



Federal Aviation Administration  
Western Service Center  
1601 Lind Ave. SW  
Renton, WA 98057

**Notice of Proposal to Establish Special Use Airspace**  
**Oliktok North Warning Area**  
**Oliktok, AK**  
**Docket 13-AAL-8NR**

**SUMMARY:** The Federal Aviation Administration (FAA) is considering a proposal from the U.S. Department of Energy (DOE) to establish Special Use Airspace, a Warning Area, over the Arctic Ocean north of Alaska. This proposal was previously circulated in August 2013 for 45 days; however, due to a modification to the airspace to include revised boundaries and sectorization the proposal is being recirculated to the public for an additional 45 days.

**BACKGROUND:** The purpose of the proposed Warning Area is to accommodate climate-related research on arctic clouds and their influence on the rate of sea ice retreat. The research to be conducted within the proposed Warning Area will involve aviation-related activities including:

1. Firing (or drop, if from high altitude) of sensor-equipped ice-penetrating projectiles downwards from aircraft. The sensors will measure the thickness and mechanical properties of the sea ice, as well as make measurements in the water below the ice layer, and radio the results back to the aircraft via an antenna left at the ice surface.
2. Deployment of upward-directed sensor-equipped sounding rockets from the surface and from aircraft. The sensor packages will return to the surface by parachute, telemetering data during descent.
3. Deployment of instrumented tethered balloons within cloud from icebreakers (ships for operation in ice-covered waters) or other ships of opportunity. The attached balloon-borne sensor packages are designed to continually generate vertical profiles of the atmosphere and cloud properties as the balloons are cycled vertically through cloud layers. The continual vertical altitude cycling up to cloud top (or 10,000 ft., whichever is lower) precludes lighting and marking of the balloons and their tether lines at the 50-foot interval normally required. Since the balloons will operate primarily in the immediate vicinity and within cloud, marking and lighting would be ineffective as a warning to non-participating aircraft in any case

The need is to investigate the character and influence of clouds on the sea ice as a function of latitude from near the coast to near the North Pole. The issue is important to the U.S. Global Change Research Program, a multi-agency research effort which is coordinated with

international climate change research programs. There is no existing Warning Area out over the Arctic Ocean that could serve this purpose.

Activation of the Warning Area will be coordinated with other potential users of the airspace. This is the same procedure as is currently being followed for activation of restricted airspace R-2204 at Oliktok Point. This coordination is in addition to the Notices to Airmen (NOTAMs) issued by Anchorage Air Route Traffic Control Center (ARTCC).

**PROPOSAL:**

**Oliktok Warning Area Low - A:**

**Boundaries:** Beginning at latitude 70° 47' 00" N, longitude 150° 58' 15" W;  
to latitude 71° 37' 00" N, longitude 151° 01' 03" W;  
to latitude 71° 37' 00" N, longitude 148° 42' 04" W;  
to latitude 70° 47' 00" N, longitude 148° 44' 52" W;  
to the point of beginning

**Altitudes:** Surface up to but not including 2,000 feet Mean Sea Level (MSL)

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area High - A:**

**Boundaries:** Beginning at latitude 70° 47' 00" N, longitude 150° 58' 15" W;  
to latitude 71° 37' 00" N, longitude 151° 01' 03" W;  
to latitude 71° 37' 00" N, longitude 148° 42' 04" W;  
to latitude 70° 47' 00" N, longitude 148° 44' 52" W;  
to the point of beginning

**Altitudes:** 2,000 feet MSL up to but not including 10,000 feet MSL

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area Low - B:**

**Boundaries:** Beginning at latitude 71° 37' 00" N, longitude 151° 01' 03" W;  
to latitude 72° 27' 00" N, longitude 151° 04' 09" W;  
to latitude 72° 27' 00" N, longitude 148° 39' 03" W;  
to latitude 71° 37' 00" N, longitude 148° 42' 04" W;  
to the point of beginning

**Altitudes:** Surface up to but not including 2,000 feet Mean Sea Level (MSL)

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area High - B:**

**Boundaries:** Beginning at latitude 71° 37' 00" N, longitude 151° 01' 03" W;  
to latitude 72° 27' 00" N, longitude 151° 04' 09" W;  
to latitude 72° 27' 00" N, longitude 148° 39' 03" W;  
to latitude 71° 37' 00" N, longitude 148° 42' 04" W;  
to the point of beginning

**Altitudes:** 2,000 feet MSL up to but not including 10,000 feet MSL

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area Low - C:**

**Boundaries:** Beginning at latitude 72° 27' 00" N, longitude 151° 04' 09" W;  
to latitude 73° 17' 00" N, longitude 151° 07' 22" W;  
to latitude 73° 17' 00" N, longitude 148° 35' 45" W;  
to latitude 72° 27' 00" N, longitude 148° 39' 03" W;  
to the point of beginning

**Altitudes:** Surface up to but not including 2,000 feet Mean Sea Level (MSL)

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area High - C:**

**Boundaries:** Beginning at latitude 72° 27' 00" N, longitude 151° 04' 09" W;  
to latitude 73° 17' 00" N, longitude 151° 07' 22" W;  
to latitude 73° 17' 00" N, longitude 148° 35' 45" W;  
to latitude 72° 27' 00" N, longitude 148° 39' 03" W;  
to the point of beginning

**Altitudes:** 2,000 feet MSL up to but not including 10,000 feet MSL

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area Low - D:**

**Boundaries:** Beginning at latitude 73° 17' 00" N, longitude 151° 07' 22" W;  
to latitude 74° 07' 00" N, longitude 151° 10' 58" W;  
to latitude 74° 07' 00" N, longitude 148° 32' 10" W;  
to latitude 73° 17' 00" N, longitude 148° 35' 45" W;  
to the point of beginning

**Altitudes:** Surface up to but not including 2,000 feet Mean Sea Level (MSL)

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area High - D:**

**Boundaries:** Beginning at latitude 73° 17' 00" N, longitude 151° 07' 22" W;  
to latitude 74° 07' 00" N, longitude 151° 10' 58" W;  
to latitude 74° 07' 00" N, longitude 148° 32' 10" W;  
to latitude 73° 17' 00" N, longitude 148° 35' 45" W;  
to the point of beginning

**Altitudes:** 2,000 feet MSL up to but not including 10,000 feet MSL

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area Low - E:**

**Boundaries:** Beginning at latitude 74° 07' 00" N, longitude 151° 10' 58" W;  
to latitude 75° 47' 00" N, longitude 151° 19' 15" W;  
to latitude 75° 47' 00" N, longitude 148° 23' 51" W;  
to latitude 74° 07' 00" N, longitude 148° 32' 10" W;  
to the point of beginning

**Altitudes:** Surface up to but not including 2,000 feet Mean Sea Level (MSL)

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all

seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area High - E:**

**Boundaries:** Beginning at latitude 74° 07' 00" N, longitude 151° 10' 58" W;  
to latitude 75° 47' 00" N, longitude 151° 19' 15" W;  
to latitude 75° 47' 00" N, longitude 148° 23' 51" W;  
to latitude 74° 07' 00" N, longitude 148° 32' 10" W;  
to the point of beginning

**Altitudes:** 2,000 feet MSL up to but not including 10,000 feet MSL

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area Low - F:**

**Boundaries:** Beginning at latitude 75° 47' 00" N, longitude 151° 19' 15" W;  
to latitude 75° 27' 00" N, longitude 151° 29' 29" W;  
to latitude 75° 27' 00" N, longitude 148° 13' 38" W;  
to latitude 75° 47' 00" N, longitude 148° 23' 51" W;  
to the point of beginning

**Altitudes:** Surface up to but not including 2,000 feet Mean Sea Level (MSL)

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area High - F:**

**Boundaries:** Beginning at latitude 75° 47' 00" N, longitude 151° 19' 15" W;  
to latitude 75° 27' 00" N, longitude 151° 29' 29" W;  
to latitude 75° 27' 00" N, longitude 148° 13' 38" W;  
to latitude 75° 47' 00" N, longitude 148° 23' 51" W;  
to the point of beginning

**Altitudes:** 2,000 feet MSL up to but not including 10,000 feet MSL

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area Low - G:**

**Boundaries:** Beginning at latitude 75° 27' 00" N, longitude 151° 29' 29" W;  
to latitude 79° 07' 00" N, longitude 151° 42' 27" W;  
to latitude 79° 07' 00" N, longitude 148° 00' 40" W;  
to latitude 77° 27' 00" N, longitude 148° 13' 38" W;  
to the point of beginning

**Altitudes:** Surface up to but not including 2,000 feet Mean Sea Level (MSL)

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area High - G:**

**Boundaries:** Beginning at latitude 75° 27' 00" N, longitude 151° 29' 29" W;  
to latitude 79° 07' 00" N, longitude 151° 42' 27" W;

to latitude 79° 07' 00" N, longitude 148° 00' 40" W;  
to latitude 77° 27' 00" N, longitude 148° 13' 38" W;  
to the point of beginning

**Altitudes:** 2,000 feet MSL up to but not including 10,000 feet MSL

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area Low - H:**

**Boundaries:** Beginning at latitude 79° 07' 00" N, longitude 151° 42' 27" W;  
to latitude 82° 00' 00" N, longitude 152° 15' 54" W;  
to latitude 82° 00' 00" N, longitude 147° 27' 12" W;  
to latitude 79° 07' 00" N, longitude 148° 00' 40" W;  
to the point of beginning

**Altitudes:** Surface up to but not including 2,000 feet Mean Sea Level (MSL)

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**Oliktok Warning Area High - H:**

**Boundaries:** Beginning at latitude 79° 07' 00" N, longitude 151° 42' 27" W;  
to latitude 82° 00' 00" N, longitude 152° 15' 54" W;  
to latitude 82° 00' 00" N, longitude 147° 27' 12" W;  
to latitude 79° 07' 00" N, longitude 148° 00' 40" W;  
to the point of beginning

**Altitudes:** 2,000 feet MSL up to but not including 10,000 feet MSL

**Times of Use:** Times of use will be by NOTAM and vary according to the specific platforms employed and specific goals of each experiment. The request is for 90 days (2,160 hours) per year, spread over all seasons. Use will be weather dependent, with high wind periods being avoided.

**Controlling Agency:** FAA, Anchorage Air Route Traffic Control Center

**Using Agency:** U.S. Department of Energy

**MISCELLANEOUS:** No restrictions will be imposed on nonparticipating Visual Flight Rules (VFR) aircraft. VFR pilots are expected to exercise vigilance while transiting the Warning Areas. They are strongly encouraged to contact the nearest flight service station and request the latest NOTAM information, or contact Anchorage ARTCC to ascertain the status of the Warning Areas.

**COMMENTS INVITED:** The purpose of this notice is to invite interested persons to submit in writing any comments they may have regarding the overall aeronautical aspects of the proposal presented in this notice. To be eligible for consideration, comments must be relevant to the effect the proposal will have upon the efficient and navigable use of airspace. Persons wishing to comment should submit correspondence to the address or email listed below setting forth valid aeronautical reasons.

Department of Transportation  
Federal Aviation Administration  
Manager, Operations Support Group, Western Service Center  
1601 Lind Ave SW  
Renton, WA 98057

[7-ANM-OSG-Public-Notice-Inbox@faa.gov](mailto:7-ANM-OSG-Public-Notice-Inbox@faa.gov)

Replies received no later than AUG 13 2014 will be considered before final action is taken on this proposal. In your reply, please refer to the Aeronautical Study Number: **13-AAL-8NR**.

**NOTICE DISTRIBUTION:** Persons interested in being placed on a mailing list for future notices should submit such requests to the Federal Aviation Administration at the address listed above.

**FOR FURTHER INFORMATION, CONTACT:**

Department of Transportation  
Federal Aviation Administration  
Operations Support Group, Western Service Center

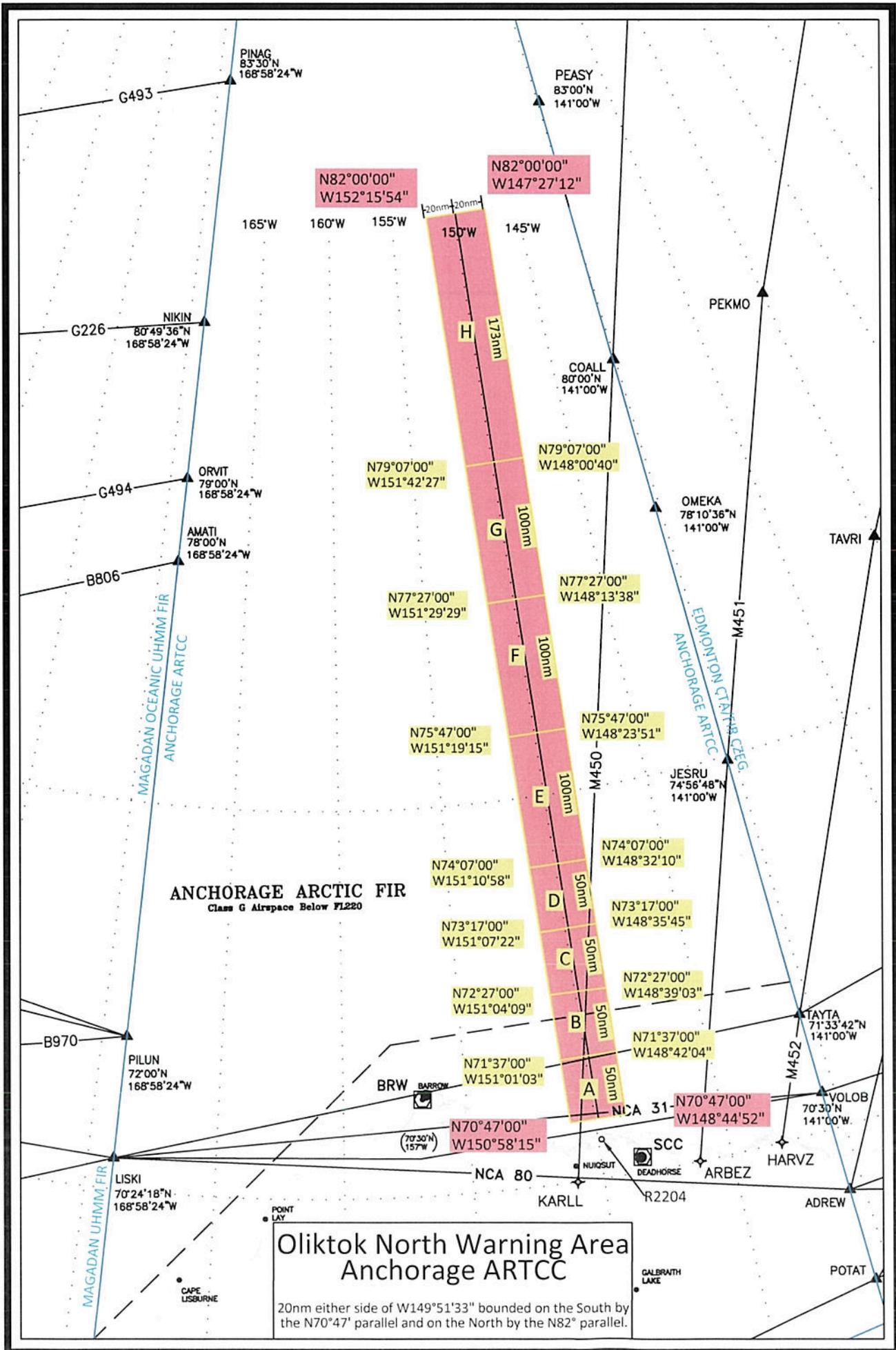
Attn: Michele Cruz, Contract Support Specialist  
1601 Lind Ave S.W.  
Renton, WA 98057  
(425) 203-4562

Issued in Seattle, Washington on: 6/19/14

  
Clark Desing  
Manager, Operations Support Group  
Western Service Center

Attachment: Proposed Oliktok Warning Area

cc: AJV-W2; ANM-900; Anchorage ARTCC; Alaska State Aviation Director; SEE Distribution List



### Oliktok North Warning Area Anchorage ARTCC

20nm either side of W149°51'33" bounded on the South by the N70°47'00" parallel and on the North by the N82° parallel.