

Map 20. Wave height ≥ 12 and ≥ 20 feet

BLACK LINE – Percent frequency of wave height 212 feet (≥ 3.5 meters).

BLUE LINE – Percent frequency of wave height ≥ 20 feet (≥ 6 meters).

Albers Equal-Area Conic Projection

Graphs: Wave height/period

Percent frequency of occurrence of wave period and height.

WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-0.5	21	3	1	+	+	+	6
1-1.5	22	16	6	2	1	+	+
2-2.5	3	6	4	3	1	+	+
3-3.5	+	1	1	1	1	+	+
4-5.5	+	+	+	+	+	+	0
6-7.5	0	+	+	0	0	+	0
8-9.5	0	0	0	+	0	0	0
≥ 10	0	0	0	0	0	+	0

40 1 0

+ indicates $<.5\%$ but >0 .

(2% of observed waves had a height of 1-1.5 meters and a period of 10-11 seconds.)

Number of observations.

Waves are selected on the basis of the higher of sea and swell when both are reported. If both heights are equal, the wave with the longer period is selected.

Wave period is the interval in seconds between the passage of two successive crests or troughs of well-formed waves past a fixed point. Waves in the same system usually occur in a sequence of a few large, well-formed waves followed by an interval in which only small and poorly-formed waves occur, and another series of well-formed waves, etc. Observers aboard ship determine the values of wave height, period, and direction generally using only the well-formed waves and ignoring poorly-formed waves. To describe a similar sea state from a measured wave record, a statistical approach is used to describe the significant wave height ($\bar{H}_{1/3}$) which is the average of the highest one-third of the measured waves. This roughly approximates the characteristic height observed visually from aboard ship. To determine the period of wind waves or swell, the observer needs only to select a distinctive patch of foam or a small floating object at some distance from the ship. As the object falls astern, a new one is selected. The elapsed time is determined to the nearest second between the instant when the object is on the crest of the first and of the last well-formed wave in the group. Noting the number of crests that pass under the object during the interval permits computation of the average period. An experienced observer needs only to observe a few representative wave "sets" to derive the average period.

The number of observations noted on the graphs is that of those observations reporting both wave height and period. The wave height isopleth presentations are for a generally hazardous sea condition (wave heights equal to or greater than 12 feet). Refer to the texts of Sets 14 and 18-21 for complete information on waves.

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	5	1	+	+			11
1-1.5	20	7	2	+	+	+	1
2-2.5	9	11	2	1	+	1	1
3-3.5	3	6	5	1	+	+	+
4-5.5	+	3	3	1	+	+	1
6-7.5	+	+	+	+			+
8-9.5							
≥10							

2398

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	4	1	+	+			4
1-1.5	14	5	2	1	+	+	3
2-2.5	9	12	3	2	1	+	3
3-3.5	2	8	6	1	+	+	2
4-5.5	1	3	5	2	+	+	2
6-7.5	+	+	1	1	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

4806

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	7	1	+	+			3
1-1.5	19	8	2	1	1	+	2
2-2.5	11	11	3	1	+	+	2
3-3.5	2	9	3	+	+	+	1
4-5.5	+	4	3	1	+	+	1
6-7.5		+	1	1	+	+	+
8-9.5		+	+	+	+		
≥10							

3378

Marine Area D

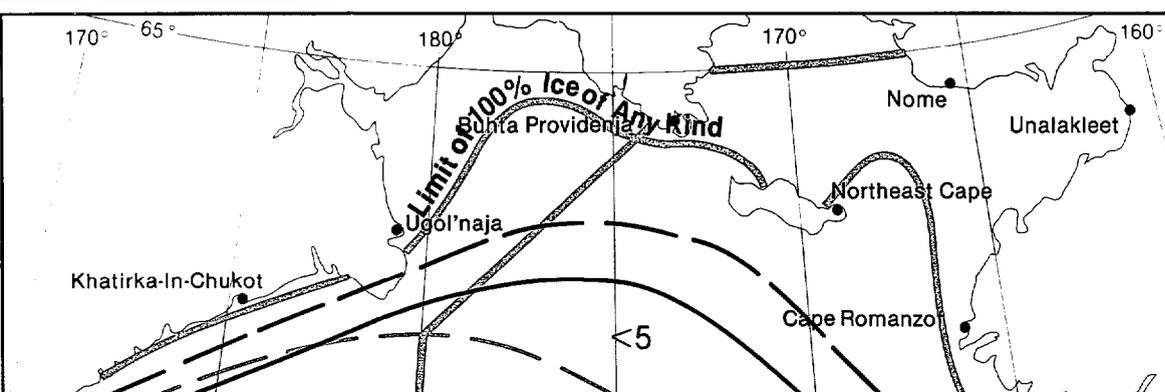
WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	3	+	+	+			2
1-1.5	14	7	1	1	1	+	2
2-2.5	10	11	4	2	1	+	2
3-3.5	3	8	5	2	+	+	1
4-5.5	1	4	4	3	1	+	1
6-7.5	+	1	1	1	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

5878

Marine Area E

WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	3	+	+	+			2
1-1.5	11	8	2	1	+	+	1
2-2.5	6	11	7	3	1	+	2
3-3.5	2	6	6	3	1	+	2
4-5.5	1	3	5	3	1	+	1
6-7.5	+	1	1	1	1	+	+
8-9.5		+	+	+	+	+	+
≥10							

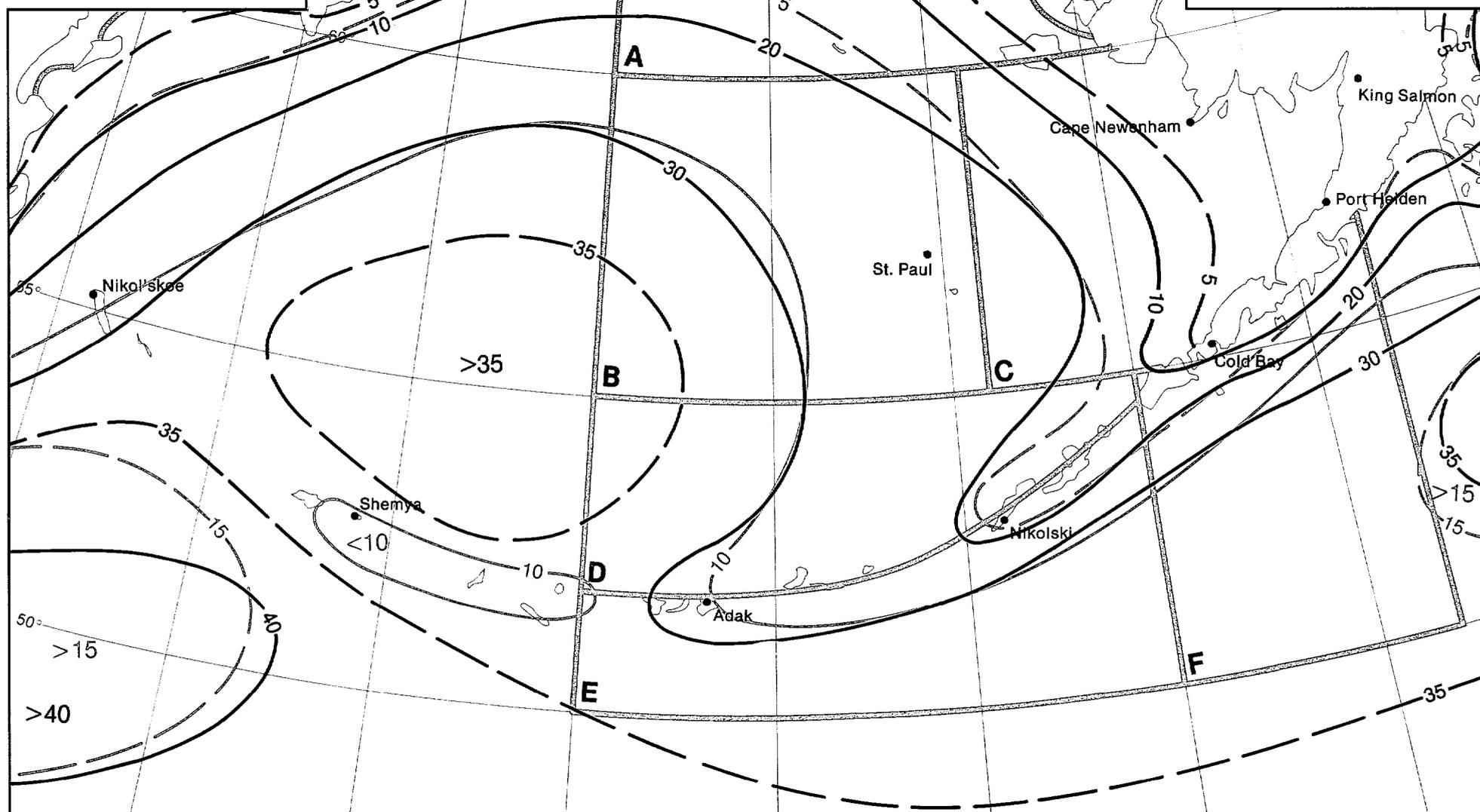
4238



Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	4	+	+	+			2
1-1.5	11	6	2	1	+	+	1
2-2.5	7	11	5	3	1	1	2
3-3.5	2	8	5	2	1	+	2
4-5.5	1	4	5	3	1	+	2
6-7.5	+	+	1	1	1	+	+
8-9.5		+	+	+	+	+	+
≥10							

5468



January

20 Wave Height and Period
Wave Height ≥12 and ≥20 Feet

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	9	1	1	1			22
1-1.5	16	4	2	1	1	+	1
2-2.5	6	8	3	1	+	+	1
3-3.5	1	4	4	1	+	+	1
4-5.5	1	1	3	3	1	+	1
6-7.5		+	+	1	+		
8-9.5							
≥10							

901

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	7	1	+	+	+		7
1-1.5	19	6	2	1	1	+	3
2-2.5	8	10	3	1	+	+	2
3-3.5	2	7	4	1	+	+	1
4-5.5	1	3	4	1	1	+	1
6-7.5	+	+	1	+	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

5581

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	7	1	+	+			7
1-1.5	17	6	2	1	+	+	2
2-2.5	11	11	4	1	+	+	1
3-3.5	2	9	4	1	+		1
4-5.5	1	3	4	1	+	+	+
6-7.5		+	+	+	+	+	+
8-9.5		+					
≥10							

3324

Marine Area D

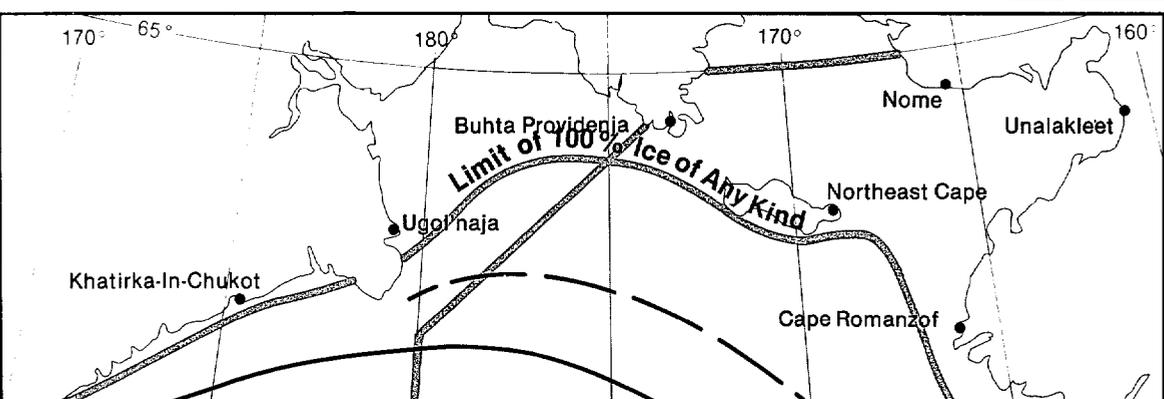
WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	4	1	+	+			2
1-1.5	16	7	3	1	+	+	1
2-2.5	9	11	5	2	+	+	2
3-3.5	3	7	5	2	1	+	1
4-5.5	1	4	3	2	1	+	2
6-7.5	+	1	+	+	+	+	1
8-9.5		+	+	+	+	+	+
≥10							

6139

Marine Area E

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	3	+	+	+			2
1-1.5	13	8	3	1	+	+	1
2-2.5	6	10	7	3	1	+	1
3-3.5	2	6	5	3	1	1	2
4-5.5	1	3	3	4	1	1	2
6-7.5	+	1	+	1	+	1	+
8-9.5		+	+	+	+	+	+
≥10							

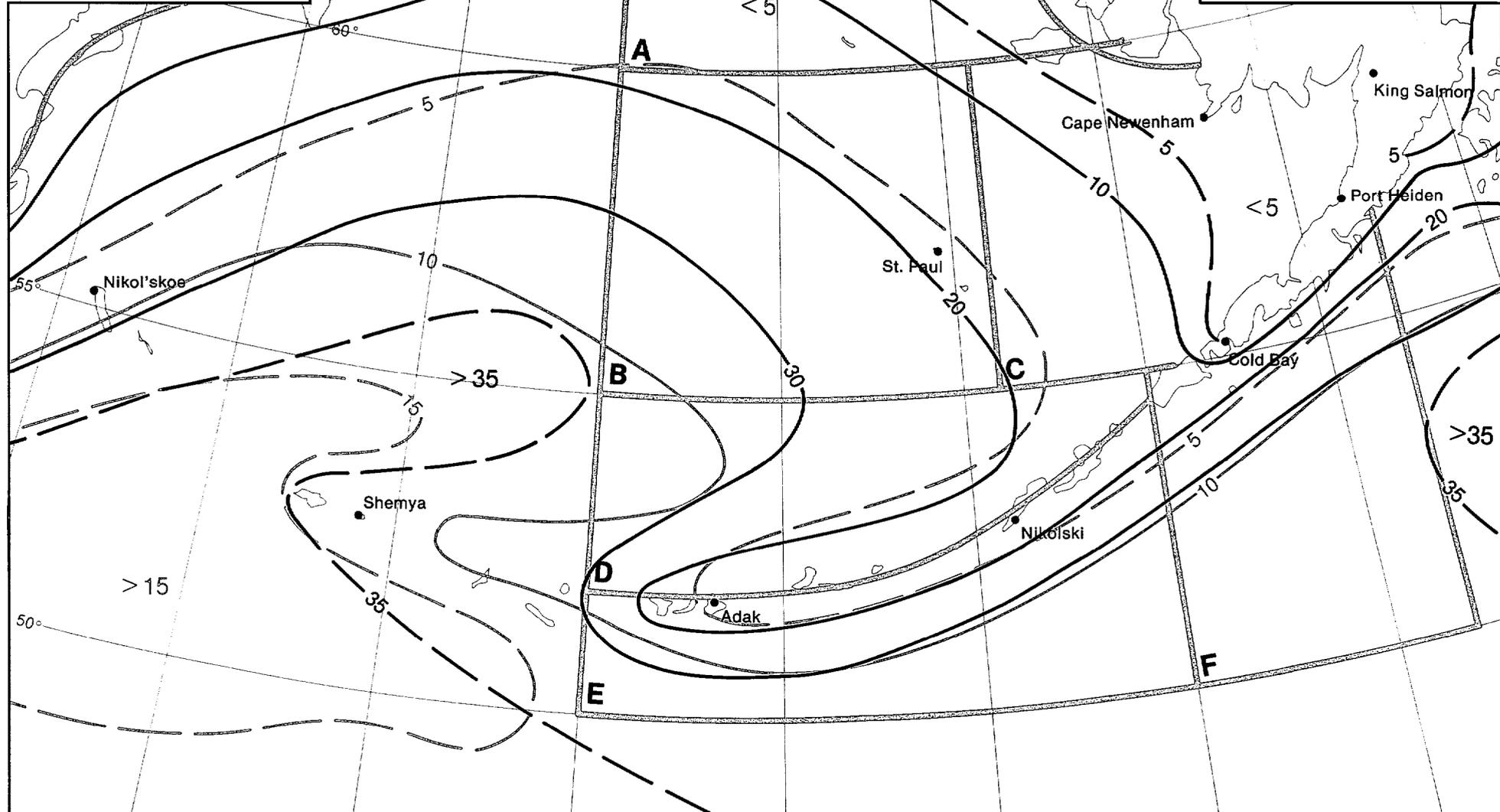
4434



Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	4	+	+	+			2
1-1.5	12	6	3	1	1	+	1
2-2.5	8	11	6	2	1	1	1
3-3.5	2	7	5	3	1	+	2
4-5.5	1	4	4	3	1	1	3
6-7.5	+	1	1	1	1	+	1
8-9.5		+	+	+	+	+	+
≥10							

5606



20 Wave Height and Period
Wave Height ≥12 and ≥20 Feet

February

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	+	+				38
1-1.5	8	6	6	2	1	+	+
2-2.5	3	5	5	2	1	1	+
3-3.5		2	5	2	+		
4-5.5		1	3	1	+		
6-7.5			1	1	+		
8-9.5							
≥10							

529

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	9	1	+	+			8
1-1.5	16	6	3	2	1	+	2
2-2.5	7	11	4	2	1	+	1
3-3.5	2	6	3	1	+	+	1
4-5.5	1	2	3	1	+	+	1
6-7.5	+	+	+	+	+	+	+
8-9.5	+	+	+	+	+	+	+
≥10							

5067

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	11	1	+	+			9
1-1.5	21	8	3	1	+	+	2
2-2.5	7	12	5	1	+	+	1
3-3.5	1	4	3	1	+	+	+
4-5.5	1	1	2	1	+	+	1
6-7.5		+	+	+	+	+	+
8-9.5		+	+	+		+	
≥10							

3720

Marine Area D

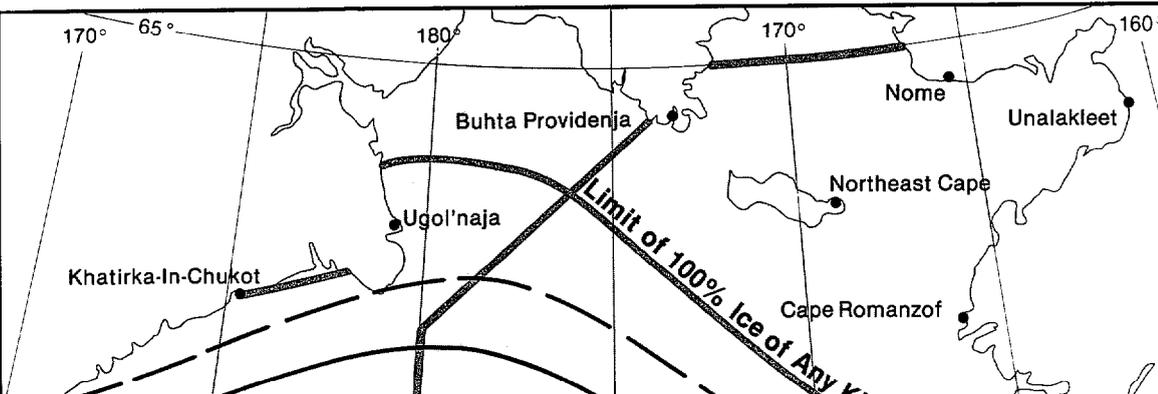
WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	1	+	+			2
1-1.5	15	8	3	1	+	+	1
2-2.5	9	13	4	1	+	+	1
3-3.5	2	8	4	1	1	+	1
4-5.5	1	4	3	2	1	+	1
6-7.5	+	1	+	1	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

7406

Marine Area E

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	+	+	+			1
1-1.5	11	8	3	1	+	+	1
2-2.5	6	10	7	3	1	1	2
3-3.5	2	6	5	3	1	1	2
4-5.5	1	3	4	3	2	1	2
6-7.5	+	+	1	1	1	+	+
8-9.5	+	+	+	+	+	+	+
≥10							

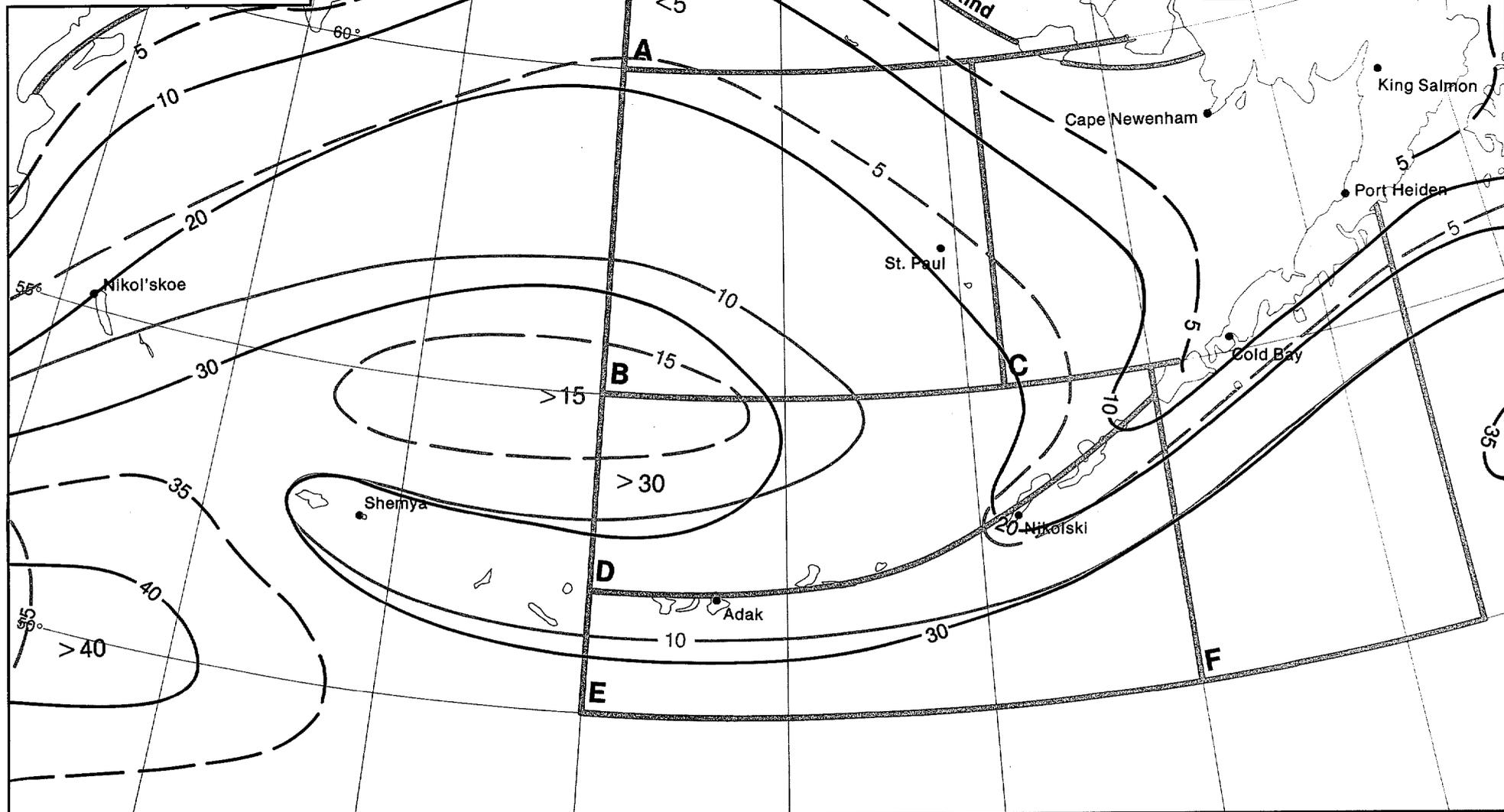
5303



Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	+	+	+			2
1-1.5	13	8	3	1	+	+	1
2-2.5	7	11	6	2	1	+	1
3-3.5	2	7	5	2	1	+	1
4-5.5	1	4	4	3	1	1	2
6-7.5	+	+	1	1	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

7075



March
20 Wave Height and Period
Wave Height ≥12 and ≥20 Feet

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	1	1				54
1-1.5	10	8	3	3	1		2
2-2.5	2	4	1	1		1	1
3-3.5		2	1	+	1		+
4-5.5				+			+
6-7.5					+		
8-9.5							
≥10							

396

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	12	1	1	+			8
1-1.5	17	9	4	2	2	+	2
2-2.5	6	10	3	1	1	+	1
3-3.5	1	4	2	1	1	+	1
4-5.5	+	3	2	1	+	+	+
6-7.5		1	+	+	+		+
8-9.5		+	+			+	
≥10							

3745

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	12	2	1	+			5
1-1.5	20	13	4	1	1	+	1
2-2.5	5	11	6	1	+	+	1
3-3.5	1	3	3	1	+	+	+
4-5.5	+	1	1	2	+	+	+
6-7.5	+	+	+	+	+	+	+
8-9.5			+	+		+	
≥10							

4070

Marine Area D

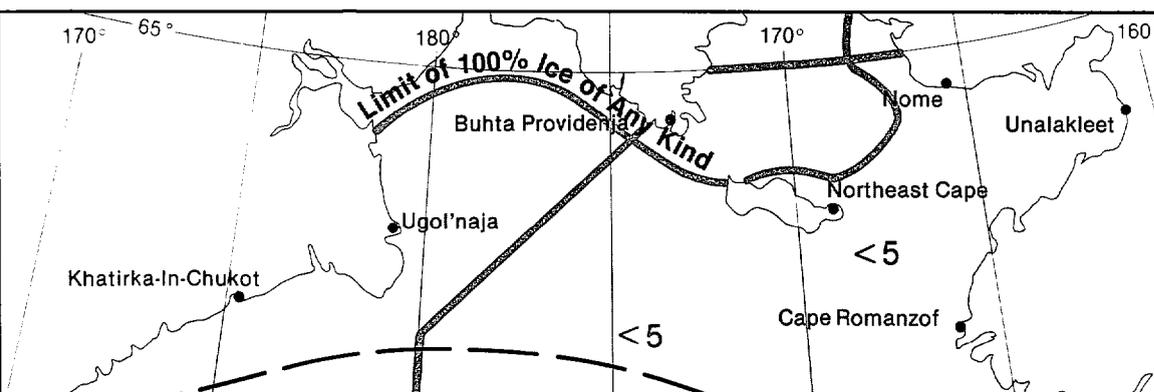
WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	6	1	+	+			2
1-1.5	17	8	2	1	+	+	2
2-2.5	9	13	4	1	+	+	1
3-3.5	2	8	4	1	+	+	1
4-5.5	1	3	3	2	1	+	1
6-7.5	+	+	+	+	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

6849

Marine Area E

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	1	+	+			2
1-1.5	12	9	3	1	+	+	1
2-2.5	6	11	7	3	1	+	1
3-3.5	2	7	5	2	1	1	1
4-5.5	1	3	4	2	1	1	1
6-7.5	+	+	1	1	1	+	+
8-9.5		+	+	+	+	+	+
≥10							

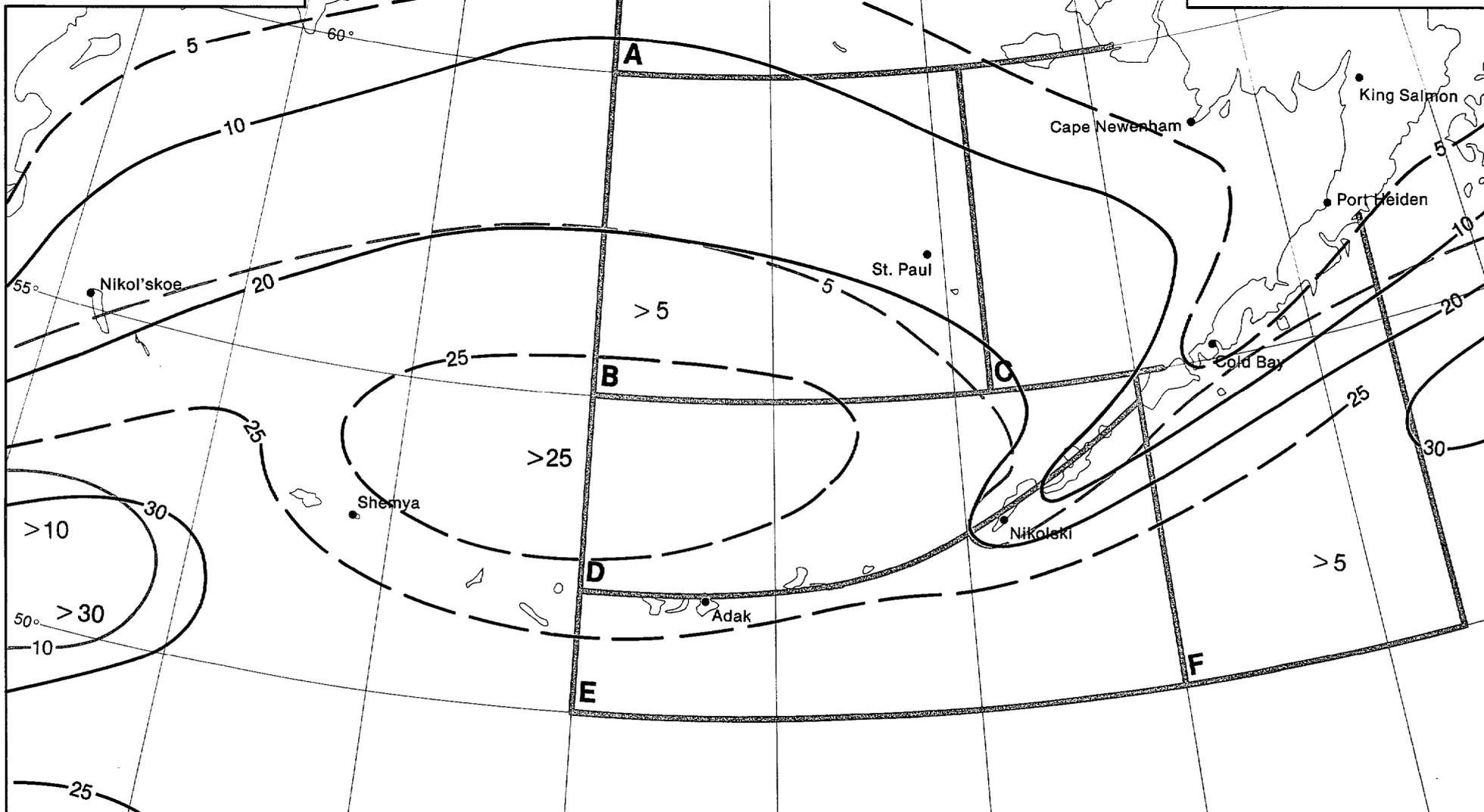
6302



Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	6	1	+	+			2
1-1.5	15	9	3	1	+	+	1
2-2.5	7	12	5	2	+	+	1
3-3.5	2	7	5	1	+	+	1
4-5.5	1	3	3	2	1	+	1
6-7.5	+	+	1	1	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

7948



20 Wave Height and Period
Wave Height ≥ 12 and ≥ 20 Feet

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	17	2	1	2			29
1-1.5	13	4	1	9	11		5
2-2.5	3	2	+	+	1		2
3-3.5	1	1					+
4-5.5	+						
6-7.5							
8-9.5							
≥10							

598

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	13	2	1	1			5
1-1.5	23	15	2	2	1	+	2
2-2.5	4	13	3	1	+	+	2
3-3.5	1	4	2	+	+		+
4-5.5	+	1	+	+	+	+	+
6-7.5		+	+	+		+	+
8-9.5			+				
≥10							

3032

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	20	2	1	+		+	7
1-1.5	25	13	3	1	+	+	1
2-2.5	4	9	5	1	+	+	+
3-3.5	1	2	1	1	+	+	+
4-5.5	+	1	1	+	+	+	+
6-7.5		+	+	+		+	+
8-9.5		+		+	+		
≥10							

5197

Marine Area D

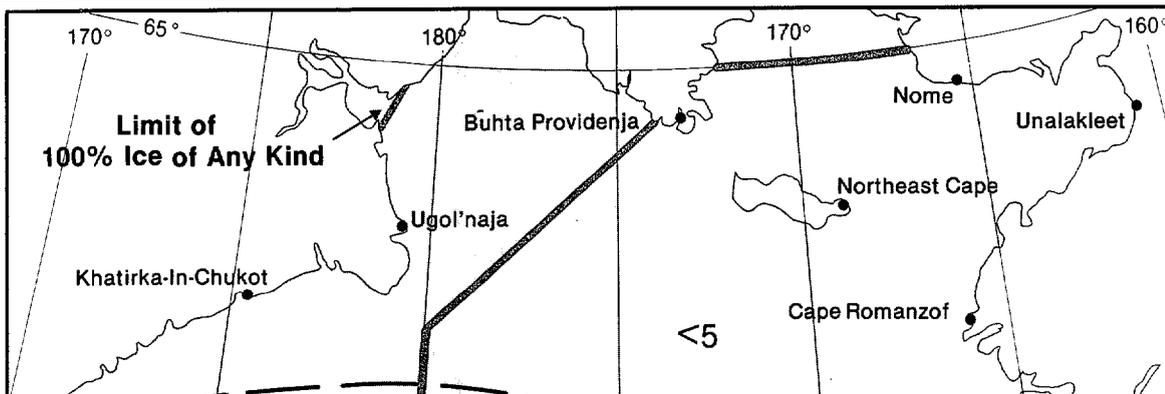
WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	10	2	1	+			4
1-1.5	24	10	3	1	1	+	2
2-2.5	8	10	3	1	+	1	1
3-3.5	2	4	2	1	+	+	+
4-5.5	1	1	1	1	+	+	+
6-7.5	+	+	+	+	+	+	+
8-9.5		+	+	+	+		
≥10							

7342

Marine Area E

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	8	1	+	+			3
1-1.5	18	11	4	1	1	+	1
2-2.5	6	10	7	2	1	+	1
3-3.5	1	5	4	2	1	+	1
4-5.5	1	2	3	2	1	+	1
6-7.5	+	+	1	+	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

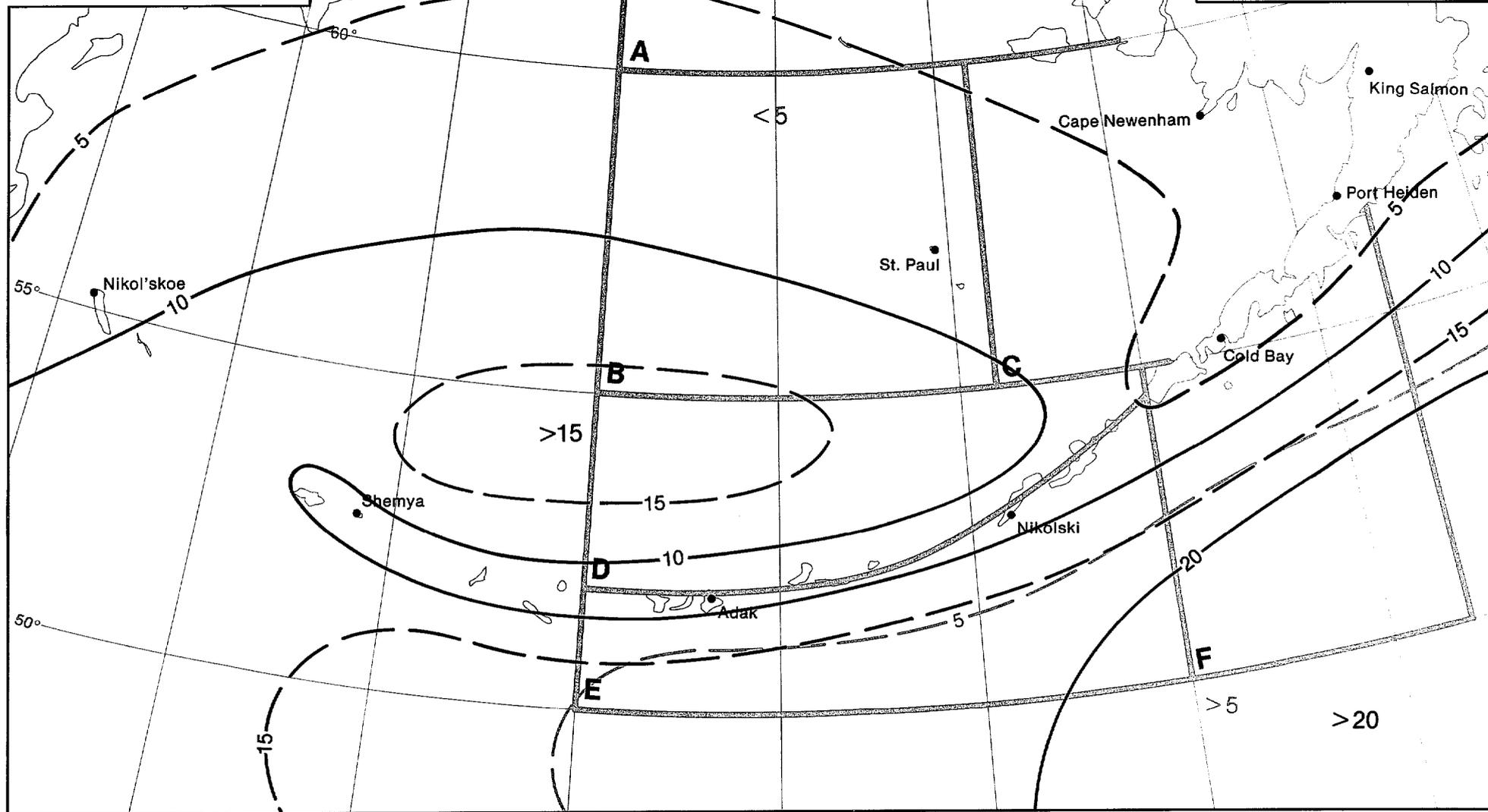
7706



Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	8	1	+	+	+		4
1-1.5	18	10	3	1	+	+	1
2-2.5	6	12	5	2	+	+	1
3-3.5	2	6	4	1	+	+	1
4-5.5	1	2	3	2	1	+	+
6-7.5	+	+	+	+	+	+	+
8-9.5		+	+	+	+		+
≥10							

8841



May

20 Wave Height and Period
Wave Height ≥12 and ≥20 Feet

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	27	2	+	1			19
1-1.5	20	7	2	4	2	+	2
2-2.5	7	2	+	1	+		1
3-3.5	1	1	+	+			+
4-5.5	+	+	+	+			+
6-7.5		+	+				+
8-9.5							
≥10							

1511

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	15	4	2	+			6
1-1.5	22	19	5	1	+	+	1
2-2.5	4	11	4	1	+	+	1
3-3.5	+	2	1	+	+		+
4-5.5	+	+	+	+	+	+	+
6-7.5							
8-9.5							
≥10							

3482

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	21	3	1	+			9
1-1.5	27	14	4	1	+	+	1
2-2.5	5	7	3	1	+	+	+
3-3.5	+	1	1	+	+	+	+
4-5.5	+	+	+	+	+	+	+
6-7.5			+				
8-9.5							
≥10							

5175

Marine Area D

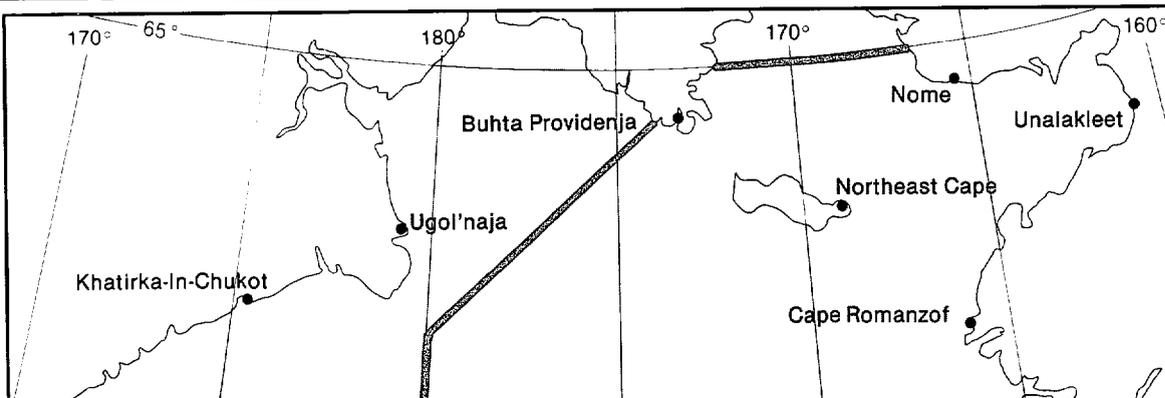
WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	15	2	1	+			5
1-1.5	27	13	3	1	1	1	2
2-2.5	8	9	3	1	+	+	1
3-3.5	1	3	1	1	+	+	+
4-5.5	+	1	1	+	+	+	+
6-7.5	+	+	+	+	+	+	+
8-9.5		+					
≥10							

7150

Marine Area E

WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	11	1	+	+			3
1-1.5	20	13	4	1	1	+	1
2-2.5	6	11	6	2	+	+	1
3-3.5	1	4	3	1	1	+	1
4-5.5	+	1	1	1	+	+	+
6-7.5	+	+	+	+	+	+	+
8-9.5		+	+	+			+
≥10							

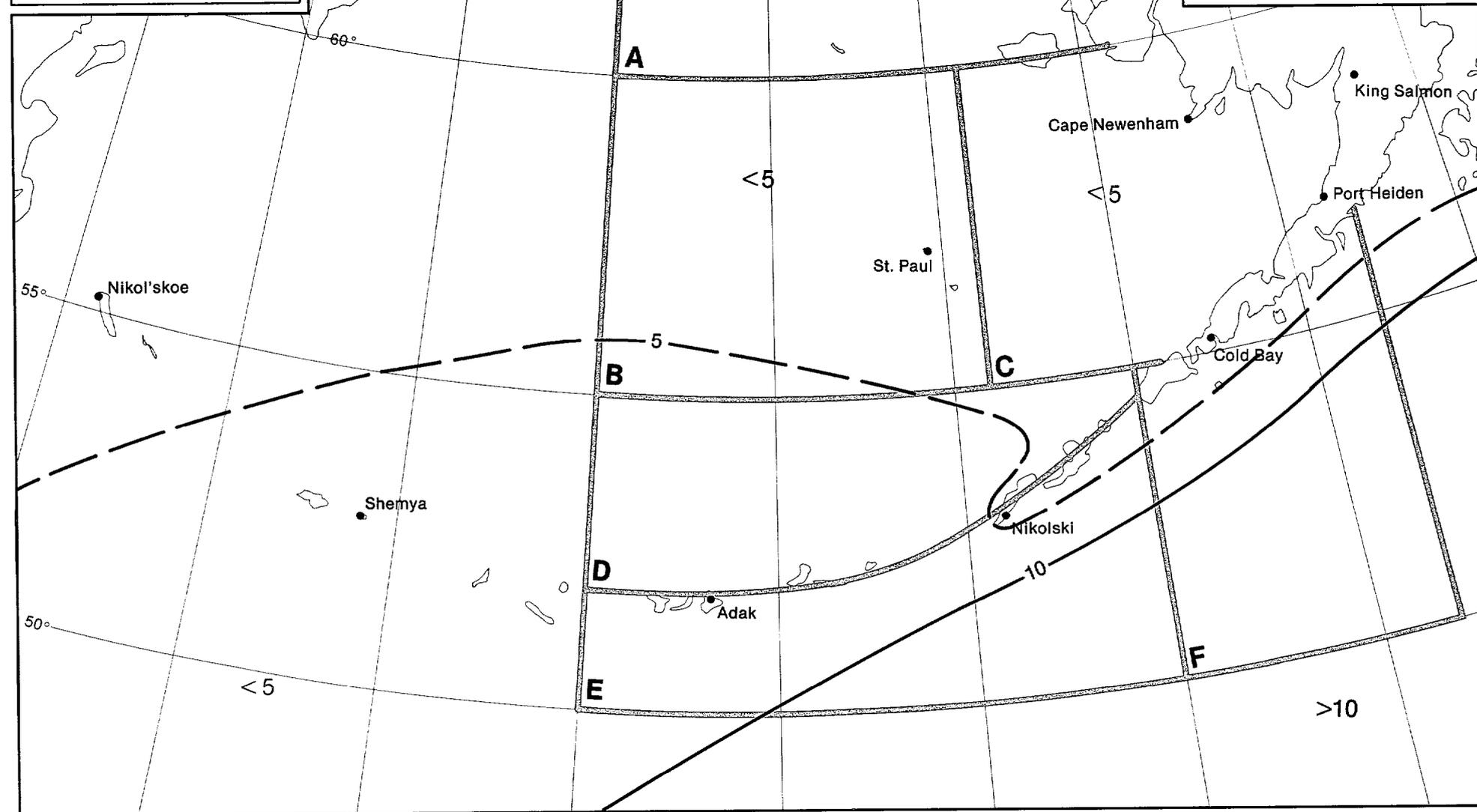
8053



Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						IND
	<6	6-7	8-9	10-11	12-13	>13	
0-.5	10	2	+	+			3
1-1.5	22	13	4	1	1	+	2
2-2.5	7	12	5	2	+	+	2
3-3.5	1	4	2	1	+	+	1
4-5.5	+	1	1	1	+	+	+
6-7.5	+	+	+	+	+	+	+
8-9.5		+					+
≥10							

8441



20 Wave Height and Period
Wave Height ≥12 and ≥20 Feet

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	26	4	1	1			12
1-1.5	24	10	3	+	1	+	3
2-2.5	5	5	1	+	+	+	1
3-3.5	+	1	1	+	+	+	+
4-5.5	+	+			+	+	+
6-7.5	+	+					
8-9.5							
≥10							

3111

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	14	3	+	+			4
1-1.5	23	22	4	+	+	+	1
2-2.5	4	12	4	1	+	+	+
3-3.5	1	2	1	+	+	+	+
4-5.5	+	+	+	+	+	+	+
6-7.5							+
8-9.5			+				+
≥10							

3916

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	19	2	1	+			8
1-1.5	29	15	3	1	+	+	1
2-2.5	4	8	3	1	+	+	1
3-3.5	+	2	1	+	+	+	+
4-5.5	+	+	+	+	+	+	+
6-7.5				+	+		
8-9.5							
≥10							

5657

Marine Area D

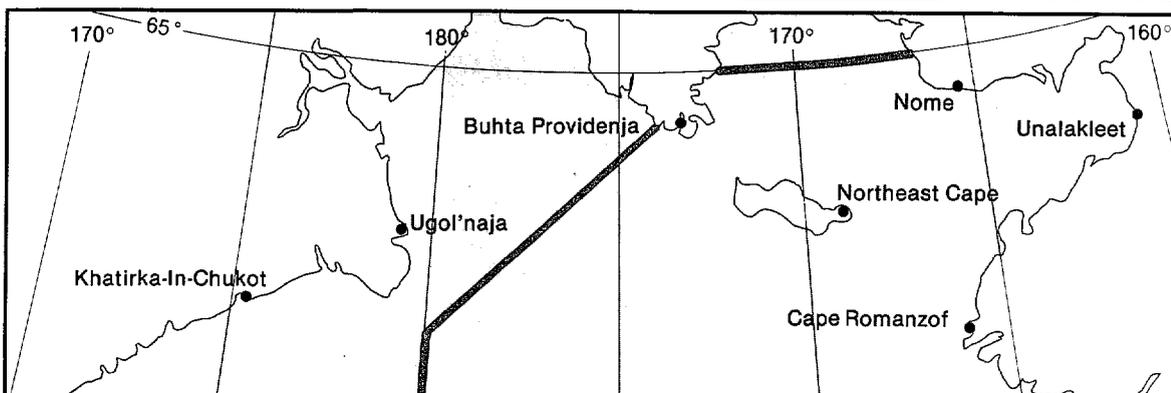
WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	14	2	1	+			7
1-1.5	27	12	4	1	1	+	2
2-2.5	7	8	3	1	+	+	1
3-3.5	1	3	1	+	+	+	1
4-5.5	+	1	1	+	+	+	+
6-7.5	+	+	+	+	+		+
8-9.5		+				+	+
≥10							

6785

Marine Area E

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	10	2	1	+			3
1-1.5	20	15	4	1	+	+	2
2-2.5	7	12	6	2	+	+	1
3-3.5	1	4	2	1	+	+	1
4-5.5	+	1	1	1	+	+	+
6-7.5	+	+	+	+	+	+	+
8-9.5	+						+
≥10							

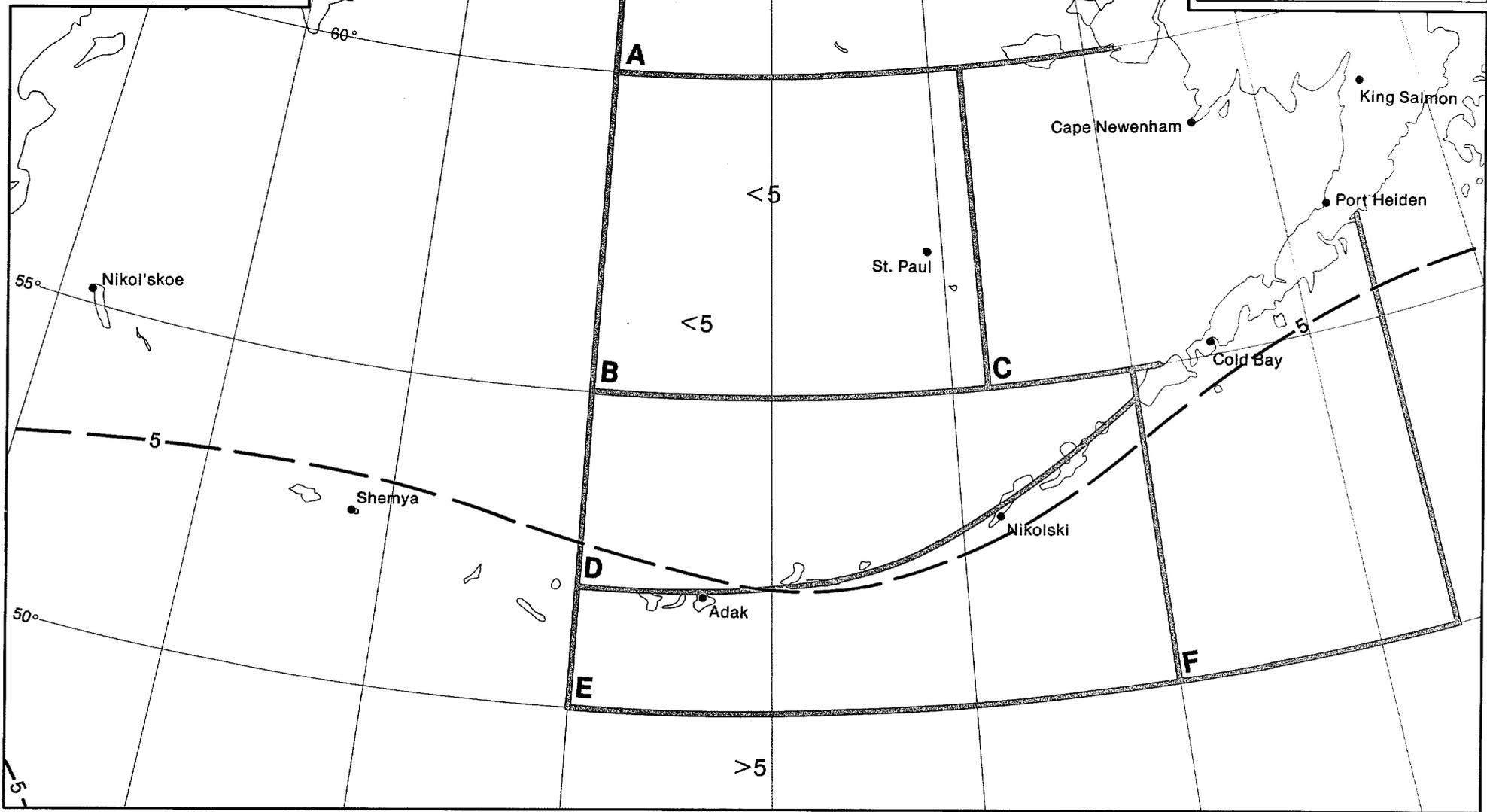
8682



Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	10	1	+	+			3
1-1.5	22	14	4	1	1	+	2
2-2.5	7	13	5	1	+	+	1
3-3.5	1	4	2	1	+	+	1
4-5.5	+	1	1	1	+	+	1
6-7.5	+	+	+	+	+		+
8-9.5			+				+
≥10							

9083



July

20 Wave Height and Period
Wave Height ≥ 12 and ≥ 20 Feet

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	23	3	+	+			8
1-1.5	25	12	2	+	+	+	3
2-2.5	4	8	3	1	+	+	1
3-3.5	1	2	1	+	+	+	+
4-5.5	+	+	+	+	+	+	+
6-7.5				+	+		+
8-9.5							
≥10							

2895

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	9	3	1	+			3
1-1.5	21	18	6	1	+	+	2
2-2.5	3	13	6	1	+	+	1
3-3.5	1	2	2	2	+	+	1
4-5.5	+	1	1	+	+	+	1
6-7.5	+	1	+	+			+
8-9.5		+	+				+
≥10							

2708

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	13	2	1	+			5
1-1.5	32	14	3	1	+	+	1
2-2.5	6	10	5	1	+	+	+
3-3.5	+	2	1	+	+	+	+
4-5.5	+	+	1	+	+	+	1
6-7.5		+	+	+			+
8-9.5							
≥10							

5072

Marine Area D

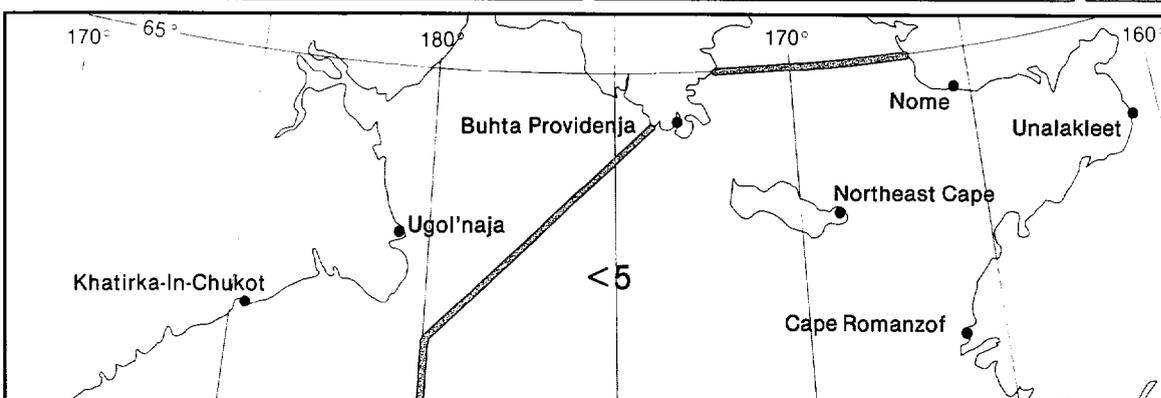
WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	11	2	+	+			4
1-1.5	25	12	3	1	1	+	1
2-2.5	9	11	3	1	+	+	1
3-3.5	2	4	2	1	+	+	1
4-5.5	1	1	1	1	+	+	1
6-7.5		+	+	+	+	+	+
8-9.5			+				+
≥10							

6807

Marine Area E

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	8	1	1	+			3
1-1.5	19	13	4	1	+	+	1
2-2.5	7	12	7	2	1	+	1
3-3.5	1	4	3	1	1	+	1
4-5.5	+	1	1	1	+	+	1
6-7.5	+	+	+	+	+	+	+
8-9.5		+					+
≥10							

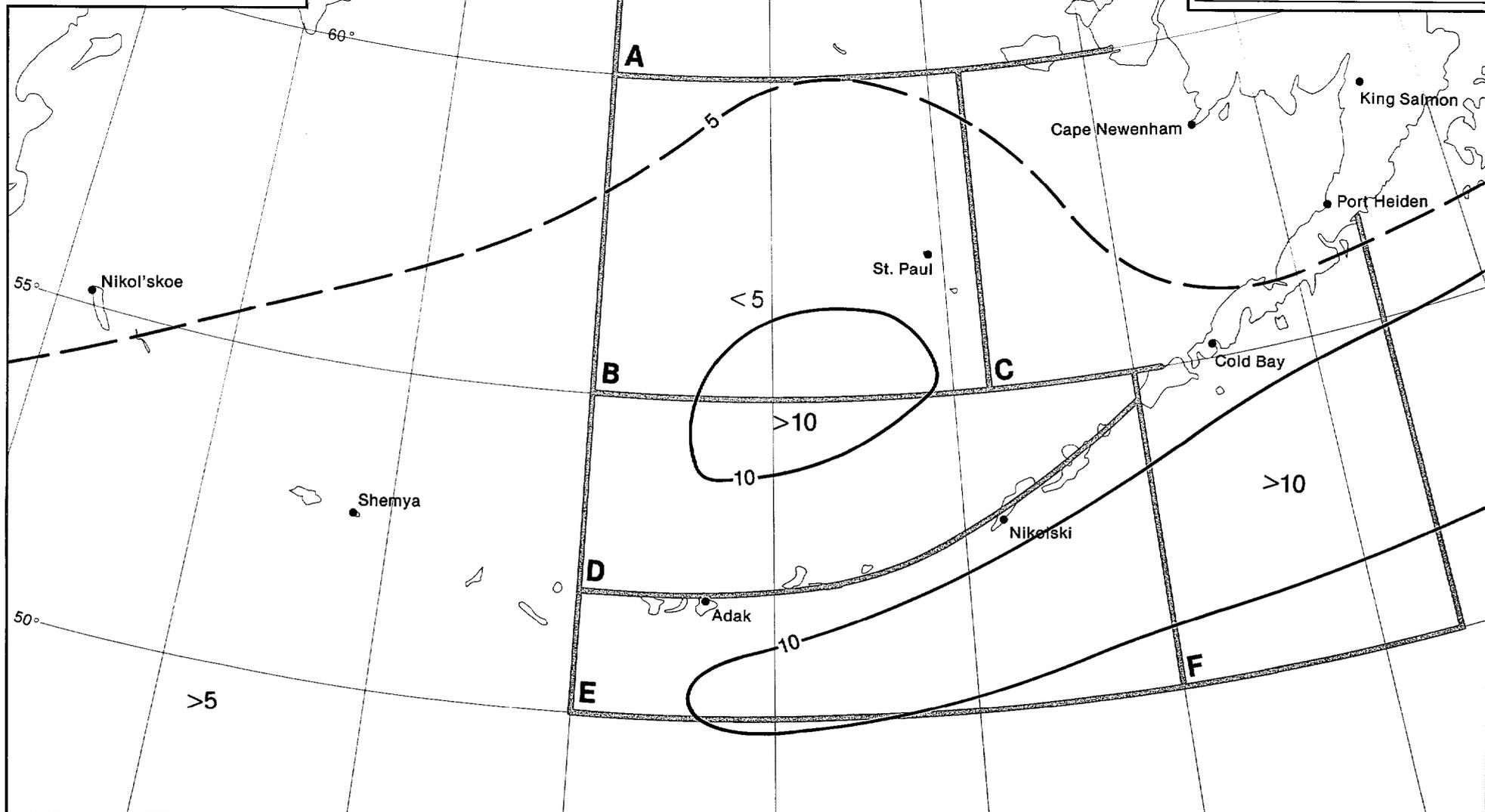
10019



Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	ND
0-.5	7	1	+	+			2
1-1.5	21	13	4	1	1	+	1
2-2.5	8	14	5	2	+	+	1
3-3.5	2	5	3	1	+	+	1
4-5.5	+	2	2	1	+	+	1
6-7.5	+	+	+	+	+	+	+
8-9.5			+				+
≥10							

9003



20 Wave Height and Period
Wave Height ≥ 12 and ≥ 20 Feet

August

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	21	2	+	+			7
1-1.5	26	11	1	1	+	+	2
2-2.5	6	7	1	1	+	+	1
3-3.5	1	2	1	+	+	+	1
4-5.5	+	1	1	+	+	+	+
6-7.5		+		+	+		+
8-9.5							
≥10							

2130

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	10	1	+	+			2
1-1.5	17	17	4	4	1	+	+
2-2.5	5	11	4	2	+	+	1
3-3.5	1	5	2	1	+		1
4-5.5	1	2	2	1	+	+	1
6-7.5		1	1	+	+	+	+
8-9.5		+	+				+
≥10							

2240

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	11	2	+	+			3
1-1.5	24	15	3	1	+	+	+
2-2.5	7	13	4	1	+	+	+
3-3.5	1	4	2	1	+	+	1
4-5.5	1	1	1	1	+	+	1
6-7.5	+	+	+	+	+		+
8-9.5		+	+	+			+
≥10							

5573

Marine Area D

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	9	1	+	+			4
1-1.5	21	9	2	1	+	+	1
2-2.5	8	12	4	1	+	+	1
3-3.5	2	6	3	1	+	+	1
4-5.5	1	3	2	1	+	+	1
6-7.5	+	+	+	+	+	+	+
8-9.5		+	+				+
≥10							

6481

Marine Area E

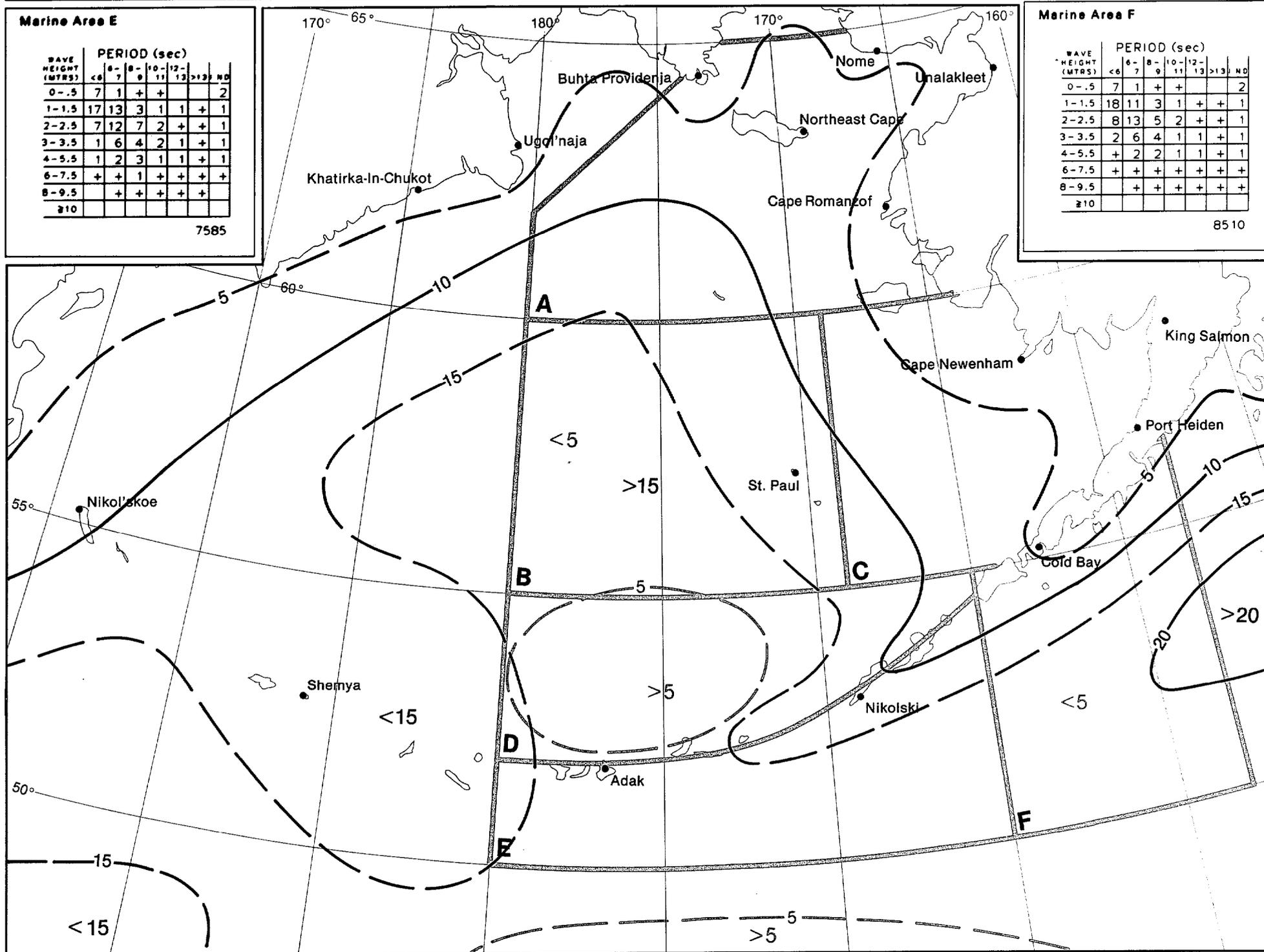
WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	7	1	+	+			2
1-1.5	17	13	3	1	1	+	1
2-2.5	7	12	7	2	+	+	1
3-3.5	1	6	4	2	1	+	1
4-5.5	1	2	3	1	1	+	1
6-7.5	+	+	1	+	+	+	+
8-9.5	+	+	+	+	+	+	+
≥10							

7585

Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	7	1	+	+			2
1-1.5	18	11	3	1	+	+	1
2-2.5	8	13	5	2	+	+	1
3-3.5	2	6	4	1	1	+	1
4-5.5	+	2	2	1	1	+	1
6-7.5	+	+	+	+	+	+	+
8-9.5	+	+	+	+	+	+	+
≥10							

8510



September

20 Wave Height and Period
Wave Height ≥ 12 and ≥ 20 Feet

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	11	1		+			4
1-1.5	24	8	2	1	1	+	4
2-2.5	8	12	2	+	+	1	4
3-3.5	1	4	3	1	+	+	1
4-5.5	+	1	1	2	1	+	1
6-7.5		+	+	+			+
8-9.5				+			
≥10							

1231

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	1	+	+			1
1-1.5	16	9	3	1	+	+	2
2-2.5	11	11	5	2	+	+	3
3-3.5	2	7	4	2	+	+	3
4-5.5	1	4	3	1	+	+	2
6-7.5	+	1	+	1	+	+	+
8-9.5		+		+	+	+	
≥10							

1675

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	6	1	+	+			2
1-1.5	18	13	2	1	+	+	1
2-2.5	8	17	3	1	+	+	1
3-3.5	2	7	4	1	+	+	1
4-5.5	1	2	3	1	+	+	2
6-7.5	+	+	1	+	+	+	+
8-9.5		+	+	+	+	+	
≥10							

3593

Marine Area D

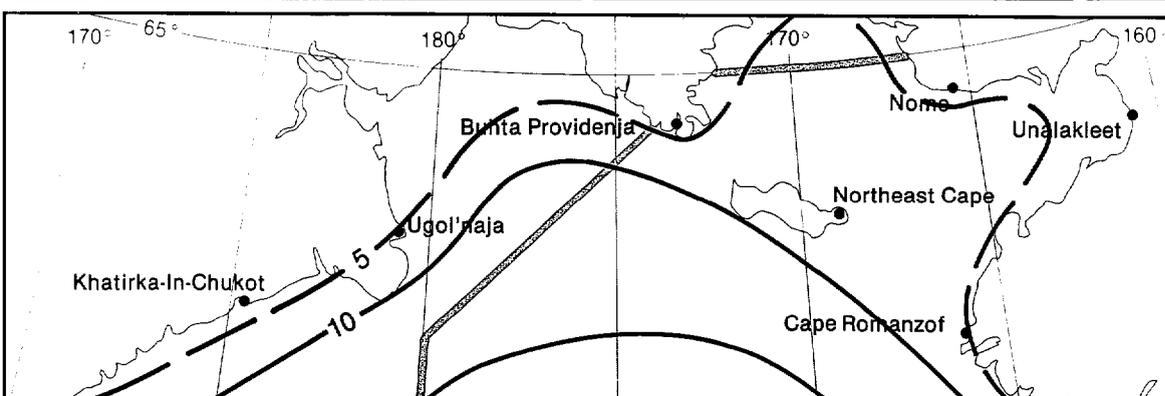
WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	1	+	+			2
1-1.5	17	9	2	1	+	+	1
2-2.5	9	13	4	1	+	+	2
3-3.5	3	7	5	1	+	+	2
4-5.5	1	3	4	2	+	+	2
6-7.5	+	1	1	+	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

6111

Marine Area E

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	1	+	+			1
1-1.5	14	9	2	1	1	+	1
2-2.5	8	11	7	3	1	+	1
3-3.5	2	7	4	2	1	+	1
4-5.5	1	3	3	2	1	1	1
6-7.5	+	1	1	+	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

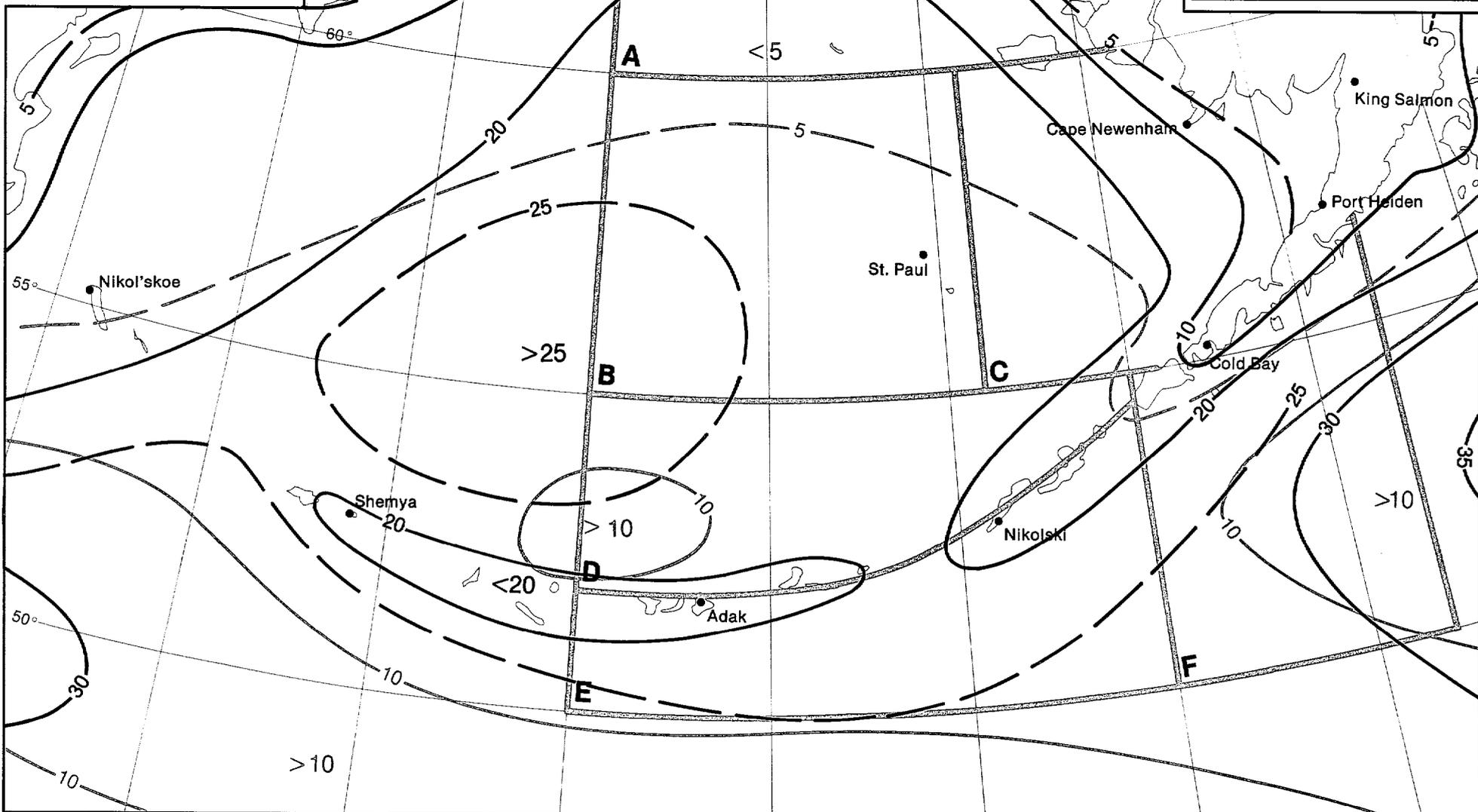
6686



Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	1	+	+			2
1-1.5	16	7	2	+	+	+	1
2-2.5	8	12	5	2	1	+	1
3-3.5	2	7	5	2	1	+	2
4-5.5	1	4	4	2	1	+	2
6-7.5	+	1	1	1	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

7832



20 Wave Height and Period
Wave Height ≥ 12 and ≥ 20 Feet

October

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	6	+	+				3
1-1.5	20	5	3	+		+	2
2-2.5	12	12	3	+	+	+	2
3-3.5	2	6	4	+	+	+	1
4-5.5	1	2	3	1	1	+	1
6-7.5	+	1	1	1	+	1	1
8-9.5		+					+
≥10							

1094

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	+	+	+			2
1-1.5	20	5	2	1	+	+	2
2-2.5	9	12	3	1	+	+	2
3-3.5	2	7	6	1	1	+	2
4-5.5	2	3	3	2	+	+	2
6-7.5		1	1	1	+	1	+
8-9.5		+	+	+	+	+	+
≥10							

2246

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	1	+				2
1-1.5	15	9	3	1	+	+	2
2-2.5	9	14	4	1	+	+	1
3-3.5	2	10	3	1	+	+	1
4-5.5	1	3	4	2	+	+	1
6-7.5	+	1	1	1	+	+	+
8-9.5		+	+	+	+	+	+
≥10							

2793

Marine Area D

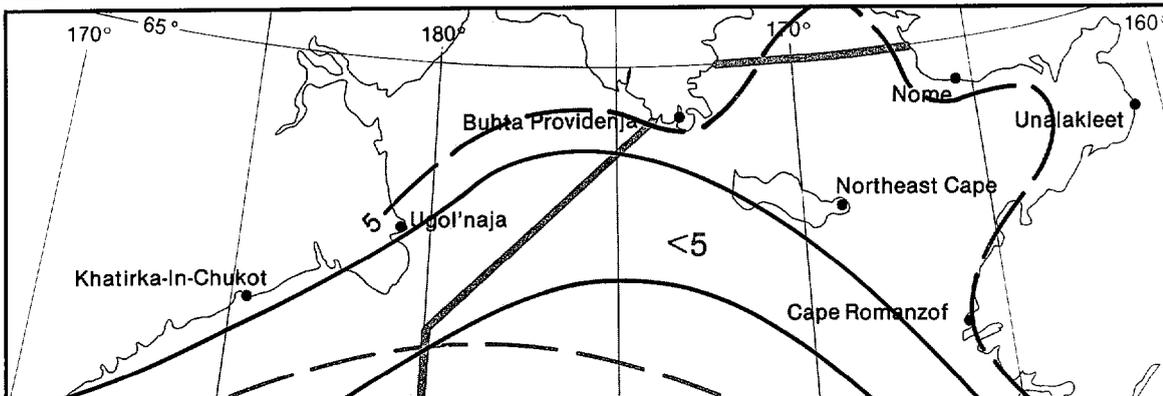
WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	1	+	+			2
1-1.5	12	6	1	1	+	+	1
2-2.5	9	11	4	2	+	+	2
3-3.5	3	8	5	2	+	+	1
4-5.5	1	5	5	2	1	+	2
6-7.5	+	1	1	1	1	+	1
8-9.5		+	+	+	+	+	+
≥10							

5810

Marine Area E

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	+	+	+			1
1-1.5	9	7	2	1	+	+	1
2-2.5	6	11	7	3	1	+	1
3-3.5	2	7	5	3	2	+	1
4-5.5	1	4	4	4	2	1	2
6-7.5	+	1	1	1	1	1	1
8-9.5		+	+	+	+	+	+
≥10							

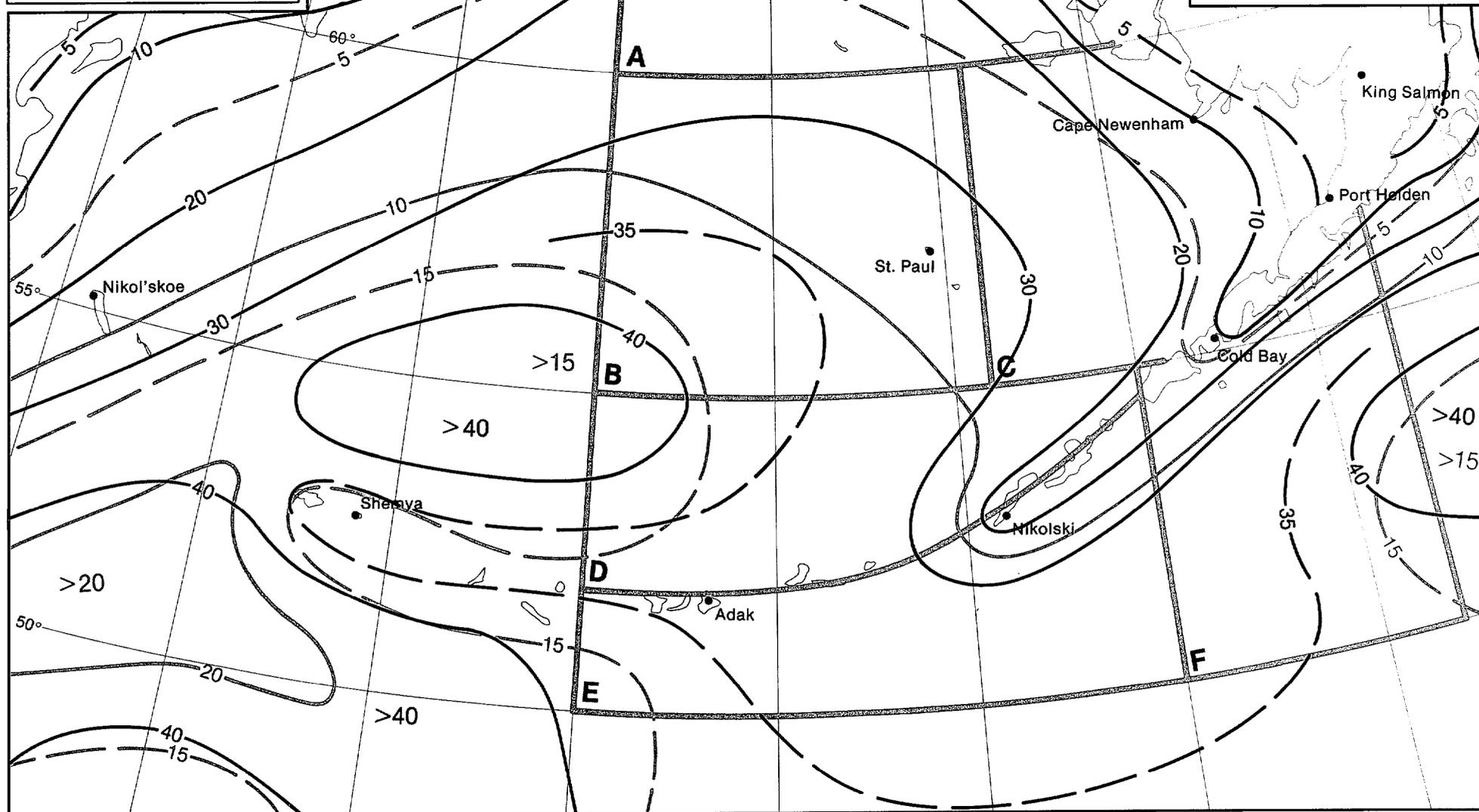
5030



Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	+	+	+			2
1-1.5	11	7	2	1	+	+	1
2-2.5	7	11	5	2	1	+	2
3-3.5	2	7	5	2	1	+	1
4-5.5	1	4	5	3	2	1	2
6-7.5	+	1	1	1	1	+	+
8-9.5		+	+	+	+	+	+
≥10							

7079



November

20 Wave Height and Period
Wave Height ≥12 and ≥20 Feet

Marine Area A

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	7	1	1	+			10
1-1.5	20	6	4	+	+	+	1
2-2.5	8	10	2	1	+	+	+
3-3.5	2	5	4	+	+	+	+
4-5.5	+	2	3	3	1	+	+
6-7.5		1	1	2	+	+	
8-9.5							
≥10							

1865

Marine Area B

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	+	+	+			3
1-1.5	22	5	1	1	+	+	2
2-2.5	9	12	2	1	1	+	1
3-3.5	2	7	5	+	+	+	1
4-5.5	1	2	4	2	+	+	1
6-7.5	+	+	1	1	+	+	
8-9.5		+	+	+			
≥10							

3030

Marine Area C

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	8	2	+	+			3
1-1.5	18	8	1	1	+	+	1
2-2.5	9	13	3	1	+	+	1
3-3.5	1	10	4	1	+		1
4-5.5	+	2	3	2	+	+	
6-7.5	+	+	+	1	+	+	+
8-9.5		+	+	+			
≥10							

3161

Marine Area D

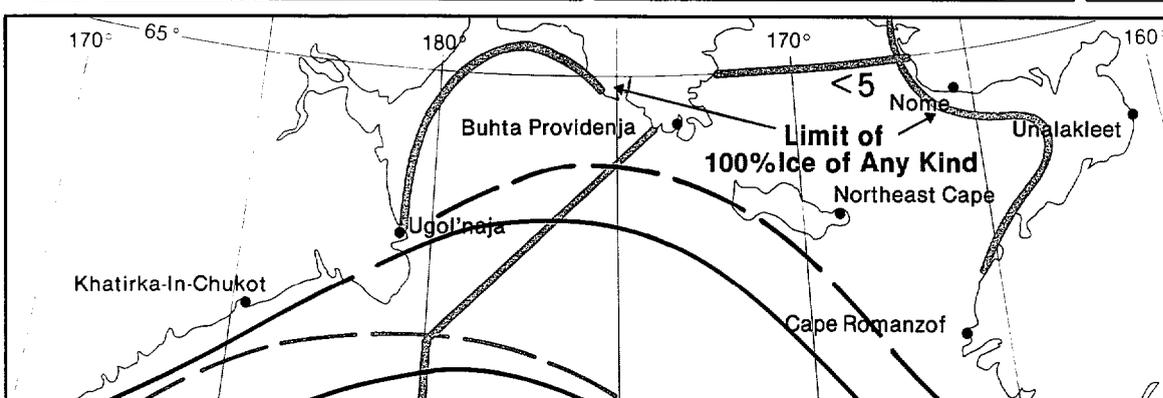
WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	+	+	+			1
1-1.5	13	6	2	1	+	+	1
2-2.5	8	10	5	2	+	+	1
3-3.5	3	9	5	2	1	+	1
4-5.5	1	4	5	2	1	+	+
6-7.5	+	1	1	1	1	+	+
8-9.5		+	+	+	+	+	+
≥10							

5237

Marine Area E

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	+	+	+			1
1-1.5	11	7	2	1	+	+	1
2-2.5	5	11	7	3	1	+	1
3-3.5	2	6	6	2	1	+	+
4-5.5	1	4	5	3	2	1	+
6-7.5	+	1	1	2	1	1	+
8-9.5		+	+	+	+	+	+
≥10							

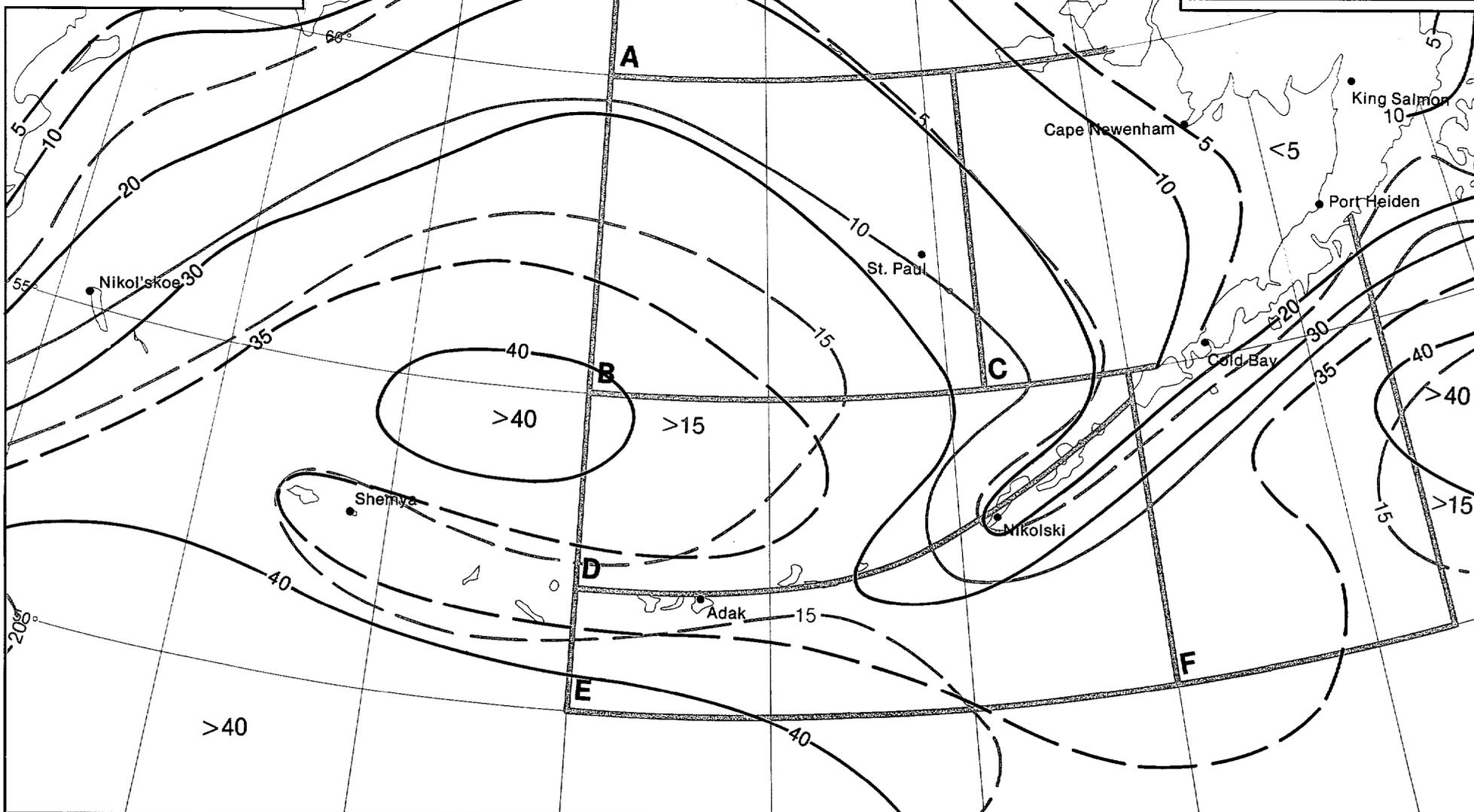
4229



Marine Area F

WAVE HEIGHT (MTRS)	PERIOD (sec)						
	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	+	+	+			2
1-1.5	13	6	2	1	+	+	1
2-2.5	8	10	6	2	1	+	1
3-3.5	3	7	5	2	1	+	+
4-5.5	1	5	5	3	1	1	+
6-7.5	+	1	1	1	1	1	+
8-9.5		+	+	+	+	+	+
≥10							

5955



20 Wave Height and Period
Wave Height ≥ 12 and ≥ 20 Feet

December