

Table 1 - Early Determinations of Earth's Size & Shape

Investigator	Date	Approximate Meridian Quadrant Arc Length, Meters	Flattening
Eratosthenes	200 B.C.	11,560,000	-
Willebrord Snellius	1615 A.D.	9,660,000	-
Jean Picard	1670	10,009,081	-
Cassini Brothers	1700	10,042,652	- 1:66
French Academy of Sci.	1750	10,000,157	1:310.3
Delambre & Mechain	1800	10,000,000	1:334

Table 2 - Ellipsoids & Area Where Used

Name	Semi-major Axis, m	1/f	Used in
Everest 1830	6,377,267.345	300.8017	India
Bessel 1841	6,377,397.155	299.1528	China, Japan, and West Germany
Clarke 1866	6,378,206.4	294.9787	North America and Central America
Modified Clarke 1880	6,378,249.145	293.465	Africa
International	6,378,388	297	Europe
Krasovsky 1942	6,378,245	298.3	USSR & others
Australian National 1965	6,378,160	298.25	Australia
South American 1969	6,378,160	298.25	South America

Introduction to Surveying - Mueller/Ramsayer 1978