

Mars Year 38

|       |    | Leap              |            | MY 38 Sol 001 |            | 2024 11 11 Mon   |            | 0038               |       |  |
|-------|----|-------------------|------------|---------------|------------|------------------|------------|--------------------|-------|--|
| Year  |    | Add 53629 for MSD |            | MSD 53630     |            | 00:00:00.000 AMT |            | 20:35:25.616 UT    | MNYD  |  |
| Month |    | Sun               | Mon        | Tue           | Wed        | Thu              | Fri        | Sat                | Month |  |
| 0037  | 24 | 663<br>663        | 664<br>664 | 665<br>665    | 666<br>666 | 667<br>667       | 668<br>668 | 669 MNYE<br>669 LD | 24    |  |
| 0038  | 01 | 001 /E            | 002        | 003           | 004        | 005              | 006        | 007                | 01    |  |
|       |    | 001               | 002        | 003           | 004        | 005              | 006        | 007                |       |  |
|       |    | 008               | 009        | 010           | 011        | 012              | 013        | 014                |       |  |
|       |    | 008               | 009        | 010           | 011        | 012              | 013        | 014                |       |  |
|       |    | 015               | 016        | 017           | 018        | 019              | 020        | 021                |       |  |
| Leap  |    | 015               | 016        | 017           | 018        | 019              | 020        | 021                |       |  |
|       |    | 022               | 023        | 024           | 025        | 026              | 027        | 028                |       |  |
|       |    | 022               | 023        | 024           | 025        | 026              | 027        | 028                |       |  |
|       |    | 029               | 001        | 002           | 003        | 004              | 005        | 006                |       |  |
|       |    | 029               | 030        | 031           | 032        | 033              | 034        | 035                |       |  |
|       | 02 | 007               | 008        | 009           | 010        | 011              | 012        | 013                |       |  |
|       |    | 036               | 037        | 038           | 039        | 040              | 041        | 042                |       |  |
|       |    | 014               | 015        | 016           | 017        | 018              | 019        | 020 ENYD           |       |  |
|       |    | 043               | 044        | 045           | 046        | 047              | 048        | 049 2025           |       |  |
|       |    | 021               | 022        | 023           | 024        | 025              | 026        | 027                |       |  |
|       |    | 050               | 051        | 052           | 053        | 054              | 055        | 056                |       |  |
|       |    | 028               | 029        | 030           | 031        | 032              | 001        | 002                |       |  |
|       |    | 057               | 058        | 059           | 060        | 061              | 062        | 063                |       |  |
|       |    | 003 E-Ma          | 004        | 005           | 006        | 007              | 008        | 009                |       |  |
|       |    | 064               | 065        | 066           | 067        | 068              | 069        | 070                |       |  |
|       |    | 010               | 011        | 012           | 013        | 014              | 015        | 016                |       |  |
|       |    | 071               | 072        | 073           | 074        | 075              | 076        | 077                |       |  |
|       |    | 017               | 018        | 019           | 020        | 021              | 022        | 023                |       |  |
|       |    | 078               | 079        | 080           | 081        | 082              | 083        | 084                |       |  |
|       |    | 024               | 025        | 026           | 027        | 028              | 029        | 030                |       |  |
|       |    | 085               | 086        | 087           | 088        | 089              | 090        | 091                |       |  |
|       |    | 031               | 032        | 001           | 002        | 003              | 004        | 005                |       |  |
|       |    | 092               | 093        | 094           | 095        | 096              | 097        | 098                |       |  |
|       |    | 006               | 007        | 008           | 009        | 010              | 011        | 012                |       |  |
|       |    | 099               | 100        | 101           | 102        | 103              | 104        | 105                |       |  |
|       |    | 013               | 014        | 015           | 016        | 017              | 018        | 019                |       |  |
|       |    | 106               | 107        | 108           | 109        | 110              | 111        | 112                |       |  |
|       |    | 020               | 021        | 022           | 023        | 024              | 025        | 026                |       |  |
|       |    | 113               | 114        | 115           | 116        | 117              | 118        | 119                |       |  |
|       |    | 027               | 028        | 029           | 030        | 031              | 032        | 033                |       |  |
|       |    | 120               | 121        | 122           | 123        | 124              | 125        | 126                |       |  |
|       |    | 001               | 002        | 003           | 004        | 005              | 006        | 007                |       |  |
|       |    | 127               | 128        | 129           | 130        | 131              | 132        | 133                |       |  |
|       |    | 008               | 009        | 010           | 011        | 012              | 013        | 014                |       |  |
|       |    | 134               | 135        | 136           | 137        | 138              | 139        | 140                |       |  |
|       |    | 015               | 016        | 017           | 018        | 019              | 020        | 021                |       |  |
|       |    | 141               | 142        | 143           | 144        | 145              | 146        | 147                |       |  |
|       |    | 022               | 023        | 024           | 025        | 026 A            | 027        | 028                |       |  |
|       |    | 148               | 149        | 150           | 151        | 152              | 153        | 154                |       |  |
|       |    | 029               | 030        | 031           | 032        | 033              | 034        | 001                |       |  |
|       |    | 155               | 156        | 157           | 158        | 159              | 160        | 161                |       |  |
|       |    | 002               | 003        | 004           | 005        | 006              | 007        | 008                |       |  |
|       |    | 162               | 163        | 164           | 165        | 166              | 167        | 168                |       |  |
|       |    | 009               | 010        | 011           | 012        | 013              | 014        | 015                |       |  |
|       |    | 169               | 170        | 171           | 172        | 173              | 174        | 175                |       |  |
|       |    | 016               | 017        | 018           | 019        | 020              | 021        | 022                |       |  |
|       |    | 176               | 177        | 178           | 179        | 180              | 181        | 182                |       |  |
|       |    | 023               | 024        | 025           | 026        | 027              | 028        | 029                |       |  |
|       |    | 183               | 184        | 185           | 186        | 187              | 188        | 189                |       |  |
|       |    | 030               | 031        | 032           | 033        | 001 NS           | 002        | 003                |       |  |
|       |    | 190               | 191        | 192           | 193        | 194              | 195        | 196                |       |  |
|       |    | 004               | 005        | 006           | 007        | 008              | 009        | 010                |       |  |
|       |    | 197               | 198        | 199           | 200        | 201              | 202        | 203                |       |  |
|       |    | 011               | 012        | 013           | 014        | 015              | 016        | 017                |       |  |
|       |    | 204               | 205        | 206           | 207        | 208              | 209        | 210                |       |  |
|       |    | 018               | 019        | 020           | 021        | 022              | 023        | 024                |       |  |
|       |    | 211               | 212        | 213           | 214        | 215              | 216        | 217                |       |  |
|       |    | 025               | 026        | 027           | 028        | 029              | 030        | 031                |       |  |
|       |    | 218               | 219        | 220           | 221        | 222              | 223        | 224                |       |  |
|       |    | 032               | 033        | 001           | 002        | 003              | 004        | 005                |       |  |
|       |    | 225               | 226        | 227           | 228        | 229              | 230        | 231                |       |  |
|       |    | 006               | 007        | 008           | 009        | 010              | 011        | 012                |       |  |
|       |    | 232               | 233        | 234           | 235        | 236              | 237        | 238                |       |  |
|       |    | 013               | 014        | 015           | 016        | 017              | 018        | 019                |       |  |
|       |    | 239               | 240        | 241           | 242        | 243              | 244        | 245                |       |  |
|       |    | 020               | 021        | 022           | 023        | 024              | 025        | 026                |       |  |
|       |    | 246               | 247        | 248           | 249        | 250              | 251        | 252                |       |  |
|       |    | 027               | 028        | 029           | 030        | 031              | 001        | 002                |       |  |
|       |    | 253               | 254        | 255           | 256        | 257              | 258        | 259                |       |  |
|       |    | 003               | 004        | 005           | 006        | 007              | 008        | 009                |       |  |
|       |    | 260               | 261        | 262           | 263        | 264              | 265        | 266                |       |  |
|       |    | 010               | 011        | 012           | 013        | 014              | 015        | 016                |       |  |
|       |    | 267               | 268        | 269           | 270        | 271              | 272        | 273                |       |  |
|       |    | 017               | 018        | 019           | 020        | 021              | 022        | 023                |       |  |
|       |    | 274               | 275        | 276           | 277        | 278              | 279        | 280                |       |  |
|       |    | 024               | 025        | 026           | 027        | 028              | 029        | 030                |       |  |
|       |    | 281               | 282        | 283           | 284        | 285              | 286        | 287                |       |  |
|       |    | 031               | 001        | 002           | 003        | 004              | 005        | 006                |       |  |
|       |    | 288               | 289        | 290           | 291        | 292              | 293        | 294                |       |  |
|       |    | 004               | 008        | 009           | 010        | 011              | 012        | 013                |       |  |
|       |    | 295               | 296        | 297           | 298        | 299              | 300        | 301                |       |  |
|       |    | 011               | 015        | 016           | 017        | 018              | 019        | 020                |       |  |
|       |    | 302               | 303        | 304           | 305        | 306              | 307        | 308                |       |  |
|       |    | 018               | 022        | 023           | 024        | 025              | 026        | 027                |       |  |
|       |    | 309               | 310        | 311           | 312        | 313              | 314        | 315                |       |  |
|       |    | 025               | 029        | 001           | 002        | 003              | 004        | 005                |       |  |
|       |    | 316               | 317        | 318           | 319        | 320              | 321        | 322                |       |  |
|       |    | 006               | 007        | 008           | 009        | 010              | 011        | 012                |       |  |
|       |    | 323               | 324        | 325           | 326        | 327              | 328        | 329                |       |  |
|       |    | 013               | 014        | 015           | 016        | 017              | 018        | 019                |       |  |
|       |    | 330               | 331        | 332           | 333        | 334              | 335        | 336                |       |  |
|       |    | 020               | 021        | 022           | 023        | 024              | 025        | 026                |       |  |
|       |    | 337               | 338        | 339           | 340        | 341              | 342        | 343                |       |  |
|       |    | 027               | 028        | 001           | 002        | 003              | 004        | 005                |       |  |
|       |    | 344               | 345        | 346           | 347        | 348              | 349        | 350                |       |  |
|       |    | 006               | 007        | 008           | 009        | 010              | 011        | 012                |       |  |
|       |    | 351               | 352        | 353           | 354        | 355              | 356        | 357                |       |  |
|       |    | 013               | 014        | 015           | 016        | 017              | 018        | 019                |       |  |
|       |    | 358               | 359        | 360           | 361        | 362              | 363        | 364                |       |  |
|       |    | 020               | 021        | 022           | 023        | 024              | 025        | 026                |       |  |
|       |    | 365               | 366        | 367           | 368        | 369              | 370        | 371                |       |  |

| Year | Month |                                                                                                                                       | Month                                                                                                                                |
|------|-------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|      |       | 2024 11 12 Tue<br>09:49:34.616 UT<br>N. Spring<br>Equinox<br>MSD 53630.53674<br>12:52:54.656 AMT<br>MY 38 Sol 001<br>Ls = 0<br>/E     | 2025 05 29 Thu<br>23:20:24.982 UT<br>N. Summer<br>Solstice<br>MSD 53823.78713<br>18:53:28.164 AMT<br>MY 38 Sol 194<br>Ls = 90<br>NS  |
|      |       | 2025 11 29 Sat<br>12:13:14.959 UT<br>N. Autumnal<br>Equinox<br>MSD 54002.41317<br>09:54:57.690 AMT<br>MY 38 Sol 373<br>Ls = 180<br>\E | 2026 04 25 Sat<br>04:07:19.516 UT<br>N. Winter<br>Solstice<br>MSD 54145.15166<br>03:38:23.473 AMT<br>MY 38 Sol 516<br>Ls = 270<br>SS |

| Dust Storm Season: Sols 372-669 |            |            |               | Non-Leap      | MY 39 Sol 001    |               | 2026 09 30 Wed       |            | 0039 |       |  |
|---------------------------------|------------|------------|---------------|---------------|------------------|---------------|----------------------|------------|------|-------|--|
| Year                            |            | Month      |               | MSD 54299     | 00:00:00.000 AMT |               | 05:59:24.522 UT      |            | MNYD | Month |  |
|                                 |            | Sun        | Mon           | Tue           | Wed              | Thu           | Fri                  | Sat        |      |       |  |
| 0038                            | 13         | 001<br>372 | 002 \E<br>373 | 003<br>374    | 004<br>375       | 005<br>376    | 006<br>377           | 007<br>378 | 13   |       |  |
|                                 |            | 008<br>379 | 009<br>380    | 010<br>381    | 011<br>382       | 012<br>383    | 013<br>384           | 014<br>385 |      |       |  |
|                                 |            | 015<br>386 | 016<br>387    | 017<br>388    | 018<br>389       | 019<br>390    | 020<br>391           | 021<br>392 |      |       |  |
|                                 |            | 022<br>393 | 023<br>394    | 024<br>395    | 025<br>396       | 026<br>397    | 001<br>398           | 002<br>399 |      |       |  |
|                                 | 14         | 003<br>400 | 004<br>401    | 005<br>402    | 006<br>403       | 007<br>404    | 008 ENVD<br>405 2026 | 009<br>406 | 14   |       |  |
|                                 |            | 010<br>407 | 011<br>408    | 012<br>409    | 013<br>410       | 014<br>411    | 015<br>412           | 016<br>413 |      |       |  |
|                                 |            | 017<br>414 | 018<br>415    | 019<br>416    | 020<br>417       | 021<br>418    | 022<br>419           | 023<br>420 |      |       |  |
|                                 |            | 024<br>421 | 001<br>422    | 002<br>423    | 003<br>424       | 004<br>425    | 005<br>426           | 006<br>427 |      |       |  |
|                                 | 15         | 007<br>428 | 008<br>429    | 009<br>430    | 010<br>431       | 011<br>432    | 012<br>433           | 013<br>434 | 15   |       |  |
|                                 |            | 014<br>435 | 015<br>436    | 016<br>437    | 017<br>438       | 018<br>439    | 019<br>440           | 020<br>441 |      |       |  |
|                                 |            | 021<br>442 | 022<br>443    | 023<br>444    | 024<br>445       | 001<br>446    | 002<br>447           | 003<br>448 |      |       |  |
|                                 |            | 004<br>449 | 005<br>450    | 006<br>451    | 007<br>452       | 008<br>453    | 009<br>454           | 010<br>455 |      |       |  |
|                                 | 16         | 011<br>456 | 012<br>457    | 013<br>458    | 014<br>459       | 015<br>460    | 016<br>461           | 017<br>462 | 16   |       |  |
|                                 |            | 018<br>463 | 019<br>464    | 020<br>465    | 021<br>466       | 022<br>467    | 023<br>468           | 001<br>469 |      |       |  |
|                                 |            | 002<br>470 | 003<br>471    | 004<br>472    | 005<br>473       | 006<br>474    | 007<br>475           | 008<br>476 |      |       |  |
|                                 |            | 009<br>477 | 010<br>478    | 011<br>479    | 012<br>480       | 013<br>481    | 014<br>482           | 015<br>483 |      |       |  |
|                                 | 17         | 016<br>484 | 017<br>485    | 018 P<br>486  | 019<br>487       | 020<br>488    | 021<br>489           | 022<br>490 | 17   |       |  |
|                                 |            | 023<br>491 | 001<br>492    | 002<br>493    | 003<br>494       | 004<br>495    | 005<br>496           | 006<br>497 |      |       |  |
|                                 |            | 007<br>498 | 008<br>499    | 009<br>500    | 010<br>501       | 011<br>502    | 012<br>503           | 013<br>504 |      |       |  |
|                                 |            | 014<br>505 | 015<br>506    | 016<br>507    | 017<br>508       | 018<br>509    | 019<br>510           | 020<br>511 |      |       |  |
|                                 | 18         | 021<br>512 | 022<br>513    | 023<br>514    | 001<br>515       | 002 SS<br>516 | 003<br>517           | 004<br>518 | 18   |       |  |
|                                 |            | 005<br>519 | 006<br>520    | 007<br>521    | 008<br>522       | 009<br>523    | 010<br>524           | 011<br>525 |      |       |  |
|                                 |            | 012<br>526 | 013<br>527    | 014<br>528    | 015<br>529       | 016<br>530    | 017<br>531           | 018<br>532 |      |       |  |
|                                 |            | 019<br>533 | 020<br>534    | 021<br>535    | 022<br>536       | 023<br>537    | 024<br>538           | 001<br>539 |      |       |  |
|                                 | 19         | 002<br>540 | 003<br>541    | 004<br>542    | 005<br>543       | 006<br>544    | 007<br>545           | 008<br>546 | 19   |       |  |
|                                 |            | 009<br>547 | 010<br>548    | 011<br>549    | 012<br>550       | 013<br>551    | 014<br>552           | 015<br>553 |      |       |  |
|                                 |            | 016<br>554 | 017<br>555    | 018<br>556    | 019<br>557       | 020<br>558    | 021<br>559           | 022<br>560 |      |       |  |
|                                 |            | 023<br>561 | 024<br>562    | 001<br>563    | 002<br>564       | 003<br>565    | 004<br>566           | 005<br>567 |      |       |  |
|                                 | 20         | 006<br>568 | 007<br>569    | 008<br>570    | 009<br>571       | 010<br>572    | 011<br>573           | 012<br>574 | 20   |       |  |
|                                 |            | 013<br>575 | 014<br>576    | 015<br>577    | 016<br>578       | 017<br>579    | 018<br>580           | 019<br>581 |      |       |  |
|                                 |            | 020<br>582 | 021<br>583    | 022<br>584    | 023<br>585       | 024<br>586    | 001<br>587           | 002<br>588 |      |       |  |
|                                 |            | 003<br>589 | 004<br>590    | 005<br>591    | 006<br>592       | 007<br>593    | 008<br>594           | 009<br>595 |      |       |  |
|                                 | 21         | 010<br>596 | 011<br>597    | 012<br>598    | 013<br>599       | 014<br>600    | 015<br>601           | 016<br>602 | 21   |       |  |
|                                 |            | 017<br>603 | 018<br>604    | 019<br>605    | 020<br>606       | 021<br>607    | 022<br>608           | 023<br>609 |      |       |  |
|                                 |            | 024<br>610 | 025<br>611    | 026<br>612    | 001<br>613       | 002<br>614    | 003<br>615           | 004<br>616 |      |       |  |
|                                 |            | 005<br>617 | 006<br>618    | 007<br>619    | 008<br>620       | 009<br>621    | 010<br>622           | 011<br>623 |      |       |  |
|                                 | 22         | 012<br>624 | 013<br>625    | 014<br>626    | 015<br>627       | 016<br>628    | 017<br>629           | 018<br>630 | 22   |       |  |
|                                 |            | 019<br>631 | 020<br>632    | 021<br>633    | 022<br>634       | 023<br>635    | 024<br>636           | 025<br>637 |      |       |  |
|                                 |            | 026<br>638 | 027<br>639    | 028<br>640    | 001<br>641       | 002<br>642    | 003<br>643           | 004<br>644 |      |       |  |
|                                 |            | 005<br>645 | 006<br>646    | 007<br>647    | 008<br>648       | 009<br>649    | 010<br>650           | 011<br>651 |      |       |  |
| 23                              | 012<br>652 | 013<br>653 | 014<br>654    | 015<br>655    | 016<br>656       | 017<br>657    | 018<br>658           | 23         |      |       |  |
|                                 | 019<br>659 | 020<br>660 | 021<br>661    | 022<br>662    | 023<br>663       | 024<br>664    | 025<br>665           |            |      |       |  |
|                                 | 026<br>666 | 027<br>667 | 028<br>668    | 001<br>669 LD | 002<br>670       | 003<br>671    | 004<br>672           |            |      |       |  |
|                                 | 005<br>673 | 006<br>674 | 007<br>675    | 008<br>676    | 009<br>677       | 010<br>678    | 011<br>679           |            |      |       |  |
| 24                              | 012<br>680 | 013<br>681 | 014<br>682    | 015<br>683    | 016<br>684       | 017<br>685    | 018<br>686           | 24         |      |       |  |
|                                 | 019<br>687 | 020<br>688 | 021<br>689    | 022<br>690    | 023<br>691       | 024<br>692    | 025<br>693           |            |      |       |  |
|                                 | 026<br>694 | 027<br>695 | 028<br>696    | 001<br>697    | 002<br>698       | 003<br>699    | 004<br>700           |            |      |       |  |
|                                 | 005<br>701 | 006<br>702 | 007<br>703    | 008<br>704    | 009<br>705       | 010<br>706    | 011<br>707           |            |      |       |  |
| 01                              | 012<br>708 | 013<br>709 | 014<br>710    | 015<br>711    | 016<br>712       | 017<br>713    | 018<br>714           | 01         |      |       |  |
|                                 | 019<br>715 | 020<br>716 | 021<br>717    | 022<br>718    | 023<br>719       | 024<br>720    | 025<br>721           |            |      |       |  |
|                                 | 026<br>722 | 027<br>723 | 028<br>724    | 001<br>725    | 002<br>726       | 003<br>727    | 004<br>728           |            |      |       |  |
|                                 | 005<br>729 | 006<br>730 | 007<br>731    | 008<br>732    | 009<br>733       | 010<br>734    | 011<br>735           |            |      |       |  |
| 0039                            | 01         | 004        | 005           | 006           | 007              | 008           | 009                  | 010        |      |       |  |
|                                 |            | 004        | 005           | 006           | 007              | 008           | 009                  | 010        |      |       |  |
| Year                            |            | Month      |               |               |                  |               |                      |            |      | Month |  |

| Earth Date/Time UT  | Sol | Ls       | Earth Date/Time UT  | Sol | Ls      | Earth Date/Time UT  | Sol | Ls       | Earth Date/Time UT  | Sol | Ls       | Earth Date/Time UT  | Sol | Ls       | Earth        | Mars     |
|---------------------|-----|----------|---------------------|-----|---------|---------------------|-----|----------|---------------------|-----|----------|---------------------|-----|----------|--------------|----------|
| Mon 20241111t203526 | 1   | 359.732° | Sat 20250329t130008 | 135 | 63.119° | Thu 20250814t052451 | 269 | 124.691° | Mon 20251229t214934 | 403 | 197.558° | Sat 20260516t141417 | 537 | 283.358° | 00:00:00.000 | 00:00:00 |
| Tue 20241121t211501 | 2   | 0.245°   | Sun 20250330t133944 | 136 | 63.568° | Fri 20250815t060427 | 270 | 125.178° | Tue 20251230t222909 | 404 | 198.167° | Sun 20260517t145352 | 538 | 283.993° | 01:01:38.969 | 01:00:00 |
| Wed 20241131t215436 | 3   | 0.758°   | Mon 20250331t141919 | 137 | 64.018° | Sat 20250816t064402 | 271 | 125.666° | Wed 20251231t230845 | 405 | 198.776° | Mon 20260518t153327 | 539 | 284.627° | 02:03:17.937 | 02:00:00 |
| Thu 20241114t223411 | 4   | 1.269°   | Tue 20250401t145854 | 138 | 64.467° | Sun 20250817t072737 | 272 | 126.154° | Thu 20260101t234820 | 406 | 199.386° | Tue 20260519t161303 | 540 | 285.261° | 03:04:56.906 | 03:00:00 |
| Fri 20241115t231347 | 5   | 1.780°   | Wed 20250402t153829 | 139 | 64.916° | Mon 20250818t080312 | 273 | 126.643° | Sat 20260103t002755 | 407 | 199.997° | Wed 20260520t165238 | 541 | 285.894° | 04:06:35.874 | 04:00:00 |
| Sat 20241116t235322 | 6   | 2.290°   | Thu 20250403t161805 | 140 | 65.365° | Tue 20250819t084248 | 274 | 127.133° | Sun 20260104t010730 | 408 | 200.609° | Thu 20260521t173213 | 542 | 286.526° | 05:08:14.843 | 05:00:00 |
| Mon 20241118t003257 | 7   | 2.799°   | Fri 20250404t165740 | 141 | 65.813° | Wed 20250820t092223 | 275 | 127.623° | Mon 20260105t014706 | 409 | 201.221° | Fri 20260522t181148 | 543 | 287.158° | 06:09:53.811 | 06:00:00 |
| Tue 20241119t011232 | 8   | 3.307°   | Sat 20250405t173715 | 142 | 66.262° | Thu 20250821t100158 | 276 | 128.114° | Tue 20260106t022641 | 410 | 201.835° | Sat 20260523t185124 | 544 | 287.789° | 07:11:32.780 | 07:00:00 |
| Wed 20241120t015208 | 9   | 3.814°   | Sun 20250406t181650 | 143 | 66.711° | Fri 20250822t104133 | 277 | 128.606° | Wed 20260107t030616 | 411 | 202.449° | Sun 20260524t193059 | 545 | 288.419° | 08:13:11.748 | 08:00:00 |
| Thu 20241121t023143 | 10  | 4.321°   | Mon 20250407t185626 | 144 | 67.160° | Sat 20250823t112108 | 278 | 129.098° | Thu 20260108t034551 | 412 | 203.065° | Mon 20260525t201034 | 546 | 289.048° | 09:14:50.717 | 09:00:00 |
| Fri 20241122t031118 | 11  | 4.826°   | Tue 20250408t193601 | 145 | 67.608° | Sun 20250824t120044 | 279 | 129.592° | Fri 20260109t042527 | 413 | 203.681° | Tue 20260526t205009 | 547 | 289.677° | 10:16:29.685 | 10:00:00 |
| Sat 20241123t035053 | 12  | 5.331°   | Wed 20250409t201536 | 146 | 68.057° | Mon 20250825t124019 | 280 | 130.085° | Sat 20260110t050502 | 414 | 204.298° | Wed 20260527t212945 | 548 | 290.305° | 11:18:08.654 | 11:00:00 |
| Sun 20241124t043029 | 13  | 5.836°   | Thu 20250410t205511 | 147 | 68.505° | Tue 20250826t131954 | 281 | 130.580° | Sun 20260111t054437 | 415 | 204.916° | Thu 20260528t220920 | 549 | 290.932° | 12:19:47.623 | 12:00:00 |
| Mon 20241125t051004 | 14  | 6.339°   | Fri 20250411t213447 | 148 | 68.954° | Wed 20250827t135929 | 282 | 131.075° | Mon 20260112t062412 | 416 | 205.533° | Fri 20260529t224855 | 550 | 291.558° | 13:21:26.591 | 13:00:00 |
| Tue 20241126t054939 | 15  | 6.842°   | Sat 20250412t221422 | 149 | 69.402° | Thu 20250828t143905 | 283 | 131.571° | Tue 20260113t070348 | 417 | 206.155° | Sat 20260530t232830 | 551 | 292.184° | 14:23:05.560 | 14:00:00 |
| Wed 20241127t062914 | 16  | 7.343°   | Sun 20250413t225357 | 150 | 69.851° | Fri 20250829t151840 | 284 | 132.068° | Wed 20260114t074323 | 418 | 206.775° | Mon 20260601t000806 | 552 | 292.809° | 15:24:44.528 | 15:00:00 |
| Thu 20241128t070850 | 17  | 7.845°   | Mon 20250414t233332 | 151 | 70.299° | Sat 20250830t155815 | 285 | 132.566° | Thu 20260115t082258 | 419 | 207.396° | Tue 20260602t004741 | 553 | 293.433° | 16:26:23.497 | 16:00:00 |
| Fri 20241129t074825 | 18  | 8.345°   | Wed 20250416t001308 | 152 | 70.747° | Sun 20250831t163750 | 286 | 133.064° | Fri 20260116t090233 | 420 | 208.018° | Wed 20260603t012716 | 554 | 294.056° | 17:28:02.465 | 17:00:00 |
| Sat 20241130t082800 | 19  | 8.844°   | Thu 20250417t005243 | 153 | 71.196° | Mon 20250901t171726 | 287 | 133.563° | Sat 20260117t094209 | 421 | 208.641° | Thu 20260604t020651 | 555 | 294.678° | 18:29:41.434 | 18:00:00 |
| Sun 20241201t090735 | 20  | 9.343°   | Fri 20250418t013218 | 154 | 71.644° | Tue 20250902t175701 | 288 | 134.063° | Sun 20260118t102144 | 422 | 209.265° | Fri 20260605t024627 | 556 | 295.300° | 19:31:20.402 | 19:00:00 |
| Mon 20241202t094711 | 21  | 9.841°   | Sat 20250419t021153 | 155 | 72.093° | Wed 20250903t183636 | 289 | 134.563° | Mon 20260119t110119 | 423 | 209.890° | Sat 20260606t032602 | 557 | 295.921° | 20:32:59.371 | 20:00:00 |
| Tue 20241203t102646 | 22  | 10.339°  | Sun 20250420t025129 | 156 | 72.541° | Thu 20250904t191611 | 290 | 135.065° | Tue 20260120t114054 | 424 | 210.515° | Sun 20260607t040537 | 558 | 296.541° | 21:34:38.339 | 21:00:00 |
| Wed 20241204t110621 | 23  | 10.835°  | Mon 20250421t033104 | 157 | 72.989° | Fri 20250905t195547 | 291 | 135.567° | Wed 20260121t122029 | 425 | 211.141° | Mon 20260608t044512 | 559 | 297.160° | 22:36:17.308 | 22:00:00 |
| Thu 20241205t114556 | 24  | 11.331°  | Tue 20250422t041039 | 158 | 73.438° | Sat 20250906t203522 | 292 | 136.070° | Thu 20260122t130005 | 426 | 211.768° | Tue 20260609t052448 | 560 | 297.778° | 23:37:56.276 | 23:00:00 |
| Fri 20241206t122531 | 25  | 11.826°  | Wed 20250423t045014 | 159 | 73.886° | Sun 20250907t211457 | 293 | 136.573° | Fri 20260123t133940 | 427 | 212.395° | Wed 20260610t060423 | 561 | 298.396° | 24:39:35.245 | 24:00:00 |
| Sat 20241207t130507 | 26  | 12.321°  | Thu 20250424t052950 | 160 | 74.335° | Mon 20250908t215432 | 294 | 137.078° | Sat 20260124t141915 | 428 | 213.024° | Thu 20260611t064358 | 562 | 299.012° | Earth        | Mars     |
| Sun 20241208t134442 | 27  | 12.814°  | Fri 20250425t060925 | 161 | 74.783° | Tue 20250909t223408 | 295 | 137.583° | Sun 20260125t145850 | 429 | 213.653° | Fri 20260612t072333 | 563 | 299.628° | 00:00:00.000 | 00:00:00 |
| Mon 20241209t142417 | 28  | 13.307°  | Sat 20250426t064900 | 162 | 75.232° | Wed 20250910t231343 | 296 | 138.089° | Mon 20260126t153826 | 430 | 214.283° | Sat 20260613t080309 | 564 | 300.243° | 00:10:16.495 | 00:10:00 |
| Tue 20241210t150352 | 29  | 13.799°  | Sun 20250427t072835 | 163 | 75.681° | Thu 20250911t235318 | 297 | 138.596° | Tue 20260127t161801 | 431 | 214.913° | Sun 20260614t084244 | 565 | 300.857° | 00:20:32.990 | 00:20:00 |
| Wed 20241211t154328 | 30  | 14.291°  | Mon 20250428t080811 | 164 | 76.129° | Sat 20250912t003253 | 298 | 139.103° | Wed 20260128t165736 | 432 | 215.544° | Mon 20260615t092219 | 566 | 301.470° | 00:30:49.484 | 00:30:00 |
| Thu 20241212t163293 | 31  | 14.782°  | Tue 20250429t084746 | 165 | 76.578° | Sun 20250914t011229 | 299 | 139.612° | Thu 20260129t173711 | 433 | 216.176° | Tue 20260616t100154 | 567 | 302.082° | 00:41:05.979 | 00:40:00 |
| Fri 20241213t170238 | 32  | 15.272°  | Wed 20250430t092721 | 166 | 77.027° | Mon 20250915t015204 | 300 | 140.121° | Fri 20260130t181647 | 434 | 216.809° | Wed 20260617t104130 | 568 | 302.693° | 00:51:22.474 | 00:50:00 |
| Sat 20241214t174213 | 33  | 15.762°  | Thu 20250501t100656 | 167 | 77.476° | Tue 20250916t023139 | 301 | 140.631° | Sat 20260131t185622 | 435 | 217.442° | Thu 20260618t112105 | 569 | 303.304° | 01:01:38.969 | 01:00:00 |
| Sun 20241215t182149 | 34  | 16.250°  | Fri 20250502t104632 | 168 | 77.925° | Wed 20250917t031114 | 302 | 141.142° | Sun 20260201t193557 | 436 | 218.077° | Fri 20260619t120040 | 570 | 303.913° | Earth        | Mars     |
| Mon 20241216t190124 | 35  | 16.738°  | Sat 20250503t112607 | 169 | 78.374° | Thu 20250918t035050 | 303 | 141.654° | Mon 20260202t201532 | 437 | 218.711° | Sat 20260620t124015 | 571 | 304.522° | 00:00:00.000 | 00:00:00 |
| Tue 20241217t194059 | 36  | 17.226°  | Sun 20250504t120542 | 170 | 78.823° | Fri 20250919t043025 | 304 | 142.166° | Tue 20260203t205508 | 438 | 219.347° | Sun 20260621t131951 | 572 | 305.129° | 00:01:01.649 | 00:01:00 |
| Wed 20241218t202034 | 37  | 17.713°  | Mon 20250505t124517 | 171 | 79.273° | Sat 20250920t051900 | 305 | 142.679° | Wed 20260204t213443 | 439 | 219.983° | Mon 20260622t135922 | 573 | 305.736° | 00:02:03.299 | 00:02:00 |
| Thu 20241219t210108 | 38  | 18.199°  | Tue 20250506t132453 | 172 | 79.722° | Sun 20250921t054935 | 306 | 143.194° | Thu 20260205t221418 | 440 | 220.619° | Tue 20260623t143901 | 574 | 306.342° | 00:03:04.948 | 00:03:00 |
| Fri 20241220t213945 | 39  | 18.684°  | Wed 20250507t140428 | 173 | 80.171° | Mon 20250922t062911 | 307 | 143.709° | Fri 20260206t225353 | 441 | 221.256° | Wed 20260624t151836 | 575 | 306.947° | 00:04:06.598 | 00:04:00 |
| Sat 20241221t221920 | 40  | 19.169°  | Thu 20250508t144403 | 174 | 80.621° | Tue 20250923t070846 | 308 | 144.225° | Sat 20260207t233329 | 442 | 221.894° | Thu 20260625t155811 | 576 | 307.551° | 00:05:08.247 | 00:05:00 |
| Sun 20241222t225855 | 41  | 19.653°  | Fri 20250509t152338 | 175 | 81.071° | Wed 20250924t070821 | 309 | 144.741° | Sun 20260208t001304 | 443 | 222.533° | Fri 20260626t163747 | 577 | 308.154° | 00:06:09.897 | 00:06:00 |
| Mon 20241223t233831 | 42  | 20.137°  | Sat 20250510t160313 | 176 | 81.521° | Thu 20250925t082756 | 310 | 145.259° | Tue 20260210t005239 | 444 | 223.172° | Sat 20260627t171722 | 578 | 308.756° | 00:07:11.546 | 00:07:00 |
| Wed 20241225t001806 | 43  | 20.620°  | Sun 20250511t164249 | 177 | 81.971° | Fri 20250926t090732 | 311 | 145.778° | Wed 20260211t013214 | 445 | 223.811° | Sun 20260628t175657 | 579 | 309.357° | 00:08:13.196 | 00:08:00 |
| Thu 20241226t005741 | 44  | 21.102°  | Mon 20250512t172224 | 178 | 82.421° | Sat 20250927t094707 | 312 | 146.297° | Thu 20260212t021150 | 446 | 224.452° | Mon 20260629t183632 | 580 | 309.957° | 00:09:14.845 | 00:09:00 |
| Fri 20241227t013716 | 45  | 21.584°  | Tue 20250513t180159 | 179 | 82.871° | Sun 20250928t102642 | 313 | 146.817° | Fri 20260213t025125 | 447 | 225.092° | Tue 20260630t191608 | 581 | 310.556° | 00:10:16.495 | 00:10:00 |
| Sat 20241228t021652 | 46  | 22.065°  | Wed 20250514t184134 | 180 | 83.321° | Mon 20250929t110617 | 314 | 147.338° | Sat 20260214t033100 | 448 | 225.734° | Wed 20260701t195543 | 582 | 311.155° | Earth        | Mars     |
| Sun 20241229t025627 | 47  | 22.546°  | Thu 20250515t192110 | 181 | 83.772° | Tue 20250930t114553 | 315 | 147.860° | Sun 20260215t040135 | 449 | 226.375° | Thu 20260702t203518 | 583 | 311.752° | 00:00:00.000 | 00:00:00 |
| Mon 20241230t033602 | 48  | 23.026°  | Fri 20250516t200045 | 182 | 84.223° | Wed 20251001t122528 | 316 | 148.383° | Fri 20260216t045011 | 450 | 227.018° | Fri 20260703t211453 | 584 | 312.348° | 00:00:10.275 | 00:00:10 |
| Tue 20241231t041537 | 49  | 23.505°  | Sat 20250517t204020 | 183 | 84.674° | Thu 20251002t130503 | 317 | 148.907° | Tue 20260217t052946 | 451 | 227.661° | Sat 20260704t215429 | 585 | 312.943° | 00:00:20.550 | 00:00:20 |
| Wed 20250101t045513 | 50  | 23.984°  | Sun 20250518t211955 | 184 | 85.125° | Fri 20251003t134438 | 318 | 149.432° | Wed 20260218t060921 |     |          |                     |     |          |              |          |