Natural Satellites Ephemeris Service Data Return

Here are the results from your request.

Ephemerides supplied below are for the geocenter.

Saturn IX (Phoebe)

Perturbed ephemeris below is based on 43455-day-arc elements from *MPC* 106351. Last observed on 2017 Aug. 10.

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[S009S       ]
Date       UT      R.A. (J2000) Decl.    Delta     r      r_S     El.    Ph.   V      Offset      Sky Motion
                                                                                                 "/min    P.A.
2022 09 27 000000 21 25 58.0 -16 26 22   9.042   9.777  0.0854   135.1   4.2  16.7   672-   28-    0.091   252.1
2022 09 27 010000 21 25 57.7 -16 26 23   9.042   9.777  0.0855   135.0   4.2  16.7   671-   28-    0.091   252.1
2022 09 27 020000 21 25 57.3 -16 26 25   9.043   9.777  0.0855   135.0   4.2  16.7   670-   28-    0.090   252.1
2022 09 27 030000 21 25 57.0 -16 26 27   9.043   9.777  0.0855   134.9   4.2  16.7   669-   27-    0.090   252.1
2022 09 27 040000 21 25 56.6 -16 26 28   9.044   9.777  0.0855   134.9   4.2  16.7   669-   27-    0.090   252.1
2022 09 27 050000 21 25 56.3 -16 26 30   9.044   9.777  0.0855   134.9   4.2  16.7   668-   27-    0.090   252.1
2022 09 27 060000 21 25 55.9 -16 26 32   9.045   9.777  0.0855   134.8   4.2  16.7   667-   27-    0.090   252.1
2022 09 27 070000 21 25 55.5 -16 26 33   9.045   9.777  0.0855   134.8   4.2  16.7   666-   27-    0.090   252.1
2022 09 27 080000 21 25 55.2 -16 26 35   9.046   9.777  0.0855   134.7   4.2  16.7   666-   26-    0.090   252.1
2022 09 27 090000 21 25 54.8 -16 26 37   9.046   9.777  0.0855   134.7   4.2  16.7   665-   26-    0.089   252.1
2022 09 27 100000 21 25 54.5 -16 26 38   9.046   9.777  0.0855   134.6   4.2  16.7   664-   26-    0.089   252.1
2022 09 27 110000 21 25 54.1 -16 26 40   9.047   9.777  0.0855   134.6   4.2  16.7   663-   26-    0.089   252.1
2022 09 27 120000 21 25 53.8 -16 26 42   9.047   9.777  0.0855   134.6   4.2  16.7   662-   25-    0.089   252.1
2022 09 27 130000 21 25 53.4 -16 26 43   9.048   9.777  0.0855   134.5   4.2  16.7   662-   25-    0.089   252.1
2022 09 27 140000 21 25 53.1 -16 26 45   9.048   9.777  0.0855   134.5   4.2  16.7   661-   25-    0.089   252.1
2022 09 27 150000 21 25 52.7 -16 26 46   9.049   9.777  0.0856   134.4   4.2  16.7   660-   25-    0.088   252.1
2022 09 27 160000 21 25 52.4 -16 26 48   9.049   9.777  0.0856   134.4   4.2  16.7   659-   25-    0.088   252.1
2022 09 27 170000 21 25 52.0 -16 26 50   9.050   9.777  0.0856   134.3   4.2  16.7   659-   24-    0.088   252.2
2022 09 27 180000 21 25 51.7 -16 26 51   9.050   9.777  0.0856   134.3   4.2  16.7   658-   24-    0.088   252.2
2022 09 27 190000 21 25 51.3 -16 26 53   9.051   9.777  0.0856   134.3   4.2  16.7   657-   24-    0.088   252.2
2022 09 27 200000 21 25 51.0 -16 26 55   9.051   9.777  0.0856   134.2   4.2  16.7   656-   24-    0.088   252.2
2022 09 27 210000 21 25 50.6 -16 26 56   9.052   9.777  0.0856   134.2   4.2  16.7   655-   23-    0.088   252.2
2022 09 27 220000 21 25 50.3 -16 26 58   9.052   9.777  0.0856   134.1   4.2  16.7   655-   23-    0.087   252.2
2022 09 27 230000 21 25 49.9 -16 26 59   9.053   9.777  0.0856   134.1   4.2  16.7   654-   23-    0.087   252.2
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These calculations have been performed on the Tamkin Foundation Computing Network.

MPC