

# < institution > Kyoto University, Nagoya University, Institute of  
 Statistical Mathematics, Kyushu University, Tokyo Institute of  
 Technology, University of Tokyo  
 # < product > Predicted average secular variation for 2020.0–2025.0 to SH  
 degree and order 8

| # | n | m | gdotnm | hdotnm | uncertainty_gdotnm | uncertainty_hdotnm [nT/year] |
|---|---|---|--------|--------|--------------------|------------------------------|
| 1 | 0 |   | 1.88   | -      | 0.21               | -                            |
| 1 | 1 |   | 3.82   | -24.64 | 0.27               | 0.26                         |
| 2 | 0 |   | -10.85 | -      | 0.21               | -                            |
| 2 | 1 |   | -6.21  | -26.05 | 0.24               | 0.21                         |
| 2 | 2 |   | -4.59  | -17.18 | 0.18               | 0.18                         |
| 3 | 0 |   | 0.31   | -      | 0.19               | -                            |
| 3 | 1 |   | -4.94  | 4.51   | 0.15               | 0.15                         |
| 3 | 2 |   | 2.03   | -0.58  | 0.15               | 0.15                         |
| 3 | 3 |   | -11.74 | -0.45  | 0.12               | 0.12                         |
| 4 | 0 |   | -0.04  | -      | 0.11               | -                            |
| 4 | 1 |   | -0.37  | -0.10  | 0.11               | 0.10                         |
| 4 | 2 |   | -5.91  | 4.49   | 0.10               | 0.10                         |
| 4 | 3 |   | 2.61   | 4.14   | 0.09               | 0.09                         |
| 4 | 4 |   | -5.05  | -4.62  | 0.08               | 0.08                         |
| 5 | 0 |   | -0.95  | -      | 0.07               | -                            |
| 5 | 1 |   | 0.00   | -1.40  | 0.07               | 0.07                         |
| 5 | 2 |   | 0.21   | 2.89   | 0.07               | 0.07                         |
| 5 | 3 |   | 1.16   | 0.69   | 0.06               | 0.06                         |
| 5 | 4 |   | 0.73   | 1.49   | 0.06               | 0.06                         |
| 5 | 5 |   | 0.95   | -0.08  | 0.05               | 0.05                         |
| 6 | 0 |   | -0.65  | -      | 0.05               | -                            |
| 6 | 1 |   | -0.52  | -0.25  | 0.05               | 0.04                         |
| 6 | 2 |   | 0.62   | -1.37  | 0.04               | 0.04                         |
| 6 | 3 |   | 1.48   | -1.27  | 0.04               | 0.04                         |
| 6 | 4 |   | -1.14  | 0.78   | 0.03               | 0.03                         |
| 6 | 5 |   | 0.33   | 0.03   | 0.04               | 0.04                         |
| 6 | 6 |   | 0.92   | 0.85   | 0.03               | 0.03                         |
| 7 | 0 |   | -0.53  | -      | 0.03               | -                            |
| 7 | 1 |   | -0.18  | 0.32   | 0.03               | 0.02                         |
| 7 | 2 |   | 0.05   | 0.96   | 0.03               | 0.03                         |
| 7 | 3 |   | 0.90   | -0.05  | 0.02               | 0.02                         |
| 7 | 4 |   | -0.09  | -0.01  | 0.03               | 0.02                         |
| 7 | 5 |   | -0.70  | -1.27  | 0.02               | 0.02                         |
| 7 | 6 |   | -0.74  | -0.03  | 0.02               | 0.02                         |

|   |   |       |       |      |      |
|---|---|-------|-------|------|------|
| 7 | 7 | 0.16  | 0.12  | 0.02 | 0.02 |
| 8 | 0 | -0.10 | -     | 0.02 | -    |
| 8 | 1 | 0.05  | -0.62 | 0.02 | 0.02 |
| 8 | 2 | -0.07 | 0.64  | 0.02 | 0.01 |
| 8 | 3 | 0.32  | -0.06 | 0.02 | 0.02 |
| 8 | 4 | -0.02 | 0.64  | 0.01 | 0.01 |
| 8 | 5 | 0.20  | -0.11 | 0.01 | 0.01 |
| 8 | 6 | 0.15  | -0.50 | 0.01 | 0.01 |
| 8 | 7 | -0.15 | 0.27  | 0.01 | 0.01 |
| 8 | 8 | 0.23  | 0.02  | 0.01 | 0.01 |

\* Uncertainties are all one standard deviations.