Pure and Applied Geophysics

Erratum to: The Effects of the Earth's Curvature on Gravity and Geoid Calculations HASAN ÇAVŞAK¹

Erratum to: Pure Appl Geophys DOI 10.1007/s00024-011-0353-8

When this article was published online first, unfortunately there have been mistakes in the text and in the legend to Fig. 8.

Opposite of Fig. 3, right column eighteenth line: "in the Cartesian -2.910.6858 km" should read "in the Cartesian -2.910.6838 km".

Legend to Fig. 8, second line: "Spherical 4.496580E, 4.496580N" should read "Spherical 4,49658°E, 4,49658°N".

Unfortunately, an error occurred in Fig. 4 and Fig. 9. The correct Fig. 4 and Fig. 9 are given on the next page.

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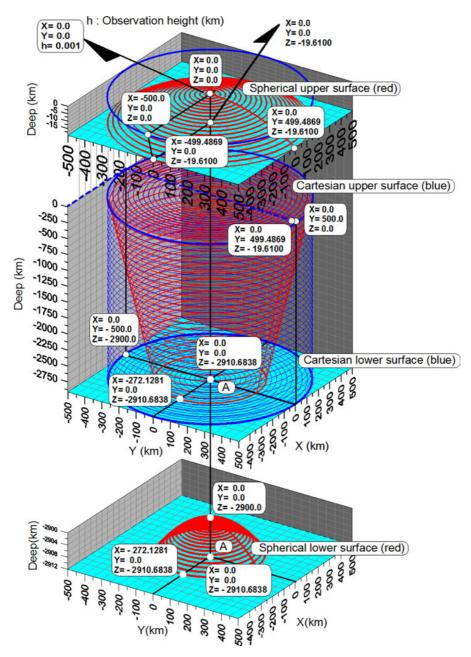


Figure 4

Model geometry of the cylinder. It can be seen how the cylinder in Cartesian coordinates (*blue*) is tapered into spherical coordinates (*red*) with the depth to the Earth's central point. Density difference of the cylinder: -0.2 g/cm^3 . Cartesian radius of the upper and lower surface: 500 km. Cartesian and spherical depth of the *upper surface* 0 km. Cartesian and spherical depth of the *lower surface* -2.900 km. Spherical radius of the *upper* and *lower surface* 4.49658° . Spherical radius of the upper surface from $4.49658^\circ = 500 \text{ km}$ transformed into Cartesian is 499.4869 km (*red*). Spherical radius of the *lower surface* from -2.900 km transformed into Cartesian -2.910.6838 km (*red*). 1° has been set to 111.19562 km

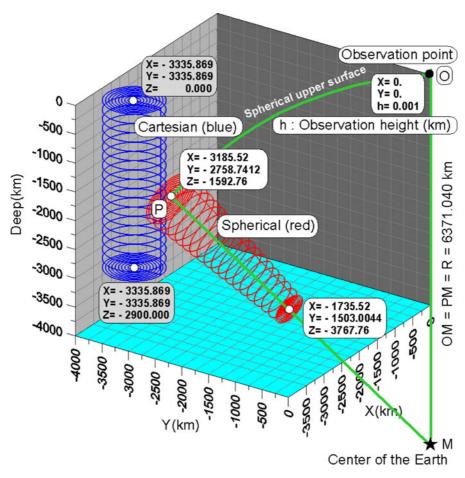


Figure 9
Position of the *spherical cylinder (red)* to the observation point. Spherical 30°E, 30°N. Cartesian 3,335.869 km E, 3,335.869 km N. (Only for demonstration. No gravity calculation)

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