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 Low Altitude chart series for the conterminous United States, Alaska and portions of Canada, Mexico, Russia and 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 Low 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 Low Altitude Airspace System is effective up to, but not including 18,000' MSL.

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

Items applicable only to the Alaska Enroute Low Altitude Charts 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

The Enroute Low Altitude Chart series shall consist of 36 charts for the conterminous U.S. and four charts for Alaska. All charts shall be printed front and back.

In addition, the Enroute Low Altitude Chart series shall be supplemented with:

- Area charts of high density area traffic areas.
- **(AK)** Route Selection Chart.
- **(AK)** Supplement Alaska
- 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 the revision schedule coinciding with the effective date and schedule of airspace changes.

1.2.3 Titles

1.2.3.1 Enroute Low Altitude Chart Series

The title for the conterminous U.S. and Alaska enroute low altitude charts shall be:

Figure 1.1 Enroute Low Title Labels

UNITED STATES GOVERNMENT
FLIGHT INFORMATION PUBLICATION
IFR ENROUTE LOW ALTITUDE - U.S.

OR

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

1.2.3.2 Area Chart

The title for the Area Enroute Low Altitude charts shall be:

Figure 1.2 Area Chart Title Label

UNITED STATES GOVERNMENT
FLIGHT INFORMATION PUBLICATION
IFR AREA CHARTS - U.S.

1.2.4 Areas of Coverage

1.2.4.1 Enroute Charts - U.S.

References:

Appendix 1 - Low Enroute Chart Area of Coverage – U.S.

Area of coverage shall be comprised of 36 overlapping areas or charts covering the conterminous United States including portions of Canada, the Caribbean and Mexico. (See Appendices).

The limits of each chart are defined by the following corner coordinates (corner coordinates are organized starting from the NW corner and go in a clockwise manner there after):

Table 1.1 U.S. - Corner Coordinates - IFR Low Enroute

CHART NUMBER	A	B	C	D
L-1	49°18'27.6"N	49°19'10.0"N	42°48'25.7"N	42°47'46.9"N
	124°59'08.9"W	121°13'06.1"W	121°21'37.5"W	124°45'31.4"W
L-2	42°47'32.9"N	43°07'53.6"N	37°16'09.9"N	36°57'24.0"N
	124°54'20.9"W	121°31'51.1"W	120°39'55.7"W	123°46'25.8"W
L-3	38°38'40.7"N	39°44'36.8"N	33°44'29.3"N	32°43'55.4"N
	123°34'58.1"W	120°41'00.9"W	117°21'38.5"W	120°04'52.3"W

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

L-4	34°58'48.2"N	34°24'27.8"N	32°14'35.5"N	32°47'51.6"N
	120°41'44.2"W	114°29'28.9"W	114°51'47.9"W	120°53'41.1"W
L-5	34°34'44.3"N	34°14'00.8"N	31°07'37.6"N	31°27'07.7"N
	115°24'12.8"W	107°32'25.8"W	107°52'53.5"W	115°26'11.4"W
L-6N	34°22'41.8"N	34°59'35.9"N	31°52'34.6"N	31°17'19.0"N
	108°15'31.9"W	101°24'29.3"W	101°09'03.0"W	107°43'54.8"W
L-6S	31°24'01.7"N	31°44'44.8"N	28°39'10.1"N	28°19'23.6"N
	106°46'15.3"W	103°05'47.0"W	102°47'04.0"W	106°19'11.7"W
L-7	35°40'05.1"N	36°36'24.1"N	34°25'36.3"N	33°31'01.1"N
	121°10'54.5"W	114°10'58.3"W	113°51'07.0"W	120°39'21.9"W
L-8	36°33'34.4"N	37°45'40.2"N	34°38'47.8"N	33°29'49.5"N
	114°23'47.3"W	105°17'45.6"W	104°52'04.8"W	113°36'22.8"W
L-9	40°12'47.9"N	41°32'04.7"N	37°08'47.9"N	35°54'11.9"N
	120°45'33.0"W	105°41'40.3"W	105°31'10.4"W	119°42'00.4"W
L-10	40°52'06.4"N	41°22'21.2"N	37°36'34.7"N	37°07'52.3"N
	106°00'52.8"W	94°19'31.5"W	94°21'37.7"W	105°26'46.7"W
L-11	43°54'59.5"N	44°12'54.5"N	39°50'26.9"N	39°33'34.2"N
	121°52'37.6"W	105°58'43.9"W	106°19'44.2"W	121°14'06.0"W
L-12	45°11'24.4"N	45°07'08.6"N	40°45'25.9"N	40°49'27.9"N
	106°45'06.9"W	92°13'58.8"W	92°43'59.0"W	106°19'50.1"W
L-13	48°53'42.9"N	49°00'16.1"N	44°03'38.5"N	43°57'29.6"N
	122°09'46.7"W	102°30'07.0"W	103°11'30.9"W	121°21'30.2"W
L-14	48°35'44.7"N	49°04'14.1"N	44°43'53.7"N	44°17'00.4"N
	87°56'49.2"W	103°20'13.1"W	103°06'14.4"W	88°44'35.8"W
L-15	37°51'03.3"N	38°18'50.2"N	35°10'44.1"N	34°44'09.8"N
	105°18'32.7"W	94°55'17.1"W	94°55'28.4"W	104°52'47.5"W
L-16	38°18'50.2"N	37°55'41.2"N	34°48'35.5"N	35°10'44.1"N
	94°55'17.1"W	85°35'14.8"W	85°58'47.5"W	94°55'28.4"W
L-17	34°59'35.9"N	35°08'58.8"N	32°01'32.3"N	31°52'34.6"N
	101°24'30.2"W	92°26'43.1"W	92°32'53.2"W	101°09'02.9"W
L-18	35°08'58.8"N	34°28'15.9"N	31°22'38.2"N	32°01'32.3"N
	92°26'43.1"W	82°31'44.5"W	83°01'31.6"W	92°32'53.2"W

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

L-19	31°44'44.8"N	32°02'36.5"N	28°56'12.9"N	28°39'10.1"N
	103°05'47.0"W	93°31'33.9"W	93°34'59.2"W	102°47'03.1"W
L-20	28°43'08.9"N	28°56'12.9"N	25°51'24.1"N	25°38'57.3"N
	101°50'58.4"W	93°34'59.2"W	93°38'09.8"W	101°35'43.0"W
L-21 Gulf of Mexico	31°30'18.6"N	30°34'46.5"N	23°35'04.8"N	24°24'52.8"N
	98°02'55.3"W	80°43'23.4"W	81°54'33.4"W	97°47'31.0"W
L-22	32°02'36.5"N	31°22'38.2"N	28°18'03.7"N	28°56'12.9"N
	93°31'33.9"W	83°01'31.6"W	83°29'01.9"W	93°34'59.2"W
L-23	27°49'57.2"N	26°41'15.4"N	23°41'42.5"N	24°47'12.5"N
	83°30'49.5"W	75°57'40.1"W	76°38'50.8"W	83°56'06.8"W
L-24	35°05'42.8"N	34°35'58.0"N	27°23'30.1"N	27°50'12.1"N
	82°25'26.5"W	78°40'27.5"W	80°07'32.0"W	83°33'02.1"W
L-25	36°59'31.8"N	36°17'08.1"N	34°07'29.8"N	34°48'35.5"N
	85°42'30.9"W	79°21'36.0"W	79°48'39.0"W	85°58'47.5"W
L-26	39°11'03.2"N	38°21'21.5"N	36°11'48.9"N	37°00'00.7"N
	85°31'16.4"W	78°14'46.4"W	78°44'32.7"W	85°45'22.0"W
L-27	41°26'52.0"N	40°53'45.2"N	37°47'01.8"N	38°18'44.2"N
	94°19'28.7"W	83°28'35.2"W	83°58'34.4"W	94°21'15.1"W
L-28	44°33'21.7"N	43°57'33.4"N	40°51'29.8"N	41°25'48.5"N
	92°42'57.3"W	82°31'36.1"W	83°05'30.1"W	92°49'13.9"W
L-29	41°12'24.3"N	40°21'43.2"N	38°12'33.6"N	39°01'45.3"N
	83°25'25.9"W	76°43'18.8"W	77°16'40.5"W	83°46'54.1"W
L-30	43°20'23.7"N	42°19'19.7"N	40°10'49.8"N	41°10'07.2"N
	82°38'38.8"W	74°58'13.3"W	75°35'45.5"W	83°02'15.2"W
L-31	48°03'26.3"N	45°39'49.1"N	42°07'27.7"N	44°24'18.0"N
	88°03'32.6"W	75°45'42.4"W	77°27'46.3"W	89°08'24.2"W
L-32	46°02'46.4"N	47°56'09.6"N	43°35'36.2"N	41°48'34.9"N
	79°29'47.0"W	63°04'30.3"W	62°37'08.3"W	78°00'33.5"W
L-33	42°26'24.7"N	43°21'37.0"N	41°11'59.7"N	40°18'22.7"N
	76°11'04.2"W	70°06'00.7"W	69°36'38.1"W	75°30'48.2"W

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

L-34	A	B	C	D
	43°12'27.0"N 73°28'55.6"W	42°40'50.6"N 72°35'33.3"W	42°35'22.8"N 72°05'58.9"W	42°49'37.0"N 71°35'48.1"W
	E	F	G	
	42°12'31.9"N 70°41'54.5"W	37°27'35.7"N 76°08'48.8"W	38°50'41.3"N 78°18'18.4"W	
	A	B	C	D
L-35	37°39'03.8"N	35°53'34.5"N	33°06'10.3"N	34°47'27.7"N
	75°49'07.0"W	74°11'07.8"W	78°33'20.7"W	80°13'40.1"W
L-36	39°53'18.3"N	38°27'52.7"N	33°34'42.5"N	34°54'20.9"N
	76°38'23.8"W	74°29'32.2"W	79°27'23.1"W	81°33'13.4"W

1.2.4.2 (AK) Enroute Charts - Alaska

The area of coverage shall be comprised of four overlapping areas or charts covering Alaska and portions of Canada and Russia.

The basic chart coverage shall be supplemented with Area Charts, covering Vancouver, Anchorage, Fairbanks, Juneau, Nome, and a Route Selection Chart appearing on the appropriate Enroute Chart.

The limits of each chart are defined by the following coordinates, beginning in the upper left corner (NW Corner) of the chart and reading clockwise:

References:

Appendix 2 - Alaska Low Enroute Chart Area of Coverage

Table 1.2 (AK) - Corner Coordinates - IFR Low Enroute

CHART NUMBER	CORNER			
L-1	A	B	C	D
	65°13'04.4"N	47°39'51.5"N	45°42'45.3"N	51°43'35.9"N
	142°26'40.2"W	121°28'22.0"W	126°56'06.1"W	132°33'58.9"W
	E	F	G	H
	49°30'46.9"N	51°57'59.6"N	54°25'45.9"N	58°12'26.6"N
	137°22'30.6"W	140°30'20.5"W	135°17'33.7"W	140°38'56.7"W
	I	J		
	55°31'50.6"N	59°31'02.5"N		
	145°59'31.4"W	154°08'31.0"W		
L-2 West Portion	A	B	C	D
	52°58'20.3"N	54°47'03.3"N	53°31'21.0"N	55°07'53.1"N
	172°43'08.8"E	178°25'35.8"E	179°27'21.6"E	173°55'53.7"W
	E	F		
	51°55'12.7"N	48°46'14.4"N		
	172°02'57.8"W	176°24'14.4"E		

Table 1.2 (AK) - Corner Coordinates - IFR Low Enroute (Continued)

CHART NUMBER	CORNER			
L-2 Central Portion	A	B	C	D
	56°17'24.6"N	58°58'32.6"N	54°20'38.2"N	51°55'12.7"N
	175°19'57.3"W	161°18'43.2"W	159°19'17.5"W	172°02'57.8"W
L-2 East Portion	A	B	C	D
	58°58'32.6"N	60°05'14.2"N	55°20'24.9"N	54°20'38.2"N
	161°18'43.2"W	145°48'58.9"W	145°32'08.0"W	159°19'17.5"W
L-3	A	B	C	D
	64°21'27.0"N	64°19'03.5"N	56°35'49.8"N	56°19'21.1"N
	171°10'23.5"W	136°26'51.7"W	139°53'53.8"W	170°26'12.3"W
	E	F		
	60°06'27.8"N	60°26'39.6"N		
	172°10'16.1"W	169°15'56.5"W		
L-4	A	B	C	D
	71°24'49.7"N	71°01'42.6"N	63°36'25.6"N	63°05'38.2"N
	169°55'04.2"W	133°24'15.1"W	138°18'01.6"W	174°14'32.7"W
	E	F	G	
	63°36'01.4"N	67°40'29.4"N	67°55'13.8"N	
	174°33'58.5"W	170°52'40.1"W	167°50'19.4"W	

1.2.4.3 Inset Charts - U.S.

The area of coverage of each Inset Chart is such as to coordinate and chart overwater routes between coverage of the basic Enroute chart series, providing concurrently, transition points to and from the Inset Chart.

The limits of each Inset Chart are defined by the following corner coordinates:

Table 1.3 U.S. - Inset Charts - IFR Low Enroute

CHART NUMBER	CORNER			
Boston-Yarmouth 1:30	A	B	C	D
	42°49'42.4"N 71°13'11.1"W	44°03'29.1"N 65°59'36.0"W	42°45'41.8"N 65°57'08.5"W	41°59'36.7"N 67°00'00.5"W
	E			
	41°01'43.9"N 70°22'31.6"W			
Wilmington-Bimini 1:31	A	B	C	D
	35°17'27.6"N 81°16'09.0"W	34°46'24.2"N 76°56'04.7"W	25°16'51.7"N 78°40'42.1"W	25°43'45.5"N 82°31'36.9"W

1.2.4.4 U.S. Area Chart (A-1 & A-2)

The U.S. Area Chart consists of A-1 and A-2 which is made up of individual area charts. The term Area Charts refers to U.S. Area Charts (A-1 & A-2).

References:

Appendix 54 - Chart Area of Coverage - Area Charts

1.2.4.5 U.S. & Alaska Area Charts

The term Area Charts refers to the chart contained within the U.S. Area Charts (A-1 & A-2) and **(AK)** Alaska Enroute Charts.

The basic enroute chart coverage will be supplemented by area charts for any area on the IFR Enroute Low Altitude Charts where the depiction of information is such as to preclude safe operation of aircraft within that area. This situation may exist when either of the following occurs:

- The amount of detail required or portrayal techniques used result in congestion of information.
- The depiction of an important terminal area at the edge of an Enroute Chart makes entry into this area difficult.

The following Area Charts are an integral part of the basic Enroute Chart series for the conterminous United States:

Table 1.4 U.S. - Area Charts - IFR Low Enroute

CHART IDENTIFICATION	
FRONT SIDE (A-1)	**REVERSE SIDE (A-2)**
Atlanta	Chicago / Milwaukee
Detroit	Dallas / Ft. Worth
Jacksonville	Denver
Miami	Kansas City
Minneapolis / St.Paul	Los Angeles
St. Louis	Phoenix
Washington	San Francisco

Table 1.5 U.S. - Area Chart A-1 Corner Coordinates - IFR Low Enroute

CITY	A	B	C	D
Atlanta	34°05'55.2"N	34°05'51.4"N	33°10'29.8"N	33°10'33.5"N
	84°57'58.0"W	83°49'55.9"W	83°50'24.9"W	84°57'37.8"W
Detroit	42°44'15.3"N	42°44'16.4"N	41°58'04.8"N	41°59'03.7"N
	83°49'09.4"W	82°45'09.6"W	82°45'29.9"W	83°48'46.1"W
Jacksonville	30°54'11.943"N	30°54'15.904"N	29°59'14.160"N	29°59'10.254"N
	82°09'01.830"W	81°03'45.572"W	81°04'03.805"W	82°08'34.711"W
Miami	26°18'33.061"N	26°18'35.738"N	25°24'18.772"N	25°24'16.132"N
	80°50'11.859"W	79°48'33.735"W	79°48'51.093"W	80°49'48.751"W
Minneapolis/ St. Paul	45°26'00.211"N	45°26'08.872"N	44°12'31.938"N	44°12'23.419"N
	94°03'49.524"W	92°17'07.623"W	92°17'55.965"W	94°02'37.561"W

Table 1.5 U.S. - Area Chart A-1 Corner Coordinates - IFR Low Enroute (Continued)

CITY	A	B	C	D
St. Louis	39°11'10.806"N	39°11'15.927"N	38°15'43.255"N	38°15'38.199"N
	90°59'39.655"W	89°46'44.476"W	89°47'06.382"W	90°59'05.035"W
Washington	38°13'08.3"N	38°10'01.3"N	40°23'45.8"N	40°26'58.6"N
	078°23'11.4"W	074°43'36.4"W	074°36'56.4"W	078°23'34.1"W

Table 1.6 U.S. - Area Chart A-2 Corner Coordinates - IFR Low Enroute

CITY	A	B	C	D
Chicago/ Milwaukee	43°16'36.2"N	43°16'34.7"N	41°22'06.1"N	41°22'07.6"N
	88°36'13.3"W	87°18'48.2"W	87°19'57.2"W	88°35'12.7"W
Dallas/Ft. Worth	33°43'10.0"N	33°42'49.2"N	31°30'01.0"N	31°29'40.8"N
	98°06'43.5"W	96°05'46.2"W	98°05'34.6"W	96°07'59.2"W
Denver	40°22'30.0"N	40°22'30.0"N	39°17'50.0"N	39°17'50.0"N
	105°23'00.0"W	103°56'40.0"W	105°22'20.0"W	103°57'15.0"W
Kansas	40°52'06.4"N	41°22'21.2"N	37°36'34.7"N	37°07'52.3"N
	106°00'52.8"W	94°19'31.5"W	94°21'37.7"W	105°26'46.7"W
Los Angeles	34°34'09.666"N	34°19'30.630"N	33°33'57.045"N	33°48'26.418"N
	118°59'33.666"W	117°03'20.489"W	117°12'12.613"W	119°07'17.595"W
Phoenix	34°05'40.8"N	34°05'43.3"N	32°47'19.2"N	32°47'16.8"N
	112°50'56.2"W	111°14'33.2"W	111°15'19.6"W	112°50'04.2"W
San Francisco	38°16'17.44"N	38°16'19.153"N	37°20'46.0"N	37°20'44.309"N
	122°53'44.663"W	121°41'44.428"W	121°42'09.891"W	122°53'14.972"W

(AK) The following Area Charts are an integral part of the basic Enroute Chart series for Alaska:

Table 1.7 (AK) Area Charts - IFR Low Enroute

CHART NAME	A	B	C	D
Vancouver Area Chart	49°40'40.1"N	47°41'27.4"N	47°11'18.0"N	49°09'12.5"N
	122°56'33.3"W	121°29'15.6"W	123°00'49.3"W	124°30'57.8"W
Juneau Area Chart	60°00'54.0"N	58°09'32.7"N	56°44'57.6"N	58°32'36.2"N
	135°51'58.9"W	132°38'59.1"W	135°35'32.6"W	138°49'44.0"W
Anchorage Area Chart	**A**	**B**	**C**	**D**
	62°43'06.6"N	61°36'52.5"N	60°08'29.9"N	60°18'32.7"N
	151°17'19.2"W	144°00'24.1"W	145°07'42.9"W	146°04'33.2"W
	E	**F**	**G**	
	59°05'39.1"N	58°50'47.3"N	59°21'12.9"N	
	149°16'41.8"W	149°25'18.7"W	153°04'08.4"W	
	A	**B**	**C**	**D**

Table 1.7 (AK) Area Charts - IFR Low Enroute (Continued)

CHART NAME	A	B	C	D
Fairbanks Area Chart	65°15'07.6"N	65°17'07.9"N	63°45'44.0"N	63°43'49.9"N
	150°10'25.4"W	145°06'14.6"W	145°10'14.7"W	149°59'58.6"W
Nome Area Chart	63°23'12.1"N	65°23'24.5"N	63°51'53.0"N	63°52'03.5"N
	166°59'50.6"W	163°17'57.7"W	166°54'10.2"W	163°22'49.1"W

1.2.4.6 (AK) Route Selection Chart (on Chart L-2)

Table 1.8 (AK) - Route Selection Chart

A	B	C	D
69°13'55.5"N	71°55'33.3"N	56°24'31.7"N	54°36'14.4"N
174°47'33.6"W	141°00'10.8"W	141°00'49.3"W	162°24'57.9"W

1.2.5 Scales

Fractional equivalents based on 6,076.11549'= 1NM

1.2.5.1 U.S. Enroute Charts

Charts for the conterminous U.S. shall be compiled and drawn at the following scales:

Table 1.9 U.S. - Enroute Chart Scales

CHART NUMBER	SCALE		CHART NUMBER	SCALE
L-1	1"=8NM (1:583,307)		L-19	1"=10NM (1:729,133)
L-2	1"=8NM (1:583,307)		L-20	1"=10NM (1:729,133)
L-3	1"=8NM (1:583,307)		L-21	1"=23NM (1:1,677,005)
L-4	1"= 7NM (1:510,393)		L-22	1"=10NM (1:729,133)
L-5	1"=10NM (1:729,133)		L-23	1"=10NM (1:729,133)
L-6	1"=10NM (1:729,133)		L-24	1"=10NM (1:729,133)
L-7	1"= 7NM (1:510,393)		L-25	1"= 7NM (1:510,393)
L-8	1"=10NM (1:729,133)		L-26	1"= 7NM (1:510,393)
L-9	1"=14NM (1:1,020,786)		L-27	1"=10NM (1:729,133)
L-10	1"=12NM (1:874,960)		L-28	1"=10NM (1:729,133)
L-11	1"=14NM (1:1,020,786)		L-29	1"= 7NM (1:510,393)
L-12	1"=14NM (1:1,020,786)		L-30	1"= 7NM (1:510,393)
L-13	1"=16NM (1:1,166,614)		L-31	1"=12NM (1:874,960)
L-14	1"=14NM (1:1,020,786)		L-32	1"=14NM (1:1,020,786)
L-15	1"=10NM (1:729,133)		L-33	1"= 7NM (1:510,393)
L-16	1"=10NM (1:729,133)		L-34	1"= 7NM (1:510,393)
L-17	1"=10NM (1:729,133)		L-35	1"= 7NM (1:510,393)
L-18	1"=10NM (1:729,133)		L-36	1"= 7NM (1:510,393)

(AK) The Enroute Charts for Alaska shall be compiled and drawn at the following scales:

Table 1.10 (AK) - Enroute Chart Scales

CHART NUMBER	SCALE
L-1	1"=25NM (1:1,822,834)

Table 1.10 (AK) - Enroute Chart Scales (Continued)

CHART NUMBER	SCALE
L-2 West	1"=25NM (1:1,822,834)
L-2 Central	1"=25NM (1:1,822,834)
L-2 East	1"=25NM (1:1,822,834)
L-3	1"=25NM (1:1,822,834)
L-4	1"=25NM (1:1,822,834)

1.2.5.2 Inset Charts

The insets shall be compiled and drawn at the following scales:

Table 1.11 U.S. - Inset Chart Scales

CHART NAME (Location)	SCALE
Wilmington-Bimini (L-23)	1"=31NM (1:2,260,315)
Boston-Yarmouth (L-34)	1"=23NM (1:1,677,008)

1.2.5.3 Area Charts

Area charts for the conterminous U.S. shall be compiled and drawn at the following scales:

Table 1.12 U.S. - Area Chart Scales

CHART NAME	SCALE	CHART NAME	SCALE
Atlanta	1"= 6NM (1:437,480)	Chicago / Milwaukee	1"= 6NM (1:437,480)
Detroit	1"= 5NM (1:364,566)	Dallas / Ft. Worth	1"= 7NM (1:510,393)
Jacksonville	1"= 6NM (1:437,480)	Denver	1"= 7NM (1:510,393)
Miami	1"= 6NM (1:437,480)	Kansas City	1"= 5NM (1:364,566)
Minneapolis / St.Paul	1"= 8NM (1:583,307)	Los Angeles	1"= 5NM (1:364,566)
St. Louis	1"= 6NM (1:437,480)	Phoenix	1"= 8.5NM (1:619,762)
Washington	1"= 7NM (1:510,393)	San Francisco	1"= 6NM (1:437,480)

(AK) Area charts for Alaska shall be compiled and drawn at the following scales:

Table 1.13 (AK) - Area Chart Scales

CHART NAME (Location)	SCALE
Juneau (AK L-1)	1"= 14NM (1:1,020,787)
Vancouver (AK L-1)	1"= 8NM (1:583,307)
Nome (AK L-3)	1"= 10NM (1:729,133)
Fairbanks (AK L-3)	1" = 10NM (1:729,133)
Anchorage (AK L-4)	1" = 11NM (1:802,046)

1.2.5.4 (AK) Route Selection Chart

Route Selection Chart 1" = 50NM (1:3,645,669)

1.2.6 Central Meridians

1.2.6.1 Enroute Charts

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

(AK) The Central Meridian of the IFR Enroute Low Altitude - Alaska and Route Selection Chart charts shall be 154°W.

1.2.6.2 Area Charts - U.S.

The Central Meridian of the IFR Enroute Low Altitude - U.S. Area charts shall be as specified in the table below.

Table 1.14 U.S. - Area Chart Central Meridians

CHART NAME	CENTRAL MERIDIANS	CHART NAME	CENTRAL MERIDIANS
Atlanta	84°30'00.0"W	Chicago / Milwaukee	88°00'00.0"W
Detroit	83°15'00.0"W	Dallas / Ft. Worth	97°25'00.0"W
Jacksonville	81°30'00.0"W	Denver	104°45'00.0"W
Miami	80°15'00.0"W	Kansas City	94°30'00.0"W
Minneapolis / St.Paul	90°00'00.0"W	Los Angeles	131°44'45.0"W
St. Louis	90°15'00.0"W	Phoenix	112°00'00.0"W
Washington	95°00'00.0"W	San Francisco	122°15'00.0"W

1.2.6.3 (AK) Area Charts - Alaska

The Central Meridian of the IFR Enroute Low Altitude - Alaska Area charts shall be as specified in the table below.

Table 1.15 (AK) Area Chart Central Meridians

CHART NAME (Location)	CENTRAL MERIDIANS
Juneau (AK L-1)	136°W
Vancouver (AK L-1)	122°W
Nome (AK L-3)	166°W
Fairbanks (AK L-3)	148°W
Anchorage (AK L-4)	150°W

1.2.6.4 (AK) Alaska and Route Selection Chart

The Central Meridian of the IFR Enroute Low Altitude - Alaska and Route Selection Chart charts shall be 154°W.

1.2.7 Projections

The Lambert Conformal Conic Projection with standard parallels of 33°N and 45°N shall be used for the conterminous U.S. Low Enroute Charts and Area Charts.

(AK) The Lambert Conformal Conic Projection with standard parallels of 37°N and 65°N shall be used for the charts in the Alaska series.

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 Cartographic Committee (IACC) for the purpose of standardization.

The configuration of the symbols contained herein shall be adhered to. The size and line weight, specified and/or indicated therein, should also be adhered to, but may be varied when absolutely necessary

1.2.10 Type Styles

All type styles, unless otherwise specified, shall be Futura Medium. Other type styles that may be specified include: Copperplate Gothic 31, Helvetica 45 Light, Helvetica 66 Medium Italic, Trade Gothic Bold, and a Reverse.

Type styles and sizes shall be as stated, or their equivalent. Equivalent shall be such as to equal the height, width and line weight of the specified style of type.

The use of capital letters is intended unless otherwise stated as caps and lowercase (C/L).