

position by Sumner's method by projection. He must also be conversant with the use of Mercator's chart, and be able to find, on either a *true* or *magnetic* chart, the course to steer, and the distance from one given position to another; to find the ship's position on the chart from *cross* bearings of two objects; from two bearings of the same object, the course and distance between the bearings being given; and also to find the distance of the ship from the object at the time of taking the second bearings.

A Master will also be required to find the true bearing of the sun from the "Time Azimuth Tables," and with the variation given compute the deviation, and work out the same problems, on either a *true* or *magnetic* chart as are required from the Only or First Mate. He will also be required to find the course to steer by compass in order to counteract the effect of a given current, and to find the distance the ship will make good towards a given point in a certain time, and to *work out practically* the correction to apply to soundings taken at a given time and place, to compare with the depth marked on the chart.

