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(b) Pilots must fly along the west shoreline of the Hudson River when southbound, and along the east shoreline of the Hudson River when northbound; while remaining within the boundaries of the Hudson River Exclusion as defined in §93.350(d).

(c) Aircraft transiting the area within the Hudson River Exclusion in accordance with §93.350(b) must transit the Hudson River Exclusion at or above an altitude of 1,000 feet MSL up to, but not including, the floor of the overlying Class B airspace.

**§93.353 East River Exclusion specific operating procedures.**

No person may operate an airplane in the East River Exclusion extending from the southwestern tip of Governors Island to the north tip of Roosevelt Island except:

- (a) Seaplanes landing on or taking off from the river; or
- (b) Airplanes authorized by ATC. Pilots must contact LaGuardia Airport Traffic Control Tower prior to Governors Island for authorization.

**PART 95—IFR ALTITUDES**

SPECIAL FEDERAL AVIATION REGULATION NO. 97 [NOTE]

**Subpart A—General**

- Sec.
- 95.1 Applicability.
- 95.3 Symbols.

**Subpart B—Designated Mountainous Areas**

- 95.11 General.
- 95.13 Eastern United States Mountainous Area.
- 95.15 Western United States Mountainous Area.
- 95.17 Alaska Mountainous Area.
- 95.19 Hawaii Mountainous Area.
- 95.21 Puerto Rico Mountainous Area.

**Subpart C—En Route IFR Altitudes Over Particular Routes and Intersections**

- 95.31 General.

**Subpart D—Changeover Points**

- 95.8001 General.

AUTHORITY: 49 U.S.C. 106(g), 40103, 40113, and 14 CFR 11.49(b)(2).

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SPECIAL FEDERAL AVIATION REGULATION  
No. 97

EDITORIAL NOTE: For the text of SFAR No. 97, see part 91 of this chapter.

**Subpart A—General**

**§ 95.1 Applicability.**

(a) This part prescribes altitudes governing the operation of aircraft under IFR on ATS routes, or other direct routes for which an MEA is designated in this part. In addition, it designates mountainous areas and changeover points.

(b) The MAA is the highest altitude on an ATS route, or other direct route for which an MEA is designated, at which adequate reception of VOR signals is assured.

(c) The MCA applies to the operation of an aircraft proceeding to a higher minimum en route altitude when crossing specified fixes.

(d) The MEA is the minimum en route IFR altitude on an ATS route, ATS route segment, or other direct route. The MEA applies to the entire width of the ATS route, ATS route segment, or other direct route between fixes defining that route. Unless otherwise specified, an MEA prescribed for an off airway route or route segment applies to the airspace 4 nautical miles on each side of a direct course between the navigation fixes defining that route or route segment.

(e) The MOCA assures obstruction clearance on an ATS route, ATS route segment, or other direct route, and adequate reception of VOR navigation signals within 22 nautical miles of a VOR station used to define the route.

(f) The MRA applies to the operation of an aircraft over an intersection defined by ground-based navigation aids. The MRA is the lowest altitude at which the intersection can be determined using the ground-based navigation aids.

(g) The changeover point (COP) applies to operation of an aircraft along a Federal airway, jet route, or other direct route; for which an MEA is designated in this part. It is the point for transfer of the airborne navigation reference from the ground-based navigation aid behind the aircraft to the next

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appropriate ground-based navigation aid to ensure continuous reception of signals.

[Doc. No. FAA-2003-14698, 68 FR 16947, Apr. 8, 2003]

**§ 95.3 Symbols.**

For the purposes of this part—

- (a) *COP* means changeover point.
- (b) *L* means compass locator;
- (c) *LF/MF* means low frequency, medium frequency;
- (d) *LFR* means low frequency radio range;
- (e) *VOR-E* means VOR and distance measuring equipment; and

(f) *Z* means a very high frequency location marker.

[Doc. No. 1580, 28 FR 6718, June 29, 1963, as amended by Amdt. 95-118, 29 FR 13166, Sept. 23, 1964]

**Subpart B—Designated Mountainous Areas**

**§ 95.11 General.**

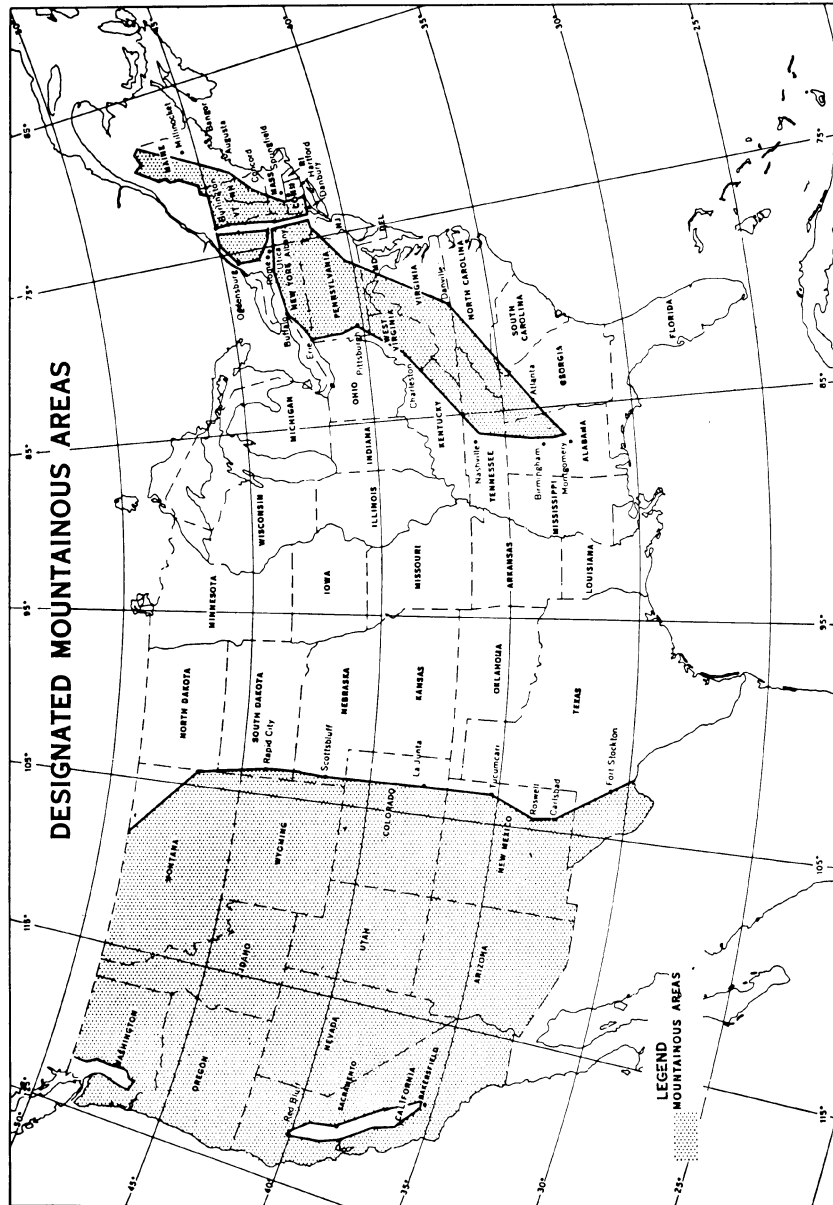
The areas described in this subpart are designated mountainous areas.

[Doc. No. 1580, 28 FR 6718, June 29, 1963]

**§ 95.13 Eastern United States Mountainous Area.**

All of the following area excluding those portions specified in the exceptions.

- (a) *Area.*



[Doc. No. 13284, Amndt. 95-255, 40 FR 2578, Jan. 14, 1975]

Beginning at latitude 47°10' N., longitude 67°55' W.; thence west and south along the Canadian Border to latitude 45°00' N., longitude 74°15' W.; thence to latitude 44°20' N.,

longitude 75°30' W.; thence to latitude 43°05' N., longitude 75°30' W.; thence to latitude 42°57' N., longitude 77°30' W.; thence to latitude 42°52' N., longitude 78°42' W.; thence to

latitude 42°26' N., longitude 79°13' W.; thence to latitude 42°05' N., longitude 80°00' W.; thence to latitude 40°50' N., longitude 80°00' W.; thence to latitude 40°26' N., longitude 79°54' W.; thence to latitude 38°25' N., longitude 81°46' W.; thence to latitude 36°00' N., longitude 86°00' W.; thence to latitude 33°37' N., longitude 86°45' W.; thence to latitude 32°30' N., longitude 86°25' W.; thence to latitude 33°22' N., longitude 85°00' W.; thence to latitude 36°35' N., longitude 79°20' W.; thence to latitude 40°11' N., longitude 76°24' W.; thence to latitude 41°24' N., longitude 74°30' W.; thence to latitude 41°43' N., longitude 72°40' W.; thence to latitude 42°13' N., longitude 72°44' W.; thence to latitude 43°12' N., longitude 71°30' W.; thence to latitude 43°45' N., longitude 70°30' W.; thence to latitude 45°00' N., longitude 69°30' W.; thence to latitude 47°10' N., longitude 67°55' W., point of beginning.

(b) *Exceptions.* The area bounded by the following coordinates:

Beginning at latitude 45°00' N., longitude 73°26' W.; thence to latitude 44°32' N., longitude 73°04' W.; thence to latitude 42°51' N., longitude 73°41' W.; thence to latitude 41°38' N., longitude 73°46' W.; thence to latitude 41°16' N., longitude 73°50' W.; thence to latitude 41°17' N., longitude 74°00' W.; thence to latitude 41°25' N., longitude 73°58' W.; thence to latitude 41°26' N., longitude 74°01' W.; thence to latitude 41°37' N., longitude 73°58' W.; thence to latitude 42°41' N., longitude 73°55' W.; thence to latitude 43°02' N., longitude 76°15' W.; thence to latitude 43°17' N., longitude 75°21' W.; thence to latitude 42°59' N., longitude 74°43' W.; thence to latitude 42°52' N., longitude 73°53' W.; thence to latitude 44°30' N., longitude 73°18' W.; thence to latitude 45°00' N., longitude 73°39' W.; thence to latitude 45°00' N., longitude 73°26' W., point of beginning.

[21 FR 2750, Apr. 28, 1956. Redesignated by Amdt. 1-1, 28 FR 6718, June 29, 1963, as amended at 73 FR 63885, Oct. 28, 2008]

#### § 95.15 Western United States Mountainous Area.

All of the following area excluding that portion specified in the exceptions:

(a) *Area.* From the Pacific coastline of the United States, eastward along the Canadian and Mexican borders, to the following coordinates:

Beginning at latitude 49°00' N., longitude 108°00' W.; thence to latitude 46°45' N., longitude 104°00' W.; thence to latitude 44°06' N., longitude 103°15' W.; thence to latitude 43°00' N., longitude 103°15' W.; thence to latitude 41°52' N., longitude 103°39' W.; thence to latitude 35°11' N., longitude 103°39' W.; thence to

latitude 33°17' N., longitude 104°27' W.; thence to latitude 32°17' N., longitude 104°14' W.; thence to latitude 29°48' N., longitude 102°00' W.

(b) *Exceptions.*

(1) Beginning at latitude 35°25' N., longitude 119°09' W.; thence to latitude 35°29' N., longitude 118°58' W.; thence to latitude 36°49' N., longitude 119°37' W.; thence to latitude 38°30' N., longitude 121°24' W.; thence to latitude 39°30' N., longitude 121°32' W.; thence to latitude 40°08' N., longitude 122°08' W.; thence to latitude 40°06' N., longitude 122°20' W.; thence to latitude 39°05' N., longitude 122°12' W.; thence to latitude 38°01' N., longitude 121°51' W.; thence to latitude 37°37' N., longitude 121°12' W.; thence to latitude 37°00' N., longitude 120°58' W.; thence to latitude 36°14' N., longitude 120°11' W., point of beginning.

(2) Beginning at latitude 49°00' N., longitude 122°21' W.; thence to latitude 48°34' N., longitude 122°21' W.; thence to latitude 48°08' N., longitude 122°00' W.; thence to latitude 47°12' N., longitude 122°00' W.; thence to latitude 46°59' N., longitude 122°13' W.; thence to latitude 46°52' N., longitude 122°16' W.; thence to latitude 46°50' N., longitude 122°40' W.; thence to latitude 46°35' N., longitude 122°48' W.; thence to latitude 46°35' N., longitude 123°17' W.; thence to latitude 47°15' N., longitude 123°17' W.; thence to latitude 47°41' N., longitude 122°54' W.; thence to latitude 48°03' N., longitude 122°48' W.; thence to latitude 48°17' N., longitude 123°15' W.; thence North and East along the United States and Canada Boundary to latitude 49°00' N., longitude 122°21' W., point of beginning.

[21 FR 2750, Apr. 28, 1956. Redesignated by Amdt. 1-1, 28 FR 6718, June 29, 1963, and amended by Amdt. 95-255, 40 FR 2579, Jan. 14, 1975]

#### § 95.17 Alaska Mountainous Area.

All of the following area excluding those portions specified in the exceptions:

(a) *Area.* The State of Alaska.

(b) *Exceptions;*

(1) *Fairbanks—Nenana Area.* Beginning at latitude 64°54' N, longitude 147°00' W; thence to latitude 64°50' N, longitude 151°22' W, thence to latitude 63°50' N, longitude 152°50' W; thence to latitude 63°30' N, longitude 152°30' W; thence to latitude 63°30' N, longitude 151°30' W; thence to latitude 64°05' N, longitude 150°30' W; thence to latitude 64°20' N, longitude 149°00' W; thence to latitude 64°07' N, longitude 146°30' W; thence to latitude 63°53' N, longitude 146°00' W; thence to latitude 63°53' N, longitude 145°00' W; thence to latitude

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64°09' N, longitude 145°16' W; thence to latitude 64°12' N, longitude 146°00' W; thence to latitude 64°25' N, longitude 146°37' W; thence to latitude 64°54' N, longitude 147°00' W, point of beginning.

(2) *Anchorage—Homer Area.* Beginning at latitude 61°50' N, longitude 151°12' W; thence to latitude 61°24' N, longitude 150°28' W; thence to latitude 61°08' N, longitude 151°47' W; thence to latitude 59°49' N, longitude 152°40' W; thence to latitude 59°25' N, longitude 153°10' W; thence to latitude 59°00' N, longitude 153°10' W; thence to latitude 59°33' N, longitude 151°28' W; thence to latitude 60°31' N, longitude 150°43' W; thence to latitude 61°13' N, longitude 149°39' W; thence to latitude 61°37' N, longitude 149°15' W; thence to latitude 61°44' N, longitude 149°48' W; thence to latitude 62°23' N, longitude 149°54' W; thence to latitude 62°23' N, longitude 150°14' W; thence to latitude 61°50' N, longitude 151°12' W, point of beginning.

(3) *King Salmon—Port Heiden Area.* Beginning at latitude 58°49' N, longitude 159°30' W; thence to latitude 59°40' N, longitude 157°00' W; thence to latitude 59°40' N, longitude 155°30' W; thence to latitude 59°50' N, longitude 154°50' W; thence to latitude 59°35' N, longitude 154°40' W; thence to latitude 58°57' N, longitude 156°05' W; thence to latitude 58°00' N, longitude 156°20' W; thence to latitude 57°00' N, longitude 158°20' W; thence to latitude 56°43' N, longitude 158°39' W; thence to latitude 56°27' N, longitude 160°00' W; thence along the shoreline to latitude 58°49' N, longitude 159°30' W, point of beginning.

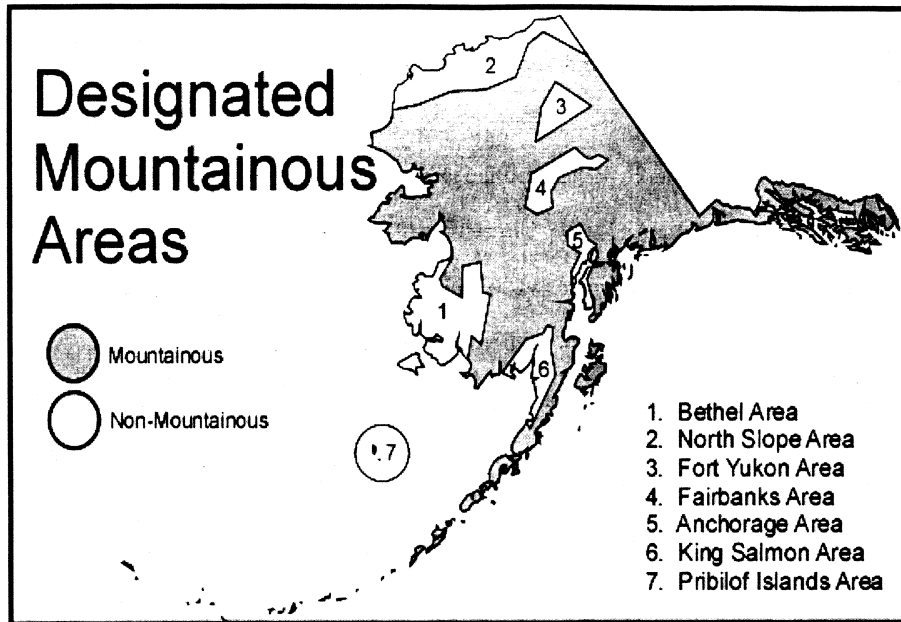
(4) *Bethel—Aniak Area.* Beginning at latitude 63°28' N, longitude 161°30' W; thence to latitude 62°40' N, longitude 163°03' W; thence to latitude 62°05' N, longitude 162°38' W; thence to latitude

61°51' N, longitude 160°43' W; thence to latitude 62°55' N, longitude 160°30' W; thence to latitude 63°00' N, longitude 158°00' W; thence to latitude 61°45' N, longitude 159°30' W; thence to latitude 61°34' N, longitude 159°15' W; thence to latitude 61°07' N, longitude 160°20' W; thence to latitude 60°25' N, longitude 160°40' W; thence to latitude 59°36' N, longitude 161°49' W; thence along the shoreline to latitude 63°28' N, longitude 161°30' W; point of beginning; and Nunivak Island.

(5) *North Slope Area.* Beginning at a point where latitude 69°30' N intersects the northwest coast of Alaska and eastward along the 69°30' parallel to latitude 69°30' N, longitude 156°00' W; thence to latitude 69°10' N, longitude 153°00' W; thence eastward along the 69°10' N parallel to latitude 69°10' N, longitude 149°00' W; thence to latitude 69°50' N, longitude 146°00' W; thence eastward along the 69°50' N parallel to latitude 69°50' N, longitude 145°00' W; thence to latitude 69°35' N, longitude 141°00' W; thence northward along the 141°00' W Meridian to a point where the 141°00' W Meridian intersects the northeast coastline of Alaska; thence westward along the northern coastline of Alaska to the intersection of latitude 69°30' N; point of beginning .

(6) *Fort Yukon Area.* Beginning at latitude 67°20' N, longitude 144°00' W; thence to latitude 66°00' N, longitude 143°00' W; thence to latitude 66°05' N, longitude 149°00' W; thence to latitude 66°45' N, longitude 148°00' W; thence to latitude 67°00' N, longitude 147°00' W; thence to latitude 67°20' N, longitude 144°00' W; point of beginning.

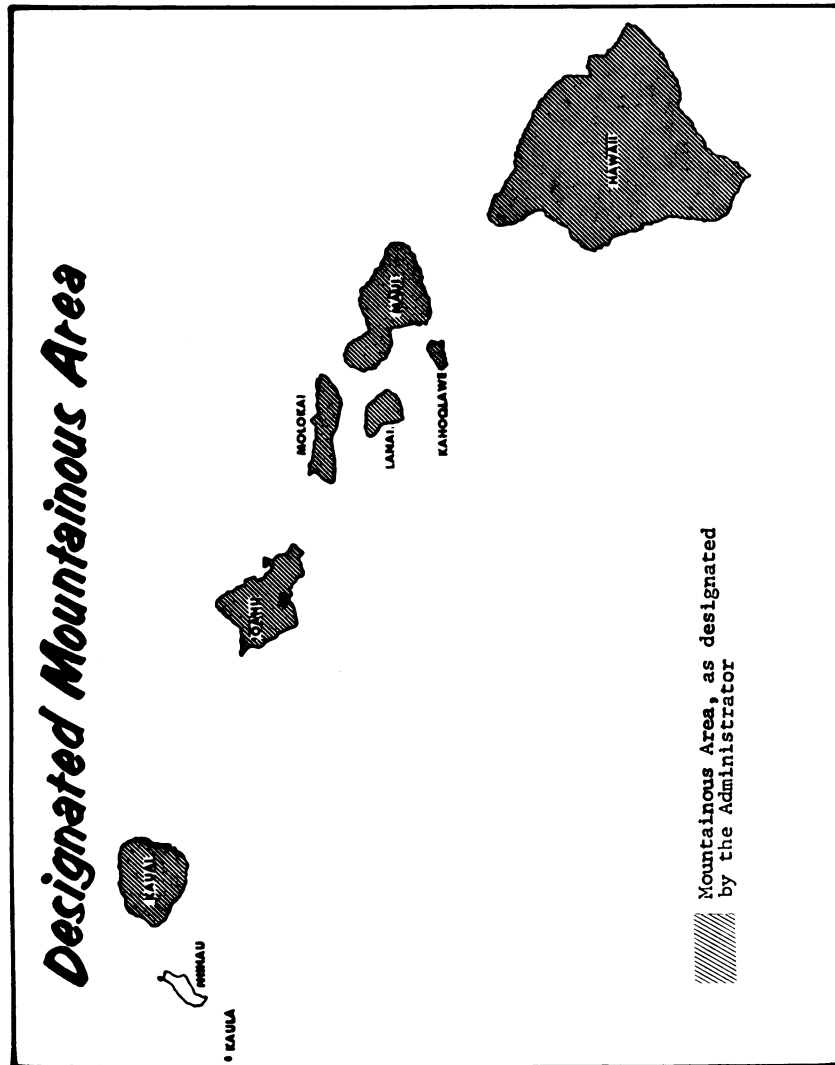
(7) The islands of Saint Paul and Saint George, together known as the Pribilof Islands, in the Bering Sea.



[Doc. No. FAA-2004-19352, 70 FR 7360, Feb. 11, 2005]

**§ 95.19 Hawaii Mountainous Area.**

The following islands of the State of Hawaii: Kauai, Oahu, Molokai, Lanai, Keohoolawe, Maui, and Hawaii.



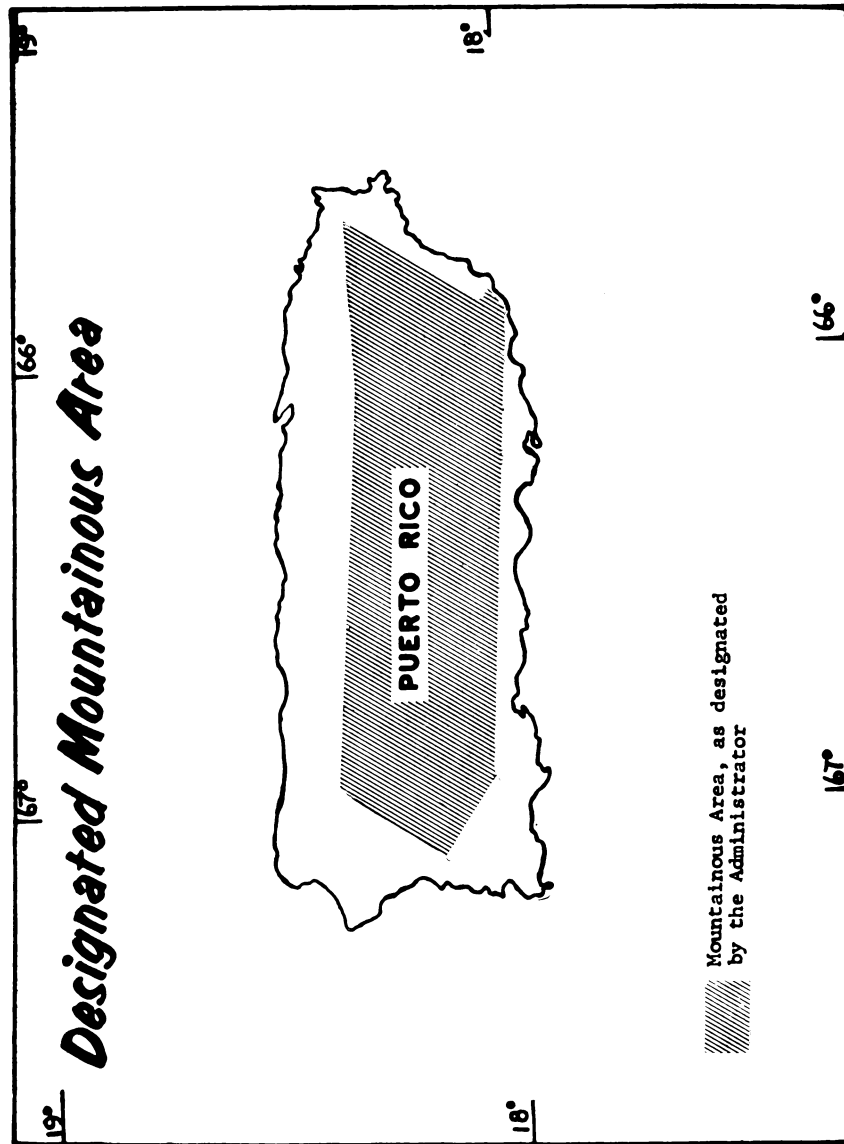
[Amdt. 88, 27 FR 4536, May 8, 1962. Redesignated by Amdt. 1-1, 28 FR 6719, June 29, 1963]

**§ 95.21 Puerto Rico Mountainous Area.**

The area bounded by the following coordinates:

Beginning at latitude 18°22' N., longitude 66°58' W.; thence to latitude 18°19' N., longitude 66°06' W.; thence to latitude 18°20' N., longitude 65°50' W.; thence to latitude 18°20' N., longitude 65°42' W.; thence to latitude 18°03' N., longitude 65°52' W.; thence to lati-

tude 18°02' N., longitude 65°51' W.; thence to latitude 17°59' N., longitude 65°55' W.; thence to latitude 18°05' N., longitude 66°57' W.; thence to latitude 18°11' N., longitude 67°07' W.; thence to latitude 18°22' N., longitude 66°58' W.; the point of beginning.



[Amdt. 88, 27 FR 4536, May 8, 1962; 27 FR 5603, June 13, 1962. Redesignated by Amdt. 1-1, 28 FR 6719, June 29, 1963]



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**Subpart C—En Route IFR Altitudes Over Particular Routes and Intersections**

EDITORIAL NOTE: The prescribed IFR altitudes for flights over particular routes and intersections in this subpart were formerly carried as §§610.11 through 610.6887 of this title and were transferred to part 95 as §§95.41 through 95.6887, respectively, but are not carried in the Code of Federal Regulations. For FEDERAL REGISTER citations affecting these routes, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at [www.govinfo.gov](http://www.govinfo.gov).

**§ 95.31 General.**

This subpart prescribes IFR altitudes for flights along particular routes or route segments and over additional intersections not listed as a part of a route or route segment.

[Doc. No. 1580, 28 FR 6719, June 29, 1963]

**Subpart D—Changeover Points**

EDITORIAL NOTE: The prescribed COP's for Federal airways, jet routes, or other direct routes for which an MEA is designated in this part are not carried in the Code of Federal Regulations. For FEDERAL REGISTER citations affecting these routes see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at [www.govinfo.gov](http://www.govinfo.gov).

**§ 95.8001 General.**

This subpart prescribes COP's for Federal airways, jet routes, area navigation routes, or other direct routes for which an MEA is designated in this part. Unless otherwise specified the COP is midway between the navigation facilities or way points for straight route segments, or at the intersection of radials or courses forming a dogleg in the case of dogleg route segments.

[Doc. No. 10580, 35 FR 14610, Sept. 18, 1970]

**PART 97—STANDARD INSTRUMENT PROCEDURES**

**Subpart A—General**

Sec.

97.1 Applicability.

97.3 Symbols and terms used in procedures.

97.5 Bearings, courses, tracks, headings, radials, miles.

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**Subpart B—Procedures**

97.10 [Reserved]

**Subpart C—TERPS Procedures**

97.20 General.

AUTHORITY: 49 U.S.C. 106(f), 106(g), 40103, 40106, 40113, 40114, 40120, 44502, 44514, 44701, 44719, and 44721–44722.

SOURCE: Docket No. 1580, 28 FR 6719, June 29, 1963, unless otherwise noted.

**Subpart A—General**

**§ 97.1 Applicability.**

(a) This part prescribes standard instrument approach procedures to civil airports in the United States and the weather minimums that apply to landings under IFR at those airports.

(b) This part also prescribes obstacle departure procedures (ODPs) for certain civil airports in the United States and the weather minimums that apply to takeoffs under IFR at civil airports in the United States.

[Doc. No. FAA–2002–14002, 72 FR 31679, June 7, 2007]

**§ 97.3 Symbols and terms used in procedures.**

As used in the standard instrument procedures prescribed in this part—

*Aircraft approach category* means a grouping of aircraft based on a speed of VREF, if specified, or if VREF is not specified, 1.3 V<sub>so</sub> at the maximum certificated landing weight. VREF, V<sub>so</sub>, and the maximum certificated landing weight are those values as established for the aircraft by the certification authority of the country of registry. The categories are as follows—

(1) Category A: Speed less than 91 knots.

(2) Category B: Speed 91 knots or more but less than 121 knots.

(3) Category C: Speed 121 knots or more but less than 141 knots.

(4) Category D: Speed 141 knots or more but less than 166 knots.

(5) Category E: Speed 166 knots or more.

*Approach procedure segments* for which altitudes (minimum altitudes, unless otherwise specified) and paths are prescribed in procedures, are as follows—