

Map 18. Wave height ≤ 3 feet and ice concentration $\geq 5/10$ ths

BLACK LINE - Percent frequency of wave height ≤ 3 feet (1 meter).

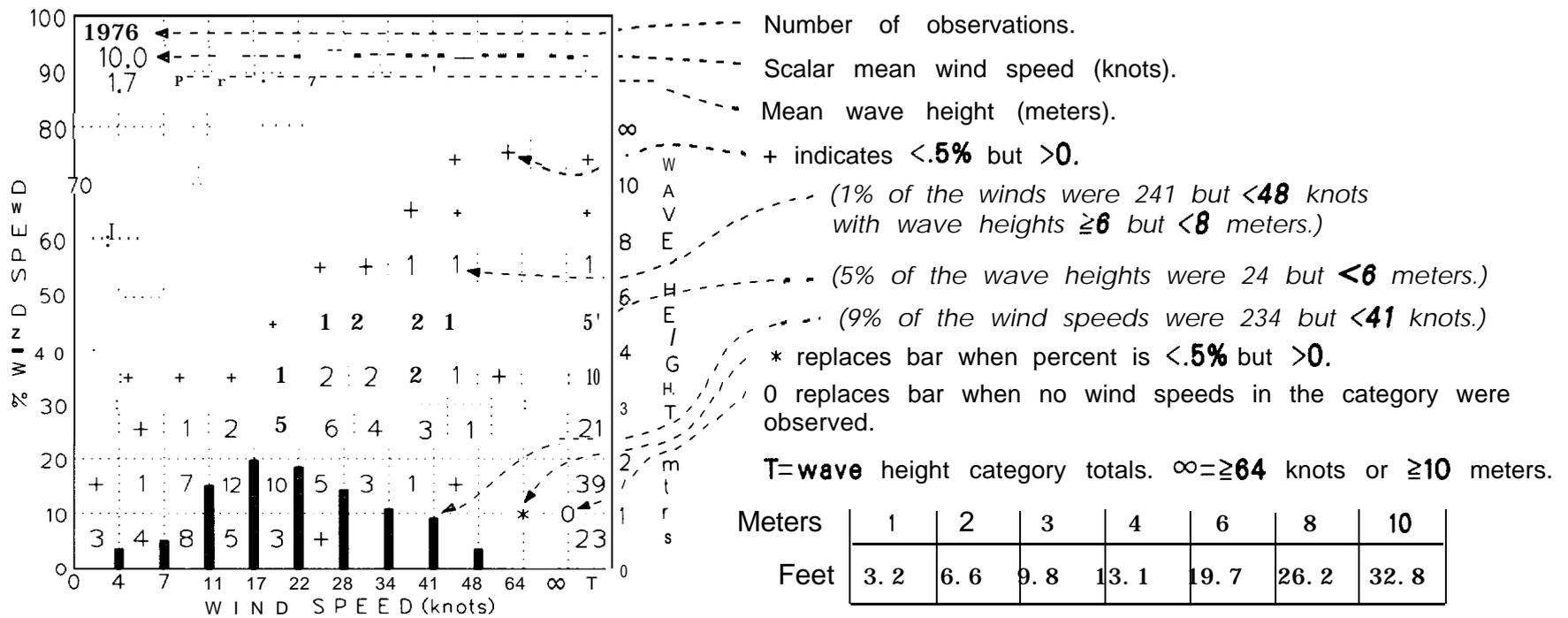
BLUE LINE - Percent frequency of ice concentration $\geq 5/10$ ths.

Albers Equal-Area Conic Projection

Graphs: Wave height/wind speed

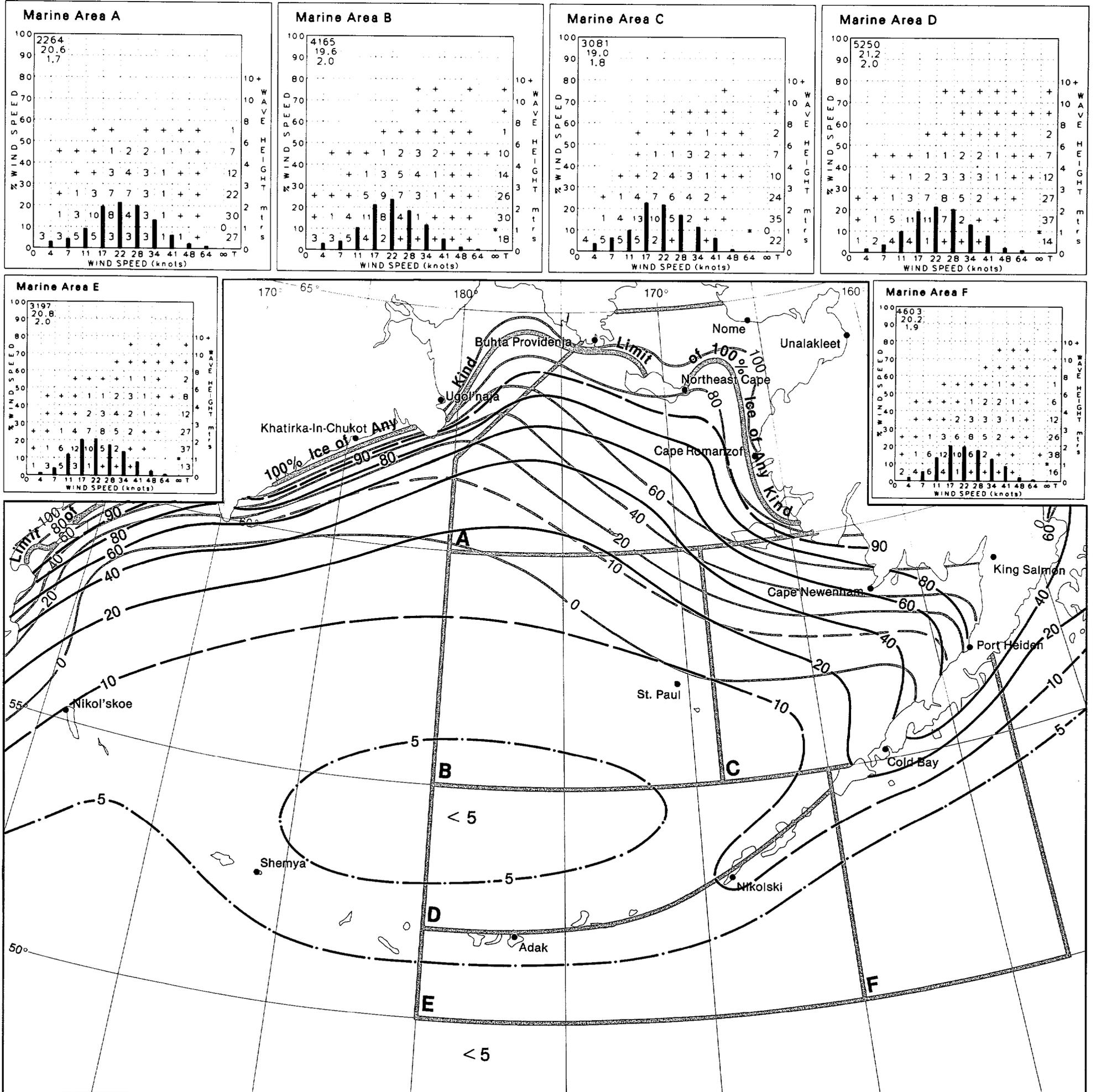
Wind speed frequency: Bars are percentages for each wind speed category.

Wave height frequency: Numbers are percentages of wave height for various wind speeds.



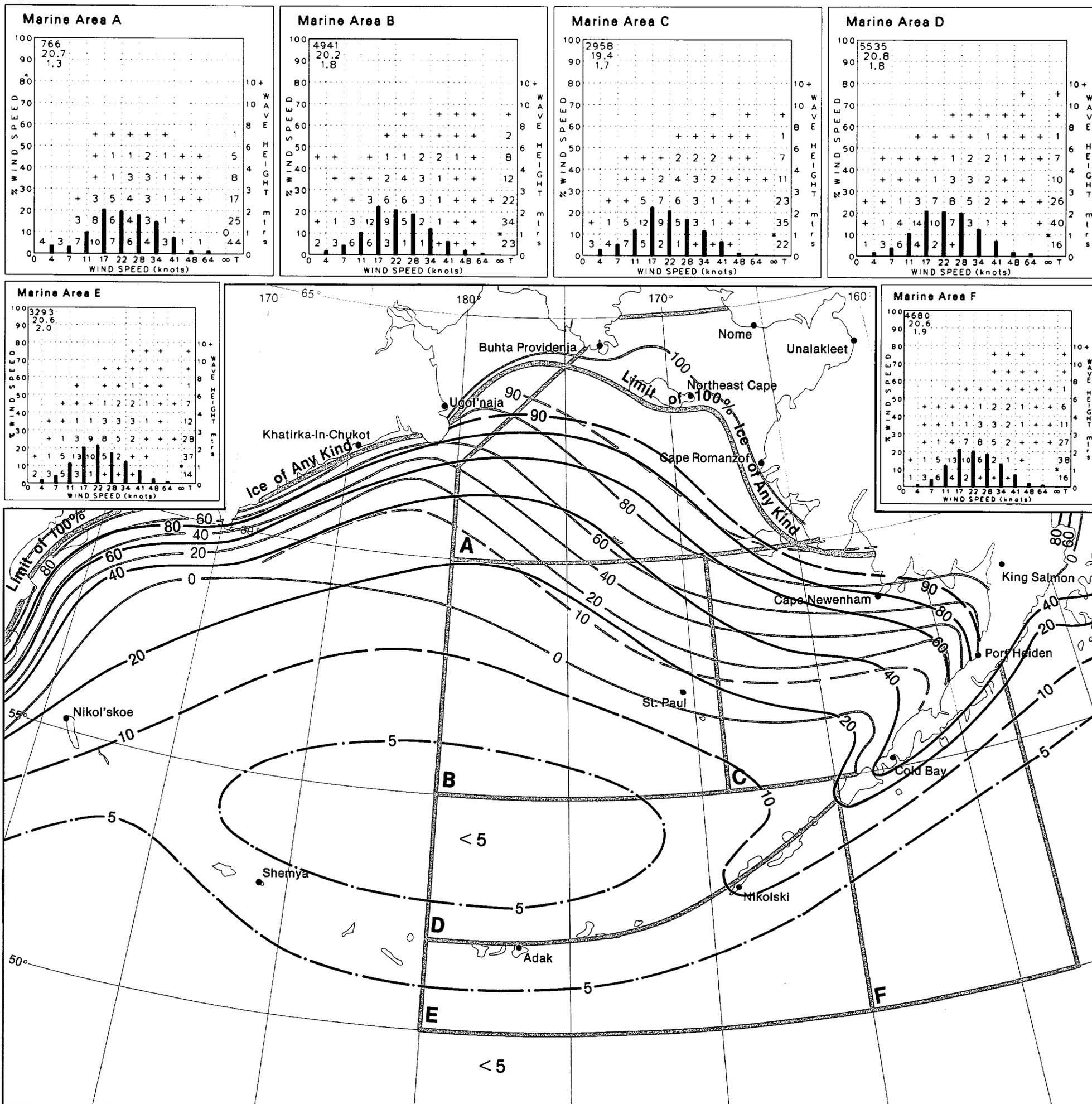
Wave heights have been recorded in a consistent quantitative code only since the late 1940's. The reluctance of many observers to take wave observations in the earlier years and the difficulty in estimating waves, especially in confused seas, make wave observations one of the least commonly observed elements. The observations are also subject to biases in wave characteristics. A correction factor of approximately 10% was suggested by Hogben and Lumb (1967) and has been verified by preliminary work at NCDC where Quayle (1980) found that generally the heights are too low, the periods too short, and sea-swell discrimination poor. The data in this study have not been adjusted for the suspected biases. The marine observations were processed through quality control procedure where an internal check was made between wind speed and sea height. The sea and swell data were then arrayed and suspicious outliers deleted. The higher of the sea wave or swell was selected for summarization. If the heights were equal, the wave with the longer period was selected.

Wave height isopleth presentations in Sets 18 and 19 are for a generally nonhazardous sea condition; i.e., wave heights less than 3 feet and 8 feet, respectively. Isopleth presentations in Set 20 define much more hazardous sea conditions; i.e., wave heights equal to or greater than 12 and 20 feet. Refer to the texts of Sets 14 and 18-21 for complete information on waves, and to the introductory text of Section II for sea ice information.



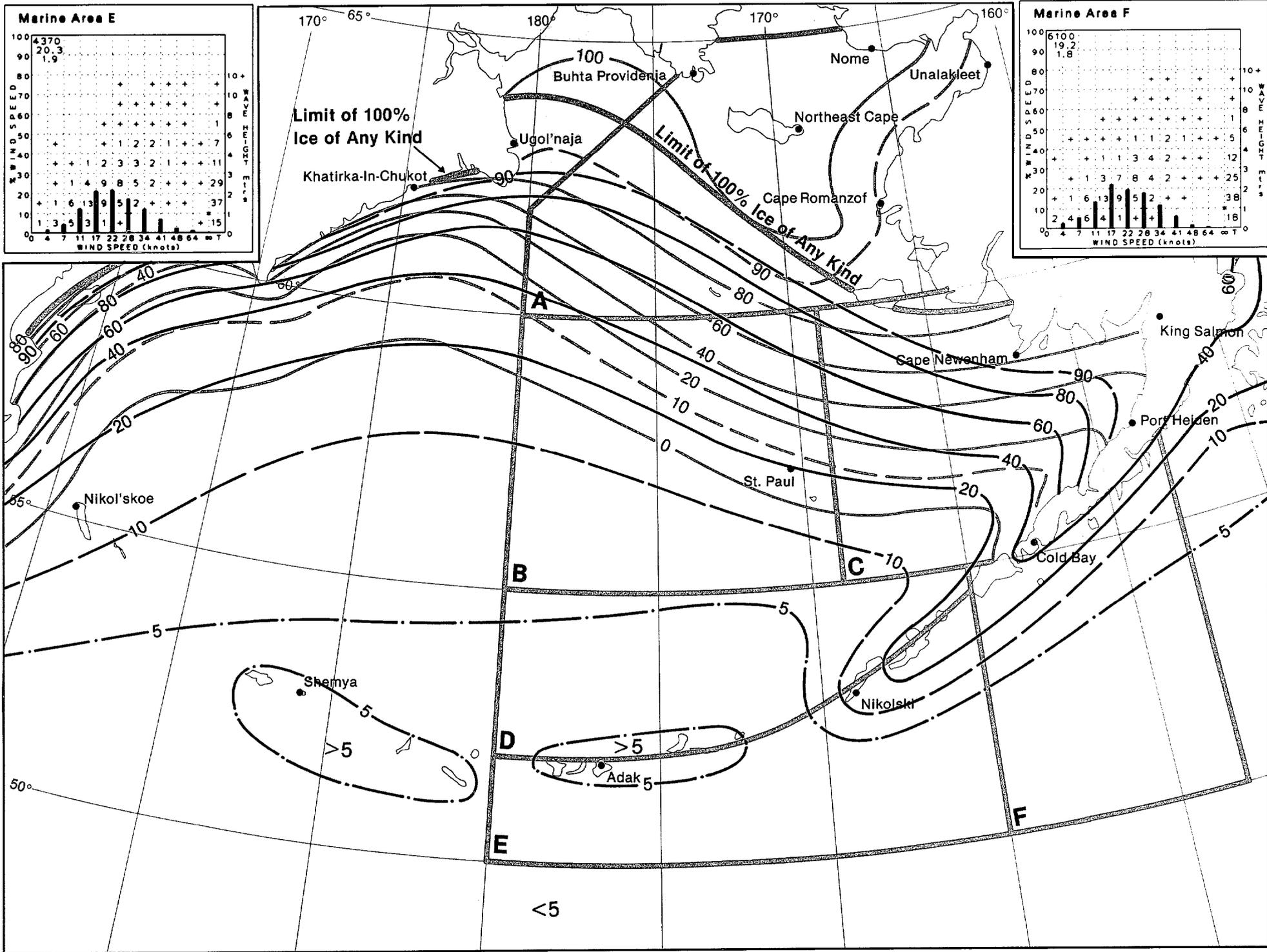
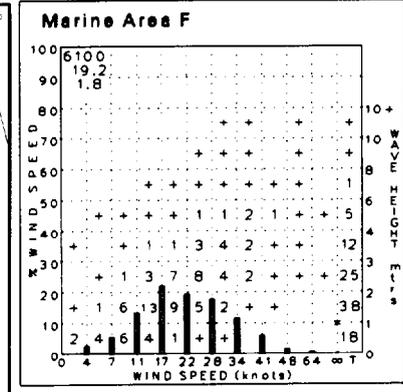
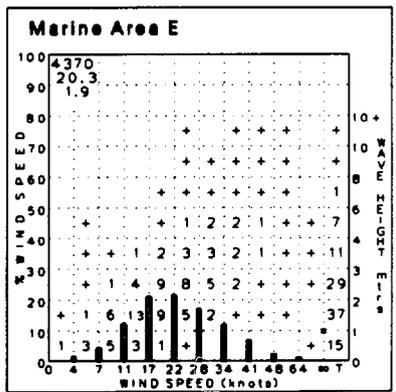
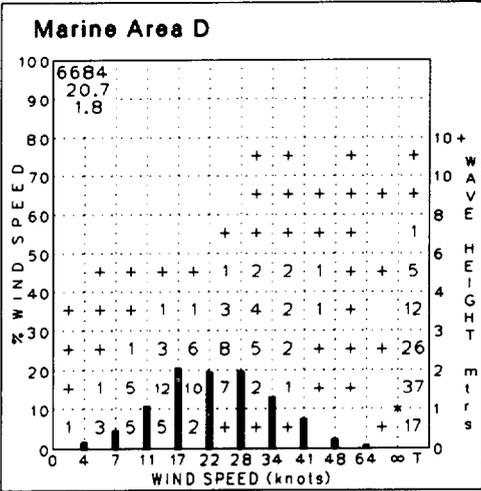
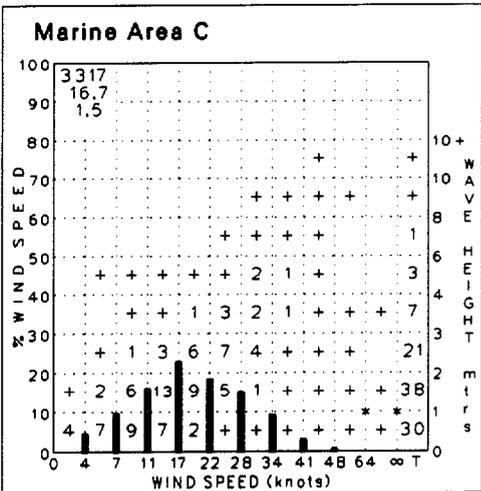
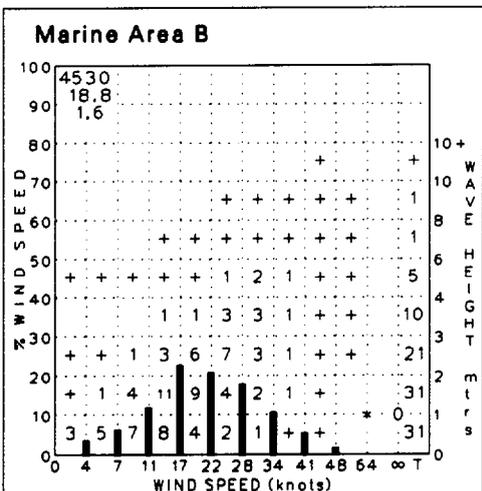
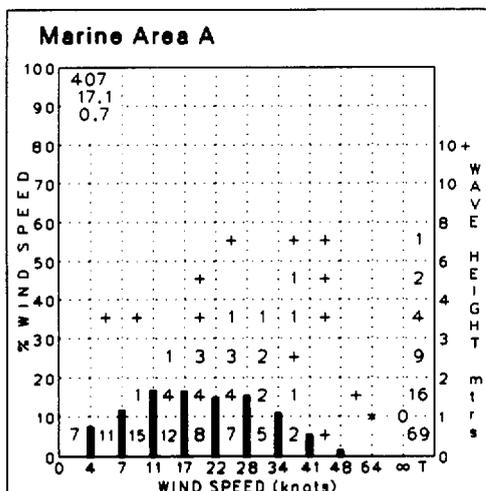
January

18 Wave Height and Wind Speed
Wave Height ≤ 3 Feet and Ice $\geq 5/10$ ths

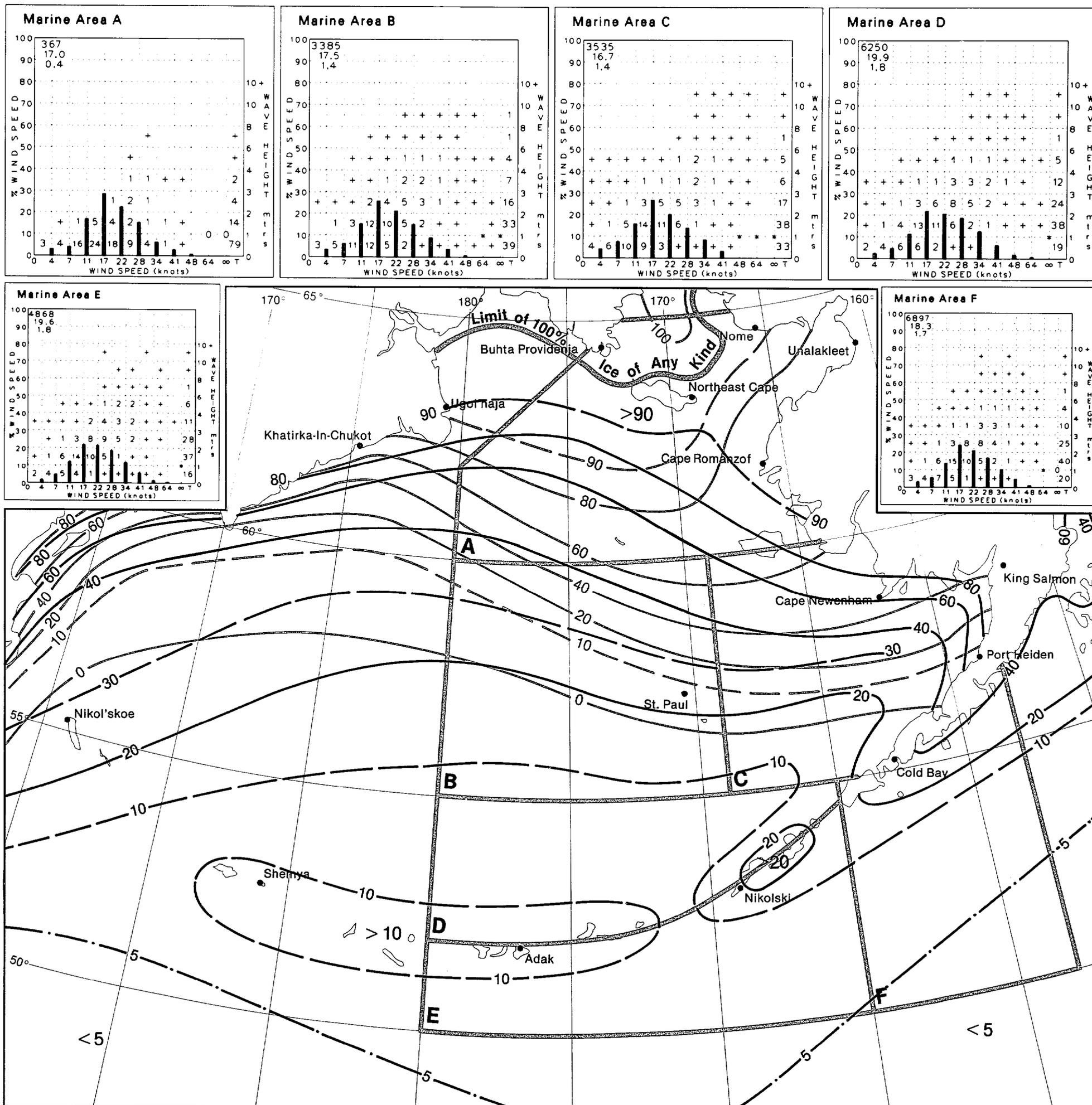


18 Wave Height and Wind Speed
 Wave Height ≥ 3 Feet and Ice $\geq 5/10$ ths

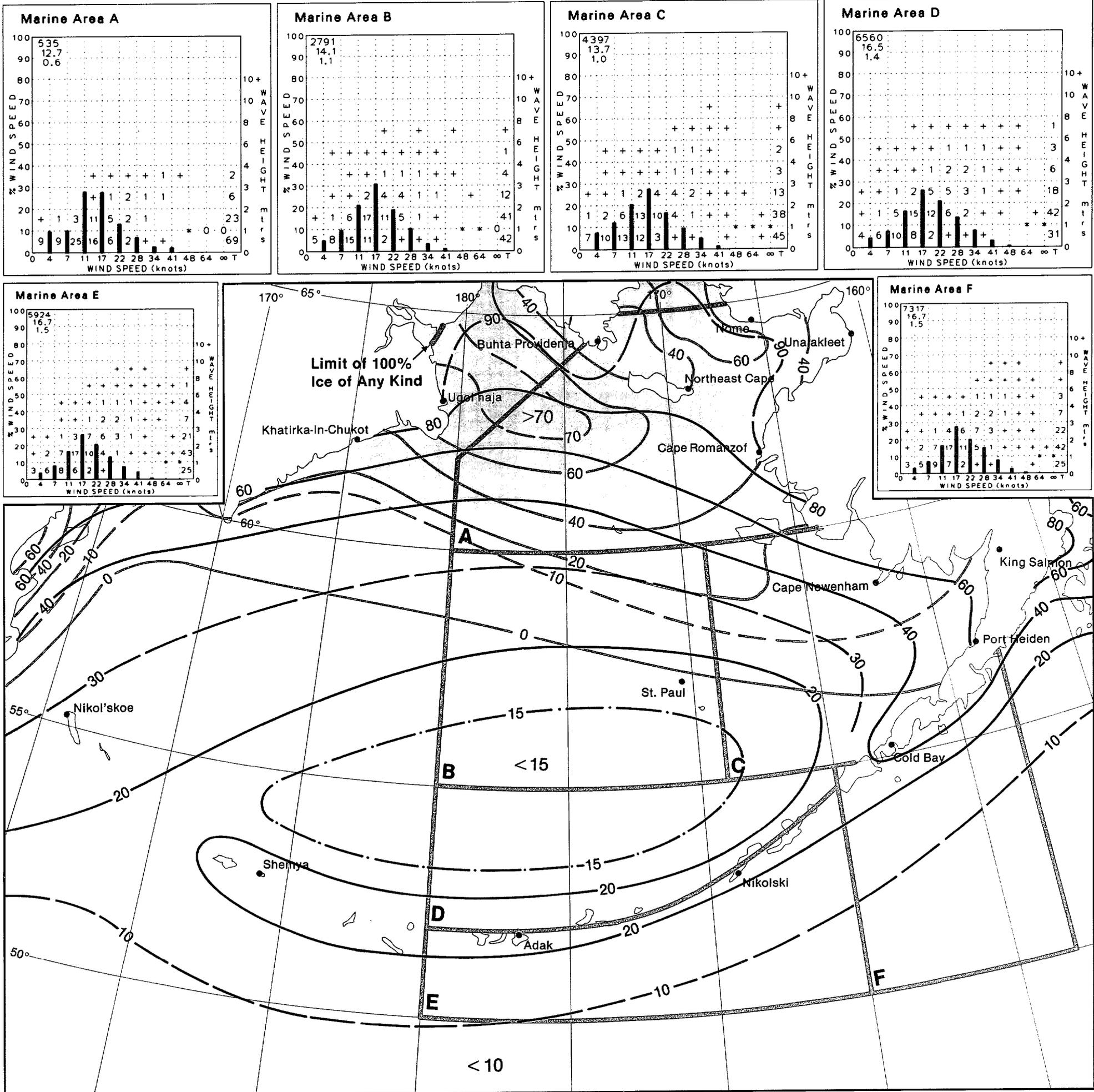
February



March
 18 Wave Height and Wind Speed
 Wave Height ≥ 3 Feet and Ice $\geq 5/10$ ths

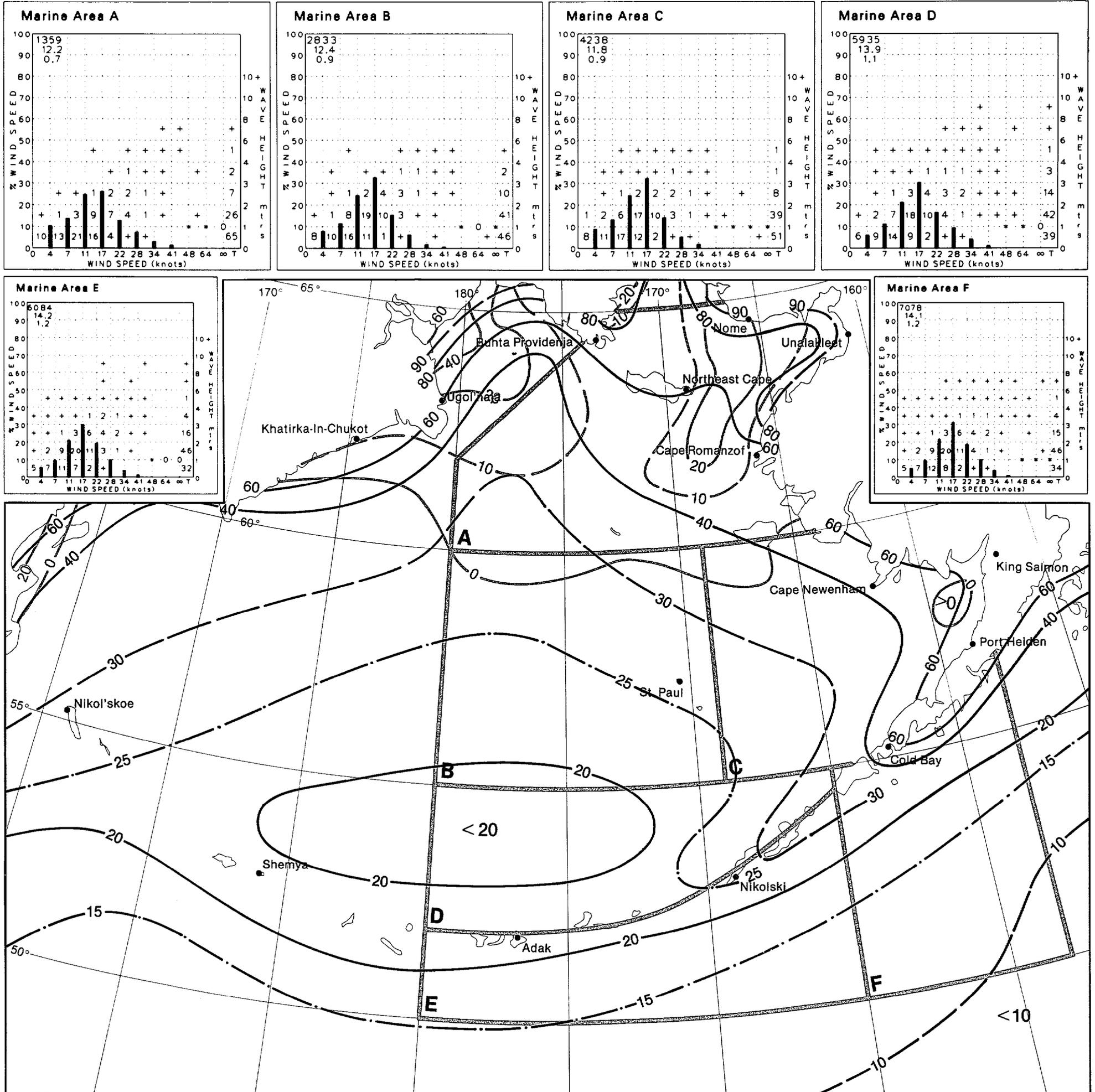


18 Wave Height and Wind Speed
 Wave Height ≤ 3 Feet and Ice $\geq 5/10$ ths

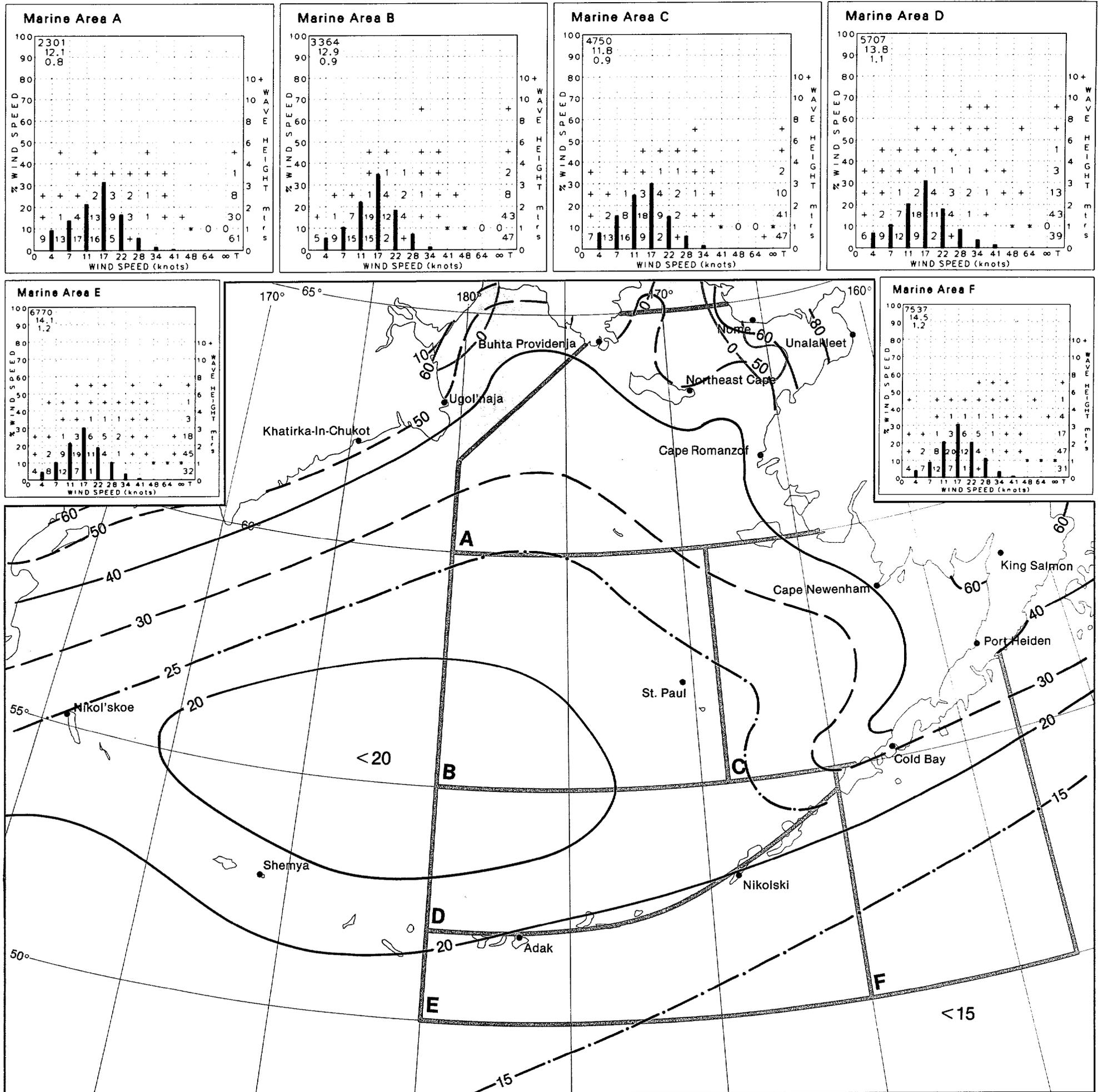


May

18 Wave Height and Wind Speed
Wave Height ≥ 3 Feet and Ice $\geq 5/10$ ths

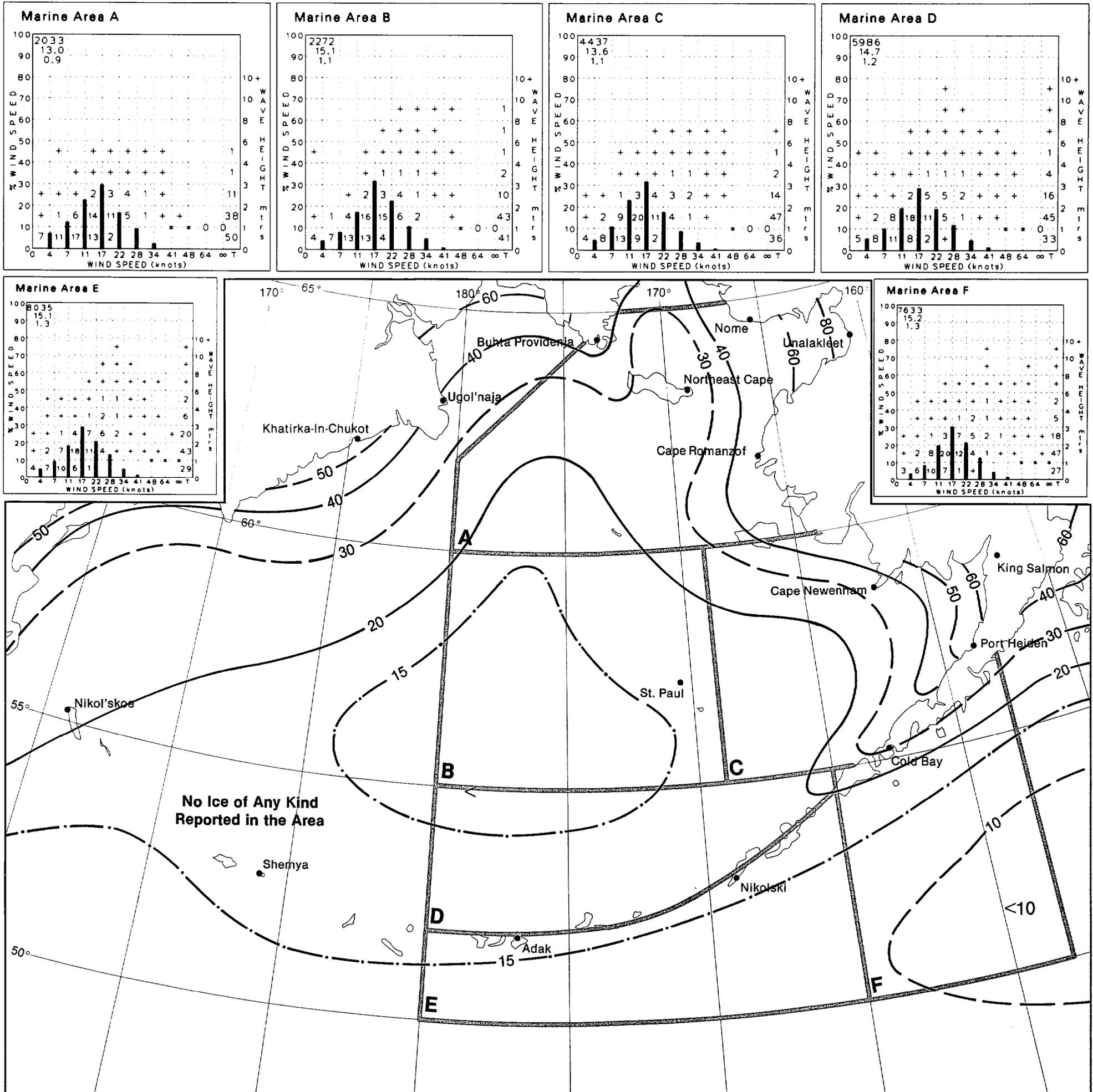


18 Wave Height and Wind Speed
Wave Height ≤ 3 Feet and Ice ≥ 5/10ths



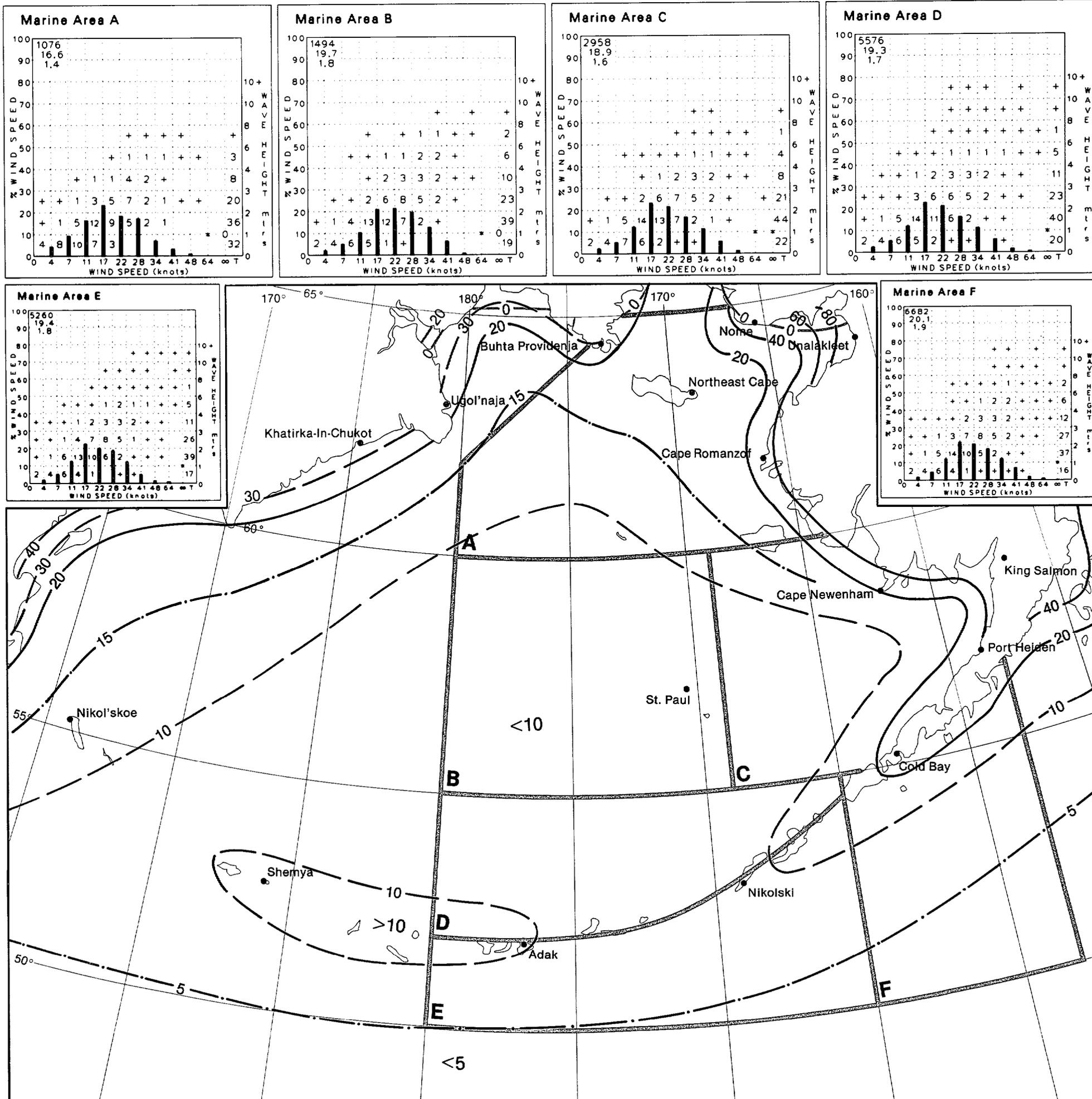
July

18 Wave Height and Wind Speed
Wave Height ≤ 3 Feet and Ice $\geq 5/10$ ths



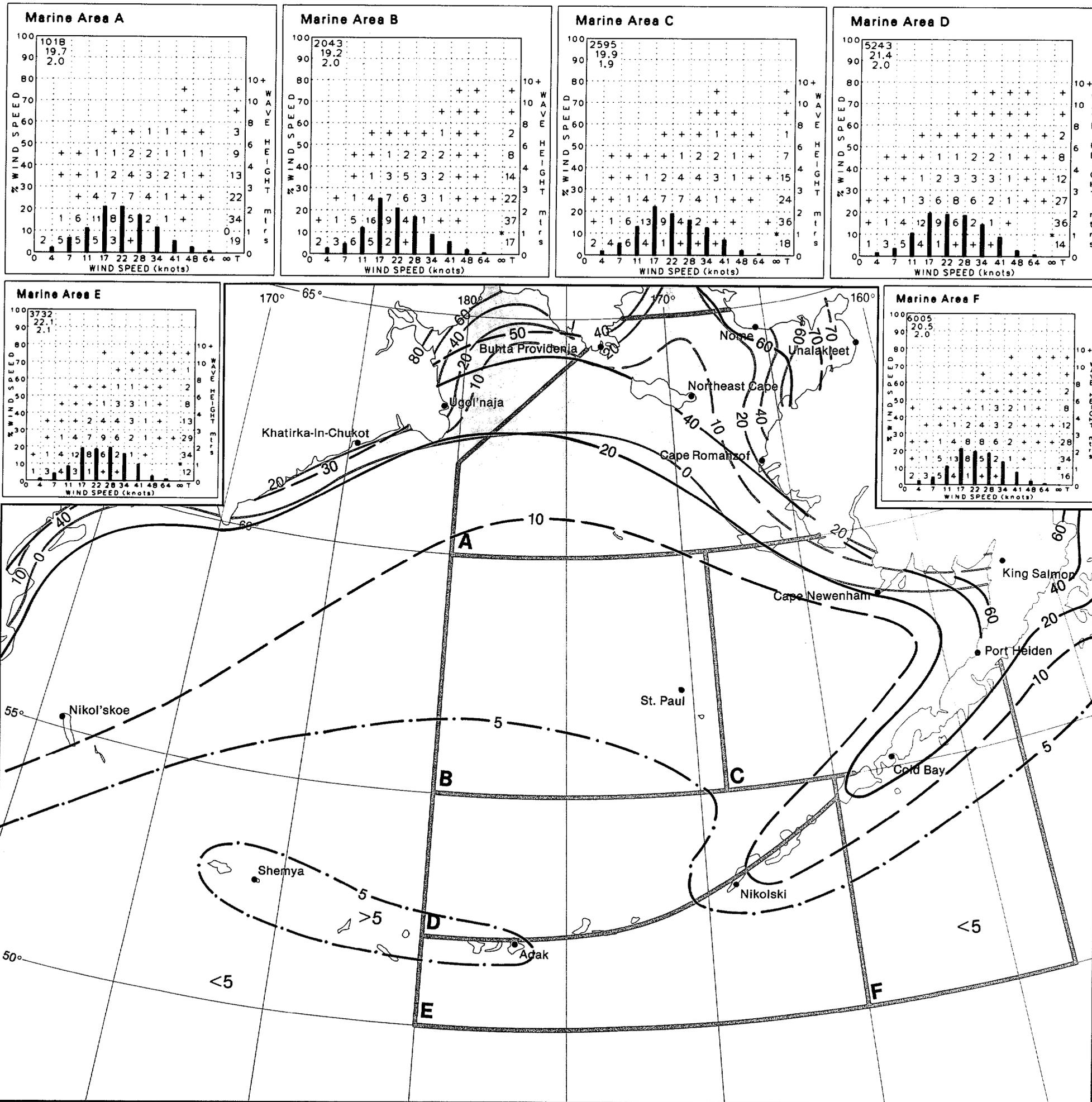
18 Wave Height and Wind Speed
Wave Height ≤ 3 Feet and Ice $\geq 5/10$ ths

August



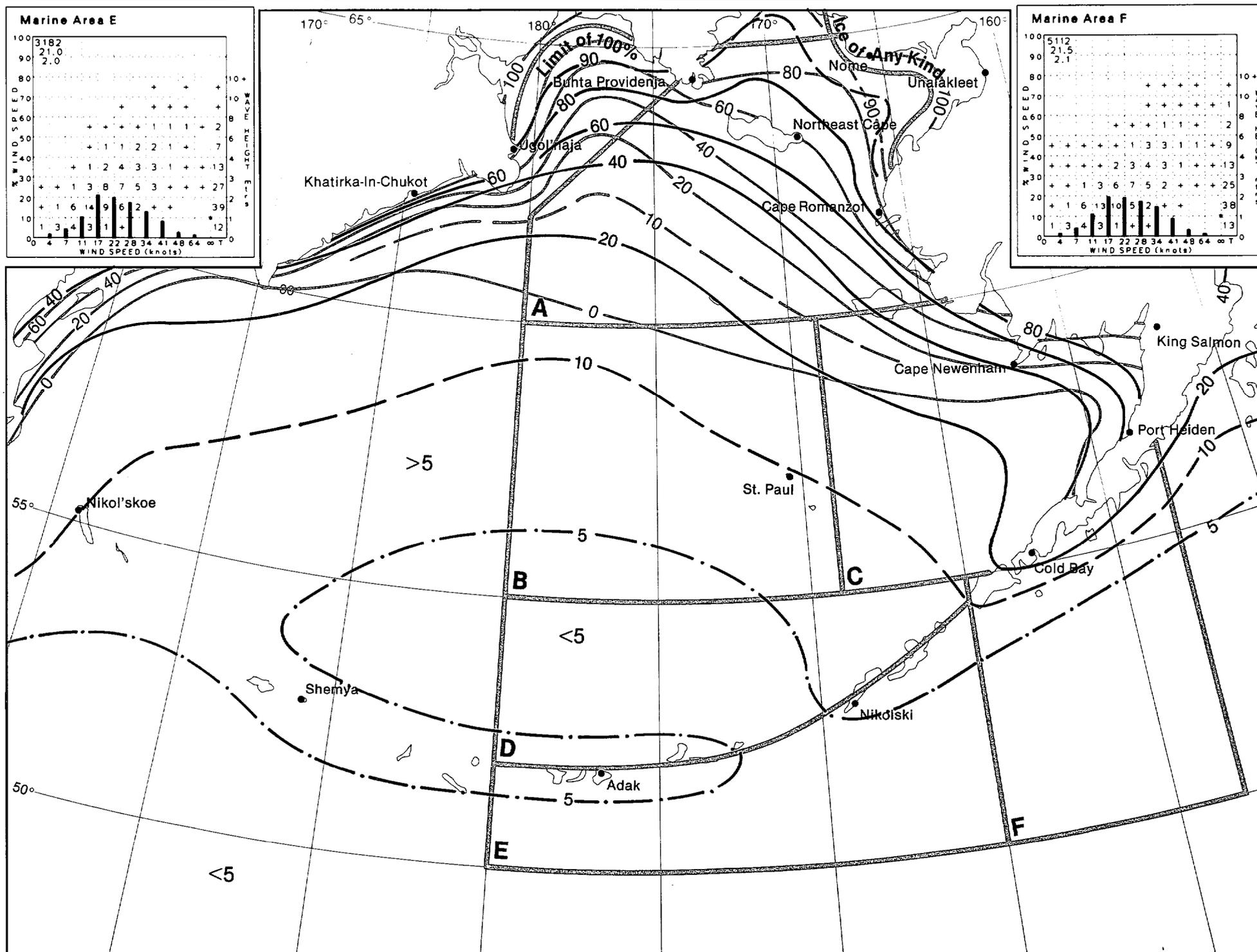
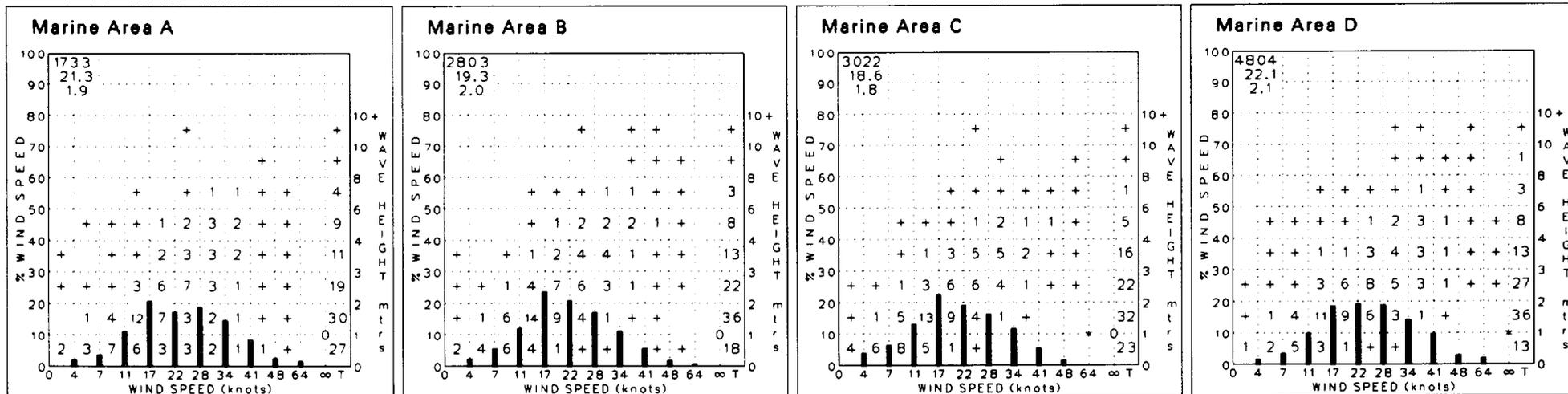
18 Wave Height and Wind Speed
Wave Height ≤ 3 Feet and Ice $\geq 5/10$ ths

October



November

18 Wave Height and Wind Speed
 Wave Height \geq 3 Feet and Ice \geq 5/10ths



18 Wave Height and Wind Speed
 Wave Height ≥ 3 Feet and Ice $\geq 5/10$ ths