

Route Standard Briefing at Dec 29, 1949Z for N614SB KOSU to KBKL



***** KOSU (Departure) Closest Terminal Weather *****

METAR KOSU 291853Z COR Ohio State University, Columbus, OH (KOSU). Dec 29, 1853Z, Corrected. Wind from 260° at 16 knots with gusts to 27 knots, 10 statute miles visibility, Few clouds at 2,400 feet, Temperature 5°C, Dewpoint -2°C, Altimeter is 29.80. Remarks: automated station with precipitation discriminator peak wind from 260° at 30 knots at 1821Z sea level pressure 1009.5 hectopascals hourly temp 5.0°C dewpoint -1.7°C

METAR KOSU 291753Z Ohio State University, Columbus, OH (KOSU). Dec 29, 1753Z. Wind from 270° at 16 knots with gusts to 24 knots, 10 statute miles visibility, Few clouds at 2,500 feet, Temperature 3°C, Dewpoint -1°C, Altimeter is 29.81. Remarks: automated station with precipitation discriminator peak wind from 280° at 26 knots at 1731Z sea level pressure 1009.9 hectopascals hourly temp 3.3°C dewpoint -1.1°C 6-hour max temp 4.4°C 6-hour min temp 0.6°C 3-hour atmospheric pressure steady or increasing, then decreasing; or decreasing then decreasing more rapidly by 0.4 hectopascals

METAR KOSU 291653Z Ohio State University, Columbus, OH (KOSU). Dec 29, 1653Z. Wind from 260° at 12 knots, 10 statute miles visibility, Ceiling is Broken at 2,200 feet, Overcast at 2,900 feet, Temperature 3°C, Dewpoint -1°C, Altimeter is 29.82. Remarks: automated station with precipitation discriminator sea level pressure 1010.5 hectopascals hourly temp 2.8°C dewpoint -1.1°C

TAF for KOSU is not available, refer to the Area Forecast

***** KOSU (Departure) NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

==== Apron NOTAMs ====

!OSU 11/009 Ohio State University, Columbus, OH (KOSU) Apron east ramp W 400 feet closed Nov 29, 2016 2200Z to Jun 23, 2017 2100Z

==== Obstruction NOTAMs ====

!OSU 12/030 Ohio State University, Columbus, OH (KOSU) Obstruction tower light (Antenna Structure Registration 1239194) 40° 10' 43.80" North 083° 00' 56.00" West (6.5 Nautical miles north-north-east OSU) 1253.0 Feet (294.9 Feet above ground level) out of service Dec 18, 2016 1302Z to Jan 18, 2017 0802Z Estimated

!OSU 11/003 Ohio State University, Columbus, OH (KOSU) Obstruction tower light (Antenna

Structure Registration 1054358) 40° 09' 33.00" North 082° 55' 23.00" West (8.4 Nautical miles NE OSU) 2027.9 Feet (1107.0 Feet above ground level) out of service Nov 04, 2016 2312Z to Jan 03, 2017 2312Z

***** KBKL (Destination) Closest Terminal Weather *****

METAR KBKL 291853Z Burke Lakefront, Cleveland, OH (KBKL). Dec 29, 1853Z. Wind from 250°; at 20 knots with gusts to 26 knots, 9 statute miles visibility, Ceiling is Overcast at 4,700 feet, Temperature 4°C, Dewpoint -2°C, Altimeter is 29.68. Remarks: automated station with precipitation discriminator peak wind from 250°; at 27 knots at 1827Z snow ended 48 minutes past the hour sea level pressure 1005.6 hectopascals less than 0.01 inches precipitation (water equivalent) in past hour hourly temp 3.9°C dewpoint -2.2°C

METAR KBKL 291753Z Burke Lakefront, Cleveland, OH (KBKL). Dec 29, 1753Z. Light Snow, Wind from 250°; at 17 knots with gusts to 29 knots, 9 statute miles visibility, Ceiling is Overcast at 5,000 feet, Temperature 3°C, Dewpoint -2°C, Altimeter is 29.68. Remarks: automated station with precipitation discriminator peak wind from 260°; at 29 knots at 1709Z sea level pressure 1005.6 hectopascals less than 0.01 inches precipitation (water equivalent) in past hour trace of precipitation past 6 hours hourly temp 3.3°C dewpoint -1.7°C 6-hour max temp 3.3°C 6-hour min temp 2.2°C 3-hour atmospheric pressure steady or increasing, then decreasing; or decreasing then decreasing more rapidly by 0.3 hectopascals

METAR KBKL 291653Z Burke Lakefront, Cleveland, OH (KBKL). Dec 29, 1653Z. Light Snow, Wind from 250°; at 20 knots with gusts to 25 knots, 10 statute miles visibility, Scattered Clouds at 2,600 feet, Ceiling is Broken at 3,800 feet, Overcast at 5,500 feet, Temperature 3°C, Dewpoint -2°C, Altimeter is 29.69. Remarks: automated station with precipitation discriminator peak wind from 240°; at 28 knots at 1621Z snow began 31 minutes past the hour sea level pressure 1006.0 hectopascals less than 0.01 inches precipitation (water equivalent) in past hour hourly temp 2.8°C dewpoint -1.7°C

TAF for KBKL is not available, refer to the Area Forecast

***** KBKL (Destination) NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

==== Obstruction NOTAMs ====

!BKL 12/137 Burke Lakefront, Cleveland, OH (KBKL) Obstruction tower light (Antenna Structure Registration 1219643) 41° 29' 13.20" North 081° 41' 01.10" West (1.9 Nautical miles S BKL) 1083.0 Feet (500.0 Feet above ground level) out of service Dec 28, 2016 2230Z to Jan 28, 2017 2230Z

!BKL 12/136 Burke Lakefront, Cleveland, OH (KBKL) Obstruction tower light (Antenna Structure Registration 1027997) 41° 31' 54.80" North 081° 38' 04.20" West (2.3 Nautical miles east-north-east BKL) 761.8 Feet (134.8 Feet above ground level) out of service Dec 25, 2016 1533Z to Jan 09, 2017 1532Z

!BKL 04/031 Burke Lakefront, Cleveland, OH (KBKL) Obstruction crane (Aeronautical Study Number 2016-above ground level-4496-OE) 413018N0813713W (2.9 Nautical miles east-south-east BKL) 901 feet (225FT above ground level) flagged and lighted Apr 28, 2016 1000Z to Mar 25, 2017 2000Z

===== FDC NOTAMs =====

!FDC 6/6883 KBKL IAP BURKE LAKEFRONT, CLEVELAND, OH. RNAV (GPS) RWY 24R, ORIG... LPV DA CAT A/B 1234/HATH 652, VIS CAT A/B 1 3/4 **LPV DA CAT C/D 1169/HATH 587, VIS CAT C/D 1 5/8. CHANGE INOPERATIVE MALSR NOTE TO READ: FOR INOPERATIVE MALSR, INCREASE LPV CAT A/B/C VISIBILITY TO 2 1/2 MILE, AND CAT D TO 3 MILE. INCREASE ** LPV CAT C/D VISIBILITY TO 2 MILES AND INCREASE LNAV CAT A/B VISIBILITY TO 1 1/2 MILES. 12 NOV 23:00 2016 UNTIL 24 JUN 23:00 2017 ESTIMATED. CREATED: 12 NOV 23:00 2016

!FDC 6/6877 KBKL IAP BURKE LAKEFRONT, CLEVELAND, OH. ILS OR LOC RWY 24R, AMDT 1... S-ILS 24R DA 982/HATH 400 ALL CATS, VIS 1 ALL CATS. CHANGE INOPERATIVE MALSR NOTE TO READ: FOR INOPERATIVE MALSR, INCREASE S-ILS 24R ALL CATS VISIBILITY TO 1 3/8 MILE. 12 NOV 22:59 2016 UNTIL 24 JUN 22:59 2017 ESTIMATED. CREATED: 12 NOV 22:59 2016

***** KCLE (Alternate 1) Closest Terminal Weather *****

METAR KCLE 291851Z Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 29, 1851Z. Wind from 270° at 18 knots with gusts to 23 knots, 10 statute miles visibility, Ceiling is Broken at 3,600 feet, Temperature 4°C, Dewpoint -4°C, Altimeter is 29.72.

METAR KCLE 291751Z Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 29, 1751Z. Wind from 250° at 16 knots with gusts to 24 knots, 10 statute miles visibility, Few clouds at 2,600 feet, Ceiling is Overcast at 4,800 feet, Temperature 4°C, Dewpoint -3°C, Altimeter is 29.72. Remarks: automated station with precipitation discriminator peak wind from 250° at 27 knots at 1719Z sea level pressure 1007.0 hectopascals hourly temp 3.9°C dewpoint -2.8°C 6-hour max temp 3.9°C 6-hour min temp 2.2°C 3-hour atmospheric pressure steady or increasing, then decreasing; or decreasing then decreasing more rapidly by 0.1 hectopascals

SPECI KCLE 291738Z Special, Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 29, 1738Z. Wind from 250° at 14 knots with gusts to 25 knots, 10 statute miles visibility, Scattered Clouds at 2,600 feet, Ceiling is Broken at 3,500 feet, Overcast at 4,800 feet, Temperature 3°C, Dewpoint -3°C, Altimeter is 29.72. Remarks: automated station

with precipitation discriminator peak wind from 250° at 27 knots at 1719Z hourly temp 3.3°C dewpoint -2.8°C

METAR KCLE 291651Z Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 29, 1651Z. Wind from 250° at 16 knots, 10 statute miles visibility, Scattered Clouds at 2,300 feet, Ceiling is Broken at 2,900 feet, Overcast at 4,800 feet, Temperature 3°C, Dewpoint -3°C, Altimeter is 29.73. Remarks: automated station with precipitation discriminator sea level pressure 1007.2 hectopascals hourly temp 2.8°C dewpoint -2.8°C

SPECI KCLE 270115Z Special, Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 27, 0115Z. Light Rain, Wind from 260° at 16 knots with gusts to 27 knots, 5 statute miles visibility, Few clouds at 800 feet, Ceiling is Broken at 3,700 feet, Overcast at 4,700 feet, Temperature 13°C, Dewpoint 10°C, Altimeter is 29.92. Remarks: automated station with precipitation discriminator peak wind from 270° at 29 knots at 0053Z wind shifted at 0038Z 0.18 inches precipitation (water equivalent) in past hour hourly temp 12.8°C dewpoint 10.0°C

Cleveland-Hopkins International, Cleveland, OH (KCLE). Issued Dec 29, 1738Z, valid from Dec 29, 1800Z until Dec 31, 0000Z, Wind from 250° at 15 knots with gusts to 25 knots, greater than 6 statute miles visibility, Ceiling is Broken at 2,500 feet

From Dec 30, 0000Z, Wind from 260° at 20 knots with gusts to 30 knots, 3 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

Temporary between Dec 30, 0100Z and Dec 30, 0400Z, 1 statute mile visibility, Light Snow and Blowing Snow, Ceiling is Overcast at 1,500 feet

From Dec 30, 0400Z, Wind from 270° at 15 knots with gusts to 25 knots, 5 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

From Dec 30, 1000Z, Wind from 270° at 15 knots with gusts to 25 knots, 2 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

From Dec 30, 1400Z, Wind from 280° at 15 knots with gusts to 25 knots, 5 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet.

***** KCLE (Alternate 1) NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

==== Apron NOTAMs ====

!CLE 07/204 Cleveland-Hopkins International, Cleveland, OH (KCLE) Apron hold pad 3 non movement area Jul 10, 2016 1522Z-permanent

==== Taxiway NOTAMs ====

!CLE 07/203 Cleveland-Hopkins International, Cleveland, OH (KCLE) Taxiway Q non-movement area Jul 10, 2016 1515Z-permanent

!CLE 07/202 Cleveland-Hopkins International, Cleveland, OH (KCLE) Taxiway K1 non-movement area Jul 10, 2016 1514Z-permanent

==== Obstruction NOTAMs ====

!CLE 12/915 Cleveland-Hopkins International, Cleveland, OH (KCLE) Obstruction tower light (Antenna Structure Registration 1050656) 41° 22' 18.00" North 081° 43' 03.00" West (6.5 Nautical miles east-south-east CLE) 1419.0 Feet (311.0 Feet above ground level) out of service Dec 28, 2016 1932Z to Jan 12, 2017 1931Z

!CLE 12/490 Cleveland-Hopkins International, Cleveland, OH (KCLE) Obstruction tower light (Antenna Structure Registration 1035491) 41° 18' 53.10" North 081° 45' 33.40" West (7.1 Nautical mile southeast CLE) 1158.8 Feet (258.9 Feet above ground level) out of service Dec 16, 2016 0812Z to Dec 31, 2016 0500Z

!CLE 11/069 Cleveland-Hopkins International, Cleveland, OH (KCLE) Obstruction stack (Aeronautical Study Number 2014-above ground level-13448-OE) 412445N0814934W (1.0 Nautical miles NE CLE) 938 feet (150FT above ground level) not lighted Nov 07, 2016 1300Z-permanent

==== FDC NOTAMs ====

!FDC 6/6772 KCLE STAR HOPKINS INTL, CLEVELAND, OH. ZABER FOUR ARRIVAL... DME REQUIRED AT ZABER AND JAKEE, DISREGARD SKY VOR/DME (DECOMMISSIONED). 18 AUG 15:30 2016 UNTIL 18 FEB 11:30 2017 ESTIMATED. CREATED: 18 AUG 15:17 2016

***** KCLE (Alternate 2) Closest Terminal Weather *****

METAR KCLE 291851Z Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 29, 1851Z. Wind from 270° at 18 knots with gusts to 23 knots, 10 statute miles visibility, Ceiling is Broken at 3,600 feet, Temperature 4°C, Dewpoint -4°C, Altimeter is 29.72.

METAR KCLE 291751Z Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 29, 1751Z. Wind from 250° at 16 knots with gusts to 24 knots, 10 statute miles visibility, Few clouds at 2,600 feet, Ceiling is Overcast at 4,800 feet, Temperature 4°C, Dewpoint -3°C, Altimeter is 29.72. Remarks: automated station with precipitation discriminator peak wind from 250° at 27 knots at 1719Z sea level pressure 1007.0 hectopascals hourly temp 3.9°C dewpoint -2.8°C 6-hour max temp 3.9°C 6-hour min temp 2.2°C 3-hour atmospheric pressure steady or increasing, then decreasing; or decreasing then decreasing more rapidly by 0.1 hectopascals

SPECI KCLE 291738Z Special, Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 29, 1738Z. Wind from 250° at 14 knots with gusts to 25 knots, 10 statute miles visibility, Scattered Clouds at 2,600 feet, Ceiling is Broken at 3,500 feet, Overcast at 4,800 feet,

Temperature 3°C, Dewpoint -3°C, Altimeter is 29.72. Remarks: automated station with precipitation discriminator peak wind from 250° at 27 knots at 1719Z hourly temp 3.3°C dewpoint -2.8°C

METAR KCLE 291651Z Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 29, 1651Z. Wind from 250° at 16 knots, 10 statute miles visibility, Scattered Clouds at 2,300 feet, Ceiling is Broken at 2,900 feet, Overcast at 4,800 feet, Temperature 3°C, Dewpoint -3°C, Altimeter is 29.73. Remarks: automated station with precipitation discriminator sea level pressure 1007.2 hectopascals hourly temp 2.8°C dewpoint -2.8°C

SPECI KCLE 270115Z Special, Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 27, 0115Z. Light Rain, Wind from 260° at 16 knots with gusts to 27 knots, 5 statute miles visibility, Few clouds at 800 feet, Ceiling is Broken at 3,700 feet, Overcast at 4,700 feet, Temperature 13°C, Dewpoint 10°C, Altimeter is 29.92. Remarks: automated station with precipitation discriminator peak wind from 270° at 29 knots at 0053Z wind shifted at 0038Z 0.18 inches precipitation (water equivalent) in past hour hourly temp 12.8°C dewpoint 10.0°C

Cleveland-Hopkins International, Cleveland, OH (KCLE). Issued Dec 29, 1738Z, valid from Dec 29, 1800Z until Dec 31, 0000Z, Wind from 250° at 15 knots with gusts to 25 knots, greater than 6 statute miles visibility, Ceiling is Broken at 2,500 feet

From Dec 30, 0000Z, Wind from 260° at 20 knots with gusts to 30 knots, 3 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

Temporary between Dec 30, 0100Z and Dec 30, 0400Z, 1 statute mile visibility, Light Snow and Blowing Snow, Ceiling is Overcast at 1,500 feet

From Dec 30, 0400Z, Wind from 270° at 15 knots with gusts to 25 knots, 5 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

From Dec 30, 1000Z, Wind from 270° at 15 knots with gusts to 25 knots, 2 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

From Dec 30, 1400Z, Wind from 280° at 15 knots with gusts to 25 knots, 5 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet.

***** KCLE (Alternate 2) NOTAMs *****

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==== Apron NOTAMs ====

!CLE 07/204 Cleveland-Hopkins International, Cleveland, OH (KCLE) Apron hold pad 3 non movement area Jul 10, 2016 1522Z-permanent

==== Taxiway NOTAMs ====

!CLE 07/203 Cleveland-Hopkins International, Cleveland, OH (KCLE) Taxiway Q non-movement area Jul 10, 2016 1515Z-permanent

!CLE 07/202 Cleveland-Hopkins International, Cleveland, OH (KCLE) Taxiway K1 non-movement area Jul 10, 2016 1514Z-permanent

===== FDC NOTAMs =====

!FDC 6/6772 KCLE STAR HOPKINS INTL, CLEVELAND, OH. ZABER FOUR ARRIVAL... DME REQUIRED AT ZABER AND JAKEE, DISREGARD SKY VOR/DME (DECOMMISSIONED). 18 AUG 15:30 2016 UNTIL 18 FEB 11:30 2017 ESTIMATED. CREATED: 18 AUG 15:17 2016

***** TFR *****

The published TFRs and special notices around sporting events, power plants, dams, refineries, military facilities, correctional and law enforcement facilities, as well as all other published NOTAMs, are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

No current TFR data for this briefing.

***** Convective SIGMET *****

No current Convective SIGMET data for this briefing.

***** SIGMET *****

No current SIGMET data for this briefing.

***** AIRMET *****

AIRMET issued by the Aviation Weather Center Kansas City, Missouri on the 29th at 1747Z amendment.

Boston Forecast Area AIRMET Zulu prepared on the 29th at 1747Z amendment.

AIRMET Zulu update 3 for Ice and freezing level valid until the 29th at 2100Z.

AIRMET Ice...New York Lake Ontario Pennsylvania Ohio Lake Erie West Virginia Maryland District of Columbia Virginia And coastal waters...update

From 60 miles northeast of Massena Intl-Richards Field, Massena, NY (MSS) to 50 miles west-north-west of Albany Intl., Albany, NY (ALB) to 30 miles east-north-east of Westminster, Westminster, MD (EMI) to 30 miles southeast of Ronald Reagan Washington Natnl, Washington, DC (DCA) to 40 miles south of Appleton, Appleton, OH (APE) to 60 miles west of Henderson, Henderson, WV (HNN) to Covington/Cincinnati, Covington, KY (CVG) to Fort Wayne, Fort Wayne, IN (FWA) to 30 miles east-south-east of Peck, Peck, MI (ECK) to 20 miles west-south-west of Ottawa Macdonald Cartier International (YOW) to 60 miles northeast of Massena Intl-Richards Field, Massena, NY (MSS)

Moderate ice between freezing level and 120. Freezing level from the surface to 2,000 feet mean sea level. Conditions continuing beyond 2100Z through 0300Z.

The freezing level ranges from the surface to 10,000 feet mean sea level across area.

Multiple freezing levels exist from 2,000 feet mean sea level to 10,000 feet mean sea level within an area bounded by 150 miles east of Nantucket Memorial, Nantucket, MA (ACK) to 200 miles

southeast of Nantucket Memorial, Nantucket, MA (ACK) to 190 miles south-south-east of Nantucket Memorial, Nantucket, MA (ACK) to 90 miles southeast of East Hampton, East Hampton, NY (HTO) to 150 miles east of Nantucket Memorial, Nantucket, MA (ACK). The freezing level is at the surface along a line from 20 miles north-north-east of Lester B. Pearson International (YYZ) to 60 miles south-south-west of Syracuse Hancock International, Syracuse, NY (SYR) to Hancock, Hancock, NY (HNK) to 30 miles southeast of Albany Intl., Albany, NY (ALB) to 40 miles south of Bangor International, Bangor, ME (BGR) to 60 miles southwest of Saint John (YSJ).

The freezing level is at 4,000 feet mean sea level along a line from 40 miles south-south-west of New River Valley, Dublin, VA (PSK) to 30 miles north of Richmond International, Richmond, VA (RIC) to 40 miles west-south-west of Coyle, Coyle, NJ (CYN) to 20 miles east-north-east of Coyle, Coyle, NJ (CYN) to 110 miles southeast of Nantucket Memorial, Nantucket, MA (ACK) to 160 miles east-south-east of Nantucket Memorial, Nantucket, MA (ACK).

The freezing level is at 8,000 feet mean sea level along a line from 70 miles east of Norfolk International, Norfolk, VA (ORF) to 100 miles east-south-east of Salisbury-Ocean City Wicomico, Salisbury, MD (SBY) to 130 miles east-south-east of Siedlce (SIE) to 190 miles south-south-east of Nantucket Memorial, Nantucket, MA (ACK).

AIRMET issued by the Aviation Weather Center Kansas City, Missouri on the 29th at 1747Z amendment.

Boston Forecast Area AIRMET Zulu prepared on the 29th at 1747Z amendment.

AIRMET Zulu update 3 for Ice and freezing level valid until the 29th at 2100Z.

Outlook valid 2100Z to 0300Z

AREA 2... Ice Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut New York Lake Ontario New Jersey Pennsylvania Ohio Lake Erie West Virginia Maryland Virginia Bounded by 70 miles northwest of Presque Isle, Presque Isle, ME (PQI) to 30 miles south of Kennebunk, Kennebunk, ME (ENE) to 20 miles north-north-east of John F. Kennedy International, New York, NY (JFK) to 20 miles west of Conson (CSN) to 40 miles south-south-east of New River Valley, Dublin, VA (PSK) to Hofmeyer (HMV) to Henderson, Henderson, WV (HNN) to Covington/Cincinnati, Covington, KY (CVG) to Fort Wayne, Fort Wayne, IN (FWA) to 30 miles southeast of Peck, Peck, MI (ECK) to Massena Intl-Richards Field, Massena, NY (MSS) to Sherbrooke (YSC) to 70 miles northwest of Presque Isle, Presque Isle, ME (PQI) Moderate ice between freezing level and 100. Freezing level from the surface to 2,000 feet mean sea level. Conditions continuing through 0300Z.

AIRMET issued by the Aviation Weather Center Kansas City, Missouri on the 29th at 1804Z amendment.

Boston Forecast Area AIRMET Tango prepared on the 29th at 1804Z amendment.

AIRMET Tango update 4 for Turbulence strong winds and low level wind shear valid until the 29th at 2100Z.

AIRMET Turbulence...New York Lake Ontario Pennsylvania Ohio Lake Erie

From 50 miles east of Lester B. Pearson International (YYZ) to 20 miles northwest of Ellwood City, Ellwood City, PA (EWC) to Covington/Cincinnati, Covington, KY (CVG) to Fort Wayne, Fort Wayne, IN (FWA) to Detroit, Detroit, MI (DXO) to 50 miles east of Lester B. Pearson International (YYZ)

Moderate turbulence below 10,000 feet. Conditions continuing beyond 2100Z through 0300Z.

AIRMET issued by the Aviation Weather Center Kansas City, Missouri on the 29th at 1804Z amendment.

Boston Forecast Area AIRMET Tango prepared on the 29th at 1804Z amendment.

AIRMET Tango update 4 for Turbulence strong winds and low level wind shear valid until the 29th at 2100Z.

AIRMET Turbulence...Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut New York Lake Ontario New Jersey Pennsylvania Ohio Lake Erie West Virginia Maryland District of Columbia Delaware Virginia And coastal waters

From 70 miles northwest of Presque Isle, Presque Isle, ME (PQI) to 60 miles northeast of Presque Isle, Presque Isle, ME (PQI) to 200 miles southeast of Nantucket Memorial, Nantucket, MA (ACK) to 160 miles southeast of Siedlce (SIE) to 20 miles northeast of Elizabeth City-C G Air Station, Elizabeth City, NC (ECG) to Hofmeyer (HMV) to Henderson, Henderson, WV (HNN) to Covington/Cincinnati, Covington, KY (CVG) to 20 miles northwest of Ellwood City, Ellwood City, PA (EWC) to 50 miles east of Lester B. Pearson International (YYZ) to Massena Intl-Richards Field, Massena, NY (MSS) to Sherbrooke (YSC) to 70 miles northwest of Presque Isle, Presque Isle, ME (PQI)

Moderate turbulence below flight level 180. Conditions continuing beyond 2100Z through 0300Z.

AIRMET issued by the Aviation Weather Center Kansas City, Missouri on the 29th at 1804Z amendment.

Boston Forecast Area AIRMET Tango prepared on the 29th at 1804Z amendment.

AIRMET Tango update 4 for Turbulence strong winds and low level wind shear valid until the 29th at 2100Z.

Outlook valid 2100Z to 0300Z

AREA 2... Turbulence Vermont Massachusetts Connecticut New York Lake Ontario New Jersey Pennsylvania Ohio Lake Erie West Virginia Maryland District of Columbia Delaware Virginia And coastal waters

Bounded by 20 miles northeast of Massena Intl-Richards Field, Massena, NY (MSS) to 40 miles east of Albany Intl., Albany, NY (ALB) to 40 miles south-south-west of East Hampton, East Hampton, NY (HTO) to 30 miles north-north-east of Richmond International, Richmond, VA (RIC) to 40 miles north of Hofmeyer (HMV) to Henderson, Henderson, WV (HNN) to Covington/Cincinnati, Covington, KY (CVG) to Fort Wayne, Fort Wayne, IN (FWA) to 30 miles southeast of Peck, Peck, MI (ECK) to 20 miles northeast of Massena Intl-Richards Field, Massena, NY (MSS)

Moderate turbulence below 10,000 feet. Conditions continuing through 0300Z.

AIRMET issued by the Aviation Weather Center Kansas City, Missouri on the 29th at 1804Z amendment.

Miami Forecast Area AIRMET Tango prepared on the 29th at 1804Z amendment.

AIRMET Tango update 3 for Turbulence strong winds and low level wind shear valid until the 29th at 2100Z.

AIRMET Turbulence...North Carolina South Carolina Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut New York Lake Ontario New Jersey Pennsylvania Ohio Lake Erie West Virginia Maryland District of Columbia Delaware Virginia And coastal

waters

From 70 miles northeast of Quebec/Jean Lesage International (YQB) to 60 miles northeast of Presque Isle, Presque Isle, ME (PQI) to 200 miles southeast of Nantucket Memorial, Nantucket, MA (ACK) to 160 miles southeast of Siedlce (SIE) to 50 miles south-south-east of Elizabeth City-C G Air Station, Elizabeth City, NC (ECG) to 50 miles south of Raleigh/Durham International, Raleigh/Durham, NC (RDU) to Choo Choo, Chattanooga, TN (GQO) to Hofmeyer (HMY) to Henderson, Henderson, WV (HNN) to Covington/Cincinnati, Covington, KY (CVG) to 50 miles south of Fort Wayne, Fort Wayne, IN (FWA) to 40 miles south of Erie Intl/Tom Ridge Field, Erie, PA (ERI) to 20 miles west-south-west of Ottawa Macdonald Cartier International (YOW) to Sherbrooke (YSC) to 70 miles northeast of Quebec/Jean Lesage International (YQB) Moderate turbulence between flight level 180 and 380. Conditions continuing beyond 2100Z through 0300Z.

AIRMET issued by the Aviation Weather Center Kansas City, Missouri on the 29th at 1804Z amendment.

Boston Forecast Area AIRMET Tango prepared on the 29th at 1804Z amendment.

AIRMET Tango update 4 for Turbulence strong winds and low level wind shear valid until the 29th at 2100Z.

AIRMET Turbulence...Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut New York Lake Ontario New Jersey Pennsylvania Ohio Lake Erie West Virginia Maryland District of Columbia Delaware Virginia North Carolina South Carolina And coastal waters

From 70 miles northeast of Quebec/Jean Lesage International (YQB) to 60 miles northeast of Presque Isle, Presque Isle, ME (PQI) to 200 miles southeast of Nantucket Memorial, Nantucket, MA (ACK) to 160 miles southeast of Siedlce (SIE) to 50 miles south-south-east of Elizabeth City-C G Air Station, Elizabeth City, NC (ECG) to 50 miles south of Raleigh/Durham International, Raleigh/Durham, NC (RDU) to Choo Choo, Chattanooga, TN (GQO) to Hofmeyer (HMY) to Henderson, Henderson, WV (HNN) to Covington/Cincinnati, Covington, KY (CVG) to 50 miles south of Fort Wayne, Fort Wayne, IN (FWA) to 40 miles south of Erie Intl/Tom Ridge Field, Erie, PA (ERI) to 20 miles west-south-west of Ottawa Macdonald Cartier International (YOW) to Sherbrooke (YSC) to 70 miles northeast of Quebec/Jean Lesage International (YQB) Moderate turbulence between flight level 180 and 380. Conditions continuing beyond 2100Z through 0300Z.

***** Center Weather Advisory *****

No current Center Weather Advisory data for this briefing.

***** Severe Weather *****

No current Severe Weather data for this briefing.

***** UAS Operating Areas *****

UAS Operating Area (UOA). This section of the briefing contains UAS Operating Areas filed on the LM Pilot Web Portal and UAS operations issued via NOTAM. All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

UAS Operating Area DEFINED AS 2NM RADIUS OF 410406N0815912W SFC-400FT AGL
1603170000-1702282359.

***** Surface Observations *****

METAR KOSU 291853Z COR Ohio State University, Columbus, OH (KOSU). Dec 29, 1853Z, Corrected. Wind from 260° at 16 knots with gusts to 27 knots, 10 statute miles visibility, Few clouds at 2,400 feet, Temperature 5°C, Dewpoint -2°C, Altimeter is 29.80. Remarks: automated station with precipitation discriminator peak wind from 260° at 30 knots at 1821Z sea level pressure 1009.5 hectopascals hourly temp 5.0°C dewpoint -1.7°C

METAR KTZR 291850Z Bolton Field, Columbus, OH (KTZR). Dec 29, 1850Z. Wind from 280° at 13 knots with gusts to 21 knots, 10 statute miles visibility, Sky Clear, Temperature 6°C, Dewpoint -3°C, Altimeter is 29.82.

METAR KMRT 291932Z AUTO Union County, Marysville, OH (KMRT). Dec 29, 1932Z, Automated. Wind from 270° at 17 knots with gusts to 23 knots, 10 statute miles visibility, Clear Skies, Temperature 5°C, Dewpoint -2°C, Altimeter is 29.78. Remarks: automated station with precipitation discriminator hourly temp 4.8°C dewpoint -1.9°C

METAR KLCK 291935Z AUTO Rickenbacker International, Columbus, OH (KLCK). Dec 29, 1935Z, Automated. Wind from 260° at 15 knots with gusts to 22 knots, 10 statute miles visibility, Temperature 5°C, Dewpoint -2°C, Altimeter is 29.81. Remarks: automated station with precipitation discriminator hourly temp 5.3°C dewpoint -2.4°C

METAR KUYF 291935Z AUTO Madison County, London, OH (KUYF). Dec 29, 1935Z, Automated. Wind from 270° at 18 knots with gusts to 24 knots, 10 statute miles visibility, Clear Skies, Temperature 6°C, Dewpoint 0°C, Altimeter is 29.79. Remarks: automated station with precipitation discriminator

METAR KDLZ 291939Z AUTO Delaware Muni-Jim Moore Field, Delaware, OH (KDLZ). Dec 29, 1939Z, Automated. Wind from 240° at 13 knots with gusts to 18 knots, 10 statute miles visibility, Clear Skies, Temperature 5°C, Dewpoint -2°C, Altimeter is 29.78. Remarks: automated station with precipitation discriminator

METAR KCMH 291851Z Port Columbus International, Columbus, OH (KCMH). Dec 29, 1851Z. Wind from 270° at 17 knots with gusts to 21 knots, 10 statute miles visibility, Scattered Clouds at 3,000 feet, Ceiling is Broken at 20,000 feet, Temperature 6°C, Dewpoint -3°C, Altimeter is 29.80.

METAR K4I3 291927Z AUTO Knox County, Mount Vernon, OH (K4I3). Dec 29, 1927Z, Automated. Wind from 260° at 14 knots with gusts to 25 knots, 10 statute miles visibility,

Clear Skies, Temperature 4°C, Dewpoint -2°C, Altimeter is 29.76. Remarks: automated station with precipitation discriminator

METAR KBJJ 291856Z AUTO Wayne County, Wooster, OH (KBJJ). Dec 29, 1856Z, Automated. Wind from 280°; at 16 knots with gusts to 24 knots, 10 statute miles visibility, Scattered Clouds at 3,000 feet, Temperature 3°C, Dewpoint -3°C, Altimeter is 29.72. Remarks: automated station with precipitation discriminator peak wind from 260°; at 28 knots at 1810Z sea level pressure 1007.3 hectopascals hourly temp 2.8°C dewpoint -3.3°C

METAR KCAK 291851Z Akron Canton Regional, Akron, OH (KCAK). Dec 29, 1851Z. Wind from 260°; at 17 knots with gusts to 25 knots, 10 statute miles visibility, Scattered Clouds at 2,900 feet, Ceiling is Broken at 3,800 feet, Temperature 3°C, Dewpoint -4°C, Altimeter is 29.70. Remarks: automated station with precipitation discriminator sea level pressure 1006.8 hectopascals hourly temp 2.8°C dewpoint -3.9°C

METAR KAKR 291854Z AUTO Akron Fulton International, Akron, OH (KAKR). Dec 29, 1854Z, Automated. Wind from 250°; at 14 knots with gusts to 20 knots, 10 statute miles visibility, Ceiling is Broken at 3,600 feet, Overcast at 4,300 feet, Temperature 3°C, Dewpoint -3°C, Altimeter is 29.70. Remarks: automated station with precipitation discriminator peak wind from 260°; at 28 knots at 1825Z sea level pressure 1006.4 hectopascals hourly temp 3.3°C dewpoint -2.8°C

METAR KPOV 291936Z AUTO Portage County, Ravenna, OH (KPOV). Dec 29, 1936Z, Automated. Wind from 260°; at 12 knots with gusts to 19 knots, 10 statute miles visibility, Ceiling is Broken at 3,200 feet, Overcast at 3,800 feet, Temperature 2°C, Dewpoint -4°C, Altimeter is 29.68. Remarks: automated station with precipitation discriminator 0.01 inches precipitation (water equivalent) in past hour hourly temp 1.8°C dewpoint -3.6°C

METAR KLPR 291853Z AUTO Lorain County Regional, Lorain/Elyria, OH (KLPR). Dec 29, 1853Z, Automated. Wind from 280°; at 13 knots with gusts to 22 knots, 10 statute miles visibility, Ceiling is Broken at 3,000 feet, Temperature 3°C, Dewpoint -3°C, Altimeter is 29.70. Remarks: automated station with precipitation discriminator sea level pressure 1006.4 hectopascals hourly temp 2.8°C dewpoint -3.3°C

METAR KCLE 291851Z Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 29, 1851Z. Wind from 270°; at 18 knots with gusts to 23 knots, 10 statute miles visibility, Ceiling is Broken at 3,600 feet, Temperature 4°C, Dewpoint -4°C, Altimeter is 29.72.

METAR KCGF 291945Z Cuyahoga County, Cleveland, OH (KCGF). Dec 29, 1945Z. Wind from 280°; at 15 knots with gusts to 25 knots, 15 statute miles visibility, Ceiling is Broken at 2,500 feet, Broken Clouds at 4,000 feet, Temperature 4°C, Dewpoint -2°C, Altimeter is 29.68.

METAR KLNN 291935Z AUTO Willoughby Lost Nation Municipal, Willoughby, OH (KLNN). Dec 29, 1935Z, Automated. Wind from 240° at 16 knots with gusts to 24 knots, 10 statute miles visibility, Ceiling is Overcast at 5,000 feet, Temperature 3°C, Dewpoint -1°C, Altimeter is 29.68. Remarks: automated station without precipitation discriminator hourly temp 2.5°C dewpoint -0.9°C

METAR KBKL 291853Z Burke Lakefront, Cleveland, OH (KBKL). Dec 29, 1853Z. Wind from 250° at 20 knots with gusts to 26 knots, 9 statute miles visibility, Ceiling is Overcast at 4,700 feet, Temperature 4°C, Dewpoint -2°C, Altimeter is 29.68. Remarks: automated station with precipitation discriminator peak wind from 250° at 27 knots at 1827Z snow ended 48 minutes past the hour sea level pressure 1005.6 hectopascals less than 0.01 inches precipitation (water equivalent) in past hour hourly temp 3.9°C dewpoint -2.2°C

METAR KCLE 291851Z Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 29, 1851Z. Wind from 270° at 18 knots with gusts to 23 knots, 10 statute miles visibility, Ceiling is Broken at 3,600 feet, Temperature 4°C, Dewpoint -4°C, Altimeter is 29.72.

METAR KCLE 291851Z Cleveland-Hopkins International, Cleveland, OH (KCLE). Dec 29, 1851Z. Wind from 270° at 18 knots with gusts to 23 knots, 10 statute miles visibility, Ceiling is Broken at 3,600 feet, Temperature 4°C, Dewpoint -4°C, Altimeter is 29.72.

***** Pilot Reports *****

No current Pilot Reports data for this briefing.

***** Synopsis *****

Boston CONUS area forecast issued by the Aviation Weather Center Kansas City, Missouri on the 29th at 1845Z

FA1W

Boston area forecast, prepared on the 29th at 1845Z

Synopsis and VFR clouds/weather

Synopsis valid until the 30th at 1300Z

Clouds/weather valid until the 30th at 0700Z...Outlook valid from the 30th at 0700Z to the 30th at 1300Z

Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut New York Lake Ontario New Jersey Pennsylvania Ohio Lake Erie West Virginia Maryland District of Columbia Delaware Virginia and coastal waters

Synopsis...1900Z warm front FM low E central New Jersey South-south-eastward into international waters. Cold front FM low E central New Jersey across NC Outer Banks continuing south-south-westward. Cold front S central Virginia-central Pennsylvania-eastern Lake Ontario continuing north-north-westward. Stationary front northeastern New York-central New Hampshire-southwest Maine-southern Nova Scotia. 1300Z occluded front FM low northeastern Maine across northern northbound continuing eastward.

***** Area Forecast *****

Boston CONUS area forecast issued by the Aviation Weather Center Kansas City, Missouri on the 29th at 1845Z

FA1W

Boston area forecast, prepared on the 29th at 1845Z

Synopsis and VFR clouds/weather

Synopsis valid until the 30th at 1300Z

Clouds/weather valid until the 30th at 0700Z...Outlook valid from the 30th at 0700Z to the 30th at 1300Z

Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut New York Lake Ontario New Jersey Pennsylvania Ohio Lake Erie West Virginia Maryland District of Columbia Delaware Virginia and coastal waters

SEE AIRMET SIERRA FOR IFR CONDS And MTN OBSCN.

Thunderstorms imply severe OR greater turbulence severe ice low level wind shear and IFR conditions. Non mean sea level heights denoted by above ground level OR ceiling.

Ohio Lake Erie

Northwest 1/4 Ohio/W 1/4 LE...Scattered to broken clouds at 5,000 feet tops at 10,000 feet.

Wind W gusting to 25 knots throughout the period. 2300Z overcast clouds at 3,000 feet.

Scattered light snow showers. Outlook: marginal VFR ceiling snow showers wind.

Northeastern 1/4 Ohio/E 3/4 LE...Overcast clouds at 3,000 feet tops at 15,000 feet. Scattered light snow showers. Wind W gusting to 25 knots throughout the period. 0100Z overcast clouds at 2,000 feet. Visibility 3 to 5 statute miles scattered/numerous light snow showers. Outlook: IFR ceiling snow showers wind.

Southwest 1/4 Ohio...Scattered clouds at 4,000 feet. Wind W gusting to 25 knots. 2100Z broken clouds at 4,000 feet tops at 10,000 feet. 0000Z overcast clouds at 4,000 feet. Scattered light snow showers. Outlook: marginal VFR ceiling snow showers wind.

Southeast 1/4 Ohio...Broken clouds at 5,000 feet tops at 10,000 feet. Wind W gusting to 25 knots. 0000Z broken clouds at 3,000 feet. Scattered light snow showers. Outlook: marginal VFR ceiling snow showers.

***** Terminal Forecasts *****

No TAF stations within 5 nm of departure. Refer to Area Forecast for forecast information.

Rickenbacker International, Columbus, OH (KLCK). Issued Dec 29, 1747Z, valid from Dec 29, 1800Z until Dec 30, 1800Z, Wind from 270° at 15 knots with gusts to 23 knots, greater than 6 statute miles visibility, Scattered Clouds at 3,500 feet

From Dec 29, 2000Z, Wind from 260° at 17 knots with gusts to 25 knots, greater than 6 statute miles visibility, Ceiling is Broken at 3,500 feet

From Dec 30, 0000Z, Wind from 270° at 18 knots with gusts to 35 knots, greater than 6

statute miles visibility, Showers in the Vicinity, Ceiling is Overcast at 3,000 feet

Temporary between Dec 30, 0100Z and Dec 30, 0500Z, 3 statute miles visibility, Light Showers Snow

From Dec 30, 0800Z, Wind from 270°; at 16 knots with gusts to 26 knots, greater than 6 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

From Dec 30, 1600Z, Wind from 280°; at 14 knots with gusts to 25 knots, greater than 6 statute miles visibility, Ceiling is Overcast at 4,000 feet. Amendments not scheduled.

Port Columbus International, Columbus, OH (KCMH). Issued Dec 29, 1747Z, valid from Dec 29, 1800Z until Dec 30, 1800Z, Wind from 270°; at 12 knots with gusts to 22 knots, greater than 6 statute miles visibility, Scattered Clouds at 4,000 feet, Ceiling is Broken at 11,000 feet

From Dec 29, 2200Z, Wind from 270°; at 17 knots with gusts to 25 knots, greater than 6 statute miles visibility, Ceiling is Broken at 3,500 feet

From Dec 30, 0000Z, Wind from 280°; at 18 knots with gusts to 33 knots, greater than 6 statute miles visibility, Showers in the Vicinity, Ceiling is Overcast at 3,000 feet

Temporary between Dec 30, 0100Z and Dec 30, 0500Z, 3 statute miles visibility, Light Showers Snow

From Dec 30, 0800Z, Wind from 280°; at 16 knots with gusts to 26 knots, greater than 6 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

From Dec 30, 1600Z, Wind from 280°; at 14 knots with gusts to 25 knots, greater than 6 statute miles visibility, Ceiling is Overcast at 4,000 feet.

Akron Canton Regional, Akron, OH (KCAK). Issued Dec 29, 1738Z, valid from Dec 29, 1800Z until Dec 30, 1800Z, Wind from 250°; at 15 knots with gusts to 25 knots, greater than 6 statute miles visibility, Ceiling is Broken at 2,500 feet

Temporary between Dec 29, 1900Z and Dec 29, 2200Z, Scattered Clouds at 2,500 feet

From Dec 30, 0000Z, Wind from 260°; at 15 knots with gusts to 25 knots, greater than 6 statute miles visibility, Ceiling is Overcast at 2,500 feet

Temporary between Dec 30, 0100Z and Dec 30, 0500Z, 1 and 1/2 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 1,500 feet

From Dec 30, 0500Z, Wind from 270°; at 15 knots with gusts to 25 knots, 5 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

From Dec 30, 1500Z, Wind from 280°; at 15 knots with gusts to 25 knots, 6 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet.

Cleveland-Hopkins International, Cleveland, OH (KCLE). Issued Dec 29, 1738Z, valid from Dec 29, 1800Z until Dec 31, 0000Z, Wind from 250°; at 15 knots with gusts to 25 knots, greater than 6 statute miles visibility, Ceiling is Broken at 2,500 feet

From Dec 30, 0000Z, Wind from 260°; at 20 knots with gusts to 30 knots, 3 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

Temporary between Dec 30, 0100Z and Dec 30, 0400Z, 1 statute mile visibility, Light Snow and Blowing Snow, Ceiling is Overcast at 1,500 feet

From Dec 30, 0400Z, Wind from 270°; at 15 knots with gusts to 25 knots, 5 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

From Dec 30, 1000Z, Wind from 270°; at 15 knots with gusts to 25 knots, 2 statute

miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet

From Dec 30, 1400Z, Wind from 280° at 15 knots with gusts to 25 knots, 5 statute miles visibility, Light Showers Snow, Ceiling is Overcast at 2,500 feet.

***** Convective Outlook *****

ACUS01 KWNS 291938

SWODY1

SPC AC 291937

DAY 1 CONVECTIVE OUTLOOK

NWS STORM PREDICTION CENTER NORMAN OK

0137 PM CST THU DEC 29 2016

VALID 292000Z - 301200Z

...NO SEVERE THUNDERSTORM AREAS FORECAST...

...SUMMARY...

WIDELY SCATTERED TO ISOLATED THUNDERSTORMS WILL PERSIST ACROSS NORTHERN FLORIDA THIS AFTERNOON BEFORE DIMINISHING TOWARD EVENING.

...DISCUSSION...

THUNDERSTORMS WILL CONTINUE DEVELOPING ALONG A COLD FRONT THROUGH

NORTHERN FLORIDA THIS AFTERNOON BEFORE DIMINISHING THIS EVENING AS THE FRONT BEGINS TO MOVE SOUTH OF THE CORRIDOR OF WEAK INSTABILITY.

..DIAL.. 12/29/2016

..PREV DISCUSSION... /ISSUED 1026 AM CST THU DEC 29 2016/

...SOUTHEAST...

WHILE THUNDERSTORMS HAVE SHIFTED OFF THE NC COAST, A BROKEN BAND OF

LOW-TOPPED CONVECTION PERSISTS ALONG A COLD FRONT FROM THE SC COASTAL PLAIN TO SOUTHEAST AL. THIS ACTIVITY SHOULD PROGRESS EAST IN CONCERT WITH THE FRONT BEFORE SHIFTING OFF THE ATLANTIC COAST BY 00Z. BUOYANCY AND INSTABILITY WILL REMAIN WEAK IN THE WARM SECTOR, AS MLCAPE HOLDS AROUND 250-500 J/KG AMID INCREASINGLY POOR MID-LEVEL

LAPSE RATES WITH SOUTHERN EXTENT. IT IS STILL POSSIBLE THAT A FEW UPDRAFTS MIGHT BECOME DEEP ENOUGH TO PRODUCE CHARGE SEPARATION. LIMITED DIABATIC HEATING EVIDENCED BY EXTENSIVE LOW-LEVEL CLOUDS PER

VISIBLE SATELLITE IMAGERY AND VEERED SURFACE WINDS MINIMIZING CONVERGENCE SUGGEST THAT A DAMAGING WIND/TORNADO RISK (WHILE NON-ZERO) APPEARS TOO LOW TO WARRANT A SEVERE AREA DELINEATION.

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ACUS02 KWNS 291701

SWODY2

SPC AC 291700

DAY 2 CONVECTIVE OUTLOOK

NWS STORM PREDICTION CENTER NORMAN OK

1100 AM CST THU DEC 29 2016

VALID 301200Z - 311200Z

...NO SEVERE THUNDERSTORM AREAS FORECAST...

...SUMMARY...

ISOLATED THUNDERSTORMS WILL BE POSSIBLE ACROSS A PORTION OF SOUTHWEST CALIFORNIA AND ARIZONA FRIDAY.

...SOUTHWEST CALIFORNIA AND ARIZONA...

FORCING FOR ASCENT ACCOMPANYING A SOUTHERN-STREAM SHORTWAVE TROUGH

IN THE PRESENCE OF MODEST MID-LEVEL LAPSE RATES WILL PROMOTE WEAK INSTABILITY AND THE RISK FOR ISOLATED THUNDERSTORMS INITIALLY OVER SOUTHERN CALIFORNIA FRIDAY MORNING, THEN INTO PORTIONS OF SOUTHERN AND CENTRAL ARIZONA LATER FRIDAY AFTERNOON AND EVENING.

..DIAL.. 12/29/2016

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ACUS03 KWNS 290806

SWODY3

SPC AC 290805

DAY 3 CONVECTIVE OUTLOOK

NWS STORM PREDICTION CENTER NORMAN OK

0205 AM CST THU DEC 29 2016

VALID 311200Z - 011200Z

...NO SEVERE THUNDERSTORM AREAS FORECAST...

...SUMMARY...

THUNDERSTORMS WILL BE POSSIBLE ON SATURDAY FROM PORTIONS OF EAST TEXAS TO THE LOWER MISSISSIPPI VALLEY, AND ACROSS PORTIONS OF SOUTHERN CALIFORNIA AND ARIZONA.

...SYNOPSIS/DISCUSSION...

A MIDDLE LEVEL WAVE IS FORECAST TO TRACK FROM THE SOUTHWEST STATES TO THE CENTRAL STATES, WHILE MINORING OUT WITHIN CONFLUENT FLOW ALOFT.

A CHANNEL OF ENHANCED LOW-LEVEL SOUTHERLY/SOUTHWESTERLY FLOW -- RELATED TO THIS DISTURBANCE -- WILL ENCOURAGE POLEWARD FLUXES OF GULF MOISTURE AND ISENTROPIC ASCENT FROM PORTIONS OF EAST TEXAS TO THE LOWER MS VALLEY REGION. THUNDERSTORM POTENTIAL WILL EXIST IN THESE AREAS. HOWEVER, FAIRLY WIDESPREAD CONVECTION NEAR AND OFF THE

COAST MAY PROCESS RICHER GULF MOISTURE/STRONGER BUOYANCY THAT COULD

OTHERWISE EXTEND INLAND. AS SUCH, INFLOW OVER INLAND AREAS MAY REMAIN ELEVATED ATOP A MODIFYING COOL DOME. FURTHERMORE,

EFFECTIVE

BULK SHEAR SHOULD REMAIN MODEST. THESE FACTORS ARE EXPECTED TO MITIGATE THUNDERSTORM INTENSITY, THOUGH A FEW STRONGER STORMS MAY

OCCUR OFF THE UPPER TX AND LA COAST.

ADDITIONALLY, ASCENT PRECEDING A MIDLEVEL CYCLONE WELL UPSTREAM (CROSSING THE SOUTHWEST STATES) MAY PHASE WITH SUFFICIENT -- ALBEIT MARGINAL -- MOISTURE/BUOYANCY IN SUPPORT OF ISOLATED THUNDERSTORM POTENTIAL FROM PORTIONS OF SOUTHERN CA TO AZ. LIMITED INSTABILITY SHOULD PRECLUDE SEVERE POTENTIAL.

..COHEN.. 12/29/2016

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***** Winds Aloft Forecast *****

2k	Filed	Filed-4k	Filed-2k	Filed+4k											
Station	030	060	070	090	110	120	130	150	180	240	300				
	340	390	450	530											
291800Z															
1400-2100Z															
CVG	280028	300033-07	300032-09	300032-15	300034-19	300036-22	298037-24	295039-29	290042-37	280076-38	280107-39	270107-43	280098-46		
CMH	280025	300036-08	300035-10	300035-15	293036-20	290037-23	290036-25	290035-30	290034-37	280055-41	270085-39	270086-41	270074-44		
AGC	270024	280037-10	276038-12	270042-16	263044-20	260045-22	260044-24	260043-29	260042-36	260066-37	260084-38	260079-40	250062-45	250065-49	260052-56
CLE	280031	310034-09	310036-11	310040-16	303042-20	300043-23	298042-25	295041-30	290039-37	280044-44	270061-41	270065-40	260054-43	250055-47	260049-54
YQG	280032	300036-09	300037-11	300040-16	293040-20	290040-23	288038-25	285036-31	280032-39	280038-45	270052-43	270055-41	270049-42	260048-46	260042-53
300000Z															
2100-0600Z															
CVG	280037	300044-12	300045-13	300048-17	293050-20	290051-22	290050-24	290048-28	290046-35	290062-42	290105-40	290101-42	280092-46		
CMH	280037	290041-12	283040-13	270040-17	276041-21	280042-23	281042-25	285043-29	290044-35	290051-46	280072-42	280075-40	270073-43		
AGC	270034	290040-09	290041-11	290043-17	283043-21	280044-24	280043-26	280043-31	280043-38	280045-44	270060-41	270066-40	260064-43	250072-47	270039-53
CLE	270038	280037-12	280036-13	280034-17	280036-22	280037-25	280036-27	280036-31	280035-37	280045-47	280051-43	280056-41	270054-42	260060-46	270040-52
YQG	280037	300036-11	296034-13	290031-18	290031-22	290031-25	290031-27	290032-31	290034-38	290039-47	290046-45	280050-42	280047-43	260053-46	280040-51

301200Z

0600-1800Z

CVG 300029 310037-14 310040-15 310048-17 310054-19 310058-21 310060-22 310064-26 310070-32 310090-42 310100-45 300109-46 300093-49

CMH 290033 310030-15 310031-16 310034-20 310040-22 310043-24 310045-25 310050-29 310057-34 310061-44 300074-46 300081-45 300075-46

AGC 280033 300035-14 300034-16 300032-21 293034-24 290036-26 291038-27 295042-31 300048-36 300056-45 300060-46 290061-43 280057-44 280053-47 260045-52

CLE 300036 310033-15 310033-17 310033-21 310034-24 310035-26 310037-27 310041-31 310047-36 310060-45 310063-48 300064-45 300059-46 290053-46 260035-50

YQG 310038 310028-15 310029-16 310032-20 303035-24 300037-26 301038-27 305042-31 310048-36 310058-45 310062-49 310063-46 300058-46 300051-46 270033-50

***** All Apron NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

!OSU 11/009 Ohio State University, Columbus, OH (KOSU) Apron east ramp W 400 feet closed Nov 29, 2016 2200Z to Jun 23, 2017 2100Z

!LCK 12/310 Rickenbacker International, Columbus, OH (KLCK) Apron 1 ramp Center taxi-lane closed Dec 29, 2016 1831Z to Dec 31, 2017 2000Z

!CLE 07/204 Cleveland-Hopkins International, Cleveland, OH (KCLE) Apron hold pad 3 non movement area Jul 10, 2016 1522Z-permanent

***** All Taxiway NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

!LCK 12/307 Rickenbacker International, Columbus, OH (KLCK) Taxiway A centerline markings between taxiway E and taxiway G not standard Dec 20, 2016 1342Z to Apr 15, 2017 2300Z

!CMH 12/396 Port Columbus International, Columbus, OH (KCMH) Taxiway E6 between taxiway E and approach end runway 10 left west edge 12 inches ruts Dec 29, 2016 0133Z to Jan 04, 2017 2300Z

!CLE 07/203 Cleveland-Hopkins International, Cleveland, OH (KCLE) Taxiway Q non-movement area Jul 10, 2016 1515Z-permanent

!CLE 07/202 Cleveland-Hopkins International, Cleveland, OH (KCLE) Taxiway K1 non-movement area Jul 10, 2016 1514Z-permanent

***** All Runway NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

!LCK 12/309 Rickenbacker International, Columbus, OH (KLCK) Runway 05 right approach light system out of service Dec 29, 2016 1829Z to Mar 01, 2017 2000Z

!LCK 12/053 Rickenbacker International, Columbus, OH (KLCK) Runway 23 left stopway markings not standard Dec 10, 2016 1933Z to May 31, 2017 2100Z

!DAY 09/110 Delaware Muni-Jim Moore Field, Delaware, OH (KDLZ) Runway 28 precision approach path indicator beyond 8 degree right of runway center line unusable Sep 09, 2016 2021Z-permanent

!DAY 08/165 Delaware Muni-Jim Moore Field, Delaware, OH (KDLZ) Runway 10/28 changed to 5,800 feet X 100 feet. Aug 10, 2016 1839Z-permanent

!CLE 08/767 Morrow County, Mount Gilead, OH (K4I9) Runway 28 precision approach path indicator out of service Aug 31, 2016 1209Z to Mar 01, 2017 2111Z Estimated

!CLE 12/858 Medina Municipal, Medina, OH (K1G5) Runway 01 precision approach path indicator out of service Dec 23, 2016 1603Z to Jan 23, 2017 1601Z

!CLE 12/857 Medina Municipal, Medina, OH (K1G5) Runway 19 precision approach path indicator out of service Dec 23, 2016 1603Z to Jan 23, 2017 1601Z

!CLE 08/080 Medina Municipal, Medina, OH (K1G5) Runway 27 precision approach path indicator out of service Aug 03, 2016 1602Z to Feb 09, 2017 2111Z Estimated

!CLE 11/458 Portage County, Ravenna, OH (KPOV) Runway 09 runway end ID light out of service Nov 22, 2016 1332Z to May 22, 2017 2111Z Estimated

!CGF 12/154 Cuyahoga County, Cleveland, OH (KCGF) Runway 24 field condition 5/5/5 100 percent wet observed at Dec 29, 2016 0545Z. Dec 29, 2016 0554Z to Dec 30, 2016 0554Z

!CGF 12/153 Cuyahoga County, Cleveland, OH (KCGF) Runway 06 field condition 5/5/5 100 percent wet observed at Dec 29, 2016 0545Z. Dec 29, 2016 0553Z to Dec 30, 2016 0553Z

***** All Aerodrome NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

!CLE 11/618 Kent State University, Kent, OH (K1G3) Aerodrome airport self serve fuel not available Nov 30, 2016 1941Z to Dec 30, 2016 1941Z

!CLE 12/095 Botsford, Wellington, OH (K67D) Aerodrome airport closed Dec 06, 2016 1827Z to Apr 01, 2017 0700Z

***** All Communication NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

No current Communication NOTAMs data for this briefing.

***** All Navigation NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

!LCK 12/147 Rickenbacker International, Columbus, OH (KLCK) Navigation ILS runway 05 right middle marker out of service Dec 14, 2016 1420Z to Jan 12, 2017 1800Z Estimated

!LCK 12/011 Rickenbacker International, Columbus, OH (KLCK) Navigation ILS runway 05 right outer marker not monitor Dec 07, 2016 1236Z to Jan 13, 2017 1800Z Estimated

!LCK 09/044 Rickenbacker International, Columbus, OH (KLCK) Navigation ILS runway 05 right category II not authorized Sep 30, 2016 1608Z to Mar 30, 2017 1800Z Estimated

!LCK 07/074 Rickenbacker International, Columbus, OH (KLCK) Navigation ILS runway 23 left out of service Jul 30, 2016 1405Z to Jan 05, 2017 1800Z Estimated

!LCK 05/032 Rickenbacker International, Columbus, OH (KLCK) Navigation ILS runway 23 left localizer out of service May 31, 2016 1408Z to Jan 31, 2017 1800Z Estimated

!VTA 09/008 Newark-Heath, Newark, OH (VTA) Navigation HEH NDB out of service Sep 17, 2014 1341Z-permanent

***** All Service NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

!TZR 11/001 Bolton Field, Columbus, OH (KTZR) Service automated weather broadcast system 135.925 Out of service Nov 02, 2016 1134Z to Mar 01, 2017 2100Z

!LCK 12/096 Rickenbacker International, Columbus, OH (KLCK) Service automated weather broadcast system ceiling out of service Dec 13, 2016 1404Z to Jan 13, 2017 1800Z Estimated

!CLE 07/668 KZOB Service Clarksburg approach control OPN daily 1100-0300 Aug 01, 2016 1100Z to Dec 31, 2016 0300Z

***** All Obstruction NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

!OSU 12/030 Ohio State University, Columbus, OH (KOSU) Obstruction tower light (Antenna Structure Registration 1239194) 40° 10' 43.80" North 083° 00' 56.00" West (6.5 Nautical miles north-north-east OSU) 1253.0 Feet (294.9 Feet above ground level) out of service Dec 18, 2016 1302Z to Jan 18, 2017 0802Z Estimated

!OSU 11/003 Ohio State University, Columbus, OH (KOSU) Obstruction tower light (Antenna Structure Registration 1054358) 40° 09' 33.00" North 082° 55' 23.00" West (8.4 Nautical miles NE OSU) 2027.9 Feet (1107.0 Feet above ground level) out of service Nov 04, 2016 2312Z to Jan 03, 2017 2312Z

!TZR 12/044 Bolton Field, Columbus, OH (KTZR) Obstruction tower light (Antenna Structure Registration 1014749) 39° 49' 09.90" North 083° 03' 43.30" West (6.0 Nautical miles southeast TZR) 1085.0 Feet (294.0 Feet above ground level) out of service Dec 17, 2016 0730Z to Jan 01, 2017 0729Z

!DAY 12/191 Columbus Southwest, Columbus, OH (K04I) Obstruction tower light (Antenna Structure Registration 1215179) 40° 00' 58.70" North 083° 18' 18.50" West (8.2 Nautical miles northwest 04I) 1246.1 Feet (291.0 Feet above ground level) out of service Dec 14, 2016 2047Z to Jan 13, 2017 0800Z

!LCK 11/019 Rickenbacker International, Columbus, OH (KLCK) Obstruction crane (Aeronautical Study Number unknown) 394740N0825637W (0.5 Nautical miles S approach end runway 05 right) unknown (110FT above ground level) flagged and lighted Nov 30, 2016 1248Z to Dec 31, 2016 2300Z

!DAY 12/086 Madison County, London, OH (KUYF) Obstruction tower light (Antenna Structure Registration 1055089) 39° 52' 39.00" North 083° 27' 51.00" West (3.3 Nautical miles S UYF) 1339.2 Feet (291.3 Feet above ground level) out of service Dec 08, 2016 2258Z to Jan 08, 2017 2100Z

!DAY 12/348 Delaware Muni-Jim Moore Field, Delaware, OH (KDLZ) Obstruction tower light (Antenna Structure Registration 1012511) 40° 16' 12.00" North 083° 04' 55.00" West (1.6 Nautical miles east-south-east DLZ) 1109.6 Feet (184.7 Feet above ground level) out of service Dec 20, 2016 0951Z to Jan 11, 2017 2359Z

!CMH 12/397 Port Columbus International, Columbus, OH (KCMH) Obstruction tower light (Antenna Structure Registration 1210204) 40° 05' 12.50" North 082° 44' 02.90" West (9.1 Nautical mile NE CMH) 1429.8 Feet (256.9 Feet above ground level) out of service Dec 29, 2016 1020Z to Jan 13, 2017 1019Z

!CMH 12/097 Port Columbus International, Columbus, OH (KCMH) Obstruction crane
(Aeronautical Study Number 2016-above ground level-8453-NRA) 400032N0825404W (0.8
Nautical miles north-north-west CMH) 980 feet (160FT above ground level) flagged and lighted
Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 12/096 Port Columbus International, Columbus, OH (KCMH) Obstruction crane
(Aeronautical Study Number 2016-above ground level-8454-NRA) 400033N0825404W (0.8
Nautical miles north-north-west CMH) 980 feet (160FT above ground level) flagged and lighted
Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 12/095 Port Columbus International, Columbus, OH (KCMH) Obstruction crane
(Aeronautical Study Number 2016-above ground level-8455-NRA) 400032N0825404W (0.8
Nautical miles north-north-west CMH) 980 feet (160FT above ground level) flagged and lighted
Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 12/094 Port Columbus International, Columbus, OH (KCMH) Obstruction crane
(Aeronautical Study Number 2016-above ground level-8456-NRA) 400033N0825404W (0.8
Nautical miles north-north-west CMH) 980 feet (160FT above ground level) flagged and lighted
Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 12/093 Port Columbus International, Columbus, OH (KCMH) Obstruction crane
(Aeronautical Study Number 2016-above ground level-8457-NRA) 400033N0825403W (0.8
Nautical miles north-north-west CMH) 980 feet (160FT above ground level) flagged and lighted
Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 12/092 Port Columbus International, Columbus, OH (KCMH) Obstruction crane
(Aeronautical Study Number 2016-above ground level-8458-NRA) 400034N0825403W (0.9
Nautical miles north-north-west CMH) 979 feet (160FT above ground level) flagged and lighted
Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 12/091 Port Columbus International, Columbus, OH (KCMH) Obstruction crane
(Aeronautical Study Number 2016-above ground level-8459-NRA) 400034N0825402W (0.8
Nautical miles north-north-west CMH) 980 feet (160FT above ground level) flagged and lighted
Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 12/090 Port Columbus International, Columbus, OH (KCMH) Obstruction crane
(Aeronautical Study Number 2016-above ground level-8460-NRA) 400034N0825402W (0.8
Nautical miles north-north-west CMH) 980 feet (160FT above ground level) flagged and lighted
Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 12/089 Port Columbus International, Columbus, OH (KCMH) Obstruction crane
(Aeronautical Study Number 2016-above ground level-8461-NRA) 400034N0825400W (0.8
Nautical miles north-north-west CMH) 978 feet (160FT above ground level) flagged and lighted
Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 12/088 Port Columbus International, Columbus, OH (KCMH) Obstruction crane

(Aeronautical Study Number 2016-above ground level-8462-NRA) 400033N0825400W (0.8 Nautical miles north-north-west CMH) 980 feet (160FT above ground level) flagged and lighted Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 12/087 Port Columbus International, Columbus, OH (KCMH) Obstruction crane (Aeronautical Study Number 2016-above ground level-8463-NRA) 400033N0825360W (0.8 Nautical miles north-north-west CMH) 979 feet (160FT above ground level) flagged and lighted Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 12/086 Port Columbus International, Columbus, OH (KCMH) Obstruction crane (Aeronautical Study Number 2016-above ground level-8464-NRA) 400032N0825360W (0.8 Nautical miles north-north-west CMH) 980 feet (160FT above ground level) flagged and lighted Dec 12, 2016 1200Z to Jan 13, 2017 2300Z

!CMH 03/004 Port Columbus International, Columbus, OH (KCMH) Obstruction crane (Aeronautical Study Number 2015-above ground level-17409-OE) 395837N0825030W (2.6 Nautical miles east-south-east CMH) 1,030 feet (184FT above ground level) flagged and lighted Mar 03, 2016 2019Z to Aug 02, 2017 2359Z

!DAY 12/462 Miller Farm Landing Strip, Baltimore, OH (K7B4) Obstruction tower light (Antenna Structure Registration 1208564) 39° 58' 06.40" North 082° 36' 09.80" West (5.1 Nautical mile N 7B4) 1256.9 Feet (295.9 Feet above ground level) out of service Dec 29, 2016 0540Z to Jan 29, 2017 1300Z

!DAY 12/417 Miller Farm Landing Strip, Baltimore, OH (K7B4) Obstruction tower light (Antenna Structure Registration 1262295) 39° 59' 45.50" North 082° 39' 10.50" West (7.3 Nautical miles north-north-west 7B4) 1330.7 Feet (298.9 Feet above ground level) out of service Dec 24, 2016 1120Z to Jan 08, 2017 1119Z

!CLE 12/493 Chapman Memorial Field, Centerburg, OH (K6CM) Obstruction tower light (Antenna Structure Registration 1055213) 40° 18' 58.10" North 082° 40' 35.60" West (2.7 Nautical miles east-north-east 6CM) 1515.1 Feet (264.1 Feet above ground level) out of service Dec 16, 2016 0900Z to Jan 16, 2017 0900Z

!CLE 12/137 Chapman Memorial Field, Centerburg, OH (K6CM) Obstruction tower light (Antenna Structure Registration 1006828) 40° 22' 46.70" North 082° 49' 16.20" West (6.5 Nautical miles northwest 6CM) 1545.9 Feet (415.0 Feet above ground level) out of service Dec 07, 2016 2348Z to Jan 06, 2017 1700Z

!CLE 12/924 Morrow County, Mount Gilead, OH (K4I9) Obstruction tower light (Antenna Structure Registration 1224339) 40° 32' 32.80" North 082° 39' 39.30" West (8.7 Nautical miles E 4I9) 1589.9 Feet (289.0 Feet above ground level) out of service Dec 29, 2016 0544Z to Jan 13, 2017 0444Z

!VTA 12/011 Newark-Heath, Newark, OH (KVTA) Obstruction tower light (Antenna Structure Registration 1248567) 39° 55' 21.40" North 082° 24' 27.20" West (6.6 Nautical miles south-

south-east VTA) 1223.1 Feet (312.0 Feet above ground level) out of service Dec 27, 2016 1511Z to Jan 27, 2017 1511Z

!VTA 12/010 Newark-Heath, Newark, OH (KVTA) Obstruction tower light (Antenna Structure Registration 1020461) 40° 06' 38.50" North 082° 28' 12.40" West (5.2 Nautical miles N VTA) 1531.2 Feet (411.1 Feet above ground level) out of service Dec 22, 2016 1917Z to Jan 24, 2017 1529Z Estimated

!VTA 12/006 Newark-Heath, Newark, OH (KVTA) Obstruction tower light (Antenna Structure Registration 1242263) 39° 59' 15.70" North 082° 28' 54.30" West (2.4 Nautical miles south-south-west VTA) 1185.0 Feet (305.8 Feet above ground level) out of service Dec 12, 2016 1431Z to Jan 12, 2017 1200Z

!VTA 08/006 Newark-Heath, Newark, OH (KVTA) Obstruction tower light (Antenna Structure Registration 1019246) 39° 56' 48.00" North 082° 24' 26.00" West (5.3 Nautical miles south-south-east VTA) 1580.1 Feet (500.0 Feet above ground level) out of service Aug 10, 2016 1557Z to Aug 10, 2017 1555Z

!CLE 12/856 Knox County, Mount Vernon, OH (K4I3) Obstruction tower light (Antenna Structure Registration 1266827) 40° 12' 14.70" North 082° 35' 02.50" West (8.0 Nautical miles south-south-west 4I3) 1524.9 Feet (410.1 Feet above ground level) out of service Dec 23, 2016 1516Z to Jan 23, 2017 1516Z

!CLE 12/584 Wynkoop, Mount Vernon, OH (K6G4) Obstruction tower light (Antenna Structure Registration 1239511) 40° 23' 03.10" North 082° 29' 14.00" West (1.2 Nautical miles north-north-east 6G4) 1240.8 Feet (260.8 Feet above ground level) out of service Dec 18, 2016 0242Z to Jan 02, 2017 0242Z

!CLE 12/152 Wynkoop, Mount Vernon, OH (K6G4) Obstruction tower light (Antenna Structure Registration 1209744) 40° 30' 41.00" North 082° 20' 48.50" West (11.2 Nautical miles NE 6G4) 1702.8 Feet (405.8 Feet above ground level) out of service Dec 09, 2016 0626Z to Jan 09, 2017 1200Z

!CLE 12/330 Coshocton-Richard Downing, Coshocton, OH (KI40) Obstruction tower light (Antenna Structure Registration 1211438) 40° 20' 45.00" North 082° 03' 54.00" West (9.9 Nautical miles west-north-west I40) 1519.0 Feet (419.9 Feet above ground level) out of service Dec 12, 2016 1737Z to Jan 12, 2017 1200Z

!CLE 12/914 Holmes County, Millersburg, OH (K10G) Obstruction tower light (Antenna Structure Registration 1295291) 40° 38' 15.30" North 082° 13' 05.60" West (13.3 Nautical miles west-north-west 10G) 1342.8 Feet (359.9 Feet above ground level) out of service Dec 28, 2016 1803Z to Jan 28, 2017 1803Z

!CLE 12/450 Holmes County, Millersburg, OH (K10G) Obstruction tower light (Antenna Structure Registration 1281688) 40° 38' 12.20" North 081° 57' 03.50" West (6.0 Nautical miles NE 10G) 1203.7 Feet (256.9 Feet above ground level) out of service Dec 15, 2016 2024Z to Dec

30, 2016 2024Z

!CLE 12/869 Beach City, Beach City, OH (K2D7) Obstruction tower light (Antenna Structure Registration 1211239) 40° 43' 44.00" North 081° 25' 16.10" West (7.9 Nautical miles NE 2D7) 1501.0 Feet (280.8 Feet above ground level) out of service Dec 24, 2016 0614Z to Jan 24, 2017 1300Z

!CLE 12/509 Beach City, Beach City, OH (K2D7) Obstruction tower light (Antenna Structure Registration 1013516) 40° 43' 15.00" North 081° 26' 27.00" West (6.9 Nautical miles NE 2D7) 1493.8 Feet (393.7 Feet above ground level) out of service Dec 16, 2016 1859Z to Dec 31, 2016 1859Z

!BJJ 12/015 Wayne County, Wooster, OH (KBJJ) Obstruction tower light (Antenna Structure Registration 1014614) 40° 47' 52.00" North 081° 54' 26.00" West (4.7 Nautical miles S BJJ) 1419.9 Feet (355.0 Feet above ground level) out of service Dec 19, 2016 2214Z to Jan 03, 2017 2213Z

!BJJ 12/012 Wayne County, Wooster, OH (KBJJ) Obstruction tower light (Antenna Structure Registration 1018848) 40° 49' 40.20" North 081° 52' 11.50" West (2.9 Nautical miles south-south-east BJJ) 1430.1 Feet (314.0 Feet above ground level) out of service Dec 14, 2016 1808Z to Jan 14, 2017 1808Z

!CLE 12/880 Stark County Sheriff, Canton, OH (K5D1) Obstruction tower light (Antenna Structure Registration 1242890) 40° 49' 22.00" North 081° 25' 40.00" West (5.5 Nautical miles W 5D1) 1465.9 Feet (373.0 Feet above ground level) out of service Dec 25, 2016 2038Z to Jan 09, 2017 2038Z

!CLE 12/873 Stark County Sheriff, Canton, OH (K5D1) Obstruction tower light (Antenna Structure Registration 1235312) 40° 49' 56.20" North 081° 15' 58.00" West (1.9 Nautical miles east-south-east 5D1) 1352.7 Feet (247.7 Feet above ground level) out of service Dec 24, 2016 2242Z to Jan 08, 2017 2241Z

!CLE 12/923 Mayfield, Akron, OH (K1D4) Obstruction tower light (Antenna Structure Registration 1227876) 40° 57' 10.20" North 081° 19' 18.90" West (5.5 Nautical miles east-south-east 1D4) 1546.3 Feet (377.0 Feet above ground level) out of service Dec 29, 2016 0522Z to Jan 13, 2017 0521Z

!CLE 12/383 Mayfield, Akron, OH (K1D4) Obstruction tower light (Antenna Structure Registration 1019655) 40° 57' 52.20" North 081° 28' 41.40" West (2.7 Nautical miles southwest 1D4) 1463.9 Feet (197.8 Feet above ground level) out of service Dec 14, 2016 1754Z to Jan 14, 2017 1754Z

!CLE 12/086 Wadsworth Municipal, Wadsworth, OH (K3G3) Obstruction tower light (Antenna Structure Registration 1018853) 40° 59' 00.60" North 081° 41' 03.20" West (3.5 Nautical miles east-south-east 3G3) 1551.8 Feet (404.9 Feet above ground level) out of service Dec 06, 2016 1422Z to Jan 06, 2017 1422Z

!AKR 12/153 Akron Fulton International, Akron, OH (KAKR) Obstruction tower light (Antenna Structure Registration 1011891) 41° 03' 11.10" North 081° 35' 06.40" West (5.4 Nautical miles W AKR) 1378.0 Feet (298.9 Feet above ground level) out of service Dec 20, 2016 2232Z to Jan 04, 2017 0500Z

!CLE 12/930 Medina Municipal, Medina, OH (K1G5) Obstruction tower light (Antenna Structure Registration 1025435) 41° 08' 06.00" North 081° 44' 53.00" West (0.8 Nautical miles east-north-east 1G5) 1281.8 Feet (149.9 Feet above ground level) out of service Dec 29, 2016 1242Z to Jan 13, 2017 1241Z

!CLE 12/877 Medina Municipal, Medina, OH (K1G5) Obstruction antenna light (Aeronautical Study Number 2011-above ground level-3630-OE) 410825N0815000W (3.1 Nautical mile W 1G5) 1,171 feet (199FT above ground level) out of service Dec 25, 2016 1602Z to Jan 25, 2017 1601Z

!CLE 10/732 Medina Municipal, Medina, OH (K1G5) Obstruction tower light (Antenna Structure Registration 1018464) 41° 04' 58.00" North 081° 38' 01.00" West (6.6 Nautical miles east-south-east 1G5) 2044.9 Feet (924.9 Feet above ground level) out of service Oct 31, 2016 1725Z to Jan 31, 2017 1725Z

!CLE 12/942 Botsford, Wellington, OH (K67D) Obstruction tower light (Antenna Structure Registration 1251479) 41° 06' 35.90" North 082° 06' 52.90" West (5.0 Nautical miles southeast 67D) 1133.9 Feet (258.9 Feet above ground level) out of service Dec 29, 2016 1811Z to Feb 02, 2017 1811Z

!CLE 12/905 Portage County, Ravenna, OH (KPOV) Obstruction tower light (Antenna Structure Registration 1234233) 41° 18' 43.90" North 081° 20' 55.60" West (7.5 Nautical miles northwest POV) 1332.0 Feet (167.0 Feet above ground level) out of service Dec 28, 2016 0104Z to Jan 12, 2017 0103Z

!CLE 12/832 Portage County, Ravenna, OH (KPOV) Obstruction tower light (Antenna Structure Registration 1011195) 41° 09' 58.00" North 081° 15' 23.00" West (2.7 Nautical miles S POV) 1300.9 Feet (214.9 Feet above ground level) out of service Dec 22, 2016 0014Z to Jan 20, 2017 2359Z

!CLE 12/767 Portage County, Ravenna, OH (KPOV) Obstruction tower light (Antenna Structure Registration 1215411) 41° 18' 28.80" North 081° 16' 41.60" West (6.0 Nautical miles north-north-west POV) 1450.1 Feet (295.3 Feet above ground level) out of service Dec 20, 2016 1502Z to Jan 04, 2017 1501Z

!CLE 12/915 Cleveland-Hopkins International, Cleveland, OH (KCLE) Obstruction tower light (Antenna Structure Registration 1050656) 41° 22' 18.00" North 081° 43' 03.00" West (6.5 Nautical miles east-south-east CLE) 1419.0 Feet (311.0 Feet above ground level) out of service Dec 28, 2016 1932Z to Jan 12, 2017 1931Z

!CLE 12/490 Cleveland-Hopkins International, Cleveland, OH (KCLE) Obstruction tower light (Antenna Structure Registration 1035491) 41° 18' 53.10" North 081° 45' 33.40" West (7.1 Nautical mile southeast CLE) 1158.8 Feet (258.9 Feet above ground level) out of service Dec 16, 2016 0812Z to Dec 31, 2016 0500Z

!CLE 11/069 Cleveland-Hopkins International, Cleveland, OH (KCLE) Obstruction stack (Aeronautical Study Number 2014-above ground level-13448-OE) 412445N0814934W (1.0 Nautical miles NE CLE) 938 feet (150FT above ground level) not lighted Nov 07, 2016 1300Z-permanent

!CGF 12/150 Cuyahoga County, Cleveland, OH (KCGF) Obstruction tower light (Antenna Structure Registration 1062212) 41° 31' 14.00" North 081° 29' 17.00" West (2.7 Nautical miles S CGF) 1226.0 Feet (200.1 Feet above ground level) out of service Dec 26, 2016 1208Z to Jan 10, 2017 1208Z

!CLE 12/908 Painesville/Concord Airpark, Painesville, OH (K2G1) Obstruction tower light (Antenna Structure Registration 1256271) 41° 46' 37.60" North 081° 09' 35.60" West (6.9 Nautical miles north-north-east 2G1) 885.5 Feet (228.7 Feet above ground level) out of service Dec 28, 2016 1117Z to Jan 12, 2017 1017Z

!CLE 10/173 Painesville/Concord Airpark, Painesville, OH (K2G1) Obstruction tower (Aeronautical Study Number unknown) 414804N0810825W (8.3 Nautical miles north-north-east 2G1) 1,138 feet (514FT above ground level) not lighted Aug 05, 2015 1247Z-permanent Oct 09, 2015 2138Z-permanent

!MLC 06/040 HAX Obstruction tower light (Aeronautical Study Number 2013-ASW-8147-OE) 354739N0951659W (7.0 Nautical miles east-north-east HAX) 764 feet (250FT above ground level) out of service Jun 03, 2016 1414Z to May 31, 2017 2200Z

!MLC 06/039 HAX Obstruction tower light (Aeronautical Study Number 2013-ASW-8148-OE) 354755N0951659W (7.1 Nautical mile east-north-east HAX) 763 feet (250FT above ground level) out of service Jun 03, 2016 1412Z to May 31, 2017 2200Z

!MLC 06/038 HAX Obstruction tower light (Aeronautical Study Number 2013-ASW-8150-OE) 354808N0951846W (5.9 Nautical miles NE HAX) 731 feet (215FT above ground level) out of service Jun 03, 2016 1411Z to May 31, 2017 2200Z

!BKL 12/137 Burke Lakefront, Cleveland, OH (KBKL) Obstruction tower light (Antenna Structure Registration 1219643) 41° 29' 13.20" North 081° 41' 01.10" West (1.9 Nautical miles S BKL) 1083.0 Feet (500.0 Feet above ground level) out of service Dec 28, 2016 2230Z to Jan 28, 2017 2230Z

!BKL 12/136 Burke Lakefront, Cleveland, OH (KBKL) Obstruction tower light (Antenna Structure Registration 1027997) 41° 31' 54.80" North 081° 38' 04.20" West (2.3 Nautical miles east-north-east BKL) 761.8 Feet (134.8 Feet above ground level) out of service Dec 25, 2016 1533Z to Jan 09, 2017 1532Z

!BKL 04/031 Burke Lakefront, Cleveland, OH (KBKL) Obstruction crane (Aeronautical Study Number 2016-above ground level-4496-OE) 413018N0813713W (2.9 Nautical miles east-south-east BKL) 901 feet (225FT above ground level) flagged and lighted Apr 28, 2016 1000Z to Mar 25, 2017 2000Z

***** All Airspace NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

!CAK 12/027 Akron Canton Regional, Akron, OH (KCAK) Airspace see ACO 12/026 airdrop Tuesday Thursday 1500-0230 Dec 31, 2015 1954Z to Jan 02, 2017 0230Z Estimated

!AKR 12/008 Akron Fulton International, Akron, OH (KAKR) Airspace see ACO 12/026 airdrop Tuesday Thursday 1500-0230 Dec 31, 2015 1951Z to Jan 02, 2017 0230Z Estimated

!CAK 12/026 Atico (ACO) Airspace airdrop WI an area defined as 3 nautical miles either side of A line from ACO154017 to ACO018010 to ACO036013 surface-3,000 feet Tuesday Thursday 1500-0230 Dec 31, 2015 1939Z to Jan 02, 2017 0230Z Estimated

!CLE 12/544 Kent State University, Kent, OH (K1G3) Airspace see ACO 12/026 airdrop Tuesday Thursday 1500-0230 Dec 31, 2015 1956Z to Jan 02, 2017 0230Z Estimated

!CLE 12/543 Portage County, Ravenna, OH (KPOV) Airspace see ACO 12/026 airdrop Tuesday Thursday 1500-0230 Dec 31, 2015 1955Z to Jan 02, 2017 0230Z Estimated

!HUF 05/185 KZID Airspace unmanned aircraft system WI an area defined as 7 nautical miles radius of LWV060021 (14NM southeast SIV) surface-400 feet above ground level daily 1200-2359 May 11, 2016 1200Z to Apr 30, 2017 2359Z

!HUF 05/112 KZID Airspace unmanned aircraft system WI an area defined as 5 nautical miles radius of PXV040029 (17NM NE EVV) surface-400 feet above ground level daily 1200-2359 May 09, 2016 1200Z to Apr 30, 2017 2359Z

!HUF 05/110 KZID Airspace unmanned aircraft system WI an area defined as 5 nautical miles radius of PXV030027 (16NM NE EVV) surface-400 feet above ground level May 09, 2016 1200Z to Apr 30, 2017 2359Z

!HUF 10/155 KZID Airspace unmanned aircraft system WI an area defined as 1 nautical mile either side of A line from 392416N0862709W to 391250N0863405W surface-200 feet above ground level Monday-Friday 1030-2000 Oct 12, 2015 1030Z to Apr 28, 2017 2000Z

!CLE 12/890 KZOB Airspace unmanned aircraft system WI an area defined as .5 Nautical miles radius of 423310N0825801W (9NM E VLL) surface-200 feet above ground level daily 1300-2200 Dec 27, 2016 1300Z to Dec 31, 2016 2200Z

***** All Special Use Airspace NOTAMs *****

!SUAC 12/728 KZID Airspace R3704A active surface-10,000 feet Dec 30, 2016 0501Z to Dec 30, 2016 1059Z

!SUAC 10/660 KZID Airspace R3404 active surface-4,100 feet Nov 01, 2016 2247Z to Dec 31, 2016 2359Z

***** All Unverified Aeronautical Information NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

No current Unverified Aeronautical Information NOTAMs data for this briefing.

***** All Other NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

No current Other NOTAMs data for this briefing.

***** All NOTAMs without keywords *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

!YUL 12/102 SK3 CSK3 amend published: aerodrome permanently closed Dec 19, 2016 1435Z-permanent

!ZNB 11/032 ZNB CZNB remote communications outlet 126.7, 364.2, 121.5 And 243.0 At Dewar Lakes unreliable Nov 15, 2016 2126Z to Dec 30, 2016 2359Z Estimated

***** All FDC NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

!FDC 6/4726 OH01 IAP GRANT MEDICAL CENTER, COLUMBUS, OH. COPTER RNAV (GPS) 324, ORIG... PROCEDURE NA. 28 JUL 19:43 2016 UNTIL 09 MAR 19:41 2017 ESTIMATED. CREATED: 28 JUL 19:43 2016

!FDC 6/1360 KDLZ IAP DELAWARE MUNI - JIM MOORE FIELD, DELAWARE, OH. RNAV (GPS) RWY 28, ORIG... LPV DA NA. LNAV/VNAV DA NA. LNAV MDA NA. 20 NOV 19:20 2016 UNTIL 02 JUL 19:20 2017 ESTIMATED. CREATED: 20 NOV 19:20 2016

!FDC 6/1353 KDLZ IAP DELAWARE MUNI - JIM MOORE FIELD, DELAWARE, OH. VOR

RWY 28, ORIG-A... S-28 MINIMUMS NA. 20 NOV 19:19 2016 UNTIL 02 JUL 19:19 2017 ESTIMATED. CREATED: 20 NOV 19:19 2016

!FDC 6/1350 KDLZ ODP DELAWARE MUNI - JIM MOORE FIELD, DELAWARE, OH. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES ORIG... TAKE-OFF MINIMUMS: RWY 10 NA. ALL OTHER DATA REMAINS AS PUBLISHED. 20 NOV 19:18 2016 UNTIL 02 JUL 19:18 2017 ESTIMATED. CREATED: 20 NOV 19:18 2016

!FDC 6/1254 K419 IAP MORROW COUNTY, MOUNT GILEAD, OH. VOR-A, AMDT 4... NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. 20 NOV 15:42 2016 UNTIL 02 JUL 15:42 2017 ESTIMATED. CREATED: 20 NOV 15:42 2016

!FDC 6/5204 KVTA IAP NEWARK-HEATH, NEWARK, OH. LOC RWY 9, ORIG... NOTE: STRAIGHT-IN RWY 9 NA AT NIGHT, CIRCLING RWY 9 NA AT NIGHT. NOTE: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. 27 DEC 22:34 2016 UNTIL 08 AUG 22:34 2017 ESTIMATED. CREATED: 27 DEC 22:34 2016

!FDC 6/5202 KVTA ODP NEWARK-HEATH, NEWARK, OH. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 2... TAKE-OFF MINIMUMS RWY 27: 400-2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 215 FT PER NM TO 1200, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1600 FEET PRIOR TO DER. ALL OTHER DATA REMAINS AS PUBLISHED. 27 DEC 22:33 2016 UNTIL 08 AUG 22:33 2017 ESTIMATED. CREATED: 27 DEC 22:33 2016

!FDC 6/6937 5OH1 SPECIAL SAMARITAN HOSPITAL, ASHLAND, OH. COPTER RNAV (GPS) 022, ORIG... IFR DEPARTURE NA. 11 OCT 16:44 2016 UNTIL 23 MAY 16:44 2017 ESTIMATED. CREATED: 11 OCT 16:45 2016

!FDC 6/6663 K2D7 IAP BEACH CITY, BEACH CITY, OH. VOR OR GPS-A, AMDT 1... PROCEDURE NA. 12 NOV 14:21 2016 UNTIL 24 JUN 14:21 2017 ESTIMATED. CREATED: 12 NOV 14:21 2016

!FDC 6/3401 KBJJ ODP WAYNE COUNTY, WOOSTER, OH. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 1... TAKEOFF OBSTACLE NOTES: NOTE: RWY 10, BLDG 1 FT FROM DER, 462 FT LEFT OF CENTERLINE, 25 FT AGL/1156 MSL. VEHICLES ON ROAD BEGINNING 11 FT FROM DER, LEFT AND RIGHT OF CENTERLINE UP TO 15 FT AGL/1143 FT MSL. POLE 127 FT FROM DER, 509 FT RIGHT OF CENTERLINE, 34 FT AGL/1159 FT MSL. POLES BEGINNING 166 FT FROM DER, 227 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/1161 FT MSL. NOTE: RWY 28, BUSH 44 FT FROM DER, 467 FT RIGHT OF CENTERLINE 5 FT AGL/1116 FT MSL. TREE 1243 FT FROM DER, 813 FT LEFT OF CENTERLINE 55 FT AGL/1177 FT MSL. TREES BEGINNING 1337 FT FROM DER, 616 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/1187 FT MSL. TREES BEGINNING 1631 FT FROM DER, 880 FT LEFT OF CENTERLINE, UP TO 65 FT AGL/1192 FT MSL. TREES BEGINNING 1858 FT FROM DER, 400 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/1209 FT MSL. TREES

BEGINNING 2584 FT FROM DER, 229 FT RIGHT OF CENTERLINE, UP TO 85 FT AGL/1203 FT MSL. TREES BEGINNING 3907 FT FROM DER, 895 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/1232 FT MSL. TREES BEGINNING 4332 FT FROM DER, 921 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1259 FT MSL. ALL OTHER DATA REMAINS AS PUBLISHED. 19 OCT 21:12 2016 UNTIL 31 MAY 21:12 2017 ESTIMATED. CREATED: 19 OCT 21:12 2016

!FDC 6/1165 KAKR IAP AKRON FULTON INTL, AKRON, OH. LOC RWY 25, AMDT 13B... S-25 MDA 1560/HAT 501 ALL CATS. VISIBILITY CAT C 1 3/8. TERMINAL ROUTE RITZS TO AKRON LOM (IAF) MINIMUM ALTITUDE 3100. CHANGE TDZE FROM 1048 TO 1059. ADD NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. ADD NOTE: PROCEDURE NA AT NIGHT. 17 OCT 12:51 2016 UNTIL 29 MAY 12:51 2017 ESTIMATED. CREATED: 17 OCT 12:52 2016

!FDC 6/1586 K1G5 IAP MEDINA MUNI, MEDINA, OH. RNAV (GPS) RWY 27, ORIG-A... RNAV (GPS) RWY 9, ORIG-B... DISREGARD NOTE: 3.04/TCH 40 CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES. 20 NOV 23:05 2016 UNTIL 02 JUL 23:05 2017 ESTIMATED. CREATED: 20 NOV 23:05 2016

!FDC 6/5438 K1G3 IAP KENT STATE UNIV, KENT, OH. RNAV (GPS) RWY 1, AMDT 1A... RNAV (GPS) RWY 19, AMDT 1A... NOTE: NIGHT LANDING: RWY 1 NA. 01 DEC 18:21 2016 UNTIL 13 JUL 18:21 2017 ESTIMATED. CREATED: 01 DEC 18:21 2016

!FDC 6/6772 KCLE STAR HOPKINS INTL, CLEVELAND, OH. ZABER FOUR ARRIVAL... DME REQUIRED AT ZABER AND JAKEE, DISREGARD SKY VOR/DME (DECOMMISSIONED). 18 AUG 15:30 2016 UNTIL 18 FEB 11:30 2017 ESTIMATED. CREATED: 18 AUG 15:17 2016

!FDC 6/8609 KCGF IAP CUYAHOGA COUNTY, CLEVELAND, OH. RNAV (GPS) RWY 6, AMDT 1A... LPV DA NA. LNAV/VNAV DA NA. CHANGE HELICOPTER NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. 07 DEC 22:19 2016 UNTIL 19 JUL 22:19 2017 ESTIMATED. CREATED: 07 DEC 22:20 2016

!FDC 6/6800 22ME SPECIAL Bar Harbor Heliport, BAR HARBOR, ME. COPTER RNAV (GPS) 022 DEPARTURE (PILOT NAV), ORIG ... PROCEDURE NA. 12 NOV 22:10 2016 UNTIL 24 JUN 22:10 2017 ESTIMATED. CREATED: 12 NOV 22:11 2016

!FDC 6/0671 2ME2 SPECIAL NORTH HAVEN, NORTH HAVEN, ME. COPTER RNAV (GPS) 135 DEPARTURE (PILOT NAV), ORIG...PROCEDURE NA. 14 OCT 18:00 2016 UNTIL 26 MAY 18:00 2017. CREATED: 14 OCT 17:54 2016

!FDC 5/8197 2ME2 SPECIAL NORTH HAVEN, NORTH HAVEN, ME. COPTER RNAV (GPS) 135 DEPARTURE (PILOT NAV), ORIG ... PROCEDURE NA. 25 NOV 19:51 2015 UNTIL 23 MAY 19:51 2016 ESTIMATED. CREATED: 25 NOV 19:51 2015

!FDC 6/0672 4ME9 SPECIAL NORWAY HELIPOINT, NORWAY, ME. COPTER RNAV

(GPS) 024 DEPARTURE (PILOT NAV), ORIG... PROCEDURE NA. 14 OCT 18:00 2016
UNTIL 26 MAY 18:00 2017. CREATED: 14 OCT 17:55 2016

!FDC 5/8198 4ME9 SPECIAL NORWAY HELIPORT, NORWAY, ME. COPTER RNAV
(GPS) 024 DEPARTURE (PILOT NAV) , ORIG ... PROCEDURE NA. 25 NOV 19:53 2015
UNTIL 23 MAY 19:53 2016 ESTIMATED. CREATED: 25 NOV 19:53 2015

!FDC 6/6889 4OH2 SPECIAL , , . COPTER RNAV (GPS) 160, AMDT 1... IFR DEPARTURE
NA. 11 OCT 16:12 2016 UNTIL 23 MAY 16:12 2017 ESTIMATED. CREATED: 11 OCT
16:12 2016

!FDC 6/5310 4OH2 IAP , , . COPTER RNAV (GPS) 160, AMDT 1... PROCEDURE NA. 29
JUL 21:07 2016 UNTIL 10 MAR 21:07 2017 ESTIMATED. CREATED: 29 JUL 21:07 2016

!FDC 6/1298 9LA3 SPECIAL , LEEVILLE, LA. COPTER RNAV (GPS) 180, AMDT 1...
COPTER RNAV (GPS) 274, AMDT 1... PROCEDURE NA. IFR DEPARTURE NA. 02 NOV
15:01 2016 UNTIL 14 JUN 15:01 2017 ESTIMATED. CREATED: 02 NOV 15:01 2016

!FDC 6/3118 CN52 IAP OROVILLE HOSPITAL, OROVILLE, CA. COPTER RNAV (GPS)
091, AMDT 1... PROCEDURE NA. 19 OCT 17:19 2016 UNTIL 31 MAY 17:19 2017
ESTIMATED. CREATED: 19 OCT 17:19 2016

!FDC 6/3113 CN52 SPECIAL OROVILLE HOSPITAL, OROVILLE, CA. COPTER RNAV
(GPS) 090, ORIG... LNAV MDA 680/HAS 316, VISIBILITY 3/4 MILE. 26 AUG 19:58 2016
UNTIL 07 APR 19:58 2017 ESTIMATED. CREATED: 26 AUG 19:58 2016

!FDC 6/6964 ME21 SPECIAL CHEBEAGUE ISLAND, CHEBEAGUE ISLAND, ME.
COPTER RNAV (GPS) 158 DEPARTURE (PILOT NAV), ORIG ... PROCEDURE NA. 13
NOV 14:46 2016 UNTIL 25 JUN 14:46 2017 ESTIMATED. CREATED: 13 NOV 14:46 2016

!FDC 5/8097 ME21 SPECIAL CHEBEAGUE ISLAND, CHEBEAGUE ISLAND, ME.
COPTER RNAV (GPS) 158 DEPARTURE (PILOT NAV), ORIG ... PROCEDURE NA. 25
NOV 17:53 2015 UNTIL 23 MAY 17:52 2016 ESTIMATED. CREATED: 25 NOV 17:53 2015

!FDC 6/6892 ME77 SPECIAL CRANBERRY ISLES, CRANBERRY ISLES, ME. COPTER
RNAV (GPS) 129 DEPARTURE (PILOT NAV), ORIG ... PROCEDURE NA. 12 NOV 23:15
2016 UNTIL 24 JUN 23:15 2017 ESTIMATED. CREATED: 12 NOV 23:15 2016

!FDC 6/6890 ME77 SPECIAL CRANBERRY ISLES, CRANBERRY ISLES, ME. COPTER
RNAV (GPS) 129 DEPARTURE (PILOT NAV), ORIG ... PROCEDURE NA. 12 NOV 23:03
2016 UNTIL 24 JUN 23:03 2017 ESTIMATED. CREATED: 12 NOV 23:03 2016

!FDC 6/6960 ME98 SPECIAL LONG ISLAND, LONG ISLAND, ME. COPTER RNAV (GPS)
306, ORIG ... IFR DEPARTURE NA. 13 NOV 14:44 2016 UNTIL 25 JUN 14:44 2017
ESTIMATED. CREATED: 13 NOV 14:44 2016

!FDC 6/0662 ME98 SPECIAL LONG ISLAND, LONG ISLAND, ME. COPTER RNAV (GPS)306, ORIG...IFR DEPARTURE NA. 14 OCT 18:00 2016 UNTIL 26 MAY 18:00 2017. CREATED: 14 OCT 17:52 2016

!FDC 5/8159 ME98 SPECIAL LONG ISLAND, LONG ISLAND, ME. COPTER RNAV (GPS) 306, ORIG ... IFR DEPARTURE NA. 25 NOV 18:53 2015 UNTIL 23 MAY 18:52 2016 ESTIMATED. CREATED: 25 NOV 18:53 2015

!FDC 6/1032 ME99 IAP PENETIC SCHOOL HELIPORT, SOUTHWEST HARBOR, ME. COPTER RNAV (GPS) 355, ORIG... PROCEDURE NA. 13 DEC 16:19 2016 UNTIL 25 JUL 16:19 2017 ESTIMATED. CREATED: 13 DEC 16:20 2016

!FDC 6/6883 KBKL IAP BURKE LAKEFRONT, CLEVELAND, OH. RNAV (GPS) RWY 24R, ORIG... LPV DA CAT A/B 1234/HATH 652, VIS CAT A/B 1 3/4 **LPV DA CAT C/D 1169/HATH 587, VIS CAT C/D 1 5/8. CHANGE INOPERATIVE MALSR NOTE TO READ: FOR INOPERATIVE MALSR, INCREASE LPV CAT A/B/C VISIBILITY TO 2 1/2 MILE, AND CAT D TO 3 MILE. INCREASE ** LPV CAT C/D VISIBILITY TO 2 MILES AND INCREASE LNAV CAT A/B VISIBILITY TO 1 1/2 MILES. 12 NOV 23:00 2016 UNTIL 24 JUN 23:00 2017 ESTIMATED. CREATED: 12 NOV 23:00 2016

!FDC 6/6877 KBKL IAP BURKE LAKEFRONT, CLEVELAND, OH. ILS OR LOC RWY 24R, AMDT 1... S-ILS 24R DA 982/HATH 400 ALL CATS, VIS 1 ALL CATS. CHANGE INOPERATIVE MALSR NOTE TO READ: FOR INOPERATIVE MALSR, INCREASE S-ILS 24R ALL CATS VISIBILITY TO 1 3/8 MILE. 12 NOV 22:59 2016 UNTIL 24 JUN 22:59 2017 ESTIMATED. CREATED: 12 NOV 22:59 2016

***** All General FDC NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

!FDC 6/9353 KZID KY..ROUTE ZID ZME. V52 BOWLING GREEN (BWG) VORTAC, KY TO LIVINGSTON (LVT) VORTAC, TN MEA 11000. V52 BOWLING GREEN (BWG) VORTAC, KY MCA 11000 SOUTHEASTBOUND. 13 OCT 16:48 2016 UNTIL 25 MAY 16:47 2017 ESTIMATED. CREATED: 13 OCT 16:48 2016

!FDC 6/9344 KZID KY..ROUTE ZID. V5 LOUISVILLE (IIU) VORTAC, KY MCA 10000 NORTHEASTBOUND. V5 NERVE, KY MCA 10000 SOUTHWESTBOUND. 13 OCT 16:43 2016 UNTIL 25 MAY 16:43 2017 ESTIMATED. CREATED: 13 OCT 16:43 2016

!FDC 6/9341 KZID KY..ROUTE ZID. V53 LOUISVILLE (IIU) VORTAC, KY MCA 10000 NORTHWESTBOUND. V53 HOUSE, IN MCA 10000 SOUTHEASTBOUND. V53 LOUISVILLE (IIU) VORTAC, KY TO HOUSE, IN MOCA NA. 13 OCT 16:41 2016 UNTIL 25 MAY 16:41 2017 ESTIMATED. CREATED: 13 OCT 16:41 2016

!FDC 6/9320 KZID KY..ROUTE ZID ZME. V5 KEDLE, KY TO NEW HOPE (EWO)

VOR/DME, KY MEA 2900. V5 BOWLING GREEN (BWG) VORTAC, KY TO KEDLE, KY NA. 13 OCT 16:14 2016 UNTIL 25 MAY 16:14 2017 ESTIMATED. CREATED: 13 OCT 16:14 2016

!FDC 6/9299 KZID KY..ROUTE ZID. V171 LOUISVILLE (IIU) VORTAC, KY MCA 10000 NORTHWESTBOUND. V171 SCOTO, IN MCA 10000 SOUTHEASTBOUND. V171 LOUISVILLE (IIU) VORTAC, KY TO SCOTO, IN MOCA NA. 13 OCT 15:53 2016 UNTIL 25 MAY 15:53 2017 ESTIMATED. CREATED: 13 OCT 15:53 2016

!FDC 6/8641 KZID OH..AIRSPACE LATHAM, OH..AIRBORNE TO GROUND LASER ACT WILL BE CONDUCTED WI AN AREA DEFINED AS 40NM RADIUS OF 39054017N083144015W (BUCKEYE MOA) 10000FT MSL-FL300. AVOID AIRBORNE HAZARD BY 5 NM Laterally and 1000FT VERTICALLY. THIS BEAM IS INJURIOUS TO PILOTS'/AIRCROWS' AND PASSENGERS' EYES. INDIANAPOLIS /ZID/ ARTCC, TELEPHONE 317-247-2242, IS THE FAA COORDINATION FACILITY. DLY 1400-2000. 13 APR 14:00 2016 UNTIL 30 APR 20:00 2017. CREATED: 13 APR 14:10 2016

!FDC 6/5340 KZID IN..AIRSPACE TERRE HAUTE, IN..AIRBOURNE HAZARD WI AN AREA DEFINED AS 1NM RADIUS OF 385142N864840W (1NM RADIUS OF OOM 211 DEGREE RADIAL AT 19 NM) ELECTROMAGNETIC EMISSIONS SFC-16500FT. NAVAL SURFACE WARFARE CENTER IS IN CHARGE OF ACTIVITY 812-854-5259. INDIANAPOLIS ARTCC/ZID/TELEPHONE 317-247-2243 IS THE FAA COORDINATION FACILITY. AVOIDANCE ADVISED. 29 DEC 23:00 2016 UNTIL 30 DEC 09:00 2016. CREATED: 28 DEC 20:07 2016

!FDC 6/4997 KZID KY..ROUTE ZID ZME. V52 CENTRAL CITY (CCT) VORTAC, KY TO BOWLING GREEN (BWG) VORTAC, KY COP AT BWG R-303 10NM. 20 SEP 12:32 2016 UNTIL 02 MAY 12:32 2017 ESTIMATED. CREATED: 20 SEP 12:32 2016

!FDC 6/4677 KZID KY..ROUTE ZID. V53 IRVIN, KY TO LEXINGTON (HYK) VORTAC, KY MEA 4000. V53 IRVIN, KY MRA 6000. 16 AUG 13:21 2016 UNTIL 21 MAR 13:21 2017 ESTIMATED. CREATED: 16 AUG 13:21 2016

!FDC 6/4159 KZID WV..ROUTE ZID. V59 SOFTY, WV TO BECKLEY (BKW) VORTAC, WV NA ; BKW VOR R-161 UNUSABLE. 20 DEC 22:14 2016 UNTIL 01 AUG 22:14 2017 ESTIMATED. CREATED: 20 DEC 22:14 2016

!FDC 6/4157 KZID WV..ROUTE ZID ZDC. V258 BECKLEY (BKW) VORTAC, WV TO ZOOMS, WV NA ; BKW VOR R-131 UNUSABLE. 20 DEC 22:13 2016 UNTIL 01 AUG 22:13 2017 ESTIMATED. CREATED: 20 DEC 22:13 2016

!FDC 6/4153 KZID WV..ROUTE ZID. V519 BLUEFIELD (BLF) VORTAC, WV TO BECKLEY (BKW) VORTAC, WV BKW VOR R-193 UNUSABLE; USE BLF R-010. 20 DEC 22:10 2016 UNTIL 01 AUG 22:10 2017 ESTIMATED. CREATED: 20 DEC 22:10 2016

!FDC 6/3591 KZID OH..AIRSPACE YELLOW SPRINGS, OH..LASER LIGHT RESEARCH

PROJECT WILL BE CONDUCTED NEAR YELLOW SPRINGS, OH WI AN AREA DEFINED AS 394737N0835128W OR THE SPRINGFIELD/SGH/VORTAC 193 DEGREE RADIAL AT 3 NM. LASER LIGHT BEAMS WILL BE TERMINATED IF NON-PARTICIPATING AIRCRAFT ARE DETECTED ENTERING THE AFFECTED AREA. FLASH BLINDNESS OR COCKPIT ILLUMINATION MAY OCCUR. INDIANAPOLIS /ZID/ ARTCC, TELEPHONE 317-247-2242, IS THE FAA COORDINATION FACILIY. DLY 0000-2359. 01 APR 15:00 2016 UNTIL 31 DEC 23:59 2016. CREATED: 01 APR 15:08 2016

!FDC 6/3357 KZID IN..ROUTE ZID ZAU. V214 KOKOMO (OKK) VORTAC, IN R-102 TO MARION (MZZ) VOR/DME, IN CHANGE R-102 TO R-097. V305 KOKOMO (OKK) VORTAC, IN R-187 TO WELDO, IN CHANGE R-187 TO R-182. V285, V96 KOKOMO (OKK) VORTAC, IN R-204 TO BRICKYARD (VHP) VORTAC, IN CHANGE R-204 TO R-199. V96 KOKOMO (OKK) VORTAC, IN R-060 TO FORT WAYNE (FWA) VORTAC, IN CHANGE R-060 TO R-055. V285 KOKOMO (OKK) VORTAC, IN R-006 TO GOSHEN (GSH) VORTAC, IN CHANGE R-006 TO R-001. OKK VORTAC MAGVAR. 16 DEC 23:16 2016 UNTIL 28 JUL 23:15 2017 ESTIMATED. CREATED: 16 DEC 23:17 2016

!FDC 6/2846 KZID MI..ROUTE ZID ZOB. J43 ROSEWOOD (ROD) VORTAC, OH TO CARLETON (CRL) VORTAC, MI NA. 19 OCT 15:28 2016 UNTIL 31 MAY 15:27 2017 ESTIMATED. CREATED: 19 OCT 15:28 2016

!FDC 6/9911 KZOB OH..ROUTE ZOB. V6 MOROW, OH MCA 5000 EASTBOUND. YNG VOR UNUSABLE R-277 UNUSABLE BEYOND 25 NM BLO 5000. 11 SEP 18:35 2016 UNTIL 23 APR 18:35 2017 ESTIMATED. CREATED: 11 SEP 18:36 2016

!FDC 6/9740 KZOB OH..ROUTE ZOB. J584 KEEHO, OH TO DORET, OH NA. 09 DEC 16:53 2016 UNTIL 21 JUL 16:53 2017 ESTIMATED. CREATED: 09 DEC 16:53 2016

!FDC 6/9738 KZOB OH..ROUTE ZOB. J190 KEEHO, OH TO DORET, OH NA. 09 DEC 16:53 2016 UNTIL 21 JUL 16:53 2017 ESTIMATED. CREATED: 09 DEC 16:53 2016

!FDC 6/6971 KZOB PA..ROUTE ZOB. V37 HAGAR, PA TO ERIE (ERI) VORTAC, PA NA ERI VOR R-183 UNUSABLE BEYOND 30NM. 13 NOV 14:50 2016 UNTIL 25 JUN 14:50 2017 ESTIMATED. CREATED: 13 NOV 14:50 2016

!FDC 6/6969 KZOB PA..ROUTE ZOB. V170 ERIE (ERI) VORTAC, PA TO BRADFORD (BFD) VOR/DME, PA MEA 5000. 13 NOV 14:49 2016 UNTIL 25 JUN 14:49 2017 ESTIMATED. CREATED: 13 NOV 14:49 2016

!FDC 6/6967 KZOB PA..ROUTE ZOB. V126 ERIE (ERI) VORTAC, PA TO BRADFORD (BFD) VOR/DME, PA MEA 5000. 13 NOV 14:48 2016 UNTIL 25 JUN 14:48 2017 ESTIMATED. CREATED: 13 NOV 14:48 2016

!FDC 6/6965 KZOB PA..ROUTE ZOB. V116 ERIE (ERI) VORTAC, PA TO BRADFORD (BFD) VOR/DME, PA MEA 5000. 13 NOV 14:47 2016 UNTIL 25 JUN 14:47 2017 ESTIMATED. CREATED: 13 NOV 14:47 2016

!FDC 6/5196 KZOB IN..ROUTE ZOB ZAU. V126, V92 BAGEL, IN TO EDGE, OH MEA 5000. GSH VORTAC UNUSABLE. 27 DEC 22:28 2016 UNTIL 08 AUG 22:28 2017 ESTIMATED. CREATED: 27 DEC 22:28 2016

!FDC 6/4250 KZOB MI..ROUTE ZOB ZAU. V450 MUSKEGON (MKG) VORTAC, MI R-095 TO CFCCV, MI NA. 21 DEC 13:54 2016 UNTIL 02 AUG 13:54 2017 ESTIMATED. CREATED: 21 DEC 13:55 2016

!FDC 6/3219 KZOB MI..ROUTE ZOB. V450 GIBER INT, MI TO LUGGS INT, MI MEA 4000 MOCA 2400. 19 OCT 17:46 2016 UNTIL 31 MAY 17:46 2017 ESTIMATED. CREATED: 19 OCT 17:47 2016

!FDC 6/2854 KZOB MI..ROUTE ZOB ZAU. J584 NORTHBROOK (OBK) VOR/DME, IL TO CARLETON (CRL) VORTAC, MI NA. 19 OCT 15:32 2016 UNTIL 31 MAY 15:32 2017 ESTIMATED. CREATED: 19 OCT 15:33 2016

!FDC 6/2852 KZOB MI..ROUTE ZOB ZAU. J554 GIPPER (GIJ) VORTAC, MI TO CARLETON (CRL) VORTAC, MI NA. 19 OCT 15:31 2016 UNTIL 31 MAY 15:31 2017 ESTIMATED. CREATED: 19 OCT 15:31 2016

!FDC 6/2850 KZOB MI..ROUTE ZOB ZAU. J34 VICTORY (VIO) VOR/DME, MI TO CARLETON (CRL) VORTAC, MI NA. 19 OCT 15:29 2016 UNTIL 31 MAY 15:28 2017 ESTIMATED. CREATED: 19 OCT 15:29 2016

!FDC 6/2847 KZOB MI..ROUTE ZOB ZID. J43 ROSEWOOD (ROD) VORTAC, OH TO CARLETON (CRL) VORTAC, MI NA. 19 OCT 15:28 2016 UNTIL 31 MAY 15:27 2017 ESTIMATED. CREATED: 19 OCT 15:28 2016

!FDC 6/2636 KZOB OH..ROUTE ZOB. V96 ANNTS, OH MCA 16000 SOUTHWESTBOUND. 23 NOV 21:05 2016 UNTIL 05 JUL 21:05 2017 ESTIMATED. CREATED: 23 NOV 21:05 2016

!FDC 6/2632 KZOB OH..ROUTE ZOB. V96 ILLIE, OH MCA 16000 NORTHEASTBOUND. 23 NOV 21:04 2016 UNTIL 05 JUL 21:04 2017 ESTIMATED. CREATED: 23 NOV 21:04 2016

!FDC 6/1542 KZOB PA..ROUTE ZOB. V12 ALLEGHENY (AGC) VOR/DME, PA TO JOHNSTOWN (JST) VORTAC, PA AGC VOR/DME R-096 UNUSABLE; USE JST R-274. MEA 5000. AGC VOR/DME RESTRICTED R-071-174 ALL ALTITUDES AND DISTANCES. 20 NOV 20:56 2016 UNTIL 02 JUL 20:56 2017 ESTIMATED. CREATED: 20 NOV 20:57 2016

!FDC 6/1164 KZOB NY..ROUTE ZOB. V164 BENE, NY MCA 11000 NORTHBOUND. 20 NOV 15:30 2016 UNTIL 02 JUL 15:30 2017 ESTIMATED. CREATED: 20 NOV 15:30 2016

***** All International NOTAMs *****

All published NOTAMs are available in the Notices to Airmen Publication (http://www.faa.gov/air_traffic/publications/notices/).

CYHQ 16/B5715 CZZZ 20161201000500 PERM 2016: 0620 1446 1796 1797 1798 1799 1800 1801 1802 1803 1807 2110 2111 2112 2113 2114 2115 2116 2117 2988 3214 3417 3711 3712 3713 3736 3753 3927 3928 3930 3933 3934 3935 3936 3937 3938 3939 3940 3941 3942 3943 3945 3946 4007 4324 4427 4447 4477 4480 4483 4512 4517 4622 4735 4762 4763 4800 4805 4827 4828 4829 4830 4831 5099 5100 5128 5190 5191 5222 5223 5224 5225 5247 5257 5291 5349 5350 5351 5352 5353 5354 5372 5396 5415 5435 5436 5494 5526 5585 5588 5594 5607 5608 5609 5610 5616 5620 5638 5639 5647 5663 5675 5676 5694 5699 5700 5706 5707 5709 5710 5711 5713 5714 Latest publications Aeronautical Information Publication amendment 6/16 effective 10 November 2016 supply 41/16 Aeronautical Information Circular 21/16. 01 December 00:05 2016 until 01 January 00:05 2017 estimated. Created: 01 December 00:17 2016

KICZ 16/A0022 KICZ 20161224144100 PERM Security..United states of America advisory for Afghanistan. Those persons described IN paragraph A below flying into, out of, within, OR over the territory and airspace of Afghanistan should operate only on established air routes and at altitudes at OR above flight level 330 to the maximum extent possible. High elevation terrain IN parts of Afghanistan May create the potential for some of the threats described IN paragraph C to be encountered at OR above flight level 330 IN those areas. A. Applicability. This NOTAM applies to: all United States air carriers and commercial OPERATORS; all persons exercising the privileges of an airman certificate issued by the FAA, except such persons operating U.S.-Registered aircraft for A foreign air CARRIER; and all operators of aircraft registered IN the united states, except where the operator of such aircraft IS A foreign air carrier. B. Planning. Those persons described IN paragraph A planning to fly into, out of, within, OR over the above-named area must review current security/threat information and NOTAMS and comply with all applicable FAA regulations, operations specifications, management specifications, and letters of authorization, including updating B450. C. Operations. Exercise extreme caution during flight operations, particularly when operating below FL 330, due to ongoing military operations and extremist/militant activity. The security situation IN Afghanistan continues to present an ongoing concern for United States civil aviation interests, particularly for aircraft on the ground and aircraft operating at low altitudes during the arrival and departure phases of flight. There IS A risk of attacks against United States civil aviation IN Afghanistan. Airports IN Afghanistan May be targets of direct assault and indirect fire and are susceptible to insider threats. Aircraft on the ground at airports/airfields have been damaged OR destroyed by indirect rocket OR mortar fire from extremist/militant attacks. Aircraft are at risk of encountering Anit-aircraft fire, and shoulder-fired MAN-portable air defense systems (MANPADS), particularly at low altitudes. Those persons described IN paragraph A must report safety and/OR security incidents to the FAA at +1 202-267-3333 OR 1-844-412-1794. The justification for this advisory will be RE-evaluated by 24 December 2017. Additional information IS provided at: https://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - flight level 329 24 December 14:41 2016 until 24 December 23:59 2017 estimated. Created: 24 December 14:41 2016

KICZ 16/A0021 KICZ 20161027111300 PERM Security..United states of America prohibition for Ukraine Simferopol (UKFV) and Dnepropetrovsk (UKDV) flight information regions (FIR) 14 CFR 91.1607 Special federal aviation regulation (SFAR) no. 113-Extension of the prohibition against certain flights IN the Simferopol (UKFV) and DNIPROPETROVSK (UKDV) flight information regions (FIRS) was published IN the federal register on October 27, 2016 and was effective immediately. SFAR no. 113, As amended, extends the prohibition on United States civil flight operations IN the Simferopol (UKFV) and Dnepropetrovsk (UKDV) Flight Information Regions until October 27, 2018. Additional information IS provided at: https://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - unlimited, 27 October 11:13 2016 until 26 October 23:59 2018 estimated. Created: 27 October 11:21 2016

KICZ 16/A0019 KICZ 20160909121100 PERM Security..United states of America advisory for Tehran (OIIX) flight information region (FIR) those persons described IN paragraph A below are advised to exercise caution when flying IN the Tehran (OIIX) flight information region (FIR) due to military activity associated with the conflicts IN Syria and Iraq. Before operating IN OR adjacent to the Tehran Flight Information Region (OIIX) carefully review current NOTAMS and be familiar with current conditions IN the middle east. A. Applicability. This NOTAM applies to: all United States air carriers and commercial OPERATORS; all persons exercising the privileges of an airman certificate issued by the FAA, except such persons operating U.S.-Registered aircraft for A foreign air CARRIER; and all operators of aircraft registered IN the united states, except where the operator of such aircraft IS A foreign air carrier. B. Planning. Those persons described IN paragraph A planning to fly IN the Tehran Flight Information Region (OIIX) must review current security/threat information and NOTAMS; comply with all applicable FAA regulations, operations specifications, management specifications, and letters of authorization, including updating B450. Iranian civil aviation authorities May issue NOTAMS describing required procedures for entry into the Tehran Flight Information Region (OIIX). Any person described IN paragraph A planning A flight through the Tehran Flight Information Region (OIIX) should file A flight plan well IN advance and carefully adhere to that flight plan, unless otherwise directed by air traffic control, and to all air traffic clearances while IN the Tehran Flight Information Region (OIIX). The United States department of state has issued A travel warning for Iran advising, IN part, that the United States government does not currently maintain diplomatic OR consular relations with the Islamic Republic of Iran, and that the SWISS government, acting through its embassy IN Tehran, serves as the protecting power for United States interests IN Iran. Any United States operator making an unanticipated landing IN Iran should contact the United States interests section at the SWISS embassy IN Tehran for any needed assistance at telephone +98−21−2279-3912 OR +98−21−2279-3697. C. Operations. Exercise caution during flight operations due to military activity IN the Tehran Flight Information Region (OIIX) associated with the ongoing conflicts IN Syria and Iraq. Those persons described IN paragraph A must report safety and/OR security incidents to the FAA at +1 202-267-3333 OR 1-844-412-1794. The justification for this advisory will be RE-evaluated by 9 September 2017. Additional information IS provided at: http://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - unlimited 09 September 12:11 2016 until 09 September 23:59 2017 estimated. Created: 09 September 12:18 2016

KICZ 16/A0017 KICZ 20160808124500 PERM Security..United states of America advisory for south Sudan those persons described IN paragraph A should exercise caution flying into, out of, WI OR over the territory and airspace of south Sudan at altitudes below flight level 260 due to the hazardous situation Created by the ongoing fighting IN south Sudan. A. Applicability. This NOTAM applies to: all United States air carriers and commercial OPERATORS; all persons exercising the privileges of an airman certificate issued by the FAA, except such persons operating U.S.-Registered aircraft for A foreign air CARRIER; and all operators of aircraft registered IN the united states, except where the operator of such aircraft IS A foreign air carrier. B. Planning. Those persons described IN paragraph A planning to fly into, out of, WI, OR over the above-named area must review current security/threat information and NOTAMS; comply with all applicable FAA regulations, letters of authorization, management specifications and operations specifications, including updating B450; and provide at least 72 hours advance notice of planned flights to the FAA at AEO-CITWATCH@FAA.Governor with specific flight details whenever possible. If A person described IN paragraph A has less than 72 hours advance notice of such A flight, that person must provide notice to the FAA at AEO-CITWATCH@FAA.Governor as far IN advance of the planned flight as possible. C. Operations. Exercise caution during flight operations due to the potential risk from small-arms fire, rocket-propelled grenades, Anit-aircraft fire, and shoulder-fired MAN-portable air defense systems (MANPADS). IN addition, while some attacks have been intentional, command and control deficiencies and/OR misidentification of aircraft have likely led to government and rebel forces mistakenly firing on civil aviation, particularly on the ground and at low altitudes. Those persons described IN paragraph A must report safety and/OR security incidents to the FAA at +1 202-267-3333. The justification for this advisory will be RE-evaluated by 8 August 2017. Additional information IS provided at: https://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS. Surface - flight level 259 08 August 12:45 2016 until 08 August 23:59 2017 estimated. Created: 08 August 12:44 2016

KICZ 16/A0012 KICZ 20160527105500 PERM Security..United states of America advisory for north Korea Pyongyang (ZKKP) flight information region (FIR) those persons described IN paragraph A below are advised to exercise caution when flying IN OR near the Pyongyang (ZKKP) flight information region (FIR) east of 132 degrees east longitude due to north KOREAS history of unannounced launching of medium-range ballistic missiles. A. Applicability. This NOTAM applies to: all United States air carriers and commercial OPERATORS; all persons exercising the privileges of an airman certificate issued by the FAA, except such persons operating United States registered aircraft for A foreign air CARRIER; and all operators of aircraft registered IN the united states, except where the operator of such aircraft IS A foreign air carrier. B. Planning. Those persons described IN paragraph A planning for and operating IN and around the Pyongyang Flight Information Region (ZKKP) east of 132 degrees east longitude must review current security/threat information and NOTAMS; and comply with all applicable FAA regulations, operations specifications, management specifications, and letters of authorization, including updating B450. C. Operations. Exercise caution during flight operations due to possible unannounced ballistic missile launches. Between march and April 2016, north Korea conducted unannounced launches of short range ballistic missiles into the sea of japan. IN addition, north Korea has launched medium range ballistic missiles which have the ability to travel beyond 132 degrees east longitude (132 degrees east longitude IS the eastern

boundary of special federal aviation regulation (SFAR) 79). SFAR 79 prohibits the persons described IN paragraph A from flying IN the Pyongyang (ZKKP) Flight Information Region west of 132 degrees east longitude. IN addition, unannounced ballistic missile launches into the sea of Japan with potential ranges that extend beyond the SFAR 79 boundaries May occur. Those persons described IN paragraph A must report any observed rocket OR missile launches near the Korean peninsula to the FAA at AEO-CITWATCH@FAA.Governor OR +1 202-267-3333 OR 1-844-412-1794. The justification for this advisory will be RE-evaluated by 27 May 2017.

Additional information IS provided at:

http://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - unlimited 27 May 10:55 2016 until 27 May 23:59 2017 estimated. Created: 27 May 11:06 2016

KICZ 16/A0011 KICZ 20160527110200 PERM Security..United states of America advisory for Korean peninsula Incheon (RKRR) flight information region (FIR) those persons described IN paragraph A below are advised to exercise caution when flying IN the Incheon (RKRR) Flight Information Region, especially near Seoul, south Korea, due to possible interference with, OR disruption of Global Positioning System navigation systems. A. Applicability. This NOTAM applies to: all United States air carriers and commercial OPERATORS; all persons exercising the privileges of an airman certificate issued by the FAA, except such persons operating U.S.-Registered aircraft for A foreign air CARRIER; and all operators of aircraft registered IN the united states, except where the operator of such aircraft IS A foreign air carrier. B. Planning. Those persons described IN paragraph A planning for and operating IN the Incheon Flight Information Region (RKRR) should be prepared to use non-Global Positioning System reliant NAVIGATION; must review current security/threat information and NOTAMS; and comply with all applicable FAA regulations, operations specifications (OPSPEC), management specifications (MSPEC), and letters of authorization (LOA), including updating OPSPEC/MSPEC/LOA B450. C. Operations. Exercise caution during flight operations as there have been reports of civil aircraft experiencing Global Positioning System navigation systems interference and/OR disruption. Between March and April 2016, aircraft operating IN the vicinity of Incheon international airport (RKSI) experienced interference and/OR disruption similar to those experienced IN 2012. Those persons described IN paragraph A must report any Global Positioning System interference OR disruption to the FAA at AEO-CITWATCH@FAA.Governor OR +1 202-267-3333 OR 1-844-412-1794. The justification for this advisory will be RE-evaluated by 27 May 2017. Additional information IS provided at: http://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - unlimited 27 May 11:02 2016 until 27 May 23:59 2017 estimated. Created: 27 May 11:06 2016

KICZ 16/A0009 KICZ 20160330111300 PERM Security..United states of America advisory for Egypt Sinai peninsula those persons described IN paragraph A below should avoid flying into, out of, within OR over the Sinai peninsula IN the Cairo (HECC) flight information region (FIR) at altitudes below flight level 260 within the following lateral limits: 311855N0321900E to 294443N0322815E to 281650N0331928E to 272900N0341900E to 292920N0345500E then along the Egypt/Israel border to 311800N0341300E to 311855N0321900E. A. Applicability. This NOTAM applies to: all United States air carriers and commercial OPERATORS; all persons exercising the privileges of an airman certificate issued by the FAA, except such persons operating U.S.-Registered aircraft for A foreign air CARRIER; and all operators of aircraft registered IN the united states, except where the operator of such aircraft IS A foreign air carrier.

B. Planning. Those persons described IN paragraph A planning to fly into, out of, within, OR over the above-named area must review current security/threat information and NOTAMS; comply with all applicable FAA regulations, operations specifications, management specifications, and letters of authorization, including updating B450; and provide at least 72 hours advance notice of planned flights to the FAA at AEO-CITWATCH@FAA.Governor with specific flight details to the maximum extent possible. C. Operations. Exercise extreme caution during flight operations due to the potential risk from extremist/militant attacks involving MAN-portable air defense systems (MANPADS), Anit-TANK missiles, small-arms fire, and indirect fire from mortars and rockets targeting Sinai airports and aircraft. Those persons described IN paragraph A must report safety and/OR security incidents to the FAA at +1 202-267-3333 OR 1 202-267-3203. The justification for this advisory will be RE-evaluated by 30 March 2017. Additional information IS provided at: http://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - flight level 259 30 March 11:13 2016 until 30 March 23:59 2017 estimated. Created: 30 March 11:20 2016

KICZ 16/A0006 KICZ 20160226145200 PERM Security..United states of America advisory for Mali those persons described IN paragraph A below should avoid flying into, out of, within OR over the territory and airspace of Mali at altitudes below flight level 260 due to ongoing extremist/militant activity. A. Applicability. This NOTAM applies to: all United States air carriers and commercial OPERATORS; all persons exercising the privileges of an airman certificate issued by the FAA, except such persons operating U.S.-Registered aircraft for A foreign air CARRIER; and all operators of aircraft registered IN the united states, except where the operator of such aircraft IS A foreign air carrier. B. Planning. Those persons described IN paragraph A planning to fly into, out of, within, OR over the above-named area at altitudes below flight level 260 must review current security/threat information and NOTAMS; comply with all applicable FAA regulations, operations specifications, management specifications, and letters of authorization, including updating B450; and provide at least 72 hours advance notice of planned flights to the FAA at AEO-CITWATCH@FAA.Governor with specific flight details to the maximum extent possible. C. Operations. Exercise extreme caution during flight operations due to the risk to safety from small-arms, rocket-propelled grenades, mortars, Anit-aircraft fire and shoulder-fired MAN-portable air defense systems (MANPADS). Those persons described IN paragraph A must report safety and/OR security incidents to the FAA at +1 202-267-3333 OR +1 202-267-3203. The justification for this advisory will be RE-evaluated by 26 February 2017. Additional information IS provided at: https://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - flight level 259 26 February 14:52 2016 until 26 February 23:59 2017 estimated. Created: 26 February 14:57 2016

KICZ 16/A0005 KICZ 20160226144700 PERM Security..United states of America advisory for Kenya those persons described IN paragraph A below are advised to exercise caution when flying into, out of, within, OR over the territory and airspace of Kenya at altitudes below flight level 260 due to the possibility of extremist/militant activity. A. Applicability. This NOTAM applies to: all United States air carriers and commercial OPERATORS; all persons exercising the privileges of an airman certificate issued by the FAA, except such persons operating U.S.-Registered aircraft for A foreign air CARRIER; and all operators of aircraft registered IN the

united states, except where the operator of such aircraft IS A foreign air carrier. B. Planning. Those persons described IN paragraph A planning to fly into, out of, within, OR over the above-named area must review current security/threat information and NOTAMS; comply with all applicable FAA regulations, letters of authorization, management specifications, and operations specifications, including updating B450. C. Operations. Exercise caution during flight operations due to the possibility of attacks by extremists/militants on civil aviation. Aircraft May encounter small-arms and other weapons systems, including shoulder-fired MAN-portable air defense systems (MANPADS). Airports IN Kenya have been targeted as recently as 2014 by terrorists and MANPADS were previously used against aircraft IN Kenya IN 2002. Those persons described IN paragraph A must report safety and/OR security incidents to the FAA at +1 202-267-3333 OR +1 202-267-3203. KICZ NOTAM A0040/15 IS cancelled. The justification for this advisory will be RE-evaluated by 26 February 2017. Additional information IS provided at: http://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - flight level 259 26 February 14:47 2016 until 26 February 23:59 2017 estimated. Created: 26 February 14:52 2016

KICZ 16/A0002 KICZ 20160107183800 20180106235900 Security..United states of America flight prohibition against certain flights IN specified areas of the Sanaa (OYSC) flight information region (FIR) 14 CFR 91.1611 Special federal aviation regulation (SFAR) no. 115 Prohibition against certain flights IN specified areas of the Sanaa (OYSC) flight information region (FIR) was published IN the federal register on 7 January 2016 and was effective immediately. SFAR no. 115 Supersedes KICZ NOTAM A0036/15 and continues the prohibition on United States civil flight operations IN specified areas of the Sanaa (OYSC) Flight Information Region that was contained IN KICZ NOTAM A0036/15. Additional information IS provided at: https://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - unlimited, 07 January 18:38 2016 until 06 January 23:59 2018. Created: 07 January 19:26 2016

KICZ 16/A0001 KICZ 20160107183400 20180106235900 Security..United states of America flight prohibition against certain flights IN the territory and airspace of SOMALIA 14 CFR 91.1613 Special federal aviation regulation (SFAR) no. 107 Prohibition against certain flights IN the territory and airspace of SOMALIA was published IN the federal register on 7 January 2016 and was effective immediately. Amended SFAR no. 107 Supersedes KICZ NOTAM A0031/15 and incorporates the prohibition on United States civil flight operations IN the territory and airspace of SOMALIA at altitudes below flight level 260 that was contained IN KICZ NOTAM A0031/15 into SFAR 107. Additional information IS provided at: https://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - flight level 259, 07 January 18:34 2016 until 06 January 23:59 2018. Created: 07 January 18:41 2016

KICZ 15/A0046 KICZ 20151228214500 PERM Security..United states of America advisory for Pakistan. Those persons described IN paragraph A below are advised to exercise caution when flying into, out of, within, OR over the territory and airspace of Pakistan, particularly while operating at low altitude, during the arrival and departure phases of flight, and during airport operations, due to extremist/militant activities. A. Applicability. This NOTAM applies to: all United States air carriers and commercial OPERATORS; all persons exercising the privileges of

an airman certificate issued by the FAA, except such persons operating U.S.-Registered aircraft for A foreign air CARRIER; and all operators of aircraft registered IN the united states, except where the operator of such aircraft IS A foreign air carrier. B. Planning. Those persons described IN paragraph A planning to fly into, out of, within, OR over the above-named area must review current security/threat information and NOTAMS and comply with all applicable FAA regulations, letters of authorization, management specifications, and operations specifications, including updating B450. C. Operations. Exercise caution during flight operations, particularly at low altitude, during the arrival and departure phases of flight, and during AIPORT operations, due to possible attempts by extremists/militants to attack civil aviation. Aircraft May encounter small-arms, rocket-propelled grenades, mortars, and Anit-aircraft fire, particularly when operating IN the terminal areas of airports. Airports IN Pakistan have been the target of direct assaults and May be subject to insider threat risks. Those persons described IN paragraph A must report safety and/OR security incidents to the FAA at +1 202-267-3333 OR +1 202-267-3203. The justification for this advisory will be RE-evaluated by 28 December 2016. Additional information IS provided at:

http://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - unlimited 28 December 21:45 2015 until 30 December 23:59 2016 estimated. Created: 28 December 21:51 2015

KICZ 15/A0019 KICZ 20151118172400 20170511235900 Security..United states of America flight prohibition for U.S.Civil flights IN the Baghdad (ORBB) flight information region (FIR). The United States federal aviation administration (FAA) has issued 14 CFR 91.1605 Special federal aviation regulation (SFAR) no. 77 Prohibition against certain flights IN the Baghdad (ORBB) Flight Information Region, and was published IN the federal register on 11 May 2015. Amended SFAR 77 prohibits flight operations at all altitudes IN the Baghdad (ORBB) Flight Information Region by all united states (U.S.) Air CARRIERS; United States commercial OPERATORS; persons exercising the privileges of A United States airman certificate, except when such persons are operating A United States registered aircraft for A foreign air CARRIER; and operators of U.S.-Registered civil aircraft, except when such operators are foreign air carriers. The prohibition IS due to the potentially hazardous situation Created by the armed conflict between militants associated with the Islamic state IN Iraq and the Levant and Iraqi security forces and their allies. See SFAR no. 77 For further background information. SFAR no. 77 Supersedes Flight Data Center (FDC) NOTAM 4/2185 and continues the prohibition on United States civil flight operations IN the Baghdad (ORBB) Flight Information Region. Flight Data Center (FDC) NOTAM 5/9549 (KFDC A0016/15) IS cancelled. Additional information IS provided at: https://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - UNL), 18 November 17:24 2015 until 11 May 23:59 2017. Created: 18 November 17:41 2015

KICZ 15/A0018 KICZ 20151118172900 20161229235900 Security..United states of America flight prohibition for Syria Damascus (OSTT) flight information region (FIR). 14 CFR 91.1609 Special federal aviation regulation (SFAR) no. 114PROHIBITION against certain flights IN the Damascus (OSTT) Flight Information Region was published IN the federal register on 30 December 2014 and was effective immediately. SFAR no. 114 Supersedes Flight Data Center (FDC) NOTAM 4/4936 and continues the prohibition on United States civil flight operations IN the Damascus (OSTT) Flight Information Region that was contained IN Flight Data Center

(FDC) NOTAM 4/4936. Flight Data Center (FDC) NOTAM 4/2638 (A0071/14) IS cancelled. Additional information IS provided at: https://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - unlimited), 18 November 17:29 2015 until 29 December 23:59 2016. Created: 18 November 17:37 2015

KICZ 15/A0017 KICZ 20151118173500 PERM Security..United states of America flight prohibition against certain flights within the flight information region of the Democratic Peoples Republic of Korea. Special federal aviation regulation (SFAR) no. 79FLIGHT prohibition against certain flights within the flight information region of the Democratic Peoples Republic of Korea was published IN the federal register on 17 February 1998 and updated 17 April 1998. Flight Data Center (FDC) NOTAM 8/1167 IS cancelled. Additional information IS provided at: https://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - unlimited), 18 November 17:35 2015 until permanent. Created: 18 November 17:37 2015

KICZ 15/A0009 KICZ 20151116182500 20170319235900 Security..United states of America flight prohibition against certain flights IN the Tripoli (HLLL) flight information region (FIR). A notice extending the expiration date of 14 CFR 91.1603 Special federal aviation regulation (SFAR) no. 112PROHIBITION against certain flights IN the Tripoli (HLLL) Flight Information Region was published IN the federal register. SFAR no. 112 Supersedes Flight Data Center (FDC) NOTAMS 4/7034 and 5/5798 and continues the prohibition on United States civil flight operations IN the Tripoli (HLLL) Flight Information Region. KFDC NOTAM 5/7254 (A0008/15) IS cancelled. Additional information IS provided at: https://WWW.FAA.Governor/AIR_TRAFFIC/publications/US_RESTRICTIONS/. Surface - unlimited), 16 November 18:25 2015 until 19 March 23:59 2017. Created: 16 November 18:30 2015

***** Volcanic Ash Advisory *****

Advisory ID: 080

Affected Location: None

Reporting ARTCC: DCC

Advisory Effective Start Time: Sun Dec 18 18:00:00 UTC 2016

Advisory Effective End Time: Mon Jan 16 12:18:00 UTC 2017

Advisory Text: ATCSCC ADVZY 080 DCC 12/18/2016 VOLCANIC ACTIVITY BULLETIN - TURRIALBA 345070

FVXX22 KNES 181759 WSI UKS:181805

VA ADVISORY

DTG: 20161218/1759Z

VAAC: WASHINGTON

VOLCANO: TURRIALBA 345070

PSN: N1001 W08346

AREA: COSTA.RICA

SUMMIT ELEV: 10958 FT (3340 M)

ADVISORY NR: 2016/475

INFO SOURCE: GOES-EAST. GFS WINDS. VOLCANO WEB
CAMERA.

ERUPTION DETAILS: CONTINUOUS EMS OF GASES AND
PSBL LIGHT VA

OBS VA DTG: 18/1745Z

OBS VA CLD: VA NOT IDENTIFIABLE FROM SATELLITE
DATA WINDS SFC/FL130 090/25-30KT

FCST VA CLD +6HR: 19/0000Z

FCST VA CLD +12HR: 19/0600Z

FCST VA CLD +18HR: 19/1200Z

RMK: T+0 CONFIDENCE IS LOW. NO VA IS OBSERVED IN
IMAGERY ALTHOUGH THERE ARE WX CLOUDS PRESENT.
WEBCAMERA SHOWS CONTINUOUS EMS OF GASES AND PSBL
LIGHT VA. ...SCHWARTZ
EFFECTIVE TIME:181800-1612182359
NXT ADVISORY: WILL BE ISSUED BY 20161219/0000Z

Advisory ID: 011

Affected Location: None

Reporting ARTCC: DCC

Advisory Effective Start Time: Wed Dec 21 02:45:00 UTC 2016

Advisory Effective End Time: Fri Jan 20 10:30:00 UTC 2017

Advisory Text: ATCSCC ADVZY 011 DCC 12/21/2016 VOLCANIC ACTIVITY BULLETIN -
BOGOSLOF

311300

FVXX21 KNES 210244 WSI DDS:210250

VA ADVISORY

DTG: 20161221/0244Z

VAAC: WASHINGTON

VOLCANO: BOGOSLOF 311300

PSN: N5355 W16801

AREA: ALEUTIANS

SUMMIT ELEV: 492 FT (150 M)

ADVISORY NR: 2016/001

RMK: PLEASE SEE FVAK22 PAWU 210224 ISSUED BY THE ANCHORAGE VAAC THAT DESCRIBES CONDITIONS NEAR THE WASHINGTON VAAC AREA OF RESPONSIBILITY.

...SZATANEK
210245-201030

Advisory ID: 104

Affected Location: None

Reporting ARTCC: DCC

Advisory Effective Start Time: Mon Dec 26 19:15:00 UTC 2016

Advisory Effective End Time: Mon Jan 16 12:27:00 UTC 2017

Advisory Text: ATCSCC ADVZY 104 DCC 12/26/2016 VOLCANIC ACTIVITY BULLETIN - COLIMA

341040

FVXX20 KNES 261942 WSI UKS:261946

VA ADVISORY

DTG: 20161226/1942Z

VAAC: WASHINGTON

VOLCANO: COLIMA 341040

PSN: N1930 W10337

AREA: MEXICO

SUMMIT ELEV: 12631 FT (3850 M)

ADVISORY NR: 2016/523

INFO SOURCE: GOES-EAST. GFS WINDS. ECMWF WINDS.
VOLCANO WEB CAMERA.

ERUPTION DETAILS: VA EMS SEEN APRX 26/1900Z

OBS VA DTG: 26/1915Z

OBS VA CLD: SFC/FL180 N2000 W10332 - N1943 W10331
- N1940 W10343 - N1952 W10353 - N2000 W10332 MOV
N 10KT

FCST VA CLD +6HR: 27/0130Z SFC/FL180 NO ASH EXP

FCST VA CLD +12HR: 27/0730Z NO ASH EXP

FCST VA CLD +18HR: 27/1330Z NO ASH EXP

RMK: T+0 CONFIDENCE HIGH. VA EMS SEEN IN VIS AND SW/IR STLT IMAGERY COINCIDES WITH EARLIER SMALL PUFF SEEN IN WEB CAM. ASH MOV N. ...LEE

EFF 1612261915-1612270145

NXT ADVISORY: WILL BE ISSUED BY 20161227/0145Z

Advisory ID: 102

Affected Location: None

Reporting ARTCC: DCC

Advisory Effective Start Time: Tue Dec 27 17:30:00 UTC 2016

Advisory Effective End Time: Mon Jan 16 12:28:00 UTC 2017

Advisory Text: ATCSCC ADVZY 102 DCC 12/27/2016 VOLCANIC ACTIVITY BULLETIN - COLIMA

341040

FVXX20 KNES 271753 WSI UKS:271759

VA ADVISORY

DTG: 20161227/1753Z

VAAC: WASHINGTON

VOLCANO: COLIMA 341040

PSN: N1930 W10337

AREA: MEXICO

SUMMIT ELEV: 12631 FT (3850 M)

ADVISORY NR: 2016/529

INFO SOURCE: GOES-EAST. MEXICO CITY MWO. GFS WINDS. NAM WINDS. VOLCANO WEB CAMERA.

ERUPTION DETAILS: DISCRETE VA EM CONT

OBS VA DTG: 27/1730Z

OBS VA CLD: SFC/FL180 N2017 W10407 - N2011 W10401

- N2001 W10412 - N2006 W10418 - N2017 W10407 MOV
NW 10-15KT SFC/FL200 N1941 W10341 - N1934 W10337
- N1929 W10342 - N1933 W10349 - N1941 W10341 MOV
NW 5-10KT

FCST VA CLD +6HR: 27/2330Z SFC/FL180 NO ASH
EXP SFC/FL200 NO ASH EXP

FCST VA CLD +12HR: 28/0530Z NO ASH EXP NO ASH EXP

FCST VA CLD +18HR: 28/1130Z NO ASH EXP NO ASH EXP

RMK: T+0 CONFIDENCE HIGH. REMNANT VA FROM PREVIOUS
EM DIFFUSE AND LOCATED APRX 48NM NW OF SUMMIT. NEW
VA EM AT 27/1711Z ALSO MOV NNW. BOTH VA EM EXPECTED TO
DISP WI 6HRS ...VELASCO

EFF 1612271730-1612280001

NXT ADVISORY: WILL BE ISSUED BY 20161228/0000Z

Advisory ID: 057

Affected Location: None

Reporting ARTCC: DCC

Advisory Effective Start Time: Wed Dec 28 17:45:00 UTC 2016

Advisory Effective End Time: Mon Jan 16 12:29:00 UTC 2017

Advisory Text: ATCSCC ADVZY 057 DCC 12/28/2016 VOLCANIC ACTIVITY BULLETIN -
COLIMA

341040

FVXX20 KNES 281815 WSI DDS:281817

VA ADVISORY

DTG: 20161228/1815Z

VAAC: WASHINGTON

VOLCANO: COLIMA 341040

PSN: N1930 W10337

AREA: MEXICO

SUMMIT ELEV: 12631 FT (3850 M)

ADVISORY NR: 2016/534

INFO SOURCE: GOES-EAST. GFS WINDS. VOLCANO WEB
CAMERA.

ERUPTION DETAILS: DISCRETE VA EM CONTINUE

OBS VA DTG: 28/1745Z

OBS VA CLD: SFC/FL180 N2050 W10345 - N1934 W10336
- N1929 W10341 - N2006 W10420 - N2038 W10422 -
N2050 W10345 MOV N 15-20KT

FCST VA CLD +6HR: 29/0000Z SFC/FL180 N2132 W10358
- N1932 W10337 - N1929 W10340 - N1958 W10415 -
N2123 W10444 - N2132 W10358

FCST VA CLD +12HR: 29/0600Z SFC/FL180 N2132
W10401 - N1932 W10337 - N1929 W10341 - N2124
W10448 - N2132 W10401

FCST VA CLD +18HR: 29/1200Z SFC/FL180 N2130
W10412 - N1933 W10337 - N1929 W10341 - N2123
W10452 - N2130 W10412

RMK: T+0 CONFIDENCE HIGH. VA PUFFS CONT TO BE
SEEN MOV NNW. FURTHEST ASH EM IS
LOCATED APRX 72 NM FROM SUMMIT. DISCRETE VA EM
LIKELY TO CONT BEING RELEASED BASED ON RECENT
ACT. ...VELASCO
EFF: 1612281745-1612290015

NXT ADVISORY: WILL BE ISSUED BY 20161229/0015Z

Advisory ID: 036

Affected Location: None

Reporting ARTCC: DCC

Advisory Effective Start Time: Thu Dec 29 12:00:00 UTC 2016

Advisory Effective End Time: Mon Jan 16 12:29:00 UTC 2017

Advisory Text: ATCSCC ADVZY 036 DCC 12/29/2016 VOLCANIC ACTIVITY BULLETIN -
BULUSAN

273010

FVFE01 RJTD 291200 WSI UKS:291202

VA ADVISORY

DTG: 20161229/1200Z

VAAC: TOKYO

VOLCANO: BULUSAN 273010

PSN: N1246 E12403

AREA: PHILIPPINES

SUMMIT ELEV: 1565M

ADVISORY NR: 2016/19
INFO SOURCE: HIMAWARI-8 RPHI
AVIATION COLOUR CODE: NIL
ERUPTION DETAILS: VA CONTINUOUSLY OBS ON SATELLITE IMAGERY
OBS VA DTG: 29/1120Z
OBS VA CLD: SFC/FL120 N1256 E12235 - N1254 E12247 - N1231 E12256 -
N1230 E12252 MOV W 20KT
FCST VA CLD +6 HR: 29/1720Z SFC/FL130 N1304 E12044 - N1151 E12114 -
N1152 E12101 - N1222 E12040 - N1306 E12034
FCST VA CLD +12 HR: NO VA EXP
FCST VA CLD +18 HR: NO VA EXP
RMK: NIL
EFF: 1612291200-1612291800
NXT ADVISORY: 20161229/1800Z=

***** Notices *****

If flying outside the United States, check data as soon as practical after entering foreign airspace, as our international data may be inaccurate or incomplete. Contact the country whose airspace you will enter at the first opportunity.