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Aeronautics and Space

CHAPTER I

FEDERAL AVIATION ADMINISTRATION, DEPARTMENT OF TRANSPORTATION (CONTINUED)

SUBCHAPTER F -- AIR TRAFFIC AND GENERAL OPERATING RULES

PART 95 -- IFR ALTITUDES

Special Federal Aviation Regulation No. 97 [Note]

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

Special Federal Aviation Regulation No. 97

Editorial Note: For the text of SFAR No. 97, see part 91 of this chapter.

Subpart A -- General

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

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

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§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

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§95.11 General.

The areas described in this subpart are designated mountainous areas.

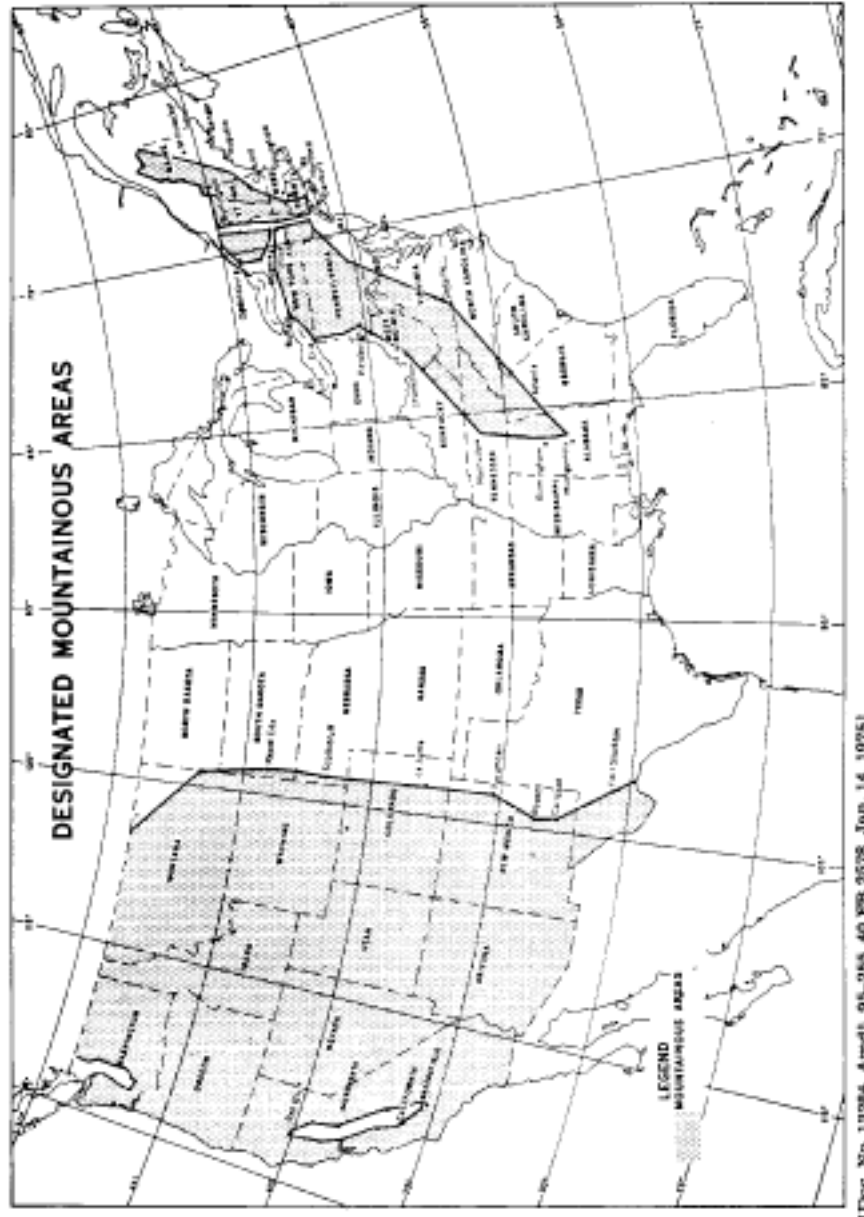
[Doc. No. 1580, 28 FR 6718, June 29, 1963]

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§95.13 Eastern United States Mountainous Area.

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

(a) Area.



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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.,

N., longitude 86°45&min; W.; thence to latitude 32°30&min; N., longitude 86°25&min; W.; thence to latitude 33°22&min; N., longitude 85°00&min; W.; thence to latitude 36°35&min; N., longitude 79°20&min; W.; thence to latitude 40°11&min; N., longitude 76°24&min; W.; thence to latitude 41°24&min; N., longitude 74°30&min; W.; thence to latitude 41°43&min; N., longitude 72°40&min; W.; thence to latitude 42°13&min; N., longitude 72°44&min; W.; thence to latitude 42°13&min; N., longitude 72°44&min; W.; thence to latitude 43°12&min; N., longitude 71°30&min; W.; thence to latitude 43°45&min; N., longitude 70°30&min; W.; thence to latitude 45°00&min; N., longitude 69°30&min; W.; thence to latitude 47°10&min; N., longitude 67°55&min; W., point of beginning.

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

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

[21 FR 2750, Apr. 28, 1956. Redesignated by Amdt. 1-1, 28 FR 6718, June 29, 1963]

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§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&min; N., longitude 108°00&min; W.; thence to latitude 46°45&min; N., longitude 104°00&min; W.; thence to latitude 44°06&min; N., longitude 103°15&min; W.; thence to latitude 43°00&min; N., longitude 103°15&min; W.; thence to latitude 41°52&min; N., longitude 103°39&min; W.; thence to latitude 35°11&min; N., longitude 103°39&min; W.; thence to latitude 33°17&min; N., longitude 104°27&min; W.; thence to latitude 32°17&min; N., longitude 104°14&min; W.; thence to latitude 29°48&min; N., longitude 102°00&min; W.

(b) *Exceptions.*

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

(2) Beginning at latitude 49°00&min; N., longitude 122°21&min; W.; thence to latitude 48°34&min; N., longitude 122°21&min; W.; thence to latitude 48°08&min; N., longitude 122°00&min; W.; thence to latitude 47°12&min; N., longitude 122°00&min; W.; thence to latitude 46°59&min; N., longitude 122°13&min; W.; thence to latitude 46°52&min; N., longitude 122°16&min; W.; thence to latitude 46°50&min; N., longitude 122°40&min; W.; thence to latitude 46°35&min; N., longitude 122°48&min; W.; thence to latitude 46°35&min; N., longitude 123°17&min; W.; thence to latitude 47°15&min; N., longitude 123°17&min; W.; thence to latitude 47°41&min; N., longitude 122°54&min; W.;

thence to latitude 48°03&min; N., longitude 122°48&min; W.; thence to latitude 48°17&min; N., longitude 123°15&min; W.; thence North and East along the United States and Canada Boundary to latitude 49°00&min; N., longitude 122°21&min; 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]

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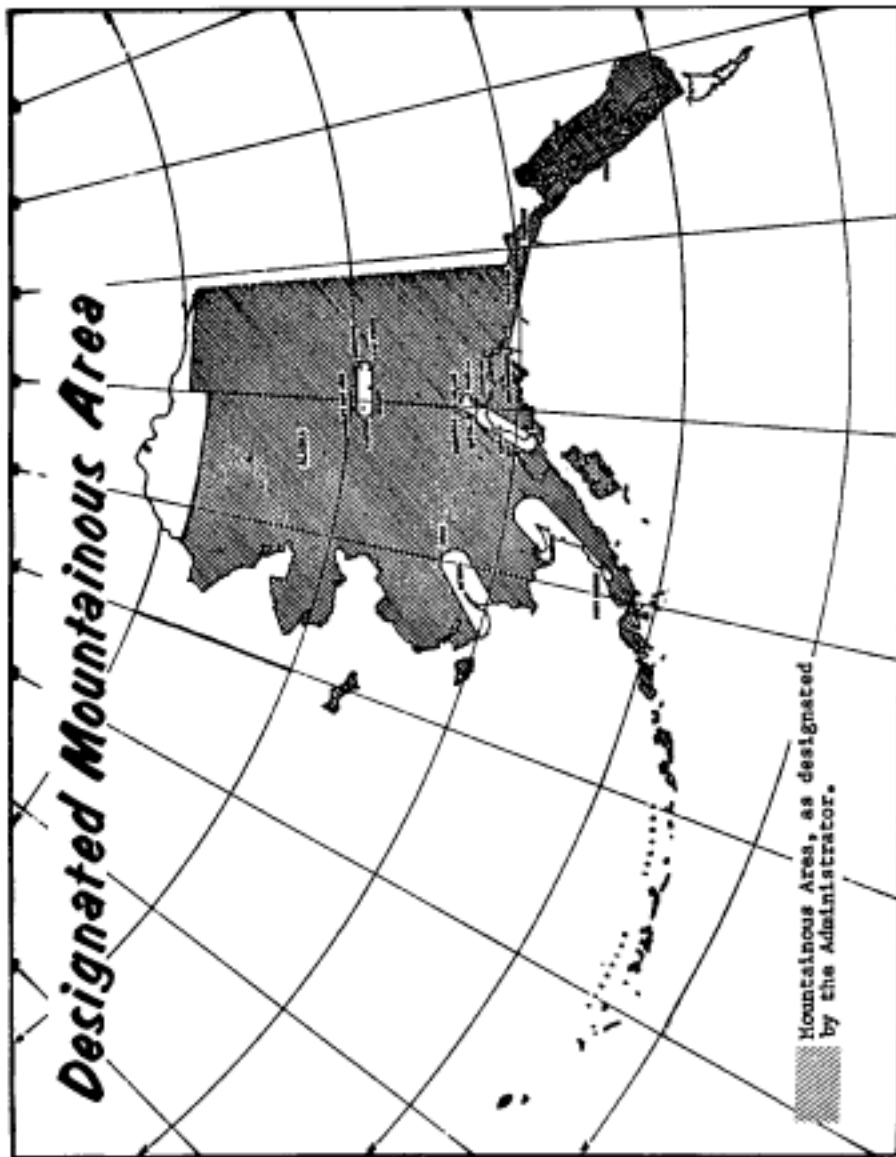
§95.17 Alaska Mountainous Area.

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

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

(b) *Exceptions.*

(1) Beginning at latitude 64°54&min; N., longitude 147°20&min; W.; thence to latitude 64°50&min; N., longitude 151°22&min; W.; thence to latitude 64°26&min; N., longitude 151°22&min; W.; thence to latitude 64°25&min; N., longitude 147°20&min; W.; thence to latitude 64°54&min; N., longitude 147°20&min; W., point of beginning.



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(2) Beginning at latitude $61^{\circ}50'$ N., longitude $151^{\circ}12'$ W.; thence to latitude $61^{\circ}24'$ N., longitude $150^{\circ}28'$ W.; thence to latitude $59^{\circ}40'$ N., longitude $152^{\circ}23'$ W.; thence to latitude $59^{\circ}33'$ N., longitude $151^{\circ}28'$ W.; thence to latitude $60^{\circ}31'$ N., longitude $150^{\circ}43'$ W.; thence to latitude $61^{\circ}13'$ N., longitude $149^{\circ}39'$ W.; thence to latitude $61^{\circ}37'$ N., longitude $149^{\circ}15'$ W.; thence to latitude $61^{\circ}44'$ N., longitude $149^{\circ}48'$ W.; thence to latitude $62^{\circ}23'$ N., longitude $149^{\circ}54'$ W.; thence to latitude $62^{\circ}23'$ N., longitude $150^{\circ}14'$ W.; thence to latitude $61^{\circ}50'$ N., longitude $151^{\circ}12'$ W., point of beginning.

(3) Beginning at latitude $58^{\circ}56'$ N., longitude $156^{\circ}58'$ W.; thence to latitude $58^{\circ}47'$ N., longitude $156^{\circ}27'$ W.; thence to latitude $56^{\circ}43'$ N., longitude $158^{\circ}39'$ W.; thence to latitude $56^{\circ}50'$ N., longitude $159^{\circ}00'$ W.; thence along the shore line to latitude $58^{\circ}56'$ N., longitude $156^{\circ}58'$ W., point of beginning.

(4) Beginning at latitude $61^{\circ}47'$ N., longitude $159^{\circ}40'$ W.; thence to latitude $61^{\circ}34'$ N., longitude $159^{\circ}15'$ W.; thence to latitude $60^{\circ}32'$ N., longitude $161^{\circ}42'$ W.; thence to latitude $60^{\circ}45'$ N., longitude $162^{\circ}06'$ W.; thence to latitude $61^{\circ}47'$ N., longitude $159^{\circ}40'$ W., point of beginning.

(5) Beginning at a point where latitude 69°30&min; intersects the northwest coast of Alaska and eastward along the 69°30&min; parallel to the 150° Meridian; thence northward along the 150° Meridian to 69°50&min; north latitude; thence eastward along the 69°50&min; parallel to a point where 69°50&min; intersects the northeast coastline of Alaska; thence westward along the northern coastline of Alaska to the intersection of latitude 69°30&min;., point of beginning.

[21 FR 2750, Apr. 28, 1956, as amended by Amdt. 88, 27 FR 4356, May 8, 1962. Redesignated by Amdt. 1-1, 28 FR 6718, June 29, 1963]

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§95.19 Hawaii Mountainous Area.

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



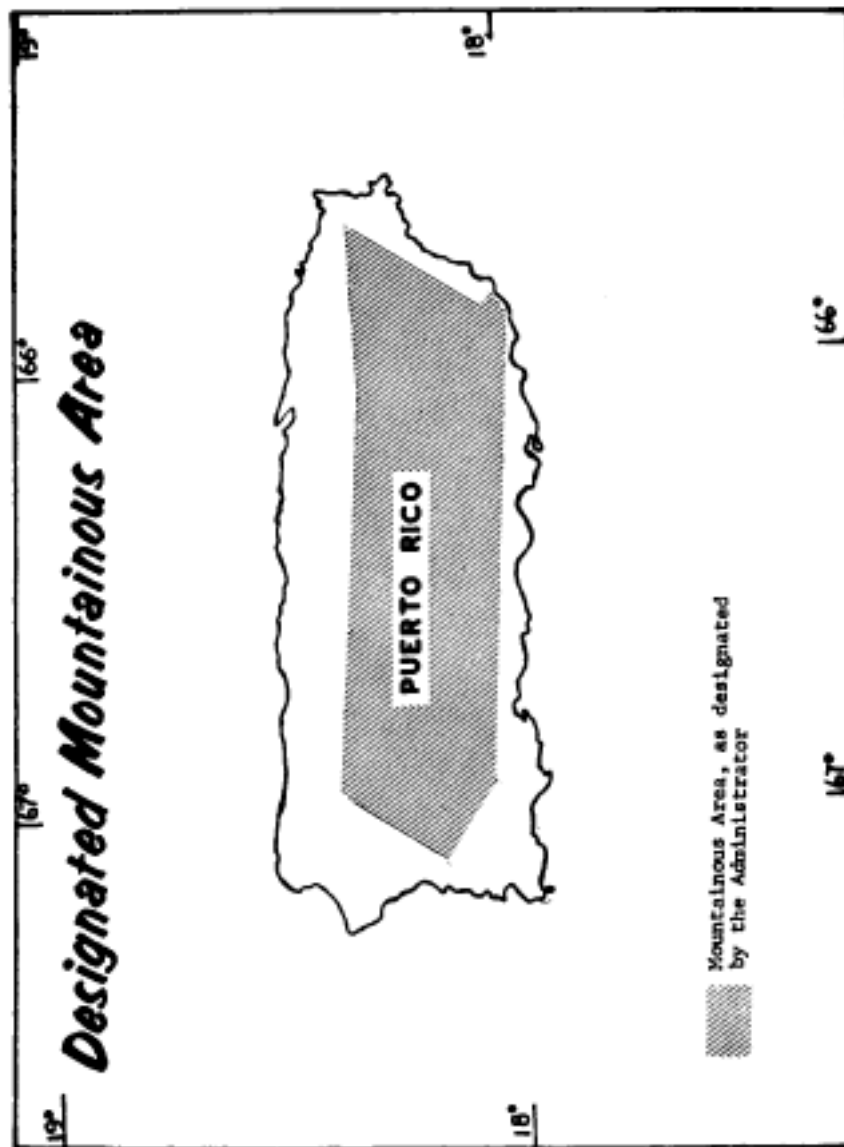
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§95.21 Puerto Rico Mountainous Area.

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 latitude 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.



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[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]

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 on GPO Access.

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§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 on GPO Access.

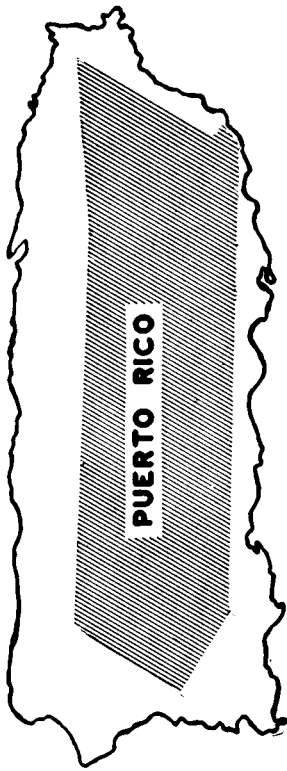
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§95.8001 General.

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]

Designated Mountainous Area



Mountainous Area, as designated
by the Administrator



19°

166°

18°

167°

167°

166°

Designated Mountainous Area



• KAUNA



MOLOKAI



LANAI



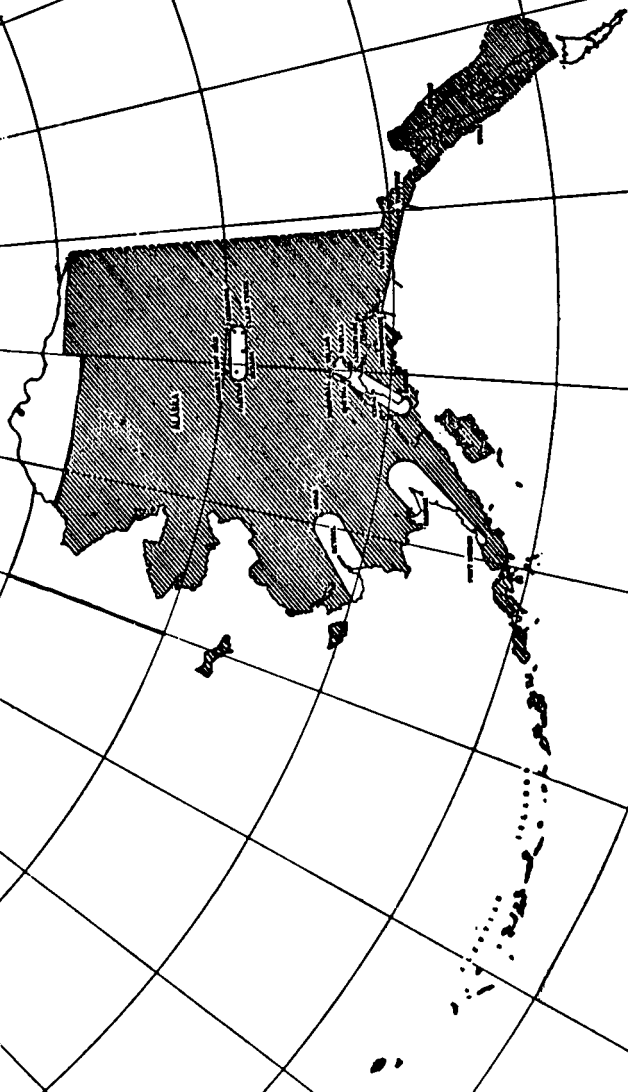
KAHOLAWE



Mountainous Area, as designated
by the Administrator



Designated Mountainous Area



Mountainous Area, as designated
by the Administrator.

