

CC meeting of the Struve geodetic Arc, Tallinn, 07.09.2016

STRUVE ARC OR STRUVE-TENNER ARC

Tõnu Viik

Tartu Observatory



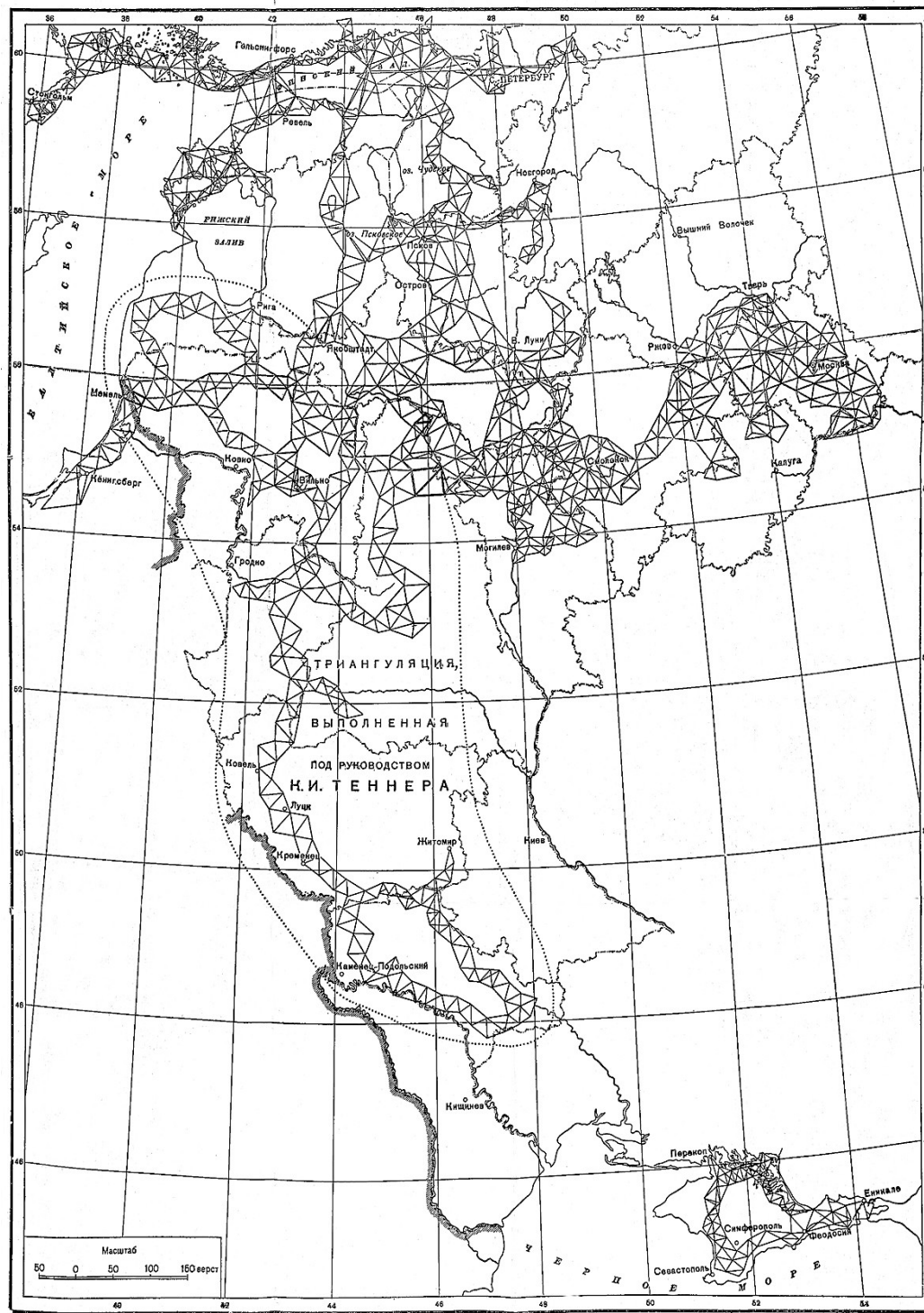
Carl Friedrich Tenner (1783-1859)



The Rõngu manor



Jan Peter Suchtelen



Work done under Tenner's direction



F. G. W. Struve.

1793 - 1864.

Friedrich Georg Wilhelm Struve

The triangulation made under the leadership of C.F. Tenner (1816-1851)

| Site of measurements (beginning and end) | Number of triangles | I class | | II and III class | |
|---|---------------------|-----------------------------|---------------------------|---------------------|---------------------------|
| | | Probable error of the angle | Number of reference marks | Number of triangles | Number of reference marks |
| Vilno (1816-1821) | 119 | 0".62 | 100 | 3020 | 1225 |
| Kurland (1822-1824) | 42 | 0".35 | 42 | 740 | 375 |
| Grodno (1825-1829) | 34 | 0".40 | 34 | 1059 | 554 |
| Minsk (1830-1839) | 56 | 0".73 | 57 | 439 | 215 |
| Volynia and Podolia (1836-1840) | 100 | 0".49 | 97 | 1416 | 544 |
| Kiev (1840-1846) | 78 | 0".41 | 75 | 1432 | 175 |
| Belostok (1843- 1850) | 23 | 0".47 | 24 | 342 | 182 |
| Bessarabia (1846- 1850) | 61 | 0".36 | 58 | 631 | 286 |
| Poland (1845-1851) | 219 | 0".50 | - | 2112 | - |
| Together | 731 | Mean 0".49 | | 11191 | |

Thank you for your attention!