## Gravitational blue shift of EM radiation from a stationary clock in the non-rotating Earth centred frame of reference.

" $r$ " is the distance from the clock to the centre of the Earth. " $R$ " is the radius of the Earth. The clock transmits a frequency 1 Hz , "rate" is the frequency received on the ground. F/Fo is the gravitational force on the clock relative to the force on a clock on the ground.

| $r$ | rate | $F / F o$ |
| :---: | :---: | :---: |
| $10 R$ | 1.000000000626 | 0.0100 |
| 9R | 1.000000000618 | 0.0123 |
| 8R | 1.000000000608 | 0.0156 |
| 7R | 1.000000000596 | 0.0204 |
| 6R | 1.000000000579 | 0.0278 |
| 5R | 1.000000000556 | 0.0400 |
| 4R | 1.000000000522 | 0.0625 |
| 3R | 1.000000000464 | 0.1111 |
| 2R | 1.000000000348 | 0.2500 |
| 1R | 1.000000000000 | 1.0000 |

