**GPC 522 Magnetic Methods Practical**

**Assignment 3**

**Date:22nd January, 2024**

**The Gauss coefficients for the dipole and quadrupole components of the geomagnetic**

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| gnm | IGRF-1985 | IGRF-1990 | IGRF-1995 | IGRF-2000 | IGRF-2005 | IGRF-2010 | IGRF-2015 | IGRF-2020 |
| g10 | -29873 | -29775 | -29692 | -29619.4 | -29554.6 | -29496.6 | -29441.5 | -29404.8 |
| g11 | -1905 | -1848 | -1784 | -1728.2 | -1669.05 | -1586.42 | -1501.77 | -1450.9 |
| h11 | 5500 | 5406 | 5306 | 5186.1 | 5077.99 | 4944.26 | 4795.99 | 4652.5 |
| g20 | -2072 | -2131 | -2200 | -2267.7 | -2337.24 | -2396.06 | -2445.88 | -2499.6 |
| g21 | 3044 | 3059 | 3070 | 3068.4 | 3047.69 | 3026.34 | 3012.2 | 2982 |
| h21 | -2197 | -2279 | -2366 | -2481.6 | -2594.5 | -2708.54 | -2845.41 | -2991.6 |
| g22 | 1687 | 1686 | 1681 | 1670.9 | 1657.76 | 1668.17 | 1676.35 | 1677 |
| h22 | -306 | -373 | -413 | -458 | -515.43 | -575.73 | -642.17 | -734.6 |

**field from the various IGRF models are provided below.**

