ANNEX 5

Ice Accretion Applicable to all Types of Craft

1 Icing allowances

- 1.1 For craft operating in areas where ice accretion is likely to occur the following icing allowance should be made in the stability calculations:
 - .1 30 kg/m2 on exposed weather decks and gangways;
 - .2 7.5 kg/m2 for projected lateral area of each side of the craft above the water plane;
 - .3 the projected lateral area of discontinuous surfaces of rail, sundry booms, spars (except masts) and rigging and the projected lateral area of other small objects should be computed by increasing the total projected area of continuous surfaces by 5 per cent and the static moments of this area by 10 per cent.
 - .4 reduction of stability due to asymmetric ice accumulations in cross-structure.
- 1.2 For craft operating in areas where ice accretion may be expected:
 - .1 Within the areas defined in 2.1, 2.3, 2.4 and 2.5 known to have icing conditions significantly different from those in 1.1, ice accretion requirements of one-half to twice the required allowance may be applied.
 - .2 Within the area defined in 2.2, where ice accretion in excess of twice the allowance required by 1.1 may be expected, more severe requirements than those given in 1.1 may be applied.
- 1.3 Information should be provided in respect of the assumptions made in calculating the condition of the craft in each of the circumstances set out in this Annex for the following:
 - .1 duration of the voyage in terms of the period spent in reaching the destination, and returning to port; and
 - .2 consumption rates during the voyage for fuel, water, stores and other consumables.

2 Areas of icing conditions

In the application of 1 the following icing areas should apply:

.1 The area North of latitude 65ø30'N, between longitude 28øW and the West coast of Iceland; North of the North coast of Iceland; North of the rhumb line running from latitude 66øN, longitude 15øW to latitude 73ø30'N longitude 15øE, North of latitude 73ø30'N between longitude 15øE and 35øE, and East of longitude 35øE, as well as North of latitude 56øN in the Baltic Sea.

- .2 The area North of latitude 43øN bounded in the West by the North American coast and the East by the rhumb line running from latitude 43øN, longitude 48øW to latitude 63øN, longitude 28øW and thence along longitude 28øW.
- .3 All sea areas North of the North American Continent, West of the areas defined in subparagraphs .1 and .2 of this paragraph.
- .4 The Bering and Okhotsk Seas and the Tartary Strait during the icing season.
- .5 South of latitude 60øS.

A chart to illustrate the areas is attached.

3 Special requirements

Craft intended for operation in areas where ice accretion is known to occur should be:

- .1 designed to minimise the accretion of ice; and
- .2 equipped with such means for removing ice as the Administration may require.

