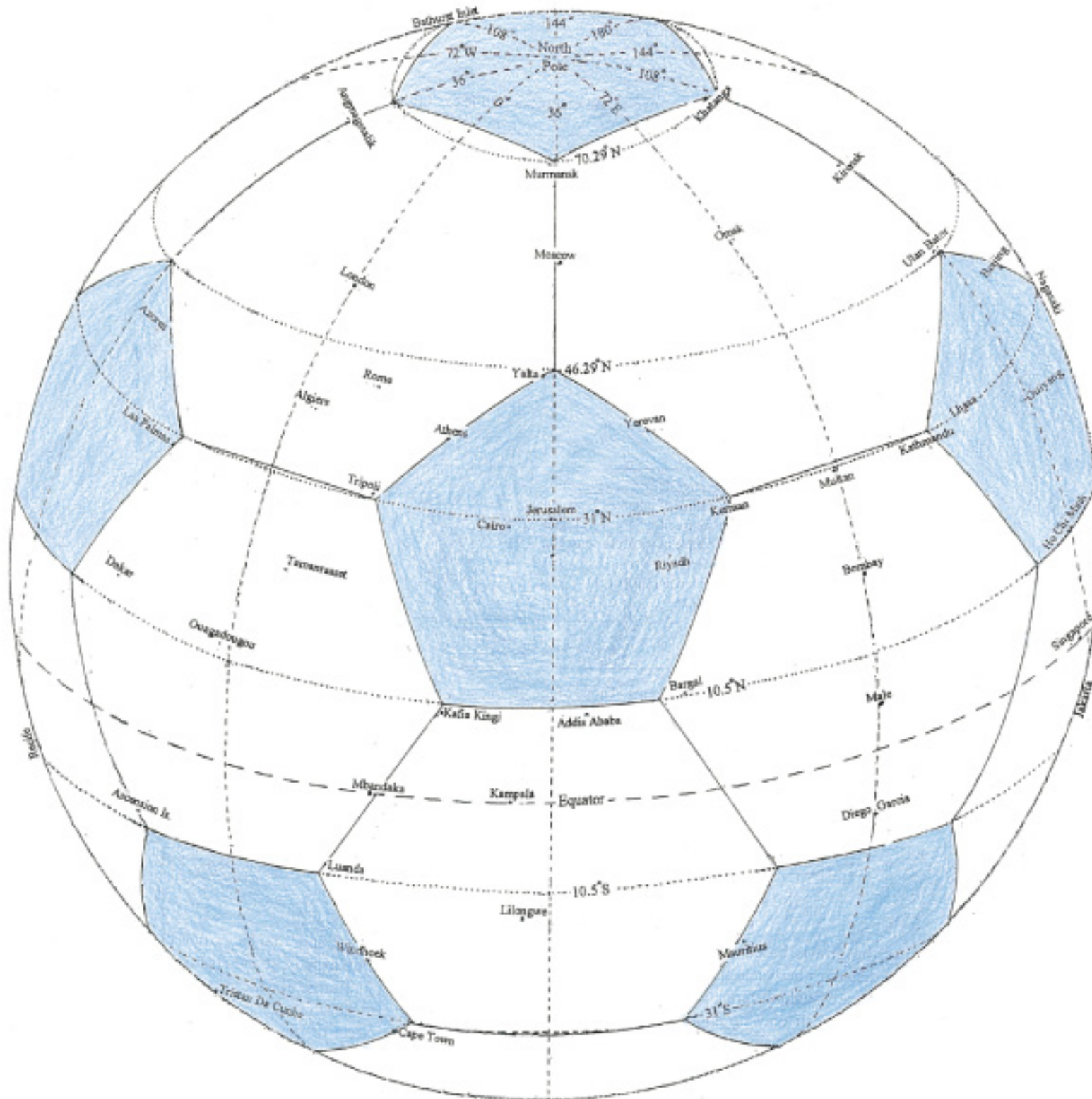


### If the earth was a football

The diagram below shows the earth as a perfectly spherical football. Notice how well the latitudes and longitudes align with the symmetry of the geometric design of the football. The hexagon-pentagon network serves as an instant scale for determining distances and areas. This objective is facilitated with the aid of the "hex-pen" grid. Since the places mentioned are not exactly at the strategic points of the grid, the distances between any two places are only approximate with reference to the arc-angle distances between them. The strategic points are the centres of the hexagons and pentagons, their apices and the mid-points of their sides, which form the tips of arc-angles mentioned in the table in the opposite page. The distances between some of the places mentioned are given in the table in the next article in an approximate manner, taking into context the earth's actual oblate-spheroid shape. The places mentioned along the periphery (Bathurst Inlet, Recife, Jakarta and Nagasaki) are within the horizontal zone of the map. The three preceding articles are informative in understanding the football globe better.

The greatest distance within a pentagon is between 4187.50 and 4194.53 kms. and its area is about 12,084,291.72 sq. kms.  
The greatest distance within a hexagon is between 5334.40 and 5343.35 kms. and its area is about 18,252,901.09 sq. kms.



If the football design shown in the diagram was made to ensphere a globe like a transparent jacket, and capable of being rotated to any position over the globe, then the distances of a host of other places and the areas of other places can also be instantly approximated. It is interesting to note how well the football globe shown above correlates with the map of the insphered hexpenhedron (mapped out football) and with that of the "hex-pen" grid superimposed onto the antipodes map.