

CHAPTER 1 GENERAL

1.1 PURPOSE AND SCOPE

1.1.1 Purpose

These specifications serve as a guide in the preparation of the IFR Enroute High Altitude chart series for the conterminous United States, Alaska and portions of Canada, Mexico, Russia, and the Caribbean providing users with satisfactory charts for operational use. Foreign areas are included for transitional purposes only.

These specifications provide appropriate guidelines to effect uniformity and standardization of content and portrayal techniques in the preparation and production of IFR Enroute High Altitude charts.

Although the digital chart files are compiled in accordance with these specifications, the final product may vary slightly in appearance due to differences in printing techniques/processes and/or digital display technique.

1.1.2 Scope

The High Altitude Airspace System is effective at and above 18,000' MSL.

The charts in this series shall serve as the enroute navigational reference for flights in the High Altitude Airspace System and are meant for use by both civil and military pilots. Only such information specifically required for high altitude instrument operations will come within the scope of these specifications. The primary objective is to provide optimum presentation and portrayal of the Enroute High Altitude Flight Rules (IFR) Airspace System based on the users requirements.

Items applicable only to the Alaska High Chart series including the Seattle Inset Chart are so noted within these specifications by the designation **(AK)** positioned immediately to the right of the paragraph, table, or figure number or immediately preceding unnumbered paragraphs.

1.2 REQUIREMENTS

1.2.1 General

This IFR Enroute High Altitude chart series consists of twelve charts printed front and back for the conterminous U.S. and two charts printed front and back for Alaska. The Alaska charts will contain a Seattle Inset chart. This chart series may be supplemented by Special Notices, as required.

1.2.2 Safety, Accuracy and Currency

Safe navigation is dependent upon the ability of the pilot to rapidly identify and associate data on the chart with aircraft instruments and navigational equipment. The charts in this series should contain built-in safety factors that preclude ambiguity and misinterpretation, avoid duplication of data, and provide rapid identification of correct information. Accuracy of the data is critical.

Consistent with the accuracy of the data contained on the charts, such charts shall be maintained current and published on a revision schedule coinciding with the effective date and schedule of airspace changes.

1.2.3 Title

The title of this series of charts shall be:

Figure 1.1 Title Label
 UNITED STATES GOVERNMENT
 FLIGHT INFORMATION PUBLICATION
IFR ENROUTE HIGH ALTITUDE - U.S.

OR

UNITED STATES GOVERNMENT
 FLIGHT INFORMATION PUBLICATION
IFR ENROUTE HIGH ALTITUDE - ALASKA

1.2.4 Areas of Coverage

References:

[Appendix 1](#) - Enroute Chart Area of Coverage - U.S.

[Appendix 2](#) - Enroute Chart Area of Coverage - AK

The IFR Enroute High Altitude - U.S. charts cover the conterminous U.S. and portions of Canada, Mexico and the Caribbean. The limits of each chart are defined by the following corner coordinates:

Table 1.1 U.S. Corner Coordinates - IFR Enroute High Altitude

Chart Number	SW Corner	NW Corner	NE Corner	SE Corner
H-1	42°00' 03.6"N	48°08' 25.3"N	50°05' 08.8"N	43°47' 26.8"N
	129°02' 06.1"W	131°12' 23.9"W	104°01' 54.5"W	104°23' 49.7"W
H-2	43°07' 56.5"N	49°22' 56.0"N	49°31' 20.0"N	43°15' 40.1"N
	107°02' 28.2"W	108°18' 25.0"W	83°14' 24.7"W	84°21' 42.7"W
H-3	35°42' 24.5"N	42°00' 04.9"N	43°47' 26.8"N	37°20' 39.5"N
	127°12' 20.7"W	129°02' 06.7"W	104°23' 49.7"W	104°42' 05.0"W
H-4	29°28' 04.6"N	35°42' 20.9"N	37°20' 40.7"N	30°57' 40.5"N
	125°40' 24.6"W	127°12' 17.4"W	104°42' 05.1"W	104°57' 15.0"W
H-5	36°43' 53.2"N	43°07' 56.5"N	43°15' 40.1"N	36°50' 57.3"N
	105°58' 54.0"W	107°02' 28.2"W	84°21' 42.7"W	85°18' 00.0"W
H-6	30°18' 15.1"N	36°41' 19.1"N	36°53' 08.0"N	30°29' 01.0"N
	105°29' 18.6"W	106°24' 40.0"W	85°43' 52.7"W	86°29' 00.2"W
H-7	24°03' 24.0"N	30°18' 15.1"N	30°29' 28.8"N	24°13' 35.1"N
	104°42' 30.3"W	105°29' 18.6"W	86°34' 44.0"W	87°12' 24.1"W

Table 1.1 U.S. Corner Coordinates - IFR Enroute High Altitude (Continued)

Chart Number	SW Corner	NW Corner	NE Corner	SE Corner
H-8	24°37' 12.9"N	30°55' 05.6"N	29°17' 13.0"N	23°08' 23.3"N
	90°07' 33.7"W	90°09' 05.6"W	71°24' 16.6"W	72°45' 06.8"W
H-9	30°54' 13.7"N	37°20' 19.4"N	35°08' 33.1"N	28°54' 09.5"N
	88°02' 25.8"W	87°52' 57.8"W	67°38' 21.6"W	69°23' 18.0"W
H-10	37°19' 27.1"N	43°46' 17.9"N	41°14' 00.4"N	35°00' 02.0"N
	87°09' 24.3"W	86°53' 50.4"W	64°49' 46.6"W	66°57' 22.1"W
H-11	42°53' 01.7"N	49°11' 14.2"N	46°32' 18.5"N	40°26' 49.9"N
	84°39' 35.5"W	84°07' 07.1"W	62°39' 56.2"W	65°07' 11.4"W
H-12	32°28' 40.4"N	45°56' 55.5"N	42°11' 41.1"N	29°21' 42.1"N
	87°35' 54.2"W	74°19' 07.6"W	68°48' 39.5"W	82°25' 14.4"W

(AK) The IFR Enroute High Altitude - Alaska charts cover Alaska and portions of Canada and Russia. The limits of each chart are defined by the following coordinates, beginning in the lower left corner (A or SW) of each chart and continuing clockwise (B, C, D, E, and F):

Table 1.2 (AK) Corner Coordinates - IFR Enroute High Altitude

	A	B	C	D
H-1	64°28' 20.9"N	74°12' 19.6"N	45°22' 23.8"N	42°54' 24.7"N
	174°57' 15.7"W	154°13' 36.8"W	119°23' 38.2"W	128°17' 06.9"W
	E	F		
	56°19' 10.3"N	52°46' 22.7"N		
	139°44' 31.5"W	147°54' 26.2"W		
	SW Corner	NW Corner	NE Corner	SE Corner
H-2	41°25' 44.9"N	50°55' 42.9"N	165°27' 43.9"N	52°47' 15.2"N
	164°55' 03.8"E	152°32' 26.3"E	147°48' 54.1"W	147°44' 09.7"W

(AK) The Seattle Inset Chart shall be labeled accordingly and located on the IFR Enroute High Altitude - Alaska chart H-1. The limits of the Seattle Inset Chart are defined by the following coordinates:

Table 1.3 (AK) Seattle Inset Chart

	SW Corner	NW Corner	NE Corner	SE Corner
SEATTLE	42°45' 00.3"N	42°47' 02.6"N	51°11' 08.4"N	51°08' 43.4"N
(AK) H-1 Inset	125°23' 04.4"W	121°09' 44.2"W	120°55' 04.8"W	125°55' 01.7"W

1.2.5 Scales

The scale of the IFR Enroute High Altitude - U.S. charts H-1 to H-11 shall be 1" = 20 NM (1:1,458,268). The scale for H-12 shall be 1" = 17NM (1:1,239,527).

(AK) The scale of the IFR Enroute High Altitude - Alaska charts shall be 1" = 40 NM (1:2,916,535).

(AK) The scale of the Seattle Inset Chart shall be 1' = 22.5 NM (1:1,640,551).

1.2.6 Central Meridians

The Central Meridian of the IFR Enroute High Altitude - U.S. charts shall be 95°W.

(AK) The Central Meridian of the IFR Enroute High Altitude - Alaska charts shall be 154°W.

(AK) The Central Meridian of the Seattle Inset Chart shall be 124°W.

1.2.7 Projections

The Lambert Conformal Conic Projection with standard parallels of 33°N and 45°N shall be used for the IFR Enroute High Altitude - U.S. charts.

(AK) The Lambert Conformal Conic Projection with standard parallels of 37°N and 65°N shall be used for the IFR Enroute High Altitude - Alaska charts.

(AK) The Lambert Conformal Conic Projection with standard parallels of 37°N and 65°N shall be used for the Seattle Inset Chart.

1.2.8 Colors

Colors for printing shall be adapted for use under red and white lighting conditions, both day and night. Colors used shall be blue, brown, black, and green.

1.2.9 Symbolization

Symbolization shall be in accordance with the symbols included in the Appendices. These symbols have been developed by the United States Government Interagency Air Committee (IAC) for the purpose of standardization.

1.2.10 Type Styles

All type styles, unless otherwise specified, shall be Futura Medium.

Type styles and sizes shall be as indicated within these specifications, or their equivalent. Equivalent shall be such as to equal the height, width and lineweight of the specified style of type. Type size may be reduced in areas of extreme congestion.

All text shall be in all caps unless otherwise stated as caps and lowercase (C/L).