**Physical Geodesy Lab3: Gravity and Coriolis accelerations**

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**Task1: Gravity, gravitation, and centrifugal accelerations**

1.

1.1 Gravitational potential *V*

1.2 Centrifugal potential

1.3 Gravity potential *W*

1.4 Gravitational attraction *a*

1.5 Gravity attraction *g*

Centrifugal attraction

Gravity attraction ***g***

1.6 Disturbance of the direction

1.7 Disturbance of the attraction

2.

2.1 Disturbance of the direction

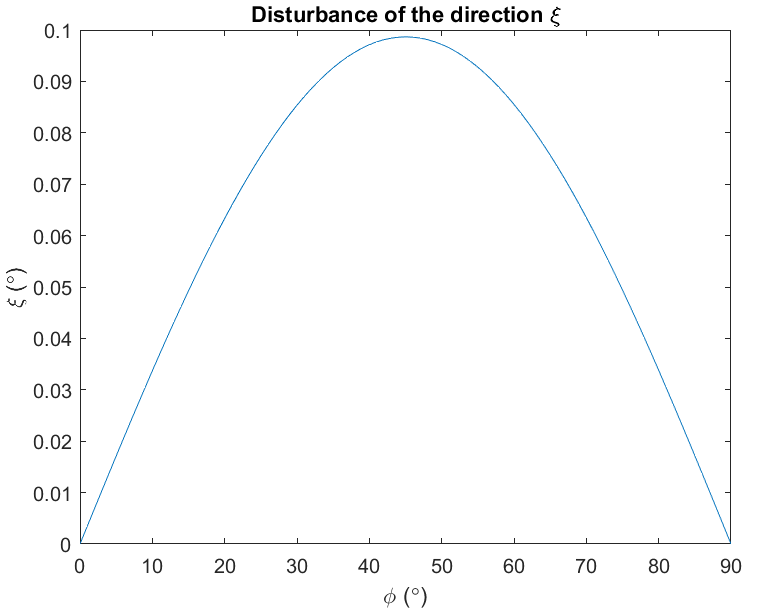


Fig 2.1

2.2 Disturbance of the attraction

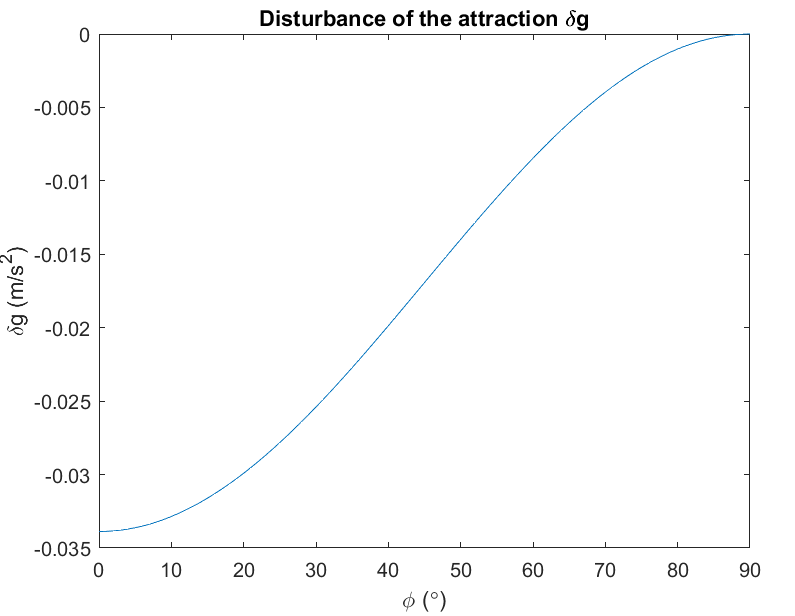


Fig 2.2

2.3 Centrifugal potential

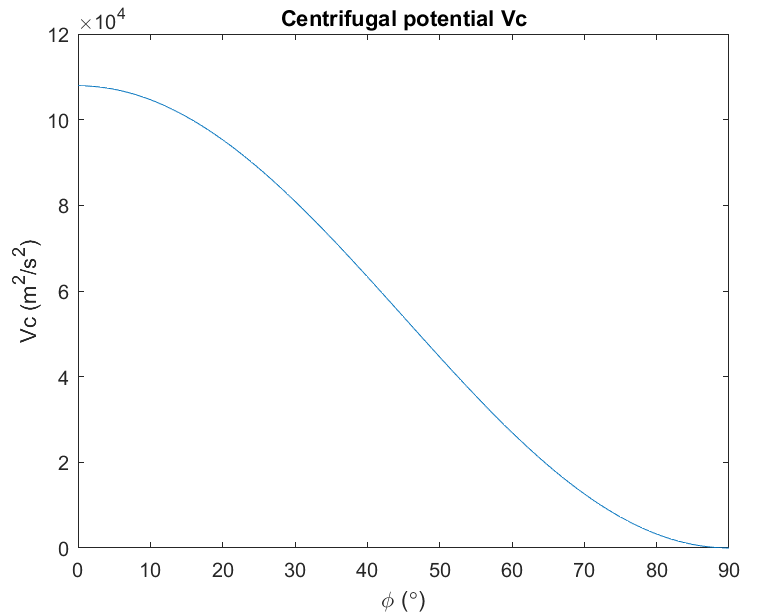


Fig 2.3

**Task 2: Eotvos correction**

3.1 Coriolis acceleration

East-West:

North-South:

3.2 Eotvos correction

East-West:

North-South: