



TEXT-FIG. 2.—A—Rainfall at Musselburgh, Dunedin, for the year 1957. Number of rainy days per month shown in block form and inches of rain per month indicated by broken lines. (By courtesy of N.Z. Met. Dept.) B—Sunshine and temperature at Musselburgh, Dunedin, for the year 1957. Number of hours of sunshine per month shown by a solid line, maximum and minimum air temperatures shown by broken lines. C—1, Monthly average air (.....) temperatures and surface water (—) temperatures at Hoopers Inlet from February to October, 1957. 2, Monthly average surface water temperatures in Otago Harbour for 1957 and 1958. (By courtesy Portobello Marine Biological Laboratory.)

Water Temperature

During 1957 the temperature of the water in the shallow inlet varied from 20.5°C in February to 6°C in July, but it is interesting to note that during February and March temperatures were higher than air temperatures (Text-fig. 2C). Comparison with the surface water temperatures in the deeper waters of the Otago Harbour shows that those of the inlet rise well above those of the harbour during February and March and remain higher throughout most of the year. This is clearly indicated in Text-fig. 2C, which gives surface water temperatures for both Hoopers Inlet and the Portobello Marine Station, Otago Harbour.