

That the true circumference of the earth at the equator is 180,000 stades, at the rate of five hundred stades to a degree according to his calculation, and counting eight stades per mille, are 22,500 miles, which are 5,625 leagues at the rate of four miles per league in Castilian reckoning, each degree coming to fifteen leagues and two hundred and twenty-five parts of three hundred and sixty. And in the same Book, chapter five, he says that the circle of the tropics is 164,672 stades, which are 20,584 miles, and 5,146 leagues, making for each degree fourteen leagues and one hundred and six parts of three hundred and sixty. Moreover, according to Strabo, Alfragano, Ambrosi, Macrobi, Teodosi and Eurlsthenes, the said circumference of the earth is 252,000 stades, the which 252,000 stades, at the rate of eight stades per mille, are 31,500 miles, and at four miles per league, are 7,875 leagues. Item :—By the circle of the tropics the circumference is 7,204 leagues and seventy-two thousand parts of one hundred and eighty thousand; and I decided it by the rule of three, saying if 22,500 miles at the equator according to Ptolemy give me 7,875 for the said equator, what will 20,584 miles of the circle of the tropics give me? And in this way you will arrive at the above 7,204 and a half leagues almost, according to the said learned men.

The said circle of the tropics is shorter than the equinoctial circle by $670\frac{1}{2}$ leagues, which is, at four miles per league, 2,682 miles, according to the above calculation summed up and proved throughout. That is, however, calculating according as the above-mentioned learned men direct, 700 stades to a degree; although Ptolemy allows no more than 500 stades to a degree, as above said in the already mentioned book, *de situ orbis*.

11. Item :—It is to be noted that on the equinoctial circle each degree has twenty-one leagues and five parts of eight, and on the tropics each degree has twenty leagues and four parts of three hundred and sixty, according to the said learned men.

12. Starting from Cape Verde on a westerly line the terminus three hundred and seventy leagues comprises eighteen degrees, inasmuch as the said line or parallel is fifteen degrees distant from the equator, and therefore the degrees each of them contains twenty leagues and five parts of eight, according to the said learned men.

13. From Cape Verde to the Grand Canary Island are 232 leagues of four miles per league, and it lies from the said Canary on a meridian almost at a third of the "lebelx" or southwestern quarter, and is distant fifteen degrees from the equator, and the middle island of those which lie in front of Cape Verde lies in the quarter of the West towards the Northwest 117 leagues (away), which are equal to five degrees and two-thirds; and from this middle island commences the terminus of the 370 leagues towards the West which terminus is eighteen degrees towards the West from the said middle island, and on that parallel each degree is twenty leagues and five parts of eight, counting 700 stades to a degree, according to the above cited learned men, although Ptolemy uses a different calculation.

14. And according to Ptolemy, each degree of the equator contains fifteen leagues and two-thirds, and of the tropics fourteen leagues and one-third, and on the parallel of Cape Verde fourteen leagues and two-thirds, and therefore the 370 leagues upon that parallel are understood as extending to the West twenty-five degrees and one third nearly.

15. And the Admiral says in his letter that Cape Verde is nine and a quarter degrees distant from the equator. According to Ptolemy, I see him allowing fifteen and two-thirds leagues to a degree; nevertheless, I decide with the other learned men as to the distance of the said islands from the equator. The division into stades, although the number given by Ptolemy is different from that given by the above cited learned men, Strabo, Alfragano, Macrobi, Teodosi, and Eurlsthenes, they are all essentially in agreement, because Ptolemy makes use of longer stades; so that his 180,000 stades are equal to the 252,000 stades of the above mentioned learned men for the equinoctial line as above said.