

KING SALMON, ALASKA (King Salmon Airport), 58°41'N., 156°39'W.; Elevation (ground) 44 feet. WB-1961

Month	Air temperature (°F.)					Precipitation (inches)			Humidity (percent)		Wind (knots)		Percent of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days							
	Normal			Extreme		Normal total	Maximum in 24 hrs.	Snow, sleet, mean total	8:00 a. m. Local time	2:00 p. m. Local time	Mean speed	Prevailing direction			Maximum speed and direction	Sunrise to sunset			Precipitation .01 inch or more	Snow, sleet 1.0 inch or more	Thunderstorms	Heavy fog
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest											Clear	Partly cloudy	Cloudy				
(a)				19	19		19	12	6	6	6	6		6	6	6	6	16	12	6	6	
Jan.	21.7	6.5	14.1	46	-39	1.05	0.87	6.6	79	77	9.8	N		6.9	7	6	18	10	3	0	2	
Feb.	25.4	10.5	18.0	51	-40	1.12	1.04	7.3	79	74	9.9	N		6.7	7	4	17	9	2	0	1	
Mar.	29.3	13.3	21.3	56	-34	1.22	1.03	7.0	78	69	10.3	N		5.9	10	5	16	10	2	0	1	
Apr.	41.2	25.0	33.1	65	-19	0.84	0.82	3.5	80	65	9.6	S		7.8	3	6	21	9	1	0	2	
May	51.5	34.0	42.8	74	4	1.26	0.80	0.3	76	58	9.8	S		8.0	3	6	22	12	0	*	3	
June	60.9	41.9	51.4	88	30	1.64	0.87	T	80	60	9.0	SSW		8.5	2	5	23	12	0	*	5	
July	62.6	46.6	54.6	86	35	2.82	1.06	0.0	84	65	8.9	S		8.8	1	4	26	15	0	1	5	
Aug.	61.8	47.4	54.6	82	31	4.01	1.45	0.0	88	67	9.0	S		8.7	1	5	24	19	0	0	3	
Sep.	55.2	39.9	47.6	74	16	3.37	1.69	0.1	87	68	9.9	S		8.3	2	5	23	17	0	0	3	
Oct.	42.6	29.0	35.8	67	-11	2.52	1.52	3.6	84	69	9.5	N		7.2	6	6	19	14	1	0	3	
Nov.	28.9	15.2	22.1	50	-25	1.32	0.90	5.7	81	78	10.7	N		7.2	6	5	19	12	2	0	3	
Dec.	21.8	6.6	14.2	48	-38	1.29	0.82	8.8	73	74	9.9	N		7.0	7	6	18	12	3	0	3	
Year	41.9	26.3	34.1	88	-40	22.46	1.69	42.9	81	69	9.7	N		7.6	55	64	246	150	14	1	32	

RETHEL, ALASKA (Municipal Airport), 60°47'N., 161°48'W.; Elevation (ground) 125 feet. WB-1961

Month	Air temperature (°F.)					Precipitation (inches)			Humidity (percent)		Wind (knots)		Percent of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days							
	Normal			Extreme		Normal total	Maximum in 24 hrs.	Snow, sleet, mean total	8:00 a. m. Local time	2:00 p. m. Local time	Mean speed	Prevailing direction			Maximum speed and direction	Sunrise to sunset			Precipitation .01 inch or more	Snow, sleet 1.0 inch or more	Thunderstorms	Heavy fog
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest											Clear	Partly cloudy	Cloudy				
(a)				3	3		3	3	3	3	3			3	3	3	3	3	3	3	3	
Jan.	14.6	- 1.1	6.8	39	-33	0.90	0.19	4.4	71	71	14.0	NE		6.8	9	3	19	9	2	0	5	
Feb.	17.2	1.0	9.1	45	-31	0.82	0.77	8.6	71	70	14.3	NNE		6.3	8	6	14	7	3	0	4	
Mar.	20.7	2.2	11.5	43	-29	0.92	0.14	3.7	69	67	12.2	NNE		4.8	14	4	13	7	1	0	2	
Apr.	35.5	18.1	26.8	48	-21	0.55	0.35	8.7	78	73	12.2	N		6.2	8	7	15	12	3	0	4	
May	49.1	30.9	40.0	76	24	0.89	0.44	0.8	84	65	10.8	S		7.6	4	8	19	11	*	0	5	
June	62.3	42.8	52.6	86	28	1.20	0.68	0.0	84	63	10.9	NW		8.1	2	7	21	11	0	*	3	
July	62.4	46.6	54.5	83	31	2.28	1.01	0.0	88	68	11.9	SSW		8.4	2	6	23	17	0	1	4	
Aug.	59.8	45.5	52.7	77	33	4.02	1.21	0.0	92	72	11.1	SSW		8.6	2	5	24	17	0	0	6	
Sep.	52.4	38.1	45.3	62	20	3.01	0.93	0.4	94	73	11.9	SSW		8.6	1	4	25	18	*	*	5	
Oct.	38.1	25.5	31.8	51	4	1.75	0.73	5.8	88	78	13.1	NNE		7.3	5	7	19	11	2	0	5	
Nov.	23.6	10.3	17.0	44	-18	0.97	0.48	10.1	83	81	13.1	NE		7.8	4	5	21	16	3	0	6	
Dec.	14.5	- 0.1	7.2	40	-34	0.85	0.60	9.6	69	68	14.2	NNE		5.9	10	5	16	11	3	0	8	
Year	37.5	21.7	29.6	86	-34	18.17	1.21	52.1	81	71	12.4	NNE		7.2	69	67	229	148	18	2	57	

NOME, ALASKA (Nome Field), 64°30'N., 165°26'W.; Elevation (ground) 13 feet. WB-1961

Month	Air temperature (°F.)					Precipitation (inches)			Humidity (percent)		Wind (knots)		Percent of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days							
	Normal			Extreme		Normal total	Maximum in 24 hrs.	Snow, sleet, mean total	7:00 a. m. Local time	1:00 p. m. Local time	Mean speed	Prevailing direction			Maximum speed and direction	Sunrise to sunset			Precipitation .01 inch or more	Snow, sleet 1.0 inch or more	Thunderstorms	Heavy fog
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest											Clear	Partly cloudy	Cloudy				
(a)				15	15		15	15	15	15	14	13		13	15	15	15	15	15	15	15	15
Jan.	12.9	-1.7	5.6	39	-39	1.25	0.78	11.6	78	77	10.1	E		42	6.2	9	6	16	11	4	0	3
Feb.	13.6	-2.2	5.7	47	-42	0.93	0.52	6.2	75	74	10.2	NE		49	5.4	12	3	13	9	2	0	1
Mar.	16.8	0.1	8.5	42	-38	0.81	0.65	8.8	78	75	9.1	E		50	6.0	10	5	16	10	3	0	1
Apr.	28.7	13.3	21.0	51	-27	0.78	0.56	7.5	80	77	9.1	E		52	6.4	8	6	16	10	2	0	1
May	40.5	26.9	33.7	68	-11	0.59	0.70	1.4	79	75	9.0	N		48	6.7	7	8	16	8	*	0	3
June	53.0	38.6	45.8	81	25	1.08	2.03	0.1	81	77	8.5	WSW		37	7.2	4	9	17	9	0	*	5
July	55.4	43.8	49.6	80	32	2.46	1.77	0.0	87	83	8.5	WSW		30	8.1	2	7	22	13	0	*	3
Aug.	55.0	43.2	49.1	73	30	3.76	2.38	T	88	82	9.1	SW		26	8.5	2	5	24	16	0	*	2
Sep.	48.1	35.9	42.0	63	17	2.93	1.26	0.6	85	76	10.1	N		29	7.8	4	5	21	14	*	0	*
Oct.	35.7	24.2	30.0	59	-3	1.70	2.28	3.1	81	74	9.6	N		34	7.0	6	6	19	9	2	0	*
Nov.	22.8	10.8	16.8	44	-39	1.14	0.49	10.7	82	81	11.1	N		28	7.3	5	5	20	13	3	0	1
Dec.	14.3	1.1	7.7	38	-41	1.16	1.09	8.5	76	76	8.9	E		33	6.2	10	4	17	9	3	0	2
Year	33.1	19.5	26.3	81	-42	18.69	2.38	60.5	81	77	9.5	N		38	6.9	79	69	217	131	20	*	23

KOTzebue, ALASKA (Federal Aviation Agency Airport), 86°52'N., 162°38'W.; Elevation (ground) 10 feet. WB-1961

Month	Air temperature (°F.)					Precipitation (inches)			Humidity (percent)		Wind (knots)		Percent of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days							
	Normal			Extreme		Normal total	Maximum in 24 hrs.	Snow, sleet, mean total	7:00 a. m. Local time	1:00 p. m. Local time	Mean speed	Prevailing direction			Maximum speed and direction	Sunrise to sunset			Precipitation .01 inch or more	Snow, sleet 1.0 inch or more	Thunderstorms	Heavy fog
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest											Clear	Partly cloudy	Cloudy				
(a)				19	19		19	18	18	18	17	18		18	18	18	18	18	11	18		
Jan.	0.6	-13.7	-6.6	39	-47	0.47	0.24	5.3	71	71	12.6	E		5.8	11	5	15	8	2	0	1	
Feb.	2.5	-11.9	-4.7	35	-48	0.32	0.68	4.6	72	73	11.9	E		5.3	11	4	13	8	1	0	1	
Mar.	6.6	-9.7	-1.6	38	-48	0.27	0.47	5.3	73	73	11.0	E		5.9	11	6	14	8	2	0	1	
Apr.	22.3	5.2	13.8	46	-44	0.36	0.29	4.1	79	77	11.2	ESE		5.8	10	7	13	7	2	0	1	
May	36.3	22.8	29.6	74	-18	0.33	0.47	1.0	84	80	9.0	W		6.5	7	9	15	7	*	0	4	
June	49.2	37.3	43.3	81	20	0.49	0.80	0.1	86	81	10.5	W		7.0	5	8	16	7	0	0	5	
July	58.5	46.7	52.6	85	34	1.53	1.78	T	86	78	11.2	W		7.7	3	7	21	11	0	*	3	
Aug.	55.8	45.6	50.7	78	31	1.95	1.48	T	88	80	11.6	W		8.3	2	5	24	15	0	*	1	
Sep.	45.6	36.1	40.9	63	17	0.94	0.94	1.0	88	77	11.2	E		7.6	5	5	20	13	*	0	1	
Oct.	30.2	20.7	25.5	51	-9	0.58	0.54	5.6	83	78	11.6	ENE		7.1	7	5	19	10	2	0	1	
Nov.	12.9	2.1	7.5	38	-36	0.43	0.26	7.5	77	76	12.4	E		6.7	7	5	18	10	3	0	1	
Dec.	3.3	-10.6	-3.7	36	-47	0.35	0.40	6.2	72	72	10.9	NE		6.0	10	5	16	9	2	0	1	
Year	27.0	14.2	20.6	85	-48	8.02	1.78	40.7	80	76	11.3	E		6.6	89	72	204	112	12	*	21	

BARROW, ALASKA (Airport Station), 71°18'N., 156°47'W.; Elevation (ground) 22 feet. WB-1961

Month	Air temperature (°F.)					Precipitation (inches)			Humidity (percent)		Wind (knots)		Percent of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days							
	Normal			Extreme		Normal total	Maximum in 24 hrs.	Snow, sleet, mean total	8:00 a. m. Local time	2:00 p. m. Local time	Mean speed	Prevailing direction			Maximum speed and direction	Sunrise to sunset			Precipitation .01 inch or more	Snow, sleet 1.0 inch or more	Thunderstorms	Heavy fog
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest											Clear	Partly cloudy	Cloudy				
(a)				41	41	40	41	17	17	32	12			20	27	27	27	41	17	41	20	
Jan.	- 8.5	-21.6	-15.1	33	-53	0.16	0.70	2.1	63	62	9.5	ESE		0	3	2	2	4	1	0	2	
Feb.	11.4	-24.3	-17.9	32	-56	0.15	0.36	2.2	62	61	9.8	ESE		5.3	12	6	10	4	*	0	1	
Mar.	- 7.8	-21.9	-14.9	30	-52	0.12	0.28	1.6	62	64	9.6	ESE		5.0	14	7	10	3	*	0	1	
Apr.	7.4	- 7.7	- 0.2	42	-42	0.10	0.37	1.8	72	73	10.0	NE		5.8	11	7	12	3	1	0	3	
May	24.4	13.2	18.8	45	-18	0.13	0.30	1.6	87	85	10.3	ESE		8.4	4	4	23	3	*	0	9	
June	38.9	28.9	33.9	70	8	0.28	0.82	0.4	93	90	9.9	E		8.0	5	5	20	4	*	*	13	
July	46.0	33.3	39.7	78	22	0.83	0.86	0.7	92	88	10.2	E		8.2	3	7	21	8	*	*	13	
Aug.	43.7	33.0	38.4	73	20	0.80	0.83	0.6	94	90	11.0	E		9.0	2	3	26	10	*	*	11	
Sep.	34.2	27.0	30.6	62	1	0.55	0.56	2.9	92	89	11.3	E		9.3	2	3	25	9	1	0	5	
Oct.	22.0	12.1	17.1	43	-19	0.52	1.00	6.9	85	84	11.9	E		8.8	2	4	25	10	2	0	4	
Nov.	6.6	- 5.3	0.7	39	-40	0.27	0.41	3.5	75	74	10.9	E		0	4	3	10	6	*	0	2	
Dec.	- 4.2	-16.6	-10.4	34	-55	0.20	0.26	2.7	65	65	10.0	ESE		0	0	0	0	5	*	0	2	
Year	15.9	4.2	10.1	78	-56	4.11	1.00	27.0	79	77	10.3	E		-	62	51	184	69	6	*	65	

BARTER ISLAND, ALASKA (Airport Station), 70°08'N., 143°38'W.; Elevation (ground) 39 feet. WB-1961

Month	Air temperature (°F.)					Precipitation (inches)			Humidity (percent)		Wind (knots)			Percent of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days						
	Normal			Extreme		Normal total	Maximum in 24 hrs.	Snow, sleet, mean total	8:00 a. m. Local time	2:00 p. m. Local time	Mean speed	Prevailing direction	Maximum speed and direction			Sunrise to sunset			Precipitation .01 inch or more	Snow, sleet 1.0 inch or more	Thunderstorms	Heavy fog
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest											Clear	Partly cloudy	Cloudy				
(a)				12	14		13	13	14	14	13	13			13	13	13	13	12	13	12	13
Jan.	- 8.4	-22.5	-15.5	37	-50	0.39	1.20	5.3	69	68	11.8	E			0	4	2	8	6	1	0	1
Feb.	-10.9	-25.0	-18.0	34	-59	0.35	1.22	3.3	66	67	12.9	W			5.1	10	7	11	5	1	0	1
Mar.	- 6.5	-22.1	-14.3	31	-50	0.26	0.44	2.3	66	67	11.3	W			5.9	8	10	13	6	1	0	2
Apr.	9.3	- 7.3	1.0	43	-37	0.19	0.27	2.2	73	74	10.7	W			6.4	7	8	15	7	*	0	3
May	26.3	14.1	20.2	48	-14	0.22	0.76	3.0	86	85	10.5	E			6.3	3	5	23	7	1	0	8
June	40.4	30.2	35.3	67	18	0.42	1.15	1.5	90	89	9.6	ESE			8.1	2	8	20	7	*	*	11
July	47.0	34.6	40.8	71	26	1.18	1.17	0.4	90	87	8.9	ESE			7.9	2	10	19	10	*	*	15
Aug.	44.4	34.0	39.2	72	24	1.18	1.11	1.5	92	89	10.4	E			8.5	1	8	22	11	1	0	15
Sep.	34.8	27.7	31.3	64	7	0.91	2.23	7.8	91	90	11.0	E			8.6	1	6	23	10	2	0	11
Oct.	22.4	12.3	17.4	43	-16	1.03	1.98	11.1	86	85	13.1	E			8.5	2	6	23	14	4	0	3
Nov.	6.6	- 5.7	0.5	37	-51	0.59	0.43	4.8	78	75	12.6	E			0	4	4	15	9	1	0	3
Dec.	- 4.4	-17.4	-10.9	30	-51	0.46	0.55	2.9	68	70	12.1	W			0	0	0	0	6	1	0	1
Year	16.8	4.4	10.6	72	-59	7.18	2.23	46.1	79	79	11.2	E			-	44	74	192	98	13	*	74

APPENDIX

DATES OF ICE BREAKUP AND FREEZUP

Place	Waters	Ice breakup			Ice freezup			Ave. years record	Period
		Average	Earliest	Latest	Average	Earliest	Latest		
Gulf of Alaska									
Susitna	Susitna River	May 1	4/12/41	5/10/46	Nov. 1	10/19/33	11/14/36	12	1933 - 1946
Talkeetna	do	May 8	4/12/41	5/25/52	Dec. 2	11/12/39	12/23/47	12	1918 - 1952
Kasilof	Kasilof River	Apr. 13	3/27/41	4/29/46	Dec. 3	11/13/45	12/24/48	10	1937 - 1947
Kenai	Kenai River	Apr. 2	3/18/52	4/14/51	Dec. 10	11/23/51	12/26/37	6	1937 - 1952
Anchorage	Ship Creek	Mar. 29	2/16/44	4/17/42	Nov. 24	11/10/36	12/10/36	21	1915 - 1953
Bering Sea									
Egegik	Egegik River	Apr. 14	3/16/41	5/ 1/39	Dec. 12	11/12/42	1/11/39	10	1937 - 1952
Naknek	Naknek River	Apr. 9	3/19/41	4/25/49	Nov. 17	10/17/39	12/15/17	7	1916 - 1951
Kogkong	Kvichak River	May 4	4/26/38	5/13/40	Dec. 22	11/23/39	1/30/41	3	1937 - 1940
Dillingham	Nushagak Bay	May 9	4/25/26	5/27/52	Nov. 7	10/16/32	12/22/40	19	1919 - 1952
Kanakanak	do	May 2	4/17/40	5/22/39	Nov. 20	10/14/42	12/21/38	4	1937 - 1943
Platinum	Goodnews Bay	May 1	4/ 8/42	5/25/52	Nov. 19	10/23/30	12/12/47	12	1928 - 1952
Kwinhagak	Kuskokwim Bay	May 1	4/10/45	5/17/46	Nov. 15	10/20/29	12/20/38	10	1929 - 1952
Bethel	Kuskokwim River	May 15	4/24/40	5/28/52	Oct. 29	10/ 8/28	11/24/51	27	1923 - 1952
Crooked Creek	do	May 7	4/22/40	5/23/52	Nov. 18	11/ 3/39	12/ 2/52	12	1937 - 1952
McGrath	do	May 10	4/24/40	5/24/52	Nov. 5	10/23/41	11/15/52	12	1939 - 1952
Mekoryuk Nunivak Island	Mekoryuk River	May 12	4/18/50	5/30/46	Nov. 27	11/20/52	12/13/47	5	1943 - 1951
Gambell, St. Lawrence Island	do	May 26	5/ 1/43	7/ 1/50	Nov. 21	10/15/49	12/14/40	10	1940 - 1952
Savoonga, St. Lawrence Island	do	May 26	4/25/48	6/17/45	Nov. 19	9/30/30	12/13/40	10	1928 - 1949
Hooper Bay	Hooper Bay	May 26	5/15/42	6/ 4/45	Nov. 12	10/19/28	11/20/41	4	1926 - 1945
St. Michael	Norton Sound	June 9	5/19/12	7/ 3/01	Nov. 10	10/10/64	12/ 7/81	53	1874 - 1952
Unalakleet	Unalakleet River	May 17	4/28/40	5/30/52	Oct. 25	10/ 8/39	11/19/37	14	1937 - 1952
Moses Point	Kwintuk River	May 24	5/ 2/51	6/11/49	Oct. 20	10/ 1/51	11/ 2/52	6	1943 - 1952
Golovin	Golovin Bay	May 23	5/13/40	6/14/39	Nov. 2	10/ 8/42	11/19/37	6	1937 - 1943
White Mountain	Fish River	May 21	5/ 5/40	6/ 2/37	Oct. 14	9/27/31	11/ 9/25	24	1923 - 1951
Solomon	Solomon River	May 20	5/ 1/42	5/30/45	Oct. 29	10/10/40	11/29/48	10	1940 - 1952
Council	Niukluk River	May 17	4/27/40	5/31/52	Oct. 30	10/13/20	11/ 9/40	12	1920 - 1952
Nome	Norton Sound	May 29	4/28/42	6/28/48	Nov. 12	10/13/18	12/13/47	50	1900 - 1952
Teller	Grantley Harbor	June 7	5/12/36	6/18/30	Nov. 10	10/13/42	12/26/50	16	1936 - 1952
Yukon River									
Akulurak	Kwikluak Pass	May 27	5/20/42	6/ 4/20	Oct. 24	10/11/39	11/ 7/23	14	1917 - 1948
Hamilton	22	May 22	5/ 6/40	6/ 5/52	Oct. 25	10/15/39	11/ 2/38	14	1938 - 1952
Azacharak	85	May 20	5/ 3/38	6/ 6/52	Nov. 13	11/ 1/39	12/22/49	12	1937 - 1952
Pilot Station	115	May 17	5/ 1/26	5/24/24	Nov. 8	10/27/24	11/13/25	5	1924 - 1943
Russian Mission	195	May 12	4/25/40	5/25/39	Nov. 4	10/21/28	11/15/37	8	1928 - 1944
Holy Cross	257	May 17	4/25/40	5/28/52	Oct. 31	10/12/31	11/30/34	32	1917 - 1952
Galena	481	May 17	5/ 8/51	5/26/52	Nov. 6	10/11/47	12/ 8/50	10	1943 - 1952
Ruby	526	May 15	4/30/40	5/22/20	Nov. 7	10/28/17	11/18/37	11	1917 - 1946
Tanana	628	May 14	4/29/40	5/25/35	Nov. 4	10/13/30	11/22/37	33	1917 - 1952
Ranpart	688	May 16	5/ 1/30	5/25/52	Nov. 6	10/13/30	11/23/45	21	1917 - 1952
Fort Yukon	896	May 14	5/ 7/40	5/22/27	Oct. 28	10/14/41	11/15/52	30	1918 - 1952
Coal Creek	1,002	May 12	5/ 7/43	5/18/45	Nov. 9	11/ 1/38	11/20/40	8	1938 - 1950
Engle	1,989	May 9	4/25/40	5/18/52	Nov. 19	10/18/30	12/11/49	29	1917 - 1952
Dawson, Canada	1,197	May 8	4/28/40	5/18/45	Nov. 17	11/ 3/41	12/19/42	12	1917 - 1947
Arctic Ocean									
Wales	Bering Strait	June 8	5/15/47	6/30/49	Dec. 3	10/ 8/48	1/ 8/51	16	1927 - 1952
Shishmaref	Arctic Ocean	June 22	5/30/36	7/ 8/33	Nov. 10	10/ 6/39	12/10/34	18	1921 - 1952
Candle	Kiwalik River	May 18	5/ 5/43	5/27/27	Oct. 17	10/10/42	10/23/43	8	1922 - 1950
Deering	Inmachuk River	June 4	5/11/43	6/30/41	Oct. 23	10/ 3/48	11/ 4/41	4	1937 - 1948
Kotzebue	Kotzebue Sound	May 31	5/17/40	6/ 8/45	Oct. 23	10/ 2/39	11/ 5/38	14	1929 - 1952
Selawik	Selawik River	May 28	5/13/40	6/ 7/45	Oct. 17	10/ 3/46	10/30/38	12	1927 - 1952
Noorvik	Kobuk River	May 29	5/18/25	6/11/22	Oct. 11	9/28/48	10/25/22	17	1918 - 1952
Kiana	do	May 18	5/ 7/40	5/29/39	Oct. 18	10/10/39	11/ 4/38	6	1938 - 1944
Kobuk	do	May 19	5/11/43	5/29/45	Oct. 21	10/ 9/39	11/ 2/38	12	1937 - 1952
Shungnak	do	May 21	5/12/41	5/29/45	Oct. 16	10/ 7/19	10/25/40	8	1919 - 1950
Kivalina	Kivalina River	May 22	5/15/43	5/27/49	Oct. 25	10/15/48	11/ 1/46	6	1943 - 1952
Point Hope	Arctic Ocean	June 20	5/30/27	7/ 8/48	Nov. 11	10/ 6/42	12/19/47	8	1927 - 1951
Point Lay	do	June 24	6/ 1/43	7/10/53	Nov. 4	10/12/43	11/27/48	4	1943 - 1953
Wainwright	do	June 29	6/ 7/44	7/26/48	Oct. 2	9/26/48	10/ 9/45	7	1939 - 1953
Point Barrow	do	July 22	6/15/44	8/22/31	Oct. 3	8/31/27	12/19/47	31	1920 - 1953

MEAN SURFACE WATER TEMPERATURES (T) AND SALINITIES (S) -- ALASKA

Station	Years	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Mean	
		(T) ° F	(S) ‰	(T) ° F	(S) ‰	(T) ° F	(S) ‰	(T) ° F	(S) ‰	(T) ° F	(S) ‰	(T) ° F	(S) ‰	(T) ° F	(S) ‰	(T) ° F	(S) ‰	(T) ° F	(S) ‰	(T) ° F	(S) ‰	(T) ° F	(S) ‰	(T) ° F	(S) ‰	(T) ° F	(S) ‰
Ketchikan	39	41.3	28.5	41.0	29.3	41.7	29.5	43.6	29.3	48.3	27.8	54.3	26.0	56.9	25.4	57.2	25.1	53.9	25.6	49.0	25.2	44.8	25.1	42.4	26.8	47.9	27.0
55°20'N., 131°38'W.																											
Sitka	19	40.4	30.2	39.7	30.7	39.9	30.3	42.5	29.8	47.8	26.7	52.3	25.1	56.1	24.8	57.1	25.5	53.8	25.6	48.7	27.2	44.7	28.1	42.2	29.1	47.1	27.8
57°03'N., 135°20'W.																											
Juneau	24	36.2	28.4	35.8	29.3	37.1	29.5	40.1	27.8	45.7	19.3	50.7	14.2	51.6	12.6	51.1	13.6	48.5	15.6	43.8	19.1	40.3	23.7	37.8	27.1	43.2	21.7
58°18'N., 134°25'W.																											
Haines	2	34.6	30.7	30.4	30.8	37.2	31.4	39.8	30.3	47.8	27.1	54.6	18.4	55.0	9.4	54.8	8.0	51.0	10.6	44.2	23.9	38.1	28.2	35.2	30.1	43.6	23.2
59°14'N., 135°26'W.																											
Skagway	17	36.6	31.0	36.1	31.4	36.3	31.4	38.0	31.1	44.9	22.5	50.7	9.9	51.1	5.4	50.0	4.8	48.0	11.2	43.7	21.4	39.9	27.7	37.8	29.8	42.8	21.5
59°27'N., 135°19'W.																											
Yakutat	21	39.0	29.8	38.4	30.2	39.0	30.1	41.9	29.4	46.6	28.1	51.7	26.1	55.3	23.5	55.4	23.4	52.4	25.4	47.7	27.5	43.8	28.8	40.4	29.7	46.0	27.7
59°33'N., 139°44'W.																											
Cordova	9	37.7	31.0	35.8	30.8	35.7	31.1	38.3	30.7	42.4	30.3	47.4	29.3	50.0	27.8	52.6	26.1	50.0	25.4	45.5	27.5	41.5	29.4	40.2	30.4	43.1	29.2
60°33'N., 145°46'W.																											
Seward	30	38.3	29.7	37.9	29.7	38.0	29.8	40.3	28.9	45.3	22.4	51.0	13.6	53.6	9.0	53.8	12.3	50.9	17.7	46.2	22.9	42.4	26.3	40.2	29.0	44.8	22.6
60°06'N., 149°27'W.																											
Kodiak	4	38.3	30.7	37.7	31.4	37.7	32.0	38.2	32.5	43.2	30.2	46.8	30.8	49.2	31.4	50.8	32.1	49.6	30.6	45.5	30.8	42.0	31.2	38.3	31.2	43.1	31.2
57°47'N., 152°24'W.																											
Womens Bay	12	32.6	28.2	33.2	28.6	34.0	30.3	38.6	29.7	43.9	22.7	48.1	18.3	52.9	20.6	53.5	25.2	50.1	26.0	43.7	27.2	38.1	26.4	34.1	29.0	41.9	26.0
57°43'N., 152°31'W.																											
Dutch Harbor	10	36.9	32.0	36.2	32.0	37.2	32.1	39.3	32.0	41.6	31.9	44.8	31.2	48.1	31.8	49.6	32.1	47.0	32.0	43.7	32.1	40.7	32.0	38.4	32.1	42.0	31.9
53°54'N., 166°32'W.																											
Unalaska	7	35.9	26.2	34.8	25.5	35.0	26.0	39.2	25.8	42.0	22.5	46.2	22.6	49.8	25.8	50.6	27.5	48.0	24.7	42.9	23.8	39.3	25.7	36.1	25.7	41.6	25.2
53°53'N., 166°32'W.																											
Sweeper Cove	18	36.8	30.8	36.8	30.4	37.6	29.5	38.9	28.0	41.1	28.6	43.8	30.6	45.9	31.1	46.8	31.4	46.2	31.0	43.2	31.0	40.2	31.0	37.9	31.0	41.3	30.4
51°51'N., 176°39'W.																											
Constantine Harbor	5	37.5	32.9	37.0	33.7	37.6	33.5	40.1	33.1	---	---	41.9	33.3	43.4	33.2	44.6	33.2	44.5	32.8	42.5	33.1	40.5	32.8	38.6	32.6	---	---
51°25'N., 179°17'E.																											
Massacre Bay	15	36.1	32.8	35.7	32.9	36.0	33.2	37.8	32.8	40.3	31.8	43.7	31.1	47.0	30.8	49.1	31.4	47.9	32.1	44.3	32.3	40.0	32.1	36.8	32.8	41.2	32.2
52°48'N., 173°10'E.																											
Port Moller	6	ice	ice	ice	ice	31.8	30.2	33.6	30.4	40.6	30.7	49.3	29.8	51.8	30.0	52.9	29.9	52.4	30.5	44.2	29.8	38.0	29.8	ice	ice	---	---
55°59'N., 160°34'W.																											

‰ -- This symbol denotes the salinity of sea water, and is defined as the number of grams of salts in 1,000 grams of sea water. For sea water temperature and salinity in greater detail, see Coast and Geodetic Survey Publication 31-3, Surface Water Temperature and Salinity, Pacific Coast, North and South America and Pacific Ocean Islands.

HOURS OF OPERATION OF FOG SIGNALS
(U. S. Coast Guard)

Light station	13 Calendar years - 1950 thru 1962														Pre - 1950		
	Average													Max. 1 yr.	Ave.	For yrs.	Max. 1 yr.
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year				
Tree Point 58°48.2'N., 130°55.9'W.	44	59	50	21	16	35	58	72	70	59	24	40	548	976	263	45	710
Mary Island 55°06.0'N., 131°10.8'W.	109	98	94	51	47	46	86	105	98	123	85	123	1065	2021	246	46	895
Guard Islands 55°26.8'N., 131°52.8'W.	98	89	73	37	34	19	45	70	84	99	86	87	821	2914	198	44	744
Lincoln Rock 56°03.5'N., 132°41.3'W.	142	93	116	54	38	31	48	92	142	158	144	127	1185	3006	187	45	651
Cape Decision 56°00.1'N., 134°08.1'W.	76	83	69	50	71	76	143	146	111	84	82	104	1095	2605	607	18	1150
Five Finger 57°16.3'N., 133°37.8'W.	82	65	45	14	13	19	29	39	39	32	47	56	480	1005	358	46	751
Point Retreat 58°24.7'N., 134°57.2'W.	105	103	96	37	10	10	36	40	41	36	55	111	680	1178	309	26	665
Sentinel Island 58°32.8'N., 134°55.3'W.	160	162	139	39	22	13	51	71	89	88	119	180	1133	2267	423	47	975
Eldred Rock 58°58.3'N., 135°13.2'W.	103	123	115	33	10	4	15	25	31	47	77	130	713	1099	443	43	916
Cape Spencer 58°11.9'N., 136°38.3'W.	97	101	99	49	44	100	176	136	93	60	85	95	1135	2312	671	23	1059
Cape St. Elias 59°47.8'N., 144°36.3'W.	90	85	70	76	73	62	89	95	89	65	75	87	956	1668	511	32	2103
Cape Hinchinbrook 60°14.3'N., 146°38.8'W.	65	73	85	46	37	56	94	90	55	42	42	72	757	1180	660	38	1521
Scotch Cap* 54°23.8'N., 164°44.6'W.	111	139	142	129	108	137	243	236	150	76	77	60	1608	2808	1085	20	1715
Cape Sarichef 54°36.0'N., 164°55.7'W.	31	41	39	51	49	122	198	192	58	21	18	30	850	1776	442	19	981

* 12 Calendar years - 1951 thru 1962

GULF OF ALASKA DISTANCES

October 3, 1964

Figure at intersection of columns opposite ports in question is the nautical mileage between the two. Example: Anchorage is 383 nautical miles from Valdez.

APPENDIX

GULF OF ALASKA DISTANCES

October 3, 1964

Figure at intersection of columns opposite ports in question is the nautical mileage between the two. Example: Anchorage is 383 nautical miles from Valdez.

500	SWIFTSURE BANK 48°31.0'N., 125°00.0'W.		DIXON ENTRANCE 54°28.0'N., 132°52.0'W.		CAPE DECISION 55°59.4'N., 134°08.1'W.		Sitka 57°03.1'N., 135°20.5'W.		CAPE SPENCER 58°10.0'N., 136°38.3'W.		Yakutat 59°32.9'N., 139°43.9'W.		Cordova 60°33.4'N., 145°45.3'W.		Valdez 61°06.7'N., 146°16.3'W.		Whittier 60°46.8'N., 148°39.6'W.		Latouche 60°03.3'N., 147°54.1'W.		Seward 60°06.0'N., 149°26.0'W.		Seldovia 59°26.5'N., 151°43.0'W.		Homer 59°36.0'N., 151°24.0'W.		Anchorage 61°14.2'N., 149°53.3'W.		Kodiak 57°47.1'N., 152°25.1'W.		Uyak 57°38.6'N., 154°00.0'W.		Chignik 56°17.8'N., 158°24.0'W.		Unga 55°10.6'N., 160°29.8'W.		False Pass 54°51.4'N., 163°24.0'W.		UNIMAK PASS 54°20.0'N., 164°45.0'W.				
588	106																																										
681	192	95																																									
739	259	162	85																																								
869	402	295	231	141																																							
1087	621	527	465	387	274																																						
1100	634	539	478	400	287	77																																					
1107	642	547	485	407	295	99	92																																				
1076	617	527	467	395	286	86	84	64																																			
1100	642	553	494	422	312	147	145	125	61																																		
1167	718	636	580	514	411	258	256	236	172	147																																	
1178	729	647	591	525	422	269	267	247	183	158	16																																
1294	845	763	708	641	538	385	383	363	300	274	139	143																															
1124	687	613	564	505	414	287	285	265	201	175	115	126	242																														
1200	762	689	628	571	480	340	337	317	254	228	138	149	264	80																													
1301	874	811	772	717	636	503	501	481	418	392	302	313	428	245	180																												
1394	953	892	865	811	730	597	595	574	511	485	395	406	521	338	273	122																											
1478	1084	1016	980	926	844	711	709	689	626	600	510	521	636	453	388	236	135																										
1510	1120	1064	1027	987	897	763	761	742	678	652	562	573	688	505	440	289	187	86																									

Radio Bearing Conversion Table

Table of corrections, in minutes

[DIFFERENCE OF LONGITUDE IN DEGREES]

Mid. L.	½°	1°	1½°	2°	2½°	3°	3½°	4°	4½°	5°	5½°	6°	6½°	7°	7½°	8°	8½°	9°	9½°	10°
15°	4	8	12	16	19	23	27	31	35	40	43	47	50	54	58	62	66	70	74	78
16°	4	8	12	17	21	25	29	33	37	41	45	50	54	58	62	66	70	74	79	83
17°	4	9	13	18	22	26	31	35	39	44	48	53	57	61	66	70	75	79	83	88
18°	5	9	13	19	23	28	32	37	42	46	51	56	60	65	70	74	79	83	88	93
19°	5	10	15	20	24	29	34	39	44	49	54	59	63	68	73	78	83	88	93	98
20°	5	10	15	21	26	31	36	41	46	51	56	62	67	72	77	82	87	92	98	103
21°	5	11	16	21	27	32	38	43	48	54	59	64	70	75	81	86	91	97	102	108
22°	6	11	17	22	28	34	39	45	51	56	62	67	73	79	84	90	96	101	107	112
23°	6	12	18	23	29	35	41	47	53	59	64	70	76	82	88	94	100	105	111	117
24°	6	12	18	24	31	37	43	49	55	61	67	73	79	85	92	98	104	110	116	122
25°	6	13	19	25	32	38	44	51	57	63	70	76	82	89	95	101	108	114	120	127
26°	7	13	20	26	33	39	46	53	59	66	72	79	85	92	99	105	112	118	125	131
27°	7	14	20	27	34	41	48	54	61	68	75	82	89	95	102	109	116	123	129	136
28°	7	14	21	28	35	42	49	56	63	70	77	84	92	99	106	113	120	127	134	141
29°	7	15	21	29	36	44	51	58	65	73	80	87	95	102	109	116	124	131	138	145
30°	7	15	22	30	38	45	53	60	68	75	83	90	98	105	113	120	127	135	143	150
31°	8	15	23	31	39	46	54	62	70	77	85	93	100	108	116	124	131	139	146	155
32°	8	16	24	32	40	48	56	64	72	79	87	95	103	111	119	127	135	143	151	159
33°	8	16	25	33	41	49	57	65	74	82	90	98	106	114	123	131	139	147	155	163
34°	8	17	25	34	42	50	59	67	75	84	92	101	109	117	126	134	143	151	159	168
35°	9	17	26	34	43	52	60	69	77	86	95	103	112	120	129	138	146	155	163	172
36°	9	18	26	35	44	53	62	71	79	88	97	106	115	123	132	141	150	159	168	176
37°	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	144	153	163	172	181
38°	9	18	28	37	46	55	65	74	83	92	102	111	120	129	139	148	157	166	175	185
39°	9	19	28	38	47	57	66	75	85	94	104	113	123	132	142	151	160	170	179	189
40°	10	19	29	39	48	58	68	77	87	96	106	116	125	135	145	154	164	174	183	193
41°	10	20	30	39	49	59	69	79	89	98	108	118	128	138	148	157	167	177	187	197
42°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	151	161	171	181	191	201
43°	10	20	31	41	51	61	72	82	92	102	113	123	133	143	153	164	174	184	194	205
44°	10	21	31	42	52	63	73	83	94	104	115	125	135	146	156	167	177	188	198	208
45°	11	21	32	42	53	64	74	85	95	106	117	127	138	149	159	170	180	191	201	212
46°	11	22	32	43	54	65	76	86	97	108	119	129	140	151	162	173	183	194	205	216
47°	11	22	33	44	55	66	77	88	99	110	121	132	143	154	165	176	186	197	208	219
48°	11	22	33	45	56	67	78	89	100	111	123	134	145	156	167	178	189	200	212	223
49°	11	23	34	45	57	68	79	91	102	113	125	136	147	158	170	181	192	204	215	226
50°	11	23	34	46	57	69	80	92	103	115	126	138	149	161	172	184	195	207	218	230
51°	12	23	35	47	68	70	82	93	105	117	128	140	152	163	175	186	198	210	221	233
52°	12	24	35	47	69	71	83	95	106	118	130	142	154	165	177	189	201	213	225	236
53°	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
54°	12	24	36	49	61	73	85	97	109	121	133	146	158	170	182	194	206	218	231	243
55°	12	25	37	49	61	74	86	98	111	123	135	147	160	172	184	197	209	221	233	246
56°	12	25	37	50	62	75	87	100	112	124	137	149	162	174	187	199	211	224	236	249
57°	13	25	38	50	63	75	88	101	113	126	138	151	164	176	189	201	214	226	239	252
58°	13	25	38	51	64	76	89	102	115	127	140	153	165	178	191	204	216	229	242	254
59°	13	26	39	51	64	77	90	103	116	129	141	154	167	180	193	206	219	231	244	257
60°	13	26	39	52	65	78	91	104	117	130	143	156	169	182	195	208	221	234	247	260

Example. A ship in latitude 39°51' N., longitude 67°35' W., by dead reckoning, obtains a radio bearing of 299° true on the radiobeacon located in latitude 40°37' N., longitude 69°37' W.

Radiobeacon station.....	Latitude	40°37' N.
Dead-reckoning position of ship.....	Latitude	39°51'
Middle latitude.....		40°14'
Radiobeacon station.....	Longitude	69°37' W.
Dead reckoning position of ship.....	Longitude	67°35'
Longitude difference.....		2°02'

Entering the table with difference of longitude equals 2°, which is the nearest tabulated value and opposite 40° middle latitude, the correction of 39' is read.

As the ship is east of the radiobeacon, a minus correction is applied. The Mercator bearing then will be 299°—000°39'=298°21'. To facilitate plotting, subtract 180° and plot from the position of the radiobeacon the bearing 298°21'—180°, or 118°21' (Mercator bearing reckoned clockwise from true north).

Distance of Visibility of Objects at Sea

The following table gives the approximate geographic range of visibility for an object which may be seen by an observer whose eye is at sea level; in practice, therefore, it is necessary to add to these a distance of visibility corresponding to the height of the observer's eye above sea level.

Height, feet	Nautical miles	Height, feet	Nautical miles	Height, feet	Nautical miles	Height, feet	Nautical miles	Height, feet	Nautical miles
6	2.8	48	7.9	220	17.0	660	29.4	2,000	51.2
8	3.1	50	8.1	240	17.7	680	29.9	2,200	53.8
10	3.6	55	8.5	260	18.5	700	30.3	2,400	56.2
12	4.0	60	8.9	280	19.2	720	30.7	2,600	58.5
14	4.3	65	9.2	300	19.9	740	31.1	2,800	60.6
15	4.4	70	9.6	320	20.5	760	31.6	3,000	62.8
16	4.6	75	9.9	340	21.1	780	32.0	3,200	64.9
18	4.9	80	10.3	360	21.7	800	32.4	3,400	66.9
20	5.1	85	10.6	380	22.3	820	32.8	3,600	68.6
22	5.4	90	10.9	400	22.9	840	33.2	3,800	70.7
24	5.6	95	11.2	420	23.5	860	33.6	4,000	72.5
26	5.8	100	11.5	440	24.1	880	34.0	4,200	74.3
28	6.1	110	12.0	460	24.6	900	34.4	4,400	76.1
30	6.3	120	12.6	480	25.1	920	34.7	4,600	77.7
32	6.5	130	13.1	500	25.6	940	35.2	4,800	79.4
34	6.7	140	13.6	520	26.1	960	35.5	5,000	81.0
36	6.9	150	14.1	540	26.7	980	35.9	6,000	88.8
38	7.0	160	14.5	560	27.1	1,000	36.2	7,000	96.0
40	7.2	170	14.9	580	27.6	1,200	39.6	8,000	102.6
42	7.4	180	15.4	600	28.0	1,400	42.9	9,000	108.7
44	7.6	190	15.8	620	28.6	1,600	45.8	10,000	114.6
46	7.8	200	16.2	640	29.0	1,800	48.6		

Conversion Table, Degrees to Points and Vice Versa

° /	Points	° /	Points	° /	Points	° /	Points
0 00	N	90 00	E	180 00	S	270 00	W
2 49		92 49		182 49		272 49	
5 38	N ½ E	95 38	E ½ S	185 38	S ½ W	275 38	W ½ N
8 26		98 26		188 26		278 26	
11 15	N x E	101 15	E x S	191 15	S x W	281 15	W x N
14 04		104 04		194 04		284 04	
16 53	N x E ½ E	106 53	ESE ½ E	196 53	S x W ½ W	286 53	WNW ½ W
19 41		109 41		199 41		289 41	
22 30	NNE	112 30	ESE	202 30	SSW	292 30	WNW
25 19		115 19		205 19		295 19	
28 08	NNE ½ E	118 08	SE x E ½ E	208 08	SSW ½ W	298 08	NW x W ½ W
30 56		120 56		210 56		300 56	
33 45	NE x N	123 45	SE x E	213 45	SW x S	303 45	NW x W
36 34		126 34		216 34		306 34	
39 23	NE ½ N	129 23	SE ½ E	219 23	SW ½ S	309 23	NW ½ W
42 11		132 11		222 11		312 11	
45 00	NE	135 00	SE	225 00	SW	315 00	NW
47 49		137 49		227 49		317 49	
50 38	NE ½ E	140 38	SE ½ S	230 38	SW ½ W	320 38	NW ½ N
53 26		143 26		233 26		323 26	
56 15	NE x E	146 15	SE x S	236 15	SW x W	326 15	NW x N
59 04		149 04		239 04		329 04	
61 53	NE x E ½ E	151 53	SSE ½ E	241 53	SW x W ½ W	331 53	NNW ½ W
64 41		154 41		244 41		334 41	
67 30	ENE	157 30	SSE	247 30	WSW	337 30	NNW
70 19		160 19		250 19		340 19	
73 08	ENE ½ E	163 08	S x E ½ E	253 08	WSW ½ W	343 08	N x W ½ W
75 56		165 56		255 56		345 56	
78 45	E x N	168 45	S x E	258 45	W x S	348 45	N x W
81 34		171 34		261 34		351 34	
84 23	E ½ N	174 23	S ½ E	264 23	W ½ S	354 23	N ½ W
87 11		177 11		267 11		357 11	

BEAUFORT SCALE OF WIND FORCE

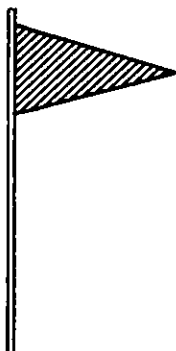
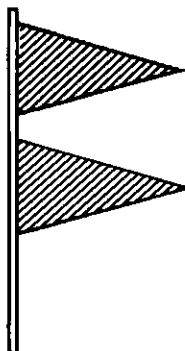
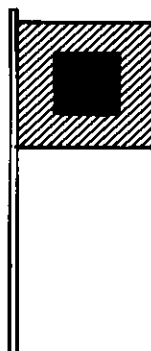
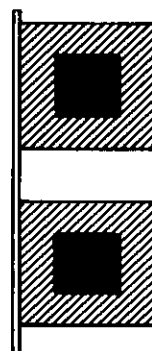
Beaufort Number	Miles per Hour	Knots	Wind Effects Observed at Sea	Terms Used In U. S. W. B. Forecasts
0	Less than 1	Less than 1	Sea like a mirror	Light
1	1- 3	1- 3	Ripples with the appearance of scales formed, but without foam crests	
2	4- 7	4- 6	Small wavelets, short but pronounced; crests appear glassy, do not break	
3	8-12	7-10	Large wavelets with crests beginning to break; foam appears glassy. Perhaps scattered white horses (white foam crests).	Gentle
4	13-18	11-16	Small waves, becoming longer; fairly frequent white horses	Moderate
5	19-24	17-21	Moderate waves of a pronounced long form; many white horses, possibly some spray.	Fresh
6	25-31	22-27	Large waves begin to form; white foam crests more extensive everywhere; probably some spray.	Strong
7	32-38	28-33	Sea heaps up; some white foam from breaking waves blows in streaks along the direction of the wind.	
8	39-46	34-40	Moderately high waves. Edges of crests begin to break into spindrift. Well-marked streaks of foam blow along direction of wind.	Gale
9	47-54	41-47	High waves. Dense streaks of foam along direction of wind. Spray may affect visibility.	
10	55-63	48-55	Very high waves with long overhanging crests; great patches of foam blown in dense white streaks along direction of wind. Sea surface takes on a white appearance. Visibility affected.	Whole gale
11	64-72	56-63	Exceptionally high waves; sea completely covered with long white patches of foam lying along direction of wind; edges of wave crests everywhere blown into froth. Visibility affected.	
12 or more	73 or more	64 or more	Air filled with foam and spray; sea completely white with driving spray. Visibility very seriously affected.	Hurricane

APPENDIX

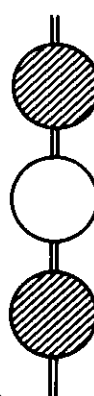


SMALL CRAFT, GALE, WHOLE GALE AND HURRICANE WARNINGS

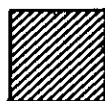
DAYTIME SIGNALS

SMALL CRAFT**GALE****WHOLE GALE****HURRICANE**

NIGHT SIGNALS

SMALL CRAFT**GALE****WHOLE GALE****HURRICANE**

LEGEND:

**-RED****-WHITE****-BLACK**

EXPLANATION OF DISPLAY SIGNALS

SMALL CRAFT WARNING: One red pennant displayed by day and a red light above a white light at night to indicate winds up to 33 knots and/or sea conditions dangerous to small craft operations are forecast for the area.

GALE WARNING: Two red pennants displayed by day and a white light above a red light at night to indicate winds ranging from 34 to 47 knots are forecast for the area.

WHOLE GALE WARNING: A single square red flag with a black center displayed during daytime and two red lights at night to indicate winds ranging from 48 to 63 knots are forecast for the area.

HURRICANE WARNING: Two square red flags with black centers displayed by day and a white light between two red lights at night to indicate that winds 64 knots and above are forecast for the area.

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Number in parentheses immediately following any item in this Index is number of the largest scale United States Coast and Geodetic Survey chart on which that feature appears.

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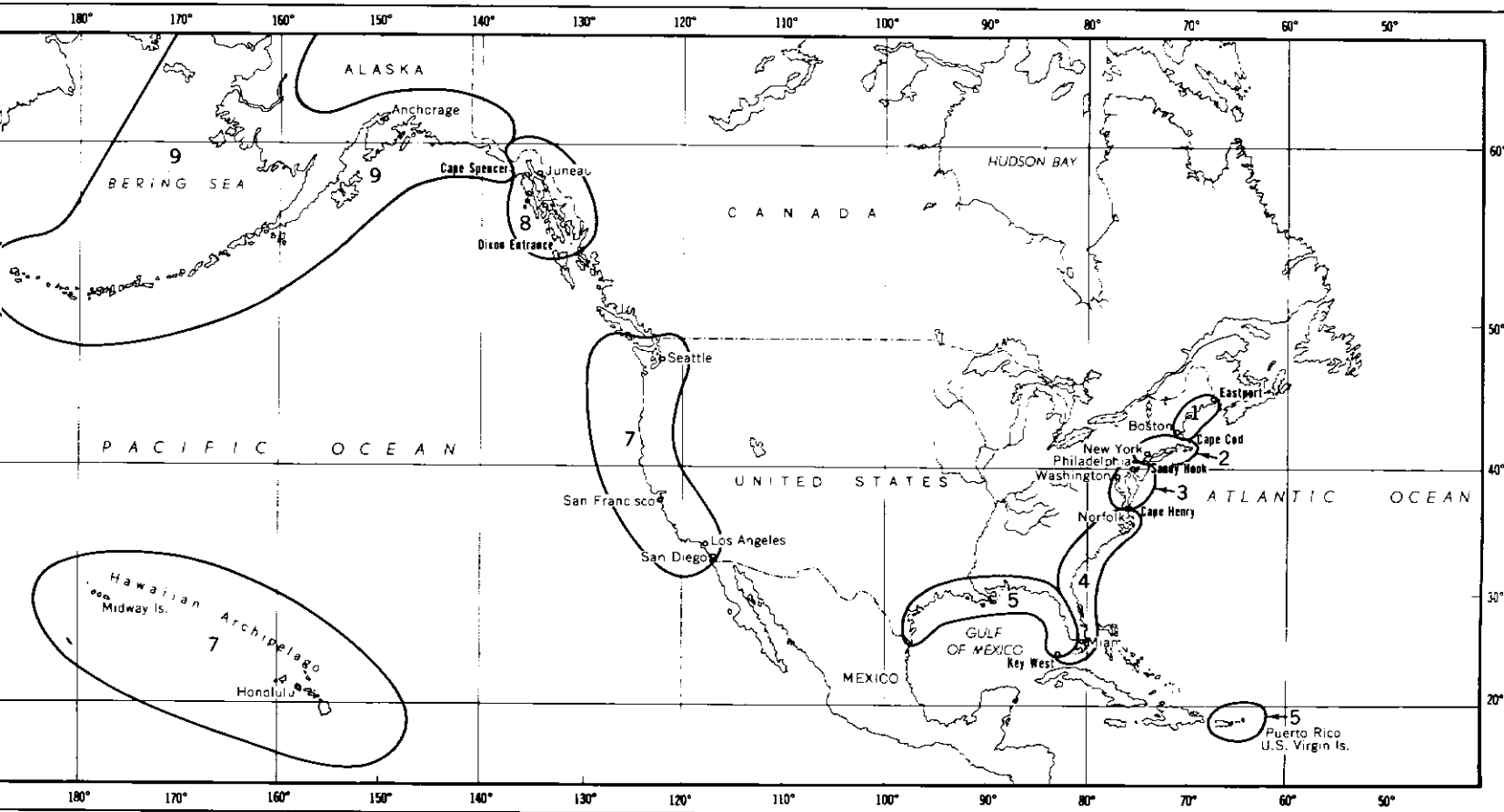
LIMITS OF UNITED STATES COAST PILOTS

Atlantic Coast

- 1 Eastport to Cape Cod
- 2 Cape Cod to Sandy Hook
- 3 Sandy Hook to Cape Henry
- 4 Cape Henry to Key West
- 5 Gulf of Mexico, Puerto Rico, and Virgin Islands

Pacific Coast

- 7 California, Oregon, Washington, and Hawaii
- 8 Alaska - Dixon Entrance to Cape Spencer
- 9 Alaska - Cape Spencer to Beaufort Sea



Map of the North Pacific Ocean showing the coastline of Alaska and the United States. The map includes latitude and longitude lines, major cities, and various chart numbers. Key locations include Anchorage, Seward, Kodiak, Sitka, Yakutat Bay, Skagway, Ketchikan, Seattle, Portland, San Francisco, Los Angeles, and San Diego. The Hawaiian Archipelago is shown in the lower left. The map is labeled "NORTH PACIFIC OCEAN" and "UNITED STATES". It also includes references to other diagrams for large scale charts.

SAILING AND GENERAL CHARTS—PACIFIC COAST

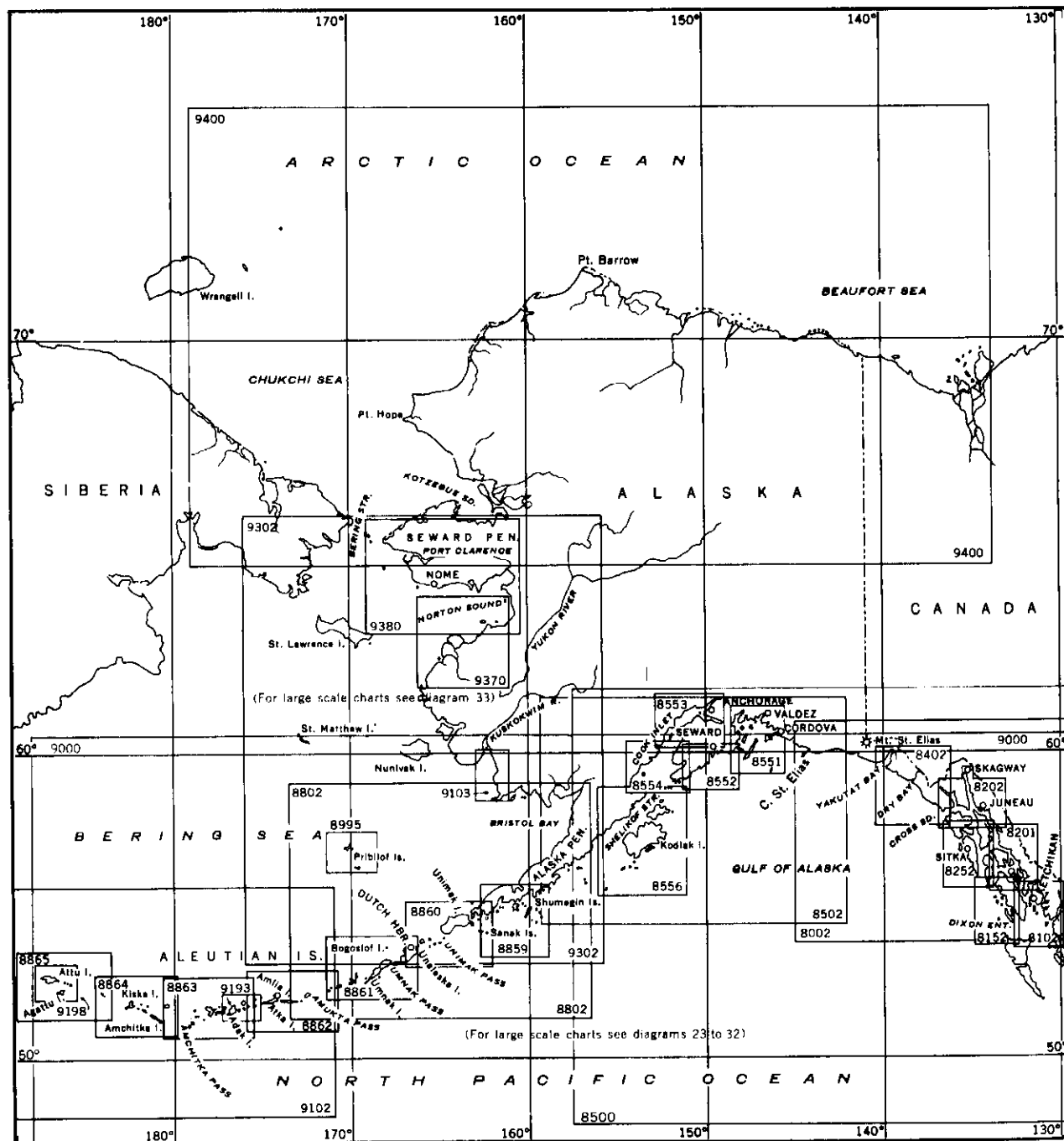
No.	Price	TITLE	State	Scale	Paper size (inches)
SAILING CHARTS					
†5002	\$1.00	San Diego to Point St. George		1:1,412,349	34X43
†5020	1.00	San Diego to San Francisco Bay		1:868,008	36X44
†5021	1.00	Monterey Bay to Coos Bay		1:811,980	33X45
†5022	1.00	Cape Blanco to Cape Flattery		1:736,560	33X42
†5052	1.00	San Francisco to Cape Flattery		1:1,200,000	35X43
†8002	.75	Dixon Entrance to Cape St. Elias		1:969,756	33X42
†8500	1.00	Gulf of Alaska—Strait of Juan de Fuca to Kodiak Island		1:2,100,000	33X44
†8502	1.00	Cape St. Elias to Shumagin Islands		1:969,761	35X44
†8802	1.00	Alaska Peninsula and Aleutian Islands to Segum Pass		1:1,023,188	36X43
†9000	1.00	San Diego to Aleutian Islands and Hawaiian Archipelago		1:4,860,700	36X44
†9302	.75	Bering Sea—eastern part		1:1,534,076	31X40
GENERAL CHARTS					
5101	1.00	San Diego to Santa Rosa Island	California	1:234,270	35X50
†5202	1.00	Point Dume to Purisima Point	"	1:232,188	33X48
5302	1.00	Point Conception to Point Sur	"	1:216,116	33X46
†5402	1.00	Point Sur to San Francisco	"	1:210,668	33X42
†5502	1.00	San Francisco to Point Arena	"	1:207,840	34X42
†5602	1.00	Point Arena to Trinidad Head	"	1:200,000	33X48
†5702	1.00	Trinidad Head to Cape Blanco	Calif. & Oregon	1:196,948	33X43
†5802	1.00	Cape Blanco to Yaquina Head	Oregon	1:191,730	33X48
†5902	1.00	Yaquina Head to Columbia River	Oreg. & Wash.	1:185,238	33X44
†6002	1.00	Columbia River to Destruction Island	"	1:180,789	35X42
†6102	1.00	Approaches to Strait of Juan de Fuca—Destruction Island to Amphitrite Point	Wash. & B.C.	1:176,253	35X44
6300	1.00	Strait of Georgia and Strait of Juan de Fuca	"	1:200,000	31X44
6401	.75	Admiralty Inlet and Puget Sound	Washington	1:150,000	32X41
8102	1.00	Hecate Str. to Etolin I., including Behm & Portland Canals	Alaska	1:229,376	34X43
8152	1.00	Dixon Entrance to Chatham Strait	"	1:229,376	33X45
8201	1.00	Etolin Island to Midway Islands, including Sumner Strait	"	1:217,828	34X45
8202	1.00	Midway Islands to Cape Spencer, including Lynn Canal	"	1:209,978	34X45
8252	1.00	Coronation Island to Lisianski Strait	"	1:217,828	35X45
8402	.75	Cross Sound to Yakutat Bay	"	1:300,000	33X42
8551	1.00	Prince William Sound	"	1:200,000	36X46
8552	.75	Point Elrington to East Chugach Island	"	1:200,000	31X39
8553	1.00	Cook Inlet—northern part	"	1:194,154	35X44
8554	1.00	Cook Inlet—southern part	"	1:200,000	34X42
8556	1.00	Kodiak Island	"	1:350,000	35X46
8859	1.00	Shumagin Islands to Sanak Islands	"	1:300,000	35X42
8860	1.00	Unimak and Akutan Passes and approaches	"	1:300,000	35X44
8861	1.00	Unalaska I. to Amukta I.	"	1:300,000	36X48

* H.O. 0903 For sale by the U.S. Naval Oceanographic Office, Washington 25, D.C., and its sales agents.

† Includes Loran Lines of Position

March 1962

SAILING AND GENERAL CHARTS - ALASKA

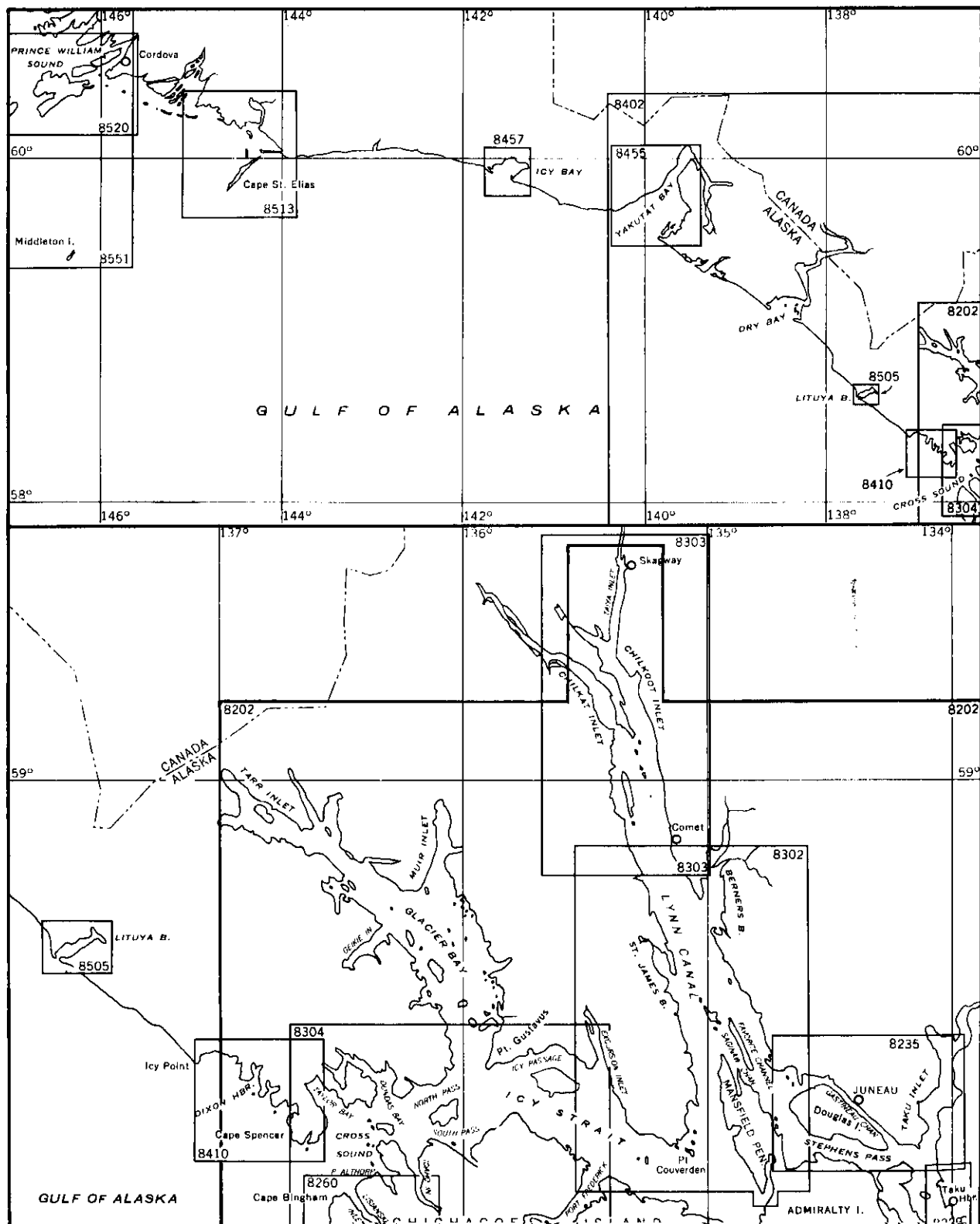


SAILING AND GENERAL CHARTS—ALASKA

No.	Price	TITLE	Scale	Paper size (inches)
SAILING CHARTS				
†8002	\$0.75	Dixon Entrance to Cape St. Elias	1:969,756	33X42
†8500	1.00	Gulf of Alaska—Strait of Juan de Fuca to Kodiak Island	1:2,100,000	33X44
†8502	1.00	Cape St. Elias to Shumagin Islands	1:969,761	35X44
†8802	1.00	Alaska Peninsula and Aleutian Islands to Seguam Pass	1:1,023,188	36X43
†9000	1.00	San Diego to Aleutian Islands and Hawaiian Archipelago	1:4,860,700	36X44
†9102	1.00	Aleutian Islands—Amukta Island to Attu Island	1:1,126,321	35X48
†9302	.75	Bering Sea—eastern part	1:1,534,076	31X40
9400	.75	Arctic Coast	1:1,587,870	28X45
GENERAL CHARTS				
8102	1.00	Hecate Strait to Etolin Island, including Behm and Portland Canals	1:229,376	34X43
8152	1.00	Dixon Entrance to Chatham Strait	1:229,376	33X45
8201	1.00	Etolin Island to Midway Islands, including Sumner Strait	1:217,828	34X45
8202	1.00	Stephens Passage to Cross Sound, including Lynn Canal	1:209,978	34X45
8252	1.00	Coronation Island to Lisianski Strait	1:217,828	35X45
8402	.75	Cross Sound to Yakutat Bay	1:300,000	33X42
8551	1.00	Prince William Sound	1:200,000	36X46
8552	.75	Point Elrington to East Chugach Island	1:200,000	31X39
8553	1.00	Cook Inlet—northern part	1:194,154	35X44
8554	1.00	Cook Inlet—southern part	1:200,000	34X42
8556	1.00	Kodiak Island	1:350,000	35X46
8859	1.00	Shumagin Islands to Sanak Islands	1:300,000	35X42
8860	1.00	Unimak and Akutan Passes and approaches	1:300,000	35X44
8861	1.00	Unalaska I. to Amukta I.	1:300,000	36X48
8862	1.00	Amukta Island to Igitkin I.	1:300,000	36X47
8863	1.00	Igitkin I. to Semisopochnoi I.	1:300,000	36X48
8864	1.00	Rat Islands—Semisopochnoi I. to Buldir I.	1:300,000	36X42
8865	1.00	Near Islands—Buldir I. to Attu I.	1:300,000	36X48
8995	.75	Pribilof Islands	1:200,000	32X38
9103	.50	Kuskokwim Bay	1:200,000	25X39
9193	1.00	Andreanof Islands—Atka Pass to Adak Strait	1:120,000	34X48
9198	1.00	Near Islands—Ingenstrem Rocks to Attu Island	1:160,000	33X45
9370	.75	Cape Romanzof to St. Michael	1:300,000	35X38
9380	1.00	Norton Sound	1:400,000	35X42

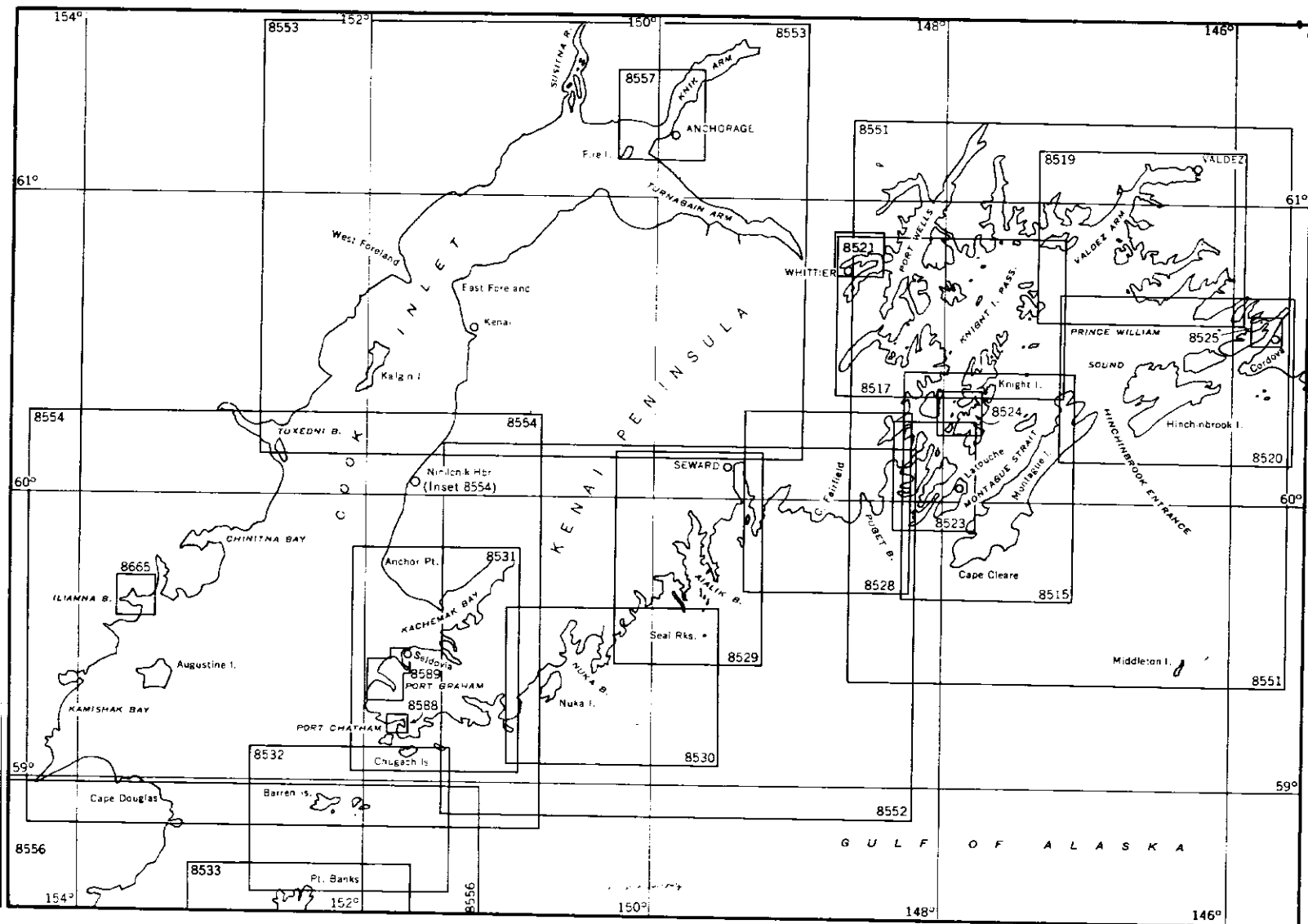
†Includes Loran Lines of Position

**GENERAL, COAST AND HARBOR CHARTS - ALASKA
LYNN CANAL TO PRINCE WILLIAM SOUND**



**GENERAL, COAST AND HARBOR CHARTS—ALASKA
LYNN CANAL TO PRINCE WILLIAM SOUND**

No.	Price	TITLE	Scale	Paper size (inches)
GENERAL CHARTS				
8202	\$1.00	Midway Islands to Cape Spencer, including Lynn Canal	1:209,978	34×45
8402	.75	Cross Sound to Yakutat Bay	1:300,000	33×42
8551	1.00	Prince William Sound	1:200,000	36×46
COAST CHARTS				
8302	.75	Lynn Canal—Icy Strait to Point Sherman	1:80,000	30×46
		Funter Bay	1:20,000	
		Hawk Inlet, Chatham Strait	1:40,000	
8303	.75	Lynn Canal—Point Sherman to Skagway	1:80,000	29×44
		Portage Cove, Chilkoot Inlet	1:10,000	
		Skagway and Nahku Bay	1:10,000	
8304	.75	Icy Strait and Cross Sound	1:80,000	33×42
		Inian Cove	1:20,000	
		Elfin Cove	1:10,000	
8455	.75	Yakutat Bay	1:80,000	30×34
		Yakutat Harbor	1:10,000	
8513	.75	Controller Bay	1:100,000	31×34
8520	1.00	Prince William Sound—eastern entrance	1:80,000	34×45
HARBOR CHARTS				
8229	.50	Slocum and Limestone Inlets and Taku Harbor	1:20,000	23×33
8235	1.00	Gastineau Channel and Taku Inlet	1:40,000	36×48
		Juneau Harbor	1:10,000	
8410	.75	Cape Spencer to Icy Point	1:40,000	33×41
8457	.75	Icy Bay	1:40,000	29×33
8505	.50	Lituya Bay	1:20,000	27×36
		Lituya Bay Entrance	1:10,000	



GENERAL, COAST AND HARBOR CHARTS - ALASKA
PRINCE WILLIAM SOUND TO COOK INLET

**GENERAL, COAST AND HARBOR CHARTS—ALASKA
PRINCE WILLIAM SOUND TO COOK INLET**

No.	Price	TITLE	Scale	Paper size (inches)
GENERAL CHARTS				
8551	\$1.00	Prince William Sound	1:200,000	36X46
8552	.75	Point Elrington to East Chugach Island	1:200,000	31X39
8553	1.00	Cook Inlet—northern part	1:194,154	35X44
8554	1.00	Cook Inlet—southern part Ninilchik Harbor	1:200,000 1:5,000	34X42
COAST CHARTS				
8515	1.00	Prince William Sound—western entrance	1:81,436	35X44
8517	1.00	Prince William Sound—western part	1:80,000	33X47
3519	1.00	Prince William Sound—Port Fidalgo and Valdez Arm Valdez	1:79,291 1:7,000	36X41
8520	1.00	Prince William Sound—eastern entrance	1:80,000	34X45
8521	.75	Passage Canal including Port of Whittier Port of Whittier	1:20,000 1:10,000	32X34
8528	.75	Point Elrington to Cape Resurrection	1:81,436	35X37
8529	.75	Cape Resurrection to Two Arm Bay Seward	1:81,847 1:10,000	30X39
8530	.75	Seal Rocks to Gore Point	1:83,074	32X43
8531	1.00	Gore Point to Anchor Point	1:82,662	34X45
8532	.75	Barren Islands	1:77,062	35X44
HARBOR CHARTS				
8523	1.00	Latouche, Elrington and Prince of Wales Passages	1:40,000	35X42
8524	.75	Drier Bay, Prince William Sound	1:20,000	34X36
8525	.25	Orca Bay and Inlet—Channel Islands to Cordova	1:30,000	18X21
8557	.75	Knik Arm—Fire Island to Goose Creek Anchorage	1:40,000 1:10,000	34X34
8588	.75	Port Chatham, Cook Inlet	1:10,000	30X34
8589	.75	Port Graham and Seldovia Bay, Cook Inlet	1:20,000	28X39
8665	.75	Iliamna Bay, Cook Inlet	1:20,000	34X35

[illegible]

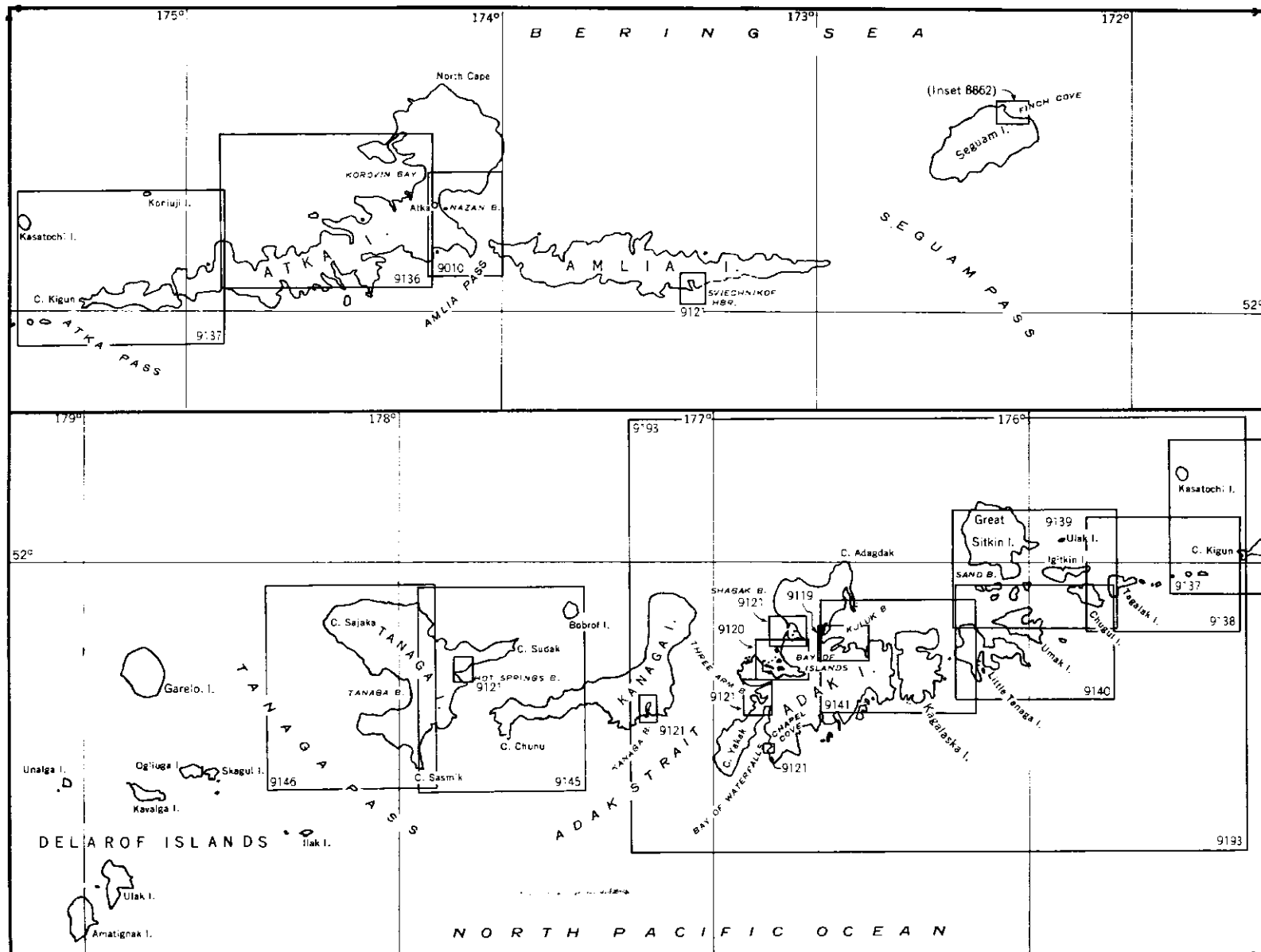
**GENERAL, COAST AND HARBOR CHARTS—ALASKA
KODIAK ISLAND TO ATTU ISLAND**

No.	Price	TITLE	Scale	Paper size (inches)
GENERAL CHARTS				
8556	\$1.00	Kodiak Island	1:350,000	35X46
8851	.75	Harbors and Anchorages, southwestern Alaska (see Harbor Charts below)		32X45
		Semidi Islands, Chirikof Island and Lighthouse Rocks	1:400,000	
8859	1.00	Shumagin Islands to Sanak Islands	1:300,000	35X42
8860	1.00	Unimak and Akutan Passes and approaches	1:300,000	35X44
		Amak Island	1:80,000	
8861	1.00	Unalaska I. Amukta I.	1:300,000	36X48
8862	1.00	Amukta I. to Igitkin I.	1:300,000	36X47
8863	1.00	Igitkin I. to Semisopochnoi I.	1:300,000	36X48
8864	1.00	Rat Islands—Semisopochnoi I. to Buldir I.	1:300,000	36X42
8865	1.00	Near Islands—Buldir I. to Attu I.	1:300,000	36X48
9193	1.00	Andreanof Islands—Atka Pass to Adak Strait	1:120,000	34X48
9198	1.00	Near Islands—Ingenstrem Rocks to Attu Island	1:160,000	33X45
COAST CHARTS				
8532	.75	Barren Islands	1:77,062	35X44
8533	1.00	Shuyak and Afognak Islands and adjacent waters	1:78,000	36X48
8534	1.00	Marmot Bay and Kupreanof Strait, Kodiak and Afognak Islands	1:78,900	36X46
8535	.75	Chiniak Bay to Dangerous Cape, Kodiak Island	1:80,000	30X37
8536	1.00	Gull Point to Kaguyak Bay, Kodiak Island	1:80,728	34X44
		Sitkalidak Passage	1:20,000	
8537	1.00	Sitkinak Strait and Alitak Bay, Kodiak Island	1:81,529	36X43
8540	.50	Cape Alitak to Cape Ikolik, Kodiak Island	1:80,905	27X35
8541	.75	Cape Ikolik to Cape Kuliuk, Kodiak Island	1:80,000	34X37
8542	1.00	Uganik and Uyak Bays, Kodiak Island	1:80,000	33X44
8710	1.00	Chignik and Kujulik Bays, Alaska Peninsula	1:77,477	35X45
		Anchorage and Mud Bays, Chignik Bay	1:40,000	
HARBOR CHARTS				
8545	.75	Kodiak and St. Paul Harbors, Kodiak Island	1:20,000	35X36
		Kodiak Harbor	1:10,000	
8546	.75	Womens Bay, Kodiak Island	1:10,000	33X42
8573	.75	Shuyak Strait and Bluefox Bay	1:20,000	29X44
8575	1.00	Part of Alitak Bay—Cape Alitak to Moser Bay, Kodiak Island	1:20,000	36X45
8666	.75	Portage and Wide Bays, Alaska Peninsula	1:50,000	33X43
8667	.75	Kukak Bay, Alaska Peninsula	1:30,000	30X40
8822	.25	Bays and Anchorages, Kodiak Island (3 plans)		24X27
		Karluk Anchorage	1:20,000	
		Larsen Bay	1:20,000	
		Uyak Anchorage	1:20,000	
8851	.75	Harbors and Anchorages, southwestern Alaska (11 plans; see General Charts above, also pages 30 and 33)		32X45
		Big Koniui I. to Simeonof I.	1:80,000	
		Chiaichi Islands Anchorage	1:25,000	
		Mist Harbor, Nagai Island	1:10,000	
		Port Wrangell and Chiginagak Bay, Alaska Peninsula	1:80,000	
		Southwest Anchorage, Chirikof Island	1:53,600	



COAST AND HARBOR CHARTS—ALASKA
SHUMAGIN ISLANDS TO ISLANDS OF FOUR MOUNTAINS

No.	Price	TITLE	Scale	Paper size (inches)
COAST CHARTS				
8700	\$0.75	Shumagin Islands—Nagai Island to Unga Island Popof Strait—northern part Delarof Harbor	1:100,000 1:30,000 1:20,000	35X41
8701	.75	Morzhovoi Bay and Isanotski Strait	1:80,660	35X41
8703	1.00	Cold Bay and approaches, Alaska Peninsula	1:80,000	35X48
8704	1.00	Unga Island to Pavlof Bay, Alaska Peninsula	1:80,000	35X46
8705	1.00	Sanak Island and Sandman Reefs	1:81,326	35X47
8720	1.00	Krenitzin Islands	1:80,000	35X48
8833	.50	Port Moller and Herendeen Bay	1:80,000	29X37
8860	1.00	Amak Island	1:80,000	
9030	1.00	Islands of Four Mountains, Aleutian Islands	1:80,000	35X47
HARBOR CHARTS				
8841	.25	Harbors and Anchorages, Sanak Island (3 plans) Northeast Harbor Peterson and Salmon Bays Sanak Harbor	1:10,000 1:20,000 1:10,000	22X23
8851	.75	Harbors and Anchorages, southwestern Alaska (11 plans, see also pages 29 and 33) Big Koniugi I. to Simeonof I. Chiachi Islands Anchorage Dolgoi Harbor, Dolgoi Island Mist Harbor, Nagai Island	1:80,000 1:25,000 1:40,000 1:10,000	32X45
9005	1.00	Akutan Bay, Krenitzin Islands	1:20,000	36X48
9006	1.00	Captains Bay, Unalaska Island	1:10,000	32X48
9007	1.00	Unalaska Bay and Akutan Pass	1:40,000	32X47
9008	.75	Dutch Harbor, Unalaska Island	1:10,000	29X35
9009	.50	Chernofski Harbor, Unalaska Island	1:10,000	25X34
9018	1.00	Beaver Inlet, Unalaska Island	1:40,000	36X47
9019	1.00	Protection Bay to Eagle Bay, Unalaska Island	1:40,000	36X46
9020	1.00	Kuliliak Bay to Surveyor Bay, Unalaska Island	1:40,000	36X47
9021	1.00	Umnak Pass and approaches	1:40,000	36X47
9022	1.00	Chernofski Harbor to Skan Bay, Unalaska Island	1:40,000	36X47
9023	1.00	Makushin Bay, Unalaska Island	1:40,000	33X47
9024	1.00	Cape Kovrizhka to Cape Cheerful, Unalaska Island	1:40,000	32X48
9025	1.00	Inanudak Bay and Nikolski Bay, Umnak Island River and Mueller Coves	1:40,000 1:10,000	35X47



COAST AND HARBOR CHARTS - ALASKA
ANDREANOF ISLANDS

**COAST AND HARBOR CHARTS—ALASKA
ANDREANOF ISLANDS**

No.	Price	TITLE	Scale	Paper size (inches)
GENERAL CHART				
9193	\$1.00	Atka Pass to Adak Strait, Andreanof Islands	1:120,000	34X48
HARBOR CHARTS				
8862	1.00	Amukta I. to Igitkin I. Finch Cove—Seguam Island	1:20,000	36X47
9010	1.00	Nazan Bay and Amlia Pass, Atka Island	1:20,000	34X47
9119	1.00	Sweeper Cove, Finger and Scabbard Bays—Adak Island	1:10,000	33X47
9120	.75	Bay of Islands, Adak Island Argonne Channel Hell Gate	1:12,000 1:6,000 1:6,000	32X42
9121	.75	Harbors and Anchorages, Andreanof Islands Sviechnikof Harbor, Amlia Island Three Arm Bay, Adak Island Shagak Bay, Adak Island Kanaga Bay, Kanaga Island Hot Springs Bay, Tanaga Island Chapel Roads and Chapel Cove, Adak Island	1:30,000 1:20,000 1:20,000 1:7,500 1:10,000 1:10,000	34X42
9136	1.00	Korovin Bay to Wall Bay, Atka Island Martin Harbor	1:40,000 1:10,000	35X48
9137	1.00	Atka Island—western part	1:40,000	35X46
9138	1.00	Atka Island to Chugul Island, Andreanof Islands	1:30,000	35X47
9139	1.00	Tagalak Island to Great Sitkin Island, Andreanof Islands Sand Bay, Great Sitkin Island	1:30,000 1:10,000	36X48
9140	1.00	Tagalak Island to Little Tanaga Island, Andreanof Islands	1:30,000	35X48
9141	1.00	Kuluk Bay and approaches, including Little Tanaga and Kagalaska Straits, Andreanof Islands	1:30,000	35X48
9145	.75	Kanaga Pass and approaches, Andreanof Islands	1:50,000	34X40
9146	1.00	Tanaga Bay and approaches, Andreanof Islands	1:50,000	31X40