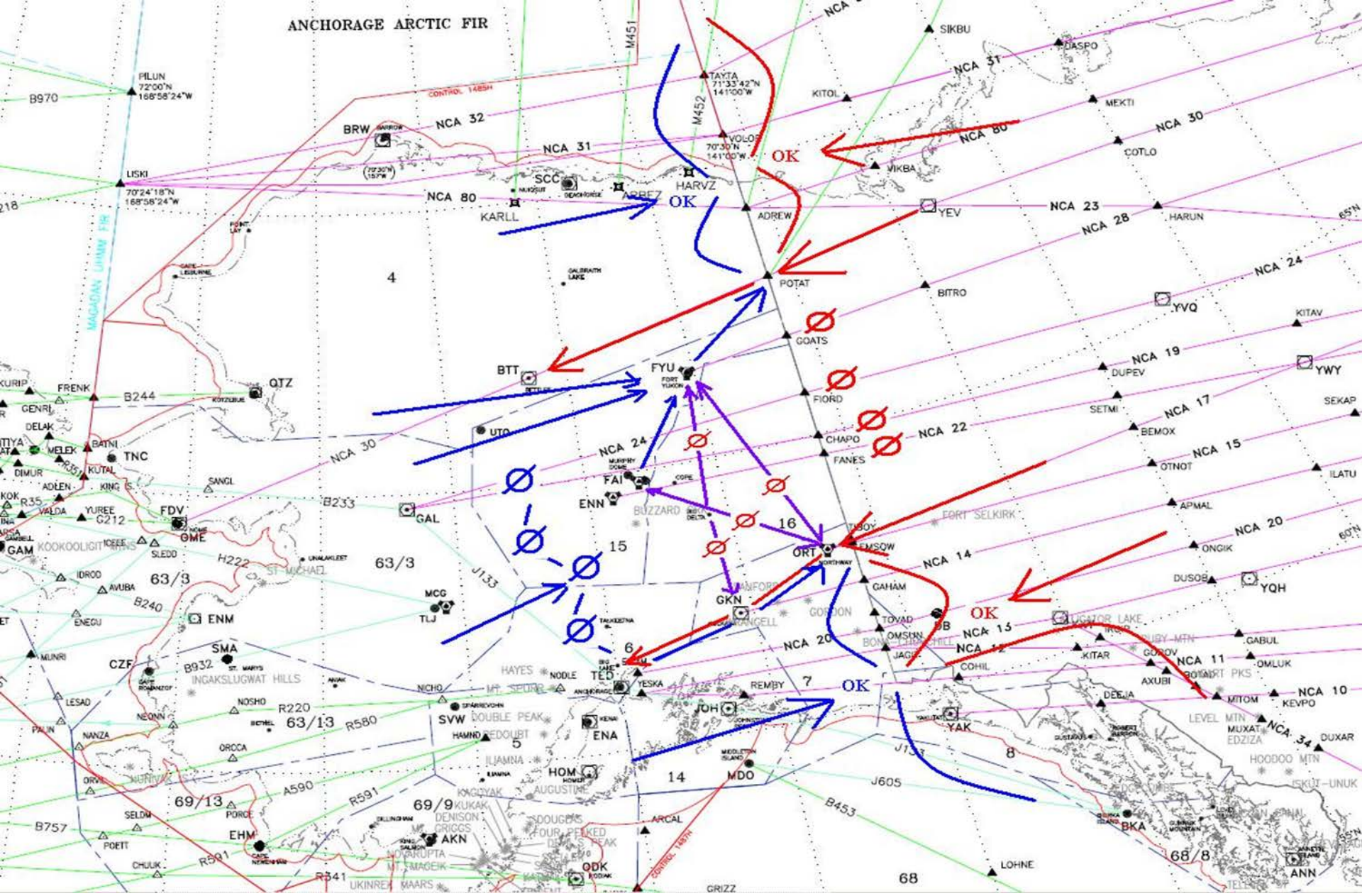
**(A)** A2, A15 AND B25

**(B)** V444, V481 AND V515

**(C)** T232 AND T226

**(D)** ***DIRECT ROUTES OVER OR IN THE VICINITY OF BIG***.

**6)** FROM 1800-2030 UTC AND 0000-0230 UTC, IFR ARRIVALS/DEPARTURES TO/FROM ALLEN AAF ARE UNAVAILABLE.


ANCHORAGE ARCTIC FIR
OK
OK
OK
OK
NCA 32
NCA 31
NCA 80
NCA 23
NCA 28
NCA 24
NCA 19
NCA 17
NCA 22
NCA 15
NCA 20
NCA 14
NCA 13
NCA 12
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NCA 10
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NCA 30
NCA 24
NCA 31
NCA 80
NCA 30
NCA 31
NCA 32
BRW
SCC
KARLL
HARVZ
ADREW
POTAT
YEV
BITRO
GOATS
FIORD
CHAPO
FANES
BTT
FYU
UTO
FAI
ENN
GAL
QTZ
TNC
FDV
OME
GAM
ENM
SMA
CZF
MCG
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YESKA
JOH
REMBY
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EHM
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BKA
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YQH
YWY
YVQ
KITAV
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OMLUK
KEVPO
DUXAR
MITOM
MUXAT
EDZIZA
HOODOO MTN
ISKUT-UNUK
LEVEL MTN
DEEJA
AXUBI
KITAR
COHIL
GAHAM
TOVAD
OMSUN
JAGIS
DB
FORT SELKIRK
BUZZARD
GORDON
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DOUBLE PEAK
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KAGUYAK
KUKAK
DENISON
GRIGGS
DOUGLAS
FOUR PEAKED
MT. MAGEIK
UKINREK MAARS
ARCAL
GRIZZ
LOHNE
ANCHORAGE
ST. MICHAEL
KOOKOOLIGIT MTNS
INGAKSLUGWAT HILLS
MAGADAN UHMM FIR
CONTROL 1485H
CONTROL 1487H
B970
B244
B233
B240
B932
B757
B453
J133
J605
R220
R580
R591
R341
A590
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63/13
69/13
69/9
68
68/8
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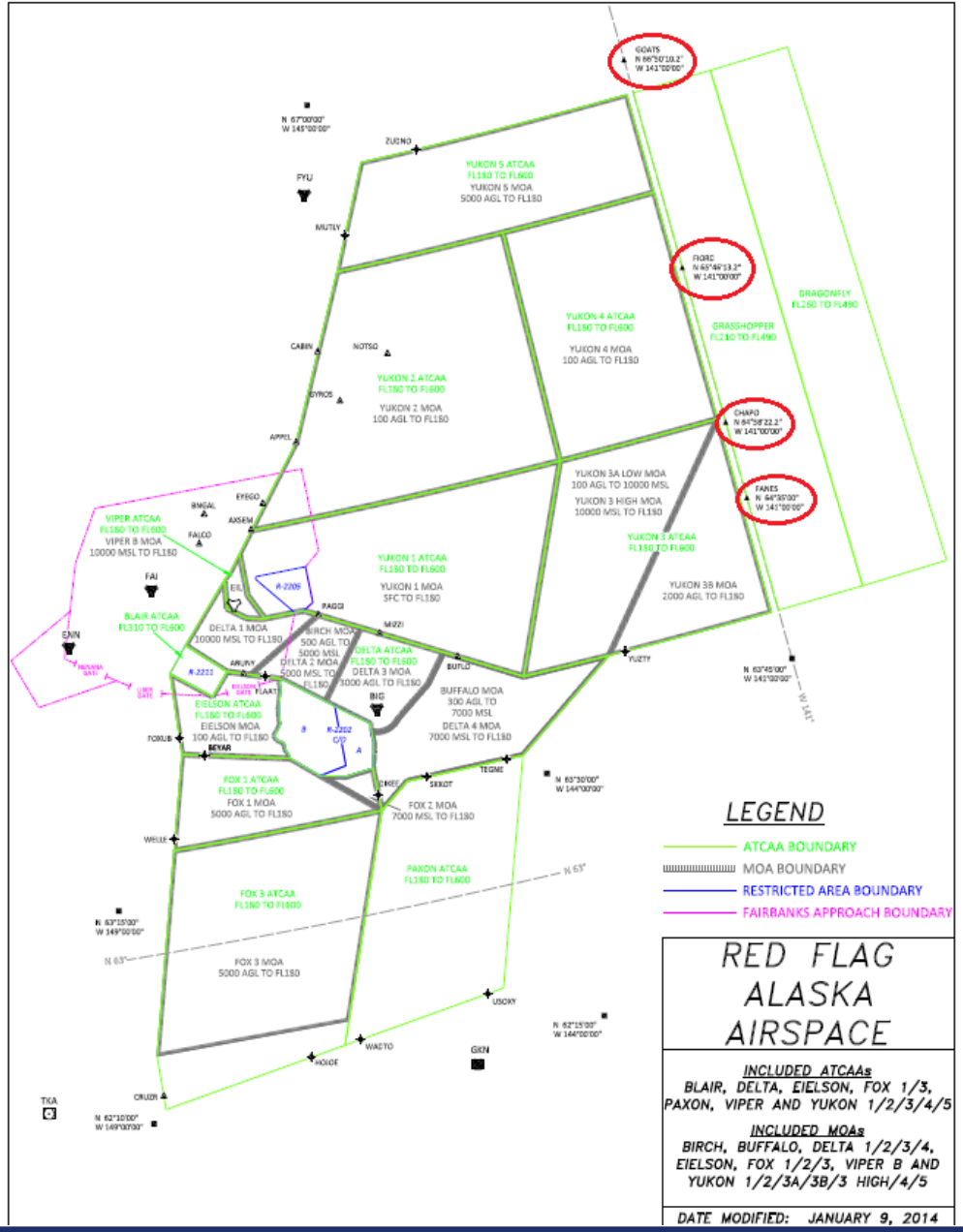
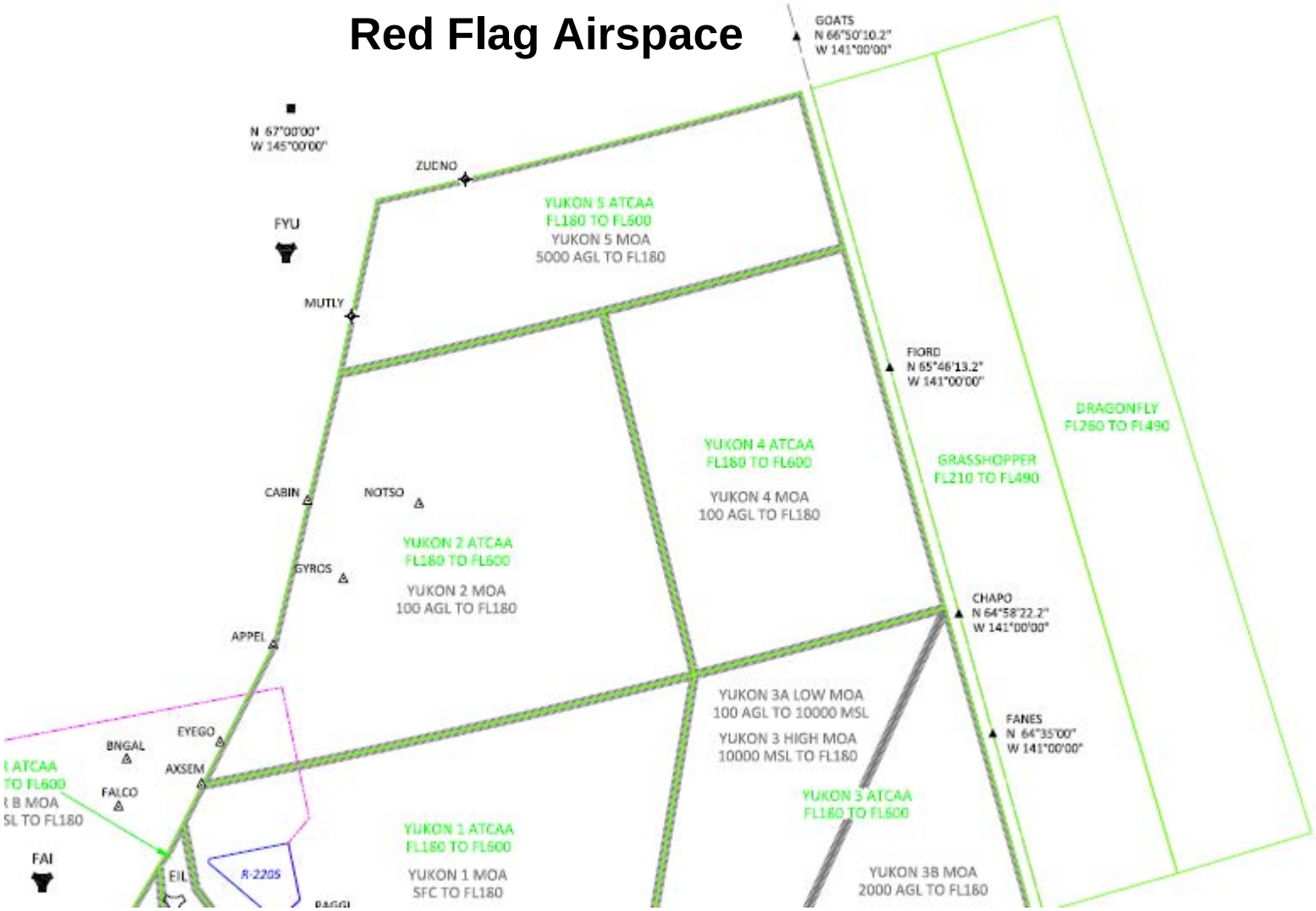
15
16


GOATS
N 66°50'10.2"
W 141°00'00"
N 67°00'00"
W 145°00'00"
ZUENO
FYU
MUTLY
YUKON 5 ATCAA
FL180 TO FL600
YUKON 5 MOA
5000 AGL TO FL180
FIORD
N 65°49'13.2"
W 141°00'00"
DRAGONFLY
FL260 TO FL490
GRASSHOPPER
FL210 TO FL490
YUKON 4 ATCAA
FL180 TO FL600
YUKON 4 MOA
100 AGL TO FL180
CABIN
NOTSO
YUKON 2 ATCAA
FL180 TO FL600
YUKON 2 MOA
100 AGL TO FL180
CHAPO
N 64°58'22.2"
W 141°00'00"
APPEL
YUKON 3A LOW MOA
100 AGL TO 10000 MSL
YUKON 3 HIGH MOA
10000 MSL TO FL180
FANES
N 64°35'00"
W 141°00'00"
EYEGO
BNGAL
AXSEM
VIPER ATCAA
FL180 TO FL600
VIPER B MOA
10000 MSL TO FL180
FALCO
YUKON 3 ATCAA
FL180 TO FL600
YUKON 1 ATCAA
FL180 TO FL600
YUKON 1 MOA
SFC TO FL180
YUKON 3B MOA
2000 AGL TO FL180
FAI
R-2205
PAGGI
BLAIR ATCAA
FL310 TO FL600
DELTA 1 MOA
10000 MSL TO FL180
BIRCH MOA
500 AGL TO
5000 MSL
DELTA 2 MOA
5000 MSL TO
FL180
MIZZI
DELTA ATCAA
FL180 TO FL600
DELTA 3 MOA
3000 AGL TO FL180
ENN
ARUNY
R-2211
FLAKT
BUFLO
YUZTY
N 63°45'00"
W 141°00'00"
W 141°
EIELSON ATCAA
FL180 TO FL600
EIELSON MOA
100 AGL TO FL180
BIG
BUFFALO MOA
300 AGL TO
7000 MSL
DELTA 4 MOA
7000 MSL TO FL180
FOXUB
BEYAR
R-2202
C/D
TEGME
N 63°30'00"
W 144°00'00"
FOX 1 ATCAA
FL180 TO FL600
FOX 1 MOA
5000 AGL TO FL180
DIKEE
SIKKOT
FOX 2 MOA
7000 MSL TO FL180
WELLE
PAXON ATCAA
FL180 TO FL600
N 63°
FOX 3 ATCAA
FL180 TO FL600
N 63°15'00"
W 149°00'00"
N 63°
FOX 3 MOA
5000 AGL TO FL180
USOXY
N 62°15'00"
W 144°00'00"
WAETO
GKN
HOXOE
TKA
CRUZR
N 62°10'00"
W 149°00'00"
LEGEND
ATCAA BOUNDARY
MOA BOUNDARY
RESTRICTED AREA BOUNDARY
FAIRBANKS APPROACH BOUNDARY
RED FLAG
ALASKA
AIRSPACE
INCLUDED ATCAAs
BLAIR, DELTA, EIELSON, FOX 1/3,
PAXON, VIPER AND YUKON 1/2/3/4/5
INCLUDED MOAs
BIRCH, BUFFALO, DELTA 1/2/3/4,
EIELSON, FOX 1/2/3, VIPER B AND
YUKON 1/2/3A/3B/3 HIGH/4/5
DATE MODIFIED: JANUARY 9, 2014

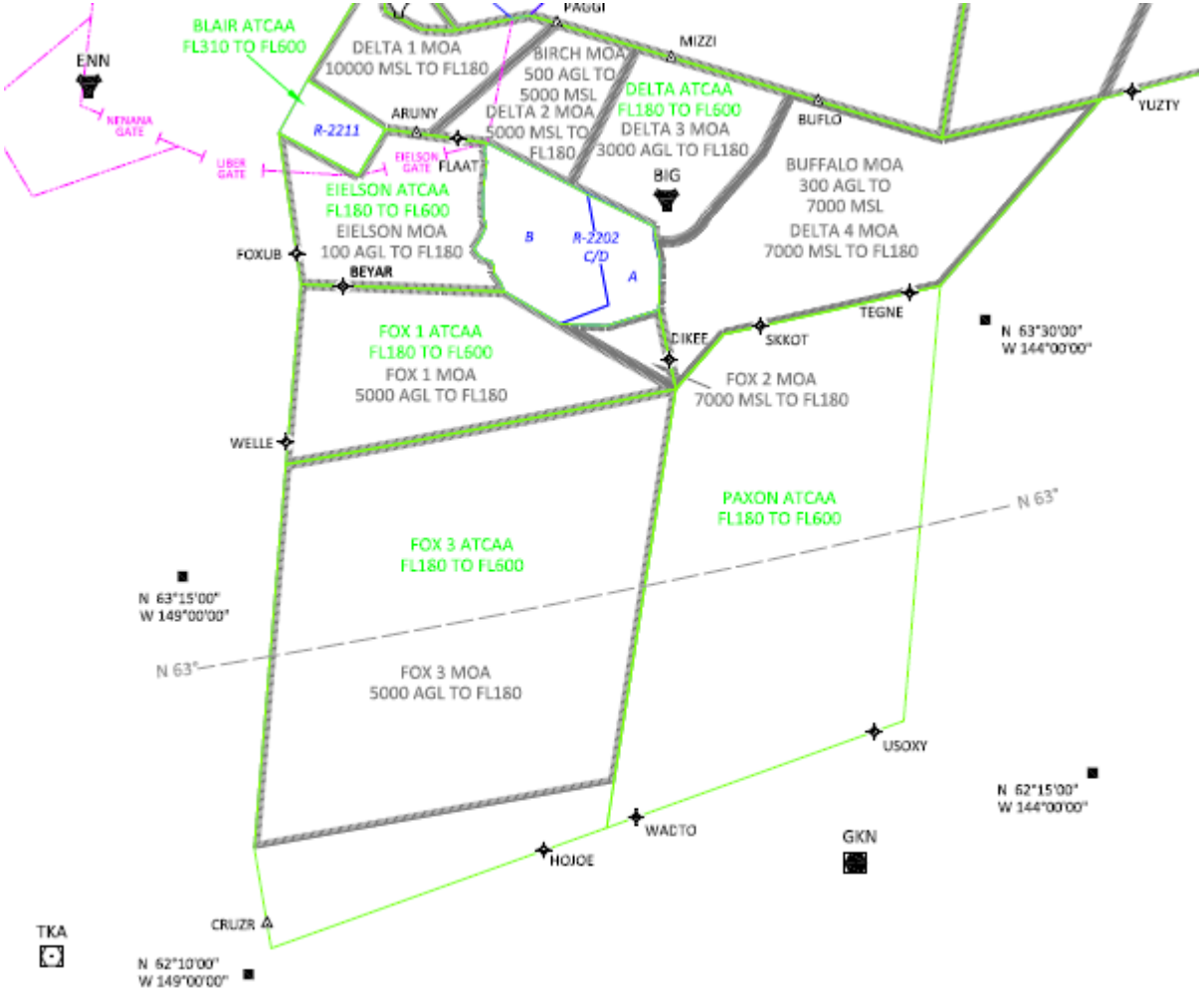
# Anchorage ARTCC (ZAN) Update

## Red Flag Airspace



# Anchorage ARTCC (ZAN) Update

## Red Flag Airspace



# Anchorage ARTCC (ZAN) Update

## Military Exercises

Refer to NOTAMs and FAA's "SUA" website for updated Special Use Airspace information - http://sua.faa.gov

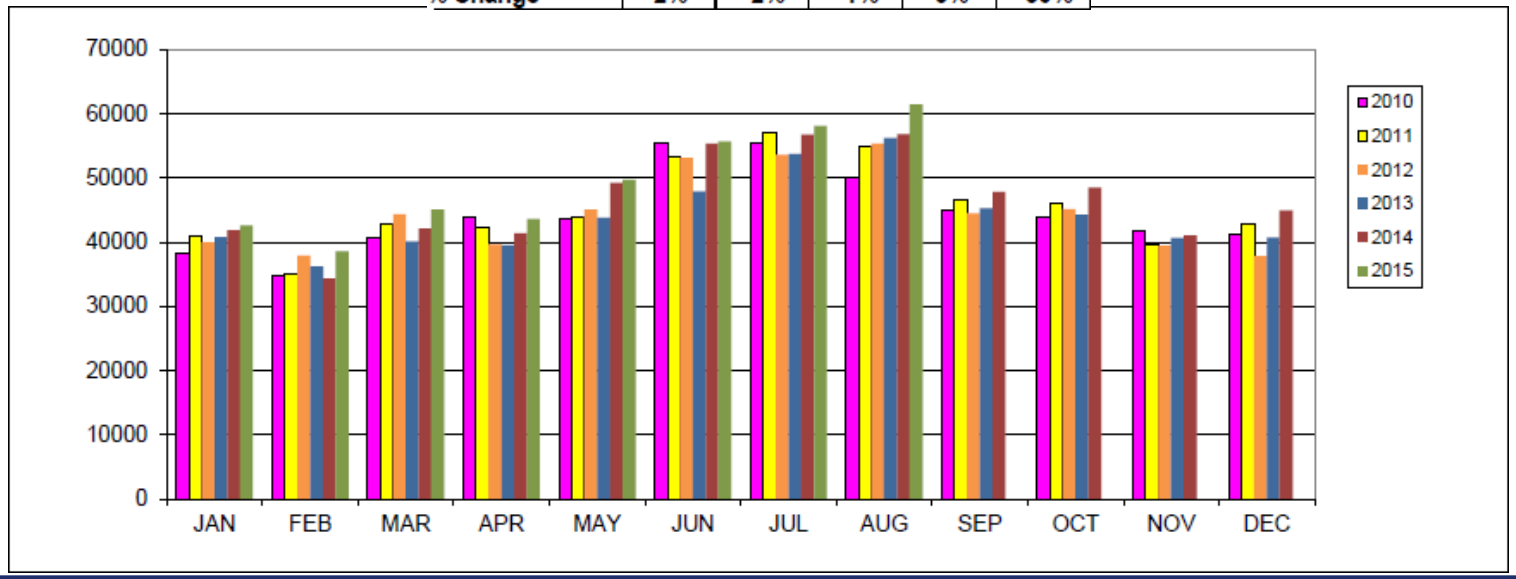
# Anchorage ARTCC (ZAN) Update

- Anchorage ARTCC
- Sector “64”
- New Magadan FIR Entry Fixes
- Oceanic Performance
- Space Launch Activities
- UAS Operations
- Large Scale Military Exercises
- **Traffic Count**

# Anchorage ARTCC (ZAN) Update

## ZAN Traffic Count
## Total Facility

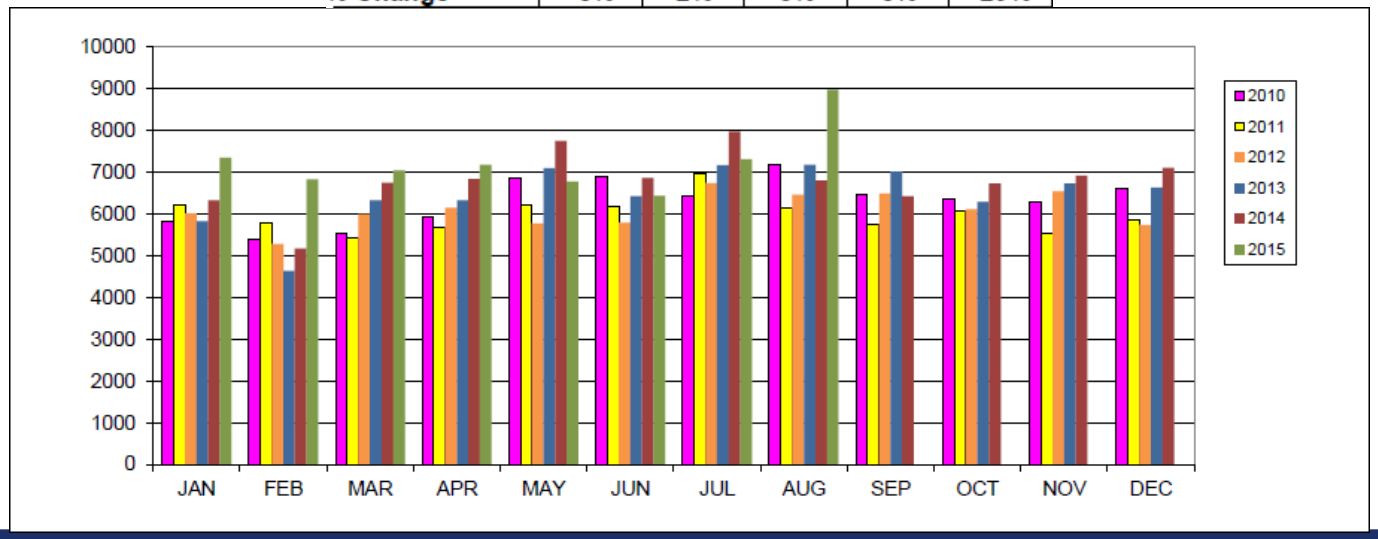
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|
| JAN | 38266 | 40841 | 39982 | 40761 | 41896 | 42631 |
| FEB | 34911 | 35074 | 37909 | 36213 | 34342 | 38544 |
| MAR | 40790 | 42750 | 44344 | 40090 | 42091 | 45089 |
| APR | 43796 | 42285 | 39622 | 39482 | 41358 | 43626 |
| MAY | 43565 | 43866 | 45085 | 43815 | 49224 | 49695 |
| JUN | 55374 | 53225 | 53173 | 47914 | 55353 | 55700 |
| JUL | 55470 | 56989 | 53573 | 53756 | 56752 | 58107 |
| AUG | 50135 | 54995 | 55355 | 56217 | 56797 | 61453 |
| SEP | 45007 | 46635 | 44524 | 45292 | 47812 | |
| OCT | 43825 | 46187 | 45132 | 44277 | 48511 | |
| NOV | 41858 | 39616 | 39457 | 40642 | 41037 | |
| DEC | 41232 | 42907 | 37824 | 40738 | 44914 | |
| **Total** | **534229** | **545370** | **535980** | **529197** | **560087** | **394845** |
| **% Change** | | **2%** | **-2%** | **-1%** | **6%** | **-30%** |



# Anchorage ARTCC (ZAN) Update

## ZAN Traffic Count
## Oceanic

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|
| JAN | 5826 | 6205 | 6016 | 5825 | 6331 | 7344 |
| FEB | 5385 | 5783 | 5281 | 4637 | 5169 | 6829 |
| MAR | 5525 | 5437 | 5986 | 6334 | 6752 | 7045 |
| APR | 5912 | 5684 | 6150 | 6330 | 6842 | 7182 |
| MAY | 6845 | 6207 | 5772 | 7096 | 7752 | 6775 |
| JUN | 6886 | 6199 | 5792 | 6433 | 6864 | 6437 |
| JUL | 6445 | 6984 | 6738 | 7166 | 7977 | 7309 |
| AUG | 7175 | 6161 | 6458 | 7179 | 6803 | 8978 |
| SEP | 6476 | 5752 | 6489 | 7018 | 6430 | |
| OCT | 6353 | 6072 | 6116 | 6291 | 6731 | |
| NOV | 6302 | 5536 | 6540 | 6733 | 6914 | |
| DEC | 6602 | 5859 | 5738 | 6635 | 7107 | |
| **Total** | **75732** | **71879** | **73076** | **77677** | **81672** | **57899** |
| **% Change** | | **-5%** | **2%** | **6%** | **5%** | **-29%** |



# Anchorage ARTCC (ZAN) Update

## ZAN Traffic Count
## NOPAC*

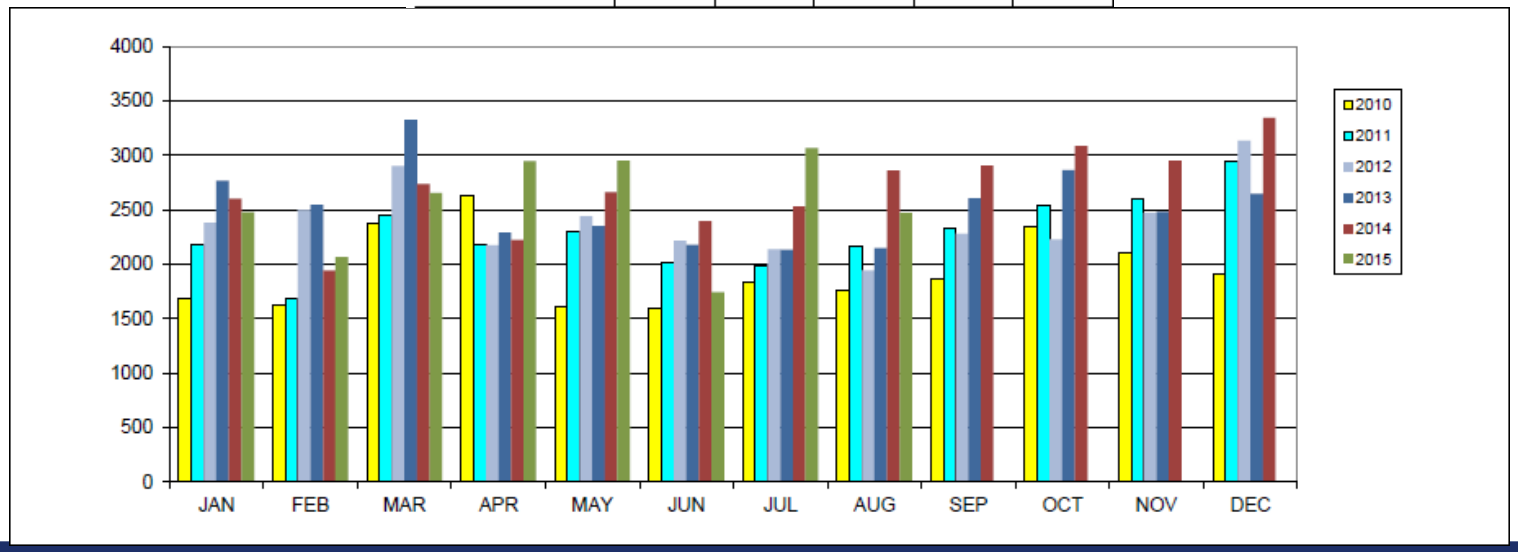
| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | 5122 | 5103 | 5047 | 4769 | 5188 | 5336 | 5354 | 4668 | 4167 | 6163 |
| FEB | 4609 | 5021 | 4381 | 4043 | 4765 | 4925 | 4428 | 3708 | 4288 | 5653 |
| MAR | 6022 | 7632 | 6365 | 4513 | 4682 | 4564 | 4888 | 4896 | 5547 | 5661 |
| APR | 6083 | 6923 | 6107 | 4109 | 4967 | 4908 | 5214 | 5284 | 5780 | 5688 |
| MAY | 5394 | 7224 | 5461 | 4563 | 6094 | 5304 | 4749 | 5938 | 6289 | 5435 |
| JUN | 6088 | 7440 | 4947 | 3958 | 6050 | 5225 | 4853 | 5489 | 5649 | 5533 |
| JUL | 6144 | 7540 | 5583 | 5279 | 5524 | 5947 | 5737 | 6020 | 6409 | 5732 |
| AUG | 6273 | 7584 | 5385 | 5524 | 6192 | 4892 | 5479 | 5991 | 5188 | 8978 |
| SEP | 5772 | 7462 | 5322 | 5147 | 5514 | 4711 | 5316 | 5761 | 5021 | 0 |
| OCT | 5782 | 6750 | 4928 | 5131 | 5291 | 5018 | 5203 | 4887 | 5192 | 0 |
| NOV | 5796 | 6231 | 4600 | 5044 | 5321 | 4363 | 5598 | 5627 | 5673 | 0 |
| DEC | 4933 | 5204 | 4662 | 5354 | 5710 | 4678 | 4588 | 5145 | 5674 | 0 |
| **Total** | **68018** | **80114** | **62788** | **57434** | **65298** | **59871** | **61407** | **63414** | **64877** | **48843** |
| **% Change** | | **18%** | **-22%** | **-9%** | **14%** | **-8%** | **3%** | **3%** | **2%** | **-25%** |

*** "NOPAC" equals "Oceanic" minus "Cross Polar"**

# Anchorage ARTCC (ZAN) Update

## ZAN Traffic Count
## Cross Polar and RFE

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|
| JAN | 1686 | 2188 | 2383 | 2768 | 2605 | 2481 |
| FEB | 1619 | 1690 | 2499 | 2544 | 1943 | 2067 |
| MAR | 2379 | 2453 | 2904 | 3326 | 2738 | 2655 |
| APR | 2630 | 2184 | 2176 | 2294 | 2223 | 2949 |
| MAY | 1614 | 2297 | 2442 | 2351 | 2664 | 2951 |
| JUN | 1598 | 2016 | 2215 | 2179 | 2395 | 1741 |
| JUL | 1841 | 1983 | 2136 | 2134 | 2529 | 3067 |
| AUG | 1761 | 2159 | 1942 | 2148 | 2861 | 2470 |
| SEP | 1870 | 2333 | 2280 | 2608 | 2905 | |
| OCT | 2346 | 2538 | 2225 | 2867 | 3089 | |
| NOV | 2099 | 2603 | 2473 | 2482 | 2951 | |
| DEC | 1908 | 2939 | 3134 | 2647 | 3346 | |
| **Total** | **23351** | **27383** | **28809** | **30348** | **32249** | **20381** |
| **% Increase** | | **17%** | **5%** | **5%** | **6%** | **-37%** |



# Anchorage ARTCC (ZAN) Update

## ZAN Traffic Count
## Cross Polar Distribution

| 2014 | DEVID | | NALIM | | LURUN | | RAMEL | | PINAG | | NIKIN | | ORVIT | | AMATI | | PILUN | | LISKI | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | |
| JAN | 0 | 31 | 0 | 1 | 0 | 40 | 1 | 117 | 0 | 23 | 6 | 112 | 40 | 171 | 10 | 11 | 81 | 134 | 86 | 218 | 1082 |
| FEB | 0 | 25 | 0 | 1 | 0 | 13 | 6 | 53 | 2 | 28 | 11 | 81 | 58 | 153 | 11 | 8 | 97 | 42 | 87 | 205 | 881 |
| MAR | 0 | 26 | 0 | 3 | 2 | 45 | 3 | 107 | 5 | 53 | 4 | 164 | 49 | 158 | 16 | 2 | 118 | 127 | 67 | 256 | 1205 |
| APR | 0 | 8 | 0 | 7 | 3 | 29 | 10 | 122 | 3 | 70 | 8 | 114 | 36 | 235 | 5 | 13 | 99 | 110 | 92 | 98 | 1062 |
| MAY | 0 | 11 | 0 | 3 | 3 | 104 | 20 | 200 | 10 | 67 | 11 | 112 | 43 | 274 | 3 | 18 | 127 | 130 | 150 | 177 | 1463 |
| JUN | 4 | 4 | 5 | 5 | 3 | 62 | 54 | 106 | 23 | 13 | 42 | 54 | 70 | 231 | 9 | 15 | 102 | 156 | 79 | 178 | 1215 |
| JUL | 7 | 7 | 1 | 10 | 16 | 95 | 28 | 222 | 6 | 39 | 10 | 106 | 101 | 270 | 16 | 18 | 214 | 64 | 225 | 113 | 1568 |
| AUG | 4 | 22 | 2 | 4 | 7 | 39 | 94 | 115 | 19 | 54 | 34 | 80 | 81 | 292 | 26 | 29 | 194 | 197 | 116 | 206 | 1615 |
| SEP | 1 | 47 | 0 | 4 | 0 | 78 | 10 | 27 | 4 | 54 | 13 | 162 | 70 | 226 | 22 | 32 | 160 | 127 | 154 | 218 | 1409 |
| OCT | 1 | 29 | 0 | 1 | 4 | 33 | 6 | 99 | 2 | 65 | 4 | 116 | 39 | 292 | 14 | 39 | 135 | 223 | 104 | 333 | 1539 |
| NOV | 8 | 60 | 0 | 7 | 1 | 28 | 7 | 116 | 2 | 35 | 10 | 108 | 53 | 146 | 12 | 14 | 157 | 137 | 80 | 260 | 1241 |
| DEC | 5 | 8 | 0 | 2 | 3 | 33 | 6 | 107 | 2 | 86 | 8 | 90 | 14 | 290 | 8 | 45 | 129 | 204 | 86 | 307 | 1433 |
| TOTAL | 30 | 278 | 8 | 48 | 42 | 599 | 245 | 1391 | 78 | 587 | 161 | 1299 | 654 | 2738 | 152 | 244 | 1613 | 1651 | 1326 | 2569 | 15713 |

SALET effective 12/30/2014 BARIP effective 12/30/2014

| 2015 | DEVID | | NALIM | | LURUN | | RAMEL | | PINAG | | NIKIN | | SALET | | ORVIT | | AMATI | | BARIP | | PILUN | | LISKI | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | |
| JAN | 4 | 43 | 0 | 1 | 1 | 51 | 4 | 126 | 1 | 36 | 7 | 107 | | | 62 | 123 | 19 | 21 | | | 192 | 111 | 101 | 171 | 1181 |
| FEB | 3 | 12 | 0 | 1 | 1 | 25 | 10 | 124 | 10 | 75 | 10 | 118 | | | 29 | 184 | 21 | 23 | | | 162 | 105 | 126 | 137 | 1176 |
| MAR | 1 | 26 | 1 | 2 | 0 | 53 | 8 | 170 | 4 | 56 | 7 | 124 | 5 | 6 | 52 | 197 | 27 | 27 | 23 | 11 | 131 | 148 | 91 | 214 | 1384 |
| APR | 0 | 27 | 0 | 2 | 2 | 43 | 18 | 162 | 3 | 129 | 9 | 95 | 5 | 16 | 39 | 170 | 44 | 19 | 7 | 12 | 69 | 224 | 65 | 334 | 1494 |
| MAY | 1 | 21 | 0 | 0 | 2 | 35 | 10 | 103 | 9 | 52 | 32 | 69 | 13 | 11 | 83 | 171 | 47 | 17 | 20 | 5 | 125 | 168 | 121 | 225 | 1340 |
| JUN | 0 | 0 | 1 | 6 | 2 | 83 | 1 | 136 | 4 | 56 | 11 | 38 | 5 | 10 | 38 | 104 | 17 | 12 | 10 | 9 | 71 | 112 | 73 | 105 | 904 |
| JUL | 2 | 22 | 2 | 7 | 16 | 126 | 39 | 157 | 7 | 87 | 18 | 62 | 15 | 16 | 87 | 229 | 36 | 26 | 18 | 12 | 123 | 127 | 123 | 220 | 1577 |
| AUG | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| SEP | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| OCT | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| NOV | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| DEC | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| TOTAL | 11 | 151 | 4 | 19 | 24 | 416 | 90 | 978 | 38 | 491 | 94 | 613 | 43 | 59 | 390 | 1178 | 211 | 145 | 78 | 49 | 873 | 995 | 700 | 1406 | 9056 |

# Anchorage ARTCC (ZAN) Update

## ZAN Traffic Count - RFE Distribution

| 2014 | FRENK | | KUTAL | | VALDA | | ERNIK | | RUSOR | | BESAT | | BAMOK | | KOKES | | LUMES | | KUNAD | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | |
| JAN | 28 | 70 | 2 | 161 | 14 | 549 | 1 | 300 | 20 | 44 | 17 | 199 | 16 | 15 | 1 | 37 | 0 | 49 | 0 | 0 | 1523 |
| FEB | 24 | 93 | 7 | 77 | 15 | 406 | 2 | 109 | 18 | 15 | 26 | 160 | 14 | 20 | 3 | 31 | 0 | 39 | 0 | 3 | 1062 |
| MAR | 12 | 104 | 10 | 137 | 10 | 601 | 0 | 220 | 16 | 23 | 36 | 241 | 15 | 7 | 0 | 48 | 0 | 50 | 0 | 2 | 1532 |
| APR | 33 | 66 | 11 | 44 | 22 | 485 | 3 | 101 | 20 | 15 | 69 | 189 | 7 | 16 | 0 | 32 | 0 | 35 | 0 | 3 | 1151 |
| MAY | 41 | 68 | 12 | 110 | 18 | 467 | 3 | 111 | 37 | 3 | 78 | 117 | 24 | 17 | 1 | 37 | 0 | 55 | 0 | 2 | 1201 |
| JUN | 21 | 118 | 5 | 109 | 33 | 464 | 10 | 100 | 34 | 15 | 93 | 127 | 21 | 11 | 0 | 5 | 0 | 10 | 0 | 4 | 1180 |
| JUL | 35 | 36 | 19 | 33 | 16 | 401 | 10 | 71 | 41 | 10 | 96 | 116 | 24 | 15 | 4 | 12 | 0 | 16 | 0 | 6 | 961 |
| AUG | 26 | 101 | 11 | 64 | 7 | 464 | 6 | 142 | 33 | 29 | 95 | 182 | 49 | 18 | 0 | 10 | 0 | 9 | 0 | 0 | 1246 |
| SEP | 38 | 113 | 26 | 62 | 17 | 454 | 6 | 204 | 35 | 23 | 87 | 306 | 39 | 27 | 3 | 40 | 0 | 16 | 0 | 0 | 1496 |
| OCT | 28 | 101 | 24 | 158 | 12 | 595 | 9 | 170 | 40 | 19 | 93 | 183 | 57 | 18 | 2 | 26 | 0 | 15 | 0 | 0 | 1550 |
| NOV | 23 | 114 | 3 | 134 | 11 | 680 | 9 | 296 | 28 | 35 | 88 | 188 | 37 | 17 | 4 | 22 | 0 | 18 | 0 | 3 | 1710 |
| DEC | 50 | 83 | 9 | 198 | 12 | 755 | 4 | 322 | 18 | 43 | 51 | 236 | 40 | 21 | 1 | 18 | 0 | 37 | 0 | 15 | 1913 |
| TOTAL | 359 | 1067 | 139 | 1287 | 187 | 6321 | 63 | 2146 | 340 | 274 | 829 | 2244 | 343 | 202 | 19 | 318 | 0 | 349 | 0 | 18 | **16525** |

| 2015 | FRENK | | KUTAL | | VALDA | | ERNIK | | RUSOR | | BESAT | | BAMOK | | KOKES | | LUMES | | KUNAD | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | E | W | |
| JAN | 22 | 95 | 6 | 91 | 24 | 553 | 4 | 174 | 21 | 32 | 52 | 97 | 45 | 12 | 1 | 16 | 0 | 43 | 0 | 22 | 1310 |
| FEB | 29 | 41 | 4 | 62 | 17 | 414 | 5 | 120 | 10 | 7 | 34 | 54 | 31 | 13 | 0 | 10 | 0 | 30 | 0 | 7 | 888 |
| MAR | 23 | 79 | 13 | 82 | 15 | 604 | 10 | 203 | 29 | 14 | 37 | 76 | 37 | 12 | 1 | 5 | 0 | 24 | 0 | 7 | 1271 |
| APR | 30 | 94 | 11 | 209 | 17 | 695 | 11 | 174 | 21 | 15 | 39 | 104 | 21 | 6 | 0 | 4 | 0 | 4 | 0 | 2 | 1457 |
| MAY | 20 | 144 | 4 | 128 | 27 | 677 | 4 | 243 | 19 | 24 | 72 | 142 | 46 | 13 | 0 | 17 | 0 | 18 | 0 | 13 | 1611 |
| JUN | 13 | 28 | 12 | 27 | 19 | 307 | 4 | 49 | 19 | 24 | 72 | 142 | 46 | 13 | 0 | 18 | 0 | 13 | 0 | 0 | 806 |
| JUL | 11 | 119 | 20 | 58 | 26 | 671 | 6 | 205 | 37 | 67 | 82 | 88 | 61 | 4 | 2 | 18 | 0 | 14 | 0 | 1 | 1490 |
| AUG | 10 | 80 | 14 | 29 | 25 | 603 | 8 | 69 | 35 | 43 | 98 | 124 | 59 | 13 | 3 | 17 | 0 | 31 | 0 | 1 | 1262 |
| SEP | | | | | | | | | | | | | | | | | | | | | 0 |
| OCT | | | | | | | | | | | | | | | | | | | | | 0 |
| NOV | | | | | | | | | | | | | | | | | | | | | 0 |
| DEC | | | | | | | | | | | | | | | | | | | | | 0 |
| TOTAL | 158 | 680 | 84 | 686 | 170 | 4524 | 52 | 1237 | 191 | 226 | 486 | 827 | 346 | 86 | 7 | 105 | 0 | 177 | 0 | 53 | **10095** |

# Anchorage ARTCC (ZAN) Update

## Anchorage ARTCC Contact Information

Federal Aviation Administration

**Steve Kessler**
Support Manager,
Airspace and Procedures

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Anchorage, AK 99506
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# Questions?